HUAQIN AX6175 mmW Power Density Simulation Report

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April 7, 2022

Revision history

Revision	Date	Description
AA	April 2022	Initial release
AB	Auguest 1 2022	Updated rev6

Contents

Figures

Tables

1 Electromagnetic simulation method for power density

1.1 EM simulation

1.1.1 EM simulation tool description

The mmWave power density (PD) simulation method for calculating PD (Power Density) for mobile phones with mmWave antenna modules is available in ANSYS Electromagnetics suite HFSS ver. 21.1 (2021 R1) 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 HFSS ver. 21.1 (2021 R1) is implemented based on Finite Element Method (FEM), which operates in the frequency domain.

1.1.2 Mesh and convergence criteria

ANSYS Electromagnetic suite HFSS ver. 21.1 (2021 R1) uses the Finite Element Method (FEM) to solve the structure for 3D EM simulations to analyze power density. The volume area containing the simulated object should be subdivided into electrically small parts called finite elements with unknown functions. To subdivide system, the adaptive mesh technique in ANSYS Electromagnetics suite HFSS ver. 21.1 (2021 R1) is used. ANSYS Electromagnetics suite HFSS ver. 21.1 (2021 R1) 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 HFSS ver. 21.1 (2021 R1) is defined as convergence criteria, delta S, and the iterative adaptive mesh process repeats until the delta S is met. In ANSYS Electromagnetics suite HFSS ver. 21.1 (2021 R1), 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).

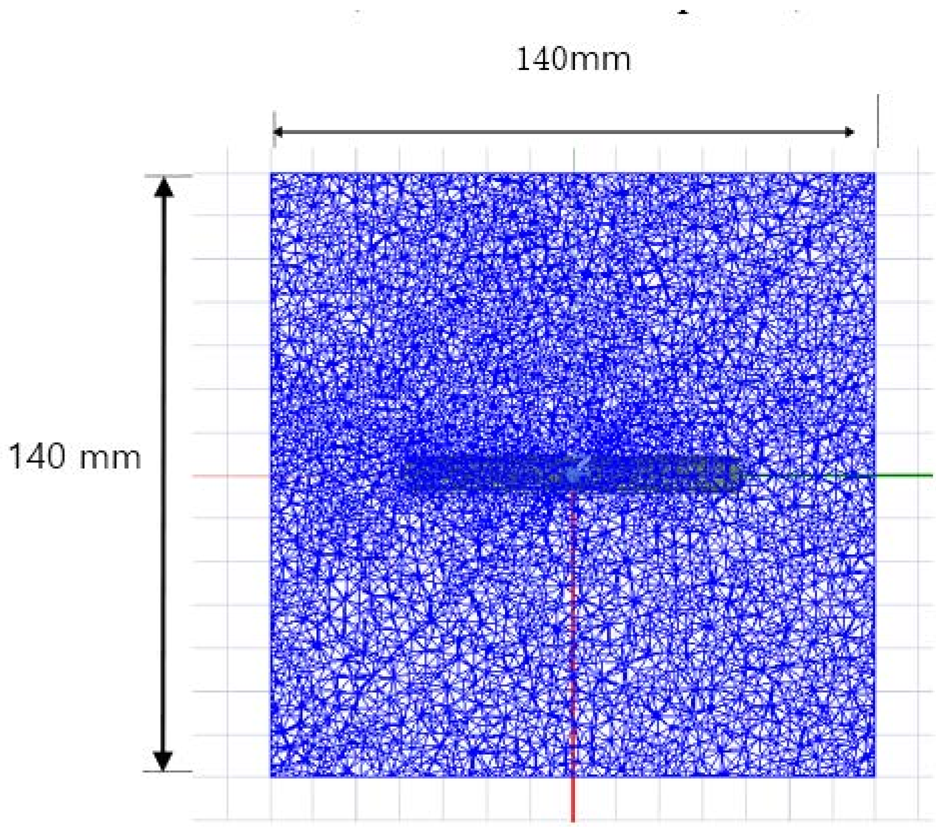


Figure 1-1: Example of HFSS mesh in a model of the device (Top view)

1.1.3 Time-averaged power density calculation

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

(S) 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 HFSS ver. 21.1 (2021 R1).

$$(\vec{S}) = \mathrm{Re}(\frac{1}{2}\vec{E}\times\vec{H}*)$$

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

$$PD_{av}=\frac{1}{A}\int_A \overrightarrow{(S)}.\mathrm{ds}=\frac{1}{2A}\int_A \left|Re(\vec{E}\times\vec{H}*)\right|.\mathrm{ds}$$

1.2 Simulation setup

1.2.1 Modeling for simulation

The simulation approach to perform PD assessment for a smartphone requires accurate modeling for mmWave antenna module as well as the smartphone itself. Figure 1-2 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 QMT0# and QMT1#. On the front side view, QMT0# is placed at the back side and antennas are facing the back side of the device. QMT1# is placed on the right side and antennas are facing the right side.

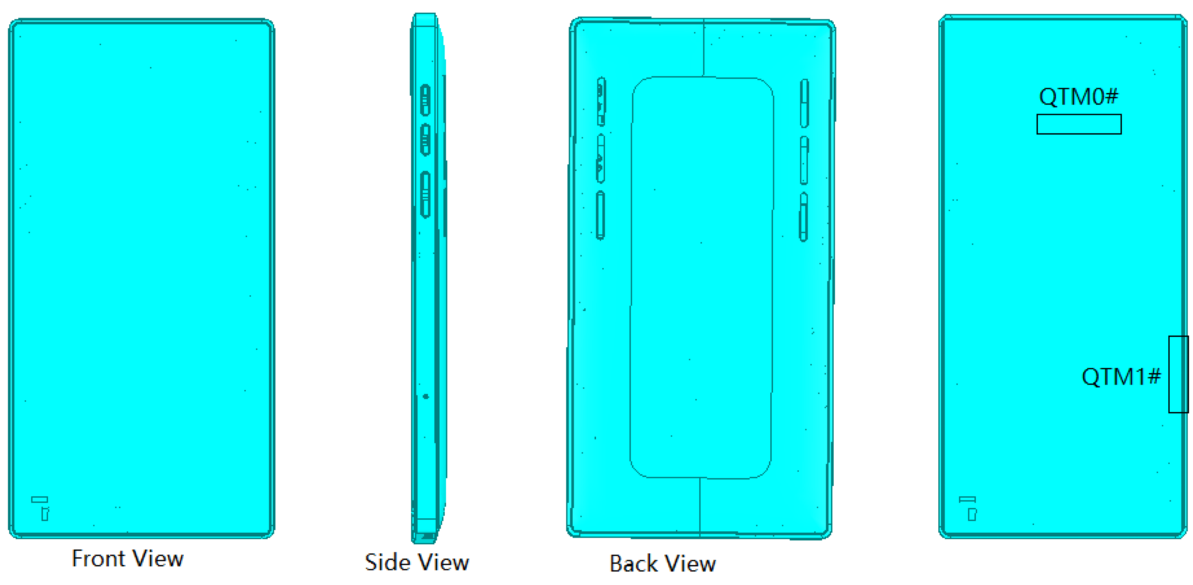


Figure 1-2: HFSS simulation model which is mounted two mmWave antenna modules

1.2.2 PD evaluation surfaces

Figure 1-3 shows the PD evaluation planes and truncation area of the simulation model to find worst case surfaces for evaluation. Table 1-1 shows the surfaces selected for PD evaluation planes for QTM#0 and QTM#1.

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 1-1: PD evaluation surfaces

	Front	Back	Left From Front View	Right From Front View	Top	Bottom
	S1	S2	S3	S4	S5	S6
QTM#0	√	√	√	√	√	√
QTM#1	√	√	√	√	√	√

1.2.3 Radiation boundary condition

For radiation boundary, the 2nd order absorbing boundary condition (ABC) is used for all simulations in this report. This radiation boundary simulates an electrically open surface that allows waves to radiate infinitely far into space. The system absorbs the wave via the 2nd order radiation boundary, essentially ballooning the boundary infinitely far away from the structure and into space. The radiation boundaries may also be placed relatively close to a structure and can be of arbitrary shape.

Per ANSYS recommendations for their simulation tool, the radiation boundary plane must be located at least a quarter wavelength from strongly radiating structure, or at least a tenth of a wavelength from a weakly radiating structure. In this simulation report, about two or three wavelengths spacing from the device surfaces in all main beam directions are applied to ensure convergence.

By changing convergence error (i.e., maximum magnitude delta S) from 2% to 4% and moving the radiation boundary closer towards the device by 20%, the combined influence in PD value is < 0.04 dB which confirms that the simulation model is reliable using this setup.

1.2.4 Source excitation condition

Each of the three 5G mmWave array modules is the same part containing a 1x4 element array of dual-polarization patch antennas. The number of antenna ports of QTM#0 and QTM#1for source excitation is equal to 16. The port of each patch antenna is separated in frequency and polarization. That is, the ports of each patch antenna are divided into a feed for 28 GHz and a feed for 39 GHz, and a vertical polarity feed and a horizontal polarity feed are divided.

Figure 1-3 shows the QTM#1 module structure and surrounding structure. The QTM#1 module is encrypted in the ANSYS Electromagnetics suite (HFSS) and can only check the feeding position is encrypted in the ANSYS Electromagnetics suite (HFSS) and can only check the feeding position.

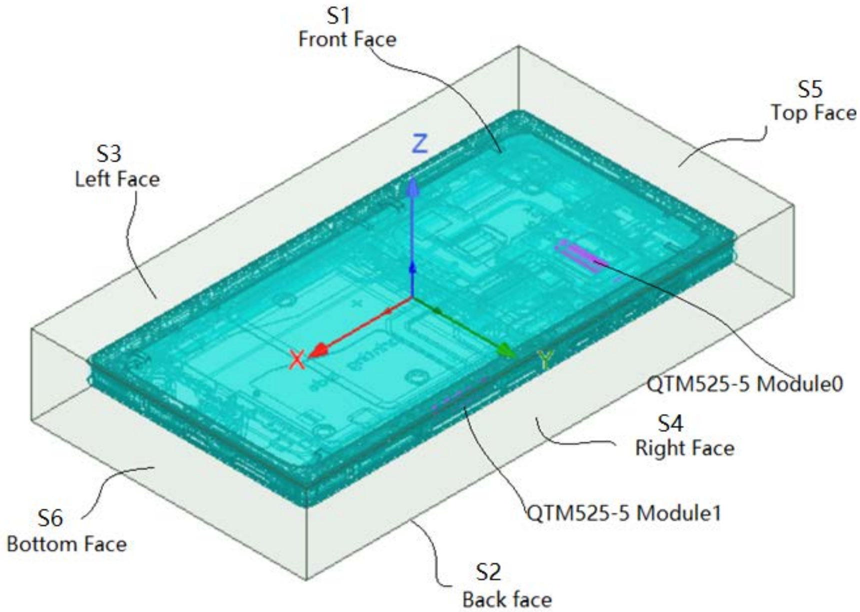
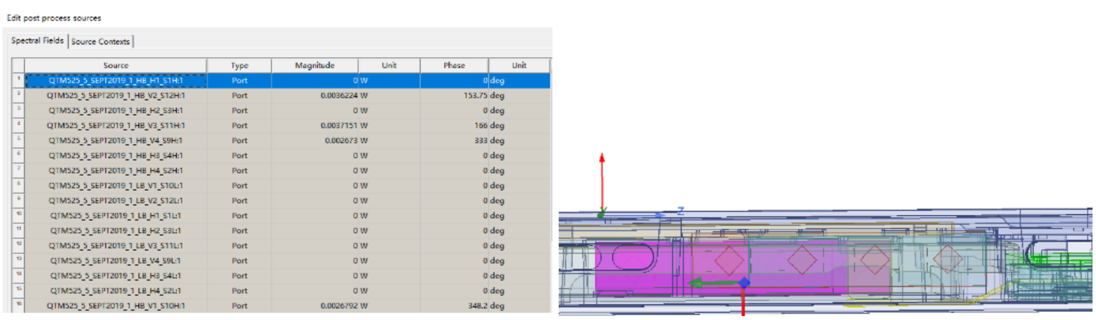


Figure 1-3: EUT simulation model

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 4 shows an example of antenna port excitations.



Edit post process sources

Spectral Fields | Source Contexts

	Source	Type	Magnitude	Unit	Phase	Unit
1	QTM525_5_SEPT2019_1_HB_H1_S1H:1	Port	0	W	0	deg
2	QTM525_5_SEPT2019_1_HB_V2_S12H:1	Port	0.0036224	W	153.75	deg
3	QTM525_5_SEPT2019_1_HB_H2_S3H:1	Port	0	W	0	deg
4	QTM525_5_SEPT2019_1_HB_V3_S11H:1	Port	0.0037151	W	166	deg
5	QTM525_5_SEPT2019_1_HB_V4_S9H:1	Port	0.002673	W	333	deg
6	QTM525_5_SEPT2019_1_HB_H3_S4H:1	Port	0	W	0	deg
7	QTM525_5_SEPT2019_1_HB_H4_S2H:1	Port	0	W	0	deg
8	QTM525_5_SEPT2019_1_LB_V1_S10L:1	Port	0	W	0	deg
9	QTM525_5_SEPT2019_1_LB_V2_S12L:1	Port	0	W	0	deg
10	QTM525_5_SEPT2019_1_LB_H1_S1L:1	Port	0	W	0	deg
11	QTM525_5_SEPT2019_1_LB_H2_S3L:1	Port	0	W	0	deg
12	QTM525_5_SEPT2019_1_LB_V3_S11L:1	Port	0	W	0	deg
13	QTM525_5_SEPT2019_1_LB_V4_S9L:1	Port	0	W	0	deg
14	QTM525_5_SEPT2019_1_LB_H3_S4L:1	Port	0	W	0	deg
15	QTM525_5_SEPT2019_1_LB_H4_S2L:1	Port	0	W	0	deg
16	QTM525_5_SEPT2019_1_HB_V1_S10H:1	Port	0.0026792	W	348.2	deg

Figure 1-4: An example of port excitation (QTM#1)

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 Codebook

The codebook supported by this EUT is shown in Table 2-1 below.

Table 2-1: EUT codebook

- N261 codebook

Band	Shared_Bands	Beam_ID	Module	Ant_Type	Ant_Feed	Paired_With
261		0	1	PATCH	1	128
261		1	0	PATCH	1	129
261		2	1	PATCH	1	130
261		3	0	PATCH	1	131
261		4	1	PATCH	1	132
261		5	0	PATCH	1	133
261		6	1	PATCH	1	134
261		7	0	PATCH	1	135
261		8	1	PATCH	2	136
261		9	1	PATCH	2	137
261		10	1	PATCH	2	138
261		11	1	PATCH	2	139
261		12	0	PATCH	2	140
261		13	0	PATCH	2	141
261		14	0	PATCH	2	142
261		15	0	PATCH	2	143
261		16	1	PATCH	2	144
261		17	1	PATCH	2	145
261		18	1	PATCH	2	146
261		19	0	PATCH	2	147
261		20	0	PATCH	2	148
261		21	0	PATCH	2	149
261		22	1	PATCH	4	150
261		23	1	PATCH	4	151
261		24	1	PATCH	4	152
261		25	1	PATCH	4	153
261		26	1	PATCH	4	154
261		27	0	PATCH	4	155
261		28	0	PATCH	4	156

261		29	0	PATCH	4	157
261		30	0	PATCH	4	158
261		31	0	PATCH	4	159
261		32	1	PATCH	4	160
261		33	1	PATCH	4	161
261		34	1	PATCH	4	162
261		35	1	PATCH	4	163
261		36	0	PATCH	4	164
261		37	0	PATCH	4	165
261		38	0	PATCH	4	166
261		39	0	PATCH	4	167
261		128	1	PATCH	1	0
261		129	0	PATCH	1	1
261		130	1	PATCH	1	2
261		131	0	PATCH	1	3
261		132	1	PATCH	1	4
261		133	0	PATCH	1	5
261		134	1	PATCH	1	6
261		135	0	PATCH	1	7
261		136	1	PATCH	2	8
261		137	1	PATCH	2	9
261		138	1	PATCH	2	10
261		139	1	PATCH	2	11
261		140	0	PATCH	2	12
261		141	0	PATCH	2	13
261		142	0	PATCH	2	14
261		143	0	PATCH	2	15
261		144	1	PATCH	2	16
261		145	1	PATCH	2	17
261		146	1	PATCH	2	18
261		147	0	PATCH	2	19
261		148	0	PATCH	2	20
261		149	0	PATCH	2	21
261		150	1	PATCH	4	22
261		151	1	PATCH	4	23
261		152	1	PATCH	4	24
261		153	1	PATCH	4	25
261		154	1	PATCH	4	26
261		155	0	PATCH	4	27
261		156	0	PATCH	4	28
261		157	0	PATCH	4	29

261		158	0	PATCH	4	30
261		159	0	PATCH	4	31
261		160	1	PATCH	4	32
261		161	1	PATCH	4	33
261		162	1	PATCH	4	34
261		163	1	PATCH	4	35
261		164	0	PATCH	4	36
261		165	0	PATCH	4	37
261		166	0	PATCH	4	38
261		167	0	PATCH	4	39

- N260 codebook

Band	Shared_Bands	Beam_ID	Module	Ant_Type	Ant_Feed	Paired_With
260		0	1	PATCH	1	128
260		1	0	PATCH	1	129
260		2	1	PATCH	1	130
260		3	0	PATCH	1	131
260		4	1	PATCH	1	132
260		5	0	PATCH	1	133
260		6	1	PATCH	1	134
260		7	0	PATCH	1	135
260		8	1	PATCH	2	136
260		9	1	PATCH	2	137
260		10	1	PATCH	2	138
260		11	1	PATCH	2	139
260		12	0	PATCH	2	140
260		13	0	PATCH	2	141
260		14	0	PATCH	2	142
260		15	0	PATCH	2	143
260		16	1	PATCH	2	144
260		17	1	PATCH	2	145
260		18	1	PATCH	2	146
260		19	0	PATCH	2	147
260		20	0	PATCH	2	148
260		21	0	PATCH	2	149
260		22	1	PATCH	4	150
260		23	1	PATCH	4	151
260		24	1	PATCH	4	152
260		25	1	PATCH	4	153
260		26	1	PATCH	4	154

260		27	0	PATCH	4	155
260		28	0	PATCH	4	156
260		29	0	PATCH	4	157
260		30	0	PATCH	4	158
260		31	0	PATCH	4	159
260		32	1	PATCH	4	160
260		33	1	PATCH	4	161
260		34	1	PATCH	4	162
260		35	1	PATCH	4	163
260		36	0	PATCH	4	164
260		37	0	PATCH	4	165
260		38	0	PATCH	4	166
260		39	0	PATCH	4	167
260		128	1	PATCH	1	0
260		129	0	PATCH	1	1
260		130	1	PATCH	1	2
260		131	0	PATCH	1	3
260		132	1	PATCH	1	4
260		133	0	PATCH	1	5
260		134	1	PATCH	1	6
260		135	0	PATCH	1	7
260		136	1	PATCH	2	8
260		137	1	PATCH	2	9
260		138	1	PATCH	2	10
260		139	1	PATCH	2	11
260		140	0	PATCH	2	12
260		141	0	PATCH	2	13
260		142	0	PATCH	2	14
260		143	0	PATCH	2	15
260		144	1	PATCH	2	16
260		145	1	PATCH	2	17
260		146	1	PATCH	2	18
260		147	0	PATCH	2	19
260		148	0	PATCH	2	20
260		149	0	PATCH	2	21
260		150	1	PATCH	4	22
260		151	1	PATCH	4	23
260		152	1	PATCH	4	24
260		153	1	PATCH	4	25
260		154	1	PATCH	4	26
260		155	0	PATCH	4	27

260		156	0	PATCH	4	28
260		157	0	PATCH	4	29
260		158	0	PATCH	4	30
260		159	0	PATCH	4	31
260		160	1	PATCH	4	32
260		161	1	PATCH	4	33
260		162	1	PATCH	4	34
260		163	1	PATCH	4	35
260		164	0	PATCH	4	36
260		165	0	PATCH	4	37
260		166	0	PATCH	4	38
260		167	0	PATCH	4	39

3 Simulation verification

The beams selected for simulation verification are highlighted in yellow in Table 2-1. Input power level used for comparison is listed in Table 3-1.

Table 3-1: Input power used in simulation validation

Mode/Band	Antenna	Input Power (dBm) SISO	Input Power (dBm) MIMO
5G NR n261 (28 GHz)	QTM#0 Patch	6	6
	QTM#1 Patch	6	6
5G NR n260 (39 GHz)	QTM#0 Patch	6	6
	QTM#1 Patch	6	6

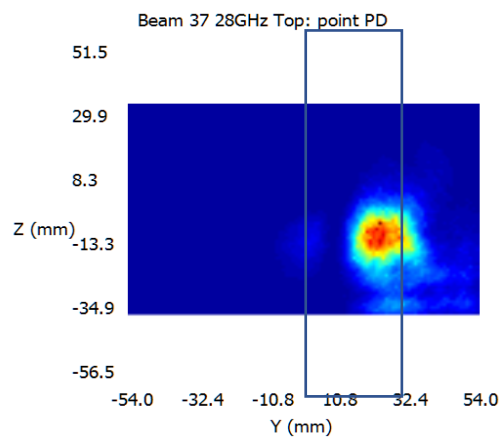
The simulation and measurement were performed at 2mm evaluation distance. The simulated and measured $4cm^2$ averaged PD results are shown in Table 3-2.

Table 3-2: Simulated and measured 4cm² averaged PD comparison

Band	Ant Type	Module	Ant Group (Ant Polarization)	beam ID	Surface	Channel	Measured Total	Simulated	Delta (Simulated-Measured)
n261	Patch	QTM0	AG0(V)	37	Topface	Mid		**2.37**	
					Backface	Mid		**17.58**	
			AG1(H)	158	Topface	Mid		**2.12**	
				165	Backface	Mid		**16.74**	
		QTM1	AG0(V)	33	Right	Mid		**10.45**	
				24	Backface	Mid		**5.36**	
			AG1(H)	152	Right	Mid		**9.96**	
				153	Backface	Mid		**5.26**	
n260	Patch	QTM0	AG0(V)	27	Topface	Mid		**1.66**	
				39	Backface	Mid		**15.79**	
			AG1(H)	158	Topface	Mid		**1.41**	
				159	Backface	Mid		**14.54**	
		QTM1	AG0(V)	23	Right	Mid		**14.82**	
					Backface	Mid		**5.94**	
			AG1(H)	151	Right	Mid		**14**	
				154	Backface	Mid		**5.79**	

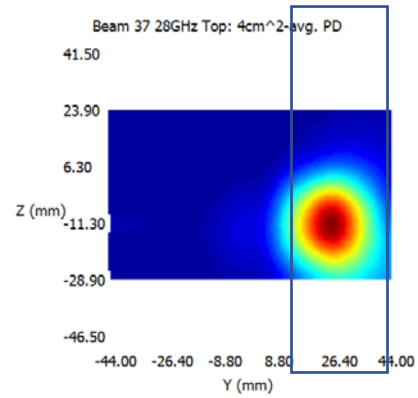
Below Figures show Measured and simulated PD distributions for selected beams. As can be seen, the Simulated point PD distribution and Measured point PD distribution have good correlation on all surfaces evaluated.

- N261 Patch antenna QTM0: Ant_Group0(V-polarization) beam ID 37 Topface -side Mid ch



(a) Measurement (b) Simulation

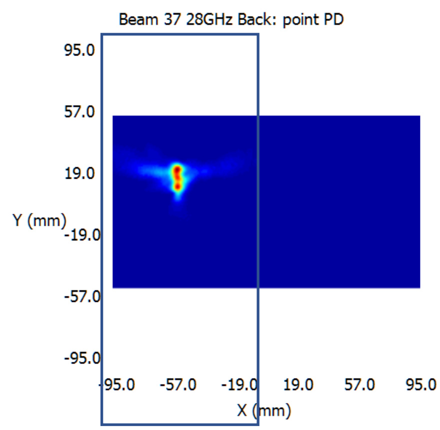
Patch antenna QTM0 AG0(V-polarization) beam ID 37， Point power density



(a) Measurement (b) Simulation

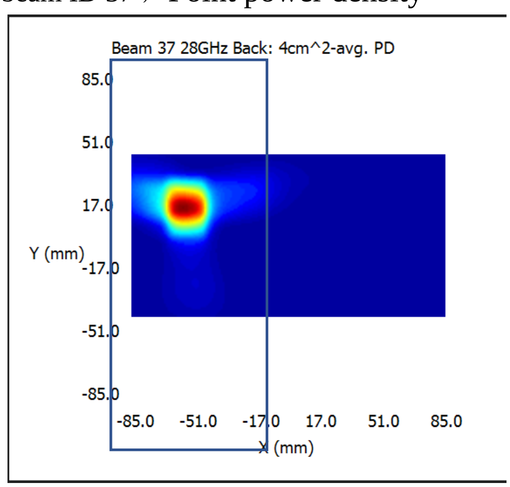
Patch antenna QTM0 AG0(V-polarization) beam ID 37， 4cm² Averaged power density

- N261 Patch antenna QTM0: Ant_Group0(V-polarization) beam ID 37 Backface -side Mid ch



(a) Measurement (b) Simulation

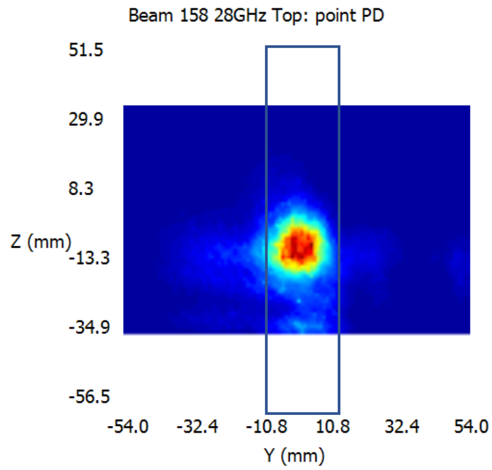
Patch antenna QTM0 AG0(V-polarization) beam ID 37， Point power density



(a) Measurement (b) Simulation

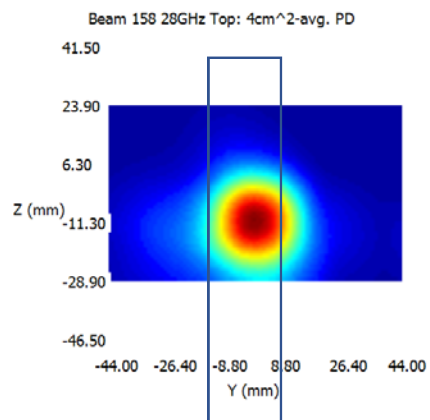
Patch antenna QTM0 AG0(V-polarization) beam ID 37 ， 4cm² Averaged power density

- N261 Patch antenna QTM0: Ant_Group1(H-polarization) beam ID 158 Topface -side Mid ch



(a) Measurement (b) Simulation

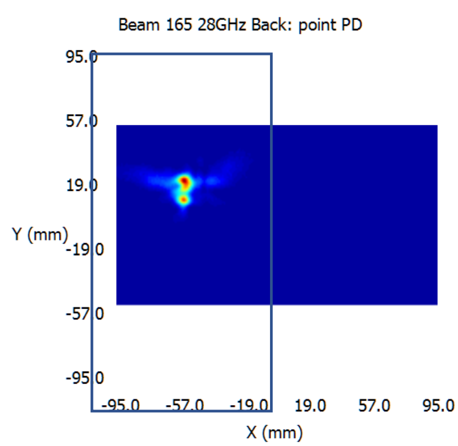
Patch antenna QTM0 AG1(H-polarization) beam ID 158， Point power density



(a) Measurement (b) Simulation

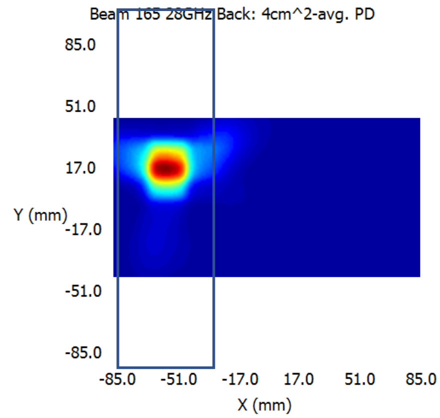
Patch antenna QTM0 AG1(H-polarization) beam ID 158， 4cm² Averaged power density

- N261 Patch antenna QTM0: Ant_Group1(H-polarization) beam ID 165 Backface -side Mid ch



(a) Measurement (b) Simulation

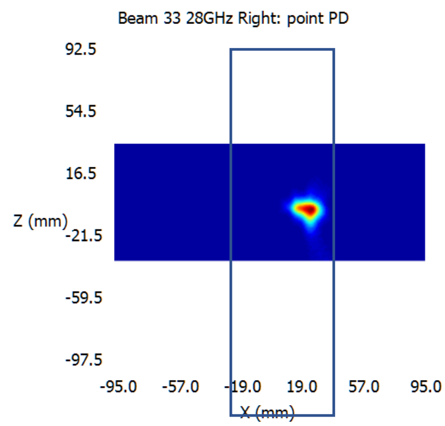
Patch antenna QTM0 AG1(H-polarization) beam ID 165， Point power density



(a) Measurement (b) Simulation

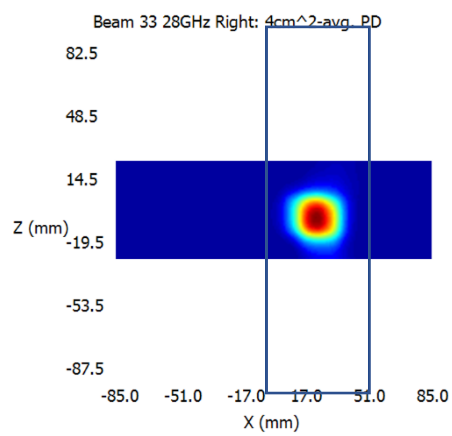
Patch antenna QTM0 AG1(H-polarization) beam ID 165， 4cm² Averaged power density

- N261 Patch antenna QTM1: Ant_Group0(V-polarization) beam ID 33 Right -side Mid ch



(a) Measurement (b) Simulation

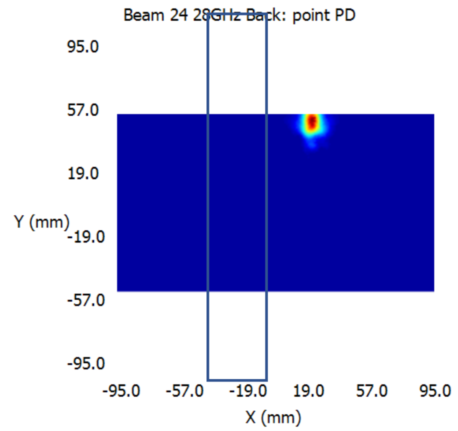
Patch antenna QTM1 AG0(V-polarization) beam ID 33， Point power density



