FCC ID: A3LSMF936U

Power Density Simulation Report

Revision A

June 05, 2022

SAMSUNG ELECTRONICS

1. Simulation methodology for Power Density (PD)

1.1 Simulation tool

1.1.1 Tool description

For the simulation approach to calculating power density (PD) evaluation for mobile phone with mmWave antenna modules, ANSYS Electromagnetics suite version 2021.R2 (HFSS) is used. ANSYS HFSS is one of several commercial tools for 3D full-wave electromagnetic simulation used for antenna and RF structure design of high frequency component. ANSYS Electromagnetics suite version 2021.R2 (HFSS) is implemented based on Finite Element Method (FEM), which operates in the frequency domain.

1.1.2 Mesh and Convergence criteria

To solve the PD analysis using FEM, volume area containing simulated objects should be subdivided into electrically small parts that are called finite elements as the unknown functions. To subdivide system, the adaptive mesh technique in ANSYS Electromagnetics suite version 2021.R2 (HFSS) is used. ANSYS Electromagnetics suite version 2021.R2 (HFSS) starts to refine the initial mesh based on wavelength and calculate the error to iterative process for adaptive mesh refinement. The determination parameter of the number of iteration in ANSYS Electromagnetics suite version 2021.R2 (HFSS) is defined as convergence criteria, delta S, and the iterative adaptive mesh process repeats until the delta S is met. In ANSYS Electromagnetics suite version 2021.R2 (HFSS), the accuracy of converged results depends on the delta S. Figure 1 is an example of final adaptive mesh of the device (cross-section of top view).

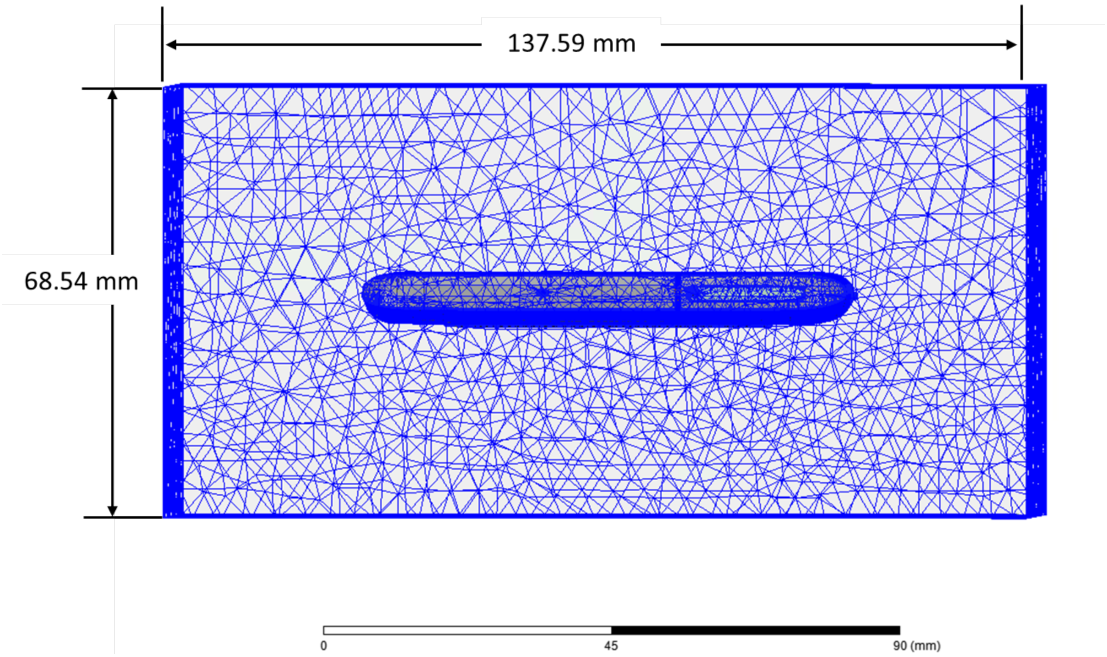


Figure 1 Example of the adaptive mesh technique (Top view)

1.1.3 Power density calculation

After solving 3D full-wave electromagnetic simulation, various kinds of physical quantities can be obtained. To calculate PD evaluation, two physical quantities, an electric field ($\vec{\mathrm{E}}$) and a magnetic field ($\vec{\mathrm{H}}$) are needed. The actual consumption power can be expressed as the real term of the Poynting vector ($\vec{\mathrm{S}}$) from the cross product of $\vec{\mathrm{E}}$ and complex conjugation of $\vec{\mathrm{H}}$ as shown below:

$$\langle\vec{\mathrm{S}}\rangle = \mathrm{Re}\left(\frac{1}{2}\vec{\mathrm{E}} \times \vec{\mathrm{H}}^*\right)$$

$\langle\vec{\mathrm{S}}\rangle$ can be expressed as point power density based on a peak value of each spatial point on mesh grids, and obtained directly from ANSYS Electromagnetics suite version 2020.R1 (HFSS).

From the point power density $\langle\vec{\mathrm{S}}\rangle$, the spatial-averaged power density (PD_{av}) on an evaluated area (A) can be derived as shown below:

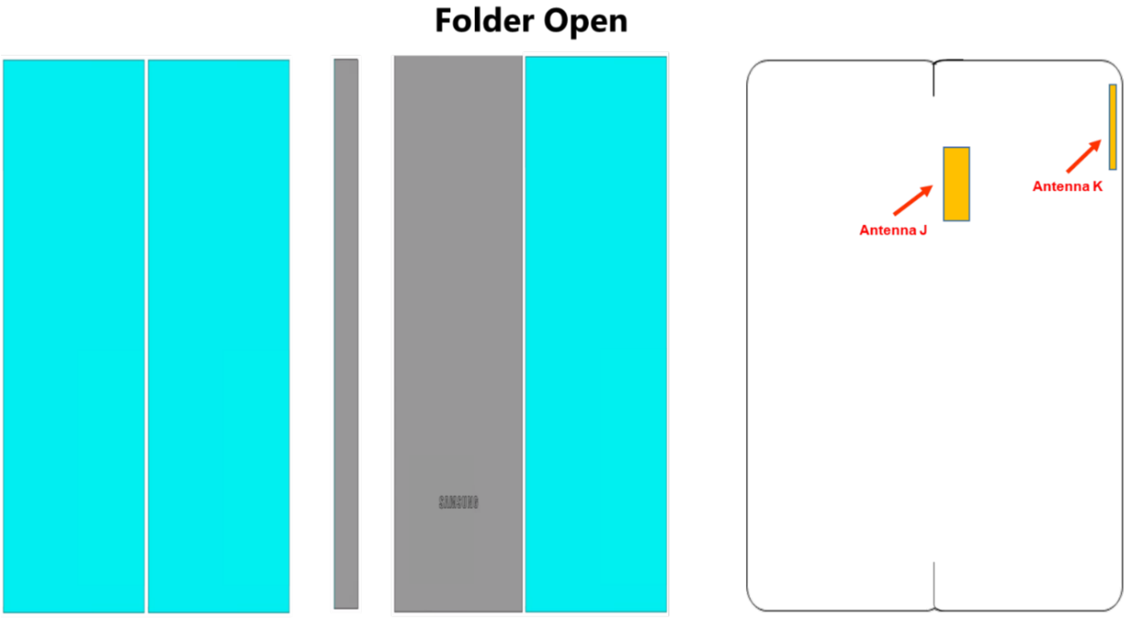
$$\mathrm{PD}_{av} = \frac{1}{A}\int_A \langle\vec{\mathrm{S}}\rangle \cdot ds = \frac{1}{2A_{av}}\iint_{A_{av}} \|Re\{ExH^*\}\|\, dA$$

, where the spatial-averaged power density (PD_{av}) is total power density value considering on x, y and z components of point power density $\langle\vec{\mathrm{S}}\rangle$ and the evaluated area (A) is $4\mathrm{cm}^2$.

1.2 Simulation setup

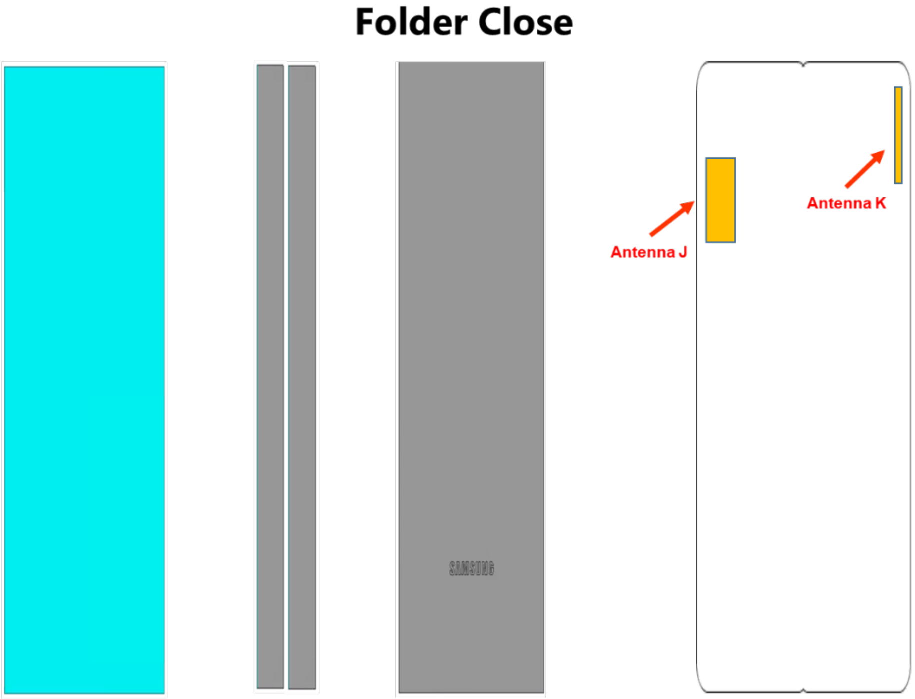
1.2.1 3D modeling

Figure 2 shows the simulation model which is mounted two mmWave antenna modules. The simulation modeling includes most of the entire structure of device itself such as PCB, metal frame, battery, cables, and legacy antennas as well as mmWave antenna modules called as Ant K and Ant J. For a folder open status (Fig. 2-1) and folder close status (Fig. 2-2), Ant K is placed on the right side and antennas are facing the right side, and Ant J is placed on the back side and antennas are facing the back side of the device.


Folder Open
SAMSUNG
Antenna J
Antenna K

(a) Front (b) Side (c) Back (d) Location of mmWave modules (Front)

Figure 2-1. Simulation model which is mounted two mmWave antenna modules (Folder Open Status)


Folder Close
SAMSUNG
Antenna J
Antenna K

(e) Front (f) Side (g) Back (h) Location of mmWave modules (Front)

Figure 3-2. Simulation model which is mounted two mmWave antenna modules (Folder Closed Status)

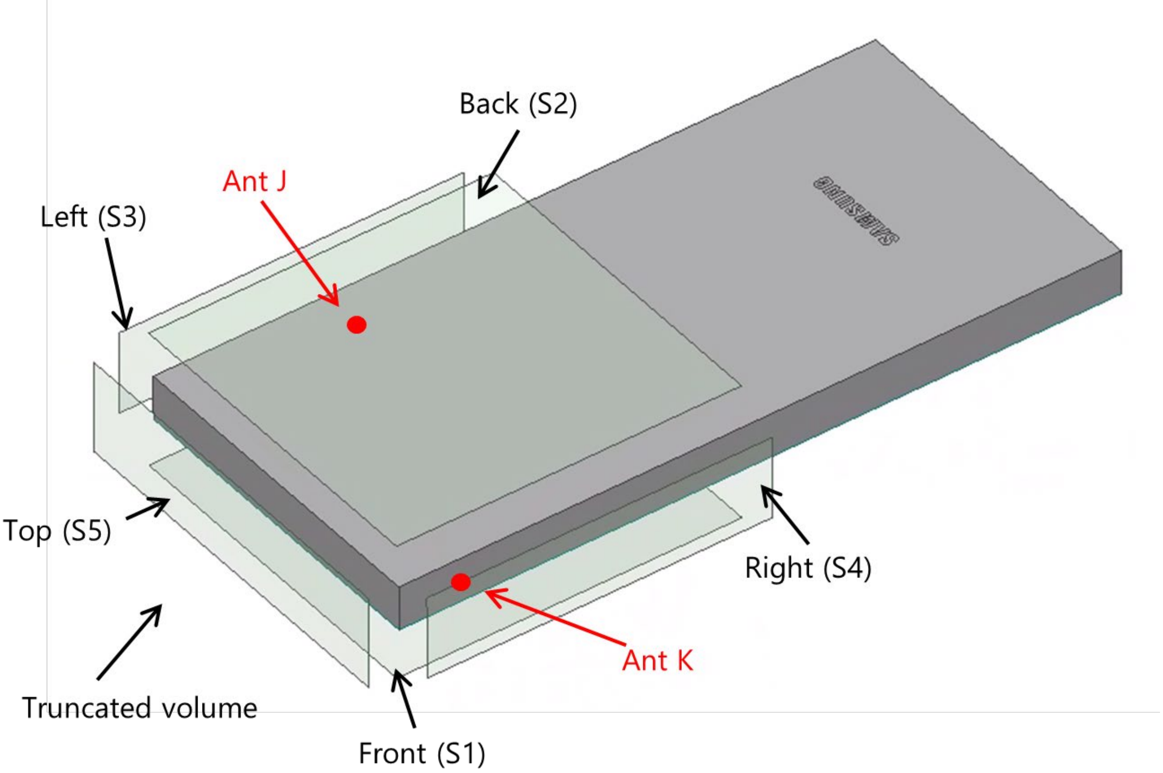
1.2.2 PD evaluation planes

Table 1 shows the PD evaluation planes for each mmWave antenna module and Figure 3 shows the PD evaluation planes and whole area of the simulation model to find worst case of beamforming cases.

Please note that the “right” and “left” edge of mentioned in this report are defined from the perspective of looking at the device from the front side.

Table 1. PD evaluation planes

Module	Front	Back	Left From Front View	Right From Front View	Top	Bottom
	S1	S2	S3	S4	S5	S6
Ant J	O	O	O	O	O	O
Ant K	O	O	O	O	O	O


Back (S2)
Ant J
Left (S3)
SAMSUNG
Top (S5)
Right (S4)
Ant K
Truncated volume
Front (S1)

Antenna J and Antenna K

Figure 4. PD evaluation planes

1.2.3 Boundary condition

To simulate electromagnetic tool based on FEM, the boundary condition allows electromagnetic waves to be electrically open at the boundary and radiated far away without reflection. ANSYS Electromagnetics suite version 2021.R2 (HFSS) can support the absorbing boundary condition (ABC) for radiation boundary and make normally a quarter wave length from the radiating structure. In this report, to cover all beamforming cases of mmWave antenna modules, 40 mm spacing from each surfaces of the device were used.

1.2.4 Source excitation condition

The number of antenna ports of ANT K and ANT J for source excitation are the same. The antenna port of ANT K and J is divided into 10 ports for n261 1 x 5 patch array antennas, 10 ports for n260 1 x 5 patch array antennas. In the 10 ports included in each patch antenna, 5 ports are divided into vertical polarization feeding, and the other 5 ports are divided into horizontal polarization feeding.

Figure 4 shows the ANT K module structure and surrounding structure. The ANT K module is encrypted in the ANSYS Electromagnetics suite (HFSS) and can only check the feeding position.

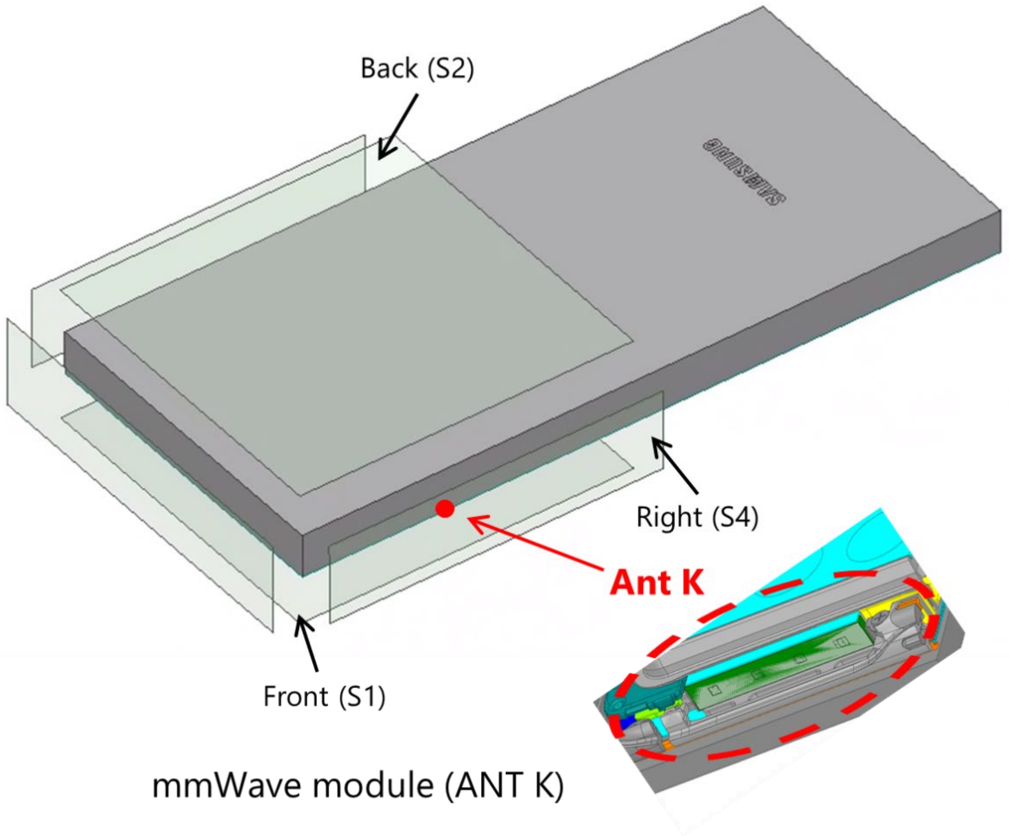
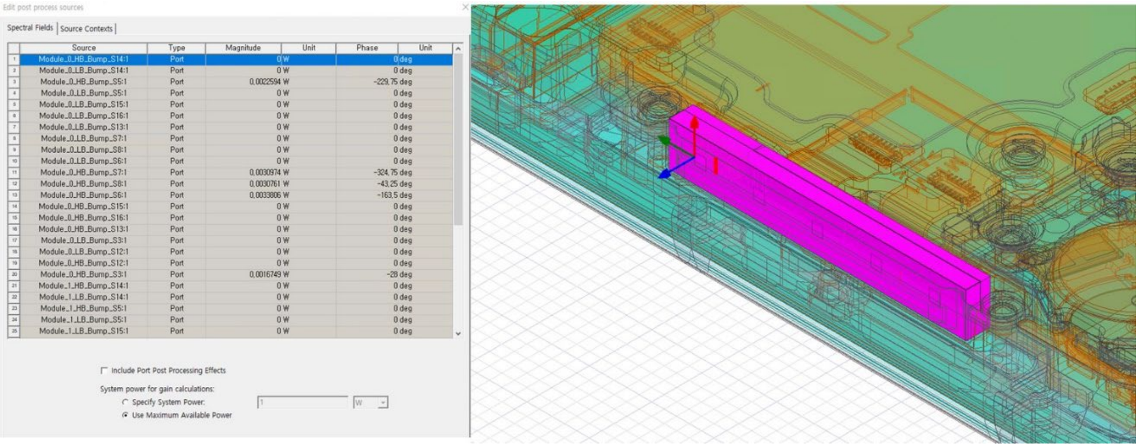


Figure 5. mmWave module (ANT K)

After finishing 3D full wave electromagnetic simulation of modeling structure, the magnitude and phase information can be loaded for each port by using “Edit Sources” function in ANSYS Electromagnetics suite (HFSS). Figure 5 shows an example of antenna port excitations.



	Source	Type	Magnitude	Unit	Phase	Unit
1	Module_0_HB_Bump_S14:1	Port	0	W	0	deg
2	Module_0_LB_Bump_S14:1	Port	0	W	0	deg
3	Module_0_HB_Bump_S5:1	Port	0,0022594	W	-229,75	deg
4	Module_0_LB_Bump_S5:1	Port	0	W	0	deg
5	Module_0_LB_Bump_S15:1	Port	0	W	0	deg
6	Module_0_LB_Bump_S16:1	Port	0	W	0	deg
7	Module_0_LB_Bump_S13:1	Port	0	W	0	deg
8	Module_0_LB_Bump_S7:1	Port	0	W	0	deg
9	Module_0_LB_Bump_S8:1	Port	0	W	0	deg
10	Module_0_LB_Bump_S6:1	Port	0	W	0	deg
11	Module_0_HB_Bump_S7:1	Port	0,0030974	W	-324,75	deg
12	Module_0_HB_Bump_S8:1	Port	0,0030761	W	-43,25	deg
13	Module_0_HB_Bump_S6:1	Port	0,0033806	W	-163,5	deg
14	Module_0_HB_Bump_S15:1	Port	0	W	0	deg
15	Module_0_HB_Bump_S16:1	Port	0	W	0	deg
16	Module_0_HB_Bump_S13:1	Port	0	W	0	deg
17	Module_0_LB_Bump_S3:1	Port	0	W	0	deg
18	Module_0_LB_Bump_S12:1	Port	0	W	0	deg
19	Module_0_HB_Bump_S12:1	Port	0	W	0	deg
20	Module_0_HB_Bump_S3:1	Port	0,0016749	W	-28	deg
21	Module_1_HB_Bump_S14:1	Port	0	W	0	deg
22	Module_1_LB_Bump_S14:1	Port	0	W	0	deg
23	Module_1_HB_Bump_S5:1	Port	0	W	0	deg
24	Module_1_LB_Bump_S5:1	Port	0	W	0	deg
25	Module_1_LB_Bump_S15:1	Port	0	W	0	deg

☐ Include Port Post Processing Effects

System power for gain calculations:
○ Specify System Power: 1 W
● Use Maximum Available Power

Figure 6. An example of port excitation (ANT K)

Since ANSYS Electromagnetics suite (HFSS) uses FEM solver based on frequency domain analysis method, the input source for the port excitation applies sinusoidal waveform for each frequency.

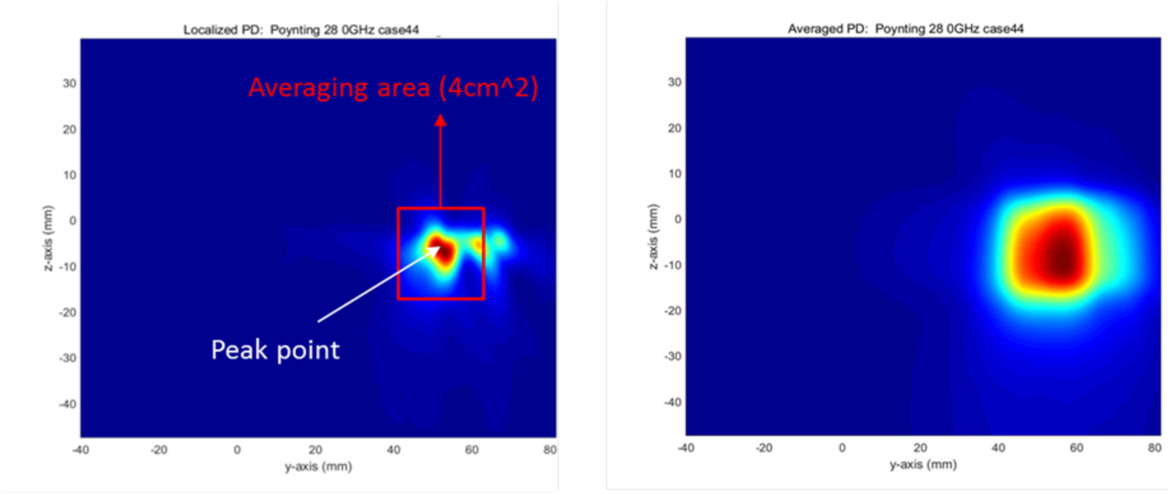
1.2.5 Condition of simulation completion

The simulation completion condition of ANSYS Electromagnetics suite (HFSS) is defined as delta S. The ANSYS Electromagnetics suite (HFSS) calculates the S-parameter for the mesh conditions of each step and determines whether to proceed with the operation of the next step by comparing the difference between the S-parameters in the previous step. A difference between the previous step and the current step of S-parameter is expressed as delta S, and the delta S generally sets 0.02. The simulation result of this report is the result of setting delta S to 0.02.

2. Simulation verification

2.1 Spatial-averaged power density

As mentioned in the previous chapter, the Poynting vector ($\vec{S}$) can be obtained through cross product of an electric field ($\vec{E}$) and complex conjugate of a magnetic field ($\vec{H}$). The real term of the Poynting vector can be described as the point power density or peak power density. Using the point power density, the spatial-averaged power density can be obtained by the integral of 4 cm^2 at 2.5 mm intervals of the point power density result. Figure 6 shows examples of the distribution plot of point power density and the averaged power density.



(a) Point power density (b) Averaged power density

Figure 7. Power density distribution (Example)

2.2 Comparison between simulation and measurement

In this section, the simulated-power density distributions and measured-power density distributions are compared to each mmWave antenna.

Based on comparison of power density distributions, simulated power density and measured power density have a good correlation. The discrepancy in amplitude between simulated 4cm^2 averaged power density and measured 4cm^2 averaged power density is considered as housing influence and used in determining input power limit for each beam for RF exposure compliance.

The input powers per each active port are listed below for both Simulation and Measurement validation and power density characterization. For Simulation, these values were entered directly into HFSS model. For measurement, FTM S/W was used to input these values for each active port also.

Mode/Band	Antenna	Input Power (dBm) SISO	Input Power (dBm) MIMO
5G NR n261	J Patch	6.0	6.0
	K Patch	6.0	6.0
5G NR n260	J Patch	6.0	6.0
	K Patch	6.0	6.0
5G NR n258	J Patch	6.0	6.0
	K Patch	6.0	6.0

* The below simulation and measurement result were performed at 2mm evaluation distance and 28GHz / 38.5GHz / 24.8 GHz. The *input.power.limit* was determined based on below results in RF Exposure Part 0 Report.

					4cm^2 avg.PD (mW/cm2)	
Band	**Beam ID**	**Antenna**	**Surface**	**Channel**	**Meas.**	**Sim.**
n261	26	J (patch)	Back (S2)	Mid	1.03	2.086
	162		Back (S2)	Mid	1.16	1.870
	38	K (patch)	Back (S2)	Mid	0.38	0.786
	33		Right (S4)	Mid	0.582	1.195
	40		Front (S1)	Mid	0.63	0.849
	169		Back (S2)	Mid	0.748	1.695
	167		Right (S4)	Mid	0.659	1.101
n260	28	J (patch)	Back (S2)	Mid	0.387	1.273
	165		Back (S2)	Mid	0.35	1.040
	31	K (patch)	Back (S2)	Mid	0.573	0.788
	33		Right (S4)	Mid	0.295	1.248
	166		Back (S2)	Mid	0.287	0.807
			Right (S4)	Mid	0.7	1.242
n258	26	J (patch)	Back (S2)	Mid	1.07	1.551
	152		Back (S2)	Mid	0.941	1.629
	41	K (patch)	Back (S2)	Mid	0.381	0.607
			Right (S4)	Mid	0.814	1.280
	32		Front (S1)	Mid	0.59	0.716
	166		Back (S2)	Mid	1.45	1.956
			Right (S4)	Mid	0.941	1.602

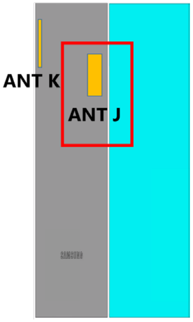
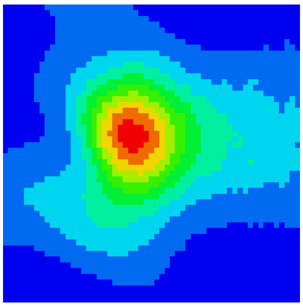
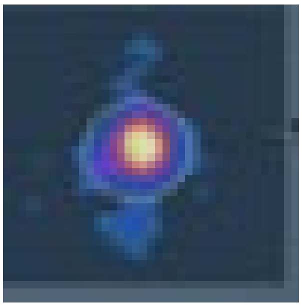
(a) Measured PD for Folder Open Status

					4cm^2 avg.PD (mW/cm2)	
Band	**Beam ID**	**Antenna**	**Surface**	**Channel**	**Meas.**	**Sim.**
n261	26	J (patch)	Back (S2)	Mid	1.02	1.994
			Left (S3)	Mid	0.59	1.408
	156		Back (S2)	Mid	0.984	1.852
	38	K (patch)	Back (S2)	Mid	0.366	0.703
	33		Right (S4)	Mid	0.515	1.128
	169		Back (S2)	Mid	0.673	1.640
	167		Right (S4)	Mid	0.703	1.110
n260	28	J (patch)	Back (S2)	Mid	0.361	1.211
			Left (S3)	Mid	0.269	0.687
	165		Back (S2)	Mid	0.363	1.064
	31	K (patch)	Back (S2)	Mid	0.561	0.792
	33		Right (S4)	Mid	0.314	1.295
	160		Back (S2)	Mid	0.239	0.822
	166		Right (S4)	Mid	0.675	1.246
n258	35	J (patch)	Back (S2)	Mid	1.05	1.496
	26		Left (S3)	Mid	0.481	1.100
	152		Back (S2)	Mid	0.945	1.614
	41	K (patch)	Back (S2)	Mid	0.37	0.565
			Right (S4)	Mid	0.801	1.176
	166		Back (S2)	Mid	1.4	1.910
			Right (S4)	Mid	0.92	1.533

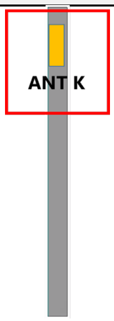
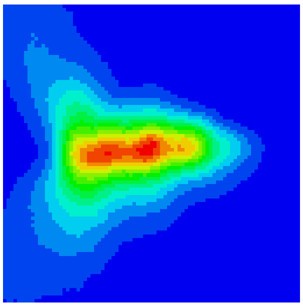
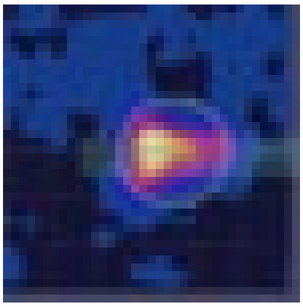
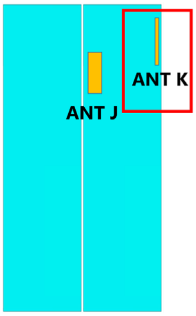
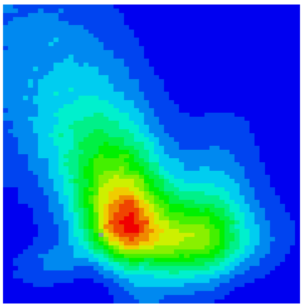
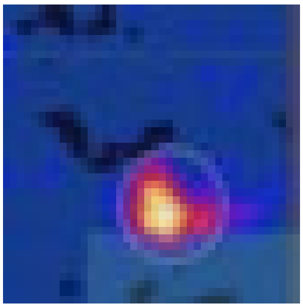
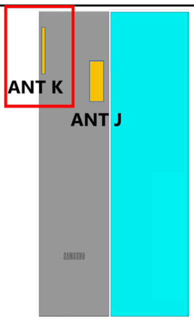
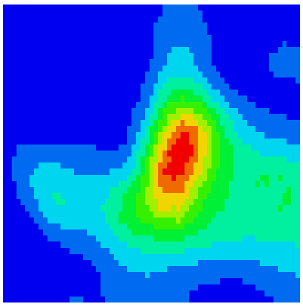
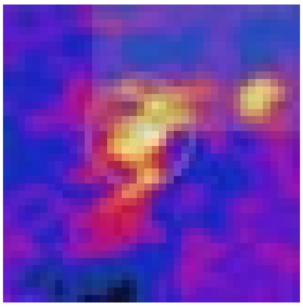
(b) Measured PD for Folder Closed Status

[Folder Open Status]

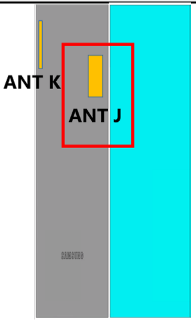
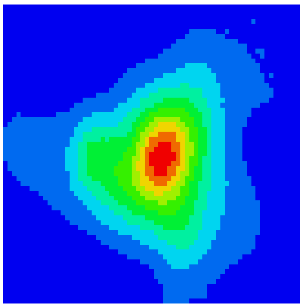
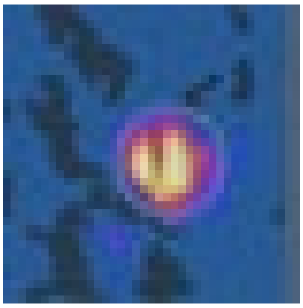
- Table 2-1, n258 ANT J-Patch: Mid Channel, Beam ID 26 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
26	S2 (Rear)			

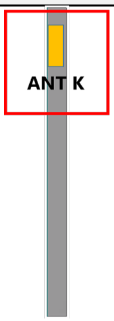
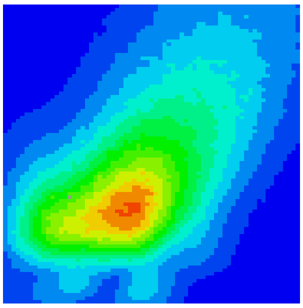
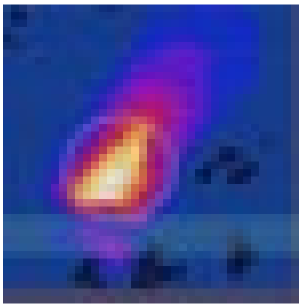
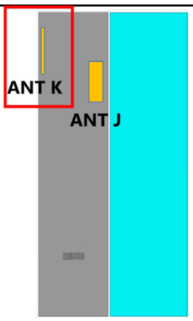
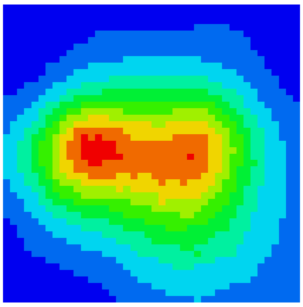
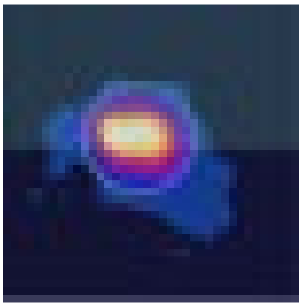
- Table 2-2, n258 ANT K-Patch: Mid Channel, Beam ID 32 and 41 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
41	S4 (Right)			
32	S1 (Front)			
41	S2 (Rear)			

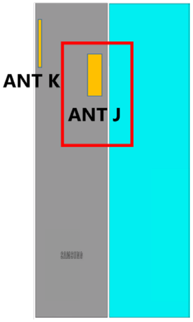
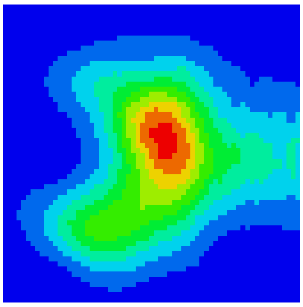
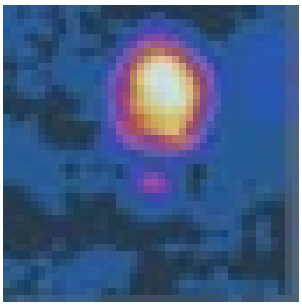
- Table 2-3, n258 ANT J-Patch: Mid Channel, Beam ID 152 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
152	S2 (Rear)			

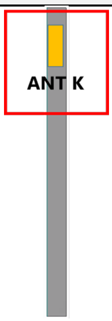
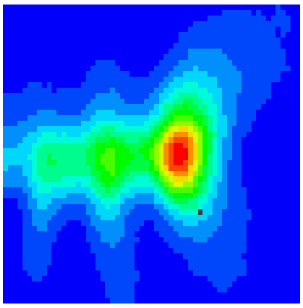
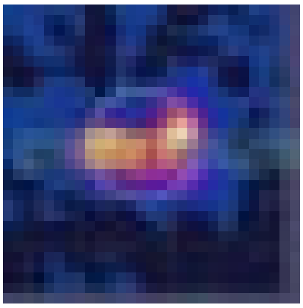
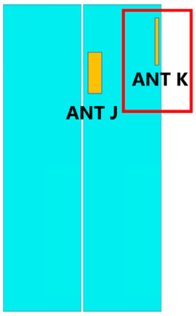
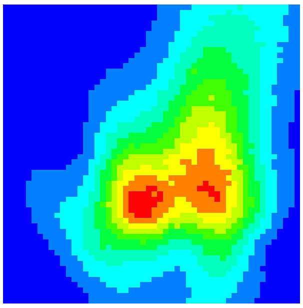
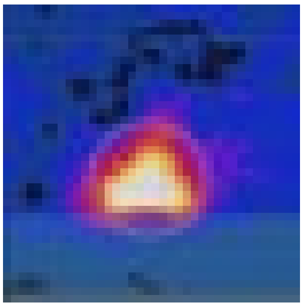
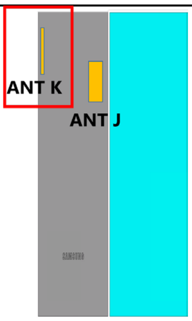
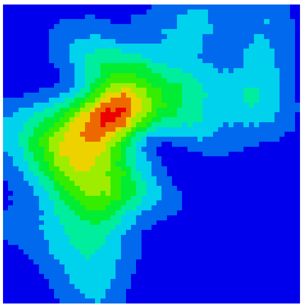
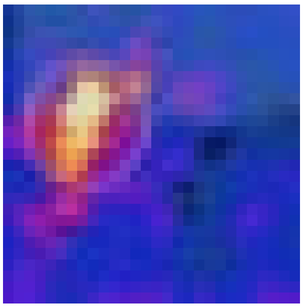
- Table 2-4, n258 ANT K-Patch: Mid Channel, Beam ID 166 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
166	S4 (Right)			
	S2 (Rear)			

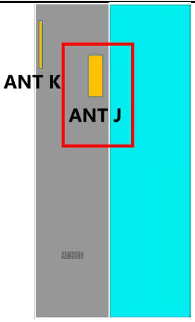
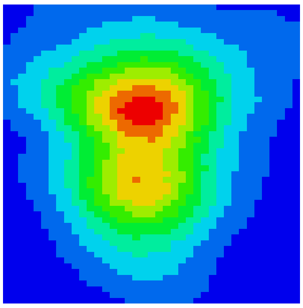
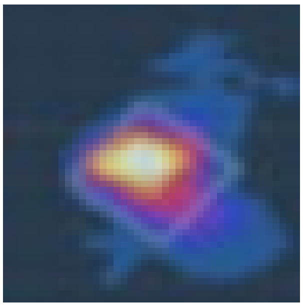
- Table 2-5, n261 ANT J-Patch: Mid Channel, Beam ID 26 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
26	S2 (Rear)			

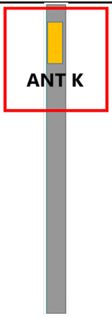
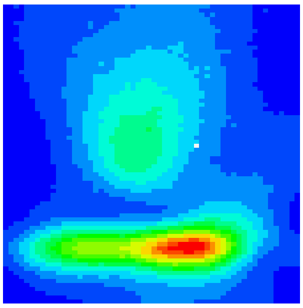
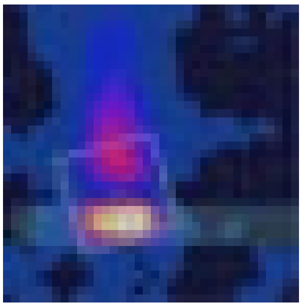
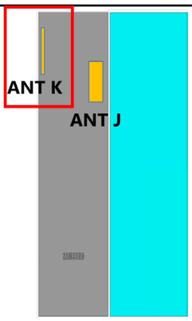
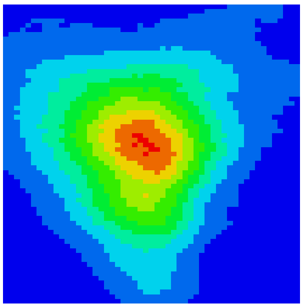
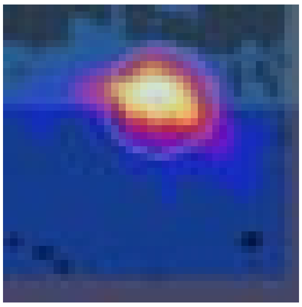
- Table 2-6, n261 ANT K-Patch: Mid Channel, Beam ID 33, 38 and 40 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
33	S4 (Right)			
40	S1 (Front)			
38	S2 (Rear)			

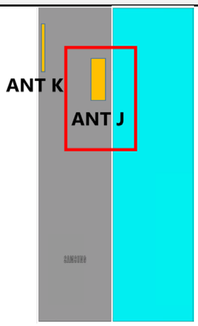
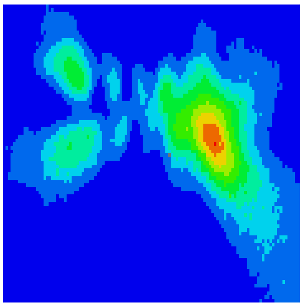
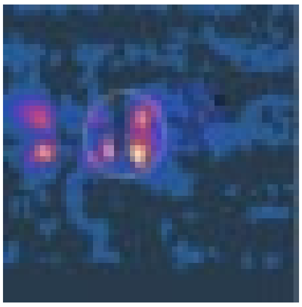
- Table 2-7, n261 ANT J-Patch: Mid Channel, Beam ID 162 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
162	S2 (Rear)			

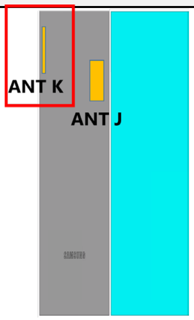
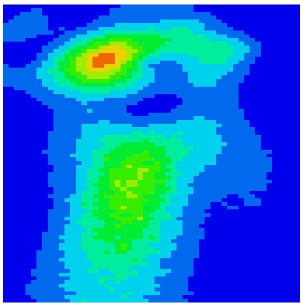
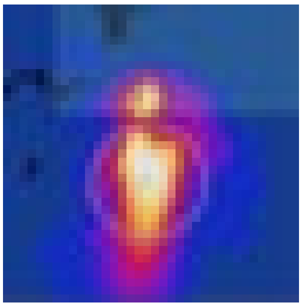
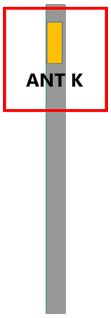
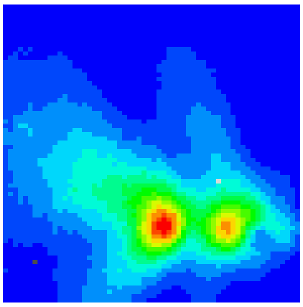
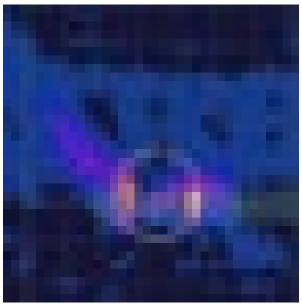
- Table 2-8, , n261 ANT K-Patch: Mid Channel, Beam ID 167 and 169 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
167	S4 (Right)			
169	S2 (Rear)			

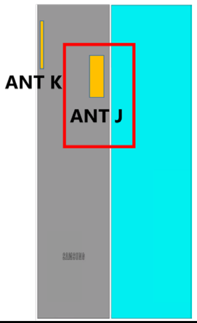
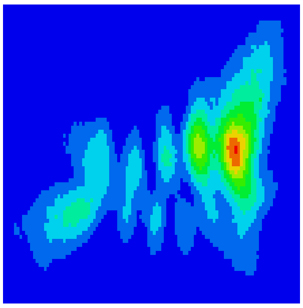
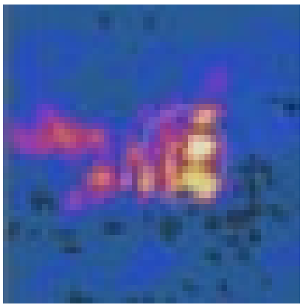
- Table 2-9, n260 ANT J-Patch: Mid Channel, Beam ID 28 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
28	S2 (Rear)			

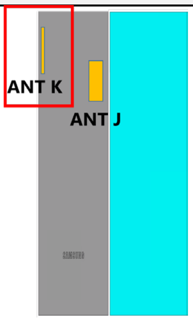
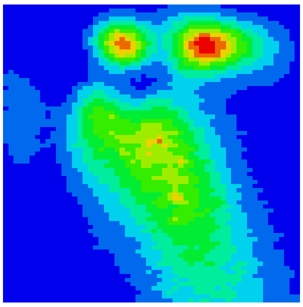
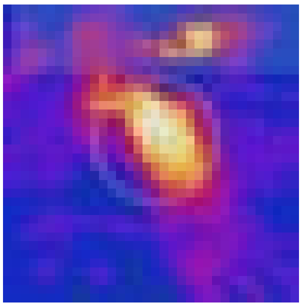
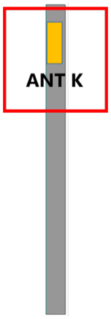
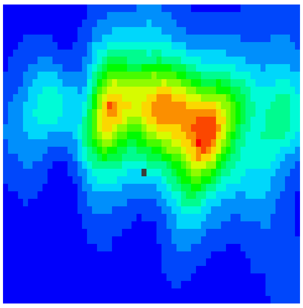
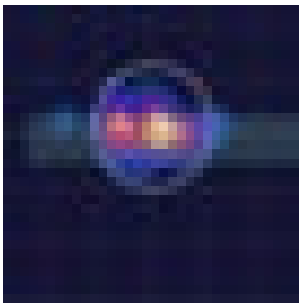
- Table 2-10, n260 ANT K-Patch: Mid Channel, Beam ID 31 and 33 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
31	S2 (Rear)			
33	S4 (Right)			

- Table 2-11, n260 ANT J-Patch: Mid Channel, Beam ID 165 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
165	S2 (Rear)			

- Table 2-12, n260 ANT K-Patch: Mid Channel, Beam ID 166 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
166	S2 (Rear)			
	S4 (Right)			

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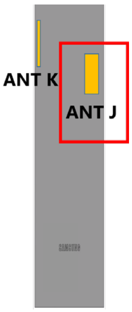
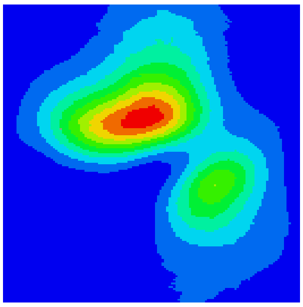
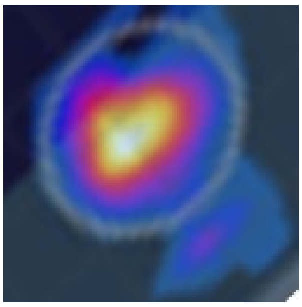
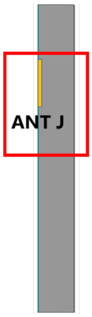
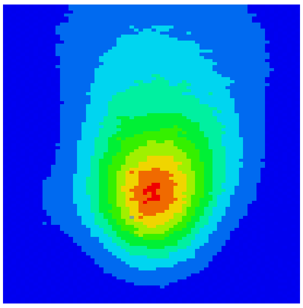
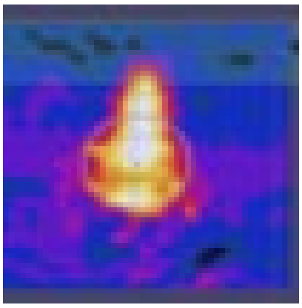
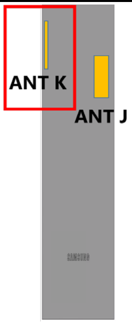
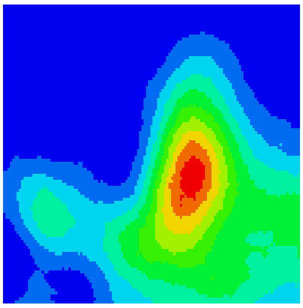
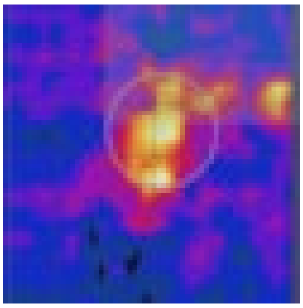
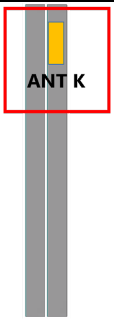
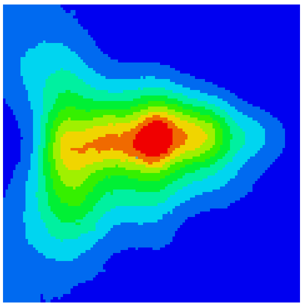
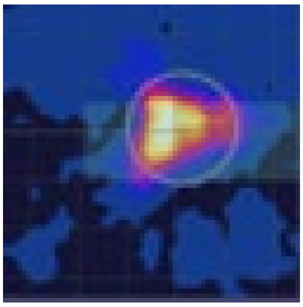
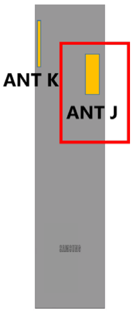
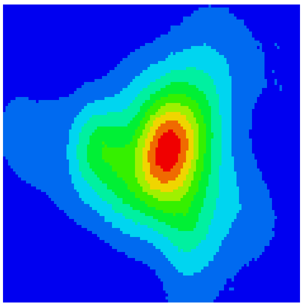
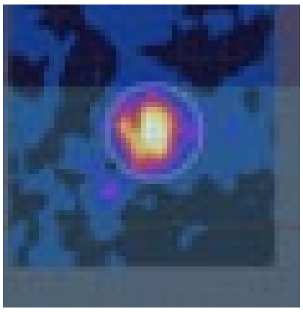
- Table 2-13, n258 ANT J-Patch: Mid Channel, Beam ID 35 and 26 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
35	S2 (Rear)			
26	S3 (Left)			

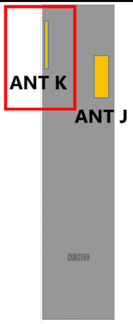
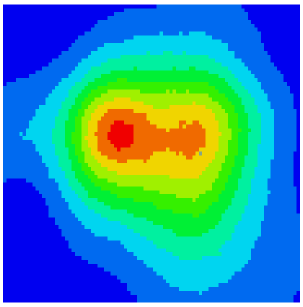
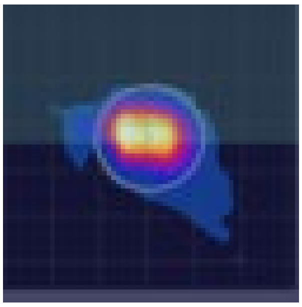
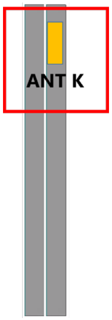
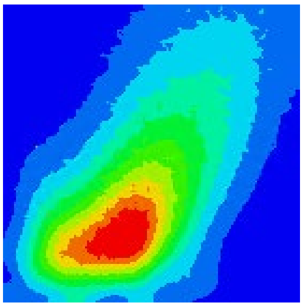
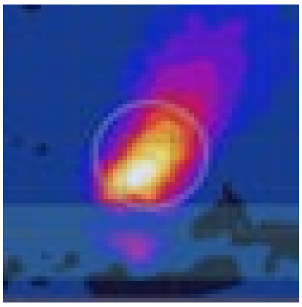
- Table 2-14, n258 ANT K-Patch: Mid Channel, Beam ID 41 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
41	S2 (Rear)			
	S4 (Right)			

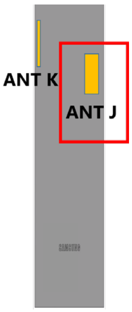
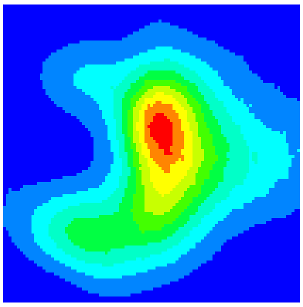
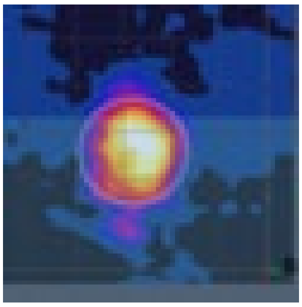
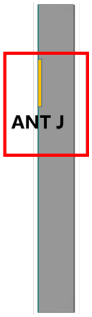
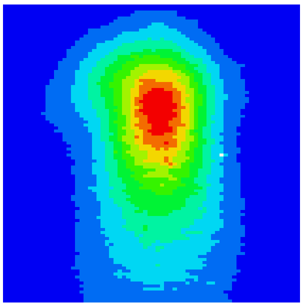
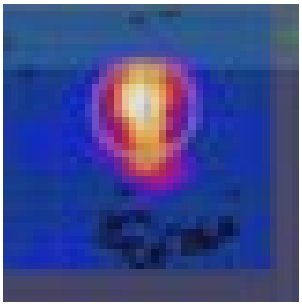
- Table 2-15, n258 ANT J-Patch: Mid Channel, Beam ID 152 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
152	S2 (Rear)			

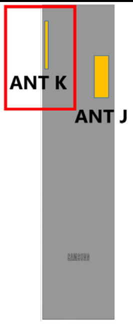
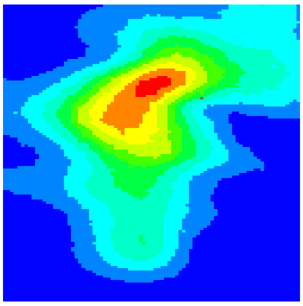
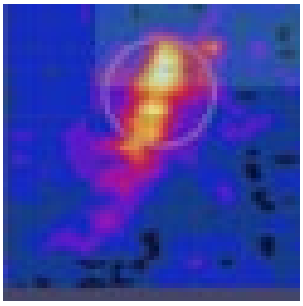
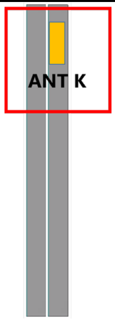
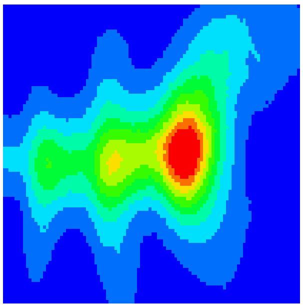
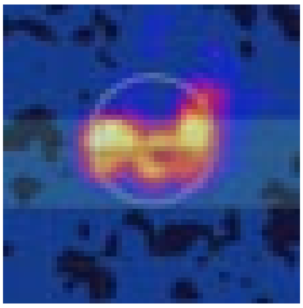
- Table 2-16, n258 ANT K-Patch: Mid Channel, Beam ID 166 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
166	S2 (Rear)			
	S4 (Right)			

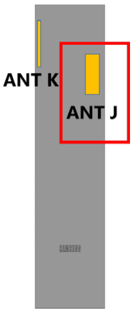
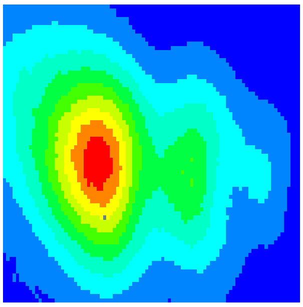
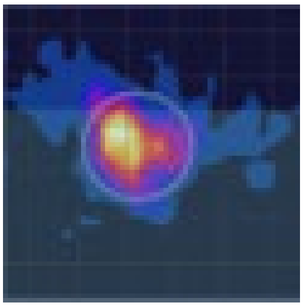
- Table 2-17, n261. ANT J-Patch: Mid Channel, Beam ID 26 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
26	S2 (Rear)			
	S3 (Left)			

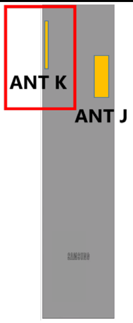
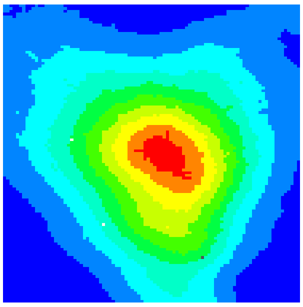
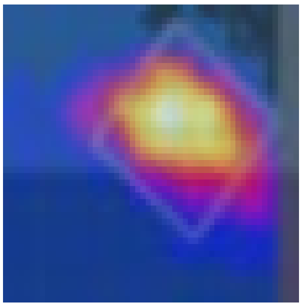
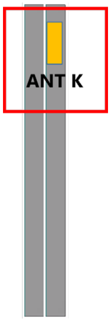
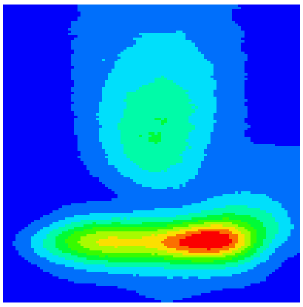
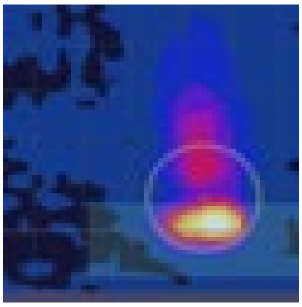
- Table 2-18, n261 ANT K-Patch: Mid Channel, Beam ID 33 and 38 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
38	S2 (Rear)			
33	S4 (Right)			

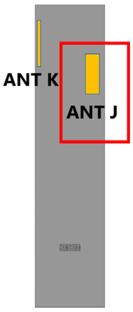
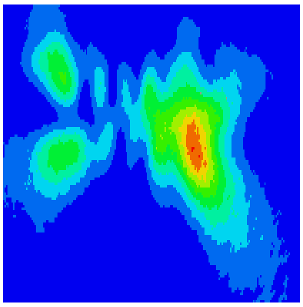
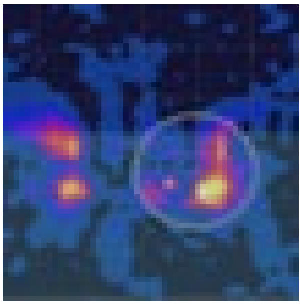
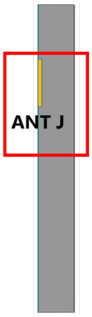
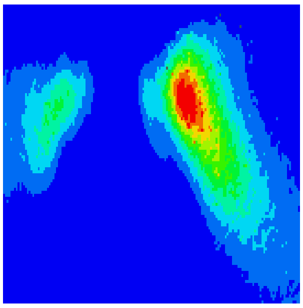
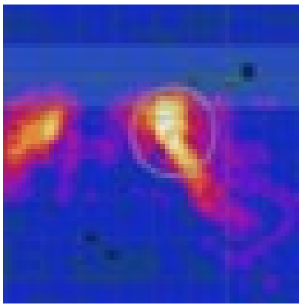
- Table 2-19, n261 ANT J-Patch: Mid Channel, Beam ID 156 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
156	S2 (Rear)			

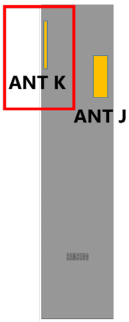
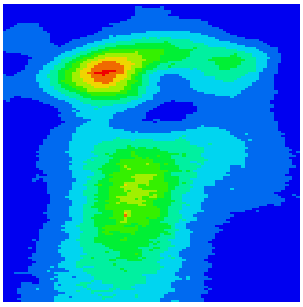
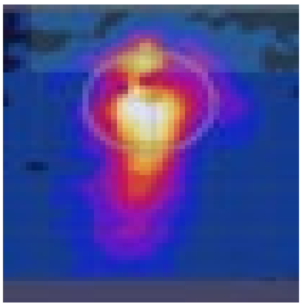
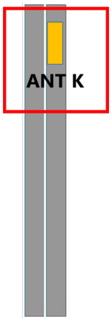
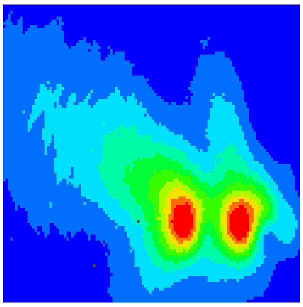
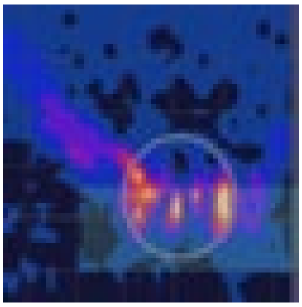
- Table 2-20, n261 ANT K-Patch: Mid Channel, Beam ID 167 and 169 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
169	S2 (Rear)			
167	S4 (Right)			

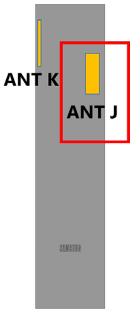
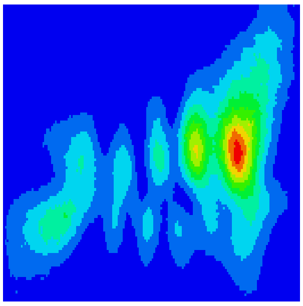
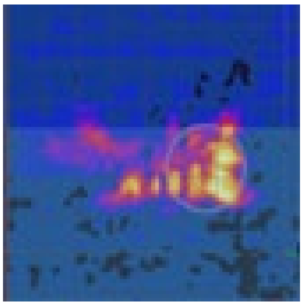
- Table 2-21, n260 ANT J-Patch: Mid Channel, Beam ID 28 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
28	S2 (Rear)	 		
	S3 (Left)	 		

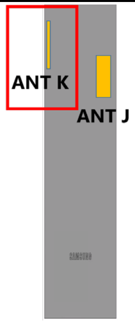
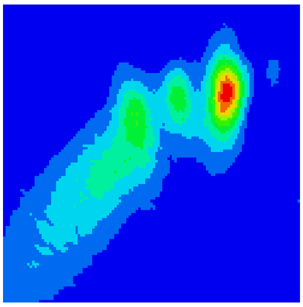
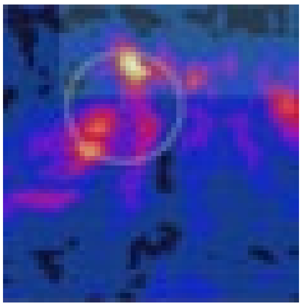
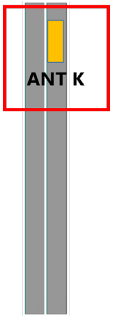
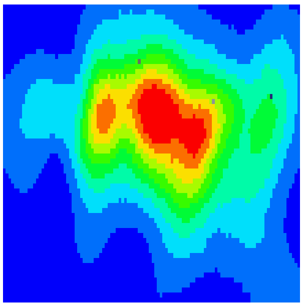
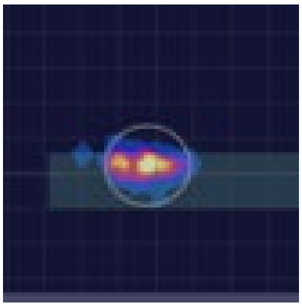
- Table 2-22, n260 ANT K-Patch: Mid Channel, Beam ID 31 and 33 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
31	S2 (Rear)	 		
33	S4 (Right)	 		

- Table 2-23, n260 ANT J-Patch: Mid Channel, Beam ID 165 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
165	S2 (Rear)			

- Table 2-24, n260 ANT K-Patch: Mid Channel, Beam ID 160 and 166 for selected surfaces

Beam ID	Surface	View	Simulated PD	Measured PD
160	S2 (Rear)			
166	S4 (Right)			

3 Simulation results

This section shows the PD simulation results of Ant J and Ant K at 24GHz, 28GHz and 39GHz for each evaluation plane specified in Table 1 at two separation distances of 2mm and 10mm for open condition and for closed conditions. The ratio of PD exposure from front surface to the worst surface at 2mm, and the ratio of PD exposure from 2mm to 10mm (open and closed) evaluation distance for each beam are also reported in this section to support RF exposure analysis for simultaneous transmission scenarios performed in the Part 1 Near Field PD report.

The relative phase between beam pairs is not controlled in the chipset design. Therefore, the relative phase between each beam pair was considered mathematically to identify the worst case conditions. The below MIMO results represent the highest reported MIMO simulation results after sweeping across the relative phase between beams a 5° step interval from 0° to 360°,

The worst-case simulated PD determined from the tables in this section were used for conservativeness in *input.power.limit* determination in RF Exposure Part 0 Report.

3.1 PD for Low/Mid/High Channel at 24GHz / 28GHz / 39GHz

3.1.1 Ant J– Patch Antenna

Table 3 & Table 4 & Table 5 show the PD simulation evaluation of Ant J patch antenna at 24GHz / 28GHz / 39GHz for the corresponding evaluation planes specified in Table 1.

Table 3. PD of Ant J – patch antenna (24GHz – n258)

[Folder Open Status]

- J–patch Low CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							12.2%	13.4%	13.0%	12.9%	2.3%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						68.4%	9.5%	11.3%	8.4%	10.8%	1.6%	68.4%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.02	0.01	0.01	0.00	0.00	0.14		10.6%	6.4%	9.2%	0.7%	1.4%	100.0%	0.01	0.01	0.01	0.00	0.00	0.06	39.7%	8.5%	5.7%	7.8%	0.7%	0.7%	39.7%
2			2		1	0.01	0.01	0.01	0.00	0.00	0.16		5.1%	5.1%	5.1%	0.6%	0.6%	100.0%	0.01	0.01	0.01	0.00	0.00	0.07	44.6%	4.5%	3.8%	3.8%	0.6%	0.6%	44.6%
3			4		1	0.01	0.01	0.01	0.00	0.00	0.18		3.3%	4.3%	6.0%	2.2%	1.1%	100.0%	0.00	0.01	0.01	0.00	0.00	0.08	42.4%	2.2%	3.8%	4.3%	1.6%	0.5%	42.4%
4			6		1	0.00	0.01	0.01	0.00	0.00	0.18		2.2%	5.0%	2.8%	2.2%	0.6%	100.0%	0.00	0.01	0.01	0.00	0.00	0.07	36.3%	1.7%	3.9%	2.8%	1.7%	0.6%	36.3%
5			8		1	0.01	0.01	0.00	0.00	0.00	0.19		3.2%	3.2%	1.6%	1.6%	0.5%	100.0%	0.01	0.01	0.00	0.00	0.00	0.08	42.8%	2.7%	2.7%	1.1%	1.1%	0.0%	42.8%
6			10		2	0.01	0.02	0.03	0.00	0.00	0.41		2.0%	5.6%	7.1%	0.7%	0.7%	100.0%	0.01	0.02	0.02	0.00	0.00	0.18	43.8%	1.5%	4.6%	4.9%	0.5%	0.5%	43.8%
7			11		2	0.02	0.03	0.01	0.00	0.00	0.43		4.7%	7.2%	2.6%	0.7%	0.7%	100.0%	0.02	0.03	0.01	0.00	0.00	0.21	49.2%	3.7%	6.1%	2.3%	0.5%	0.5%	49.2%
8			12		2	0.01	0.01	0.01	0.01	0.00	0.35		3.4%	2.5%	3.7%	2.3%	0.8%	100.0%	0.01	0.01	0.01	0.01	0.00	0.18	49.4%	2.0%	2.0%	2.8%	1.7%	0.6%	49.4%
9			13		2	0.04	0.03	0.01	0.00	0.00	0.33		12.2%	8.8%	2.7%	0.6%	0.9%	100.0%	0.03	0.02	0.01	0.00	0.00	0.13	38.7%	9.5%	7.3%	1.5%	0.6%	0.6%	38.7%
10			18		2	0.03	0.02	0.02	0.00	0.00	0.43		6.5%	5.6%	5.4%	0.7%	0.9%	100.0%	0.02	0.02	0.02	0.00	0.00	0.17	40.0%	5.1%	4.7%	4.2%	0.7%	0.5%	40.0%
11			19		2	0.01	0.03	0.00	0.01	0.00	0.47		2.8%	6.0%	0.9%	1.5%	0.9%	100.0%	0.01	0.02	0.00	0.01	0.00	0.21	44.8%	1.9%	5.1%	0.6%	1.3%	0.4%	44.8%
12			20		2	0.01	0.02	0.00	0.01	0.00	0.42		2.6%	3.8%	1.0%	1.7%	0.5%	100.0%	0.01	0.01	0.00	0.01	0.00	0.17	39.9%	2.1%	3.1%	0.7%	1.4%	0.2%	39.9%
13			24		5	0.02	0.04	0.07	0.01	0.01	1.00		1.8%	4.2%	7.0%	0.8%	0.8%	100.0%	0.01	0.03	0.06	0.01	0.01	0.54	54.5%	1.4%	3.4%	5.9%	0.6%	0.5%	54.5%
14			25		5	0.05	0.09	0.04	0.00	0.01	1.01		4.8%	8.5%	3.8%	0.4%	1.0%	100.0%	0.04	0.07	0.03	0.00	0.01	0.56	55.7%	3.7%	7.2%	3.4%	0.4%	0.6%	55.7%
15			26		5	0.08	0.13	0.01	0.01	0.01	0.95		8.3%	13.4%	1.3%	0.8%	1.3%	100.0%	0.06	0.11	0.01	0.01	0.01	0.48	50.4%	6.3%	11.3%	1.0%	0.7%	0.5%	50.4%
16			27		5	0.03	0.05	0.01	0.01	0.01	0.93		3.5%	5.0%	1.1%	1.2%	0.6%	100.0%	0.03	0.04	0.01	0.01	0.00	0.55	58.8%	2.9%	4.2%	0.6%	1.0%	0.4%	58.8%
17			28		5	0.04	0.03	0.01	0.03	0.01	1.02		3.7%	3.1%	1.4%	2.4%	0.6%	100.0%	0.03	0.03	0.01	0.02	0.01	0.44	42.5%	3.1%	2.5%	0.8%	2.2%	0.5%	42.5%
18			34		5	0.05	0.07	0.06	0.01	0.01	1.04		4.5%	6.3%	5.6%	0.7%	0.9%	100.0%	0.04	0.06	0.06	0.01	0.01	0.58	55.9%	3.5%	5.3%	5.3%	0.6%	0.6%	55.9%
19			35		5	0.09	0.15	0.03	0.01	0.02	1.14		7.9%	12.7%	2.4%	0.4%	1.3%	100.0%	0.08	0.12	0.02	0.00	0.01	0.57	49.7%	6.6%	10.5%	1.9%	0.4%	0.5%	49.7%
20			36		5	0.04	0.06	0.01	0.01	0.01	0.81		5.4%	7.4%	0.9%	1.5%	0.9%	100.0%	0.03	0.05	0.00	0.01	0.00	0.39	48.3%	3.9%	6.2%	0.5%	1.1%	0.4%	48.3%
21			37		5	0.04	0.04	0.01	0.02	0.01	1.04		3.8%	3.5%	1.3%	2.3%	0.6%	100.0%	0.03	0.03	0.01	0.02	0.01	0.47	45.4%	3.1%	2.7%	0.7%	2.0%	0.5%	45.4%
22			128		1	0.01	0.00	0.02	0.01	0.00	0.24		4.2%	1.3%	7.9%	3.3%	1.3%	100.0%	0.01	0.00	0.01	0.01	0.00	0.12	48.3%	3.8%	0.8%	5.4%	2.9%	0.4%	48.3%
23			130		1	0.01	0.00	0.02	0.01	0.00	0.22		2.7%	0.9%	8.1%	2.2%	1.8%	100.0%	0.01	0.00	0.01	0.00	0.00	0.10	46.2%	2.7%	0.9%	5.8%	1.8%	0.9%	46.2%
24			132		1	0.01	0.00	0.01	0.01	0.00	0.25		2.8%	0.8%	5.6%	2.4%	1.2%	100.0%	0.01	0.00	0.01	0.01	0.00	0.12	48.8%	2.4%	0.8%	4.4%	2.0%	0.8%	48.8%
25			134		1	0.01	0.00	0.01	0.01	0.00	0.24		3.0%	0.8%	5.9%	3.0%	1.3%	100.0%	0.01	0.00	0.01	0.01	0.00	0.12	52.5%	2.1%	0.8%	4.2%	2.1%	0.4%	52.5%
26			136		1	0.01	0.00	0.01	0.01	0.00	0.19		4.7%	1.1%	3.2%	3.2%	0.5%	100.0%	0.01	0.00	0.00	0.01	0.00	0.08	42.6%	3.2%	1.1%	2.1%	2.6%	0.5%	42.6%
27			138		2	0.02	0.01	0.03	0.01	0.01	0.42		4.6%	1.2%	7.9%	2.6%	1.7%	100.0%	0.01	0.01	0.03	0.01	0.00	0.19	45.0%	3.4%	1.2%	6.0%	2.2%	0.7%	45.0%
28			139		2	0.02	0.01	0.03	0.01	0.01	0.56		4.3%	0.9%	5.2%	0.9%	0.9%	100.0%	0.02	0.00	0.02	0.00	0.00	0.34	60.6%	3.4%	0.7%	3.9%	0.7%	0.5%	60.6%
29			140		2	0.02	0.01	0.01	0.02	0.00	0.60		3.2%	1.0%	1.2%	2.5%	0.7%	100.0%	0.01	0.01	0.01	0.01	0.00	0.33	55.9%	2.3%	0.8%	1.0%	2.0%	0.5%	55.9%
30			141		2	0.02	0.01	0.05	0.02	0.01	0.42		5.0%	1.2%	13.0%	5.8%	2.2%	100.0%	0.01	0.00	0.04	0.02	0.00	0.21	50.5%	3.1%	1.0%	8.4%	4.8%	1.0%	50.5%
31			146		2	0.01	0.01	0.04	0.01	0.01	0.56		2.3%	1.3%	7.5%	1.1%	1.4%	100.0%	0.01	0.01	0.03	0.01	0.00	0.31	54.6%	1.8%	1.1%	5.5%	0.9%	0.7%	54.6%
32			147		2	0.02	0.01	0.01	0.01	0.01	0.53		4.1%	0.9%	1.7%	2.1%	0.9%	100.0%	0.02	0.01	0.01	0.01	0.00	0.31	57.2%	3.0%	0.9%	0.9%	1.7%	0.6%	57.2%
33			148		2	0.03	0.01	0.04	0.02	0.01	0.49		5.1%	1.0%	7.4%	4.9%	1.4%	100.0%	0.02	0.00	0.02	0.02	0.00	0.23	48.0%	3.1%	0.8%	4.9%	4.1%	0.6%	48.0%
34			152		5	0.06	0.02	0.11	0.02	0.01	1.47		3.7%	1.6%	7.2%	1.6%	0.9%	100.0%	0.04	0.02	0.08	0.02	0.01	0.87	58.8%	3.0%	1.2%	5.6%	1.2%	0.5%	58.8%
35			153		5	0.06	0.02	0.03	0.00	0.01	1.35		4.5%	1.8%	2.2%	0.2%	0.7%	100.0%	0.05	0.02	0.03	0.00	0.01	0.92	68.4%	3.5%	1.6%	1.9%	0.2%	0.4%	68.4%
36			154		5	0.07	0.03	0.01	0.01	0.01	1.48		4.6%	1.9%	0.6%	0.5%	0.3%	100.0%	0.05	0.02	0.01	0.01	0.00	0.99	66.4%	3.4%	1.6%	0.5%	0.3%	0.2%	66.4%
37			155		5	0.07	0.01	0.03	0.04	0.03	1.40		5.1%	1.0%	2.1%	2.7%	1.8%	100.0%	0.05	0.01	0.02	0.03	0.02	0.92	65.9%	3.4%	0.9%	1.4%	2.2%	1.1%	65.9%
38			156		5	0.06	0.01	0.03	0.14	0.03	1.09		5.2%	0.6%	3.0%	12.9%	2.3%	100.0%	0.04	0.01	0.03	0.12	0.02	0.45	41.2%	3.9%	0.5%	2.4%	10.8%	1.6%	41.2%
39			162		5	0.05	0.03	0.10	0.02	0.01	1.44		3.5%	1.7%	7.2%	1.3%	0.6%	100.0%	0.04	0.02	0.08	0.02	0.00	0.84	58.3%	2.8%	1.4%	5.7%	1.0%	0.3%	58.3%
40			163		5	0.05	0.03	0.02	0.01	0.01	1.48		3.3%	2.0%	1.5%	0.5%	0.5%	100.0%	0.04	0.02	0.02	0.01	0.00	1.01	68.1%	2.8%	1.6%	1.1%	0.4%	0.3%	68.1%
41			164		5	0.06	0.02	0.01	0.01	0.01	1.36		4.3%	1.6%	1.0%	1.0%	0.7%	100.0%	0.04	0.02	0.01	0.01	0.01	0.93	68.2%	2.7%	1.4%	0.7%	0.8%	0.4%	68.2%
42			165		5	0.08	0.01	0.04	0.06	0.02	1.42		5.3%	0.8%	2.7%	4.0%	1.4%	100.0%	0.05	0.01	0.03	0.05	0.01	0.84	59.4%	3.5%	0.8%	1.8%	3.3%	0.8%	59.4%
43			0	128	2	0.04	0.02	0.04	0.01	0.01	0.45		9.1%	3.6%	9.1%	2.7%	1.6%	100.0%	0.03	0.01	0.03	0.01	0.00	0.19	41.3%	6.9%	3.1%	6.7%	2.2%	0.7%	41.3%
44			2	130	2	0.02	0.01	0.03	0.01	0.01	0.47		5.2%	2.8%	7.3%	1.9%	1.7%	100.0%	0.02	0.01	0.02	0.01	0.00	0.22	47.7%	4.1%	2.6%	5.2%	1.5%	0.6%	47.7%
45			4	132	2	0.02	0.02	0.03	0.02	0.01	0.53		3.6%	3.2%	5.8%	3.0%	1.1%	100.0%	0.01	0.01	0.02	0.01	0.00	0.23	43.4%	2.4%	2.6%	4.5%	2.2%	0.7%	43.4%
46			6	134	2	0.02	0.02	0.03	0.02	0.01	0.50		3.6%	3.8%	5.0%	3.6%	1.2%	100.0%	0.01	0.02	0.02	0.01	0.00	0.20	40.2%	2.4%	3.2%	3.4%	2.8%	0.8%	40.2%
47			8	136	2	0.03	0.01	0.01	0.01	0.00	0.47		5.5%	2.1%	2.3%	3.0%	0.6%	100.0%	0.02	0.01	0.01	0.01	0.00	0.22	46.6%	4.0%	1.7%	2.1%	2.3%	0.4%	46.6%
48			10	138	4	0.05	0.05	0.07	0.02	0.01	0.93		5.0%	5.2%	7.0%	2.5%	1.4%	100.0%	0.04	0.04	0.05	0.02	0.01	0.38	40.2%	4.0%	4.3%	5.2%	1.9%	0.6%	40.2%
49			11	139	4	0.07	0.05	0.05	0.01	0.01	0.97		7.1%	5.5%	4.9%	1.2%	1.3%	100.0%	0.06	0.05	0.03	0.01	0.01	0.57	58.6%	5.9%	4.7%	3.5%	0.9%	0.8%	58.6%
50			12	140	4	0.05	0.02	0.04	0.04	0.01	1.11		4.2%	2.2%	3.2%	3.1%	1.2%	100.0%	0.03	0.02	0.03	0.03	0.01	0.63	56.2%	2.7%	1.9%	2.5%	2.4%	0.7%	56.2%
51			13	141	4	0.09	0.04	0.08	0.03	0.02	0.86		9.9%	4.3%	9.8%	3.6%	2.0%	100.0%	0.07	0.03	0.06	0.03	0.01	0.37	42.7%	8.2%	3.6%	6.4%	3.0%	0.8%	42.7%
52			18	146	4	0.07	0.05	0.09	0.01	0.02	1.11		6.4%	4.6%	7.9%	0.8%	1.7%	100.0%	0.06	0.04	0.07	0.01	0.01	0.58	52.2%	5.1%	3.9%	5.9%	0.6%	0.9%	52.2%
53			19	147	4	0.06	0.05	0.02	0.03	0.02	0.99		5.7%	5.3%	1.7%	3.1%	1.6%	100.0%	0.04	0.05	0.01	0.03	0.01	0.53	53.5%	4.3%	4.6%	1.1%	2.5%	0.9%	53.5%
54			20	148	4	0.06	0.03	0.04	0.04	0.01	0.80		6.9%	3.6%	5.0%	4.4%	1.6%	100.0%	0.04	0.03	0.03	0.03	0.01	0.39	49.3%	4.4%	3.1%	3.4%	3.5%	1.0%	49.3%
55			24	152	10	0.13	0.12	0.23	0.04	0.02	2.86		4.4%	4.1%	7.9%	1.5%	0.8%	100.0%	0.10	0.10	0.17	0.03	0.01	1.55	54.3%	3.4%	3.3%	6.0%	1.2%	0.5%	54.3%
56			25	153	10	0.20	0.19	0.13	0.01	0.04	2.82		6.9%	6.6%	4.5%	0.4%	1.3%	100.0%	0.16	0.16	0.12	0.01	0.02	1.63	57.9%	5.6%	5.6%	4.2%	0.4%	0.8%	57.9%
57			26	154	10	0.27	0.27	0.04	0.02	0.03	2.67		10.2%	9.9%	1.3%	0.9%	0.9%	100.0%	0.21	0.23	0.02	0.02	0.01	1.59	59.6%	7.9%	8.4%	0.9%	0.7%	0.4%	59.6%
58			27	155	10	0.13	0.09	0.07	0.08	0.04	2.86		4.4%	3.1%	2.4%	2.7%	1.3%	100.0%	0.09	0.07	0.04	0.06	0.02	1.85	64.7%	3.1%	2.6%	1.5%	2.2%	0.7%	64.7%
59			28	156	10	0.15	0.06	0.07	0.21	0.04	2.44		6.0%	2.3%	2.7%	8.5%	1.6%	100.0%	0.11	0.05	0.05	0.16	0.03	1.12	45.8%	4.7%	1.8%	2.1%	6.7%	1.2%	45.8%
60			34	162	10	0.19	0.12	0.20	0.04	0.03	2.88		6.4%	4.2%	6.8%	1.4%	0.9%	100.0%	0.14	0.10	0.17	0.03	0.02	1.53	53.1%	5.0%	3.6%	5.8%	1.1%	0.6%	53.1%
61			35	163	10	0.26	0.28	0.07	0.02	0.03	2.82		9.2%	9.7%	2.5%	0.7%	1.0%	100.0%	0.22	0.23	0.05	0.01	0.02	1.55	55.0%	7.7%	8.2%	1.9%	0.5%	0.6%	55.0%
62			36	164	10	0.17	0.13	0.03	0.03	0.02	2.71		6.1%	4.6%	1.1%	1.2%	0.7%	100.0%	0.11	0.11	0.02	0.02	0.01	1.69	62.4%	4.1%	3.9%	0.8%	0.9%	0.3%	62.4%
63			37	165	10	0.18	0.06	0.08	0.13	0.04	2.86		6.2%	1.9%	2.9%	4.7%	1.5%	100.0%	0.12	0.05	0.05	0.11	0.03	1.57	55.0%	4.3%	1.6%	1.8%	3.8%	1.0%	55.0%

