Qualcomm Technologies, Inc.

ZJY Myra SUB6 mmW Power Density Simulation Report

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August 20, 2021

For additional information or to submit technical questions, go to: https://createpoint.qti.qualcomm.com

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Revision history

Revision	Date	Description
AA	August 2021	Initial release

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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 iterations 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).

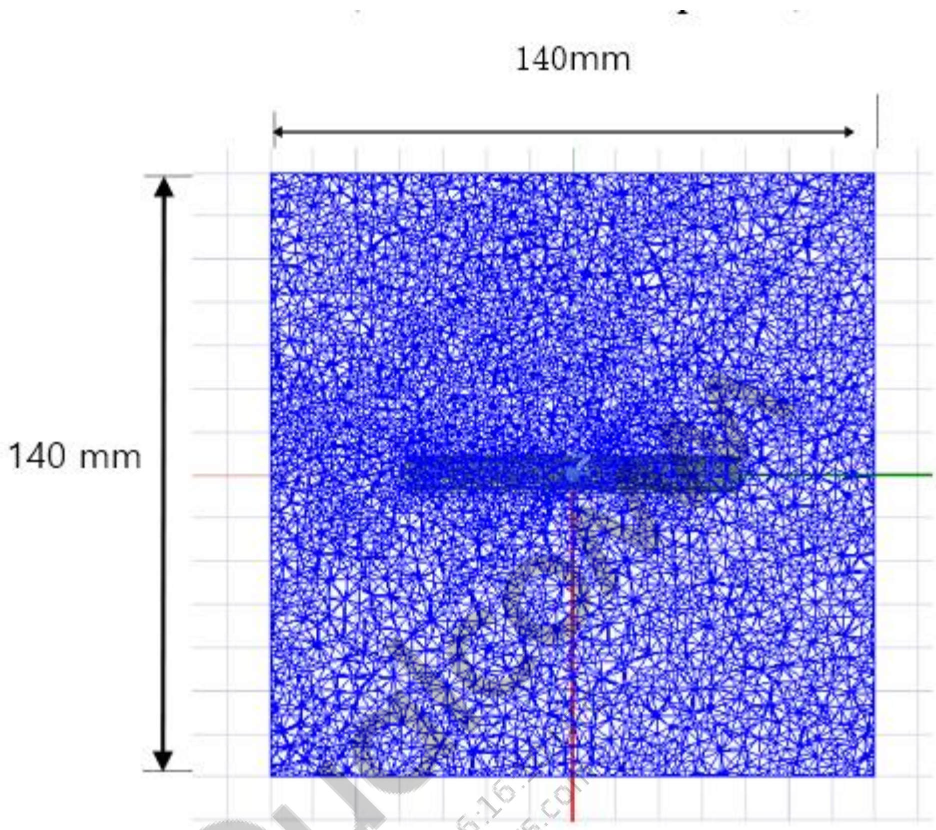


Figure 1-1: Example of HFSS mesh in a model of the device (Top view)

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).

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

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

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

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 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 left side and antennas are facing the left side of the device. QMT1# is placed on the right side and antennas are facing the right side.

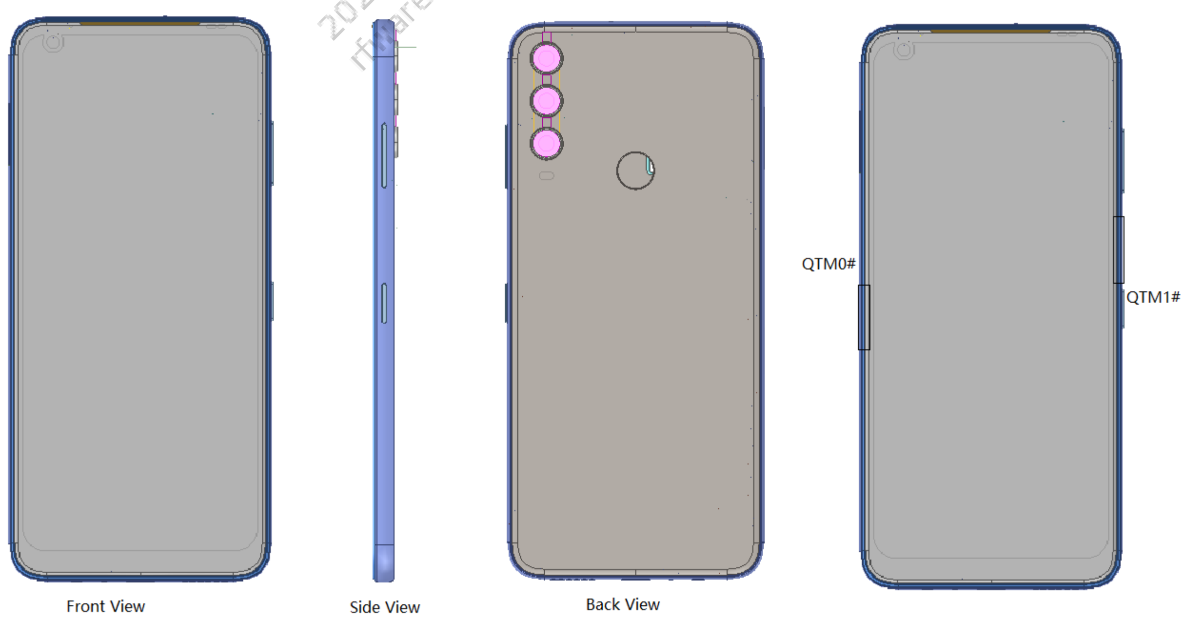


Figure 1-2: HFSS simulation model which is mounted two mmWave antenna modules

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.

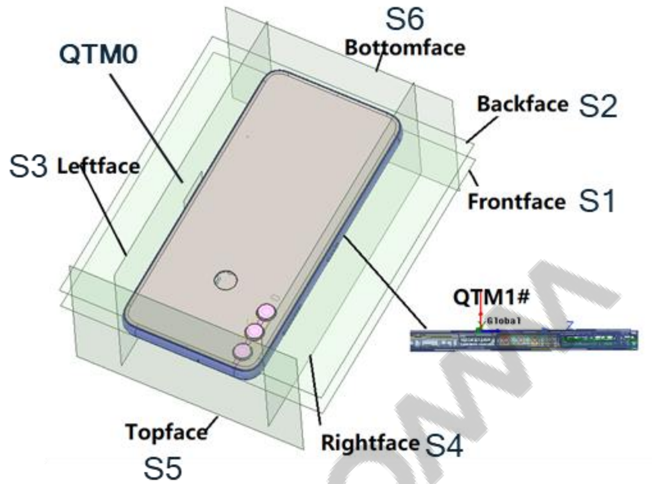
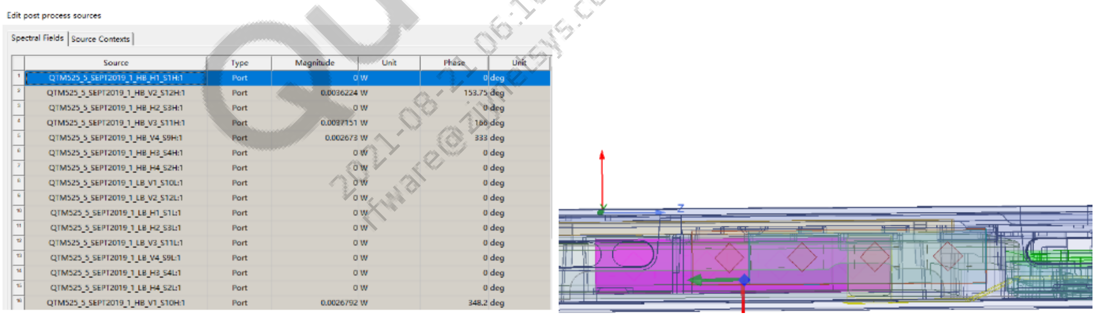


Figure 1-3: EUT simulation model

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	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	0	PATCH	1	132
261	5	1	PATCH	2	133
261	6	1	PATCH	2	134
261	7	1	PATCH	2	135
261	8	1	PATCH	2	136
261	9	0	PATCH	2	137
261	10	0	PATCH	2	138
261	11	0	PATCH	2	139
261	12	0	PATCH	2	140
261	13	1	PATCH	2	141
261	14	1	PATCH	2	142
261	15	1	PATCH	2	143
261	16	0	PATCH	2	144
261	17	0	PATCH	2	145
261	18	0	PATCH	2	146
261	19	1	PATCH	4	147
261	20	1	PATCH	4	148
261	21	1	PATCH	4	149
261	22	1	PATCH	4	150
261	23	1	PATCH	4	151
261	24	0	PATCH	4	152
261	25	0	PATCH	4	153

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

261	153	0	PATCH	4	25
261	154	0	PATCH	4	26
261	155	0	PATCH	4	27
261	156	0	PATCH	4	28
261	157	1	PATCH	4	29
261	158	1	PATCH	4	30
261	159	1	PATCH	4	31
261	160	1	PATCH	4	32
261	161	0	PATCH	4	33
261	162	0	PATCH	4	34
261	163	0	PATCH	4	35
261	164	0	PATCH	4	36

- N260 codebook

Band	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	0	PATCH	1	132
260	5	0	PATCH	1	133
260	6	1	PATCH	2	134
260	7	1	PATCH	2	135
260	8	1	PATCH	2	136
260	9	1	PATCH	2	137
260	10	0	PATCH	2	138
260	11	0	PATCH	2	139
260	12	0	PATCH	2	140
260	13	0	PATCH	2	141
260	14	1	PATCH	2	142
260	15	1	PATCH	2	143
260	16	1	PATCH	2	144
260	17	0	PATCH	2	145
260	18	0	PATCH	2	146
260	19	0	PATCH	2	147

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

260	146	0	PATCH	2	18
260	147	0	PATCH	2	19
260	148	1	PATCH	4	20
260	149	1	PATCH	4	21
260	150	1	PATCH	4	22
260	151	1	PATCH	4	23
260	152	1	PATCH	4	24
260	153	0	PATCH	4	25
260	154	0	PATCH	4	26
260	155	0	PATCH	4	27
260	156	0	PATCH	4	28
260	157	0	PATCH	4	29
260	158	1	PATCH	4	30
260	159	1	PATCH	4	31
260	160	1	PATCH	4	32
260	161	1	PATCH	4	33
260	162	0	PATCH	4	34
260	163	0	PATCH	4	35
260	164	0	PATCH	4	36
260	165	0	PATCH	4	37

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

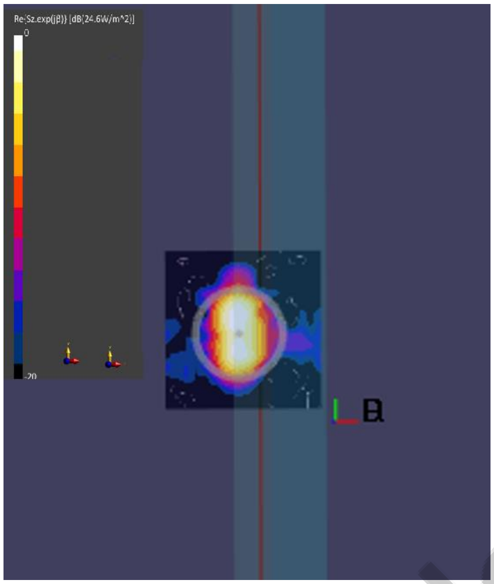
The simulation and measurement were performed at 2mm evaluation distance. The simulated and measured 4cm^2 averaged PD results are shown in Table 3-2.

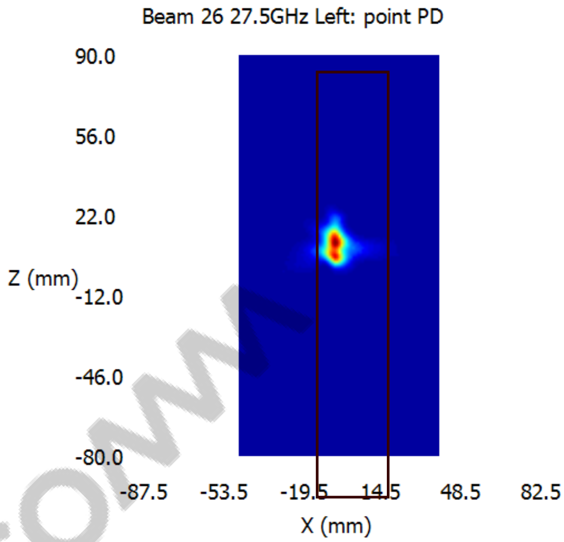
Table 3-2: Simulated and measured 4cm² averaged PD comparison

measured PD / simulated PD at 6dBm input power									
Band	**Ant Type**	**Module**	**Ant Pol**	**beam ID**	**Surface**	**Channel**	**Measured**	**Simulated**	**Delta (dB) (Simulated-Measured)**
n261	Patch	QTM0	AG0(V)	26	Leftface	Low	8. 57	**18**	**3.2**
					Frontface	Low	3. 8	**7.71**	**3.1**
					Backface	Low	5. 73	**7.9**	**1.4**
			AG1(H)	155	Leftface	Mid	8. 8	**16.99**	**2.9**
					Frontface	Mid	4. 06	**7.51**	**2.7**
					Backface	Mid	6. 14	**7.16**	**0.7**
		QTM1	AG0(V)	30	Rightface	Low	8. 42	**17.08**	**3.1**
					Frontface	Low	3. 13	**8.36**	**4.1**
					Backface	Low	3. 65	**6.83**	**3.4**
			AG1(H)	158	RightFace	Mid	8. 53	**15.36**	**2.6**
					Frontface	Mid	4. 16	**6.97**	**2.2**
					Backface	Mid	**3.75**	**6.36**	**2.3**
n260	Patch	QTM0	AG0(V)	29	Leftface	Mid	**9.17**	**18.31**	**3.0**
					Frontface	Mid	**2.54**	**4.95**	**2.9**
					Backface	Mid	**2.65**	**5.67**	**3.3**
			AG1(H)	157	Leftface	Mid	**6.4**	**16.69**	**4.2**
					Frontface	Mid	**2.65**	**4.85**	**2.6**
					Backface	Mid	**4.96**	**5.15**	**0.2**
		QTM1	AG0(V)	24	Rightface	Mid	**8.63**	**15.46**	**2.5**
					Frontface	Mid	**2.79**	**5.55**	**3.0**
					Backface	Mid	2. 64	**5.61**	**3.3**
			AG1(H)	161	Rightface	Mid	6. 47	**14.52**	**3.5**
					Frontface	Mid	2. 74	**4.77**	**2.4**
					Backface	Mid	3. 92	**5.17**	**1.2**

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.