(a) Measurement (b) Simulation

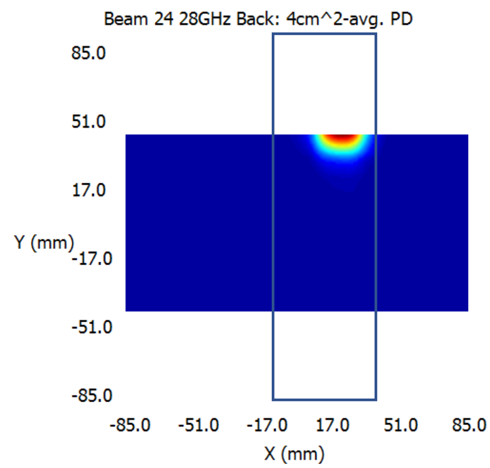
Patch antenna QTM1 AG0(V-polarization) beam ID 33，4cm² Averaged power density

- N261 Patch antenna QTM1: Ant_Group0(V-polarization) beam ID 24 Backface -side Mid ch



(a) Measurement (b) Simulation

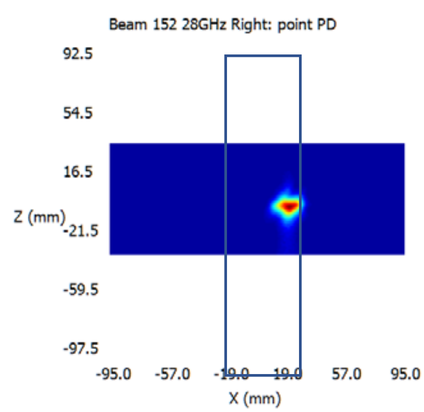
Patch antenna QTM1 AG0(V-polarization) beam ID 24， Point power density



(a) Measurement (b) Simulation

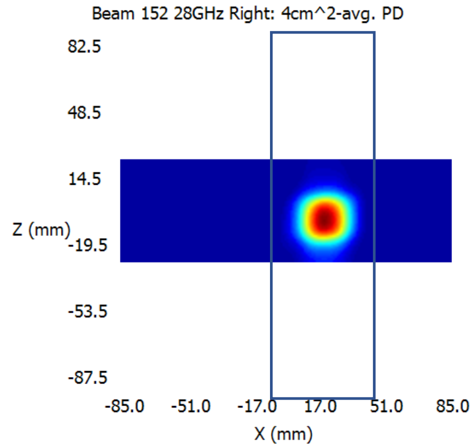
Patch antenna QTM1 AG0(V-polarization) beam ID 24，4cm^2 Averaged power density

- N261 Patch antenna QTM1: Ant_Group1(H-polarization) beam ID 152 Right -side Mid ch



(a) Measurement (b) Simulation

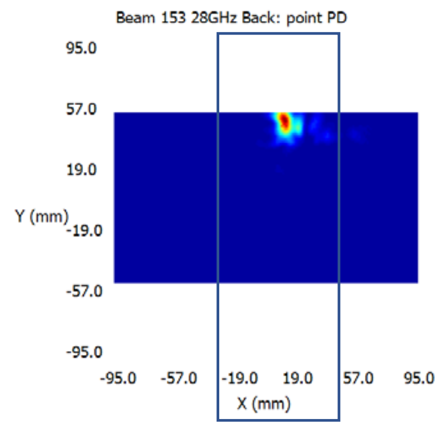
Patch antenna QTM1 AG1(H-polarization) beam ID 152， Point power density



(a) Measurement (b) Simulation

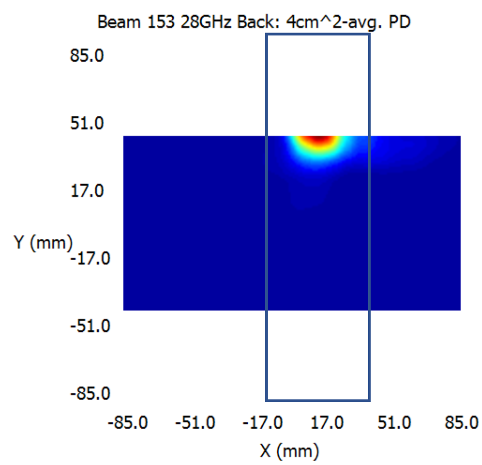
Patch antenna QTM1 AG1(H-polarization) beam ID 152，4cm² Averaged power density

- N261 Patch antenna QTM1: Ant_Group1(H-polarization) beam ID 153 Backface -side Mid ch



(a) Measurement (b) Simulation

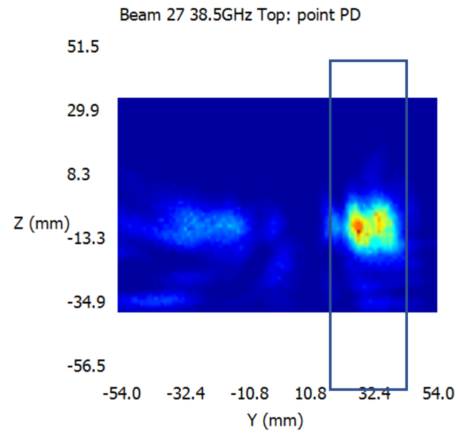
Patch antenna QTM1 AG1(H-polarization) beam ID 153， Point power density



(a) Measurement (b) Simulation

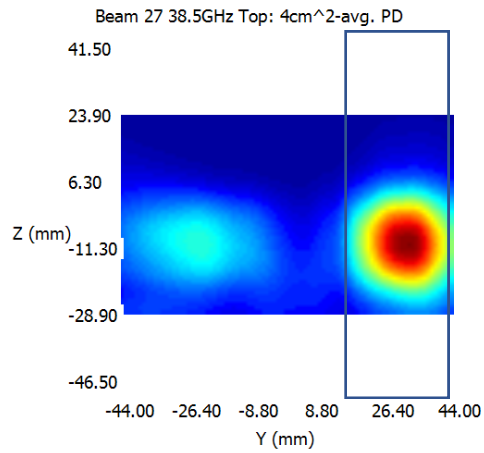
Patch antenna QTM1 AG1(H-polarization) beam ID 153，4cm² Averaged power density

- N260 Patch antenna QTM0: Ant_Group0(V-polarization) beam ID 27 Topface -side Mid ch



(a) Measurement (b) Simulation

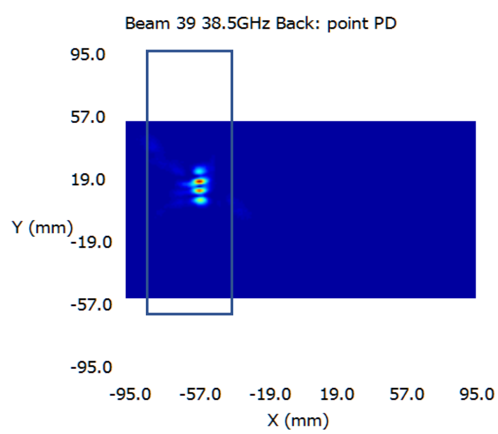
Patch antenna QTM0 AG0(V-polarization) beam ID 27， Point power density



(a) Measurement (b) Simulation

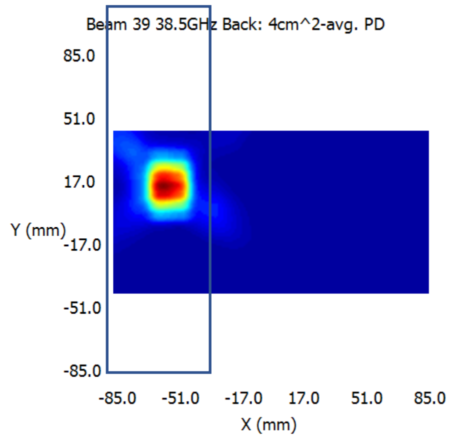
Patch antenna QTM0 AG0(V-polarization) beam ID 27，4cm² Averaged power density

- N260 Patch antenna QTM0: Ant_Group0(V-polarization) beam ID 39 Backface -side Mid ch



(a) Measurement (b) Simulation

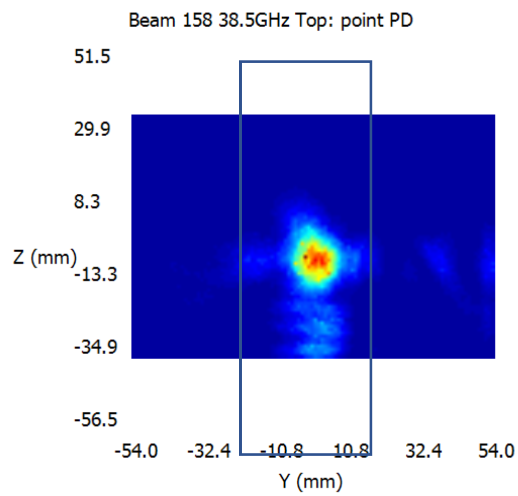
Patch antenna QTM0 AG0(V-polarization) beam ID 39， Point power density



(a) Measurement (b) Simulation

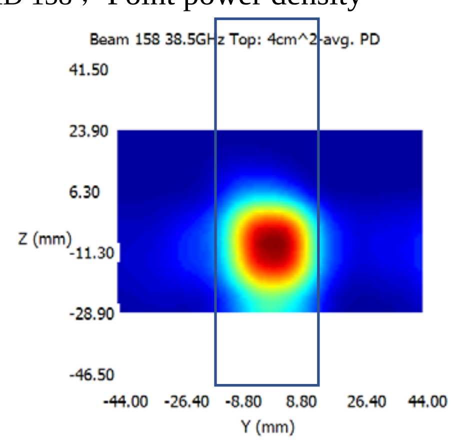
Patch antenna QTM0 AG0(V-polarization) beam ID 39，4cm² Averaged power density

- N260 Patch antenna QTM0: Ant_Group1(H-polarization) beam ID 158 Topface -side Mid ch



(a) Measurement (b) Simulation

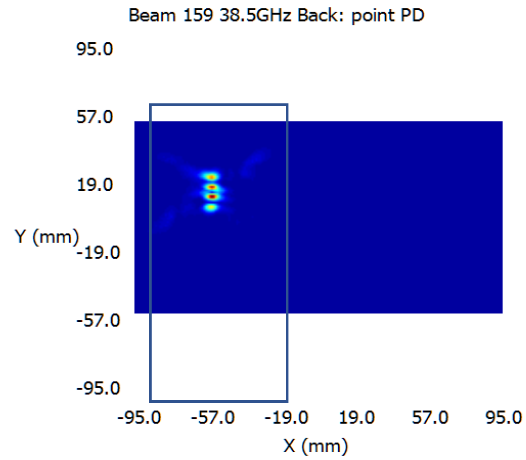
Patch antenna QTM0 AG1(H-polarization) beam ID 158， Point power density



(a) Measurement (b) Simulation

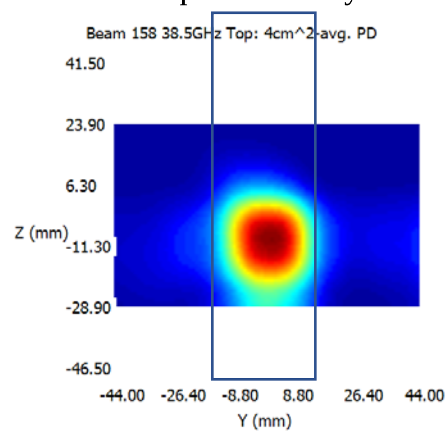
Patch antenna QTM0 AG1(H-polarization) beam ID 158，4cm² Averaged power density

- N260 Patch antenna QTM0: Ant_Group1(H-polarization) beam ID 159 Backface -side Mid ch



(a) Measurement (b) Simulation

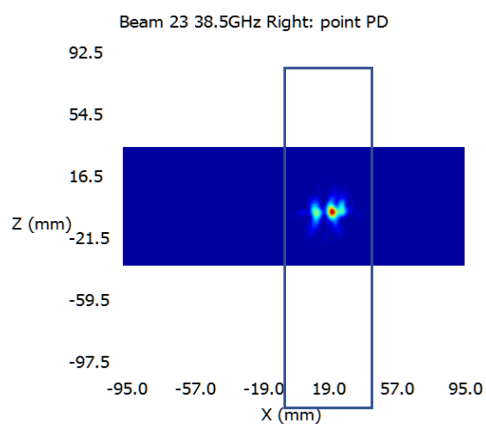
Patch antenna QTM0 AG1(H-polarization) beam ID 159， Point power density



(a) Measurement (b) Simulation

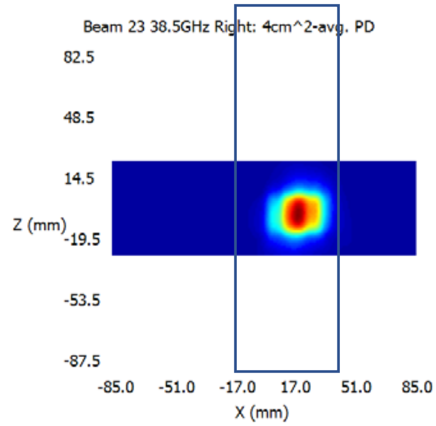
Patch antenna QTM0 AG1(H-polarization) beam ID 159，4cm² Averaged power density

- N260 Patch antenna QTM1: Ant_Group0(V-polarization) beam ID 23 Right -side Mid ch



(a) Measurement (b) Simulation

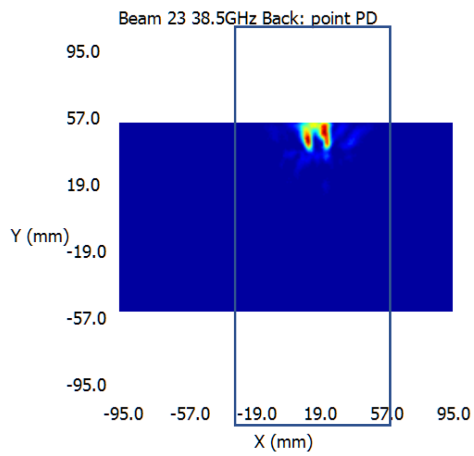
Patch antenna QTM1 AG0(V-polarization) beam ID 23， Point power density



(a) Measurement (b) Simulation

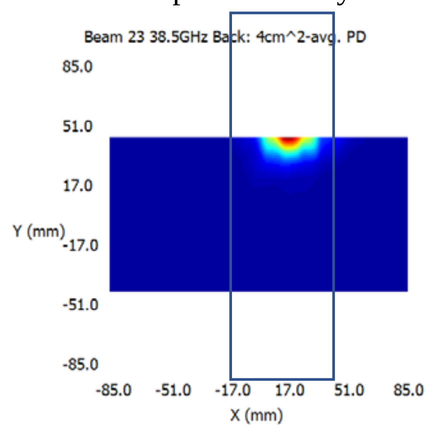
Patch antenna QTM1 AG0(V-polarization) beam ID 23，4cm² Averaged power density

- N260 Patch antenna QTM1: Ant_Group0(V-polarization) beam ID 23 Backface -side Mid ch



(a) Measurement (b) Simulation

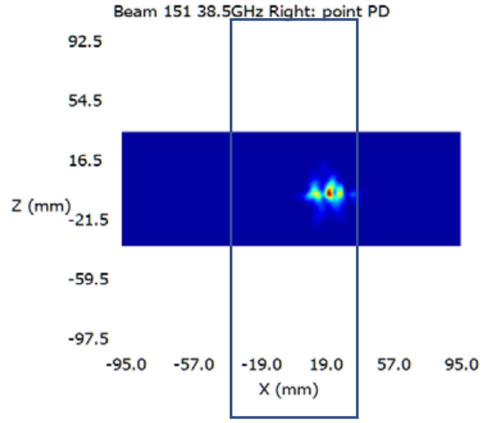
Patch antenna QTM1 AG0(V-polarization) beam ID 23， Point power density



(a) Measurement (b) Simulation

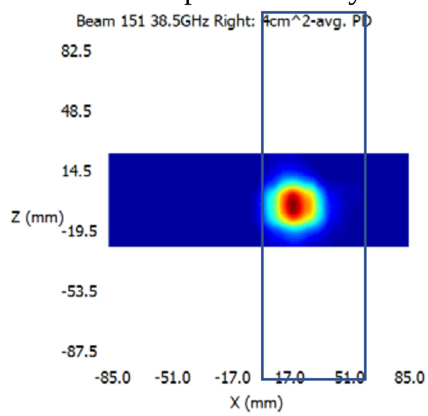
Patch antenna QTM1 AG0(V-polarization) beam ID 23，4cm² Averaged power density

- N260 Patch antenna QTM1: Ant_Group1(H-polarization) beam ID 151 Right -side Mid ch



(a) Measurement (b) Simulation

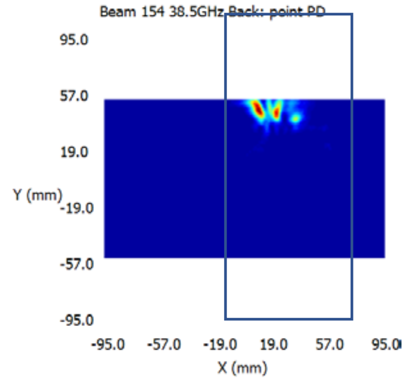
Patch antenna QTM1 AG1(H-polarization) beam ID 151， Point power density



(a) Measurement (b) Simulation

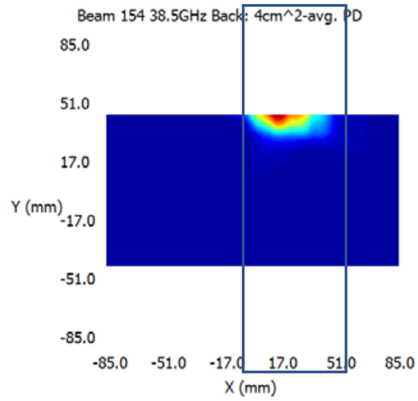
Patch antenna QTM1 AG1(H-polarization) beam ID 151，4cm^2 Averaged power density

- N260 Patch antenna QTM1: Ant_Group1(H-polarization) beam ID 154 Backface -side Mid ch



(a) Measurement (b) Simulation

Patch antenna QTM1 AG1(H-polarization) beam ID 154， Point power density



(a) Measurement (b) Simulation

Patch antenna QTM1 AG1(H-polarization) beam ID 154，$4cm^2$ Averaged power density

4 Simulation Result

The model is validated in Section 3, the PD exposure of EUT can be reliably assessed using the validated simulation approach. The PD simulation was performed at n261 and n260. The simulated PD results are reported in this section. The Ratio of PD exposure from front surface to the worst surface at 2mm, and the ratio of PD exposure from 2mm to 10mm evaluation distance for each beam are also reported for simultaneous transmission analysis

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 PD result for each MIMO beam represents the highest PD value after sweeping the relative phase between two SISO beams with a ‘5 degree’ step interval from 0 degree to 360 degree.

4.1 PD for Low/Mid/High Channel at n261 and n260

Below Tables show the PD simulation evaluation of QTM0 at N261 and N260 for all surfaces as shown in Figure 1-3.

- QTM0 N261 Low channel SISO

n261 Low ch.(27.5GHz)					4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID	Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Right (worst surface)	left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
Max Ratio											0.031	0.151	0.046	0.148	0.016							0.012	0.492	0.033	0.081	0.111	0.000
N261	1	0	Patch	1	0.05	3.85	0.07	0.33	0.25	0.02	0.013	0.0857	0.0182	0.0649	0.0052	0.03	1.41	0.06	0.18	0.15	0	0.00779	0.36623	0.01558	0.04675	0.03896	0
N261	3	0	Patch	1	0.07	5.17	0.04	0.28	0.36	0.03	0.0135	0.0542	0.0077	0.0696	0.0058	0.03	1.9	0.03	0.15	0.26	0	0.0058	0.3675	0.0058	0.02901	0.05029	0
N261	5	0	Patch	1	0.07	5.2	0.1	0.11	0.35	0.03	0.0135	0.0212	0.0192	0.0673	0.0058	0.03	1.84	0.07	0.07	0.24	0	0.00577	0.35385	0.01346	0.01346	0.04615	0
N261	7	0	Patch	1	0.06	4.19	0.09	0.13	0.24	0.02	0.0143	0.031	0.0215	0.0573	0.0048	0.03	1.5	0.07	0.08	0.16	0	0.00716	0.358	0.01671	0.01909	0.03819	0
N261	12	0	Patch	2	0.21	9.28	0.13	0.93	1.03	0.05	0.0226	0.1002	0.014	0.111	0.0054	0.1	3.37	0.09	0.5	0.73	0	0.01078	0.36315	0.0097	0.05388	0.07866	0
N261	13	0	Patch	2	0.16	10.07	0.09	0.34	0.88	0.08	0.0159	0.0338	0.0089	0.0874	0.0079	0.06	4.23	0.06	0.22	0.63	0	0.00596	0.42006	0.00596	0.02185	0.06256	0
N261	14	0	Patch	2	0.21	9.6	0.06	0.09	1.05	0.08	0.0219	0.0094	0.0063	0.1094	0.0083	0.08	4.54	0.04	0.05	0.73	0	0.00833	0.47292	0.00417	0.00521	0.07604	0
N261	15	0	Patch	2	0.11	8.84	0.18	0.54	0.61	0.03	0.0124	0.0611	0.0204	0.069	0.0034	0.05	2.55	0.13	0.29	0.43	0	0.00566	0.28846	0.01471	0.03281	0.04864	0
N261	19	0	Patch	2	0.21	9.38	0.1	0.77	0.98	0.06	0.0224	0.0821	0.0107	0.1045	0.0064	0.09	3.74	0.07	0.39	0.69	0	0.00959	0.39872	0.00746	0.04158	0.07356	0
N261	20	0	Patch	2	0.22	9.47	0.15	0.14	0.98	0.05	0.0232	0.0148	0.0158	0.1035	0.0053	0.08	4.47	0.11	0.09	0.68	0	0.00845	0.47202	0.01162	0.0095	0.07181	0
N261	21	0	Patch	2	0.08	7.75	0.13	0.72	0.36	0.06	0.0103	0.0929	0.0168	0.0465	0.0077	0.03	3.06	0.1	0.47	0.27	0	0.00387	0.39484	0.0129	0.06065	0.03484	0
N261	27	0	Patch	4	0.24	12.39	0.5	1.77	1.83	0.05	0.0194	0.1429	0.0404	0.1477	0.004	0.12	4.65	0.36	0.89	1.15	0	0.00969	0.3753	0.02906	0.07183	0.09282	0
N261	28	0	Patch	4	0.46	17.21	0.45	0.75	2.35	0.09	0.0267	0.0436	0.0261	0.1365	0.0052	0.19	7.25	0.33	0.35	1.8	0	0.01104	0.42127	0.01917	0.02034	0.10459	0
N261	29	0	Patch	4	0.44	17.76	0.14	0.39	2.04	0.17	0.0248	0.022	0.0079	0.1149	0.0096	0.17	8.68	0.1	0.21	1.61	0	0.00957	0.48874	0.00563	0.01182	0.09065	0
N261	30	0	Patch	4	0.36	17.52	0.23	0.67	1.98	0.26	0.0205	0.0382	0.0131	0.113	0.0148	0.13	8.55	0.12	0.45	1.54	0	0.00742	0.48801	0.00685	0.02568	0.0879	0
N261	31	0	Patch	4	0.24	13.65	0.51	1.21	1.32	0.03	0.0176	0.0886	0.0374	0.0967	0.0022	0.1	5.39	0.37	0.77	1.04	0	0.00733	0.39487	0.02711	0.05641	0.07619	0
N261	36	0	Patch	4	0.36	15.71	0.45	1.43	2.08	0.06	0.0229	0.091	0.0286	0.1324	0.0038	0.14	6.22	0.31	0.66	1.58	0	0.00891	0.39593	0.01973	0.04201	0.10057	0
N261	37	0	Patch	4	0.5	17.62	0.37	0.55	2.43	0.14	0.0284	0.0312	0.021	0.1379	0.0079	0.2	7.96	0.27	0.26	1.9	0	0.01135	0.45176	0.01532	0.01476	0.10783	0
N261	38	0	Patch	4	0.43	17.26	0.14	0.35	2.1	0.27	0.0249	0.0203	0.0081	0.1217	0.0156	0.17	8.49	0.1	0.23	1.64	0	0.00985	0.49189	0.00579	0.01333	0.09502	0
N261	39	0	Patch	4	0.27	17.15	0.27	1.13	1.47	0.15	0.0157	0.0659	0.0157	0.0857	0.0087	0.1	7.76	0.19	0.72	1.08	0	0.00583	0.45248	0.01108	0.04198	0.06297	0
N261	129	0	Patch	1	0.05	4.5	0.07	0.38	0.24	0.02	0.0111	0.0844	0.0156	0.0533	0.0044	0.02	1.6	0.05	0.23	0.17	0	0.00444	0.35556	0.01111	0.05111	0.03778	0
N261	131	0	Patch	1	0.09	5.04	0.05	0.24	0.35	0.02	0.0179	0.0476	0.0099	0.0694	0.004	0.03	1.86	0.04	0.16	0.24	0	0.00595	0.36905	0.00794	0.03175	0.04762	0
N261	133	0	Patch	1	0.06	4.52	0.08	0.14	0.29	0.03	0.0133	0.031	0.0177	0.0642	0.0066	0.02	1.71	0.06	0.08	0.21	0	0.00442	0.37832	0.01327	0.0177	0.04646	0
N261	135	0	Patch	1	0.03	3.3	0.09	0.12	0.15	0.03	0.0091	0.0364	0.0273	0.0455	0.0091	0.02	1.22	0.06	0.08	0.11	0	0.00606	0.3697	0.01818	0.02424	0.03333	0
N261	140	0	Patch	2	0.1	8.9	0.19	0.88	0.57	0.04	0.0112	0.0989	0.0213	0.064	0.0045	0.05	2.99	0.14	0.49	0.4	0	0.00562	0.33596	0.01573	0.05506	0.04494	0
N261	141	0	Patch	2	0.15	8.92	0.13	0.41	0.8	0.04	0.0168	0.046	0.0146	0.0897	0.0045	0.07	3.63	0.1	0.25	0.58	0	0.00785	0.40695	0.01121	0.02803	0.06502	0
N261	142	0	Patch	2	0.21	9.74	0.15	0.25	0.82	0.08	0.0216	0.0257	0.0154	0.0842	0.0082	0.07	4.42	0.11	0.16	0.58	0	0.00719	0.4538	0.01129	0.01643	0.05955	0
N261	143	0	Patch	2	0.15	8.13	0.18	1	0.58	0.02	0.0185	0.123	0.0221	0.0713	0.0025	0.07	2.3	0.13	0.64	0.44	0	0.00861	0.2829	0.01599	0.07872	0.05412	0
N261	147	0	Patch	2	0.14	8.31	0.15	0.44	0.68	0.03	0.0168	0.0529	0.0181	0.0818	0.0036	0.06	2.91	0.11	0.28	0.49	0	0.00722	0.35018	0.01324	0.03369	0.05897	0
N261	148	0	Patch	2	0.21	9.83	0.04	0.25	1.05	0.05	0.0214	0.0254	0.0041	0.1068	0.0051	0.09	4.52	0.03	0.14	0.75	0	0.00916	0.45982	0.00305	0.01424	0.0763	0
N261	149	0	Patch	2	0.2	8.45	0.14	0.9	0.74	0.03	0.0237	0.1065	0.0166	0.0876	0.0036	0.08	3.06	0.1	0.59	0.56	0	0.00947	0.36213	0.01183	0.06982	0.06627	0
N261	155	0	Patch	4	0.2	9.9	0.45	1.49	0.63	0.07	0.0202	0.1505	0.0455	0.0636	0.0071	0.11	3.01	0.31	0.8	0.43	0	0.01111	0.30404	0.03131	0.08081	0.04343	0
N261	156	0	Patch	4	0.26	15.92	0.42	1.51	1.61	0.04	0.0163	0.0948	0.0264	0.1011	0.0025	0.12	6.94	0.31	0.75	1.18	0	0.00754	0.43593	0.01947	0.04711	0.07412	0
N261	157	0	Patch	4	0.42	16.87	0.1	0.42	2.07	0.18	0.0249	0.0249	0.0059	0.1227	0.0107	0.17	7.99	0.08	0.24	1.63	0	0.01008	0.47362	0.00474	0.01423	0.09662	0
N261	158	0	Patch	4	0.52	16.65	0.16	0.66	2.31	0.17	0.0312	0.0396	0.0096	0.1387	0.0102	0.2	7.75	0.07	0.43	1.85	0	0.01201	0.46547	0.0042	0.02583	0.11111	0
N261	159	0	Patch	4	0.26	12.61	0.58	1.29	1.4	0.08	0.0206	0.1023	0.046	0.111	0.0063	0.15	4.63	0.41	0.89	1.03	0	0.0119	0.36717	0.03251	0.07058	0.08168	0
N261	164	0	Patch	4	0.26	12.2	0.45	1.65	1.11	0.04	0.0213	0.1352	0.0369	0.091	0.0033	0.14	4.96	0.35	0.9	0.73	0	0.01148	0.40656	0.02869	0.07377	0.05984	0
N261	165	0	Patch	4	0.32	17.22	0.39	0.7	2.04	0.1	0.0186	0.0407	0.0226	0.1185	0.0058	0.15	7.73	0.28	0.39	1.52	0	0.00871	0.4489	0.01626	0.02265	0.08827	0
N261	166	0	Patch	4	0.49	15.68	0.11	0.58	1.93	0.22	0.0313	0.037	0.007	0.1231	0.014	0.18	7.43	0.08	0.41	1.47	0	0.01148	0.47385	0.0051	0.02615	0.09375	0
N261	167	0	Patch	4	0.34	15.04	0.4	1.11	1.95	0.13	0.0226	0.0738	0.0266	0.1297	0.0086	0.13	6.01	0.29	0.71	1.5	0	0.00864	0.3996	0.01928	0.04721	0.09973	0