- J–patch Mid CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							6.9%	10.3%	12.8%	10.8%	2.7%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						69.0%	5.5%	8.5%	8.4%	8.8%	1.4%	69.0%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.01	0.01	0.00	0.00	0.15		5.8%	5.2%	7.1%	1.3%	1.3%	100.0%	0.01	0.01	0.01	0.00	0.00	0.06	40.3%	4.5%	4.5%	5.8%	0.6%	0.6%	40.3%
2			2		1	0.01	0.01	0.01	0.00	0.00	0.20		3.5%	4.0%	4.0%	0.5%	1.0%	100.0%	0.01	0.01	0.01	0.00	0.00	0.10	48.5%	2.5%	3.5%	3.5%	0.5%	0.5%	48.5%
3			4		1	0.01	0.01	0.01	0.01	0.00	0.25		3.3%	4.5%	4.9%	2.4%	0.8%	100.0%	0.01	0.01	0.01	0.00	0.00	0.12	47.8%	2.0%	3.7%	3.3%	1.6%	0.4%	47.8%
4			6		1	0.00	0.01	0.01	0.00	0.00	0.22		1.8%	4.6%	3.7%	1.8%	0.5%	100.0%	0.00	0.01	0.01	0.00	0.00	0.10	47.0%	1.4%	3.7%	2.8%	1.4%	0.5%	47.0%
5			8		1	0.01	0.01	0.00	0.00	0.00	0.19		2.6%	3.6%	2.1%	1.5%	0.5%	100.0%	0.00	0.01	0.00	0.00	0.00	0.08	40.7%	2.1%	2.6%	1.5%	1.5%	0.0%	40.7%
6			10		2	0.01	0.03	0.04	0.00	0.00	0.49		1.4%	5.7%	7.3%	0.8%	0.6%	100.0%	0.01	0.02	0.03	0.00	0.00	0.23	47.0%	1.2%	4.7%	5.3%	0.6%	0.4%	47.0%
7			11		2	0.02	0.04	0.01	0.00	0.00	0.61		2.4%	6.0%	1.8%	0.7%	0.7%	100.0%	0.01	0.03	0.01	0.00	0.00	0.35	56.9%	2.0%	4.9%	1.5%	0.5%	0.3%	56.9%
8			12		2	0.02	0.01	0.02	0.01	0.00	0.40		4.0%	2.7%	4.5%	2.5%	1.0%	100.0%	0.01	0.01	0.01	0.01	0.00	0.20	48.9%	2.5%	2.2%	3.2%	2.0%	0.7%	48.9%
9			13		2	0.03	0.03	0.01	0.00	0.00	0.39		6.9%	7.1%	2.3%	1.0%	0.8%	100.0%	0.02	0.02	0.01	0.00	0.00	0.19	47.0%	5.3%	5.8%	1.3%	0.8%	0.5%	47.0%
10			18		2	0.02	0.03	0.02	0.00	0.00	0.53		4.2%	4.7%	4.0%	0.6%	0.8%	100.0%	0.02	0.02	0.02	0.00	0.00	0.22	42.3%	3.4%	4.0%	3.4%	0.4%	0.4%	42.3%
11			19		2	0.01	0.04	0.00	0.01	0.00	0.65		1.5%	5.6%	0.6%	1.1%	0.5%	100.0%	0.01	0.03	0.00	0.01	0.00	0.34	52.5%	1.1%	4.5%	0.5%	0.8%	0.3%	52.5%
12			20		2	0.01	0.02	0.01	0.01	0.00	0.46		2.4%	3.9%	1.1%	1.3%	0.4%	100.0%	0.01	0.02	0.00	0.01	0.00	0.18	38.4%	2.0%	3.3%	0.9%	1.1%	0.2%	38.4%
13			24		5	0.02	0.05	0.08	0.01	0.01	1.17		1.5%	3.8%	6.5%	0.7%	0.9%	100.0%	0.01	0.04	0.06	0.01	0.01	0.63	53.8%	1.1%	3.4%	5.3%	0.5%	0.4%	53.8%
14			25		5	0.05	0.10	0.04	0.01	0.01	1.08		4.6%	9.1%	3.4%	0.6%	1.1%	100.0%	0.04	0.08	0.03	0.01	0.01	0.60	55.8%	3.5%	7.8%	2.6%	0.5%	0.6%	55.8%
15			26		5	0.06	0.16	0.02	0.01	0.01	1.55		3.5%	10.3%	1.2%	0.5%	0.8%	100.0%	0.04	0.13	0.01	0.01	0.00	0.96	61.9%	2.6%	8.5%	0.6%	0.4%	0.3%	61.9%
16			27		5	0.04	0.04	0.01	0.01	0.01	0.88		4.1%	4.9%	1.2%	1.6%	0.6%	100.0%	0.03	0.04	0.01	0.01	0.00	0.47	53.5%	3.1%	4.0%	0.8%	1.2%	0.3%	53.5%
17			28		5	0.03	0.03	0.02	0.03	0.01	1.18		2.6%	2.6%	1.4%	2.5%	0.7%	100.0%	0.03	0.03	0.01	0.02	0.01	0.56	47.3%	2.3%	2.2%	0.9%	2.0%	0.5%	47.3%
18			34		5	0.04	0.07	0.05	0.01	0.01	1.15		3.8%	6.5%	4.5%	0.9%	1.0%	100.0%	0.03	0.06	0.05	0.01	0.01	0.64	55.8%	2.9%	5.4%	4.0%	0.7%	0.6%	55.8%
19			35		5	0.06	0.15	0.03	0.01	0.01	1.50		4.2%	10.3%	1.9%	0.3%	0.9%	100.0%	0.05	0.13	0.02	0.00	0.01	0.85	56.6%	3.5%	8.4%	1.5%	0.3%	0.4%	56.6%
20			36		5	0.03	0.08	0.01	0.01	0.01	0.87		3.6%	8.7%	1.0%	1.5%	0.9%	100.0%	0.02	0.06	0.01	0.01	0.00	0.42	48.3%	2.7%	7.3%	0.6%	1.2%	0.3%	48.3%
21			37		5	0.03	0.03	0.01	0.03	0.01	1.19		2.8%	2.9%	1.2%	2.3%	0.7%	100.0%	0.03	0.03	0.01	0.02	0.01	0.58	49.0%	2.4%	2.4%	0.8%	1.9%	0.5%	49.0%
22			128		1	0.01	0.00	0.02	0.01	0.00	0.28		3.9%	1.1%	7.4%	2.8%	1.4%	100.0%	0.01	0.00	0.01	0.01	0.00	0.14	49.1%	2.8%	1.1%	4.9%	2.5%	0.7%	49.1%
23			130		1	0.01	0.00	0.02	0.01	0.00	0.23		3.8%	1.3%	8.1%	3.0%	1.7%	100.0%	0.01	0.00	0.01	0.01	0.00	0.11	45.3%	3.0%	0.9%	6.0%	2.1%	0.9%	45.3%
24			132		1	0.01	0.00	0.02	0.01	0.00	0.28		2.1%	0.7%	6.4%	2.1%	1.4%	100.0%	0.01	0.00	0.01	0.00	0.00	0.13	46.6%	1.8%	0.7%	5.0%	1.4%	0.7%	46.6%
25			134		1	0.01	0.00	0.01	0.01	0.00	0.27		2.6%	0.7%	4.8%	2.6%	0.7%	100.0%	0.01	0.00	0.01	0.01	0.00	0.13	49.6%	2.2%	0.7%	3.3%	2.2%	0.4%	49.6%
26			136		1	0.01	0.00	0.01	0.01	0.00	0.23		4.4%	0.9%	3.5%	3.1%	0.9%	100.0%	0.01	0.00	0.01	0.01	0.00	0.10	42.7%	3.1%	0.9%	2.6%	2.6%	0.4%	42.7%
27			138		2	0.02	0.01	0.03	0.01	0.01	0.49		3.3%	1.2%	6.3%	2.4%	1.4%	100.0%	0.01	0.01	0.02	0.01	0.00	0.22	45.2%	2.6%	1.0%	4.9%	2.0%	0.6%	45.2%
28			139		2	0.03	0.01	0.03	0.00	0.01	0.61		4.9%	1.1%	4.1%	0.5%	1.0%	100.0%	0.02	0.01	0.02	0.00	0.00	0.37	59.6%	3.7%	1.0%	3.1%	0.3%	0.5%	59.6%
29			140		2	0.02	0.01	0.01	0.01	0.00	0.70		2.9%	0.9%	1.4%	2.0%	0.6%	100.0%	0.02	0.01	0.01	0.01	0.00	0.39	55.9%	2.3%	0.7%	1.0%	1.6%	0.3%	55.9%
30			141		2	0.02	0.01	0.06	0.03	0.01	0.44		4.8%	1.1%	12.8%	6.4%	2.7%	100.0%	0.01	0.00	0.04	0.02	0.00	0.22	50.7%	3.0%	0.9%	8.4%	5.3%	0.9%	50.7%
31			146		2	0.01	0.01	0.04	0.01	0.01	0.62		2.0%	1.0%	6.7%	1.0%	1.3%	100.0%	0.01	0.01	0.03	0.01	0.00	0.33	53.2%	1.5%	1.0%	5.0%	0.8%	0.7%	53.2%
32			147		2	0.02	0.01	0.01	0.01	0.01	0.58		4.1%	0.9%	2.1%	2.1%	0.9%	100.0%	0.02	0.01	0.01	0.01	0.00	0.33	56.6%	3.1%	0.9%	1.2%	1.7%	0.5%	56.6%
33			148		2	0.02	0.01	0.04	0.03	0.01	0.52		4.6%	1.0%	7.4%	5.2%	1.7%	100.0%	0.02	0.00	0.03	0.02	0.00	0.27	50.6%	2.9%	0.8%	5.0%	4.4%	0.6%	50.6%
34			152		5	0.04	0.03	0.11	0.01	0.01	1.63		2.6%	1.8%	6.5%	0.9%	0.8%	100.0%	0.04	0.02	0.08	0.01	0.01	0.95	58.5%	2.2%	1.4%	4.9%	0.7%	0.4%	58.5%
35			153		5	0.06	0.04	0.03	0.00	0.01	1.53		3.8%	2.3%	2.2%	0.1%	0.7%	100.0%	0.05	0.03	0.03	0.00	0.01	1.06	68.9%	3.0%	2.1%	1.7%	0.1%	0.4%	68.9%
36			154		5	0.06	0.02	0.01	0.01	0.01	1.59		3.8%	1.4%	0.7%	0.4%	0.3%	100.0%	0.05	0.02	0.01	0.01	0.00	1.07	67.4%	2.8%	1.2%	0.5%	0.3%	0.1%	67.4%
37			155		5	0.06	0.02	0.03	0.04	0.02	1.61		3.7%	1.0%	1.9%	2.2%	1.2%	100.0%	0.04	0.01	0.02	0.03	0.01	1.08	66.8%	2.6%	0.8%	1.1%	1.8%	0.7%	66.8%
38			156		5	0.08	0.01	0.03	0.14	0.03	1.30		5.8%	1.0%	2.5%	10.8%	1.9%	100.0%	0.06	0.01	0.03	0.12	0.02	0.57	43.4%	4.5%	0.7%	1.9%	8.8%	1.4%	43.4%
39			162		5	0.05	0.03	0.10	0.01	0.01	1.61		2.8%	1.9%	6.3%	0.7%	0.7%	100.0%	0.04	0.02	0.08	0.01	0.01	0.94	58.2%	2.4%	1.5%	4.7%	0.6%	0.4%	58.2%
40			163		5	0.05	0.03	0.02	0.01	0.01	1.59		3.1%	1.8%	1.5%	0.5%	0.4%	100.0%	0.04	0.02	0.02	0.01	0.00	1.09	68.4%	2.5%	1.5%	1.0%	0.4%	0.3%	68.4%
41			164		5	0.06	0.02	0.02	0.02	0.01	1.52		3.6%	1.3%	1.1%	1.1%	0.6%	100.0%	0.04	0.02	0.01	0.01	0.01	1.05	69.0%	2.4%	1.1%	0.7%	0.9%	0.4%	69.0%
42			165		5	0.08	0.02	0.04	0.06	0.02	1.62		4.7%	1.0%	2.5%	3.4%	1.3%	100.0%	0.06	0.01	0.02	0.05	0.01	0.96	59.4%	3.4%	0.7%	1.5%	2.8%	0.7%	59.4%
43			0	128	2	0.03	0.01	0.04	0.01	0.01	0.50		6.6%	2.8%	8.7%	2.8%	1.8%	100.0%	0.03	0.01	0.03	0.01	0.00	0.22	43.3%	5.0%	2.4%	6.6%	2.2%	0.8%	43.3%
44			2	130	2	0.03	0.02	0.04	0.01	0.01	0.53		4.7%	3.0%	6.6%	1.9%	1.5%	100.0%	0.02	0.01	0.03	0.01	0.00	0.27	50.9%	3.8%	2.5%	4.7%	1.5%	0.8%	50.9%
45			4	132	2	0.02	0.02	0.04	0.02	0.01	0.61		3.6%	3.3%	5.7%	2.8%	1.0%	100.0%	0.01	0.02	0.03	0.01	0.00	0.28	45.1%	2.0%	2.8%	4.4%	2.1%	0.7%	45.1%
46			6	134	2	0.01	0.02	0.02	0.02	0.00	0.55		2.5%	3.4%	3.8%	3.4%	0.7%	100.0%	0.01	0.02	0.02	0.01	0.00	0.24	42.6%	2.0%	2.7%	2.9%	2.5%	0.4%	42.6%
47			8	136	2	0.02	0.01	0.01	0.02	0.00	0.52		3.4%	2.1%	2.7%	2.9%	0.6%	100.0%	0.01	0.01	0.01	0.01	0.00	0.22	42.0%	2.7%	1.9%	2.1%	2.1%	0.4%	42.0%
48			10	138	4	0.04	0.05	0.07	0.02	0.01	1.11		3.6%	4.6%	6.6%	2.2%	1.1%	100.0%	0.03	0.04	0.05	0.02	0.01	0.48	43.4%	2.9%	3.8%	4.2%	1.7%	0.5%	43.4%
49			11	139	4	0.07	0.07	0.04	0.01	0.02	1.25		5.2%	5.2%	3.3%	0.8%	1.2%	100.0%	0.05	0.05	0.03	0.01	0.01	0.78	62.3%	4.0%	4.2%	2.6%	0.6%	0.6%	62.3%
50			12	140	4	0.05	0.03	0.04	0.04	0.01	1.24		4.4%	2.3%	2.8%	3.0%	1.1%	100.0%	0.03	0.02	0.03	0.03	0.01	0.68	55.1%	2.8%	1.9%	2.1%	2.3%	0.7%	55.1%
51			13	141	4	0.06	0.04	0.09	0.04	0.02	0.98		5.8%	4.3%	9.4%	4.3%	1.8%	100.0%	0.05	0.03	0.06	0.03	0.01	0.44	44.4%	4.6%	3.5%	6.3%	3.4%	0.7%	44.4%
52			18	146	4	0.06	0.05	0.08	0.01	0.02	1.25		4.7%	4.0%	6.7%	1.0%	1.4%	100.0%	0.05	0.04	0.07	0.01	0.01	0.63	50.4%	3.6%	3.4%	5.2%	0.8%	0.6%	50.4%
53			19	147	4	0.05	0.06	0.02	0.03	0.01	1.17		4.3%	5.1%	1.7%	2.3%	1.2%	100.0%	0.04	0.05	0.01	0.02	0.01	0.64	54.7%	3.0%	4.3%	1.1%	1.8%	0.8%	54.7%
54			20	148	4	0.05	0.04	0.04	0.04	0.01	0.87		6.1%	4.6%	5.1%	4.6%	1.4%	100.0%	0.04	0.03	0.03	0.04	0.01	0.42	48.3%	4.0%	3.8%	3.4%	4.0%	0.8%	48.3%
55			24	152	10	0.11	0.13	0.25	0.03	0.04	3.21		3.4%	4.1%	7.9%	0.9%	1.3%	100.0%	0.09	0.10	0.19	0.02	0.02	1.77	55.0%	2.6%	3.2%	5.9%	0.7%	0.5%	55.0%
56			25	153	10	0.21	0.23	0.12	0.01	0.04	2.97		6.9%	7.9%	3.9%	0.5%	1.4%	100.0%	0.16	0.20	0.09	0.01	0.02	1.65	55.7%	5.3%	6.7%	2.9%	0.4%	0.8%	55.7%
57			26	154	10	0.21	0.29	0.04	0.02	0.02	3.40		6.3%	8.4%	1.3%	0.6%	0.6%	100.0%	0.17	0.24	0.03	0.02	0.01	2.17	64.0%	4.9%	7.1%	0.8%	0.5%	0.3%	64.0%
58			27	155	10	0.12	0.09	0.07	0.08	0.03	3.01		3.8%	3.0%	2.4%	2.6%	1.1%	100.0%	0.09	0.07	0.05	0.06	0.02	1.87	62.4%	2.9%	2.4%	1.5%	2.1%	0.6%	62.4%
59			28	156	10	0.17	0.07	0.07	0.22	0.04	3.00		5.7%	2.4%	2.4%	7.2%	1.4%	100.0%	0.13	0.06	0.06	0.17	0.03	1.43	47.7%	4.4%	1.9%	1.9%	5.8%	1.0%	47.7%
60			34	162	10	0.17	0.15	0.19	0.03	0.04	3.14		5.3%	4.7%	6.2%	0.8%	1.2%	100.0%	0.13	0.12	0.16	0.02	0.02	1.67	53.0%	4.1%	3.9%	5.0%	0.7%	0.7%	53.0%
61			35	163	10	0.21	0.28	0.08	0.02	0.03	3.21		6.6%	8.6%	2.5%	0.5%	0.8%	100.0%	0.18	0.23	0.06	0.01	0.01	1.96	60.9%	5.5%	7.3%	1.8%	0.4%	0.4%	60.9%
62			36	164	10	0.15	0.15	0.03	0.04	0.02	2.65		5.8%	5.5%	1.2%	1.5%	0.9%	100.0%	0.11	0.12	0.02	0.03	0.01	1.57	59.4%	4.1%	4.5%	0.9%	1.1%	0.4%	59.4%
63			37	165	10	0.20	0.07	0.08	0.15	0.05	3.28		6.0%	2.3%	2.5%	4.5%	1.5%	100.0%	0.13	0.06	0.05	0.11	0.03	1.82	55.6%	4.0%	1.9%	1.6%	3.5%	1.0%	55.6%

- J–patch High CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							**6.4%**	**9.3%**	**10.0%**	**8.9%**	**3.2%**	**100.0%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**70.7%**	**4.8%**	**7.5%**	**7.4%**	**7.4%**	**1.3%**	**70.7%**
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.01	0.01	0.00	0.00	**0.20**		4.9%	4.4%	3.9%	0.5%	1.5%	100.0%	0.01	0.01	0.01	0.00	0.00	**0.08**	40.4%	3.4%	3.4%	3.0%	0.5%	1.0%	40.4%
2			2		1	0.01	0.01	0.01	0.00	0.00	**0.20**		5.5%	4.0%	5.0%	0.5%	1.0%	100.0%	0.01	0.01	0.01	0.00	0.00	**0.11**	52.2%	4.0%	3.5%	4.0%	0.5%	0.5%	52.2%
3			4		1	0.01	0.01	0.01	0.01	0.00	**0.29**		2.8%	4.2%	3.8%	1.7%	0.7%	100.0%	0.01	0.01	0.01	0.00	0.00	**0.14**	49.3%	1.7%	3.5%	2.4%	1.4%	0.3%	49.3%
4			6		1	0.00	0.01	0.01	0.00	0.00	**0.27**		1.5%	4.1%	3.0%	1.1%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	**0.14**	52.3%	0.8%	3.4%	2.6%	0.8%	0.4%	52.3%
5			8		1	0.01	0.01	0.00	0.00	0.00	**0.19**		2.7%	3.2%	2.1%	1.6%	0.5%	100.0%	0.00	0.01	0.00	0.00	0.00	**0.09**	46.8%	2.1%	2.7%	1.6%	1.6%	0.5%	46.8%
6			10		2	0.01	0.03	0.03	0.00	0.00	**0.60**		0.8%	5.2%	5.5%	0.5%	0.5%	100.0%	0.00	0.03	0.03	0.00	0.00	**0.32**	53.4%	0.7%	4.2%	4.2%	0.3%	0.2%	53.4%
7			11		2	0.01	0.04	0.01	0.00	0.00	**0.66**		2.0%	5.9%	1.5%	0.5%	0.5%	100.0%	0.01	0.03	0.01	0.00	0.00	**0.38**	57.8%	1.5%	4.9%	1.2%	0.3%	0.2%	57.8%
8			12		2	0.02	0.01	0.02	0.01	0.00	**0.42**		4.0%	3.1%	4.2%	2.4%	0.9%	100.0%	0.01	0.01	0.01	0.01	0.00	**0.22**	51.7%	2.4%	2.6%	3.1%	1.9%	0.7%	51.7%
9			13		2	0.03	0.03	0.01	0.00	0.00	**0.48**		5.2%	6.2%	1.2%	0.8%	0.6%	100.0%	0.02	0.03	0.00	0.00	0.00	**0.25**	50.9%	3.9%	5.4%	0.8%	0.8%	0.4%	50.9%
10			18		2	0.01	0.02	0.02	0.00	0.00	**0.62**		2.3%	3.5%	2.9%	0.3%	0.5%	100.0%	0.01	0.02	0.02	0.00	0.00	**0.30**	48.4%	1.9%	2.9%	2.4%	0.3%	0.3%	48.4%
11			19		2	0.01	0.04	0.01	0.01	0.00	**0.78**		1.3%	5.2%	0.9%	0.8%	0.4%	100.0%	0.01	0.03	0.00	0.01	0.00	**0.43**	54.7%	0.8%	4.4%	0.5%	0.6%	0.3%	54.7%
12			20		2	0.01	0.02	0.01	0.01	0.00	**0.49**		1.9%	3.3%	1.0%	1.2%	0.4%	100.0%	0.01	0.01	0.00	0.01	0.00	**0.21**	42.5%	1.4%	2.7%	0.8%	1.0%	0.2%	42.5%
13			24		5	0.02	0.05	0.08	0.01	0.01	**1.27**		1.3%	3.6%	6.5%	0.4%	0.7%	100.0%	0.01	0.04	0.07	0.01	0.00	**0.70**	55.6%	0.9%	2.9%	5.5%	0.4%	0.3%	55.6%
14			25		5	0.04	0.10	0.04	0.01	0.01	**1.20**		3.2%	7.9%	3.3%	0.6%	0.6%	100.0%	0.03	0.08	0.03	0.01	0.00	**0.68**	56.4%	2.3%	6.7%	2.4%	0.6%	0.3%	56.4%
15			26		5	0.03	0.18	0.02	0.01	0.01	**1.96**		1.7%	9.3%	0.8%	0.3%	0.7%	100.0%	0.02	0.15	0.01	0.01	0.00	**1.20**	61.2%	1.2%	7.5%	0.6%	0.3%	0.2%	61.2%
16			27		5	0.04	0.04	0.01	0.01	0.01	**0.77**		4.8%	4.7%	1.0%	1.8%	0.7%	100.0%	0.03	0.03	0.01	0.01	0.00	**0.37**	48.6%	3.7%	3.8%	0.8%	1.4%	0.4%	48.6%
17			28		5	0.04	0.03	0.02	0.03	0.01	**1.17**		3.5%	2.8%	1.4%	2.6%	0.8%	100.0%	0.02	0.03	0.01	0.02	0.01	**0.60**	51.2%	2.0%	2.3%	0.9%	2.0%	0.5%	51.2%
18			34		5	0.03	0.07	0.05	0.01	0.01	**1.20**		2.8%	6.1%	3.9%	0.8%	0.6%	100.0%	0.03	0.06	0.04	0.01	0.00	**0.71**	59.3%	2.1%	5.2%	3.4%	0.7%	0.3%	59.3%
19			35		5	0.06	0.15	0.02	0.00	0.01	**1.70**		3.6%	8.9%	1.4%	0.2%	0.8%	100.0%	0.05	0.13	0.02	0.00	0.00	**1.01**	59.3%	2.7%	7.4%	0.9%	0.2%	0.2%	59.3%
20			36		5	0.03	0.09	0.01	0.01	0.01	**1.04**		3.2%	8.6%	1.2%	1.0%	0.8%	100.0%	0.02	0.07	0.01	0.01	0.00	**0.58**	55.7%	2.1%	7.1%	0.8%	0.8%	0.3%	55.7%
21			37		5	0.04	0.03	0.01	0.03	0.01	**1.14**		3.2%	3.0%	1.1%	2.4%	0.8%	100.0%	0.02	0.03	0.01	0.02	0.01	**0.60**	52.8%	2.0%	2.4%	0.9%	1.9%	0.5%	52.8%
22			128		1	0.01	0.00	0.02	0.01	0.00	**0.30**		3.4%	1.0%	7.1%	2.4%	1.3%	100.0%	0.01	0.00	0.01	0.01	0.00	**0.15**	49.5%	2.7%	1.0%	4.7%	2.0%	0.7%	49.5%
23			130		1	0.01	0.00	0.02	0.01	0.01	**0.27**		3.7%	1.1%	7.8%	2.6%	1.9%	100.0%	0.01	0.00	0.02	0.01	0.00	**0.12**	44.6%	2.6%	1.1%	5.6%	2.2%	1.1%	44.6%
24			132		1	0.01	0.00	0.02	0.01	0.00	**0.30**		2.0%	1.0%	5.6%	2.3%	1.3%	100.0%	0.00	0.00	0.01	0.01	0.00	**0.14**	46.2%	1.3%	0.7%	4.7%	2.0%	0.7%	46.2%
25			134		1	0.01	0.00	0.01	0.01	0.00	**0.31**		2.6%	0.6%	3.5%	2.6%	1.3%	100.0%	0.01	0.00	0.01	0.01	0.00	**0.15**	46.5%	1.9%	0.6%	2.9%	2.2%	0.6%	46.5%
26			136		1	0.01	0.00	0.01	0.01	0.00	**0.26**		3.8%	0.8%	3.1%	2.7%	0.8%	100.0%	0.01	0.00	0.01	0.01	0.00	**0.12**	44.2%	3.1%	0.8%	2.3%	1.9%	0.4%	44.2%
27			138		2	0.01	0.01	0.03	0.01	0.01	**0.58**		2.1%	1.0%	5.3%	2.4%	1.4%	100.0%	0.01	0.01	0.03	0.01	0.00	**0.29**	49.2%	1.5%	0.9%	4.3%	1.9%	0.7%	49.2%
28			139		2	0.03	0.01	0.03	0.00	0.00	**0.67**		3.9%	1.5%	3.9%	0.3%	0.6%	100.0%	0.02	0.01	0.02	0.00	0.00	**0.40**	58.8%	2.7%	1.3%	3.1%	0.3%	0.3%	58.8%
29			140		2	0.02	0.01	0.01	0.02	0.00	**0.77**		2.3%	0.8%	1.2%	2.2%	0.4%	100.0%	0.01	0.01	0.01	0.01	0.00	**0.44**	56.5%	1.7%	0.6%	0.9%	1.8%	0.3%	56.5%
30			141		2	0.02	0.01	0.05	0.03	0.02	**0.47**		3.6%	1.3%	10.0%	5.3%	3.2%	100.0%	0.01	0.01	0.04	0.02	0.01	**0.25**	52.7%	2.3%	1.1%	7.4%	4.2%	1.3%	52.7%
31			146		2	0.01	0.01	0.04	0.01	0.01	**0.67**		2.1%	0.9%	5.8%	1.2%	1.6%	100.0%	0.01	0.01	0.03	0.01	0.01	**0.36**	53.7%	1.2%	0.7%	4.6%	1.0%	0.7%	53.7%
32			147		2	0.02	0.01	0.01	0.02	0.00	**0.65**		3.2%	1.2%	2.1%	2.3%	0.5%	100.0%	0.02	0.01	0.01	0.01	0.00	**0.37**	57.4%	2.3%	1.1%	1.4%	1.8%	0.3%	57.4%
33			148		2	0.02	0.01	0.04	0.03	0.01	**0.58**		3.1%	0.9%	6.2%	4.5%	1.9%	100.0%	0.01	0.00	0.03	0.02	0.01	**0.31**	53.5%	2.1%	0.7%	4.5%	3.6%	0.9%	53.5%
34			152		5	0.04	0.04	0.11	0.01	0.02	**1.78**		2.2%	2.1%	6.2%	0.7%	1.1%	100.0%	0.03	0.03	0.08	0.01	0.01	**1.07**	60.1%	1.6%	1.6%	4.5%	0.6%	0.5%	60.1%
35			153		5	0.06	0.04	0.05	0.00	0.01	**1.65**		3.6%	2.4%	2.8%	0.1%	0.5%	100.0%	0.05	0.03	0.04	0.00	0.01	**1.16**	70.2%	2.7%	2.1%	2.2%	0.1%	0.4%	70.2%
36			154		5	0.05	0.02	0.01	0.01	0.01	**1.65**		3.0%	1.3%	0.6%	0.4%	0.3%	100.0%	0.04	0.02	0.01	0.01	0.00	**1.14**	68.9%	2.1%	1.0%	0.4%	0.4%	0.1%	68.9%
37			155		5	0.05	0.02	0.03	0.03	0.02	**1.80**		2.5%	0.9%	1.6%	1.4%	0.8%	100.0%	0.03	0.01	0.02	0.02	0.01	**1.22**	67.5%	1.7%	0.7%	1.1%	1.2%	0.5%	67.5%
38			156		5	0.08	0.01	0.03	0.13	0.02	**1.50**		5.4%	0.9%	2.1%	8.9%	1.6%	100.0%	0.06	0.01	0.02	0.11	0.02	**0.70**	46.5%	4.1%	0.7%	1.5%	7.4%	1.1%	46.5%
39			162		5	0.05	0.04	0.10	0.01	0.02	**1.77**		2.7%	2.3%	5.4%	0.6%	0.8%	100.0%	0.04	0.03	0.08	0.01	0.01	**1.07**	60.5%	2.0%	1.9%	4.2%	0.5%	0.3%	60.5%
40			163		5	0.06	0.03	0.03	0.01	0.01	**1.66**		3.3%	1.8%	2.1%	0.4%	0.4%	100.0%	0.04	0.03	0.02	0.01	0.00	**1.15**	69.1%	2.4%	1.5%	1.4%	0.4%	0.2%	69.1%
41			164		5	0.06	0.02	0.02	0.02	0.01	**1.63**		3.7%	1.4%	0.9%	1.4%	0.6%	100.0%	0.04	0.02	0.01	0.02	0.00	**1.15**	70.7%	2.4%	1.0%	0.7%	1.2%	0.2%	70.7%
42			165		5	0.07	0.02	0.03	0.04	0.02	**1.86**		3.6%	0.9%	1.6%	2.3%	1.0%	100.0%	0.05	0.01	0.02	0.04	0.01	**1.12**	60.1%	2.7%	0.7%	1.1%	1.9%	0.5%	60.1%
43			0	128	2	0.02	0.02	0.05	0.01	0.01	**0.54**		4.4%	2.9%	8.3%	2.0%	1.3%	100.0%	0.02	0.01	0.03	0.01	0.00	**0.26**	47.0%	3.1%	2.4%	6.1%	1.7%	0.6%	47.0%
44			2	130	2	0.03	0.02	0.05	0.01	0.01	**0.55**		5.3%	2.9%	8.6%	1.8%	1.8%	100.0%	0.02	0.01	0.03	0.01	0.01	**0.30**	53.8%	4.0%	2.6%	6.0%	1.5%	0.9%	53.8%
45			4	132	2	0.02	0.02	0.03	0.01	0.01	**0.66**		3.3%	3.2%	5.0%	2.1%	1.1%	100.0%	0.01	0.02	0.03	0.01	0.00	**0.31**	46.6%	1.8%	2.7%	3.8%	1.7%	0.6%	46.6%
46			6	134	2	0.01	0.02	0.02	0.01	0.01	**0.63**		2.2%	3.2%	3.5%	2.1%	0.8%	100.0%	0.01	0.02	0.02	0.01	0.00	**0.30**	47.2%	1.4%	2.7%	2.5%	1.6%	0.5%	47.2%
47			8	136	2	0.02	0.01	0.02	0.02	0.00	**0.54**		2.8%	1.8%	2.9%	2.8%	0.7%	100.0%	0.01	0.01	0.01	0.01	0.00	**0.24**	44.9%	1.8%	1.7%	2.0%	2.2%	0.4%	44.9%
48			10	138	4	0.03	0.05	0.08	0.02	0.02	**1.29**		2.3%	3.8%	5.9%	1.2%	1.2%	100.0%	0.02	0.04	0.05	0.01	0.01	**0.61**	47.7%	1.9%	3.1%	4.2%	0.9%	0.5%	47.7%
49			11	139	4	0.07	0.07	0.05	0.01	0.01	**1.36**		5.2%	5.2%	3.5%	0.6%	0.8%	100.0%	0.05	0.06	0.04	0.01	0.01	**0.84**	62.3%	3.8%	4.4%	3.0%	0.5%	0.4%	62.3%
50			12	140	4	0.05	0.03	0.03	0.03	0.01	**1.29**		4.0%	2.4%	2.6%	2.6%	1.0%	100.0%	0.04	0.03	0.02	0.03	0.01	**0.72**	55.6%	2.7%	2.0%	1.9%	2.0%	0.7%	55.6%
51			13	141	4	0.05	0.04	0.07	0.04	0.02	**1.08**		4.6%	4.1%	6.2%	3.4%	1.8%	100.0%	0.04	0.04	0.05	0.03	0.01	**0.49**	45.6%	3.4%	3.3%	4.3%	2.8%	0.7%	45.6%
52			18	146	4	0.04	0.04	0.08	0.01	0.02	**1.41**		2.9%	3.0%	5.7%	0.8%	1.3%	100.0%	0.03	0.04	0.06	0.01	0.01	**0.73**	51.9%	2.3%	2.6%	4.5%	0.6%	0.7%	51.9%
53			19	147	4	0.04	0.06	0.02	0.02	0.01	**1.31**		3.1%	4.6%	1.4%	1.8%	0.8%	100.0%	0.03	0.05	0.01	0.02	0.01	**0.74**	56.4%	2.2%	3.9%	1.0%	1.4%	0.5%	56.4%
54			20	148	4	0.04	0.03	0.05	0.03	0.02	**0.99**		3.5%	2.7%	4.8%	3.4%	1.5%	100.0%	0.02	0.02	0.03	0.03	0.01	**0.52**	52.7%	2.4%	2.3%	3.4%	2.9%	0.6%	52.7%
55			24	152	10	0.10	0.15	0.28	0.03	0.05	**3.60**		2.7%	4.1%	7.9%	0.7%	1.4%	100.0%	0.07	0.12	0.23	0.02	0.02	**2.09**	57.9%	2.0%	3.3%	6.3%	0.6%	0.6%	57.9%
56			25	153	10	0.18	0.23	0.11	0.01	0.03	**2.96**		6.2%	7.7%	3.9%	0.5%	0.9%	100.0%	0.14	0.20	0.08	0.01	0.02	**1.87**	63.0%	4.6%	6.7%	2.8%	0.4%	0.5%	63.0%
57			26	154	10	0.16	0.28	0.05	0.02	0.02	**3.71**		4.2%	7.6%	1.2%	0.5%	0.5%	100.0%	0.11	0.24	0.03	0.01	0.01	**2.41**	65.1%	2.8%	6.4%	0.8%	0.4%	0.2%	65.1%
58			27	155	10	0.10	0.07	0.05	0.06	0.03	**3.02**		3.1%	2.4%	1.6%	2.0%	0.8%	100.0%	0.07	0.06	0.03	0.05	0.02	**1.94**	64.3%	2.3%	2.1%	1.1%	1.6%	0.5%	64.3%
59			28	156	10	0.18	0.08	0.07	0.18	0.05	**3.27**		5.5%	2.4%	2.2%	5.4%	1.4%	100.0%	0.14	0.06	0.05	0.14	0.03	**1.73**	52.9%	4.2%	1.9%	1.7%	4.3%	0.9%	52.9%
60			34	162	10	0.14	0.15	0.22	0.02	0.03	**3.38**		4.2%	4.4%	6.4%	0.5%	0.9%	100.0%	0.11	0.13	0.18	0.02	0.01	**1.90**	56.2%	3.2%	3.8%	5.3%	0.5%	0.4%	56.2%
61			35	163	10	0.22	0.26	0.08	0.02	0.02	**3.45**		6.4%	7.6%	2.2%	0.5%	0.6%	100.0%	0.17	0.22	0.06	0.01	0.01	**2.25**	65.4%	4.8%	6.4%	1.7%	0.4%	0.4%	65.4%
62			36	164	10	0.17	0.15	0.03	0.03	0.03	**2.80**		6.0%	5.4%	1.1%	1.2%	0.9%	100.0%	0.12	0.13	0.02	0.03	0.01	**1.90**	67.6%	4.1%	4.5%	0.8%	1.0%	0.4%	67.6%
63			37	165	10	0.19	0.07	0.06	0.14	0.05	**3.61**		5.2%	2.0%	1.6%	3.7%	1.4%	100.0%	0.12	0.06	0.04	0.11	0.03	**2.14**	59.2%	3.4%	1.7%	1.2%	2.9%	0.8%	59.2%

[Folder Closed Status]

- J–patch Low CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							**10.8%**	**65.1%**	**13.3%**	**11.4%**	**4.1%**	**100.0%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**69.8%**	**8.5%**	**40.7%**	**8.7%**	**9.7%**	**2.5%**	**69.8%**
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.02	0.06	0.01	0.00	0.00	**0.15**		10.1%	37.2%	8.8%	0.7%	2.0%	100.0%	0.01	0.03	0.01	0.00	0.00	**0.06**	37.8%	7.4%	19.6%	6.8%	0.7%	1.4%	37.8%
2			2		1	0.01	0.07	0.01	0.00	0.00	**0.16**		5.7%	44.9%	4.4%	0.6%	1.9%	100.0%	0.01	0.04	0.01	0.00	0.00	**0.07**	45.6%	5.1%	22.8%	3.2%	0.6%	1.3%	45.6%
3			4		1	0.01	0.10	0.01	0.00	0.00	**0.18**		3.3%	54.1%	6.0%	2.2%	2.2%	100.0%	0.00	0.05	0.01	0.00	0.00	**0.08**	45.9%	2.2%	25.7%	4.4%	1.6%	1.1%	45.9%
4			6		1	0.00	0.09	0.01	0.00	0.00	**0.18**		2.3%	50.3%	2.8%	2.3%	1.7%	100.0%	0.00	0.04	0.00	0.00	0.00	**0.07**	37.9%	1.7%	23.7%	2.3%	1.7%	1.1%	37.9%
5			8		1	0.01	0.07	0.00	0.00	0.00	**0.19**		3.2%	34.4%	1.6%	1.6%	1.6%	100.0%	0.01	0.03	0.00	0.00	0.00	**0.08**	44.4%	2.6%	14.8%	1.1%	1.1%	1.1%	44.4%
6			10		2	0.01	0.20	0.03	0.00	0.01	**0.42**		2.7%	47.2%	7.2%	0.7%	2.4%	100.0%	0.01	0.10	0.02	0.00	0.01	**0.18**	44.3%	1.9%	24.1%	5.1%	0.7%	1.2%	44.3%
7			11		2	0.02	0.27	0.01	0.00	0.01	**0.42**		4.8%	65.1%	2.9%	0.7%	2.9%	100.0%	0.02	0.15	0.01	0.00	0.01	**0.23**	55.3%	3.8%	35.3%	1.9%	0.7%	1.7%	55.3%
8			12		2	0.01	0.13	0.01	0.01	0.01	**0.36**		3.1%	37.0%	3.9%	2.2%	1.4%	100.0%	0.01	0.06	0.01	0.01	0.00	**0.18**	49.9%	1.9%	15.9%	2.8%	1.7%	0.8%	49.9%
9			13		2	0.04	0.18	0.01	0.00	0.01	**0.34**		10.8%	51.2%	2.6%	0.6%	2.6%	100.0%	0.03	0.10	0.01	0.00	0.01	**0.14**	40.4%	8.5%	30.4%	1.5%	0.6%	1.5%	40.4%
10			18		2	0.03	0.20	0.02	0.00	0.01	**0.44**		6.6%	45.1%	5.0%	0.7%	2.3%	100.0%	0.02	0.10	0.02	0.00	0.01	**0.18**	40.3%	5.5%	22.7%	3.9%	0.5%	1.1%	40.3%
11			19		2	0.01	0.27	0.01	0.01	0.01	**0.46**		3.1%	59.3%	1.1%	1.8%	2.4%	100.0%	0.01	0.14	0.00	0.01	0.01	**0.22**	48.4%	2.2%	30.1%	0.9%	1.5%	1.3%	48.4%
12			20		2	0.01	0.17	0.00	0.01	0.01	**0.43**		2.8%	40.8%	0.9%	1.4%	1.6%	100.0%	0.01	0.08	0.00	0.01	0.00	**0.17**	40.8%	2.1%	18.3%	0.7%	1.2%	0.9%	40.8%
13			24		5	0.02	0.45	0.07	0.01	0.02	**0.97**		2.1%	45.8%	6.7%	0.8%	1.8%	100.0%	0.02	0.20	0.04	0.01	0.01	**0.55**	56.4%	1.6%	20.9%	4.3%	0.7%	1.1%	56.4%
14			25		5	0.05	0.59	0.04	0.01	0.04	**1.01**		5.0%	58.2%	3.8%	0.5%	3.8%	100.0%	0.04	0.32	0.02	0.00	0.02	**0.58**	57.5%	3.9%	31.6%	2.3%	0.4%	2.2%	57.5%
15			26		5	0.08	0.62	0.02	0.01	0.04	**0.98**		8.6%	63.8%	1.5%	0.9%	4.1%	100.0%	0.06	0.40	0.01	0.01	0.02	**0.51**	52.4%	6.4%	40.7%	1.1%	0.7%	2.5%	52.4%
16			27		5	0.04	0.47	0.01	0.01	0.02	**0.94**		3.8%	50.2%	1.4%	1.2%	2.4%	100.0%	0.03	0.23	0.01	0.01	0.01	**0.57**	61.2%	3.2%	24.5%	0.9%	1.0%	1.4%	61.2%
17			28		5	0.04	0.39	0.02	0.02	0.01	**1.01**		4.1%	38.2%	1.6%	2.3%	1.4%	100.0%	0.04	0.17	0.01	0.02	0.01	**0.45**	44.6%	3.5%	16.3%	0.7%	1.9%	0.8%	44.6%
18			34		5	0.05	0.57	0.05	0.01	0.03	**1.02**		4.6%	55.9%	4.4%	0.7%	3.0%	100.0%	0.04	0.28	0.02	0.01	0.02	**0.59**	58.1%	3.5%	27.1%	2.4%	0.6%	1.8%	58.1%
19			35		5	0.11	0.72	0.03	0.00	0.05	**1.17**		9.0%	61.6%	2.6%	0.3%	3.9%	100.0%	0.09	0.43	0.02	0.00	0.03	**0.60**	51.6%	7.4%	36.6%	2.0%	0.3%	2.3%	51.6%
20			36		5	0.04	0.36	0.01	0.01	0.03	**0.84**		4.9%	43.6%	1.0%	1.4%	3.1%	100.0%	0.03	0.21	0.01	0.01	0.02	**0.41**	49.5%	3.6%	24.6%	0.6%	1.1%	1.9%	49.5%
21			37		5	0.04	0.42	0.02	0.02	0.02	**1.03**		4.0%	40.4%	1.5%	2.0%	1.5%	100.0%	0.04	0.18	0.01	0.02	0.01	**0.49**	47.9%	3.4%	17.4%	0.7%	1.7%	0.9%	47.9%
22			128		1	0.01	0.05	0.02	0.01	0.00	**0.24**		4.1%	21.3%	7.8%	3.3%	0.4%	100.0%	0.01	0.02	0.01	0.01	0.00	**0.12**	48.4%	3.7%	8.2%	5.3%	2.5%	0.4%	48.4%
23			130		1	0.01	0.04	0.02	0.01	0.00	**0.22**		3.1%	17.4%	8.0%	2.2%	0.9%	100.0%	0.01	0.02	0.01	0.00	0.00	**0.10**	46.4%	2.7%	7.1%	6.3%	1.8%	0.4%	46.4%
24			132		1	0.01	0.05	0.01	0.01	0.00	**0.25**		2.8%	18.1%	5.6%	2.0%	0.4%	100.0%	0.01	0.02	0.01	0.00	0.00	**0.12**	49.2%	2.0%	7.7%	4.8%	1.6%	0.4%	49.2%
25			134		1	0.01	0.04	0.01	0.01	0.00	**0.24**		3.0%	17.7%	5.5%	2.5%	0.4%	100.0%	0.01	0.02	0.01	0.01	0.00	**0.13**	53.2%	2.5%	7.2%	3.8%	2.1%	0.4%	53.2%
26			136		1	0.01	0.03	0.01	0.01	0.00	**0.19**		5.3%	18.0%	3.2%	2.6%	0.5%	100.0%	0.01	0.02	0.00	0.01	0.00	**0.08**	43.9%	3.7%	7.9%	2.1%	2.6%	0.5%	43.9%
27			138		2	0.02	0.08	0.03	0.01	0.00	**0.41**		5.6%	18.9%	7.8%	2.5%	0.7%	100.0%	0.02	0.03	0.02	0.01	0.00	**0.18**	45.1%	4.2%	8.3%	5.6%	2.0%	0.5%	45.1%
28			139		2	0.03	0.15	0.03	0.01	0.00	**0.57**		4.4%	25.8%	5.5%	0.9%	0.5%	100.0%	0.02	0.07	0.02	0.00	0.00	**0.34**	60.2%	3.2%	11.8%	4.1%	0.7%	0.4%	60.2%
29			140		2	0.02	0.12	0.01	0.01	0.00	**0.59**		3.4%	19.7%	1.3%	2.2%	0.5%	100.0%	0.02	0.05	0.01	0.01	0.00	**0.34**	57.2%	2.5%	8.1%	1.0%	1.7%	0.3%	57.2%
30			141		2	0.02	0.09	0.06	0.02	0.00	**0.41**		4.1%	22.8%	13.3%	5.6%	0.7%	100.0%	0.01	0.04	0.04	0.02	0.00	**0.21**	49.8%	2.7%	9.0%	8.7%	4.6%	0.5%	49.8%
31			146		2	0.01	0.11	0.04	0.01	0.00	**0.56**		2.5%	19.8%	7.3%	1.1%	0.7%	100.0%	0.01	0.05	0.03	0.00	0.00	**0.31**	54.7%	2.0%	8.7%	5.3%	0.7%	0.4%	54.7%
32			147		2	0.02	0.13	0.01	0.01	0.00	**0.54**		4.3%	25.0%	1.7%	1.9%	0.6%	100.0%	0.02	0.06	0.01	0.01	0.00	**0.31**	57.9%	3.0%	10.8%	0.9%	1.7%	0.4%	57.9%
33			148		2	0.02	0.11	0.04	0.02	0.00	**0.48**		4.4%	21.8%	7.7%	4.4%	0.6%	100.0%	0.01	0.04	0.02	0.02	0.00	**0.23**	48.1%	2.7%	8.9%	5.0%	3.7%	0.4%	48.1%
34			152		5	0.06	0.35	0.12	0.02	0.01	**1.46**		4.1%	24.0%	8.0%	1.4%	0.7%	100.0%	0.05	0.16	0.09	0.02	0.01	**0.85**	58.1%	3.2%	11.3%	6.0%	1.1%	0.4%	58.1%
35			153		5	0.07	0.44	0.03	0.00	0.01	**1.36**		4.9%	32.1%	1.8%	0.1%	1.0%	100.0%	0.05	0.23	0.02	0.00	0.01	**0.92**	67.3%	3.8%	16.8%	1.5%	0.1%	0.5%	67.3%
36			154		5	0.06	0.43	0.01	0.01	0.01	**1.49**		3.8%	28.6%	0.7%	0.5%	0.7%	100.0%	0.04	0.22	0.01	0.01	0.01	**1.01**	68.2%	2.7%	15.1%	0.5%	0.4%	0.5%	68.2%
37			155		5	0.07	0.37	0.03	0.04	0.01	**1.39**		5.2%	26.9%	2.2%	2.8%	1.0%	100.0%	0.05	0.17	0.02	0.03	0.01	**0.92**	66.2%	3.2%	12.5%	1.4%	2.3%	0.6%	66.2%
38			156		5	0.06	0.19	0.03	0.12	0.01	**1.07**		5.2%	17.9%	3.1%	11.4%	1.0%	100.0%	0.04	0.08	0.03	0.10	0.01	**0.44**	40.9%	3.9%	7.4%	2.6%	9.7%	0.8%	40.9%
39			162		5	0.05	0.35	0.11	0.02	0.01	**1.43**		3.8%	24.3%	8.0%	1.1%	0.7%	100.0%	0.04	0.17	0.09	0.01	0.01	**0.82**	57.6%	3.0%	11.6%	6.0%	0.9%	0.4%	57.6%
40			163		5	0.05	0.48	0.02	0.01	0.01	**1.49**		3.5%	31.9%	1.5%	0.5%	0.9%	100.0%	0.04	0.27	0.02	0.01	0.01	**1.01**	68.1%	3.0%	18.1%	1.1%	0.4%	0.5%	68.1%
41			164		5	0.05	0.43	0.01	0.01	0.01	**1.35**		3.6%	31.6%	1.0%	1.0%	0.7%	100.0%	0.04	0.22	0.01	0.01	0.01	**0.94**	69.8%	2.8%	16.4%	0.6%	0.8%	0.4%	69.8%
42			165		5	0.08	0.32	0.04	0.06	0.01	**1.40**		5.6%	22.6%	2.6%	4.1%	0.8%	100.0%	0.05	0.15	0.03	0.05	0.01	**0.82**	58.8%	3.5%	10.3%	1.8%	3.4%	0.5%	58.8%
43			0	128	2	0.04	0.14	0.04	0.01	0.01	**0.47**		7.6%	29.3%	8.3%	2.5%	1.3%	100.0%	0.03	0.06	0.03	0.01	0.00	**0.19**	40.1%	5.7%	13.0%	6.2%	1.9%	0.8%	40.1%
44			2	130	2	0.03	0.16	0.03	0.01	0.01	**0.47**		5.5%	34.4%	7.2%	1.9%	1.3%	100.0%	0.02	0.07	0.02	0.01	0.00	**0.23**	48.6%	4.2%	14.9%	5.1%	1.7%	0.6%	48.6%
45			4	132	2	0.02	0.21	0.03	0.02	0.01	**0.54**		3.5%	39.6%	5.9%	3.0%	1.5%	100.0%	0.01	0.10	0.03	0.01	0.01	**0.24**	45.0%	2.2%	17.8%	4.8%	2.2%	0.9%	45.0%
46			6	134	2	0.02	0.19	0.02	0.02	0.01	**0.51**		3.6%	38.4%	4.6%	3.6%	1.6%	100.0%	0.01	0.09	0.02	0.01	0.00	**0.21**	42.0%	2.8%	17.8%	3.4%	2.8%	0.8%	42.0%
47			8	136	2	0.03	0.13	0.01	0.01	0.00	**0.47**		5.9%	26.8%	2.1%	2.7%	0.8%	100.0%	0.02	0.06	0.01	0.01	0.00	**0.23**	48.3%	4.4%	11.6%	2.1%	2.3%	0.6%	48.3%
48			10	138	4	0.06	0.41	0.06	0.02	0.02	**0.93**		6.1%	44.2%	6.7%	2.5%	2.3%	100.0%	0.05	0.20	0.05	0.02	0.01	**0.38**	40.8%	4.8%	21.7%	5.2%	1.9%	1.3%	40.8%
49			11	139	4	0.08	0.49	0.05	0.01	0.02	**0.99**		7.7%	49.7%	5.2%	1.1%	2.2%	100.0%	0.06	0.25	0.03	0.01	0.01	**0.59**	59.9%	6.5%	25.6%	3.4%	0.9%	1.3%	59.9%
50			12	140	4	0.05	0.35	0.03	0.04	0.01	**1.12**		4.2%	30.8%	3.0%	3.1%	1.1%	100.0%	0.03	0.15	0.03	0.03	0.01	**0.64**	56.8%	2.9%	13.1%	2.3%	2.4%	0.6%	56.8%
51			13	141	4	0.08	0.35	0.09	0.03	0.02	**0.87**		8.7%	40.2%	10.6%	3.6%	1.7%	100.0%	0.06	0.17	0.06	0.03	0.01	**0.36**	41.8%	6.9%	19.3%	6.8%	2.9%	1.0%	41.8%
52			18	146	4	0.07	0.44	0.08	0.01	0.02	**1.12**		6.5%	39.4%	6.9%	0.7%	1.7%	100.0%	0.06	0.21	0.06	0.01	0.01	**0.59**	52.6%	5.4%	18.3%	5.2%	0.6%	1.0%	52.6%
53			19	147	4	0.06	0.48	0.02	0.03	0.02	**0.99**		6.0%	48.2%	1.7%	3.2%	2.2%	100.0%	0.04	0.25	0.01	0.03	0.01	**0.56**	55.9%	4.1%	24.8%	1.2%	2.7%	1.3%	55.9%
54			20	148	4	0.05	0.31	0.04	0.04	0.01	**0.80**		6.0%	39.0%	5.4%	4.5%	1.8%	100.0%	0.03	0.14	0.03	0.03	0.01	**0.40**	49.8%	3.9%	17.7%	3.6%	3.8%	1.1%	49.8%
55			24	152	10	0.13	1.19	0.23	0.04	0.05	**2.81**		4.7%	42.3%	8.1%	1.3%	1.8%	100.0%	0.10	0.56	0.15	0.03	0.03	**1.53**	54.6%	3.4%	19.9%	5.4%	1.1%	1.0%	54.6%
56			25	153	10	0.22	1.38	0.11	0.01	0.09	**2.89**		7.6%	47.7%	3.6%	0.3%	3.1%	100.0%	0.17	0.72	0.06	0.01	0.05	**1.65**	56.9%	5.7%	24.7%	1.9%	0.3%	1.8%	56.9%
57			26	154	10	0.25	1.61	0.03	0.02	0.09	**2.73**		9.3%	59.1%	1.2%	0.8%	3.3%	100.0%	0.19	0.91	0.02	0.02	0.06	**1.69**	61.9%	7.1%	33.5%	0.8%	0.7%	2.1%	61.9%
58			27	155	10	0.14	1.13	0.08	0.08	0.04	**2.88**		4.9%	39.1%	2.7%	2.8%	1.5%	100.0%	0.10	0.55	0.05	0.07	0.03	**1.89**	65.5%	3.3%	18.9%	1.7%	2.3%	0.9%	65.5%
59			28	156	10	0.14	0.85	0.06	0.18	0.03	**2.41**		6.0%	35.4%	2.7%	7.5%	1.1%	100.0%	0.11	0.36	0.06	0.15	0.02	**1.13**	46.8%	4.7%	15.0%	2.3%	6.1%	0.7%	46.8%
60			34	162	10	0.18	1.30	0.22	0.03	0.06	**2.87**		6.4%	45.1%	7.7%	1.2%	2.2%	100.0%	0.14	0.58	0.16	0.03	0.04	**1.52**	52.8%	4.8%	20.3%	5.5%	1.0%	1.3%	52.8%
61			35	163	10	0.29	1.56	0.07	0.02	0.10	**2.90**		10.0%	53.6%	2.5%	0.7%	3.5%	100.0%	0.24	0.88	0.05	0.01	0.06	**1.63**	56.0%	8.3%	30.4%	1.8%	0.5%	2.2%	56.0%
62			36	164	10	0.14	1.12	0.03	0.03	0.06	**2.75**		5.1%	40.8%	1.0%	1.0%	2.1%	100.0%	0.10	0.59	0.02	0.02	0.04	**1.74**	63.2%	3.5%	21.3%	0.7%	0.8%	1.3%	63.2%
63			37	165	10	0.19	0.98	0.09	0.14	0.03	**2.86**		6.7%	34.3%	3.1%	4.9%	1.1%	100.0%	0.12	0.43	0.06	0.11	0.02	**1.59**	55.5%	4.3%	15.0%	1.9%	4.0%	0.6%	55.5%

- J–patch Mid CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							7.2%	73.5%	14.5%	10.1%	3.7%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.3%	5.5%	44.1%	9.1%	8.5%	2.2%	70.3%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.06	0.01	0.00	0.00	0.16		6.3%	36.3%	7.5%	1.3%	1.3%	100.0%	0.01	0.03	0.01	0.00	0.00	0.06	38.1%	5.0%	18.1%	5.6%	0.6%	0.6%	38.1%
2			2		1	0.01	0.10	0.01	0.00	0.00	0.20		3.5%	50.3%	4.0%	0.5%	1.5%	100.0%	0.01	0.05	0.01	0.00	0.00	0.10	51.8%	3.0%	24.6%	3.0%	0.5%	1.0%	51.8%
3			4		1	0.01	0.14	0.01	0.01	0.01	0.24		3.3%	56.8%	5.0%	2.5%	2.1%	100.0%	0.01	0.07	0.01	0.00	0.00	0.13	51.9%	2.1%	27.4%	3.3%	1.7%	1.2%	51.9%
4			6		1	0.00	0.12	0.01	0.00	0.00	0.21		1.9%	58.0%	3.8%	1.9%	1.9%	100.0%	0.00	0.06	0.01	0.00	0.00	0.11	50.9%	1.4%	28.8%	2.8%	1.4%	0.9%	50.9%
5			8		1	0.01	0.08	0.00	0.00	0.00	0.20		2.5%	38.1%	2.0%	1.5%	1.5%	100.0%	0.00	0.03	0.00	0.00	0.00	0.09	43.1%	2.0%	17.3%	1.5%	1.5%	1.0%	43.1%
6			10		2	0.01	0.27	0.04	0.00	0.01	0.49		1.6%	55.2%	7.8%	0.8%	2.2%	100.0%	0.01	0.15	0.03	0.00	0.01	0.25	50.1%	1.4%	29.7%	5.1%	0.6%	1.2%	50.1%
7			11		2	0.02	0.40	0.01	0.00	0.02	0.60		2.7%	66.4%	1.5%	0.7%	2.5%	100.0%	0.01	0.21	0.01	0.00	0.01	0.37	62.5%	2.2%	35.1%	0.8%	0.5%	1.3%	62.5%
8			12		2	0.02	0.17	0.02	0.01	0.01	0.41		3.9%	40.5%	4.4%	2.5%	1.2%	100.0%	0.01	0.08	0.01	0.01	0.00	0.21	50.4%	2.5%	18.9%	2.9%	2.0%	0.7%	50.4%
9			13		2	0.03	0.23	0.01	0.00	0.01	0.40		7.2%	55.7%	2.5%	1.0%	2.5%	100.0%	0.02	0.12	0.01	0.00	0.01	0.20	50.5%	5.4%	30.7%	1.5%	0.7%	1.2%	50.5%
10			18		2	0.02	0.24	0.02	0.00	0.01	0.54		4.1%	45.1%	3.9%	0.6%	1.5%	100.0%	0.02	0.12	0.02	0.00	0.01	0.24	44.7%	3.4%	21.6%	3.2%	0.4%	0.9%	44.7%
11			19		2	0.01	0.40	0.00	0.01	0.02	0.63		1.8%	63.9%	0.6%	1.1%	2.4%	100.0%	0.01	0.20	0.00	0.01	0.01	0.36	57.3%	1.1%	32.3%	0.5%	0.8%	1.3%	57.3%
12			20		2	0.01	0.21	0.01	0.01	0.01	0.46		2.2%	45.7%	1.1%	1.3%	1.7%	100.0%	0.01	0.10	0.00	0.01	0.00	0.18	39.8%	1.7%	22.5%	0.9%	1.1%	0.9%	39.8%
13			24		5	0.02	0.53	0.07	0.01	0.02	1.16		1.8%	46.1%	6.4%	0.7%	1.9%	100.0%	0.02	0.25	0.05	0.01	0.01	0.65	56.0%	1.3%	21.2%	4.1%	0.5%	1.0%	56.0%
14			25		5	0.06	0.64	0.04	0.01	0.03	1.08		5.1%	59.8%	4.0%	0.5%	3.1%	100.0%	0.04	0.37	0.03	0.01	0.02	0.64	59.3%	3.8%	34.4%	2.6%	0.5%	1.8%	59.3%
15			26		5	0.06	1.10	0.02	0.01	0.06	1.50		3.9%	73.5%	1.3%	0.5%	3.7%	100.0%	0.04	0.66	0.01	0.01	0.03	1.01	67.6%	2.9%	44.1%	0.7%	0.4%	2.2%	67.6%
16			27		5	0.03	0.45	0.01	0.01	0.02	0.89		3.8%	50.0%	1.3%	1.6%	2.1%	100.0%	0.03	0.23	0.01	0.01	0.01	0.50	55.7%	2.9%	26.2%	0.8%	1.2%	1.3%	55.7%
17			28		5	0.03	0.45	0.02	0.03	0.01	1.18		2.8%	38.5%	1.5%	2.6%	1.2%	100.0%	0.03	0.19	0.01	0.02	0.01	0.57	48.8%	2.5%	16.5%	1.0%	2.0%	0.8%	48.8%
18			34		5	0.05	0.64	0.05	0.01	0.03	1.12		4.4%	56.9%	4.5%	0.8%	2.6%	100.0%	0.04	0.32	0.03	0.01	0.02	0.67	59.5%	3.2%	28.9%	2.9%	0.7%	1.4%	59.5%
19			35		5	0.07	0.99	0.03	0.01	0.05	1.50		4.5%	66.2%	2.1%	0.3%	3.5%	100.0%	0.06	0.59	0.02	0.00	0.03	0.91	60.6%	3.7%	39.2%	1.6%	0.3%	2.0%	60.6%
20			36		5	0.03	0.51	0.01	0.01	0.03	0.89		3.7%	57.0%	1.3%	1.5%	3.4%	100.0%	0.02	0.31	0.01	0.01	0.02	0.44	49.3%	2.7%	34.3%	0.7%	1.1%	1.9%	49.3%
21			37		5	0.03	0.48	0.02	0.03	0.02	1.18		2.9%	40.3%	1.3%	2.4%	1.3%	100.0%	0.03	0.21	0.01	0.02	0.01	0.60	50.8%	2.4%	17.3%	0.9%	1.9%	0.8%	50.8%
22			128		1	0.01	0.06	0.02	0.01	0.00	0.28		3.9%	21.9%	8.6%	2.9%	0.7%	100.0%	0.01	0.03	0.02	0.01	0.00	0.14	49.5%	3.2%	9.0%	5.7%	2.5%	0.4%	49.5%
23			130		1	0.01	0.04	0.02	0.01	0.00	0.24		3.8%	16.9%	8.1%	2.5%	0.8%	100.0%	0.01	0.02	0.01	0.01	0.00	0.11	45.8%	3.0%	6.8%	5.5%	2.1%	0.4%	45.8%
24			132		1	0.01	0.05	0.02	0.01	0.00	0.28		2.1%	16.7%	6.0%	2.1%	0.7%	100.0%	0.01	0.02	0.01	0.01	0.00	0.14	48.0%	1.8%	6.8%	4.6%	1.8%	0.4%	48.0%
25			134		1	0.01	0.05	0.01	0.01	0.00	0.27		2.6%	17.3%	4.4%	2.6%	0.4%	100.0%	0.01	0.02	0.01	0.01	0.00	0.14	50.4%	2.2%	7.4%	3.3%	1.8%	0.4%	50.4%
26			136		1	0.01	0.04	0.01	0.01	0.00	0.23		3.9%	17.5%	3.1%	3.1%	0.4%	100.0%	0.01	0.02	0.01	0.01	0.00	0.10	43.0%	2.6%	7.5%	2.2%	2.6%	0.4%	43.0%
27			138		2	0.02	0.10	0.03	0.01	0.00	0.49		3.1%	20.0%	6.3%	2.4%	0.6%	100.0%	0.01	0.04	0.02	0.01	0.00	0.22	45.7%	2.2%	8.6%	4.9%	2.0%	0.4%	45.7%
28			139		2	0.03	0.17	0.03	0.00	0.00	0.62		4.7%	26.7%	4.4%	0.5%	0.6%	100.0%	0.02	0.07	0.02	0.00	0.00	0.37	59.8%	3.7%	12.0%	3.2%	0.3%	0.3%	59.8%
29			140		2	0.02	0.15	0.01	0.01	0.00	0.70		2.9%	21.2%	1.4%	1.9%	0.3%	100.0%	0.02	0.06	0.01	0.01	0.00	0.40	56.8%	2.3%	9.1%	1.0%	1.4%	0.3%	56.8%
30			141		2	0.02	0.09	0.06	0.03	0.01	0.43		4.9%	21.3%	14.5%	6.3%	1.2%	100.0%	0.01	0.04	0.04	0.02	0.00	0.22	50.7%	2.8%	8.6%	9.1%	5.1%	0.9%	50.7%
31			146		2	0.01	0.12	0.04	0.01	0.00	0.62		1.8%	19.4%	6.3%	0.8%	0.6%	100.0%	0.01	0.05	0.03	0.00	0.00	0.33	53.8%	1.3%	8.6%	4.9%	0.6%	0.5%	53.8%
32			147		2	0.02	0.14	0.01	0.01	0.00	0.58		4.0%	24.0%	2.4%	2.1%	0.5%	100.0%	0.02	0.06	0.01	0.01	0.00	0.33	57.1%	3.1%	9.9%	1.6%	1.7%	0.3%	57.1%
33			148		2	0.03	0.11	0.04	0.03	0.00	0.52		4.9%	21.0%	8.5%	5.0%	0.8%	100.0%	0.02	0.04	0.03	0.02	0.00	0.26	50.9%	2.9%	8.5%	5.6%	4.3%	0.6%	50.9%
34			152		5	0.05	0.42	0.12	0.01	0.01	1.61		2.8%	26.0%	7.1%	0.9%	0.9%	100.0%	0.04	0.19	0.08	0.01	0.01	0.94	58.4%	2.3%	11.9%	5.1%	0.7%	0.6%	58.4%
35			153		5	0.05	0.53	0.04	0.00	0.02	1.55		3.4%	34.4%	2.6%	0.1%	1.1%	100.0%	0.04	0.29	0.03	0.00	0.01	1.06	68.7%	2.8%	18.7%	1.7%	0.1%	0.6%	68.7%
36			154		5	0.06	0.45	0.01	0.01	0.01	1.60		3.7%	28.1%	0.7%	0.4%	0.4%	100.0%	0.05	0.24	0.01	0.01	0.00	1.10	68.6%	2.9%	15.0%	0.4%	0.3%	0.3%	68.6%
37			155		5	0.07	0.43	0.04	0.04	0.01	1.59		4.2%	27.1%	2.2%	2.3%	0.8%	100.0%	0.04	0.21	0.03	0.03	0.01	1.07	67.5%	2.7%	13.2%	1.6%	1.8%	0.4%	67.5%
38			156		5	0.07	0.29	0.03	0.13	0.02	1.28		5.8%	23.1%	2.6%	10.1%	1.2%	100.0%	0.06	0.12	0.03	0.11	0.01	0.54	42.5%	4.5%	9.5%	2.0%	8.5%	1.0%	42.5%
39			162		5	0.05	0.42	0.11	0.01	0.01	1.60		2.9%	26.3%	6.8%	0.8%	0.8%	100.0%	0.04	0.20	0.08	0.01	0.01	0.93	58.0%	2.4%	12.5%	5.0%	0.6%	0.6%	58.0%
40			163		5	0.05	0.49	0.03	0.01	0.01	1.61		2.8%	30.4%	1.7%	0.4%	0.7%	100.0%	0.03	0.28	0.02	0.01	0.01	1.11	69.0%	2.1%	17.1%	1.1%	0.4%	0.4%	69.0%
41			164		5	0.06	0.45	0.02	0.02	0.01	1.51		3.6%	29.5%	1.1%	1.1%	0.4%	100.0%	0.04	0.23	0.01	0.01	0.00	1.06	70.3%	2.4%	15.1%	0.7%	0.8%	0.3%	70.3%
42			165		5	0.07	0.38	0.04	0.05	0.01	1.59		4.6%	23.9%	2.8%	3.4%	0.6%	100.0%	0.06	0.18	0.03	0.04	0.01	0.94	59.0%	3.5%	11.4%	1.8%	2.8%	0.4%	59.0%
43			0	128	2	0.03	0.14	0.04	0.01	0.01	0.50		6.3%	28.0%	8.5%	2.8%	1.2%	100.0%	0.02	0.06	0.03	0.01	0.00	0.21	42.1%	4.8%	12.1%	6.7%	2.2%	0.6%	42.1%
44			2	130	2	0.03	0.20	0.04	0.01	0.01	0.53		4.7%	38.2%	6.6%	1.7%	1.1%	100.0%	0.02	0.09	0.02	0.01	0.00	0.29	53.4%	3.9%	16.9%	4.3%	1.5%	0.7%	53.4%
45			4	132	2	0.02	0.25	0.03	0.02	0.01	0.62		3.7%	41.0%	5.5%	2.9%	1.5%	100.0%	0.01	0.11	0.03	0.01	0.01	0.30	48.0%	2.1%	18.4%	4.2%	2.3%	0.8%	48.0%
46			6	134	2	0.01	0.24	0.02	0.02	0.01	0.56		2.5%	42.2%	3.8%	3.4%	1.4%	100.0%	0.01	0.11	0.02	0.02	0.00	0.25	45.3%	2.0%	20.0%	3.0%	2.7%	0.7%	45.3%
47			8	136	2	0.02	0.16	0.01	0.02	0.01	0.53		3.2%	30.6%	2.6%	2.8%	0.9%	100.0%	0.01	0.07	0.01	0.01	0.00	0.23	43.0%	2.3%	13.3%	2.1%	2.3%	0.6%	43.0%
48			10	138	4	0.04	0.53	0.08	0.03	0.02	1.11		3.6%	48.1%	6.8%	2.3%	1.8%	100.0%	0.03	0.26	0.05	0.02	0.01	0.51	45.7%	2.8%	23.4%	4.4%	1.8%	1.0%	45.7%
49			11	139	4	0.07	0.64	0.04	0.01	0.03	1.26		5.5%	51.2%	3.4%	0.8%	2.1%	100.0%	0.05	0.33	0.03	0.01	0.02	0.82	65.0%	4.3%	26.6%	2.2%	0.6%	1.2%	65.0%
50			12	140	4	0.06	0.42	0.03	0.04	0.01	1.25		4.4%	34.0%	2.7%	3.1%	1.0%	100.0%	0.04	0.18	0.03	0.03	0.01	0.70	55.8%	2.8%	14.8%	2.0%	2.4%	0.6%	55.8%
51			13	141	4	0.06	0.43	0.10	0.04	0.02	0.98		6.1%	43.7%	10.5%	4.1%	1.5%	100.0%	0.05	0.21	0.07	0.03	0.01	0.45	46.1%	4.7%	21.2%	6.8%	3.4%	0.9%	46.1%
52			18	146	4	0.06	0.50	0.08	0.01	0.02	1.26		4.6%	39.6%	6.4%	0.9%	1.5%	100.0%	0.05	0.23	0.06	0.01	0.01	0.66	52.0%	3.7%	17.9%	4.9%	0.7%	0.9%	52.0%
53			19	147	4	0.05	0.58	0.02	0.03	0.02	1.17		4.5%	49.3%	1.8%	2.2%	1.8%	100.0%	0.04	0.31	0.02	0.02	0.01	0.68	57.9%	3.3%	26.3%	1.3%	1.8%	1.1%	57.9%
54			20	148	4	0.06	0.33	0.05	0.04	0.01	0.87		6.3%	37.7%	5.8%	4.6%	1.5%	100.0%	0.03	0.18	0.03	0.03	0.01	0.42	48.7%	3.9%	20.7%	3.8%	3.8%	0.9%	48.7%
55			24	152	10	0.11	1.43	0.26	0.03	0.06	3.15		3.6%	45.4%	8.3%	0.9%	2.0%	100.0%	0.09	0.67	0.18	0.02	0.04	1.77	56.2%	2.9%	21.2%	5.7%	0.8%	1.1%	56.2%
56			25	153	10	0.21	1.48	0.14	0.01	0.09	3.02		6.8%	49.0%	4.6%	0.4%	3.0%	100.0%	0.17	0.81	0.09	0.01	0.05	1.70	56.4%	5.5%	26.7%	2.8%	0.3%	1.8%	56.4%
57			26	154	10	0.22	2.12	0.05	0.02	0.10	3.42		6.5%	62.0%	1.4%	0.6%	2.8%	100.0%	0.17	1.20	0.03	0.02	0.06	2.34	68.4%	5.0%	35.2%	0.8%	0.5%	1.6%	68.4%
58			27	155	10	0.12	1.21	0.08	0.08	0.04	3.03		3.9%	40.0%	2.7%	2.5%	1.2%	100.0%	0.08	0.61	0.06	0.06	0.02	1.92	63.4%	2.8%	20.1%	1.8%	2.0%	0.8%	63.4%
59			28	156	10	0.16	1.16	0.07	0.21	0.04	2.98		5.5%	39.0%	2.4%	6.9%	1.2%	100.0%	0.13	0.50	0.06	0.16	0.02	1.46	49.0%	4.4%	16.9%	1.8%	5.5%	0.6%	49.0%
60			34	162	10	0.18	1.51	0.19	0.03	0.07	3.14		5.6%	48.2%	6.1%	0.9%	2.1%	100.0%	0.14	0.72	0.13	0.02	0.04	1.69	53.8%	4.4%	22.8%	4.2%	0.7%	1.2%	53.8%
61			35	163	10	0.20	1.82	0.09	0.02	0.10	3.29		6.2%	55.4%	2.7%	0.5%	3.0%	100.0%	0.17	1.02	0.06	0.01	0.06	2.10	63.9%	5.2%	31.0%	1.9%	0.4%	1.7%	63.9%
62			36	164	10	0.16	1.33	0.04	0.04	0.06	2.71		5.8%	49.1%	1.3%	1.4%	2.1%	100.0%	0.11	0.73	0.02	0.03	0.03	1.67	61.4%	4.0%	27.0%	0.9%	1.1%	1.2%	61.4%
63			37	165	10	0.19	1.19	0.09	0.14	0.04	3.27		5.9%	36.5%	2.8%	4.4%	1.1%	100.0%	0.13	0.53	0.06	0.11	0.02	1.84	56.2%	3.9%	16.2%	2.0%	3.4%	0.6%	56.2%

- J–patch High CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							6.6%	72.2%	10.9%	8.5%	3.4%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.8%	5.1%	43.0%	7.3%	7.0%	2.0%	71.8%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.09	0.01	0.00	0.00	0.21		4.4%	41.7%	3.9%	1.0%	1.0%	100.0%	0.01	0.04	0.01	0.00	0.00	0.09	41.7%	3.4%	20.4%	2.9%	0.5%	0.5%	41.7%
2			2		1	0.01	0.10	0.01	0.00	0.00	0.20		5.4%	51.0%	4.5%	0.5%	1.5%	100.0%	0.01	0.05	0.01	0.00	0.00	0.11	55.0%	4.0%	25.7%	3.5%	0.5%	1.0%	55.0%
3			4		1	0.01	0.16	0.01	0.01	0.01	0.29		3.2%	56.8%	3.9%	2.1%	1.8%	100.0%	0.01	0.08	0.01	0.01	0.00	0.15	53.3%	1.8%	26.7%	2.5%	1.8%	1.1%	53.3%
4			6		1	0.00	0.16	0.01	0.00	0.01	0.26		1.5%	59.5%	3.4%	0.8%	1.9%	100.0%	0.00	0.07	0.01	0.00	0.00	0.15	56.9%	1.1%	27.1%	2.7%	0.8%	0.8%	56.9%
5			8		1	0.01	0.07	0.01	0.00	0.00	0.19		2.6%	36.8%	2.6%	2.1%	1.1%	100.0%	0.00	0.03	0.00	0.00	0.00	0.09	48.9%	2.1%	16.3%	2.1%	1.6%	0.5%	48.9%
6			10		2	0.01	0.35	0.04	0.00	0.01	0.59		1.0%	59.9%	5.9%	0.5%	2.2%	100.0%	0.01	0.18	0.03	0.00	0.01	0.34	57.4%	0.8%	31.1%	4.4%	0.5%	1.2%	57.4%
7			11		2	0.01	0.43	0.01	0.00	0.02	0.65		2.0%	65.7%	1.4%	0.5%	2.5%	100.0%	0.01	0.22	0.01	0.00	0.01	0.41	62.8%	1.5%	34.3%	1.1%	0.3%	1.4%	62.8%
8			12		2	0.02	0.19	0.02	0.01	0.01	0.43		4.7%	45.2%	4.2%	2.6%	1.4%	100.0%	0.01	0.10	0.01	0.01	0.00	0.23	53.2%	2.8%	22.2%	3.0%	2.1%	0.7%	53.2%
9			13		2	0.02	0.27	0.01	0.01	0.01	0.49		4.9%	55.9%	1.6%	1.0%	2.0%	100.0%	0.02	0.15	0.01	0.00	0.01	0.27	54.3%	3.9%	30.2%	1.2%	0.8%	1.2%	54.3%
10			18		2	0.02	0.30	0.02	0.00	0.01	0.62		2.4%	48.6%	2.9%	0.3%	1.1%	100.0%	0.01	0.15	0.01	0.00	0.00	0.32	50.5%	2.1%	23.2%	2.2%	0.3%	0.6%	50.5%
11			19		2	0.01	0.49	0.00	0.01	0.02	0.76		1.6%	64.4%	0.4%	0.9%	2.2%	100.0%	0.01	0.24	0.00	0.01	0.01	0.46	60.3%	0.9%	31.0%	0.3%	0.7%	1.2%	60.3%
12			20		2	0.01	0.23	0.01	0.01	0.01	0.49		1.8%	46.7%	1.0%	1.4%	1.4%	100.0%	0.01	0.10	0.00	0.01	0.00	0.22	44.5%	1.6%	21.2%	0.8%	1.0%	0.8%	44.5%
13			24		5	0.02	0.59	0.08	0.01	0.02	1.25		1.4%	47.1%	6.6%	0.4%	1.6%	100.0%	0.01	0.27	0.06	0.00	0.01	0.72	57.4%	1.0%	21.9%	4.6%	0.3%	1.0%	57.4%
14			25		5	0.04	0.73	0.04	0.01	0.03	1.20		3.4%	61.0%	3.5%	0.6%	2.7%	100.0%	0.03	0.43	0.03	0.01	0.02	0.71	59.2%	2.5%	35.9%	2.7%	0.5%	1.6%	59.2%
15			26		5	0.04	1.36	0.02	0.01	0.06	1.88		1.9%	72.2%	0.9%	0.3%	3.4%	100.0%	0.03	0.81	0.01	0.01	0.04	1.28	67.9%	1.5%	43.0%	0.6%	0.3%	2.0%	67.9%
16			27		5	0.04	0.36	0.01	0.02	0.02	0.79		5.0%	46.1%	0.6%	1.9%	1.9%	100.0%	0.03	0.19	0.00	0.01	0.01	0.39	49.6%	3.8%	23.9%	0.4%	1.5%	1.1%	49.6%
17			28		5	0.05	0.44	0.02	0.03	0.02	1.18		4.2%	37.5%	1.4%	2.7%	1.3%	100.0%	0.03	0.20	0.01	0.03	0.01	0.63	53.3%	2.5%	16.7%	1.1%	2.1%	0.8%	53.3%
18			34		5	0.04	0.71	0.04	0.01	0.03	1.18		3.1%	60.5%	3.7%	0.8%	2.3%	100.0%	0.03	0.37	0.03	0.01	0.02	0.74	62.4%	2.4%	31.4%	2.9%	0.6%	1.4%	62.4%
19			35		5	0.07	1.13	0.02	0.00	0.05	1.70		3.9%	66.2%	1.3%	0.2%	2.9%	100.0%	0.05	0.69	0.02	0.00	0.03	1.07	62.9%	3.1%	40.4%	0.9%	0.2%	1.8%	62.9%
20			36		5	0.03	0.68	0.01	0.01	0.04	1.06		3.1%	64.4%	0.9%	1.0%	3.4%	100.0%	0.03	0.39	0.01	0.01	0.02	0.62	58.6%	2.4%	36.8%	0.7%	0.9%	2.0%	58.6%
21			37		5	0.05	0.44	0.01	0.03	0.02	1.14		3.9%	38.9%	1.1%	2.5%	1.3%	100.0%	0.03	0.20	0.01	0.02	0.01	0.63	54.9%	2.4%	17.4%	1.0%	2.0%	0.8%	54.9%
22			128		1	0.01	0.06	0.02	0.01	0.00	0.30		3.3%	21.4%	7.7%	2.3%	0.7%	100.0%	0.01	0.02	0.01	0.01	0.00	0.15	49.5%	2.7%	8.0%	4.7%	2.0%	0.3%	49.5%
23			130		1	0.01	0.05	0.02	0.01	0.00	0.27		3.7%	18.1%	7.4%	2.6%	0.7%	100.0%	0.01	0.02	0.02	0.01	0.00	0.12	45.6%	3.0%	7.8%	5.6%	2.2%	0.4%	45.6%
24			132		1	0.01	0.06	0.02	0.01	0.00	0.30		1.7%	18.2%	5.6%	2.3%	0.7%	100.0%	0.00	0.02	0.01	0.01	0.00	0.14	46.5%	1.3%	7.9%	4.3%	2.0%	0.3%	46.5%
25			134		1	0.01	0.06	0.01	0.01	0.00	0.31		2.5%	17.5%	3.2%	2.5%	0.3%	100.0%	0.01	0.02	0.01	0.01	0.00	0.15	47.1%	1.9%	7.3%	2.5%	1.9%	0.3%	47.1%
26			136		1	0.01	0.05	0.01	0.01	0.00	0.26		3.8%	17.6%	3.1%	3.1%	0.4%	100.0%	0.01	0.02	0.01	0.01	0.00	0.12	44.4%	3.1%	7.3%	1.9%	2.3%	0.4%	44.4%
27			138		2	0.01	0.11	0.03	0.01	0.00	0.58		2.1%	19.7%	5.0%	2.4%	0.5%	100.0%	0.01	0.05	0.02	0.01	0.00	0.29	49.7%	1.7%	8.1%	4.0%	1.9%	0.3%	49.7%
28			139		2	0.03	0.18	0.03	0.00	0.00	0.68		3.7%	26.9%	3.8%	0.3%	0.6%	100.0%	0.02	0.08	0.02	0.00	0.00	0.40	58.9%	2.8%	11.2%	2.8%	0.3%	0.4%	58.9%
29			140		2	0.02	0.17	0.01	0.02	0.00	0.77		2.3%	21.4%	1.2%	2.1%	0.3%	100.0%	0.01	0.07	0.01	0.01	0.00	0.44	57.3%	1.8%	9.2%	0.9%	1.7%	0.3%	57.3%
30			141		2	0.02	0.10	0.05	0.03	0.01	0.47		4.1%	20.3%	10.9%	5.6%	1.3%	100.0%	0.02	0.04	0.03	0.02	0.00	0.24	51.8%	3.2%	8.4%	7.3%	4.5%	0.6%	51.8%
31			146		2	0.01	0.15	0.04	0.01	0.01	0.68		1.9%	21.8%	5.5%	1.2%	0.7%	100.0%	0.01	0.07	0.03	0.01	0.00	0.37	54.2%	1.2%	9.6%	4.4%	1.0%	0.4%	54.2%
32			147		2	0.02	0.16	0.01	0.02	0.00	0.66		2.9%	25.0%	2.1%	2.4%	0.5%	100.0%	0.01	0.07	0.01	0.01	0.00	0.38	58.0%	2.1%	10.5%	1.4%	2.0%	0.3%	58.0%
33			148		2	0.02	0.12	0.03	0.03	0.00	0.58		3.7%	21.4%	5.9%	4.7%	0.7%	100.0%	0.01	0.05	0.03	0.02	0.00	0.31	53.2%	2.1%	8.5%	4.3%	3.8%	0.5%	53.2%
34			152		5	0.04	0.54	0.11	0.01	0.01	1.77		2.4%	30.3%	6.2%	0.7%	0.8%	100.0%	0.03	0.26	0.08	0.01	0.01	1.06	59.8%	1.9%	14.6%	4.4%	0.6%	0.5%	59.8%
35			153		5	0.06	0.60	0.04	0.00	0.02	1.67		3.5%	36.2%	2.6%	0.1%	1.1%	100.0%	0.05	0.32	0.04	0.00	0.01	1.17	70.2%	2.9%	19.4%	2.2%	0.1%	0.7%	70.2%
36			154		5	0.05	0.53	0.01	0.01	0.01	1.66		2.8%	31.6%	0.8%	0.4%	0.4%	100.0%	0.04	0.29	0.01	0.01	0.00	1.16	69.8%	2.2%	17.4%	0.5%	0.4%	0.2%	69.8%
37			155		5	0.05	0.50	0.03	0.03	0.01	1.80		2.8%	27.5%	1.7%	1.6%	0.5%	100.0%	0.03	0.24	0.02	0.02	0.01	1.22	67.9%	1.9%	13.6%	1.2%	1.3%	0.3%	67.9%
38			156		5	0.08	0.37	0.03	0.13	0.01	1.48		5.6%	25.1%	2.3%	8.5%	0.9%	100.0%	0.07	0.16	0.03	0.10	0.01	0.68	45.9%	4.4%	10.9%	1.8%	7.0%	0.7%	45.9%
39			162		5	0.05	0.54	0.10	0.01	0.01	1.77		2.8%	30.6%	5.5%	0.6%	0.8%	100.0%	0.04	0.28	0.07	0.01	0.01	1.07	60.3%	2.3%	15.6%	4.2%	0.5%	0.5%	60.3%
40			163		5	0.05	0.54	0.03	0.01	0.01	1.68		3.2%	32.0%	1.8%	0.5%	0.8%	100.0%	0.04	0.30	0.02	0.01	0.01	1.18	70.1%	2.3%	17.8%	1.4%	0.4%	0.5%	70.1%
41			164		5	0.06	0.51	0.02	0.02	0.01	1.63		3.4%	31.4%	1.0%	1.4%	0.4%	100.0%	0.04	0.27	0.01	0.02	0.00	1.17	71.8%	2.3%	16.7%	0.8%	1.2%	0.2%	71.8%
42			165		5	0.07	0.48	0.03	0.04	0.01	1.84		3.9%	26.0%	1.8%	2.4%	0.5%	100.0%	0.05	0.23	0.02	0.04	0.01	1.10	59.5%	2.9%	12.5%	1.2%	2.0%	0.3%	59.5%
43			0	128	2	0.03	0.17	0.04	0.01	0.01	0.55		4.6%	31.5%	8.0%	2.2%	1.3%	100.0%	0.02	0.08	0.03	0.01	0.00	0.25	46.3%	3.3%	14.6%	6.2%	1.6%	0.7%	46.3%
44			2	130	2	0.03	0.22	0.04	0.01	0.01	0.55		5.3%	39.5%	8.0%	2.0%	1.1%	100.0%	0.02	0.10	0.03	0.01	0.00	0.31	55.6%	4.2%	17.6%	5.6%	1.6%	0.5%	55.6%
45			4	132	2	0.02	0.27	0.03	0.02	0.01	0.67		3.4%	40.2%	4.8%	2.2%	1.3%	100.0%	0.01	0.12	0.02	0.01	0.01	0.32	48.4%	1.9%	18.2%	3.6%	1.8%	0.7%	48.4%
46			6	134	2	0.01	0.28	0.02	0.01	0.01	0.64		2.2%	43.8%	3.3%	1.9%	1.4%	100.0%	0.01	0.13	0.02	0.01	0.01	0.32	49.5%	1.6%	19.4%	2.5%	1.4%	0.8%	49.5%
47			8	136	2	0.01	0.16	0.02	0.02	0.00	0.55		2.5%	28.8%	2.9%	2.9%	0.7%	100.0%	0.01	0.07	0.01	0.01	0.00	0.25	46.0%	1.8%	12.1%	2.0%	2.2%	0.5%	46.0%
48			10	138	4	0.03	0.64	0.08	0.02	0.02	1.29		2.5%	49.3%	6.1%	1.2%	1.7%	100.0%	0.03	0.30	0.05	0.01	0.01	0.64	49.9%	2.1%	22.9%	4.1%	1.0%	0.9%	49.9%
49			11	139	4	0.07	0.68	0.04	0.01	0.03	1.36		5.0%	49.6%	3.2%	0.6%	1.8%	100.0%	0.05	0.34	0.04	0.01	0.01	0.88	64.8%	4.0%	25.1%	2.6%	0.5%	1.0%	64.8%
50			12	140	4	0.06	0.48	0.03	0.04	0.01	1.31		4.3%	36.4%	2.5%	2.7%	1.1%	100.0%	0.04	0.21	0.02	0.03	0.01	0.74	56.4%	2.8%	16.0%	1.8%	2.2%	0.6%	56.4%
51			13	141	4	0.05	0.49	0.07	0.04	0.02	1.09		4.6%	44.8%	6.5%	3.8%	1.6%	100.0%	0.04	0.23	0.05	0.03	0.01	0.52	47.5%	3.2%	21.3%	4.3%	3.0%	0.9%	47.5%
52			18	146	4	0.04	0.57	0.08	0.01	0.02	1.42		2.8%	40.3%	5.4%	0.8%	1.3%	100.0%	0.03	0.25	0.06	0.01	0.01	0.75	52.7%	2.3%	17.6%	4.2%	0.6%	0.7%	52.7%
53			19	147	4	0.04	0.65	0.02	0.02	0.02	1.32		3.0%	48.9%	1.4%	1.7%	1.7%	100.0%	0.03	0.33	0.01	0.02	0.01	0.78	59.0%	2.3%	25.0%	1.0%	1.4%	1.0%	59.0%
54			20	148	4	0.04	0.37	0.05	0.04	0.01	0.99		4.2%	37.5%	4.9%	3.5%	1.2%	100.0%	0.03	0.19	0.03	0.03	0.01	0.53	53.6%	2.5%	18.9%	3.4%	3.0%	0.7%	53.6%
55			24	152	10	0.10	1.71	0.29	0.03	0.06	3.56		2.8%	48.2%	8.0%	0.8%	1.7%	100.0%	0.08	0.83	0.20	0.02	0.04	2.08	58.5%	2.2%	23.2%	5.7%	0.6%	1.0%	58.5%
56			25	153	10	0.19	1.58	0.13	0.01	0.09	3.03		6.2%	52.1%	4.2%	0.5%	2.8%	100.0%	0.15	0.88	0.10	0.01	0.05	1.91	63.0%	4.9%	29.0%	3.2%	0.4%	1.7%	63.0%
57			26	154	10	0.16	2.29	0.05	0.02	0.10	3.74		4.2%	61.2%	1.2%	0.5%	2.7%	100.0%	0.12	1.27	0.03	0.02	0.06	2.59	69.4%	3.1%	34.1%	0.7%	0.4%	1.6%	69.4%
58			27	155	10	0.11	1.23	0.05	0.06	0.03	3.06		3.4%	40.3%	1.6%	2.1%	1.1%	100.0%	0.07	0.61	0.04	0.05	0.02	1.99	65.1%	2.4%	20.0%	1.2%	1.7%	0.7%	65.1%
59			28	156	10	0.18	1.27	0.08	0.17	0.04	3.27		5.5%	38.7%	2.3%	5.2%	1.1%	100.0%	0.14	0.57	0.06	0.14	0.02	1.75	53.6%	4.4%	17.3%	1.8%	4.2%	0.7%	53.6%
60			34	162	10	0.15	1.74	0.20	0.02	0.06	3.39		4.5%	51.3%	5.8%	0.6%	1.9%	100.0%	0.12	0.83	0.15	0.02	0.04	1.92	56.7%	3.5%	24.4%	4.4%	0.5%	1.1%	56.7%
61			35	163	10	0.23	1.96	0.07	0.02	0.10	3.49		6.6%	56.2%	2.1%	0.5%	2.8%	100.0%	0.18	1.10	0.06	0.02	0.06	2.36	67.7%	5.1%	31.6%	1.7%	0.4%	1.6%	67.7%
62			36	164	10	0.17	1.57	0.03	0.03	0.06	2.85		5.8%	55.2%	1.1%	1.2%	2.2%	100.0%	0.12	0.86	0.02	0.03	0.04	2.00	70.2%	4.2%	30.1%	0.8%	1.0%	1.3%	70.2%
63			37	165	10	0.20	1.28	0.06	0.14	0.03	3.62		5.6%	35.5%	1.7%	3.9%	0.9%	100.0%	0.13	0.59	0.05	0.11	0.02	2.16	59.7%	3.5%	16.2%	1.3%	3.1%	0.6%	59.7%

Table 4. PD of Ant J – patch antenna (28GHz – n261)

[Folder Open Status]