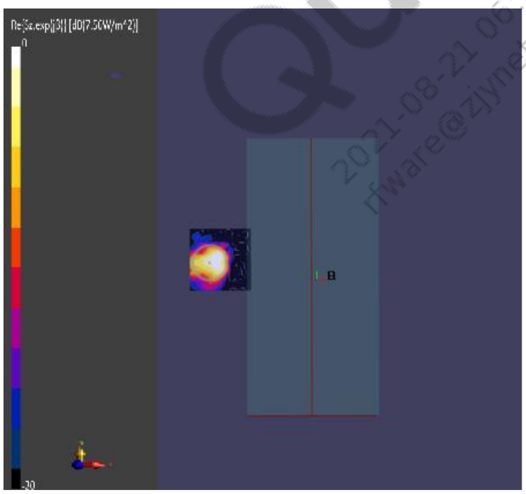
- N261 QTM0: Low channel, Beam26, Left face, Point PD

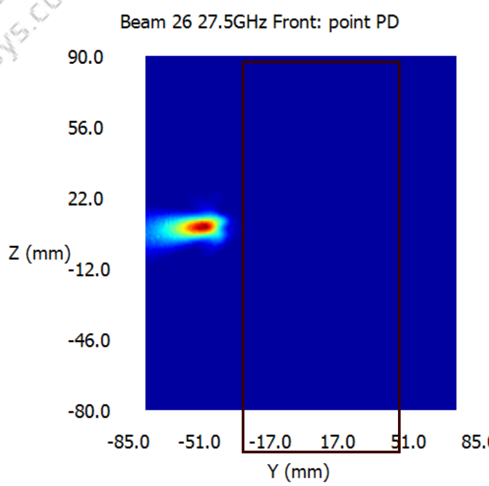




(a) Measurement (b) Simulation

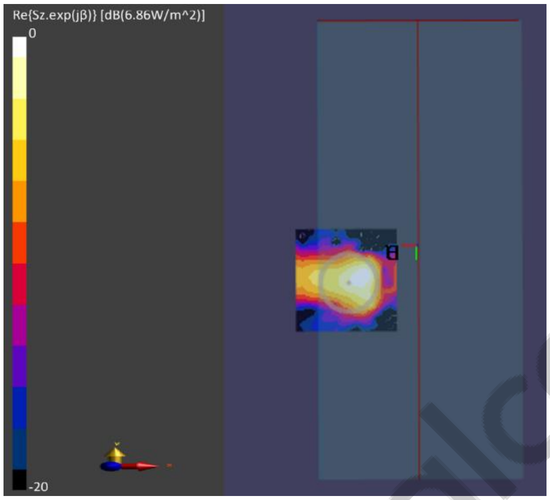
- N261 QTM0: Low channel, Beam26, Front face, Point PD



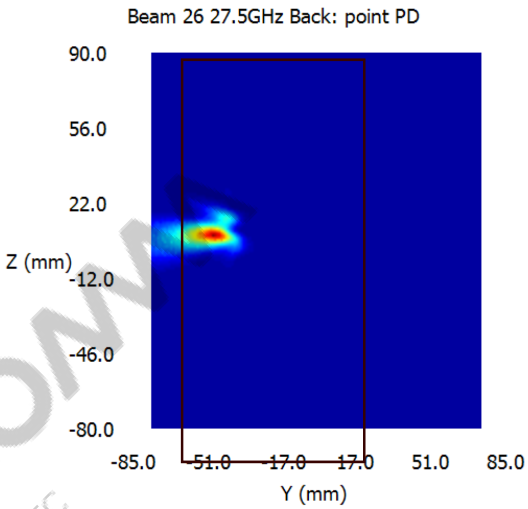


(a) Measurement (b) Simulation

N261 QTM0: Low channel, Beam26, Back face, Point PD

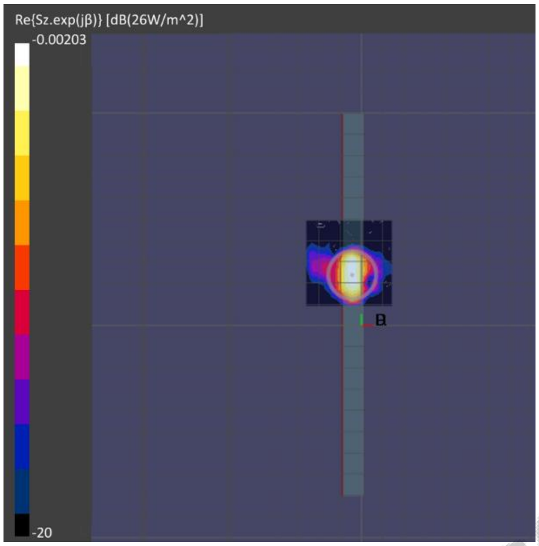


(a) Measurement

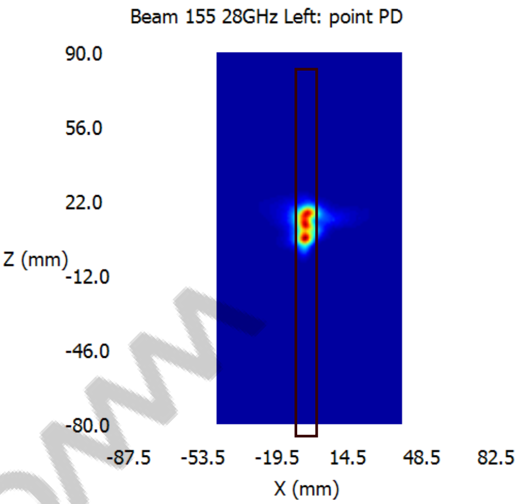


(b) Simulation

- N261 QTM0: Middle channel, Beam155, Left face, Point PD

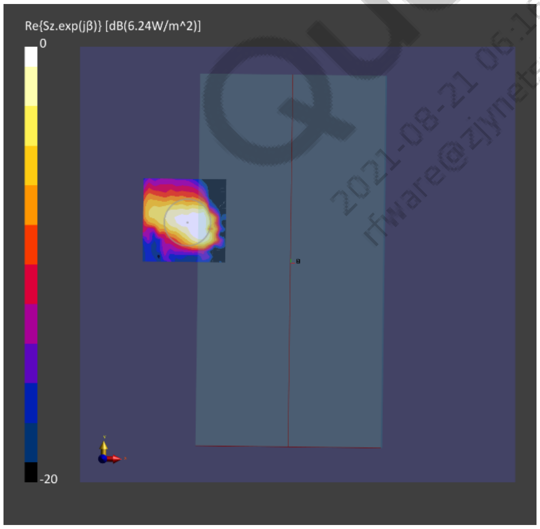


(a) Measurement

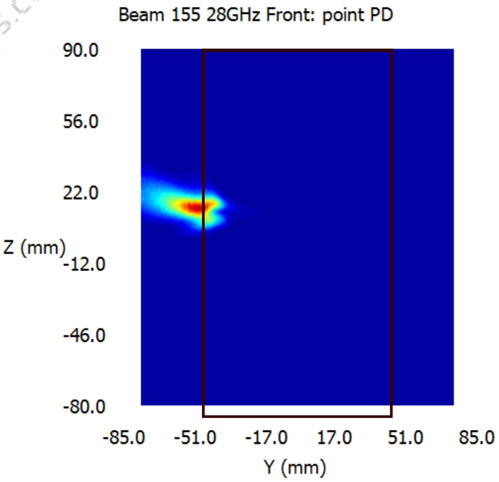


(b) Simulation

- N261 QTM0: Middle channel, Beam155, Front face, Point PD

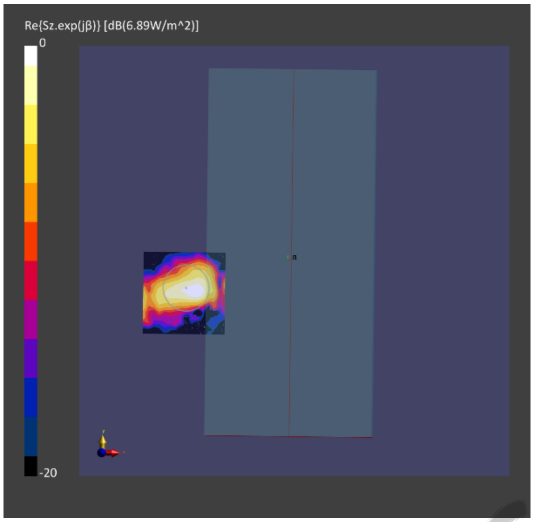


(a) Measurement

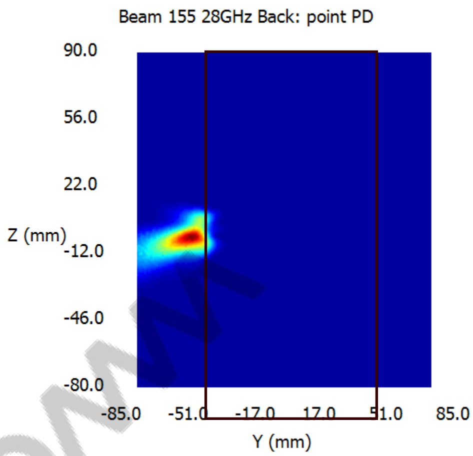


(b) Simulation

- N261 QTM0: Middle channel, Beam155, Back face, Point PD

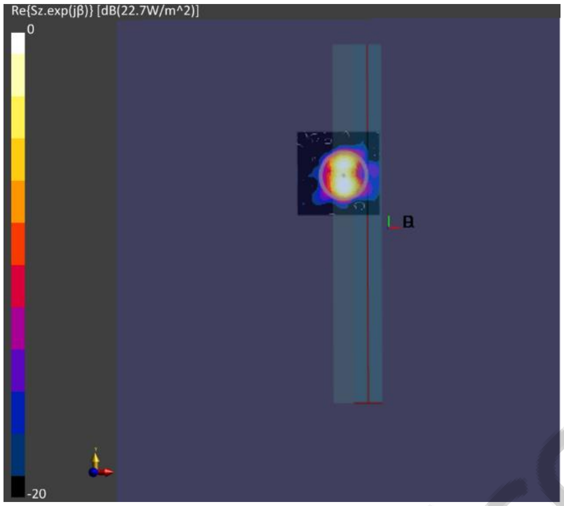


(a) Measurement

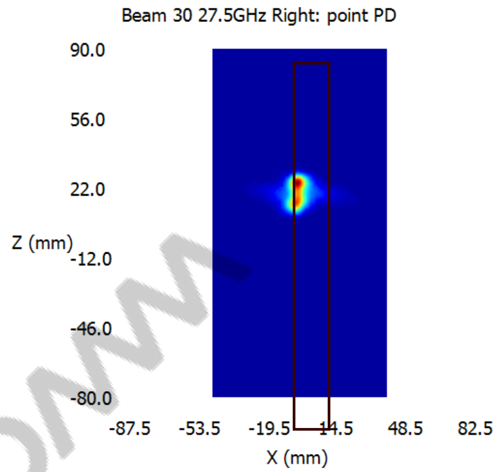


(b) Simulation

- N261 QTM1: Low channel, Beam30, right face, Point PD

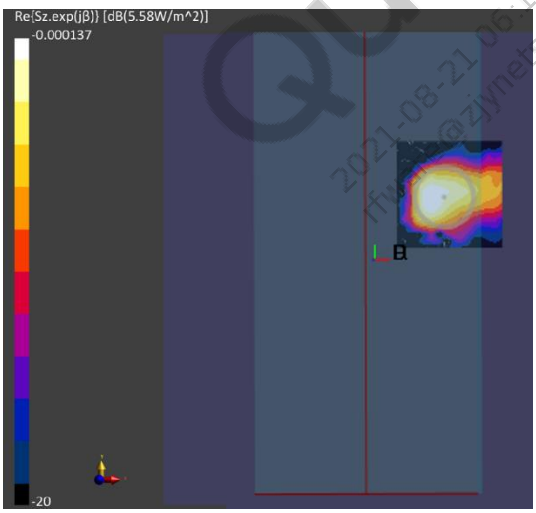


(a) Measurement

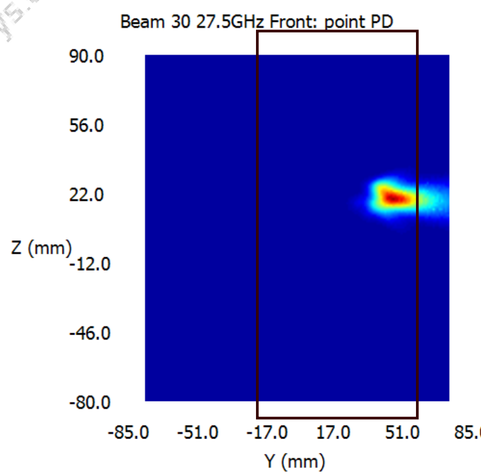


(b) Simulation

- N261 QTM1: Low channel, Beam30, Front face, Point PD

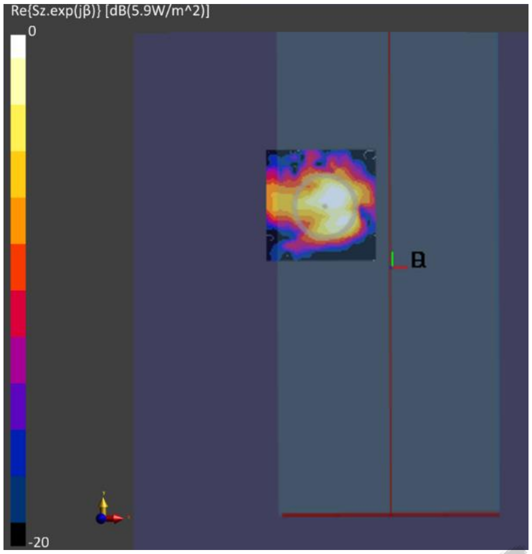


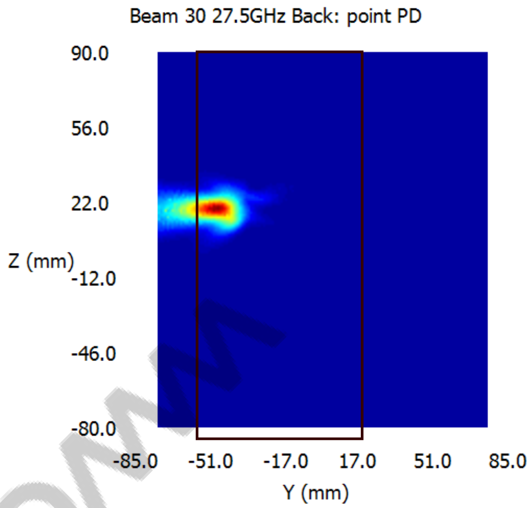
(a) Measurement



(b) Simulation

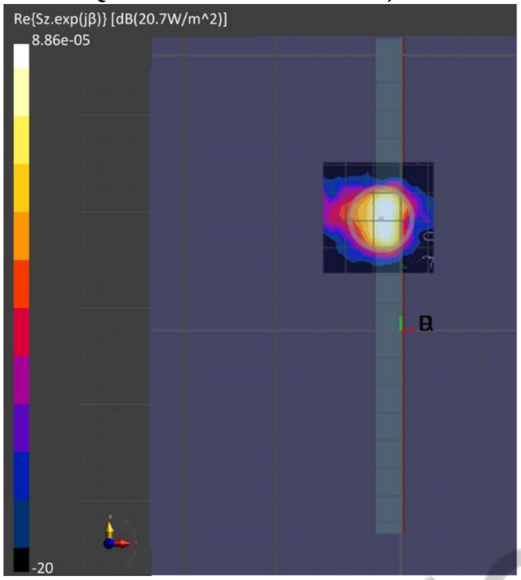
- N261 QTM1: Low channel, Beam30, Back face, Point PD