- QTM0 N261 Low channel MIMO

n261 Low ch.(27.5GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Right (worst surface)	Left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
Max Ratio												0.031	0.148	0.051	0.136	0.018							0.016	0.479	0.038	0.096	0.103	0.000
N261	129	1	0	Patch	2	0.11	9.09	0.17	1	0.61	0.05	0.012	0.110	0.019	0.067	0.006	0.05	3.22	0.13	0.6	0.4	0	0.0055	0.35424	0.0143	0.06601	0.044	0
N261	131	3	0	Patch	2	0.19	11.15	0.15	0.73	0.89	0.08	0.017	0.0655	0.013	0.080	0.007	0.08	4.11	0.12	0.46	0.62	0	0.00717	0.36861	0.01076	0.04126	0.05561	0
N261	133	5	0	Patch	2	0.18	10.56	0.32	0.4	0.88	0.09	0.017	0.038	0.030	0.083	0.009	0.07	3.9	0.23	0.26	0.62	0	0.00663	0.36932	0.02178	0.02462	0.05871	0
N261	135	7	0	Patch	4	0.13	8	0.31	0.27	0.45	0.06	0.016	0.034	0.039	0.056	0.008	0.06	2.84	0.22	0.19	0.31	0	0.0075	0.355	0.0275	0.02375	0.03875	0
N261	140	12	0	Patch	4	0.48	21.03	0.33	2.34	2.28	0.1	0.023	0.111	0.016	0.108	0.005	0.22	6.71	0.25	1.33	1.61	0	0.01046	0.31907	0.01189	0.06324	0.07656	0
N261	141	13	0	Patch	4	0.34	19.95	0.32	1.06	1.94	0.13	0.017	0.053	0.016	0.097	0.007	0.14	8.46	0.24	0.74	1.43	0	0.00702	0.42406	0.01203	0.03709	0.07168	0
N261	142	14	0	Patch	4	0.5	19.42	0.28	0.54	2.15	0.18	0.026	0.028	0.014	0.111	0.009	0.19	8.87	0.21	0.34	1.54	0	0.00978	0.45675	0.01081	0.01751	0.0793	0
N261	143	15	0	Patch	4	0.35	17.53	0.66	1.72	1.28	0.07	0.020	0.098	0.038	0.073	0.004	0.17	5.71	0.48	1.13	0.95	0	0.0097	0.32573	0.02738	0.06446	0.05419	0
N261	147	19	0	Patch	4	0.45	18.62	0.34	1.42	2.18	0.09	0.024	0.076	0.018	0.117	0.005	0.21	6.69	0.25	0.79	1.57	0	0.01128	0.35929	0.01343	0.04243	0.08432	0
N261	148	20	0	Patch	4	0.54	18.36	0.25	0.53	2.08	0.12	0.029	0.029	0.014	0.113	0.007	0.25	8.36	0.19	0.32	1.49	0	0.01362	0.45534	0.01035	0.01743	0.08115	0
N261	149	21	0	Patch	4	0.41	17.45	0.32	2.58	1.36	0.12	0.023	0.148	0.018	0.078	0.007	0.17	6.6	0.26	1.67	1.01	0	0.00974	0.37822	0.0149	0.0957	0.05788	0
N261	155	27	0	Patch	8	0.67	25.33	1.3	3.4	3.32	0.12	0.026	0.134	0.051	0.131	0.005	0.37	8.6	0.96	2.02	2.22	0	0.01461	0.33952	0.0379	0.07975	0.08764	0
N261	156	28	0	Patch	8	0.92	38	1.48	2.89	4.61	0.17	0.024	0.076	0.039	0.121	0.004	0.37	15.77	1.11	1.53	3.57	0	0.00974	0.415	0.02921	0.04026	0.09395	0
N261	157	29	0	Patch	8	0.85	36.69	0.44	1.09	4.44	0.4	0.023	0.030	0.012	0.121	0.011	0.37	17.07	0.31	0.62	3.37	0	0.01008	0.46525	0.00845	0.0169	0.09185	0
N261	158	30	0	Patch	8	0.98	37.53	0.5	2.01	4.6	0.52	0.026	0.054	0.013	0.123	0.014	0.4	16.93	0.31	1.31	3.65	0	0.01066	0.45111	0.00826	0.03491	0.09726	0
N261	159	31	0	Patch	8	0.73	27.61	1.27	3.88	3.57	0.15	0.026	0.141	0.046	0.129	0.005	0.32	10.41	0.92	2.61	2.72	0	0.01159	0.37704	0.03332	0.09453	0.09852	0
N261	164	36	0	Patch	8	0.95	30.72	1.12	3.12	4.17	0.13	0.031	0.102	0.036	0.136	0.004	0.42	11.91	0.84	1.75	3.16	0	0.01367	0.3877	0.02734	0.05697	0.10286	0
N261	165	37	0	Patch	8	0.84	38.97	1.17	1.66	4.78	0.31	0.022	0.043	0.030	0.123	0.008	0.34	16.54	0.86	0.73	3.74	0	0.00872	0.42443	0.02207	0.01873	0.09597	0
N261	166	38	0	Patch	8	0.98	33.94	0.28	1.12	4.32	0.61	0.029	0.033	0.008	0.127	0.018	0.56	16.25	0.21	0.75	3.33	0	0.0165	0.47879	0.00619	0.0221	0.09811	0
N261	167	39	0	Patch	8	0.77	35.82	0.95	3.96	4.13	0.3	0.021	0.111	0.027	0.115	0.008	0.34	14.76	0.64	2.62	3.24	0	0.00949	0.41206	0.01787	0.07314	0.09045	0

- QTM1 N261 Low channel SISO

											Max Ratio											Max Ratio					
											0.505	0.537	0.006	0.021	0.025							0.215	0.227	0.004	0.629	0.018	0.000
n261 low ch.(27.5GHz)					4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID	Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	back (worst surface)	left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm2mm	back surface 10mm2mm	left surface 10mm2mm	Right surface 10mm2mm	TOP surface 10mm2mm	Bottom surface 10mm2mm
N261	0	1	Patch	1	0.62	0.73	0.01	1.81	0.01	0.02	0.343	0.403	0.006	0.006	0.011	0.17	0.25	0	0.72	0.01	0	0.09392	0.13812	0	0.39779	0.00552	0
N261	2	1	Patch	1	0.72	1.27	0	2.98	0.01	0.02	0.242	0.426	0.000	0.003	0.007	0.2	0.41	0	1.37	0.01	0	0.06711	0.13758	0	0.45973	0.00336	0
N261	4	1	Patch	1	0.92	1.38	0	3.06	0.01	0.02	0.301	0.451	0.000	0.003	0.007	0.28	0.5	0	1.41	0.01	0	0.0915	0.1634	0	0.46078	0.00327	0
N261	6	1	Patch	1	0.93	0.98	0.01	2.44	0.01	0.02	0.381	0.402	0.004	0.004	0.008	0.28	0.32	0	1.03	0.01	0	0.11475	0.13115	0	0.42213	0.0041	0
N261	8	1	Patch	2	1.92	2.07	0.01	5.01	0.04	0.06	0.383	0.413	0.002	0.008	0.012	0.71	0.82	0.01	2	0.04	0	0.14172	0.16367	0.002	0.3992	0.00798	0
N261	9	1	Patch	2	1.51	3.16	0.01	6.06	0.02	0.03	0.249	0.521	0.002	0.003	0.005	0.44	1.21	0.01	3.56	0.02	0	0.07261	0.19967	0.00165	0.58746	0.0033	0
N261	10	1	Patch	2	1.47	2.17	0	5.1	0.01	0.01	0.288	0.425	0.000	0.002	0.002	0.53	0.83	0	2.83	0.01	0	0.10392	0.16275	0	0.5549	0.00196	0
N261	11	1	Patch	2	1.26	1.98	0.01	4.52	0.04	0.06	0.279	0.438	0.002	0.009	0.013	0.39	0.94	0.01	1.64	0.03	0	0.08628	0.20796	0.00221	0.36283	0.00664	0
N261	16	1	Patch	2	1.24	1.73	0.02	4.16	0.03	0.06	0.298	0.416	0.005	0.007	0.014	0.33	0.64	0.01	1.93	0.02	0	0.07933	0.15385	0.0024	0.46394	0.00481	0
N261	17	1	Patch	2	1.67	2.82	0.01	6.17	0	0.03	0.271	0.457	0.002	0.000	0.005	0.6	1.08	0.01	3.63	0	0	0.09724	0.17504	0.00162	0.58833	0	0
N261	18	1	Patch	2	1.37	2.16	0.01	4.83	0.03	0.04	0.284	0.447	0.002	0.006	0.008	0.45	1	0	2.15	0.02	0	0.09317	0.20704	0	0.44513	0.00414	0
N261	22	1	Patch	4	3.13	2.71	0.03	7.07	0.15	0.16	0.443	0.383	0.004	0.021	0.023	1.09	1.09	0.02	2.52	0.13	0	0.15417	0.15417	0.00283	0.35644	0.01839	0
N261	23	1	Patch	4	2.77	5.3	0.04	9.87	0.01	0.06	0.281	0.537	0.004	0.001	0.006	1.11	2.24	0.03	5.8	0.01	0	0.11246	0.22695	0.00304	0.58764	0.00101	0
N261	24	1	Patch	4	2.37	5.52	0.03	10.49	0.01	0.01	0.226	0.526	0.003	0.001	0.001	0.94	2.23	0.02	6.36	0	0	0.08961	0.21258	0.00191	0.60629	0	0
N261	25	1	Patch	4	4	3.75	0.01	10.32	0.02	0.06	0.388	0.363	0.001	0.002	0.006	1.75	1.72	0.01	5.58	0.02	0	0.16957	0.16667	0.00097	0.5407	0.00194	0
N261	26	1	Patch	4	3.77	3.02	0.02	7.47	0.11	0.19	0.505	0.404	0.003	0.015	0.025	1.51	1.48	0.01	2.86	0.09	0	0.20214	0.19813	0.00134	0.38286	0.01205	0
N261	32	1	Patch	4	3.25	3.78	0.04	7.74	0.08	0.13	0.420	0.488	0.005	0.010	0.017	1.25	1.63	0.03	3.47	0.07	0	0.1615	0.21059	0.00388	0.44832	0.00904	0
N261	33	1	Patch	4	2.47	5.66	0.03	10.6	0.01	0.03	0.233	0.534	0.003	0.001	0.003	0.92	2.29	0.02	6.56	0.01	0	0.08679	0.21604	0.00189	0.61887	0.00094	0
N261	34	1	Patch	4	2.85	4.78	0.02	10.18	0.01	0.01	0.280	0.470	0.002	0.001	0.001	1.25	1.88	0.01	6.01	0.01	0	0.12279	0.18468	0.00098	0.59037	0.00098	0
N261	35	1	Patch	4	4.25	3.2	0.01	9.13	0.04	0.18	0.465	0.350	0.001	0.004	0.020	1.81	1.68	0.01	4.18	0.04	0	0.19825	0.18401	0.0011	0.45783	0.00438	0
N261	128	1	Patch	1	0.61	1.36	0.01	2.76	0.01	0.02	0.221	0.493	0.004	0.004	0.007	0.14	0.45	0	1.36	0.01	0	0.05072	0.16304	0	0.49275	0.00362	0
N261	130	1	Patch	1	1.06	1.21	0.01	3.1	0	0.02	0.342	0.390	0.003	0.000	0.006	0.32	0.39	0	1.38	0	0	0.10323	0.12581	0	0.44516	0	0
N261	132	1	Patch	1	0.63	1.06	0	2.66	0.01	0.03	0.237	0.398	0.000	0.004	0.011	0.18	0.37	0	1.08	0.01	0	0.06767	0.1391	0	0.40602	0.00376	0
N261	134	1	Patch	1	0.52	0.69	0	1.92	0.01	0.03	0.271	0.359	0.000	0.005	0.016	0.14	0.23	0	0.77	0.01	0	0.07292	0.11979	0	0.40104	0.00521	0
N261	136	1	Patch	2	1.06	1.66	0.01	4.11	0.02	0.07	0.258	0.404	0.002	0.005	0.017	0.38	0.69	0.01	1.47	0.02	0	0.09246	0.16788	0.00243	0.35766	0.00487	0
N261	137	1	Patch	2	1.6	2.59	0.01	5.63	0.01	0.03	0.284	0.460	0.002	0.002	0.005	0.64	1.01	0.01	3.13	0.01	0	0.11368	0.1794	0.00178	0.55595	0.00178	0
N261	138	1	Patch	2	1.35	2.96	0.01	5.83	0.02	0.03	0.232	0.508	0.002	0.003	0.005	0.43	1.16	0.01	3.36	0.02	0	0.07376	0.19897	0.00172	0.57633	0.00343	0
N261	139	1	Patch	2	1.72	2.21	0.01	5.6	0.03	0.07	0.307	0.395	0.002	0.005	0.013	0.53	0.88	0.01	2.38	0.02	0	0.09464	0.15714	0.00179	0.425	0.00357	0
N261	144	1	Patch	2	1.92	2	0.01	5.29	0.02	0.05	0.363	0.378	0.002	0.004	0.009	0.73	0.76	0.01	2.49	0.02	0	0.138	0.14367	0.00189	0.4707	0.00378	0
N261	145	1	Patch	2	1.25	2.96	0.01	5.64	0.01	0.01	0.222	0.525	0.002	0.002	0.002	0.4	1.18	0.01	3.45	0.01	0	0.07092	0.20922	0.00177	0.6117	0.00177	0
N261	146	1	Patch	2	1.12	1.45	0.01	4.29	0.02	0.1	0.261	0.338	0.002	0.005	0.023	0.3	0.54	0.01	1.47	0.02	0	0.06993	0.12587	0.00233	0.34266	0.00466	0
N261	150	1	Patch	4	3.29	2.96	0.01	7.11	0.05	0.14	0.463	0.416	0.001	0.007	0.020	1.53	1.26	0.01	3.06	0.04	0	0.21519	0.17722	0.00141	0.43038	0.00563	0
N261	151	1	Patch	4	2.96	4.15	0.01	9.63	0.01	0.03	0.307	0.431	0.001	0.001	0.003	1.29	1.82	0.01	5.46	0.01	0	0.13396	0.18899	0.00104	0.56698	0.00104	0
N261	152	1	Patch	4	2.14	5.32	0.02	10.38	0.01	0.01	0.206	0.513	0.002	0.001	0.001	0.73	2.21	0.01	6.5	0.01	0	0.07033	0.21291	0.00096	0.6262	0.00096	0
N261	153	1	Patch	4	2.71	4.97	0.03	9.85	0.02	0.14	0.275	0.505	0.003	0.002	0.014	0.86	2.02	0.03	5.7	0.02	0	0.08731	0.20508	0.00305	0.57868	0.00203	0
N261	154	1	Patch	4	2.57	2.68	0.02	7.71	0.06	0.17	0.333	0.348	0.003	0.008	0.022	0.87	1.1	0.02	2.86	0.05	0	0.11284	0.14267	0.00259	0.37095	0.00649	0
N261	160	1	Patch	4	3.46	3.26	0.01	7.92	0.03	0.11	0.437	0.412	0.001	0.004	0.014	1.58	1.45	0.01	3.79	0.03	0	0.19949	0.18308	0.00126	0.47854	0.00379	0
N261	161	1	Patch	4	2.46	4.57	0.01	9.67	0.01	0.02	0.254	0.473	0.001	0.001	0.002	1.04	1.99	0.01	5.81	0.01	0	0.10755	0.20579	0.00103	0.60083	0.00103	0
N261	162	1	Patch	4	2.24	5.44	0.03	10.13	0.03	0.02	0.221	0.537	0.003	0.003	0.002	0.75	2.17	0.02	6.37	0.02	0	0.07404	0.21422	0.00197	0.62883	0.00197	0
N261	163	1	Patch	4	2.71	4.05	0.03	9.01	0.03	0.18	0.301	0.450	0.003	0.003	0.020	0.9	1.71	0.03	4.53	0.03	0	0.09989	0.18979	0.00333	0.50277	0.00333	0

- QTM1 N261 Low channel MIMO

n261 low ch.(27.5GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	back (worst surface)	left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm2mm	back surface 10mm2mm	left surface 10mm2mm	Right surface 10mm2mm	TOP surface 10mm2mm	Bottom surface 10mm2mm
												Max Ratio											Max Ratio					
												0.514	0.004	0.566	0.017	0.036							0.204	0.258	0.003	0.675	0.015	0.000
N261	128	0	1	Patch	2	1.5	2.64	0.01	4.85	0.04	0.07	0.309	0.002	0.544	0.008	0.014	0.44	1.01	0.01	2.53	0.04	0	0.09072	0.20825	0.00206	0.52165	0.00825	0
N261	130	2	1	Patch	2	2.31	3.25	0.01	6.96	0.02	0.06	0.332	0.001	0.467	0.003	0.009	0.69	1.04	0.01	3.61	0.02	0	0.09914	0.14943	0.00144	0.51868	0.00287	0
N261	132	4	1	Patch	2	1.88	3.04	0.01	6.55	0.03	0.08	0.287	0.002	0.464	0.005	0.012	0.56	1.07	0.01	3.24	0.03	0	0.0855	0.16336	0.00153	0.49466	0.00458	0
N261	134	6	1	Patch	4	1.96	2.39	0.01	5.04	0.03	0.09	0.389	0.002	0.474	0.006	0.018	0.66	0.79	0.01	2.48	0.03	0	0.13095	0.15675	0.00198	0.49206	0.00595	0
N261	136	8	1	Patch	4	4.33	5.56	0.03	10.42	0.09	0.23	0.416	0.003	0.534	0.009	0.022	1.73	2.2	0.02	4.69	0.08	0	0.16603	0.21113	0.00192	0.4501	0.00768	0
N261	137	9	1	Patch	4	3.63	7.54	0.02	14.7	0.04	0.06	0.247	0.001	0.513	0.003	0.004	1.43	2.65	0.02	8.89	0.04	0	0.09728	0.18027	0.00136	0.60476	0.00272	0
N261	138	10	1	Patch	4	3.78	6.15	0.02	12.41	0.04	0.05	0.305	0.002	0.496	0.003	0.004	1.43	2.57	0.02	7.73	0.04	0	0.11523	0.20709	0.00161	0.62288	0.00322	0
N261	139	11	1	Patch	4	3.88	5.59	0.03	10.89	0.1	0.2	0.356	0.003	0.513	0.009	0.018	1.24	2.68	0.02	5.28	0.09	0	0.11387	0.2461	0.00184	0.48485	0.00826	0
N261	144	16	1	Patch	4	4.13	4.83	0.03	9.95	0.06	0.18	0.415	0.003	0.485	0.006	0.018	1.52	2	0.02	5.12	0.05	0	0.15276	0.20101	0.00201	0.51457	0.00503	0
N261	145	17	1	Patch	4	3.72	6.6	0.03	13.41	0.02	0.06	0.277	0.002	0.492	0.001	0.004	1.35	2.4	0.03	8.55	0.02	0	0.10067	0.17897	0.00224	0.63758	0.00149	0
N261	146	18	1	Patch	4	2.45	4.45	0.02	9.35	0.07	0.24	0.262	0.002	0.476	0.007	0.026	0.82	1.76	0.01	4.14	0.06	0	0.0877	0.18824	0.00107	0.44278	0.00642	0
N261	150	22	1	Patch	8	7.94	7.09	0.06	15.44	0.27	0.37	0.514	0.004	0.459	0.017	0.024	3.15	3.02	0.05	5.87	0.23	0	0.20402	0.1956	0.00324	0.38018	0.0149	0
N261	151	23	1	Patch	8	6.46	11.64	0.06	23.15	0.03	0.13	0.279	0.003	0.503	0.001	0.006	2.82	4.64	0.05	14.52	0.02	0	0.12181	0.20043	0.00216	0.62721	0.00086	0
N261	152	24	1	Patch	8	5.19	14.67	0.06	25.92	0.02	0.05	0.200	0.002	0.566	0.001	0.002	2.03	5.44	0.05	17.49	0.02	0	0.07832	0.20988	0.00193	0.67477	0.00077	0
N261	153	25	1	Patch	8	7.92	9.32	0.05	22.87	0.06	0.36	0.346	0.002	0.408	0.003	0.016	3.35	4.34	0.04	14.08	0.06	0	0.14648	0.18977	0.00175	0.61565	0.00262	0
N261	154	26	1	Patch	8	7.08	8.19	0.05	17.17	0.21	0.56	0.412	0.003	0.477	0.012	0.033	2.74	3.79	0.04	5.7	0.18	0	0.15958	0.22073	0.00233	0.33197	0.01048	0
N261	160	32	1	Patch	8	7.35	8.05	0.06	16.72	0.16	0.31	0.440	0.004	0.481	0.010	0.019	2.9	3.67	0.05	7.58	0.14	0	0.17344	0.2195	0.00299	0.45335	0.00837	0
N261	161	33	1	Patch	8	5.78	13.5	0.05	24.98	0.02	0.07	0.231	0.002	0.540	0.001	0.003	2.44	5.16	0.04	16.54	0.02	0	0.09768	0.20657	0.0016	0.66213	0.0008	0
N261	162	34	1	Patch	8	6.21	13.06	0.06	25	0.06	0.05	0.248	0.002	0.522	0.002	0.002	2.52	4.72	0.05	16.34	0.05	0	0.1008	0.1888	0.002	0.6536	0.002	0
N261	163	35	1	Patch	8	8.08	9.75	0.06	18.87	0.07	0.67	0.428	0.003	0.517	0.004	0.036	3.37	4.87	0.05	9.68	0.06	0	0.17859	0.25808	0.00265	0.51298	0.00318	0

- QTM0 N261 Middle channel SISO

												Max Ratio												Max Ratio					
												0.032	0.136	0.055	0.152	0.014							0.012	0.500	0.040	0.081	0.105	0.000
n261 Mid ch.(28GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
N261		1	0	Patch	1	0.05	3.93	0.06	0.31	0.25	0.02	0.013	0.079	0.015	0.064	0.005	0.03	1.48	0.05	0.18	0.16	0	0.00763	0.37659	0.01272	0.0458	0.04071	0
N261		3	0	Patch	1	0.07	4.88	0.05	0.23	0.38	0.03	0.014	0.047	0.010	0.078	0.006	0.03	1.88	0.04	0.13	0.27	0	0.00615	0.38525	0.0082	0.02664	0.05533	0
N261		5	0	Patch	1	0.06	4.93	0.11	0.1	0.31	0.03	0.012	0.020	0.022	0.063	0.006	0.03	1.83	0.08	0.07	0.22	0	0.00609	0.3712	0.01623	0.0142	0.04462	0
N261		7	0	Patch	1	0.06	3.96	0.1	0.14	0.21	0.02	0.015	0.035	0.025	0.053	0.005	0.02	1.44	0.08	0.09	0.15	0	0.00505	0.36364	0.0202	0.02273	0.03788	0
N261		12	0	Patch	2	0.23	9.23	0.13	0.82	1.11	0.04	0.025	0.089	0.014	0.120	0.004	0.1	3.51	0.1	0.46	0.79	0	0.01083	0.38028	0.01083	0.04984	0.08559	0
N261		13	0	Patch	2	0.18	9.76	0.1	0.32	0.89	0.07	0.018	0.033	0.010	0.091	0.007	0.07	4.15	0.07	0.24	0.64	0	0.00717	0.4252	0.00717	0.02459	0.06557	0
N261		14	0	Patch	2	0.18	9.12	0.06	0.08	0.94	0.08	0.020	0.009	0.007	0.103	0.009	0.07	4.41	0.04	0.05	0.66	0	0.00768	0.48355	0.00439	0.00548	0.07237	0
N261		15	0	Patch	2	0.11	8.21	0.19	0.5	0.57	0.03	0.013	0.061	0.023	0.069	0.004	0.05	2.45	0.14	0.33	0.42	0	0.00609	0.29842	0.01705	0.04019	0.05116	0
N261		19	0	Patch	2	0.22	9.41	0.1	0.69	1.08	0.05	0.023	0.073	0.011	0.115	0.005	0.09	3.93	0.08	0.37	0.76	0	0.00956	0.41764	0.0085	0.03932	0.08077	0
N261		20	0	Patch	2	0.2	8.98	0.18	0.11	0.9	0.05	0.022	0.012	0.020	0.100	0.006	0.07	4.39	0.13	0.08	0.63	0	0.0078	0.48886	0.01448	0.00891	0.07016	0
N261		21	0	Patch	2	0.08	7.55	0.12	0.76	0.32	0.06	0.011	0.101	0.016	0.042	0.008	0.03	3	0.09	0.49	0.24	0	0.00397	0.39735	0.01192	0.0649	0.03179	0
N261		27	0	Patch	4	0.26	11.61	0.52	1.58	1.77	0.04	0.022	0.136	0.045	0.152	0.003	0.13	4.31	0.37	0.83	1.16	0	0.0112	0.37123	0.03187	0.07149	0.09991	0
N261		28	0	Patch	4	0.46	17.22	0.47	0.7	2.32	0.09	0.027	0.041	0.027	0.135	0.005	0.18	7.39	0.35	0.35	1.76	0	0.01045	0.42915	0.02033	0.02033	0.10221	0
N261		29	0	Patch	4	0.46	17.54	0.17	0.35	2	0.15	0.026	0.020	0.010	0.114	0.009	0.17	8.74	0.12	0.2	1.59	0	0.00969	0.49829	0.00684	0.0114	0.09065	0
N261		30	0	Patch	4	0.32	16.66	0.2	0.81	1.78	0.23	0.019	0.049	0.012	0.107	0.014	0.11	8.21	0.14	0.55	1.4	0	0.0066	0.4928	0.0084	0.03301	0.08403	0
N261		31	0	Patch	4	0.24	13.15	0.49	1.11	1.18	0.05	0.018	0.084	0.037	0.090	0.004	0.1	5.15	0.36	0.71	0.92	0	0.0076	0.39163	0.02738	0.05399	0.06996	0
N261		36	0	Patch	4	0.38	15.2	0.49	1.23	2.04	0.06	0.025	0.081	0.032	0.134	0.004	0.14	5.94	0.35	0.58	1.54	0	0.00921	0.39079	0.02303	0.03816	0.10132	0
N261		37	0	Patch	4	0.53	17.58	0.42	0.52	2.37	0.13	0.030	0.030	0.024	0.135	0.007	0.2	8.16	0.3	0.29	1.84	0	0.01138	0.46416	0.01706	0.0165	0.10466	0
N261		38	0	Patch	4	0.41	17.04	0.13	0.31	1.9	0.24	0.024	0.018	0.008	0.112	0.014	0.16	8.52	0.1	0.21	1.48	0	0.00939	0.5	0.00587	0.01232	0.08685	0
N261		39	0	Patch	4	0.27	16.5	0.29	1.09	1.45	0.13	0.016	0.066	0.018	0.088	0.008	0.1	7.28	0.21	0.7	1.11	0	0.00606	0.44121	0.01273	0.04242	0.06727	0
N261		129	0	Patch	1	0.05	4.52	0.08	0.39	0.24	0.02	0.011	0.086	0.018	0.053	0.004	0.02	1.6	0.05	0.23	0.17	0	0.00442	0.35398	0.01106	0.05088	0.03761	0
N261		131	0	Patch	1	0.07	4.82	0.06	0.23	0.33	0.02	0.015	0.048	0.012	0.068	0.004	0.03	1.82	0.04	0.15	0.24	0	0.00622	0.37759	0.0083	0.03112	0.04979	0
N261		133	0	Patch	1	0.07	4.27	0.09	0.13	0.29	0.02	0.016	0.030	0.021	0.068	0.005	0.02	1.67	0.07	0.08	0.21	0	0.00468	0.3911	0.01639	0.01874	0.04918	0
N261		135	0	Patch	1	0.03	3.1	0.1	0.1	0.15	0.02	0.010	0.032	0.032	0.048	0.006	0.02	1.17	0.07	0.07	0.1	0	0.00645	0.37742	0.02258	0.02258	0.03226	0
N261		140	0	Patch	2	0.1	8.49	0.23	0.81	0.52	0.04	0.012	0.095	0.027	0.061	0.005	0.05	2.84	0.17	0.46	0.36	0	0.00589	0.33451	0.02002	0.05418	0.0424	0
N261		141	0	Patch	2	0.16	8.33	0.14	0.37	0.76	0.03	0.019	0.044	0.017	0.091	0.004	0.07	3.36	0.1	0.24	0.56	0	0.0084	0.40336	0.012	0.02881	0.06723	0
N261		142	0	Patch	2	0.21	9.47	0.18	0.21	0.78	0.07	0.022	0.022	0.019	0.082	0.007	0.07	4.31	0.13	0.14	0.56	0	0.00739	0.45512	0.01373	0.01478	0.05913	0
N261		143	0	Patch	2	0.14	8.04	0.22	1	0.56	0.02	0.017	0.124	0.027	0.070	0.002	0.07	2.29	0.16	0.63	0.43	0	0.00871	0.28483	0.0199	0.07836	0.05348	0
N261		147	0	Patch	2	0.14	7.69	0.16	0.4	0.64	0.03	0.018	0.052	0.021	0.083	0.004	0.06	2.66	0.11	0.27	0.48	0	0.0078	0.3459	0.0143	0.03511	0.06242	0
N261		148	0	Patch	2	0.18	9.78	0.03	0.26	0.97	0.05	0.018	0.027	0.003	0.099	0.005	0.08	4.64	0.03	0.15	0.7	0	0.00818	0.47444	0.00307	0.01534	0.07157	0
N261		149	0	Patch	2	0.18	8.45	0.16	0.93	0.69	0.03	0.021	0.110	0.019	0.082	0.004	0.08	3.06	0.12	0.6	0.52	0	0.00947	0.36213	0.0142	0.07101	0.06154	0
N261		155	0	Patch	4	0.18	9.29	0.5	1.22	0.58	0.06	0.019	0.131	0.054	0.062	0.006	0.1	2.82	0.37	0.67	0.35	0	0.01076	0.30355	0.03983	0.07212	0.03767	0
N261		156	0	Patch	4	0.26	15	0.44	1.25	1.54	0.05	0.017	0.083	0.029	0.103	0.003	0.13	6.41	0.33	0.64	1.09	0	0.00867	0.42733	0.022	0.04267	0.07267	0
N261		157	0	Patch	4	0.42	16.43	0.13	0.41	1.88	0.17	0.026	0.025	0.008	0.114	0.010	0.16	7.82	0.1	0.23	1.47	0	0.00974	0.47596	0.00609	0.014	0.08947	0
N261		158	0	Patch	4	0.51	16.33	0.14	0.79	2.12	0.14	0.031	0.048	0.009	0.130	0.009	0.2	7.62	0.07	0.52	1.67	0	0.01225	0.46663	0.00429	0.03184	0.10227	0
N261		159	0	Patch	4	0.24	12.14	0.67	1.4	1.36	0.06	0.020	0.115	0.055	0.112	0.005	0.14	4.49	0.47	0.98	1.05	0	0.01153	0.36985	0.03871	0.08072	0.08649	0
N261		164	0	Patch	4	0.21	11.05	0.46	1.37	0.99	0.04	0.019	0.124	0.042	0.090	0.004	0.12	4.39	0.34	0.82	0.66	0	0.01086	0.39729	0.03077	0.07421	0.05973	0
N261		165	0	Patch	4	0.35	16.74	0.44	0.68	1.98	0.09	0.021	0.041	0.026	0.118	0.005	0.17	7.57	0.31	0.35	1.51	0	0.01016	0.45221	0.01852	0.02091	0.0902	0
N261		166	0	Patch	4	0.5	15.59	0.12	0.54	1.83	0.19	0.032	0.035	0.008	0.117	0.012	0.17	7.44	0.08	0.37	1.39	0	0.0109	0.47723	0.00513	0.02373	0.08916	0
N261		167	0	Patch	4	0.34	14.63	0.46	1.23	1.93	0.11	0.023	0.084	0.031	0.132	0.008	0.12	5.84	0.33	0.79	1.51	0	0.0082	0.39918	0.02256	0.054	0.10321	0