- J–patch Low CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						per Beam Back-off (dB)	5.8%	9.2%	9.8%	3.6%	2.5%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.0%	3.9%	8.2%	7.0%	2.7%	1.0%	71.0%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)		ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.01	0.01	0.00	0.00	0.30		1.7%	2.3%	3.0%	0.3%	1.3%	100.0%	0.00	0.01	0.01	0.00	0.00	0.15	50.0%	1.0%	2.0%	2.0%	0.3%	0.7%	50.0%
2			2		1	0.00	0.01	0.01	0.00	0.00	0.29		1.4%	3.4%	3.4%	0.3%	0.3%	100.0%	0.00	0.01	0.01	0.00	0.00	0.16	55.7%	1.0%	3.1%	2.1%	0.3%	0.3%	55.7%
3			4		1	0.01	0.01	0.01	0.00	0.00	0.27		1.9%	4.1%	2.6%	0.7%	0.7%	100.0%	0.00	0.01	0.01	0.00	0.00	0.14	53.4%	1.1%	3.4%	2.2%	0.7%	0.4%	53.4%
4			6		1	0.00	0.01	0.01	0.00	0.00	0.31		1.0%	4.5%	1.6%	0.6%	0.3%	100.0%	0.00	0.01	0.01	0.00	0.00	0.17	54.5%	0.6%	3.8%	1.6%	0.6%	0.3%	54.5%
5			8		1	0.00	0.01	0.01	0.00	0.00	0.26		1.2%	3.1%	1.9%	0.8%	0.4%	100.0%	0.00	0.01	0.00	0.00	0.00	0.13	49.6%	1.2%	2.7%	1.5%	0.8%	0.0%	49.6%
6			10		2	0.01	0.02	0.02	0.00	0.00	0.36		3.9%	4.1%	5.0%	1.1%	1.1%	100.0%	0.01	0.01	0.01	0.00	0.00	0.21	56.5%	3.0%	3.6%	3.9%	1.1%	0.8%	56.5%
7			11		2	0.00	0.04	0.01	0.00	0.00	0.85		0.5%	4.5%	1.3%	0.4%	0.5%	100.0%	0.00	0.03	0.01	0.00	0.00	0.47	55.7%	0.4%	4.0%	1.1%	0.2%	0.2%	55.7%
8			12		2	0.00	0.04	0.02	0.00	0.00	0.71		0.4%	5.1%	2.4%	0.3%	0.4%	100.0%	0.00	0.03	0.01	0.00	0.00	0.43	60.2%	0.3%	4.4%	1.8%	0.1%	0.3%	60.2%
9			13		2	0.01	0.02	0.02	0.00	0.01	0.45		2.0%	3.3%	5.1%	0.9%	1.5%	100.0%	0.01	0.01	0.02	0.00	0.00	0.27	59.1%	1.3%	2.9%	4.2%	0.7%	0.7%	59.1%
10			18		2	0.01	0.03	0.01	0.01	0.00	0.56		2.0%	4.7%	1.3%	0.9%	0.5%	100.0%	0.01	0.02	0.01	0.01	0.00	0.33	59.5%	1.1%	4.0%	0.9%	0.9%	0.4%	59.5%
11			19		2	0.00	0.04	0.01	0.00	0.00	0.83		0.4%	5.3%	1.0%	0.1%	0.5%	100.0%	0.00	0.04	0.01	0.00	0.00	0.50	60.9%	0.2%	4.6%	0.7%	0.1%	0.4%	60.9%
12			20		2	0.00	0.01	0.02	0.00	0.00	0.36		1.1%	3.9%	5.3%	0.8%	0.6%	100.0%	0.00	0.01	0.01	0.00	0.00	0.17	46.8%	0.8%	3.4%	3.9%	0.8%	0.3%	46.8%
13			24		5	0.03	0.03	0.03	0.01	0.01	0.79		3.7%	3.8%	3.9%	1.8%	0.9%	100.0%	0.02	0.03	0.02	0.01	0.01	0.41	51.3%	2.8%	3.2%	2.4%	1.5%	0.6%	51.3%
14			25		5	0.02	0.12	0.01	0.01	0.01	1.70		1.1%	7.1%	0.8%	0.7%	0.5%	100.0%	0.01	0.10	0.01	0.01	0.00	1.04	61.2%	0.7%	6.0%	0.6%	0.5%	0.2%	61.2%
15			26		5	0.01	0.20	0.01	0.00	0.02	2.12		0.6%	9.2%	0.5%	0.2%	0.9%	100.0%	0.01	0.17	0.01	0.00	0.01	1.33	62.9%	0.5%	8.2%	0.4%	0.1%	0.6%	62.9%
16			27		5	0.02	0.13	0.07	0.01	0.01	1.71		1.1%	7.8%	4.1%	0.4%	0.5%	100.0%	0.02	0.12	0.05	0.00	0.01	1.07	62.2%	0.9%	6.8%	3.2%	0.2%	0.3%	62.2%
17			28		5	0.01	0.03	0.07	0.01	0.01	1.26		0.8%	2.6%	5.9%	0.4%	1.0%	100.0%	0.01	0.03	0.05	0.00	0.01	0.70	55.2%	0.6%	2.1%	3.7%	0.3%	0.5%	55.2%
18			34		5	0.02	0.06	0.03	0.02	0.01	1.11		1.7%	5.4%	2.5%	1.5%	0.5%	100.0%	0.01	0.05	0.02	0.01	0.00	0.68	61.4%	1.2%	4.5%	1.5%	1.2%	0.3%	61.4%
19			35		5	0.02	0.17	0.01	0.00	0.02	1.96		0.8%	8.5%	0.6%	0.1%	0.8%	100.0%	0.01	0.15	0.01	0.00	0.01	1.24	63.4%	0.6%	7.6%	0.5%	0.1%	0.4%	63.4%
20			36		5	0.02	0.18	0.03	0.00	0.02	2.02		0.9%	9.0%	1.5%	0.2%	0.9%	100.0%	0.02	0.16	0.02	0.00	0.01	1.26	62.4%	0.7%	7.9%	0.9%	0.1%	0.5%	62.4%
21			37		5	0.01	0.07	0.06	0.01	0.01	1.36		0.8%	4.8%	4.4%	0.4%	0.7%	100.0%	0.01	0.06	0.05	0.01	0.00	0.85	62.6%	0.6%	4.2%	3.6%	0.4%	0.2%	62.6%
22			128		1	0.01	0.00	0.02	0.00	0.01	0.32		3.1%	1.2%	4.6%	0.6%	1.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.17	52.2%	2.5%	0.9%	3.4%	0.6%	0.6%	52.2%
23			130		1	0.00	0.00	0.02	0.00	0.00	0.32		1.3%	0.6%	6.0%	1.0%	1.3%	100.0%	0.00	0.00	0.01	0.00	0.00	0.15	48.6%	1.0%	0.6%	4.1%	1.0%	0.6%	48.6%
24			132		1	0.00	0.00	0.02	0.00	0.00	0.32		1.3%	1.0%	5.1%	1.0%	1.3%	100.0%	0.00	0.00	0.01	0.00	0.00	0.16	50.8%	1.0%	0.6%	3.8%	1.0%	0.6%	50.8%
25			134		1	0.01	0.00	0.01	0.00	0.00	0.33		1.5%	0.9%	3.4%	1.2%	0.9%	100.0%	0.00	0.00	0.01	0.00	0.00	0.17	51.4%	0.9%	0.9%	2.4%	0.9%	0.3%	51.4%
26			136		1	0.01	0.00	0.01	0.01	0.00	0.29		2.7%	0.7%	2.1%	2.4%	0.7%	100.0%	0.01	0.00	0.00	0.01	0.00	0.14	48.6%	1.7%	0.7%	1.4%	2.1%	0.3%	48.6%
27			138		2	0.02	0.01	0.02	0.02	0.01	0.55		4.0%	1.1%	3.5%	3.6%	1.1%	100.0%	0.02	0.01	0.01	0.02	0.00	0.32	58.8%	2.7%	0.9%	2.6%	2.7%	0.7%	58.8%
28			139		2	0.02	0.01	0.01	0.01	0.00	0.66		2.3%	0.9%	2.1%	0.9%	0.6%	100.0%	0.01	0.01	0.01	0.01	0.00	0.41	62.0%	1.8%	0.8%	1.5%	0.8%	0.3%	62.0%
29			140		2	0.01	0.01	0.03	0.00	0.01	0.77		0.9%	1.0%	3.4%	0.1%	0.8%	100.0%	0.01	0.01	0.02	0.00	0.00	0.46	59.4%	0.7%	0.9%	2.3%	0.1%	0.3%	59.4%
30			141		2	0.01	0.01	0.06	0.01	0.01	0.67		1.7%	0.9%	8.4%	0.9%	1.8%	100.0%	0.01	0.01	0.04	0.01	0.01	0.38	56.3%	1.4%	0.8%	6.2%	0.8%	0.8%	56.3%
31			146		2	0.01	0.01	0.02	0.01	0.01	0.67		1.6%	0.9%	2.8%	1.6%	0.7%	100.0%	0.01	0.00	0.01	0.01	0.00	0.42	62.7%	1.2%	0.6%	1.9%	1.3%	0.3%	62.7%
32			147		2	0.01	0.01	0.02	0.00	0.00	0.77		1.3%	1.0%	3.0%	0.1%	0.4%	100.0%	0.01	0.01	0.02	0.00	0.00	0.49	63.7%	1.0%	0.9%	2.1%	0.1%	0.1%	63.7%
33			148		2	0.01	0.01	0.03	0.01	0.01	0.57		1.6%	1.2%	4.5%	2.3%	1.0%	100.0%	0.01	0.01	0.02	0.01	0.00	0.31	54.9%	1.4%	0.9%	3.3%	1.7%	0.7%	54.9%
34			152		5	0.05	0.03	0.01	0.04	0.01	1.73		2.8%	1.5%	0.7%	2.4%	0.6%	100.0%	0.04	0.02	0.01	0.03	0.01	0.97	56.1%	2.0%	1.2%	0.5%	1.7%	0.5%	56.1%
35			153		5	0.02	0.03	0.01	0.01	0.00	1.69		1.4%	1.5%	0.7%	0.3%	0.2%	100.0%	0.02	0.02	0.01	0.00	0.00	1.20	70.9%	0.9%	1.1%	0.5%	0.2%	0.2%	70.9%
36			154		5	0.03	0.04	0.02	0.01	0.00	1.63		1.7%	2.3%	1.0%	0.4%	0.2%	100.0%	0.02	0.03	0.01	0.01	0.00	1.13	69.5%	1.2%	1.9%	0.7%	0.4%	0.1%	69.5%
37			155		5	0.03	0.04	0.03	0.00	0.01	1.73		1.8%	2.2%	2.0%	0.2%	0.3%	100.0%	0.02	0.03	0.03	0.00	0.01	1.19	68.6%	1.4%	2.0%	1.6%	0.1%	0.3%	68.6%
38			156		5	0.02	0.02	0.18	0.01	0.03	1.83		1.1%	1.1%	9.8%	0.5%	1.9%	100.0%	0.01	0.02	0.13	0.01	0.02	1.02	55.7%	0.8%	0.8%	7.0%	0.4%	0.8%	55.7%
39			162		5	0.03	0.03	0.01	0.02	0.01	1.98		1.3%	1.5%	0.6%	0.8%	0.3%	100.0%	0.02	0.02	0.01	0.01	0.00	1.27	63.9%	0.9%	1.2%	0.5%	0.7%	0.2%	63.9%
40			163		5	0.03	0.04	0.01	0.00	0.01	1.71		1.5%	2.1%	0.6%	0.1%	0.3%	100.0%	0.02	0.03	0.01	0.00	0.00	1.19	69.6%	1.1%	1.8%	0.5%	0.1%	0.1%	69.6%
41			164		5	0.03	0.04	0.02	0.01	0.00	1.64		1.6%	2.3%	1.1%	0.4%	0.2%	100.0%	0.02	0.03	0.01	0.01	0.00	1.15	70.3%	1.1%	1.9%	0.7%	0.3%	0.1%	70.3%
42			165		5	0.03	0.04	0.07	0.01	0.01	1.88		1.6%	2.1%	3.9%	0.6%	0.4%	100.0%	0.02	0.03	0.05	0.01	0.00	1.25	66.7%	1.2%	1.8%	2.9%	0.5%	0.2%	66.7%
43			0	128	2	0.02	0.01	0.04	0.01	0.02	0.71		2.7%	2.0%	5.3%	0.8%	2.3%	100.0%	0.02	0.01	0.02	0.01	0.01	0.36	51.1%	2.1%	1.8%	3.4%	0.7%	1.0%	51.1%
44			2	130	2	0.01	0.02	0.04	0.00	0.01	0.66		2.1%	2.6%	5.3%	0.6%	1.1%	100.0%	0.01	0.02	0.02	0.00	0.00	0.36	54.3%	1.7%	2.3%	3.5%	0.6%	0.5%	54.3%
45			4	132	2	0.01	0.02	0.03	0.01	0.01	0.63		1.4%	2.7%	4.2%	0.8%	1.0%	100.0%	0.01	0.02	0.02	0.00	0.00	0.34	54.9%	1.1%	2.4%	3.0%	0.6%	0.5%	54.9%
46			6	134	2	0.01	0.03	0.02	0.01	0.01	0.65		1.5%	4.5%	3.4%	0.9%	0.8%	100.0%	0.01	0.03	0.02	0.01	0.00	0.37	56.4%	0.9%	4.0%	2.5%	0.8%	0.3%	56.4%
47			8	136	2	0.02	0.01	0.02	0.02	0.00	0.60		2.5%	2.3%	2.7%	2.5%	0.7%	100.0%	0.01	0.01	0.01	0.01	0.00	0.32	53.7%	1.7%	2.2%	2.2%	2.0%	0.5%	53.7%
48			10	138	4	0.05	0.03	0.05	0.03	0.01	0.90		5.8%	3.2%	5.4%	2.9%	1.3%	100.0%	0.04	0.03	0.03	0.02	0.01	0.54	59.6%	3.9%	2.8%	3.8%	2.3%	0.9%	59.6%
49			11	139	4	0.02	0.05	0.02	0.01	0.01	1.33		1.7%	3.4%	1.7%	0.8%	0.4%	100.0%	0.02	0.04	0.02	0.01	0.00	0.79	59.1%	1.5%	3.0%	1.4%	0.8%	0.2%	59.1%
50			12	140	4	0.02	0.06	0.05	0.00	0.01	1.52		1.1%	4.1%	3.1%	0.3%	0.5%	100.0%	0.01	0.05	0.03	0.00	0.00	0.95	62.5%	0.7%	3.6%	2.1%	0.3%	0.2%	62.5%
51			13	141	4	0.02	0.03	0.11	0.01	0.03	1.32		1.5%	2.3%	8.4%	0.9%	2.5%	100.0%	0.02	0.03	0.08	0.01	0.01	0.82	62.5%	1.1%	2.0%	6.0%	0.8%	0.9%	62.5%
52			18	146	4	0.03	0.04	0.04	0.02	0.01	1.27		2.0%	3.5%	2.9%	1.2%	0.6%	100.0%	0.02	0.04	0.03	0.01	0.01	0.81	63.8%	1.3%	3.1%	2.0%	0.9%	0.4%	63.8%
53			19	147	4	0.02	0.05	0.03	0.00	0.01	1.42		1.3%	3.6%	2.3%	0.1%	0.4%	100.0%	0.02	0.05	0.03	0.00	0.00	0.87	61.1%	1.1%	3.2%	1.8%	0.1%	0.2%	61.1%
54			20	148	4	0.02	0.03	0.06	0.02	0.01	1.00		2.1%	3.0%	6.3%	2.4%	1.3%	100.0%	0.02	0.03	0.05	0.02	0.01	0.51	51.2%	1.6%	2.6%	4.9%	1.8%	0.7%	51.2%
55			24	152	10	0.15	0.09	0.07	0.05	0.03	2.79		5.3%	3.4%	2.5%	1.9%	1.2%	100.0%	0.11	0.08	0.04	0.05	0.02	1.70	60.8%	3.9%	2.8%	1.5%	1.7%	0.6%	60.8%
56			25	153	10	0.05	0.17	0.03	0.02	0.02	3.64		1.5%	4.8%	0.9%	0.7%	0.4%	100.0%	0.04	0.15	0.03	0.02	0.01	2.55	70.1%	1.0%	4.0%	0.7%	0.4%	0.2%	70.1%
57			26	154	10	0.06	0.32	0.04	0.02	0.03	3.87		1.6%	8.1%	1.0%	0.5%	0.8%	100.0%	0.05	0.28	0.03	0.02	0.02	2.70	69.8%	1.2%	7.2%	0.7%	0.4%	0.5%	69.8%
58			27	155	10	0.08	0.23	0.17	0.01	0.02	3.72		2.2%	6.2%	4.5%	0.4%	0.6%	100.0%	0.07	0.20	0.13	0.01	0.01	2.64	71.0%	1.8%	5.4%	3.6%	0.3%	0.3%	71.0%
59			28	156	10	0.05	0.08	0.31	0.02	0.08	3.57		1.4%	2.1%	8.6%	0.6%	2.2%	100.0%	0.03	0.06	0.21	0.02	0.03	2.03	56.9%	0.9%	1.7%	6.0%	0.5%	0.9%	56.9%
60			34	162	10	0.08	0.13	0.05	0.05	0.02	3.37		2.5%	3.8%	1.5%	1.6%	0.5%	100.0%	0.06	0.11	0.03	0.05	0.01	2.34	69.4%	1.8%	3.2%	0.9%	1.3%	0.4%	69.4%
61			35	163	10	0.07	0.26	0.03	0.01	0.02	3.87		1.9%	6.6%	0.7%	0.2%	0.6%	100.0%	0.05	0.23	0.02	0.01	0.01	2.63	67.9%	1.4%	5.9%	0.6%	0.1%	0.3%	67.9%
62			36	164	10	0.08	0.29	0.09	0.02	0.03	3.75		2.1%	7.8%	2.3%	0.5%	0.7%	100.0%	0.06	0.26	0.05	0.01	0.02	2.63	70.3%	1.6%	6.8%	1.4%	0.4%	0.4%	70.3%
63			37	165	10	0.05	0.14	0.18	0.03	0.02	3.69		1.4%	3.9%	4.8%	0.8%	0.6%	100.0%	0.04	0.13	0.15	0.02	0.01	2.56	69.4%	1.1%	3.4%	4.0%	0.6%	0.3%	69.4%

- J–patch Mid CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						per Beam Back-off (dB)	5.7%	9.0%	10.3%	2.6%	1.9%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.5%	3.7%	8.1%	7.5%	2.0%	1.1%	71.5%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)		ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.01	0.01	0.00	0.00	0.34		1.5%	2.0%	2.3%	0.3%	0.9%	100.0%	0.00	0.01	0.01	0.00	0.00	0.19	54.4%	1.2%	1.8%	2.0%	0.3%	0.3%	54.4%
2			2		1	0.00	0.01	0.01	0.00	0.00	0.28		1.1%	4.3%	3.2%	0.4%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	0.16	56.5%	1.1%	3.6%	2.2%	0.4%	0.4%	56.5%
3			4		1	0.01	0.01	0.01	0.00	0.00	0.26		1.9%	3.8%	2.7%	0.8%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	0.14	53.1%	1.5%	3.4%	2.3%	0.8%	0.4%	53.1%
4			6		1	0.00	0.01	0.01	0.00	0.00	0.29		1.0%	4.2%	2.1%	0.7%	0.3%	100.0%	0.00	0.01	0.01	0.00	0.00	0.16	53.6%	0.7%	3.8%	1.7%	0.7%	0.3%	53.6%
5			8		1	0.00	0.01	0.01	0.00	0.00	0.26		0.8%	2.7%	2.3%	0.4%	0.4%	100.0%	0.00	0.01	0.00	0.00	0.00	0.13	49.8%	0.4%	2.3%	1.6%	0.4%	0.0%	49.8%
6			10		2	0.01	0.02	0.02	0.00	0.00	0.34		4.1%	5.5%	4.9%	1.2%	1.2%	100.0%	0.01	0.02	0.01	0.00	0.00	0.19	56.1%	3.2%	4.9%	3.8%	1.2%	0.6%	56.1%
7			11		2	0.01	0.04	0.01	0.00	0.00	0.84		0.6%	4.3%	1.2%	0.4%	0.5%	100.0%	0.00	0.03	0.01	0.00	0.00	0.47	55.5%	0.5%	3.7%	1.0%	0.2%	0.2%	55.5%
8			12		2	0.01	0.04	0.02	0.00	0.00	0.67		0.7%	5.4%	2.7%	0.3%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.40	58.8%	0.4%	4.8%	2.1%	0.3%	0.3%	58.8%
9			13		2	0.01	0.02	0.02	0.00	0.01	0.47		1.9%	3.6%	4.5%	0.8%	1.1%	100.0%	0.01	0.01	0.02	0.00	0.00	0.28	58.4%	1.5%	3.0%	3.6%	0.6%	0.4%	58.4%
10			18		2	0.01	0.02	0.01	0.01	0.00	0.51		2.1%	4.5%	1.2%	1.0%	0.6%	100.0%	0.01	0.02	0.01	0.00	0.00	0.31	60.5%	1.4%	4.1%	1.0%	0.8%	0.4%	60.5%
11			19		2	0.00	0.05	0.01	0.00	0.01	0.77		0.5%	5.9%	1.0%	0.1%	0.7%	100.0%	0.00	0.04	0.01	0.00	0.00	0.47	61.1%	0.4%	5.1%	0.7%	0.1%	0.4%	61.1%
12			20		2	0.01	0.01	0.02	0.00	0.00	0.35		1.4%	3.8%	6.1%	1.2%	0.3%	100.0%	0.00	0.01	0.02	0.00	0.00	0.16	47.4%	1.2%	3.2%	4.3%	0.9%	0.3%	47.4%
13			24		5	0.03	0.02	0.04	0.01	0.01	0.82		3.8%	2.4%	4.6%	1.2%	0.9%	100.0%	0.02	0.02	0.02	0.01	0.00	0.37	45.1%	2.8%	2.2%	2.9%	1.1%	0.5%	45.1%
14			25		5	0.02	0.11	0.01	0.01	0.01	1.71		1.1%	6.7%	0.7%	0.5%	0.5%	100.0%	0.01	0.10	0.01	0.01	0.01	1.06	61.9%	0.7%	5.8%	0.6%	0.4%	0.3%	61.9%
15			26		5	0.02	0.19	0.01	0.00	0.02	2.09		0.9%	9.0%	0.3%	0.1%	0.9%	100.0%	0.01	0.17	0.01	0.00	0.01	1.28	61.1%	0.7%	8.1%	0.2%	0.1%	0.6%	61.1%
16			27		5	0.02	0.14	0.08	0.01	0.01	1.84		1.0%	7.7%	4.1%	0.3%	0.5%	100.0%	0.01	0.13	0.06	0.00	0.01	1.15	62.7%	0.7%	6.9%	3.0%	0.2%	0.3%	62.7%
17			28		5	0.01	0.03	0.08	0.01	0.01	1.23		0.7%	2.3%	6.2%	0.6%	0.8%	100.0%	0.01	0.02	0.05	0.01	0.00	0.65	53.3%	0.6%	2.0%	3.8%	0.4%	0.3%	53.3%
18			34		5	0.02	0.06	0.03	0.01	0.01	1.01		1.9%	5.7%	3.2%	1.1%	0.5%	100.0%	0.01	0.05	0.02	0.01	0.00	0.64	63.4%	1.3%	4.8%	2.1%	0.8%	0.2%	63.4%
19			35		5	0.02	0.17	0.01	0.00	0.02	1.98		1.1%	8.6%	0.6%	0.1%	0.9%	100.0%	0.01	0.15	0.01	0.00	0.01	1.20	60.8%	0.7%	7.8%	0.5%	0.1%	0.6%	60.8%
20			36		5	0.02	0.18	0.03	0.00	0.02	2.02		0.7%	8.7%	1.4%	0.2%	0.8%	100.0%	0.01	0.16	0.02	0.00	0.01	1.25	62.1%	0.5%	7.7%	0.7%	0.1%	0.5%	62.1%
21			37		5	0.01	0.07	0.06	0.01	0.01	1.45		0.8%	5.0%	4.0%	0.5%	0.5%	100.0%	0.01	0.06	0.05	0.01	0.00	0.90	62.2%	0.6%	4.3%	3.2%	0.5%	0.2%	62.2%
22			128		1	0.01	0.00	0.02	0.00	0.00	0.30		3.0%	1.3%	5.3%	0.7%	1.3%	100.0%	0.01	0.00	0.01	0.00	0.00	0.16	53.6%	2.3%	1.0%	3.9%	0.7%	0.7%	53.6%
23			130		1	0.01	0.00	0.02	0.00	0.00	0.30		1.7%	1.0%	5.7%	0.7%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.14	47.7%	1.3%	0.7%	4.0%	0.7%	0.7%	47.7%
24			132		1	0.01	0.00	0.02	0.00	0.00	0.31		1.6%	1.0%	5.5%	1.0%	1.3%	100.0%	0.00	0.00	0.01	0.00	0.00	0.16	51.9%	1.3%	1.0%	4.2%	0.6%	0.6%	51.9%
25			134		1	0.00	0.00	0.01	0.00	0.00	0.31		1.3%	1.0%	3.8%	0.6%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.16	51.0%	1.0%	1.0%	2.9%	0.6%	0.6%	51.0%
26			136		1	0.01	0.00	0.01	0.01	0.00	0.28		2.5%	0.7%	2.1%	1.8%	0.7%	100.0%	0.01	0.00	0.01	0.00	0.00	0.14	50.2%	1.8%	0.7%	1.8%	1.4%	0.4%	50.2%
27			138		2	0.02	0.01	0.02	0.01	0.01	0.49		4.0%	1.2%	4.5%	2.6%	1.2%	100.0%	0.01	0.01	0.02	0.01	0.00	0.30	59.7%	2.6%	1.0%	3.4%	2.0%	0.6%	59.7%
28			139		2	0.02	0.01	0.02	0.01	0.00	0.62		2.6%	0.8%	2.4%	0.8%	0.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.38	61.2%	1.9%	0.6%	1.6%	0.6%	0.3%	61.2%
29			140		2	0.01	0.01	0.03	0.00	0.00	0.74		0.9%	1.2%	3.4%	0.1%	0.5%	100.0%	0.01	0.01	0.02	0.00	0.00	0.44	59.7%	0.7%	1.1%	2.3%	0.1%	0.1%	59.7%
30			141		2	0.01	0.01	0.06	0.01	0.01	0.63		1.4%	1.1%	9.9%	1.0%	1.6%	100.0%	0.01	0.01	0.04	0.01	0.01	0.36	56.7%	1.0%	1.0%	6.5%	0.8%	0.8%	56.7%
31			146		2	0.01	0.01	0.02	0.01	0.01	0.62		2.1%	1.1%	3.2%	1.3%	0.8%	100.0%	0.01	0.01	0.02	0.01	0.00	0.40	64.2%	1.6%	1.0%	2.4%	1.0%	0.3%	64.2%
32			147		2	0.01	0.01	0.02	0.00	0.00	0.73		1.2%	1.5%	2.7%	0.1%	0.4%	100.0%	0.01	0.01	0.01	0.00	0.00	0.47	64.1%	1.0%	1.2%	1.9%	0.1%	0.1%	64.1%
33			148		2	0.01	0.01	0.03	0.01	0.01	0.59		1.7%	1.2%	4.7%	1.0%	1.3%	100.0%	0.01	0.01	0.02	0.01	0.01	0.32	54.0%	1.2%	1.0%	3.7%	0.8%	0.8%	54.0%
34			152		5	0.05	0.03	0.02	0.03	0.01	1.53		2.9%	2.0%	1.0%	1.9%	0.8%	100.0%	0.03	0.03	0.01	0.02	0.01	0.86	56.3%	2.0%	1.7%	0.7%	1.5%	0.5%	56.3%
35			153		5	0.02	0.03	0.01	0.01	0.01	1.67		1.4%	1.8%	0.7%	0.3%	0.3%	100.0%	0.02	0.02	0.01	0.00	0.00	1.17	70.2%	1.1%	1.4%	0.5%	0.2%	0.1%	70.2%
36			154		5	0.02	0.04	0.02	0.01	0.00	1.58		1.5%	2.5%	1.1%	0.4%	0.2%	100.0%	0.02	0.03	0.01	0.01	0.00	1.10	69.5%	1.1%	2.0%	0.8%	0.3%	0.1%	69.5%
37			155		5	0.03	0.05	0.05	0.00	0.01	1.68		1.7%	2.7%	2.7%	0.1%	0.4%	100.0%	0.02	0.04	0.03	0.00	0.00	1.16	69.2%	1.3%	2.5%	2.0%	0.1%	0.2%	69.2%
38			156		5	0.02	0.03	0.19	0.01	0.03	1.86		0.9%	1.6%	10.3%	0.3%	1.3%	100.0%	0.01	0.02	0.14	0.01	0.01	1.03	55.2%	0.5%	1.1%	7.5%	0.3%	0.7%	55.2%
39			162		5	0.02	0.03	0.01	0.02	0.01	1.87		1.2%	1.7%	0.6%	0.8%	0.4%	100.0%	0.02	0.03	0.01	0.01	0.00	1.21	64.7%	1.0%	1.4%	0.4%	0.7%	0.2%	64.7%
40			163		5	0.03	0.04	0.01	0.00	0.01	1.68		1.7%	2.3%	0.7%	0.1%	0.3%	100.0%	0.02	0.03	0.01	0.00	0.00	1.16	69.4%	1.1%	1.8%	0.5%	0.1%	0.1%	69.4%
41			164		5	0.03	0.04	0.02	0.01	0.00	1.58		1.6%	2.5%	1.2%	0.3%	0.3%	100.0%	0.02	0.03	0.01	0.00	0.00	1.11	70.1%	1.2%	2.0%	0.8%	0.3%	0.1%	70.1%
42			165		5	0.04	0.04	0.08	0.01	0.01	1.83		2.0%	2.4%	4.4%	0.4%	0.4%	100.0%	0.03	0.04	0.06	0.01	0.00	1.23	67.0%	1.4%	2.0%	3.1%	0.3%	0.2%	67.0%
43			0	128	2	0.01	0.01	0.04	0.01	0.01	0.73		1.8%	1.9%	4.9%	0.8%	1.6%	100.0%	0.01	0.01	0.03	0.01	0.01	0.39	53.6%	1.4%	1.6%	3.8%	0.7%	0.7%	53.6%
44			2	130	2	0.02	0.02	0.04	0.00	0.01	0.65		2.3%	2.6%	5.9%	0.6%	1.2%	100.0%	0.01	0.02	0.03	0.00	0.00	0.35	54.1%	1.7%	2.3%	4.2%	0.5%	0.6%	54.1%
45			4	132	2	0.01	0.02	0.02	0.01	0.01	0.63		1.4%	2.6%	3.7%	0.8%	0.8%	100.0%	0.01	0.01	0.02	0.00	0.00	0.35	55.4%	1.1%	2.2%	2.7%	0.6%	0.3%	55.4%
46			6	134	2	0.01	0.03	0.02	0.01	0.00	0.62		1.6%	4.0%	3.4%	0.8%	0.6%	100.0%	0.01	0.02	0.02	0.00	0.00	0.34	55.5%	1.0%	3.7%	2.6%	0.6%	0.3%	55.5%
47			8	136	2	0.01	0.01	0.02	0.01	0.00	0.59		2.4%	2.4%	3.1%	1.2%	0.7%	100.0%	0.01	0.01	0.01	0.01	0.00	0.30	51.7%	1.4%	2.0%	2.4%	0.9%	0.3%	51.7%
48			10	138	4	0.05	0.03	0.05	0.02	0.01	0.80		5.7%	3.9%	6.4%	2.2%	1.7%	100.0%	0.03	0.03	0.04	0.01	0.01	0.50	62.2%	3.7%	3.5%	4.6%	1.7%	1.1%	62.2%
49			11	139	4	0.03	0.04	0.03	0.01	0.00	1.29		1.9%	3.4%	2.0%	0.7%	0.3%	100.0%	0.02	0.04	0.02	0.01	0.00	0.76	59.1%	1.6%	3.1%	1.8%	0.5%	0.2%	59.1%
50			12	140	4	0.02	0.06	0.05	0.00	0.01	1.47		1.0%	3.9%	3.1%	0.2%	0.4%	100.0%	0.01	0.05	0.03	0.00	0.00	0.93	63.5%	0.7%	3.5%	2.0%	0.2%	0.3%	63.5%
51			13	141	4	0.02	0.03	0.13	0.01	0.03	1.30		1.8%	2.0%	9.9%	0.8%	1.9%	100.0%	0.02	0.02	0.10	0.01	0.01	0.83	63.5%	1.2%	1.8%	7.4%	0.7%	1.0%	63.5%
52			18	146	4	0.02	0.04	0.03	0.01	0.01	1.23		2.0%	3.3%	2.8%	1.1%	0.6%	100.0%	0.02	0.04	0.03	0.01	0.00	0.80	65.1%	1.2%	2.9%	2.0%	0.9%	0.3%	65.1%
53			19	147	4	0.02	0.06	0.04	0.00	0.01	1.34		1.3%	4.3%	2.7%	0.1%	0.4%	100.0%	0.01	0.05	0.02	0.00	0.00	0.83	61.8%	1.0%	3.7%	1.8%	0.1%	0.3%	61.8%
54			20	148	4	0.02	0.03	0.07	0.01	0.01	0.99		2.2%	3.2%	6.8%	1.0%	1.3%	100.0%	0.02	0.03	0.05	0.01	0.01	0.54	54.5%	1.8%	2.8%	5.2%	0.8%	0.7%	54.5%
55			24	152	10	0.14	0.09	0.08	0.04	0.04	2.76		5.2%	3.2%	2.9%	1.6%	1.4%	100.0%	0.10	0.08	0.05	0.04	0.02	1.64	59.2%	3.7%	2.8%	1.8%	1.4%	0.6%	59.2%
56			25	153	10	0.06	0.17	0.03	0.02	0.01	3.74		1.7%	4.6%	0.8%	0.5%	0.4%	100.0%	0.05	0.15	0.02	0.01	0.01	2.62	70.0%	1.3%	4.0%	0.6%	0.4%	0.2%	70.0%
57			26	154	10	0.07	0.31	0.03	0.01	0.03	3.84		1.8%	8.0%	0.8%	0.4%	0.8%	100.0%	0.05	0.27	0.03	0.01	0.02	2.65	69.2%	1.3%	7.1%	0.7%	0.3%	0.5%	69.2%
58			27	155	10	0.07	0.25	0.19	0.01	0.02	3.77		1.7%	6.6%	5.0%	0.3%	0.6%	100.0%	0.05	0.22	0.15	0.01	0.01	2.70	71.5%	1.4%	5.9%	3.9%	0.3%	0.3%	71.5%
59			28	156	10	0.05	0.07	0.32	0.02	0.06	3.73		1.3%	2.0%	8.5%	0.5%	1.5%	100.0%	0.03	0.06	0.22	0.01	0.02	2.14	57.2%	0.7%	1.6%	5.8%	0.3%	0.6%	57.2%
60			34	162	10	0.08	0.12	0.06	0.05	0.02	3.35		2.2%	3.5%	1.7%	1.4%	0.5%	100.0%	0.05	0.10	0.04	0.04	0.01	2.29	68.4%	1.5%	2.9%	1.3%	1.1%	0.3%	68.4%
61			35	163	10	0.08	0.26	0.03	0.01	0.02	3.97		2.1%	6.6%	0.7%	0.2%	0.6%	100.0%	0.06	0.24	0.02	0.01	0.02	2.69	67.6%	1.5%	6.0%	0.6%	0.2%	0.4%	67.6%
62			36	164	10	0.07	0.29	0.09	0.02	0.03	3.73		1.8%	7.8%	2.3%	0.4%	0.8%	100.0%	0.05	0.25	0.05	0.01	0.02	2.62	70.1%	1.4%	6.8%	1.4%	0.3%	0.5%	70.1%
63			37	165	10	0.07	0.16	0.17	0.01	0.02	3.81		1.7%	4.2%	4.4%	0.4%	0.6%	100.0%	0.05	0.14	0.13	0.01	0.01	2.65	69.4%	1.2%	3.6%	3.5%	0.3%	0.3%	69.4%

- J–patch High CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							5.0%	8.6%	10.5%	2.6%	2.1%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.4%	3.6%	7.8%	7.6%	2.0%	1.2%	71.4%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.01	0.01	0.00	0.00	0.35		1.4%	2.9%	2.6%	0.3%	0.9%	100.0%	0.00	0.01	0.01	0.00	0.00	0.20	57.3%	0.9%	2.6%	2.0%	0.0%	0.6%	57.3%
2			2		1	0.00	0.01	0.01	0.00	0.00	0.27		1.1%	4.9%	2.6%	0.4%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	0.15	55.3%	0.8%	4.1%	1.9%	0.4%	0.4%	55.3%
3			4		1	0.01	0.01	0.01	0.00	0.00	0.26		1.9%	3.8%	2.3%	0.8%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	0.14	52.7%	1.1%	3.4%	1.9%	0.8%	0.4%	52.7%
4			6		1	0.00	0.01	0.01	0.00	0.00	0.27		1.5%	4.1%	2.2%	0.7%	0.4%	100.0%	0.00	0.01	0.01	0.00	0.00	0.14	53.3%	1.1%	3.7%	1.9%	0.4%	0.4%	53.3%
5			8		1	0.00	0.01	0.01	0.00	0.00	0.25		0.8%	3.2%	2.4%	0.4%	0.4%	100.0%	0.00	0.01	0.00	0.00	0.00	0.12	49.0%	0.8%	2.8%	1.6%	0.4%	0.0%	49.0%
6			10		2	0.01	0.02	0.01	0.00	0.00	0.32		3.4%	7.5%	4.4%	0.9%	0.9%	100.0%	0.01	0.02	0.01	0.00	0.00	0.18	56.1%	2.5%	6.9%	3.4%	0.9%	0.6%	56.1%
7			11		2	0.01	0.04	0.01	0.00	0.00	0.83		0.6%	4.3%	1.4%	0.2%	0.5%	100.0%	0.00	0.03	0.01	0.00	0.00	0.46	55.3%	0.5%	3.8%	1.1%	0.1%	0.2%	55.3%
8			12		2	0.01	0.03	0.02	0.00	0.00	0.64		0.8%	5.3%	2.5%	0.3%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.38	59.0%	0.5%	4.9%	2.0%	0.3%	0.3%	59.0%
9			13		2	0.01	0.02	0.02	0.00	0.01	0.45		2.0%	4.0%	4.4%	0.4%	1.1%	100.0%	0.01	0.02	0.01	0.00	0.00	0.25	56.2%	1.3%	3.6%	3.1%	0.2%	0.4%	56.2%
10			18		2	0.01	0.03	0.01	0.00	0.00	0.48		2.3%	5.4%	1.7%	0.8%	0.6%	100.0%	0.01	0.02	0.01	0.00	0.00	0.28	58.3%	1.4%	4.5%	1.2%	0.8%	0.4%	58.3%
11			19		2	0.00	0.04	0.01	0.00	0.00	0.73		0.4%	5.7%	1.0%	0.1%	0.6%	100.0%	0.00	0.04	0.01	0.00	0.00	0.44	61.1%	0.4%	5.0%	0.7%	0.1%	0.4%	61.1%
12			20		2	0.01	0.01	0.02	0.01	0.00	0.33		2.1%	4.0%	6.1%	1.5%	0.3%	100.0%	0.01	0.01	0.02	0.00	0.00	0.15	46.3%	1.8%	3.4%	4.6%	1.2%	0.3%	46.3%
13			24		5	0.02	0.02	0.04	0.01	0.01	0.83		2.9%	2.2%	4.8%	0.7%	0.7%	100.0%	0.02	0.02	0.03	0.01	0.00	0.40	48.0%	2.0%	1.8%	3.0%	0.6%	0.5%	48.0%
14			25		5	0.01	0.11	0.01	0.00	0.01	1.66		0.8%	6.6%	0.7%	0.2%	0.5%	100.0%	0.01	0.10	0.01	0.00	0.01	1.05	63.0%	0.5%	5.9%	0.5%	0.2%	0.3%	63.0%
15			26		5	0.02	0.18	0.01	0.00	0.02	2.09		0.9%	8.5%	0.3%	0.0%	0.9%	100.0%	0.01	0.16	0.01	0.00	0.01	1.25	59.9%	0.6%	7.6%	0.3%	0.0%	0.6%	59.9%
16			27		5	0.02	0.15	0.09	0.00	0.01	1.90		0.9%	7.9%	4.7%	0.2%	0.5%	100.0%	0.01	0.13	0.06	0.00	0.01	1.17	61.9%	0.7%	7.1%	3.4%	0.2%	0.3%	61.9%
17			28		5	0.01	0.03	0.07	0.01	0.01	1.09		1.1%	2.3%	6.2%	0.6%	1.2%	100.0%	0.01	0.02	0.04	0.01	0.01	0.56	51.5%	0.6%	1.9%	3.8%	0.5%	0.5%	51.5%
18			34		5	0.02	0.05	0.03	0.01	0.00	0.92		1.6%	5.3%	3.5%	0.5%	0.4%	100.0%	0.01	0.04	0.02	0.00	0.00	0.57	61.8%	1.1%	4.7%	2.1%	0.3%	0.2%	61.8%
19			35		5	0.02	0.17	0.02	0.00	0.02	2.01		1.0%	8.6%	0.7%	0.1%	0.8%	100.0%	0.01	0.16	0.01	0.00	0.01	1.19	59.3%	0.7%	7.8%	0.5%	0.0%	0.5%	59.3%
20			36		5	0.02	0.17	0.03	0.00	0.02	2.02		0.8%	8.5%	1.5%	0.0%	0.8%	100.0%	0.01	0.15	0.02	0.00	0.01	1.24	61.4%	0.5%	7.5%	0.7%	0.0%	0.4%	61.4%
21			37		5	0.01	0.07	0.06	0.01	0.01	1.44		0.8%	4.9%	4.1%	0.4%	0.5%	100.0%	0.01	0.06	0.05	0.01	0.00	0.88	61.6%	0.6%	4.3%	3.3%	0.3%	0.2%	61.6%
22			128		1	0.01	0.00	0.02	0.00	0.01	0.28		2.9%	0.7%	6.1%	0.7%	1.8%	100.0%	0.01	0.00	0.01	0.00	0.00	0.15	54.5%	2.5%	0.7%	4.3%	0.4%	0.7%	54.5%
23			130		1	0.01	0.00	0.02	0.00	0.00	0.29		1.7%	1.0%	5.9%	0.7%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.14	47.9%	1.0%	1.0%	4.1%	0.7%	0.7%	47.9%
24			132		1	0.00	0.00	0.02	0.00	0.00	0.30		1.3%	1.0%	5.3%	1.3%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.16	52.3%	1.3%	1.0%	4.0%	1.0%	0.7%	52.3%
25			134		1	0.00	0.00	0.01	0.00	0.00	0.30		1.3%	1.3%	3.9%	1.0%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.16	52.0%	1.0%	1.0%	3.0%	0.7%	0.7%	52.0%
26			136		1	0.01	0.00	0.01	0.00	0.00	0.28		2.2%	0.7%	2.5%	1.4%	0.7%	100.0%	0.00	0.00	0.01	0.00	0.00	0.14	50.5%	1.4%	0.7%	2.2%	1.1%	0.4%	50.5%
27			138		2	0.02	0.01	0.02	0.01	0.01	0.46		3.7%	1.3%	5.2%	2.6%	1.3%	100.0%	0.01	0.01	0.02	0.01	0.00	0.28	59.8%	2.4%	1.3%	3.9%	1.9%	0.6%	59.8%
28			139		2	0.02	0.01	0.01	0.00	0.00	0.59		3.0%	0.8%	2.2%	0.7%	0.7%	100.0%	0.01	0.00	0.01	0.00	0.00	0.36	61.1%	2.2%	0.7%	1.5%	0.5%	0.3%	61.1%
29			140		2	0.01	0.01	0.02	0.00	0.00	0.71		1.0%	1.3%	3.1%	0.1%	0.4%	100.0%	0.01	0.01	0.02	0.00	0.00	0.43	61.1%	0.7%	1.0%	2.1%	0.1%	0.1%	61.1%
30			141		2	0.01	0.01	0.06	0.01	0.01	0.58		1.5%	1.4%	10.5%	1.0%	1.7%	100.0%	0.01	0.01	0.04	0.01	0.01	0.34	57.6%	1.2%	1.2%	6.7%	0.9%	0.9%	57.6%
31			146		2	0.01	0.01	0.02	0.01	0.01	0.60		2.2%	1.5%	3.5%	1.5%	0.8%	100.0%	0.01	0.01	0.02	0.01	0.00	0.38	63.7%	2.0%	1.3%	2.7%	1.2%	0.5%	63.7%
32			147		2	0.01	0.01	0.02	0.00	0.01	0.70		1.3%	1.3%	2.7%	0.1%	0.7%	100.0%	0.01	0.01	0.01	0.00	0.00	0.44	63.6%	1.0%	1.3%	1.9%	0.1%	0.4%	63.6%
33			148		2	0.01	0.01	0.03	0.01	0.01	0.61		1.6%	1.3%	4.9%	0.8%	1.3%	100.0%	0.01	0.01	0.02	0.00	0.00	0.33	53.5%	1.5%	1.2%	3.8%	0.7%	0.7%	53.5%
34			152		5	0.04	0.03	0.02	0.03	0.01	1.38		3.2%	2.1%	1.4%	1.9%	0.9%	100.0%	0.03	0.03	0.01	0.02	0.01	0.80	57.4%	2.2%	1.8%	1.0%	1.5%	0.5%	57.4%
35			153		5	0.03	0.03	0.01	0.00	0.01	1.65		1.6%	1.9%	0.7%	0.2%	0.4%	100.0%	0.02	0.03	0.01	0.00	0.00	1.15	69.7%	1.1%	1.5%	0.5%	0.2%	0.2%	69.7%
36			154		5	0.02	0.04	0.02	0.01	0.00	1.55		1.5%	2.4%	1.1%	0.3%	0.3%	100.0%	0.02	0.03	0.01	0.00	0.00	1.08	69.6%	1.2%	1.9%	0.8%	0.3%	0.1%	69.6%
37			155		5	0.03	0.04	0.05	0.00	0.01	1.62		1.9%	2.7%	2.8%	0.1%	0.4%	100.0%	0.02	0.04	0.03	0.00	0.00	1.12	69.3%	1.5%	2.4%	2.1%	0.1%	0.2%	69.3%
38			156		5	0.02	0.03	0.19	0.00	0.02	1.81		0.8%	1.5%	10.2%	0.2%	1.3%	100.0%	0.01	0.02	0.14	0.00	0.01	1.02	56.2%	0.5%	0.9%	7.6%	0.2%	0.6%	56.2%
39			162		5	0.02	0.03	0.01	0.01	0.01	1.76		1.1%	1.7%	0.7%	0.8%	0.4%	100.0%	0.02	0.03	0.01	0.01	0.00	1.14	64.9%	0.9%	1.4%	0.6%	0.6%	0.2%	64.9%
40			163		5	0.03	0.04	0.01	0.00	0.01	1.65		1.6%	2.2%	0.5%	0.1%	0.4%	100.0%	0.02	0.03	0.01	0.00	0.00	1.15	69.7%	1.2%	1.8%	0.4%	0.1%	0.2%	69.7%
41			164		5	0.02	0.04	0.02	0.00	0.00	1.56		1.5%	2.4%	1.2%	0.2%	0.2%	100.0%	0.02	0.03	0.01	0.00	0.00	1.09	69.6%	1.2%	1.9%	0.9%	0.1%	0.1%	69.6%
42			165		5	0.04	0.05	0.08	0.01	0.01	1.77		2.1%	2.6%	4.6%	0.3%	0.4%	100.0%	0.03	0.04	0.06	0.00	0.00	1.20	67.9%	1.5%	2.2%	3.3%	0.2%	0.2%	67.9%
43			0	128	2	0.01	0.02	0.04	0.00	0.01	0.71		1.8%	2.3%	4.9%	0.6%	2.0%	100.0%	0.01	0.01	0.02	0.00	0.01	0.40	56.4%	1.6%	2.0%	3.4%	0.4%	1.0%	56.4%
44			2	130	2	0.01	0.02	0.04	0.01	0.01	0.63		2.1%	3.0%	6.2%	0.8%	1.4%	100.0%	0.01	0.02	0.03	0.00	0.00	0.34	54.5%	1.6%	2.5%	4.5%	0.6%	0.6%	54.5%
45			4	132	2	0.01	0.02	0.02	0.01	0.01	0.63		1.3%	2.9%	3.3%	1.1%	0.8%	100.0%	0.01	0.02	0.02	0.01	0.00	0.35	54.7%	1.1%	2.5%	2.5%	0.8%	0.5%	54.7%
46			6	134	2	0.01	0.02	0.02	0.01	0.00	0.59		1.9%	3.7%	3.7%	0.8%	0.7%	100.0%	0.01	0.02	0.02	0.00	0.00	0.34	57.2%	1.3%	3.4%	2.7%	0.7%	0.3%	57.2%
47			8	136	2	0.01	0.02	0.02	0.01	0.00	0.59		2.0%	2.7%	3.1%	0.9%	0.7%	100.0%	0.01	0.01	0.02	0.00	0.00	0.30	50.5%	1.5%	2.4%	2.6%	0.5%	0.3%	50.5%
48			10	138	4	0.04	0.04	0.06	0.02	0.01	0.78		5.0%	4.5%	7.2%	2.6%	1.8%	100.0%	0.03	0.03	0.04	0.02	0.01	0.47	60.1%	3.6%	4.1%	5.0%	2.0%	1.2%	60.1%
49			11	139	4	0.03	0.05	0.02	0.01	0.01	1.29		2.0%	3.6%	1.9%	0.5%	0.4%	100.0%	0.02	0.04	0.02	0.01	0.00	0.73	57.1%	1.7%	3.1%	1.6%	0.4%	0.2%	57.1%
50			12	140	4	0.02	0.06	0.04	0.00	0.01	1.40		1.1%	4.1%	2.7%	0.3%	0.4%	100.0%	0.01	0.05	0.03	0.00	0.00	0.91	64.6%	0.8%	3.6%	1.8%	0.2%	0.3%	64.6%
51			13	141	4	0.02	0.03	0.12	0.01	0.03	1.22		1.8%	2.1%	10.0%	0.8%	2.1%	100.0%	0.02	0.02	0.09	0.01	0.01	0.79	64.8%	1.3%	1.9%	7.5%	0.7%	1.1%	64.8%
52			18	146	4	0.02	0.04	0.04	0.02	0.01	1.22		2.0%	3.5%	2.9%	1.4%	0.7%	100.0%	0.02	0.04	0.03	0.01	0.00	0.77	63.6%	1.6%	3.1%	2.1%	1.1%	0.3%	63.6%
53			19	147	4	0.02	0.06	0.04	0.00	0.01	1.30		1.4%	4.4%	2.9%	0.2%	0.6%	100.0%	0.01	0.05	0.02	0.00	0.00	0.78	60.2%	1.1%	3.8%	1.9%	0.2%	0.3%	60.2%
54			20	148	4	0.03	0.04	0.07	0.01	0.01	0.97		2.9%	3.8%	6.8%	0.9%	1.2%	100.0%	0.03	0.03	0.05	0.01	0.01	0.54	55.8%	2.6%	3.3%	5.2%	0.7%	0.6%	55.8%
55			24	152	10	0.12	0.07	0.07	0.04	0.04	2.72		4.5%	2.5%	2.5%	1.5%	1.3%	100.0%	0.09	0.06	0.05	0.03	0.02	1.57	57.8%	3.2%	2.1%	1.7%	1.2%	0.6%	57.8%
56			25	153	10	0.06	0.17	0.04	0.01	0.01	3.71		1.6%	4.7%	1.1%	0.3%	0.4%	100.0%	0.04	0.15	0.03	0.01	0.01	2.65	71.4%	1.2%	4.1%	0.7%	0.2%	0.2%	71.4%
57			26	154	10	0.07	0.31	0.03	0.01	0.03	3.79		1.8%	8.2%	0.8%	0.2%	0.8%	100.0%	0.05	0.27	0.02	0.01	0.02	2.64	69.7%	1.2%	7.2%	0.6%	0.2%	0.6%	69.7%
58			27	155	10	0.06	0.27	0.19	0.01	0.02	3.81		1.7%	7.0%	5.1%	0.2%	0.6%	100.0%	0.05	0.24	0.16	0.01	0.01	2.71	71.1%	1.4%	6.2%	4.1%	0.2%	0.3%	71.1%
59			28	156	10	0.05	0.05	0.31	0.01	0.06	3.64		1.3%	1.5%	8.4%	0.3%	1.7%	100.0%	0.02	0.04	0.21	0.01	0.03	2.09	57.4%	0.7%	1.0%	5.9%	0.3%	0.8%	57.4%
60			34	162	10	0.06	0.11	0.05	0.03	0.02	3.33		1.7%	3.4%	1.6%	0.9%	0.5%	100.0%	0.04	0.09	0.04	0.02	0.01	2.24	67.3%	1.1%	2.8%	1.2%	0.6%	0.3%	67.3%
61			35	163	10	0.08	0.27	0.03	0.01	0.02	3.98		2.0%	6.7%	0.7%	0.1%	0.6%	100.0%	0.06	0.24	0.02	0.01	0.02	2.72	68.4%	1.4%	6.1%	0.5%	0.1%	0.4%	68.4%
62			36	164	10	0.06	0.30	0.08	0.01	0.03	3.75		1.7%	8.1%	2.0%	0.2%	0.8%	100.0%	0.05	0.27	0.05	0.01	0.02	2.65	70.6%	1.3%	7.1%	1.2%	0.2%	0.5%	70.6%
63			37	165	10	0.07	0.16	0.16	0.01	0.02	3.78		1.8%	4.1%	4.3%	0.3%	0.5%	100.0%	0.05	0.14	0.12	0.01	0.01	2.62	69.3%	1.3%	3.7%	3.3%	0.2%	0.3%	69.3%

[Folder Closed Status]

- J–patch Low CH

													max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							5.6%	72.3%	9.7%	3.7%	3.1%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						72.6%	4.0%	42.8%	6.9%	2.7%	1.8%	72.6%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.10	0.01	0.00	0.00	0.30		2.0%	33.3%	3.0%	0.3%	1.0%	100.0%	0.00	0.04	0.01	0.00	0.00	0.15	50.0%	1.3%	14.0%	2.0%	0.3%	0.3%	50.0%
2			2		1	0.00	0.15	0.01	0.00	0.00	0.29		1.4%	51.9%	3.5%	0.4%	1.4%	100.0%	0.00	0.06	0.01	0.00	0.00	0.17	58.6%	1.1%	22.1%	2.1%	0.4%	0.7%	58.6%
3			4		1	0.01	0.15	0.01	0.00	0.00	0.26		2.3%	56.2%	2.7%	0.8%	1.5%	100.0%	0.00	0.07	0.01	0.00	0.00	0.15	56.9%	1.5%	26.5%	2.3%	0.8%	0.8%	56.9%
4			6		1	0.00	0.17	0.01	0.00	0.01	0.30		0.7%	57.9%	2.0%	0.7%	1.7%	100.0%	0.00	0.09	0.01	0.00	0.00	0.18	58.5%	0.7%	28.4%	1.7%	0.7%	1.0%	58.5%
5			8		1	0.00	0.13	0.01	0.00	0.00	0.25		1.2%	49.6%	2.4%	0.8%	1.2%	100.0%	0.00	0.05	0.00	0.00	0.00	0.13	53.2%	1.2%	21.0%	1.6%	0.8%	0.8%	53.2%
6			10		2	0.01	0.17	0.02	0.00	0.01	0.36		3.9%	47.5%	5.2%	1.1%	1.7%	100.0%	0.01	0.09	0.02	0.00	0.00	0.21	58.6%	2.8%	24.6%	4.1%	1.1%	0.8%	58.6%
7			11		2	0.01	0.50	0.00	0.00	0.02	0.81		0.6%	62.5%	0.5%	0.2%	1.9%	100.0%	0.00	0.24	0.00	0.00	0.01	0.49	60.9%	0.4%	29.9%	0.4%	0.1%	1.0%	60.9%
8			12		2	0.01	0.44	0.02	0.00	0.01	0.67		0.9%	65.4%	2.5%	0.3%	2.1%	100.0%	0.00	0.22	0.01	0.00	0.01	0.44	65.1%	0.6%	32.2%	2.1%	0.3%	1.2%	65.1%
9			13		2	0.01	0.18	0.02	0.01	0.01	0.45		2.0%	39.7%	5.3%	1.1%	1.1%	100.0%	0.01	0.10	0.02	0.00	0.00	0.27	60.5%	1.5%	21.4%	3.3%	0.7%	0.7%	60.5%
10			18		2	0.01	0.34	0.01	0.01	0.01	0.54		2.2%	64.1%	1.1%	0.9%	2.1%	100.0%	0.01	0.18	0.01	0.01	0.01	0.34	63.9%	1.3%	33.5%	0.9%	0.9%	1.1%	63.9%
11			19		2	0.00	0.54	0.01	0.00	0.02	0.77		0.5%	69.9%	0.9%	0.0%	2.3%	100.0%	0.00	0.27	0.01	0.00	0.01	0.52	67.1%	0.4%	35.1%	0.6%	0.0%	1.3%	67.1%
12			20		2	0.00	0.17	0.02	0.00	0.01	0.35		1.1%	47.2%	5.7%	1.1%	1.7%	100.0%	0.00	0.08	0.02	0.00	0.00	0.17	48.6%	0.9%	22.4%	4.3%	0.9%	0.9%	48.6%
13			24		5	0.03	0.29	0.03	0.01	0.01	0.80		3.6%	36.6%	4.0%	1.1%	1.3%	100.0%	0.02	0.15	0.02	0.01	0.01	0.42	52.5%	2.8%	18.4%	2.4%	1.1%	0.8%	52.5%
14			25		5	0.02	1.01	0.01	0.01	0.04	1.66		1.1%	60.5%	0.7%	0.3%	2.4%	100.0%	0.01	0.58	0.01	0.00	0.02	1.09	65.5%	0.8%	34.9%	0.5%	0.2%	1.4%	65.5%
15			26		5	0.03	1.44	0.01	0.00	0.06	2.00		1.4%	72.3%	0.6%	0.2%	3.1%	100.0%	0.02	0.85	0.01	0.00	0.04	1.37	68.4%	1.0%	42.8%	0.4%	0.2%	1.8%	68.4%
16			27		5	0.03	1.03	0.02	0.01	0.04	1.64		1.6%	63.0%	1.3%	0.4%	2.6%	100.0%	0.02	0.58	0.02	0.00	0.02	1.10	66.7%	1.2%	35.5%	1.0%	0.2%	1.5%	66.7%
17			28		5	0.01	0.50	0.07	0.01	0.01	1.26		0.9%	39.3%	5.6%	0.6%	1.0%	100.0%	0.01	0.23	0.04	0.01	0.01	0.72	57.1%	0.6%	18.1%	3.4%	0.4%	0.5%	57.1%
18			34		5	0.02	0.62	0.03	0.01	0.02	1.10		1.7%	56.3%	2.6%	0.5%	2.1%	100.0%	0.01	0.34	0.02	0.00	0.01	0.71	64.7%	1.1%	30.9%	1.6%	0.4%	1.2%	64.7%
19			35		5	0.03	1.33	0.01	0.00	0.06	1.86		1.3%	71.6%	0.4%	0.2%	3.0%	100.0%	0.02	0.79	0.01	0.00	0.03	1.28	68.9%	0.9%	42.2%	0.3%	0.1%	1.8%	68.9%
20			36		5	0.03	1.35	0.01	0.01	0.06	1.91		1.5%	70.6%	0.7%	0.3%	3.1%	100.0%	0.02	0.78	0.01	0.00	0.03	1.29	67.9%	1.1%	40.9%	0.5%	0.2%	1.8%	67.9%
21			37		5	0.01	0.71	0.04	0.01	0.02	1.34		1.0%	53.1%	3.1%	0.4%	1.7%	100.0%	0.01	0.38	0.02	0.00	0.01	0.88	65.6%	0.7%	28.5%	1.8%	0.3%	1.0%	65.6%
22			128		1	0.01	0.08	0.01	0.00	0.00	0.32		3.1%	25.2%	4.4%	0.6%	0.6%	100.0%	0.01	0.03	0.01	0.00	0.00	0.17	52.3%	2.5%	10.3%	3.1%	0.6%	0.3%	52.3%
23			130		1	0.00	0.07	0.02	0.00	0.00	0.32		1.3%	23.5%	5.7%	0.6%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.16	49.2%	1.0%	9.2%	3.8%	0.6%	0.3%	49.2%
24			132		1	0.00	0.07	0.02	0.00	0.00	0.32		1.3%	22.8%	5.1%	1.3%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.16	50.9%	0.9%	8.9%	3.8%	0.9%	0.3%	50.9%
25			134		1	0.00	0.08	0.01	0.00	0.00	0.33		1.2%	23.9%	3.4%	1.2%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.17	51.8%	0.9%	9.8%	2.8%	0.9%	0.3%	51.8%
26			136		1	0.01	0.07	0.01	0.01	0.00	0.29		2.7%	23.3%	1.7%	2.4%	0.3%	100.0%	0.01	0.03	0.00	0.01	0.00	0.14	48.3%	1.7%	9.6%	1.4%	2.1%	0.3%	48.3%
27			138		2	0.02	0.15	0.02	0.02	0.00	0.55		4.0%	27.7%	3.8%	3.7%	0.5%	100.0%	0.02	0.07	0.02	0.02	0.00	0.32	58.4%	2.7%	12.6%	2.7%	2.7%	0.5%	58.4%
28			139		2	0.01	0.20	0.01	0.01	0.00	0.66		2.1%	30.8%	2.1%	0.8%	0.5%	100.0%	0.01	0.09	0.01	0.00	0.00	0.41	62.6%	1.7%	13.8%	1.7%	0.6%	0.3%	62.6%
29			140		2	0.01	0.23	0.03	0.00	0.00	0.76		1.0%	29.6%	3.3%	0.1%	0.3%	100.0%	0.01	0.10	0.02	0.00	0.00	0.46	59.6%	0.7%	12.7%	2.2%	0.1%	0.3%	59.6%
30			141		2	0.01	0.18	0.05	0.01	0.01	0.66		1.7%	27.4%	8.1%	0.8%	0.9%	100.0%	0.01	0.08	0.04	0.00	0.00	0.37	56.8%	1.4%	11.9%	5.9%	0.6%	0.6%	56.8%
31			146		2	0.01	0.19	0.02	0.01	0.00	0.67		1.8%	28.7%	2.7%	1.7%	0.3%	100.0%	0.01	0.08	0.01	0.01	0.00	0.42	63.5%	1.2%	12.2%	2.0%	1.4%	0.3%	63.5%
32			147		2	0.01	0.25	0.02	0.00	0.00	0.77		1.2%	32.9%	2.7%	0.1%	0.4%	100.0%	0.01	0.11	0.01	0.00	0.00	0.49	64.2%	1.0%	14.1%	1.8%	0.1%	0.3%	64.2%
33			148		2	0.01	0.17	0.03	0.01	0.00	0.57		1.7%	29.7%	4.4%	2.4%	0.7%	100.0%	0.01	0.07	0.02	0.01	0.00	0.31	54.6%	1.2%	12.4%	3.5%	1.9%	0.5%	54.6%
34			152		5	0.05	0.50	0.01	0.04	0.01	1.72		2.8%	28.8%	0.8%	2.4%	0.8%	100.0%	0.04	0.24	0.01	0.03	0.01	0.96	55.7%	2.1%	13.8%	0.4%	1.7%	0.6%	55.7%
35			153		5	0.02	0.63	0.01	0.01	0.00	1.68		1.3%	37.5%	0.6%	0.3%	0.2%	100.0%	0.02	0.34	0.01	0.00	0.00	1.21	71.8%	0.9%	20.0%	0.5%	0.2%	0.1%	71.8%
36			154		5	0.03	0.67	0.01	0.01	0.01	1.62		1.5%	41.2%	0.9%	0.5%	0.5%	100.0%	0.02	0.37	0.01	0.01	0.00	1.14	70.6%	1.1%	22.8%	0.7%	0.4%	0.2%	70.6%
37			155		5	0.03	0.66	0.03	0.00	0.01	1.75		1.7%	37.5%	1.7%	0.1%	0.6%	100.0%	0.03	0.35	0.02	0.00	0.01	1.20	68.7%	1.4%	20.3%	0.9%	0.1%	0.3%	68.7%
38			156		5	0.03	0.58	0.18	0.01	0.02	1.81		1.4%	32.1%	9.7%	0.7%	0.9%	100.0%	0.02	0.25	0.12	0.01	0.01	1.00	55.3%	0.9%	13.9%	6.9%	0.5%	0.6%	55.3%
39			162		5	0.03	0.62	0.01	0.01	0.01	1.98		1.3%	31.5%	0.7%	0.7%	0.6%	100.0%	0.02	0.32	0.01	0.01	0.01	1.27	64.1%	0.8%	16.0%	0.5%	0.6%	0.4%	64.1%
40			163		5	0.02	0.68	0.01	0.00	0.01	1.69		1.3%	40.1%	0.6%	0.1%	0.4%	100.0%	0.01	0.37	0.01	0.00	0.01	1.20	70.9%	0.8%	22.0%	0.5%	0.1%	0.2%	70.9%
41			164		5	0.03	0.67	0.02	0.01	0.01	1.64		1.6%	40.6%	1.0%	0.4%	0.5%	100.0%	0.02	0.37	0.01	0.01	0.01	1.16	71.0%	1.0%	22.3%	0.7%	0.4%	0.3%	71.0%
42			165		5	0.03	0.71	0.07	0.01	0.01	1.89		1.6%	37.5%	3.9%	0.7%	0.7%	100.0%	0.02	0.36	0.05	0.01	0.01	1.26	66.4%	1.2%	19.2%	2.6%	0.5%	0.5%	66.4%
43			0	128	2	0.02	0.21	0.04	0.01	0.01	0.71		2.8%	29.0%	5.6%	0.8%	0.8%	100.0%	0.02	0.08	0.03	0.01	0.00	0.36	50.5%	2.3%	11.4%	3.5%	0.7%	0.4%	50.5%
44			2	130	2	0.01	0.24	0.03	0.00	0.01	0.66		2.1%	37.2%	5.0%	0.6%	1.1%	100.0%	0.01	0.11	0.02	0.00	0.00	0.37	55.6%	1.7%	16.5%	3.5%	0.5%	0.6%	55.6%
45			4	132	2	0.01	0.25	0.03	0.01	0.01	0.61		2.1%	40.0%	4.1%	0.8%	1.1%	100.0%	0.01	0.11	0.02	0.00	0.00	0.35	56.3%	1.1%	18.3%	2.9%	0.7%	0.7%	56.3%
46			6	134	2	0.01	0.31	0.02	0.01	0.01	0.64		1.7%	48.0%	3.5%	0.9%	1.6%	100.0%	0.01	0.15	0.02	0.01	0.01	0.37	57.7%	1.1%	23.6%	2.7%	0.8%	0.9%	57.7%
47			8	136	2	0.02	0.22	0.02	0.02	0.01	0.59		2.9%	36.5%	2.9%	2.5%	1.0%	100.0%	0.01	0.09	0.01	0.01	0.00	0.33	54.9%	2.0%	15.8%	2.2%	1.9%	0.5%	54.9%
48			10	138	4	0.05	0.37	0.05	0.03	0.01	0.90		5.6%	40.8%	5.5%	3.0%	1.1%	100.0%	0.04	0.18	0.04	0.02	0.01	0.55	61.0%	3.9%	19.9%	4.0%	2.2%	0.7%	61.0%
49			11	139	4	0.02	0.66	0.02	0.01	0.02	1.30		1.8%	50.7%	1.5%	0.7%	1.4%	100.0%	0.02	0.32	0.01	0.01	0.01	0.79	60.8%	1.5%	24.7%	1.1%	0.6%	0.7%	60.8%
50			12	140	4	0.02	0.67	0.05	0.00	0.02	1.49		1.3%	44.8%	3.1%	0.2%	1.5%	100.0%	0.01	0.34	0.03	0.00	0.01	0.96	64.2%	0.9%	22.5%	2.2%	0.1%	0.9%	64.2%
51			13	141	4	0.02	0.43	0.11	0.01	0.01	1.32		1.7%	32.7%	8.0%	1.0%	0.8%	100.0%	0.02	0.21	0.08	0.01	0.01	0.83	62.9%	1.4%	16.0%	5.9%	0.8%	0.5%	62.9%
52			18	146	4	0.03	0.62	0.04	0.02	0.02	1.25		2.5%	49.3%	2.9%	1.2%	1.3%	100.0%	0.02	0.31	0.03	0.01	0.01	0.83	66.3%	1.4%	24.5%	2.1%	1.0%	0.7%	66.3%
53			19	147	4	0.02	0.71	0.03	0.00	0.02	1.38		1.2%	51.4%	2.4%	0.1%	1.6%	100.0%	0.02	0.35	0.02	0.00	0.01	0.88	63.4%	1.1%	25.1%	1.7%	0.1%	0.9%	63.4%
54			20	148	4	0.02	0.45	0.07	0.02	0.01	1.01		2.1%	45.0%	6.5%	2.4%	1.3%	100.0%	0.02	0.20	0.05	0.02	0.01	0.51	50.4%	1.6%	20.1%	4.9%	1.7%	0.6%	50.4%
55			24	152	10	0.15	0.90	0.07	0.05	0.04	2.81		5.3%	32.0%	2.5%	1.8%	1.4%	100.0%	0.11	0.43	0.04	0.04	0.02	1.69	60.1%	4.0%	15.3%	1.5%	1.4%	0.9%	60.1%
56			25	153	10	0.05	1.93	0.03	0.02	0.06	3.63		1.5%	53.3%	0.9%	0.5%	1.7%	100.0%	0.04	1.03	0.02	0.01	0.04	2.63	72.6%	1.1%	28.5%	0.7%	0.4%	1.0%	72.6%
57			26	154	10	0.08	2.40	0.04	0.02	0.11	3.74		2.0%	64.1%	1.1%	0.6%	2.9%	100.0%	0.06	1.41	0.03	0.02	0.06	2.70	72.3%	1.5%	37.6%	0.8%	0.4%	1.7%	72.3%
58			27	155	10	0.09	1.94	0.06	0.01	0.08	3.67		2.5%	52.9%	1.7%	0.3%	2.2%	100.0%	0.08	1.07	0.05	0.01	0.05	2.64	71.9%	2.1%	29.2%	1.4%	0.2%	1.2%	71.9%
59			28	156	10	0.06	1.36	0.31	0.03	0.04	3.56		1.6%	38.1%	8.7%	0.7%	1.0%	100.0%	0.04	0.60	0.21	0.02	0.02	2.04	57.4%	1.0%	16.8%	5.9%	0.5%	0.5%	57.4%
60			34	162	10	0.08	1.46	0.05	0.02	0.05	3.39		2.3%	43.0%	1.6%	0.7%	1.6%	100.0%	0.06	0.72	0.03	0.02	0.03	2.37	69.8%	1.6%	21.2%	1.0%	0.6%	0.9%	69.8%
61			35	163	10	0.08	2.35	0.03	0.01	0.09	3.76		2.1%	62.4%	0.8%	0.2%	2.4%	100.0%	0.05	1.34	0.02	0.01	0.05	2.68	71.1%	1.4%	35.6%	0.4%	0.2%	1.4%	71.1%
62			36	164	10	0.09	2.29	0.03	0.02	0.11	3.64		2.3%	62.9%	0.9%	0.5%	2.9%	100.0%	0.06	1.33	0.02	0.02	0.06	2.63	72.2%	1.7%	36.5%	0.6%	0.4%	1.6%	72.2%
63			37	165	10	0.06	1.70	0.15	0.03	0.06	3.66		1.7%	46.4%	4.0%	0.9%	1.7%	100.0%	0.05	0.86	0.10	0.02	0.03	2.55	69.7%	1.3%	23.6%	2.7%	0.7%	0.9%	69.7%

- J–patch Mid CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							5.7%	70.8%	10.2%	2.5%	3.1%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						72.8%	4.1%	41.9%	7.5%	1.8%	1.8%	72.8%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.12	0.01	0.00	0.00	0.34		2.1%	34.9%	2.6%	0.6%	0.6%	100.0%	0.00	0.05	0.01	0.00	0.00	0.18	54.0%	1.2%	13.2%	1.8%	0.3%	0.3%	54.0%
2			2		1	0.00	0.15	0.01	0.00	0.00	0.27		1.5%	54.9%	2.9%	0.4%	1.5%	100.0%	0.00	0.07	0.01	0.00	0.00	0.16	58.6%	1.1%	25.3%	1.8%	0.4%	0.7%	58.6%
3			4		1	0.01	0.15	0.01	0.00	0.00	0.26		2.0%	56.9%	2.7%	0.8%	1.6%	100.0%	0.00	0.07	0.01	0.00	0.00	0.14	56.1%	1.6%	25.9%	2.0%	0.8%	0.8%	56.1%
4			6		1	0.00	0.16	0.01	0.00	0.01	0.28		1.4%	57.3%	2.2%	0.7%	1.8%	100.0%	0.00	0.08	0.01	0.00	0.00	0.16	57.3%	1.1%	29.0%	1.8%	0.7%	1.1%	57.3%
5			8		1	0.00	0.13	0.01	0.00	0.00	0.25		0.8%	50.4%	2.4%	0.4%	1.2%	100.0%	0.00	0.05	0.01	0.00	0.00	0.14	54.4%	0.8%	21.4%	2.0%	0.4%	0.8%	54.4%
6			10		2	0.01	0.17	0.02	0.00	0.01	0.34		3.8%	49.7%	4.7%	1.2%	1.8%	100.0%	0.01	0.09	0.01	0.00	0.00	0.20	57.3%	2.9%	25.7%	3.8%	1.2%	1.2%	57.3%
7			11		2	0.01	0.50	0.01	0.00	0.02	0.80		0.9%	62.1%	0.6%	0.1%	1.9%	100.0%	0.01	0.24	0.00	0.00	0.01	0.49	60.8%	0.6%	29.4%	0.4%	0.1%	1.0%	60.8%
8			12		2	0.01	0.42	0.02	0.00	0.01	0.65		1.2%	65.1%	2.8%	0.3%	2.2%	100.0%	0.01	0.21	0.01	0.00	0.01	0.41	63.6%	0.8%	32.1%	2.2%	0.3%	1.1%	63.6%
9			13		2	0.01	0.19	0.02	0.00	0.01	0.48		2.1%	39.8%	4.6%	0.8%	1.1%	100.0%	0.01	0.10	0.01	0.00	0.00	0.28	59.6%	1.5%	21.3%	2.9%	0.6%	0.6%	59.6%
10			18		2	0.01	0.32	0.01	0.01	0.01	0.50		2.2%	64.8%	1.2%	1.0%	2.2%	100.0%	0.01	0.17	0.01	0.00	0.01	0.32	64.4%	1.8%	33.7%	1.0%	0.8%	1.2%	64.4%
11			19		2	0.01	0.51	0.01	0.00	0.02	0.73		1.0%	70.8%	1.1%	0.0%	2.5%	100.0%	0.00	0.27	0.01	0.00	0.01	0.49	66.9%	0.6%	36.5%	0.7%	0.0%	1.2%	66.9%
12			20		2	0.01	0.15	0.02	0.00	0.01	0.34		1.5%	45.0%	6.2%	1.2%	1.5%	100.0%	0.00	0.08	0.02	0.00	0.00	0.17	48.8%	1.2%	22.5%	4.4%	0.9%	0.9%	48.8%
13			24		5	0.03	0.28	0.04	0.01	0.01	0.84		3.6%	32.9%	4.7%	1.0%	0.8%	100.0%	0.02	0.13	0.02	0.01	0.00	0.38	45.4%	2.7%	15.5%	2.9%	0.8%	0.5%	45.4%
14			25		5	0.02	0.99	0.01	0.00	0.04	1.66		1.0%	59.3%	0.7%	0.2%	2.2%	100.0%	0.01	0.58	0.01	0.00	0.02	1.11	66.5%	0.7%	34.8%	0.5%	0.2%	1.3%	66.5%
15			26		5	0.03	1.41	0.01	0.00	0.06	1.99		1.7%	70.6%	0.4%	0.1%	3.1%	100.0%	0.02	0.84	0.01	0.00	0.04	1.30	65.3%	1.2%	41.9%	0.3%	0.1%	1.8%	65.3%
16			27		5	0.03	1.10	0.02	0.00	0.04	1.75		1.7%	63.0%	1.1%	0.2%	2.5%	100.0%	0.02	0.62	0.02	0.00	0.03	1.17	66.8%	1.2%	35.4%	0.9%	0.1%	1.4%	66.8%
17			28		5	0.01	0.43	0.07	0.01	0.01	1.23		0.9%	35.2%	5.9%	0.6%	0.8%	100.0%	0.01	0.20	0.04	0.01	0.01	0.68	55.0%	0.6%	16.3%	3.6%	0.4%	0.5%	55.0%
18			34		5	0.02	0.58	0.03	0.00	0.02	1.02		1.7%	57.1%	3.2%	0.3%	2.0%	100.0%	0.01	0.33	0.02	0.00	0.01	0.67	66.2%	1.2%	32.0%	2.0%	0.2%	1.1%	66.2%
19			35		5	0.03	1.31	0.01	0.00	0.06	1.88		1.8%	69.8%	0.4%	0.2%	3.1%	100.0%	0.02	0.78	0.01	0.00	0.03	1.24	65.6%	1.2%	41.2%	0.3%	0.1%	1.8%	65.6%
20			36		5	0.03	1.33	0.01	0.00	0.06	1.90		1.6%	69.6%	0.6%	0.2%	2.9%	100.0%	0.02	0.78	0.01	0.00	0.03	1.27	66.5%	1.2%	40.9%	0.4%	0.2%	1.7%	66.5%
21			37		5	0.02	0.73	0.04	0.01	0.02	1.44		1.0%	51.0%	2.7%	0.3%	1.6%	100.0%	0.01	0.39	0.03	0.00	0.01	0.94	65.2%	0.8%	27.4%	1.8%	0.3%	1.0%	65.2%
22			128		1	0.01	0.08	0.02	0.00	0.00	0.30		3.0%	26.6%	5.4%	0.7%	0.7%	100.0%	0.01	0.03	0.01	0.00	0.00	0.16	53.2%	2.7%	11.1%	3.7%	0.7%	0.3%	53.2%
23			130		1	0.00	0.08	0.02	0.00	0.00	0.30		1.3%	27.0%	5.7%	0.7%	0.7%	100.0%	0.00	0.03	0.01	0.00	0.00	0.14	47.7%	1.0%	10.7%	4.0%	0.7%	0.3%	47.7%
24			132		1	0.00	0.08	0.02	0.00	0.00	0.31		1.3%	25.6%	5.2%	1.0%	0.6%	100.0%	0.00	0.03	0.01	0.00	0.00	0.16	51.8%	1.3%	10.7%	4.2%	0.6%	0.3%	51.8%
25			134		1	0.01	0.08	0.01	0.00	0.00	0.31		1.6%	27.1%	3.5%	0.6%	0.6%	100.0%	0.00	0.04	0.01	0.00	0.00	0.16	51.6%	1.0%	11.6%	2.9%	0.6%	0.3%	51.6%
26			136		1	0.01	0.07	0.01	0.00	0.00	0.28		2.5%	25.2%	2.1%	1.4%	0.4%	100.0%	0.01	0.03	0.01	0.00	0.00	0.14	50.7%	1.8%	10.6%	1.8%	1.1%	0.4%	50.7%
27			138		2	0.02	0.14	0.02	0.01	0.00	0.49		4.3%	28.8%	4.5%	2.5%	0.6%	100.0%	0.01	0.07	0.02	0.01	0.00	0.29	60.1%	2.9%	13.9%	3.5%	1.8%	0.4%	60.1%
28			139		2	0.02	0.19	0.01	0.00	0.00	0.61		2.9%	30.8%	2.3%	0.7%	0.3%	100.0%	0.02	0.09	0.01	0.00	0.00	0.37	61.0%	2.4%	13.9%	1.5%	0.5%	0.2%	61.0%
29			140		2	0.01	0.24	0.02	0.00	0.00	0.74		1.1%	32.2%	3.3%	0.1%	0.4%	100.0%	0.01	0.10	0.02	0.00	0.00	0.44	60.1%	0.8%	13.6%	2.2%	0.1%	0.3%	60.1%
30			141		2	0.01	0.19	0.06	0.01	0.01	0.62		1.5%	31.1%	9.5%	1.0%	1.0%	100.0%	0.01	0.08	0.04	0.01	0.00	0.35	56.8%	1.3%	13.3%	6.3%	0.8%	0.6%	56.8%
31			146		2	0.01	0.20	0.02	0.01	0.00	0.62		1.8%	32.0%	3.2%	1.1%	0.5%	100.0%	0.01	0.09	0.02	0.01	0.00	0.39	64.0%	1.5%	14.3%	2.4%	1.0%	0.3%	64.0%
32			147		2	0.01	0.26	0.02	0.00	0.00	0.72		1.4%	35.8%	2.9%	0.1%	0.6%	100.0%	0.01	0.11	0.01	0.00	0.00	0.46	63.9%	1.0%	15.6%	1.9%	0.1%	0.3%	63.9%
33			148		2	0.01	0.19	0.03	0.01	0.00	0.59		1.9%	31.6%	4.7%	1.0%	0.7%	100.0%	0.01	0.08	0.02	0.00	0.00	0.32	54.4%	1.2%	13.8%	3.7%	0.7%	0.5%	54.4%
34			152		5	0.05	0.41	0.01	0.03	0.02	1.51		3.0%	27.4%	0.9%	1.8%	1.0%	100.0%	0.03	0.20	0.01	0.02	0.01	0.84	55.6%	2.2%	13.4%	0.7%	1.3%	0.6%	55.6%
35			153		5	0.03	0.64	0.01	0.01	0.01	1.66		1.6%	38.8%	0.7%	0.4%	0.3%	100.0%	0.02	0.34	0.01	0.00	0.00	1.17	70.8%	1.1%	20.6%	0.5%	0.2%	0.2%	70.8%
36			154		5	0.02	0.70	0.02	0.01	0.01	1.56		1.3%	44.8%	1.1%	0.4%	0.6%	100.0%	0.02	0.40	0.01	0.01	0.01	1.10	70.4%	1.0%	25.8%	0.8%	0.3%	0.3%	70.4%
37			155		5	0.03	0.69	0.03	0.00	0.01	1.68		1.8%	41.2%	1.8%	0.1%	0.6%	100.0%	0.02	0.38	0.02	0.00	0.01	1.16	69.1%	1.4%	22.9%	1.0%	0.1%	0.4%	69.1%
38			156		5	0.02	0.65	0.19	0.01	0.02	1.85		1.1%	35.3%	10.2%	0.4%	1.0%	100.0%	0.01	0.28	0.14	0.01	0.01	1.02	55.0%	0.6%	15.1%	7.5%	0.3%	0.6%	55.0%
39			162		5	0.02	0.57	0.01	0.01	0.01	1.85		1.3%	30.8%	0.7%	0.5%	0.7%	100.0%	0.02	0.29	0.01	0.01	0.01	1.20	64.6%	1.0%	15.7%	0.5%	0.4%	0.4%	64.6%
40			163		5	0.03	0.71	0.01	0.00	0.01	1.67		1.6%	42.7%	0.6%	0.1%	0.4%	100.0%	0.02	0.40	0.01	0.00	0.00	1.17	70.4%	1.1%	24.1%	0.5%	0.1%	0.2%	70.4%
41			164		5	0.02	0.69	0.02	0.01	0.01	1.57		1.5%	43.8%	1.0%	0.3%	0.6%	100.0%	0.02	0.39	0.01	0.00	0.01	1.10	70.5%	1.1%	25.1%	0.7%	0.3%	0.3%	70.5%
42			165		5	0.04	0.75	0.08	0.01	0.01	1.83		2.1%	40.8%	4.4%	0.4%	0.7%	100.0%	0.03	0.39	0.05	0.01	0.01	1.22	67.0%	1.5%	21.2%	2.7%	0.3%	0.4%	67.0%
43			0	128	2	0.02	0.21	0.04	0.01	0.01	0.72		2.1%	29.3%	5.0%	0.8%	0.8%	100.0%	0.01	0.09	0.03	0.01	0.00	0.39	53.8%	1.8%	12.6%	3.6%	0.7%	0.6%	53.8%
44			2	130	2	0.02	0.26	0.04	0.00	0.01	0.64		2.4%	40.1%	6.0%	0.6%	1.1%	100.0%	0.01	0.12	0.03	0.00	0.00	0.35	54.4%	1.7%	18.8%	4.2%	0.5%	0.6%	54.4%
45			4	132	2	0.01	0.25	0.02	0.01	0.01	0.62		1.6%	40.3%	3.5%	0.8%	1.1%	100.0%	0.01	0.11	0.02	0.00	0.00	0.35	56.0%	1.5%	17.1%	2.7%	0.6%	0.6%	56.0%
46			6	134	2	0.01	0.30	0.02	0.01	0.01	0.61		1.8%	49.8%	3.5%	0.8%	1.5%	100.0%	0.01	0.15	0.02	0.00	0.01	0.35	57.2%	1.2%	24.9%	2.6%	0.7%	0.8%	57.2%
47			8	136	2	0.02	0.22	0.02	0.01	0.01	0.58		2.6%	37.9%	3.3%	1.2%	1.0%	100.0%	0.01	0.09	0.01	0.01	0.00	0.31	54.1%	1.7%	16.0%	2.4%	0.9%	0.5%	54.1%
48			10	138	4	0.05	0.33	0.05	0.02	0.01	0.80		5.7%	41.5%	6.5%	2.2%	1.4%	100.0%	0.03	0.18	0.04	0.01	0.01	0.50	62.6%	4.1%	22.2%	4.7%	1.7%	0.7%	62.6%
49			11	139	4	0.03	0.67	0.02	0.01	0.02	1.25		2.3%	53.1%	1.4%	0.5%	1.6%	100.0%	0.03	0.33	0.01	0.01	0.01	0.76	60.8%	2.1%	25.9%	1.0%	0.4%	0.9%	60.8%
50			12	140	4	0.02	0.65	0.04	0.00	0.02	1.44		1.5%	44.9%	3.0%	0.2%	1.5%	100.0%	0.02	0.31	0.03	0.00	0.01	0.93	64.7%	1.0%	21.6%	2.0%	0.1%	0.8%	64.7%
51			13	141	4	0.03	0.48	0.12	0.01	0.02	1.28		1.9%	37.7%	9.7%	0.8%	1.2%	100.0%	0.02	0.24	0.09	0.01	0.01	0.82	63.5%	1.4%	18.4%	7.2%	0.6%	0.8%	63.5%
52			18	146	4	0.03	0.60	0.04	0.01	0.02	1.20		2.4%	50.1%	2.9%	1.1%	1.4%	100.0%	0.02	0.30	0.03	0.01	0.01	0.80	66.6%	1.6%	24.9%	2.2%	0.9%	0.7%	66.6%
53			19	147	4	0.02	0.69	0.04	0.00	0.02	1.29		1.4%	53.0%	2.9%	0.2%	1.9%	100.0%	0.01	0.34	0.02	0.00	0.01	0.82	63.8%	1.1%	26.4%	1.9%	0.1%	1.0%	63.8%
54			20	148	4	0.02	0.43	0.07	0.01	0.01	0.99		2.2%	43.7%	6.8%	1.1%	1.3%	100.0%	0.02	0.20	0.05	0.01	0.01	0.54	53.9%	1.8%	20.1%	5.2%	0.8%	0.7%	53.9%
55			24	152	10	0.14	0.71	0.08	0.04	0.04	2.76		5.1%	25.7%	2.9%	1.3%	1.3%	100.0%	0.11	0.35	0.05	0.03	0.02	1.63	59.0%	3.9%	12.5%	1.7%	1.1%	0.8%	59.0%
56			25	153	10	0.06	1.98	0.03	0.02	0.06	3.68		1.7%	53.8%	0.9%	0.5%	1.6%	100.0%	0.04	1.08	0.02	0.01	0.04	2.68	72.8%	1.2%	29.5%	0.6%	0.4%	1.0%	72.8%
57			26	154	10	0.08	2.46	0.03	0.01	0.11	3.70		2.3%	66.4%	0.9%	0.4%	3.0%	100.0%	0.06	1.46	0.02	0.01	0.07	2.66	71.8%	1.6%	39.3%	0.6%	0.3%	1.8%	71.8%
58			27	155	10	0.08	2.13	0.06	0.01	0.08	3.71		2.1%	57.4%	1.6%	0.2%	2.3%	100.0%	0.06	1.17	0.05	0.01	0.05	2.67	72.0%	1.7%	31.6%	1.2%	0.1%	1.3%	72.0%
59			28	156	10	0.05	1.34	0.31	0.02	0.03	3.72		1.4%	36.1%	8.3%	0.4%	0.9%	100.0%	0.03	0.59	0.21	0.01	0.02	2.13	57.1%	0.9%	16.0%	5.6%	0.3%	0.5%	57.1%
60			34	162	10	0.07	1.35	0.06	0.02	0.05	3.34		2.0%	40.5%	1.8%	0.6%	1.4%	100.0%	0.05	0.68	0.05	0.01	0.03	2.31	69.2%	1.5%	20.3%	1.4%	0.4%	0.9%	69.2%
61			35	163	10	0.10	2.44	0.03	0.01	0.10	3.84		2.5%	63.6%	0.7%	0.2%	2.5%	100.0%	0.07	1.41	0.02	0.01	0.06	2.71	70.7%	1.7%	36.8%	0.4%	0.1%	1.5%	70.7%
62			36	164	10	0.09	2.37	0.03	0.02	0.10	3.59		2.4%	65.9%	0.8%	0.4%	2.9%	100.0%	0.06	1.40	0.02	0.01	0.06	2.59	72.2%	1.8%	39.0%	0.6%	0.3%	1.7%	72.2%
63			37	165	10	0.07	1.79	0.14	0.01	0.06	3.80		1.9%	47.1%	3.6%	0.4%	1.5%	100.0%	0.06	0.92	0.09	0.01	0.03	2.63	69.2%	1.4%	24.2%	2.2%	0.3%	0.9%	69.2%