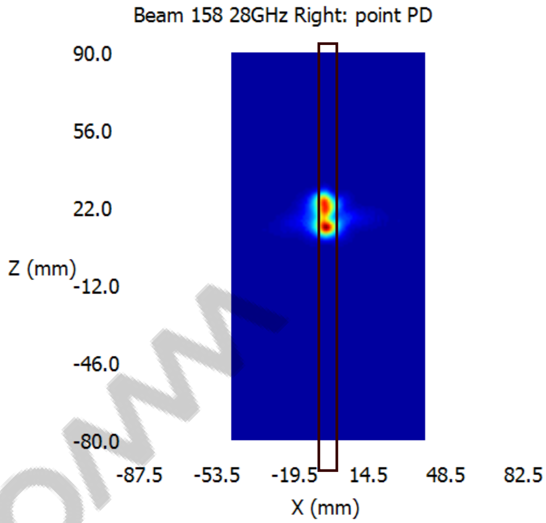


(a) Measurement (b) Simulation

- N261 QTM1: Middle channel, Beam158, Right face, Point PD

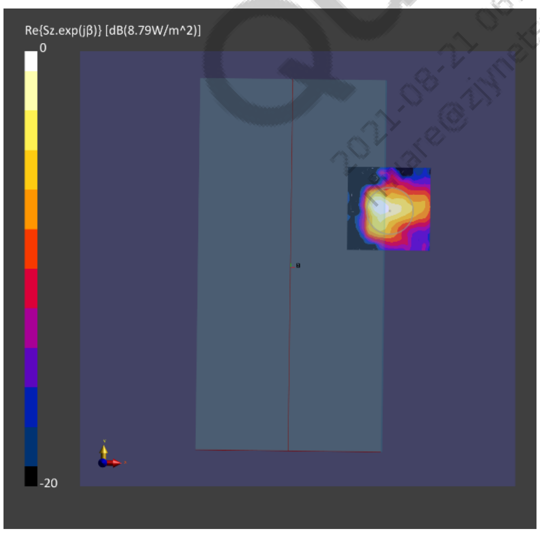


(a) Measurement

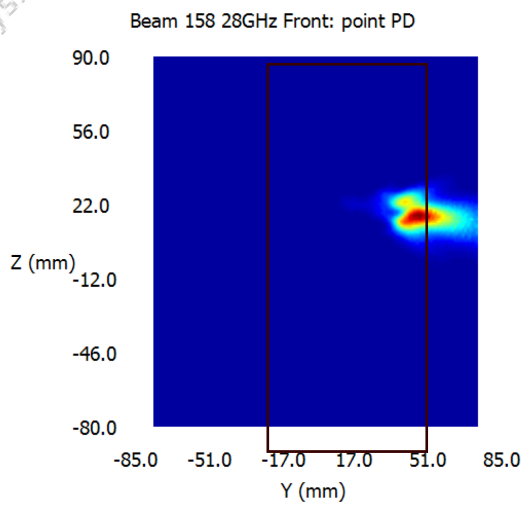


(b) Simulation

- N261 QTM1: Middle channel, Beam158, Front face, Point PD

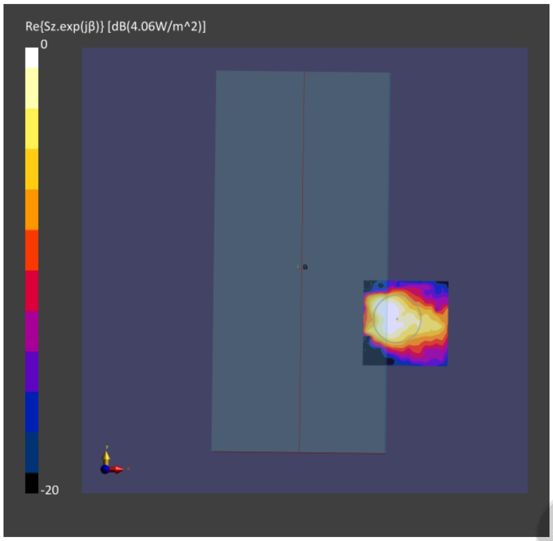


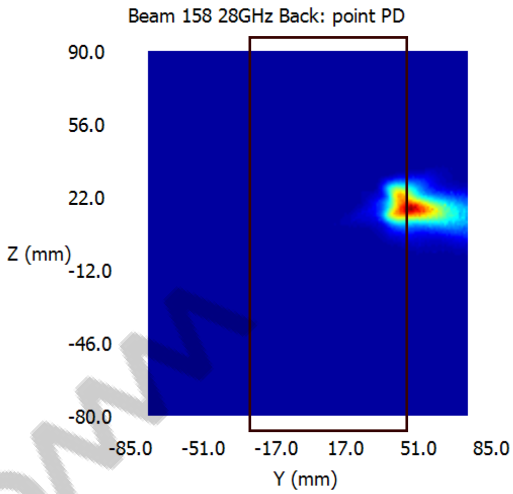
(a) Measurement



(b) Simulation

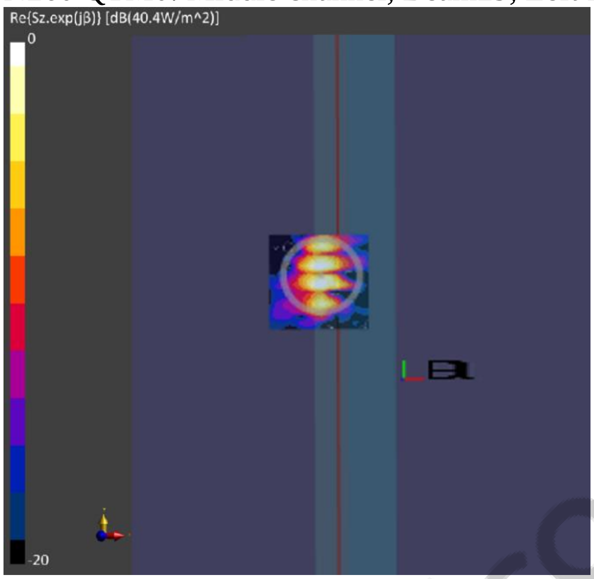
- N261 QTM1: Middle channel, Beam158, Back face, Point PD

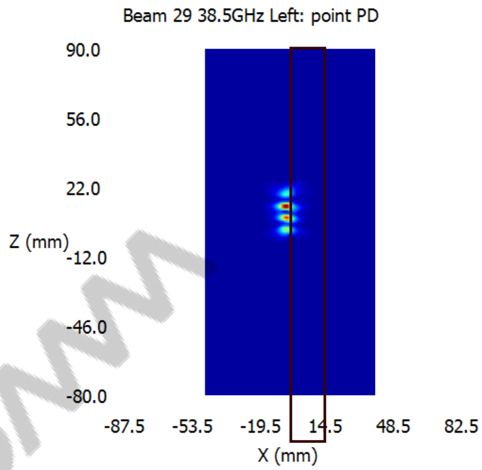




(a) Measurement (b) Simulation

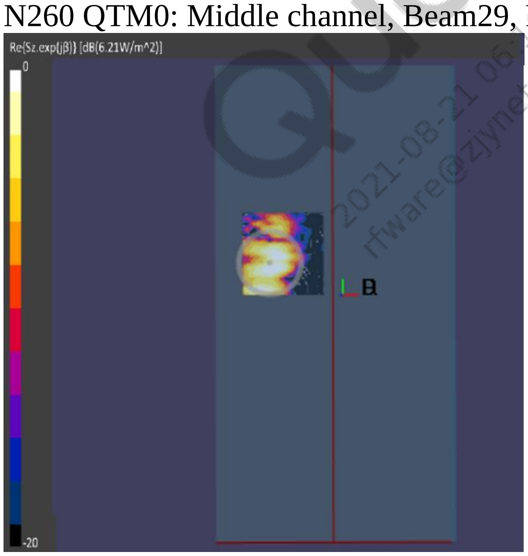
- N260 QTM0: Middle channel, Beam29, Left face, Point PD

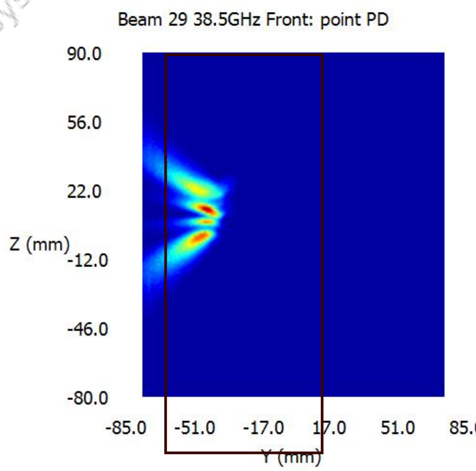




(a) Measurement (b) Simulation

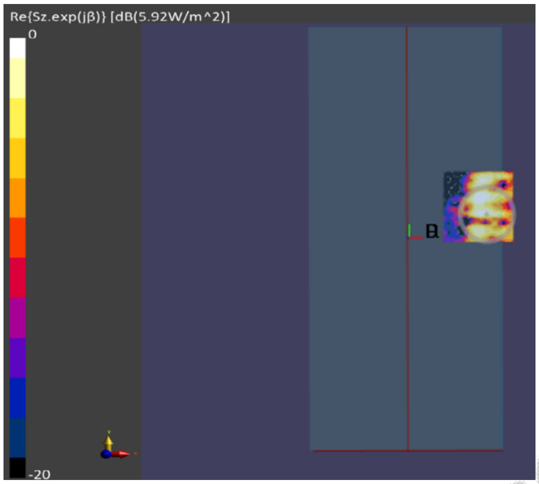
- N260 QTM0: Middle channel, Beam29, Front face, Point PD