- QTM0 N261 Middle channel MIMO

n261 Mid ch.(28GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
												Max Ratio											Max Ratio					
												0.032	0.167	0.063	0.138	0.014							0.015	0.462	0.046	0.110	0.106	0.000
N261	129	1	0	Patch	2	0.1	9.03	0.14	1.09	0.59	0.05	0.011	0.121	0.016	0.065	0.006	0.05	3.41	0.11	0.67	0.4	0	0.00554	0.37763	0.01218	0.0742	0.0443	0
N261	131	3	0	Patch	2	0.19	10.7	0.16	0.65	0.9	0.07	0.018	0.061	0.015	0.084	0.007	0.09	4.19	0.12	0.41	0.63	0	0.00841	0.39159	0.01121	0.03832	0.05888	0
N261	133	5	0	Patch	2	0.18	10.12	0.37	0.4	0.88	0.09	0.018	0.040	0.037	0.087	0.009	0.07	3.94	0.26	0.26	0.62	0	0.00692	0.38933	0.02569	0.02569	0.06126	0
N261	135	7	0	Patch	4	0.13	7.53	0.37	0.24	0.42	0.05	0.017	0.032	0.049	0.056	0.007	0.06	2.69	0.27	0.15	0.29	0	0.00797	0.35724	0.03586	0.01992	0.03851	0
N261	140	12	0	Patch	4	0.45	20.69	0.41	2.18	2.22	0.09	0.022	0.105	0.020	0.107	0.004	0.2	6.93	0.29	1.26	1.61	0	0.00967	0.33494	0.01402	0.0609	0.07782	0
N261	141	13	0	Patch	4	0.38	18.61	0.31	1.06	1.79	0.13	0.020	0.057	0.017	0.096	0.007	0.17	7.9	0.22	0.76	1.32	0	0.00913	0.4245	0.01182	0.04084	0.07093	0
N261	142	14	0	Patch	4	0.48	18.99	0.33	0.48	2.04	0.17	0.025	0.025	0.017	0.107	0.009	0.18	8.69	0.25	0.31	1.48	0	0.00948	0.45761	0.01316	0.01632	0.07794	0
N261	143	15	0	Patch	4	0.32	17.19	0.74	1.74	1.27	0.08	0.019	0.101	0.043	0.074	0.005	0.15	5.74	0.54	1.13	0.94	0	0.00873	0.33392	0.03141	0.06574	0.05468	0
N261	147	19	0	Patch	4	0.46	18.8	0.33	1.26	2.26	0.08	0.024	0.067	0.018	0.120	0.004	0.21	7	0.24	0.69	1.63	0	0.01117	0.37234	0.01277	0.0367	0.0867	0
N261	148	20	0	Patch	4	0.48	18.32	0.29	0.55	2	0.12	0.026	0.030	0.016	0.109	0.007	0.22	8.47	0.22	0.33	1.48	0	0.01201	0.46234	0.01201	0.01801	0.08079	0
N261	149	21	0	Patch	4	0.39	17.05	0.39	2.85	1.28	0.13	0.023	0.167	0.023	0.075	0.008	0.16	6.42	0.29	1.87	0.94	0	0.00938	0.37654	0.01701	0.10968	0.05513	0
N261	155	27	0	Patch	8	0.67	24.39	1.54	3.26	3.16	0.14	0.027	0.134	0.063	0.130	0.006	0.36	8.57	1.11	1.93	2.14	0	0.01476	0.35137	0.04551	0.07913	0.08774	0
N261	156	28	0	Patch	8	0.83	36.49	1.5	2.67	4.2	0.15	0.023	0.073	0.041	0.115	0.004	0.33	14.94	1.08	1.43	3.23	0	0.00904	0.40943	0.0296	0.03919	0.08852	0
N261	157	29	0	Patch	8	0.99	37.47	0.57	1.11	4.56	0.38	0.026	0.030	0.015	0.122	0.010	0.42	17.22	0.42	0.64	3.51	0	0.01121	0.45957	0.01121	0.01708	0.09367	0
N261	158	30	0	Patch	8	0.84	37.3	0.43	2.52	4.11	0.46	0.023	0.068	0.012	0.110	0.012	0.36	16.44	0.31	1.67	3.2	0	0.00965	0.44075	0.00831	0.04477	0.08579	0
N261	159	31	0	Patch	8	0.69	26.79	1.45	3.39	3.45	0.16	0.026	0.127	0.054	0.129	0.006	0.27	10.79	1.01	2.3	2.66	0	0.01008	0.40276	0.0377	0.08585	0.09929	0
N261	164	36	0	Patch	8	0.88	27.93	1.17	2.8	3.86	0.15	0.032	0.100	0.042	0.138	0.005	0.38	10.56	0.83	1.67	2.96	0	0.01361	0.37809	0.02972	0.05979	0.10598	0
N261	165	37	0	Patch	8	1	39.12	1.4	1.47	4.89	0.25	0.026	0.038	0.036	0.125	0.006	0.44	16.93	1.03	0.7	3.63	0	0.01125	0.43277	0.02633	0.01789	0.09279	0
N261	166	38	0	Patch	8	0.92	35.38	0.26	1.25	4.29	0.51	0.026	0.035	0.007	0.121	0.014	0.51	16.2	0.22	0.85	3.25	0	0.01441	0.45789	0.00622	0.02402	0.09186	0
N261	167	39	0	Patch	8	0.73	34.47	0.99	4.03	3.99	0.25	0.021	0.117	0.029	0.116	0.007	0.35	13.92	0.7	2.71	3.12	0	0.01015	0.40383	0.02031	0.07862	0.09051	0

- QTM1 N261 Middle channel SISO

											Max Ratio											Max Ratio					
											0.510	0.005	0.546	0.021	0.028							0.218	0.226	0.004	0.616	0.019	0.010
n261 Mid ch.(28GHz)					4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
					relative phase worst PD for MIMO						Front /	left	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID	Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm
N261	0	1	Patch	1	0.57	0.88	0	2.1	0.01	0.03	0.271	0.000	0.419	0.005	0.014	0.14	0.3	0	0.84	0.01	0.01	0.06667	0.14286	0	0.4	0.00476	0.00476
N261	2	1	Patch	1	0.71	1.21	0.01	2.88	0.01	0.03	0.247	0.003	0.420	0.003	0.010	0.2	0.38	0	1.21	0.01	0.01	0.06944	0.13194	0	0.42014	0.00347	0.00347
N261	4	1	Patch	1	0.9	1.25	0	2.94	0.01	0.02	0.306	0.000	0.425	0.003	0.007	0.28	0.44	0	1.34	0.01	0.02	0.09524	0.14966	0	0.45578	0.0034	0.0068
N261	6	1	Patch	1	0.86	1.02	0.01	2.34	0.01	0.03	0.368	0.004	0.436	0.004	0.013	0.25	0.32	0	0.99	0.01	0	0.10684	0.13675	0	0.42308	0.00427	0
N261	8	1	Patch	2	1.81	2.13	0.01	4.81	0.04	0.07	0.376	0.002	0.443	0.008	0.015	0.65	0.84	0.01	1.79	0.03	0.01	0.13514	0.17464	0.00208	0.37214	0.00624	0.00208
N261	9	1	Patch	2	1.48	2.98	0.01	5.75	0.02	0.04	0.257	0.002	0.518	0.003	0.007	0.43	1.12	0.01	3.29	0.02	0.02	0.07478	0.19478	0.00174	0.57217	0.00348	0.00348
N261	10	1	Patch	2	1.41	2.16	0	5.01	0.01	0.01	0.281	0.000	0.431	0.002	0.002	0.48	0.83	0	2.82	0.01	0.01	0.09581	0.16567	0	0.56287	0.002	0.002
N261	11	1	Patch	2	1.23	2.05	0.01	4.73	0.04	0.09	0.260	0.002	0.433	0.008	0.019	0.33	0.91	0.01	1.67	0.04	0.01	0.06977	0.19239	0.00211	0.35307	0.00846	0.00211
N261	16	1	Patch	2	1.3	1.87	0.02	4.5	0.03	0.08	0.289	0.004	0.416	0.007	0.018	0.33	0.73	0.01	1.96	0.03	0.02	0.07333	0.16222	0.00222	0.43556	0.00667	0.00444
N261	17	1	Patch	2	1.61	2.65	0.01	5.74	0.01	0.04	0.280	0.002	0.462	0.002	0.007	0.56	1.02	0	3.34	0.01	0.02	0.09756	0.1777	0	0.58188	0.00174	0.00348
N261	18	1	Patch	2	1.33	2.18	0.01	4.89	0.03	0.06	0.272	0.002	0.446	0.006	0.012	0.38	0.95	0.01	2.2	0.03	0.01	0.07771	0.19427	0.00204	0.4499	0.00613	0.00204
N261	22	1	Patch	4	3.02	2.91	0.03	7.19	0.15	0.2	0.420	0.004	0.405	0.021	0.028	1.09	1.19	0.02	2.35	0.14	0.01	0.1516	0.16551	0.00278	0.32684	0.01947	0.00139
N261	23	1	Patch	4	2.69	5.1	0.03	9.72	0.02	0.07	0.277	0.003	0.525	0.002	0.007	1.03	2.1	0.03	5.74	0.01	0.01	0.10597	0.21605	0.00309	0.59053	0.00103	0.00103
N261	24	1	Patch	4	2.33	5.36	0.02	10.43	0.01	0.01	0.223	0.002	0.514	0.001	0.001	0.88	2.18	0.02	6.2	0.01	0.07	0.08437	0.20901	0.00192	0.59444	0.00096	0.00671
N261	25	1	Patch	4	3.51	3.61	0.01	9.6	0.02	0.07	0.366	0.001	0.376	0.002	0.007	1.51	1.62	0.01	5.2	0.02	0.01	0.15729	0.16875	0.00104	0.54167	0.00208	0.00104
N261	26	1	Patch	4	3.68	2.88	0.02	7.21	0.09	0.16	0.510	0.003	0.399	0.012	0.022	1.47	1.39	0.01	2.9	0.07	0.01	0.20388	0.19279	0.00139	0.40222	0.00971	0.00139
N261	32	1	Patch	4	3.05	3.98	0.04	7.84	0.09	0.16	0.389	0.005	0.508	0.011	0.020	1.19	1.69	0.03	3.35	0.08	0.01	0.15179	0.21556	0.00383	0.4273	0.0102	0.00128
N261	33	1	Patch	4	2.46	5.35	0.02	10.45	0.01	0.03	0.235	0.002	0.512	0.001	0.003	0.86	2.15	0.02	6.44	0.01	0.05	0.0823	0.20574	0.00191	0.61627	0.00096	0.00478
N261	34	1	Patch	4	2.6	4.7	0.01	9.8	0.01	0.01	0.265	0.001	0.480	0.001	0.001	1.15	1.87	0.01	5.71	0.01	0.01	0.11735	0.19082	0.00102	0.58265	0.00102	0.00102
N261	35	1	Patch	4	4	2.84	0.01	8.4	0.02	0.17	0.476	0.001	0.338	0.002	0.020	1.65	1.45	0.01	4.13	0.02	0.01	0.19643	0.17262	0.00119	0.49167	0.00238	0.00119
N261	128	1	Patch	1	0.77	1.36	0.01	2.76	0.01	0.01	0.279	0.004	0.493	0.004	0.004	0.19	0.43	0	1.34	0.01	0.01	0.06884	0.1558	0	0.48551	0.00362	0.00362
N261	130	1	Patch	1	1	1.15	0	2.89	0	0.02	0.346	0.000	0.398	0.000	0.007	0.32	0.36	0	1.28	0	0.01	0.11073	0.12457	0	0.44291	0	0.00346
N261	132	1	Patch	1	0.56	1.07	0	2.67	0.01	0.04	0.210	0.000	0.401	0.004	0.015	0.17	0.36	0	0.99	0.01	0.01	0.06367	0.13483	0	0.37079	0.00375	0.00375
N261	134	1	Patch	1	0.45	0.75	0	1.99	0	0.02	0.226	0.000	0.377	0.000	0.010	0.12	0.26	0	0.77	0	0.01	0.0603	0.13065	0	0.38693	0	0.00503
N261	136	1	Patch	2	1	1.67	0	4.37	0.02	0.08	0.229	0.000	0.382	0.005	0.018	0.33	0.69	0	1.46	0.02	0.01	0.07551	0.15789	0	0.3341	0.00458	0.00229
N261	137	1	Patch	2	1.47	2.4	0.01	5.34	0.01	0.02	0.275	0.002	0.449	0.002	0.004	0.58	0.93	0.01	2.96	0.01	0	0.10861	0.17416	0.00187	0.55431	0.00187	0
N261	138	1	Patch	2	1.47	3.02	0.01	5.68	0.02	0.03	0.259	0.002	0.532	0.004	0.005	0.5	1.18	0.01	3.23	0.02	0.02	0.08803	0.20775	0.00176	0.56866	0.00352	0.00352
N261	139	1	Patch	2	1.8	2.05	0.02	5.26	0.03	0.06	0.342	0.004	0.390	0.006	0.011	0.48	0.79	0.01	2.14	0.02	0.05	0.09125	0.15019	0.0019	0.40684	0.0038	0.00951
N261	144	1	Patch	2	1.99	2.04	0.01	5.1	0.02	0.04	0.390	0.002	0.400	0.004	0.008	0.84	0.76	0.01	2.32	0.01	0.02	0.16471	0.14902	0.00196	0.4549	0.00196	0.00392
N261	145	1	Patch	2	1.32	3	0.01	5.57	0.01	0.01	0.237	0.002	0.539	0.002	0.002	0.46	1.18	0.01	3.32	0.01	0.01	0.08259	0.21185	0.0018	0.59605	0.0018	0.0018
N261	146	1	Patch	2	0.91	1.64	0.01	4.72	0.02	0.11	0.193	0.002	0.347	0.004	0.023	0.21	0.62	0.01	1.56	0.02	0.01	0.04449	0.13136	0.00212	0.33051	0.00424	0.00212
N261	150	1	Patch	4	3.22	2.69	0.01	6.97	0.04	0.1	0.462	0.001	0.386	0.006	0.014	1.52	1.16	0.01	2.87	0.03	0.03	0.21808	0.16643	0.00143	0.41176	0.0043	0.0043
N261	151	1	Patch	4	2.71	4.14	0.01	9.21	0.01	0.03	0.294	0.001	0.450	0.001	0.003	1.18	1.79	0.01	5.18	0.01	0.03	0.12812	0.19435	0.00109	0.56243	0.00109	0.00326
N261	152	1	Patch	4	2.18	5.09	0.01	9.96	0.01	0.01	0.219	0.001	0.511	0.001	0.001	0.77	2.12	0.01	6.06	0.01	0.01	0.07731	0.21285	0.001	0.60843	0.001	0.001
N261	153	1	Patch	4	2.54	5.26	0.03	9.63	0.03	0.14	0.264	0.003	0.546	0.003	0.015	0.77	2.18	0.03	5.62	0.02	0.01	0.07996	0.22638	0.00312	0.58359	0.00208	0.00104
N261	154	1	Patch	4	2.46	2.87	0.03	7.44	0.07	0.19	0.331	0.004	0.386	0.009	0.026	0.86	1.17	0.02	2.67	0.06	0.02	0.11559	0.15726	0.00269	0.35887	0.00806	0.00269
N261	160	1	Patch	4	3.29	2.93	0.01	7.5	0.03	0.08	0.439	0.001	0.391	0.004	0.011	1.49	1.31	0.01	3.58	0.02							
N261	161	1	Patch	4	2.37	4.55	0.01	9.33	0.01	0.02	0.254	0.001	0.488	0.001	0.002	1.02	1.96	0.01	5.42	0.01							
N261	162	1	Patch	4	2.22	5.26	0.03	9.92	0.03	0.02	0.224	0.003	0.530	0.003	0.002	0.75	2.11	0.02	6.09	0.02							
N261	163	1	Patch	4	2.37	4.49	0.04	8.58	0.02	0.19	0.276	0.005	0.523	0.002	0.022	0.75	1.9	0.03	4.31	0.02							

- QTM1 N261 Middle channel MIMO

n261 Mid ch.(28GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	left	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm	surface 10mm2mm
												Max Ratio											Max Ratio					
												0.500	0.005	0.560	0.018	0.038							0.192	0.284	0.004	0.664	0.016	0.008
N261	128	0	1	Patch	2	1.65	2.87	0.01	5.19	0.03	0.07	0.318	0.002	0.553	0.006	0.013	0.45	1.04	0.01	2.62	0.03	0.02	0.08671	0.20039	0.00193	0.50482	0.00578	0.00385
N261	130	2	1	Patch	2	2.18	3.04	0.02	6.43	0.03	0.06	0.339	0.003	0.473	0.005	0.009	0.68	0.97	0.01	3.13	0.02	0.02	0.10575	0.15086	0.00156	0.48678	0.00311	0.00311
N261	132	4	1	Patch	2	1.82	2.87	0.01	6.16	0.03	0.09	0.295	0.002	0.466	0.005	0.015	0.53	0.97	0.01	2.85	0.03	0.04	0.08604	0.15747	0.00162	0.46266	0.00487	0.00649
N261	134	6	1	Patch	4	1.77	2.53	0.01	4.85	0.02	0.09	0.365	0.002	0.522	0.004	0.019	0.57	0.85	0.01	2.33	0.02	0.02	0.11753	0.17526	0.00206	0.48041	0.00412	0.00412
N261	136	8	1	Patch	4	4.2	5.65	0.02	10.16	0.09	0.27	0.413	0.002	0.556	0.009	0.027	1.63	2.34	0.02	4.39	0.08	0.03	0.16043	0.23031	0.00197	0.43209	0.00787	0.00295
N261	137	9	1	Patch	4	3.23	6.94	0.02	13.59	0.06	0.08	0.238	0.001	0.511	0.004	0.006	1.24	2.42	0.02	8.09	0.05	0.05	0.09124	0.17807	0.00147	0.59529	0.00368	0.00368
N261	138	10	1	Patch	4	3.83	6.36	0.03	11.95	0.04	0.04	0.321	0.003	0.532	0.003	0.003	1.49	2.64	0.02	7.5	0.04	0.04	0.12469	0.22092	0.00167	0.62762	0.00335	0.00335
N261	139	11	1	Patch	4	3.92	5.7	0.05	10.69	0.1	0.21	0.367	0.005	0.533	0.009	0.020	1.21	2.6	0.04	4.99	0.09	0.02	0.11319	0.24322	0.00374	0.46679	0.00842	0.00187
N261	144	16	1	Patch	4	3.84	5.05	0.03	9.88	0.05	0.17	0.389	0.003	0.511	0.005	0.017	1.52	2.23	0.02	4.77	0.05	0.04	0.15385	0.22571	0.00202	0.48279	0.00506	0.00405
N261	145	17	1	Patch	4	3.54	6.5	0.03	12.73	0.02	0.06	0.278	0.002	0.511	0.002	0.005	1.36	2.37	0.02	7.98	0.01	0.1	0.10683	0.18617	0.00157	0.62687	0.00079	0.00786
N261	146	18	1	Patch	4	2.28	4.74	0.03	9.27	0.08	0.25	0.246	0.003	0.511	0.009	0.027	0.67	2.06	0.02	4.48	0.07	0.04	0.07228	0.22222	0.00216	0.48328	0.00755	0.00431
N261	150	22	1	Patch	8	7.69	7.08	0.06	15.38	0.28	0.37	0.500	0.004	0.460	0.018	0.024	2.96	3.18	0.05	5.66	0.24	0.02	0.19246	0.20676	0.00325	0.36801	0.0156	0.0013
N261	151	23	1	Patch	8	5.87	11.41	0.06	21.87	0.03	0.16	0.268	0.003	0.522	0.001	0.007	2.48	4.58	0.05	13.77	0.03	0.05	0.1134	0.20942	0.00229	0.62963	0.00137	0.00229
N261	152	24	1	Patch	8	4.91	13.82	0.06	24.7	0.01	0.03	0.199	0.002	0.560	0.000	0.001	1.88	5.24	0.05	16.39	0.01	0.17	0.07611	0.21215	0.00202	0.66356	0.0004	0.00688
N261	153	25	1	Patch	8	6.8	9.87	0.06	21.21	0.08	0.4	0.321	0.003	0.465	0.004	0.019	2.79	4.19	0.05	13.09	0.07	0.06	0.13154	0.19755	0.00236	0.61716	0.0033	0.00283
N261	154	26	1	Patch	8	6.67	8.51	0.08	16.21	0.14	0.56	0.411	0.005	0.525	0.009	0.035	2.53	4.18	0.06	5.78	0.12	0.04	0.15608	0.25787	0.0037	0.35657	0.0074	0.00247
N261	160	32	1	Patch	8	7.38	7.78	0.06	15.97	0.2	0.26	0.462	0.004	0.487	0.013	0.016	2.81	3.68	0.05	6.87	0.17	0.03	0.17595	0.23043	0.00313	0.43018	0.01064	0.00188
N261	161	33	1	Patch	8	5.33	12.96	0.05	23.82	0.02	0.08	0.224	0.002	0.544	0.001	0.003	2.2	5.04	0.04	15.56	0.02	0.11	0.09236	0.21159	0.00168	0.65323	0.00084	0.00462
N261	162	34	1	Patch	8	5.64	12.87	0.05	23.81	0.06	0.05	0.237	0.002	0.541	0.003	0.002	2.31	4.83	0.04	15.38	0.05	1.11	0.09702	0.20286	0.00168	0.64595	0.0021	0.04662
N261	163	35	1	Patch	8	7.08	9.62	0.07	17.67	0.06	0.67	0.401	0.004	0.544	0.003	0.038	2.8	5.01	0.06	8.63	0.05	2.11	0.15846	0.28353	0.0034	0.4884	0.00283	0.11941

- QTM0 N261 High channel SISO

												Max Ratio											Max Ratio					
												0.032	0.128	0.061	0.161	0.013							0.013	0.013	0.046	0.089	0.111	0.000
n261 H ch.(28.35GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
N261		1	0	Patch	1	0.05	3.76	0.07	0.31	0.25	0.02	0.013	0.082	0.019	0.066	0.005	0.02	1.41	0.05	0.19	0.17	0	0.00532	0.00532	0.0133	0.05053	0.04521	0
N261		3	0	Patch	1	0.08	4.52	0.05	0.2	0.38	0.03	0.018	0.044	0.011	0.084	0.007	0.04	1.79	0.04	0.13	0.27	0	0.00885	0.00885	0.00885	0.02876	0.05973	0
N261		5	0	Patch	1	0.06	4.71	0.11	0.09	0.3	0.03	0.013	0.019	0.023	0.064	0.006	0.03	1.77	0.08	0.06	0.22	0	0.00637	0.00637	0.01699	0.01274	0.04671	0
N261		7	0	Patch	1	0.05	3.65	0.11	0.13	0.19	0.02	0.014	0.036	0.030	0.052	0.005	0.02	1.37	0.09	0.08	0.13	0	0.00548	0.00548	0.02466	0.02192	0.03562	0
N261		12	0	Patch	2	0.23	8.71	0.15	0.71	1.14	0.04	0.026	0.082	0.017	0.131	0.005	0.1	3.33	0.11	0.38	0.81	0	0.01148	0.01148	0.01263	0.04363	0.093	0
N261		13	0	Patch	2	0.19	9.32	0.11	0.29	0.84	0.06	0.020	0.031	0.012	0.090	0.006	0.07	4	0.07	0.21	0.61	0	0.00751	0.00751	0.00751	0.02253	0.06545	0
N261		14	0	Patch	2	0.13	8.6	0.06	0.09	0.85	0.07	0.015	0.010	0.007	0.099	0.008	0.05	4.19	0.04	0.06	0.61	0	0.00581	0.00581	0.00465	0.00698	0.07093	0
N261		15	0	Patch	2	0.1	7.52	0.18	0.49	0.54	0.03	0.013	0.065	0.024	0.072	0.004	0.05	2.28	0.13	0.32	0.39	0	0.00665	0.00665	0.01729	0.04255	0.05186	0
N261		19	0	Patch	2	0.22	8.93	0.13	0.61	1.11	0.05	0.025	0.068	0.015	0.124	0.006	0.09	3.76	0.09	0.31	0.78	0	0.01008	0.01008	0.01008	0.03471	0.08735	0
N261		20	0	Patch	2	0.17	8.41	0.18	0.11	0.84	0.04	0.020	0.013	0.021	0.100	0.005	0.06	4.19	0.13	0.08	0.59	0	0.00713	0.00713	0.01546	0.00951	0.07015	0
N261		21	0	Patch	2	0.08	7.11	0.12	0.79	0.29	0.07	0.011	0.111	0.017	0.041	0.010	0.03	2.87	0.09	0.5	0.21	0	0.00422	0.00422	0.01266	0.07032	0.02954	0
N261		27	0	Patch	4	0.27	10.45	0.55	1.34	1.68	0.04	0.026	0.128	0.053	0.161	0.004	0.13	3.79	0.39	0.67	1.16	0	0.01244	0.01244	0.03732	0.06411	0.111	0
N261		28	0	Patch	4	0.45	16.34	0.51	0.64	2.21	0.08	0.028	0.039	0.031	0.135	0.005	0.16	7.15	0.38	0.37	1.66	0	0.00979	0.00979	0.02326	0.02264	0.10159	0
N261		29	0	Patch	4	0.45	16.79	0.19	0.33	1.89	0.13	0.027	0.020	0.011	0.113	0.008	0.17	8.41	0.14	0.19	1.51	0	0.01013	0.01013	0.00834	0.01132	0.08993	0
N261		30	0	Patch	4	0.29	15.61	0.18	0.9	1.58	0.21	0.019	0.058	0.012	0.101	0.013	0.1	7.77	0.13	0.61	1.24	0	0.00641	0.00641	0.00833	0.03908	0.07944	0
N261		31	0	Patch	4	0.21	12.24	0.47	1.06	1.07	0.06	0.017	0.087	0.038	0.087	0.005	0.08	4.78	0.35	0.67	0.83	0	0.00654	0.00654	0.02859	0.05474	0.06781	0
N261		36	0	Patch	4	0.37	13.89	0.52	1.04	1.96	0.06	0.027	0.075	0.037	0.141	0.004	0.14	5.51	0.37	0.5	1.49	0	0.01008	0.01008	0.02664	0.036	0.10727	0
N261		37	0	Patch	4	0.52	16.8	0.48	0.53	2.23	0.11	0.031	0.032	0.029	0.133	0.007	0.19	7.98	0.35	0.32	1.71	0	0.01131	0.01131	0.02083	0.01905	0.10179	0
N261		38	0	Patch	4	0.39	16.48	0.11	0.32	1.79	0.21	0.024	0.019	0.007	0.109	0.013	0.16	8.21	0.08	0.21	1.4	0	0.00971	0.00971	0.00485	0.01274	0.08495	0
N261		39	0	Patch	4	0.23	15.37	0.29	1.05	1.3	0.11	0.015	0.068	0.019	0.085	0.007	0.1	6.87	0.22	0.66	1.01	0	0.00651	0.00651	0.01431	0.04294	0.06571	0
N261		129	0	Patch	1	0.05	4.37	0.08	0.39	0.22	0.02	0.011	0.089	0.018	0.050	0.005	0.02	1.53	0.06	0.23	0.15	0	0.00458	0.00458	0.01373	0.05263	0.03432	0
N261		131	0	Patch	1	0.05	4.5	0.06	0.21	0.29	0.02	0.011	0.047	0.013	0.064	0.004	0.02	1.73	0.04	0.13	0.22	0	0.00444	0.00444	0.00889	0.02889	0.04889	0
N261		133	0	Patch	1	0.07	4.05	0.09	0.12	0.28	0.02	0.017	0.030	0.022	0.069	0.005	0.03	1.6	0.07	0.07	0.2	0	0.00741	0.00741	0.01728	0.01728	0.04938	0
N261		135	0	Patch	1	0.03	2.92	0.09	0.1	0.15	0.02	0.010	0.034	0.031	0.051	0.007	0.02	1.09	0.06	0.07	0.11	0	0.00685	0.00685	0.02055	0.02397	0.03767	0
N261		140	0	Patch	2	0.11	7.93	0.25	0.72	0.46	0.04	0.014	0.091	0.032	0.058	0.005	0.05	2.66	0.18	0.42	0.32	0	0.00631	0.00631	0.0227	0.05296	0.04035	0
N261		141	0	Patch	2	0.15	7.77	0.15	0.3	0.7	0.03	0.019	0.039	0.019	0.090	0.004	0.06	3.12	0.1	0.2	0.52	0	0.00772	0.00772	0.01287	0.02574	0.06692	0
N261		142	0	Patch	2	0.18	9.15	0.17	0.21	0.7	0.07	0.020	0.023	0.019	0.077	0.008	0.07	4.16	0.12	0.14	0.49	0	0.00765	0.00765	0.01311	0.0153	0.05355	0
N261		143	0	Patch	2	0.13	7.63	0.21	0.98	0.53	0.02	0.017	0.128	0.028	0.069	0.003	0.06	2.21	0.15	0.62	0.4	0	0.00786	0.00786	0.01966	0.08126	0.05242	0
N261		147	0	Patch	2	0.12	7.05	0.16	0.34	0.59	0.03	0.017	0.048	0.023	0.084	0.004	0.06	2.44	0.1	0.22	0.44	0	0.00851	0.00851	0.01418	0.03121	0.06241	0
N261		148	0	Patch	2	0.14	9.4	0.04	0.28	0.88	0.06	0.015	0.030	0.004	0.094	0.006	0.05	4.46	0.03	0.14	0.63	0	0.00532	0.00532	0.00319	0.01489	0.06702	0
N261		149	0	Patch	2	0.17	8.05	0.15	0.95	0.65	0.02	0.021	0.118	0.019	0.081	0.002	0.07	2.97	0.11	0.61	0.48	0	0.0087	0.0087	0.01366	0.07578	0.05963	0
N261		155	0	Patch	4	0.19	8.65	0.53	1	0.59	0.06	0.022	0.116	0.061	0.068	0.007	0.11	2.57	0.4	0.63	0.35	0	0.01272	0.01272	0.04624	0.07283	0.04046	0
N261		156	0	Patch	4	0.23	13.8	0.43	1.06	1.37	0.05	0.017	0.077	0.031	0.099	0.004	0.11	5.93	0.31	0.57	1	0	0.00797	0.00797	0.02246	0.0413	0.07246	0
N261		157	0	Patch	4	0.39	15.74	0.14	0.41	1.71	0.17	0.025	0.026	0.009	0.109	0.011	0.15	7.46	0.11	0.23	1.34	0	0.00953	0.00953	0.00699	0.01461	0.08513	0
N261		158	0	Patch	4	0.48	15.54	0.12	0.89	1.93	0.13	0.031	0.057	0.008	0.124	0.008	0.19	7.3	0.07	0.59	1.51	0	0.01223	0.01223	0.0045	0.03797	0.09717	0
N261		159	0	Patch	4	0.22	11.2	0.62	1.42	1.28	0.06	0.020	0.127	0.055	0.114	0.005	0.12	4.1	0.43	1	0.99	0	0.01071	0.01071	0.03839	0.08929	0.08839	0
N261		164	0	Patch	4	0.19	9.9	0.47	1.11	0.91	0.04	0.019	0.112	0.047	0.092	0.004	0.11	3.84	0.35	0.74	0.61	0	0.01111	0.01111	0.03535	0.07475	0.06162	0
N261		165	0	Patch	4	0.33	16.11	0.41	0.68	1.81	0.08	0.020	0.042	0.025	0.112	0.005	0.16	7.31	0.29	0.38	1.41	0	0.00993	0.00993	0.018	0.02359	0.08752	0
N261		166	0	Patch	4	0.49	15.11	0.11	0.52	1.72	0.17	0.032	0.034	0.007	0.114	0.011	0.17	7.19	0.08	0.35	1.32	0						
N261		167	0	Patch	4	0.31	13.52	0.42	1.31	1.78	0.1	0.023	0.097	0.031	0.132	0.007	0.1	5.45	0.3	0.85	1.41	0						