- J–patch High CH

													max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							5.3%	70.1%	10.4%	2.7%	3.1%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						73.8%	3.7%	41.0%	7.6%	2.1%	1.8%	73.8%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.01	0.13	0.01	0.00	0.00	0.34		1.7%	38.4%	2.6%	0.3%	0.9%	100.0%	0.00	0.05	0.01	0.00	0.00	0.20	58.1%	1.2%	15.7%	1.5%	0.3%	0.6%	58.1%
2			2		1	0.00	0.14	0.01	0.00	0.00	0.26		1.1%	54.8%	2.7%	0.4%	1.5%	100.0%	0.00	0.07	0.01	0.00	0.00	0.15	57.9%	1.1%	26.4%	1.9%	0.4%	0.8%	57.9%
3			4		1	0.01	0.15	0.01	0.00	0.00	0.26		2.0%	56.6%	2.3%	0.8%	1.6%	100.0%	0.00	0.07	0.01	0.00	0.00	0.14	56.3%	1.2%	26.6%	2.0%	0.8%	0.8%	56.3%
4			6		1	0.01	0.15	0.01	0.00	0.01	0.27		1.9%	55.5%	2.6%	0.8%	1.9%	100.0%	0.00	0.08	0.01	0.00	0.00	0.15	56.2%	1.1%	28.7%	1.9%	0.4%	0.8%	56.2%
5			8		1	0.00	0.13	0.01	0.00	0.00	0.24		1.3%	53.3%	2.5%	0.4%	1.3%	100.0%	0.00	0.06	0.00	0.00	0.00	0.13	52.9%	0.8%	23.3%	1.7%	0.4%	0.8%	52.9%
6			10		2	0.01	0.17	0.01	0.00	0.01	0.32		3.5%	54.6%	4.4%	1.0%	2.2%	100.0%	0.01	0.09	0.01	0.00	0.00	0.18	58.4%	2.5%	29.5%	3.5%	1.0%	1.3%	58.4%
7			11		2	0.01	0.49	0.00	0.00	0.02	0.80		0.9%	61.2%	0.5%	0.1%	1.9%	100.0%	0.01	0.23	0.00	0.00	0.01	0.48	59.8%	0.6%	29.1%	0.4%	0.1%	1.0%	59.8%
8			12		2	0.01	0.40	0.02	0.00	0.01	0.62		1.1%	64.6%	2.6%	0.5%	2.1%	100.0%	0.01	0.21	0.01	0.00	0.01	0.39	63.3%	0.8%	33.3%	2.1%	0.3%	1.1%	63.3%
9			13		2	0.01	0.18	0.02	0.00	0.01	0.45		2.0%	40.3%	4.5%	0.4%	1.1%	100.0%	0.01	0.10	0.01	0.00	0.00	0.26	58.1%	1.6%	21.6%	2.9%	0.4%	0.7%	58.1%
10			18		2	0.01	0.30	0.01	0.00	0.01	0.48		2.3%	62.2%	1.7%	0.8%	2.1%	100.0%	0.01	0.16	0.01	0.00	0.01	0.30	62.0%	1.7%	33.0%	1.3%	0.8%	1.3%	62.0%
11			19		2	0.01	0.49	0.01	0.00	0.02	0.70		0.9%	70.1%	1.0%	0.1%	2.4%	100.0%	0.00	0.26	0.01	0.00	0.01	0.47	66.5%	0.6%	37.8%	0.7%	0.1%	1.3%	66.5%
12			20		2	0.01	0.14	0.02	0.01	0.01	0.32		2.5%	44.6%	6.2%	1.5%	1.5%	100.0%	0.01	0.08	0.02	0.00	0.00	0.15	47.1%	1.9%	23.2%	4.6%	1.2%	0.9%	47.1%
13			24		5	0.02	0.24	0.04	0.01	0.01	0.84		2.9%	28.9%	4.8%	0.7%	0.7%	100.0%	0.02	0.12	0.03	0.01	0.00	0.41	48.6%	2.2%	13.8%	3.0%	0.6%	0.5%	48.6%
14			25		5	0.01	0.97	0.01	0.00	0.03	1.61		0.9%	60.1%	0.9%	0.1%	2.1%	100.0%	0.01	0.56	0.01	0.00	0.02	1.08	67.4%	0.6%	34.8%	0.6%	0.1%	1.2%	67.4%
15			26		5	0.03	1.39	0.01	0.00	0.06	2.02		1.6%	68.9%	0.4%	0.0%	2.9%	100.0%	0.02	0.83	0.01	0.00	0.03	1.29	64.0%	1.1%	41.0%	0.2%	0.0%	1.7%	64.0%
16			27		5	0.03	1.13	0.02	0.00	0.04	1.82		1.7%	62.3%	1.0%	0.1%	2.4%	100.0%	0.02	0.63	0.01	0.00	0.03	1.20	65.9%	1.1%	34.8%	0.7%	0.1%	1.4%	65.9%
17			28		5	0.01	0.36	0.07	0.01	0.01	1.10		1.1%	32.9%	6.0%	0.6%	0.7%	100.0%	0.01	0.16	0.04	0.01	0.01	0.58	53.3%	0.7%	14.3%	3.5%	0.5%	0.5%	53.3%
18			34		5	0.02	0.50	0.03	0.00	0.02	0.92		1.6%	54.7%	3.5%	0.2%	1.7%	100.0%	0.01	0.29	0.02	0.00	0.01	0.59	64.4%	1.0%	31.6%	2.1%	0.2%	1.0%	64.4%
19			35		5	0.03	1.31	0.01	0.00	0.06	1.93		1.6%	67.6%	0.4%	0.1%	2.9%	100.0%	0.02	0.77	0.01	0.00	0.03	1.23	63.7%	1.1%	40.0%	0.3%	0.1%	1.7%	63.7%
20			36		5	0.03	1.32	0.01	0.00	0.05	1.93		1.5%	68.4%	0.4%	0.1%	2.7%	100.0%	0.02	0.78	0.01	0.00	0.03	1.27	65.7%	1.0%	40.6%	0.3%	0.1%	1.6%	65.7%
21			37		5	0.01	0.70	0.04	0.01	0.02	1.42		1.0%	49.4%	2.5%	0.4%	1.4%	100.0%	0.01	0.38	0.02	0.01	0.01	0.92	64.5%	0.8%	26.4%	1.7%	0.4%	0.8%	64.5%
22			128		1	0.01	0.07	0.02	0.00	0.00	0.27		2.9%	26.6%	5.8%	0.7%	0.7%	100.0%	0.01	0.03	0.01	0.00	0.00	0.15	54.4%	2.6%	11.7%	3.6%	0.4%	0.4%	54.4%
23			130		1	0.01	0.08	0.02	0.00	0.00	0.29		1.7%	28.4%	5.9%	0.7%	0.7%	100.0%	0.00	0.03	0.01	0.00	0.00	0.14	48.4%	1.0%	11.8%	4.2%	0.7%	0.3%	48.4%
24			132		1	0.00	0.08	0.01	0.00	0.00	0.30		1.3%	27.0%	4.7%	1.3%	0.7%	100.0%	0.00	0.03	0.01	0.00	0.00	0.16	52.0%	1.3%	11.3%	3.7%	1.0%	0.3%	52.0%
25			134		1	0.00	0.09	0.01	0.00	0.00	0.30		1.3%	28.6%	3.9%	1.0%	0.3%	100.0%	0.00	0.04	0.01	0.00	0.00	0.16	52.0%	1.0%	12.2%	3.0%	0.7%	0.3%	52.0%
26			136		1	0.01	0.07	0.01	0.00	0.00	0.28		2.2%	26.5%	2.5%	1.1%	0.4%	100.0%	0.00	0.03	0.01	0.00	0.00	0.14	50.9%	1.4%	11.1%	1.8%	1.1%	0.4%	50.9%
27			138		2	0.02	0.14	0.02	0.01	0.00	0.46		3.4%	29.1%	5.2%	2.6%	0.6%	100.0%	0.01	0.07	0.02	0.01	0.00	0.28	59.7%	2.4%	14.2%	3.9%	1.9%	0.4%	59.7%
28			139		2	0.02	0.19	0.01	0.00	0.00	0.59		3.1%	31.4%	2.2%	0.5%	0.3%	100.0%	0.02	0.08	0.01	0.00	0.00	0.36	61.4%	2.5%	14.2%	1.5%	0.5%	0.2%	61.4%
29			140		2	0.01	0.24	0.02	0.00	0.00	0.71		1.0%	34.0%	3.1%	0.3%	0.4%	100.0%	0.01	0.10	0.02	0.00	0.00	0.43	61.3%	0.7%	14.0%	2.1%	0.1%	0.3%	61.3%
30			141		2	0.01	0.20	0.06	0.01	0.01	0.57		1.7%	34.3%	10.1%	0.9%	1.2%	100.0%	0.01	0.08	0.04	0.00	0.01	0.33	58.0%	1.2%	14.3%	6.6%	0.7%	0.9%	58.0%
31			146		2	0.01	0.20	0.02	0.01	0.00	0.60		2.0%	33.7%	3.3%	1.5%	0.7%	100.0%	0.01	0.09	0.02	0.01	0.00	0.38	63.9%	1.7%	15.7%	2.5%	1.2%	0.5%	63.9%
32			147		2	0.01	0.25	0.02	0.00	0.00	0.69		1.4%	35.7%	2.9%	0.1%	0.6%	100.0%	0.01	0.11	0.01	0.00	0.00	0.44	63.4%	1.2%	15.7%	1.9%	0.1%	0.3%	63.4%
33			148		2	0.01	0.21	0.03	0.01	0.00	0.61		1.6%	33.9%	4.9%	0.8%	0.7%	100.0%	0.01	0.09	0.02	0.00	0.00	0.33	53.8%	1.3%	14.1%	3.6%	0.7%	0.3%	53.8%
34			152		5	0.04	0.36	0.02	0.02	0.02	1.39		3.2%	25.9%	1.6%	1.7%	1.1%	100.0%	0.03	0.18	0.02	0.02	0.01	0.79	56.9%	2.3%	12.7%	1.1%	1.3%	0.6%	56.9%
35			153		5	0.03	0.66	0.01	0.00	0.01	1.65		1.6%	40.3%	0.7%	0.2%	0.4%	100.0%	0.02	0.36	0.01	0.00	0.00	1.16	70.4%	1.2%	21.5%	0.5%	0.2%	0.2%	70.4%
36			154		5	0.02	0.70	0.02	0.01	0.01	1.53		1.4%	45.4%	1.1%	0.3%	0.7%	100.0%	0.02	0.41	0.01	0.00	0.01	1.07	70.0%	1.1%	26.8%	0.8%	0.3%	0.4%	70.0%
37			155		5	0.03	0.69	0.03	0.00	0.01	1.61		2.0%	42.5%	1.7%	0.1%	0.7%	100.0%	0.03	0.38	0.02	0.00	0.01	1.12	69.2%	1.6%	23.7%	1.1%	0.1%	0.4%	69.2%
38			156		5	0.02	0.70	0.19	0.01	0.02	1.81		1.0%	38.3%	10.4%	0.3%	1.0%	100.0%	0.01	0.31	0.14	0.00	0.01	1.03	56.6%	0.5%	17.2%	7.6%	0.2%	0.7%	56.6%
39			162		5	0.02	0.55	0.01	0.01	0.01	1.77		1.2%	31.1%	0.8%	0.6%	0.7%	100.0%	0.02	0.28	0.01	0.01	0.01	1.15	64.9%	0.9%	16.0%	0.6%	0.5%	0.4%	64.9%
40			163		5	0.03	0.72	0.01	0.00	0.01	1.64		1.5%	44.1%	0.5%	0.1%	0.5%	100.0%	0.02	0.42	0.01	0.00	0.00	1.15	70.4%	1.2%	25.5%	0.4%	0.1%	0.2%	70.4%
41			164		5	0.02	0.69	0.02	0.00	0.01	1.55		1.5%	44.4%	1.0%	0.2%	0.7%	100.0%	0.02	0.40	0.01	0.00	0.01	1.08	70.0%	1.2%	25.8%	0.8%	0.1%	0.4%	70.0%
42			165		5	0.04	0.77	0.08	0.01	0.01	1.78		2.1%	43.4%	4.6%	0.3%	0.8%	100.0%	0.03	0.40	0.05	0.00	0.01	1.20	67.6%	1.6%	22.7%	2.8%	0.2%	0.5%	67.6%
43			0	128	2	0.01	0.21	0.03	0.00	0.01	0.69		2.0%	30.1%	4.9%	0.6%	0.9%	100.0%	0.01	0.09	0.02	0.00	0.00	0.40	56.9%	1.7%	13.0%	3.3%	0.4%	0.6%	56.9%
44			2	130	2	0.01	0.25	0.04	0.01	0.01	0.62		2.1%	40.9%	6.3%	0.8%	1.1%	100.0%	0.01	0.12	0.03	0.00	0.00	0.34	55.4%	1.6%	19.2%	4.5%	0.6%	0.6%	55.4%
45			4	132	2	0.01	0.26	0.02	0.01	0.01	0.63		1.3%	41.2%	3.4%	1.1%	1.1%	100.0%	0.01	0.12	0.02	0.01	0.00	0.35	55.6%	1.0%	18.7%	2.4%	0.8%	0.6%	55.6%
46			6	134	2	0.01	0.29	0.02	0.01	0.01	0.59		1.9%	49.6%	3.6%	0.9%	1.5%	100.0%	0.01	0.14	0.02	0.00	0.01	0.34	57.8%	1.4%	24.0%	2.7%	0.7%	0.9%	57.8%
47			8	136	2	0.01	0.23	0.02	0.01	0.01	0.58		2.1%	40.2%	3.3%	0.9%	1.2%	100.0%	0.01	0.10	0.02	0.00	0.00	0.30	52.3%	1.6%	16.9%	2.6%	0.5%	0.7%	52.3%
48			10	138	4	0.04	0.30	0.06	0.02	0.01	0.78		5.3%	38.5%	7.1%	2.7%	1.4%	100.0%	0.03	0.16	0.04	0.02	0.01	0.47	60.4%	3.7%	21.0%	5.0%	2.1%	0.9%	60.4%
49			11	139	4	0.03	0.66	0.02	0.01	0.02	1.27		2.5%	51.9%	1.4%	0.5%	1.6%	100.0%	0.03	0.32	0.01	0.00	0.01	0.74	58.3%	2.1%	25.5%	0.9%	0.3%	0.9%	58.3%
50			12	140	4	0.02	0.64	0.04	0.00	0.02	1.38		1.2%	46.4%	2.7%	0.3%	1.6%	100.0%	0.01	0.31	0.02	0.00	0.01	0.91	65.9%	0.9%	22.6%	1.7%	0.2%	0.9%	65.9%
51			13	141	4	0.02	0.50	0.12	0.01	0.02	1.20		2.0%	41.3%	10.0%	0.8%	1.4%	100.0%	0.02	0.24	0.09	0.01	0.01	0.79	65.4%	1.5%	19.9%	7.5%	0.7%	0.9%	65.4%
52			18	146	4	0.03	0.60	0.03	0.02	0.02	1.21		2.2%	50.0%	2.8%	1.4%	1.4%	100.0%	0.02	0.30	0.03	0.01	0.01	0.78	64.9%	1.7%	24.6%	2.2%	1.1%	0.7%	64.9%
53			19	147	4	0.02	0.66	0.04	0.00	0.02	1.27		1.6%	52.2%	3.1%	0.2%	1.8%	100.0%	0.02	0.34	0.03	0.00	0.01	0.79	62.0%	1.3%	26.7%	2.0%	0.1%	1.0%	62.0%
54			20	148	4	0.03	0.43	0.07	0.01	0.01	0.97		2.9%	44.6%	6.7%	1.0%	1.4%	100.0%	0.02	0.20	0.05	0.01	0.01	0.54	55.2%	2.5%	20.4%	5.3%	0.8%	0.8%	55.2%
55			24	152	10	0.12	0.75	0.07	0.04	0.03	2.72		4.5%	27.5%	2.5%	1.4%	1.1%	100.0%	0.09	0.37	0.04	0.03	0.02	1.56	57.5%	3.4%	13.5%	1.5%	1.1%	0.7%	57.5%
56			25	153	10	0.06	2.02	0.04	0.01	0.06	3.65		1.6%	55.4%	1.2%	0.3%	1.6%	100.0%	0.04	1.13	0.03	0.01	0.04	2.70	73.8%	1.2%	30.9%	0.8%	0.2%	1.0%	73.8%
57			26	154	10	0.09	2.48	0.03	0.01	0.12	3.71		2.3%	66.8%	0.8%	0.3%	3.1%	100.0%	0.06	1.47	0.02	0.01	0.07	2.65	71.6%	1.5%	39.7%	0.6%	0.2%	1.8%	71.6%
58			27	155	10	0.08	2.18	0.06	0.01	0.09	3.76		2.1%	57.9%	1.5%	0.1%	2.4%	100.0%	0.06	1.18	0.04	0.00	0.05	2.69	71.7%	1.6%	31.5%	1.1%	0.1%	1.3%	71.7%
59			28	156	10	0.06	1.28	0.30	0.01	0.03	3.62		1.5%	35.5%	8.2%	0.4%	0.7%	100.0%	0.03	0.58	0.21	0.01	0.02	2.09	57.6%	0.9%	15.9%	5.7%	0.3%	0.4%	57.6%
60			34	162	10	0.06	1.38	0.06	0.01	0.04	3.32		1.8%	41.7%	1.7%	0.4%	1.3%	100.0%	0.04	0.71	0.04	0.01	0.03	2.25	67.9%	1.2%	21.5%	1.2%	0.4%	0.8%	67.9%
61			35	163	10	0.09	2.50	0.02	0.01	0.10	3.87		2.4%	64.6%	0.6%	0.1%	2.6%	100.0%	0.07	1.46	0.02	0.01	0.06	2.76	71.2%	1.7%	37.7%	0.4%	0.1%	1.5%	71.2%
62			36	164	10	0.08	2.36	0.03	0.01	0.11	3.69		2.2%	64.0%	0.8%	0.2%	2.9%	100.0%	0.06	1.39	0.02	0.01	0.06	2.64	71.5%	1.7%	37.8%	0.6%	0.2%	1.7%	71.5%
63			37	165	10	0.07	1.76	0.13	0.01	0.06	3.77		1.9%	46.7%	3.4%	0.3%	1.5%	100.0%	0.06	0.90	0.08	0.01	0.03	2.61	69.1%	1.5%	23.9%	2.0%	0.2%	0.8%	69.1%

Table 5. PD of Ant J – patch antenna (39GHz – n260)

[Folder Open Status]

- J–patch Low CH

												max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						9.4%	8.2%	19.0%	10.9%	4.6%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						63.4%	7.5%	7.0%	12.9%	8.2%	2.6%	63.4%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.00	0.01	0.00	0.00	0.18	2.2%	1.7%	5.5%	1.1%	1.7%	100.0%	0.00	0.00	0.01	0.00	0.00	0.08	44.8%	1.7%	1.1%	3.9%	0.6%	1.1%	44.8%
2			2		1	0.00	0.01	0.01	0.00	0.00	0.15	2.1%	3.4%	6.2%	2.1%	1.4%	100.0%	0.00	0.00	0.01	0.00	0.00	0.06	42.5%	2.1%	2.7%	4.1%	2.1%	0.7%	42.5%
3			4		1	0.00	0.00	0.01	0.00	0.00	0.17	2.3%	1.7%	2.9%	1.7%	0.6%	100.0%	0.00	0.00	0.00	0.00	0.00	0.08	46.5%	1.7%	1.7%	1.7%	1.7%	0.6%	46.5%
4			6		1	0.00	0.01	0.00	0.01	0.00	0.16	1.9%	3.9%	2.6%	3.9%	1.3%	100.0%	0.00	0.01	0.00	0.00	0.00	0.06	41.3%	1.3%	3.2%	1.9%	2.6%	0.6%	41.3%
5			8		1	0.01	0.00	0.01	0.01	0.01	0.15	4.0%	2.7%	5.4%	8.1%	3.4%	100.0%	0.01	0.00	0.01	0.01	0.00	0.06	40.3%	3.4%	2.0%	4.0%	6.0%	2.0%	40.3%
6			10		2	0.01	0.01	0.02	0.03	0.01	0.35	2.3%	3.5%	5.2%	9.0%	3.5%	100.0%	0.01	0.01	0.01	0.02	0.01	0.12	35.8%	2.0%	2.9%	3.5%	6.9%	2.3%	35.8%
7			11		2	0.01	0.01	0.01	0.00	0.00	0.25	2.4%	2.8%	2.8%	0.4%	0.4%	100.0%	0.01	0.01	0.01	0.00	0.00	0.12	48.0%	2.0%	2.4%	2.0%	0.4%	0.4%	48.0%
8			12		2	0.01	0.01	0.01	0.00	0.00	0.33	3.6%	3.6%	1.8%	1.2%	0.9%	100.0%	0.01	0.01	0.00	0.00	0.00	0.17	51.5%	2.4%	3.3%	1.2%	0.9%	0.3%	51.5%
9			13		2	0.01	0.01	0.02	0.01	0.01	0.29	4.1%	3.1%	6.8%	3.1%	2.1%	100.0%	0.01	0.01	0.02	0.01	0.00	0.11	38.7%	3.4%	2.7%	5.1%	2.7%	1.0%	38.7%
10			18		2	0.01	0.01	0.02	0.03	0.01	0.27	3.4%	3.0%	5.6%	10.9%	4.1%	100.0%	0.01	0.01	0.01	0.02	0.01	0.11	41.2%	2.6%	2.6%	4.1%	8.2%	2.6%	41.2%
11			19		2	0.01	0.01	0.03	0.00	0.01	0.34	1.5%	2.7%	7.7%	1.2%	2.1%	100.0%	0.00	0.01	0.02	0.00	0.00	0.16	47.9%	1.2%	2.4%	5.0%	1.2%	1.2%	47.9%
12			20		2	0.01	0.02	0.01	0.01	0.00	0.46	2.2%	3.7%	2.8%	2.2%	0.6%	100.0%	0.01	0.02	0.01	0.01	0.00	0.24	50.6%	1.3%	3.2%	1.9%	1.9%	0.4%	50.6%
13			24		5	0.03	0.04	0.04	0.05	0.02	0.57	5.4%	6.3%	6.3%	8.9%	3.3%	100.0%	0.03	0.03	0.03	0.04	0.01	0.23	40.1%	4.5%	5.2%	5.2%	7.0%	2.1%	40.1%
14			25		5	0.03	0.02	0.03	0.03	0.01	0.49	5.9%	3.3%	5.7%	5.7%	2.2%	100.0%	0.02	0.01	0.02	0.02	0.01	0.24	49.5%	4.9%	2.9%	4.1%	4.3%	1.4%	49.5%
15			26		5	0.03	0.03	0.01	0.01	0.00	0.71	3.5%	4.8%	1.8%	0.7%	0.4%	100.0%	0.02	0.03	0.01	0.00	0.00	0.39	53.9%	2.9%	3.9%	1.3%	0.6%	0.3%	53.9%
16			27		5	0.02	0.07	0.06	0.01	0.02	1.00	2.4%	6.7%	5.8%	1.3%	1.7%	100.0%	0.02	0.06	0.04	0.01	0.01	0.64	63.4%	2.1%	5.6%	4.0%	0.9%	0.9%	63.4%
17			28		5	0.02	0.05	0.06	0.05	0.01	1.19	1.9%	4.6%	5.1%	4.3%	1.0%	100.0%	0.02	0.05	0.05	0.04	0.01	0.57	48.3%	1.5%	4.0%	4.0%	3.7%	0.6%	48.3%
18			34		5	0.03	0.03	0.03	0.04	0.02	0.48	7.2%	6.3%	5.9%	9.3%	3.4%	100.0%	0.03	0.03	0.02	0.04	0.01	0.22	45.9%	5.9%	5.7%	5.1%	7.4%	2.1%	45.9%
19			35		5	0.03	0.03	0.02	0.01	0.00	0.64	4.0%	4.4%	2.3%	1.2%	0.6%	100.0%	0.02	0.02	0.01	0.01	0.00	0.35	54.3%	3.3%	3.7%	1.4%	0.9%	0.5%	54.3%
20			36		5	0.03	0.05	0.05	0.01	0.01	0.67	4.0%	7.9%	6.7%	1.2%	1.9%	100.0%	0.02	0.05	0.03	0.01	0.01	0.40	59.4%	3.4%	6.7%	4.3%	1.0%	1.0%	59.4%
21			37		5	0.03	0.07	0.06	0.04	0.02	1.19	2.1%	6.0%	5.4%	3.1%	1.3%	100.0%	0.02	0.06	0.04	0.03	0.01	0.71	59.8%	1.6%	5.2%	3.6%	2.6%	0.7%	59.8%
22			128		1	0.01	0.00	0.03	0.00	0.00	0.22	2.3%	1.4%	11.9%	0.5%	1.4%	100.0%	0.00	0.00	0.02	0.00	0.00	0.11	47.9%	1.8%	1.4%	9.1%	0.5%	0.9%	47.9%
23			130		1	0.01	0.00	0.01	0.00	0.00	0.16	6.3%	2.5%	7.0%	0.6%	2.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.07	44.3%	5.7%	2.5%	5.1%	0.6%	1.3%	44.3%
24			132		1	0.01	0.00	0.01	0.00	0.00	0.17	5.8%	2.3%	6.4%	1.7%	1.7%	100.0%	0.01	0.00	0.01	0.00	0.00	0.07	39.5%	4.1%	1.7%	4.7%	1.2%	1.2%	39.5%
25			134		1	0.01	0.00	0.01	0.00	0.00	0.18	4.5%	1.1%	4.5%	2.2%	1.1%	100.0%	0.01	0.00	0.01	0.00	0.00	0.07	39.3%	3.4%	1.1%	2.8%	1.7%	0.6%	39.3%
26			136		1	0.01	0.00	0.01	0.00	0.00	0.21	5.2%	1.4%	4.7%	1.9%	0.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.09	41.8%	4.2%	0.9%	3.3%	1.4%	0.5%	41.8%
27			138		2	0.01	0.02	0.02	0.01	0.00	0.38	2.4%	4.0%	5.1%	1.6%	1.1%	100.0%	0.01	0.01	0.01	0.00	0.00	0.19	50.3%	1.9%	3.5%	3.7%	1.1%	0.5%	50.3%
28			139		2	0.02	0.01	0.02	0.00	0.00	0.41	3.9%	1.9%	5.1%	0.5%	0.7%	100.0%	0.01	0.01	0.01	0.00	0.00	0.21	51.4%	3.4%	1.4%	2.9%	0.2%	0.5%	51.4%
29			140		2	0.02	0.01	0.04	0.00	0.01	0.30	8.1%	4.1%	13.2%	0.7%	3.1%	100.0%	0.02	0.01	0.03	0.00	0.01	0.11	37.6%	6.4%	3.4%	8.8%	0.7%	1.7%	37.6%
30			141		2	0.02	0.01	0.03	0.01	0.01	0.34	4.7%	1.5%	8.9%	2.4%	2.1%	100.0%	0.01	0.00	0.02	0.01	0.00	0.14	42.6%	3.8%	1.2%	6.2%	1.8%	1.2%	42.6%
31			146		2	0.02	0.01	0.01	0.01	0.00	0.38	4.2%	2.3%	3.1%	2.6%	1.0%	100.0%	0.01	0.01	0.01	0.01	0.00	0.20	51.3%	3.4%	2.1%	2.1%	1.8%	0.5%	51.3%
32			147		2	0.01	0.01	0.01	0.00	0.00	0.28	4.6%	1.8%	4.6%	1.1%	1.4%	100.0%	0.01	0.00	0.01	0.00	0.00	0.15	52.3%	3.6%	1.4%	3.2%	0.7%	0.7%	52.3%
33			148		2	0.02	0.01	0.05	0.01	0.01	0.28	7.1%	2.9%	16.4%	1.8%	4.3%	100.0%	0.02	0.01	0.03	0.00	0.01	0.13	44.6%	5.7%	2.5%	12.1%	1.4%	1.8%	44.6%
34			152		5	0.02	0.03	0.10	0.03	0.01	1.10	1.9%	2.5%	8.8%	2.8%	1.0%	100.0%	0.02	0.02	0.06	0.02	0.01	0.67	60.9%	1.5%	2.1%	5.3%	2.1%	0.6%	60.9%
35			153		5	0.07	0.02	0.04	0.01	0.01	0.82	8.0%	2.4%	4.4%	1.3%	0.7%	100.0%	0.06	0.02	0.03	0.01	0.00	0.45	55.1%	6.8%	2.1%	3.3%	1.1%	0.4%	55.1%
36			154		5	0.07	0.03	0.05	0.01	0.00	0.76	8.8%	3.7%	6.2%	0.7%	0.5%	100.0%	0.05	0.02	0.03	0.00	0.00	0.40	52.4%	7.0%	2.9%	4.1%	0.5%	0.3%	52.4%
37			155		5	0.04	0.03	0.09	0.01	0.02	0.67	5.3%	4.8%	12.6%	0.7%	3.6%	100.0%	0.03	0.03	0.06	0.00	0.01	0.36	52.7%	4.2%	4.2%	8.8%	0.6%	1.9%	52.7%
38			156		5	0.02	0.01	0.14	0.01	0.02	0.83	2.4%	1.4%	16.5%	1.4%	2.7%	100.0%	0.02	0.01	0.11	0.01	0.01	0.40	48.8%	2.1%	1.3%	12.9%	1.4%	1.6%	48.8%
39			162		5	0.04	0.04	0.04	0.04	0.01	0.97	4.3%	3.7%	4.3%	3.6%	1.3%	100.0%	0.04	0.03	0.03	0.03	0.01	0.57	58.2%	3.7%	3.2%	3.5%	2.8%	0.8%	58.2%
40			163		5	0.08	0.03	0.02	0.01	0.01	0.83	9.4%	3.1%	1.9%	1.3%	0.7%	100.0%	0.06	0.02	0.01	0.01	0.00	0.44	52.8%	7.5%	2.4%	1.6%	1.0%	0.4%	52.8%
41			164		5	0.04	0.03	0.04	0.00	0.01	0.59	7.1%	4.9%	7.1%	0.7%	2.0%	100.0%	0.04	0.02	0.03	0.00	0.01	0.30	49.7%	6.1%	4.0%	5.4%	0.7%	1.0%	49.7%
42			165		5	0.03	0.02	0.15	0.01	0.04	0.76	3.9%	2.1%	19.0%	1.6%	4.6%	100.0%	0.03	0.01	0.10	0.01	0.02	0.36	47.6%	3.4%	1.8%	12.5%	1.2%	2.6%	47.6%
43			0	128	2	0.01	0.01	0.04	0.01	0.01	0.48	1.9%	1.7%	9.1%	1.0%	2.3%	100.0%	0.01	0.01	0.03	0.01	0.01	0.22	44.6%	1.7%	1.4%	6.0%	1.0%	1.2%	44.6%
44			2	130	2	0.02	0.01	0.03	0.01	0.01	0.36	5.0%	3.1%	9.5%	1.4%	2.5%	100.0%	0.01	0.01	0.02	0.00	0.01	0.14	38.8%	3.9%	2.5%	6.4%	1.1%	1.4%	38.8%
45			4	132	2	0.02	0.01	0.03	0.01	0.01	0.38	4.2%	2.9%	7.4%	1.6%	2.1%	100.0%	0.01	0.01	0.02	0.00	0.00	0.16	41.4%	3.4%	2.4%	4.7%	1.1%	1.1%	41.4%
46			6	134	2	0.01	0.01	0.02	0.02	0.01	0.39	3.3%	2.8%	3.8%	4.8%	1.8%	100.0%	0.01	0.01	0.01	0.01	0.01	0.16	39.5%	2.8%	2.6%	2.6%	3.6%	1.3%	39.5%
47			8	136	2	0.02	0.01	0.03	0.03	0.01	0.37	5.4%	2.4%	8.6%	7.5%	2.7%	100.0%	0.02	0.01	0.02	0.02	0.01	0.16	43.9%	4.3%	2.2%	5.9%	5.9%	1.9%	43.9%
48			10	138	4	0.03	0.04	0.06	0.06	0.02	0.68	3.7%	6.5%	8.4%	8.9%	3.1%	100.0%	0.02	0.04	0.04	0.04	0.01	0.35	51.8%	3.0%	5.5%	5.8%	6.5%	1.9%	51.8%
49			11	139	4	0.03	0.02	0.04	0.00	0.01	0.81	3.1%	2.7%	4.7%	0.5%	1.0%	100.0%	0.02	0.02	0.02	0.00	0.00	0.39	48.6%	2.6%	2.3%	3.0%	0.4%	0.5%	48.6%
50			12	140	4	0.05	0.03	0.05	0.01	0.01	0.52	9.2%	6.2%	10.2%	1.9%	2.7%	100.0%	0.04	0.03	0.04	0.01	0.01	0.24	45.2%	7.5%	5.4%	7.7%	1.7%	1.5%	45.2%
51			13	141	4	0.02	0.02	0.07	0.02	0.02	0.61	3.9%	3.8%	11.7%	3.6%	3.3%	100.0%	0.02	0.02	0.05	0.02	0.01	0.29	48.1%	3.3%	3.3%	7.7%	3.3%	2.0%	48.1%
52			18	146	4	0.03	0.03	0.04	0.07	0.03	0.85	3.6%	3.3%	4.6%	8.3%	3.1%	100.0%	0.02	0.02	0.03	0.05	0.02	0.42	50.1%	2.7%	2.8%	3.1%	6.2%	1.9%	50.1%
53			19	147	4	0.02	0.03	0.07	0.01	0.02	0.68	2.9%	3.7%	10.3%	1.0%	3.1%	100.0%	0.02	0.02	0.05	0.01	0.01	0.38	55.1%	2.3%	3.1%	7.0%	0.9%	1.6%	55.1%
54			20	148	4	0.04	0.04	0.09	0.02	0.02	0.69	6.0%	5.7%	12.4%	3.2%	3.4%	100.0%	0.03	0.04	0.06	0.02	0.01	0.39	57.1%	4.7%	5.1%	8.7%	3.1%	1.7%	57.1%
55			24	152	10	0.07	0.10	0.19	0.15	0.06	1.89	3.7%	5.4%	9.9%	8.1%	3.0%	100.0%	0.06	0.09	0.13	0.12	0.04	1.15	60.7%	3.2%	4.5%	6.8%	6.1%	1.9%	60.7%
56			25	153	10	0.13	0.04	0.10	0.07	0.03	1.77	7.3%	2.5%	5.7%	3.8%	1.5%	100.0%	0.11	0.04	0.08	0.05	0.02	0.94	52.9%	6.4%	2.1%	4.2%	2.8%	0.9%	52.9%
57			26	154	10	0.10	0.09	0.08	0.02	0.01	1.76	5.8%	4.9%	4.3%	0.9%	0.4%	100.0%	0.09	0.07	0.05	0.01	0.01	0.94	53.2%	5.0%	4.1%	2.9%	0.6%	0.3%	53.2%
58			27	155	10	0.10	0.18	0.27	0.02	0.08	2.20	4.4%	8.1%	12.1%	1.0%	3.6%	100.0%	0.08	0.15	0.19	0.02	0.04	1.33	60.6%	3.8%	6.9%	8.6%	0.7%	1.9%	60.6%
59			28	156	10	0.07	0.11	0.28	0.10	0.06	2.47	2.8%	4.4%	11.5%	4.1%	2.5%	100.0%	0.05	0.10	0.20	0.09	0.03	1.25	50.6%	1.8%	3.9%	8.1%	3.6%	1.3%	50.6%
60			34	162	10	0.08	0.11	0.10	0.15	0.06	1.77	4.6%	6.3%	5.7%	8.7%	3.2%	100.0%	0.06	0.09	0.08	0.12	0.04	1.04	58.9%	3.6%	5.3%	4.6%	6.9%	2.0%	58.9%
61			35	163	10	0.11	0.07	0.05	0.03	0.02	1.89	5.7%	3.9%	2.7%	1.6%	0.8%	100.0%	0.09	0.06	0.03	0.02	0.01	1.02	54.1%	4.8%	3.2%	1.6%	1.2%	0.4%	54.1%
62			36	164	10	0.10	0.15	0.15	0.02	0.04	1.82	5.4%	8.2%	8.2%	0.9%	2.4%	100.0%	0.09	0.13	0.09	0.01	0.03	1.05	57.8%	4.7%	7.0%	5.2%	0.8%	1.4%	57.8%
63			37	165	10	0.10	0.15	0.35	0.08	0.09	2.44	3.9%	6.2%	14.5%	3.2%	3.7%	100.0%	0.06	0.13	0.25	0.07	0.05	1.45	59.3%	2.6%	5.3%	10.1%	2.9%	1.9%	59.3%

- J–patch Mid CH

												max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						7.8%	6.0%	12.1%	6.1%	3.6%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						68.0%	6.3%	5.2%	9.4%	4.5%	1.8%	68.0%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.00	0.01	0.00	0.00	0.23	1.3%	1.3%	3.1%	0.9%	0.9%	100.0%	0.00	0.00	0.01	0.00	0.00	0.11	48.0%	0.9%	0.9%	2.2%	0.4%	0.4%	48.0%
2			2		1	0.01	0.00	0.01	0.00	0.00	0.20	2.5%	2.0%	5.4%	2.0%	1.5%	100.0%	0.00	0.00	0.01	0.00	0.00	0.08	40.7%	1.5%	1.5%	3.4%	1.5%	1.0%	40.7%
3			4		1	0.00	0.00	0.01	0.00	0.00	0.20	2.0%	1.5%	2.9%	1.0%	0.5%	100.0%	0.00	0.00	0.00	0.00	0.00	0.08	40.2%	1.5%	1.5%	2.0%	1.0%	0.5%	40.2%
4			6		1	0.01	0.01	0.01	0.00	0.00	0.20	2.5%	2.5%	3.0%	2.0%	1.0%	100.0%	0.00	0.00	0.01	0.00	0.00	0.07	35.0%	2.0%	2.0%	2.5%	1.5%	0.5%	35.0%
5			8		1	0.00	0.01	0.01	0.01	0.00	0.21	1.9%	2.4%	2.4%	3.9%	1.4%	100.0%	0.00	0.00	0.00	0.01	0.00	0.08	38.2%	1.9%	1.9%	1.9%	2.9%	1.0%	38.2%
6			10		2	0.01	0.02	0.01	0.02	0.01	0.40	1.5%	4.5%	3.5%	5.0%	2.0%	100.0%	0.00	0.02	0.01	0.02	0.01	0.17	43.6%	1.0%	4.0%	2.5%	3.8%	1.3%	43.6%
7			11		2	0.01	0.01	0.01	0.00	0.00	0.40	1.8%	1.8%	2.0%	0.5%	0.5%	100.0%	0.01	0.01	0.01	0.00	0.00	0.21	52.3%	1.3%	1.5%	1.3%	0.3%	0.3%	52.3%
8			12		2	0.01	0.01	0.01	0.00	0.00	0.41	3.2%	2.9%	2.4%	1.0%	0.7%	100.0%	0.01	0.01	0.01	0.00	0.00	0.20	48.5%	2.4%	2.4%	1.7%	1.0%	0.5%	48.5%
9			13		2	0.01	0.01	0.02	0.01	0.00	0.39	2.3%	2.3%	4.1%	2.3%	1.0%	100.0%	0.01	0.01	0.01	0.01	0.00	0.14	36.8%	1.8%	2.1%	3.1%	2.3%	0.5%	36.8%
10			18		2	0.01	0.01	0.01	0.02	0.01	0.38	1.8%	2.1%	3.2%	6.1%	2.4%	100.0%	0.01	0.01	0.01	0.02	0.01	0.18	46.1%	1.3%	2.1%	2.1%	4.5%	1.6%	46.1%
11			19		2	0.01	0.01	0.03	0.00	0.01	0.44	1.8%	1.6%	5.7%	0.5%	1.8%	100.0%	0.01	0.01	0.02	0.00	0.00	0.24	54.3%	1.1%	1.4%	3.9%	0.5%	0.9%	54.3%
12			20		2	0.01	0.01	0.02	0.01	0.01	0.47	2.3%	3.0%	4.2%	2.3%	1.3%	100.0%	0.01	0.01	0.01	0.01	0.00	0.22	46.8%	1.5%	2.5%	2.7%	2.1%	0.6%	46.8%
13			24		5	0.03	0.03	0.05	0.03	0.01	0.87	3.1%	3.7%	5.5%	3.2%	1.1%	100.0%	0.02	0.03	0.03	0.03	0.01	0.38	43.8%	2.4%	3.1%	3.7%	2.9%	0.7%	43.8%
14			25		5	0.03	0.03	0.03	0.03	0.01	0.73	3.7%	3.5%	3.5%	3.5%	1.5%	100.0%	0.02	0.02	0.02	0.02	0.01	0.39	52.6%	2.7%	2.9%	2.7%	2.6%	0.8%	52.6%
15			26		5	0.03	0.04	0.02	0.01	0.00	0.95	3.4%	3.7%	2.3%	0.7%	0.3%	100.0%	0.02	0.03	0.02	0.01	0.00	0.58	61.4%	2.4%	3.0%	1.8%	0.5%	0.2%	61.4%
16			27		5	0.04	0.05	0.07	0.01	0.02	1.11	3.7%	4.5%	6.3%	0.5%	1.8%	100.0%	0.03	0.04	0.05	0.01	0.01	0.63	56.6%	2.7%	3.9%	4.3%	0.4%	1.0%	56.6%
17			28		5	0.03	0.07	0.07	0.06	0.01	1.27	2.0%	5.3%	5.3%	4.4%	0.9%	100.0%	0.02	0.06	0.05	0.05	0.01	0.67	52.3%	1.4%	4.6%	4.2%	3.8%	0.5%	52.3%
18			34		5	0.03	0.03	0.03	0.03	0.01	0.88	3.5%	3.9%	3.3%	3.6%	1.5%	100.0%	0.02	0.03	0.02	0.02	0.01	0.40	45.9%	2.6%	3.1%	2.4%	2.7%	0.9%	45.9%
19			35		5	0.03	0.03	0.01	0.01	0.00	0.90	3.2%	3.7%	1.3%	1.1%	0.4%	100.0%	0.02	0.03	0.01	0.01	0.00	0.54	59.7%	2.3%	2.9%	0.9%	0.9%	0.3%	59.7%
20			36		5	0.05	0.05	0.04	0.01	0.01	0.98	4.7%	5.1%	3.6%	0.7%	1.0%	100.0%	0.03	0.04	0.02	0.01	0.01	0.55	56.1%	3.3%	4.3%	2.5%	0.6%	0.6%	56.1%
21			37		5	0.03	0.07	0.08	0.04	0.02	1.10	2.5%	6.0%	7.2%	3.6%	2.0%	100.0%	0.02	0.06	0.06	0.03	0.01	0.65	59.3%	1.7%	5.2%	5.0%	3.1%	1.0%	59.3%
22			128		1	0.01	0.00	0.02	0.00	0.00	0.24	2.1%	1.3%	9.7%	0.4%	1.7%	100.0%	0.00	0.00	0.02	0.00	0.00	0.11	46.8%	1.3%	1.3%	7.2%	0.4%	0.8%	46.8%
23			130		1	0.01	0.00	0.01	0.00	0.00	0.17	3.5%	1.2%	5.2%	0.6%	1.7%	100.0%	0.01	0.00	0.01	0.00	0.00	0.08	48.8%	2.9%	0.6%	3.5%	0.6%	0.6%	48.8%
24			132		1	0.01	0.00	0.01	0.00	0.00	0.19	4.3%	1.1%	5.3%	1.1%	1.6%	100.0%	0.01	0.00	0.01	0.00	0.00	0.08	44.4%	2.7%	1.1%	3.7%	1.1%	1.1%	44.4%
25			134		1	0.01	0.00	0.01	0.00	0.00	0.21	2.9%	1.0%	2.4%	1.4%	0.5%	100.0%	0.01	0.00	0.00	0.00	0.00	0.10	48.6%	2.4%	1.0%	1.4%	1.0%	0.5%	48.6%
26			136		1	0.01	0.00	0.01	0.00	0.00	0.24	4.6%	0.8%	3.8%	1.7%	0.4%	100.0%	0.01	0.00	0.01	0.00	0.00	0.11	46.4%	3.3%	0.4%	3.3%	1.3%	0.4%	46.4%
27			138		2	0.01	0.01	0.02	0.00	0.01	0.37	2.7%	1.9%	4.1%	1.1%	1.4%	100.0%	0.01	0.01	0.01	0.00	0.00	0.20	55.4%	1.9%	1.4%	3.0%	0.8%	0.5%	55.4%
28			139		2	0.01	0.01	0.03	0.00	0.00	0.40	3.0%	1.8%	7.3%	0.3%	0.8%	100.0%	0.01	0.01	0.02	0.00	0.00	0.22	55.3%	2.5%	1.5%	5.3%	0.3%	0.3%	55.3%
29			140		2	0.02	0.01	0.04	0.00	0.01	0.34	5.0%	1.5%	10.6%	0.6%	2.4%	100.0%	0.01	0.00	0.03	0.00	0.00	0.18	53.7%	4.1%	1.2%	8.3%	0.6%	1.2%	53.7%
30			141		2	0.02	0.00	0.02	0.00	0.01	0.41	3.9%	0.7%	5.9%	1.0%	1.5%	100.0%	0.01	0.00	0.02	0.00	0.00	0.18	44.8%	3.0%	0.5%	4.2%	0.7%	1.0%	44.8%
31			146		2	0.01	0.01	0.01	0.01	0.00	0.38	3.7%	1.8%	3.2%	1.8%	0.5%	100.0%	0.01	0.01	0.01	0.01	0.00	0.22	58.7%	2.9%	1.6%	1.6%	1.3%	0.5%	58.7%
32			147		2	0.01	0.01	0.01	0.00	0.00	0.36	3.0%	1.4%	3.0%	0.6%	0.8%	100.0%	0.01	0.00	0.01	0.00	0.00	0.22	60.9%	2.5%	1.1%	2.2%	0.6%	0.6%	60.9%
33			148		2	0.01	0.00	0.03	0.00	0.01	0.36	3.0%	1.1%	9.4%	0.6%	2.8%	100.0%	0.01	0.00	0.03	0.00	0.01	0.15	40.3%	2.5%	0.8%	7.2%	0.6%	1.7%	40.3%
34			152		5	0.04	0.01	0.06	0.01	0.01	0.98	4.0%	1.3%	5.7%	1.3%	1.3%	100.0%	0.02	0.01	0.03	0.01	0.01	0.60	60.5%	2.3%	0.9%	3.5%	1.1%	0.7%	60.5%
35			153		5	0.08	0.03	0.03	0.01	0.01	1.04	7.8%	2.8%	2.6%	1.4%	0.6%	100.0%	0.07	0.02	0.02	0.01	0.00	0.60	58.4%	6.3%	2.2%	1.4%	1.0%	0.3%	58.4%
36			154		5	0.03	0.01	0.05	0.01	0.00	0.69	4.5%	1.9%	7.1%	0.9%	0.3%	100.0%	0.03	0.01	0.04	0.01	0.00	0.47	68.0%	3.6%	1.6%	5.9%	0.7%	0.3%	68.0%
37			155		5	0.05	0.02	0.08	0.00	0.02	0.89	5.4%	1.8%	9.2%	0.4%	2.6%	100.0%	0.04	0.01	0.05	0.00	0.01	0.53	59.1%	4.0%	1.6%	6.1%	0.3%	1.5%	59.1%
38			156		5	0.03	0.01	0.11	0.01	0.01	0.91	3.2%	0.9%	12.1%	1.3%	1.5%	100.0%	0.02	0.01	0.09	0.01	0.01	0.41	45.2%	2.1%	0.8%	9.4%	1.1%	0.9%	45.2%
39			162		5	0.05	0.02	0.04	0.03	0.01	1.02	4.8%	1.7%	3.4%	2.7%	1.0%	100.0%	0.04	0.01	0.02	0.02	0.01	0.58	57.0%	4.0%	1.4%	2.1%	2.1%	0.6%	57.0%
40			163		5	0.05	0.02	0.05	0.01	0.01	0.87	6.0%	1.9%	5.2%	1.5%	0.6%	100.0%	0.04	0.01	0.04	0.01	0.00	0.57	65.6%	4.4%	1.5%	4.0%	1.3%	0.3%	65.6%
41			164		5	0.05	0.02	0.05	0.01	0.01	0.79	6.8%	2.5%	6.6%	0.6%	1.6%	100.0%	0.04	0.02	0.04	0.00	0.01	0.45	56.3%	5.3%	2.0%	5.1%	0.5%	0.9%	56.3%
42			165		5	0.04	0.01	0.10	0.01	0.02	1.04	4.0%	0.8%	9.6%	1.1%	1.8%	100.0%	0.03	0.01	0.06	0.01	0.01	0.54	52.2%	2.8%	0.7%	5.5%	0.9%	0.9%	52.2%
43			0	128	2	0.01	0.01	0.04	0.00	0.01	0.55	1.6%	1.5%	6.9%	0.7%	1.8%	100.0%	0.01	0.01	0.03	0.00	0.01	0.26	47.1%	1.3%	1.1%	4.7%	0.5%	0.9%	47.1%
44			2	130	2	0.02	0.01	0.03	0.01	0.01	0.45	3.6%	1.3%	7.4%	1.3%	2.2%	100.0%	0.01	0.01	0.02	0.01	0.01	0.20	44.0%	2.7%	1.1%	4.9%	1.1%	1.1%	44.0%
45			4	132	2	0.02	0.01	0.03	0.00	0.01	0.43	4.5%	1.9%	6.4%	0.9%	1.6%	100.0%	0.01	0.01	0.02	0.00	0.00	0.19	44.7%	3.3%	1.6%	4.2%	0.7%	0.9%	44.7%
46			6	134	2	0.01	0.01	0.01	0.01	0.01	0.46	3.0%	1.7%	3.0%	3.0%	1.1%	100.0%	0.01	0.01	0.01	0.01	0.00	0.20	43.5%	2.4%	1.5%	2.0%	2.2%	0.7%	43.5%
47			8	136	2	0.02	0.01	0.02	0.02	0.01	0.44	4.3%	1.8%	5.5%	5.3%	2.1%	100.0%	0.02	0.01	0.02	0.02	0.01	0.20	46.3%	3.4%	1.4%	4.6%	3.9%	1.1%	46.3%
48			10	138	4	0.02	0.03	0.04	0.03	0.01	0.64	2.7%	4.2%	6.4%	5.2%	2.0%	100.0%	0.01	0.02	0.03	0.03	0.01	0.34	53.7%	1.9%	3.8%	4.7%	3.9%	1.3%	53.7%
49			11	139	4	0.03	0.02	0.04	0.00	0.01	0.98	2.7%	1.7%	4.0%	0.4%	0.8%	100.0%	0.02	0.01	0.03	0.00	0.00	0.52	52.4%	1.8%	1.3%	2.9%	0.4%	0.4%	52.4%
50			12	140	4	0.04	0.02	0.05	0.01	0.01	0.65	5.7%	3.7%	8.3%	1.5%	2.1%	100.0%	0.03	0.02	0.04	0.01	0.01	0.34	52.1%	4.9%	3.2%	6.6%	1.4%	1.1%	52.1%
51			13	141	4	0.03	0.02	0.06	0.02	0.01	0.77	4.3%	2.3%	7.2%	2.2%	1.8%	100.0%	0.02	0.02	0.04	0.02	0.01	0.30	38.9%	2.7%	2.1%	4.9%	2.1%	1.0%	38.9%
52			18	146	4	0.03	0.01	0.03	0.05	0.02	0.92	2.8%	1.5%	3.6%	5.8%	2.2%	100.0%	0.02	0.01	0.02	0.04	0.01	0.52	56.6%	2.1%	1.2%	2.5%	4.3%	1.3%	56.6%
53			19	147	4	0.03	0.02	0.06	0.01	0.02	0.86	3.3%	2.1%	6.5%	0.6%	2.0%	100.0%	0.02	0.01	0.04	0.00	0.01	0.52	60.3%	2.2%	1.6%	4.4%	0.5%	1.1%	60.3%
54			20	148	4	0.03	0.03	0.09	0.02	0.03	0.77	3.9%	3.4%	11.2%	2.7%	3.6%	100.0%	0.03	0.02	0.06	0.02	0.01	0.38	48.8%	3.2%	3.0%	7.5%	2.3%	1.8%	48.8%
55			24	152	10	0.10	0.05	0.14	0.07	0.03	2.23	4.5%	2.1%	6.4%	3.3%	1.3%	100.0%	0.07	0.04	0.10	0.06	0.02	1.16	52.1%	3.1%	1.8%	4.4%	2.6%	0.7%	52.1%
56			25	153	10	0.13	0.09	0.06	0.08	0.03	2.42	5.4%	3.6%	2.3%	3.1%	1.2%	100.0%	0.11	0.07	0.04	0.06	0.02	1.35	55.6%	4.3%	2.9%	1.7%	2.3%	0.7%	55.6%
57			26	154	10	0.08	0.06	0.10	0.02	0.01	1.94	4.2%	3.1%	5.2%	1.0%	0.4%	100.0%	0.07	0.05	0.07	0.02	0.01	1.21	62.2%	3.6%	2.6%	3.6%	0.8%	0.3%	62.2%
58			27	155	10	0.15	0.11	0.28	0.01	0.08	2.38	6.4%	4.4%	11.6%	0.6%	3.5%	100.0%	0.12	0.09	0.19	0.01	0.04	1.36	57.0%	4.8%	3.9%	8.0%	0.5%	1.8%	57.0%
59			28	156	10	0.06	0.10	0.22	0.09	0.04	2.45	2.4%	4.2%	8.8%	3.7%	1.5%	100.0%	0.05	0.09	0.17	0.08	0.02	1.34	54.8%	1.8%	3.7%	7.1%	3.3%	0.8%	54.8%
60			34	162	10	0.12	0.07	0.10	0.12	0.05	2.35	5.1%	2.8%	4.3%	4.9%	1.9%	100.0%	0.09	0.06	0.06	0.09	0.03	1.25	53.1%	3.9%	2.4%	2.6%	3.8%	1.1%	53.1%
61			35	163	10	0.09	0.07	0.07	0.04	0.02	2.23	4.1%	3.0%	3.1%	2.0%	0.8%	100.0%	0.07	0.05	0.06	0.04	0.01	1.39	62.1%	3.1%	2.2%	2.8%	1.6%	0.5%	62.1%
62			36	164	10	0.16	0.11	0.15	0.02	0.04	2.30	7.1%	4.9%	6.3%	0.7%	1.9%	100.0%	0.12	0.10	0.09	0.01	0.02	1.31	57.3%	5.1%	4.2%	4.0%	0.6%	1.0%	57.3%
63			37	165	10	0.11	0.10	0.30	0.06	0.08	2.56	4.4%	3.8%	11.6%	2.4%	3.1%	100.0%	0.08	0.08	0.20	0.06	0.04	1.40	54.5%	3.0%	3.3%	7.9%	2.1%	1.5%	54.5%

- J–patch High CH

												max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						6.0%	5.2%	12.0%	3.5%	3.2%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.3%	4.7%	4.7%	9.1%	3.0%	1.8%	70.3%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.00	0.01	0.00	0.00	0.23	1.7%	1.3%	3.0%	0.4%	0.9%	100.0%	0.00	0.00	0.01	0.00	0.00	0.12	51.3%	1.3%	0.9%	2.2%	0.4%	0.4%	51.3%
2			2		1	0.00	0.00	0.01	0.00	0.00	0.23	1.7%	1.7%	2.6%	0.9%	0.4%	100.0%	0.00	0.00	0.00	0.00	0.00	0.10	43.5%	1.3%	1.7%	1.7%	0.9%	0.4%	43.5%
3			4		1	0.01	0.00	0.01	0.00	0.00	0.24	2.5%	1.3%	2.1%	0.8%	0.4%	100.0%	0.01	0.00	0.00	0.00	0.00	0.10	42.0%	2.1%	1.3%	1.3%	0.8%	0.4%	42.0%
4			6		1	0.00	0.00	0.00	0.00	0.00	0.25	1.6%	1.6%	1.6%	0.8%	0.4%	100.0%	0.00	0.00	0.00	0.00	0.00	0.11	42.0%	1.2%	1.2%	1.2%	0.4%	0.4%	42.0%
5			8		1	0.01	0.00	0.00	0.00	0.00	0.24	2.1%	1.3%	1.7%	1.3%	0.8%	100.0%	0.00	0.00	0.00	0.00	0.00	0.11	44.7%	1.7%	1.3%	1.3%	0.8%	0.4%	44.7%
6			10		2	0.01	0.01	0.01	0.01	0.00	0.47	1.5%	1.9%	2.5%	1.5%	0.6%	100.0%	0.01	0.01	0.01	0.01	0.00	0.16	34.5%	1.3%	1.7%	2.1%	1.3%	0.4%	34.5%
7			11		2	0.01	0.01	0.01	0.00	0.00	0.45	2.5%	2.5%	1.1%	0.4%	0.2%	100.0%	0.01	0.01	0.00	0.00	0.00	0.25	54.7%	1.8%	2.0%	0.7%	0.4%	0.2%	54.7%
8			12		2	0.01	0.01	0.01	0.00	0.00	0.48	2.7%	2.1%	1.7%	0.6%	0.6%	100.0%	0.01	0.01	0.01	0.00	0.00	0.26	54.5%	1.9%	1.7%	1.0%	0.6%	0.2%	54.5%
9			13		2	0.01	0.01	0.02	0.01	0.00	0.43	2.6%	1.9%	4.0%	1.4%	0.7%	100.0%	0.01	0.01	0.01	0.01	0.00	0.16	36.9%	1.9%	1.6%	2.8%	1.4%	0.5%	36.9%
10			18		2	0.01	0.01	0.01	0.01	0.00	0.47	1.9%	1.7%	1.5%	1.7%	0.6%	100.0%	0.01	0.01	0.01	0.01	0.00	0.25	53.0%	1.5%	1.5%	1.1%	1.1%	0.4%	53.0%
11			19		2	0.01	0.01	0.01	0.00	0.00	0.45	2.0%	1.8%	3.1%	0.7%	0.9%	100.0%	0.01	0.01	0.01	0.00	0.00	0.27	58.5%	1.3%	1.3%	2.0%	0.7%	0.7%	58.5%
12			20		2	0.01	0.01	0.02	0.01	0.00	0.50	2.6%	2.0%	3.0%	1.0%	0.8%	100.0%	0.01	0.01	0.01	0.01	0.00	0.25	49.3%	2.2%	1.8%	2.0%	1.0%	0.6%	49.3%
13			24		5	0.05	0.03	0.04	0.02	0.00	1.01	4.5%	2.7%	4.1%	2.2%	0.3%	100.0%	0.03	0.02	0.03	0.02	0.00	0.54	53.4%	3.2%	2.1%	2.7%	2.1%	0.2%	53.4%
14			25		5	0.04	0.04	0.01	0.01	0.00	0.96	3.8%	4.1%	1.3%	0.9%	0.4%	100.0%	0.03	0.03	0.01	0.01	0.00	0.54	56.1%	2.7%	3.4%	0.9%	0.7%	0.3%	56.1%
15			26		5	0.04	0.04	0.02	0.01	0.00	1.06	4.2%	3.5%	1.6%	0.5%	0.3%	100.0%	0.03	0.03	0.02	0.00	0.00	0.67	63.4%	3.2%	2.8%	1.4%	0.4%	0.2%	63.4%
16			27		5	0.06	0.05	0.06	0.00	0.02	1.17	5.2%	4.4%	4.9%	0.3%	1.5%	100.0%	0.05	0.04	0.04	0.00	0.01	0.62	53.1%	4.0%	3.8%	3.2%	0.3%	0.9%	53.1%
17			28		5	0.02	0.05	0.07	0.04	0.01	1.08	2.1%	4.5%	6.1%	3.3%	0.6%	100.0%	0.02	0.04	0.05	0.03	0.01	0.58	53.8%	1.8%	3.7%	4.8%	3.0%	0.5%	53.8%
18			34		5	0.05	0.03	0.03	0.01	0.00	1.13	4.4%	2.8%	2.6%	0.7%	0.3%	100.0%	0.03	0.03	0.02	0.01	0.00	0.62	55.2%	2.9%	2.2%	1.6%	0.6%	0.2%	55.2%
19			35		5	0.03	0.04	0.02	0.01	0.00	1.02	3.2%	3.7%	1.7%	0.5%	0.3%	100.0%	0.02	0.03	0.01	0.00	0.00	0.64	62.3%	2.1%	2.9%	1.3%	0.3%	0.2%	62.3%
20			36		5	0.06	0.05	0.03	0.01	0.01	1.17	4.8%	3.9%	2.6%	0.5%	0.8%	100.0%	0.04	0.04	0.02	0.01	0.01	0.68	57.8%	3.6%	3.3%	1.6%	0.5%	0.4%	57.8%
21			37		5	0.04	0.06	0.06	0.03	0.01	1.11	3.2%	5.2%	5.1%	2.3%	1.3%	100.0%	0.03	0.05	0.04	0.02	0.01	0.57	51.9%	2.5%	4.7%	3.8%	2.0%	0.7%	51.9%
22			128		1	0.00	0.00	0.03	0.00	0.00	0.21	1.4%	1.0%	12.0%	0.5%	1.0%	100.0%	0.00	0.00	0.02	0.00	0.00	0.09	44.5%	1.0%	1.0%	9.1%	0.5%	0.5%	44.5%
23			130		1	0.01	0.00	0.01	0.00	0.00	0.18	3.3%	1.1%	6.1%	0.6%	1.7%	100.0%	0.01	0.00	0.01	0.00	0.00	0.09	47.0%	2.8%	1.1%	3.9%	0.6%	1.1%	47.0%
24			132		1	0.01	0.00	0.01	0.00	0.00	0.21	2.8%	0.9%	3.8%	0.5%	0.9%	100.0%	0.00	0.00	0.01	0.00	0.00	0.10	44.6%	1.9%	0.5%	2.8%	0.5%	0.5%	44.6%
25			134		1	0.00	0.00	0.01	0.00	0.00	0.20	2.0%	0.5%	3.4%	0.5%	0.5%	100.0%	0.00	0.00	0.01	0.00	0.00	0.10	48.0%	1.5%	0.5%	2.5%	0.5%	0.5%	48.0%
26			136		1	0.01	0.00	0.01	0.01	0.00	0.19	2.6%	1.1%	2.6%	2.6%	1.1%	100.0%	0.00	0.00	0.00	0.00	0.00	0.10	51.3%	2.1%	0.5%	2.1%	2.1%	0.5%	51.3%
27			138		2	0.01	0.01	0.02	0.00	0.00	0.42	1.9%	1.2%	3.8%	0.5%	0.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.23	55.2%	1.4%	0.7%	3.1%	0.5%	0.2%	55.2%
28			139		2	0.01	0.00	0.03	0.00	0.00	0.36	2.8%	1.1%	9.3%	0.6%	0.6%	100.0%	0.01	0.00	0.03	0.00	0.00	0.21	59.7%	2.0%	0.8%	7.0%	0.6%	0.3%	59.7%
29			140		2	0.01	0.01	0.04	0.00	0.01	0.33	3.1%	1.5%	11.7%	0.3%	2.5%	100.0%	0.01	0.00	0.02	0.00	0.00	0.19	59.4%	2.5%	1.2%	7.1%	0.3%	1.2%	59.4%
30			141		2	0.01	0.00	0.02	0.00	0.01	0.42	2.6%	0.7%	5.4%	0.7%	1.2%	100.0%	0.01	0.00	0.02	0.00	0.00	0.18	42.0%	1.7%	0.5%	4.0%	0.5%	0.7%	42.0%
31			146		2	0.01	0.01	0.02	0.00	0.00	0.42	2.1%	1.2%	3.6%	1.0%	0.5%	100.0%	0.01	0.00	0.01	0.00	0.00	0.26	61.2%	1.7%	1.0%	2.6%	0.7%	0.2%	61.2%
32			147		2	0.01	0.00	0.01	0.00	0.00	0.34	3.2%	0.9%	3.2%	0.3%	0.6%	100.0%	0.01	0.00	0.01	0.00	0.00	0.23	65.9%	2.6%	0.6%	2.0%	0.3%	0.3%	65.9%
33			148		2	0.01	0.00	0.04	0.00	0.01	0.37	2.4%	1.1%	9.9%	0.5%	2.1%	100.0%	0.01	0.00	0.02	0.00	0.01	0.17	44.5%	1.9%	1.1%	5.9%	0.5%	1.3%	44.5%
34			152		5	0.04	0.01	0.08	0.01	0.01	1.12	3.4%	1.2%	7.0%	0.9%	0.4%	100.0%	0.03	0.01	0.06	0.01	0.00	0.66	58.5%	2.4%	1.0%	5.3%	0.8%	0.2%	58.5%
35			153		5	0.05	0.02	0.05	0.01	0.01	0.91	5.5%	1.9%	5.1%	1.4%	0.7%	100.0%	0.04	0.01	0.04	0.01	0.00	0.60	65.6%	4.1%	1.4%	3.8%	1.0%	0.3%	65.6%
36			154		5	0.02	0.01	0.04	0.01	0.00	0.61	3.4%	2.0%	6.5%	1.1%	0.7%	100.0%	0.02	0.01	0.03	0.01	0.00	0.43	69.5%	2.4%	1.6%	4.9%	1.0%	0.3%	69.5%
37			155		5	0.03	0.02	0.10	0.01	0.03	0.88	3.7%	1.8%	10.8%	0.7%	3.0%	100.0%	0.03	0.01	0.06	0.01	0.01	0.56	63.0%	3.1%	1.5%	7.0%	0.6%	1.6%	63.0%
38			156		5	0.04	0.01	0.09	0.01	0.01	0.93	4.1%	1.0%	9.8%	1.3%	1.2%	100.0%	0.03	0.01	0.07	0.01	0.01	0.49	52.3%	2.8%	0.8%	8.0%	1.0%	0.6%	52.3%
39			162		5	0.03	0.01	0.04	0.02	0.01	1.01	3.0%	1.4%	3.8%	1.7%	0.8%	100.0%	0.02	0.01	0.03	0.01	0.00	0.62	61.7%	2.3%	1.1%	2.8%	1.2%	0.4%	61.7%
40			163		5	0.03	0.01	0.05	0.01	0.00	0.66	4.4%	1.7%	7.0%	1.2%	0.5%	100.0%	0.02	0.01	0.03	0.01	0.00	0.46	70.3%	3.2%	1.2%	5.2%	0.8%	0.3%	70.3%
41			164		5	0.03	0.02	0.05	0.01	0.01	0.79	4.3%	2.1%	5.8%	0.6%	1.5%	100.0%	0.03	0.01	0.03	0.00	0.01	0.53	66.6%	3.3%	1.8%	3.5%	0.5%	0.9%	66.6%
42			165		5	0.04	0.01	0.08	0.01	0.02	1.04	4.1%	1.0%	7.7%	1.0%	1.6%	100.0%	0.03	0.01	0.06	0.01	0.01	0.62	59.7%	2.6%	0.8%	5.6%	0.7%	0.9%	59.7%
43			0	128	2	0.01	0.01	0.03	0.00	0.01	0.52	1.7%	1.0%	6.6%	0.8%	1.2%	100.0%	0.01	0.00	0.03	0.00	0.00	0.25	48.6%	1.3%	0.8%	5.0%	0.8%	0.6%	48.6%
44			2	130	2	0.01	0.01	0.03	0.01	0.01	0.45	2.9%	2.4%	6.7%	1.1%	2.0%	100.0%	0.01	0.01	0.02	0.01	0.01	0.20	44.5%	2.2%	2.0%	4.2%	1.1%	1.1%	44.5%
45			4	132	2	0.02	0.01	0.02	0.01	0.01	0.49	3.7%	1.0%	4.1%	1.0%	1.0%	100.0%	0.02	0.00	0.01	0.00	0.00	0.21	43.2%	3.3%	0.8%	2.6%	0.8%	0.6%	43.2%
46			6	134	2	0.01	0.01	0.01	0.01	0.00	0.47	2.4%	1.5%	3.0%	1.1%	0.9%	100.0%	0.01	0.01	0.01	0.00	0.00	0.24	50.7%	1.7%	1.1%	2.4%	0.6%	0.4%	50.7%
47			8	136	2	0.01	0.01	0.01	0.02	0.01	0.46	2.8%	1.3%	3.0%	3.5%	1.5%	100.0%	0.01	0.01	0.01	0.01	0.00	0.22	48.0%	2.2%	1.1%	2.4%	2.4%	0.9%	48.0%
48			10	138	4	0.02	0.01	0.04	0.01	0.01	0.77	3.0%	1.7%	5.7%	1.7%	0.6%	100.0%	0.02	0.01	0.03	0.01	0.00	0.39	50.9%	2.2%	1.4%	4.4%	1.6%	0.4%	50.9%
49			11	139	4	0.02	0.02	0.05	0.01	0.01	0.93	2.3%	2.1%	5.2%	0.9%	0.8%	100.0%	0.02	0.02	0.04	0.01	0.00	0.54	58.1%	1.8%	1.8%	4.0%	0.9%	0.4%	58.1%
50			12	140	4	0.02	0.02	0.06	0.01	0.02	0.76	3.1%	2.8%	8.4%	0.8%	2.1%	100.0%	0.02	0.02	0.04	0.01	0.01	0.42	55.6%	2.5%	2.4%	5.1%	0.8%	1.0%	55.6%
51			13	141	4	0.03	0.01	0.06	0.01	0.01	0.90	3.0%	1.6%	6.1%	1.0%	1.4%	100.0%	0.02	0.01	0.04	0.01	0.01	0.36	39.8%	2.3%	1.3%	4.4%	0.9%	0.7%	39.8%
52			18	146	4	0.02	0.02	0.04	0.02	0.01	0.97	2.4%	2.0%	4.0%	2.2%	0.9%	100.0%	0.02	0.01	0.03	0.01	0.01	0.60	61.4%	2.0%	1.4%	3.1%	1.4%	0.5%	61.4%
53			19	147	4	0.03	0.01	0.03	0.01	0.01	0.86	3.3%	1.4%	3.1%	0.7%	0.9%	100.0%	0.02	0.01	0.02	0.01	0.01	0.54	62.8%	2.4%	1.3%	1.9%	0.7%	0.6%	62.8%
54			20	148	4	0.03	0.02	0.08	0.01	0.02	0.84	3.3%	2.0%	9.3%	1.2%	2.7%	100.0%	0.02	0.01	0.05	0.01	0.01	0.40	47.1%	2.7%	1.7%	6.1%	1.1%	1.4%	47.1%
55			24	152	10	0.13	0.06	0.18	0.06	0.01	2.66	4.7%	2.4%	6.9%	2.2%	0.4%	100.0%	0.08	0.05	0.13	0.05	0.01	1.37	51.5%	3.2%	1.9%	4.8%	2.0%	0.2%	51.5%
56			25	153	10	0.09	0.09	0.06	0.04	0.02	2.59	3.6%	3.4%	2.5%	1.6%	0.8%	100.0%	0.08	0.07	0.05	0.03	0.01	1.57	60.5%	2.9%	2.5%	1.9%	1.2%	0.4%	60.5%
57			26	154	10	0.10	0.05	0.07	0.02	0.01	1.86	5.1%	2.8%	4.0%	1.2%	0.6%	100.0%	0.08	0.04	0.06	0.02	0.01	1.27	68.2%	4.0%	2.4%	3.0%	1.0%	0.4%	68.2%
58			27	155	10	0.16	0.08	0.28	0.01	0.08	2.64	6.0%	3.1%	10.6%	0.5%	3.2%	100.0%	0.12	0.07	0.19	0.01	0.05	1.54	58.1%	4.7%	2.6%	7.1%	0.4%	1.8%	58.1%
59			28	156	10	0.09	0.07	0.24	0.06	0.03	2.73	3.3%	2.6%	8.8%	2.0%	0.9%	100.0%	0.06	0.06	0.19	0.05	0.01	1.47	53.7%	2.2%	2.2%	7.1%	1.9%	0.4%	53.7%
60			34	162	10	0.12	0.07	0.10	0.04	0.02	2.62	4.5%	2.8%	3.8%	1.6%	0.8%	100.0%	0.08	0.06	0.06	0.03	0.01	1.45	55.5%	2.9%	2.2%	2.4%	1.1%	0.4%	55.5%
61			35	163	10	0.08	0.08	0.07	0.03	0.01	2.14	3.9%	3.6%	3.4%	1.2%	0.4%	100.0%	0.06	0.06	0.06	0.02	0.01	1.36	63.6%	2.8%	2.8%	2.6%	0.7%	0.2%	63.6%
62			36	164	10	0.14	0.09	0.13	0.02	0.04	2.46	5.7%	3.5%	5.3%	0.7%	1.6%	100.0%	0.11	0.07	0.08	0.02	0.02	1.47	59.8%	4.3%	3.0%	3.3%	0.6%	0.9%	59.8%
63			37	165	10	0.12	0.08	0.23	0.04	0.06	2.96	4.1%	2.8%	7.8%	1.2%	2.0%	100.0%	0.09	0.07	0.16	0.03	0.03	1.56	52.7%	3.0%	2.4%	5.3%	1.0%	1.1%	52.7%

[Folder Closed Status]

- J–patch Low CH

												max ratio out of all beams													max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						9.3%	67.2%	19.2%	10.8%	3.2%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						65.7%	7.5%	41.3%	13.3%	7.8%	1.8%	65.7%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.06	0.01	0.00	0.00	0.19	2.1%	32.1%	4.8%	0.5%	0.5%	100.0%	0.00	0.03	0.01	0.00	0.00	0.09	45.5%	1.6%	13.4%	3.2%	0.5%	0.5%	45.5%
2			2		1	0.00	0.06	0.01	0.00	0.00	0.15	2.1%	44.1%	6.2%	1.4%	1.4%	100.0%	0.00	0.03	0.01	0.00	0.00	0.06	43.4%	1.4%	18.6%	4.1%	1.4%	0.7%	43.4%
3			4		1	0.00	0.06	0.01	0.00	0.00	0.17	2.4%	37.5%	3.0%	1.2%	1.2%	100.0%	0.00	0.03	0.00	0.00	0.00	0.08	47.6%	1.8%	17.3%	1.8%	1.2%	0.6%	47.6%
4			6		1	0.00	0.07	0.00	0.01	0.00	0.15	2.0%	44.4%	2.6%	3.9%	2.0%	100.0%	0.00	0.03	0.00	0.00	0.00	0.06	41.8%	1.3%	20.3%	2.0%	2.6%	1.3%	41.8%
5			8		1	0.01	0.06	0.01	0.01	0.00	0.15	3.9%	40.8%	5.3%	7.9%	2.0%	100.0%	0.01	0.03	0.01	0.01	0.00	0.06	41.4%	3.3%	18.4%	3.9%	5.9%	0.7%	41.4%
6			10		2	0.01	0.16	0.02	0.03	0.01	0.33	3.0%	48.0%	5.8%	9.4%	2.4%	100.0%	0.01	0.07	0.01	0.02	0.00	0.12	37.4%	2.1%	21.3%	4.0%	7.0%	1.2%	37.4%
7			11		2	0.01	0.12	0.01	0.00	0.00	0.25	2.4%	47.8%	2.9%	0.4%	0.8%	100.0%	0.01	0.06	0.00	0.00	0.00	0.12	49.4%	2.0%	25.3%	1.6%	0.4%	0.4%	49.4%
8			12		2	0.01	0.17	0.01	0.00	0.01	0.34	3.3%	50.6%	1.8%	0.6%	1.5%	100.0%	0.01	0.09	0.00	0.00	0.00	0.18	53.3%	2.4%	25.3%	1.2%	0.6%	0.9%	53.3%
9			13		2	0.01	0.13	0.02	0.01	0.01	0.30	3.3%	41.7%	6.3%	2.0%	1.7%	100.0%	0.01	0.05	0.01	0.01	0.00	0.11	37.7%	3.0%	17.3%	4.3%	2.0%	1.0%	37.7%
10			18		2	0.01	0.12	0.02	0.03	0.01	0.27	4.1%	43.5%	5.9%	10.8%	2.6%	100.0%	0.01	0.06	0.01	0.02	0.00	0.12	42.8%	2.6%	21.9%	4.1%	7.8%	1.1%	42.8%
11			19		2	0.01	0.16	0.03	0.00	0.00	0.34	1.7%	45.2%	7.6%	0.6%	0.9%	100.0%	0.01	0.08	0.02	0.00	0.00	0.17	48.7%	1.5%	22.4%	5.0%	0.6%	0.6%	48.7%
12			20		2	0.01	0.22	0.01	0.01	0.01	0.45	2.4%	48.9%	2.9%	1.3%	2.0%	100.0%	0.01	0.10	0.01	0.01	0.01	0.24	52.4%	1.6%	21.1%	2.0%	1.1%	1.1%	52.4%
13			24		5	0.03	0.32	0.03	0.05	0.01	0.56	5.0%	58.0%	5.7%	9.5%	2.5%	100.0%	0.02	0.17	0.02	0.04	0.01	0.25	44.3%	3.9%	30.2%	4.3%	7.4%	1.1%	44.3%
14			25		5	0.03	0.17	0.03	0.03	0.01	0.49	5.7%	35.0%	5.7%	5.3%	1.2%	100.0%	0.02	0.10	0.02	0.02	0.00	0.25	50.8%	4.7%	20.1%	4.3%	4.1%	0.6%	50.8%
15			26		5	0.02	0.38	0.01	0.01	0.01	0.71	3.1%	53.9%	2.0%	0.7%	1.1%	100.0%	0.02	0.24	0.01	0.00	0.01	0.39	55.1%	2.7%	34.3%	1.4%	0.6%	0.7%	55.1%
16			27		5	0.03	0.57	0.06	0.01	0.03	0.99	2.8%	58.0%	6.0%	0.8%	2.6%	100.0%	0.03	0.34	0.04	0.01	0.02	0.65	65.7%	2.5%	34.2%	4.2%	0.6%	1.6%	65.7%
17			28		5	0.03	0.59	0.06	0.03	0.03	1.14	2.2%	52.0%	5.0%	2.4%	2.9%	100.0%	0.02	0.30	0.05	0.03	0.02	0.56	49.3%	1.6%	26.3%	4.0%	2.2%	1.6%	49.3%
18			34		5	0.03	0.25	0.03	0.05	0.01	0.48	6.4%	52.0%	5.4%	9.4%	2.1%	100.0%	0.03	0.14	0.02	0.04	0.01	0.23	47.8%	5.2%	29.7%	4.4%	7.3%	1.0%	47.8%
19			35		5	0.02	0.33	0.01	0.01	0.01	0.64	3.8%	51.5%	2.2%	1.3%	0.9%	100.0%	0.02	0.21	0.01	0.01	0.00	0.35	55.1%	3.1%	32.2%	1.4%	0.9%	0.6%	55.1%
20			36		5	0.03	0.46	0.04	0.01	0.02	0.68	4.1%	66.6%	6.4%	1.0%	2.3%	100.0%	0.03	0.28	0.03	0.01	0.01	0.42	61.6%	3.7%	41.3%	4.2%	0.9%	1.5%	61.6%
21			37		5	0.03	0.60	0.07	0.01	0.04	1.15	2.6%	52.3%	5.6%	0.8%	3.1%	100.0%	0.02	0.33	0.04	0.01	0.02	0.71	61.9%	1.7%	28.9%	3.7%	0.6%	1.7%	61.9%
22			128		1	0.01	0.05	0.03	0.00	0.00	0.22	2.3%	23.9%	12.4%	0.9%	0.5%	100.0%	0.00	0.02	0.02	0.00	0.00	0.10	47.2%	1.4%	11.0%	9.6%	0.5%	0.5%	47.2%
23			130		1	0.01	0.06	0.01	0.00	0.00	0.16	5.6%	34.0%	6.8%	0.6%	1.2%	100.0%	0.01	0.02	0.01	0.00	0.00	0.07	45.1%	4.9%	13.6%	4.9%	0.6%	0.6%	45.1%
24			132		1	0.01	0.05	0.01	0.00	0.00	0.18	4.5%	27.8%	6.3%	1.7%	1.1%	100.0%	0.01	0.02	0.01	0.00	0.00	0.07	40.3%	4.0%	12.5%	4.5%	1.1%	0.6%	40.3%
25			134		1	0.01	0.04	0.01	0.00	0.00	0.18	4.4%	23.2%	4.4%	2.2%	0.6%	100.0%	0.01	0.02	0.01	0.00	0.00	0.07	40.3%	3.3%	11.0%	2.8%	1.7%	0.6%	40.3%
26			136		1	0.01	0.05	0.01	0.00	0.00	0.22	5.1%	22.8%	4.7%	1.9%	0.5%	100.0%	0.01	0.02	0.01	0.00	0.00	0.09	42.8%	4.2%	10.7%	3.3%	1.4%	0.0%	42.8%
27			138		2	0.01	0.15	0.02	0.01	0.01	0.38	2.6%	39.9%	5.0%	1.6%	1.3%	100.0%	0.01	0.07	0.01	0.00	0.00	0.19	50.8%	1.9%	18.5%	3.7%	1.1%	0.8%	50.8%
28			139		2	0.02	0.15	0.02	0.00	0.00	0.42	3.8%	34.8%	5.3%	0.5%	0.5%	100.0%	0.01	0.06	0.01	0.00	0.00	0.22	51.6%	3.3%	14.6%	3.1%	0.2%	0.2%	51.6%
29			140		2	0.02	0.15	0.04	0.00	0.01	0.31	6.9%	48.2%	12.5%	1.0%	1.6%	100.0%	0.02	0.08	0.03	0.00	0.00	0.13	41.3%	5.2%	25.2%	9.2%	0.7%	1.0%	41.3%
30			141		2	0.02	0.07	0.03	0.01	0.01	0.35	4.3%	19.7%	8.4%	2.3%	1.4%	100.0%	0.01	0.03	0.02	0.01	0.00	0.14	41.7%	3.5%	8.4%	6.4%	1.7%	0.9%	41.7%
31			146		2	0.02	0.14	0.01	0.01	0.00	0.39	3.8%	36.1%	3.1%	2.5%	0.8%	100.0%	0.01	0.07	0.01	0.01	0.00	0.20	51.9%	3.1%	17.0%	1.8%	1.8%	0.5%	51.9%
32			147		2	0.01	0.12	0.01	0.00	0.00	0.29	4.5%	41.1%	4.9%	1.0%	0.7%	100.0%	0.01	0.05	0.01	0.00	0.00	0.15	53.7%	3.5%	18.5%	3.1%	0.7%	0.3%	53.7%
33			148		2	0.02	0.09	0.05	0.01	0.01	0.29	5.6%	32.6%	16.1%	1.8%	1.8%	100.0%	0.01	0.05	0.04	0.00	0.00	0.12	42.1%	4.6%	16.1%	13.0%	1.4%	1.1%	42.1%
34			152		5	0.02	0.39	0.10	0.03	0.01	1.10	2.2%	35.2%	8.6%	2.9%	0.8%	100.0%	0.02	0.21	0.05	0.02	0.01	0.66	60.2%	1.5%	19.0%	4.8%	2.1%	0.5%	60.2%
35			153		5	0.07	0.30	0.04	0.01	0.01	0.84	8.1%	35.9%	4.3%	1.3%	0.6%	100.0%	0.06	0.17	0.03	0.01	0.00	0.46	55.3%	6.9%	19.9%	3.1%	1.0%	0.4%	55.3%
36			154		5	0.06	0.37	0.05	0.00	0.00	0.77	8.3%	47.8%	5.9%	0.5%	0.4%	100.0%	0.05	0.22	0.03	0.00	0.00	0.42	54.7%	6.5%	28.8%	4.3%	0.5%	0.3%	54.7%
37			155		5	0.03	0.25	0.08	0.01	0.01	0.70	4.6%	35.9%	11.9%	0.7%	1.7%	100.0%	0.03	0.14	0.06	0.00	0.01	0.37	52.4%	3.7%	19.4%	8.0%	0.6%	1.1%	52.4%
38			156		5	0.02	0.21	0.13	0.01	0.02	0.82	2.8%	26.0%	15.9%	1.3%	1.8%	100.0%	0.02	0.10	0.11	0.01	0.01	0.40	48.5%	2.1%	12.1%	13.3%	1.1%	1.3%	48.5%
39			162		5	0.05	0.39	0.04	0.04	0.01	1.00	4.8%	38.9%	3.8%	3.5%	1.3%	100.0%	0.04	0.22	0.03	0.03	0.01	0.57	57.0%	3.9%	21.7%	2.5%	2.7%	0.8%	57.0%
40			163		5	0.08	0.36	0.02	0.01	0.00	0.84	9.3%	42.5%	1.9%	1.4%	0.2%	100.0%	0.06	0.21	0.01	0.01	0.00	0.45	54.1%	7.5%	25.0%	1.7%	1.1%	0.1%	54.1%
41			164		5	0.03	0.30	0.04	0.00	0.01	0.61	5.6%	48.3%	7.2%	0.5%	1.6%	100.0%	0.03	0.17	0.03	0.00	0.01	0.32	51.6%	4.6%	27.0%	5.6%	0.5%	1.0%	51.6%
42			165		5	0.03	0.19	0.15	0.01	0.02	0.77	3.8%	24.0%	19.2%	1.6%	2.6%	100.0%	0.03	0.09	0.10	0.01	0.01	0.38	48.8%	3.4%	11.9%	12.3%	1.2%	1.8%	48.8%
43			0	128	2	0.01	0.14	0.04	0.01	0.01	0.49	1.8%	28.8%	8.4%	1.0%	1.0%	100.0%	0.01	0.07	0.03	0.00	0.00	0.22	45.5%	1.4%	13.5%	6.5%	0.8%	0.6%	45.5%
44			2	130	2	0.02	0.16	0.04	0.00	0.01	0.37	4.4%	43.1%	9.8%	0.8%	1.4%	100.0%	0.01	0.07	0.02	0.00	0.00	0.15	39.8%	3.5%	20.2%	6.5%	0.8%	0.8%	39.8%
45			4	132	2	0.02	0.14	0.03	0.01	0.01	0.39	3.9%	37.0%	7.5%	1.6%	1.3%	100.0%	0.01	0.07	0.02	0.00	0.00	0.16	41.3%	3.1%	18.1%	4.9%	1.0%	0.8%	41.3%
46			6	134	2	0.01	0.16	0.02	0.02	0.01	0.39	3.6%	41.2%	3.8%	4.8%	1.5%	100.0%	0.01	0.07	0.01	0.01	0.00	0.16	40.7%	2.8%	17.0%	2.5%	3.6%	0.8%	40.7%
47			8	136	2	0.02	0.15	0.03	0.03	0.01	0.38	5.0%	39.9%	7.8%	7.3%	1.8%	100.0%	0.02	0.08	0.02	0.02	0.00	0.17	43.1%	3.9%	19.6%	5.7%	5.5%	0.8%	43.1%
48			10	138	4	0.03	0.32	0.06	0.06	0.02	0.68	3.8%	46.5%	8.4%	8.8%	2.2%	100.0%	0.02	0.16	0.04	0.04	0.01	0.36	53.2%	3.1%	23.9%	6.2%	6.2%	1.3%	53.2%
49			11	139	4	0.03	0.32	0.04	0.00	0.01	0.81	3.1%	39.5%	4.6%	0.4%	0.6%	100.0%	0.02	0.17	0.02	0.00	0.00	0.40	49.4%	2.6%	20.5%	2.9%	0.4%	0.4%	49.4%
50			12	140	4	0.04	0.25	0.05	0.01	0.01	0.54	7.6%	46.0%	9.8%	1.1%	2.2%	100.0%	0.03	0.13	0.04	0.01	0.01	0.25	46.0%	6.3%	23.9%	7.8%	0.9%	1.5%	46.0%
51			13	141	4	0.02	0.22	0.07	0.02	0.01	0.63	3.4%	35.6%	11.5%	2.6%	2.1%	100.0%	0.02	0.10	0.05	0.01	0.01	0.30	48.1%	3.0%	16.5%	7.5%	2.2%	1.3%	48.1%
52			18	146	4	0.03	0.30	0.04	0.07	0.02	0.84	3.6%	35.9%	4.9%	8.3%	2.0%	100.0%	0.02	0.14	0.03	0.05	0.01	0.43	50.5%	2.6%	16.7%	3.2%	5.9%	0.8%	50.5%
53			19	147	4	0.02	0.36	0.07	0.01	0.01	0.70	3.3%	51.9%	10.1%	0.7%	1.4%	100.0%	0.02	0.18	0.05	0.00	0.01	0.39	56.0%	2.7%	25.4%	6.8%	0.6%	0.9%	56.0%
54			20	148	4	0.04	0.36	0.09	0.02	0.02	0.65	5.4%	55.4%	13.3%	2.8%	2.9%	100.0%	0.03	0.19	0.06	0.02	0.01	0.39	59.4%	4.4%	28.8%	9.2%	2.3%	1.8%	59.4%
55			24	152	10	0.07	0.82	0.19	0.16	0.04	1.87	3.8%	43.7%	10.1%	8.4%	2.1%	100.0%	0.06	0.39	0.12	0.12	0.02	1.16	61.9%	3.2%	21.0%	6.5%	6.1%	1.1%	61.9%
56			25	153	10	0.12	0.62	0.10	0.06	0.01	1.77	6.9%	35.0%	5.6%	3.6%	0.8%	100.0%	0.11	0.38	0.07	0.05	0.01	0.94	53.2%	6.1%	21.4%	4.2%	2.7%	0.4%	53.2%
57			26	154	10	0.09	1.00	0.08	0.01	0.02	1.78	5.2%	56.4%	4.3%	0.8%	1.1%	100.0%	0.07	0.64	0.05	0.01	0.01	0.97	54.7%	4.2%	35.9%	3.0%	0.6%	0.7%	54.7%
58			27	155	10	0.10	1.41	0.26	0.02	0.07	2.26	4.5%	62.3%	11.6%	0.8%	2.9%	100.0%	0.09	0.83	0.19	0.01	0.04	1.41	62.3%	3.9%	36.7%	8.2%	0.5%	1.8%	62.3%
59			28	156	10	0.08	1.24	0.29	0.06	0.06	2.32	3.2%	53.4%	12.5%	2.8%	2.7%	100.0%	0.05	0.58	0.21	0.06	0.03	1.22	52.8%	2.0%	25.0%	9.1%	2.6%	1.5%	52.8%
60			34	162	10	0.08	0.78	0.08	0.16	0.04	1.74	4.6%	45.1%	4.8%	9.0%	2.2%	100.0%	0.07	0.42	0.05	0.12	0.02	1.02	58.7%	3.8%	24.1%	3.0%	7.0%	1.3%	58.7%
61			35	163	10	0.11	0.80	0.05	0.03	0.01	1.86	5.9%	43.1%	2.7%	1.8%	0.6%	100.0%	0.09	0.50	0.03	0.03	0.01	1.03	55.2%	4.9%	27.1%	1.7%	1.3%	0.4%	55.2%
62			36	164	10	0.09	1.29	0.15	0.02	0.05	1.92	4.7%	67.2%	7.6%	0.8%	2.4%	100.0%	0.08	0.78	0.09	0.01	0.03	1.16	60.4%	4.0%	40.9%	4.8%	0.6%	1.5%	60.4%
63			37	165	10	0.10	1.34	0.37	0.04	0.07	2.34	4.3%	57.1%	15.7%	1.5%	3.2%	100.0%	0.06	0.72	0.25	0.03	0.04	1.44	61.4%	2.7%	30.8%	10.5%	1.2%	1.8%	61.4%