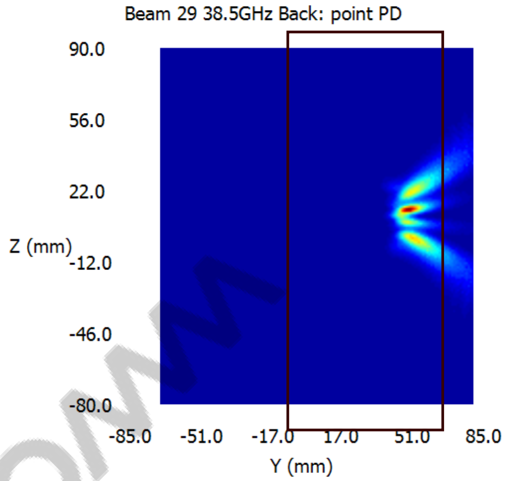


(a) Measurement (b) Simulation

- N260 QTM0: Middle channel, Beam29, Back face, Point PD

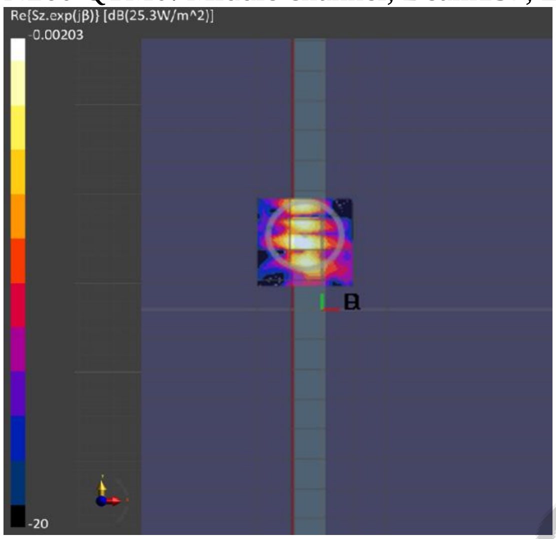


(a) Measurement

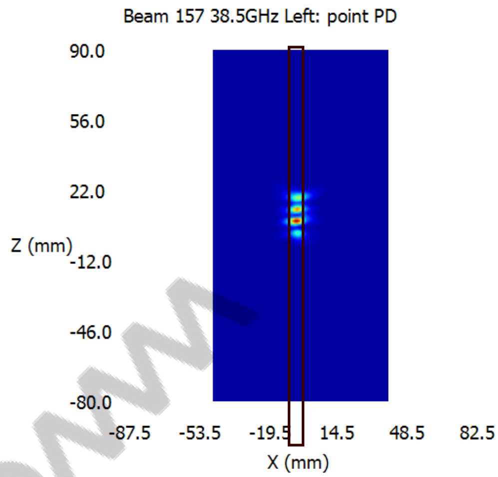


(b) Simulation

- N260 QTM0: Middle channel, Beam157, Left face, Point PD

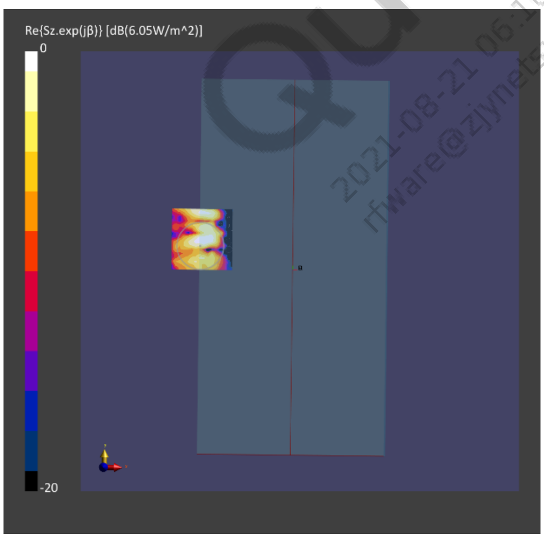


(a) Measurement

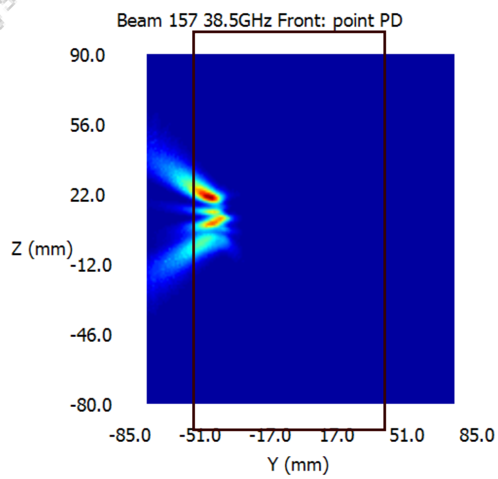


(b) Simulation

- N260 QTM0: Middle channel, Beam157, Front face, Point PD

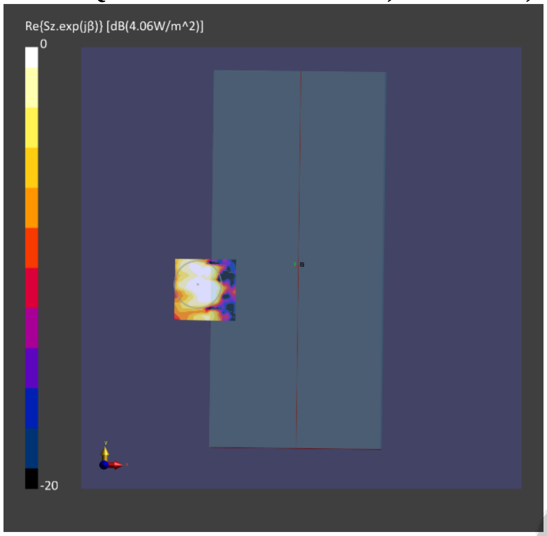


(a) Measurement

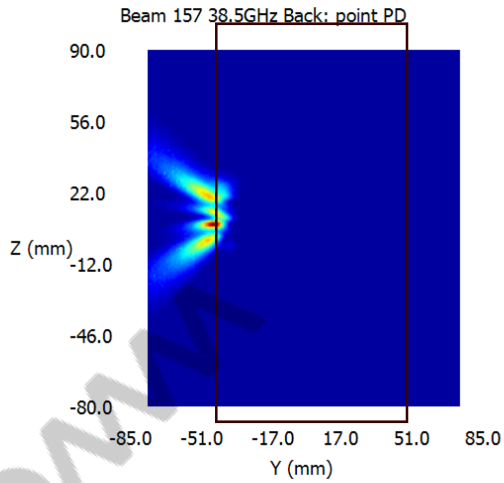


(b) Simulation

- N260 QTM0: Middle channel, Beam157, Back face, Point PD

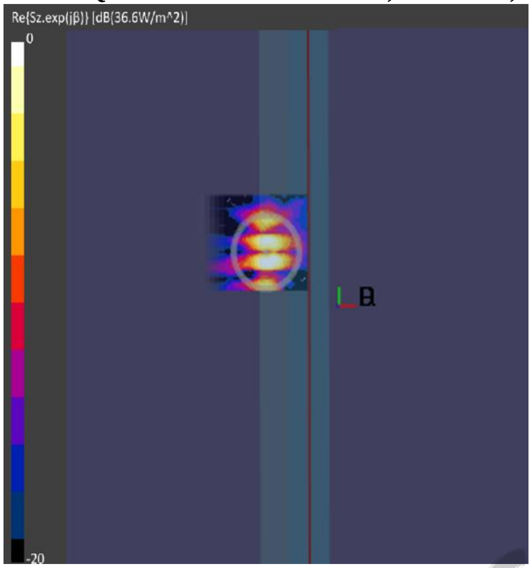


(a) Measurement

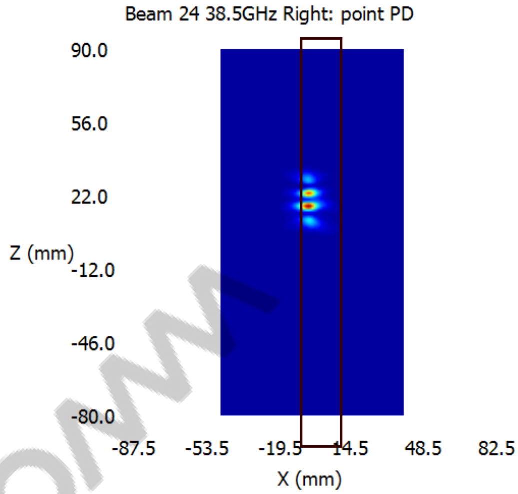


(b) Simulation

- N260 QTM1: Middle channel, Beam24, Right face, Point PD

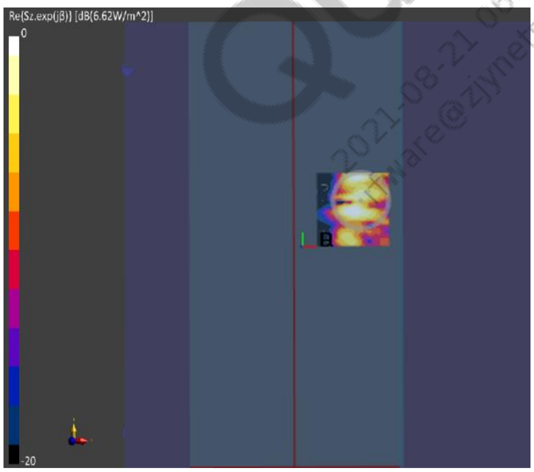


(a) Measurement

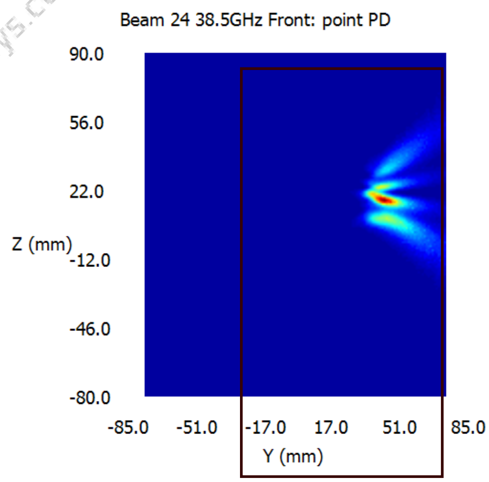


(b) Simulation

- N260 QTM1: Middle channel, Beam24, Front face, Point PD

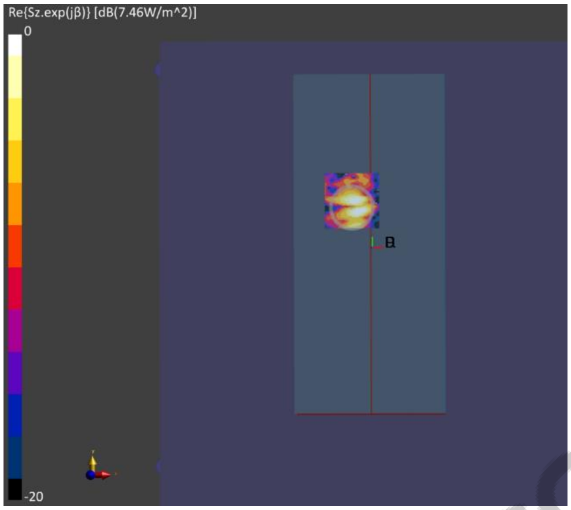


(a) Measurement

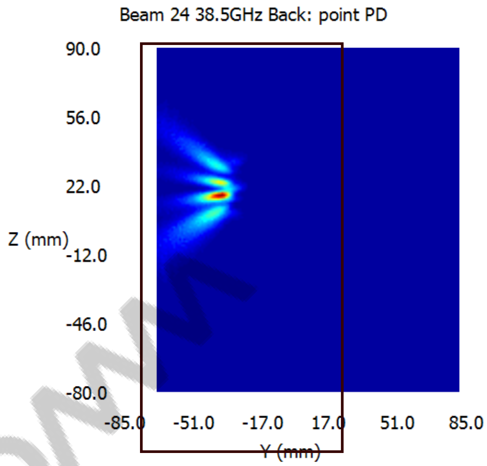


(b) Simulation

- N260 QTM1: Middle channel, Beam24, Back face, Point PD

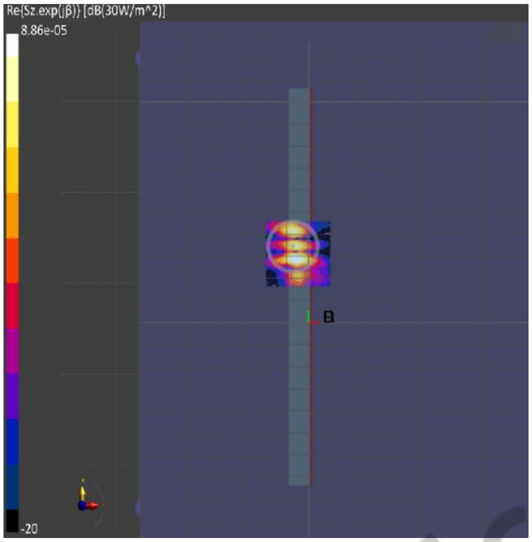


(a) Measurement

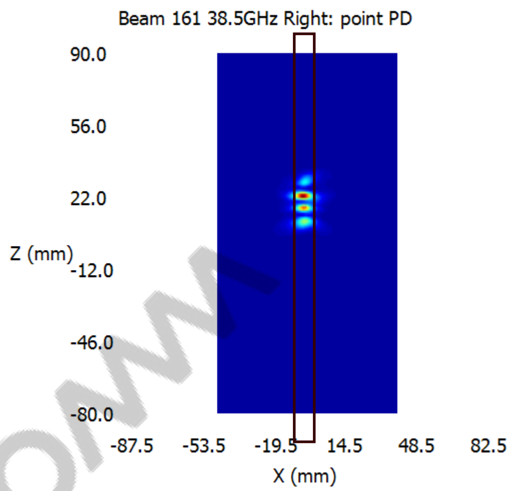


(b) Simulation

- N260 QTM1: Middle channel, Beam161, Right face, Point PD

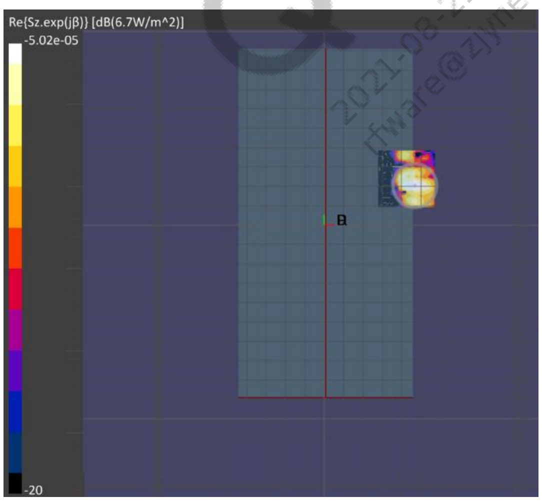


(a) Measurement

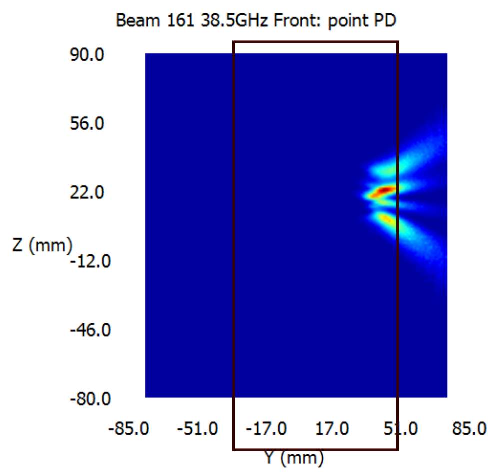


(b) Simulation

- N260 QTM1: Middle channel, Beam161, Front face, Point PD

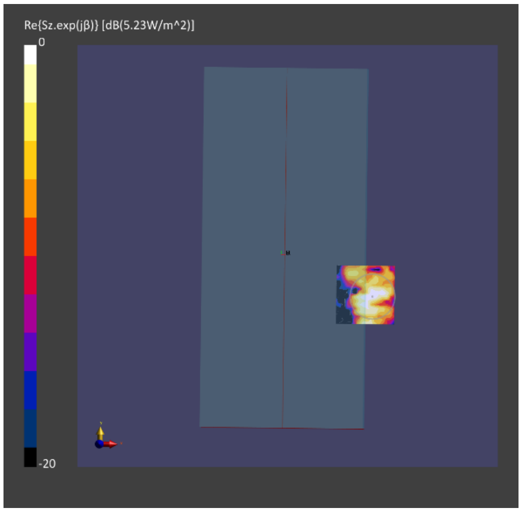


(a) Measurement

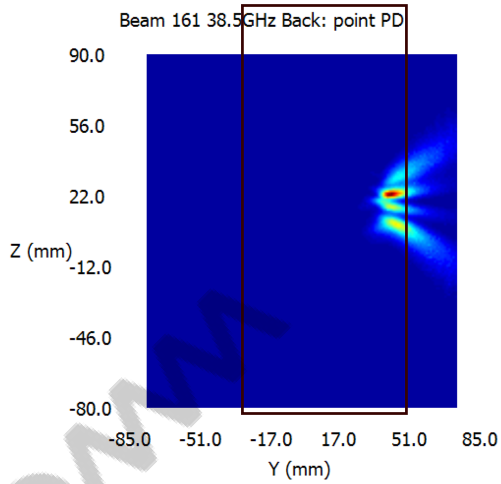


(b) Simulation

N260 QTM1: Middle channel, Beam161, Back face, Point PD



(a) Measurement



(b) Simulation

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 in Part 1.