- QTM0 N261 High channel MIMO

n261 H ch.(28.35GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
												Max Ratio											Max Ratio					
												0.032	0.182	0.070	0.143	0.012							0.017	0.017	0.050	0.120	0.110	0.000
N261	129	1	0	Patch	2	0.12	8.73	0.13	1.14	0.56	0.05	0.014	0.131	0.015	0.064	0.006	0.05	3.24	0.1	0.71	0.39	0	0.00573	0.00573	0.01145	0.08133	0.04467	0
N261	131	3	0	Patch	2	0.18	9.97	0.15	0.59	0.88	0.06	0.018	0.059	0.015	0.088	0.006	0.08	3.99	0.11	0.4	0.62	0	0.00802	0.00802	0.01103	0.04012	0.06219	0
N261	133	5	0	Patch	2	0.17	9.67	0.36	0.37	0.84	0.08	0.018	0.038	0.037	0.087	0.008	0.07	3.83	0.26	0.24	0.6	0	0.00724	0.00724	0.02689	0.02482	0.06205	0
N261	135	7	0	Patch	4	0.12	6.98	0.36	0.24	0.41	0.04	0.017	0.034	0.052	0.059	0.006	0.06	2.5	0.26	0.15	0.28	0	0.0086	0.0086	0.03725	0.02149	0.04011	0
N261	140	12	0	Patch	4	0.42	19.81	0.44	1.93	2.12	0.09	0.021	0.097	0.022	0.107	0.005	0.19	6.81	0.32	1.14	1.56	0	0.00959	0.00959	0.01615	0.05755	0.07875	0
N261	141	13	0	Patch	4	0.38	17.57	0.35	0.99	1.67	0.12	0.022	0.056	0.020	0.095	0.007	0.17	7.46	0.24	0.73	1.22	0	0.00968	0.00968	0.01366	0.04155	0.06944	0
N261	142	14	0	Patch	4	0.4	18.54	0.31	0.44	1.85	0.15	0.022	0.024	0.017	0.100	0.008	0.16	8.46	0.23	0.28	1.33	0	0.00863	0.00863	0.01241	0.0151	0.07174	0
N261	143	15	0	Patch	4	0.31	16.35	0.71	1.8	1.29	0.09	0.019	0.110	0.043	0.079	0.006	0.14	5.41	0.51	1.17	0.94	0	0.00856	0.00856	0.03119	0.07156	0.05749	0
N261	147	19	0	Patch	4	0.49	18.35	0.38	1.12	2.31	0.07	0.027	0.061	0.021	0.126	0.004	0.2	6.91	0.27	0.6	1.64	0	0.0109	0.0109	0.01471	0.0327	0.08937	0
N261	148	20	0	Patch	4	0.39	17.7	0.31	0.59	1.9	0.12	0.022	0.033	0.018	0.107	0.007	0.17	8.23	0.23	0.36	1.41	0	0.0096	0.0096	0.01299	0.02034	0.07966	0
N261	149	21	0	Patch	4	0.39	16.28	0.35	2.96	1.26	0.14	0.024	0.182	0.021	0.077	0.009	0.16	6.01	0.26	1.95	0.9	0	0.00983	0.00983	0.01597	0.11978	0.05528	0
N261	155	27	0	Patch	8	0.71	23.4	1.63	3	3.13	0.15	0.030	0.128	0.070	0.134	0.006	0.4	8.18	1.16	1.68	2.19	0	0.01709	0.01709	0.04957	0.07179	0.09359	0
N261	156	28	0	Patch	8	0.71	33.37	1.49	2.54	3.88	0.13	0.021	0.076	0.045	0.116	0.004	0.28	13.95	1.12	1.36	2.96	0	0.00839	0.00839	0.03356	0.04076	0.0887	0
N261	157	29	0	Patch	8	1	36.85	0.63	1.07	4.48	0.38	0.027	0.029	0.017	0.122	0.010	0.42	16.77	0.46	0.6	3.53	0	0.0114	0.0114	0.01248	0.01628	0.09579	0
N261	158	30	0	Patch	8	0.77	35.84	0.39	2.82	3.73	0.43	0.021	0.079	0.011	0.104	0.012	0.36	15.79	0.27	1.87	2.89	0	0.01004	0.01004	0.00753	0.05218	0.08064	0
N261	159	31	0	Patch	8	0.67	25.59	1.4	3.08	3.26	0.17	0.026	0.120	0.055	0.127	0.007	0.25	10.53	1	2.12	2.51	0	0.00977	0.00977	0.03908	0.08284	0.09809	0
N261	164	36	0	Patch	8	0.84	26.22	1.17	2.64	3.74	0.16	0.032	0.101	0.045	0.143	0.006	0.36	9.65	0.85	1.43	2.88	0	0.01373	0.01373	0.03242	0.05454	0.10984	0
N261	165	37	0	Patch	8	1.02	38.1	1.39	1.37	4.69	0.24	0.027	0.036	0.036	0.123	0.006	0.45	16.49	1.03	0.7	3.51	0	0.01181	0.01181	0.02703	0.01837	0.09213	0
N261	166	38	0	Patch	8	0.92	35.69	0.25	1.39	4.21	0.44	0.026	0.039	0.007	0.118	0.012	0.46	16	0.2	0.93	3.24	0	0.01289	0.01289	0.0056	0.02606	0.09078	0
N261	167	39	0	Patch	8	0.69	31.2	0.9	3.96	3.66	0.23	0.022	0.127	0.029	0.117	0.007	0.32	13.27	0.65	2.69	2.85	0	0.01026	0.01026	0.02083	0.08622	0.09135	0

- QTM1 N261 High channel SISO

n261 H ch.(28.35GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						Max Ratio						0.488	0.004	0.557	0.022	0.029							0.215	0.215	0.004	0.610	0.019	0.000
						relative phase worst PD for MIMO						Front /	left	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
N261		0	1	Patch	1	0.57	0.96	0	2.28	0.01	0.03	0.250	0.000	0.421	0.004	0.013	0.14	0.32	0	0.88	0.01	0	0.0614	0.0614	0	0.38596	0.00439	0
N261		2	1	Patch	1	0.7	1.16	0	2.84	0.01	0.03	0.246	0.000	0.408	0.004	0.011	0.2	0.35	0	1.09	0.01	0	0.07042	0.07042	0	0.3838	0.00352	0
N261		4	1	Patch	1	0.91	1.1	0.01	2.84	0.01	0.02	0.320	0.004	0.387	0.004	0.007	0.27	0.37	0	1.25	0.01	0	0.09507	0.09507	0	0.44014	0.00352	0
N261		6	1	Patch	1	0.86	0.97	0	2.22	0.01	0.02	0.387	0.000	0.437	0.005	0.009	0.25	0.32	0	0.91	0.01	0	0.11261	0.11261	0	0.40991	0.0045	0
N261		8	1	Patch	2	1.79	2.01	0.01	4.61	0.04	0.08	0.388	0.002	0.436	0.009	0.017	0.64	0.81	0.01	1.62	0.03	0	0.13883	0.13883	0.00217	0.35141	0.00651	0
N261		9	1	Patch	2	1.53	2.67	0.01	5.44	0.03	0.04	0.281	0.002	0.491	0.006	0.007	0.44	1.02	0.01	3.02	0.02	0	0.08088	0.08088	0.00184	0.55515	0.00368	0
N261		10	1	Patch	2	1.36	2.14	0	4.81	0.01	0.01	0.283	0.000	0.445	0.002	0.002	0.46	0.82	0	2.67	0.01	0	0.09563	0.09563	0	0.55509	0.00208	0
N261		11	1	Patch	2	1.23	2.15	0.01	4.98	0.05	0.1	0.247	0.002	0.432	0.010	0.020	0.36	0.9	0.01	1.62	0.04	0	0.07229	0.07229	0.00201	0.3253	0.00803	0
N261		16	1	Patch	2	1.33	1.92	0.01	4.85	0.03	0.09	0.274	0.002	0.396	0.006	0.019	0.33	0.78	0.01	1.98	0.03	0	0.06804	0.06804	0.00206	0.40825	0.00619	0
N261		17	1	Patch	2	1.54	2.48	0.01	5.42	0.01	0.04	0.284	0.002	0.458	0.002	0.007	0.54	0.96	0	3.06	0.01	0	0.09963	0.09963	0	0.56458	0.00185	0
N261		18	1	Patch	2	1.32	2.22	0.01	4.93	0.03	0.07	0.268	0.002	0.450	0.006	0.014	0.37	0.93	0.01	2.1	0.03	0	0.07505	0.07505	0.00203	0.42596	0.00609	0
N261		22	1	Patch	4	3.05	2.87	0.03	7.35	0.16	0.21	0.415	0.004	0.390	0.022	0.029	1.1	1.25	0.02	2.3	0.14	0	0.14966	0.14966	0.00272	0.31293	0.01905	0
N261		23	1	Patch	4	2.82	4.63	0.03	9.4	0.02	0.07	0.300	0.003	0.493	0.002	0.007	1.05	1.93	0.02	5.5	0.02	0	0.1117	0.1117	0.00213	0.58511	0.00213	0
N261		24	1	Patch	4	2.43	5.02	0.02	10.09	0.01	0.01	0.241	0.002	0.498	0.001	0.001	0.89	2.06	0.01	5.92	0.01	0	0.08821	0.08821	0.00099	0.58672	0.00099	0
N261		25	1	Patch	4	3.2	3.51	0.02	8.91	0.02	0.09	0.359	0.002	0.394	0.002	0.010	1.37	1.55	0.01	4.73	0.02	0	0.15376	0.15376	0.00112	0.53086	0.00224	0
N261		26	1	Patch	4	3.54	2.98	0.02	7.26	0.08	0.14	0.488	0.003	0.410	0.011	0.019	1.44	1.43	0.01	2.71	0.06	0	0.19835	0.19835	0.00138	0.37328	0.00826	0
N261		32	1	Patch	4	3.17	3.74	0.03	7.83	0.1	0.17	0.405	0.004	0.478	0.013	0.022	1.2	1.69	0.03	3.19	0.09	0	0.15326	0.15326	0.00383	0.40741	0.01149	0
N261		33	1	Patch	4	2.49	4.9	0.02	10.08	0.01	0.03	0.247	0.002	0.486	0.001	0.003	0.85	1.96	0.02	6.15	0.01	0	0.08433	0.08433	0.00198	0.61012	0.00099	0
N261		34	1	Patch	4	2.56	4.51	0.01	9.44	0.01	0.01	0.271	0.001	0.478	0.001	0.001	1.13	1.83	0.01	5.42	0.01	0	0.1197	0.1197	0.00106	0.57415	0.00106	0
N261		35	1	Patch	4	3.72	2.84	0.01	7.89	0.02	0.15	0.471	0.001	0.360	0.003	0.019	1.56	1.41	0.01	3.7	0.02	0	0.19772	0.19772	0.00127	0.46895	0.00253	0
N261		128	1	Patch	1	0.8	1.34	0.01	2.73	0.01	0.01	0.293	0.004	0.491	0.004	0.004	0.22	0.44	0	1.3	0.01	0	0.08059	0.08059	0	0.47619	0.00366	0
N261		130	1	Patch	1	0.93	1.1	0	2.79	0.01	0.02	0.333	0.000	0.394	0.004	0.007	0.31	0.34	0	1.19	0.01	0	0.11111	0.11111	0	0.42652	0.00358	0
N261		132	1	Patch	1	0.53	1.06	0	2.63	0.01	0.04	0.202	0.000	0.403	0.004	0.015	0.15	0.37	0	0.93	0.01	0	0.05703	0.05703	0	0.35361	0.0038	0
N261		134	1	Patch	1	0.43	0.74	0	1.93	0	0.02	0.223	0.000	0.383	0.000	0.010	0.12	0.27	0	0.71	0	0	0.06218	0.06218	0	0.36788	0	0
N261		136	1	Patch	2	1.02	1.67	0.01	4.41	0.02	0.08	0.231	0.002	0.379	0.005	0.018	0.33	0.69	0.01	1.43	0.02	0	0.07483	0.07483	0.00227	0.32426	0.00454	0
N261		137	1	Patch	2	1.35	2.27	0.01	5.08	0.01	0.02	0.266	0.002	0.447	0.002	0.004	0.53	0.9	0	2.73	0.01	0	0.10433	0.10433	0	0.5374	0.00197	0
N261		138	1	Patch	2	1.47	3.03	0.02	5.53	0.02	0.03	0.266	0.004	0.548	0.004	0.005	0.52	1.19	0.01	3.07	0.02	0	0.09403	0.09403	0.00181	0.55515	0.00362	0
N261		139	1	Patch	2	1.67	2.05	0.01	5.03	0.03	0.06	0.332	0.002	0.408	0.006	0.012	0.48	0.79	0.01	1.92	0.03	0	0.09543	0.09543	0.00199	0.38171	0.00596	0
N261		144	1	Patch	2	1.89	2.06	0.01	5.09	0.01	0.04	0.371	0.002	0.405	0.002	0.008	0.83	0.76	0.01	2.32	0.01	0	0.16306	0.16306	0.00196	0.4558	0.00196	0
N261		145	1	Patch	2	1.39	2.94	0.01	5.48	0.01	0.01	0.254	0.002	0.536	0.002	0.002	0.51	1.14	0.01	3.2	0.01	0	0.09307	0.09307	0.00182	0.58394	0.00182	0
N261		146	1	Patch	2	0.83	1.67	0.01	4.85	0.02	0.11	0.171	0.002	0.344	0.004	0.023	0.18	0.64	0.01	1.49	0.02	0	0.03711	0.03711	0.00206	0.30722	0.00412	0
N261		150	1	Patch	4	3.1	2.57	0.01	7.12	0.05	0.1	0.435	0.001	0.361	0.007	0.014	1.53	1.13	0.01	2.85	0.04	0	0.21489	0.21489	0.0014	0.40028	0.00562	0
N261		151	1	Patch	4	2.37	4.06	0.01	8.74	0.01	0.03	0.271	0.001	0.465	0.001	0.003	1.04	1.75	0.01	4.89	0.01	0	0.11899	0.11899	0.00114	0.5595	0.00114	0
N261		152	1	Patch	4	2.21	4.8	0.02	9.41	0	0.01	0.235	0.002	0.510	0.000	0.001	0.78	1.99	0.01	5.59	0	0	0.08289	0.08289	0.00106	0.59405	0	0
N261		153	1	Patch	4	2.41	5.03	0.03	9.06	0.04	0.13	0.266	0.003	0.555	0.004	0.014	0.74	2.11	0.03	5.25	0.03	0	0.08168	0.08168	0.00331	0.57947	0.00331	0
N261		154	1	Patch	4	2.16	3.11	0.02	7.16	0.07	0.21	0.302	0.003	0.434	0.010	0.029	0.76	1.36	0.02	2.48	0.06	0	0.10615	0.10615	0.00279	0.34637	0.00838	0
N261		160	1		4	3.04	2.76	0.01	7.27	0.03	0.07	0.418	0.001	0.380	0.004	0.010	1.44	1.25	0.01	3.41	0.03	0	0.19807	0.19807	0.00138	0.46905	0.00413	0
N261		161	1		4	2.26	4.5	0.01	9.09	0	0.02	0.249	0.001	0.495	0.000	0.002	0.96	1.91	0.01	5.15	0	0	0.10561	0.10561	0.0011	0.56656	0	0
N261		162	1		4	2.16	5.03	0.02	9.53	0.02	0.03	0.227	0.002	0.528	0.002	0.003	0.74	1.99	0.02	5.71	0.02	0	0.07765	0.07765	0.0021	0.59916	0.0021	0
N261		163	1		4	2.15	4.42	0.03	7.94	0.03	0.18	0.271	0.004	0.557	0.004	0.023	0.67	1.95	0.02	3.99	0.03	0						

- QTM1 N261 High channel MIMO

n261 H ch.(28.35GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO						Front /	left	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
												Max Ratio											Max Ratio					
												0.480	0.005	0.577	0.019	0.037							0.187	0.187	0.004	0.656	0.017	0.000
N261	128	0	1	Patch	2	1.7	2.99	0.01	5.3	0.04	0.06	0.321	0.002	0.564	0.008	0.011	0.48	1.11	0.01	2.65	0.03	0	0.09057	0.09057	0.00189	0.5	0.00566	0
N261	130	2	1	Patch	2	2.06	2.95	0.02	6.18	0.03	0.07	0.333	0.003	0.477	0.005	0.011	0.64	0.93	0.01	2.76	0.03	0	0.10356	0.10356	0.00162	0.4466	0.00485	0
N261	132	4	1	Patch	2	1.8	2.62	0.01	5.96	0.03	0.1	0.302	0.002	0.440	0.005	0.017	0.51	0.86	0.01	2.54	0.02	0	0.08557	0.08557	0.00168	0.42617	0.00336	0
N261	134	6	1	Patch	4	1.73	2.44	0.01	4.65	0.02	0.08	0.372	0.002	0.525	0.004	0.017	0.55	0.86	0.01	2.1	0.02	0	0.11828	0.11828	0.00215	0.45161	0.0043	0
N261	136	8	1	Patch	4	4.16	5.43	0.03	10.04	0.08	0.28	0.414	0.003	0.541	0.008	0.028	1.63	2.3	0.02	4.1	0.07	0	0.16235	0.16235	0.00199	0.40837	0.00697	0
N261	137	9	1	Patch	4	3.06	6.07	0.02	12.27	0.07	0.09	0.249	0.002	0.495	0.006	0.007	1.15	2.16	0.02	7.16	0.06	0	0.09372	0.09372	0.00163	0.58354	0.00489	0
N261	138	10	1	Patch	4	3.74	6.43	0.03	11.15	0.05	0.04	0.335	0.003	0.577	0.004	0.004	1.47	2.74	0.03	6.92	0.04	0	0.13184	0.13184	0.00269	0.62063	0.00359	0
N261	139	11	1	Patch	4	3.85	6.05	0.05	10.74	0.13	0.22	0.358	0.005	0.563	0.012	0.020	1.18	2.77	0.04	4.56	0.11	0	0.10987	0.10987	0.00372	0.42458	0.01024	0
N261	144	16	1	Patch	4	3.7	5.25	0.03	10.46	0.06	0.17	0.354	0.003	0.502	0.006	0.016	1.45	2.34	0.02	4.77	0.06	0	0.13862	0.13862	0.00191	0.45602	0.00574	0
N261	145	17	1	Patch	4	3.35	6.2	0.02	12.08	0.02	0.06	0.277	0.002	0.513	0.002	0.005	1.34	2.25	0.02	7.43	0.02	0	0.11093	0.11093	0.00166	0.61507	0.00166	0
N261	146	18	1	Patch	4	2.21	4.53	0.03	8.74	0.07	0.25	0.253	0.003	0.518	0.008	0.029	0.58	2.02	0.02	4.2	0.07	0	0.06636	0.06636	0.00229	0.48055	0.00801	0
N261	150	22	1	Patch	8	7.42	6.77	0.06	15.45	0.3	0.39	0.480	0.004	0.438	0.019	0.025	2.89	3.18	0.05	5.48	0.26	0	0.18706	0.18706	0.00324	0.35469	0.01683	0
N261	151	23	1	Patch	8	5.29	10.57	0.06	20.38	0.04	0.16	0.260	0.003	0.519	0.002	0.008	2.21	4.38	0.05	12.74	0.04	0	0.10844	0.10844	0.00245	0.62512	0.00196	0
N261	152	24	1	Patch	8	4.87	12.48	0.06	22.83	0.01	0.03	0.213	0.003	0.547	0.000	0.001	1.8	4.8	0.05	14.97	0.01	0	0.07884	0.07884	0.00219	0.65572	0.00044	0
N261	153	25	1	Patch	8	6.63	9.7	0.05	19.67	0.1	0.42	0.337	0.003	0.493	0.005	0.021	2.58	4.12	0.04	12.1	0.09	0	0.13116	0.13116	0.00203	0.61515	0.00458	0
N261	154	26	1	Patch	8	6.51	8.42	0.07	15.61	0.13	0.51	0.417	0.004	0.539	0.008	0.033	2.51	4.36	0.06	5.41	0.11	0	0.16079	0.16079	0.00384	0.34657	0.00705	0
N261	160	32	1	Patch	8	7.24	7.14	0.06	15.49	0.23	0.24	0.467	0.004	0.461	0.015	0.015	2.77	3.56	0.05	6.76	0.2	0	0.17883	0.17883	0.00323	0.43641	0.01291	0
N261	161	33	1	Patch	8	5.06	11.96	0.06	22.32	0.02	0.06	0.227	0.003	0.536	0.001	0.003	2.03	4.7	0.05	14.34	0.02	0	0.09095	0.09095	0.00224	0.64247	0.0009	0
N261	162	34	1	Patch	8	5.41	12.04	0.05	22.29	0.06	0.06	0.243	0.002	0.540	0.003	0.003	2.18	4.56	0.04	14.23	0.05	0	0.0978	0.0978	0.00179	0.6384	0.00224	0
N261	163	35	1	Patch	8	6.87	9.17	0.07	16.86	0.06	0.62	0.407	0.004	0.544	0.004	0.037	2.6	4.9	0.05	7.88	0.05	0	0.15421	0.15421	0.00297	0.46738	0.00297	0

- QTM0 N260 LOW channel SISO

													Max Ratio											Max Ratio					
													0.028	0.183	0.099	0.131	0.008							0.011	0.564	0.072	0.125	0.104	0.000
n260 low ch.(37GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
							relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type		Num. of antenne	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
N260		1	0	Patch		1	0.03	3.28	0.07	0.32	0.24	0	0.009	0.098	0.021	0.073	0.000	0.01	1.28	0.06	0.19	0.14	0	0.00305	0.39024	0.01829	0.05793	0.04268	0
N260		3	0	Patch		1	0.06	4.33	0.15	0.26	0.27	0.01	0.014	0.060	0.035	0.062	0.002	0.02	1.55	0.11	0.16	0.18	0	0.00462	0.35797	0.0254	0.03695	0.04157	0
N260		5	0	Patch		1	0.06	4.35	0.13	0.28	0.23	0.01	0.014	0.064	0.030	0.053	0.002	0.03	1.69	0.1	0.18	0.15	0	0.0069	0.38851	0.02299	0.04138	0.03448	0
N260		7	0	Patch		1	0.03	3.17	0.07	0.12	0.15	0.01	0.009	0.038	0.022	0.047	0.003	0.01	1.4	0.05	0.08	0.1	0	0.00315	0.44164	0.01577	0.02524	0.03155	0
N260		12	0	Patch		2	0.12	8.8	0.31	0.36	0.56	0.01	0.014	0.041	0.035	0.064	0.001	0.05	2.97	0.24	0.22	0.38	0	0.00568	0.3375	0.02727	0.025	0.04318	0
N260		13	0	Patch		2	0.12	6.37	0.38	0.11	0.5	0.03	0.019	0.017	0.060	0.078	0.005	0.04	3.09	0.28	0.07	0.36	0	0.00628	0.48509	0.04396	0.01099	0.05651	0
N260		14	0	Patch		2	0.14	8.71	0.16	0.62	0.54	0.02	0.016	0.071	0.018	0.062	0.002	0.06	3.15	0.13	0.38	0.38	0	0.00689	0.36165	0.01493	0.04363	0.04363	0
N260		15	0	Patch		2	0.14	8.07	0.15	0.57	0.65	0.02	0.017	0.071	0.019	0.081	0.002	0.06	2.74	0.12	0.37	0.42	0	0.00743	0.33953	0.01487	0.04585	0.05204	0
N260		19	0	Patch		2	0.1	7.8	0.28	0.27	0.55	0.01	0.013	0.035	0.036	0.071	0.001	0.05	2.4	0.21	0.13	0.39	0	0.00641	0.30769	0.02692	0.01667	0.05	0
N260		20	0	Patch		2	0.08	5.93	0.25	0.79	0.45	0.01	0.013	0.133	0.042	0.076	0.002	0.02	2.72	0.18	0.5	0.32	0	0.00337	0.45868	0.03035	0.08432	0.05396	0
N260		21	0	Patch		2	0.1	7.59	0.1	0.79	0.55	0.01	0.013	0.104	0.013	0.072	0.001	0.04	2.6	0.08	0.45	0.35	0	0.00527	0.34256	0.01054	0.05929	0.04611	0
N260		27	0	Patch		4	0.27	13.91	0.5	0.89	1.41	0.02	0.019	0.064	0.036	0.101	0.001	0.11	5.56	0.36	0.46	0.98	0	0.00791	0.39971	0.02588	0.03307	0.07045	0
N260		28	0	Patch		4	0.23	11.05	0.86	0.32	1.19	0.03	0.021	0.029	0.078	0.108	0.003	0.09	5.29	0.66	0.18	0.93	0	0.00814	0.47873	0.05973	0.01629	0.08416	0
N260		29	0	Patch		4	0.16	10.07	0.62	0.88	0.93	0.06	0.016	0.087	0.062	0.092	0.006	0.06	5.56	0.48	0.58	0.69	0	0.00596	0.55214	0.04767	0.0576	0.06852	0
N260		30	0	Patch		4	0.25	11.75	0.28	1.78	1.05	0.06	0.021	0.151	0.024	0.089	0.005	0.09	5.34	0.23	1.23	0.78	0	0.00766	0.45447	0.01957	0.10468	0.06638	0
N260		31	0	Patch		4	0.25	14.01	0.46	0.89	1.23	0.01	0.018	0.064	0.033	0.088	0.001	0.1	5.22	0.31	0.45	0.8	0	0.00714	0.37259	0.02213	0.03212	0.0571	0
N260		36	0	Patch		4	0.26	12.89	0.57	0.57	1.34	0.02	0.020	0.044	0.044	0.104	0.002	0.11	5.67	0.45	0.34	1.01	0	0.00853	0.43988	0.03491	0.02638	0.07836	0
N260		37	0	Patch		4	0.23	10.19	1.01	0.33	1.11	0.04	0.023	0.032	0.099	0.109	0.004	0.08	4.98	0.69	0.19	0.86	0	0.00785	0.48871	0.06771	0.01865	0.0844	0
N260		38	0	Patch		4	0.19	10.14	0.32	1.86	0.88	0.06	0.019	0.183	0.032	0.087	0.006	0.07	5.43	0.24	1.27	0.66	0	0.0069	0.5355	0.02367	0.12525	0.06509	0
N260		39	0	Patch		4	0.35	14.36	0.18	1.77	1.69	0.04	0.024	0.123	0.013	0.118	0.003	0.12	5.05	0.11	0.85	0.95	0	0.00836	0.35167	0.00766	0.05919	0.06616	0
N260		129	0	Patch		1	0.05	3.55	0.1	0.24	0.16	0.02	0.014	0.068	0.028	0.045	0.006	0.02	1.51	0.08	0.12	0.11	0	0.00563	0.42535	0.02254	0.0338	0.03099	0
N260		131	0	Patch		1	0.06	3.91	0.1	0.22	0.18	0.01	0.015	0.056	0.026	0.046	0.003	0.03	1.44	0.07	0.14	0.11	0	0.00767	0.36829	0.0179	0.03581	0.02813	0
N260		133	0	Patch		1	0.05	3.85	0.09	0.18	0.19	0.01	0.013	0.047	0.023	0.049	0.003	0.03	1.41	0.06	0.12	0.13	0	0.00779	0.36623	0.01558	0.03117	0.03377	0
N260		135	0	Patch		1	0.03	2.77	0.08	0.1	0.13	0.01	0.011	0.036	0.029	0.047	0.004	0.02	1.18	0.06	0.07	0.09	0	0.00722	0.42599	0.02166	0.02527	0.03249	0
N260		140	0	Patch		2	0.13	8.06	0.19	0.51	0.52	0.02	0.016	0.063	0.024	0.065	0.002	0.07	2.51	0.15	0.27	0.33	0	0.00868	0.31141	0.01861	0.0335	0.04094	0
N260		141	0	Patch		2	0.09	6.84	0.25	0.32	0.43	0.01	0.013	0.047	0.037	0.063	0.001	0.05	2.83	0.2	0.22	0.3	0	0.00731	0.41374	0.02924	0.03216	0.04386	0
N260		142	0	Patch		2	0.12	6.86	0.12	0.77	0.49	0.03	0.017	0.112	0.017	0.071	0.004	0.06	2.76	0.09	0.4	0.36	0	0.00875	0.40233	0.01312	0.05831	0.05248	0
N260		143	0	Patch		2	0.1	8.27	0.13	0.52	0.45	0.03	0.012	0.063	0.016	0.054	0.004	0.06	2.69	0.09	0.34	0.31	0	0.00726	0.32527	0.01088	0.04111	0.03748	0
N260		147	0	Patch		2	0.1	7.05	0.31	0.25	0.38	0.03	0.014	0.035	0.044	0.054	0.004	0.04	2.57	0.25	0.17	0.26	0	0.00567	0.36454	0.03546	0.02411	0.03688	0
N260		148	0	Patch		2	0.1	5.92	0.21	0.6	0.45	0.04	0.017	0.101	0.035	0.076	0.007	0.04	2.82	0.16	0.43	0.34	0	0.00676	0.47635	0.02703	0.07264	0.05743	0
N260		149	0	Patch		2	0.11	7.75	0.16	0.54	0.46	0.03	0.014	0.070	0.021	0.059	0.004	0.06	2.76	0.13	0.36	0.33	0	0.00774	0.35613	0.01677	0.04645	0.04258	0
N260		155	0	Patch		4	0.3	13.54	0.44	1.24	1.12	0.01	0.022	0.092	0.032	0.083	0.001	0.14	5.12	0.32	0.65	0.81	0	0.01034	0.37814	0.02363	0.04801	0.05982	0
N260		156	0	Patch		4	0.25	11.84	0.68	0.42	1.13	0.03	0.021	0.035	0.057	0.095	0.003	0.11	5.23	0.54	0.24	0.87	0	0.00929	0.44172	0.04561	0.02027	0.07348	0
N260		157	0	Patch		4	0.2	9.07	0.63	0.92	1.01	0.06	0.022	0.101	0.069	0.111	0.007	0.06	5.12	0.48	0.66	0.8	0	0.00662	0.5645	0.05292	0.07277	0.0882	0
N260		158	0	Patch		4	0.24	10.34	0.15	1.23	1.12	0.08	0.023	0.119	0.015	0.108	0.008	0.1	5.24	0.11	0.72	0.9	0	0.00967	0.50677	0.01064	0.06963	0.08704	0
N260		159	0	Patch		4	0.28	13.68	0.22	1.2	1.15	0.03	0.020	0.088	0.016	0.084	0.002	0.15	4.36	0.15	0.71	0.71	0	0.01096	0.31871	0.01096	0.0519	0.0519	0
N260		164	0	Patch		4	0.32	13.48	0.47	1	1.24	0.02	0.024	0.074	0.035	0.092	0.001	0.15	5.17	0.36	0.44	0.92	0	0.01113	0.38353	0.02671	0.03264	0.06825	0
N260		165	0	Patch		4	0.2	9.35	0.85	0.43	0.69	0.04	0.021	0.046	0.091	0.074	0.004	0.06	4.75	0.67	0.26	0.55	0	0.00642	0.50802	0.07166	0.02781	0.05882	0
N260		166	0	Patch		4	0.26	9.25	0.39	1.17	1.21	0.07	0.028	0.126	0.042	0.131	0.008	0.08	4.86	0.31	0.88	0.96	0	0.00865	0.52541	0.03351	0.09514	0.10378	0
N260		167	0	Patch		4	0.25	12.48	0.21	1.28	1.03	0.07	0.020	0.103	0.017	0.083	0.006	0.13	5.33	0.13	0.8	0.74	0	0.01042	0.42708	0.01042	0.0641	0.05929	0