- J–patch Mid CH

												max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						7.2%	59.9%	12.6%	5.9%	2.6%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						69.1%	5.9%	36.6%	9.0%	4.1%	1.5%	69.1%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.07	0.01	0.00	0.00	0.23	1.3%	29.9%	3.0%	0.4%	0.4%	100.0%	0.00	0.03	0.01	0.00	0.00	0.11	49.4%	0.9%	12.6%	2.6%	0.4%	0.4%	49.4%
2			2		1	0.01	0.08	0.01	0.00	0.00	0.21	2.4%	36.5%	5.3%	1.4%	1.0%	100.0%	0.00	0.03	0.01	0.00	0.00	0.09	41.3%	1.4%	15.4%	3.8%	1.4%	0.5%	41.3%
3			4		1	0.00	0.07	0.01	0.00	0.00	0.20	2.0%	35.8%	3.4%	1.0%	1.0%	100.0%	0.00	0.03	0.00	0.00	0.00	0.09	41.7%	1.5%	16.2%	2.0%	0.5%	0.5%	41.7%
4			6		1	0.01	0.07	0.01	0.00	0.00	0.20	3.0%	36.6%	3.5%	2.0%	1.0%	100.0%	0.01	0.03	0.01	0.00	0.00	0.07	35.1%	2.5%	15.8%	2.5%	1.5%	0.5%	35.1%
5			8		1	0.00	0.08	0.01	0.01	0.00	0.21	1.9%	38.3%	2.4%	3.8%	1.0%	100.0%	0.00	0.03	0.00	0.01	0.00	0.08	39.2%	1.4%	14.8%	1.9%	2.9%	0.5%	39.2%
6			10		2	0.01	0.20	0.02	0.02	0.01	0.40	1.5%	51.6%	3.8%	5.1%	2.0%	100.0%	0.01	0.10	0.01	0.01	0.00	0.17	43.3%	1.3%	24.6%	2.8%	3.5%	1.0%	43.3%
7			11		2	0.01	0.18	0.01	0.00	0.00	0.41	1.5%	43.5%	2.0%	0.5%	0.5%	100.0%	0.01	0.09	0.01	0.00	0.00	0.21	52.8%	1.2%	22.2%	1.2%	0.2%	0.2%	52.8%
8			12		2	0.02	0.20	0.01	0.00	0.01	0.42	3.6%	47.0%	2.4%	0.5%	1.2%	100.0%	0.01	0.09	0.01	0.00	0.00	0.20	48.7%	2.9%	22.1%	1.4%	0.5%	0.7%	48.7%
9			13		2	0.01	0.14	0.02	0.01	0.00	0.39	2.6%	34.6%	4.6%	1.8%	1.0%	100.0%	0.01	0.06	0.01	0.01	0.00	0.14	36.4%	1.8%	14.9%	3.3%	1.8%	0.5%	36.4%
10			18		2	0.01	0.14	0.01	0.02	0.01	0.39	1.8%	36.2%	3.1%	5.9%	1.3%	100.0%	0.01	0.07	0.01	0.02	0.00	0.18	47.0%	1.3%	18.1%	2.1%	4.1%	0.5%	47.0%
11			19		2	0.01	0.18	0.03	0.00	0.00	0.44	1.8%	41.3%	5.6%	0.5%	0.9%	100.0%	0.01	0.10	0.02	0.00	0.00	0.24	54.4%	1.4%	21.7%	3.8%	0.2%	0.5%	54.4%
12			20		2	0.01	0.23	0.02	0.00	0.01	0.46	2.8%	50.2%	4.5%	0.9%	1.5%	100.0%	0.01	0.11	0.01	0.00	0.00	0.22	48.3%	1.9%	22.8%	2.8%	0.9%	0.9%	48.3%
13			24		5	0.03	0.45	0.04	0.03	0.01	0.89	2.8%	51.1%	4.9%	3.2%	1.2%	100.0%	0.02	0.25	0.03	0.02	0.01	0.40	45.5%	2.1%	28.2%	2.9%	2.1%	0.7%	45.5%
14			25		5	0.03	0.28	0.02	0.03	0.01	0.75	3.5%	37.0%	3.2%	3.3%	0.8%	100.0%	0.02	0.17	0.02	0.02	0.00	0.40	53.8%	2.7%	22.6%	2.5%	2.3%	0.4%	53.8%
15			26		5	0.03	0.44	0.02	0.01	0.01	0.96	3.2%	45.9%	2.2%	0.7%	0.6%	100.0%	0.02	0.29	0.02	0.01	0.00	0.60	62.4%	2.5%	29.9%	1.7%	0.5%	0.4%	62.4%
16			27		5	0.05	0.60	0.08	0.01	0.02	1.12	4.8%	53.8%	6.9%	0.5%	1.5%	100.0%	0.04	0.36	0.05	0.01	0.01	0.65	57.9%	3.6%	31.9%	4.7%	0.4%	0.9%	57.9%
17			28		5	0.03	0.69	0.07	0.03	0.03	1.21	2.5%	56.7%	5.7%	2.5%	2.6%	100.0%	0.02	0.35	0.06	0.03	0.02	0.64	52.8%	1.7%	29.1%	4.5%	2.1%	1.4%	52.8%
18			34		5	0.03	0.43	0.02	0.03	0.01	0.90	3.1%	48.3%	2.6%	3.6%	0.7%	100.0%	0.02	0.25	0.02	0.02	0.00	0.43	47.6%	2.3%	28.0%	1.8%	2.4%	0.4%	47.6%
19			35		5	0.03	0.39	0.01	0.01	0.01	0.90	3.1%	42.7%	1.2%	1.1%	0.6%	100.0%	0.02	0.25	0.01	0.01	0.00	0.55	60.5%	2.3%	27.4%	0.9%	0.9%	0.3%	60.5%
20			36		5	0.05	0.55	0.04	0.01	0.01	0.99	5.5%	55.4%	3.9%	0.7%	1.3%	100.0%	0.04	0.34	0.03	0.01	0.01	0.56	56.4%	4.0%	34.1%	2.6%	0.5%	0.9%	56.4%
21			37		5	0.03	0.64	0.09	0.01	0.03	1.07	2.8%	59.9%	8.1%	0.7%	2.6%	100.0%	0.02	0.36	0.06	0.01	0.02	0.65	60.5%	1.9%	33.9%	5.5%	0.6%	1.5%	60.5%
22			128		1	0.01	0.07	0.02	0.00	0.00	0.24	2.1%	27.8%	9.3%	0.4%	0.8%	100.0%	0.00	0.03	0.02	0.00	0.00	0.11	48.1%	1.7%	13.1%	7.2%	0.4%	0.4%	48.1%
23			130		1	0.01	0.03	0.01	0.00	0.00	0.17	3.5%	19.7%	5.2%	0.6%	1.2%	100.0%	0.01	0.02	0.01	0.00	0.00	0.09	49.1%	2.9%	8.7%	3.5%	0.6%	0.6%	49.1%
24			132		1	0.01	0.04	0.01	0.00	0.00	0.19	3.2%	21.2%	5.3%	1.1%	1.1%	100.0%	0.01	0.02	0.01	0.00	0.00	0.09	45.5%	2.6%	9.5%	3.7%	0.5%	0.5%	45.5%
25			134		1	0.01	0.05	0.01	0.00	0.00	0.21	2.4%	24.6%	2.4%	1.4%	0.5%	100.0%	0.01	0.02	0.00	0.00	0.00	0.10	49.3%	2.4%	10.4%	1.9%	0.9%	0.0%	49.3%
26			136		1	0.01	0.05	0.01	0.00	0.00	0.24	4.1%	21.6%	3.7%	1.7%	0.4%	100.0%	0.01	0.02	0.01	0.00	0.00	0.12	47.7%	3.3%	10.0%	3.3%	1.2%	0.0%	47.7%
27			138		2	0.01	0.11	0.01	0.00	0.00	0.38	2.4%	30.1%	3.7%	1.1%	0.5%	100.0%	0.01	0.05	0.01	0.00	0.00	0.21	56.3%	1.6%	14.4%	2.9%	0.8%	0.3%	56.3%
28			139		2	0.01	0.13	0.03	0.00	0.00	0.40	3.0%	31.9%	7.2%	0.5%	0.2%	100.0%	0.01	0.06	0.02	0.00	0.00	0.23	56.2%	2.7%	15.8%	5.4%	0.2%	0.2%	56.2%
29			140		2	0.02	0.11	0.04	0.00	0.00	0.34	5.3%	33.5%	10.7%	0.6%	1.2%	100.0%	0.02	0.06	0.03	0.00	0.00	0.19	54.9%	4.5%	17.5%	8.6%	0.3%	0.9%	54.9%
30			141		2	0.01	0.06	0.03	0.00	0.01	0.41	3.4%	14.8%	6.1%	1.0%	1.2%	100.0%	0.01	0.03	0.02	0.00	0.00	0.18	44.3%	2.4%	7.5%	4.4%	1.0%	0.7%	44.3%
31			146		2	0.01	0.13	0.01	0.01	0.00	0.38	3.4%	33.2%	3.1%	1.8%	0.5%	100.0%	0.01	0.06	0.01	0.01	0.00	0.23	60.1%	2.6%	16.7%	1.6%	1.3%	0.3%	60.1%
32			147		2	0.01	0.14	0.01	0.00	0.00	0.36	3.0%	37.6%	3.3%	0.5%	0.5%	100.0%	0.01	0.06	0.01	0.00	0.00	0.23	62.1%	2.5%	17.3%	2.2%	0.5%	0.3%	62.1%
33			148		2	0.01	0.09	0.04	0.00	0.01	0.36	3.3%	25.7%	9.9%	0.6%	1.4%	100.0%	0.01	0.05	0.03	0.00	0.00	0.15	41.7%	2.8%	13.0%	7.2%	0.6%	1.1%	41.7%
34			152		5	0.04	0.31	0.06	0.02	0.01	0.98	3.8%	31.9%	5.7%	1.5%	0.6%	100.0%	0.02	0.17	0.03	0.01	0.00	0.60	61.3%	2.2%	17.3%	3.3%	1.0%	0.4%	61.3%
35			153		5	0.08	0.35	0.03	0.01	0.00	1.04	7.2%	34.0%	2.4%	1.3%	0.4%	100.0%	0.06	0.20	0.01	0.01	0.00	0.62	59.5%	5.9%	19.1%	1.3%	0.9%	0.2%	59.5%
36			154		5	0.03	0.33	0.05	0.01	0.00	0.69	3.8%	48.2%	7.7%	0.9%	0.3%	100.0%	0.02	0.20	0.04	0.01	0.00	0.48	69.1%	3.1%	29.5%	6.4%	0.7%	0.1%	69.1%
37			155		5	0.04	0.25	0.09	0.01	0.02	0.91	4.7%	27.7%	9.4%	0.6%	1.7%	100.0%	0.03	0.15	0.06	0.00	0.01	0.53	58.8%	3.7%	17.0%	6.3%	0.4%	1.0%	58.8%
38			156		5	0.03	0.19	0.11	0.01	0.01	0.93	3.3%	20.3%	11.9%	1.3%	1.1%	100.0%	0.02	0.10	0.08	0.01	0.01	0.42	44.7%	2.2%	10.3%	9.0%	1.1%	0.6%	44.7%
39			162		5	0.05	0.33	0.04	0.03	0.01	1.04	4.7%	31.8%	3.5%	2.6%	0.5%	100.0%	0.04	0.19	0.02	0.02	0.00	0.60	58.0%	3.7%	17.8%	2.1%	1.9%	0.3%	58.0%
40			163		5	0.05	0.35	0.05	0.01	0.00	0.87	5.2%	40.8%	5.3%	1.6%	0.3%	100.0%	0.04	0.21	0.04	0.01	0.00	0.58	66.8%	4.0%	24.2%	4.3%	1.3%	0.1%	66.8%
41			164		5	0.05	0.30	0.05	0.01	0.01	0.79	6.7%	38.4%	6.6%	0.8%	1.1%	100.0%	0.04	0.19	0.04	0.01	0.01	0.45	57.5%	5.4%	24.4%	5.2%	0.6%	0.6%	57.5%
42			165		5	0.04	0.19	0.10	0.01	0.01	1.06	4.1%	17.7%	9.3%	1.1%	0.9%	100.0%	0.03	0.10	0.06	0.01	0.01	0.55	51.7%	2.6%	9.5%	5.5%	0.8%	0.6%	51.7%
43			0	128	2	0.01	0.19	0.04	0.00	0.01	0.56	1.6%	33.7%	6.7%	0.7%	0.9%	100.0%	0.01	0.09	0.03	0.00	0.00	0.27	48.3%	1.3%	16.0%	4.5%	0.7%	0.5%	48.3%
44			2	130	2	0.02	0.15	0.04	0.00	0.01	0.46	3.7%	32.7%	7.7%	0.9%	1.1%	100.0%	0.01	0.07	0.02	0.00	0.00	0.20	44.3%	2.9%	14.9%	5.0%	0.9%	0.7%	44.3%
45			4	132	2	0.02	0.15	0.03	0.00	0.00	0.43	4.0%	35.0%	6.8%	0.7%	0.9%	100.0%	0.01	0.07	0.02	0.00	0.00	0.20	46.9%	2.8%	16.3%	4.2%	0.5%	0.7%	46.9%
46			6	134	2	0.02	0.15	0.01	0.01	0.00	0.47	3.2%	32.9%	3.0%	3.0%	0.9%	100.0%	0.01	0.06	0.01	0.01	0.00	0.20	43.7%	2.4%	13.3%	2.2%	1.9%	0.4%	43.7%
47			8	136	2	0.02	0.17	0.03	0.02	0.01	0.44	3.8%	37.8%	5.6%	5.2%	1.1%	100.0%	0.01	0.08	0.02	0.02	0.00	0.21	46.8%	3.2%	17.6%	4.7%	3.6%	0.5%	46.8%
48			10	138	4	0.02	0.27	0.04	0.03	0.01	0.64	2.5%	41.5%	6.6%	5.0%	1.9%	100.0%	0.01	0.14	0.03	0.02	0.01	0.35	55.4%	2.0%	21.4%	4.9%	3.6%	1.1%	55.4%
49			11	139	4	0.02	0.35	0.04	0.01	0.00	0.98	2.3%	35.7%	4.2%	0.5%	0.4%	100.0%	0.02	0.17	0.03	0.00	0.00	0.52	53.3%	1.9%	17.7%	3.0%	0.4%	0.2%	53.3%
50			12	140	4	0.04	0.28	0.06	0.01	0.01	0.66	5.4%	41.7%	8.3%	0.8%	1.1%	100.0%	0.03	0.15	0.04	0.00	0.00	0.35	52.7%	4.8%	23.2%	6.3%	0.6%	0.6%	52.7%
51			13	141	4	0.03	0.24	0.06	0.01	0.01	0.77	3.9%	30.8%	8.1%	1.7%	1.2%	100.0%	0.02	0.11	0.04	0.01	0.01	0.30	39.4%	2.6%	13.8%	5.4%	1.4%	0.7%	39.4%
52			18	146	4	0.02	0.31	0.03	0.05	0.01	0.92	2.3%	33.7%	3.5%	5.9%	1.3%	100.0%	0.02	0.16	0.02	0.04	0.00	0.53	57.7%	1.7%	16.8%	2.4%	4.1%	0.4%	57.7%
53			19	147	4	0.03	0.38	0.06	0.00	0.01	0.86	3.3%	44.6%	6.9%	0.5%	1.1%	100.0%	0.02	0.19	0.04	0.00	0.01	0.53	61.8%	2.3%	22.5%	4.6%	0.5%	0.6%	61.8%
54			20	148	4	0.03	0.35	0.09	0.01	0.01	0.79	3.9%	44.1%	11.6%	1.1%	1.6%	100.0%	0.03	0.18	0.06	0.01	0.01	0.39	48.7%	3.3%	22.8%	7.6%	0.8%	1.1%	48.7%
55			24	152	10	0.10	0.80	0.15	0.08	0.02	2.21	4.3%	36.1%	6.7%	3.6%	0.7%	100.0%	0.07	0.46	0.10	0.06	0.01	1.16	52.7%	2.9%	21.0%	4.4%	2.5%	0.4%	52.7%
56			25	153	10	0.11	0.91	0.06	0.07	0.02	2.41	4.7%	38.0%	2.3%	3.0%	0.6%	100.0%	0.09	0.56	0.04	0.05	0.01	1.38	57.5%	3.8%	23.1%	1.6%	2.1%	0.3%	57.5%
57			26	154	10	0.07	0.98	0.10	0.02	0.01	1.97	3.7%	49.6%	5.0%	0.9%	0.6%	100.0%	0.06	0.62	0.07	0.02	0.01	1.25	63.7%	3.2%	31.5%	3.7%	0.8%	0.4%	63.7%
58			27	155	10	0.16	1.36	0.29	0.01	0.05	2.47	6.6%	55.1%	11.9%	0.5%	1.9%	100.0%	0.13	0.81	0.21	0.01	0.03	1.43	57.9%	5.1%	32.6%	8.3%	0.4%	1.1%	57.9%
59			28	156	10	0.07	1.16	0.21	0.05	0.05	2.39	2.9%	48.6%	8.9%	1.9%	2.1%	100.0%	0.05	0.60	0.17	0.04	0.03	1.29	53.8%	1.9%	24.9%	7.0%	1.6%	1.2%	53.8%
60			34	162	10	0.11	0.77	0.10	0.11	0.02	2.34	4.7%	32.8%	4.4%	4.9%	1.0%	100.0%	0.08	0.45	0.07	0.08	0.01	1.28	54.6%	3.6%	19.4%	2.8%	3.5%	0.5%	54.6%
61			35	163	10	0.08	0.95	0.07	0.04	0.01	2.22	3.6%	42.9%	3.2%	2.0%	0.5%	100.0%	0.06	0.60	0.06	0.04	0.01	1.40	63.3%	2.8%	27.2%	2.9%	1.6%	0.2%	63.3%
62			36	164	10	0.16	1.37	0.16	0.02	0.03	2.33	6.9%	58.7%	6.7%	0.8%	1.2%	100.0%	0.12	0.85	0.10	0.02	0.02	1.37	58.6%	5.1%	36.6%	4.1%	0.6%	0.9%	58.6%
63			37	165	10	0.12	1.27	0.33	0.02	0.05	2.59	4.6%	49.1%	12.6%	0.8%	1.8%	100.0%	0.08	0.69	0.22	0.02	0.03	1.41	54.4%	3.0%	26.6%	8.5%	0.7%	1.0%	54.4%

- J–patch High CH

												max ratio out of all beams												max ratio out of all beams						
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						6.3%	52.1%	12.0%	3.5%	2.3%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.2%	4.7%	30.6%	9.1%	2.4%	1.2%	70.2%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
1	J	Patch	0		1	0.00	0.06	0.01	0.00	0.00	0.23	1.7%	25.4%	3.0%	0.4%	0.4%	100.0%	0.00	0.03	0.01	0.00	0.00	0.12	52.6%	1.3%	11.2%	2.2%	0.4%	0.0%	52.6%
2			2		1	0.00	0.08	0.01	0.00	0.00	0.24	1.7%	32.8%	2.6%	0.9%	0.9%	100.0%	0.00	0.03	0.00	0.00	0.00	0.10	44.3%	1.3%	13.6%	1.7%	0.9%	0.4%	44.3%
3			4		1	0.01	0.07	0.01	0.00	0.00	0.24	2.5%	28.3%	2.1%	0.4%	0.4%	100.0%	0.01	0.03	0.00	0.00	0.00	0.10	43.0%	2.1%	12.2%	1.7%	0.4%	0.4%	43.0%
4			6		1	0.01	0.07	0.00	0.00	0.00	0.25	2.0%	29.0%	1.6%	0.4%	0.4%	100.0%	0.00	0.03	0.00	0.00	0.00	0.11	42.9%	1.2%	13.5%	1.2%	0.4%	0.4%	42.9%
5			8		1	0.00	0.07	0.01	0.00	0.00	0.24	1.7%	30.9%	2.1%	1.7%	0.4%	100.0%	0.00	0.03	0.00	0.00	0.00	0.11	46.2%	1.7%	13.1%	1.3%	0.8%	0.4%	46.2%
6			10		2	0.01	0.14	0.01	0.01	0.00	0.47	1.7%	30.5%	2.6%	1.3%	0.9%	100.0%	0.01	0.07	0.01	0.00	0.00	0.16	34.8%	1.3%	14.5%	1.9%	0.9%	0.4%	34.8%
7			11		2	0.01	0.17	0.01	0.00	0.00	0.45	2.5%	37.1%	1.1%	0.2%	0.7%	100.0%	0.01	0.09	0.00	0.00	0.00	0.25	56.5%	1.6%	19.0%	0.7%	0.2%	0.4%	56.5%
8			12		2	0.01	0.19	0.01	0.00	0.00	0.49	2.9%	38.2%	1.4%	0.4%	0.8%	100.0%	0.01	0.10	0.01	0.00	0.00	0.27	54.7%	2.0%	19.6%	1.0%	0.2%	0.4%	54.7%
9			13		2	0.01	0.13	0.02	0.00	0.00	0.44	2.8%	29.1%	3.9%	0.9%	0.9%	100.0%	0.01	0.06	0.01	0.00	0.00	0.16	37.4%	2.1%	13.3%	3.0%	0.9%	0.5%	37.4%
10			18		2	0.01	0.16	0.01	0.01	0.00	0.47	1.7%	33.3%	1.5%	1.7%	0.4%	100.0%	0.01	0.09	0.01	0.01	0.00	0.25	54.3%	1.3%	18.4%	1.1%	1.1%	0.2%	54.3%
11			19		2	0.01	0.18	0.01	0.00	0.00	0.46	2.0%	38.7%	3.1%	0.2%	0.7%	100.0%	0.01	0.09	0.01	0.00	0.00	0.27	59.8%	1.3%	19.3%	2.0%	0.2%	0.4%	59.8%
12			20		2	0.01	0.20	0.02	0.00	0.01	0.50	2.8%	39.1%	3.0%	0.6%	1.0%	100.0%	0.01	0.10	0.01	0.00	0.00	0.25	49.8%	2.2%	19.8%	2.0%	0.4%	0.6%	49.8%
13			24		5	0.04	0.39	0.04	0.02	0.01	1.00	4.4%	39.3%	4.1%	1.7%	0.8%	100.0%	0.03	0.23	0.03	0.02	0.00	0.55	55.2%	3.1%	23.1%	2.6%	1.5%	0.4%	55.2%
14			25		5	0.04	0.37	0.01	0.01	0.01	0.96	3.9%	37.9%	1.3%	0.9%	0.8%	100.0%	0.03	0.23	0.01	0.01	0.01	0.54	56.4%	2.8%	23.3%	0.9%	0.7%	0.5%	56.4%
15			26		5	0.04	0.37	0.02	0.01	0.01	1.05	4.0%	35.3%	1.6%	0.6%	0.8%	100.0%	0.03	0.23	0.01	0.01	0.01	0.69	65.5%	3.2%	22.0%	1.3%	0.5%	0.5%	65.5%
16			27		5	0.07	0.57	0.06	0.00	0.02	1.19	6.0%	48.1%	4.9%	0.3%	1.6%	100.0%	0.06	0.35	0.04	0.00	0.01	0.64	53.9%	4.7%	29.5%	3.1%	0.3%	1.0%	53.9%
17			28		5	0.02	0.48	0.07	0.01	0.02	1.06	2.0%	45.4%	6.3%	1.3%	2.2%	100.0%	0.02	0.26	0.05	0.01	0.01	0.58	55.0%	1.5%	24.7%	4.8%	1.0%	1.1%	55.0%
18			34		5	0.05	0.41	0.03	0.01	0.00	1.12	4.4%	36.9%	2.4%	0.6%	0.4%	100.0%	0.03	0.25	0.02	0.01	0.00	0.64	56.9%	2.9%	22.2%	1.4%	0.4%	0.2%	56.9%
19			35		5	0.03	0.36	0.02	0.01	0.01	1.02	3.1%	35.5%	1.8%	0.5%	0.8%	100.0%	0.02	0.22	0.01	0.00	0.01	0.65	64.2%	2.1%	21.2%	1.4%	0.3%	0.5%	64.2%
20			36		5	0.06	0.49	0.03	0.00	0.01	1.19	5.0%	41.5%	2.5%	0.2%	1.0%	100.0%	0.04	0.31	0.02	0.00	0.01	0.69	58.4%	3.5%	25.9%	1.6%	0.2%	0.7%	58.4%
21			37		5	0.04	0.58	0.06	0.00	0.03	1.10	3.9%	52.1%	5.1%	0.3%	2.3%	100.0%	0.03	0.34	0.04	0.00	0.01	0.59	53.5%	3.0%	30.6%	3.4%	0.3%	1.2%	53.5%
22			128		1	0.00	0.04	0.03	0.00	0.00	0.21	1.4%	20.2%	12.0%	0.5%	0.5%	100.0%	0.00	0.02	0.02	0.00	0.00	0.10	46.2%	1.0%	9.1%	9.1%	0.5%	0.5%	46.2%
23			130		1	0.01	0.04	0.01	0.00	0.00	0.18	3.3%	22.0%	6.0%	0.5%	1.1%	100.0%	0.01	0.02	0.01	0.00	0.00	0.09	47.3%	2.7%	11.0%	3.8%	0.5%	0.5%	47.3%
24			132		1	0.01	0.05	0.01	0.00	0.00	0.21	2.3%	21.1%	3.8%	0.5%	0.5%	100.0%	0.00	0.02	0.01	0.00	0.00	0.10	45.5%	1.9%	10.8%	2.8%	0.5%	0.5%	45.5%
25			134		1	0.00	0.04	0.01	0.00	0.00	0.21	2.0%	19.5%	3.4%	0.5%	0.5%	100.0%	0.00	0.02	0.01	0.00	0.00	0.10	48.3%	1.5%	8.3%	2.4%	0.5%	0.0%	48.3%
26			136		1	0.01	0.05	0.01	0.01	0.00	0.19	2.6%	26.5%	2.6%	2.6%	0.5%	100.0%	0.00	0.02	0.00	0.00	0.00	0.10	51.9%	2.1%	12.7%	2.1%	1.6%	0.0%	51.9%
27			138		2	0.01	0.13	0.02	0.00	0.00	0.42	1.7%	30.9%	3.6%	0.5%	0.2%	100.0%	0.01	0.07	0.01	0.00	0.00	0.23	56.0%	1.4%	16.5%	2.9%	0.5%	0.2%	56.0%
28			139		2	0.01	0.10	0.03	0.00	0.00	0.36	2.8%	27.0%	9.6%	0.6%	0.6%	100.0%	0.01	0.05	0.03	0.00	0.00	0.22	60.6%	2.3%	14.6%	7.0%	0.6%	0.3%	60.6%
29			140		2	0.01	0.12	0.04	0.00	0.01	0.33	3.0%	36.0%	11.8%	0.3%	1.5%	100.0%	0.01	0.07	0.03	0.00	0.00	0.20	59.2%	2.4%	20.5%	7.6%	0.3%	0.9%	59.2%
30			141		2	0.01	0.07	0.02	0.00	0.00	0.43	2.3%	16.9%	5.4%	0.7%	0.7%	100.0%	0.01	0.04	0.02	0.00	0.00	0.18	42.0%	1.6%	9.2%	4.0%	0.5%	0.5%	42.0%
31			146		2	0.01	0.13	0.01	0.00	0.00	0.42	1.9%	30.9%	3.3%	1.0%	0.2%	100.0%	0.01	0.06	0.01	0.00	0.00	0.26	62.0%	1.4%	15.0%	2.6%	0.7%	0.2%	62.0%
32			147		2	0.01	0.10	0.01	0.00	0.00	0.34	2.9%	29.4%	2.9%	0.3%	0.3%	100.0%	0.01	0.05	0.01	0.00	0.00	0.23	66.8%	2.3%	13.7%	2.0%	0.3%	0.3%	66.8%
33			148		2	0.01	0.09	0.04	0.00	0.01	0.38	2.4%	24.4%	10.1%	0.5%	1.3%	100.0%	0.01	0.05	0.02	0.00	0.00	0.17	44.3%	1.9%	14.3%	6.4%	0.5%	0.8%	44.3%
34			152		5	0.04	0.34	0.08	0.01	0.00	1.12	3.2%	30.1%	7.0%	0.9%	0.4%	100.0%	0.03	0.20	0.06	0.01	0.00	0.66	59.1%	2.2%	17.6%	5.0%	0.8%	0.2%	59.1%
35			153		5	0.05	0.33	0.04	0.01	0.00	0.91	5.3%	36.4%	4.8%	1.4%	0.3%	100.0%	0.04	0.18	0.03	0.01	0.00	0.62	67.5%	3.8%	19.6%	3.6%	1.0%	0.2%	67.5%
36			154		5	0.02	0.21	0.04	0.01	0.00	0.61	3.6%	33.9%	6.9%	1.1%	0.5%	100.0%	0.02	0.11	0.03	0.01	0.00	0.43	69.7%	2.6%	18.0%	5.4%	0.8%	0.3%	69.7%
37			155		5	0.03	0.31	0.09	0.01	0.02	0.90	3.1%	34.3%	10.4%	0.7%	1.7%	100.0%	0.02	0.18	0.06	0.00	0.01	0.58	64.5%	2.7%	20.5%	6.8%	0.4%	1.2%	64.5%
38			156		5	0.04	0.18	0.09	0.01	0.01	0.93	4.1%	19.1%	9.2%	1.2%	0.8%	100.0%	0.03	0.09	0.07	0.01	0.00	0.48	52.0%	2.8%	10.1%	7.5%	1.0%	0.4%	52.0%
39			162		5	0.03	0.35	0.04	0.02	0.00	1.01	2.9%	34.6%	4.1%	1.7%	0.3%	100.0%	0.02	0.20	0.03	0.01	0.00	0.64	63.1%	2.3%	20.2%	2.8%	1.1%	0.2%	63.1%
40			163		5	0.03	0.23	0.05	0.01	0.00	0.66	4.6%	34.3%	7.0%	1.4%	0.5%	100.0%	0.02	0.12	0.04	0.01	0.00	0.46	70.1%	3.3%	18.5%	5.5%	0.8%	0.3%	70.1%
41			164		5	0.03	0.34	0.05	0.01	0.01	0.80	3.7%	41.7%	5.7%	0.6%	0.9%	100.0%	0.03	0.21	0.03	0.00	0.01	0.54	67.5%	3.1%	25.9%	3.5%	0.4%	0.6%	67.5%
42			165		5	0.04	0.20	0.08	0.01	0.01	1.04	4.1%	19.3%	7.7%	1.0%	1.1%	100.0%	0.03	0.12	0.06	0.01	0.01	0.63	60.4%	2.7%	11.1%	5.4%	0.7%	0.7%	60.4%
43			0	128	2	0.01	0.13	0.03	0.00	0.00	0.52	1.9%	25.5%	6.2%	0.6%	0.6%	100.0%	0.01	0.06	0.02	0.00	0.00	0.26	50.2%	1.4%	12.0%	4.6%	0.6%	0.4%	50.2%
44			2	130	2	0.01	0.15	0.03	0.00	0.01	0.46	2.8%	32.4%	6.7%	0.9%	1.1%	100.0%	0.01	0.07	0.02	0.00	0.00	0.21	45.2%	2.2%	15.2%	4.1%	0.9%	0.9%	45.2%
45			4	132	2	0.02	0.13	0.02	0.00	0.00	0.49	3.7%	25.6%	4.1%	0.8%	0.6%	100.0%	0.02	0.06	0.01	0.00	0.00	0.22	44.2%	3.2%	12.6%	2.6%	0.6%	0.4%	44.2%
46			6	134	2	0.01	0.13	0.01	0.01	0.00	0.47	2.3%	28.0%	3.0%	1.1%	0.4%	100.0%	0.01	0.06	0.01	0.00	0.00	0.24	50.1%	1.7%	13.0%	2.3%	0.6%	0.4%	50.1%
47			8	136	2	0.01	0.15	0.02	0.02	0.00	0.46	2.9%	33.3%	3.3%	3.5%	0.9%	100.0%	0.01	0.07	0.01	0.01	0.00	0.22	48.7%	2.2%	15.8%	2.6%	2.4%	0.4%	48.7%
48			10	138	4	0.02	0.23	0.04	0.01	0.01	0.76	2.9%	30.1%	5.3%	1.4%	0.7%	100.0%	0.02	0.13	0.03	0.01	0.00	0.40	52.5%	2.2%	16.6%	4.1%	1.2%	0.4%	52.5%
49			11	139	4	0.02	0.31	0.05	0.01	0.01	0.93	2.2%	33.6%	5.1%	0.6%	0.9%	100.0%	0.02	0.14	0.04	0.01	0.01	0.55	59.2%	1.8%	15.4%	3.9%	0.6%	0.5%	59.2%
50			12	140	4	0.03	0.26	0.06	0.01	0.01	0.77	3.4%	34.2%	8.2%	0.7%	1.2%	100.0%	0.02	0.15	0.04	0.00	0.01	0.43	56.3%	2.5%	19.7%	5.0%	0.5%	0.8%	56.3%
51			13	141	4	0.03	0.22	0.06	0.01	0.01	0.90	3.1%	24.4%	6.6%	0.8%	0.8%	100.0%	0.02	0.12	0.04	0.01	0.01	0.37	40.8%	2.4%	13.3%	4.9%	0.7%	0.6%	40.8%
52			18	146	4	0.02	0.32	0.04	0.02	0.00	0.96	2.2%	33.4%	4.1%	2.2%	0.4%	100.0%	0.02	0.17	0.03	0.01	0.00	0.60	62.7%	1.8%	17.4%	3.1%	1.5%	0.3%	62.7%
53			19	147	4	0.03	0.30	0.03	0.00	0.01	0.86	3.1%	35.2%	3.1%	0.3%	0.6%	100.0%	0.02	0.14	0.02	0.00	0.00	0.55	64.3%	2.4%	16.4%	2.0%	0.3%	0.3%	64.3%
54			20	148	4	0.03	0.31	0.08	0.01	0.01	0.85	3.4%	36.7%	9.2%	0.9%	1.5%	100.0%	0.02	0.17	0.05	0.01	0.01	0.40	47.2%	2.7%	20.4%	5.9%	0.8%	1.1%	47.2%
55			24	152	10	0.12	0.92	0.18	0.05	0.02	2.62	4.5%	35.3%	6.9%	1.8%	0.8%	100.0%	0.08	0.58	0.12	0.04	0.01	1.38	52.7%	3.1%	22.1%	4.7%	1.7%	0.4%	52.7%
56			25	153	10	0.10	0.96	0.06	0.04	0.02	2.57	3.8%	37.6%	2.4%	1.7%	0.6%	100.0%	0.08	0.60	0.05	0.03	0.01	1.60	62.2%	3.2%	23.5%	1.8%	1.2%	0.4%	62.2%
57			26	154	10	0.10	0.74	0.08	0.02	0.02	1.85	5.1%	40.2%	4.1%	1.2%	0.9%	100.0%	0.08	0.44	0.06	0.02	0.01	1.30	70.2%	4.1%	23.9%	3.1%	0.9%	0.5%	70.2%
58			27	155	10	0.17	1.18	0.29	0.01	0.05	2.69	6.3%	43.9%	10.7%	0.5%	1.8%	100.0%	0.13	0.70	0.19	0.01	0.03	1.59	59.2%	4.7%	26.0%	7.0%	0.4%	1.2%	59.2%
59			28	156	10	0.09	0.91	0.23	0.03	0.03	2.69	3.4%	33.9%	8.6%	1.2%	1.2%	100.0%	0.06	0.48	0.18	0.03	0.02	1.46	54.5%	2.3%	17.9%	6.6%	0.9%	0.7%	54.5%
60			34	162	10	0.11	0.95	0.10	0.04	0.01	2.60	4.3%	36.5%	3.9%	1.7%	0.3%	100.0%	0.07	0.59	0.07	0.03	0.01	1.49	57.3%	2.8%	22.8%	2.5%	1.0%	0.2%	57.3%
61			35	163	10	0.09	0.76	0.07	0.03	0.02	2.10	4.1%	36.0%	3.4%	1.2%	1.0%	100.0%	0.06	0.48	0.06	0.02	0.01	1.36	64.9%	3.1%	23.0%	2.7%	0.8%	0.6%	64.9%
62			36	164	10	0.14	1.19	0.13	0.01	0.02	2.50	5.4%	47.7%	5.2%	0.4%	0.9%	100.0%	0.10	0.73	0.08	0.01	0.02	1.52	60.9%	4.0%	29.0%	3.2%	0.3%	0.6%	60.9%
63			37	165	10	0.13	1.01	0.24	0.02	0.04	2.96	4.4%	34.2%	8.2%	0.6%	1.2%	100.0%	0.09	0.58	0.15	0.01	0.02	1.59	53.7%	3.1%	19.6%	5.1%	0.4%	0.8%	53.7%

3.1.2 Ant K – Patch Antenna

Table 5 & Table 6 & Table 7 show the PD simulation evaluation of Ant K patch antenna at 24GHz / 28GHz / 39GHz for the corresponding evaluation planes specified in Table 1.

Table 5. PD of Ant K – patch antenna (24GHz – n258)

[Folder Open Status]

- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							**100.0%**	**1.6%**	**41.3%**	**3.7%**	**70.3%**	**100.0%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**70.9%**	**53.0%**	**1.6%**	**24.3%**	**3.0%**	**37.9%**	**70.9%**
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.15**	0.00	0.01	0.00	0.10	0.10		100.0%	0.7%	8.7%	0.7%	64.7%	69.3%	**0.07**	0.00	0.01	0.00	0.04	0.05	46.7%	46.7%	0.7%	5.3%	0.0%	23.3%	30.0%
65			3		1	**0.15**	0.00	0.02	0.00	0.08	0.07		100.0%	0.6%	11.0%	2.6%	50.6%	46.1%	**0.05**	0.00	0.01	0.00	0.03	0.04	33.8%	33.8%	0.0%	7.1%	1.9%	16.9%	25.3%
66			5		1	**0.13**	0.00	0.03	0.00	0.07	0.08		100.0%	1.6%	23.3%	0.8%	55.0%	61.2%	**0.05**	0.00	0.02	0.00	0.03	0.04	38.0%	38.0%	1.6%	14.0%	0.8%	20.9%	29.5%
67			7		1	**0.13**	0.00	0.01	0.00	0.08	0.08		100.0%	0.0%	9.5%	0.8%	60.3%	64.3%	0.05	0.00	0.01	0.00	0.03	**0.06**	46.0%	41.3%	0.0%	5.6%	0.0%	24.6%	46.0%
68			9		1	**0.10**	0.00	0.02	0.00	0.05	0.08		100.0%	0.0%	19.0%	1.0%	46.0%	75.0%	**0.04**	0.00	0.01	0.00	0.02	0.03	40.0%	40.0%	0.0%	9.0%	1.0%	18.0%	30.0%
69			14		2	**0.24**	0.00	0.03	0.01	0.14	0.18		100.0%	0.4%	13.7%	2.5%	56.0%	74.3%	**0.12**	0.00	0.02	0.01	0.06	0.08	47.7%	47.7%	0.4%	10.0%	2.1%	25.7%	34.0%
70			15		2	**0.30**	0.00	0.01	0.00	0.18	0.23		100.0%	0.7%	4.3%	1.0%	59.3%	75.8%	**0.15**	0.00	0.01	0.00	0.08	0.12	51.0%	51.0%	0.3%	3.0%	0.7%	27.5%	40.7%
71			16		2	**0.27**	0.00	0.05	0.00	0.15	0.16		100.0%	0.4%	17.5%	0.7%	55.2%	60.8%	**0.12**	0.00	0.03	0.00	0.07	0.08	44.0%	44.0%	0.4%	10.4%	0.7%	24.3%	31.0%
72			17		2	**0.32**	0.00	0.04	0.01	0.20	0.20		100.0%	0.3%	12.7%	1.6%	62.7%	62.1%	**0.14**	0.00	0.03	0.00	0.08	0.09	44.7%	44.7%	0.3%	8.4%	1.2%	24.5%	26.7%
73			21		2	**0.28**	0.00	0.02	0.00	0.16	0.22		100.0%	0.7%	7.1%	1.4%	58.2%	78.6%	**0.14**	0.00	0.01	0.00	0.08	0.11	51.1%	51.1%	0.4%	5.0%	1.1%	27.9%	38.2%
74			22		2	**0.31**	0.00	0.01	0.00	0.19	0.23		100.0%	0.6%	3.8%	0.6%	59.1%	72.8%	**0.16**	0.00	0.01	0.00	0.09	0.13	50.2%	50.2%	0.3%	2.9%	0.6%	27.2%	40.6%
75			23		2	**0.35**	0.00	0.04	0.00	0.22	0.20		100.0%	0.3%	10.3%	1.1%	63.5%	56.0%	**0.16**	0.00	0.03	0.00	0.09	0.10	46.0%	46.0%	0.3%	7.2%	0.9%	25.3%	28.2%
76			29		5	**0.75**	0.00	0.07	0.01	0.43	0.39		100.0%	0.5%	8.9%	1.3%	57.3%	51.9%	**0.36**	0.00	0.04	0.01	0.18	0.19	48.0%	48.0%	0.5%	4.8%	1.1%	24.4%	24.9%
77			30		5	**0.66**	0.00	0.04	0.00	0.40	0.51		100.0%	0.5%	6.1%	0.5%	61.1%	76.4%	**0.34**	0.00	0.03	0.00	0.20	0.33	51.6%	51.6%	0.5%	3.8%	0.5%	29.8%	49.3%
78			31		5	**0.69**	0.01	0.03	0.00	0.46	0.47		100.0%	0.9%	4.8%	0.4%	66.7%	68.7%	**0.34**	0.01	0.02	0.00	0.23	0.31	49.9%	49.9%	0.9%	2.8%	0.4%	33.8%	45.4%
79			32		5	**0.90**	0.01	0.14	0.00	0.49	0.56		100.0%	0.6%	16.0%	0.2%	55.0%	62.9%	**0.44**	0.01	0.08	0.00	0.25	0.31	49.0%	49.0%	0.6%	9.3%	0.1%	27.5%	34.6%
80			33		5	**0.94**	0.00	0.21	0.01	0.45	0.51		100.0%	0.3%	22.9%	0.6%	48.6%	54.8%	**0.40**	0.00	0.14	0.01	0.20	0.22	43.0%	43.0%	0.3%	14.7%	0.5%	21.6%	23.2%
81			38		5	**0.80**	0.00	0.05	0.01	0.44	0.46		100.0%	0.4%	5.7%	0.6%	54.9%	57.2%	**0.40**	0.00	0.03	0.01	0.21	0.29	49.8%	49.8%	0.4%	3.4%	0.6%	26.7%	36.2%
82			39		5	**0.54**	0.01	0.03	0.00	0.38	0.48		100.0%	1.1%	6.3%	0.7%	70.3%	89.2%	0.29	0.01	0.02	0.00	0.20	**0.32**	58.6%	53.0%	0.9%	3.7%	0.7%	37.9%	58.6%
83			40		5	**0.77**	0.01	0.06	0.00	0.46	0.49		100.0%	0.8%	8.1%	0.1%	59.9%	64.1%	**0.37**	0.01	0.04	0.00	0.23	0.31	48.1%	48.1%	0.7%	4.9%	0.1%	29.3%	39.8%
84			41		5	**0.97**	0.00	0.19	0.00	0.49	0.57		100.0%	0.4%	19.9%	0.2%	50.5%	58.4%	**0.44**	0.00	0.12	0.00	0.23	0.27	45.5%	45.5%	0.3%	12.5%	0.2%	23.6%	28.1%
85			129		1	0.26	0.00	0.03	0.00	0.04	**0.28**		94.2%	0.4%	10.5%	0.4%	13.4%	100.0%	0.09	0.00	0.02	0.00	0.01	**0.14**	50.4%	33.0%	0.4%	7.6%	0.4%	4.0%	50.4%
86			131		1	0.23	0.00	0.03	0.00	0.02	**0.30**		76.4%	0.3%	11.0%	0.3%	7.6%	100.0%	0.07	0.00	0.02	0.00	0.01	**0.15**	48.2%	23.3%	0.3%	6.6%	0.3%	2.7%	48.2%
87			133		1	0.21	0.00	0.03	0.00	0.02	**0.27**		76.2%	0.4%	10.8%	0.4%	5.9%	100.0%	0.07	0.00	0.02	0.00	0.01	**0.15**	55.0%	26.4%	0.4%	6.3%	0.4%	2.2%	55.0%
88			135		1	0.23	0.00	0.04	0.00	0.02	**0.28**		81.7%	0.0%	13.7%	0.7%	7.6%	100.0%	0.09	0.00	0.02	0.00	0.01	**0.15**	52.5%	31.3%	0.0%	7.6%	0.7%	2.2%	52.5%
89			137		1	**0.21**	0.00	0.04	0.00	0.04	0.20		100.0%	0.5%	19.9%	1.9%	18.0%	95.6%	0.06	0.00	0.02	0.00	0.02	**0.10**	48.5%	30.6%	0.5%	8.7%	1.5%	7.8%	48.5%
90			142		2	0.52	0.00	0.04	0.01	0.06	**0.55**		94.2%	0.2%	6.6%	1.6%	10.6%	100.0%	0.17	0.00	0.02	0.01	0.03	**0.30**	54.2%	31.0%	0.2%	2.7%	1.5%	5.1%	54.2%
91			143		2	0.62	0.00	0.07	0.00	0.04	**0.80**		77.7%	0.1%	8.3%	0.1%	4.5%	100.0%	0.24	0.00	0.04	0.00	0.01	**0.46**	57.6%	29.6%	0.1%	5.3%	0.1%	1.6%	57.6%
92			144		2	0.54	0.00	0.09	0.00	0.06	**0.64**		84.2%	0.3%	14.4%	0.2%	9.7%	100.0%	0.22	0.00	0.06	0.00	0.02	**0.33**	51.8%	35.1%	0.3%	10.0%	0.2%	3.3%	51.8%
93			145		2	0.29	0.00	0.13	0.00	0.06	**0.34**		83.7%	0.3%	38.8%	1.2%	16.6%	100.0%	0.11	0.00	0.07	0.00	0.02	**0.15**	44.9%	31.5%	0.3%	20.7%	0.9%	6.1%	44.9%
94			149		2	0.55	0.00	0.02	0.00	0.07	**0.64**		85.7%	0.2%	3.6%	0.6%	11.5%	100.0%	0.21	0.00	0.02	0.00	0.03	**0.39**	61.8%	33.2%	0.2%	2.4%	0.6%	4.4%	61.8%
95			150		2	0.56	0.00	0.08	0.00	0.04	**0.74**		75.5%	0.3%	10.8%	0.1%	5.7%	100.0%	0.22	0.00	0.05	0.00	0.01	**0.41**	55.4%	30.2%	0.3%	6.3%	0.1%	1.8%	55.4%
96			151		2	0.51	0.00	0.10	0.00	0.06	**0.59**		85.7%	0.3%	17.0%	0.2%	10.0%	100.0%	0.22	0.00	0.07	0.00	0.02	**0.31**	51.8%	37.7%	0.3%	11.9%	0.2%	3.6%	51.8%
97			157		5	1.57	0.00	0.07	0.01	0.17	**1.66**		94.2%	0.2%	4.1%	0.7%	10.5%	100.0%	0.66	0.00	0.04	0.01	0.10	**1.06**	63.8%	39.9%	0.2%	2.2%	0.5%	6.0%	63.8%
98			158		5	1.64	0.00	0.02	0.01	0.13	**1.95**		84.1%	0.2%	1.1%	0.5%	6.5%	100.0%	0.82	0.00	0.01	0.01	0.06	**1.36**	69.6%	42.0%	0.2%	0.7%	0.4%	3.1%	69.6%
99			159		5	1.43	0.00	0.11	0.00	0.10	**1.84**		78.0%	0.2%	6.1%	0.1%	5.5%	100.0%	0.74	0.01	0.05	0.00	0.04	**1.19**	64.5%	40.4%	0.3%	2.8%	0.1%	2.2%	64.5%
100			160		5	1.48	0.00	0.47	0.00	0.21	**1.71**		86.5%	0.2%	27.6%	0.1%	12.1%	100.0%	0.81	0.00	0.30	0.00	0.08	**1.04**	60.7%	47.4%	0.2%	17.4%	0.1%	4.7%	60.7%
101			161		5	1.08	0.00	0.39	0.01	0.19	**1.12**		95.8%	0.2%	34.6%	0.4%	16.5%	100.0%	0.55	0.00	0.23	0.00	0.07	**0.57**	50.3%	48.8%	0.2%	20.4%	0.4%	6.4%	50.3%
102			166		5	1.73	0.00	0.05	0.00	0.18	**1.96**		88.5%	0.2%	2.5%	0.2%	9.2%	100.0%	0.82	0.00	0.03	0.00	0.10	**1.33**	67.9%	41.9%	0.2%	1.5%	0.2%	5.2%	67.9%
103			167		5	1.51	0.00	0.05	0.01	0.09	**1.85**		81.6%	0.2%	2.6%	0.5%	4.8%	100.0%	0.78	0.00	0.02	0.01	0.04	**1.29**	69.9%	42.0%	0.2%	1.1%	0.4%	2.2%	69.9%
104			168		5	1.35	0.01	0.28	0.01	0.15	**1.66**		81.1%	0.3%	16.6%	0.3%	9.2%	100.0%	0.71	0.01	0.17	0.00	0.06	**1.04**	62.8%	42.7%	0.3%	9.9%	0.2%	3.5%	62.8%
105			169		5	1.27	0.00	0.44	0.00	0.20	**1.39**		91.6%	0.1%	31.7%	0.3%	14.5%	100.0%	0.67	0.00	0.27	0.00	0.08	**0.74**	53.5%	47.9%	0.1%	19.1%	0.2%	5.8%	53.5%
106			1	129	2	**0.57**	0.00	0.05	0.00	0.21	0.48		100.0%	0.4%	8.2%	0.5%	36.8%	84.2%	0.23	0.00	0.03	0.00	0.07	**0.24**	41.9%	40.4%	0.4%	6.0%	0.4%	12.6%	41.9%
107			3	131	2	**0.48**	0.00	0.07	0.01	0.14	0.47		100.0%	0.4%	14.4%	1.7%	29.0%	97.3%	0.15	0.00	0.04	0.01	0.05	**0.25**	52.7%	30.2%	0.4%	8.8%	1.5%	11.0%	52.7%
108			5	133	2	0.39	0.00	0.09	0.00	0.12	**0.45**		86.8%	0.9%	19.2%	0.7%	26.0%	100.0%	0.14	0.00	0.05	0.00	0.04	**0.26**	57.0%	31.3%	0.9%	10.2%	0.7%	8.6%	57.0%
109			7	135	2	0.41	0.00	0.07	0.00	0.14	**0.53**		76.2%	0.2%	12.4%	0.7%	25.5%	100.0%	0.16	0.00	0.04	0.00	0.06	**0.32**	59.4%	29.0%	0.2%	6.9%	0.6%	10.3%	59.4%
110			9	137	2	**0.44**	0.00	0.10	0.01	0.14	0.33		100.0%	0.5%	22.7%	1.8%	32.8%	75.2%	**0.16**	0.00	0.05	0.01	0.06	0.15	37.6%	37.6%	0.2%	10.8%	1.4%	12.8%	34.4%
111			14	142	4	**0.76**	0.00	0.11	0.03	0.24	0.74		100.0%	0.5%	14.8%	3.7%	31.8%	97.8%	0.24	0.00	0.07	0.02	0.13	**0.39**	50.9%	32.0%	0.5%	8.8%	3.0%	17.5%	50.9%
112			15	143	4	1.04	0.00	0.08	0.01	0.32	**1.28**		80.8%	0.2%	6.5%	0.4%	24.8%	100.0%	0.37	0.00	0.05	0.00	0.15	**0.75**	58.4%	29.1%	0.2%	4.1%	0.3%	11.5%	58.4%
113			16	144	4	**0.81**	0.00	0.22	0.00	0.25	0.78		100.0%	0.5%	26.9%	0.5%	30.7%	95.8%	0.36	0.00	0.15	0.00	0.12	**0.43**	52.7%	44.4%	0.4%	18.1%	0.4%	14.2%	52.7%
114			17	145	4	0.51	0.00	0.28	0.02	0.26	**0.68**		73.9%	0.3%	41.3%	2.2%	38.4%	100.0%	0.23	0.00	0.17	0.01	0.12	**0.31**	44.9%	34.0%	0.3%	24.3%	1.8%	16.8%	44.9%
115			21	149	4	0.99	0.01	0.05	0.02	0.40	**1.08**		91.9%	0.5%	5.0%	1.5%	36.6%	100.0%	0.42	0.00	0.03	0.01	0.18	**0.60**	55.5%	38.8%	0.4%	3.1%	1.1%	16.5%	55.5%
116			22	150	4	0.84	0.00	0.12	0.01	0.21	**0.97**		86.6%	0.4%	12.1%	0.7%	21.8%	100.0%	0.31	0.00	0.07	0.01	0.11	**0.57**	58.8%	32.4%	0.3%	7.1%	0.5%	11.1%	58.8%
117			23	151	4	**1.19**	0.01	0.18	0.01	0.45	1.02		100.0%	0.4%	14.9%	0.5%	37.4%	85.6%	0.54	0.01	0.13	0.01	0.15	**0.56**	46.9%	45.0%	0.4%	10.7%	0.4%	12.8%	46.9%
118			29	157	10	2.56	0.01	0.23	0.04	1.04	**2.63**		97.4%	0.4%	8.8%	1.5%	39.4%	100.0%	1.00	0.01	0.10	0.03	0.53	**1.53**	58.1%	37.9%	0.3%	3.7%	1.2%	20.2%	58.1%
119			30	158	10	2.26	0.01	0.07	0.02	0.85	**3.17**		71.3%	0.3%	2.1%	0.6%	26.9%	100.0%	1.03	0.01	0.04	0.02	0.42	**2.21**	69.8%	32.6%	0.3%	1.3%	0.5%	13.3%	69.8%
120			31	159	10	2.23	0.01	0.13	0.01	0.78	**3.03**		73.5%	0.5%	4.3%	0.2%	25.8%	100.0%	1.11	0.01	0.06	0.01	0.38	**2.08**	68.7%	36.6%	0.5%	2.0%	0.2%	12.5%	68.7%
121			32	160	10	**3.52**	0.01	0.82	0.01	1.19	3.16		100.0%	0.4%	23.2%	0.1%	33.7%	89.8%	1.83	0.01	0.46	0.00	0.56	**2.01**	57.0%	52.0%	0.4%	13.2%	0.1%	16.0%	57.0%
122			33	161	10	**3.13**	0.01	0.89	0.02	1.07	2.62		100.0%	0.3%	28.3%	0.6%	34.3%	83.9%	**1.52**	0.01	0.55	0.02	0.48	1.30	48.6%	48.6%	0.3%	17.5%	0.5%	15.3%	41.5%
123			38	166	10	2.68	0.01	0.14	0.01	1.05	**3.13**		85.9%	0.4%	4.5%	0.4%	33.5%	100.0%	1.01	0.01	0.08	0.01	0.56	**2.08**	66.7%	32.4%	0.3%	2.7%	0.4%	18.0%	66.7%
124			39	167	10	2.14	0.02	0.09	0.02	0.70	**3.04**		70.6%	0.5%	3.1%	0.8%	22.9%	100.0%	0.99	0.01	0.06	0.02	0.36	**2.15**	70.9%	32.7%	0.4%	1.8%	0.6%	11.9%	70.9%
125			40	168	10	2.70	0.02	0.49	0.01	0.96	**2.87**		94.1%	0.6%	16.9%	0.2%	33.5%	100.0%	1.45	0.02	0.23	0.01	0.45	**1.95**	67.7%	50.5%	0.6%	8.0%	0.2%	15.7%	67.7%
126			41	169	10	**3.47**	0.01	0.90	0.01	1.19	2.95		100.0%	0.3%	26.0%	0.3%	34.2%	85.2%	**1.72**	0.01	0.54	0.01	0.54	1.60	49.5%	49.5%	0.3%	15.5%	0.2%	15.7%	46.2%

- K–patch Mid CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	0.7%	38.3%	2.0%	69.5%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						73.3%	54.6%	0.6%	24.5%	2.0%	34.7%	73.3%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.18**	0.00	0.01	0.00	0.11	0.10		100.0%	0.0%	7.8%	0.0%	61.7%	57.8%	**0.09**	0.00	0.01	0.00	0.04	0.05	47.2%	47.2%	0.0%	5.0%	0.0%	22.2%	25.0%
65			3		1	**0.21**	0.00	0.02	0.00	0.12	0.08		100.0%	0.5%	7.7%	0.5%	58.5%	37.7%	**0.09**	0.00	0.01	0.00	0.04	0.05	42.0%	42.0%	0.5%	5.8%	0.5%	19.3%	24.2%
66			5		1	**0.20**	0.00	0.03	0.00	0.12	0.07		100.0%	0.5%	15.4%	0.0%	58.2%	35.8%	**0.08**	0.00	0.02	0.00	0.04	0.04	37.8%	37.8%	0.5%	10.0%	0.0%	20.9%	19.9%
67			7		1	**0.17**	0.00	0.02	0.00	0.11	0.09		100.0%	0.6%	11.5%	0.6%	62.6%	52.3%	**0.07**	0.00	0.01	0.00	0.04	0.07	42.0%	42.0%	0.6%	6.3%	0.6%	25.3%	37.9%
68			9		1	**0.14**	0.00	0.03	0.00	0.06	0.10		100.0%	0.7%	20.3%	0.7%	44.1%	66.4%	**0.06**	0.00	0.01	0.00	0.02	0.04	38.5%	38.5%	0.0%	9.1%	0.7%	13.3%	24.5%
69			14		2	**0.30**	0.00	0.03	0.00	0.18	0.18		100.0%	0.3%	9.3%	0.3%	59.0%	58.3%	**0.16**	0.00	0.02	0.00	0.08	0.08	51.7%	51.7%	0.3%	7.3%	0.3%	25.0%	26.7%
70			15		2	**0.42**	0.00	0.01	0.00	0.27	0.21		100.0%	0.2%	3.1%	0.2%	64.4%	50.2%	**0.23**	0.00	0.01	0.00	0.12	0.13	54.6%	54.6%	0.2%	2.2%	0.2%	27.9%	31.0%
71			16		2	**0.36**	0.00	0.06	0.00	0.21	0.20		100.0%	0.6%	16.7%	0.6%	58.1%	56.7%	**0.15**	0.00	0.04	0.00	0.08	0.10	41.7%	41.7%	0.3%	10.0%	0.6%	23.1%	28.6%
72			17		2	**0.39**	0.00	0.04	0.00	0.25	0.21		100.0%	0.3%	11.1%	0.3%	64.2%	54.4%	**0.18**	0.00	0.03	0.00	0.10	0.10	47.4%	47.4%	0.3%	7.7%	0.3%	25.8%	25.8%
73			21		2	**0.37**	0.00	0.02	0.00	0.24	0.20		100.0%	0.3%	4.6%	0.3%	63.4%	54.3%	**0.20**	0.00	0.01	0.00	0.10	0.11	54.6%	54.6%	0.3%	3.5%	0.3%	27.4%	29.8%
74			22		2	**0.43**	0.00	0.01	0.00	0.28	0.21		100.0%	0.2%	2.8%	0.2%	64.4%	48.6%	**0.23**	0.00	0.01	0.00	0.12	0.13	54.2%	54.2%	0.2%	2.1%	0.2%	27.9%	30.9%
75			23		2	**0.43**	0.00	0.04	0.00	0.28	0.21		100.0%	0.2%	9.9%	0.2%	64.1%	48.4%	**0.21**	0.00	0.03	0.00	0.11	0.11	48.2%	48.2%	0.2%	6.9%	0.2%	26.0%	25.6%
76			29		5	**0.95**	0.00	0.11	0.01	0.55	0.41		100.0%	0.3%	11.9%	0.7%	58.2%	43.5%	**0.47**	0.00	0.06	0.01	0.23	0.20	50.2%	50.2%	0.3%	6.3%	0.6%	24.6%	21.2%
77			30		5	**1.01**	0.01	0.04	0.00	0.66	0.54		100.0%	0.5%	3.9%	0.3%	65.5%	53.5%	**0.54**	0.00	0.02	0.00	0.31	0.40	53.7%	53.7%	0.4%	2.3%	0.2%	30.7%	39.2%
78			31		5	**0.96**	0.01	0.05	0.00	0.64	0.51		100.0%	0.7%	5.4%	0.3%	66.4%	53.2%	**0.50**	0.01	0.03	0.00	0.32	0.37	52.3%	52.3%	0.6%	3.3%	0.2%	33.5%	38.2%
79			32		5	**1.25**	0.01	0.17	0.00	0.72	0.60		100.0%	0.4%	13.9%	0.2%	57.5%	48.0%	**0.61**	0.01	0.10	0.00	0.35	0.34	48.8%	48.8%	0.4%	7.7%	0.2%	28.4%	27.2%
80			33		5	**1.19**	0.00	0.25	0.01	0.68	0.55		100.0%	0.3%	21.1%	0.4%	56.9%	46.0%	**0.52**	0.00	0.16	0.00	0.30	0.26	43.9%	43.9%	0.2%	13.4%	0.3%	25.6%	21.5%
81			38		5	**1.10**	0.00	0.07	0.00	0.65	0.53		100.0%	0.4%	6.0%	0.4%	58.9%	48.3%	**0.58**	0.00	0.04	0.00	0.29	0.35	52.2%	52.2%	0.3%	3.5%	0.4%	26.6%	31.7%
82			39		5	**0.92**	0.00	0.04	0.00	0.64	0.49		100.0%	0.4%	4.3%	0.2%	69.5%	53.7%	**0.50**	0.00	0.02	0.00	0.32	0.36	54.3%	54.3%	0.4%	2.6%	0.2%	34.7%	39.6%
83			40		5	**1.08**	0.01	0.08	0.00	0.66	0.51		100.0%	0.5%	7.8%	0.2%	61.3%	47.1%	**0.54**	0.01	0.05	0.00	0.32	0.34	50.2%	50.2%	0.5%	4.2%	0.2%	29.9%	31.0%
84			41		5	**1.28**	0.00	0.23	0.00	0.72	0.61		100.0%	0.2%	17.7%	0.3%	55.9%	47.4%	**0.59**	0.00	0.14	0.00	0.34	0.30	45.9%	45.9%	0.2%	11.0%	0.2%	26.4%	23.8%
85			129		1	0.22	0.00	0.03	0.00	0.03	**0.25**		86.8%	0.4%	10.8%	0.8%	12.8%	100.0%	0.08	0.00	0.02	0.00	0.01	**0.13**	50.4%	30.4%	0.0%	8.4%	0.8%	4.4%	50.4%
86			131		1	0.23	0.00	0.03	0.00	0.03	**0.30**		75.1%	0.0%	10.0%	1.0%	9.0%	100.0%	0.07	0.00	0.02	0.00	0.01	**0.14**	46.8%	23.6%	0.0%	6.6%	0.7%	2.7%	46.8%
87			133		1	0.20	0.00	0.03	0.00	0.02	**0.27**		76.0%	0.4%	10.1%	0.4%	8.2%	100.0%	0.08	0.00	0.02	0.00	0.01	**0.15**	54.7%	28.8%	0.4%	5.6%	0.4%	3.0%	54.7%
88			135		1	0.23	0.00	0.04	0.00	0.03	**0.27**		83.7%	0.4%	13.0%	0.4%	10.7%	100.0%	0.09	0.00	0.02	0.00	0.01	**0.14**	52.2%	31.5%	0.4%	7.4%	0.4%	3.7%	52.2%
89			137		1	0.20	0.00	0.04	0.00	0.03	**0.20**		96.6%	0.5%	21.2%	2.0%	16.3%	100.0%	0.06	0.00	0.02	0.00	0.01	**0.10**	50.7%	29.6%	0.5%	9.4%	2.0%	6.4%	50.7%
90			142		2	0.49	0.00	0.04	0.01	0.05	**0.54**		91.1%	0.4%	7.8%	1.7%	9.8%	100.0%	0.16	0.00	0.02	0.01	0.02	**0.30**	56.0%	30.1%	0.4%	3.3%	1.3%	4.3%	56.0%
91			143		2	0.63	0.00	0.06	0.00	0.05	**0.80**		78.6%	0.1%	7.1%	0.1%	6.6%	100.0%	0.24	0.00	0.04	0.00	0.02	**0.46**	57.5%	30.2%	0.1%	4.6%	0.1%	2.2%	57.5%
92			144		2	0.52	0.00	0.08	0.00	0.07	**0.63**		82.9%	0.2%	12.3%	0.3%	10.3%	100.0%	0.22	0.00	0.06	0.00	0.02	**0.34**	53.6%	34.3%	0.2%	9.2%	0.2%	3.6%	53.6%
93			145		2	0.33	0.00	0.12	0.00	0.07	**0.38**		87.8%	0.3%	31.7%	1.1%	17.5%	100.0%	0.14	0.00	0.07	0.00	0.02	**0.17**	45.8%	36.2%	0.3%	18.5%	1.1%	6.3%	45.8%
94			149		2	0.52	0.00	0.03	0.01	0.06	**0.62**		82.8%	0.2%	4.2%	1.0%	9.5%	100.0%	0.19	0.00	0.02	0.01	0.02	**0.37**	60.0%	30.7%	0.2%	2.9%	0.8%	3.7%	60.0%
95			150		2	0.58	0.00	0.08	0.00	0.05	**0.77**		75.7%	0.1%	10.3%	0.0%	6.4%	100.0%	0.23	0.00	0.05	0.00	0.02	**0.44**	57.5%	29.9%	0.1%	5.9%	0.0%	2.1%	57.5%
96			151		2	0.50	0.00	0.09	0.00	0.06	**0.58**		86.0%	0.2%	15.3%	0.5%	11.0%	100.0%	0.22	0.00	0.07	0.00	0.02	**0.31**	52.6%	37.2%	0.2%	11.2%	0.3%	4.0%	52.6%
97			157		5	1.51	0.00	0.07	0.01	0.15	**1.74**		87.1%	0.2%	4.0%	0.6%	8.5%	100.0%	0.67	0.00	0.03	0.01	0.09	**1.08**	62.3%	38.6%	0.2%	1.8%	0.6%	4.9%	62.3%
98			158		5	1.55	0.00	0.02	0.01	0.12	**1.90**		81.6%	0.2%	1.1%	0.6%	6.5%	100.0%	0.76	0.00	0.01	0.01	0.06	**1.35**	70.7%	40.0%	0.1%	0.7%	0.5%	2.9%	70.7%
99			159		5	1.44	0.00	0.10	0.00	0.10	**1.81**		79.2%	0.2%	5.7%	0.2%	5.7%	100.0%	0.76	0.00	0.04	0.00	0.05	**1.21**	66.8%	41.7%	0.2%	2.2%	0.2%	2.6%	66.8%
100			160		5	1.40	0.00	0.41	0.00	0.20	**1.64**		85.3%	0.2%	25.0%	0.1%	12.2%	100.0%	0.77	0.00	0.26	0.00	0.09	**1.00**	61.0%	46.6%	0.2%	16.1%	0.1%	5.7%	61.0%
101			161		5	1.14	0.00	0.44	0.01	0.21	**1.15**		99.5%	0.3%	38.0%	0.8%	18.5%	100.0%	**0.61**	0.00	0.27	0.01	0.08	0.60	53.2%	53.2%	0.2%	23.4%	0.6%	7.2%	52.5%
102			166		5	1.60	0.00	0.04	0.00	0.14	**1.96**		81.9%	0.2%	2.1%	0.2%	7.3%	100.0%	0.77	0.00	0.02	0.00	0.08	**1.31**	66.9%	39.3%	0.2%	1.0%	0.1%	3.9%	66.9%
103			167		5	1.52	0.00	0.03	0.01	0.10	**1.80**		84.2%	0.2%	1.7%	0.3%	5.7%	100.0%	0.79	0.00	0.02	0.00	0.05	**1.29**	71.4%	44.1%	0.2%	1.1%	0.2%	2.7%	71.4%
104			168		5	1.34	0.00	0.25	0.00	0.15	**1.69**		79.4%	0.2%	14.9%	0.2%	9.0%	100.0%	0.71	0.00	0.14	0.00	0.06	**1.09**	64.6%	41.9%	0.2%	8.2%	0.2%	3.8%	64.6%
105			169		5	1.28	0.00	0.45	0.01	0.22	**1.36**		94.0%	0.2%	33.4%	0.5%	16.4%	100.0%	0.69	0.00	0.29	0.01	0.09	**0.74**	54.3%	50.5%	0.1%	21.0%	0.4%	6.8%	54.3%
106			1	129	2	**0.57**	0.00	0.05	0.00	0.21	0.42		100.0%	0.2%	9.5%	0.5%	36.0%	73.0%	**0.24**	0.00	0.04	0.00	0.07	0.20	42.5%	42.5%	0.2%	7.0%	0.5%	11.9%	35.4%
107			3	131	2	**0.55**	0.00	0.07	0.01	0.21	0.45		100.0%	0.4%	12.5%	0.9%	37.4%	81.5%	0.20	0.00	0.05	0.00	0.07	**0.25**	45.9%	36.7%	0.4%	8.3%	0.7%	12.0%	45.9%
108			5	133	2	**0.48**	0.00	0.09	0.00	0.19	0.43		100.0%	0.6%	19.0%	0.6%	39.5%	90.2%	0.17	0.00	0.05	0.00	0.06	**0.25**	52.9%	34.7%	0.6%	10.3%	0.6%	13.4%	52.9%
109			7	135	2	0.47	0.00	0.07	0.00	0.18	**0.52**		90.8%	0.4%	13.4%	0.8%	34.3%	100.0%	0.18	0.00	0.04	0.00	0.08	**0.31**	58.8%	34.9%	0.4%	7.9%	0.6%	14.4%	58.8%
110			9	137	2	**0.48**	0.00	0.11	0.01	0.16	0.36		100.0%	0.4%	22.0%	1.9%	33.0%	74.7%	**0.19**	0.00	0.05	0.01	0.06	0.17	39.2%	39.2%	0.2%	10.4%	1.5%	11.8%	35.5%
111			14	142	4	**0.75**	0.00	0.11	0.02	0.25	0.73		100.0%	0.5%	14.5%	2.0%	33.0%	98.4%	0.25	0.00	0.07	0.01	0.12	**0.40**	53.4%	33.9%	0.5%	8.8%	1.6%	16.6%	53.4%
112			15	143	4	1.17	0.00	0.08	0.00	0.47	**1.27**		91.5%	0.2%	6.0%	0.1%	36.8%	100.0%	0.50	0.00	0.05	0.00	0.20	**0.77**	60.5%	39.0%	0.2%	3.8%	0.1%	15.6%	60.5%
113			16	144	4	**0.84**	0.00	0.21	0.01	0.33	0.80		100.0%	0.4%	24.7%	1.0%	39.1%	95.1%	0.37	0.00	0.15	0.01	0.14	**0.45**	53.5%	44.0%	0.4%	17.3%	0.7%	17.2%	53.5%
114			17	145	4	0.63	0.00	0.26	0.01	0.31	**0.68**		93.5%	0.4%	38.3%	1.3%	45.3%	100.0%	0.26	0.00	0.17	0.01	0.14	**0.32**	47.1%	38.1%	0.4%	24.5%	1.0%	21.1%	47.1%
115			21	149	4	**1.07**	0.00	0.05	0.01	0.46	0.99		100.0%	0.3%	4.8%	0.9%	42.8%	92.1%	0.47	0.00	0.04	0.01	0.19	**0.56**	52.1%	43.9%	0.3%	3.4%	0.7%	17.6%	52.1%
116			22	150	4	0.89	0.00	0.12	0.00	0.36	**1.01**		87.6%	0.3%	11.5%	0.1%	35.5%	100.0%	0.32	0.00	0.07	0.00	0.16	**0.62**	61.0%	32.0%	0.3%	6.8%	0.1%	16.2%	61.0%
117			23	151	4	**1.31**	0.00	0.17	0.01	0.54	0.96		100.0%	0.3%	13.2%	0.5%	40.8%	73.2%	**0.62**	0.00	0.12	0.01	0.19	0.53	47.2%	47.2%	0.3%	9.4%	0.4%	14.8%	40.6%
118			29	157	10	**2.77**	0.01	0.30	0.02	1.14	2.67		100.0%	0.4%	10.7%	0.8%	41.1%	96.2%	1.03	0.01	0.15	0.02	0.55	**1.58**	56.9%	37.3%	0.4%	5.2%	0.7%	19.9%	56.9%
119			30	158	10	2.54	0.01	0.06	0.02	1.15	**3.24**		78.4%	0.4%	1.9%	0.7%	35.5%	100.0%	1.16	0.01	0.04	0.02	0.54	**2.34**	72.0%	35.9%	0.3%	1.2%	0.6%	16.6%	72.0%
120			31	159	10	2.55	0.02	0.13	0.01	1.02	**3.14**		81.3%	0.5%	4.2%	0.2%	32.4%	100.0%	1.31	0.01	0.07	0.01	0.49	**2.22**	70.7%	41.8%	0.4%	2.1%	0.2%	15.5%	70.7%
121			32	160	10	**3.82**	0.01	0.83	0.01	1.52	3.15		100.0%	0.3%	21.8%	0.2%	39.6%	82.4%	2.00	0.01	0.48	0.01	0.76	**2.08**	54.3%	52.3%	0.3%	12.5%	0.2%	19.7%	54.3%
122			33	161	10	**3.53**	0.01	0.97	0.03	1.44	2.64		100.0%	0.3%	27.5%	0.7%	40.7%	74.8%	**1.73**	0.01	0.62	0.02	0.65	1.43	48.9%	48.9%	0.3%	17.5%	0.6%	18.3%	40.5%
123			38	166	10	2.80	0.01	0.14	0.01	1.22	**3.26**		85.8%	0.3%	4.4%	0.4%	37.4%	100.0%	1.12	0.01	0.08	0.01	0.60	**2.22**	68.2%	34.4%	0.3%	2.4%	0.3%	18.4%	68.2%
124			39	167	10	2.51	0.01	0.08	0.01	1.06	**3.06**		82.2%	0.3%	2.7%	0.3%	34.7%	100.0%	1.21	0.01	0.06	0.01	0.52	**2.24**	73.3%	39.7%	0.3%	2.0%	0.3%	16.8%	73.3%
125			40	168	10	**3.04**	0.01	0.53	0.01	1.28	3.01		100.0%	0.4%	17.4%	0.3%	42.0%	99.0%	1.64	0.01	0.24	0.01	0.60	**2.10**	69.1%	54.1%	0.4%	7.9%	0.2%	19.7%	69.1%
126			41	169	10	**3.88**	0.01	0.93	0.02	1.55	2.93		100.0%	0.2%	24.1%	0.5%	39.9%	75.4%	**1.94**	0.01	0.58	0.02	0.73	1.69	50.1%	50.1%	0.2%	14.8%	0.4%	18.7%	43.5%

- K–patch High CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	0.7%	34.9%	1.6%	72.3%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						75.5%	57.3%	0.7%	20.9%	1.4%	35.4%	75.5%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.24**	0.00	0.01	0.00	0.14	0.10		100.0%	0.0%	5.7%	0.0%	58.2%	40.6%	**0.12**	0.00	0.01	0.00	0.05	0.04	48.0%	48.0%	0.0%	3.7%	0.0%	20.1%	16.4%
65			3		1	**0.25**	0.00	0.01	0.00	0.15	0.09		100.0%	0.4%	5.2%	0.4%	60.0%	34.4%	**0.10**	0.00	0.01	0.00	0.05	0.05	39.6%	39.6%	0.4%	3.6%	0.4%	18.4%	21.6%
66			5		1	**0.28**	0.00	0.03	0.00	0.16	0.08		100.0%	0.4%	10.6%	0.4%	57.6%	27.6%	**0.11**	0.00	0.02	0.00	0.06	0.05	39.2%	39.2%	0.4%	6.7%	0.4%	19.4%	18.4%
67			7		1	**0.20**	0.00	0.02	0.00	0.14	0.10		100.0%	0.5%	11.4%	0.5%	67.3%	50.0%	**0.09**	0.00	0.01	0.00	0.05	0.07	43.6%	43.6%	0.5%	5.4%	0.5%	26.2%	36.1%
68			9		1	**0.14**	0.00	0.03	0.00	0.06	0.11		100.0%	0.7%	23.4%	0.7%	44.7%	80.1%	0.05	0.00	0.02	0.00	0.02	**0.05**	35.5%	34.0%	0.7%	12.8%	0.7%	12.1%	35.5%
69			14		2	**0.38**	0.00	0.02	0.00	0.23	0.18		100.0%	0.3%	5.8%	0.3%	59.1%	48.0%	**0.19**	0.00	0.02	0.00	0.09	0.10	49.9%	49.9%	0.3%	4.2%	0.3%	24.7%	26.0%
70			15		2	**0.51**	0.00	0.02	0.00	0.33	0.22		100.0%	0.2%	3.0%	0.2%	65.0%	42.9%	**0.28**	0.00	0.01	0.00	0.14	0.14	55.5%	55.5%	0.2%	1.8%	0.2%	26.6%	26.6%
71			16		2	**0.38**	0.00	0.05	0.00	0.25	0.23		100.0%	0.5%	14.3%	0.3%	66.6%	61.8%	**0.16**	0.00	0.03	0.00	0.10	0.13	41.6%	41.6%	0.5%	8.5%	0.3%	25.7%	34.0%
72			17		2	**0.50**	0.00	0.05	0.00	0.32	0.19		100.0%	0.2%	9.2%	0.2%	63.3%	37.7%	**0.23**	0.00	0.03	0.00	0.12	0.10	46.3%	46.3%	0.2%	6.2%	0.2%	24.8%	19.0%
73			21		2	**0.46**	0.00	0.02	0.00	0.29	0.21		100.0%	0.2%	3.7%	0.2%	63.5%	46.5%	**0.25**	0.00	0.01	0.00	0.12	0.13	54.8%	54.8%	0.2%	2.4%	0.2%	26.0%	27.3%
74			22		2	**0.52**	0.00	0.02	0.00	0.34	0.22		100.0%	0.2%	2.9%	0.2%	65.1%	41.4%	**0.29**	0.00	0.01	0.00	0.14	0.14	55.3%	55.3%	0.2%	1.7%	0.2%	26.9%	26.0%
75			23		2	**0.55**	0.00	0.05	0.00	0.35	0.19		100.0%	0.2%	8.1%	0.2%	63.8%	35.1%	**0.26**	0.00	0.03	0.00	0.14	0.10	47.7%	47.7%	0.2%	5.4%	0.2%	25.3%	18.6%
76			29		5	**1.19**	0.00	0.13	0.01	0.68	0.50		100.0%	0.3%	11.3%	0.4%	57.2%	42.0%	**0.61**	0.00	0.07	0.00	0.28	0.28	51.1%	51.1%	0.3%	6.0%	0.3%	23.7%	23.2%
77			30		5	**1.26**	0.01	0.04	0.00	0.82	0.68		100.0%	0.4%	2.8%	0.2%	64.6%	54.0%	**0.69**	0.01	0.02	0.00	0.39	0.50	54.5%	54.5%	0.4%	1.7%	0.2%	30.7%	39.6%
78			31		5	**1.06**	0.01	0.05	0.00	0.77	0.52		100.0%	0.6%	4.3%	0.2%	72.3%	49.4%	**0.59**	0.01	0.03	0.00	0.38	0.40	56.0%	56.0%	0.5%	2.8%	0.2%	35.4%	37.8%
79			32		5	**1.49**	0.01	0.21	0.00	0.89	0.66		100.0%	0.3%	14.3%	0.1%	59.6%	44.5%	**0.75**	0.01	0.12	0.00	0.43	0.40	50.3%	50.3%	0.3%	7.7%	0.1%	29.0%	26.6%
80			33		5	**1.39**	0.00	0.29	0.00	0.86	0.53		100.0%	0.3%	20.9%	0.2%	62.1%	38.4%	**0.63**	0.00	0.17	0.00	0.40	0.28	45.1%	45.1%	0.2%	12.3%	0.2%	29.1%	20.0%
81			38		5	**1.32**	0.00	0.07	0.01	0.77	0.67		100.0%	0.3%	5.1%	0.4%	58.2%	50.8%	**0.71**	0.00	0.04	0.00	0.35	0.46	53.3%	53.3%	0.3%	3.0%	0.3%	26.4%	34.4%
82			39		5	**1.11**	0.01	0.04	0.00	0.79	0.58		100.0%	0.5%	3.3%	0.2%	71.4%	52.4%	**0.64**	0.00	0.02	0.00	0.39	0.47	57.3%	57.3%	0.4%	1.7%	0.2%	35.3%	41.9%
83			40		5	**1.26**	0.01	0.10	0.00	0.79	0.56		100.0%	0.4%	7.6%	0.2%	63.2%	44.4%	**0.65**	0.01	0.05	0.00	0.38	0.37	52.0%	52.0%	0.4%	4.1%	0.1%	30.3%	29.6%
84			41		5	**1.51**	0.00	0.27	0.00	0.91	0.64		100.0%	0.3%	17.7%	0.2%	60.0%	42.3%	**0.72**	0.00	0.15	0.00	0.43	0.35	47.5%	47.5%	0.2%	10.2%	0.2%	28.7%	23.4%
85			129		1	0.19	0.00	0.01	0.00	0.06	**0.21**		88.2%	0.5%	6.1%	1.4%	25.9%	100.0%	0.06	0.00	0.01	0.00	0.02	**0.12**	57.1%	26.4%	0.5%	4.7%	0.9%	9.4%	57.1%
86			131		1	0.22	0.00	0.03	0.00	0.03	**0.31**		72.5%	0.0%	8.5%	1.0%	10.8%	100.0%	0.07	0.00	0.02	0.00	0.01	**0.15**	49.7%	23.5%	0.0%	5.6%	0.7%	3.6%	49.7%
87			133		1	0.20	0.00	0.03	0.00	0.03	**0.26**		76.7%	0.0%	9.5%	0.8%	12.2%	100.0%	0.07	0.00	0.01	0.00	0.01	**0.14**	54.2%	28.2%	0.0%	5.3%	0.4%	4.6%	54.2%
88			135		1	0.22	0.00	0.03	0.00	0.04	**0.26**		83.3%	0.0%	10.6%	0.4%	14.4%	100.0%	0.08	0.00	0.02	0.00	0.01	**0.13**	50.8%	29.2%	0.0%	6.1%	0.4%	4.5%	50.8%
89			137		1	0.19	0.00	0.04	0.00	0.04	**0.22**		88.2%	0.0%	18.2%	1.4%	16.4%	100.0%	0.06	0.00	0.02	0.00	0.01	**0.11**	48.6%	25.9%	0.0%	9.1%	1.4%	5.5%	48.6%
90			142		2	0.50	0.00	0.03	0.01	0.07	**0.58**		85.7%	0.2%	4.7%	1.0%	12.8%	100.0%	0.16	0.00	0.01	0.01	0.03	**0.32**	54.6%	28.0%	0.2%	1.9%	0.9%	5.7%	54.6%
91			143		2	0.62	0.00	0.05	0.00	0.07	**0.79**		77.7%	0.1%	6.4%	0.1%	8.3%	100.0%	0.24	0.00	0.03	0.00	0.02	**0.47**	59.7%	30.7%	0.1%	3.8%	0.1%	3.0%	59.7%
92			144		2	0.46	0.00	0.05	0.00	0.06	**0.57**		79.9%	0.2%	8.9%	0.2%	10.3%	100.0%	0.18	0.00	0.04	0.00	0.02	**0.35**	60.7%	31.8%	0.2%	6.1%	0.2%	3.5%	60.7%
93			145		2	0.31	0.00	0.11	0.00	0.07	**0.35**		89.2%	0.3%	31.6%	1.1%	20.2%	100.0%	0.13	0.00	0.07	0.00	0.03	**0.16**	45.6%	37.6%	0.3%	18.5%	1.1%	7.1%	45.6%
94			149		2	0.47	0.00	0.04	0.01	0.10	**0.58**		81.8%	0.2%	6.4%	1.6%	18.0%	100.0%	0.18	0.00	0.02	0.01	0.04	**0.35**	60.0%	30.7%	0.2%	4.0%	1.2%	7.5%	60.0%
95			150		2	0.59	0.00	0.08	0.00	0.07	**0.75**		78.4%	0.1%	9.9%	0.1%	9.2%	100.0%	0.23	0.00	0.04	0.00	0.03	**0.44**	58.4%	30.1%	0.1%	5.6%	0.0%	3.4%	58.4%
96			151		2	0.42	0.00	0.06	0.00	0.07	**0.51**		81.8%	0.2%	10.9%	0.6%	12.7%	100.0%	0.17	0.00	0.04	0.00	0.02	**0.31**	60.5%	32.8%	0.2%	7.6%	0.4%	4.1%	60.5%
97			157		5	1.50	0.00	0.08	0.01	0.28	**1.74**		86.2%	0.2%	4.6%	0.7%	15.8%	100.0%	0.69	0.00	0.04	0.01	0.15	**1.07**	61.3%	39.6%	0.2%	2.5%	0.6%	8.8%	61.3%
98			158		5	1.54	0.00	0.02	0.01	0.16	**1.89**		81.8%	0.2%	1.2%	0.5%	8.6%	100.0%	0.75	0.00	0.01	0.01	0.08	**1.38**	73.1%	40.0%	0.2%	0.7%	0.4%	4.2%	73.1%
99			159		5	1.40	0.00	0.09	0.00	0.14	**1.76**		79.6%	0.2%	5.3%	0.2%	7.8%	100.0%	0.73	0.00	0.04	0.00	0.07	**1.18**	66.9%	41.5%	0.2%	2.2%	0.1%	4.1%	66.9%
100			160		5	1.25	0.01	0.34	0.00	0.21	**1.52**		81.9%	0.3%	22.3%	0.1%	14.1%	100.0%	0.66	0.00	0.20	0.00	0.10	**0.93**	61.0%	43.4%	0.3%	13.3%	0.1%	6.6%	61.0%
101			161		5	0.97	0.00	0.35	0.01	0.21	**1.00**		97.5%	0.3%	34.9%	0.8%	21.3%	100.0%	0.50	0.00	0.21	0.01	0.10	**0.51**	51.5%	50.4%	0.2%	20.9%	0.7%	9.5%	51.5%
102			166		5	1.56	0.00	0.03	0.00	0.23	**1.92**		81.4%	0.2%	1.7%	0.2%	12.0%	100.0%	0.75	0.00	0.02	0.00	0.12	**1.28**	66.9%	39.1%	0.2%	0.9%	0.2%	6.5%	66.9%
103			167		5	1.46	0.00	0.04	0.00	0.15	**1.77**		82.9%	0.2%	2.3%	0.2%	8.5%	100.0%	0.75	0.00	0.03	0.00	0.07	**1.28**	72.5%	42.2%	0.2%	1.6%	0.2%	4.0%	72.5%
104			168		5	1.31	0.00	0.22	0.01	0.17	**1.62**		80.9%	0.2%	13.3%	0.3%	10.7%	100.0%	0.67	0.00	0.11	0.00	0.08	**1.04**	64.6%	41.4%	0.2%	6.9%	0.2%	5.0%	64.6%
105			169		5	1.09	0.00	0.37	0.01	0.23	**1.21**		90.6%	0.2%	30.6%	0.5%	19.1%	100.0%	0.57	0.00	0.22	0.01	0.11	**0.64**	52.8%	46.8%	0.2%	18.2%	0.4%	8.9%	52.8%
106			1	129	2	**0.63**	0.00	0.05	0.00	0.28	0.38		100.0%	0.2%	7.3%	0.6%	44.2%	59.7%	**0.24**	0.00	0.03	0.00	0.09	0.21	38.4%	38.4%	0.2%	5.4%	0.5%	14.1%	32.9%
107			3	131	2	**0.57**	0.00	0.05	0.00	0.24	0.46		100.0%	0.4%	8.5%	0.7%	42.3%	80.3%	0.21	0.00	0.03	0.00	0.08	**0.26**	45.1%	36.6%	0.4%	5.5%	0.5%	14.4%	45.1%
108			5	133	2	**0.58**	0.00	0.08	0.00	0.25	0.44		100.0%	0.3%	14.1%	0.3%	43.5%	75.2%	0.21	0.00	0.05	0.00	0.09	**0.25**	43.0%	36.8%	0.2%	8.3%	0.3%	16.0%	43.0%
109			7	135	2	0.50	0.00	0.06	0.00	0.22	**0.51**		96.7%	0.4%	12.1%	0.8%	43.2%	100.0%	0.19	0.00	0.04	0.00	0.09	**0.28**	54.7%	36.8%	0.4%	6.8%	0.6%	18.1%	54.7%
110			9	137	2	**0.46**	0.00	0.10	0.01	0.15	0.44		100.0%	0.7%	21.4%	1.3%	33.3%	95.2%	0.18	0.00	0.05	0.01	0.05	**0.20**	43.1%	39.4%	0.7%	11.8%	1.1%	10.5%	43.1%
111			14	142	4	**0.81**	0.00	0.07	0.01	0.31	0.80		100.0%	0.4%	9.1%	1.0%	37.6%	98.6%	0.31	0.00	0.04	0.01	0.15	**0.46**	56.1%	37.6%	0.4%	4.9%	0.9%	18.3%	56.1%
112			15	143	4	1.23	0.00	0.07	0.00	0.55	**1.26**		97.5%	0.2%	5.7%	0.2%	43.9%	100.0%	0.56	0.00	0.04	0.00	0.24	**0.77**	61.5%	44.7%	0.2%	3.1%	0.2%	18.7%	61.5%
113			16	144	4	0.72	0.01	0.15	0.00	0.35	**0.77**		94.0%	0.7%	19.0%	0.5%	45.6%	100.0%	0.29	0.01	0.09	0.00	0.16	**0.47**	60.6%	38.1%	0.7%	11.5%	0.4%	20.6%	60.6%
114			17	145	4	**0.76**	0.00	0.20	0.01	0.38	0.58		100.0%	0.4%	26.3%	0.8%	49.3%	76.7%	**0.32**	0.00	0.12	0.01	0.16	0.32	42.6%	42.6%	0.3%	16.3%	0.7%	21.6%	41.4%
115			21	149	4	**1.20**	0.00	0.08	0.01	0.62	0.98		100.0%	0.2%	6.3%	1.0%	51.8%	81.3%	0.53	0.00	0.05	0.01	0.26	**0.56**	47.0%	44.1%	0.2%	4.0%	0.7%	21.5%	47.0%
116			22	150	4	0.95	0.00	0.11	0.00	0.47	**0.98**		96.9%	0.3%	11.1%	0.2%	48.1%	100.0%	0.40	0.00	0.06	0.00	0.22	**0.61**	62.5%	40.6%	0.2%	6.5%	0.1%	22.8%	62.5%
117			23	151	4	**1.32**	0.00	0.16	0.00	0.60	0.82		100.0%	0.2%	12.1%	0.3%	45.3%	62.1%	**0.61**	0.00	0.11	0.00	0.22	0.47	46.1%	46.1%	0.2%	8.6%	0.2%	16.2%	35.6%
118			29	157	10	**3.52**	0.01	0.36	0.02	1.64	2.92		100.0%	0.3%	10.2%	0.7%	46.6%	83.1%	1.43	0.01	0.19	0.02	0.79	**1.73**	49.3%	40.6%	0.2%	5.5%	0.6%	22.5%	49.3%
119			30	158	10	2.87	0.01	0.07	0.02	1.45	**3.51**		81.9%	0.4%	1.9%	0.5%	41.2%	100.0%	1.30	0.01	0.04	0.02	0.70	**2.59**	74.0%	37.2%	0.3%	1.2%	0.4%	19.9%	74.0%
120			31	159	10	2.68	0.02	0.13	0.01	1.24	**2.96**		90.5%	0.6%	4.3%	0.2%	42.0%	100.0%	1.39	0.02	0.07	0.01	0.63	**2.09**	70.7%	46.9%	0.5%	2.3%	0.2%	21.5%	70.7%
121			32	160	10	**3.76**	0.01	0.78	0.01	1.76	3.10		100.0%	0.3%	20.8%	0.2%	46.8%	82.4%	1.98	0.01	0.44	0.01	0.88	**2.03**	54.0%	52.6%	0.2%	11.8%	0.2%	23.4%	54.0%
122			33	161	10	**3.39**	0.01	0.89	0.02	1.70	2.26		100.0%	0.2%	26.1%	0.6%	50.1%	66.5%	**1.68**	0.01	0.54	0.02	0.83	1.26	49.5%	49.5%	0.2%	15.9%	0.5%	24.3%	37.0%
123			38	166	10	3.37	0.01	0.15	0.02	1.65	**3.59**		93.9%	0.3%	4.1%	0.4%	46.0%	100.0%	1.45	0.01	0.07	0.01	0.81	**2.44**	68.0%	40.3%	0.3%	2.0%	0.3%	22.6%	68.0%
124			39	167	10	2.76	0.01	0.10	0.01	1.37	**3.04**		90.9%	0.3%	3.4%	0.3%	45.1%	100.0%	1.37	0.01	0.07	0.01	0.66	**2.30**	75.5%	45.0%	0.3%	2.1%	0.2%	21.8%	75.5%
125			40	168	10	**3.15**	0.01	0.48	0.01	1.48	2.90		100.0%	0.3%	15.2%	0.3%	47.0%	92.0%	1.72	0.01	0.22	0.01	0.72	**2.00**	63.3%	54.4%	0.3%	7.1%	0.3%	22.9%	63.3%
126			41	169	10	**3.77**	0.01	0.88	0.01	1.82	2.71		100.0%	0.2%	23.3%	0.4%	48.2%	71.8%	**1.91**	0.01	0.51	0.01	0.90	1.60	50.6%	50.6%	0.2%	13.5%	0.3%	23.8%	42.3%