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

											Max Ratio											Max Ratio					
											0.516	0.002	0.454	0.014	0.009							0.240	0.214	0.572	0.002	0.014	0.008
n261Mid ch.(27.5GHz)					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						Front /	Right	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	1	0	Patch	1	1.27	1.45	3.77	0	0.02	0.01	0.337	0.000	0.385	0.005	0.003	0.46	0.57	1.73	0.000	0.020	0.010	0.12202	0.15119	0.45889	0.000	0.005	0.003
N261	3	0	Patch	1	1.91	1.74	5.2	0	0.02	0.01	0.367	0.000	0.335	0.004	0.002	0.68	0.68	2.33	0.000	0.020	0.010	0.13077	0.13077	0.44808	0.000	0.004	0.002
N261	4	0	Patch	1	1.72	1.76	4.88	0.01	0.01	0.02	0.352	0.002	0.361	0.002	0.004	0.67	0.65	2.09	0.000	0.010	0.020	0.1373	0.1332	0.42828	0.000	0.002	0.004
N261	9	0	Patch	2	2.33	2.44	7.75	0.01	0.05	0.04	0.301	0.001	0.315	0.006	0.005	0.84	1.06	2.99	0.000	0.040	0.030	0.10839	0.13677	0.38581	0.000	0.005	0.004
N261	10	0	Patch	2	2.72	3.57	8.44	0.01	0.03	0.03	0.322	0.001	0.423	0.004	0.004	1.11	1.59	4.15	0.010	0.020	0.020	0.13152	0.18839	0.49171	0.001	0.002	0.002
N261	11	0	Patch	2	4.28	4.03	10.13	0.01	0.02	0.02	0.423	0.001	0.398	0.002	0.002	1.87	1.73	5.47	0.010	0.020	0.020	0.1846	0.17078	0.53998	0.001	0.002	0.002
N261	12	0	Patch	2	4.06	3.26	9.37	0.01	0.05	0.01	0.433	0.001	0.348	0.005	0.001	1.8	1.38	4.72	0.010	0.050	0.010	0.1921	0.14728	0.50374	0.001	0.005	0.001
N261	16	0	Patch	2	3.71	3.52	9.74	0.01	0.04	0.03	0.381	0.001	0.361	0.004	0.003	1.63	1.49	4.75	0.010	0.040	0.020	0.16735	0.15298	0.48768	0.001	0.004	0.002
N261	17	0	Patch	2	4.48	4.44	10.63	0.01	0.01	0.01	0.421	0.001	0.418	0.001	0.001	1.95	1.9	5.91	0.010	0.010	0.010	0.18344	0.17874	0.55597	0.001	0.001	0.001
N261	18	0	Patch	2	4.05	3.7	9.54	0.01	0.04	0.01	0.425	0.001	0.388	0.004	0.001	1.77	1.59	5.09	0.010	0.040	0.010	0.18553	0.16667	0.53354	0.001	0.004	0.001
N261	24	0	Patch	2	4.5	4.19	11.98	0.02	0.09	0.11	0.376	0.002	0.350	0.008	0.009	2.08	1.68	5.28	0.020	0.090	0.090	0.17362	0.14023	0.44073	0.002	0.008	0.008
N261	25	0	Patch	4	6.35	7.27	16.71	0.02	0.04	0.04	0.380	0.001	0.435	0.002	0.002	3.04	3.31	8.81	0.020	0.040	0.030	0.18193	0.19808	0.52723	0.001	0.002	0.002
N261	26	0	Patch	4	7.71	7.9	18	0.02	0.03	0.01	0.428	0.001	0.439	0.002	0.001	3.98	3.68	10.26	0.020	0.020	0.010	0.22111	0.20444	0.57	0.001	0.001	0.001
N261	27	0	Patch	4	7.33	7.75	17.77	0.02	0.03	0.01	0.412	0.001	0.436	0.002	0.001	3.73	3.79	10.02	0.010	0.030	0.010	0.2099	0.21328	0.56387	0.001	0.002	0.001
N261	28	0	Patch	4	7.25	5.34	15.74	0.02	0.1	0.04	0.461	0.001	0.339	0.006	0.003	3.53	2.61	7.69	0.010	0.100	0.040	0.22427	0.16582	0.48856	0.001	0.006	0.003
N261	33	0	Patch	4	5.6	5.72	14.42	0.03	0.06	0.06	0.388	0.002	0.397	0.004	0.004	2.63	2.53	7.27	0.020	0.060	0.050	0.18239	0.17545	0.50416	0.001	0.004	0.003
N261	34	0	Patch	4	7.06	8.12	17.89	0.03	0.04	0.03	0.395	0.002	0.454	0.002	0.002	3.5	3.82	9.78	0.020	0.030	0.030	0.19564	0.21353	0.54667	0.001	0.002	0.002
N261	35	0	Patch	4	7.59	7.73	17.6	0.02	0.01	0.01	0.431	0.001	0.439	0.001	0.001	3.89	3.7	10.07	0.010	0.010	0.010	0.22102	0.21023	0.57216	0.001	0.001	0.001
N261	36	0	Patch	4	7.48	6.8	17.36	0.02	0.03	0.02	0.431	0.001	0.392	0.002	0.001	3.74	3.32	9.45	0.010	0.030	0.020	0.21544	0.19124	0.54435	0.001	0.002	0.001
N261	129	0	Patch	1	1.81	1.17	4.18	0.01	0.05	0.01	0.433	0.002	0.280	0.012	0.002	0.69	0.43	1.61	0.010	0.050	0.010	0.16507	0.10287	0.38517	0.002	0.012	0.002
N261	131	0	Patch	1	1.77	1.63	4.66	0	0.02	0.01	0.380	0.000	0.350	0.004	0.002	0.68	0.58	2.18	0.000	0.020	0.010	0.14592	0.12446	0.46781	0.000	0.004	0.002
N261	132	0	Patch	2	1.79	1.51	4.63	0	0.01	0.01	0.387	0.000	0.326	0.002	0.002	0.67	0.58	2.08	0.000	0.010	0.010	0.14471	0.12527	0.44924	0.000	0.002	0.002
N261	137	0	Patch	2	2.99	1.87	7.31	0.01	0.1	0.04	0.409	0.001	0.256	0.014	0.005	1.25	0.73	2.75	0.010	0.100	0.040	0.171	0.09986	0.3762	0.001	0.014	0.005
N261	138	0	Patch	2	4.3	2.49	8.34	0.02	0.04	0.02	0.516	0.002	0.299	0.005	0.002	1.97	1	4.33	0.010	0.040	0.020	0.23621	0.1199	0.51918	0.001	0.005	0.002
N261	139	0	Patch	2	3.96	3.98	9.71	0.01	0.02	0.02	0.408	0.001	0.410	0.002	0.002	1.78	1.72	5.36	0.010	0.020	0.020	0.18332	0.17714	0.55201	0.001	0.002	0.002
N261	140	0	Patch	2	2.35	2.33	7.57	0.01	0.03	0.03	0.310	0.001	0.308	0.004	0.004	0.97	0.98	3.16	0.000	0.030	0.030	0.12814	0.12946	0.41744	0.000	0.004	0.004
N261	144	0	Patch	2	3.91	3.39	9.09	0.01	0.02	0.02	0.430	0.001	0.373	0.002	0.002	1.72	1.38	4.76	0.000	0.020	0.020	0.18922	0.15182	0.52365	0.000	0.002	0.002
N261	145	0	Patch	2	4.72	3.07	9.34	0.02	0.01	0.01	0.505	0.002	0.329	0.001	0.001	2.19	1.24	5.17	0.010	0.010	0.010	0.23448	0.13276	0.55353	0.001	0.001	0.001
N261	146	0	Patch	2	3.71	3.4	9.4	0.01	0.07	0.02	0.395	0.001	0.362	0.007	0.002	1.63	1.48	4.41	0.010	0.070	0.020	0.1734	0.15745	0.46915	0.001	0.007	0.002
N261	152	0	Patch	2	6.72	4.08	13.02	0.02	0.07	0.08	0.516	0.002	0.313	0.005	0.006	2.93	1.72	6.14	0.010	0.070	0.070	0.22504	0.1321	0.47158	0.001	0.005	0.005
N261	153	0	Patch	4	7.55	5.03	15.28	0.02	0.05	0.03	0.494	0.001	0.329	0.003	0.002	3.67	2.19	8.01	0.020	0.040	0.030	0.24018	0.14332	0.52421	0.001	0.003	0.002
N261	154	0	Patch	4	8.05	6.78	17.28	0.03	0.01	0.01	0.466	0.002	0.392	0.001	0.001	4.05	3.19	9.79	0.020	0.010	0.010	0.23438	0.18461	0.56655	0.001	0.001	0.001
N261	155	0	Patch	4	8	7.44	17.92	0.03	0.04	0.01	0.446	0.002	0.415	0.002	0.001	4.02	3.52	10.21	0.030	0.040	0.010	0.22433	0.19643	0.56975	0.002	0.002	0.001
N261	156	0	Patch	4	5.63	5.4	13.99	0.02	0.08	0.06	0.402	0.001	0.386	0.006	0.004	2.72	2.46	7.26	0.020	0.080	0.050	0.19442	0.17584	0.51894	0.001	0.006	0.004
N261	161	0	Patch	4	7.21	4.59	14.15	0.02	0.05	0.06	0.510	0.001	0.324	0.004	0.004	3.27	1.96	7.02	0.010	0.050	0.050	0.2311	0.13852	0.49611	0.001	0.004	0.004
N261	162	0	Patch	4	7.73	5.84	16.43	0.03	0.04	0.02	0.470	0.002	0.355	0.002	0.001	3.87	2.66	8.99	0.020	0.040	0.020	0.23554	0.1619	0.54717	0.001	0.002	0.001
N261	163	0	Patch	4	8.19	7.01	17.49	0.04	0.02	0	0.468	0.002	0.401	0.001	0.000	4.14	3.3	9.98	0.030	0.020	0.000	0.23671	0.18868	0.57061	0.002	0.001	0.000
N261	164	0	Patch	4	6.75	7.14	16.37	0.02	0.05	0.03	0.412	0.001	0.436	0.003	0.002	3.25	3.3	9.3	0.020	0.050	0.030	0.19853	0.20159	0.56811	0.001	0.003	0.002

- QTM0 N261 Low channel MIMO

												Max Ratio											Max Ratio					
												0.499	0.002	0.462	0.016	0.009							0.249	0.212	0.625	0.002	0.015	0.008
N261	129	1	0	Patch	2	3.78	3.32	8.77	0.02	0.12	0.02	0.431	0.002	0.379	0.014	0.002	1.390	1.350	3.680	0.010	0.110	0.020	0.158	0.154	0.420	0.001	0.013	0.002
N261	131	3	0	Patch	2	4.66	4.4	10.49	0.01	0.05	0.05	0.444	0.001	0.419	0.005	0.005	1.750	1.720	4.720	0.010	0.050	0.040	0.167	0.164	0.450	0.001	0.005	0.004
N261	132	4	0	Patch	2	4.55	4.32	10.09	0.02	0.04	0.05	0.451	0.002	0.428	0.004	0.005	1.780	1.670	4.340	0.010	0.040	0.050	0.176	0.166	0.430	0.001	0.004	0.005
N261	137	9	0	Patch	4	6.49	5.72	16.61	0.03	0.26	0.12	0.391	0.002	0.344	0.016	0.007	2.710	2.610	6.320	0.020	0.250	0.110	0.163	0.157	0.380	0.001	0.015	0.007
N261	138	10	0	Patch	4	8.4	8.15	17.65	0.04	0.11	0.07	0.476	0.002	0.462	0.006	0.004	3.830	3.740	8.850	0.040	0.110	0.060	0.217	0.212	0.501	0.002	0.006	0.003
N261	139	11	0	Patch	4	9.07	8.53	20.7	0.02	0.05	0.06	0.438	0.001	0.412	0.002	0.003	4.030	3.580	12.320	0.010	0.050	0.050	0.195	0.173	0.595	0.000	0.002	0.002
N261	140	12	0	Patch	4	7.19	5.61	15.78	0.02	0.11	0.05	0.456	0.001	0.356	0.007	0.003	3.120	2.420	8.470	0.010	0.100	0.050	0.198	0.153	0.537	0.001	0.006	0.003
N261	144	16	0	Patch	4	8.45	7.11	19.73	0.02	0.09	0.08	0.428	0.001	0.360	0.005	0.004	3.650	2.940	10.230	0.020	0.090	0.070	0.185	0.149	0.518	0.001	0.005	0.004
N261	145	17	0	Patch	4	10.04	8.22	20.14	0.03	0.04	0.03	0.499	0.001	0.408	0.002	0.001	4.760	3.350	11.760	0.020	0.040	0.020	0.236	0.166	0.584	0.001	0.002	0.001
N261	146	18	0	Patch	4	9.65	9.02	20.45	0.03	0.16	0.04	0.472	0.001	0.441	0.008	0.002	4.240	4.010	9.850	0.020	0.150	0.040	0.207	0.196	0.482	0.001	0.007	0.002
N261	152	24	0	Patch	8	12.96	11.19	31.63	0.06	0.22	0.29	0.410	0.002	0.354	0.007	0.009	5.690	4.690	14.430	0.060	0.210	0.250	0.180	0.148	0.456	0.002	0.007	0.008
N261	153	25	0	Patch	8	15.03	13.05	32.97	0.06	0.16	0.09	0.456	0.002	0.396	0.005	0.003	7.450	6.020	18.370	0.050	0.150	0.080	0.226	0.183	0.557	0.002	0.005	0.002
N261	154	26	0	Patch	8	18.1	15.79	37.59	0.06	0.06	0.04	0.482	0.002	0.420	0.002	0.001	9.300	7.350	23.270	0.050	0.050	0.030	0.247	0.196	0.619	0.001	0.001	0.001
N261	155	27	0	Patch	8	18.11	16.41	39.05	0.08	0.1	0.03	0.464	0.002	0.420	0.003	0.001	9.350	7.990	24.050	0.070	0.100	0.030	0.239	0.205	0.616	0.002	0.003	0.001
N261	156	28	0	Patch	8	14.9	11.83	32.56	0.05	0.2	0.11	0.458	0.002	0.363	0.006	0.003	7.140	5.640	15.510	0.040	0.190	0.110	0.219	0.173	0.476	0.001	0.006	0.003
N261	161	33	0	Patch	8	13.35	12.24	32.07	0.06	0.17	0.16	0.416	0.002	0.382	0.005	0.005	6.240	5.360	15.810	0.050	0.160	0.130	0.195	0.167	0.493	0.002	0.005	0.004
N261	162	34	0	Patch	8	17.18	15.04	37.3	0.06	0.14	0.07	0.461	0.002	0.403	0.004	0.002	8.790	6.970	22.050	0.050	0.130	0.070	0.236	0.187	0.591	0.001	0.003	0.002
N261	163	35	0	Patch	8	18.27	15.52	37.41	0.06	0.05	0.02	0.488	0.002	0.415	0.001	0.001	9.300	7.340	23.370	0.050	0.050	0.010	0.249	0.196	0.625	0.001	0.001	0.000
N261	164	36	0	Patch	8	15.45	14.97	35.18	0.06	0.14	0.06	0.439	0.002	0.426	0.004	0.002	7.960	7.260	20.730	0.050	0.130	0.060	0.226	0.206	0.589	0.001	0.004	0.002