- QTM0 N260 LOW channel MIMO

n260 low ch.(37GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
							relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type		Num. of antenne	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
													Max Ratio											Max Ratio					
													0.033	0.236	0.127	0.130	0.009							0.013	0.555	0.095	0.167	0.103	0.000
N260	129	1	0	Patch		2	0.11	7.33	0.2	0.7	0.53	0.03	0.015	0.095	0.027	0.072	0.004	0.06	3.13	0.16	0.42	0.34	0	0.00819	0.42701	0.02183	0.0573	0.04638	0
N260	131	3	0	Patch		2	0.15	8.84	0.35	0.86	0.69	0.02	0.017	0.097	0.040	0.078	0.002	0.06	3.23	0.29	0.56	0.47	0	0.00679	0.36538	0.03281	0.06335	0.05317	0
N260	133	5	0	Patch		2	0.13	8.69	0.38	0.52	0.57	0.03	0.015	0.060	0.044	0.066	0.003	0.07	3.36	0.29	0.36	0.39	0	0.00806	0.38665	0.03337	0.04143	0.04488	0
N260	135	7	0	Patch		2	0.1	6.21	0.25	0.34	0.43	0.03	0.016	0.055	0.040	0.069	0.005	0.05	2.71	0.19	0.25	0.3	0	0.00805	0.43639	0.0306	0.04026	0.04831	0
N260	140	12	0	Patch		4	0.35	16.24	0.59	1.18	1.35	0.05	0.022	0.073	0.036	0.083	0.003	0.16	6.25	0.47	0.65	0.93	0	0.00985	0.38485	0.02894	0.04002	0.05727	0
N260	141	13	0	Patch		4	0.29	13.26	1.01	0.65	1.21	0.07	0.022	0.049	0.076	0.091	0.005	0.09	6.45	0.78	0.42	0.91	0	0.00679	0.48643	0.05882	0.03167	0.06863	0
N260	142	14	0	Patch		4	0.38	15.69	0.42	2.11	1.42	0.06	0.024	0.134	0.027	0.091	0.004	0.14	6.66	0.33	1.32	1.04	0	0.00892	0.42447	0.02103	0.08413	0.06628	0
N260	143	15	0	Patch		4	0.32	16.21	0.44	1.13	1.53	0.09	0.020	0.070	0.027	0.094	0.006	0.16	5.83	0.3	0.73	1.05	0	0.00987	0.35965	0.01851	0.04503	0.06477	0
N260	147	19	0	Patch		4	0.3	15.4	0.72	0.57	1.34	0.04	0.019	0.037	0.047	0.087	0.003	0.13	5.64	0.57	0.39	0.96	0	0.00844	0.36623	0.03701	0.02532	0.06234	0
N260	148	20	0	Patch		4	0.29	12.5	0.61	2.48	1.32	0.07	0.023	0.198	0.049	0.106	0.006	0.09	6.46	0.45	1.73	1.03	0	0.0072	0.5168	0.036	0.1384	0.0824	0
N260	149	21	0	Patch		4	0.31	15.44	0.37	2	1.13	0.06	0.020	0.130	0.024	0.073	0.004	0.16	6.08	0.3	1.27	0.8	0	0.01036	0.39378	0.01943	0.08225	0.05181	0
N260	155	27	0	Patch		8	0.69	29.9	1.04	2.35	3.13	0.04	0.023	0.079	0.035	0.105	0.001	0.35	12.01	0.76	1.19	2.26	0	0.01171	0.40167	0.02542	0.0398	0.07559	0
N260	156	28	0	Patch		8	0.69	25.61	2.05	0.86	3.33	0.07	0.027	0.034	0.080	0.130	0.003	0.27	11.77	1.64	0.48	2.63	0	0.01054	0.45959	0.06404	0.01874	0.10269	0
N260	157	29	0	Patch		8	0.58	21.91	1.3	2.78	2.78	0.18	0.026	0.127	0.059	0.127	0.008	0.16	12.17	1	2.07	2.2	0	0.0073	0.55545	0.04564	0.09448	0.10041	0
N260	158	30	0	Patch		8	0.72	23.46	0.52	3.68	2.64	0.2	0.031	0.157	0.022	0.113	0.009	0.26	12.04	0.43	2.48	2.1	0	0.01108	0.51321	0.01833	0.10571	0.08951	0
N260	159	31	0	Patch		8	0.54	30.31	0.97	2.37	2.76	0.07	0.018	0.078	0.032	0.091	0.002	0.29	10.53	0.68	1.28	1.81	0	0.00957	0.34741	0.02243	0.04223	0.05972	0
N260	164	36	0	Patch		8	0.76	28.35	1.11	1.87	3.64	0.04	0.027	0.066	0.039	0.128	0.001	0.37	12.11	0.79	0.88	2.73	0	0.01305	0.42716	0.02787	0.03104	0.0963	0
N261	165	37	0	Patch		8	0.65	22.34	2.84	0.82	2.65	0.12	0.029	0.037	0.127	0.119	0.005	0.22	11.04	2.12	0.53	2.16	0	0.00985	0.49418	0.0949	0.02372	0.09669	0
N262	166	38	0	Patch		8	0.71	21.53	1.14	5.08	2.8	0.15	0.033	0.236	0.053	0.130	0.007	0.23	11.52	0.87	3.6	2.21	0	0.01068	0.53507	0.04041	0.16721	0.10265	0
N263	167	39	0	Patch		8	0.72	28.89	0.4	3.39	3.01	0.2	0.025	0.117	0.014	0.104	0.007	0.26	11.88	0.25	2.11	1.78	0	0.009	0.41121	0.00865	0.07304	0.06161	0

- QTM1 N260 LOW channel SISO

n260 low ch.(37GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
													Max Ratio											Max Ratio					
													0.387	0.003	0.469	0.007	0.019							0.149	0.240	0.003	0.637	0.006	0.000
							relative phase worst PD for MIMO											relative phase worst PD for MIMO											
Band	Beam_ID		Ant module	Ant Type		Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
N260		0	1	Patch		1	1.04	1.13	0.01	2.93	0.01	0.03	0.355	0.003	0.386	0.003	0.010	0.37	0.39	0	1.27	0.01	0	0.12628	0.13311	0	0.43345	0.00341	0
N260		2	1	Patch		1	1.09	1.87	0.01	4.1	0.01	0.02	0.266	0.002	0.456	0.002	0.005	0.32	0.66	0.01	1.95	0.01	0	0.07805	0.16098	0.00244	0.47561	0.00244	0
N260		4	1	Patch		1	1.36	1.32	0.01	4.75	0.01	0.02	0.286	0.002	0.278	0.002	0.004	0.46	0.43	0	2.28	0.01	0	0.09684	0.09053	0	0.48	0.00211	0
N260		6	1	Patch		1	1.1	0.79	0	3.29	0.01	0.01	0.334	0.000	0.240	0.003	0.003	0.35	0.24	0	1.62	0.01	0	0.10638	0.07295	0	0.4924	0.00304	0
N260		8	1	Patch		2	2.48	2.01	0.02	8.13	0.02	0.05	0.305	0.002	0.247	0.002	0.006	1.08	0.53	0.01	3.76	0.02	0	0.13284	0.06519	0.00123	0.46248	0.00246	0
N260		9	1	Patch		2	2.29	3.15	0.01	8.57	0.02	0.02	0.267	0.001	0.368	0.002	0.002	0.74	1.28	0.01	5.03	0.02	0	0.08635	0.14936	0.00117	0.58693	0.00233	0
N260		10	1	Patch		2	2.48	3.44	0.01	8.97	0.01	0.04	0.276	0.001	0.384	0.001	0.004	0.75	1.42	0.01	4	0.01	0	0.08361	0.15831	0.00111	0.44593	0.00111	0
N260		11	1	Patch		2	1.8	3.06	0.01	6.9	0.02	0.05	0.261	0.001	0.443	0.003	0.007	0.53	1.15	0.01	2.82	0.02	0	0.07681	0.16667	0.00145	0.4087	0.0029	0
N260		16	1	Patch		2	2.42	2.91	0.02	8.4	0.03	0.03	0.288	0.002	0.346	0.004	0.004	0.85	1.03	0.01	4.8	0.02	0	0.10119	0.12262	0.00119	0.57143	0.00238	0
N260		17	1	Patch		2	2.48	3.37	0.01	8.84	0.02	0.03	0.281	0.001	0.381	0.002	0.003	0.8	1.39	0.01	4.75	0.01	0	0.0905	0.15724	0.00113	0.53733	0.00113	0
N260		18	1	Patch		2	2.05	2.94	0.01	7	0.03	0.02	0.293	0.001	0.420	0.004	0.003	0.76	1.16	0.01	3.57	0.02	0	0.10857	0.16571	0.00143	0.51	0.00286	0
N260		22	1	Patch		4	4.3	5.03	0.04	13.16	0.03	0.13	0.327	0.003	0.382	0.002	0.010	1.93	1.59	0.03	6.28	0.02	0	0.14666	0.12082	0.00228	0.4772	0.00152	0
N260		23	1	Patch		4	4.01	4.22	0.03	12.86	0.03	0.1	0.312	0.002	0.328	0.002	0.008	1.56	1.53	0.03	8.07	0.03	0	0.12131	0.11897	0.00233	0.62753	0.00233	0
N260		24	1	Patch		4	4.11	5.48	0.02	14.08	0.05	0.05	0.292	0.001	0.389	0.004	0.004	1.29	2.29	0.01	8.24	0.04	0	0.09162	0.16264	0.00071	0.58523	0.00284	0
N260		25	1	Patch		4	4.44	4.64	0.02	13.44	0.07	0.02	0.330	0.001	0.345	0.005	0.001	1.44	1.93	0.01	6.69	0.05	0	0.10714	0.1436	0.00074	0.49777	0.00372	0
N260		26	1	Patch		4	4.26	5.19	0.04	13.43	0.02	0.12	0.317	0.003	0.386	0.001	0.009	1.77	1.72	0.03	6.26	0.02	0	0.13179	0.12807	0.00223	0.46612	0.00149	0
N260		32	1	Patch		4	4.28	4.8	0.03	13.39	0.02	0.12	0.320	0.002	0.358	0.001	0.009	1.83	1.58	0.02	7.57	0.02	0	0.13667	0.118	0.00149	0.56535	0.00149	0
N260		33	1	Patch		4	3.94	5.01	0.03	13.34	0.03	0.07	0.295	0.002	0.376	0.002	0.005	1.29	2.23	0.03	7.93	0.02	0	0.0967	0.16717	0.00225	0.59445	0.0015	0
N260		34	1	Patch		4	4.98	5.04	0.02	14.51	0.01	0.05	0.343	0.001	0.347	0.001	0.003	1.76	2.13	0.02	7.96	0.01	0	0.1213	0.1468	0.00138	0.54859	0.00069	0
N260		35	1	Patch		4	4.23	5.28	0.04	13.3	0.06	0.1	0.318	0.003	0.397	0.005	0.008	1.76	1.91	0.03	5.06	0.05	0	0.13233	0.14361	0.00226	0.38045	0.00376	0
N260		128	1	Patch		1	1.1	1.11	0.01	3.38	0.01	0.03	0.325	0.003	0.328	0.003	0.009	0.33	0.3	0.01	1.72	0.01	0	0.09763	0.08876	0.00296	0.50888	0.00296	0
N260		130	1	Patch		1	1.4	1.05	0.01	4.13	0.01	0.03	0.339	0.002	0.254	0.002	0.007	0.42	0.31	0	1.96	0.01	0	0.10169	0.07506	0	0.47458	0.00242	0
N260		132	1	Patch		1	1.06	1.43	0	3.51	0.01	0.01	0.302	0.000	0.407	0.003	0.003	0.29	0.54	0	1.78	0.01	0	0.08262	0.15385	0	0.50712	0.00285	0
N260		134	1	Patch		1	0.75	1.18	0	2.64	0.01	0.01	0.284	0.000	0.447	0.004	0.004	0.21	0.45	0	1.22	0.01	0	0.07955	0.17045	0	0.46212	0.00379	0
N260		136	1	Patch		2	1.75	2.82	0.01	6.01	0.01	0.03	0.291	0.002	0.469	0.002	0.005	0.5	1.44	0.01	2.56	0.01	0	0.08319	0.2396	0.00166	0.42596	0.00166	0
N260		137	1	Patch		2	2.32	2.09	0.01	6.89	0.02	0.08	0.337	0.001	0.303	0.003	0.012	0.85	0.71	0.01	3.9	0.02	0	0.12337	0.10305	0.00145	0.56604	0.0029	0
N260		138	1	Patch		2	2.41	2.4	0.01	7.38	0.02	0.04	0.327	0.001	0.325	0.003	0.005	0.81	0.88	0.01	4.2	0.02	0	0.10976	0.11924	0.00136	0.56911	0.00271	0
N260		139	1	Patch		2	2.62	1.88	0.01	7.29	0.01	0.1	0.359	0.001	0.258	0.001	0.014	0.74	0.49	0	2.86	0.01	0	0.10151	0.06722	0	0.39232	0.00137	0
N260		144	1	Patch		2	2.52	2.59	0.01	7.63	0.02	0.06	0.330	0.001	0.339	0.003	0.008	0.8	1.05	0.01	3.63	0.02	0	0.10485	0.13761	0.00131	0.47575	0.00262	0
N260		145	1	Patch		2	1.8	2.35	0.01	5.95	0.02	0.01	0.303	0.002	0.395	0.003	0.002	0.6	1.08	0.01	3.68	0.02	0	0.10084	0.18151	0.00168	0.61849	0.00336	0
N260		146	1	Patch		2	2.5	2.13	0.01	7.43	0.01	0.05	0.336	0.001	0.287	0.001	0.007	0.82	0.67	0.01	3.53	0.01	0	0.11036	0.09017	0.00135	0.4751	0.00135	0
N260		150	1	Patch		4	4.42	4.44	0.02	11.85	0.02	0.22	0.373	0.002	0.375	0.002	0.019	1.29	2.05	0.02	5.12	0.02	0	0.10886	0.173	0.00169	0.43207	0.00169	0
N260		151	1	Patch		4	4.35	4.8	0.02	13.15	0.02	0.08	0.331	0.002	0.365	0.002	0.006	1.56	2.17	0.01	7.33	0.01	0	0.11863	0.16502	0.00076	0.55741	0.00076	0
N260		152	1	Patch		4	3.34	4.85	0.03	12.16	0.03	0.07	0.275	0.002	0.399	0.002	0.006	1.13	1.84	0.03	7.74	0.03	0	0.09293	0.15132	0.00247	0.63651	0.00247	0
N260		153	1	Patch		4	3.93	4.06	0.03	11.78	0.08	0.03	0.334	0.003	0.345	0.007	0.003	1.47	1.53	0.02	7.23	0.07	0	0.12479	0.12988	0.0017	0.61375	0.00594	0
N260		154	1	Patch		4	4.31	4.61	0.02	11.15	0.03	0.13	0.387	0.002	0.413	0.003	0.012	1.66	1.87	0.02	4.38	0.03	0	0.14888	0.16771	0.00179	0.39283	0.00269	0
N260		160	1	Patch		4	4.67	4.47	0.02	12.78	0.02	0.17	0.365	0.002	0.350	0.002	0.013	1.65	2.06	0.01	6.61	0.01	0	0.12911	0.16119	0.00078	0.51721	0.00078	0
N260		161	1	Patch		4	3.82	4.69	0.03	12.85	0.05	0.05	0.297	0.002	0.365	0.004	0.004	1.32	1.72	0.02	8.13	0.04	0	0.10272	0.13385	0.00156	0.63268	0.00311	0
N260		162	1	Patch		4	3.48	4.35	0.02	11.76	0.04	0.04	0.296	0.002	0.370	0.003	0.003	1.28	1.86	0.02	7.36	0.04	0	0.10884	0.15816	0.0017	0.62585	0.0034	0
N260		163	1	Patch		4	4.22	4.73	0.03	11.78	0.08	0.04	0.358	0.003	0.402	0.007	0.003	1.59	1.49	0.02	6.24	0.06	0	0.13497	0.12649	0.0017	0.52971	0.00509	0

- QTM1 N260 LOW channel MIMO

n260 low ch.(37GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
							relative phase worst PD for MIMO											relative phase worst PD for MIMO											
Band	Beam_ID		Ant module	Ant Type		Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
													Max Ratio											Max Ratio					
													0.413	0.003	0.432	0.008	0.016							0.167	0.197	0.003	0.638	0.007	0.000
N260	128	0	1	Patch		2	2.78	2.76	0.02	6.77	0.02	0.1	0.411	0.003	0.408	0.003	0.015	1.05	0.99	0.02	3.26	0.02	0	0.1551	0.14623	0.00295	0.48154	0.00295	0
N260	130	2	1	Patch		2	3.19	3.56	0.01	9.2	0.03	0.06	0.347	0.001	0.387	0.003	0.007	0.87	1.34	0.01	4.66	0.03	0	0.09457	0.14565	0.00109	0.50652	0.00326	0
N260	132	4	1	Patch		4	3.07	3.48	0.02	9.37	0.03	0.04	0.328	0.002	0.371	0.003	0.004	0.95	1.32	0.01	5.03	0.03	0	0.10139	0.14088	0.00107	0.53682	0.0032	0
N260	134	6	1	Patch		4	2.33	2.38	0.01	6.62	0.03	0.02	0.352	0.002	0.360	0.005	0.003	0.75	0.83	0.01	3.3	0.03	0	0.11329	0.12538	0.00151	0.49849	0.00453	0
N260	136	8	1	Patch		4	5.34	6.32	0.03	14.89	0.05	0.1	0.359	0.002	0.424	0.003	0.007	2.29	2.66	0.02	7.2	0.04	0	0.15379	0.17864	0.00134	0.48355	0.00269	0
N260	137	9	1	Patch		4	5.99	6.23	0.03	16.39	0.07	0.18	0.365	0.002	0.380	0.004	0.011	2.15	2.49	0.03	10.13	0.06	0	0.13118	0.15192	0.00183	0.61806	0.00366	0
N260	138	10	1	Patch		4	5.77	6.43	0.03	18.33	0.06	0.14	0.315	0.002	0.351	0.003	0.008	2.01	2.43	0.02	9	0.05	0	0.10966	0.13257	0.00109	0.491	0.00273	0
N260	139	11	1	Patch		4	4.86	6.66	0.02	16.01	0.05	0.17	0.304	0.001	0.416	0.003	0.011	1.59	2.36	0.01	6.73	0.04	0	0.09931	0.14741	0.00062	0.42036	0.0025	0
N260	144	16	1	Patch		4	5.7	6.06	0.03	17.65	0.08	0.11	0.323	0.002	0.343	0.005	0.006	2.14	2.37	0.03	9.39	0.06	0	0.12125	0.13428	0.0017	0.53201	0.0034	0
N260	145	17	1	Patch		4	5.08	6.74	0.02	16.63	0.05	0.06	0.305	0.001	0.405	0.003	0.004	1.52	3.27	0.02	9.98	0.04	0	0.0914	0.19663	0.0012	0.60012	0.00241	0
N260	146	18	1	Patch		4	5.24	6.45	0.02	16.04	0.07	0.07	0.327	0.001	0.402	0.004	0.004	1.86	2.33	0.01	8.45	0.06	0	0.11596	0.14526	0.00062	0.52681	0.00374	0
N260	150	22	1	Patch		8	10.89	11.44	0.08	27.04	0.06	0.42	0.403	0.003	0.423	0.002	0.016	4.52	4.36	0.06	13.32	0.05	0	0.16716	0.16124	0.00222	0.4926	0.00185	0
N260	151	23	1	Patch		8	10.29	9.79	0.08	29.27	0.07	0.2	0.352	0.003	0.334	0.002	0.007	3.62	4.47	0.06	18.67	0.06	0	0.12368	0.15272	0.00205	0.63785	0.00205	0
N260	152	24	1	Patch		8	8.72	11.92	0.05	29.83	0.13	0.2	0.292	0.002	0.400	0.004	0.007	2.56	5.87	0.04	18.55	0.11	0	0.08582	0.19678	0.00134	0.62186	0.00369	0
N260	153	25	1	Patch		8	10.92	9.48	0.06	26.43	0.19	0.09	0.413	0.002	0.359	0.007	0.003	4.02	4.15	0.04	15.51	0.16	0	0.1521	0.15702	0.00151	0.58683	0.00605	0
N260	154	26	1	Patch		8	9.51	11.97	0.07	27.71	0.08	0.3	0.343	0.003	0.432	0.003	0.011	3.52	3.95	0.05	11.71	0.06	0	0.12703	0.14255	0.0018	0.42259	0.00217	0
N260	160	32	1	Patch		8	10.4	10.61	0.07	27.75	0.06	0.27	0.375	0.003	0.382	0.002	0.010	4.51	4.53	0.05	16.48	0.05	0	0.16252	0.16324	0.0018	0.59387	0.0018	0
N260	161	33	1	Patch		8	9.48	10.62	0.09	29.53	0.12	0.18	0.321	0.003	0.360	0.004	0.006	2.83	5.02	0.08	18.63	0.11	0	0.09583	0.17	0.00271	0.63088	0.00373	0
N260	162	34	1	Patch		8	10.59	10.57	0.07	29.63	0.08	0.16	0.357	0.002	0.357	0.003	0.005	3.74	4.98	0.05	17.84	0.07	0	0.12622	0.16807	0.00169	0.60209	0.00236	0
N260	163	35	1	Patch		8	8.42	11.39	0.06	27.31	0.22	0.2	0.308	0.002	0.417	0.008	0.007	3.03	3.56	0.04	12.35	0.18	0	0.11095	0.13036	0.00146	0.45222	0.00659	0

- QTM0 N260 Middle channel SISO

n260 Mid ch.(38.5GHz)					4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
											Max Ratio											Max Ratio					
											0.027	0.131	0.063	0.116	0.008							0.009	0.555	0.048	0.088	0.091	0.000
					relative phase worst PD for MIMO											relative phase worst PD for MIMO											
Band	Beam_ID	Ant module	Ant Type	Num. of antenna feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Right (worst surface)	Left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
N260	1	0	Patch	1	0.03	3.62	0.07	0.29	0.26	0	0.008	0.080	0.019	0.072	0.000	0.02	1.53	0.05	0.16	0.16	0	0.00552	0.42265	0.01381	0.0442	0.0442	0
N260	3	0	Patch	1	0.05	4.68	0.09	0.23	0.24	0.01	0.011	0.049	0.019	0.051	0.002	0.02	1.93	0.08	0.14	0.16	0	0.00427	0.41239	0.01709	0.02991	0.03419	0
N260	5	0	Patch	1	0.06	4.78	0.09	0.17	0.26	0.02	0.013	0.036	0.019	0.054	0.004	0.02	2.25	0.07	0.1	0.18	0	0.00418	0.47071	0.01464	0.02092	0.03766	0
N260	7	0	Patch	1	0.04	3.52	0.07	0.13	0.17	0.01	0.011	0.037	0.020	0.048	0.003	0.02	1.64	0.05	0.08	0.12	0	0.00568	0.46591	0.0142	0.02273	0.03409	0
N260	12	0	Patch	2	0.13	9.79	0.17	0.3	0.7	0.02	0.013	0.031	0.017	0.072	0.002	0.05	3.92	0.13	0.16	0.5	0	0.00511	0.40041	0.01328	0.01634	0.05107	0
N260	13	0	Patch	2	0.12	6.94	0.29	0.19	0.53	0.04	0.017	0.027	0.042	0.076	0.006	0.04	3.65	0.22	0.13	0.39	0	0.00576	0.52594	0.0317	0.01873	0.0562	0
N260	14	0	Patch	2	0.1	9.57	0.16	0.4	0.46	0.02	0.010	0.042	0.017	0.048	0.002	0.03	4.09	0.13	0.26	0.33	0	0.00313	0.42738	0.01358	0.02717	0.03448	0
N260	15	0	Patch	2	0.15	8.76	0.14	0.35	0.66	0.02	0.017	0.040	0.016	0.075	0.002	0.05	3.55	0.1	0.21	0.44	0	0.00571	0.40525	0.01142	0.02397	0.05023	0
N260	19	0	Patch	2	0.09	8.51	0.18	0.38	0.69	0.01	0.011	0.045	0.021	0.081	0.001	0.04	3.13	0.15	0.18	0.49	0	0.0047	0.3678	0.01763	0.02115	0.05758	0
N260	20	0	Patch	2	0.08	6.74	0.2	0.83	0.39	0.02	0.012	0.123	0.030	0.058	0.003	0.03	3.29	0.16	0.49	0.27	0	0.00445	0.48813	0.02374	0.0727	0.04006	0
N260	21	0	Patch	2	0.11	8.31	0.08	0.75	0.62	0.02	0.013	0.090	0.010	0.075	0.002	0.04	3.11	0.06	0.44	0.39	0	0.00481	0.37425	0.00722	0.05295	0.04693	0
N260	27	0	Patch	4	0.33	15.04	0.42	0.97	1.66	0.02	0.022	0.064	0.028	0.110	0.001	0.13	6.66	0.31	0.48	1.24	0	0.00864	0.44282	0.02061	0.03191	0.08245	0
N260	28	0	Patch	4	0.28	13.38	0.4	0.32	1.5	0.04	0.021	0.024	0.030	0.112	0.003	0.1	7.26	0.3	0.19	1.16	0	0.00747	0.5426	0.02242	0.0142	0.0867	0
N260	29	0	Patch	4	0.19	11	0.54	1.37	0.68	0.06	0.017	0.125	0.049	0.062	0.005	0.06	5.85	0.39	0.89	0.48	0	0.00545	0.53182	0.03545	0.08091	0.04364	0
N260	30	0	Patch	4	0.21	13.8	0.15	1.34	0.91	0.06	0.015	0.097	0.011	0.066	0.004	0.08	7.29	0.1	0.86	0.63	0	0.0058	0.52826	0.00725	0.06232	0.04565	0
N260	31	0	Patch	4	0.27	15.08	0.44	1.08	1.41	0.01	0.018	0.072	0.029	0.094	0.001	0.11	6.28	0.31	0.54	1.02	0	0.00729	0.41645	0.02056	0.03581	0.06764	0
N260	36	0	Patch	4	0.34	14.54	0.36	0.63	1.63	0.03	0.023	0.043	0.025	0.112	0.002	0.12	7.01	0.29	0.26	1.25	0	0.00825	0.48212	0.01994	0.01788	0.08597	0
N260	37	0	Patch	4	0.21	12.47	0.41	0.8	1.12	0.04	0.017	0.064	0.033	0.090	0.003	0.07	6.85	0.34	0.46	0.89	0	0.00561	0.54932	0.02727	0.03689	0.07137	0
N260	38	0	Patch	4	0.18	12.03	0.52	1.36	0.91	0.07	0.015	0.113	0.043	0.076	0.006	0.08	6.55	0.37	0.9	0.63	0	0.00665	0.54447	0.03076	0.07481	0.05237	0
N260	39	0	Patch	4	0.3	15.79	0.27	1.47	1.55	0.03	0.019	0.093	0.017	0.098	0.002	0.11	6.3	0.16	0.77	0.86	0	0.00697	0.39899	0.01013	0.04877	0.05446	0
N260	129	0	Patch	1	0.06	4.03	0.07	0.24	0.24	0.02	0.015	0.060	0.017	0.060	0.005	0.03	1.72	0.05	0.14	0.17	0	0.00744	0.4268	0.01241	0.03474	0.04218	0
N260	131	0	Patch	1	0.05	4.26	0.09	0.24	0.2	0.01	0.012	0.056	0.021	0.047	0.002	0.02	1.87	0.07	0.15	0.13	0	0.00469	0.43897	0.01643	0.03521	0.03052	0
N260	133	0	Patch	1	0.04	4.08	0.09	0.14	0.18	0.01	0.010	0.034	0.022	0.044	0.002	0.02	1.84	0.06	0.1	0.13	0	0.0049	0.45098	0.01471	0.02451	0.03186	0
N260	135	0	Patch	1	0.02	3.03	0.07	0.12	0.11	0.01	0.007	0.040	0.023	0.036	0.003	0.02	1.36	0.05	0.08	0.08	0	0.0066	0.44884	0.0165	0.0264	0.0264	0
N260	140	0	Patch	2	0.16	8.72	0.12	0.46	0.61	0.02	0.018	0.053	0.014	0.070	0.002	0.07	3.17	0.09	0.2	0.4	0	0.00803	0.36353	0.01032	0.02294	0.04587	0
N260	141	0	Patch	2	0.08	7.6	0.15	0.36	0.39	0.01	0.011	0.047	0.020	0.051	0.001	0.04	3.67	0.12	0.24	0.26	0	0.00526	0.48289	0.01579	0.03158	0.03421	0
N260	142	0	Patch	2	0.16	7.55	0.12	0.79	0.67	0.03	0.021	0.105	0.016	0.089	0.004	0.05	3.25	0.09	0.37	0.48	0	0.00662	0.43046	0.01192	0.04901	0.06358	0
N260	143	0	Patch	2	0.14	8.92	0.13	0.43	0.55	0.03	0.016	0.048	0.015	0.062	0.003	0.05	3.49	0.1	0.28	0.36	0	0.00561	0.39126	0.01121	0.03139	0.04036	0
N260	147	0	Patch	2	0.11	8.08	0.22	0.41	0.39	0.03	0.014	0.051	0.027	0.048	0.004	0.06	3.39	0.17	0.27	0.26	0	0.00743	0.41955	0.02104	0.03342	0.03218	0
N260	148	0	Patch	2	0.11	6.86	0.24	0.66	0.53	0.04	0.016	0.096	0.035	0.077	0.006	0.05	3.32	0.17	0.43	0.4	0	0.00729	0.48397	0.02478	0.06268	0.05831	0
N260	149	0	Patch	2	0.15	8.42	0.19	0.42	0.6	0.03	0.018	0.050	0.023	0.071	0.004	0.05	3.53	0.15	0.27	0.41	0	0.00594	0.41924	0.01781	0.03207	0.04869	0
N260	155	0	Patch	4	0.24	14.06	0.28	1.36	0.96	0.02	0.017	0.097	0.020	0.068	0.001	0.13	5.92	0.21	0.71	0.7	0	0.00925	0.42105	0.01494	0.0505	0.04979	0
N260	156	0	Patch	4	0.21	13.33	0.42	0.57	1	0.04	0.016	0.043	0.032	0.075	0.003	0.1	6.68	0.33	0.23	0.75	0	0.0075	0.50113	0.02476	0.01725	0.05626	0
N260	157	0	Patch	4	0.16	9.95	0.63	1.3	0.82	0.04	0.016	0.131	0.063	0.082	0.004	0.05	5.43	0.48	0.88	0.65	0	0.00503	0.54573	0.04824	0.08844	0.06533	0
N260	158	0	Patch	4	0.33	12.13	0.17	0.95	1.41	0.09	0.027	0.078	0.014	0.116	0.007	0.11	6.72	0.13	0.54	1.1	0	0.00907	0.554	0.01072	0.04452	0.09068	0
N260	159	0	Patch	4	0.32	14.54	0.23	1.09	1.19	0.02	0.022	0.075	0.016	0.082	0.001	0.12	5.39	0.17	0.59	0.82	0	0.00825	0.3707	0.01169	0.04058	0.0564	0
N260	164	0	Patch	4	0.22	14.16	0.28	1.16	1.04	0.02	0.016	0.082	0.020	0.073	0.001	0.12	6.18	0.21	0.51	0.76	0	0.00847	0.43644	0.01483	0.03602	0.05367	0
N260	165	0	Patch	4	0.16	11.63	0.54	0.93	0.85	0.05	0.014	0.080	0.046	0.073	0.004	0.07	6.45	0.42	0.62	0.64	0	0.00602	0.5546	0.03611	0.05331	0.05503	0
N260	166	0	Patch	4	0.21	10.49	0.61	1.17	1	0.08	0.020	0.112	0.058	0.095	0.008	0.08	5.57	0.45	0.69	0.82	0	0.00763	0.53098	0.0429	0.06578	0.07817	0
N260	167	0	Patch	4	0.36	13.83	0.15	1.18	1.41	0.05	0.026	0.085	0.011	0.102	0.004	0.12	6.54	0.1	0.75	1.04	0	0.00868	0.47289	0.00723	0.05423	0.0752	0