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- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	6.2%	42.4%	4.6%	42.0%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.4%	52.5%	4.0%	26.0%	3.1%	31.4%	70.4%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.12	0.00	0.01	0.00	0.03	0.08		100.0%	1.6%	9.0%	0.8%	26.2%	67.2%	0.05	0.00	0.01	0.00	0.02	0.03	39.3%	39.3%	0.8%	6.6%	0.8%	15.6%	27.0%
65			3		1	0.15	0.00	0.02	0.01	0.03	0.06		100.0%	2.0%	11.1%	3.9%	18.3%	41.2%	0.04	0.00	0.01	0.00	0.02	0.03	28.8%	28.8%	1.3%	7.2%	2.6%	11.1%	21.6%
66			5		1	0.11	0.00	0.03	0.00	0.02	0.07		100.0%	3.8%	23.6%	0.9%	20.8%	68.9%	0.04	0.00	0.01	0.00	0.01	0.03	36.8%	36.8%	2.8%	13.2%	0.9%	13.2%	32.1%
67			7		1	0.10	0.00	0.01	0.00	0.02	0.07		100.0%	2.9%	13.7%	1.0%	23.5%	65.7%	0.04	0.00	0.01	0.00	0.01	0.05	47.1%	35.3%	2.0%	6.9%	0.0%	13.7%	47.1%
68			9		1	0.11	0.00	0.03	0.00	0.01	0.07		100.0%	2.8%	23.6%	0.9%	12.3%	67.0%	0.04	0.00	0.01	0.00	0.01	0.03	38.7%	38.7%	1.9%	11.3%	0.9%	6.6%	24.5%
69			14		2	0.23	0.01	0.03	0.01	0.05	0.16		100.0%	2.2%	13.4%	3.9%	20.8%	70.1%	0.10	0.00	0.02	0.01	0.03	0.08	41.1%	41.1%	1.3%	9.1%	2.6%	10.8%	33.8%
70			15		2	0.29	0.01	0.01	0.01	0.09	0.20		100.0%	2.1%	4.5%	2.4%	30.4%	68.2%	0.11	0.00	0.01	0.00	0.05	0.09	37.4%	37.4%	1.4%	2.8%	1.4%	17.8%	32.5%
71			16		2	0.24	0.00	0.04	0.00	0.05	0.14		100.0%	1.6%	17.2%	0.8%	20.5%	57.4%	0.10	0.00	0.02	0.00	0.03	0.06	42.6%	42.6%	1.2%	9.8%	0.4%	11.1%	25.4%
72			17		2	0.28	0.00	0.04	0.01	0.07	0.16		100.0%	1.4%	14.9%	1.8%	23.5%	55.5%	0.11	0.00	0.03	0.00	0.04	0.07	37.7%	37.7%	1.1%	10.0%	1.1%	14.9%	23.8%
73			21		2	0.27	0.01	0.02	0.01	0.07	0.19		100.0%	2.3%	6.4%	3.0%	27.1%	72.6%	0.11	0.00	0.01	0.01	0.04	0.09	39.5%	39.5%	1.1%	4.5%	1.9%	15.4%	32.7%
74			22		2	0.30	0.01	0.01	0.01	0.09	0.19		100.0%	2.4%	4.4%	2.0%	30.8%	64.7%	0.11	0.00	0.01	0.00	0.06	0.10	36.6%	36.6%	1.4%	3.1%	1.4%	18.6%	32.5%
75			23		2	0.31	0.01	0.04	0.00	0.08	0.15		100.0%	1.6%	12.4%	1.3%	26.1%	48.4%	0.12	0.00	0.03	0.00	0.05	0.08	37.9%	37.9%	1.3%	8.2%	1.0%	16.3%	25.2%
76			29		5	0.71	0.01	0.09	0.01	0.15	0.35		100.0%	2.0%	11.9%	2.0%	21.1%	49.7%	0.32	0.01	0.04	0.01	0.08	0.17	44.9%	44.9%	1.5%	5.8%	1.4%	11.2%	23.3%
77			30		5	0.56	0.03	0.04	0.01	0.19	0.43		100.0%	5.2%	6.8%	1.4%	33.8%	77.3%	0.24	0.02	0.02	0.01	0.13	0.28	50.4%	43.1%	3.6%	4.3%	0.9%	23.4%	50.4%
78			31		5	0.60	0.03	0.03	0.01	0.23	0.37		100.0%	4.5%	5.0%	1.0%	37.3%	61.9%	0.24	0.02	0.02	0.00	0.18	0.23	40.2%	40.2%	3.6%	2.8%	0.7%	30.1%	37.6%
79			32		5	0.75	0.02	0.14	0.00	0.17	0.48		100.0%	2.8%	18.1%	0.4%	23.1%	64.1%	0.36	0.02	0.07	0.00	0.11	0.26	47.7%	47.7%	2.1%	9.3%	0.3%	14.5%	34.1%
80			33		5	0.84	0.02	0.18	0.01	0.16	0.48		100.0%	1.9%	21.1%	1.1%	18.9%	56.7%	0.33	0.01	0.11	0.01	0.09	0.20	39.5%	39.5%	1.4%	13.5%	0.7%	10.4%	23.3%
81			38		5	0.69	0.02	0.06	0.01	0.18	0.43		100.0%	3.2%	8.3%	1.3%	26.0%	62.0%	0.30	0.02	0.03	0.01	0.11	0.26	43.1%	43.1%	2.2%	4.6%	0.9%	16.4%	37.7%
82			39		5	0.50	0.03	0.04	0.01	0.21	0.40		100.0%	6.2%	7.8%	1.6%	42.0%	79.8%	0.20	0.02	0.02	0.01	0.16	0.25	50.8%	40.4%	4.0%	4.8%	1.2%	31.4%	50.8%
83			40		5	0.63	0.02	0.07	0.00	0.19	0.38		100.0%	2.8%	10.4%	0.3%	30.4%	59.7%	0.27	0.02	0.04	0.00	0.15	0.23	42.7%	42.7%	2.4%	6.8%	0.3%	22.9%	36.9%
84			41		5	0.84	0.02	0.17	0.01	0.16	0.52		100.0%	2.3%	20.1%	0.7%	19.5%	62.0%	0.37	0.01	0.10	0.00	0.09	0.24	43.5%	43.5%	1.7%	11.4%	0.4%	11.0%	28.7%
85			129		1	0.24	0.00	0.03	0.00	0.01	0.24		100.0%	1.2%	13.1%	1.2%	4.1%	98.4%	0.10	0.00	0.02	0.00	0.01	0.11	44.3%	40.2%	0.8%	9.4%	0.4%	2.0%	44.3%
86			131		1	0.22	0.00	0.03	0.00	0.01	0.29		76.7%	1.0%	9.9%	0.3%	2.1%	100.0%	0.07	0.00	0.02	0.00	0.00	0.15	50.0%	22.9%	1.0%	6.5%	0.3%	1.0%	50.0%
87			133		1	0.20	0.00	0.03	0.00	0.00	0.27		75.1%	1.1%	11.5%	0.4%	1.5%	100.0%	0.07	0.00	0.02	0.00	0.00	0.14	53.5%	26.4%	0.7%	6.7%	0.4%	1.1%	53.5%
88			135		1	0.21	0.00	0.03	0.00	0.01	0.27		78.7%	1.1%	12.1%	1.1%	2.9%	100.0%	0.08	0.00	0.02	0.00	0.00	0.15	53.3%	30.9%	0.7%	7.4%	0.7%	1.5%	53.3%
89			137		1	0.19	0.00	0.04	0.00	0.01	0.21		89.1%	1.9%	20.9%	1.4%	5.7%	100.0%	0.06	0.00	0.02	0.00	0.01	0.10	49.3%	28.4%	0.9%	9.5%	0.9%	3.3%	49.3%
90			142		2	0.47	0.01	0.03	0.01	0.02	0.56		84.0%	1.1%	6.1%	1.6%	3.1%	100.0%	0.16	0.01	0.01	0.01	0.01	0.31	55.5%	28.9%	0.9%	2.3%	1.1%	2.2%	55.5%
91			143		2	0.61	0.00	0.07	0.00	0.01	0.79		77.0%	0.5%	8.6%	0.1%	1.4%	100.0%	0.24	0.00	0.04	0.00	0.01	0.46	57.6%	29.6%	0.4%	5.3%	0.1%	0.8%	57.6%
92			144		2	0.53	0.01	0.09	0.00	0.02	0.57		93.0%	0.9%	15.4%	0.4%	3.9%	100.0%	0.23	0.00	0.06	0.00	0.01	0.29	51.0%	40.6%	0.7%	10.5%	0.2%	2.1%	51.0%
93			145		2	0.25	0.01	0.14	0.01	0.01	0.34		74.6%	1.5%	39.8%	1.5%	3.8%	100.0%	0.11	0.00	0.08	0.00	0.01	0.15	44.2%	31.6%	1.2%	22.4%	1.2%	2.1%	44.2%
94			149		2	0.51	0.01	0.03	0.00	0.02	0.62		83.3%	1.6%	5.2%	0.7%	3.4%	100.0%	0.19	0.01	0.02	0.00	0.01	0.37	59.7%	31.2%	1.0%	3.6%	0.5%	2.0%	59.7%
95			150		2	0.54	0.00	0.08	0.00	0.02	0.73		74.5%	0.5%	10.5%	0.3%	2.5%	100.0%	0.23	0.00	0.05	0.00	0.01	0.40	55.2%	31.2%	0.5%	6.3%	0.1%	1.1%	55.2%
96			151		2	0.50	0.01	0.10	0.00	0.02	0.52		95.6%	1.0%	18.1%	0.6%	4.2%	100.0%	0.23	0.00	0.07	0.00	0.01	0.27	51.3%	44.7%	0.8%	12.4%	0.4%	2.1%	51.3%
97			157		5	1.53	0.02	0.06	0.02	0.06	1.68		90.7%	1.0%	3.8%	1.0%	3.5%	100.0%	0.65	0.01	0.03	0.01	0.04	1.07	63.8%	38.8%	0.7%	2.0%	0.7%	2.5%	63.8%
98			158		5	1.56	0.02	0.02	0.01	0.05	1.90		82.3%	0.8%	1.2%	0.3%	2.6%	100.0%	0.79	0.01	0.01	0.01	0.03	1.32	69.7%	41.4%	0.7%	0.7%	0.3%	1.7%	69.7%
99			159		5	1.39	0.01	0.12	0.00	0.05	1.77		78.7%	0.8%	6.6%	0.1%	2.8%	100.0%	0.73	0.01	0.05	0.00	0.03	1.14	64.4%	41.4%	0.6%	2.9%	0.1%	1.6%	64.4%
100			160		5	1.48	0.02	0.45	0.00	0.10	1.69		87.7%	1.1%	26.8%	0.2%	5.7%	100.0%	0.83	0.02	0.29	0.00	0.05	1.02	60.5%	49.3%	0.9%	17.1%	0.2%	2.9%	60.5%
101			161		5	0.98	0.01	0.34	0.01	0.06	1.03		94.5%	0.7%	33.2%	0.6%	5.7%	100.0%	0.50	0.01	0.21	0.00	0.03	0.53	51.5%	48.5%	0.5%	20.4%	0.4%	2.7%	51.5%
102			166		5	1.63	0.02	0.05	0.01	0.06	1.90		85.9%	1.0%	2.4%	0.3%	3.4%	100.0%	0.78	0.01	0.03	0.00	0.05	1.30	68.1%	40.9%	0.6%	1.4%	0.2%	2.4%	68.1%
103			167		5	1.46	0.02	0.05	0.01	0.04	1.82		80.0%	1.1%	2.6%	0.5%	1.9%	100.0%	0.76	0.01	0.02	0.01	0.02	1.26	69.3%	41.6%	0.8%	1.2%	0.3%	1.2%	69.3%
104			168		5	1.35	0.02	0.27	0.01	0.08	1.61		83.9%	1.0%	16.7%	0.5%	4.7%	100.0%	0.73	0.01	0.16	0.01	0.04	0.99	61.8%	45.6%	0.9%	10.1%	0.4%	2.5%	61.8%
105			169		5	1.22	0.01	0.39	0.00	0.08	1.32		92.4%	0.8%	29.2%	0.3%	5.9%	100.0%	0.65	0.01	0.24	0.00	0.04	0.71	53.9%	49.2%	0.7%	18.3%	0.2%	2.8%	53.9%
106			1	129	2	0.52	0.01	0.05	0.01	0.07	0.40		100.0%	1.3%	10.2%	1.0%	12.5%	76.0%	0.22	0.00	0.03	0.00	0.04	0.17	41.3%	41.3%	0.8%	6.5%	0.6%	7.1%	32.7%
107			3	131	2	0.47	0.01	0.07	0.01	0.05	0.44		100.0%	1.5%	14.6%	2.1%	9.7%	93.0%	0.14	0.01	0.05	0.01	0.03	0.25	51.9%	30.1%	1.3%	10.2%	1.5%	5.7%	51.9%
108			5	133	2	0.35	0.01	0.08	0.00	0.03	0.44		80.7%	2.5%	19.3%	0.7%	7.1%	100.0%	0.13	0.01	0.04	0.00	0.02	0.24	55.9%	29.4%	2.1%	9.9%	0.7%	4.4%	55.9%
109			7	135	2	0.36	0.01	0.06	0.00	0.05	0.49		73.9%	1.8%	12.2%	0.8%	9.6%	100.0%	0.13	0.01	0.04	0.00	0.03	0.29	60.0%	26.3%	1.8%	7.8%	0.6%	5.3%	60.0%
110			9	137	2	0.42	0.01	0.12	0.01	0.04	0.36		100.0%	2.6%	28.7%	1.4%	10.5%	84.9%	0.16	0.01	0.06	0.00	0.02	0.15	37.1%	37.1%	1.9%	13.9%	1.0%	5.5%	36.8%
111			14	142	4	0.67	0.01	0.10	0.03	0.09	0.74		90.0%	1.9%	12.8%	4.6%	11.9%	100.0%	0.23	0.01	0.06	0.02	0.06	0.41	55.5%	30.9%	1.5%	8.0%	3.1%	7.8%	55.5%
112			15	143	4	0.97	0.01	0.10	0.01	0.13	1.22		79.8%	1.0%	8.5%	0.7%	10.7%	100.0%	0.35	0.01	0.07	0.01	0.08	0.72	59.0%	28.3%	0.8%	5.3%	0.5%	6.2%	59.0%
113			16	144	4	0.79	0.01	0.20	0.01	0.09	0.68		100.0%	1.5%	25.1%	0.8%	11.5%	86.4%	0.37	0.01	0.12	0.00	0.04	0.36	47.1%	47.1%	1.4%	15.8%	0.5%	5.6%	46.2%
114			17	145	4	0.45	0.01	0.28	0.02	0.10	0.66		69.2%	1.8%	42.4%	2.6%	15.6%	100.0%	0.22	0.01	0.17	0.01	0.06	0.30	45.0%	32.8%	1.4%	26.0%	1.7%	9.5%	45.0%
115			21	149	4	0.91	0.02	0.06	0.02	0.15	1.00		91.0%	1.8%	5.8%	1.8%	15.1%	100.0%	0.39	0.01	0.04	0.01	0.09	0.52	51.7%	38.5%	1.1%	4.0%	1.2%	8.6%	51.7%
116			22	150	4	0.80	0.01	0.11	0.01	0.11	0.93		85.6%	1.5%	12.0%	1.4%	11.3%	100.0%	0.31	0.01	0.07	0.01	0.07	0.54	58.0%	33.3%	1.0%	7.4%	1.0%	7.3%	58.0%
117			23	151	4	1.17	0.01	0.17	0.01	0.15	0.83		100.0%	1.2%	14.7%	0.8%	12.8%	71.2%	0.53	0.01	0.12	0.01	0.09	0.45	45.2%	45.2%	0.8%	10.5%	0.6%	7.5%	38.0%
118			29	157	10	2.36	0.05	0.23	0.05	0.38	2.61		90.4%	2.0%	8.9%	1.9%	14.5%	100.0%	1.01	0.04	0.10	0.03	0.23	1.54	59.0%	38.8%	1.5%	3.9%	1.2%	8.9%	59.0%
119			30	158	10	2.12	0.08	0.06	0.02	0.37	2.97		71.5%	2.5%	2.2%	0.7%	12.4%	100.0%	1.00	0.05	0.04	0.02	0.27	2.09	70.4%	33.7%	1.8%	1.3%	0.5%	9.1%	70.4%
120			31	159	10	2.10	0.06	0.16	0.01	0.34	2.72		77.3%	2.1%	5.8%	0.4%	12.6%	100.0%	1.05	0.05	0.07	0.01	0.27	1.83	67.4%	38.4%	1.7%	2.7%	0.3%	9.8%	67.4%
121			32	160	10	3.36	0.06	0.76	0.01	0.47	2.96		100.0%	1.8%	22.7%	0.3%	14.0%	88.0%	1.76	0.05	0.45	0.01	0.26	1.84	54.8%	52.5%	1.5%	13.4%	0.2%	7.8%	54.8%
122			33	161	10	2.92	0.04	0.84	0.02	0.38	2.37		100.0%	1.2%	28.6%	0.7%	13.1%	81.2%	1.33	0.03	0.52	0.01	0.20	1.18	45.5%	45.5%	1.0%	17.7%	0.5%	6.7%	40.6%
123			38	166	10	2.37	0.07	0.14	0.03	0.43	3.01		78.7%	2.2%	4.8%	0.8%	14.1%	100.0%	1.00	0.05	0.08	0.02	0.29	2.01	66.7%	33.2%	1.6%	2.8%	0.5%	9.6%	66.7%
124			39	167	10	2.04	0.06	0.09	0.03	0.32	2.87		71.2%	2.1%	3.2%	1.1%	11.2%	100.0%	0.96	0.04	0.06	0.02	0.25	2.02	70.3%	33.4%	1.5%	2.0%	0.7%	8.6%	70.3%
125			40	168	10	2.56	0.05	0.48	0.02	0.41	2.59		98.9%	2.0%	18.4%	0.6%	15.7%	100.0%	1.35	0.04	0.25	0.01	0.28	1.71	65.9%	52.2%	1.7%	9.5%	0.4%	10.7%	65.9%
126			41	169	10	3.27	0.05	0.85	0.01	0.42	2.70		100.0%	1.4%	25.9%	0.4%	13.0%	82.8%	1.59	0.04	0.51	0.01	0.22	1.46	48.7%	48.7%	1.1%	15.7%	0.3%	6.7%	44.6%

- K–patch Mid CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	4.6%	37.3%	2.4%	30.9%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						73.5%	55.4%	3.3%	23.7%	1.7%	24.1%	73.5%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.17	0.00	0.01	0.00	0.03	0.09		100.0%	1.8%	8.4%	0.6%	18.6%	52.7%	0.08	0.00	0.01	0.00	0.02	0.04	44.9%	44.9%	1.2%	5.4%	0.6%	9.6%	21.0%
65			3		1	0.18	0.00	0.02	0.00	0.03	0.07		100.0%	1.1%	10.1%	1.7%	16.9%	39.9%	0.07	0.00	0.01	0.00	0.02	0.04	39.3%	39.3%	1.1%	6.2%	1.1%	10.1%	23.6%
66			5		1	0.18	0.00	0.03	0.00	0.03	0.06		100.0%	2.2%	13.7%	0.5%	15.4%	34.1%	0.08	0.00	0.01	0.00	0.01	0.03	44.5%	44.5%	1.6%	7.7%	0.5%	7.7%	18.7%
67			7		1	0.13	0.00	0.02	0.00	0.03	0.08		100.0%	2.3%	12.4%	0.8%	21.7%	61.2%	0.05	0.00	0.01	0.00	0.01	0.06	46.5%	34.9%	1.6%	6.2%	0.8%	10.9%	46.5%
68			9		1	0.14	0.00	0.05	0.00	0.02	0.09		100.0%	2.9%	32.4%	0.7%	16.5%	64.0%	0.05	0.00	0.02	0.00	0.01	0.04	36.0%	36.0%	2.2%	13.7%	0.7%	10.1%	30.2%
69			14		2	0.30	0.01	0.03	0.01	0.06	0.15		100.0%	2.3%	9.3%	1.7%	20.9%	51.2%	0.15	0.00	0.02	0.00	0.04	0.07	49.5%	49.5%	1.3%	6.3%	1.0%	13.0%	22.6%
70			15		2	0.38	0.01	0.02	0.00	0.10	0.18		100.0%	1.6%	4.3%	0.8%	25.6%	47.5%	0.19	0.00	0.01	0.00	0.06	0.11	49.3%	49.3%	1.1%	2.9%	0.5%	16.0%	28.3%
71			16		2	0.30	0.01	0.07	0.00	0.06	0.18		100.0%	1.7%	23.1%	1.0%	21.0%	61.0%	0.11	0.00	0.03	0.00	0.03	0.08	37.6%	37.6%	1.4%	10.8%	0.7%	11.2%	26.4%
72			17		2	0.34	0.00	0.05	0.01	0.06	0.17		100.0%	1.2%	13.5%	1.5%	18.4%	49.1%	0.15	0.00	0.03	0.00	0.04	0.07	43.6%	43.6%	0.9%	8.2%	0.9%	10.8%	21.1%
73			21		2	0.35	0.01	0.02	0.00	0.09	0.18		100.0%	2.0%	5.4%	1.1%	24.4%	49.6%	0.18	0.00	0.01	0.00	0.06	0.09	50.7%	50.7%	1.1%	3.7%	0.6%	15.6%	26.1%
74			22		2	0.38	0.01	0.02	0.00	0.10	0.18		100.0%	1.6%	4.5%	0.8%	26.0%	46.7%	0.18	0.01	0.01	0.00	0.06	0.11	48.3%	48.3%	1.3%	2.9%	0.5%	15.7%	28.6%
75			23		2	0.37	0.00	0.05	0.00	0.07	0.16		100.0%	1.1%	12.1%	1.1%	19.9%	43.8%	0.16	0.00	0.03	0.00	0.04	0.08	43.5%	43.5%	1.1%	7.5%	0.5%	11.6%	22.3%
76			29		5	0.91	0.02	0.12	0.01	0.22	0.37		100.0%	2.0%	12.7%	1.1%	24.2%	40.4%	0.46	0.01	0.06	0.01	0.13	0.19	50.3%	50.3%	1.4%	6.3%	0.7%	14.4%	20.6%
77			30		5	0.89	0.03	0.04	0.01	0.25	0.45		100.0%	3.7%	4.6%	0.8%	27.5%	50.7%	0.45	0.02	0.02	0.01	0.18	0.32	50.6%	50.6%	2.4%	2.7%	0.6%	20.2%	35.4%
78			31		5	0.74	0.02	0.08	0.01	0.20	0.37		100.0%	2.4%	10.6%	1.5%	26.2%	50.3%	0.38	0.02	0.04	0.01	0.15	0.26	51.6%	51.6%	2.0%	5.5%	0.9%	20.7%	35.3%
79			32		5	1.10	0.02	0.18	0.01	0.29	0.49		100.0%	1.4%	15.9%	0.5%	26.1%	44.8%	0.54	0.01	0.09	0.00	0.18	0.28	49.0%	49.0%	1.3%	7.7%	0.3%	16.0%	25.5%
80			33		5	1.11	0.01	0.21	0.01	0.26	0.54		100.0%	1.2%	18.9%	0.8%	23.5%	48.3%	0.46	0.01	0.14	0.01	0.15	0.27	40.9%	40.9%	0.9%	12.8%	0.5%	13.7%	23.9%
81			38		5	1.01	0.02	0.08	0.01	0.24	0.48		100.0%	1.7%	8.3%	0.7%	24.3%	47.8%	0.52	0.01	0.05	0.01	0.16	0.31	51.7%	51.7%	1.3%	4.9%	0.5%	16.1%	31.2%
82			39		5	0.72	0.03	0.04	0.01	0.22	0.37		100.0%	4.6%	5.8%	1.7%	30.9%	50.9%	0.37	0.02	0.03	0.01	0.17	0.27	50.9%	50.9%	3.3%	3.5%	1.0%	24.1%	36.9%
83			40		5	0.90	0.02	0.09	0.01	0.23	0.37		100.0%	1.8%	9.9%	0.6%	25.6%	41.4%	0.45	0.01	0.04	0.00	0.16	0.23	49.6%	49.6%	1.6%	4.8%	0.3%	18.1%	25.3%
84			41		5	1.18	0.02	0.20	0.01	0.30	0.57		100.0%	1.3%	16.9%	0.6%	25.1%	48.0%	0.53	0.01	0.12	0.00	0.17	0.29	44.9%	44.9%	1.0%	10.1%	0.3%	14.6%	24.8%
85			129		1	0.19	0.01	0.03	0.00	0.01	0.23		84.2%	2.6%	11.0%	0.9%	2.6%	100.0%	0.07	0.01	0.02	0.00	0.00	0.12	53.1%	32.0%	2.2%	7.9%	0.9%	1.8%	53.1%
86			131		1	0.21	0.00	0.03	0.00	0.01	0.29		72.8%	1.0%	8.5%	1.0%	2.7%	100.0%	0.07	0.00	0.02	0.00	0.00	0.14	46.9%	24.5%	1.0%	5.8%	0.7%	1.0%	46.9%
87			133		1	0.20	0.00	0.03	0.00	0.01	0.26		78.3%	1.2%	10.9%	0.8%	1.9%	100.0%	0.08	0.00	0.02	0.00	0.00	0.14	55.0%	30.2%	1.2%	6.2%	0.4%	1.2%	55.0%
88			135		1	0.22	0.00	0.03	0.00	0.01	0.27		83.2%	0.7%	10.4%	0.4%	3.0%	100.0%	0.09	0.00	0.02	0.00	0.00	0.14	52.2%	32.8%	0.7%	6.0%	0.4%	1.1%	52.2%
89			137		1	0.18	0.00	0.04	0.00	0.01	0.18		96.2%	1.6%	22.3%	2.2%	5.4%	100.0%	0.06	0.00	0.02	0.00	0.01	0.09	47.8%	32.6%	1.1%	10.3%	1.6%	2.7%	47.8%
90			142		2	0.45	0.01	0.04	0.01	0.02	0.52		86.8%	1.2%	7.8%	1.7%	3.5%	100.0%	0.14	0.00	0.01	0.01	0.01	0.28	53.4%	27.8%	0.8%	2.7%	1.4%	1.7%	53.4%
91			143		2	0.63	0.00	0.06	0.00	0.02	0.78		80.4%	0.5%	8.2%	0.1%	2.2%	100.0%	0.25	0.00	0.04	0.00	0.01	0.45	57.3%	32.1%	0.4%	5.0%	0.1%	1.2%	57.3%
92			144		2	0.48	0.01	0.07	0.00	0.02	0.60		80.7%	1.0%	12.1%	0.3%	3.0%	100.0%	0.22	0.00	0.05	0.00	0.01	0.31	51.8%	36.4%	0.7%	8.2%	0.3%	1.8%	51.8%
93			145		2	0.30	0.00	0.11	0.00	0.01	0.33		92.0%	0.9%	32.1%	1.2%	4.3%	100.0%	0.13	0.00	0.06	0.00	0.01	0.15	46.2%	40.1%	0.6%	18.3%	0.9%	2.1%	46.2%
94			149		2	0.47	0.01	0.03	0.01	0.02	0.60		78.3%	1.5%	4.3%	0.8%	3.0%	100.0%	0.18	0.01	0.02	0.00	0.01	0.37	61.0%	30.3%	1.2%	3.0%	0.7%	1.5%	61.0%
95			150		2	0.57	0.00	0.07	0.00	0.02	0.74		77.0%	0.5%	9.9%	0.1%	2.0%	100.0%	0.23	0.00	0.04	0.00	0.01	0.42	57.2%	31.4%	0.4%	5.5%	0.1%	0.9%	57.2%
96			151		2	0.45	0.01	0.08	0.00	0.02	0.54		84.4%	1.1%	15.1%	0.6%	3.5%	100.0%	0.21	0.01	0.06	0.00	0.01	0.27	50.7%	39.9%	0.9%	10.2%	0.6%	2.0%	50.7%
97			157		5	1.41	0.02	0.06	0.01	0.06	1.68		83.7%	1.0%	3.7%	0.8%	3.4%	100.0%	0.62	0.01	0.03	0.01	0.04	1.05	62.2%	37.1%	0.7%	2.0%	0.7%	2.2%	62.2%
98			158		5	1.49	0.02	0.02	0.01	0.06	1.84		81.4%	0.9%	1.3%	0.5%	3.1%	100.0%	0.74	0.01	0.01	0.01	0.04	1.29	70.5%	40.1%	0.7%	0.6%	0.4%	1.9%	70.5%
99			159		5	1.39	0.01	0.11	0.00	0.05	1.75		79.5%	0.7%	6.3%	0.2%	2.8%	100.0%	0.74	0.01	0.04	0.00	0.03	1.14	65.1%	42.5%	0.6%	2.3%	0.1%	1.7%	65.1%
100			160		5	1.39	0.02	0.41	0.01	0.09	1.58		87.8%	1.0%	25.8%	0.3%	5.5%	100.0%	0.78	0.01	0.25	0.00	0.04	0.96	60.6%	49.5%	0.8%	15.7%	0.2%	2.8%	60.6%
101			161		5	1.05	0.01	0.39	0.01	0.07	1.05		99.9%	1.1%	36.6%	0.9%	6.6%	100.0%	0.57	0.01	0.24	0.01	0.04	0.54	54.0%	54.0%	0.8%	22.6%	0.7%	3.6%	51.0%
102			166		5	1.53	0.02	0.04	0.01	0.06	1.91		80.3%	1.0%	2.3%	0.4%	3.0%	100.0%	0.73	0.01	0.03	0.00	0.04	1.28	67.0%	38.2%	0.7%	1.4%	0.2%	1.9%	67.0%
103			167		5	1.46	0.02	0.03	0.01	0.07	1.74		83.7%	0.9%	1.4%	0.3%	3.9%	100.0%	0.76	0.01	0.02	0.00	0.04	1.23	70.7%	43.7%	0.7%	0.9%	0.2%	2.4%	70.7%
104			168		5	1.30	0.02	0.25	0.00	0.06	1.61		81.0%	1.0%	15.8%	0.2%	3.7%	100.0%	0.71	0.01	0.13	0.00	0.03	1.01	62.9%	43.9%	0.8%	8.1%	0.2%	2.1%	62.9%
105			169		5	1.23	0.01	0.42	0.01	0.08	1.28		95.6%	1.0%	32.5%	0.5%	6.3%	100.0%	0.67	0.01	0.26	0.01	0.05	0.69	53.7%	52.0%	0.7%	19.9%	0.4%	3.5%	53.7%
106			1	129	2	0.51	0.01	0.05	0.00	0.05	0.37		100.0%	2.4%	10.1%	0.8%	10.1%	72.4%	0.23	0.01	0.04	0.00	0.03	0.19	44.8%	44.8%	1.8%	7.5%	0.6%	6.1%	36.9%
107			3	131	2	0.50	0.01	0.07	0.01	0.06	0.42		100.0%	1.2%	13.5%	1.8%	11.3%	84.1%	0.19	0.00	0.04	0.01	0.03	0.25	49.2%	38.1%	0.8%	8.5%	1.4%	6.3%	49.2%
108			5	133	2	0.47	0.01	0.08	0.00	0.05	0.40		100.0%	2.6%	17.2%	0.9%	10.3%	86.9%	0.19	0.01	0.04	0.00	0.03	0.24	50.5%	41.7%	2.2%	8.8%	0.6%	5.4%	50.5%
109			7	135	2	0.44	0.01	0.06	0.01	0.05	0.49		89.9%	1.4%	11.7%	1.0%	10.7%	100.0%	0.15	0.01	0.03	0.00	0.03	0.29	59.9%	31.1%	1.0%	6.4%	0.8%	5.3%	59.9%
110			9	137	2	0.45	0.01	0.14	0.01	0.05	0.35		100.0%	2.0%	31.3%	1.3%	12.1%	77.9%	0.18	0.01	0.06	0.00	0.03	0.16	39.8%	39.8%	1.6%	13.6%	0.9%	6.3%	35.3%
111			14	142	4	0.67	0.02	0.09	0.02	0.10	0.71		95.2%	2.7%	12.7%	2.4%	14.4%	100.0%	0.26	0.01	0.06	0.01	0.07	0.36	51.3%	36.5%	1.8%	7.9%	1.7%	9.3%	51.3%
112			15	143	4	1.12	0.01	0.08	0.01	0.17	1.20		93.2%	1.2%	7.0%	0.5%	14.0%	100.0%	0.52	0.01	0.06	0.00	0.10	0.74	62.0%	43.1%	0.8%	4.8%	0.3%	8.5%	62.0%
113			16	144	4	0.74	0.01	0.18	0.01	0.11	0.74		100.0%	1.6%	23.9%	1.1%	14.7%	99.5%	0.33	0.01	0.11	0.01	0.06	0.40	53.6%	44.7%	1.4%	15.0%	0.8%	8.2%	53.6%
114			17	145	4	0.61	0.01	0.23	0.01	0.09	0.62		98.5%	1.5%	37.3%	1.9%	13.9%	100.0%	0.25	0.01	0.15	0.01	0.05	0.31	49.3%	40.1%	1.1%	23.7%	1.3%	8.2%	49.3%
115			21	149	4	0.99	0.02	0.05	0.01	0.16	0.92		100.0%	2.4%	5.4%	1.3%	16.2%	93.3%	0.46	0.02	0.04	0.01	0.10	0.54	54.4%	46.6%	1.7%	3.6%	1.0%	9.9%	54.4%
116			22	150	4	0.84	0.01	0.11	0.00	0.13	0.97		86.4%	1.3%	11.6%	0.4%	13.4%	100.0%	0.33	0.01	0.07	0.00	0.08	0.58	59.5%	33.4%	0.8%	7.2%	0.3%	8.4%	59.5%
117			23	151	4	1.17	0.02	0.17	0.01	0.15	0.87		100.0%	1.4%	14.8%	0.9%	12.4%	74.4%	0.56	0.01	0.13	0.01	0.09	0.45	47.8%	47.8%	1.1%	11.5%	0.6%	7.6%	38.5%
118			29	157	10	2.48	0.04	0.23	0.03	0.47	2.67		93.0%	1.6%	8.7%	1.3%	17.7%	100.0%	0.98	0.03	0.12	0.02	0.29	1.63	61.1%	36.8%	1.1%	4.5%	0.9%	10.8%	61.1%
119			30	158	10	2.32	0.08	0.07	0.03	0.44	3.03		76.6%	2.7%	2.4%	0.9%	14.6%	100.0%	1.10	0.06	0.04	0.02	0.32	2.16	71.3%	36.4%	2.0%	1.4%	0.6%	10.5%	71.3%
120			31	159	10	2.35	0.05	0.16	0.01	0.29	2.81		83.4%	1.7%	5.8%	0.5%	10.4%	100.0%	1.30	0.04	0.07	0.01	0.21	1.91	68.0%	46.2%	1.4%	2.6%	0.4%	7.4%	68.0%
121			32	160	10	3.60	0.06	0.82	0.01	0.62	2.88		100.0%	1.5%	22.8%	0.4%	17.3%	80.0%	1.88	0.05	0.47	0.01	0.36	1.86	52.3%	52.3%	1.4%	13.0%	0.2%	9.9%	51.6%
122			33	161	10	3.34	0.05	0.88	0.03	0.54	2.48		100.0%	1.4%	26.4%	0.9%	16.2%	74.2%	1.54	0.03	0.55	0.02	0.31	1.31	46.0%	46.0%	0.9%	16.5%	0.7%	9.2%	39.2%
123			38	166	10	2.52	0.06	0.16	0.02	0.49	3.21		78.5%	1.9%	4.9%	0.7%	15.2%	100.0%	1.06	0.05	0.08	0.01	0.32	2.19	68.4%	32.9%	1.5%	2.5%	0.4%	10.1%	68.4%
124			39	167	10	2.30	0.07	0.09	0.02	0.38	2.73		84.1%	2.7%	3.2%	0.9%	13.7%	100.0%	1.22	0.05	0.06	0.02	0.27	2.01	73.5%	44.6%	1.9%	2.3%	0.6%	9.9%	73.5%
125			40	168	10	2.82	0.05	0.52	0.01	0.43	2.61		100.0%	1.8%	18.4%	0.4%	15.2%	92.5%	1.57	0.04	0.24	0.01	0.28	1.77	62.6%	55.4%	1.5%	8.4%	0.2%	10.0%	62.6%
126			41	169	10	3.68	0.05	0.87	0.02	0.62	2.73		100.0%	1.5%	23.8%	0.6%	16.9%	74.3%	1.79	0.04	0.53	0.01	0.35	1.54	48.6%	48.6%	1.1%	14.3%	0.4%	9.5%	41.9%

- K–patch High CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							**100.0%**	**3.2%**	**36.8%**	**2.1%**	**29.2%**	**100.0%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**73.3%**	**56.1%**	**2.5%**	**23.1%**	**1.6%**	**20.1%**	**73.3%**
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.21**	0.00	0.02	0.00	0.05	0.07		100.0%	1.0%	8.6%	1.0%	21.9%	33.8%	**0.10**	0.00	0.01	0.00	0.03	0.03	46.2%	46.2%	1.0%	4.8%	0.5%	11.9%	12.4%
65			3		1	**0.20**	0.00	0.01	0.00	0.03	0.09		100.0%	2.0%	6.4%	0.5%	14.2%	42.2%	**0.08**	0.00	0.01	0.00	0.02	0.06	38.2%	38.2%	1.5%	4.4%	0.5%	8.3%	27.5%
66			5		1	**0.24**	0.00	0.03	0.00	0.04	0.07		100.0%	1.2%	12.0%	0.4%	15.8%	30.3%	**0.09**	0.00	0.02	0.00	0.02	0.05	38.6%	38.6%	1.2%	7.5%	0.4%	8.3%	19.5%
67			7		1	**0.18**	0.00	0.02	0.00	0.04	0.11		100.0%	2.2%	13.3%	0.6%	21.1%	58.3%	0.07	0.00	0.01	0.00	0.02	**0.08**	42.8%	36.7%	2.2%	5.6%	0.6%	11.1%	42.8%
68			9		1	**0.14**	0.00	0.04	0.00	0.02	0.10		100.0%	2.1%	28.0%	1.4%	16.8%	69.2%	**0.05**	0.00	0.02	0.00	0.01	0.04	32.9%	32.9%	1.4%	14.0%	0.7%	9.8%	29.4%
69			14		2	**0.31**	0.01	0.03	0.00	0.07	0.13		100.0%	1.9%	9.7%	1.3%	22.3%	42.9%	**0.15**	0.00	0.02	0.00	0.04	0.07	47.1%	47.1%	1.0%	7.1%	0.6%	13.5%	22.6%
70			15		2	**0.47**	0.00	0.02	0.00	0.12	0.19		100.0%	0.8%	4.7%	0.4%	25.3%	39.3%	**0.23**	0.00	0.01	0.00	0.07	0.11	48.0%	48.0%	0.8%	3.0%	0.2%	15.1%	23.8%
71			16		2	**0.33**	0.01	0.06	0.00	0.07	0.21		100.0%	1.8%	17.9%	0.6%	21.2%	64.5%	**0.11**	0.01	0.03	0.00	0.04	**0.11**	34.5%	34.5%	1.5%	9.1%	0.3%	10.9%	34.5%
72			17		2	**0.40**	0.01	0.04	0.00	0.08	0.15		100.0%	2.0%	10.1%	1.0%	19.1%	38.8%	**0.18**	0.01	0.03	0.00	0.04	0.08	45.8%	45.8%	1.3%	7.6%	0.5%	10.6%	18.9%
73			21		2	**0.41**	0.00	0.02	0.00	0.10	0.17		100.0%	1.0%	5.9%	0.7%	24.9%	40.8%	**0.20**	0.00	0.02	0.00	0.06	0.10	48.4%	48.4%	1.0%	4.2%	0.2%	15.2%	23.7%
74			22		2	**0.49**	0.00	0.02	0.00	0.12	0.19		100.0%	0.8%	4.5%	0.2%	25.3%	39.0%	**0.23**	0.00	0.01	0.00	0.07	0.12	47.6%	47.6%	0.8%	2.9%	0.2%	15.0%	23.8%
75			23		2	**0.45**	0.01	0.04	0.00	0.09	0.16		100.0%	1.6%	8.9%	0.7%	19.8%	36.4%	**0.21**	0.00	0.03	0.00	0.05	0.09	45.6%	45.6%	0.9%	6.7%	0.4%	10.9%	18.9%
76			29		5	**1.03**	0.01	0.14	0.01	0.22	0.39		100.0%	1.0%	13.5%	1.1%	21.5%	37.9%	**0.55**	0.01	0.06	0.01	0.13	0.22	53.3%	53.3%	0.8%	6.2%	0.7%	12.6%	21.5%
77			30		5	**1.11**	0.04	0.05	0.00	0.30	0.62		100.0%	3.2%	4.1%	0.3%	27.3%	55.7%	**0.55**	0.03	0.03	0.00	0.22	0.45	49.9%	49.9%	2.3%	2.3%	0.2%	20.1%	40.2%
78			31		5	**0.93**	0.02	0.07	0.00	0.27	0.48		100.0%	2.3%	8.0%	0.4%	29.2%	51.3%	**0.47**	0.02	0.04	0.00	0.18	0.37	50.9%	50.9%	2.2%	4.2%	0.3%	19.3%	40.4%
79			32		5	**1.27**	0.01	0.18	0.01	0.34	0.57		100.0%	1.1%	13.8%	0.4%	26.6%	44.9%	**0.59**	0.01	0.11	0.00	0.21	0.35	46.7%	46.7%	1.0%	8.5%	0.2%	16.5%	27.4%
80			33		5	**1.21**	0.02	0.23	0.01	0.32	0.50		100.0%	1.2%	18.8%	0.7%	26.3%	41.6%	**0.47**	0.01	0.14	0.01	0.19	0.29	38.4%	38.4%	1.1%	11.6%	0.4%	15.3%	24.0%
81			38		5	**1.19**	0.02	0.08	0.00	0.29	0.58		100.0%	1.8%	6.7%	0.3%	24.2%	48.6%	**0.62**	0.02	0.04	0.00	0.19	0.39	52.0%	52.0%	1.3%	3.5%	0.3%	15.9%	32.7%
82			39		5	**0.92**	0.03	0.04	0.01	0.25	0.56		100.0%	2.9%	4.6%	0.5%	27.4%	61.2%	**0.48**	0.02	0.02	0.00	0.18	0.45	51.6%	51.6%	2.5%	2.6%	0.3%	19.8%	48.8%
83			40		5	**1.10**	0.02	0.09	0.01	0.29	0.46		100.0%	1.8%	7.8%	0.5%	26.0%	42.1%	**0.52**	0.02	0.05	0.00	0.19	0.30	46.8%	46.8%	1.5%	4.2%	0.2%	17.3%	27.6%
84			41		5	**1.31**	0.02	0.22	0.01	0.36	0.58		100.0%	1.1%	17.0%	0.5%	27.2%	44.8%	**0.55**	0.01	0.14	0.00	0.21	0.34	42.5%	42.5%	1.1%	10.8%	0.3%	16.4%	26.4%
85			129		1	0.16	0.00	0.02	0.00	0.02	**0.19**		85.0%	1.6%	8.0%	1.1%	8.0%	100.0%	0.05	0.00	0.01	0.00	0.01	**0.11**	58.3%	26.7%	1.6%	5.9%	0.5%	3.2%	58.3%
86			131		1	0.22	0.00	0.03	0.00	0.01	**0.29**		75.4%	0.7%	8.7%	1.0%	3.5%	100.0%	0.07	0.00	0.02	0.00	0.01	**0.14**	49.8%	25.6%	0.7%	5.5%	0.7%	1.7%	49.8%
87			133		1	0.20	0.00	0.03	0.00	0.01	**0.26**		75.7%	0.8%	10.0%	0.8%	3.1%	100.0%	0.07	0.00	0.01	0.00	0.01	**0.14**	54.8%	26.6%	0.8%	5.4%	0.4%	1.9%	54.8%
88			135		1	0.22	0.00	0.03	0.00	0.01	**0.26**		83.3%	0.8%	12.2%	0.4%	3.8%	100.0%	0.08	0.00	0.02	0.00	0.01	**0.13**	49.4%	30.8%	0.8%	7.2%	0.4%	1.9%	49.4%
89			137		1	0.18	0.00	0.05	0.00	0.01	**0.19**		93.6%	1.1%	23.9%	2.1%	4.8%	100.0%	0.06	0.00	0.02	0.00	0.01	**0.09**	46.3%	30.9%	0.5%	11.7%	1.6%	2.7%	46.3%
90			142		2	0.47	0.01	0.03	0.01	0.03	**0.55**		85.5%	1.1%	5.3%	1.3%	5.1%	100.0%	0.15	0.01	0.01	0.01	0.02	**0.29**	52.6%	27.8%	0.9%	2.4%	0.9%	2.9%	52.6%
91			143		2	0.59	0.01	0.05	0.00	0.02	**0.78**		76.4%	0.6%	6.8%	0.1%	2.7%	100.0%	0.24	0.00	0.03	0.00	0.01	**0.46**	59.0%	30.5%	0.5%	4.4%	0.0%	1.5%	59.0%
92			144		2	0.43	0.00	0.06	0.00	0.02	**0.54**		79.7%	0.7%	11.2%	0.4%	2.8%	100.0%	0.18	0.00	0.04	0.00	0.01	**0.31**	57.6%	33.6%	0.6%	7.3%	0.2%	1.7%	57.6%
93			145		2	0.30	0.00	0.11	0.00	0.02	**0.33**		92.1%	0.9%	34.8%	1.2%	5.2%	100.0%	0.14	0.00	0.07	0.00	0.01	**0.14**	42.7%	42.1%	0.6%	20.7%	1.2%	2.1%	42.7%
94			149		2	0.43	0.01	0.03	0.01	0.03	**0.56**		76.2%	1.6%	5.5%	1.4%	5.3%	100.0%	0.16	0.01	0.02	0.01	0.01	**0.34**	61.2%	28.5%	1.2%	3.7%	0.9%	2.3%	61.2%
95			150		2	0.57	0.01	0.08	0.00	0.02	**0.74**		77.6%	0.7%	10.3%	0.1%	3.1%	100.0%	0.22	0.00	0.04	0.00	0.01	**0.43**	58.4%	29.3%	0.5%	6.0%	0.1%	1.5%	58.4%
96			151		2	0.39	0.00	0.07	0.00	0.02	**0.47**		82.6%	0.8%	14.0%	0.6%	3.2%	100.0%	0.17	0.00	0.04	0.00	0.01	**0.27**	57.5%	35.5%	0.6%	8.9%	0.4%	2.1%	57.5%
97			157		5	1.43	0.01	0.07	0.01	0.11	**1.68**		85.1%	0.8%	4.1%	0.7%	6.4%	100.0%	0.65	0.01	0.04	0.01	0.06	**1.05**	62.3%	38.7%	0.7%	2.1%	0.7%	3.8%	62.3%
98			158		5	1.46	0.02	0.03	0.01	0.08	**1.86**		78.5%	1.0%	1.5%	0.5%	4.0%	100.0%	0.73	0.02	0.02	0.01	0.05	**1.33**	71.2%	39.2%	0.8%	0.9%	0.4%	2.6%	71.2%
99			159		5	1.38	0.01	0.10	0.00	0.08	**1.73**		79.7%	0.8%	5.7%	0.2%	4.5%	100.0%	0.72	0.01	0.04	0.00	0.05	**1.14**	66.0%	41.7%	0.6%	2.4%	0.1%	2.6%	66.0%
100			160		5	1.20	0.01	0.38	0.00	0.08	**1.50**		79.9%	0.8%	25.1%	0.3%	5.0%	100.0%	0.66	0.01	0.22	0.00	0.04	**0.91**	60.3%	43.6%	0.6%	14.8%	0.2%	2.6%	60.3%
101			161		5	**0.93**	0.01	0.34	0.01	0.07	0.92		100.0%	1.0%	36.8%	1.1%	7.0%	99.9%	**0.52**	0.01	0.21	0.01	0.04	0.45	56.1%	56.1%	0.9%	23.1%	0.8%	4.1%	49.1%
102			166		5	1.51	0.02	0.03	0.01	0.10	**1.87**		80.5%	1.1%	1.8%	0.3%	5.2%	100.0%	0.73	0.02	0.02	0.00	0.06	**1.26**	67.4%	39.3%	0.9%	0.9%	0.2%	3.3%	67.4%
103			167		5	1.40	0.02	0.04	0.01	0.08	**1.73**		80.4%	0.9%	2.1%	0.3%	4.4%	100.0%	0.72	0.01	0.02	0.01	0.05	**1.22**	70.5%	41.3%	0.6%	1.3%	0.3%	2.8%	70.5%
104			168		5	1.26	0.01	0.23	0.01	0.07	**1.57**		80.7%	0.8%	14.6%	0.3%	4.6%	100.0%	0.65	0.01	0.12	0.00	0.04	**1.00**	63.9%	41.4%	0.6%	7.9%	0.3%	2.4%	63.9%
105			169		5	1.05	0.01	0.37	0.01	0.08	**1.16**		90.3%	1.0%	32.1%	0.7%	6.5%	100.0%	0.57	0.01	0.22	0.01	0.04	**0.59**	51.3%	49.4%	0.9%	18.8%	0.5%	3.6%	51.3%
106			1	129	2	**0.51**	0.01	0.04	0.01	0.08	0.29		100.0%	1.8%	7.6%	1.0%	15.2%	56.6%	**0.21**	0.01	0.03	0.00	0.05	0.18	40.4%	40.4%	1.4%	6.3%	0.6%	8.8%	34.2%
107			3	131	2	**0.52**	0.01	0.05	0.01	0.06	0.44		100.0%	1.1%	9.0%	1.1%	11.3%	84.3%	0.20	0.01	0.04	0.00	0.03	**0.25**	48.5%	38.5%	1.0%	6.9%	0.8%	6.5%	48.5%
108			5	133	2	**0.52**	0.01	0.08	0.00	0.06	0.43		100.0%	1.5%	14.7%	0.8%	11.6%	82.2%	0.19	0.01	0.04	0.00	0.03	**0.25**	48.5%	37.3%	1.2%	7.9%	0.6%	6.4%	48.5%
109			7	135	2	0.50	0.01	0.07	0.00	0.07	**0.51**		97.3%	1.8%	12.9%	0.6%	14.2%	100.0%	0.18	0.01	0.04	0.00	0.04	**0.28**	54.2%	35.7%	1.4%	7.4%	0.4%	7.2%	54.2%
110			9	137	2	**0.44**	0.01	0.14	0.01	0.06	0.38		100.0%	1.4%	32.4%	1.6%	12.6%	86.4%	**0.17**	0.01	0.07	0.01	0.03	0.16	39.5%	39.5%	1.1%	16.6%	1.1%	6.9%	36.3%
111			14	142	4	0.73	0.02	0.09	0.01	0.11	**0.76**		95.5%	2.7%	11.4%	1.7%	14.9%	100.0%	0.26	0.01	0.05	0.01	0.08	**0.43**	55.9%	33.9%	1.8%	6.7%	1.3%	10.5%	55.9%
112			15	143	4	1.17	0.01	0.07	0.00	0.21	**1.22**		95.9%	1.1%	5.8%	0.3%	16.8%	100.0%	0.55	0.01	0.04	0.00	0.12	**0.77**	63.5%	45.0%	0.9%	3.6%	0.2%	10.0%	63.5%
113			16	144	4	0.64	0.01	0.16	0.00	0.12	**0.72**		88.9%	1.8%	21.6%	0.6%	16.6%	100.0%	0.27	0.01	0.10	0.00	0.07	**0.42**	58.6%	38.0%	1.7%	13.4%	0.4%	9.6%	58.6%
114			17	145	4	**0.66**	0.02	0.22	0.01	0.10	0.54		100.0%	2.4%	33.3%	1.4%	14.7%	82.4%	**0.28**	0.01	0.13	0.01	0.06	0.27	42.2%	42.2%	1.4%	20.2%	1.1%	8.4%	41.0%
115			21	149	4	**1.01**	0.02	0.08	0.02	0.20	0.90		100.0%	1.9%	7.6%	1.5%	20.0%	89.8%	0.42	0.02	0.05	0.01	0.12	**0.54**	54.1%	41.9%	1.6%	4.9%	1.0%	11.4%	54.1%
116			22	150	4	0.90	0.01	0.12	0.00	0.19	**0.98**		92.2%	1.4%	12.1%	0.3%	19.4%	100.0%	0.38	0.01	0.07	0.00	0.12	**0.62**	63.8%	39.3%	1.1%	7.1%	0.2%	12.2%	63.8%
117			23	151	4	**1.16**	0.01	0.15	0.01	0.14	0.77		100.0%	1.1%	12.7%	0.7%	11.9%	65.9%	**0.57**	0.01	0.11	0.01	0.08	0.42	48.8%	48.8%	0.9%	9.1%	0.4%	7.0%	35.8%
118			29	157	10	**2.98**	0.04	0.35	0.03	0.58	2.71		100.0%	1.3%	11.9%	1.0%	19.4%	90.9%	1.16	0.03	0.16	0.02	0.34	**1.63**	54.8%	39.0%	0.8%	5.4%	0.7%	11.5%	54.8%
119			30	158	10	2.63	0.09	0.08	0.02	0.59	**3.45**		76.0%	2.5%	2.4%	0.6%	17.0%	100.0%	1.22	0.07	0.05	0.01	0.43	**2.50**	72.3%	35.3%	1.9%	1.4%	0.4%	12.4%	72.3%
120			31	159	10	2.60	0.05	0.16	0.01	0.50	**2.85**		91.5%	1.9%	5.6%	0.4%	17.6%	100.0%	1.35	0.05	0.08	0.01	0.32	**1.99**	69.9%	47.4%	1.7%	2.7%	0.2%	11.2%	69.9%
121			32	160	10	**3.44**	0.03	0.82	0.01	0.67	2.92		100.0%	1.0%	23.8%	0.3%	19.5%	85.0%	1.79	0.03	0.47	0.01	0.41	**1.87**	54.4%	52.1%	0.8%	13.6%	0.2%	11.8%	54.4%
122			33	161	10	**3.10**	0.03	0.77	0.02	0.63	2.07		100.0%	1.0%	24.8%	0.8%	20.2%	66.8%	**1.44**	0.03	0.50	0.02	0.37	1.12	46.4%	46.4%	0.8%	16.0%	0.6%	11.8%	36.0%
123			38	166	10	2.94	0.06	0.17	0.01	0.64	**3.39**		86.8%	1.8%	5.1%	0.4%	19.0%	100.0%	1.25	0.04	0.08	0.01	0.43	**2.33**	68.7%	36.9%	1.3%	2.3%	0.2%	12.8%	68.7%
124			39	167	10	2.53	0.06	0.11	0.01	0.49	**2.98**		85.1%	2.1%	3.7%	0.5%	16.4%	100.0%	1.29	0.05	0.06	0.01	0.34	**2.18**	73.3%	43.2%	1.8%	2.0%	0.3%	11.3%	73.3%
125			40	168	10	**2.98**	0.05	0.49	0.01	0.51	2.66		100.0%	1.6%	16.4%	0.3%	17.3%	89.2%	1.61	0.04	0.25	0.01	0.33	**1.80**	60.5%	54.0%	1.3%	8.5%	0.2%	11.2%	60.5%
126			41	169	10	**3.44**	0.03	0.79	0.02	0.70	2.53		100.0%	0.9%	22.9%	0.5%	20.4%	73.6%	**1.68**	0.03	0.47	0.01	0.42	1.44	48.7%	48.7%	0.8%	13.6%	0.4%	12.2%	41.9%

Table 6. PD of Ant K – patch antenna (28GHz – n261)

[Folder Open Status]

- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	0.9%	42.2%	3.1%	78.8%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						76.0%	59.9%	0.9%	25.0%	2.3%	43.5%	76.0%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.26	0.00	0.02	0.00	0.15	0.15		100.0%	0.4%	7.2%	0.4%	55.5%	55.9%	0.11	0.00	0.01	0.00	0.05	0.08	43.0%	43.0%	0.4%	4.6%	0.4%	19.0%	31.2%
65			3		1	0.26	0.00	0.02	0.00	0.14	0.11		100.0%	0.4%	8.2%	0.4%	54.5%	42.0%	0.09	0.00	0.01	0.00	0.05	0.05	34.9%	34.9%	0.4%	5.1%	0.4%	18.0%	20.4%
66			5		1	0.27	0.00	0.03	0.00	0.14	0.10		100.0%	0.4%	9.3%	0.4%	53.7%	35.8%	0.09	0.00	0.02	0.00	0.05	0.06	34.0%	34.0%	0.4%	5.6%	0.4%	20.1%	21.6%
67			7		1	0.19	0.00	0.03	0.00	0.11	0.10		100.0%	0.5%	16.2%	0.5%	58.1%	53.4%	0.06	0.00	0.02	0.00	0.04	0.06	33.0%	33.0%	0.5%	9.9%	0.5%	20.9%	28.8%
68			9		1	0.14	0.00	0.04	0.00	0.08	0.11		100.0%	0.7%	30.9%	0.7%	60.3%	83.1%	0.04	0.00	0.02	0.00	0.03	0.05	37.5%	31.6%	0.7%	13.2%	0.7%	19.9%	37.5%
69			14		2	0.46	0.00	0.08	0.00	0.24	0.27		100.0%	0.4%	17.4%	0.7%	52.8%	57.6%	0.16	0.00	0.05	0.00	0.08	0.15	34.8%	34.8%	0.4%	10.7%	0.4%	17.4%	31.7%
70			15		2	0.50	0.00	0.02	0.00	0.32	0.24		100.0%	0.4%	4.4%	0.0%	64.1%	49.0%	0.26	0.00	0.02	0.00	0.14	0.17	52.4%	52.4%	0.4%	3.2%	0.0%	27.6%	34.3%
71			16		2	0.49	0.00	0.02	0.00	0.33	0.24		100.0%	0.4%	4.3%	0.4%	66.7%	49.1%	0.26	0.00	0.01	0.00	0.15	0.15	52.6%	52.6%	0.4%	2.7%	0.4%	29.8%	31.6%
72			17		2	0.47	0.00	0.06	0.00	0.25	0.18		100.0%	0.9%	12.4%	0.6%	53.2%	38.7%	0.17	0.00	0.04	0.00	0.09	0.11	36.3%	36.3%	0.9%	7.9%	0.6%	18.2%	23.7%
73			21		2	0.52	0.00	0.05	0.00	0.29	0.30		100.0%	0.4%	10.3%	0.2%	55.3%	57.1%	0.23	0.00	0.03	0.00	0.11	0.19	44.5%	44.5%	0.2%	6.5%	0.2%	21.4%	35.7%
74			22		2	0.50	0.00	0.01	0.00	0.35	0.24		100.0%	0.4%	1.8%	0.2%	70.3%	47.7%	0.28	0.00	0.01	0.00	0.16	0.16	56.6%	56.6%	0.4%	1.2%	0.2%	31.5%	32.1%
75			23		2	0.34	0.00	0.06	0.00	0.16	0.25		100.0%	0.6%	17.6%	1.2%	48.1%	73.9%	0.12	0.00	0.02	0.00	0.05	0.13	38.4%	35.5%	0.6%	7.0%	0.9%	15.5%	38.4%
76			29		5	0.90	0.00	0.30	0.00	0.55	0.73		100.0%	0.3%	33.5%	0.3%	61.5%	81.3%	0.33	0.00	0.21	0.00	0.24	0.41	45.3%	36.5%	0.3%	22.8%	0.3%	26.5%	45.3%
77			30		5	1.05	0.01	0.16	0.00	0.69	0.61		100.0%	0.7%	15.5%	0.3%	65.4%	58.3%	0.60	0.01	0.08	0.00	0.36	0.45	57.0%	57.0%	0.6%	8.0%	0.2%	34.4%	42.5%
78			31		5	1.05	0.01	0.03	0.00	0.82	0.52		100.0%	0.8%	3.2%	0.2%	77.8%	50.0%	0.61	0.01	0.01	0.00	0.46	0.41	58.1%	58.1%	0.7%	1.3%	0.2%	43.5%	39.4%
79			32		5	1.10	0.01	0.04	0.00	0.79	0.68		100.0%	0.5%	3.9%	0.3%	71.6%	62.0%	0.60	0.01	0.03	0.00	0.36	0.47	55.1%	55.1%	0.5%	2.3%	0.3%	32.7%	43.2%
80			33		5	1.09	0.01	0.13	0.02	0.56	0.58		100.0%	0.6%	11.7%	1.6%	51.7%	53.5%	0.49	0.00	0.06	0.02	0.23	0.26	45.0%	45.0%	0.4%	5.3%	1.6%	21.4%	23.6%
81			38		5	1.03	0.00	0.33	0.00	0.58	0.80		100.0%	0.4%	32.5%	0.4%	56.7%	78.1%	0.48	0.00	0.20	0.00	0.29	0.56	54.4%	47.0%	0.3%	19.9%	0.3%	28.2%	54.4%
82			39		5	1.01	0.01	0.04	0.00	0.75	0.51		100.0%	0.7%	4.1%	0.2%	74.1%	50.3%	0.61	0.01	0.02	0.00	0.41	0.39	59.9%	59.9%	0.6%	2.0%	0.1%	40.8%	38.0%
83			40		5	1.07	0.01	0.04	0.00	0.85	0.58		100.0%	0.7%	3.8%	0.2%	78.8%	54.5%	0.63	0.01	0.02	0.00	0.44	0.44	58.3%	58.3%	0.7%	2.0%	0.2%	40.8%	40.8%
84			41		5	0.96	0.01	0.13	0.01	0.46	0.56		100.0%	0.6%	13.5%	1.5%	47.7%	57.7%	0.39	0.01	0.07	0.01	0.13	0.24	40.1%	40.1%	0.5%	6.9%	1.5%	13.5%	24.9%
85			129		1	0.13	0.00	0.01	0.00	0.07	0.17		77.0%	0.6%	6.9%	1.1%	40.2%	100.0%	0.05	0.00	0.01	0.00	0.02	0.08	48.3%	27.0%	0.6%	4.6%	1.1%	13.8%	48.3%
86			131		1	0.18	0.00	0.02	0.00	0.06	0.21		86.5%	0.5%	7.7%	1.9%	26.4%	100.0%	0.05	0.00	0.01	0.00	0.02	0.10	48.1%	24.5%	0.5%	4.8%	1.4%	10.6%	48.1%
87			133		1	0.18	0.00	0.03	0.00	0.05	0.20		90.5%	0.0%	13.1%	1.0%	26.6%	100.0%	0.05	0.00	0.02	0.00	0.02	0.10	49.2%	24.1%	0.0%	8.0%	0.5%	10.6%	49.2%
88			135		1	0.21	0.00	0.03	0.00	0.08	0.19		100.0%	0.5%	16.0%	1.0%	37.4%	90.8%	0.06	0.00	0.02	0.00	0.03	0.10	50.0%	29.6%	0.5%	9.2%	1.0%	16.5%	50.0%
89			137		1	0.16	0.00	0.05	0.00	0.06	0.17		99.4%	0.6%	30.3%	1.2%	35.2%	100.0%	0.05	0.00	0.03	0.00	0.03	0.08	47.9%	30.3%	0.6%	17.6%	1.2%	17.6%	47.9%
90			142		2	0.36	0.00	0.09	0.00	0.10	0.37		95.4%	0.5%	25.3%	0.5%	25.8%	100.0%	0.12	0.00	0.06	0.00	0.05	0.22	57.8%	32.5%	0.5%	15.1%	0.5%	12.1%	57.8%
91			143		2	0.45	0.00	0.05	0.00	0.14	0.44		100.0%	0.4%	10.3%	0.2%	32.3%	99.6%	0.14	0.00	0.03	0.00	0.07	0.28	61.7%	31.4%	0.4%	6.3%	0.2%	14.6%	61.7%
92			144		2	0.41	0.00	0.02	0.00	0.17	0.41		99.8%	0.2%	4.6%	1.0%	42.1%	100.0%	0.13	0.00	0.01	0.00	0.09	0.23	55.7%	32.0%	0.2%	2.2%	0.7%	20.8%	55.7%
93			145		2	0.32	0.00	0.01	0.01	0.12	0.52		60.8%	0.4%	2.3%	2.3%	23.6%	100.0%	0.10	0.00	0.01	0.01	0.05	0.26	48.9%	20.0%	0.4%	1.5%	1.9%	9.8%	48.9%
94			149		2	0.37	0.00	0.05	0.00	0.12	0.37		100.0%	0.5%	12.7%	0.3%	33.0%	100.0%	0.12	0.00	0.03	0.00	0.05	0.21	57.3%	31.6%	0.5%	7.8%	0.3%	13.0%	57.3%
95			150		2	0.39	0.00	0.02	0.01	0.13	0.52		75.9%	0.4%	4.5%	1.2%	25.2%	100.0%	0.13	0.00	0.02	0.01	0.06	0.27	52.8%	25.4%	0.2%	2.9%	1.0%	11.7%	52.8%
96			151		2	0.43	0.00	0.02	0.01	0.10	0.60		71.3%	0.2%	3.8%	1.7%	16.1%	100.0%	0.14	0.00	0.01	0.01	0.04	0.31	50.8%	23.3%	0.2%	2.3%	1.3%	6.6%	50.8%
97			157		5	0.85	0.00	0.42	0.00	0.17	1.00		85.1%	0.4%	42.2%	0.3%	17.0%	100.0%	0.36	0.00	0.25	0.00	0.07	0.50	50.3%	36.2%	0.3%	25.0%	0.2%	6.5%	50.3%
98			158		5	1.03	0.01	0.18	0.01	0.40	0.97		100.0%	0.8%	17.0%	0.5%	38.6%	93.9%	0.44	0.01	0.11	0.00	0.22	0.63	61.6%	42.6%	0.8%	10.8%	0.4%	21.5%	61.6%
99			159		5	1.10	0.00	0.04	0.00	0.35	1.06		100.0%	0.2%	3.4%	0.3%	32.2%	96.6%	0.45	0.00	0.03	0.00	0.18	0.84	76.0%	41.0%	0.2%	2.3%	0.3%	16.1%	76.0%
100			160		5	0.87	0.01	0.06	0.01	0.41	1.31		66.1%	0.7%	4.2%	0.4%	31.4%	100.0%	0.43	0.01	0.03	0.01	0.24	0.78	59.0%	32.5%	0.5%	2.2%	0.4%	18.1%	59.0%
101			161		5	1.05	0.00	0.07	0.04	0.21	1.60		65.5%	0.2%	4.4%	2.7%	13.1%	100.0%	0.38	0.00	0.04	0.04	0.09	0.79	49.6%	23.9%	0.2%	2.5%	2.2%	5.4%	49.6%
102			166		5	0.83	0.01	0.31	0.01	0.28	1.00		82.2%	0.6%	30.9%	0.6%	28.3%	100.0%	0.38	0.01	0.18	0.01	0.16	0.60	59.4%	37.8%	0.6%	18.1%	0.6%	15.8%	59.4%
103			167		5	1.14	0.00	0.05	0.00	0.37	1.02		100.0%	0.4%	4.4%	0.1%	32.1%	89.2%	0.47	0.00	0.03	0.00	0.19	0.80	70.1%	41.3%	0.4%	2.8%	0.1%	16.7%	70.1%
104			168		5	1.09	0.00	0.03	0.01	0.41	1.18		92.8%	0.3%	2.2%	0.6%	34.6%	100.0%	0.48	0.00	0.01	0.01	0.21	0.88	74.2%	40.8%	0.3%	1.1%	0.4%	18.0%	74.2%
105			169		5	0.98	0.01	0.08	0.02	0.31	1.59		61.6%	0.4%	4.9%	1.1%	19.5%	100.0%	0.44	0.01	0.04	0.02	0.16	0.84	52.7%	27.8%	0.3%	2.4%	0.9%	10.3%	52.7%
106			1	129	2	0.54	0.00	0.05	0.01	0.31	0.36		100.0%	0.6%	8.8%	1.1%	56.9%	65.7%	0.24	0.00	0.03	0.00	0.12	0.16	44.6%	44.6%	0.4%	5.5%	0.7%	21.7%	28.9%
107			3	131	2	0.48	0.00	0.04	0.01	0.24	0.43		100.0%	0.6%	8.5%	1.9%	49.0%	88.5%	0.18	0.00	0.03	0.01	0.09	0.23	48.5%	38.1%	0.6%	5.6%	1.5%	19.2%	48.5%
108			5	133	2	0.50	0.00	0.06	0.01	0.23	0.40		100.0%	0.4%	11.4%	1.0%	45.8%	80.3%	0.17	0.00	0.03	0.00	0.09	0.21	43.0%	34.9%	0.4%	6.2%	0.8%	18.1%	43.0%
109			7	135	2	0.50	0.00	0.09	0.00	0.25	0.36		100.0%	0.4%	18.4%	0.8%	49.9%	72.5%	0.18	0.00	0.05	0.00	0.11	0.19	38.6%	35.8%	0.4%	10.5%	0.6%	21.6%	38.6%
110			9	137	2	0.33	0.00	0.09	0.01	0.20	0.37		90.7%	0.8%	25.1%	1.4%	55.6%	100.0%	0.12	0.00	0.04	0.00	0.09	0.18	49.3%	33.8%	0.5%	10.9%	1.1%	24.3%	49.3%
111			14	142	4	0.91	0.00	0.18	0.01	0.42	0.71		100.0%	0.4%	20.1%	1.0%	45.8%	78.4%	0.30	0.00	0.11	0.01	0.17	0.41	44.5%	32.7%	0.4%	12.5%	0.8%	19.0%	44.5%
112			15	143	4	1.01	0.01	0.08	0.00	0.65	0.87		100.0%	0.7%	7.8%	0.2%	64.1%	86.4%	0.51	0.01	0.05	0.00	0.29	0.55	55.1%	51.1%	0.6%	4.8%	0.2%	29.0%	55.1%
113			16	144	4	0.83	0.01	0.05	0.01	0.47	0.59		100.0%	0.6%	5.8%	1.2%	56.1%	71.2%	0.36	0.00	0.03	0.01	0.25	0.34	43.3%	43.3%	0.5%	3.4%	1.0%	30.5%	40.7%
114			17	145	4	0.82	0.01	0.09	0.03	0.50	0.96		85.6%	0.8%	9.2%	2.8%	51.7%	100.0%	0.38	0.01	0.06	0.02	0.23	0.54	56.0%	39.4%	0.8%	6.1%	2.2%	23.4%	56.0%
115			21	149	4	1.07	0.01	0.13	0.00	0.54	0.78		100.0%	0.7%	11.9%	0.3%	50.6%	73.2%	0.45	0.01	0.08	0.00	0.23	0.45	42.0%	41.9%	0.6%	7.3%	0.3%	21.6%	42.0%
116			22	150	4	1.11	0.01	0.05	0.01	0.71	1.03		100.0%	0.5%	4.8%	1.0%	64.6%	93.2%	0.60	0.00	0.04	0.01	0.35	0.59	54.0%	54.0%	0.4%	3.3%	0.8%	31.5%	53.2%
117			23	151	4	0.73	0.01	0.10	0.02	0.31	0.98		74.0%	0.5%	10.3%	2.0%	31.4%	100.0%	0.24	0.00	0.04	0.02	0.13	0.55	56.2%	24.1%	0.4%	4.0%	1.6%	13.7%	56.2%
118			29	157	10	2.00	0.01	0.80	0.01	0.99	2.03		98.3%	0.4%	39.2%	0.4%	48.5%	100.0%	0.71	0.01	0.45	0.01	0.48	1.04	51.3%	34.9%	0.4%	22.0%	0.3%	23.4%	51.3%
119			30	158	10	2.40	0.02	0.48	0.01	1.74	1.95		100.0%	0.9%	20.2%	0.4%	72.5%	81.2%	1.25	0.02	0.27	0.01	0.99	1.33	55.4%	52.2%	0.8%	11.3%	0.3%	41.1%	55.4%
120			31	159	10	2.32	0.02	0.07	0.01	1.58	2.11		100.0%	0.6%	3.1%	0.3%	68.2%	91.2%	1.30	0.01	0.05	0.01	0.87	1.67	71.8%	56.3%	0.6%	2.0%	0.3%	37.6%	71.8%
121			32	160	10	2.83	0.02	0.17	0.01	2.04	2.87		98.7%	0.8%	5.8%	0.3%	71.1%	100.0%	1.49	0.02	0.08	0.01	1.06	1.93	67.2%	51.8%	0.7%	2.8%	0.3%	37.1%	67.2%
122			33	161	10	2.36	0.01	0.27	0.11	1.24	3.41		69.0%	0.3%	8.0%	3.1%	36.4%	100.0%	1.00	0.01	0.11	0.08	0.49	1.68	49.1%	29.3%	0.3%	3.3%	2.3%	14.3%	49.1%
123			38	166	10	2.18	0.02	0.76	0.01	1.34	2.07		100.0%	0.7%	34.6%	0.5%	61.5%	94.8%	0.92	0.01	0.47	0.01	0.76	1.30	59.8%	42.2%	0.6%	21.3%	0.5%	34.7%	59.8%
124			39	167	10	2.35	0.02	0.10	0.00	1.55	1.80		100.0%	0.8%	4.2%	0.1%	65.7%	76.6%	1.31	0.02	0.05	0.00	0.85	1.38	58.7%	55.8%	0.6%	2.2%	0.1%	36.2%	58.7%
125			40	168	10	2.66	0.02	0.08	0.01	1.96	2.60		100.0%	0.6%	3.1%	0.5%	73.8%	97.9%	1.51	0.02	0.05	0.01	1.04	1.95	73.5%	56.6%	0.6%	1.8%	0.4%	39.2%	73.5%
126			41	169	10	2.10	0.01	0.27	0.06	1.01	3.11		67.6%	0.4%	8.7%	1.9%	32.4%	100.0%	0.88	0.01	0.13	0.05	0.43	1.58	50.7%	28.2%	0.4%	4.1%	1.5%	13.8%	50.7%

- K–patch Mid CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	1.3%	40.0%	2.8%	82.6%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.6%	58.2%	1.1%	23.8%	2.3%	44.8%	70.6%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fomt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.25	0.00	0.02	0.00	0.15	0.13		100.0%	0.4%	7.2%	0.4%	61.0%	53.4%	0.11	0.00	0.01	0.00	0.06	0.07	44.6%	44.6%	0.4%	4.8%	0.4%	22.5%	28.9%
65			3		1	0.24	0.00	0.02	0.00	0.13	0.10		100.0%	0.4%	9.0%	0.4%	54.5%	41.4%	0.09	0.00	0.01	0.00	0.04	0.05	34.8%	34.8%	0.4%	5.7%	0.4%	17.2%	20.9%
66			5		1	0.30	0.00	0.03	0.00	0.15	0.09		100.0%	0.3%	10.2%	0.3%	48.4%	30.6%	0.09	0.00	0.02	0.00	0.05	0.05	28.9%	28.9%	0.3%	5.9%	0.3%	16.8%	17.8%
67			7		1	0.21	0.00	0.03	0.00	0.12	0.10		100.0%	0.5%	13.7%	0.5%	57.6%	48.8%	0.06	0.00	0.02	0.00	0.04	0.05	30.7%	30.7%	0.0%	7.8%	0.5%	18.5%	23.9%
68			9		1	0.14	0.00	0.04	0.00	0.11	0.13		100.0%	0.7%	29.2%	0.7%	75.7%	88.9%	0.06	0.00	0.02	0.00	0.04	0.07	45.1%	41.0%	0.7%	12.5%	0.7%	27.1%	45.1%
69			14		2	0.50	0.00	0.08	0.00	0.25	0.24		100.0%	0.4%	16.3%	0.6%	50.3%	48.3%	0.18	0.00	0.05	0.00	0.09	0.14	35.4%	35.4%	0.4%	10.5%	0.4%	17.3%	29.0%
70			15		2	0.46	0.00	0.02	0.00	0.29	0.22		100.0%	0.4%	4.8%	0.2%	64.5%	48.5%	0.24	0.00	0.01	0.00	0.13	0.15	52.6%	52.6%	0.4%	2.9%	0.0%	29.2%	33.3%
71			16		2	0.47	0.00	0.02	0.00	0.32	0.21		100.0%	0.4%	5.1%	0.4%	68.9%	43.6%	0.25	0.00	0.02	0.00	0.15	0.12	53.0%	53.0%	0.4%	3.2%	0.4%	31.9%	26.4%
72			17		2	0.53	0.00	0.06	0.00	0.25	0.15		100.0%	0.6%	11.8%	0.8%	47.4%	28.7%	0.19	0.00	0.04	0.00	0.09	0.07	35.5%	35.5%	0.6%	7.4%	0.6%	17.1%	13.7%
73			21		2	0.49	0.00	0.05	0.00	0.28	0.29		100.0%	0.4%	10.7%	0.4%	57.0%	59.7%	0.23	0.00	0.04	0.00	0.11	0.18	46.7%	46.7%	0.4%	7.2%	0.2%	23.0%	36.6%
74			22		2	0.46	0.00	0.01	0.00	0.33	0.20		100.0%	0.4%	2.2%	0.2%	71.9%	42.9%	0.26	0.00	0.01	0.00	0.16	0.13	56.3%	56.3%	0.4%	1.3%	0.2%	34.0%	27.3%
75			23		2	0.33	0.00	0.05	0.00	0.17	0.24		100.0%	0.6%	15.0%	1.2%	53.2%	71.9%	0.12	0.00	0.02	0.00	0.07	0.12	37.0%	35.5%	0.6%	6.4%	1.2%	20.2%	37.0%
76			29		5	0.99	0.00	0.28	0.00	0.63	0.69		100.0%	0.3%	28.1%	0.3%	63.8%	69.4%	0.41	0.00	0.18	0.00	0.28	0.38	41.7%	41.7%	0.3%	18.3%	0.3%	28.4%	38.6%
77			30		5	0.95	0.01	0.17	0.00	0.66	0.62		100.0%	0.6%	17.6%	0.4%	69.5%	65.3%	0.55	0.01	0.09	0.00	0.33	0.45	58.0%	58.0%	0.5%	9.9%	0.3%	34.7%	46.6%
78			31		5	1.05	0.01	0.05	0.00	0.80	0.45		100.0%	1.0%	4.9%	0.1%	75.7%	43.0%	0.61	0.01	0.02	0.00	0.46	0.35	58.2%	58.2%	1.0%	2.3%	0.1%	44.0%	33.7%
79			32		5	1.00	0.01	0.05	0.00	0.76	0.57		100.0%	0.8%	4.9%	0.2%	75.5%	56.5%	0.55	0.01	0.03	0.00	0.39	0.38	55.3%	55.3%	0.7%	2.9%	0.2%	39.0%	38.2%
80			33		5	1.20	0.01	0.10	0.02	0.60	0.56		100.0%	0.4%	8.2%	1.4%	50.0%	46.4%	0.53	0.00	0.05	0.02	0.26	0.27	44.4%	44.4%	0.3%	4.0%	1.3%	21.3%	22.8%
81			38		5	0.99	0.01	0.31	0.01	0.60	0.79		100.0%	0.5%	30.9%	0.5%	60.5%	79.7%	0.49	0.00	0.19	0.00	0.29	0.53	54.2%	49.7%	0.4%	19.3%	0.4%	29.1%	54.2%
82			39		5	0.97	0.01	0.05	0.00	0.71	0.48		100.0%	0.9%	5.4%	0.1%	72.7%	49.8%	0.56	0.01	0.03	0.00	0.40	0.38	58.0%	58.0%	0.8%	2.7%	0.1%	41.1%	38.6%
83			40		5	1.09	0.01	0.05	0.00	0.85	0.49		100.0%	0.8%	4.1%	0.2%	78.0%	45.3%	0.63	0.01	0.02	0.00	0.48	0.37	58.1%	58.1%	0.7%	2.1%	0.2%	44.4%	33.8%
84			41		5	1.06	0.01	0.10	0.02	0.49	0.54		100.0%	0.6%	8.9%	1.7%	45.6%	50.7%	0.44	0.01	0.06	0.02	0.16	0.22	41.5%	41.5%	0.5%	5.9%	1.4%	14.9%	20.9%
85			129		1	0.14	0.00	0.01	0.00	0.09	0.18		77.1%	0.6%	7.8%	1.7%	48.0%	100.0%	0.04	0.00	0.01	0.00	0.03	0.09	51.4%	24.6%	0.6%	5.6%	1.1%	16.8%	51.4%
86			131		1	0.18	0.00	0.02	0.01	0.06	0.19		95.7%	0.5%	9.1%	2.7%	32.3%	100.0%	0.05	0.00	0.01	0.00	0.02	0.09	47.8%	26.9%	0.5%	5.9%	2.2%	12.4%	47.8%
87			133		1	0.19	0.00	0.03	0.00	0.07	0.17		100.0%	0.5%	13.4%	1.0%	35.1%	89.2%	0.06	0.00	0.02	0.00	0.03	0.08	42.3%	28.9%	0.5%	8.2%	0.5%	13.9%	42.3%
88			135		1	0.21	0.00	0.03	0.00	0.08	0.18		100.0%	0.5%	13.9%	1.0%	37.0%	88.0%	0.06	0.00	0.02	0.00	0.03	0.09	40.9%	30.8%	0.5%	8.2%	1.0%	15.9%	40.9%
89			137		1	0.17	0.00	0.05	0.00	0.06	0.17		98.8%	0.6%	26.5%	1.2%	37.6%	100.0%	0.05	0.00	0.03	0.00	0.03	0.08	47.6%	30.0%	0.6%	15.9%	1.2%	17.1%	47.6%
90			142		2	0.37	0.00	0.10	0.00	0.10	0.37		98.9%	0.5%	25.9%	0.5%	27.5%	100.0%	0.12	0.00	0.06	0.00	0.05	0.21	55.3%	33.2%	0.5%	15.1%	0.5%	12.1%	55.3%
91			143		2	0.44	0.00	0.05	0.00	0.16	0.37		100.0%	0.5%	11.9%	0.5%	37.1%	83.8%	0.16	0.00	0.03	0.00	0.08	0.22	49.2%	36.4%	0.5%	7.8%	0.5%	17.2%	49.2%
92			144		2	0.41	0.00	0.02	0.00	0.17	0.46		87.7%	0.4%	3.5%	0.6%	37.6%	100.0%	0.13	0.00	0.01	0.00	0.08	0.24	52.3%	27.6%	0.4%	1.7%	0.6%	17.1%	52.3%
93			145		2	0.35	0.00	0.01	0.01	0.14	0.57		61.9%	0.5%	2.5%	2.3%	25.0%	100.0%	0.11	0.00	0.01	0.01	0.06	0.29	51.5%	18.9%	0.4%	1.8%	1.9%	10.1%	51.5%
94			149		2	0.36	0.00	0.05	0.00	0.14	0.31		100.0%	0.6%	14.3%	0.8%	40.4%	88.2%	0.12	0.00	0.03	0.00	0.05	0.16	44.9%	33.7%	0.6%	9.6%	0.6%	14.6%	44.9%
95			150		2	0.36	0.00	0.02	0.01	0.14	0.49		72.6%	0.4%	3.9%	1.0%	28.2%	100.0%	0.11	0.00	0.01	0.00	0.06	0.27	54.6%	23.1%	0.4%	2.8%	0.8%	12.8%	54.6%
96			151		2	0.45	0.00	0.03	0.01	0.12	0.55		80.7%	0.2%	5.8%	1.6%	22.4%	100.0%	0.13	0.00	0.02	0.01	0.05	0.27	48.9%	24.0%	0.2%	4.0%	1.4%	9.2%	48.9%
97			157		5	0.88	0.01	0.44	0.00	0.21	1.09		80.8%	0.6%	40.0%	0.4%	19.0%	100.0%	0.36	0.01	0.26	0.00	0.07	0.56	51.1%	33.4%	0.5%	23.8%	0.3%	6.5%	51.1%
98			158		5	0.98	0.01	0.17	0.01	0.42	0.80		100.0%	1.0%	17.1%	0.6%	42.7%	81.6%	0.41	0.01	0.09	0.01	0.23	0.55	55.5%	41.6%	0.9%	9.6%	0.5%	23.1%	55.5%
99			159		5	1.04	0.00	0.03	0.00	0.41	0.87		100.0%	0.3%	3.3%	0.3%	39.4%	83.3%	0.42	0.00	0.02	0.00	0.21	0.66	63.1%	40.0%	0.3%	2.3%	0.3%	19.9%	63.1%
100			160		5	0.85	0.01	0.05	0.01	0.42	1.40		60.6%	0.6%	3.6%	0.4%	30.3%	100.0%	0.42	0.01	0.02	0.01	0.24	0.86	61.6%	30.2%	0.5%	1.6%	0.4%	17.1%	61.6%
101			161		5	1.01	0.00	0.05	0.03	0.24	1.62		62.3%	0.2%	2.8%	2.1%	14.5%	100.0%	0.42	0.00	0.02	0.03	0.10	0.82	50.7%	25.9%	0.2%	1.4%	1.7%	6.4%	50.7%
102			166		5	0.82	0.01	0.28	0.01	0.28	0.95		86.0%	0.9%	29.2%	0.9%	29.2%	100.0%	0.40	0.01	0.17	0.01	0.15	0.58	61.3%	41.7%	0.7%	17.9%	0.8%	15.6%	61.3%
103			167		5	1.10	0.00	0.05	0.00	0.43	0.80		100.0%	0.4%	4.4%	0.1%	39.1%	72.7%	0.44	0.00	0.03	0.00	0.22	0.61	55.3%	40.1%	0.4%	2.6%	0.1%	20.2%	55.3%
104			168		5	1.05	0.00	0.03	0.00	0.46	1.00		100.0%	0.4%	3.1%	0.4%	43.8%	95.6%	0.42	0.00	0.02	0.00	0.25	0.74	70.6%	40.3%	0.4%	1.4%	0.3%	23.5%	70.6%
105			169		5	0.97	0.01	0.05	0.02	0.32	1.70		57.0%	0.4%	3.2%	1.0%	18.6%	100.0%	0.45	0.01	0.03	0.01	0.16	0.94	55.2%	26.6%	0.4%	1.7%	0.8%	9.6%	55.2%
106			1	129	2	0.51	0.00	0.05	0.01	0.33	0.37		100.0%	0.6%	10.5%	1.2%	65.0%	71.0%	0.22	0.00	0.03	0.01	0.13	0.16	42.8%	42.8%	0.6%	6.6%	1.0%	24.9%	30.4%
107			3	131	2	0.47	0.00	0.05	0.01	0.22	0.36		100.0%	0.6%	9.5%	1.9%	47.3%	75.3%	0.17	0.00	0.03	0.01	0.08	0.18	38.4%	35.2%	0.6%	6.5%	1.7%	17.5%	38.4%
108			5	133	2	0.58	0.00	0.05	0.00	0.25	0.36		100.0%	0.3%	9.2%	0.7%	43.8%	61.6%	0.19	0.00	0.03	0.00	0.10	0.18	32.0%	32.0%	0.3%	5.9%	0.5%	17.6%	31.1%
109			7	135	2	0.51	0.00	0.07	0.00	0.24	0.34		100.0%	0.4%	14.2%	0.8%	47.6%	66.9%	0.17	0.00	0.04	0.00	0.10	0.19	36.6%	33.7%	0.4%	7.7%	0.8%	19.9%	36.6%
110			9	137	2	0.38	0.00	0.09	0.00	0.24	0.38		98.4%	0.5%	23.6%	1.0%	63.1%	100.0%	0.13	0.00	0.04	0.00	0.10	0.19	49.2%	34.6%	0.5%	11.5%	0.8%	27.0%	49.2%
111			14	142	4	0.89	0.01	0.18	0.01	0.39	0.70		100.0%	0.6%	20.5%	0.8%	44.0%	78.8%	0.32	0.00	0.10	0.01	0.16	0.37	41.6%	36.2%	0.5%	11.7%	0.7%	18.3%	41.6%
112			15	143	4	0.90	0.01	0.08	0.00	0.63	0.72		100.0%	0.8%	9.0%	0.3%	69.4%	79.3%	0.48	0.01	0.05	0.00	0.30	0.44	52.8%	52.8%	0.8%	5.4%	0.2%	32.8%	48.7%
113			16	144	4	0.83	0.01	0.05	0.01	0.45	0.69		100.0%	1.1%	5.7%	0.8%	55.0%	83.2%	0.33	0.01	0.03	0.01	0.24	0.40	48.1%	40.2%	1.0%	3.3%	0.7%	28.8%	48.1%
114			17	145	4	0.84	0.01	0.10	0.03	0.50	0.99		84.9%	0.6%	10.5%	2.8%	50.0%	100.0%	0.35	0.01	0.07	0.02	0.22	0.54	54.9%	35.4%	0.6%	7.2%	2.3%	22.2%	54.9%
115			21	149	4	0.99	0.01	0.14	0.01	0.55	0.73		100.0%	0.7%	13.7%	0.6%	55.6%	74.1%	0.42	0.01	0.08	0.01	0.23	0.37	42.2%	42.2%	0.7%	8.4%	0.5%	23.0%	37.6%
116			22	150	4	1.02	0.01	0.05	0.01	0.68	0.95		100.0%	0.5%	4.7%	0.9%	66.0%	93.0%	0.53	0.01	0.04	0.01	0.35	0.52	51.7%	51.7%	0.5%	3.5%	0.7%	33.8%	50.6%
117			23	151	4	0.69	0.00	0.09	0.02	0.34	0.91		75.7%	0.4%	10.4%	2.2%	37.2%	100.0%	0.23	0.00	0.04	0.02	0.17	0.50	54.9%	25.6%	0.3%	4.6%	1.8%	18.3%	54.9%
118			29	157	10	2.10	0.01	0.75	0.01	1.14	2.05		100.0%	0.5%	35.7%	0.5%	54.5%	97.9%	0.78	0.01	0.42	0.01	0.55	1.05	50.0%	37.2%	0.4%	20.0%	0.4%	26.2%	50.0%
119			30	158	10	2.09	0.03	0.41	0.01	1.73	1.74		100.0%	1.2%	19.5%	0.5%	82.6%	83.2%	1.17	0.02	0.26	0.01	0.94	1.14	55.7%	55.7%	1.1%	12.3%	0.4%	44.8%	54.5%
120			31	159	10	2.27	0.02	0.10	0.01	1.58	1.67		100.0%	1.1%	4.2%	0.3%	69.5%	73.5%	1.32	0.02	0.06	0.01	0.89	1.33	58.6%	58.0%	1.0%	2.4%	0.2%	39.2%	58.6%
121			32	160	10	2.61	0.02	0.16	0.01	2.03	2.79		93.5%	0.7%	5.8%	0.3%	72.6%	100.0%	1.37	0.02	0.08	0.01	1.10	1.91	68.4%	49.2%	0.6%	2.8%	0.3%	39.6%	68.4%
122			33	161	10	2.64	0.01	0.22	0.08	1.33	3.26		80.8%	0.3%	6.7%	2.5%	40.8%	100.0%	1.07	0.01	0.09	0.07	0.58	1.66	50.8%	32.7%	0.3%	2.7%	2.0%	17.9%	50.8%
123			38	166	10	1.97	0.03	0.66	0.02	1.27	1.93		100.0%	1.3%	33.5%	0.8%	64.3%	97.6%	0.90	0.02	0.40	0.01	0.69	1.18	59.7%	45.4%	1.1%	20.3%	0.6%	34.8%	59.7%
124			39	167	10	2.19	0.03	0.12	0.00	1.48	1.43		100.0%	1.1%	5.5%	0.1%	67.4%	65.1%	1.24	0.02	0.07	0.00	0.84	1.10	56.5%	56.5%	1.0%	3.1%	0.1%	38.5%	50.3%
125			40	168	10	2.74	0.02	0.08	0.01	2.05	2.19		100.0%	0.6%	2.8%	0.4%	74.8%	80.0%	1.55	0.02	0.05	0.01	1.18	1.69	61.5%	56.6%	0.6%	1.8%	0.3%	43.1%	61.5%
126			41	169	10	2.25	0.02	0.21	0.05	1.10	3.00		74.9%	0.5%	7.0%	1.7%	36.8%	100.0%	0.92	0.01	0.10	0.04	0.47	1.62	53.9%	30.7%	0.4%	3.3%	1.4%	15.7%	53.9%