- QTM1 N261 Low channel SISO

												Max Ratio												Max Ratio					
												0.538	0.005	0.511	0.023	0.007							0.255	0.222	0.003	0.573	0.022	0.007
n261low ch.(27.5GHz)						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						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	1.74	1.6	0.01	4.31	0.02	0.01	0.404	0.002	0.371	0.005	0.002	0.620	0.600	0.010	1.900	0.020	0.010	0.14385	0.13921	0.00232	0.44084	0.00464	0.00232
N261		2	1	Patch	1	1.83	1.54	0	4.47	0.02	0.01	0.409	0.000	0.345	0.004	0.002	0.680	0.570	0.000	2.010	0.020	0.010	0.15213	0.12752	0	0.44966	0.00447	0.00224
N261		5	1	Patch	2	2.8	1.85	0.03	6.64	0.07	0.02	0.422	0.005	0.279	0.011	0.003	1.270	0.700	0.020	2.860	0.070	0.020	0.19127	0.10542	0.00301	0.43072	0.01054	0.00301
N261		6	1	Patch	2	4.27	2.63	0.02	8.07	0.02	0.01	0.529	0.002	0.326	0.002	0.001	1.970	1.060	0.020	4.490	0.020	0.010	0.24411	0.13135	0.00248	0.55638	0.00248	0.00124
N261		7	1	Patch	2	2.41	3.84	0.03	7.52	0.06	0.01	0.320	0.004	0.511	0.008	0.001	1.050	1.620	0.020	3.710	0.060	0.010	0.13963	0.21543	0.00266	0.49335	0.00798	0.00133
N261		8	1	Patch	2	1.95	2.74	0.02	6.6	0.08	0.02	0.295	0.003	0.415	0.012	0.003	0.690	1.070	0.020	2.430	0.080	0.020	0.10455	0.16212	0.00303	0.36818	0.01212	0.00303
N261		13	1	Patch	2	3.9	3.09	0.01	8.2	0.02	0.02	0.476	0.001	0.377	0.002	0.002	1.720	1.310	0.010	4.340	0.020	0.010	0.20976	0.15976	0.00122	0.52927	0.00244	0.00122
N261		14	1	Patch	2	4.37	3.84	0.01	9.47	0.02	0.01	0.461	0.001	0.405	0.002	0.001	1.950	1.640	0.010	5.170	0.020	0.010	0.20591	0.17318	0.00106	0.54593	0.00211	0.00106
N261		15	1	Patch	2	2.96	2.81	0.02	7.62	0.07	0.02	0.388	0.003	0.369	0.009	0.003	1.320	1.150	0.010	3.450	0.060	0.020	0.17323	0.15092	0.00131	0.45276	0.00787	0.00262
N261		19	1	Patch	4	6.81	4.71	0.03	13.72	0.07	0.04	0.496	0.002	0.343	0.005	0.003	3.210	2.230	0.020	7.080	0.060	0.030	0.23397	0.16254	0.00146	0.51603	0.00437	0.00219
N261		20	1	Patch	4	8.51	6.34	0.02	16.9	0.03	0.01	0.504	0.001	0.375	0.002	0.001	4.180	3.100	0.020	9.530	0.030	0.010	0.24734	0.18343	0.00118	0.56391	0.00178	0.00059
N261		21	1	Patch	4	7.82	7.34	0.03	16.89	0.02	0.01	0.463	0.002	0.435	0.001	0.001	4.030	3.560	0.020	9.500	0.020	0.010	0.2386	0.21078	0.00118	0.56246	0.00118	0.00059
N261		22	1	Patch	4	6.08	7.67	0.02	15.51	0.08	0.01	0.392	0.001	0.495	0.005	0.001	2.960	3.420	0.020	8.210	0.070	0.010	0.19084	0.2205	0.00129	0.52934	0.00451	0.00064
N261		23	1	Patch	4	3.63	4.74	0.04	10.25	0.24	0.07	0.354	0.004	0.462	0.023	0.007	1.730	1.870	0.030	4.790	0.230	0.070	0.16878	0.18244	0.00293	0.46732	0.02244	0.00683
N261		29	1	Patch	4	7.65	5.44	0.02	15.51	0.04	0.03	0.493	0.001	0.351	0.003	0.002	3.650	2.630	0.020	8.240	0.040	0.020	0.23533	0.16957	0.00129	0.53127	0.00258	0.00129
N261		30	1	Patch	4	8.36	6.83	0.03	17.08	0.01	0.01	0.489	0.002	0.400	0.001	0.001	4.230	3.340	0.020	9.690	0.010	0.010	0.24766	0.19555	0.00117	0.56733	0.00059	0.00059
N261		31	1	Patch	4	6.88	7.82	0.03	16.42	0.04	0.01	0.419	0.002	0.476	0.002	0.001	3.460	3.650	0.020	8.990	0.030	0.010	0.21072	0.22229	0.00122	0.5475	0.00183	0.00061
N261		32	1	Patch	4	4.93	6.49	0.03	13.44	0.18	0.04	0.367	0.002	0.483	0.013	0.003	2.370	2.680	0.030	6.700	0.160	0.040	0.17634	0.1994	0.00223	0.49851	0.0119	0.00298
N261		128	1	Patch	4	1.77	1.45	0.01	4.26	0.02	0.01	0.415	0.002	0.340	0.005	0.002	0.670	0.510	0.010	1.990	0.020	0.010	0.15728	0.11972	0.00235	0.46714	0.00469	0.00235
N261		130	1	Patch	1	1.7	1.35	0.01	4.02	0.03	0.01	0.423	0.002	0.336	0.007	0.002	0.610	0.490	0.010	1.730	0.030	0.010	0.15174	0.12189	0.00249	0.43035	0.00746	0.00249
N261		133	1	Patch	1	2.44	2.22	0.02	6.84	0.06	0.02	0.357	0.003	0.325	0.009	0.003	1.070	0.910	0.010	2.860	0.060	0.020	0.15643	0.13304	0.00146	0.41813	0.00877	0.00292
N261		134	1	Patch	2	3.92	3.37	0.02	8.63	0.02	0.01	0.454	0.002	0.390	0.002	0.001	1.800	1.380	0.010	4.650	0.020	0.010	0.20857	0.15991	0.00116	0.53882	0.00232	0.00116
N261		135	1	Patch	2	4.25	3.4	0.01	8.92	0.03	0.01	0.476	0.001	0.381	0.003	0.001	1.850	1.430	0.010	4.840	0.020	0.010	0.2074	0.16031	0.00112	0.5426	0.00224	0.00112
N261		136	1	Patch	2	3.21	1.8	0.02	6.73	0.05	0.02	0.477	0.003	0.267	0.007	0.003	1.430	0.690	0.010	3.070	0.050	0.020	0.21248	0.10253	0.00149	0.45617	0.00743	0.00297
N261		141	1	Patch	2	3.04	2.76	0.02	7.55	0.05	0.02	0.403	0.003	0.366	0.007	0.003	1.380	1.150	0.010	3.640	0.040	0.020	0.18278	0.15232	0.00132	0.48212	0.0053	0.00265
N261		142	1	Patch	2	4.73	3.12	0.02	8.8	0.01	0	0.538	0.002	0.355	0.001	0.000	2.130	1.270	0.010	5.040	0.010	0.000	0.24205	0.14432	0.00114	0.57273	0.00114	0
N261		143	1	Patch	2	3.67	2.89	0.02	8.19	0.06	0.02	0.448	0.002	0.353	0.007	0.002	1.540	1.250	0.010	4.040	0.050	0.010	0.18803	0.15263	0.00122	0.49328	0.00611	0.00122
N261		147	1	Patch	2	4.29	4.85	0.04	11.25	0.11	0.07	0.381	0.004	0.431	0.010	0.006	2.090	2.010	0.030	5.390	0.100	0.070	0.18578	0.17867	0.00267	0.47911	0.00889	0.00622
N261		148	1	Patch	4	6.26	6.94	0.03	15.25	0.01	0.02	0.410	0.002	0.455	0.001	0.001	2.960	3.150	0.030	8.220	0.010	0.020	0.1941	0.20656	0.00197	0.53902	0.00066	0.00131
N261		149	1	Patch	4	7.7	5.65	0.05	15.29	0.03	0.01	0.504	0.003	0.370	0.002	0.001	3.720	2.680	0.040	8.420	0.030	0.010	0.2433	0.17528	0.00262	0.55069	0.00196	0.00065
N261		150	1	Patch	4	7.77	4.83	0.02	14.53	0.06	0.02	0.535	0.001	0.332	0.004	0.001	3.520	2.240	0.010	7.720	0.050	0.010	0.24226	0.15416	0.00069	0.53131	0.00344	0.00069
N261		151	1	Patch	4	6.34	3.98	0.02	12.3	0.15	0.03	0.515	0.002	0.324	0.012	0.002	2.790	1.800	0.020	6.180	0.130	0.030	0.22683	0.14634	0.00163	0.50244	0.01057	0.00244
N261		157	1	Patch	4	5.24	6.16	0.03	13.58	0.07	0.04	0.386	0.002	0.454	0.005	0.003	2.570	2.740	0.030	7.020	0.060	0.040	0.18925	0.20177	0.00221	0.51694	0.00442	0.00295
N261		158	1	Patch	4	7.32	6.5	0.04	15.87	0.01	0.01	0.461	0.003	0.410	0.001	0.001	3.580	3.040	0.040	8.620	0.010	0.010	0.22558	0.19156	0.00252	0.54316	0.00063	0.00063
N261		159	1	Patch	4	7.68	5.09	0.03	14.36	0.04	0.01	0.535	0.002	0.354	0.003	0.001	3.660	2.420	0.030	7.960	0.040	0.010	0.25487	0.16852	0.00209	0.55432	0.00279	0.0007
N261		160	1	Patch	4	7.43	4.59	0.01	13.94	0.09	0.02	0.533	0.001	0.329	0.006	0.001	3.340	2.120	0.010	7.330	0.080	0.020	0.2396	0.15208	0.00072	0.52582	0.00574	0.00143

- QTM1 N261 Low channel MIMO

												Max Ratio												Max Ratio					
												0.522	0.005	0.486	0.016	0.007							0.263	0.224	0.003	0.605	0.015	0.006
N261	128	0	1	Patch	2	4.42	3.82	0.03	9.07	0.07	0.03	0.487	0.003	0.421	0.008	0.003	1.700	1.520	0.020	3.990	0.060	0.020	0.18743	0.16759	0.00221	0.43991	0.00662	0.00221
N261	130	2	1	Patch	2	4.47	3.67	0.02	8.94	0.09	0.03	0.500	0.002	0.411	0.010	0.003	1.710	1.440	0.010	3.980	0.080	0.020	0.19128	0.16107	0.00112	0.44519	0.00895	0.00224
N261	133	5	1	Patch	2	6.32	4.47	0.06	14.7	0.15	0.06	0.430	0.004	0.304	0.010	0.004	2.750	1.830	0.040	6.360	0.150	0.050	0.18707	0.12449	0.00272	0.43265	0.0102	0.0034
N261	134	6	1	Patch	4	9.39	6.9	0.04	18.3	0.06	0.02	0.513	0.002	0.377	0.003	0.001	4.430	2.820	0.030	10.560	0.060	0.020	0.24208	0.1541	0.00164	0.57705	0.00328	0.00109
N261	135	7	1	Patch	4	7.3	8.21	0.04	16.9	0.11	0.03	0.432	0.002	0.486	0.007	0.002	3.160	3.780	0.030	9.330	0.110	0.030	0.18698	0.22367	0.00178	0.55207	0.00651	0.00178
N261	136	8	1	Patch	4	5.98	6.07	0.04	14.35	0.19	0.06	0.417	0.003	0.423	0.013	0.004	2.670	2.630	0.040	5.930	0.180	0.060	0.18606	0.18328	0.00279	0.41324	0.01254	0.00418
N261	141	13	1	Patch	4	8.84	6.24	0.05	17.22	0.08	0.05	0.513	0.003	0.362	0.005	0.003	3.880	2.840	0.040	8.600	0.080	0.050	0.22532	0.16492	0.00232	0.49942	0.00465	0.0029
N261	142	14	1	Patch	4	9.91	7.49	0.03	18.97	0.04	0.02	0.522	0.002	0.395	0.002	0.001	4.810	3.090	0.030	10.890	0.040	0.020	0.25356	0.16289	0.00158	0.57406	0.00211	0.00105
N261	143	15	1	Patch	4	7.14	6.12	0.06	16.34	0.12	0.05	0.437	0.004	0.375	0.007	0.003	3.040	2.500	0.040	7.860	0.110	0.040	0.18605	0.153	0.00245	0.48103	0.00673	0.00245
N261	147	19	1	Patch	8	12.99	10.89	0.13	27.94	0.25	0.15	0.465	0.005	0.390	0.009	0.005	6.200	4.440	0.080	13.210	0.240	0.130	0.2219	0.15891	0.00286	0.4728	0.00859	0.00465
N261	148	20	1	Patch	8	17.3	14.61	0.07	36.08	0.08	0.05	0.479	0.002	0.405	0.002	0.001	8.570	6.980	0.060	21.260	0.080	0.050	0.23753	0.19346	0.00166	0.58925	0.00222	0.00139
N261	149	21	1	Patch	8	18.17	14.47	0.09	35.56	0.09	0.02	0.511	0.003	0.407	0.003	0.001	9.370	7.190	0.070	21.500	0.090	0.020	0.2635	0.20219	0.00197	0.60461	0.00253	0.00056
N261	150	22	1	Patch	8	14.26	13.62	0.05	32.16	0.16	0.05	0.443	0.002	0.424	0.005	0.002	6.840	6.330	0.040	17.840	0.140	0.050	0.21269	0.19683	0.00124	0.55473	0.00435	0.00155
N261	151	23	1	Patch	8	11.14	11.4	0.06	27.47	0.43	0.18	0.406	0.002	0.415	0.016	0.007	5.220	4.710	0.060	12.890	0.400	0.170	0.19003	0.17146	0.00218	0.46924	0.01456	0.00619
N261	157	29	1	Patch	8	13.94	11.99	0.08	29.79	0.15	0.09	0.468	0.003	0.402	0.005	0.003	6.860	5.490	0.050	16.160	0.140	0.080	0.23028	0.18429	0.00168	0.54246	0.0047	0.00269
N261	158	30	1	Patch	8	18.61	14.49	0.09	36.61	0.04	0.04	0.508	0.002	0.396	0.001	0.001	9.510	7.080	0.080	22.060	0.030	0.040	0.25977	0.19339	0.00219	0.60257	0.00082	0.00109
N261	159	31	1	Patch	8	17.04	14.41	0.09	34.64	0.11	0.03	0.492	0.003	0.416	0.003	0.001	8.580	7.020	0.060	20.470	0.100	0.030	0.24769	0.20266	0.00173	0.59094	0.00289	0.00087
N261	160	32	1	Patch	8	12.4	12.54	0.05	29.03	0.27	0.11	0.427	0.002	0.432	0.009	0.004	5.830	5.520	0.040	14.200	0.250	0.110	0.20083	0.19015	0.00138	0.48915	0.00861	0.00379