- QTM0 N260 Middle channel MIMO

n260 Mid ch.(38.5GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
						relative phase worst PD for MIMO											relative phase worst PD for MIMO											
Band	Beam_ID		Ant module	Ant Type	Num. of antenna feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Right (worst surface)	Left (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
												Max Ratio											Max Ratio					
												0.028	0.179	0.064	0.122	0.009							0.013	0.535	0.050	0.118	0.094	0.000
N260	129	1	0	Patch	2	0.15	8.03	0.15	0.75	0.58	0.03	0.019	0.093	0.019	0.072	0.004	0.08	3.44	0.12	0.43	0.39	0	0.00996	0.42839	0.01494	0.05355	0.04857	0
N260	131	3	0	Patch	2	0.14	9.57	0.24	0.82	0.57	0.02	0.015	0.086	0.025	0.060	0.002	0.06	4.13	0.21	0.5	0.37	0	0.00627	0.43156	0.02194	0.05225	0.03866	0
N260	133	5	0	Patch	2	0.12	9.54	0.26	0.43	0.5	0.03	0.013	0.045	0.027	0.052	0.003	0.06	4.21	0.2	0.26	0.34	0	0.00629	0.4413	0.02096	0.02725	0.03564	0
N260	135	7	0	Patch	2	0.1	6.9	0.24	0.4	0.4	0.03	0.014	0.058	0.035	0.058	0.004	0.05	3.26	0.18	0.27	0.27	0	0.00725	0.47246	0.02609	0.03913	0.03913	0
N260	140	12	0	Patch	4	0.42	18.65	0.41	1.08	1.28	0.05	0.023	0.058	0.022	0.069	0.003	0.2	7.3	0.3	0.52	0.94	0	0.01072	0.39142	0.01609	0.02788	0.0504	0
N260	141	13	0	Patch	4	0.3	14.38	0.75	0.67	1.27	0.07	0.021	0.047	0.052	0.088	0.005	0.09	7.68	0.57	0.44	0.97	0	0.00626	0.53408	0.03964	0.0306	0.06745	0
N260	142	14	0	Patch	4	0.37	17.2	0.41	1.9	1.5	0.06	0.022	0.110	0.024	0.087	0.003	0.12	8.11	0.31	1.01	1.12	0	0.00698	0.47151	0.01802	0.05872	0.06512	0
N260	143	15	0	Patch	4	0.28	17.69	0.32	0.84	1.12	0.07	0.016	0.047	0.018	0.063	0.004	0.13	7.38	0.23	0.58	0.75	0	0.00735	0.41718	0.013	0.03279	0.0424	0
N260	147	19	0	Patch	4	0.31	17.83	0.56	1.06	1.69	0.05	0.017	0.059	0.031	0.095	0.003	0.14	7.35	0.49	0.7	1.22	0	0.00785	0.41223	0.02748	0.03926	0.06842	0
N260	148	20	0	Patch	4	0.28	14.45	0.5	2.58	1.27	0.08	0.019	0.179	0.035	0.088	0.006	0.1	7.5	0.4	1.69	0.96	0	0.00692	0.51903	0.02768	0.11696	0.06644	0
N260	149	21	0	Patch	4	0.32	17.32	0.32	1.68	1.25	0.06	0.018	0.097	0.018	0.072	0.003	0.12	7.45	0.23	1.04	0.88	0	0.00693	0.43014	0.01328	0.06005	0.05081	0
N260	155	27	0	Patch	8	0.79	32	0.76	2.72	3.4	0.05	0.025	0.085	0.024	0.106	0.002	0.39	14.16	0.53	1.33	2.4	0	0.01219	0.4425	0.01656	0.04156	0.075	0
N260	156	28	0	Patch	8	0.8	29.64	1.13	1.07	3.52	0.09	0.027	0.036	0.038	0.119	0.003	0.29	15.06	0.86	0.57	2.78	0	0.00978	0.5081	0.02901	0.01923	0.09379	0
N260	157	29	0	Patch	8	0.45	25.66	1.4	4.31	2.12	0.14	0.018	0.168	0.055	0.083	0.005	0.15	13.07	1.06	3.02	1.65	0	0.00585	0.50935	0.04131	0.11769	0.0643	0
N260	158	30	0	Patch	8	0.7	27.94	0.36	2.75	2.68	0.19	0.025	0.098	0.013	0.096	0.007	0.23	14.81	0.28	1.73	1.97	0	0.00823	0.53006	0.01002	0.06192	0.07051	0
N260	159	31	0	Patch	8	0.58	33.02	0.74	2.57	2.56	0.04	0.018	0.078	0.022	0.078	0.001	0.29	12.45	0.57	1.27	1.73	0	0.00878	0.37704	0.01726	0.03846	0.05239	0
N260	164	36	0	Patch	8	0.87	31.38	0.92	2.24	3.84	0.06	0.028	0.071	0.029	0.122	0.002	0.41	14.63	0.68	0.88	2.79	0	0.01307	0.46622	0.02167	0.02804	0.08891	0
N261	165	37	0	Patch	8	0.63	26.67	1.59	2.35	2.82	0.13	0.024	0.088	0.060	0.106	0.005	0.22	14.27	1.24	1.57	2.3	0	0.00825	0.53506	0.04649	0.05887	0.08624	0
N262	166	38	0	Patch	8	0.59	24.36	1.55	3.82	2.46	0.21	0.024	0.157	0.064	0.101	0.009	0.2	12.7	1.21	2.62	1.88	0	0.00821	0.52135	0.04967	0.10755	0.07718	0
N263	167	39	0	Patch	8	0.7	32.27	0.44	2.95	2.8	0.12	0.022	0.091	0.014	0.087	0.004	0.24	14.64	0.26	1.85	2.06	0	0.00744	0.45367	0.00806	0.05733	0.06384	0

- QTM1 N260 Middle channel SISO

n260 Mid ch.(38.5GHz)						4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm (relative phase worst PD for MIMO)						Ratio				
Band	Beam_ID	Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)
											Max Ratio	0.423	0.004	0.542	0.012	0.022
N260	0	1	Patch		1	1.35	1.56	0.01	3.53	0.01	0.02	0.382	0.003	0.442	0.003	0.006
N260	2	1	Patch		1	1.08	2.07	0.01	4.08	0.02	0.02	0.265	0.002	0.507	0.005	0.005
N260	4	1	Patch		1	1.62	1.35	0.01	4.44	0.01	0.02	0.365	0.002	0.304	0.002	0.005
N260	6	1	Patch		1	1.43	0.9	0.01	3.38	0.02	0.01	0.423	0.003	0.266	0.006	0.003
N260	8	1	Patch		2	2.71	2.86	0.02	8.16	0.02	0.05	0.332	0.002	0.350	0.002	0.006
N260	9	1	Patch		2	2.69	3.62	0.01	9.11	0.03	0.06	0.295	0.001	0.397	0.003	0.007
N260	10	1	Patch		2	2.6	3.55	0.01	7.88	0.03	0.05	0.330	0.001	0.451	0.004	0.006
N260	11	1	Patch		2	2.43	3.46	0.02	7.67	0.03	0.03	0.317	0.003	0.451	0.004	0.004
N260	16	1	Patch		2	2.72	3.48	0.03	8.66	0.04	0.04	0.314	0.003	0.402	0.005	0.005
N260	17	1	Patch		2	2.73	3.59	0.01	8.73	0.02	0.07	0.313	0.001	0.411	0.002	0.008
N260	18	1	Patch		2	2.54	3.57	0.02	7.25	0.04	0.02	0.350	0.003	0.492	0.006	0.003
N260	22	1	Patch		4	4.78	5.52	0.04	13.21	0.05	0.08	0.362	0.003	0.418	0.004	0.006
N260	23	1	Patch		4	4.71	5.94	0.03	14.82	0.04	0.08	0.318	0.002	0.401	0.003	0.005
N260	24	1	Patch		4	4.93	5.63	0.03	14.43	0.06	0.1	0.342	0.002	0.390	0.004	0.007
N260	25	1	Patch		4	4.62	5.08	0.03	11.51	0.14	0.06	0.401	0.003	0.441	0.012	0.005
N260	26	1	Patch		4	4.81	5.34	0.04	12.98	0.05	0.08	0.371	0.003	0.411	0.004	0.006
N260	32	1	Patch		4	5	5.34	0.04	14.18	0.04	0.1	0.353	0.003	0.377	0.003	0.007
N260	33	1	Patch		4	4.68	5.73	0.02	13.66	0.06	0.12	0.343	0.001	0.419	0.004	0.009
N260	34	1	Patch		4	5.7	4.69	0.02	13.56	0.04	0.09	0.420	0.001	0.346	0.003	0.007
N260	35	1	Patch		4	4.38	5.81	0.05	12.48	0.07	0.06	0.351	0.004	0.466	0.006	0.005
N260	128	1	Patch		1	1.31	1.46	0.01	3.92	0.01	0.02	0.334	0.003	0.372	0.003	0.005
N260	130	1	Patch		1	1.51	1.11	0.01	4.2	0.01	0.06	0.360	0.002	0.264	0.002	0.014
N260	132	1	Patch		1	1.13	1.73	0.01	3.66	0.01	0.03	0.309	0.003	0.473	0.003	0.008
N260	134	1	Patch		1	0.89	1.61	0	2.97	0.01	0.01	0.300	0.000	0.542	0.003	0.003
N260	136	1	Patch		2	2.26	3.14	0.01	6.55	0.01	0.05	0.345	0.002	0.479	0.002	0.008
N260	137	1	Patch		2	2.56	2.2	0.01	7.35	0.02	0.12	0.348	0.001	0.299	0.003	0.016
N260	138	1	Patch		2	2.61	2.91	0.01	7.55	0.02	0.1	0.346	0.001	0.385	0.003	0.013
N260	139	1	Patch		2	2.93	2.47	0.01	8.14	0.02	0.1	0.360	0.001	0.303	0.002	0.012
N260	144	1	Patch		2	2.6	2.91	0.01	7.82	0.02	0.11	0.332	0.001	0.372	0.003	0.014
N260	145	1	Patch		2	1.69	3.25	0.01	6.38	0.03	0.02	0.265	0.002	0.509	0.005	0.003
N260	146	1	Patch		2	2.7	2.72	0.01	7.89	0.02	0.05	0.342	0.001	0.345	0.003	0.006
N260	150	1	Patch		4	4.45	5.35	0.03	12.24	0.02	0.27	0.364	0.002	0.437	0.002	0.022
N260	151	1	Patch		4	4.98	5.24	0.02	14	0.02	0.13	0.356	0.001	0.374	0.001	0.009
N260	152	1	Patch		4	3.4	5.06	0.05	12.14	0.06	0.11	0.280	0.004	0.417	0.005	0.009
N260	153	1	Patch		4	3.89	5.16	0.02	11.27	0.06	0.08	0.345	0.002	0.458	0.005	0.007
N260	154	1	Patch		4	4.29	5.79	0.02	12.06	0.03	0.12	0.356	0.002	0.480	0.002	0.010
N260	160	1	Patch		4	5.06	5.11	0.02	13.16	0.02	0.26	0.384	0.002	0.388	0.002	0.020
N260	161	1	Patch		4	3.83	5.59	0.03	13.52	0.06	0.05	0.283	0.002	0.413	0.004	0.004
N260	162	1	Patch		4	3.64	4.92	0.03	11.16	0.06	0.09	0.326	0.003	0.441	0.005	0.008
N260	163	1	Patch		4	4.01	5.12	0.03	11.33	0.06	0.09	0.354	0.003	0.452	0.005	0.008

		4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm (relative phase worst PD for MIMO)						Ratio					
Band	Beam_ID	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
							Max Ratio	0.174	0.260	0.003	0.582	0.010	0.000
N260	0	0.52	0.53	0	1.49	0.01	0	0.14731	0.15014	0	0.4221	0.00283	0
N260	2	0.3	0.79	0.01	1.89	0.02	0	0.07353	0.19363	0.00245	0.46324	0.0049	0
N260	4	0.56	0.38	0	1.98	0.01	0	0.12613	0.08559	0	0.44595	0.00225	0
N260	6	0.47	0.27	0	1.55	0.02	0	0.13905	0.07988	0	0.45858	0.00592	0
N260	8	1.05	1	0.01	3.64	0.02	0	0.12868	0.12255	0.00123	0.44608	0.00245	0
N260	9	0.85	1.28	0.01	4.75	0.02	0	0.0933	0.1405	0.0011	0.52141	0.0022	0
N260	10	0.91	1.29	0.01	3.1	0.03	0	0.11548	0.16371	0.00127	0.3934	0.00381	0
N260	11	0.85	1.31	0.01	2.87	0.02	0	0.11082	0.1708	0.0013	0.37419	0.00261	0
N260	16	0.86	1.2	0.02	4.59	0.03	0	0.09931	0.13857	0.00231	0.53002	0.00346	0
N260	17	0.87	1.26	0.01	4.11	0.02	0	0.09966	0.14433	0.00115	0.47079	0.00229	0
N260	18	1.05	1.37	0.01	2.82	0.04	0	0.14483	0.18897	0.00138	0.38897	0.00552	0
N260	22	1.96	1.63	0.03	6.48	0.04	0	0.14837	0.12339	0.00227	0.49054	0.00303	0
N260	23	1.83	2.16	0.02	8.62	0.03	0	0.12348	0.14575	0.00135	0.58165	0.00202	0
N260	24	1.78	2.27	0.02	7.68	0.05	0	0.12335	0.15731	0.00139	0.53222	0.00347	0
N260	25	2	1.88	0.02	4.85	0.12	0	0.17376	0.16334	0.00174	0.42137	0.01043	0
N260	26	2	1.57	0.03	6.06	0.04	0	0.15408	0.12096	0.00231	0.46687	0.00308	0
N260	32	2.08	1.82	0.03	7.53	0.03	0	0.14669	0.12835	0.00212	0.53103	0.00212	0
N260	33	1.86	2.39	0.02	7.89	0.05	0	0.13616	0.17496	0.00146	0.5776	0.00366	0
N260	34	2	1.96	0.02	6.88	0.04	0	0.14749	0.14454	0.00147	0.50737	0.00295	0
N260	35	1.68	1.84	0.04	5.32	0.05	0	0.13462	0.14744	0.00321	0.42628	0.00401	0
N260	128	0.49	0.42	0.01	1.84	0.01	0	0.125	0.10714	0.00255	0.46939	0.00255	0
N260	130	0.49	0.35	0.01	1.62	0.01	0	0.11667	0.08333	0.00238	0.38571	0.00238	0
N260	132	0.28	0.67	0	1.74	0.01	0	0.0765	0.18306	0	0.47541	0.00273	0
N260	134	0.3	0.65	0	1.22	0.01	0	0.10101	0.21886	0	0.41077	0.00337	0
N260	136	0.81	1.59	0.01	2.77	0.01	0	0.12366	0.24275	0.00153	0.4229	0.00153	0
N260	137	0.97	0.76	0.01	3.39	0.02	0	0.13197	0.1034	0.00136	0.46122	0.00272	0
N260	138	0.89	1.03	0.01	3.99	0.02	0	0.11788	0.13642	0.00132	0.52848	0.00265	0
N260	139	0.81	0.69	0.01	3.09	0.01	0	0.09951	0.08477	0.00123	0.37961	0.00123	0
N260	144	0.8	1.05	0.01	3.03	0.02	0	0.1023	0.13427	0.00128	0.38747	0.00256	0
N260	145	0.55	1.66	0.01	3.41	0.02	0	0.08621	0.26019	0.00157	0.53448	0.00313	0
N260	146	0.86	0.71	0.01	3.16	0.02	0	0.109	0.08999	0.00127	0.40051	0.00253	0
N260	150	1.71	2.38	0.02	4.95	0.01	0	0.13971	0.19444	0.00163	0.40441	0.00082	0
N260	151	1.96	2.55	0.01	7.13	0.02	0	0.14	0.18214	0.00071	0.50929	0.00143	0
N260	152	1.2	2.06	0.04	6.54	0.05	0	0.09885	0.16969	0.00329	0.53871	0.00412	0
N260	153	1.41	1.95	0.02	6.22	0.05	0	0.12511	0.17303	0.00177	0.55191	0.00444	0
N260	154	1.34	2.22	0.02	4.4	0.03	0	0.11111	0.18408	0.00166	0.36484	0.00249	0
N260	160	2.07	2.39	0.02	5.98	0.02	0						
N260	161	1.34	2.43	0.03	7.56	0.05	0						
N260	162	1.31	2.04	0.03	6.22	0.05	0						
N260	163	1.42	1.66	0.02	5.28	0.05	0						

- QTM1 N260 Middle channel MIMO

n260 Mid ch.(38.5GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm (relative phase worst PD for MIMO)						Ratio				
Band	Beam_ID		Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)
												Max Ratio	0.533	0.004	0.617	0.010	0.020
N260	128	0	1	Patch		2	3.58	3.93	0.02	8.07	0.03	0.07	0.444	0.002	0.487	0.004	0.009
N260	130	2	1	Patch		2	3.77	4.5	0.03	9.22	0.04	0.15	0.409	0.003	0.488	0.004	0.016
N260	132	4	1	Patch		4	4.17	4.58	0.02	9.51	0.05	0.08	0.438	0.002	0.482	0.005	0.008
N260	134	6	1	Patch		4	3.63	3.63	0.01	6.81	0.05	0.02	0.533	0.001	0.533	0.007	0.003
N260	136	8	1	Patch		4	7.68	10.26	0.04	16.64	0.06	0.18	0.462	0.002	0.617	0.004	0.011
N260	137	9	1	Patch		4	6.41	7.04	0.03	16.44	0.07	0.33	0.390	0.002	0.428	0.004	0.020
N260	138	10	1	Patch		4	6.12	8.28	0.03	17.18	0.08	0.23	0.356	0.002	0.482	0.005	0.013
N260	139	11	1	Patch		4	6.57	7.72	0.04	16.27	0.06	0.12	0.404	0.002	0.474	0.004	0.007
N260	144	16	1	Patch		4	6.62	8.55	0.07	17.38	0.09	0.23	0.381	0.004	0.492	0.005	0.013
N260	145	17	1	Patch		4	5.57	8.82	0.04	17.82	0.07	0.12	0.313	0.002	0.495	0.004	0.007
N260	146	18	1	Patch		4	6.18	8.34	0.05	15.59	0.09	0.13	0.396	0.003	0.535	0.006	0.008
N260	150	22	1	Patch		8	12.34	15.05	0.1	29.7	0.11	0.5	0.415	0.003	0.507	0.004	0.017
N260	151	23	1	Patch		8	12.04	12.56	0.07	30.11	0.07	0.26	0.400	0.002	0.417	0.002	0.009
N260	152	24	1	Patch		8	9.04	11.45	0.11	28.59	0.21	0.3	0.316	0.004	0.400	0.007	0.010
N260	153	25	1	Patch		8	9.17	11.99	0.06	24.21	0.25	0.15	0.379	0.002	0.495	0.010	0.006
N260	154	26	1	Patch		8	10.92	15.54	0.06	27.69	0.14	0.26	0.394	0.002	0.561	0.005	0.009
N260	160	32	1	Patch		8	14	13.6	0.1	30.48	0.07	0.45	0.459	0.003	0.446	0.002	0.015
N260	161	33	1	Patch		8	10	12.41	0.09	29.58	0.18	0.27	0.338	0.003	0.420	0.006	0.009
N260	162	34	1	Patch		8	10.9	11.51	0.07	28.51	0.14	0.23	0.382	0.002	0.404	0.005	0.008
N260	163	35	1	Patch		8	10.11	15.41	0.07	25.9	0.21	0.22	0.390	0.003	0.595	0.008	0.008

			4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm (relative phase worst PD for MIMO)						Ratio					
Band	Beam_ID		Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
								Max Ratio	0.216	0.280	0.003	0.648	0.009	0.000
N260	128	0	1.47	1.4	0.02	3.89	0.03	0	0.18216	0.17348	0.00248	0.48203	0.00372	0
N260	130	2	1.19	1.77	0.02	4.39	0.04	0	0.12907	0.19197	0.00217	0.47614	0.00434	0
N260	132	4	1.28	1.73	0.01	4.96	0.04	0	0.1346	0.18191	0.00105	0.52156	0.00421	0
N260	134	6	1.23	1.39	0.01	3.45	0.04	0	0.18062	0.20411	0.00147	0.50661	0.00587	0
N260	136	8	3.1	4.66	0.03	8.02	0.05	0	0.1863	0.28005	0.0018	0.48197	0.003	0
N260	137	9	2.4	2.84	0.03	9.97	0.06	0	0.14599	0.17275	0.00182	0.60645	0.00365	0
N260	138	10	2.3	2.79	0.02	8.19	0.07	0	0.13388	0.1624	0.00116	0.47672	0.00407	0
N260	139	11	2.23	3.04	0.03	6.4	0.05	0	0.13706	0.18685	0.00184	0.39336	0.00307	0
N260	144	16	2.4	3	0.05	8.45	0.07	0	0.13809	0.17261	0.00288	0.48619	0.00403	0
N260	145	17	1.82	4.29	0.04	9.83	0.06	0	0.10213	0.24074	0.00224	0.55163	0.00337	0
N260	146	18	2.38	3.04	0.04	6.87	0.08	0	0.15266	0.195	0.00257	0.44067	0.00513	0
N260	150	22	5.66	6.15	0.08	13.55	0.08	0	0.19057	0.20707	0.00269	0.45623	0.00269	0
N260	151	23	5.52	5.71	0.06	18.2	0.06	0	0.18333	0.18964	0.00199	0.60445	0.00199	0
N260	152	24	3.39	5	0.09	18.41	0.18	0	0.11857	0.17489	0.00315	0.64393	0.0063	0
N260	153	25	4.22	4.39	0.05	13.21	0.22	0	0.17431	0.18133	0.00207	0.54564	0.00909	0
N260	154	26	4.24	5.43	0.06	11.66	0.1	0	0.15312	0.1961	0.00217	0.42109	0.00361	0
N260	160	32	6.57	6.01	0.08	15	0.07	0	0.21555	0.19718	0.00262	0.49213	0.0023	0
N260	161	33	4.02	5.34	0.07	19.16	0.15	0	0.1359	0.18053	0.00237	0.64773	0.00507	0
N260	162	34	4.54	5.47	0.06	17.12	0.12	0						
N260	163	35	3.73	5.35	0.06	11.83	0.18	0						

- QTM0 N260 High channel SISO

n260 high ch.(39.95GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
							relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
													Max Ratio											Max Ratio					
													0.031	0.198	0.081	0.118	0.008							0.011	0.576	0.058	0.131	0.082	0.000
N260		1	0	Patch		1	0.04	3.43	0.05	0.44	0.2	0.01	0.012	0.128	0.015	0.058	0.003	0.02	1.42	0.03	0.27	0.12	0	0.00583	0.41399	0.00875	0.07872	0.03499	0
N260		3	0	Patch		1	0.04	4.45	0.09	0.31	0.18	0.01	0.009	0.070	0.020	0.040	0.002	0.02	1.96	0.07	0.21	0.12	0	0.00449	0.44045	0.01573	0.04719	0.02697	0
N260		5	0	Patch		1	0.07	4.51	0.1	0.21	0.31	0.01	0.016	0.047	0.022	0.069	0.002	0.03	2.17	0.07	0.15	0.21	0	0.00665	0.48115	0.01552	0.03326	0.04656	0
N260		7	0	Patch		1	0.04	3.37	0.08	0.09	0.18	0.01	0.012	0.027	0.024	0.053	0.003	0.01	1.48	0.06	0.07	0.12	0	0.00297	0.43917	0.0178	0.02077	0.03561	0
N260		12	0	Patch		2	0.13	8.94	0.13	0.44	0.63	0.01	0.015	0.049	0.015	0.070	0.001	0.05	4	0.1	0.28	0.45	0	0.00559	0.44743	0.01119	0.03132	0.05034	0
N260		13	0	Patch		2	0.12	6.28	0.3	0.25	0.55	0.02	0.019	0.040	0.048	0.088	0.003	0.04	3.21	0.22	0.17	0.37	0	0.00637	0.51115	0.03503	0.02707	0.05892	0
N260		14	0	Patch		2	0.07	9.1	0.19	0.36	0.45	0.02	0.008	0.040	0.021	0.049	0.002	0.03	4.22	0.14	0.23	0.31	0	0.0033	0.46374	0.01538	0.02527	0.03407	0
N260		15	0	Patch		2	0.18	8.59	0.1	0.26	0.77	0.03	0.021	0.030	0.012	0.090	0.003	0.06	3.76	0.07	0.15	0.53	0	0.00698	0.43772	0.00815	0.01746	0.0617	0
N260		19	0	Patch		2	0.08	8.37	0.15	0.39	0.54	0.01	0.010	0.047	0.018	0.065	0.001	0.03	3.34	0.11	0.28	0.38	0	0.00358	0.39904	0.01314	0.03345	0.0454	0
N260		20	0	Patch		2	0.12	6.43	0.21	1.27	0.38	0.02	0.019	0.198	0.033	0.059	0.003	0.03	2.99	0.16	0.84	0.26	0	0.00467	0.46501	0.02488	0.13064	0.04044	0
N260		21	0	Patch		2	0.08	7.71	0.11	0.69	0.5	0.03	0.010	0.089	0.014	0.065	0.004	0.03	3.22	0.06	0.42	0.29	0	0.00389	0.41764	0.00778	0.05447	0.03761	0
N260		27	0	Patch		4	0.32	14.38	0.38	0.81	1.53	0.04	0.022	0.056	0.026	0.106	0.003	0.11	6.86	0.27	0.4	1.14	0	0.00765	0.47705	0.01878	0.02782	0.07928	0
N260		28	0	Patch		4	0.27	13.23	0.3	0.8	1.17	0.02	0.020	0.060	0.023	0.088	0.002	0.08	7.32	0.22	0.5	0.93	0	0.00605	0.55329	0.01663	0.03779	0.07029	0
N260		29	0	Patch		4	0.25	11.02	0.62	1.88	0.85	0.04	0.023	0.171	0.056	0.077	0.004	0.08	4.54	0.44	1.29	0.61	0	0.00726	0.41198	0.03993	0.11706	0.05535	0
N260		30	0	Patch		4	0.14	12.79	0.26	1.36	0.78	0.07	0.011	0.106	0.020	0.061	0.005	0.05	7.11	0.18	0.87	0.52	0	0.00391	0.5559	0.01407	0.06802	0.04066	0
N260		31	0	Patch		4	0.25	14.34	0.4	0.86	1.32	0.03	0.017	0.060	0.028	0.092	0.002	0.09	6.63	0.27	0.44	1	0	0.00628	0.46234	0.01883	0.03068	0.06974	0
N260		36	0	Patch		4	0.34	14.08	0.3	0.68	1.51	0.05	0.024	0.048	0.021	0.107	0.004	0.11	7.31	0.24	0.41	1.15	0	0.00781	0.51918	0.01705	0.02912	0.08168	0
N260		37	0	Patch		4	0.2	12.3	0.46	1.26	0.75	0.03	0.016	0.102	0.037	0.061	0.002	0.09	6.11	0.35	0.86	0.54	0	0.00732	0.49675	0.02846	0.06992	0.0439	0
N260		38	0	Patch		4	0.19	11.47	0.62	1.75	0.94	0.05	0.017	0.153	0.054	0.082	0.004	0.07	5.74	0.45	1.25	0.7	0	0.0061	0.50044	0.03923	0.10898	0.06103	0
N260		39	0	Patch		4	0.17	14.38	0.28	0.97	1.24	0.04	0.012	0.067	0.019	0.086	0.003	0.08	6.86	0.15	0.55	0.79	0	0.00556	0.47705	0.01043	0.03825	0.05494	0
N260		129	0	Patch		1	0.07	3.85	0.05	0.32	0.27	0.01	0.018	0.083	0.013	0.070	0.003	0.03	1.71	0.04	0.2	0.18	0	0.00779	0.44416	0.01039	0.05195	0.04675	0
N260		131	0	Patch		1	0.07	4.03	0.12	0.27	0.25	0.01	0.017	0.067	0.030	0.062	0.002	0.02	1.82	0.09	0.16	0.17	0	0.00496	0.45161	0.02233	0.0397	0.04218	0
N260		133	0	Patch		1	0.04	3.75	0.11	0.23	0.12	0.01	0.011	0.061	0.029	0.032	0.003	0.02	1.76	0.08	0.16	0.08	0	0.00533	0.46933	0.02133	0.04267	0.02133	0
N260		135	0	Patch		1	0.03	2.79	0.09	0.09	0.09	0.01	0.011	0.032	0.032	0.032	0.004	0.01	1.22	0.06	0.06	0.07	0	0.00358	0.43728	0.02151	0.02151	0.02509	0
N260		140	0	Patch		2	0.21	8.32	0.1	0.36	0.79	0.02	0.025	0.043	0.012	0.095	0.002	0.07	3.41	0.07	0.15	0.51	0	0.00841	0.40986	0.00841	0.01803	0.0613	0
N260		141	0	Patch		2	0.12	7.34	0.23	0.56	0.28	0.01	0.016	0.076	0.031	0.038	0.001	0.05	3.38	0.18	0.4	0.19	0	0.00681	0.46049	0.02452	0.0545	0.02589	0
N260		142	0	Patch		2	0.22	7.02	0.16	0.81	0.83	0.03	0.031	0.115	0.023	0.118	0.004	0.07	3.23	0.12	0.41	0.57	0	0.00997	0.46011	0.01709	0.0584	0.0812	0
N260		143	0	Patch		2	0.11	8.07	0.14	0.45	0.45	0.02	0.014	0.056	0.017	0.056	0.002	0.04	3.61	0.1	0.31	0.29	0	0.00496	0.44734	0.01239	0.03841	0.03594	0
N260		147	0	Patch		2	0.13	7.94	0.2	0.69	0.46	0.02	0.016	0.087	0.025	0.058	0.003	0.07	3.48	0.16	0.44	0.35	0	0.00882	0.43829	0.02015	0.05542	0.04408	0
N260		148	0	Patch		2	0.14	6.48	0.26	1.01	0.64	0.03	0.022	0.156	0.040	0.099	0.005	0.04	3.08	0.2	0.57	0.48	0	0.00617	0.47531	0.03086	0.08796	0.07407	0
N260		149	0	Patch		2	0.12	7.86	0.22	0.46	0.47	0.03	0.015	0.059	0.028	0.060	0.004	0.04	3.59	0.17	0.32	0.31	0	0.00509	0.45674	0.02163	0.04071	0.03944	0
N260		155	0	Patch		4	0.24	13.06	0.21	1.21	0.96	0.02	0.018	0.093	0.016	0.074	0.002	0.12	5.93	0.15	0.64	0.62	0	0.00919	0.45406	0.01149	0.049	0.04747	0
N260		156	0	Patch		4	0.19	12.49	0.32	0.71	0.77	0.04	0.015	0.057	0.026	0.062	0.003	0.09	6.84	0.23	0.41	0.56	0	0.00721	0.54764	0.01841	0.03283	0.04484	0
N260		157	0	Patch		4	0.26	9.64	0.78	1.75	0.81	0.06	0.027	0.182	0.081	0.084	0.006	0.09	4.12	0.56	1.18	0.62	0	0.00934	0.42739	0.05809	0.12241	0.06432	0
N260		158	0	Patch		4	0.31	11.84	0.21	0.91	1.34	0.07	0.026	0.077	0.018	0.113	0.006	0.1	6.82	0.15	0.5	0.97	0	0.00845	0.57601	0.01267	0.04223	0.08193	0
N260		159	0	Patch		4	0.31	13.43	0.14	0.79	1.26	0.02	0.023	0.059	0.010	0.094	0.001	0.1	5.73	0.1	0.48	0.83	0	0.00745	0.42666	0.00745	0.03574	0.0618	0
N260		164	0	Patch		4	0.22	13.34	0.21	1.08	0.77	0.03	0.016	0.081	0.016	0.058	0.002	0.12	6.35	0.15	0.46	0.48	0	0.009	0.47601	0.01124	0.03448	0.03598	0
N260		165	0	Patch		4	0.16	11.13	0.69	1.14	0.7	0.04	0.014	0.102	0.062	0.063	0.004	0.05	5.72	0.54	0.73	0.55	0	0.00449	0.51393	0.04852	0.06559	0.04942	0
N260		166	0	Patch		4	0.25	9.84	0.76	1.66	0.95	0.08	0.025	0.169	0.077	0.097	0.008	0.11	4.71	0.57	1.08	0.71	0	0.01118	0.47866	0.05793	0.10976	0.07215	0
N260		167	0	Patch		4	0.35	12.85	0.1	0.91	1.4	0.04	0.027	0.071	0.008	0.109	0.003	0.11	6.71	0.07	0.49	0.98	0	0.00856	0.52218	0.00545	0.03813	0.07626	0