- K–patch High CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	1.5%	37.7%	2.4%	82.5%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						69.7%	58.8%	1.3%	23.0%	2.4%	44.5%	69.7%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.24**	0.00	0.02	0.00	0.15	0.12		100.0%	0.4%	8.1%	0.4%	62.6%	49.4%	**0.11**	0.00	0.01	0.00	0.06	0.06	45.1%	45.1%	0.4%	5.5%	0.4%	23.8%	27.2%
65			3		1	**0.22**	0.00	0.02	0.00	0.13	0.09		100.0%	0.5%	10.9%	0.5%	57.0%	40.3%	**0.08**	0.00	0.01	0.00	0.04	0.05	36.7%	36.7%	0.5%	6.3%	0.5%	18.6%	22.6%
66			5		1	**0.29**	0.00	0.02	0.00	0.14	0.10		100.0%	0.3%	8.4%	0.3%	48.8%	33.8%	**0.09**	0.00	0.02	0.00	0.05	0.05	32.4%	32.4%	0.3%	5.2%	0.3%	16.7%	16.7%
67			7		1	**0.18**	0.00	0.03	0.00	0.11	0.10		100.0%	0.6%	13.8%	0.6%	60.8%	54.1%	**0.06**	0.00	0.01	0.00	0.04	0.05	33.1%	33.1%	0.6%	7.7%	0.6%	20.4%	28.2%
68			9		1	**0.14**	0.00	0.04	0.00	0.11	0.12		100.0%	0.7%	27.3%	0.7%	81.3%	86.3%	0.06	0.00	0.02	0.00	0.04	**0.06**	46.0%	44.6%	0.7%	12.2%	0.7%	29.5%	46.0%
69			14		2	**0.44**	0.00	0.06	0.00	0.23	0.21		100.0%	0.5%	13.5%	0.7%	50.9%	47.5%	**0.17**	0.00	0.04	0.00	0.08	0.13	37.8%	37.8%	0.5%	8.8%	0.7%	17.6%	29.7%
70			15		2	**0.43**	0.00	0.02	0.00	0.28	0.21		100.0%	0.5%	5.6%	0.2%	66.2%	49.4%	**0.23**	0.00	0.02	0.00	0.13	0.14	53.1%	53.1%	0.5%	3.7%	0.0%	30.5%	33.3%
71			16		2	**0.44**	0.00	0.03	0.00	0.30	0.18		100.0%	0.7%	5.7%	0.5%	67.4%	39.8%	**0.23**	0.00	0.02	0.00	0.14	0.10	52.5%	52.5%	0.5%	3.4%	0.5%	31.9%	21.7%
72			17		2	**0.50**	0.00	0.05	0.00	0.24	0.16		100.0%	0.4%	9.0%	0.6%	47.3%	32.7%	**0.19**	0.00	0.03	0.00	0.09	0.08	37.7%	37.7%	0.4%	5.8%	0.4%	17.8%	15.8%
73			21		2	**0.45**	0.00	0.05	0.00	0.27	0.28		100.0%	0.4%	11.9%	0.2%	60.4%	61.5%	**0.22**	0.00	0.04	0.00	0.12	0.17	49.0%	49.0%	0.4%	7.8%	0.2%	26.2%	37.6%
74			22		2	**0.43**	0.00	0.01	0.00	0.31	0.17		100.0%	0.5%	2.8%	0.5%	70.4%	39.7%	**0.24**	0.00	0.01	0.00	0.15	0.10	54.7%	54.7%	0.5%	1.6%	0.2%	33.5%	23.6%
75			23		2	**0.28**	0.00	0.04	0.00	0.17	0.21		100.0%	0.7%	13.9%	1.4%	59.4%	73.3%	0.10	0.00	0.02	0.00	0.07	**0.11**	40.2%	35.6%	0.7%	6.8%	1.1%	23.1%	40.2%
76			29		5	**0.84**	0.00	0.24	0.00	0.52	0.58		100.0%	0.4%	28.1%	0.5%	62.5%	69.3%	0.34	0.00	0.15	0.00	0.24	**0.35**	41.8%	40.6%	0.4%	17.4%	0.4%	28.6%	41.8%
77			30		5	**0.93**	0.01	0.15	0.00	0.68	0.60		100.0%	1.0%	15.6%	0.3%	73.1%	64.7%	**0.55**	0.01	0.08	0.00	0.35	0.42	58.7%	58.7%	0.9%	8.4%	0.2%	37.2%	45.6%
78			31		5	**1.04**	0.01	0.06	0.00	0.79	0.40		100.0%	1.1%	5.3%	0.3%	75.4%	38.6%	**0.60**	0.01	0.03	0.00	0.44	0.33	57.4%	57.4%	1.0%	2.5%	0.2%	42.4%	31.3%
79			32		5	**0.94**	0.01	0.05	0.00	0.69	0.50		100.0%	0.9%	5.1%	0.3%	72.9%	53.0%	**0.51**	0.01	0.03	0.00	0.36	0.34	53.7%	53.7%	0.9%	2.8%	0.3%	38.3%	36.3%
80			33		5	**1.14**	0.00	0.08	0.01	0.55	0.55		100.0%	0.3%	7.0%	1.2%	48.2%	48.1%	**0.48**	0.00	0.04	0.01	0.27	0.30	42.1%	42.1%	0.2%	3.8%	1.0%	23.5%	26.2%
81			38		5	**0.93**	0.01	0.27	0.00	0.60	0.74		100.0%	0.8%	28.9%	0.4%	64.5%	79.0%	0.48	0.01	0.16	0.00	0.29	**0.50**	53.3%	51.6%	0.6%	17.3%	0.3%	31.3%	53.3%
82			39		5	**0.92**	0.01	0.05	0.00	0.70	0.45		100.0%	1.0%	5.4%	0.2%	75.3%	48.3%	**0.54**	0.01	0.03	0.00	0.38	0.35	58.8%	58.8%	0.9%	3.0%	0.1%	40.7%	37.4%
83			40		5	**1.00**	0.01	0.04	0.00	0.76	0.45		100.0%	0.9%	4.0%	0.3%	76.1%	44.4%	**0.58**	0.01	0.02	0.00	0.44	0.34	57.6%	57.6%	0.8%	2.0%	0.2%	44.1%	33.9%
84			41		5	**1.01**	0.00	0.08	0.02	0.45	0.54		100.0%	0.4%	7.9%	1.6%	44.6%	53.6%	**0.41**	0.00	0.06	0.01	0.17	0.24	40.7%	40.7%	0.4%	5.8%	1.3%	16.8%	23.3%
85			129		1	0.14	0.00	0.01	0.00	0.09	**0.17**		79.4%	0.6%	6.5%	2.4%	51.2%	100.0%	0.04	0.00	0.01	0.00	0.03	**0.09**	52.4%	24.7%	0.6%	4.7%	2.4%	18.8%	52.4%
86			131		1	**0.18**	0.00	0.02	0.00	0.06	0.18		100.0%	0.6%	9.0%	2.2%	35.4%	98.9%	0.05	0.00	0.01	0.00	0.02	**0.09**	47.8%	29.8%	0.6%	6.2%	1.7%	12.9%	47.8%
87			133		1	**0.20**	0.00	0.03	0.00	0.07	0.16		100.0%	0.5%	13.5%	1.0%	36.0%	81.0%	0.06	0.00	0.02	0.00	0.03	**0.07**	37.0%	31.0%	0.5%	8.5%	0.5%	14.0%	37.0%
88			135		1	**0.21**	0.00	0.03	0.00	0.08	0.18		100.0%	0.5%	14.8%	1.0%	36.2%	86.2%	0.06	0.00	0.02	0.00	0.03	**0.08**	37.1%	30.5%	0.5%	8.6%	1.0%	15.7%	37.1%
89			137		1	**0.18**	0.00	0.04	0.00	0.07	0.17		100.0%	0.6%	24.4%	1.1%	38.1%	94.9%	0.05	0.00	0.02	0.00	0.03	**0.08**	47.7%	30.1%	0.6%	13.6%	1.1%	16.5%	47.7%
90			142		2	**0.38**	0.00	0.10	0.00	0.11	0.37		100.0%	0.5%	26.1%	0.5%	27.7%	97.1%	0.12	0.00	0.06	0.00	0.05	**0.21**	54.6%	32.7%	0.3%	15.0%	0.5%	11.9%	54.6%
91			143		2	**0.43**	0.00	0.05	0.00	0.17	0.33		100.0%	0.5%	11.5%	0.5%	38.6%	76.1%	0.17	0.00	0.03	0.00	0.08	**0.19**	43.8%	39.6%	0.5%	7.5%	0.2%	18.0%	43.8%
92			144		2	0.42	0.00	0.02	0.00	0.18	**0.47**		88.7%	0.4%	3.4%	0.9%	37.4%	100.0%	0.13	0.00	0.01	0.00	0.08	**0.25**	52.8%	27.8%	0.4%	1.7%	0.6%	17.9%	52.8%
93			145		2	0.34	0.00	0.01	0.01	0.16	**0.54**		62.8%	0.4%	2.4%	2.4%	29.2%	100.0%	0.11	0.00	0.01	0.01	0.06	**0.29**	53.6%	20.0%	0.4%	1.9%	2.1%	11.6%	53.6%
94			149		2	**0.35**	0.00	0.04	0.00	0.14	0.30		100.0%	0.6%	12.8%	0.9%	41.7%	86.4%	0.12	0.00	0.03	0.00	0.05	**0.15**	42.6%	35.9%	0.6%	8.7%	0.6%	15.7%	42.6%
95			150		2	0.33	0.00	0.02	0.00	0.15	**0.43**		76.1%	0.2%	3.9%	0.9%	33.9%	100.0%	0.10	0.00	0.01	0.00	0.07	**0.25**	58.7%	24.1%	0.2%	2.6%	0.7%	15.3%	58.7%
96			151		2	0.43	0.00	0.04	0.01	0.14	**0.51**		84.9%	0.2%	6.9%	1.6%	27.1%	100.0%	0.13	0.00	0.02	0.01	0.06	**0.25**	48.0%	24.9%	0.2%	4.3%	1.2%	11.2%	48.0%
97			157		5	0.87	0.00	0.41	0.00	0.19	**1.10**		78.9%	0.3%	37.7%	0.4%	17.0%	100.0%	0.36	0.00	0.25	0.00	0.08	**0.57**	52.1%	32.9%	0.3%	23.0%	0.3%	7.6%	52.1%
98			158		5	**0.94**	0.01	0.16	0.01	0.38	0.73		100.0%	1.0%	17.5%	0.6%	40.9%	78.0%	0.39	0.01	0.09	0.01	0.20	**0.50**	52.8%	41.8%	0.9%	9.2%	0.5%	21.6%	52.8%
99			159		5	**1.02**	0.00	0.02	0.00	0.45	0.71		100.0%	0.3%	2.3%	0.4%	43.9%	69.8%	0.46	0.00	0.02	0.00	0.23	**0.53**	51.5%	45.3%	0.3%	1.6%	0.4%	22.0%	51.5%
100			160		5	0.86	0.01	0.05	0.01	0.43	**1.36**		62.9%	0.5%	3.9%	0.4%	31.7%	100.0%	0.41	0.01	0.02	0.01	0.25	**0.85**	62.1%	29.8%	0.4%	1.5%	0.4%	18.5%	62.1%
101			161		5	0.95	0.00	0.04	0.03	0.24	**1.54**		61.9%	0.3%	2.6%	2.2%	15.6%	100.0%	0.41	0.00	0.02	0.03	0.11	**0.78**	50.8%	26.8%	0.2%	1.4%	1.8%	7.2%	50.8%
102			166		5	0.82	0.01	0.25	0.01	0.26	**0.91**		90.1%	0.9%	27.7%	1.0%	28.4%	100.0%	0.40	0.01	0.16	0.01	0.12	**0.57**	62.6%	44.4%	0.8%	17.1%	0.9%	13.3%	62.6%
103			167		5	**1.10**	0.00	0.04	0.00	0.48	0.67		100.0%	0.3%	3.5%	0.2%	43.3%	61.1%	**0.50**	0.00	0.02	0.00	0.24	0.48	45.0%	45.0%	0.3%	2.2%	0.1%	21.9%	43.9%
104			168		5	**1.02**	0.01	0.04	0.01	0.48	0.87		100.0%	0.5%	3.9%	0.5%	47.6%	85.2%	0.42	0.01	0.02	0.00	0.27	**0.64**	62.9%	41.7%	0.5%	1.6%	0.4%	26.5%	62.9%
105			169		5	0.94	0.01	0.04	0.02	0.31	**1.64**		57.3%	0.4%	2.6%	1.0%	19.1%	100.0%	0.44	0.01	0.02	0.01	0.17	**0.92**	56.1%	26.8%	0.3%	1.2%	0.8%	10.1%	56.1%
106			1	129	2	**0.50**	0.00	0.05	0.01	0.33	0.34		100.0%	0.8%	10.3%	1.8%	66.4%	67.8%	**0.21**	0.00	0.03	0.01	0.14	0.15	42.7%	42.7%	0.6%	6.6%	1.4%	27.2%	29.4%
107			3	131	2	**0.47**	0.00	0.05	0.01	0.22	0.32		100.0%	0.6%	11.0%	1.5%	46.5%	66.9%	**0.16**	0.00	0.03	0.01	0.08	0.15	34.8%	34.8%	0.6%	7.0%	1.3%	16.3%	31.8%
108			5	133	2	**0.58**	0.00	0.05	0.00	0.26	0.35		100.0%	0.3%	8.4%	0.5%	44.8%	59.9%	**0.20**	0.00	0.03	0.00	0.10	0.18	34.1%	34.1%	0.3%	4.8%	0.5%	17.7%	30.8%
109			7	135	2	**0.48**	0.00	0.07	0.00	0.22	0.34		100.0%	0.4%	14.1%	0.8%	47.1%	70.8%	0.16	0.00	0.04	0.00	0.10	**0.19**	38.9%	33.8%	0.4%	7.4%	0.8%	20.0%	38.9%
110			9	137	2	**0.38**	0.00	0.07	0.00	0.24	0.35		100.0%	0.8%	19.7%	0.8%	64.6%	93.1%	0.13	0.00	0.04	0.00	0.10	**0.17**	45.7%	34.6%	0.5%	9.8%	0.8%	26.1%	45.7%
111			14	142	4	**0.83**	0.01	0.17	0.01	0.37	0.64		100.0%	0.6%	20.8%	1.0%	44.8%	77.6%	0.32	0.01	0.10	0.01	0.16	**0.34**	41.4%	38.3%	0.6%	12.0%	0.8%	19.3%	41.4%
112			15	143	4	**0.88**	0.01	0.08	0.00	0.59	0.63		100.0%	0.8%	9.1%	0.5%	67.4%	71.4%	**0.43**	0.01	0.05	0.00	0.28	0.37	49.1%	49.1%	0.7%	5.7%	0.3%	32.2%	41.7%
113			16	144	4	**0.83**	0.01	0.05	0.01	0.42	0.65		100.0%	1.0%	5.7%	1.0%	50.5%	78.0%	0.29	0.01	0.02	0.01	0.22	**0.39**	46.4%	35.3%	0.8%	2.9%	0.7%	27.0%	46.4%
114			17	145	4	0.83	0.01	0.08	0.02	0.49	**0.96**		87.2%	0.5%	8.1%	2.4%	51.0%	100.0%	0.33	0.01	0.05	0.02	0.22	**0.53**	54.9%	34.2%	0.5%	5.4%	2.0%	22.5%	54.9%
115			21	149	4	**0.92**	0.01	0.14	0.01	0.55	0.69		100.0%	0.7%	15.1%	0.8%	59.4%	74.9%	**0.42**	0.01	0.09	0.01	0.23	0.35	45.0%	45.0%	0.5%	9.4%	0.7%	24.5%	37.7%
116			22	150	4	**1.01**	0.01	0.04	0.01	0.66	0.83		100.0%	0.6%	4.3%	0.8%	65.9%	82.1%	**0.50**	0.01	0.03	0.01	0.35	0.44	50.1%	50.1%	0.5%	3.0%	0.7%	34.3%	43.2%
117			23	151	4	0.66	0.00	0.09	0.02	0.33	**0.82**		79.9%	0.5%	10.5%	1.8%	40.2%	100.0%	0.22	0.00	0.04	0.01	0.17	**0.44**	53.1%	26.6%	0.4%	5.1%	1.5%	20.1%	53.1%
118			29	157	10	**2.00**	0.01	0.63	0.02	1.14	1.84		100.0%	0.5%	31.4%	0.8%	57.1%	91.8%	0.67	0.01	0.38	0.01	0.55	**0.98**	49.1%	33.5%	0.4%	18.8%	0.6%	27.6%	49.1%
119			30	158	10	**1.98**	0.03	0.32	0.02	1.63	1.63		100.0%	1.4%	16.2%	0.8%	82.5%	82.6%	**1.08**	0.03	0.20	0.01	0.88	1.06	54.7%	54.7%	1.3%	10.0%	0.6%	44.5%	53.7%
120			31	159	10	**2.32**	0.02	0.09	0.01	1.56	1.34		100.0%	1.0%	3.8%	0.4%	67.2%	57.7%	**1.31**	0.02	0.05	0.01	0.87	1.08	56.7%	56.7%	1.0%	1.9%	0.3%	37.5%	46.5%
121			32	160	10	2.52	0.02	0.16	0.01	1.93	**2.57**		98.2%	0.8%	6.1%	0.5%	75.2%	100.0%	1.30	0.02	0.07	0.01	1.09	**1.79**	69.7%	50.8%	0.7%	2.9%	0.4%	42.6%	69.7%
122			33	161	10	2.65	0.01	0.17	0.06	1.31	**3.04**		87.3%	0.3%	5.7%	2.1%	43.1%	100.0%	1.03	0.01	0.08	0.05	0.62	**1.56**	51.4%	33.8%	0.3%	2.6%	1.6%	20.3%	51.4%
123			38	166	10	**1.86**	0.03	0.58	0.02	1.20	1.82		100.0%	1.5%	31.2%	1.0%	64.6%	97.6%	0.91	0.03	0.34	0.01	0.61	**1.13**	60.7%	48.9%	1.3%	18.2%	0.7%	32.9%	60.7%
124			39	167	10	**2.12**	0.02	0.11	0.00	1.42	1.22		100.0%	1.0%	5.0%	0.2%	66.7%	57.4%	**1.19**	0.02	0.06	0.00	0.78	0.91	56.1%	56.1%	1.0%	2.9%	0.2%	36.8%	42.8%
125			40	168	10	**2.67**	0.02	0.09	0.01	1.95	1.86		100.0%	0.7%	3.4%	0.4%	72.9%	69.5%	**1.48**	0.02	0.04	0.01	1.16	1.45	55.5%	55.5%	0.6%	1.4%	0.3%	43.4%	54.4%
126			41	169	10	2.21	0.01	0.19	0.04	1.07	**2.78**		79.3%	0.4%	6.8%	1.5%	38.3%	100.0%	0.88	0.01	0.10	0.04	0.49	**1.53**	55.0%	31.7%	0.3%	3.5%	1.3%	17.6%	55.0%

[Folder Closed Status]

- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	4.9%	42.2%	3.5%	33.9%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.7%	55.9%	3.9%	26.1%	2.4%	25.2%	71.7%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.23**	0.00	0.02	0.00	0.04	0.13		100.0%	0.9%	8.8%	0.4%	18.9%	55.7%	**0.09**	0.00	0.01	0.00	0.03	0.07	38.6%	38.6%	0.9%	5.7%	0.4%	11.0%	30.3%
65			3		1	**0.21**	0.00	0.02	0.00	0.04	0.09		100.0%	0.9%	9.3%	0.5%	20.6%	43.9%	**0.07**	0.00	0.01	0.00	0.03	0.05	31.3%	31.3%	0.9%	5.6%	0.5%	13.6%	22.4%
66			5		1	**0.25**	0.00	0.02	0.00	0.04	0.09		100.0%	1.2%	8.1%	0.4%	14.9%	36.3%	**0.08**	0.00	0.01	0.00	0.02	0.05	31.5%	31.5%	0.8%	5.6%	0.4%	8.9%	21.4%
67			7		1	**0.17**	0.00	0.03	0.00	0.03	0.09		100.0%	1.8%	17.9%	0.6%	19.6%	53.6%	**0.06**	0.00	0.02	0.00	0.02	0.05	34.5%	34.5%	1.2%	10.1%	0.6%	11.3%	27.4%
68			9		1	**0.10**	0.01	0.03	0.00	0.03	0.10		100.0%	4.9%	30.4%	1.0%	26.5%	93.1%	0.04	0.00	0.01	0.00	0.02	**0.05**	46.1%	34.3%	3.9%	11.8%	1.0%	16.7%	46.1%
69			14		2	**0.41**	0.01	0.07	0.00	0.07	0.23		100.0%	2.2%	16.3%	0.7%	17.3%	55.0%	0.12	0.01	0.04	0.00	0.04	**0.13**	31.9%	30.2%	1.7%	10.2%	0.5%	9.7%	31.9%
70			15		2	**0.41**	0.01	0.02	0.00	0.10	0.22		100.0%	1.9%	5.1%	0.2%	23.2%	54.2%	**0.19**	0.00	0.01	0.00	0.06	0.16	46.2%	46.2%	1.0%	3.1%	0.2%	15.3%	37.5%
71			16		2	**0.43**	0.01	0.03	0.00	0.13	0.20		100.0%	1.6%	6.1%	0.7%	29.1%	46.2%	**0.20**	0.01	0.02	0.00	0.08	0.12	45.7%	45.7%	1.4%	3.7%	0.5%	17.5%	28.9%
72			17		2	**0.46**	0.01	0.05	0.00	0.09	0.18		100.0%	1.1%	11.0%	0.9%	20.2%	39.3%	**0.15**	0.00	0.03	0.00	0.06	0.11	33.6%	33.6%	0.9%	7.0%	0.9%	12.1%	23.7%
73			21		2	**0.45**	0.01	0.05	0.00	0.09	0.25		100.0%	1.5%	11.0%	0.4%	19.2%	55.0%	**0.19**	0.00	0.03	0.00	0.05	0.16	41.3%	41.3%	0.9%	6.8%	0.2%	10.2%	34.2%
74			22		2	**0.43**	0.01	0.01	0.00	0.13	0.21		100.0%	1.6%	2.8%	0.5%	29.4%	49.5%	**0.20**	0.01	0.01	0.00	0.08	0.14	47.4%	47.4%	1.4%	1.6%	0.2%	18.5%	32.5%
75			23		2	**0.29**	0.01	0.05	0.00	0.05	0.22		100.0%	2.4%	18.8%	1.4%	17.4%	76.0%	0.10	0.01	0.02	0.00	0.03	**0.12**	42.9%	36.2%	2.1%	7.7%	1.0%	10.8%	42.9%
76			29		5	**0.72**	0.02	0.23	0.01	0.19	0.57		100.0%	2.1%	31.9%	1.0%	26.3%	79.3%	0.23	0.01	0.15	0.00	0.11	**0.33**	45.9%	31.5%	1.8%	21.5%	0.6%	15.5%	45.9%
77			30		5	**0.96**	0.04	0.15	0.00	0.30	0.53		100.0%	3.8%	15.3%	0.4%	31.8%	55.5%	**0.53**	0.03	0.08	0.00	0.20	0.39	55.9%	55.9%	2.6%	8.4%	0.3%	20.9%	40.4%
78			31		5	**0.90**	0.03	0.04	0.01	0.31	0.53		100.0%	2.8%	4.3%	0.6%	33.9%	59.0%	**0.44**	0.02	0.02	0.00	0.23	0.41	49.3%	49.3%	2.4%	2.0%	0.3%	25.2%	45.8%
79			32		5	**0.91**	0.03	0.07	0.01	0.28	0.62		100.0%	2.9%	7.7%	0.6%	30.8%	68.1%	**0.43**	0.02	0.04	0.00	0.21	0.43	47.7%	47.7%	2.2%	4.2%	0.3%	22.6%	47.0%
80			33		5	**1.04**	0.02	0.12	0.02	0.22	0.51		100.0%	2.0%	11.5%	1.4%	21.2%	49.0%	**0.44**	0.01	0.05	0.01	0.12	0.24	42.2%	42.2%	1.2%	4.7%	1.3%	11.4%	23.1%
81			38		5	**0.95**	0.03	0.29	0.00	0.28	0.72		100.0%	3.1%	30.5%	0.4%	29.3%	76.1%	0.43	0.02	0.17	0.00	0.18	**0.49**	51.8%	44.8%	2.3%	18.4%	0.2%	18.6%	51.8%
82			39		5	**0.86**	0.03	0.06	0.00	0.28	0.44		100.0%	3.7%	6.7%	0.5%	32.1%	51.6%	**0.48**	0.02	0.03	0.00	0.20	0.32	55.8%	55.8%	2.8%	3.8%	0.2%	23.6%	37.6%
83			40		5	**0.89**	0.03	0.05	0.00	0.30	0.57		100.0%	3.3%	5.1%	0.3%	33.9%	64.0%	0.42	0.02	0.03	0.00	0.22	**0.44**	49.9%	47.2%	2.6%	2.9%	0.2%	24.9%	49.9%
84			41		5	**0.91**	0.02	0.12	0.01	0.12	0.48		100.0%	2.0%	12.8%	1.2%	13.1%	53.0%	**0.32**	0.01	0.06	0.01	0.07	0.22	35.1%	35.1%	1.2%	7.0%	1.2%	7.9%	24.5%
85			129		1	0.14	0.00	0.02	0.00	0.02	**0.18**		77.9%	1.1%	8.8%	1.7%	10.5%	100.0%	0.05	0.00	0.01	0.00	0.01	**0.09**	51.9%	28.2%	0.6%	5.5%	1.1%	6.6%	51.9%
86			131		1	0.19	0.00	0.02	0.01	0.02	**0.20**		90.7%	1.5%	7.4%	2.5%	7.8%	100.0%	0.06	0.00	0.01	0.00	0.01	**0.10**	47.5%	28.9%	1.0%	4.9%	1.5%	3.9%	47.5%
87			133		1	**0.19**	0.00	0.03	0.00	0.02	0.19		100.0%	0.5%	12.9%	1.5%	8.8%	95.9%	0.05	0.00	0.02	0.00	0.01	**0.09**	46.4%	27.3%	0.5%	8.2%	1.0%	4.6%	46.4%
88			135		1	**0.20**	0.00	0.03	0.00	0.03	0.18		100.0%	1.0%	16.7%	1.5%	13.7%	87.7%	0.06	0.00	0.02	0.00	0.01	**0.09**	45.1%	30.9%	1.0%	10.3%	1.0%	6.9%	45.1%
89			137		1	0.16	0.00	0.07	0.00	0.02	**0.17**		97.6%	1.2%	39.4%	1.2%	13.9%	100.0%	0.05	0.00	0.04	0.00	0.01	**0.07**	43.6%	32.1%	0.6%	22.4%	1.2%	7.3%	43.6%
90			142		2	0.35	0.00	0.10	0.00	0.03	**0.37**		95.6%	0.8%	26.0%	0.8%	9.0%	100.0%	0.12	0.00	0.06	0.00	0.02	**0.21**	57.4%	33.1%	0.8%	15.8%	0.5%	4.6%	57.4%
91			143		2	**0.46**	0.00	0.04	0.00	0.05	0.42		100.0%	0.7%	9.4%	0.4%	11.5%	91.9%	0.16	0.00	0.03	0.00	0.03	**0.26**	55.6%	35.3%	0.4%	6.3%	0.2%	5.7%	55.6%
92			144		2	**0.42**	0.00	0.03	0.01	0.08	0.38		100.0%	0.9%	6.6%	1.2%	17.8%	89.6%	0.14	0.00	0.01	0.00	0.04	**0.20**	47.9%	33.4%	0.9%	3.1%	0.9%	9.5%	47.9%
93			145		2	0.32	0.01	0.02	0.01	0.04	**0.51**		63.0%	1.0%	3.0%	2.6%	7.3%	100.0%	0.11	0.00	0.01	0.01	0.03	**0.26**	51.4%	21.9%	0.8%	1.8%	1.8%	5.1%	51.4%
94			149		2	**0.38**	0.00	0.05	0.00	0.04	0.37		100.0%	0.8%	13.2%	0.5%	9.3%	97.9%	0.13	0.00	0.03	0.00	0.02	**0.20**	54.0%	33.9%	0.8%	8.7%	0.5%	4.2%	54.0%
95			150		2	0.42	0.01	0.02	0.01	0.05	**0.51**		82.4%	1.0%	3.4%	1.2%	9.1%	100.0%	0.15	0.00	0.01	0.01	0.03	**0.28**	54.5%	28.7%	0.8%	2.6%	1.0%	5.3%	54.5%
96			151		2	0.43	0.01	0.03	0.01	0.03	**0.57**		76.0%	1.1%	4.8%	2.3%	5.5%	100.0%	0.14	0.00	0.01	0.01	0.02	**0.28**	49.9%	24.7%	0.7%	2.5%	1.6%	2.8%	49.9%
97			157		5	0.84	0.01	0.45	0.01	0.04	**1.07**		78.3%	0.9%	42.2%	0.5%	3.5%	100.0%	0.36	0.01	0.28	0.00	0.02	**0.54**	50.4%	33.7%	0.7%	26.1%	0.3%	1.9%	50.4%
98			158		5	**1.02**	0.01	0.14	0.01	0.16	0.90		100.0%	0.8%	13.6%	0.7%	15.9%	88.8%	0.44	0.01	0.10	0.01	0.10	**0.57**	56.4%	43.6%	0.7%	9.4%	0.6%	9.7%	56.4%
99			159		5	**1.12**	0.01	0.05	0.01	0.18	1.03		100.0%	0.9%	4.6%	0.5%	16.3%	92.2%	0.47	0.01	0.03	0.00	0.11	**0.79**	70.5%	41.8%	0.7%	2.9%	0.4%	9.8%	70.5%
100			160		5	0.95	0.02	0.07	0.01	0.21	**1.27**		74.6%	1.6%	5.5%	0.8%	16.5%	100.0%	0.45	0.02	0.03	0.01	0.13	**0.76**	59.7%	34.9%	1.5%	2.6%	0.6%	10.4%	59.7%
101			161		5	1.05	0.01	0.07	0.05	0.06	**1.53**		68.7%	0.8%	4.8%	3.5%	3.7%	100.0%	0.39	0.01	0.04	0.04	0.03	**0.78**	50.8%	25.5%	0.7%	2.8%	2.4%	2.0%	50.8%
102			166		5	0.81	0.01	0.31	0.01	0.11	**0.96**		83.7%	0.8%	32.1%	0.9%	11.6%	100.0%	0.39	0.01	0.19	0.01	0.07	**0.55**	56.6%	40.1%	0.7%	19.7%	0.7%	7.4%	56.6%
103			167		5	**1.15**	0.01	0.06	0.00	0.19	0.98		100.0%	0.7%	5.5%	0.3%	16.2%	85.1%	0.48	0.01	0.04	0.00	0.11	**0.76**	65.7%	41.5%	0.5%	3.1%	0.1%	9.4%	65.7%
104			168		5	**1.13**	0.01	0.04	0.01	0.21	1.11		100.0%	1.2%	3.5%	0.6%	18.3%	97.9%	0.48	0.01	0.02	0.00	0.12	**0.81**	71.7%	42.8%	1.0%	1.9%	0.4%	11.0%	71.7%
105			169		5	1.05	0.02	0.07	0.03	0.12	**1.56**		67.8%	1.0%	4.6%	2.1%	7.7%	100.0%	0.48	0.02	0.04	0.02	0.08	**0.86**	55.4%	30.8%	1.0%	2.5%	1.5%	5.0%	55.4%
106			1	129	2	**0.50**	0.01	0.05	0.01	0.09	0.35		100.0%	1.4%	9.5%	1.2%	17.3%	68.5%	**0.22**	0.01	0.03	0.00	0.05	0.15	44.4%	44.4%	1.2%	6.5%	0.8%	8.9%	30.0%
107			3	131	2	**0.43**	0.01	0.04	0.01	0.07	0.40		100.0%	2.1%	9.5%	2.3%	16.9%	91.7%	0.17	0.01	0.03	0.01	0.05	**0.21**	49.2%	39.7%	1.4%	5.8%	1.4%	11.1%	49.2%
108			5	133	2	**0.50**	0.01	0.05	0.01	0.07	0.37		100.0%	1.4%	9.4%	1.2%	13.3%	73.3%	0.17	0.01	0.03	0.00	0.03	**0.18**	36.7%	34.1%	1.2%	5.6%	0.8%	6.8%	36.7%
109			7	135	2	**0.49**	0.01	0.09	0.01	0.09	0.32		100.0%	1.4%	19.2%	1.0%	19.0%	65.6%	**0.18**	0.01	0.05	0.00	0.05	0.17	36.7%	36.7%	1.0%	11.1%	0.8%	10.5%	34.2%
110			9	137	2	0.30	0.01	0.11	0.01	0.07	**0.34**		87.8%	2.3%	31.2%	1.5%	19.0%	100.0%	0.11	0.01	0.06	0.00	0.04	**0.16**	45.8%	31.2%	1.7%	17.8%	0.9%	11.7%	45.8%
111			14	142	4	**0.83**	0.02	0.17	0.01	0.12	0.62		100.0%	2.2%	21.0%	1.0%	14.1%	75.1%	0.25	0.01	0.12	0.01	0.06	**0.37**	44.6%	30.3%	1.7%	13.9%	0.6%	7.4%	44.6%
112			15	143	4	**0.94**	0.01	0.08	0.00	0.19	0.76		100.0%	1.5%	8.0%	0.3%	20.0%	80.4%	**0.48**	0.01	0.05	0.00	0.11	0.47	50.7%	50.7%	1.0%	5.4%	0.2%	11.7%	49.8%
113			16	144	4	**0.77**	0.02	0.06	0.01	0.22	0.58		100.0%	1.9%	7.6%	1.6%	27.8%	75.2%	**0.32**	0.01	0.03	0.01	0.15	0.29	40.9%	40.9%	1.8%	4.4%	1.2%	19.4%	37.6%
114			17	145	4	0.84	0.02	0.08	0.03	0.22	**0.98**		86.1%	1.6%	8.1%	2.9%	22.3%	100.0%	0.36	0.01	0.05	0.02	0.15	**0.57**	58.9%	37.3%	1.1%	5.4%	1.8%	14.9%	58.9%
115			21	149	4	**0.96**	0.02	0.12	0.01	0.18	0.68		100.0%	1.7%	12.5%	0.6%	18.5%	71.6%	**0.44**	0.01	0.07	0.01	0.09	0.38	46.0%	46.0%	1.0%	7.7%	0.5%	9.5%	39.9%
116			22	150	4	**1.07**	0.02	0.05	0.01	0.27	0.97		100.0%	1.8%	4.4%	1.1%	24.8%	90.7%	0.54	0.02	0.03	0.01	0.16	**0.55**	51.8%	50.6%	1.4%	3.1%	0.7%	15.3%	51.8%
117			23	151	4	0.75	0.02	0.09	0.02	0.11	**0.85**		88.8%	2.7%	10.0%	2.4%	13.1%	100.0%	0.25	0.02	0.04	0.02	0.07	**0.48**	57.2%	29.9%	1.8%	4.7%	1.8%	8.2%	57.2%
118			29	157	10	1.63	0.03	0.76	0.02	0.33	**1.87**		87.2%	1.8%	40.8%	0.9%	17.9%	100.0%	0.53	0.03	0.47	0.01	0.19	**0.94**	50.6%	28.3%	1.5%	24.9%	0.5%	10.0%	50.6%
119			30	158	10	**2.36**	0.06	0.36	0.02	0.76	1.66		100.0%	2.7%	15.1%	0.7%	32.3%	70.2%	**1.22**	0.05	0.22	0.01	0.51	1.09	51.6%	51.6%	2.0%	9.5%	0.4%	21.6%	46.2%
120			31	159	10	**2.20**	0.06	0.10	0.02	0.59	2.04		100.0%	2.5%	4.5%	0.9%	26.6%	92.5%	1.22	0.05	0.07	0.01	0.40	**1.53**	69.6%	55.3%	2.3%	2.9%	0.5%	18.0%	69.6%
121			32	160	10	**2.74**	0.07	0.21	0.02	0.90	2.67		100.0%	2.7%	7.6%	0.7%	32.7%	97.3%	1.31	0.06	0.10	0.02	0.62	**1.74**	63.5%	47.7%	2.1%	3.8%	0.5%	22.8%	63.5%
122			33	161	10	2.49	0.05	0.23	0.11	0.44	**3.17**		78.6%	1.7%	7.2%	3.4%	14.0%	100.0%	0.99	0.03	0.10	0.07	0.26	**1.63**	51.5%	31.1%	1.0%	3.3%	2.3%	8.1%	51.5%
123			38	166	10	**2.06**	0.05	0.72	0.02	0.63	1.84		100.0%	2.5%	34.9%	0.7%	30.6%	89.4%	0.89	0.05	0.45	0.01	0.42	**1.10**	53.3%	43.1%	2.2%	21.6%	0.4%	20.3%	53.3%
124			39	167	10	**2.23**	0.07	0.14	0.01	0.55	1.61		100.0%	3.0%	6.1%	0.6%	24.8%	72.0%	**1.24**	0.05	0.08	0.01	0.38	1.18	55.4%	55.4%	2.2%	3.7%	0.3%	17.1%	53.0%
125			40	168	10	**2.58**	0.06	0.11	0.02	0.83	2.38		100.0%	2.4%	4.1%	0.6%	32.1%	92.3%	1.33	0.05	0.07	0.01	0.54	**1.78**	68.8%	51.4%	2.0%	2.6%	0.4%	21.0%	68.8%
126			41	169	10	2.26	0.05	0.25	0.07	0.40	**2.82**		80.0%	1.8%	9.0%	2.6%	14.2%	100.0%	0.86	0.03	0.11	0.05	0.24	**1.49**	52.9%	30.3%	1.2%	3.8%	1.8%	8.4%	52.9%

- K–patch Mid CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	4.8%	40.5%	2.4%	36.7%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						69.1%	55.6%	3.6%	25.2%	1.8%	26.2%	69.1%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.20	0.00	0.02	0.00	0.04	0.13		100.0%	1.0%	8.0%	0.5%	19.6%	65.3%	0.08	0.00	0.01	0.00	0.02	0.07	38.2%	38.2%	1.0%	5.0%	0.5%	11.1%	36.2%
65			3		1	0.21	0.00	0.03	0.00	0.03	0.10		100.0%	1.4%	12.2%	0.5%	15.5%	46.9%	0.07	0.00	0.02	0.00	0.02	0.05	30.5%	30.5%	0.9%	7.5%	0.5%	8.9%	24.9%
66			5		1	0.29	0.00	0.03	0.00	0.04	0.09		100.0%	1.0%	9.1%	0.7%	14.0%	32.5%	0.07	0.00	0.02	0.00	0.03	0.06	25.2%	25.2%	1.0%	5.6%	0.3%	8.7%	19.9%
67			7		1	0.19	0.00	0.03	0.00	0.03	0.09		100.0%	1.6%	13.3%	1.1%	18.1%	49.5%	0.06	0.00	0.01	0.00	0.02	0.05	29.3%	29.3%	1.1%	7.4%	0.5%	10.6%	26.1%
68			9		1	0.09	0.01	0.03	0.00	0.02	0.12		75.4%	4.2%	27.1%	0.8%	16.9%	100.0%	0.03	0.00	0.01	0.00	0.01	0.06	48.3%	22.9%	3.4%	11.9%	0.8%	10.2%	48.3%
69			14		2	0.47	0.01	0.07	0.00	0.08	0.22		100.0%	1.3%	15.6%	0.6%	17.7%	46.5%	0.15	0.01	0.05	0.00	0.04	0.14	30.9%	30.9%	1.3%	9.8%	0.6%	8.7%	29.0%
70			15		2	0.35	0.01	0.02	0.00	0.07	0.25		100.0%	2.3%	6.5%	0.3%	21.0%	70.2%	0.17	0.01	0.01	0.00	0.05	0.17	48.9%	48.9%	1.7%	4.0%	0.3%	12.8%	47.4%
71			16		2	0.40	0.01	0.03	0.00	0.11	0.23		100.0%	1.5%	7.3%	0.8%	26.3%	58.0%	0.17	0.01	0.02	0.00	0.06	0.14	42.8%	42.8%	1.3%	4.0%	0.5%	15.3%	36.0%
72			17		2	0.52	0.01	0.06	0.00	0.10	0.17		100.0%	1.3%	10.7%	0.8%	19.5%	31.6%	0.18	0.01	0.04	0.00	0.06	0.09	33.7%	33.7%	1.0%	7.3%	0.6%	10.7%	16.7%
73			21		2	0.41	0.01	0.05	0.00	0.09	0.27		100.0%	1.7%	12.3%	0.5%	21.5%	66.2%	0.17	0.01	0.03	0.00	0.05	0.17	41.2%	41.2%	1.2%	8.4%	0.2%	11.9%	41.0%
74			22		2	0.37	0.01	0.02	0.00	0.10	0.25		100.0%	1.6%	4.0%	0.5%	25.6%	66.6%	0.18	0.01	0.01	0.00	0.06	0.16	48.0%	48.0%	1.6%	2.4%	0.3%	16.2%	42.0%
75			23		2	0.25	0.01	0.05	0.00	0.04	0.22		100.0%	2.8%	18.1%	1.6%	17.3%	86.6%	0.08	0.01	0.02	0.00	0.03	0.12	46.1%	30.3%	2.0%	8.3%	1.2%	11.4%	46.1%
76			29		5	0.87	0.01	0.22	0.01	0.22	0.56		100.0%	1.5%	25.7%	1.3%	25.4%	64.5%	0.32	0.01	0.15	0.01	0.13	0.30	36.4%	36.4%	0.9%	17.0%	0.8%	14.5%	34.7%
77			30		5	0.80	0.04	0.15	0.00	0.26	0.63		100.0%	4.8%	18.6%	0.5%	32.5%	79.0%	0.41	0.03	0.08	0.00	0.18	0.45	56.1%	51.7%	3.6%	10.3%	0.4%	22.5%	56.1%
78			31		5	0.85	0.02	0.05	0.00	0.29	0.51		100.0%	2.7%	6.0%	0.5%	34.5%	60.4%	0.39	0.02	0.03	0.00	0.22	0.40	47.2%	45.9%	2.4%	3.2%	0.2%	26.2%	47.2%
79			32		5	0.87	0.03	0.06	0.01	0.27	0.58		100.0%	3.4%	6.5%	0.7%	31.6%	67.5%	0.38	0.02	0.03	0.00	0.19	0.44	50.3%	44.3%	2.5%	3.9%	0.3%	21.7%	50.3%
80			33		5	1.13	0.02	0.09	0.02	0.24	0.52		100.0%	1.7%	8.0%	1.3%	21.5%	45.7%	0.45	0.01	0.05	0.01	0.13	0.26	39.7%	39.7%	1.2%	4.4%	1.2%	11.3%	22.6%
81			38		5	0.86	0.02	0.24	0.01	0.25	0.70		100.0%	2.8%	27.9%	0.6%	29.1%	81.8%	0.38	0.02	0.15	0.00	0.16	0.47	54.9%	44.4%	2.4%	16.9%	0.5%	18.2%	54.9%
82			39		5	0.72	0.03	0.05	0.00	0.24	0.53		100.0%	4.6%	7.5%	0.4%	33.8%	73.7%	0.37	0.02	0.03	0.00	0.18	0.39	54.2%	51.0%	3.2%	3.8%	0.3%	25.0%	54.2%
83			40		5	0.90	0.02	0.04	0.00	0.31	0.50		100.0%	2.6%	4.3%	0.3%	34.5%	56.0%	0.43	0.02	0.02	0.00	0.22	0.39	47.4%	47.4%	2.2%	2.0%	0.2%	24.9%	43.7%
84			41		5	0.98	0.01	0.10	0.02	0.14	0.53		100.0%	1.1%	10.0%	1.6%	14.1%	54.0%	0.35	0.01	0.07	0.01	0.08	0.22	36.0%	36.0%	0.9%	7.0%	1.3%	8.2%	22.4%
85			129		1	0.13	0.00	0.02	0.00	0.02	0.19		72.4%	1.1%	8.1%	1.1%	8.1%	100.0%	0.05	0.00	0.01	0.00	0.01	0.10	51.4%	27.0%	1.1%	5.9%	1.1%	4.9%	51.4%
86			131		1	0.19	0.00	0.02	0.00	0.02	0.19		96.9%	1.6%	9.4%	1.6%	9.4%	100.0%	0.06	0.00	0.01	0.00	0.01	0.09	45.8%	29.2%	1.0%	6.3%	1.6%	4.7%	45.8%
87			133		1	0.19	0.00	0.03	0.00	0.02	0.17		100.0%	1.0%	13.9%	1.0%	10.8%	87.1%	0.06	0.00	0.02	0.00	0.01	0.08	38.7%	32.5%	1.0%	8.8%	0.5%	6.2%	38.7%
88			135		1	0.21	0.00	0.03	0.00	0.02	0.19		100.0%	0.9%	15.6%	0.9%	11.4%	87.7%	0.06	0.00	0.02	0.00	0.01	0.08	36.5%	30.3%	0.5%	8.5%	0.9%	5.7%	36.5%
89			137		1	0.17	0.00	0.06	0.00	0.03	0.17		100.0%	1.8%	34.1%	1.2%	14.7%	98.2%	0.05	0.00	0.03	0.00	0.01	0.08	44.7%	30.6%	1.2%	20.0%	0.6%	7.6%	44.7%
90			142		2	0.36	0.00	0.10	0.00	0.03	0.39		91.5%	0.8%	26.7%	0.8%	8.7%	100.0%	0.12	0.00	0.06	0.00	0.02	0.21	54.0%	31.6%	0.5%	15.7%	0.5%	4.9%	54.0%
91			143		2	0.44	0.00	0.05	0.00	0.06	0.36		100.0%	0.9%	10.9%	0.2%	14.3%	81.1%	0.18	0.00	0.03	0.00	0.03	0.20	45.7%	40.7%	0.9%	7.0%	0.2%	6.8%	45.7%
92			144		2	0.44	0.01	0.03	0.01	0.07	0.46		95.9%	1.1%	5.9%	1.1%	14.3%	100.0%	0.14	0.00	0.01	0.00	0.04	0.23	50.4%	30.9%	0.9%	2.6%	0.9%	7.8%	50.4%
93			145		2	0.33	0.01	0.02	0.01	0.03	0.55		60.1%	0.9%	2.9%	1.8%	5.8%	100.0%	0.10	0.01	0.01	0.01	0.02	0.29	52.5%	17.1%	0.9%	2.0%	1.3%	3.4%	52.5%
94			149		2	0.37	0.00	0.05	0.00	0.04	0.35		100.0%	0.8%	13.9%	0.5%	10.4%	92.8%	0.14	0.00	0.04	0.00	0.02	0.18	47.9%	36.4%	0.8%	9.9%	0.3%	5.1%	47.9%
95			150		2	0.36	0.01	0.02	0.01	0.05	0.49		74.1%	1.2%	3.9%	1.0%	9.4%	100.0%	0.12	0.01	0.01	0.00	0.03	0.27	54.5%	24.7%	1.0%	2.7%	0.6%	5.5%	54.5%
96			151		2	0.45	0.00	0.04	0.01	0.04	0.54		83.5%	0.7%	6.5%	1.5%	7.6%	100.0%	0.13	0.00	0.02	0.01	0.02	0.26	47.2%	24.6%	0.6%	4.1%	1.1%	4.1%	47.2%
97			157		5	0.89	0.01	0.48	0.00	0.04	1.18		75.9%	0.9%	40.5%	0.3%	3.2%	100.0%	0.38	0.01	0.30	0.00	0.02	0.60	51.4%	32.2%	0.6%	25.2%	0.2%	1.8%	51.4%
98			158		5	0.97	0.01	0.16	0.00	0.17	0.81		100.0%	1.1%	16.9%	0.4%	17.6%	83.3%	0.42	0.01	0.08	0.00	0.11	0.54	55.6%	43.5%	0.9%	8.7%	0.4%	11.5%	55.6%
99			159		5	1.04	0.01	0.05	0.01	0.21	0.85		100.0%	1.0%	4.7%	0.5%	19.8%	81.5%	0.46	0.01	0.03	0.00	0.12	0.62	59.4%	44.4%	0.9%	3.0%	0.4%	11.8%	59.4%
100			160		5	0.92	0.02	0.07	0.01	0.20	1.33		68.7%	1.4%	5.6%	0.7%	14.6%	100.0%	0.43	0.02	0.03	0.01	0.13	0.82	61.6%	32.4%	1.4%	2.6%	0.4%	9.5%	61.6%
101			161		5	1.07	0.02	0.06	0.04	0.07	1.59		67.0%	1.4%	3.5%	2.2%	4.4%	100.0%	0.45	0.02	0.03	0.03	0.04	0.83	52.1%	28.2%	1.1%	1.7%	1.8%	2.8%	52.1%
102			166		5	0.81	0.01	0.27	0.01	0.10	0.97		83.4%	0.9%	28.3%	0.5%	10.7%	100.0%	0.40	0.01	0.18	0.01	0.07	0.58	59.6%	41.3%	0.7%	18.3%	0.5%	7.3%	59.6%
103			167		5	1.11	0.01	0.07	0.00	0.21	0.76		100.0%	0.7%	6.0%	0.3%	18.8%	68.8%	0.49	0.01	0.04	0.00	0.13	0.57	50.9%	43.9%	0.5%	3.7%	0.1%	11.4%	50.9%
104			168		5	1.07	0.02	0.04	0.01	0.22	0.99		100.0%	1.6%	3.4%	0.5%	20.7%	92.2%	0.44	0.02	0.02	0.00	0.14	0.71	66.1%	41.3%	1.4%	1.9%	0.4%	12.7%	66.1%
105			169		5	1.03	0.03	0.08	0.02	0.13	1.64		62.5%	1.7%	4.9%	1.2%	7.6%	100.0%	0.49	0.02	0.04	0.02	0.08	0.93	56.5%	29.6%	1.2%	2.3%	0.9%	5.1%	56.5%
106			1	129	2	0.46	0.01	0.05	0.01	0.08	0.41		100.0%	2.0%	11.0%	1.3%	18.5%	89.9%	0.21	0.01	0.03	0.00	0.05	0.18	45.3%	45.3%	1.5%	6.6%	0.9%	10.3%	40.2%
107			3	131	2	0.47	0.01	0.05	0.01	0.06	0.37		100.0%	1.7%	10.8%	1.3%	13.3%	78.1%	0.16	0.01	0.03	0.01	0.04	0.17	35.7%	34.0%	1.5%	6.8%	1.1%	8.2%	35.7%
108			5	133	2	0.56	0.01	0.05	0.01	0.09	0.35		100.0%	1.4%	8.4%	0.9%	15.4%	63.2%	0.18	0.01	0.03	0.00	0.05	0.17	32.3%	32.3%	1.1%	5.2%	0.7%	8.0%	29.6%
109			7	135	2	0.51	0.01	0.07	0.01	0.09	0.33		100.0%	1.4%	14.6%	1.2%	17.3%	64.6%	0.17	0.01	0.04	0.00	0.05	0.17	33.1%	33.1%	1.0%	8.5%	0.8%	10.0%	32.7%
110			9	137	2	0.31	0.01	0.10	0.00	0.06	0.36		86.3%	2.2%	27.5%	1.1%	16.2%	100.0%	0.10	0.01	0.06	0.00	0.03	0.17	47.0%	26.4%	1.9%	15.1%	0.8%	9.3%	47.0%
111			14	142	4	0.83	0.01	0.18	0.01	0.12	0.67		100.0%	1.7%	21.5%	0.8%	14.4%	80.7%	0.27	0.01	0.11	0.01	0.07	0.35	42.1%	32.8%	1.4%	13.0%	0.7%	8.3%	42.1%
112			15	143	4	0.86	0.01	0.08	0.00	0.18	0.68		100.0%	1.5%	9.0%	0.3%	20.9%	78.9%	0.44	0.01	0.05	0.00	0.09	0.40	51.1%	51.1%	1.3%	5.7%	0.2%	10.7%	46.5%
113			16	144	4	0.77	0.02	0.07	0.01	0.17	0.73		100.0%	2.2%	9.1%	1.0%	21.7%	94.7%	0.29	0.01	0.03	0.01	0.12	0.41	53.1%	37.0%	1.8%	4.2%	0.8%	16.0%	53.1%
114			17	145	4	0.88	0.01	0.10	0.02	0.20	0.99		88.4%	1.3%	10.4%	2.3%	20.5%	100.0%	0.33	0.01	0.07	0.02	0.12	0.55	55.3%	33.6%	1.0%	6.6%	1.8%	11.7%	55.3%
115			21	149	4	0.95	0.02	0.13	0.01	0.18	0.66		100.0%	1.9%	13.2%	0.6%	18.8%	69.3%	0.43	0.01	0.08	0.00	0.11	0.38	44.8%	44.8%	1.5%	8.4%	0.4%	11.3%	39.6%
116			22	150	4	0.98	0.02	0.05	0.01	0.24	1.01		96.9%	1.9%	5.2%	0.8%	23.5%	100.0%	0.48	0.02	0.04	0.01	0.15	0.54	53.6%	47.9%	1.5%	3.9%	0.5%	14.5%	53.6%
117			23	151	4	0.69	0.02	0.10	0.02	0.12	0.85		80.4%	2.2%	11.3%	1.8%	14.2%	100.0%	0.22	0.01	0.06	0.01	0.07	0.46	54.0%	25.3%	1.5%	6.8%	1.4%	8.7%	54.0%
118			29	157	10	1.88	0.03	0.72	0.02	0.40	1.94		96.9%	1.8%	37.2%	1.1%	20.8%	100.0%	0.63	0.02	0.46	0.02	0.23	0.99	50.9%	32.4%	1.1%	23.7%	0.8%	12.0%	50.9%
119			30	158	10	1.92	0.06	0.35	0.01	0.71	1.62		100.0%	2.9%	18.0%	0.7%	36.7%	84.2%	0.89	0.04	0.22	0.01	0.50	1.05	54.5%	46.3%	2.3%	11.4%	0.5%	26.1%	54.5%
120			31	159	10	2.17	0.06	0.11	0.01	0.61	1.77		100.0%	2.7%	5.0%	0.6%	28.3%	81.8%	1.21	0.05	0.06	0.01	0.43	1.29	59.4%	55.6%	2.4%	3.0%	0.4%	19.6%	59.4%
121			32	160	10	2.56	0.08	0.21	0.02	0.86	2.69		95.3%	2.9%	7.7%	0.8%	31.9%	100.0%	1.19	0.06	0.11	0.01	0.59	1.86	69.1%	44.1%	2.2%	4.1%	0.4%	21.9%	69.1%
122			33	161	10	2.73	0.06	0.22	0.07	0.50	3.06		89.1%	1.9%	7.3%	2.4%	16.3%	100.0%	0.98	0.04	0.11	0.05	0.27	1.59	51.8%	32.1%	1.2%	3.6%	1.7%	8.8%	51.8%
123			38	166	10	1.79	0.04	0.64	0.01	0.54	1.78		100.0%	2.2%	35.6%	0.8%	30.4%	99.4%	0.79	0.03	0.40	0.01	0.38	1.10	61.7%	44.4%	1.9%	22.4%	0.6%	21.1%	61.7%
124			39	167	10	2.08	0.06	0.14	0.01	0.50	1.39		100.0%	2.9%	6.5%	0.3%	23.9%	66.9%	1.15	0.04	0.08	0.01	0.34	1.01	55.5%	55.5%	2.0%	3.7%	0.2%	16.6%	48.8%
125			40	168	10	2.64	0.07	0.09	0.01	0.88	2.14		100.0%	2.5%	3.2%	0.5%	33.3%	80.8%	1.38	0.06	0.04	0.01	0.59	1.63	61.6%	52.2%	2.1%	1.6%	0.3%	22.5%	61.6%
126			41	169	10	2.41	0.06	0.21	0.05	0.41	2.78		86.6%	2.1%	7.6%	1.8%	14.9%	100.0%	0.89	0.04	0.12	0.04	0.23	1.49	53.4%	32.0%	1.4%	4.1%	1.3%	8.3%	53.4%

- K–patch High CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)							100.0%	4.9%	39.0%	2.2%	35.9%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.6%	57.5%	3.6%	24.6%	1.8%	26.2%	71.6%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	per Beam Back-off (dB)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.22	0.00	0.02	0.00	0.05	0.13		100.0%	1.4%	8.3%	0.5%	20.7%	59.0%	0.08	0.00	0.01	0.00	0.03	0.07	38.7%	38.7%	0.9%	6.0%	0.5%	12.0%	34.1%
65			3		1	0.19	0.00	0.02	0.00	0.03	0.09		100.0%	1.6%	12.1%	0.5%	14.7%	46.3%	0.06	0.00	0.01	0.00	0.02	0.05	31.1%	31.1%	1.1%	7.4%	0.5%	8.4%	26.3%
66			5		1	0.25	0.00	0.02	0.00	0.04	0.09		100.0%	1.2%	7.6%	0.4%	14.4%	35.2%	0.07	0.00	0.01	0.00	0.02	0.05	26.8%	26.8%	0.8%	4.8%	0.4%	7.6%	20.0%
67			7		1	0.16	0.00	0.02	0.00	0.03	0.09		100.0%	1.8%	11.6%	0.6%	18.9%	53.0%	0.05	0.00	0.01	0.00	0.02	0.05	32.9%	32.9%	1.2%	6.7%	0.6%	13.4%	28.7%
68			9		1	0.13	0.00	0.03	0.00	0.03	0.12		100.0%	2.3%	23.5%	1.5%	21.2%	90.2%	0.04	0.00	0.02	0.00	0.02	0.06	47.0%	31.8%	2.3%	11.4%	0.8%	12.1%	47.0%
69			14		2	0.42	0.01	0.06	0.00	0.07	0.19		100.0%	1.2%	14.2%	0.7%	16.1%	44.8%	0.12	0.00	0.04	0.00	0.03	0.12	29.4%	29.2%	1.0%	8.9%	0.7%	8.0%	29.4%
70			15		2	0.37	0.01	0.03	0.00	0.09	0.25		100.0%	2.2%	7.4%	0.3%	23.4%	67.6%	0.17	0.01	0.02	0.00	0.05	0.17	47.4%	47.4%	1.6%	4.1%	0.0%	14.2%	46.3%
71			16		2	0.42	0.01	0.02	0.00	0.11	0.21		100.0%	1.7%	5.5%	0.7%	26.2%	50.7%	0.19	0.01	0.01	0.00	0.07	0.11	45.2%	45.2%	1.2%	3.4%	0.5%	15.9%	27.4%
72			17		2	0.47	0.01	0.04	0.00	0.10	0.16		100.0%	1.5%	9.3%	0.6%	20.5%	32.7%	0.16	0.01	0.03	0.00	0.06	0.07	32.9%	32.9%	1.3%	6.1%	0.6%	12.0%	15.4%
73			21		2	0.38	0.01	0.06	0.00	0.08	0.29		100.0%	1.6%	14.6%	0.5%	22.0%	75.7%	0.16	0.00	0.04	0.00	0.05	0.18	48.1%	41.0%	1.1%	9.8%	0.3%	13.5%	48.1%
74			22		2	0.40	0.01	0.01	0.00	0.10	0.22		100.0%	1.8%	2.8%	0.5%	25.8%	54.8%	0.19	0.01	0.01	0.00	0.06	0.13	48.5%	48.5%	1.5%	1.5%	0.3%	15.9%	32.3%
75			23		2	0.24	0.01	0.04	0.00	0.04	0.22		100.0%	2.5%	16.0%	1.6%	16.9%	89.3%	0.06	0.00	0.02	0.00	0.03	0.11	45.3%	23.9%	1.6%	8.6%	1.2%	11.5%	45.3%
76			29		5	0.90	0.02	0.22	0.01	0.22	0.51		100.0%	1.9%	24.5%	1.1%	23.9%	56.6%	0.32	0.01	0.13	0.01	0.12	0.31	35.9%	35.9%	1.1%	14.8%	0.8%	13.7%	34.5%
77			30		5	0.80	0.03	0.14	0.01	0.25	0.60		100.0%	3.9%	17.3%	0.6%	31.5%	74.5%	0.40	0.03	0.08	0.00	0.19	0.42	51.9%	49.4%	3.1%	9.7%	0.4%	23.1%	51.9%
78			31		5	0.91	0.02	0.05	0.01	0.30	0.47		100.0%	1.6%	5.4%	0.9%	33.1%	51.3%	0.44	0.01	0.03	0.01	0.22	0.37	48.0%	48.0%	1.4%	3.0%	0.5%	24.3%	40.6%
79			32		5	0.80	0.02	0.05	0.00	0.28	0.50		100.0%	2.8%	6.8%	0.5%	34.8%	62.9%	0.36	0.02	0.03	0.00	0.20	0.37	46.1%	44.8%	2.1%	4.3%	0.4%	25.3%	46.1%
80			33		5	1.11	0.02	0.08	0.01	0.24	0.55		100.0%	1.4%	7.4%	1.2%	21.6%	49.2%	0.41	0.01	0.04	0.01	0.13	0.28	36.7%	36.7%	1.1%	3.9%	1.0%	11.3%	25.2%
81			38		5	0.78	0.02	0.23	0.01	0.23	0.63		100.0%	2.8%	29.4%	0.9%	29.4%	80.2%	0.34	0.01	0.14	0.00	0.15	0.43	55.3%	44.0%	1.8%	17.8%	0.5%	19.3%	55.3%
82			39		5	0.78	0.04	0.05	0.01	0.26	0.51		100.0%	4.9%	6.4%	0.6%	33.8%	65.3%	0.39	0.03	0.03	0.00	0.19	0.38	50.6%	50.6%	3.6%	3.9%	0.4%	24.9%	49.0%
83			40		5	0.90	0.02	0.03	0.01	0.32	0.46		100.0%	2.1%	3.6%	0.6%	35.1%	51.0%	0.43	0.02	0.02	0.00	0.23	0.36	47.8%	47.8%	1.8%	1.9%	0.3%	26.1%	39.5%
84			41		5	0.92	0.01	0.09	0.01	0.14	0.57		100.0%	1.0%	9.5%	1.5%	15.2%	62.2%	0.33	0.01	0.07	0.01	0.07	0.24	35.9%	35.9%	0.8%	7.0%	1.4%	7.9%	26.4%
85			129		1	0.13	0.00	0.02	0.00	0.02	0.18		75.7%	1.7%	9.0%	1.7%	10.7%	100.0%	0.04	0.00	0.01	0.00	0.01	0.09	51.4%	24.3%	1.1%	5.6%	1.1%	6.2%	51.4%
86			131		1	0.18	0.00	0.02	0.00	0.02	0.19		97.8%	1.6%	8.1%	1.6%	10.2%	100.0%	0.06	0.00	0.01	0.00	0.01	0.08	45.2%	31.2%	1.6%	5.4%	1.1%	5.9%	45.2%
87			133		1	0.20	0.00	0.03	0.00	0.02	0.16		100.0%	2.0%	13.2%	1.0%	10.8%	79.4%	0.07	0.00	0.02	0.00	0.01	0.07	34.8%	32.8%	1.5%	8.3%	0.5%	5.9%	34.8%
88			135		1	0.21	0.00	0.04	0.00	0.02	0.19		100.0%	1.0%	17.2%	1.0%	11.5%	89.0%	0.06	0.00	0.02	0.00	0.01	0.08	36.8%	30.6%	0.5%	9.6%	1.0%	5.7%	36.8%
89			137		1	0.18	0.00	0.06	0.00	0.02	0.17		100.0%	1.6%	29.9%	1.1%	12.5%	92.4%	0.06	0.00	0.03	0.00	0.01	0.08	44.6%	30.4%	1.1%	16.3%	0.5%	6.0%	44.6%
90			142		2	0.37	0.00	0.11	0.00	0.04	0.39		96.9%	1.0%	28.0%	0.8%	9.1%	100.0%	0.13	0.00	0.06	0.00	0.02	0.22	56.2%	32.6%	0.8%	16.3%	0.5%	4.9%	56.2%
91			143		2	0.42	0.01	0.04	0.00	0.06	0.33		100.0%	1.4%	10.4%	0.7%	15.2%	78.7%	0.18	0.01	0.03	0.00	0.03	0.19	44.1%	43.4%	1.2%	7.1%	0.5%	8.1%	44.1%
92			144		2	0.44	0.01	0.02	0.01	0.07	0.47		94.2%	1.5%	4.9%	1.1%	14.3%	100.0%	0.14	0.00	0.01	0.00	0.04	0.25	53.1%	30.5%	0.9%	2.3%	0.9%	8.3%	53.1%
93			145		2	0.32	0.01	0.02	0.01	0.04	0.51		61.9%	1.2%	2.9%	1.6%	7.6%	100.0%	0.10	0.01	0.01	0.01	0.02	0.27	53.1%	19.1%	1.0%	2.1%	1.4%	4.7%	53.1%
94			149		2	0.36	0.00	0.05	0.00	0.04	0.35		100.0%	1.1%	12.9%	1.1%	10.9%	96.6%	0.13	0.00	0.03	0.00	0.02	0.18	49.9%	37.3%	0.8%	8.7%	0.6%	5.6%	49.9%
95			150		2	0.33	0.01	0.02	0.00	0.06	0.43		76.6%	1.2%	4.4%	0.9%	12.7%	100.0%	0.11	0.00	0.01	0.00	0.03	0.25	58.3%	25.2%	0.9%	2.8%	0.7%	7.9%	58.3%
96			151		2	0.44	0.01	0.03	0.01	0.04	0.49		90.8%	1.4%	6.8%	1.4%	9.0%	100.0%	0.13	0.01	0.02	0.01	0.03	0.24	48.8%	26.8%	1.0%	4.3%	1.2%	5.3%	48.8%
97			157		5	0.89	0.01	0.46	0.01	0.06	1.18		75.4%	0.7%	39.0%	0.5%	4.8%	100.0%	0.38	0.01	0.29	0.00	0.03	0.62	52.8%	31.8%	0.5%	24.6%	0.3%	2.5%	52.8%
98			158		5	0.93	0.02	0.16	0.01	0.15	0.77		100.0%	1.7%	16.9%	1.3%	15.8%	83.2%	0.41	0.01	0.08	0.01	0.09	0.52	55.6%	44.0%	1.4%	8.7%	0.6%	9.8%	55.6%
99			159		5	1.03	0.01	0.04	0.01	0.22	0.71		100.0%	0.9%	4.0%	0.6%	21.5%	68.6%	0.50	0.01	0.02	0.00	0.13	0.51	49.0%	48.1%	0.7%	2.3%	0.4%	12.6%	49.0%
100			160		5	0.89	0.03	0.07	0.01	0.20	1.32		67.1%	1.9%	5.0%	0.7%	15.0%	100.0%	0.41	0.02	0.03	0.01	0.14	0.84	63.5%	31.2%	1.4%	2.4%	0.4%	10.4%	63.5%
101			161		5	0.99	0.03	0.05	0.03	0.07	1.45		67.7%	1.7%	3.4%	2.2%	4.6%	100.0%	0.44	0.02	0.03	0.03	0.04	0.77	53.0%	30.4%	1.2%	1.9%	1.8%	2.7%	53.0%
102			166		5	0.82	0.02	0.24	0.01	0.09	0.95		85.4%	1.6%	24.8%	1.5%	8.9%	100.0%	0.39	0.01	0.15	0.01	0.05	0.59	61.9%	41.2%	1.2%	15.4%	0.8%	5.1%	61.9%
103			167		5	1.10	0.01	0.06	0.00	0.23	0.65		100.0%	0.7%	5.4%	0.2%	21.2%	59.0%	0.53	0.01	0.03	0.00	0.14	0.45	48.2%	48.2%	0.5%	2.9%	0.2%	12.5%	41.1%
104			168		5	1.05	0.01	0.05	0.01	0.24	0.87		100.0%	1.3%	4.5%	0.6%	22.8%	82.9%	0.44	0.01	0.02	0.00	0.15	0.64	60.5%	42.0%	1.1%	2.0%	0.4%	14.6%	60.5%
105			169		5	0.94	0.03	0.05	0.02	0.12	1.56		60.3%	2.2%	3.2%	1.0%	7.5%	100.0%	0.46	0.02	0.03	0.01	0.08	0.90	57.6%	29.5%	1.4%	1.7%	0.8%	5.1%	57.6%
106			1	129	2	0.47	0.01	0.06	0.01	0.10	0.40		100.0%	2.1%	12.2%	1.5%	22.2%	85.3%	0.20	0.01	0.04	0.01	0.06	0.17	42.5%	42.5%	1.5%	7.9%	1.1%	13.0%	37.0%
107			3	131	2	0.45	0.01	0.05	0.01	0.07	0.35		100.0%	2.0%	10.7%	1.3%	14.7%	79.0%	0.16	0.01	0.03	0.01	0.04	0.15	34.8%	34.8%	1.8%	6.5%	1.1%	9.2%	33.0%
108			5	133	2	0.55	0.01	0.05	0.00	0.09	0.34		100.0%	1.8%	9.6%	0.5%	15.4%	61.1%	0.19	0.01	0.03	0.00	0.05	0.16	33.6%	33.6%	1.4%	5.8%	0.5%	8.9%	28.8%
109			7	135	2	0.47	0.01	0.07	0.01	0.08	0.33		100.0%	1.5%	13.8%	1.1%	17.0%	69.2%	0.16	0.00	0.04	0.00	0.05	0.17	36.3%	33.8%	0.8%	7.4%	0.8%	10.8%	36.3%
110			9	137	2	0.38	0.01	0.09	0.01	0.07	0.34		100.0%	2.3%	23.5%	1.6%	18.8%	89.6%	0.12	0.01	0.04	0.00	0.04	0.16	41.5%	32.1%	1.6%	11.5%	0.8%	9.7%	41.5%
111			14	142	4	0.81	0.01	0.19	0.01	0.11	0.66		100.0%	1.2%	23.5%	1.0%	14.1%	81.5%	0.27	0.01	0.11	0.01	0.06	0.34	41.6%	33.2%	1.0%	13.3%	0.9%	7.5%	41.6%
112			15	143	4	0.84	0.01	0.08	0.01	0.20	0.65		100.0%	1.3%	10.0%	0.6%	23.8%	77.8%	0.43	0.01	0.05	0.00	0.12	0.38	51.0%	51.0%	1.2%	6.0%	0.4%	13.8%	45.5%
113			16	144	4	0.81	0.03	0.08	0.01	0.18	0.66		100.0%	3.1%	9.4%	1.5%	22.1%	82.1%	0.27	0.02	0.04	0.01	0.14	0.40	49.8%	32.9%	2.0%	5.1%	1.1%	16.7%	49.8%
114			17	145	4	0.83	0.02	0.07	0.02	0.21	0.92		90.3%	1.8%	8.0%	1.6%	23.0%	100.0%	0.29	0.01	0.05	0.01	0.12	0.51	54.8%	31.8%	1.4%	5.2%	1.3%	13.5%	54.8%
115			21	149	4	0.89	0.02	0.14	0.01	0.16	0.75		100.0%	2.0%	16.1%	0.8%	18.4%	84.7%	0.42	0.01	0.09	0.01	0.10	0.44	49.0%	46.8%	1.5%	10.1%	0.7%	11.6%	49.0%
116			22	150	4	0.97	0.02	0.04	0.01	0.27	0.89		100.0%	2.1%	4.0%	1.0%	27.7%	92.0%	0.46	0.02	0.03	0.01	0.17	0.45	47.6%	47.6%	1.7%	3.2%	0.6%	17.8%	46.5%
117			23	151	4	0.68	0.02	0.09	0.02	0.12	0.78		86.5%	2.3%	11.2%	1.9%	15.4%	100.0%	0.20	0.01	0.05	0.01	0.08	0.42	53.3%	25.4%	1.8%	6.3%	1.5%	10.0%	53.3%
118			29	157	10	2.14	0.03	0.68	0.03	0.46	1.91		100.0%	1.4%	31.6%	1.2%	21.6%	89.4%	0.67	0.02	0.43	0.02	0.26	1.03	48.0%	31.5%	0.9%	19.9%	0.9%	12.0%	48.0%
119			30	158	10	1.89	0.05	0.37	0.03	0.60	1.55		100.0%	2.4%	19.5%	1.5%	31.9%	82.1%	0.91	0.04	0.23	0.01	0.45	1.00	52.8%	48.3%	2.0%	12.1%	0.7%	23.6%	52.8%
120			31	159	10	2.26	0.04	0.10	0.02	0.65	1.48		100.0%	1.5%	4.4%	1.0%	28.8%	65.6%	1.24	0.03	0.06	0.01	0.45	1.09	54.9%	54.9%	1.4%	2.8%	0.6%	19.8%	48.1%
121			32	160	10	2.42	0.07	0.18	0.02	0.88	2.47		98.2%	3.0%	7.1%	0.7%	35.8%	100.0%	1.12	0.06	0.10	0.01	0.65	1.77	71.6%	45.4%	2.2%	3.8%	0.3%	26.2%	71.6%
122			33	161	10	2.78	0.07	0.17	0.05	0.50	2.84		98.0%	2.5%	6.0%	1.8%	17.5%	100.0%	0.95	0.05	0.09	0.04	0.28	1.47	51.7%	33.5%	1.7%	3.1%	1.4%	9.7%	51.7%
123			38	166	10	1.72	0.04	0.58	0.04	0.42	1.65		100.0%	2.0%	33.8%	2.0%	24.4%	96.2%	0.77	0.03	0.39	0.02	0.30	1.02	59.5%	44.7%	1.6%	22.6%	1.2%	17.4%	59.5%
124			39	167	10	2.06	0.07	0.13	0.01	0.52	1.27		100.0%	3.5%	6.1%	0.4%	25.0%	61.7%	1.19	0.05	0.08	0.01	0.37	0.91	57.5%	57.5%	2.5%	3.7%	0.3%	17.7%	43.9%
125			40	168	10	2.66	0.06	0.09	0.02	0.95	1.90		100.0%	2.3%	3.5%	0.7%	35.9%	71.4%	1.33	0.05	0.05	0.01	0.68	1.46	54.9%	50.0%	1.8%	2.0%	0.5%	25.7%	54.9%
126			41	169	10	2.32	0.07	0.17	0.04	0.40	2.60		89.1%	2.7%	6.5%	1.3%	15.3%	100.0%	0.82	0.05	0.11	0.03	0.21	1.44	55.5%	31.5%	1.8%	4.3%	1.1%	8.2%	55.5%

Table 7. PD of Ant K – patch antenna (39GHz – n260)

[Folder Open Status]

- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						100.0%	1.5%	53.5%	2.7%	48.0%	95.9%	4cm2 PD(mW/cm2) at 10mm evaluation distance						68.9%	68.9%	1.3%	33.7%	2.6%	22.2%	64.2%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.17	0.00	0.03	0.00	0.05	0.09	100.0%	0.6%	15.6%	1.2%	27.7%	49.7%	0.06	0.00	0.02	0.00	0.02	0.05	32.9%	32.9%	0.6%	10.4%	0.6%	11.0%	29.5%
65			3		1	0.19	0.00	0.02	0.00	0.06	0.09	100.0%	0.5%	12.9%	0.5%	32.8%	49.5%	0.09	0.00	0.02	0.00	0.02	0.05	48.9%	48.9%	0.5%	8.1%	0.5%	10.8%	24.7%
66			5		1	0.21	0.00	0.03	0.00	0.07	0.12	100.0%	0.5%	13.6%	0.5%	33.2%	56.5%	0.11	0.00	0.02	0.00	0.02	0.06	50.5%	50.5%	0.0%	8.4%	0.0%	9.8%	28.0%
67			7		1	0.20	0.00	0.04	0.00	0.06	0.11	100.0%	0.5%	19.0%	0.0%	31.8%	57.4%	0.09	0.00	0.02	0.00	0.02	0.05	46.7%	46.7%	0.5%	10.8%	0.0%	10.3%	26.2%
68			9		1	0.16	0.00	0.04	0.00	0.07	0.10	100.0%	0.0%	25.6%	0.0%	39.6%	59.8%	0.08	0.00	0.02	0.00	0.03	0.04	47.0%	47.0%	0.0%	12.8%	0.0%	15.2%	24.4%
69			14		2	0.36	0.00	0.09	0.00	0.08	0.18	100.0%	0.6%	24.8%	0.8%	21.1%	51.5%	0.08	0.00	0.06	0.00	0.02	0.09	25.9%	23.7%	0.6%	16.3%	0.6%	5.9%	25.9%
70			15		2	0.38	0.00	0.07	0.00	0.16	0.25	100.0%	0.3%	17.2%	0.0%	41.4%	66.5%	0.24	0.00	0.03	0.00	0.07	0.13	63.1%	63.1%	0.3%	7.9%	0.0%	17.7%	33.8%
71			16		2	0.43	0.00	0.07	0.00	0.13	0.24	100.0%	0.2%	17.4%	0.2%	31.1%	56.9%	0.19	0.00	0.05	0.00	0.05	0.13	44.7%	44.7%	0.2%	11.1%	0.2%	11.8%	29.4%
72			17		2	0.37	0.00	0.09	0.00	0.08	0.19	100.0%	0.3%	24.0%	0.8%	23.0%	52.2%	0.07	0.00	0.06	0.00	0.03	0.09	25.4%	19.7%	0.3%	16.1%	0.8%	6.8%	25.4%
73			21		2	0.38	0.00	0.09	0.00	0.15	0.19	100.0%	0.3%	23.7%	0.3%	39.6%	50.8%	0.22	0.00	0.05	0.00	0.06	0.10	57.7%	57.7%	0.3%	12.8%	0.3%	15.2%	27.4%
74			22		2	0.40	0.00	0.03	0.00	0.16	0.26	100.0%	0.3%	8.3%	0.3%	39.1%	65.4%	0.26	0.00	0.02	0.00	0.06	0.15	65.2%	65.2%	0.3%	4.3%	0.3%	14.9%	38.4%
75			23		2	0.33	0.00	0.11	0.00	0.11	0.19	100.0%	0.3%	32.6%	0.3%	34.4%	57.1%	0.12	0.00	0.06	0.00	0.05	0.09	36.3%	36.3%	0.3%	19.0%	0.3%	15.1%	28.1%
76			29		5	0.70	0.00	0.37	0.01	0.24	0.42	100.0%	0.6%	53.5%	0.7%	34.4%	59.9%	0.32	0.00	0.23	0.00	0.10	0.18	45.6%	45.6%	0.4%	33.7%	0.6%	14.5%	26.2%
77			30		5	0.78	0.00	0.08	0.00	0.35	0.48	100.0%	0.5%	9.8%	0.1%	44.9%	61.4%	0.49	0.00	0.04	0.00	0.16	0.30	63.4%	63.4%	0.4%	5.3%	0.1%	20.6%	39.0%
78			31		5	0.95	0.00	0.07	0.00	0.42	0.57	100.0%	0.4%	6.9%	0.2%	43.9%	60.3%	0.65	0.00	0.03	0.00	0.19	0.32	68.9%	68.9%	0.4%	3.4%	0.2%	19.7%	34.2%
79			32		5	0.74	0.00	0.16	0.01	0.29	0.39	100.0%	0.3%	20.9%	0.7%	39.2%	52.8%	0.36	0.00	0.11	0.01	0.14	0.22	48.7%	48.7%	0.3%	14.4%	0.7%	18.6%	29.7%
80			33		5	1.30	0.00	0.53	0.01	0.32	0.73	100.0%	0.3%	40.5%	0.5%	24.9%	56.1%	0.37	0.00	0.35	0.01	0.11	0.37	28.3%	28.3%	0.2%	26.9%	0.5%	8.2%	28.3%
81			38		5	0.71	0.00	0.13	0.00	0.27	0.41	100.0%	0.6%	18.0%	0.6%	38.0%	57.1%	0.40	0.00	0.05	0.00	0.11	0.21	55.5%	55.5%	0.6%	6.7%	0.4%	15.1%	28.9%
82			39		5	0.93	0.00	0.10	0.00	0.38	0.57	100.0%	0.2%	10.3%	0.3%	40.8%	61.9%	0.59	0.00	0.04	0.00	0.18	0.34	63.2%	63.2%	0.2%	4.4%	0.2%	19.1%	36.4%
83			40		5	0.83	0.00	0.08	0.00	0.38	0.48	100.0%	0.4%	10.1%	0.2%	45.8%	57.2%	0.53	0.00	0.04	0.00	0.17	0.29	63.9%	63.9%	0.2%	5.3%	0.2%	20.8%	34.3%
84			41		5	0.94	0.00	0.31	0.01	0.31	0.60	100.0%	0.4%	33.1%	1.0%	32.8%	64.0%	0.36	0.00	0.21	0.01	0.14	0.35	38.1%	38.1%	0.3%	22.8%	0.9%	15.2%	37.4%
85			129		1	0.20	0.00	0.02	0.00	0.05	0.19	100.0%	0.5%	7.6%	0.5%	25.4%	95.9%	0.07	0.00	0.01	0.00	0.02	0.12	60.9%	37.1%	0.5%	5.1%	0.5%	8.1%	60.9%
86			131		1	0.18	0.00	0.01	0.00	0.06	0.12	100.0%	0.5%	6.0%	1.1%	31.5%	64.1%	0.08	0.00	0.01	0.00	0.02	0.06	43.5%	43.5%	0.5%	3.8%	0.5%	8.7%	34.2%
87			133		1	0.24	0.00	0.03	0.00	0.06	0.11	100.0%	0.4%	11.9%	0.4%	26.3%	48.3%	0.10	0.00	0.02	0.00	0.02	0.05	41.5%	41.5%	0.4%	7.6%	0.4%	7.2%	19.1%
88			135		1	0.21	0.00	0.02	0.00	0.07	0.10	100.0%	0.5%	9.7%	1.0%	31.9%	47.3%	0.08	0.00	0.01	0.00	0.02	0.05	36.2%	36.2%	0.5%	5.3%	1.0%	9.2%	22.7%
89			137		1	0.19	0.00	0.02	0.00	0.08	0.07	100.0%	0.5%	8.4%	1.0%	40.3%	38.2%	0.08	0.00	0.01	0.00	0.02	0.04	43.5%	43.5%	0.5%	4.7%	1.0%	12.6%	18.8%
90			142		2	0.54	0.00	0.06	0.01	0.19	0.22	100.0%	0.2%	10.9%	1.1%	36.0%	40.3%	0.20	0.00	0.03	0.01	0.05	0.09	36.5%	36.5%	0.2%	6.1%	1.1%	9.8%	16.3%
91			143		2	0.39	0.00	0.01	0.00	0.11	0.35	100.0%	0.5%	3.1%	0.3%	27.8%	90.6%	0.20	0.00	0.01	0.00	0.04	0.25	64.2%	52.7%	0.3%	2.1%	0.3%	10.4%	64.2%
92			144		2	0.42	0.00	0.07	0.01	0.12	0.20	100.0%	0.2%	16.3%	1.2%	28.8%	48.8%	0.16	0.00	0.04	0.00	0.04	0.10	37.3%	37.3%	0.2%	10.3%	1.0%	8.9%	23.3%
93			145		2	0.38	0.00	0.04	0.01	0.12	0.26	100.0%	0.5%	11.3%	1.3%	30.4%	67.7%	0.16	0.00	0.03	0.00	0.04	0.13	41.2%	41.2%	0.5%	6.8%	1.0%	9.4%	33.6%
94			149		2	0.40	0.00	0.03	0.00	0.14	0.25	100.0%	0.7%	7.5%	0.2%	35.9%	61.8%	0.23	0.00	0.02	0.00	0.05	0.13	57.9%	57.9%	0.5%	4.5%	0.2%	13.2%	31.9%
95			150		2	0.29	0.00	0.03	0.00	0.11	0.10	100.0%	0.3%	8.7%	1.4%	39.4%	36.2%	0.12	0.00	0.01	0.00	0.03	0.06	40.4%	40.4%	0.3%	3.8%	1.0%	11.8%	21.3%
96			151		2	0.49	0.00	0.06	0.01	0.14	0.20	100.0%	0.2%	12.8%	1.0%	28.6%	42.0%	0.17	0.00	0.04	0.01	0.04	0.09	34.8%	34.8%	0.2%	8.4%	1.0%	8.2%	18.1%
97			157		5	1.04	0.00	0.18	0.01	0.44	0.68	100.0%	0.4%	17.0%	0.5%	42.3%	65.7%	0.52	0.00	0.11	0.00	0.15	0.38	50.0%	50.0%	0.3%	10.5%	0.4%	14.9%	36.3%
98			158		5	0.84	0.01	0.04	0.00	0.32	0.59	100.0%	1.5%	4.6%	0.1%	38.1%	70.0%	0.52	0.01	0.02	0.00	0.12	0.34	61.4%	61.4%	1.3%	2.1%	0.1%	14.3%	40.5%
99			159		5	0.66	0.01	0.04	0.00	0.21	0.48	100.0%	1.1%	5.3%	0.5%	31.8%	72.9%	0.34	0.01	0.01	0.00	0.09	0.34	51.4%	50.9%	0.9%	1.8%	0.5%	14.0%	51.4%
100			160		5	0.96	0.00	0.19	0.03	0.31	0.68	100.0%	0.3%	19.4%	2.7%	32.6%	70.0%	0.32	0.00	0.12	0.03	0.10	0.41	42.6%	33.1%	0.2%	12.1%	2.6%	9.9%	42.6%
101			161		5	1.06	0.00	0.25	0.01	0.46	0.58	100.0%	0.3%	23.8%	0.9%	43.9%	54.3%	0.47	0.00	0.16	0.01	0.18	0.26	44.2%	44.2%	0.3%	14.8%	0.8%	17.0%	24.9%
102			166		5	1.09	0.01	0.05	0.00	0.41	0.75	100.0%	1.1%	4.3%	0.3%	37.3%	68.3%	0.70	0.01	0.03	0.00	0.17	0.41	63.8%	63.8%	1.0%	2.8%	0.3%	15.6%	37.5%
103			167		5	0.83	0.01	0.04	0.00	0.30	0.59	100.0%	0.8%	4.2%	0.2%	36.7%	70.9%	0.42	0.01	0.02	0.00	0.13	0.42	51.2%	51.2%	0.7%	2.2%	0.2%	15.3%	50.4%
104			168		5	0.69	0.01	0.11	0.00	0.26	0.46	100.0%	0.9%	15.4%	0.4%	37.6%	66.7%	0.46	0.01	0.05	0.00	0.10	0.24	65.9%	65.9%	0.9%	6.9%	0.3%	14.3%	35.2%
105			169		5	1.09	0.00	0.23	0.03	0.44	0.50	100.0%	0.2%	21.2%	2.6%	40.3%	45.8%	0.42	0.00	0.15	0.03	0.16	0.29	38.2%	38.2%	0.2%	13.6%	2.4%	14.8%	26.2%
106			1	129	2	0.42	0.00	0.05	0.00	0.12	0.39	100.0%	0.5%	11.9%	0.7%	27.3%	93.6%	0.17	0.00	0.04	0.00	0.04	0.24	57.0%	39.7%	0.5%	8.3%	0.7%	9.3%	57.0%
107			3	131	2	0.46	0.00	0.05	0.00	0.17	0.29	100.0%	0.4%	10.4%	0.6%	35.9%	61.7%	0.23	0.00	0.03	0.00	0.05	0.15	50.2%	50.2%	0.2%	6.9%	0.6%	10.8%	32.3%
108			5	133	2	0.52	0.00	0.08	0.00	0.17	0.28	100.0%	0.4%	15.7%	0.6%	33.3%	54.8%	0.27	0.00	0.05	0.00	0.06	0.12	51.4%	51.4%	0.2%	10.5%	0.4%	10.7%	22.7%
109			7	135	2	0.47	0.00	0.08	0.00	0.19	0.25	100.0%	0.4%	17.6%	0.6%	40.5%	53.6%	0.23	0.00	0.05	0.00	0.06	0.11	48.7%	48.7%	0.2%	10.0%	0.4%	13.1%	22.9%
110			9	137	2	0.44	0.00	0.07	0.00	0.19	0.22	100.0%	0.2%	15.2%	0.9%	42.5%	50.1%	0.23	0.00	0.04	0.00	0.06	0.10	51.7%	51.7%	0.2%	9.0%	0.7%	14.3%	23.0%
111			14	142	4	1.03	0.01	0.24	0.02	0.29	0.48	100.0%	0.5%	23.0%	1.6%	27.9%	46.8%	0.34	0.01	0.15	0.02	0.08	0.23	33.0%	33.0%	0.5%	14.3%	1.5%	7.6%	22.7%
112			15	143	4	0.74	0.00	0.09	0.00	0.25	0.54	100.0%	0.4%	12.6%	0.3%	34.2%	73.0%	0.38	0.00	0.04	0.00	0.11	0.36	51.0%	51.0%	0.4%	6.0%	0.3%	15.3%	48.3%
113			16	144	4	1.00	0.00	0.21	0.01	0.29	0.52	100.0%	0.3%	21.1%	0.9%	28.6%	52.2%	0.38	0.00	0.13	0.01	0.09	0.23	38.5%	38.5%	0.3%	13.5%	0.8%	9.3%	23.4%
114			17	145	4	0.88	0.00	0.18	0.01	0.22	0.64	100.0%	0.5%	20.6%	1.4%	25.3%	72.4%	0.35	0.00	0.12	0.01	0.08	0.30	39.8%	39.8%	0.5%	14.1%	1.2%	8.8%	33.8%
115			21	149	4	1.02	0.00	0.16	0.00	0.42	0.55	100.0%	0.4%	15.3%	0.4%	41.2%	53.8%	0.62	0.00	0.10	0.00	0.15	0.29	60.2%	60.2%	0.4%	9.5%	0.4%	15.0%	27.9%
116			22	150	4	0.72	0.00	0.07	0.01	0.28	0.40	100.0%	0.4%	9.4%	0.7%	39.1%	54.6%	0.40	0.00	0.03	0.01	0.11	0.24	55.5%	55.5%	0.4%	4.1%	0.7%	14.8%	32.5%
117			23	151	4	0.78	0.00	0.20	0.01	0.26	0.36	100.0%	0.4%	25.1%	0.9%	33.7%	46.3%	0.30	0.00	0.13	0.01	0.09	0.21	38.0%	38.0%	0.4%	16.2%	0.8%	12.1%	26.5%
118			29	157	10	2.44	0.01	0.84	0.01	1.10	1.62	100.0%	0.5%	34.5%	0.5%	45.0%	66.1%	1.41	0.01	0.55	0.01	0.43	0.79	57.8%	57.8%	0.4%	22.4%	0.4%	17.7%	32.5%
119			30	158	10	2.13	0.03	0.18	0.00	1.02	1.54	100.0%	1.2%	8.4%	0.1%	48.0%	72.5%	1.44	0.02	0.08	0.00	0.43	0.94	67.8%	67.8%	1.0%	3.7%	0.1%	20.3%	43.9%
120			31	159	10	1.83	0.01	0.10	0.01	0.78	1.09	100.0%	0.8%	5.5%	0.3%	42.3%	59.2%	1.15	0.01	0.06	0.01	0.37	0.72	62.9%	62.9%	0.7%	3.1%	0.3%	20.3%	39.4%
121			32	160	10	2.04	0.01	0.61	0.04	0.65	1.46	100.0%	0.2%	29.7%	1.7%	32.0%	71.8%	0.85	0.00	0.39	0.03	0.23	0.90	44.3%	41.8%	0.2%	19.1%	1.6%	11.3%	44.3%
122			33	161	10	3.36	0.01	1.21	0.03	0.95	1.46	100.0%	0.3%	35.9%	0.8%	28.3%	43.4%	1.05	0.01	0.82	0.03	0.40	0.74	31.4%	31.4%	0.2%	24.2%	0.7%	11.9%	22.0%
123			38	166	10	2.54	0.02	0.25	0.01	1.00	1.77	100.0%	0.6%	9.9%	0.4%	39.3%	69.9%	1.63	0.01	0.11	0.01	0.41	0.95	64.2%	64.2%	0.5%	4.2%	0.3%	16.1%	37.3%
124			39	167	10	2.03	0.01	0.18	0.00	0.96	1.32	100.0%	0.6%	8.6%	0.2%	47.4%	64.7%	1.32	0.01	0.07	0.00	0.45	0.86	64.9%	64.9%	0.5%	3.6%	0.1%	22.2%	42.4%
125			40	168	10	1.78	0.01	0.21	0.01	0.76	0.99	100.0%	0.6%	11.8%	0.4%	42.8%	55.8%	1.14	0.01	0.10	0.01	0.34	0.51	64.3%	64.3%	0.5%	5.6%	0.3%	19.0%	28.7%
126			41	169	10	2.80	0.01	0.83	0.04	0.89	1.62	100.0%	0.3%	29.5%	1.5%	31.6%	57.8%	1.05	0.01	0.56	0.04	0.30	0.96	37.5%	37.5%	0.3%	19.9%	1.4%	10.8%	34.1%