- QTM0 N261 Middle channel SISO

												Max Ratio											Max Ratio					
												0.501	0.003	0.461	0.014	0.009							0.236	0.216	0.567	0.003	0.013	0.009
n261Mid 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	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		1	0	Patch	1	1.37	1.31	3.72	0	0.01	0.01	0.368	0.000	0.352	0.003	0.003	0.52	0.52	1.71	0	0.01	0.01	0.13978	0.13978	0.45968	0	0.00269	0.00269
N261		3	0	Patch	1	1.8	1.57	4.72	0	0.01	0.01	0.381	0.000	0.333	0.002	0.002	0.66	0.62	2.12	0	0.01	0.01	0.13983	0.13136	0.44915	0	0.00212	0.00212
N261		4	0	Patch	1	1.55	1.74	4.51	0	0.01	0.02	0.344	0.000	0.386	0.002	0.004	0.62	0.66	1.94	0	0.01	0.02	0.13747	0.14634	0.43016	0	0.00222	0.00443
N261		9	0	Patch	2	2.11	2.3	7.27	0.01	0.03	0.03	0.290	0.001	0.316	0.004	0.004	0.75	0.96	2.72	0	0.03	0.03	0.10316	0.13205	0.37414	0	0.00413	0.00413
N261		10	0	Patch	2	2.53	3.35	8.05	0.01	0.02	0.03	0.314	0.001	0.416	0.002	0.004	1.04	1.44	3.87	0.01	0.02	0.02	0.12919	0.17888	0.48075	0.00124	0.00248	0.00248
N261		11	0	Patch	2	4.02	3.93	9.63	0.01	0.01	0.02	0.417	0.001	0.408	0.001	0.002	1.78	1.71	5.22	0	0.01	0.02	0.18484	0.17757	0.54206	0	0.00104	0.00208
N261		12	0	Patch	2	4.26	2.88	8.96	0.01	0.04	0.01	0.475	0.001	0.321	0.004	0.001	1.92	1.21	4.61	0.01	0.04	0.01	0.21429	0.13504	0.51451	0.00112	0.00446	0.00112
N261		16	0	Patch	2	3.37	3.16	8.72	0.01	0.04	0.03	0.386	0.001	0.362	0.005	0.003	1.47	1.31	4.21	0.01	0.04	0.02	0.16858	0.15023	0.4828	0.00115	0.00459	0.00229
N261		17	0	Patch	2	4.3	4.26	10.13	0.01	0.01	0.01	0.424	0.001	0.421	0.001	0.001	1.91	1.84	5.61	0.01	0.01	0.01	0.18855	0.18164	0.5538	0.00099	0.00099	0.00099
N261		18	0	Patch	2	4.26	3.34	9.23	0.01	0.03	0	0.462	0.001	0.362	0.003	0.000	1.9	1.43	4.99	0.01	0.03	0	0.20585	0.15493	0.54063	0.00108	0.00325	0
N261		24	0	Patch	2	3.83	4.15	11.15	0.02	0.09	0.1	0.343	0.002	0.372	0.008	0.009	1.74	1.56	4.83	0.02	0.09	0.1	0.15605	0.13991	0.43318	0.00179	0.00807	0.00897
N261		25	0	Patch	4	5.63	6.51	14.91	0.02	0.04	0.04	0.378	0.001	0.437	0.003	0.003	2.69	2.96	7.77	0.02	0.03	0.04	0.18042	0.19852	0.52113	0.00134	0.00201	0.00268
N261		26	0	Patch	4	7.18	7.74	17.43	0.03	0.02	0.02	0.412	0.002	0.444	0.001	0.001	3.68	3.55	9.81	0.02	0.02	0.02	0.21113	0.20367	0.56282	0.00115	0.00115	0.00115
N261		27	0	Patch	4	7.37	7.2	17.14	0.02	0.02	0.01	0.430	0.001	0.420	0.001	0.001	3.76	3.52	9.6	0.01	0.02	0.01	0.21937	0.20537	0.56009	0.00058	0.00117	0.00058
N261		28	0	Patch	4	6.73	4.92	14.63	0.03	0.08	0.04	0.460	0.002	0.336	0.005	0.003	3.3	2.38	7.3	0.02	0.07	0.04	0.22556	0.16268	0.49897	0.00137	0.00478	0.00273
N261		33	0	Patch	4	4.85	5.3	12.98	0.03	0.05	0.06	0.374	0.002	0.408	0.004	0.005	2.24	2.28	6.35	0.02	0.05	0.06	0.17257	0.17565	0.48921	0.00154	0.00385	0.00462
N261		34	0	Patch	4	6.37	7.61	16.51	0.02	0.03	0.03	0.386	0.001	0.461	0.002	0.002	3.14	3.56	8.94	0.02	0.02	0.03	0.19019	0.21563	0.54149	0.00121	0.00121	0.00182
N261		35	0	Patch	4	7.4	7.36	17.17	0.02	0.01	0.01	0.431	0.001	0.429	0.001	0.001	3.79	3.47	9.7	0.01	0.01	0.01	0.22073	0.2021	0.56494	0.00058	0.00058	0.00058
N261		36	0	Patch	4	7.27	6.55	16.75	0.02	0.03	0.02	0.434	0.001	0.391	0.002	0.001	3.68	3.19	9.12	0.02	0.03	0.02	0.2197	0.19045	0.54448	0.00119	0.00179	0.00119
N261		129	0	Patch	1	1.67	1.23	3.89	0.01	0.04	0.01	0.429	0.003	0.316	0.010	0.003	0.66	0.48	1.5	0.01	0.04	0.01	0.16967	0.12339	0.3856	0.00257	0.01028	0.00257
N261		131	0	Patch	1	1.5	1.61	4.19	0	0.02	0.01	0.358	0.000	0.384	0.005	0.002	0.58	0.61	1.96	0	0.02	0.01	0.13842	0.14558	0.46778	0	0.00477	0.00239
N261		132	0	Patch	2	1.7	1.37	4.26	0	0.01	0.01	0.399	0.000	0.322	0.002	0.002	0.66	0.54	1.9	0	0.01	0.01	0.15493	0.12676	0.44601	0	0.00235	0.00235
N261		137	0	Patch	2	2.48	1.86	6.4	0.01	0.09	0.03	0.388	0.002	0.291	0.014	0.005	1.07	0.73	2.31	0.01	0.08	0.03	0.16719	0.11406	0.36094	0.00156	0.0125	0.00469
N261		138	0	Patch	2	3.8	2.42	7.59	0.02	0.03	0.01	0.501	0.003	0.319	0.004	0.001	1.79	0.99	3.83	0.02	0.03	0.01	0.23584	0.13043	0.50461	0.00264	0.00395	0.00132
N261		139	0	Patch	2	3.73	3.7	9.07	0.01	0.02	0.02	0.411	0.001	0.408	0.002	0.002	1.67	1.63	4.99	0.01	0.02	0.02	0.18412	0.17971	0.55017	0.0011	0.00221	0.00221
N261		140	0	Patch	2	2.16	2.09	6.89	0.01	0.02	0.03	0.313	0.001	0.303	0.003	0.004	0.91	0.89	2.84	0	0.02	0.03	0.13208	0.12917	0.41219	0	0.0029	0.00435
N261		144	0	Patch	2	3.4	3.27	8.27	0.01	0.02	0.02	0.411	0.001	0.395	0.002	0.002	1.51	1.37	4.3	0	0.02	0.02	0.18259	0.16566	0.51995	0	0.00242	0.00242
N261		145	0	Patch	2	4.29	3.15	8.87	0.02	0.01	0	0.484	0.002	0.355	0.001	0.000	2.01	1.29	4.83	0.02	0.01	0	0.22661	0.14543	0.54453	0.00225	0.00113	0
N261		146	0	Patch	2	3.37	3.61	8.9	0.01	0.06	0.01	0.379	0.001	0.406	0.007	0.001	1.48	1.57	4.32	0.01	0.06	0.01	0.16629	0.1764	0.48539	0.00112	0.00674	0.00112
N261		152	0	Patch	2	5.55	3.76	11.31	0.02	0.07	0.07	0.491	0.002	0.332	0.006	0.006	2.44	1.63	5.09	0.02	0.06	0.06	0.21574	0.14412	0.45004	0.00177	0.00531	0.00531
N261		153	0	Patch	4	6.81	4.77	14.22	0.02	0.04	0.03	0.479	0.001	0.335	0.003	0.002	3.34	2.12	7.37	0.02	0.03	0.03	0.23488	0.14909	0.51828	0.00141	0.00211	0.00211
N261		154	0	Patch	4	7.67	6.51	16.65	0.03	0.01	0.01	0.461	0.002	0.391	0.001	0.001	3.83	3.1	9.29	0.02	0.01	0.01	0.23003	0.18619	0.55796	0.0012	0.0006	0.0006
N261		155	0	Patch	4	7.51	7.16	16.99	0.04	0.04	0.01	0.442	0.002	0.421	0.002	0.001	3.81	3.39	9.61	0.03	0.04	0.01	0.22425	0.19953	0.56563	0.00177	0.00235	0.00059
N261		156	0	Patch	4	4.95	5.05	12.76	0.02	0.07	0.05	0.388	0.002	0.396	0.005	0.004	2.35	2.26	6.6	0.02	0.07	0.05	0.18417	0.17712	0.51724	0.00157	0.00549	0.00392
N261		161	0	Patch	4	6.1	4.25	12.59	0.02	0.04	0.05	0.485	0.002	0.338	0.003	0.004	2.82	1.84	6.07	0.02	0.04	0.05	0.22399	0.14615	0.48213	0.00159	0.00318	0.00397
N261		162	0	Patch	4	7.43	5.57	15.82	0.03	0.04	0.02	0.470	0.002	0.352	0.003	0.001	3.68	2.58	8.55	0.02	0.03	0.02	0.23262	0.16308	0.54046	0.00126	0.0019	0.00126
N261		163	0	Patch	4	7.7	6.76	16.72	0.04	0.02	0	0.461	0.002	0.404	0.001	0.000	3.89	3.19	9.38	0.03	0.02	0	0.23266	0.19079	0.561	0.00179	0.0012	0
N261		164	0	Patch	4	6.22	6.8	15.26	0.02	0.05	0.03	0.408	0.001	0.446	0.003	0.002	3	3.14	8.66	0.02	0.04	0.02	0.19659	0.20577	0.5675	0.00131	0.00262	0.00131

- QTM0 N261 Middle channel MIMO

												Max Ratio											Max Ratio					
												0.504	0.003	0.494	0.014	0.009							0.257	0.227	0.623	0.002	0.013	0.008
N261	129	1	0	Patch	2	3.84	3.25	8.2	0.02	0.1	0.02	0.468	0.002	0.396	0.012	0.002	1.49	1.37	3.56	0.01	0.09	0.02	0.18171	0.16707	0.43415	0.00122	0.01098	0.00244
N261	131	3	0	Patch	2	4.37	4.32	9.5	0.01	0.04	0.04	0.460	0.001	0.455	0.004	0.004	1.68	1.77	4.27	0.01	0.04	0.04	0.17684	0.18632	0.44947	0.00105	0.00421	0.00421
N261	132	4	0	Patch	2	4.38	4.21	9.33	0.02	0.03	0.05	0.469	0.002	0.451	0.003	0.005	1.74	1.68	3.99	0.01	0.03	0.04	0.1865	0.18006	0.42765	0.00107	0.00322	0.00429
N261	137	9	0	Patch	4	6.04	5.53	14.9	0.03	0.21	0.12	0.405	0.002	0.371	0.014	0.008	2.52	2.58	5.77	0.03	0.19	0.1	0.16913	0.17315	0.38725	0.00201	0.01275	0.00671
N261	138	10	0	Patch	4	7.95	8.2	16.61	0.05	0.09	0.07	0.479	0.003	0.494	0.005	0.004	3.69	3.77	8.08	0.04	0.09	0.06	0.22216	0.22697	0.48645	0.00241	0.00542	0.00361
N261	139	11	0	Patch	4	8.59	8.07	19.6	0.02	0.04	0.06	0.438	0.001	0.412	0.002	0.003	3.88	3.45	11.73	0.01	0.04	0.05	0.19796	0.17602	0.59847	0.00051	0.00204	0.00255
N261	140	12	0	Patch	4	7.4	5.28	15.33	0.02	0.08	0.05	0.483	0.001	0.344	0.005	0.003	3.33	2.3	8.37	0.02	0.08	0.04	0.21722	0.15003	0.54599	0.0013	0.00522	0.00261
N261	144	16	0	Patch	4	7.44	6.83	18.04	0.02	0.07	0.07	0.412	0.001	0.379	0.004	0.004	3.26	2.8	9.19	0.02	0.07	0.06	0.18071	0.15521	0.50942	0.00111	0.00388	0.00333
N261	145	17	0	Patch	4	9.82	8.39	19.5	0.03	0.03	0.02	0.504	0.002	0.430	0.002	0.001	4.67	3.46	11.46	0.02	0.03	0.02	0.23949	0.17744	0.58769	0.00103	0.00154	0.00103
N261	146	18	0	Patch	4	9.51	8.92	19.39	0.03	0.13	0.03	0.490	0.002	0.460	0.007	0.002	4.24	3.99	9.86	0.02	0.12	0.03	0.21867	0.20578	0.50851	0.00103	0.00619	0.00155
N261	152	24	0	Patch	8	11.96	10.87	29.87	0.07	0.18	0.27	0.400	0.002	0.364	0.006	0.009	5.25	4.44	13.54	0.06	0.18	0.24	0.17576	0.14864	0.4533	0.00201	0.00603	0.00803
N261	153	25	0	Patch	8	12.99	11.76	29.39	0.06	0.12	0.1	0.442	0.002	0.400	0.004	0.003	6.44	5.41	16.38	0.05	0.12	0.09	0.21912	0.18408	0.55733	0.0017	0.00408	0.00306
N261	154	26	0	Patch	8	17.99	15.22	37.36	0.06	0.06	0.04	0.482	0.002	0.407	0.002	0.001	9.22	7.16	23.03	0.05	0.05	0.03	0.24679	0.19165	0.61643	0.00134	0.00134	0.0008
N261	155	27	0	Patch	8	17.91	15.51	37.92	0.09	0.1	0.03	0.472	0.002	0.409	0.003	0.001	9.31	7.57	23.41	0.07	0.1	0.03	0.24552	0.19963	0.61735	0.00185	0.00264	0.00079
N261	156	28	0	Patch	8	13.65	11.21	31.04	0.06	0.16	0.1	0.440	0.002	0.361	0.005	0.003	6.41	5.17	14.84	0.05	0.15	0.1	0.20651	0.16656	0.47809	0.00161	0.00483	0.00322
N261	161	33	0	Patch	8	12.35	11.61	30.17	0.07	0.13	0.13	0.409	0.002	0.385	0.004	0.004	5.64	5.01	14.66	0.06	0.13	0.12	0.18694	0.16606	0.48591	0.00199	0.00431	0.00398
N261	162	34	0	Patch	8	16.46	14	35.87	0.06	0.12	0.08	0.459	0.002	0.390	0.003	0.002	8.3	6.54	21.21	0.05	0.11	0.07	0.23139	0.18233	0.5913	0.00139	0.00307	0.00195
N261	163	35	0	Patch	8	18.26	14.92	36.63	0.06	0.04	0.02	0.498	0.002	0.407	0.001	0.001	9.41	7.1	22.83	0.05	0.04	0.02	0.25689	0.19383	0.62326	0.00137	0.00109	0.00055
N261	164	36	0	Patch	8	14.8	14.08	33.44	0.07	0.12	0.07	0.443	0.002	0.421	0.004	0.002	7.7	6.8	19.93	0.05	0.12	0.07	0.23026	0.20335	0.59599	0.0015	0.00359	0.00209