- QTM0 N260 High channel MIMO

n260 high ch.(39.95GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm						Ratio					
							relative phase worst PD for MIMO						Front /	Right	Left	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	(worst surface)	(worst surface)	(worst surface)	(worst surface)	(worst surface)	Front	Back	Left	Right	Top	Bottom	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
													Max Ratio											Max Ratio					
													0.024	0.199	0.073	0.106	0.009							0.011	0.589	0.057	0.131	0.081	0.000
N260	129	1	0	Patch		2	0.16	7.77	0.13	0.96	0.5	0.03	0.021	0.124	0.017	0.064	0.004	0.08	3.37	0.1	0.58	0.36	0	0.0103	0.43372	0.01287	0.07465	0.04633	0
N260	131	3	0	Patch		2	0.12	9.19	0.33	0.72	0.47	0.03	0.013	0.078	0.036	0.051	0.003	0.06	4.02	0.28	0.49	0.33	0	0.00653	0.43743	0.03047	0.05332	0.03591	0
N260	133	5	0	Patch		2	0.11	8.91	0.24	0.51	0.53	0.02	0.012	0.057	0.027	0.059	0.002	0.06	4.06	0.16	0.34	0.35	0	0.00673	0.45567	0.01796	0.03816	0.03928	0
N260	135	7	0	Patch		2	0.08	6.71	0.24	0.22	0.37	0.03	0.012	0.033	0.036	0.055	0.004	0.04	2.9	0.18	0.16	0.26	0	0.00596	0.43219	0.02683	0.02385	0.03875	0
N260	140	12	0	Patch		4	0.32	17.46	0.25	0.85	1.33	0.03	0.018	0.049	0.014	0.076	0.002	0.15	7.61	0.19	0.59	0.95	0	0.00859	0.43585	0.01088	0.03379	0.05441	0
N260	141	13	0	Patch		4	0.24	14.02	0.61	0.92	1.02	0.05	0.017	0.066	0.044	0.073	0.004	0.1	6.9	0.46	0.68	0.75	0	0.00713	0.49215	0.03281	0.0485	0.0535	0
N260	142	14	0	Patch		4	0.36	16.62	0.5	1.43	1.53	0.06	0.022	0.086	0.030	0.092	0.004	0.11	7.98	0.38	0.76	1.11	0	0.00662	0.48014	0.02286	0.04573	0.06679	0
N260	143	15	0	Patch		4	0.31	16.77	0.23	0.68	1.36	0.07	0.018	0.041	0.014	0.081	0.004	0.11	7.42	0.15	0.44	0.89	0	0.00656	0.44246	0.00894	0.02624	0.05307	0
N260	147	19	0	Patch		4	0.28	17.78	0.5	1.65	1.53	0.04	0.016	0.093	0.028	0.086	0.002	0.14	7.14	0.43	1.03	1.14	0	0.00787	0.40157	0.02418	0.05793	0.06412	0
N260	148	20	0	Patch		4	0.28	14.34	0.72	2.85	1.33	0.06	0.020	0.199	0.050	0.093	0.004	0.09	6.88	0.58	1.88	0.97	0	0.00628	0.47978	0.04045	0.1311	0.06764	0
N260	149	21	0	Patch		4	0.2	16.13	0.4	1.19	1	0.08	0.012	0.074	0.025	0.062	0.005	0.09	7.36	0.3	0.75	0.72	0	0.00558	0.45629	0.0186	0.0465	0.04464	0
N260	155	27	0	Patch		8	0.63	30.04	0.68	2.26	2.61	0.07	0.021	0.075	0.023	0.087	0.002	0.3	14.16	0.46	1.21	1.86	0	0.00999	0.47137	0.01531	0.04028	0.06192	0
N260	156	28	0	Patch		8	0.63	27.85	0.7	2.24	2.83	0.08	0.023	0.080	0.025	0.102	0.003	0.25	16.04	0.55	1.43	2.23	0	0.00898	0.57594	0.01975	0.05135	0.08007	0
N260	157	29	0	Patch		8	0.45	25.62	1.59	4.08	2.12	0.16	0.018	0.159	0.062	0.083	0.006	0.16	9.48	1.23	2.81	1.65	0	0.00625	0.37002	0.04801	0.10968	0.0644	0
N260	158	30	0	Patch		8	0.58	25.66	0.63	2.2	2.52	0.16	0.023	0.086	0.025	0.098	0.006	0.2	15.11	0.44	1.32	1.78	0	0.00779	0.58885	0.01715	0.05144	0.06937	0
N260	159	31	0	Patch		8	0.5	30.9	0.63	1.84	2.35	0.08	0.016	0.060	0.020	0.076	0.003	0.25	12.32	0.41	1.09	1.7	0	0.00809	0.39871	0.01327	0.03528	0.05502	0
N260	164	36	0	Patch		8	0.73	29.98	0.59	1.88	3.01	0.08	0.024	0.063	0.020	0.100	0.003	0.33	15.61	0.44	0.76	2.18	0	0.01101	0.52068	0.01468	0.02535	0.07272	0
N261	165	37	0	Patch		8	0.42	27.11	1.06	3.8	1.89	0.12	0.015	0.140	0.039	0.070	0.004	0.16	13.55	0.8	2.41	1.57	0	0.0059	0.49982	0.02951	0.0889	0.05791	0
N262	166	38	0	Patch		8	0.49	23.35	1.71	3.05	2.47	0.21	0.021	0.131	0.073	0.106	0.009	0.18	10.92	1.33	2.2	1.89	0	0.00771	0.46767	0.05696	0.09422	0.08094	0
N263	167	39	0	Patch		8	0.63	29.38	0.42	2.53	2.63	0.11	0.021	0.086	0.014	0.090	0.004	0.2	14.77	0.24	1.35	1.81	0	0.00681	0.50272	0.00817	0.04595	0.06161	0

- QTM1 N260 High channel SISO

													Max Ratio												Max Ratio					
													0.458	0.004	0.517	0.010	0.021							0.177	0.250	0.004	0.558	0.008	0.000
n260 high ch.(40GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID		Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
N260		0	1	Patch		1	1.38	1.69	0.01	3.43	0.01	0.01	0.402	0.003	0.493	0.003	0.003	0.53	0.59	0	1.35	0.01	0	0.15452	0.17201	0	0.39359	0.00292	0
N260		2	1	Patch		1	1.03	2.1	0.01	4.06	0.01	0.03	0.254	0.002	0.517	0.002	0.007	0.31	0.82	0.01	1.65	0.01	0	0.07635	0.20197	0.00246	0.4064	0.00246	0
N260		4	1	Patch		1	1.65	1.12	0.01	4.23	0.02	0.03	0.390	0.002	0.265	0.005	0.007	0.53	0.33	0.01	1.62	0.02	0	0.1253	0.07801	0.00236	0.38298	0.00473	0
N260		6	1	Patch		1	1.15	0.96	0	3.01	0.02	0.01	0.382	0.000	0.319	0.007	0.003	0.39	0.26	0	1.38	0.01	0	0.12957	0.08638	0	0.45847	0.00332	0
N260		8	1	Patch		2	2.51	2.7	0.01	6.98	0.01	0.04	0.360	0.001	0.387	0.001	0.006	1.05	0.89	0.01	2.76	0.01	0	0.15043	0.12751	0.00143	0.39542	0.00143	0
N260		9	1	Patch		2	2.84	3.24	0.02	8.1	0.02	0.06	0.351	0.002	0.400	0.002	0.007	0.82	1.09	0.02	4.07	0.02	0	0.10123	0.13457	0.00247	0.50247	0.00247	0
N260		10	1	Patch		2	2.24	3.5	0.01	8.05	0.05	0.06	0.278	0.001	0.435	0.006	0.007	0.75	1.55	0.01	2.65	0.04	0	0.09317	0.19255	0.00124	0.32919	0.00497	0
N260		11	1	Patch		2	2.17	3.73	0.02	7.7	0.02	0.03	0.282	0.003	0.484	0.003	0.004	0.8	1.5	0.01	2.57	0.02	0	0.1039	0.19481	0.0013	0.33377	0.0026	0
N260		16	1	Patch		2	3.01	2.91	0.02	7.85	0.02	0.07	0.383	0.003	0.371	0.003	0.009	0.85	1.06	0.01	3.58	0.02	0	0.10828	0.13503	0.00127	0.45605	0.00255	0
N260		17	1	Patch		2	2.46	3.35	0.01	8.27	0.04	0.07	0.297	0.001	0.405	0.005	0.008	0.77	1.14	0.01	3.63	0.03	0	0.09311	0.13785	0.00121	0.43894	0.00363	0
N260		18	1	Patch		2	2.55	3.59	0.02	7.45	0.04	0.02	0.342	0.003	0.482	0.005	0.003	1.01	1.49	0.01	2.69	0.03	0	0.13557	0.2	0.00134	0.36107	0.00403	0
N260		22	1	Patch		4	4.53	5.38	0.03	11.14	0.05	0.09	0.407	0.003	0.483	0.004	0.008	1.97	2.26	0.02	4.55	0.04	0	0.17684	0.20287	0.0018	0.40844	0.00359	0
N260		23	1	Patch		4	4.5	6.03	0.03	12.78	0.02	0.12	0.352	0.002	0.472	0.002	0.009	1.74	2.33	0.03	6.82	0.01	0	0.13615	0.18232	0.00235	0.53365	0.00078	0
N260		24	1	Patch		4	4.84	4.61	0.03	13.08	0.06	0.09	0.370	0.002	0.352	0.005	0.007	1.55	1.69	0.03	6.51	0.05	0	0.1185	0.1292	0.00229	0.49771	0.00382	0
N260		25	1	Patch		4	3.73	6.04	0.02	12.45	0.12	0.04	0.300	0.002	0.485	0.010	0.003	1.57	2.52	0.02	4.96	0.1	0	0.1261	0.20241	0.00161	0.39839	0.00803	0
N260		26	1	Patch		4	4.48	5.72	0.03	11.34	0.05	0.08	0.395	0.003	0.504	0.004	0.007	1.95	2.44	0.02	4.14	0.05	0	0.17196	0.21517	0.00176	0.36508	0.00441	0
N260		32	1	Patch		4	4.45	5.46	0.03	11.69	0.03	0.14	0.381	0.003	0.467	0.003	0.012	1.88	2.09	0.03	5.08	0.02	0	0.16082	0.17879	0.00257	0.43456	0.00171	0
N260		33	1	Patch		4	4.35	5.45	0.04	12.8	0.03	0.07	0.340	0.003	0.426	0.002	0.005	1.56	2	0.03	7.14	0.03	0	0.12188	0.15625	0.00234	0.55781	0.00234	0
N260		34	1	Patch		4	5.14	4.06	0.02	12.2	0.08	0.11	0.421	0.002	0.333	0.007	0.009	2.04	1.7	0.01	5.41	0.07	0	0.16721	0.13934	0.00082	0.44344	0.00574	0
N260		35	1	Patch		4	4.57	5.67	0.03	11.55	0.08	0.05	0.396	0.003	0.491	0.007	0.004	1.83	2.51	0.02	4.26	0.06	0	0.15844	0.21732	0.00173	0.36883	0.00519	0
N260		128	1	Patch		1	1.45	1.44	0.01	3.63	0.01	0.02	0.399	0.003	0.397	0.003	0.006	0.57	0.41	0.01	1.68	0.01	0	0.15702	0.11295	0.00275	0.46281	0.00275	0
N260		130	1	Patch		1	1.5	1.15	0.01	3.92	0.01	0.04	0.383	0.003	0.293	0.003	0.010	0.58	0.36	0	1.39	0.01	0	0.14796	0.09184	0	0.35459	0.00255	0
N260		132	1	Patch		1	0.9	1.67	0	3.54	0.01	0.04	0.254	0.000	0.472	0.003	0.011	0.26	0.59	0	1.58	0.01	0	0.07345	0.16667	0	0.44633	0.00282	0
N260		134	1	Patch		1	0.82	1.48	0	2.88	0.01	0.01	0.285	0.000	0.514	0.003	0.003	0.26	0.64	0	1.19	0.01	0	0.09028	0.22222	0	0.41319	0.00347	0
N260		136	1	Patch		2	2.12	3.2	0.01	6.67	0.01	0.06	0.318	0.001	0.480	0.001	0.009	0.78	1.67	0.01	2.45	0.01	0	0.11694	0.25037	0.0015	0.36732	0.0015	0
N260		137	1	Patch		2	2.3	2.77	0.02	6.72	0.02	0.06	0.342	0.003	0.412	0.003	0.009	0.98	1.09	0.01	2.95	0.02	0	0.14583	0.1622	0.00149	0.43899	0.00298	0
N260		138	1	Patch		2	2.65	2.49	0.02	7	0.03	0.06	0.379	0.003	0.356	0.004	0.009	0.96	0.85	0.01	3.27	0.02	0	0.13714	0.12143	0.00143	0.46714	0.00286	0
N260		139	1	Patch		2	3.09	1.93	0.01	7.44	0.01	0.08	0.415	0.001	0.259	0.001	0.011	0.85	0.6	0.01	2.65	0.01	0	0.11425	0.08065	0.00134	0.35618	0.00134	0
N260		144	1	Patch		2	1.95	3	0.01	7.46	0.02	0.1	0.261	0.001	0.402	0.003	0.013	0.7	1.1	0.01	2.52	0.02	0	0.09383	0.14745	0.00134	0.3378	0.00268	0
N260		145	1	Patch		2	1.28	2.91	0.01	5.79	0.03	0.05	0.221	0.002	0.503	0.005	0.009	0.36	1.27	0.01	3.17	0.02	0	0.06218	0.21934	0.00173	0.5475	0.00345	0
N260		146	1	Patch		2	3.25	2.32	0.01	7.68	0.02	0.05	0.423	0.001	0.302	0.003	0.007	1.03	0.59	0.01	2.64	0.02	0	0.13411	0.07682	0.0013	0.34375	0.0026	0
N260		150	1	Patch		4	3.77	5.51	0.02	12	0.01	0.2	0.314	0.002	0.459	0.001	0.017	1.51	2.66	0.01	4.65	0.01	0	0.12583	0.22167	0.00083	0.3875	0.00083	0
N260		151	1	Patch		4	3.78	4.67	0.02	11.46	0.03	0.17	0.330	0.002	0.408	0.003	0.015	1.65	2.1	0.02	5.56	0.02	0	0.14398	0.18325	0.00175	0.48517	0.00175	0
N260		152	1	Patch		4	3.21	5.22	0.04	11.57	0.05	0.05	0.277	0.003	0.451	0.004	0.004	1.28	1.98	0.04	6.28	0.04	0	0.11063	0.17113	0.00346	0.54278	0.00346	0
N260		153	1	Patch		4	4.63	4.89	0.03	10.1	0.07	0.04	0.458	0.003	0.484	0.007	0.004	1.76	1.58	0.02	4.83	0.07	0	0.17426	0.15644	0.00198	0.47822	0.00693	0
N260		154	1	Patch		4	4.55	5.86	0.02	12.1	0.03	0.08	0.376	0.002	0.484	0.002	0.007	1.6	2.73	0.01	4.08	0.02	0	0.13223	0.22562	0.00083	0.33719	0.00165	0
N260		160	1	Patch		4	3.79	4.83	0.03	11.56	0.02	0.24	0.328	0.003	0.418	0.002	0.021	1.7	2.28	0.02	5.19	0.02	0	0.14706	0.19723	0.00173	0.44896	0.00173	0
N260		161	1	Patch		4	3.19	5.33	0.04	11.55	0.05	0.09	0.276	0.003	0.461	0.004	0.008	1.29	2.1	0.03	5.85	0.04	0	0.11169	0.18182	0.0026	0.50649	0.00346	0
N260		162	1	Patch		4	3.89	4.9	0.04	10.63	0.06	0.04	0.366	0.004	0.461	0.006	0.004	1.58	1.84	0.04	5.56	0.06	0	0.14864	0.1731	0.00376	0.52305	0.00564	0
N260		163	1	Patch		4	5	5.25	0.02	11.19	0.06	0.05	0.447	0.002	0.469	0.005	0.004	1.63	1.96	0.02	4.06	0.05	0	0.14567	0.17516	0.00179	0.36282	0.00447	0

- QTM1 N260 High channel MIMO

n260 high ch.(40GHz)							4cm2 PD(W/m2) at 2mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					4cm2 PD(W/m2) at 10mm evaluation surfaces @6dBm relative phase worst PD for MIMO						Ratio					
Band	Beam_ID		Ant module	Ant Type	Num. of Feed	Mumers of Feeds	Front	Back	Left	Right	Top	Bottom	Front / (worst surface)	Left (worst surface)	back (worst surface)	TOP (worst surface)	Bottom (worst surface)	Front	Back	Left	Right	Top	Bottom	Front / surface 10mm/2mm	back surface 10mm/2mm	left surface 10mm/2mm	Right surface 10mm/2mm	TOP surface 10mm/2mm	Bottom surface 10mm/2mm
													Max Ratio											Max Ratio					
													0.510	0.005	0.627	0.011	0.015							0.217	0.297	0.004	0.577	0.009	0.000
N260	128	0	1	Patch		2	3.21	3.74	0.01	7.63	0.03	0.04	0.421	0.001	0.490	0.004	0.005	1.38	1.42	0.01	4.03	0.02	0	0.18087	0.18611	0.00131	0.52818	0.00262	0
N260	130	2	1	Patch		2	4.06	4.5	0.02	8.95	0.04	0.11	0.454	0.002	0.503	0.004	0.012	1.56	1.81	0.02	3.52	0.03	0	0.1743	0.20223	0.00223	0.3933	0.00335	0
N260	132	4	1	Patch		4	3.9	3.91	0.02	8.1	0.04	0.1	0.481	0.002	0.483	0.005	0.012	1.33	1.43	0.01	3.59	0.04	0	0.1642	0.17654	0.00123	0.44321	0.00494	0
N260	134	6	1	Patch		4	2.97	3.45	0.01	6.11	0.04	0.03	0.486	0.002	0.565	0.007	0.005	1.05	1.44	0.01	2.95	0.03	0	0.17185	0.23568	0.00164	0.48282	0.00491	0
N260	136	8	1	Patch		4	7.33	9.28	0.03	15.34	0.04	0.18	0.478	0.002	0.605	0.003	0.012	3.28	4.55	0.03	6.92	0.03	0	0.21382	0.29661	0.00196	0.45111	0.00196	0
N260	137	9	1	Patch		4	6.02	6.72	0.06	15.45	0.06	0.21	0.390	0.004	0.435	0.004	0.014	2.23	2.83	0.05	7.73	0.06	0	0.14434	0.18317	0.00324	0.50032	0.00388	0
N260	138	10	1	Patch		4	5.52	9	0.04	16.03	0.12	0.17	0.344	0.002	0.561	0.007	0.011	2.31	3.33	0.03	6.56	0.1	0	0.1441	0.20774	0.00187	0.40923	0.00624	0
N260	139	11	1	Patch		4	6.78	7.82	0.03	16.06	0.05	0.14	0.422	0.002	0.487	0.003	0.009	2.57	3.17	0.02	7.16	0.05	0	0.16002	0.19738	0.00125	0.44583	0.00311	0
N260	144	16	1	Patch		4	5.3	8.3	0.04	16.1	0.06	0.23	0.329	0.002	0.516	0.004	0.014	2.17	3.05	0.03	6.89	0.05	0	0.13478	0.18944	0.00186	0.42795	0.00311	0
N260	145	17	1	Patch		4	4.46	7.18	0.04	14.9	0.07	0.12	0.299	0.003	0.482	0.005	0.008	1.45	2.99	0.03	7.89	0.07	0	0.09732	0.20067	0.00201	0.52953	0.0047	0
N260	146	18	1	Patch		4	6.77	8.43	0.04	15.95	0.07	0.13	0.424	0.003	0.529	0.004	0.008	2.84	3.45	0.03	6.99	0.06	0	0.17806	0.2163	0.00188	0.43824	0.00376	0
N260	150	22	1	Patch		8	10.04	14.13	0.06	26.32	0.1	0.34	0.381	0.002	0.537	0.004	0.013	5.1	6.22	0.05	10.35	0.07	0	0.19377	0.23632	0.0019	0.39324	0.00266	0
N260	151	23	1	Patch		8	10.17	12.21	0.07	26.09	0.05	0.39	0.390	0.003	0.468	0.002	0.015	4.52	5.37	0.06	13.84	0.05	0	0.17325	0.20583	0.0023	0.53047	0.00192	0
N260	152	24	1	Patch		8	9.27	10.31	0.11	25.83	0.17	0.16	0.359	0.004	0.399	0.007	0.006	3.28	4.72	0.09	14.1	0.16	0	0.12698	0.18273	0.00348	0.54588	0.00619	0
N260	153	25	1	Patch		8	9.7	15.55	0.07	24.79	0.27	0.11	0.391	0.003	0.627	0.011	0.004	4.32	5.63	0.06	11.53	0.23	0	0.17426	0.22711	0.00242	0.46511	0.00928	0
N260	154	26	1	Patch		8	10.58	15.85	0.08	25.38	0.14	0.25	0.417	0.003	0.625	0.006	0.010	4.78	6.45	0.06	10.31	0.11	0	0.18834	0.25414	0.00236	0.40623	0.00433	0
N260	160	32	1	Patch		8	11.52	12.4	0.07	27.07	0.06	0.41	0.426	0.003	0.458	0.002	0.015	5.52	5.81	0.06	12.53	0.06	0	0.20392	0.21463	0.00222	0.46287	0.00222	0
N260	161	33	1	Patch		8	8.37	11.93	0.13	25.14	0.11	0.19	0.333	0.005	0.475	0.004	0.008	3.27	4.47	0.1	14.51	0.1	0	0.13007	0.1778	0.00398	0.57717	0.00398	0
N260	162	34	1	Patch		8	10.17	10.31	0.08	24.79	0.21	0.17	0.410	0.003	0.416	0.008	0.007	4.48	3.98	0.07	11.35	0.19	0	0.18072	0.16055	0.00282	0.45785	0.00766	0
N260	163	35	1	Patch		8	12.56	15.19	0.08	24.61	0.23	0.16	0.510	0.003	0.617	0.009	0.007	5.33	5.17	0.06	10.16	0.19	0	0.21658	0.21008	0.00244	0.41284	0.00772	0

5 Power Density Characterization

5.1 PD design target

For Qualcomm SDX55/QTM525, the total device uncertainty for mmW radio is 2.1dB.

To account for the total design related uncertainty, PD_design_target needs to be:

$$PD\_design\_target < PD_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

With FCC 4cm2-averaged PD requirement of 10 W/m2 and the declared 2.1 dB device design related uncertainty, the PD_design_target for the EUT is determined as:

$$PD\_design\_target = 6\ W/m^2$$

5.2 Worst-case housing influence determination

For non-metal material, the material property cannot be accurately characterized at mmW frequencies to date. The estimated material property for the device housing is used in the simulation model, which could influence the accuracy in simulation for PD amplitude quantification. Since the housing influence on PD could vary from surface to surface where the EM field propagates through, the most underestimated surface is used to quantify the worst-case housing influence for conservative assessment.

Since the mmW antenna modules are placed at different location as shown in Figure 1-3, only material/housing surrounded has impact on EM field propagation, in turn impact on power density. Therefore, only adjacent surfaces for each QTM (as listed in Table 3-2) were used to evaluate the worst-case housing influence for each frequency band. For this EUT, when comparing a simulated 4cm2-avgeraged PD and measured 4 cm2-avgerated PD, the worst error introduced for each antenna module operating at each band when using the estimated material property in the simulation is highlighted yellow in Table 3-2. Thus, the worst-case housing influence, denoted as Δmin = Sim.PD – Meas.PD, is determined as:

Table 5-1: Δ_{min} for QTM0 and QTM1

Band	QTM	Δmin (dB)
N261	0	
	1	
N260	0	
	1	

Δmin represents the worst case where RF exposure is underestimated the most in simulation when using the estimated material property for glass/plastics of the housing. For conservative assessment, the Δmin is used as the worst-case factor and applied to all the beams in the corresponding beam group to determine input power limits in PD char for compliance (see Section 5.3 for details).

5.3 PD Char of the EUT

This section describes the PD Char generation that complies with the PD_design_target determined in Section 5.1 and is in compliance with the regulatory power density limit.

5.3.1 Scaling factor for SISO beams

Determine scaling factor for low, mid, high channel, $s(i)low\_or\_mid\_or\_high$ by:

$$s(i)_{low\_or\_mid\_or\_high} = \frac{PD\ design\ target}{sim.PD_{surface}(i)}, \ i \in SISO\ beams$$

Then finalize scaling factor, $\boldsymbol{s(i)}$, by using equation below:

$$\boldsymbol{s(i)} = min\{slow(i), smid\ (i), shigh\ (i)\}, i \in SISO\ beams$$

and this scaling factor, $\boldsymbol{s(i)}$, is applied to the input power at each antenna port to determine *input.power.limit* for SISO beams.

5.3.2 Scaling factor for MIMO beams

The relative phase between beam pair is not controlled in the EUT and could vary from run to run. Therefore, for beam pair, based on the simulation results, the worst-case scaling factor needs to be determined mathematically to ensure the compliance.

For beam pair, extract the E-fields and H-fields from the corresponding single beams at low, mid and high channel for each supported band and for all identified surfaces of the EUT.

For a given beam pair containing *beam_a* and *beam_b*, and for a given channel, let relative phase between *beam_a* and *beam_b* = ∅, and the total PD of the beam pair can be expressed as:

$$total\ PD\ (\emptyset) = \frac{1}{2}\sqrt{Re\{PD_x(\emptyset)\}^2 + Re\{PD_y(\emptyset)\}^2 + Re\{PD_z(\emptyset)\}^2}$$
$$= \frac{1}{2}Re\left\{\left(\overrightarrow{E_a} + \overrightarrow{E_b e^{j\omega\emptyset}}\right) \times \left(\overrightarrow{H_a} + \overrightarrow{H_b e^{j\omega\emptyset}}\right)^*\right\} \quad (4)$$

where, $PD_x(\emptyset)$, $PD_y(\emptyset)$ and $PD_z(\emptyset)$ are the three components of the $total\ PD\ (\emptyset)$; E_a and H_a are the extracted E-fields and H-fields of *beam_a*, while E_b and H_b are the extracted E-fields and H-fields of *beam_b*. Sweep ∅ with a 5° step from 0° to 360° to determine the worst-case, $\emptyset_{worstcase}$, which results in the highest $total\ PD\ (\emptyset)$ among all identified surfaces for this MIMO beam at this channel.

Follow the above procedure to determine $\varnothing_{worstcase}$ for all three channels of all bands supported, and obtain the scaling factor given by the below equation for low, mid and high channels:

$$s(i)_{low\_or\_mid\_or\_high} = \frac{PD\ design\ target}{total\ PD\ (\emptyset(i)_{worstcase})}, i \in MIMO\ beams$$

Similar to SISO beam, the worst-case scaling factor, $\boldsymbol{s(i)}$, for MIMO beam $\boldsymbol{i}$ is determined as:

$$\boldsymbol{s(i)} = min\{slow(i), smid\ (i), shigh\ (i)\}, i \in MIMO\ beams$$

and this scaling factor, $\boldsymbol{s(i)}$, is applied to the input power at each antenna port to determine *input.power.limit* for MIMO beams.

5.3.3 Input power limit when only mmW radio is ON

When only mmW radio is on, the power limit specifies the power level (denoted as *input.power.limit*) at antenna port that corresponds to PD_design_target for all the beams. The reference power used in simulation is 6dBm and denoted as *Pref*.

The logic to determine *input.power.limit* is as shown below:

If -TxAGC uncertainty at reference power level < *Δmin* < TxAGC uncertainty at reference power level, then

$$input.power.limit\ (i) = Pref + 10 * \log(s(i))\ ,\ i \in all\ beams \qquad (1)$$

else if *Δmin* < -TxAGC uncertainty at reference power level,

$$input.power.limit\ (i) = Pref + 10 * \log(s(i)) + (\Delta min + \text{TxAGC uncertainty at reference power level}),\ i \in all\ beams \qquad (2)$$

else if *Δmin* > TxAGC uncertainty at reference power level,

$$input.power.limit\ (i) = Pref + 10 * \log(s(i)) + (\Delta min - \text{TxAGC uncertainty at reference power level}),\ i \in all\ beams \qquad (3)$$

Following above logic, the *input.power.limit* for this EUT can be calculated as:

Table 5-2: power.limit calculation

Band#	QTM #	*Δmin* (dB)	*input.power.limit* (dBm)	Notes
N261	0	0.7	6dBm + 10log(s(i)) + (0.7-0.5)	Using Eq.3
	1	2.2	6dBm + 10log(s(i)) + (2.2-0.5)	Using Eq.3
N260	0	0.2	6dBm + 10log(s(i))	Using Eq.1
	1	1.2	6dBm + 10log(s(i)) + (1.2-0.5)	Using Eq.3

Note the ***Δmin* (dB)** used is the minimum of Hpol and Vpol per QTM per band (see Table 3-2).

Resulted *input.power.limit* for all beams is listed in Table below:

Table 5-3: *input.powet.limit*