- K–patch Mid CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						100.0%	1.6%	47.4%	1.9%	50.3%	96.8%	4cm2 PD(mW/cm2) at 10mm evaluation distance						70.3%	70.3%	1.4%	32.5%	1.8%	26.5%	55.5%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.22	0.00	0.02	0.00	0.07	0.10	100.0%	0.0%	8.8%	0.5%	34.0%	47.0%	0.10	0.00	0.01	0.00	0.02	0.04	48.4%	48.4%	0.0%	6.5%	0.5%	11.2%	19.5%
65			3		1	0.25	0.00	0.03	0.00	0.07	0.13	100.0%	0.0%	11.3%	0.4%	29.8%	51.2%	0.12	0.00	0.02	0.00	0.02	0.05	50.0%	50.0%	0.0%	7.3%	0.4%	9.3%	19.4%
66			5		1	0.27	0.00	0.02	0.00	0.08	0.16	100.0%	0.4%	7.8%	0.4%	30.7%	60.7%	0.14	0.00	0.01	0.00	0.03	0.07	52.2%	52.2%	0.4%	4.4%	0.4%	10.0%	25.2%
67			7		1	0.22	0.00	0.03	0.00	0.07	0.14	100.0%	0.5%	14.9%	0.5%	32.9%	64.9%	0.11	0.00	0.02	0.00	0.03	0.07	49.5%	49.5%	0.5%	7.7%	0.5%	11.3%	29.3%
68			9		1	0.22	0.00	0.05	0.00	0.08	0.14	100.0%	0.5%	21.8%	0.0%	35.2%	65.3%	0.10	0.00	0.02	0.00	0.03	0.07	44.9%	44.9%	0.5%	11.1%	0.0%	13.0%	33.3%
69			14		2	0.41	0.00	0.09	0.00	0.09	0.20	100.0%	0.2%	21.0%	0.5%	22.0%	47.7%	0.12	0.00	0.06	0.00	0.03	0.08	29.1%	29.1%	0.2%	14.7%	0.5%	7.1%	18.3%
70			15		2	0.44	0.00	0.07	0.00	0.17	0.33	100.0%	0.5%	15.3%	0.0%	37.9%	76.3%	0.26	0.00	0.03	0.00	0.07	0.19	58.7%	58.7%	0.2%	6.8%	0.0%	15.3%	43.6%
71			16		2	0.53	0.00	0.06	0.00	0.17	0.32	100.0%	0.4%	11.7%	0.2%	32.7%	60.5%	0.28	0.00	0.04	0.00	0.06	0.15	52.2%	52.2%	0.2%	7.0%	0.2%	12.1%	29.1%
72			17		2	0.43	0.00	0.08	0.00	0.10	0.21	100.0%	0.2%	19.3%	0.7%	23.2%	49.0%	0.12	0.00	0.06	0.00	0.03	0.09	27.8%	27.8%	0.2%	13.5%	0.5%	7.4%	20.4%
73			21		2	0.41	0.00	0.06	0.00	0.14	0.23	100.0%	0.5%	15.3%	0.5%	33.6%	56.9%	0.23	0.00	0.04	0.00	0.06	0.12	56.4%	56.4%	0.5%	9.0%	0.2%	13.4%	28.2%
74			22		2	0.53	0.00	0.06	0.00	0.19	0.36	100.0%	0.2%	10.6%	0.0%	35.7%	68.4%	0.32	0.00	0.02	0.00	0.08	0.18	60.5%	60.5%	0.2%	4.0%	0.0%	14.3%	33.3%
75			23		2	0.45	0.00	0.12	0.00	0.17	0.25	100.0%	0.2%	26.5%	0.2%	36.6%	54.1%	0.22	0.00	0.06	0.00	0.07	0.09	48.3%	48.3%	0.2%	13.7%	0.2%	15.7%	20.3%
76			29		5	0.84	0.00	0.40	0.00	0.23	0.50	100.0%	0.5%	47.4%	0.4%	27.1%	58.9%	0.34	0.00	0.27	0.00	0.09	0.21	40.8%	40.8%	0.5%	32.5%	0.4%	11.2%	25.1%
77			30		5	1.02	0.00	0.07	0.00	0.37	0.66	100.0%	0.2%	7.0%	0.3%	36.2%	64.5%	0.62	0.00	0.04	0.00	0.16	0.35	60.8%	60.8%	0.2%	4.0%	0.2%	16.0%	33.7%
78			31		5	1.17	0.00	0.07	0.00	0.47	0.79	100.0%	0.3%	5.8%	0.2%	40.4%	67.6%	0.78	0.00	0.03	0.00	0.21	0.42	67.1%	67.1%	0.2%	2.5%	0.1%	17.7%	35.7%
79			32		5	1.17	0.00	0.31	0.00	0.46	0.65	100.0%	0.3%	26.7%	0.3%	39.0%	55.8%	0.67	0.00	0.15	0.00	0.21	0.33	57.6%	57.6%	0.3%	12.5%	0.3%	17.9%	28.3%
80			33		5	1.25	0.00	0.44	0.01	0.35	0.77	100.0%	0.2%	35.1%	0.7%	28.2%	61.3%	0.40	0.00	0.29	0.01	0.14	0.33	31.7%	31.7%	0.2%	23.3%	0.6%	10.8%	26.3%
81			38		5	0.86	0.00	0.16	0.00	0.30	0.49	100.0%	0.2%	18.1%	0.2%	34.5%	56.7%	0.48	0.00	0.08	0.00	0.13	0.28	55.9%	55.9%	0.2%	8.7%	0.2%	14.9%	32.2%
82			39		5	1.15	0.00	0.07	0.00	0.43	0.75	100.0%	0.2%	6.1%	0.3%	37.5%	65.6%	0.72	0.00	0.03	0.00	0.20	0.39	62.3%	62.3%	0.2%	2.5%	0.3%	17.2%	34.1%
83			40		5	1.22	0.00	0.14	0.00	0.53	0.70	100.0%	0.2%	11.2%	0.2%	43.4%	57.3%	0.83	0.00	0.05	0.00	0.24	0.41	67.9%	67.9%	0.2%	3.9%	0.2%	19.4%	33.6%
84			41		5	1.22	0.00	0.29	0.01	0.43	0.72	100.0%	0.2%	23.4%	0.7%	35.4%	59.5%	0.57	0.00	0.19	0.01	0.19	0.36	47.2%	47.2%	0.2%	15.3%	0.7%	16.0%	29.5%
85			129		1	0.22	0.00	0.01	0.00	0.06	0.21	100.0%	0.5%	6.0%	0.5%	29.0%	96.8%	0.11	0.00	0.01	0.00	0.02	0.10	49.3%	49.3%	0.5%	4.1%	0.5%	11.1%	45.2%
86			131		1	0.25	0.00	0.02	0.00	0.06	0.15	100.0%	0.4%	8.5%	0.8%	24.4%	61.8%	0.09	0.00	0.02	0.00	0.02	0.08	35.4%	35.4%	0.4%	6.1%	0.8%	8.9%	33.3%
87			133		1	0.24	0.00	0.03	0.00	0.09	0.10	100.0%	0.8%	12.4%	0.4%	36.0%	40.1%	0.11	0.00	0.02	0.00	0.04	0.04	45.0%	45.0%	0.8%	7.9%	0.4%	14.5%	16.9%
88			135		1	0.29	0.00	0.04	0.00	0.09	0.12	100.0%	0.3%	15.1%	0.3%	29.9%	42.6%	0.13	0.00	0.02	0.00	0.03	0.05	44.0%	44.0%	0.3%	8.2%	0.3%	10.3%	18.6%
89			137		1	0.20	0.00	0.03	0.00	0.08	0.07	100.0%	0.5%	14.4%	0.5%	38.5%	37.9%	0.10	0.00	0.02	0.00	0.02	0.03	49.7%	49.7%	0.5%	7.7%	0.5%	11.8%	16.4%
90			142		2	0.63	0.00	0.12	0.00	0.20	0.22	100.0%	0.3%	19.0%	0.6%	31.8%	35.5%	0.22	0.00	0.06	0.00	0.06	0.07	34.9%	34.9%	0.3%	10.1%	0.5%	9.4%	11.5%
91			143		2	0.41	0.00	0.01	0.00	0.14	0.35	100.0%	0.7%	2.9%	0.2%	33.7%	86.7%	0.24	0.00	0.01	0.00	0.06	0.23	59.0%	59.0%	0.7%	1.7%	0.2%	15.5%	55.5%
92			144		2	0.50	0.00	0.10	0.01	0.15	0.22	100.0%	0.2%	19.3%	1.0%	29.6%	44.9%	0.24	0.00	0.06	0.00	0.05	0.11	48.1%	48.1%	0.2%	11.7%	0.8%	9.3%	21.7%
93			145		2	0.52	0.00	0.05	0.01	0.11	0.39	100.0%	0.2%	10.0%	1.0%	20.3%	73.9%	0.19	0.00	0.03	0.01	0.03	0.17	36.5%	36.5%	0.2%	6.5%	1.0%	5.4%	32.4%
94			149		2	0.47	0.00	0.05	0.00	0.18	0.33	100.0%	0.9%	11.5%	0.2%	39.0%	69.3%	0.28	0.00	0.03	0.00	0.08	0.17	59.5%	59.5%	0.9%	7.2%	0.2%	17.7%	36.7%
95			150		2	0.39	0.00	0.06	0.00	0.13	0.19	100.0%	0.3%	16.6%	0.5%	32.5%	49.4%	0.22	0.00	0.03	0.00	0.04	0.10	56.9%	56.9%	0.3%	8.3%	0.5%	10.9%	26.2%
96			151		2	0.56	0.00	0.09	0.01	0.12	0.21	100.0%	0.2%	15.5%	1.1%	22.3%	36.9%	0.16	0.00	0.06	0.01	0.04	0.10	29.5%	29.5%	0.2%	10.3%	0.9%	6.5%	18.2%
97			157		5	1.11	0.01	0.35	0.01	0.35	0.78	100.0%	0.5%	31.8%	0.5%	31.9%	70.6%	0.52	0.01	0.21	0.00	0.12	0.37	46.7%	46.7%	0.5%	18.9%	0.4%	10.7%	33.5%
98			158		5	1.18	0.02	0.04	0.00	0.52	0.78	100.0%	1.6%	3.1%	0.2%	44.4%	66.4%	0.83	0.02	0.02	0.00	0.27	0.49	70.3%	70.3%	1.4%	1.7%	0.1%	22.9%	41.8%
99			159		5	0.78	0.01	0.05	0.00	0.31	0.45	100.0%	0.8%	6.5%	0.3%	40.3%	57.6%	0.48	0.01	0.02	0.00	0.14	0.26	61.9%	61.9%	0.6%	2.6%	0.3%	18.1%	32.7%
100			160		5	1.04	0.00	0.33	0.02	0.38	0.70	100.0%	0.2%	31.7%	1.9%	36.9%	67.6%	0.51	0.00	0.21	0.02	0.12	0.36	49.1%	49.1%	0.2%	19.7%	1.8%	11.3%	34.1%
101			161		5	1.18	0.01	0.40	0.01	0.43	0.76	100.0%	0.4%	33.6%	0.8%	36.1%	64.6%	0.45	0.01	0.24	0.01	0.12	0.41	38.1%	38.1%	0.4%	20.1%	0.6%	10.0%	34.5%
102			166		5	1.24	0.01	0.08	0.00	0.55	0.81	100.0%	0.6%	6.1%	0.3%	44.4%	65.0%	0.86	0.01	0.04	0.00	0.25	0.47	69.2%	69.2%	0.6%	3.3%	0.2%	20.2%	38.2%
103			167		5	0.76	0.01	0.04	0.00	0.36	0.51	100.0%	1.6%	5.0%	0.3%	48.0%	67.5%	0.48	0.01	0.02	0.00	0.20	0.33	63.5%	63.5%	1.3%	2.6%	0.1%	26.5%	44.0%
104			168		5	0.93	0.00	0.08	0.00	0.40	0.54	100.0%	0.3%	8.5%	0.2%	42.7%	58.7%	0.60	0.00	0.02	0.00	0.18	0.33	64.7%	64.7%	0.3%	2.2%	0.2%	19.5%	35.5%
105			169		5	1.17	0.01	0.38	0.02	0.40	0.55	100.0%	0.4%	32.6%	1.5%	33.8%	47.3%	0.55	0.01	0.25	0.02	0.12	0.26	46.9%	46.9%	0.4%	21.0%	1.4%	10.6%	22.2%
106			1	129	2	0.46	0.00	0.05	0.00	0.16	0.36	100.0%	0.4%	10.2%	0.7%	34.1%	78.5%	0.23	0.00	0.03	0.00	0.06	0.20	49.2%	49.2%	0.4%	6.9%	0.7%	11.9%	44.0%
107			3	131	2	0.52	0.00	0.08	0.00	0.18	0.31	100.0%	0.4%	16.0%	0.6%	34.2%	59.4%	0.26	0.00	0.06	0.00	0.06	0.13	50.4%	50.4%	0.4%	11.3%	0.6%	12.0%	25.2%
108			5	133	2	0.60	0.00	0.07	0.00	0.22	0.31	100.0%	0.3%	11.9%	0.5%	37.1%	52.4%	0.29	0.00	0.05	0.00	0.08	0.13	48.6%	48.6%	0.3%	7.7%	0.5%	13.6%	21.7%
109			7	135	2	0.56	0.00	0.10	0.00	0.21	0.29	100.0%	0.4%	18.2%	0.5%	37.1%	51.7%	0.29	0.00	0.06	0.00	0.07	0.10	52.8%	52.8%	0.2%	10.1%	0.5%	11.9%	18.6%
110			9	137	2	0.48	0.00	0.09	0.00	0.18	0.27	100.0%	0.4%	19.3%	0.4%	37.5%	57.2%	0.24	0.00	0.05	0.00	0.06	0.13	51.2%	51.2%	0.4%	10.7%	0.4%	12.6%	26.6%
111			14	142	4	0.99	0.00	0.27	0.01	0.31	0.47	100.0%	0.4%	27.5%	1.0%	31.2%	47.0%	0.37	0.00	0.17	0.01	0.09	0.20	37.4%	37.4%	0.4%	16.7%	0.8%	9.5%	19.6%
112			15	143	4	0.79	0.00	0.09	0.00	0.28	0.54	100.0%	0.5%	11.7%	0.3%	35.0%	68.7%	0.48	0.00	0.05	0.00	0.12	0.27	60.4%	60.4%	0.5%	5.9%	0.3%	14.6%	34.6%
113			16	144	4	1.08	0.00	0.19	0.01	0.39	0.65	100.0%	0.3%	17.8%	0.7%	35.5%	60.0%	0.53	0.00	0.13	0.01	0.13	0.31	48.6%	48.6%	0.3%	11.6%	0.6%	12.0%	28.5%
114			17	145	4	1.18	0.00	0.24	0.01	0.32	0.65	100.0%	0.3%	20.0%	0.8%	27.6%	55.7%	0.39	0.00	0.17	0.01	0.09	0.32	33.4%	33.4%	0.3%	14.2%	0.7%	7.7%	26.9%
115			21	149	4	1.08	0.01	0.19	0.00	0.41	0.66	100.0%	0.6%	17.1%	0.3%	37.7%	61.1%	0.63	0.01	0.12	0.00	0.18	0.29	58.3%	58.3%	0.6%	11.3%	0.3%	16.8%	27.0%
116			22	150	4	1.00	0.00	0.12	0.00	0.37	0.57	100.0%	0.2%	12.2%	0.4%	37.0%	56.8%	0.60	0.00	0.06	0.00	0.14	0.29	60.1%	60.1%	0.2%	6.2%	0.3%	13.7%	29.2%
117			23	151	4	0.92	0.00	0.27	0.01	0.35	0.40	100.0%	0.4%	28.8%	0.9%	37.6%	43.2%	0.37	0.00	0.16	0.01	0.14	0.17	40.1%	40.1%	0.3%	17.8%	0.9%	14.8%	18.6%
118			29	157	10	2.93	0.02	1.28	0.01	0.83	1.45	100.0%	0.5%	43.8%	0.3%	28.2%	49.6%	1.35	0.01	0.85	0.01	0.33	0.66	46.1%	46.1%	0.5%	29.1%	0.3%	11.3%	22.4%
119			30	158	10	2.77	0.03	0.15	0.01	1.29	1.76	100.0%	1.0%	5.6%	0.2%	46.4%	63.3%	1.94	0.03	0.07	0.01	0.62	1.01	69.9%	69.9%	0.9%	2.5%	0.2%	22.3%	36.5%
120			31	159	10	2.07	0.01	0.12	0.01	0.86	1.41	100.0%	0.4%	5.9%	0.3%	41.6%	68.2%	1.36	0.01	0.06	0.01	0.40	0.75	65.4%	65.4%	0.3%	3.1%	0.3%	19.1%	36.4%
121			32	160	10	2.58	0.01	0.68	0.03	0.78	1.85	100.0%	0.2%	26.3%	1.2%	30.3%	71.7%	1.35	0.01	0.46	0.03	0.31	1.05	52.3%	52.3%	0.2%	17.8%	1.0%	11.9%	40.5%
122			33	161	10	3.74	0.01	1.31	0.03	1.20	1.60	100.0%	0.4%	34.9%	0.9%	32.0%	42.7%	1.18	0.01	0.87	0.03	0.43	0.76	31.6%	31.6%	0.3%	23.3%	0.7%	11.6%	20.3%
123			38	166	10	2.65	0.01	0.40	0.01	1.12	1.68	100.0%	0.5%	15.0%	0.3%	42.4%	63.4%	1.85	0.01	0.20	0.01	0.50	1.01	69.9%	69.9%	0.5%	7.6%	0.2%	19.0%	38.0%
124			39	167	10	2.40	0.02	0.17	0.01	1.21	1.44	100.0%	0.6%	7.1%	0.2%	50.3%	60.1%	1.54	0.01	0.08	0.00	0.61	0.78	64.1%	64.1%	0.5%	3.3%	0.2%	25.3%	32.6%
125			40	168	10	2.35	0.01	0.25	0.01	1.07	1.36	100.0%	0.3%	10.4%	0.2%	45.4%	57.9%	1.57	0.01	0.07	0.00	0.49	0.81	66.9%	66.9%	0.3%	3.0%	0.2%	21.0%	34.6%
126			41	169	10	3.06	0.01	0.87	0.04	1.04	1.80	100.0%	0.3%	28.6%	1.3%	34.0%	58.9%	1.38	0.01	0.60	0.03	0.38	0.92	45.3%	45.3%	0.3%	19.8%	1.1%	12.5%	30.2%

- K–patch High CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						100.0%	1.2%	39.2%	2.1%	64.9%	66.4%	4cm2 PD(mW/cm2) at 10mm evaluation distance						68.3%	68.3%	1.2%	26.3%	2.1%	28.9%	38.3%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.21	0.00	0.02	0.00	0.07	0.09	100.0%	0.5%	8.2%	0.5%	31.7%	44.2%	0.10	0.00	0.01	0.00	0.02	0.04	47.6%	47.6%	0.5%	5.8%	0.5%	9.6%	20.7%
65			3		1	0.21	0.00	0.03	0.00	0.06	0.12	100.0%	0.5%	12.7%	0.5%	29.7%	54.7%	0.10	0.00	0.02	0.00	0.02	0.04	44.8%	44.8%	0.5%	8.0%	0.5%	9.4%	20.8%
66			5		1	0.24	0.00	0.02	0.00	0.08	0.14	100.0%	0.4%	9.7%	0.4%	31.6%	59.1%	0.11	0.00	0.01	0.00	0.02	0.06	46.4%	46.4%	0.4%	5.9%	0.4%	9.7%	26.6%
67			7		1	0.24	0.00	0.03	0.00	0.08	0.14	100.0%	0.4%	14.3%	0.4%	32.9%	60.8%	0.12	0.00	0.02	0.00	0.03	0.06	48.9%	48.9%	0.4%	8.0%	0.4%	10.5%	24.1%
68			9		1	0.21	0.00	0.04	0.00	0.08	0.13	100.0%	0.5%	18.0%	0.5%	39.3%	59.7%	0.12	0.00	0.02	0.00	0.03	0.05	55.5%	55.5%	0.5%	10.0%	0.5%	13.7%	22.3%
69			14		2	0.36	0.00	0.08	0.00	0.11	0.17	100.0%	0.8%	21.3%	0.6%	29.8%	47.5%	0.11	0.00	0.05	0.00	0.03	0.07	29.6%	29.6%	0.6%	14.1%	0.3%	8.0%	18.2%
70			15		2	0.44	0.00	0.04	0.00	0.19	0.29	100.0%	0.2%	7.9%	0.2%	43.7%	65.8%	0.30	0.00	0.02	0.00	0.08	0.14	67.6%	67.6%	0.2%	3.6%	0.2%	18.2%	31.5%
71			16		2	0.48	0.00	0.06	0.00	0.14	0.29	100.0%	0.4%	11.9%	0.4%	28.3%	59.7%	0.22	0.00	0.03	0.00	0.05	0.13	46.5%	46.5%	0.4%	6.9%	0.4%	10.9%	26.8%
72			17		2	0.40	0.00	0.07	0.00	0.12	0.20	100.0%	0.8%	18.0%	0.3%	29.1%	51.6%	0.14	0.00	0.05	0.00	0.04	0.07	35.9%	35.9%	0.5%	11.9%	0.3%	9.1%	17.2%
73			21		2	0.41	0.00	0.07	0.00	0.13	0.22	100.0%	0.5%	17.0%	0.5%	31.5%	53.7%	0.19	0.00	0.04	0.00	0.06	0.10	47.0%	47.0%	0.5%	10.3%	0.2%	13.5%	25.1%
74			22		2	0.50	0.00	0.05	0.00	0.18	0.33	100.0%	0.2%	9.9%	0.2%	36.2%	66.2%	0.30	0.00	0.02	0.00	0.07	0.15	60.8%	60.8%	0.2%	4.4%	0.2%	13.9%	29.6%
75			23		2	0.46	0.00	0.12	0.00	0.15	0.26	100.0%	0.2%	27.0%	0.4%	32.5%	55.8%	0.24	0.00	0.07	0.00	0.06	0.11	51.9%	51.9%	0.2%	14.4%	0.4%	12.2%	24.2%
76			29		5	0.92	0.01	0.36	0.00	0.25	0.50	100.0%	1.0%	39.2%	0.4%	27.2%	54.2%	0.31	0.01	0.24	0.00	0.08	0.20	33.2%	33.2%	0.9%	25.7%	0.2%	9.1%	21.8%
77			30		5	0.80	0.00	0.07	0.00	0.31	0.49	100.0%	0.5%	8.2%	0.5%	38.9%	62.0%	0.46	0.00	0.04	0.00	0.14	0.24	58.0%	58.0%	0.4%	5.1%	0.5%	17.9%	29.7%
78			31		5	1.08	0.00	0.05	0.00	0.42	0.68	100.0%	0.2%	4.6%	0.2%	38.7%	63.4%	0.73	0.00	0.03	0.00	0.18	0.41	67.7%	67.7%	0.2%	2.7%	0.2%	16.5%	37.6%
79			32		5	1.09	0.00	0.33	0.00	0.36	0.72	100.0%	0.3%	29.9%	0.4%	33.4%	65.9%	0.63	0.00	0.15	0.00	0.15	0.36	58.1%	58.1%	0.2%	14.0%	0.4%	13.9%	32.5%
80			33		5	1.16	0.00	0.38	0.00	0.30	0.74	100.0%	0.3%	32.9%	0.3%	25.3%	63.7%	0.45	0.00	0.26	0.00	0.11	0.34	38.3%	38.3%	0.3%	22.3%	0.3%	9.6%	29.1%
81			38		5	0.74	0.01	0.19	0.00	0.29	0.42	100.0%	1.2%	25.6%	0.5%	38.7%	56.9%	0.42	0.01	0.12	0.00	0.13	0.22	56.9%	56.9%	1.2%	16.1%	0.4%	17.4%	29.4%
82			39		5	1.00	0.00	0.05	0.00	0.42	0.62	100.0%	0.3%	4.7%	0.4%	41.8%	62.0%	0.65	0.00	0.02	0.00	0.19	0.38	65.7%	65.7%	0.3%	2.3%	0.4%	19.5%	37.8%
83			40		5	1.07	0.00	0.11	0.00	0.40	0.68	100.0%	0.2%	10.2%	0.2%	37.9%	63.5%	0.71	0.00	0.03	0.00	0.18	0.39	66.1%	66.1%	0.2%	3.1%	0.2%	16.5%	36.6%
84			41		5	1.20	0.00	0.33	0.01	0.39	0.69	100.0%	0.3%	27.6%	0.8%	32.4%	57.6%	0.58	0.00	0.21	0.01	0.16	0.30	48.0%	48.0%	0.3%	17.2%	0.6%	13.7%	25.2%
85			129		1	0.21	0.00	0.01	0.00	0.09	0.14	100.0%	0.5%	5.6%	0.5%	41.6%	66.4%	0.10	0.00	0.01	0.00	0.03	0.07	47.7%	47.7%	0.5%	3.7%	0.5%	15.0%	31.3%
86			131		1	0.28	0.00	0.02	0.00	0.08	0.11	100.0%	0.4%	8.7%	0.7%	27.3%	41.5%	0.11	0.00	0.02	0.00	0.03	0.05	38.2%	38.2%	0.4%	5.8%	0.7%	9.1%	18.2%
87			133		1	0.28	0.00	0.03	0.00	0.10	0.11	100.0%	0.4%	11.4%	0.4%	35.4%	39.6%	0.10	0.00	0.02	0.00	0.03	0.05	34.3%	34.3%	0.4%	7.9%	0.4%	11.4%	18.2%
88			135		1	0.30	0.00	0.05	0.00	0.11	0.11	100.0%	0.3%	16.3%	0.3%	36.5%	34.9%	0.11	0.00	0.03	0.00	0.04	0.04	37.5%	37.5%	0.3%	9.3%	0.3%	11.6%	14.0%
89			137		1	0.23	0.00	0.03	0.00	0.10	0.08	100.0%	0.4%	13.5%	0.9%	41.7%	35.2%	0.10	0.00	0.02	0.00	0.03	0.04	43.9%	43.9%	0.4%	7.0%	0.4%	11.7%	17.0%
90			142		2	0.69	0.00	0.14	0.00	0.25	0.19	100.0%	0.1%	19.7%	0.6%	35.3%	27.5%	0.22	0.00	0.07	0.00	0.07	0.08	31.1%	31.1%	0.1%	10.5%	0.4%	9.5%	12.0%
91			143		2	0.41	0.00	0.01	0.00	0.20	0.25	100.0%	0.5%	3.4%	0.5%	47.7%	61.1%	0.25	0.00	0.01	0.00	0.08	0.14	61.4%	61.4%	0.5%	2.0%	0.2%	19.8%	33.7%
92			144		2	0.59	0.00	0.12	0.00	0.19	0.22	100.0%	0.2%	20.1%	0.7%	32.8%	37.1%	0.25	0.00	0.08	0.00	0.05	0.10	42.7%	42.7%	0.2%	12.8%	0.7%	9.2%	16.8%
93			145		2	0.54	0.00	0.06	0.01	0.13	0.26	100.0%	0.4%	10.7%	1.1%	23.6%	48.3%	0.16	0.00	0.04	0.01	0.03	0.12	29.9%	29.9%	0.2%	6.8%	1.1%	6.3%	21.6%
94			149		2	0.48	0.00	0.05	0.00	0.21	0.27	100.0%	0.4%	10.9%	0.2%	44.0%	56.2%	0.25	0.00	0.04	0.00	0.09	0.15	53.0%	53.0%	0.4%	7.3%	0.2%	18.0%	30.6%
95			150		2	0.39	0.00	0.06	0.00	0.17	0.21	100.0%	0.5%	15.7%	0.5%	43.7%	52.5%	0.23	0.00	0.03	0.00	0.06	0.10	59.4%	59.4%	0.3%	8.4%	0.5%	16.0%	25.9%
96			151		2	0.72	0.00	0.10	0.01	0.17	0.24	100.0%	0.3%	13.4%	0.8%	23.3%	33.3%	0.23	0.00	0.07	0.01	0.05	0.10	31.4%	31.4%	0.1%	9.2%	0.7%	6.4%	13.4%
97			157		5	1.24	0.00	0.34	0.00	0.42	0.69	100.0%	0.3%	27.7%	0.2%	34.2%	55.7%	0.51	0.00	0.22	0.00	0.14	0.38	41.5%	41.5%	0.2%	17.4%	0.2%	10.9%	30.5%
98			158		5	1.07	0.01	0.04	0.00	0.66	0.58	100.0%	0.7%	3.6%	0.3%	61.8%	53.8%	0.70	0.01	0.02	0.00	0.31	0.31	65.0%	65.0%	0.7%	1.6%	0.3%	28.9%	29.3%
99			159		5	0.90	0.01	0.05	0.00	0.52	0.41	100.0%	0.6%	5.1%	0.3%	57.9%	45.0%	0.57	0.00	0.03	0.00	0.23	0.25	62.8%	62.8%	0.4%	2.8%	0.3%	25.2%	27.4%
100			160		5	1.17	0.00	0.36	0.03	0.38	0.51	100.0%	0.3%	30.9%	2.1%	32.6%	43.5%	0.61	0.00	0.25	0.03	0.11	0.28	51.5%	51.5%	0.3%	21.1%	2.1%	9.1%	23.7%
101			161		5	1.42	0.01	0.39	0.01	0.54	0.70	100.0%	0.4%	27.8%	0.4%	37.9%	49.4%	0.54	0.00	0.26	0.00	0.17	0.37	38.0%	38.0%	0.3%	18.0%	0.3%	12.2%	26.0%
102			166		5	1.04	0.00	0.12	0.00	0.53	0.67	100.0%	0.4%	11.8%	0.3%	51.3%	64.8%	0.69	0.00	0.07	0.00	0.25	0.37	66.6%	66.6%	0.4%	6.5%	0.3%	24.2%	35.1%
103			167		5	0.81	0.01	0.06	0.00	0.53	0.37	100.0%	1.0%	6.8%	0.4%	64.9%	45.5%	0.50	0.01	0.02	0.00	0.22	0.20	61.2%	61.2%	0.9%	2.7%	0.4%	26.6%	24.2%
104			168		5	0.90	0.00	0.15	0.00	0.42	0.57	100.0%	0.3%	16.8%	0.4%	46.9%	63.7%	0.58	0.00	0.05	0.00	0.21	0.32	64.1%	64.1%	0.3%	5.2%	0.3%	23.4%	35.7%
105			169		5	1.42	0.01	0.42	0.02	0.51	0.56	100.0%	0.4%	29.8%	1.5%	35.7%	39.2%	0.65	0.01	0.29	0.02	0.15	0.24	45.5%	45.5%	0.4%	20.1%	1.4%	10.5%	17.1%
106			1	129	2	0.47	0.00	0.05	0.00	0.19	0.26	100.0%	0.4%	10.8%	0.6%	40.6%	56.6%	0.22	0.00	0.04	0.00	0.06	0.11	48.0%	48.0%	0.4%	8.0%	0.6%	12.9%	24.3%
107			3	131	2	0.53	0.00	0.08	0.00	0.18	0.27	100.0%	0.6%	14.2%	0.6%	34.5%	50.8%	0.25	0.00	0.05	0.00	0.06	0.12	48.1%	48.1%	0.6%	9.3%	0.6%	12.1%	23.5%
108			5	133	2	0.56	0.00	0.08	0.00	0.23	0.30	100.0%	0.4%	15.0%	0.5%	40.5%	52.8%	0.23	0.00	0.05	0.00	0.07	0.14	40.5%	40.5%	0.4%	9.6%	0.5%	12.3%	24.4%
109			7	135	2	0.58	0.00	0.12	0.00	0.24	0.29	100.0%	0.3%	20.7%	0.3%	41.3%	50.7%	0.27	0.00	0.07	0.00	0.10	0.13	46.2%	46.2%	0.3%	11.8%	0.3%	16.5%	21.9%
110			9	137	2	0.51	0.00	0.10	0.01	0.22	0.24	100.0%	0.6%	19.6%	1.0%	44.1%	46.8%	0.24	0.00	0.05	0.00	0.07	0.12	47.8%	47.8%	0.6%	9.5%	0.8%	14.6%	22.7%
111			14	142	4	0.96	0.01	0.24	0.01	0.34	0.41	100.0%	0.5%	25.4%	0.9%	35.3%	43.1%	0.32	0.00	0.15	0.01	0.10	0.18	33.8%	33.8%	0.4%	16.0%	0.8%	10.9%	19.1%
112			15	143	4	0.79	0.01	0.07	0.00	0.35	0.44	100.0%	0.6%	8.4%	0.4%	44.0%	55.6%	0.49	0.00	0.03	0.00	0.15	0.23	61.9%	61.9%	0.5%	4.0%	0.4%	19.2%	28.9%
113			16	144	4	1.14	0.01	0.25	0.01	0.39	0.64	100.0%	0.4%	22.2%	0.6%	33.7%	56.3%	0.50	0.00	0.16	0.01	0.13	0.32	43.9%	43.9%	0.3%	14.0%	0.6%	11.2%	27.6%
114			17	145	4	1.15	0.01	0.21	0.01	0.28	0.63	100.0%	0.6%	18.2%	1.0%	24.3%	54.9%	0.44	0.01	0.14	0.01	0.09	0.24	38.1%	38.1%	0.5%	12.1%	0.9%	7.7%	21.0%
115			21	149	4	1.03	0.01	0.18	0.00	0.42	0.63	100.0%	0.5%	17.7%	0.3%	40.6%	60.7%	0.57	0.01	0.12	0.00	0.19	0.30	55.5%	55.5%	0.5%	11.7%	0.3%	18.1%	29.2%
116			22	150	4	0.95	0.00	0.15	0.01	0.39	0.61	100.0%	0.3%	15.3%	0.5%	40.7%	63.9%	0.62	0.00	0.08	0.00	0.16	0.32	64.5%	64.5%	0.3%	8.3%	0.4%	16.5%	33.4%
117			23	151	4	1.12	0.00	0.28	0.01	0.37	0.52	100.0%	0.4%	25.0%	0.9%	32.6%	46.5%	0.50	0.00	0.18	0.01	0.13	0.27	45.0%	45.0%	0.4%	15.6%	0.8%	11.7%	24.3%
118			29	157	10	2.89	0.02	1.10	0.01	0.95	1.24	100.0%	0.8%	38.0%	0.3%	32.7%	42.9%	1.34	0.02	0.76	0.01	0.36	0.67	46.3%	46.3%	0.7%	26.3%	0.2%	12.5%	23.2%
119			30	158	10	2.50	0.01	0.16	0.01	1.38	1.35	100.0%	0.5%	6.4%	0.6%	55.3%	54.0%	1.57	0.01	0.07	0.01	0.66	0.78	62.9%	62.9%	0.5%	2.9%	0.5%	26.3%	31.1%
120			31	159	10	2.32	0.01	0.12	0.01	1.12	1.30	100.0%	0.3%	5.1%	0.4%	48.3%	56.2%	1.58	0.01	0.08	0.01	0.49	0.80	68.0%	68.0%	0.3%	3.5%	0.3%	21.0%	34.7%
121			32	160	10	2.73	0.01	0.80	0.03	0.83	1.71	100.0%	0.3%	29.3%	1.2%	30.6%	62.8%	1.53	0.01	0.51	0.03	0.31	0.85	56.1%	56.1%	0.3%	18.6%	1.1%	11.3%	31.2%
122			33	161	10	3.48	0.02	1.12	0.01	1.22	1.59	100.0%	0.5%	32.1%	0.4%	35.1%	45.7%	1.33	0.01	0.80	0.01	0.48	0.76	38.1%	38.1%	0.4%	22.9%	0.4%	13.9%	21.8%
123			38	166	10	2.53	0.02	0.52	0.01	1.26	1.51	100.0%	0.8%	20.5%	0.4%	49.7%	59.6%	1.73	0.02	0.34	0.01	0.60	0.92	68.3%	68.3%	0.7%	13.4%	0.3%	23.7%	36.6%
124			39	167	10	2.18	0.02	0.13	0.01	1.23	1.01	100.0%	0.9%	5.8%	0.5%	56.5%	46.6%	1.30	0.02	0.06	0.01	0.55	0.60	59.5%	59.5%	0.8%	2.6%	0.5%	25.4%	27.7%
125			40	168	10	2.48	0.01	0.33	0.01	1.03	1.60	100.0%	0.3%	13.3%	0.4%	41.5%	64.4%	1.69	0.01	0.09	0.01	0.47	0.95	68.2%	68.2%	0.2%	3.7%	0.4%	18.9%	38.3%
126			41	169	10	3.04	0.02	0.97	0.04	1.15	1.63	100.0%	0.5%	32.0%	1.2%	37.7%	53.6%	1.55	0.02	0.64	0.03	0.42	0.81	50.9%	50.9%	0.5%	20.9%	1.1%	13.9%	26.7%

[Folder Closed Status]

- K–patch Low CH

No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	4cm2 PD(mW/cm2)						100.0%	2.3%	53.7%	2.7%	22.2%	100.0%	4cm2 PD(mW/cm2) at 10mm evaluation distance						71.2%	71.2%	1.8%	34.8%	2.6%	13.6%	62.8%
						S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	0.16	0.00	0.02	0.00	0.02	0.09	100.0%	0.6%	15.2%	0.6%	11.4%	54.4%	0.06	0.00	0.02	0.00	0.01	0.05	36.7%	36.7%	0.6%	10.8%	0.6%	6.3%	31.0%
65			3		1	0.19	0.00	0.03	0.00	0.02	0.09	100.0%	1.1%	15.3%	0.5%	9.5%	47.9%	0.10	0.00	0.02	0.00	0.01	0.05	50.0%	50.0%	0.5%	10.0%	0.5%	4.7%	23.7%
66			5		1	0.21	0.00	0.03	0.00	0.02	0.12	100.0%	0.9%	12.7%	0.0%	9.4%	54.0%	0.11	0.00	0.02	0.00	0.01	0.06	51.2%	51.2%	0.9%	8.5%	0.0%	4.2%	27.2%
67			7		1	0.19	0.00	0.04	0.00	0.02	0.11	100.0%	1.6%	18.7%	0.0%	10.7%	57.2%	0.09	0.00	0.02	0.00	0.01	0.05	46.5%	46.5%	1.1%	11.2%	0.0%	4.8%	26.7%
68			9		1	0.16	0.00	0.05	0.00	0.02	0.10	100.0%	1.2%	27.6%	0.6%	12.9%	62.6%	0.08	0.00	0.02	0.00	0.01	0.05	46.6%	46.6%	0.6%	13.5%	0.0%	6.7%	28.8%
69			14		2	0.34	0.00	0.09	0.00	0.02	0.19	100.0%	0.9%	27.6%	0.9%	5.6%	54.3%	0.09	0.00	0.06	0.00	0.01	0.09	27.0%	27.0%	0.6%	18.5%	0.6%	3.5%	26.1%
70			15		2	0.36	0.01	0.06	0.00	0.06	0.24	100.0%	2.0%	17.5%	0.3%	18.0%	67.9%	0.23	0.01	0.03	0.00	0.04	0.13	63.9%	63.9%	1.7%	8.2%	0.3%	9.9%	36.3%
71			16		2	0.43	0.00	0.08	0.00	0.05	0.23	100.0%	0.9%	18.8%	0.2%	12.3%	53.7%	0.20	0.00	0.05	0.00	0.03	0.12	47.2%	47.2%	0.7%	12.1%	0.2%	6.3%	28.1%
72			17		2	0.36	0.00	0.09	0.00	0.02	0.20	100.0%	0.8%	26.5%	0.8%	4.5%	55.8%	0.08	0.00	0.06	0.00	0.01	0.09	26.5%	21.4%	0.6%	17.7%	0.8%	2.3%	26.5%
73			21		2	0.36	0.00	0.08	0.00	0.06	0.19	100.0%	0.8%	22.9%	0.3%	15.7%	51.9%	0.21	0.00	0.05	0.00	0.03	0.11	58.6%	58.6%	0.8%	13.5%	0.3%	8.3%	29.3%
74			22		2	0.39	0.01	0.04	0.00	0.06	0.25	100.0%	1.6%	9.6%	0.3%	15.2%	64.3%	0.26	0.01	0.02	0.00	0.03	0.15	66.9%	66.9%	1.3%	4.7%	0.0%	7.8%	38.2%
75			23		2	0.32	0.00	0.11	0.00	0.03	0.20	100.0%	1.2%	34.1%	0.3%	10.5%	62.5%	0.12	0.00	0.06	0.00	0.02	0.10	37.5%	37.5%	0.9%	19.5%	0.3%	5.3%	29.4%
76			29		5	0.68	0.01	0.37	0.01	0.10	0.39	100.0%	0.9%	53.7%	0.7%	14.9%	56.6%	0.31	0.01	0.24	0.00	0.07	0.17	45.3%	45.3%	0.7%	34.8%	0.6%	9.5%	24.7%
77			30		5	0.77	0.01	0.09	0.00	0.16	0.50	100.0%	0.9%	11.0%	0.3%	21.0%	64.4%	0.50	0.01	0.05	0.00	0.10	0.32	64.6%	64.6%	0.6%	6.3%	0.1%	12.7%	40.8%
78			31		5	0.91	0.01	0.07	0.00	0.19	0.56	100.0%	1.4%	7.5%	0.1%	20.6%	61.5%	0.65	0.01	0.04	0.00	0.12	0.33	71.2%	71.2%	1.1%	3.8%	0.1%	12.9%	36.4%
79			32		5	0.68	0.01	0.15	0.00	0.13	0.36	100.0%	1.9%	21.8%	0.4%	19.6%	52.4%	0.38	0.01	0.09	0.00	0.08	0.20	55.3%	55.3%	1.5%	12.8%	0.3%	11.0%	29.4%
80			33		5	1.33	0.01	0.54	0.01	0.07	0.73	100.0%	0.8%	40.5%	0.5%	5.3%	54.5%	0.39	0.01	0.37	0.01	0.03	0.36	29.3%	29.3%	0.6%	27.8%	0.4%	2.6%	27.3%
81			38		5	0.71	0.01	0.12	0.01	0.12	0.41	100.0%	1.1%	17.4%	0.7%	17.0%	58.6%	0.40	0.01	0.05	0.00	0.07	0.20	56.8%	56.8%	1.0%	7.2%	0.4%	10.5%	28.6%
82			39		5	0.88	0.01	0.10	0.00	0.18	0.56	100.0%	1.0%	11.6%	0.2%	20.1%	63.3%	0.57	0.01	0.05	0.00	0.11	0.34	64.8%	64.8%	0.8%	5.3%	0.1%	12.7%	38.4%
83			40		5	0.80	0.01	0.09	0.00	0.18	0.46	100.0%	1.6%	11.0%	0.2%	22.2%	57.9%	0.54	0.01	0.05	0.00	0.11	0.28	67.6%	67.6%	1.1%	5.7%	0.2%	13.6%	35.4%
84			41		5	0.86	0.01	0.30	0.01	0.12	0.58	100.0%	1.5%	34.3%	0.6%	13.3%	67.2%	0.35	0.01	0.21	0.00	0.06	0.33	40.2%	40.2%	1.2%	24.4%	0.3%	7.1%	38.7%
85			129		1	0.18	0.00	0.01	0.00	0.01	0.19	97.8%	1.1%	7.0%	0.5%	7.6%	100.0%	0.07	0.00	0.01	0.00	0.01	0.12	62.2%	36.2%	1.1%	4.9%	0.5%	4.3%	62.2%
86			131		1	0.19	0.00	0.01	0.00	0.02	0.12	100.0%	1.1%	5.9%	1.1%	8.6%	64.7%	0.08	0.00	0.01	0.00	0.01	0.07	41.2%	41.2%	0.5%	3.7%	1.1%	4.3%	35.8%
87			133		1	0.23	0.00	0.03	0.00	0.02	0.11	100.0%	0.9%	12.8%	0.4%	8.0%	48.7%	0.09	0.00	0.02	0.00	0.01	0.05	39.8%	39.8%	0.4%	8.8%	0.4%	4.0%	19.9%
88			135		1	0.20	0.00	0.02	0.00	0.01	0.10	100.0%	1.0%	10.9%	1.0%	6.9%	50.0%	0.07	0.00	0.01	0.00	0.01	0.06	36.6%	36.6%	1.0%	6.4%	1.0%	4.0%	27.2%
89			137		1	0.18	0.00	0.02	0.00	0.02	0.08	100.0%	1.1%	8.7%	1.1%	9.8%	42.6%	0.08	0.00	0.01	0.00	0.01	0.04	41.5%	41.5%	1.1%	6.0%	0.5%	4.9%	21.3%
90			142		2	0.54	0.00	0.06	0.01	0.04	0.23	100.0%	0.7%	11.4%	1.1%	8.2%	42.8%	0.20	0.00	0.04	0.01	0.02	0.10	37.8%	37.8%	0.6%	7.1%	1.1%	4.5%	18.3%
91			143		2	0.39	0.00	0.02	0.00	0.03	0.35	100.0%	1.0%	3.8%	0.3%	8.4%	88.3%	0.19	0.00	0.01	0.00	0.02	0.25	62.8%	49.5%	0.8%	2.6%	0.3%	4.3%	62.8%
92			144		2	0.39	0.00	0.07	0.01	0.03	0.18	100.0%	1.0%	17.0%	1.3%	8.1%	46.8%	0.13	0.00	0.05	0.01	0.02	0.08	33.6%	33.6%	0.8%	11.5%	1.3%	4.1%	21.1%
93			145		2	0.34	0.01	0.04	0.01	0.04	0.25	100.0%	1.8%	11.3%	1.5%	10.7%	74.0%	0.14	0.00	0.02	0.01	0.02	0.12	41.2%	41.2%	1.2%	7.2%	1.5%	5.1%	36.4%
94			149		2	0.40	0.01	0.03	0.00	0.05	0.25	100.0%	1.3%	7.8%	0.5%	12.4%	62.9%	0.23	0.00	0.02	0.00	0.03	0.14	57.3%	57.3%	1.0%	4.8%	0.3%	6.3%	34.3%
95			150		2	0.27	0.01	0.03	0.00	0.03	0.11	100.0%	1.9%	9.3%	1.1%	9.3%	40.3%	0.10	0.00	0.02	0.00	0.01	0.07	37.3%	37.3%	1.5%	5.6%	1.1%	4.9%	26.1%
96			151		2	0.49	0.00	0.06	0.01	0.04	0.22	100.0%	0.8%	12.9%	1.0%	8.4%	44.2%	0.17	0.00	0.05	0.00	0.02	0.10	35.4%	35.4%	0.6%	9.2%	0.8%	4.3%	20.4%
97			157		5	1.02	0.01	0.16	0.01	0.14	0.69	100.0%	1.2%	15.3%	0.7%	13.5%	67.0%	0.51	0.01	0.11	0.00	0.07	0.39	50.1%	50.1%	0.9%	10.3%	0.3%	6.6%	37.6%
98			158		5	0.82	0.01	0.05	0.00	0.07	0.60	100.0%	1.5%	5.6%	0.5%	9.0%	72.8%	0.49	0.01	0.02	0.00	0.04	0.35	59.7%	59.7%	1.1%	2.4%	0.2%	5.4%	42.6%
99			159		5	0.73	0.01	0.04	0.01	0.06	0.52	100.0%	1.7%	5.5%	0.7%	8.8%	71.9%	0.34	0.01	0.01	0.00	0.04	0.37	51.1%	47.1%	1.2%	1.5%	0.4%	4.8%	51.1%
100			160		5	0.91	0.01	0.17	0.03	0.08	0.62	100.0%	1.1%	18.5%	2.7%	8.2%	67.7%	0.28	0.01	0.11	0.02	0.04	0.38	41.6%	30.7%	0.8%	12.0%	2.6%	4.6%	41.6%
101			161		5	1.05	0.01	0.24	0.01	0.16	0.59	100.0%	0.7%	22.7%	0.8%	14.7%	56.1%	0.48	0.01	0.16	0.01	0.08	0.29	45.8%	45.8%	0.6%	15.5%	0.8%	7.3%	27.1%
102			166		5	1.10	0.01	0.04	0.00	0.14	0.76	100.0%	1.1%	3.8%	0.4%	12.3%	69.2%	0.69	0.01	0.03	0.00	0.09	0.44	62.6%	62.6%	0.8%	2.9%	0.4%	7.7%	40.1%
103			167		5	0.73	0.01	0.05	0.00	0.08	0.55	100.0%	1.2%	7.4%	0.3%	11.5%	76.0%	0.36	0.01	0.03	0.00	0.05	0.40	55.1%	49.9%	1.1%	4.7%	0.1%	7.4%	55.1%
104			168		5	0.70	0.01	0.12	0.01	0.08	0.46	100.0%	1.9%	17.7%	0.7%	11.1%	65.8%	0.42	0.01	0.06	0.00	0.05	0.27	59.9%	59.9%	1.6%	8.4%	0.3%	6.4%	37.9%
105			169		5	1.06	0.01	0.24	0.03	0.14	0.49	100.0%	1.0%	22.3%	2.5%	12.7%	46.4%	0.41	0.01	0.17	0.03	0.07	0.26	38.8%	38.8%	0.8%	15.8%	2.4%	6.4%	24.3%
106			1	129	2	0.40	0.01	0.04	0.00	0.04	0.39	100.0%	1.3%	10.5%	0.8%	9.3%	96.7%	0.16	0.00	0.03	0.00	0.02	0.23	56.6%	39.3%	1.0%	7.3%	0.8%	5.0%	56.6%
107			3	131	2	0.46	0.01	0.06	0.00	0.05	0.28	100.0%	1.1%	12.3%	0.9%	10.3%	61.9%	0.22	0.00	0.04	0.00	0.02	0.15	48.8%	48.8%	0.9%	8.1%	0.7%	5.3%	32.6%
108			5	133	2	0.50	0.01	0.08	0.00	0.05	0.26	100.0%	1.0%	16.8%	0.4%	10.4%	52.8%	0.25	0.00	0.06	0.00	0.03	0.11	50.2%	50.2%	0.8%	12.0%	0.4%	5.0%	22.0%
109			7	135	2	0.47	0.01	0.09	0.00	0.05	0.26	100.0%	1.5%	18.7%	0.6%	10.9%	54.7%	0.22	0.01	0.05	0.00	0.03	0.11	47.2%	47.2%	1.3%	11.4%	0.6%	5.8%	24.2%
110			9	137	2	0.42	0.01	0.08	0.00	0.05	0.22	100.0%	1.2%	18.9%	0.7%	12.2%	52.0%	0.22	0.00	0.05	0.00	0.03	0.11	52.5%	52.5%	1.0%	11.5%	0.5%	6.7%	26.5%
111			14	142	4	1.01	0.01	0.25	0.02	0.07	0.50	100.0%	1.1%	24.5%	1.6%	7.0%	49.1%	0.34	0.01	0.17	0.01	0.04	0.26	33.4%	33.4%	0.9%	16.7%	1.4%	4.0%	25.3%
112			15	143	4	0.71	0.01	0.11	0.00	0.10	0.52	100.0%	2.0%	15.3%	0.6%	14.7%	73.1%	0.35	0.01	0.04	0.00	0.06	0.35	49.2%	49.0%	1.7%	6.2%	0.3%	9.1%	49.2%
113			16	144	4	0.98	0.01	0.22	0.01	0.09	0.48	100.0%	1.1%	22.0%	0.9%	9.4%	49.1%	0.37	0.01	0.15	0.01	0.05	0.21	37.7%	37.7%	0.8%	15.3%	0.9%	5.2%	21.3%
114			17	145	4	0.82	0.01	0.18	0.01	0.08	0.63	100.0%	1.1%	22.0%	1.6%	9.5%	77.1%	0.34	0.01	0.13	0.01	0.04	0.30	41.6%	41.6%	1.0%	15.5%	1.3%	5.0%	36.1%
115			21	149	4	0.99	0.01	0.16	0.00	0.13	0.54	100.0%	0.9%	16.0%	0.4%	13.6%	54.5%	0.59	0.01	0.11	0.00	0.07	0.28	60.2%	60.2%	0.7%	10.6%	0.2%	7.1%	28.8%
116			22	150	4	0.71	0.02	0.07	0.00	0.09	0.40	100.0%	2.3%	9.4%	0.6%	13.0%	56.0%	0.39	0.01	0.04	0.00	0.05	0.25	54.8%	54.8%	1.7%	5.0%	0.6%	7.1%	35.9%
117			23	151	4	0.75	0.01	0.21	0.01	0.07	0.37	100.0%	1.7%	28.6%	0.8%	8.7%	49.8%	0.28	0.01	0.15	0.01	0.03	0.22	37.1%	37.1%	1.2%	19.6%	0.8%	4.5%	28.8%
118			29	157	10	2.40	0.02	0.83	0.01	0.41	1.65	100.0%	1.0%	34.4%	0.5%	17.1%	68.8%	1.41	0.02	0.57	0.01	0.24	0.84	58.7%	58.7%	0.6%	23.6%	0.4%	9.8%	34.8%
119			30	158	10	2.03	0.03	0.18	0.01	0.36	1.51	100.0%	1.3%	8.9%	0.3%	17.6%	74.5%	1.38	0.02	0.08	0.00	0.22	0.90	67.9%	67.9%	1.0%	3.9%	0.2%	10.8%	44.2%
120			31	159	10	1.84	0.03	0.11	0.01	0.33	1.10	100.0%	1.5%	6.1%	0.4%	17.7%	60.0%	1.13	0.02	0.06	0.01	0.19	0.73	61.2%	61.2%	1.1%	3.5%	0.3%	10.5%	39.7%
121			32	160	10	1.79	0.03	0.47	0.04	0.23	1.22	100.0%	1.8%	26.1%	2.0%	12.5%	68.2%	0.77	0.03	0.32	0.03	0.13	0.75	42.9%	42.9%	1.4%	17.6%	1.8%	7.2%	41.9%
122			33	161	10	3.37	0.02	1.24	0.02	0.34	1.55	100.0%	0.7%	36.7%	0.7%	10.2%	45.9%	1.10	0.02	0.89	0.02	0.18	0.79	32.6%	32.6%	0.6%	26.4%	0.6%	5.4%	23.3%
123			38	166	10	2.48	0.03	0.23	0.01	0.38	1.75	100.0%	1.0%	9.4%	0.5%	15.5%	70.7%	1.63	0.02	0.10	0.01	0.24	0.92	65.9%	65.9%	0.8%	4.0%	0.3%	9.8%	37.2%
124			39	167	10	1.90	0.02	0.25	0.01	0.39	1.26	100.0%	1.2%	13.3%	0.3%	20.6%	66.1%	1.22	0.02	0.11	0.00	0.24	0.84	64.3%	64.3%	0.9%	5.6%	0.2%	12.4%	44.1%
125			40	168	10	1.81	0.04	0.23	0.01	0.30	0.98	100.0%	2.0%	12.5%	0.5%	16.7%	54.1%	1.12	0.03	0.10	0.01	0.19	0.54	62.0%	62.0%	1.8%	5.6%	0.3%	10.7%	29.7%
126			41	169	10	2.56	0.04	0.80	0.04	0.27	1.44	100.0%	1.5%	31.2%	1.6%	10.7%	56.5%	0.96	0.03	0.57	0.04	0.13	0.84	37.3%	37.3%	1.2%	22.4%	1.5%	5.0%	32.7%

- K–patch Mid CH

						4cm2 PD(mW/cm2)						**100.0%**	**2.0%**	**51.2%**	**1.8%**	**21.6%**	**96.9%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**70.7%**	**70.7%**	**1.4%**	**35.7%**	**1.7%**	**12.9%**	**56.6%**
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.22**	0.00	0.02	0.00	0.02	0.09	100.0%	0.5%	9.7%	0.5%	11.1%	41.9%	**0.11**	0.00	0.02	0.00	0.01	0.04	48.4%	48.4%	0.5%	7.4%	0.5%	5.5%	16.6%
65			3		1	**0.25**	0.00	0.03	0.00	0.02	0.13	100.0%	0.8%	11.4%	0.4%	9.8%	52.0%	**0.13**	0.00	0.02	0.00	0.01	0.05	52.0%	52.0%	0.4%	8.1%	0.0%	4.5%	19.1%
66			5		1	**0.27**	0.00	0.02	0.00	0.03	0.16	100.0%	0.7%	8.6%	0.4%	10.0%	59.5%	**0.14**	0.00	0.01	0.00	0.01	0.07	53.5%	53.5%	0.7%	5.2%	0.4%	4.8%	24.5%
67			7		1	**0.23**	0.00	0.03	0.00	0.02	0.15	100.0%	1.3%	14.7%	0.4%	10.3%	63.4%	**0.12**	0.00	0.02	0.00	0.01	0.06	50.9%	50.9%	1.3%	8.6%	0.0%	5.2%	27.6%
68			9		1	**0.21**	0.00	0.05	0.00	0.02	0.14	100.0%	1.0%	22.0%	0.5%	11.2%	65.9%	**0.10**	0.00	0.03	0.00	0.01	0.07	46.8%	46.8%	1.0%	12.2%	0.5%	5.9%	32.7%
69			14		2	**0.40**	0.00	0.09	0.00	0.03	0.19	100.0%	0.8%	23.0%	0.5%	7.8%	46.5%	**0.12**	0.00	0.07	0.00	0.02	0.07	30.0%	30.0%	0.5%	17.0%	0.5%	4.0%	18.3%
70			15		2	**0.44**	0.01	0.06	0.00	0.07	0.34	100.0%	1.4%	13.7%	0.2%	15.8%	75.7%	**0.27**	0.01	0.03	0.00	0.04	0.19	59.9%	59.9%	1.1%	5.9%	0.2%	8.3%	42.6%
71			16		2	**0.53**	0.01	0.07	0.00	0.06	0.32	100.0%	0.9%	12.2%	0.2%	12.0%	59.1%	**0.29**	0.00	0.04	0.00	0.03	0.15	53.5%	53.5%	0.8%	7.9%	0.2%	6.2%	28.5%
72			17		2	**0.43**	0.00	0.09	0.00	0.03	0.20	100.0%	0.7%	21.1%	0.5%	7.3%	47.5%	**0.12**	0.00	0.07	0.00	0.02	0.08	27.9%	27.9%	0.5%	15.7%	0.5%	3.5%	19.0%
73			21		2	**0.41**	0.00	0.07	0.00	0.05	0.24	100.0%	1.0%	15.7%	0.5%	13.0%	57.5%	**0.24**	0.00	0.04	0.00	0.03	0.12	58.0%	58.0%	1.0%	9.7%	0.5%	6.8%	28.3%
74			22		2	**0.53**	0.01	0.05	0.00	0.08	0.36	100.0%	1.1%	10.0%	0.2%	15.1%	67.5%	**0.33**	0.01	0.02	0.00	0.04	0.17	61.9%	61.9%	0.9%	4.3%	0.0%	7.9%	32.1%
75			23		2	**0.44**	0.01	0.12	0.00	0.06	0.25	100.0%	2.0%	26.5%	0.5%	12.9%	56.3%	**0.22**	0.01	0.07	0.00	0.03	0.09	49.8%	49.8%	1.4%	14.9%	0.2%	6.1%	21.3%
76			29		5	**0.80**	0.01	0.41	0.00	0.09	0.48	100.0%	1.6%	51.2%	0.5%	11.6%	60.5%	**0.37**	0.01	0.28	0.00	0.06	0.21	46.7%	46.7%	1.3%	35.7%	0.4%	7.4%	26.3%
77			30		5	**1.03**	0.01	0.09	0.00	0.18	0.66	100.0%	1.0%	8.4%	0.2%	17.0%	64.2%	**0.64**	0.01	0.05	0.00	0.11	0.33	61.8%	61.8%	0.8%	5.0%	0.2%	10.4%	32.2%
78			31		5	**1.18**	0.01	0.06	0.00	0.23	0.79	100.0%	0.9%	5.4%	0.2%	19.3%	67.2%	**0.80**	0.01	0.03	0.00	0.14	0.41	68.0%	68.0%	0.7%	2.5%	0.1%	12.1%	35.1%
79			32		5	**1.16**	0.02	0.33	0.00	0.22	0.61	100.0%	1.7%	28.3%	0.3%	18.6%	52.5%	**0.71**	0.02	0.15	0.00	0.13	0.30	61.2%	61.2%	1.4%	13.1%	0.2%	10.8%	25.8%
80			33		5	**1.30**	0.01	0.48	0.01	0.12	0.78	100.0%	0.9%	37.1%	0.5%	9.1%	60.5%	**0.43**	0.01	0.35	0.01	0.06	0.35	33.1%	33.1%	0.6%	26.7%	0.5%	4.7%	27.3%
81			38		5	**0.84**	0.01	0.16	0.00	0.13	0.49	100.0%	0.9%	18.4%	0.5%	15.2%	58.4%	**0.49**	0.01	0.07	0.00	0.08	0.28	58.6%	58.6%	0.7%	8.3%	0.2%	9.1%	32.9%
82			39		5	**1.15**	0.01	0.06	0.00	0.21	0.75	100.0%	0.9%	4.9%	0.3%	18.7%	65.7%	**0.74**	0.01	0.03	0.00	0.14	0.39	64.3%	64.3%	0.6%	2.2%	0.3%	11.9%	33.9%
83			40		5	**1.21**	0.02	0.12	0.00	0.25	0.68	100.0%	1.7%	9.9%	0.2%	20.2%	56.5%	**0.83**	0.01	0.05	0.00	0.16	0.40	68.7%	68.7%	1.2%	4.1%	0.2%	12.9%	32.8%
84			41		5	**1.28**	0.01	0.31	0.01	0.19	0.69	100.0%	0.9%	24.1%	0.5%	14.7%	54.1%	**0.62**	0.01	0.19	0.00	0.11	0.34	48.6%	48.6%	0.7%	15.0%	0.3%	8.2%	26.6%
85			129		1	**0.22**	0.00	0.01	0.00	0.02	0.22	100.0%	0.4%	4.9%	0.4%	7.1%	96.9%	0.10	0.00	0.01	0.00	0.01	**0.10**	46.4%	46.0%	0.4%	3.6%	0.4%	3.6%	46.4%
86			131		1	**0.25**	0.00	0.02	0.00	0.02	0.16	100.0%	0.4%	8.7%	0.8%	6.7%	64.8%	**0.09**	0.00	0.01	0.00	0.01	0.09	37.2%	37.2%	0.4%	5.5%	0.8%	3.6%	36.0%
87			133		1	**0.25**	0.00	0.03	0.00	0.03	0.11	100.0%	0.4%	13.9%	0.8%	11.0%	46.1%	**0.11**	0.00	0.02	0.00	0.01	0.05	43.3%	43.3%	0.4%	9.0%	0.8%	5.7%	18.4%
88			135		1	**0.28**	0.00	0.04	0.00	0.02	0.14	100.0%	0.4%	14.8%	0.4%	8.1%	48.4%	**0.13**	0.00	0.02	0.00	0.01	0.06	44.2%	44.2%	0.4%	8.1%	0.4%	4.2%	20.1%
89			137		1	**0.20**	0.00	0.03	0.00	0.02	0.08	100.0%	1.0%	13.8%	0.5%	10.3%	39.5%	**0.10**	0.00	0.02	0.00	0.01	0.03	50.3%	50.3%	1.0%	7.7%	0.5%	5.1%	16.9%
90			142		2	**0.59**	0.00	0.11	0.00	0.06	0.24	100.0%	0.5%	19.3%	0.5%	9.3%	40.1%	**0.20**	0.00	0.06	0.00	0.03	0.08	34.5%	34.5%	0.3%	10.7%	0.5%	4.2%	14.2%
91			143		2	**0.46**	0.00	0.01	0.00	0.04	0.38	100.0%	0.4%	2.4%	0.4%	9.4%	83.3%	0.24	0.00	0.01	0.00	0.02	**0.26**	56.6%	53.3%	0.4%	1.3%	0.2%	4.2%	56.6%
92			144		2	**0.50**	0.00	0.11	0.01	0.04	0.27	100.0%	0.4%	22.1%	1.0%	7.0%	55.0%	**0.24**	0.00	0.07	0.00	0.02	0.13	48.4%	48.4%	0.4%	13.9%	0.8%	3.8%	26.7%
93			145		2	**0.50**	0.00	0.05	0.01	0.03	0.40	100.0%	0.6%	9.6%	1.0%	5.6%	79.1%	**0.19**	0.00	0.03	0.00	0.02	0.17	37.1%	37.1%	0.4%	6.4%	0.8%	3.0%	34.5%
94			149		2	**0.49**	0.00	0.05	0.00	0.07	0.35	100.0%	0.4%	10.9%	0.2%	13.6%	72.1%	**0.29**	0.00	0.03	0.00	0.03	0.19	59.1%	59.1%	0.4%	6.6%	0.2%	6.6%	38.6%
95			150		2	**0.39**	0.00	0.06	0.00	0.04	0.22	100.0%	0.8%	15.0%	0.5%	8.9%	55.1%	**0.22**	0.00	0.03	0.00	0.02	0.11	56.6%	56.6%	0.5%	6.6%	0.5%	4.6%	27.9%
96			151		2	**0.55**	0.00	0.09	0.01	0.02	0.22	100.0%	0.5%	17.0%	1.1%	4.2%	40.9%	**0.17**	0.00	0.07	0.01	0.01	0.11	30.3%	30.3%	0.5%	11.9%	1.1%	2.0%	19.3%
97			157		5	**1.01**	0.01	0.33	0.00	0.11	0.82	100.0%	0.8%	32.6%	0.4%	11.3%	80.8%	**0.50**	0.01	0.20	0.00	0.06	0.38	49.1%	49.1%	0.6%	19.4%	0.4%	6.1%	37.8%
98			158		5	**1.20**	0.01	0.04	0.00	0.22	0.81	100.0%	0.4%	3.1%	0.3%	18.1%	67.4%	**0.82**	0.01	0.02	0.00	0.12	0.52	68.3%	68.3%	0.4%	1.4%	0.1%	10.3%	43.3%
99			159		5	**0.85**	0.01	0.04	0.00	0.09	0.51	100.0%	0.8%	4.7%	0.5%	11.0%	59.9%	**0.53**	0.01	0.02	0.00	0.06	0.33	61.9%	61.9%	0.6%	2.3%	0.2%	6.4%	38.6%
100			160		5	**1.05**	0.01	0.36	0.02	0.10	0.82	100.0%	0.5%	34.1%	1.8%	9.6%	78.4%	**0.51**	0.00	0.23	0.02	0.05	0.42	48.2%	48.2%	0.4%	21.6%	1.7%	4.4%	39.9%
101			161		5	**1.14**	0.01	0.39	0.01	0.10	0.78	100.0%	0.8%	33.9%	0.7%	9.0%	68.4%	**0.43**	0.01	0.23	0.01	0.06	0.41	37.2%	37.2%	0.7%	20.5%	0.6%	4.9%	36.0%
102			166		5	**1.25**	0.01	0.08	0.00	0.21	0.81	100.0%	0.4%	6.2%	0.3%	16.9%	65.2%	**0.83**	0.00	0.04	0.00	0.12	0.46	66.4%	66.4%	0.3%	3.3%	0.2%	10.0%	37.0%
103			167		5	**0.83**	0.01	0.04	0.01	0.14	0.59	100.0%	0.7%	5.3%	0.6%	16.7%	71.4%	**0.50**	0.01	0.02	0.00	0.07	0.39	59.8%	59.8%	0.6%	2.2%	0.2%	8.2%	46.7%
104			168		5	**0.98**	0.01	0.09	0.00	0.13	0.57	100.0%	0.5%	9.4%	0.3%	13.4%	58.3%	**0.62**	0.00	0.03	0.00	0.08	0.35	63.0%	63.0%	0.4%	2.8%	0.2%	8.4%	35.8%
105			169		5	**1.17**	0.01	0.39	0.02	0.11	0.64	100.0%	0.6%	33.1%	1.6%	9.3%	54.6%	**0.53**	0.01	0.26	0.02	0.05	0.30	45.0%	45.0%	0.5%	21.9%	1.5%	4.4%	25.9%
106			1	129	2	**0.48**	0.00	0.05	0.00	0.05	0.37	100.0%	0.6%	9.8%	0.8%	10.2%	77.6%	**0.23**	0.00	0.04	0.00	0.03	0.21	47.7%	47.7%	0.6%	7.5%	0.6%	5.2%	42.5%
107			3	131	2	**0.54**	0.01	0.09	0.00	0.06	0.32	100.0%	0.9%	15.7%	0.4%	10.7%	58.9%	**0.28**	0.00	0.06	0.00	0.03	0.14	52.4%	52.4%	0.6%	11.3%	0.4%	5.0%	25.3%
108			5	133	2	**0.59**	0.01	0.08	0.00	0.07	0.32	100.0%	0.9%	14.0%	0.5%	11.8%	54.9%	**0.28**	0.00	0.05	0.00	0.04	0.14	48.3%	48.3%	0.7%	9.2%	0.5%	6.1%	23.2%
109			7	135	2	**0.56**	0.01	0.11	0.00	0.06	0.30	100.0%	1.1%	20.1%	0.4%	10.3%	52.4%	**0.30**	0.01	0.07	0.00	0.03	0.11	52.4%	52.4%	0.9%	11.9%	0.4%	5.5%	18.8%
110			9	137	2	**0.48**	0.01	0.10	0.00	0.06	0.26	100.0%	1.3%	19.8%	0.6%	12.5%	54.5%	**0.25**	0.00	0.05	0.00	0.03	0.11	53.0%	53.0%	0.8%	11.3%	0.4%	6.9%	23.8%
111			14	142	4	**0.94**	0.01	0.27	0.01	0.09	0.47	100.0%	0.6%	28.7%	0.6%	9.8%	49.9%	**0.37**	0.01	0.18	0.01	0.05	0.22	39.6%	39.6%	0.5%	18.8%	0.5%	5.3%	23.1%
112			15	143	4	**0.81**	0.01	0.08	0.00	0.11	0.56	100.0%	1.0%	10.2%	0.5%	13.3%	69.1%	**0.48**	0.01	0.04	0.00	0.06	0.30	59.0%	59.0%	0.9%	4.7%	0.2%	7.0%	37.0%
113			16	144	4	**1.10**	0.01	0.23	0.01	0.13	0.73	100.0%	0.9%	20.7%	0.6%	11.4%	66.3%	**0.55**	0.01	0.15	0.01	0.06	0.35	49.5%	49.5%	0.6%	13.9%	0.6%	5.4%	31.3%
114			17	145	4	**1.16**	0.01	0.24	0.01	0.08	0.66	100.0%	0.8%	20.8%	0.9%	7.2%	56.7%	**0.41**	0.01	0.18	0.01	0.05	0.31	35.7%	35.7%	0.6%	15.4%	0.8%	3.9%	26.4%
115			21	149	4	**1.12**	0.01	0.19	0.00	0.16	0.70	100.0%	0.6%	16.5%	0.4%	14.3%	62.5%	**0.66**	0.01	0.12	0.00	0.09	0.30	58.4%	58.4%	0.5%	10.4%	0.4%	7.7%	27.0%
116			22	150	4	**1.04**	0.01	0.12	0.00	0.14	0.59	100.0%	1.4%	11.3%	0.3%	13.9%	56.9%	**0.63**	0.01	0.07	0.00	0.08	0.31	61.1%	61.1%	1.1%	6.3%	0.3%	7.4%	30.0%
117			23	151	4	**1.00**	0.01	0.29	0.01	0.10	0.49	100.0%	1.1%	28.7%	0.9%	9.6%	49.1%	**0.42**	0.01	0.19	0.01	0.04	0.22	41.8%	41.8%	0.9%	18.8%	0.8%	4.0%	22.0%
118			29	157	10	**2.80**	0.03	1.24	0.02	0.32	1.56	100.0%	1.0%	44.4%	0.5%	11.3%	55.9%	**1.38**	0.02	0.85	0.01	0.19	0.71	49.1%	49.1%	0.8%	30.3%	0.3%	6.9%	25.2%
119			30	158	10	**2.79**	0.02	0.15	0.01	0.59	1.79	100.0%	0.7%	5.2%	0.2%	21.0%	64.2%	**1.95**	0.02	0.07	0.00	0.35	1.03	70.0%	70.0%	0.6%	2.5%	0.1%	12.6%	36.8%
120			31	159	10	**2.14**	0.02	0.14	0.01	0.34	1.45	100.0%	1.1%	6.3%	0.3%	15.8%	67.9%	**1.41**	0.02	0.06	0.01	0.21	0.75	65.7%	65.7%	1.0%	2.9%	0.2%	9.9%	35.2%
121			32	160	10	**2.67**	0.03	0.74	0.03	0.32	1.90	100.0%	1.2%	27.8%	1.0%	11.9%	71.1%	**1.42**	0.02	0.51	0.03	0.18	1.06	53.0%	53.0%	0.9%	19.0%	0.9%	6.7%	39.6%
122			33	161	10	**3.85**	0.03	1.40	0.02	0.39	1.73	100.0%	0.8%	36.2%	0.5%	10.2%	44.9%	**1.30**	0.02	0.97	0.02	0.20	0.83	33.6%	33.6%	0.5%	25.2%	0.4%	5.2%	21.6%
123			38	166	10	**2.69**	0.02	0.40	0.01	0.46	1.70	100.0%	0.7%	14.8%	0.4%	17.0%	63.1%	**1.90**	0.02	0.20	0.01	0.27	1.00	70.7%	70.7%	0.6%	7.4%	0.2%	9.9%	37.1%
124			39	167	10	**2.48**	0.02	0.15	0.01	0.54	1.51	100.0%	0.8%	6.1%	0.4%	21.6%	60.7%	**1.58**	0.02	0.07	0.01	0.32	0.76	63.6%	63.6%	0.6%	2.7%	0.2%	12.8%	30.7%
125			40	168	10	**2.39**	0.04	0.24	0.01	0.40	1.41	100.0%	1.5%	10.0%	0.3%	16.8%	59.0%	**1.61**	0.03	0.08	0.00	0.26	0.83	67.3%	67.3%	1.1%	3.3%	0.2%	10.7%	34.5%
126			41	169	10	**3.29**	0.03	1.00	0.03	0.42	1.93	100.0%	0.9%	30.3%	1.0%	12.8%	58.5%	**1.50**	0.02	0.70	0.03	0.22	1.05	45.7%	45.7%	0.5%	21.3%	0.9%	6.5%	31.8%

- K–patch High CH

												max ratio out of												**max ratio out of all beams**						
						4cm2 PD(mW/cm2)						**100.0%**	**1.8%**	**41.9%**	**2.2%**	**23.0%**	**66.4%**	4cm2 PD(mW/cm2) at 10mm evaluation distance						**69.8%**	**69.8%**	**1.4%**	**27.4%**	**2.1%**	**14.7%**	**38.4%**
No.	Module	Type	Beam ID_1	Bema ID_2	Feed no.	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio (Right 2mm)/(worst-surface 2mm)	ratio (Left 2mm)/(worst-surface 2mm)	ratio (Top 2mm)/(worst-surface 2mm)	ratio (Bottom 2mm)/(worst-surface 2mm)	ratio (Fornt 2mm)/(worst-surface 2mm)	ratio (Rear 2mm)/(worst-surface 2mm)	S4(Right)	S3(Left)	S5(Top)	S6(Bottom)	S1(Front)	S2(Rear)	ratio worst-surface (10mm/2mm)	ratio (Right 10mm)/(worst-surface 2mm)	ratio (Left 10mm)/(worst-surface 2mm)	ratio (Top 10mm)/(worst-surface 2mm)	ratio (Bottom 10mm)/(worst-surface 2mm)	ratio (Front 10mm)/(worst-surface 2mm)	ratio (Rear 10mm)/(worst-surface 2mm)
64	K	Patch	1		1	**0.21**	0.00	0.02	0.00	0.02	0.09	100.0%	1.0%	8.1%	0.5%	8.6%	42.9%	**0.10**	0.00	0.01	0.00	0.01	0.04	48.1%	48.1%	0.5%	5.2%	0.5%	4.3%	19.5%
65			3		1	**0.21**	0.00	0.03	0.00	0.02	0.12	100.0%	0.9%	11.7%	0.5%	10.3%	55.9%	**0.10**	0.00	0.02	0.00	0.01	0.05	45.1%	45.1%	0.9%	7.5%	0.0%	5.2%	21.1%
66			5		1	**0.24**	0.00	0.02	0.00	0.02	0.14	100.0%	1.3%	9.2%	0.4%	10.0%	58.6%	**0.11**	0.00	0.01	0.00	0.01	0.06	47.7%	47.7%	0.8%	5.9%	0.4%	5.0%	25.1%
67			7		1	**0.24**	0.00	0.03	0.00	0.03	0.14	100.0%	1.3%	13.6%	0.0%	10.6%	61.0%	**0.12**	0.00	0.02	0.00	0.01	0.06	50.4%	50.4%	1.3%	7.6%	0.0%	5.5%	23.7%
68			9		1	**0.22**	0.00	0.05	0.00	0.03	0.13	100.0%	1.4%	20.8%	0.5%	13.4%	61.1%	**0.12**	0.00	0.02	0.00	0.02	0.05	55.6%	55.6%	0.9%	10.6%	0.5%	7.4%	22.2%
69			14		2	**0.35**	0.00	0.07	0.00	0.02	0.18	100.0%	0.8%	20.7%	0.6%	6.8%	50.1%	**0.11**	0.00	0.05	0.00	0.01	0.07	30.6%	30.6%	0.8%	14.4%	0.3%	3.1%	19.8%
70			15		2	**0.46**	0.00	0.04	0.00	0.08	0.30	100.0%	0.9%	8.3%	0.2%	18.4%	65.6%	**0.31**	0.00	0.02	0.00	0.05	0.14	67.5%	67.5%	0.7%	4.2%	0.2%	10.3%	30.0%
71			16		2	**0.48**	0.00	0.06	0.00	0.06	0.29	100.0%	0.8%	12.5%	0.4%	11.6%	60.5%	**0.24**	0.00	0.03	0.00	0.03	0.13	49.3%	49.3%	0.6%	7.1%	0.2%	5.8%	27.7%
72			17		2	**0.39**	0.00	0.07	0.00	0.03	0.21	100.0%	0.8%	17.2%	0.5%	7.2%	53.7%	**0.15**	0.00	0.05	0.00	0.01	0.08	37.3%	37.3%	0.8%	12.1%	0.3%	3.3%	20.1%
73			21		2	**0.40**	0.01	0.07	0.00	0.05	0.22	100.0%	1.8%	16.8%	0.5%	13.5%	54.4%	**0.19**	0.01	0.04	0.00	0.03	0.10	48.4%	48.4%	1.3%	10.5%	0.5%	7.5%	25.1%
74			22		2	**0.51**	0.01	0.05	0.00	0.07	0.34	100.0%	1.2%	8.8%	0.2%	13.9%	65.4%	**0.31**	0.01	0.02	0.00	0.04	0.15	60.5%	60.5%	1.0%	4.3%	0.2%	6.8%	29.3%
75			23		2	**0.46**	0.01	0.13	0.00	0.05	0.26	100.0%	1.3%	28.3%	0.2%	11.2%	56.4%	**0.24**	0.01	0.07	0.00	0.03	0.12	52.5%	52.5%	1.1%	15.1%	0.2%	5.6%	24.8%
76			29		5	**0.87**	0.01	0.37	0.00	0.09	0.49	100.0%	1.3%	41.9%	0.3%	9.9%	55.8%	**0.31**	0.01	0.24	0.00	0.06	0.20	35.6%	35.6%	1.0%	27.4%	0.2%	6.3%	23.2%
77			30		5	**0.78**	0.01	0.07	0.00	0.15	0.47	100.0%	1.5%	9.2%	0.4%	18.6%	60.6%	**0.47**	0.01	0.04	0.00	0.09	0.23	60.3%	60.3%	1.2%	4.9%	0.4%	11.4%	29.9%
78			31		5	**1.07**	0.01	0.05	0.00	0.20	0.66	100.0%	0.9%	4.8%	0.4%	18.4%	62.3%	**0.73**	0.01	0.03	0.00	0.13	0.39	68.5%	68.5%	0.8%	2.4%	0.2%	12.0%	36.9%
79			32		5	**1.15**	0.02	0.33	0.00	0.17	0.71	100.0%	1.4%	28.5%	0.3%	15.1%	62.1%	**0.68**	0.01	0.18	0.00	0.10	0.35	59.5%	59.5%	1.1%	15.2%	0.2%	9.0%	30.5%
80			33		5	**1.11**	0.02	0.38	0.01	0.11	0.73	100.0%	1.4%	33.9%	0.5%	10.2%	65.5%	**0.44**	0.01	0.25	0.00	0.06	0.33	39.6%	39.6%	1.1%	22.9%	0.3%	5.5%	29.5%
81			38		5	**0.73**	0.01	0.19	0.00	0.13	0.43	100.0%	1.6%	26.1%	0.4%	17.5%	59.2%	**0.43**	0.01	0.11	0.00	0.08	0.21	58.5%	58.5%	1.4%	15.2%	0.3%	11.1%	28.8%
82			39		5	**1.03**	0.01	0.06	0.00	0.21	0.61	100.0%	0.8%	5.5%	0.4%	20.0%	59.5%	**0.68**	0.01	0.03	0.00	0.13	0.37	65.7%	65.7%	0.7%	2.5%	0.3%	12.8%	35.7%
83			40		5	**1.09**	0.01	0.10	0.00	0.19	0.67	100.0%	1.2%	8.9%	0.4%	17.3%	62.0%	**0.72**	0.01	0.03	0.00	0.12	0.39	66.0%	66.0%	0.8%	2.9%	0.2%	11.0%	36.1%
84			41		5	**1.25**	0.01	0.35	0.01	0.17	0.69	100.0%	1.0%	28.3%	0.5%	13.8%	55.5%	**0.62**	0.01	0.23	0.01	0.10	0.32	49.8%	49.8%	0.7%	18.4%	0.4%	7.9%	25.4%
85			129		1	**0.23**	0.00	0.01	0.00	0.03	0.15	100.0%	0.4%	6.2%	0.4%	11.5%	66.4%	**0.11**	0.00	0.01	0.00	0.01	0.07	49.1%	49.1%	0.4%	4.4%	0.4%	4.9%	31.9%
86			131		1	**0.28**	0.00	0.02	0.00	0.02	0.12	100.0%	0.4%	8.7%	0.7%	7.6%	44.6%	**0.11**	0.00	0.02	0.00	0.01	0.05	39.5%	39.5%	0.4%	5.4%	0.7%	4.0%	18.8%
87			133		1	**0.29**	0.00	0.03	0.00	0.03	0.12	100.0%	0.7%	11.9%	0.7%	10.1%	40.9%	**0.10**	0.00	0.02	0.00	0.02	0.05	35.0%	35.0%	0.7%	8.4%	0.3%	6.3%	18.2%
88			135		1	**0.32**	0.00	0.05	0.00	0.03	0.12	100.0%	0.6%	15.4%	0.6%	9.1%	37.7%	**0.12**	0.00	0.03	0.00	0.02	0.05	38.1%	38.1%	0.6%	9.4%	0.6%	5.3%	14.8%
89			137		1	**0.24**	0.00	0.03	0.00	0.03	0.09	100.0%	0.8%	13.1%	0.4%	10.7%	36.5%	**0.10**	0.00	0.02	0.00	0.01	0.04	41.0%	41.0%	0.8%	7.8%	0.4%	5.7%	16.0%
90			142		2	**0.73**	0.00	0.14	0.00	0.07	0.21	100.0%	0.6%	19.3%	0.6%	9.8%	29.0%	**0.21**	0.00	0.08	0.00	0.04	0.09	29.2%	29.2%	0.4%	10.5%	0.6%	5.2%	11.9%
91			143		2	**0.42**	0.00	0.02	0.00	0.07	0.27	100.0%	0.5%	3.6%	0.5%	16.6%	64.6%	**0.26**	0.00	0.01	0.00	0.03	0.15	62.5%	62.5%	0.5%	1.9%	0.2%	7.4%	34.4%
92			144		2	**0.59**	0.00	0.12	0.01	0.06	0.23	100.0%	0.5%	20.2%	0.8%	10.2%	39.2%	**0.26**	0.00	0.08	0.01	0.03	0.11	43.5%	43.5%	0.3%	13.9%	0.8%	4.9%	17.8%
93			145		2	**0.54**	0.00	0.06	0.01	0.03	0.28	100.0%	0.4%	11.1%	1.1%	5.9%	51.0%	**0.17**	0.00	0.04	0.01	0.02	0.13	32.1%	32.1%	0.4%	7.1%	0.9%	3.3%	23.4%
94			149		2	**0.49**	0.00	0.05	0.00	0.08	0.29	100.0%	0.6%	10.5%	0.2%	15.6%	60.4%	**0.28**	0.00	0.04	0.00	0.04	0.14	57.7%	57.7%	0.6%	7.4%	0.2%	8.4%	29.6%
95			150		2	**0.42**	0.00	0.05	0.00	0.06	0.22	100.0%	1.0%	11.0%	0.7%	13.1%	53.2%	**0.24**	0.00	0.02	0.00	0.03	0.12	57.5%	57.5%	1.0%	5.5%	0.5%	7.6%	27.4%
96			151		2	**0.72**	0.00	0.10	0.01	0.04	0.25	100.0%	0.3%	13.2%	0.8%	5.7%	34.4%	**0.23**	0.00	0.07	0.01	0.02	0.11	32.0%	32.0%	0.3%	9.3%	0.7%	3.2%	14.9%
97			157		5	**1.28**	0.01	0.36	0.00	0.13	0.71	100.0%	0.4%	28.0%	0.3%	10.0%	55.2%	**0.56**	0.00	0.23	0.00	0.07	0.35	43.2%	43.2%	0.3%	18.0%	0.2%	5.6%	26.9%
98			158		5	**1.11**	0.01	0.04	0.00	0.26	0.69	100.0%	1.1%	3.6%	0.3%	23.0%	62.0%	**0.76**	0.01	0.02	0.00	0.16	0.41	68.2%	68.2%	1.0%	1.8%	0.1%	14.2%	37.2%
99			159		5	**1.01**	0.01	0.05	0.00	0.20	0.51	100.0%	1.1%	5.2%	0.3%	19.6%	51.0%	**0.62**	0.01	0.03	0.00	0.12	0.33	61.7%	61.7%	1.0%	2.5%	0.3%	12.0%	32.4%
100			160		5	**1.22**	0.01	0.38	0.03	0.10	0.53	100.0%	0.5%	31.0%	2.2%	8.3%	43.6%	**0.61**	0.01	0.26	0.03	0.06	0.31	50.0%	50.0%	0.4%	21.5%	2.1%	4.5%	25.4%
101			161		5	**1.43**	0.01	0.42	0.01	0.18	0.74	100.0%	0.4%	29.2%	0.4%	12.6%	52.0%	**0.57**	0.01	0.27	0.00	0.09	0.37	39.5%	39.5%	0.3%	19.2%	0.3%	6.5%	25.5%
102			166		5	**1.06**	0.01	0.13	0.00	0.21	0.70	100.0%	0.8%	12.2%	0.3%	19.8%	66.2%	**0.73**	0.01	0.07	0.00	0.13	0.40	68.8%	68.8%	0.7%	6.5%	0.3%	12.6%	37.8%
103			167		5	**0.85**	0.01	0.07	0.01	0.19	0.45	100.0%	1.1%	8.3%	0.6%	22.1%	53.4%	**0.56**	0.01	0.04	0.00	0.11	0.22	65.8%	65.8%	0.9%	4.1%	0.4%	12.4%	25.7%
104			168		5	**0.90**	0.01	0.12	0.00	0.18	0.59	100.0%	1.3%	13.8%	0.3%	20.0%	65.6%	**0.59**	0.01	0.04	0.00	0.11	0.33	65.7%	65.7%	1.2%	4.1%	0.2%	12.7%	36.3%
105			169		5	**1.43**	0.01	0.43	0.02	0.17	0.62	100.0%	0.5%	30.3%	1.7%	12.1%	43.6%	**0.65**	0.01	0.30	0.02	0.10	0.28	45.7%	45.7%	0.3%	21.0%	1.5%	7.0%	19.4%
106			1	129	2	**0.46**	0.00	0.06	0.00	0.05	0.27	100.0%	0.7%	12.0%	0.7%	11.4%	58.4%	**0.24**	0.00	0.04	0.00	0.02	0.11	53.2%	53.2%	0.7%	8.5%	0.7%	5.0%	24.9%
107			3	131	2	**0.53**	0.00	0.07	0.00	0.06	0.29	100.0%	0.6%	13.7%	0.6%	11.2%	53.6%	**0.26**	0.00	0.05	0.00	0.03	0.12	49.4%	49.4%	0.6%	9.4%	0.6%	5.4%	23.2%
108			5	133	2	**0.58**	0.01	0.08	0.00	0.07	0.29	100.0%	1.0%	14.3%	0.7%	11.9%	50.4%	**0.24**	0.01	0.06	0.00	0.04	0.13	41.8%	41.8%	0.9%	9.6%	0.7%	7.2%	22.7%
109			7	135	2	**0.62**	0.01	0.13	0.00	0.08	0.29	100.0%	0.8%	20.2%	0.5%	12.3%	46.7%	**0.29**	0.00	0.07	0.00	0.05	0.13	46.8%	46.8%	0.6%	12.0%	0.5%	7.4%	21.6%
110			9	137	2	**0.52**	0.01	0.11	0.00	0.07	0.25	100.0%	1.1%	20.1%	0.6%	14.1%	47.0%	**0.25**	0.01	0.06	0.00	0.04	0.11	46.8%	46.8%	1.0%	11.3%	0.6%	7.5%	21.4%
111			14	142	4	**1.00**	0.01	0.25	0.01	0.11	0.42	100.0%	0.9%	24.9%	0.7%	10.9%	42.3%	**0.32**	0.01	0.16	0.01	0.06	0.19	32.2%	32.2%	0.7%	16.4%	0.7%	5.8%	18.9%
112			15	143	4	**0.81**	0.01	0.06	0.00	0.15	0.46	100.0%	0.9%	7.4%	0.5%	18.2%	57.1%	**0.50**	0.01	0.03	0.00	0.08	0.25	61.2%	61.2%	0.7%	3.8%	0.4%	10.1%	30.5%
113			16	144	4	**1.16**	0.01	0.27	0.01	0.16	0.68	100.0%	0.7%	22.9%	0.8%	13.9%	58.5%	**0.52**	0.01	0.18	0.01	0.08	0.34	44.4%	44.4%	0.6%	15.4%	0.7%	6.9%	28.8%
114			17	145	4	**1.12**	0.01	0.23	0.01	0.09	0.67	100.0%	0.6%	20.1%	0.9%	7.8%	59.9%	**0.45**	0.01	0.15	0.01	0.04	0.27	39.8%	39.8%	0.5%	13.7%	0.8%	3.8%	24.2%
115			21	149	4	**1.07**	0.01	0.18	0.00	0.18	0.65	100.0%	0.8%	16.7%	0.4%	16.6%	61.0%	**0.62**	0.01	0.12	0.00	0.11	0.30	57.6%	57.6%	0.7%	11.6%	0.4%	9.9%	28.0%
116			22	150	4	**1.01**	0.01	0.12	0.00	0.15	0.63	100.0%	1.3%	12.3%	0.4%	15.0%	62.4%	**0.64**	0.01	0.07	0.00	0.08	0.34	63.0%	63.0%	1.1%	6.4%	0.4%	8.2%	33.6%
117			23	151	4	**1.13**	0.01	0.29	0.01	0.12	0.53	100.0%	0.9%	25.7%	0.8%	10.4%	46.7%	**0.54**	0.01	0.18	0.01	0.06	0.28	47.5%	47.5%	0.6%	16.2%	0.8%	5.4%	25.1%
118			29	157	10	**2.92**	0.02	1.12	0.01	0.35	1.28	100.0%	0.8%	38.5%	0.3%	11.8%	43.6%	**1.47**	0.02	0.80	0.01	0.20	0.65	50.1%	50.1%	0.7%	27.4%	0.2%	6.9%	22.3%
119			30	158	10	**2.57**	0.02	0.16	0.01	0.59	1.47	100.0%	0.9%	6.3%	0.2%	22.8%	57.3%	**1.65**	0.02	0.08	0.01	0.38	0.86	64.3%	64.3%	0.8%	3.0%	0.2%	14.7%	33.3%
120			31	159	10	**2.46**	0.02	0.11	0.01	0.45	1.40	100.0%	0.9%	4.4%	0.4%	18.3%	57.0%	**1.63**	0.02	0.07	0.01	0.28	0.88	66.3%	66.3%	0.8%	2.8%	0.2%	11.4%	35.5%
121			32	160	10	**2.79**	0.02	0.83	0.04	0.36	1.77	100.0%	0.8%	29.8%	1.3%	12.9%	63.3%	**1.58**	0.02	0.56	0.04	0.21	0.88	56.8%	56.8%	0.6%	19.9%	1.3%	7.4%	31.4%
122			33	161	10	**3.61**	0.03	1.21	0.02	0.53	1.64	100.0%	0.8%	33.5%	0.4%	14.6%	45.6%	**1.41**	0.02	0.87	0.01	0.27	0.78	39.0%	39.0%	0.7%	24.1%	0.2%	7.6%	21.6%
123			38	166	10	**2.55**	0.03	0.47	0.01	0.54	1.54	100.0%	1.0%	18.5%	0.3%	21.0%	60.3%	**1.78**	0.02	0.30	0.01	0.34	0.94	69.8%	69.8%	0.9%	11.6%	0.3%	13.3%	37.0%
124			39	167	10	**2.26**	0.02	0.15	0.01	0.52	1.14	100.0%	0.8%	6.6%	0.6%	23.0%	50.5%	**1.39**	0.02	0.07	0.01	0.32	0.69	61.6%	61.6%	0.7%	3.1%	0.4%	14.3%	30.6%
125			40	168	10	**2.52**	0.03	0.27	0.01	0.45	1.64	100.0%	1.2%	10.7%	0.4%	17.6%	64.8%	**1.72**	0.03	0.10	0.01	0.28	0.97	68.0%	68.0%	1.0%	3.9%	0.2%	10.9%	38.4%
126			41	169	10	**3.10**	0.03	1.06	0.04	0.54	1.74	100.0%	0.9%	34.2%	1.3%	17.5%	56.1%	**1.67**	0.02	0.70	0.04	0.31	0.92	54.0%	54.0%	0.6%	22.6%	1.2%	10.0%	29.8%