- QTM1 N261 Middle channel SISO

												Max Ratio												Max Ratio					
												0.541	0.005	0.499	0.021	0.009							0.261	0.227	0.003	0.575	0.020	0.008
n261Mid 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 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm	surface 10mm/2mm
N261		0	1	Patch	1	1.67	1.37	0.01	3.83	0.02	0.01	0.436	0.003	0.358	0.005	0.003	0.62	0.53	0.01	1.75	0.01	0.01	0.16188	0.13838	0.00261	0.45692	0.00261	0.00261
N261		2	1	Patch	1	1.63	1.48	0.01	4.08	0.02	0.01	0.400	0.002	0.363	0.005	0.002	0.62	0.56	0	1.87	0.02	0.01	0.15196	0.13725	0	0.45833	0.0049	0.00245
N261		5	1	Patch	2	2.51	1.67	0.03	6.08	0.06	0.02	0.413	0.005	0.275	0.010	0.003	1.19	0.64	0.02	2.62	0.06	0.02	0.19572	0.10526	0.00329	0.43092	0.00987	0.00329
N261		6	1	Patch	2	3.83	2.45	0.02	7.31	0.02	0.01	0.524	0.003	0.335	0.003	0.001	1.82	0.99	0.02	4.11	0.02	0	0.24897	0.13543	0.00274	0.56224	0.00274	0
N261		7	1	Patch	2	2.33	3.44	0.03	7.01	0.06	0.01	0.332	0.004	0.491	0.009	0.001	1.04	1.45	0.02	3.51	0.05	0.01	0.14836	0.20685	0.00285	0.50071	0.00713	0.00143
N261		8	1	Patch	2	1.94	2.44	0.02	6.15	0.07	0.02	0.315	0.003	0.397	0.011	0.003	0.68	0.98	0.02	2.21	0.07	0.02	0.11057	0.15935	0.00325	0.35935	0.01138	0.00325
N261		13	1	Patch	2	4.06	2.71	0.02	7.84	0.01	0.01	0.518	0.003	0.346	0.001	0.001	1.86	1.13	0.01	4.24	0.01	0.01	0.23724	0.14413	0.00128	0.54082	0.00128	0.00128
N261		14	1	Patch	2	4.11	3.6	0.01	8.89	0.02	0.01	0.462	0.001	0.405	0.002	0.001	1.85	1.54	0.01	4.88	0.02	0.01	0.2081	0.17323	0.00112	0.54893	0.00225	0.00112
N261		15	1	Patch	2	2.61	2.47	0.01	6.56	0.05	0.02	0.398	0.002	0.377	0.008	0.003	1.15	1.04	0.01	3	0.05	0.02	0.1753	0.15854	0.00152	0.45732	0.00762	0.00305
N261		19	1	Patch	4	6.36	4.07	0.03	12.38	0.07	0.02	0.514	0.002	0.329	0.006	0.002	3.09	1.91	0.02	6.54	0.07	0.02	0.2496	0.15428	0.00162	0.52827	0.00565	0.00162
N261		20	1	Patch	4	8.38	5.99	0.03	16.27	0.03	0.01	0.515	0.002	0.368	0.002	0.001	4.15	2.91	0.02	9.23	0.03	0.01	0.25507	0.17886	0.00123	0.5673	0.00184	0.00061
N261		21	1	Patch	4	7.42	6.99	0.02	16.13	0.02	0.01	0.460	0.001	0.433	0.001	0.001	3.85	3.37	0.02	9.26	0.02	0.01	0.23869	0.20893	0.00124	0.57409	0.00124	0.00062
N261		22	1	Patch	4	5.6	7.07	0.03	14.19	0.06	0.01	0.395	0.002	0.498	0.004	0.001	2.71	3.22	0.02	7.56	0.06	0.01	0.19098	0.22692	0.00141	0.53277	0.00423	0.0007
N261		23	1	Patch	4	3.18	4.16	0.03	8.85	0.19	0.08	0.359	0.003	0.470	0.021	0.009	1.5	1.64	0.03	4.21	0.18	0.07	0.16949	0.18531	0.00339	0.47571	0.02034	0.00791
N261		29	1	Patch	4	7.31	4.92	0.03	14.38	0.04	0.01	0.508	0.002	0.342	0.003	0.001	3.59	2.37	0.02	7.75	0.03	0.01	0.24965	0.16481	0.00139	0.53894	0.00209	0.0007
N261		30	1	Patch	4	8.05	6.45	0.03	16.35	0.01	0.01	0.492	0.002	0.394	0.001	0.001	4.08	3.14	0.02	9.39	0.01	0.01	0.24954	0.19205	0.00122	0.57431	0.00061	0.00061
N261		31	1	Patch	4	6.54	7.36	0.03	15.57	0.04	0.01	0.420	0.002	0.473	0.003	0.001	3.29	3.47	0.02	8.67	0.04	0.01	0.2113	0.22286	0.00128	0.55684	0.00257	0.00064
N261		32	1	Patch	4	4.33	5.81	0.03	11.65	0.14	0.05	0.372	0.003	0.499	0.012	0.004	2.06	2.45	0.02	5.89	0.13	0.05	0.17682	0.2103	0.00172	0.50558	0.01116	0.00429
N261		128	1	Patch	4	1.57	1.39	0.01	3.87	0.02	0.01	0.406	0.003	0.359	0.005	0.003	0.6	0.51	0.01	1.85	0.02	0.01	0.15504	0.13178	0.00258	0.47804	0.00517	0.00258
N261		130	1	Patch	1	1.65	1.18	0.01	3.67	0.03	0.01	0.450	0.003	0.322	0.008	0.003	0.62	0.45	0.01	1.61	0.02	0.01	0.16894	0.12262	0.00272	0.43869	0.00545	0.00272
N261		133	1	Patch	1	2.18	1.97	0.02	5.93	0.05	0.02	0.368	0.003	0.332	0.008	0.003	0.93	0.82	0.02	2.51	0.05	0.01	0.15683	0.13828	0.00337	0.42327	0.00843	0.00169
N261		134	1	Patch	2	3.77	3.11	0.02	8.13	0.02	0.01	0.464	0.002	0.383	0.002	0.001	1.74	1.3	0.02	4.45	0.02	0.01	0.21402	0.1599	0.00246	0.54736	0.00246	0.00123
N261		135	1	Patch	2	4.01	3.2	0.01	8.41	0.02	0.01	0.477	0.001	0.380	0.002	0.001	1.77	1.36	0.01	4.63	0.02	0.01	0.21046	0.16171	0.00119	0.55054	0.00238	0.00119
N261		136	1	Patch	2	3.03	1.71	0.02	6.42	0.05	0.01	0.472	0.003	0.266	0.008	0.002	1.38	0.69	0.02	2.89	0.04	0.01	0.21495	0.10748	0.00312	0.45016	0.00623	0.00156
N261		141	1	Patch	2	2.79	2.46	0.02	6.79	0.04	0.01	0.411	0.003	0.362	0.006	0.001	1.26	1.05	0.02	3.31	0.04	0.01	0.18557	0.15464	0.00295	0.48748	0.00589	0.00147
N261		142	1	Patch	2	4.38	3.19	0.01	8.43	0.01	0	0.520	0.001	0.378	0.001	0.000	1.97	1.37	0.01	4.85	0.01	0	0.23369	0.16251	0.00119	0.57533	0.00119	0
N261		143	1	Patch	2	3.33	2.63	0.02	7.4	0.05	0.02	0.450	0.003	0.355	0.007	0.003	1.42	1.15	0.01	3.68	0.04	0.02	0.19189	0.15541	0.00135	0.4973	0.00541	0.0027
N261		147	1	Patch	2	3.66	4.39	0.04	9.84	0.11	0.05	0.372	0.004	0.446	0.011	0.005	1.8	1.88	0.02	4.94	0.1	0.05	0.18293	0.19106	0.00203	0.50203	0.01016	0.00508
N261		148	1	Patch	4	5.9	6.55	0.03	14.46	0.01	0.02	0.408	0.002	0.453	0.001	0.001	2.77	3.08	0.02	7.84	0.01	0.02	0.19156	0.213	0.00138	0.54219	0.00069	0.00138
N261		149	1	Patch	4	7.49	5.39	0.05	14.77	0.03	0.01	0.507	0.003	0.365	0.002	0.001	3.66	2.55	0.04	8.22	0.03	0.01	0.2478	0.17265	0.00271	0.55653	0.00203	0.00068
N261		150	1	Patch	4	7.36	4.58	0.02	13.64	0.05	0.01	0.540	0.001	0.336	0.004	0.001	3.4	2.1	0.02	7.29	0.05	0.01	0.24927	0.15396	0.00147	0.53446	0.00367	0.00073
N261		151	1	Patch	4	5.75	3.52	0.02	10.9	0.11	0.03	0.528	0.002	0.323	0.010	0.003	2.58	1.61	0.01	5.55	0.1	0.03	0.2367	0.14771	0.00092	0.50917	0.00917	0.00275
N261		157	1	Patch	4	4.62	5.55	0.02	12.1	0.07	0.03	0.382	0.002	0.459	0.006	0.002	2.27	2.59	0.02	6.45	0.07	0.03	0.1876	0.21405	0.00165	0.53306	0.00579	0.00248
N261		158	1	Patch	4	6.97	6.36	0.04	15.36	0.01	0.01	0.454	0.003	0.414	0.001	0.001	3.42	3.02	0.03	8.4	0.01	0.01	0.22266	0.19661	0.00195	0.54688	0.00065	0.00065
N261		159	1	Patch	4	7.53	4.82	0.04	13.92	0.04	0.01	0.541	0.003	0.346	0.003	0.001	3.63	2.26	0.03	7.75	0.04	0.01	0.26078	0.16236	0.00216	0.55675	0.00287	0.00072
N261		160	1	Patch	4	6.92	4.27	0.01	12.83	0.07	0.02	0.539	0.001	0.333	0.005	0.002	3.19	1.98	0.01	6.8	0.06	0.02	0.24864	0.15433	0.00078	0.53001	0.00468	0.00156

- QTM1 N261 Middle channel MIMO

												Max Ratio												Max Ratio					
												0.534	0.005	0.475	0.014	0.007							0.269	0.218	0.003	0.613	0.013	0.007
N261	128	0	1	Patch	2	4.16	3.57	0.03	8.14	0.05	0.02	0.511	0.004	0.439	0.006	0.002	1.64	1.44	0.02	3.74	0.05	0.02	0.20147	0.1769	0.00246	0.45946	0.00614	0.00246
N261	130	2	1	Patch	2	4.28	3.48	0.02	8.22	0.08	0.02	0.521	0.002	0.423	0.010	0.002	1.65	1.38	0.01	3.71	0.08	0.02	0.20073	0.16788	0.00122	0.45134	0.00973	0.00243
N261	133	5	1	Patch	2	5.91	3.95	0.06	13.39	0.14	0.05	0.441	0.004	0.295	0.010	0.004	2.62	1.62	0.04	5.92	0.13	0.04	0.19567	0.12099	0.00299	0.44212	0.00971	0.00299
N261	134	6	1	Patch	4	9	6.41	0.04	17.1	0.06	0.02	0.526	0.002	0.375	0.004	0.001	4.32	2.64	0.03	10.14	0.05	0.02	0.25263	0.15439	0.00175	0.59298	0.00292	0.00117
N261	135	7	1	Patch	4	7.01	7.65	0.04	16.09	0.1	0.03	0.436	0.002	0.475	0.006	0.002	3.11	3.5	0.03	9.04	0.1	0.03	0.19329	0.21753	0.00186	0.56184	0.00622	0.00186
N261	136	8	1	Patch	4	5.88	5.7	0.05	13.72	0.16	0.05	0.429	0.004	0.415	0.012	0.004	2.64	2.55	0.04	5.63	0.15	0.05	0.19242	0.18586	0.00292	0.41035	0.01093	0.00364
N261	141	13	1	Patch	4	8.75	5.36	0.05	16.4	0.07	0.04	0.534	0.003	0.327	0.004	0.002	3.92	2.46	0.04	8.38	0.07	0.04	0.23902	0.15	0.00244	0.51098	0.00427	0.00244
N261	142	14	1	Patch	4	9.47	7.47	0.03	18.46	0.03	0.02	0.513	0.002	0.405	0.002	0.001	4.63	3.11	0.02	10.7	0.03	0.02	0.25081	0.16847	0.00108	0.57963	0.00163	0.00108
N261	143	15	1	Patch	4	6.3	5.57	0.06	14.5	0.09	0.05	0.434	0.004	0.384	0.006	0.003	2.69	2.26	0.04	7.05	0.09	0.04	0.18552	0.15586	0.00276	0.48621	0.00621	0.00276
N261	147	19	1	Patch	8	11.55	10.37	0.13	25.87	0.23	0.11	0.446	0.005	0.401	0.009	0.004	5.64	4.28	0.08	12.66	0.23	0.1	0.21801	0.16544	0.00309	0.48937	0.00889	0.00387
N261	148	20	1	Patch	8	16.75	13.86	0.06	34.6	0.08	0.04	0.484	0.002	0.401	0.002	0.001	8.35	6.67	0.05	20.62	0.07	0.04	0.24133	0.19277	0.00145	0.59595	0.00202	0.00116
N261	149	21	1	Patch	8	18.16	14.13	0.08	35.34	0.09	0.02	0.514	0.002	0.400	0.003	0.001	9.5	6.95	0.07	21.68	0.09	0.02	0.26882	0.19666	0.00198	0.61347	0.00255	0.00057
N261	150	22	1	Patch	8	13.44	12.6	0.05	29.92	0.15	0.05	0.449	0.002	0.421	0.005	0.002	6.46	5.91	0.04	16.96	0.14	0.05	0.21591	0.19753	0.00134	0.56684	0.00468	0.00167
N261	151	23	1	Patch	8	10.82	10.36	0.06	25.59	0.35	0.18	0.423	0.002	0.405	0.014	0.007	5.1	4.3	0.06	12.18	0.32	0.17	0.1993	0.16803	0.00234	0.47597	0.0125	0.00664
N261	157	29	1	Patch	8	12.69	11.27	0.08	27.31	0.14	0.07	0.465	0.003	0.413	0.005	0.003	6.38	5.06	0.05	14.78	0.13	0.06	0.23361	0.18528	0.00183	0.54119	0.00476	0.0022
N261	158	30	1	Patch	8	18.2	14.18	0.08	35.81	0.04	0.04	0.508	0.002	0.396	0.001	0.001	9.42	6.98	0.06	21.85	0.04	0.04	0.26306	0.19492	0.00168	0.61016	0.00112	0.00112
N261	159	31	1	Patch	8	17	13.94	0.07	34.32	0.11	0.03	0.495	0.002	0.406	0.003	0.001	8.58	6.71	0.06	20.5	0.1	0.03	0.25	0.19551	0.00175	0.59732	0.00291	0.00087
N261	160	32	1	Patch	8	11.73	11.65	0.06	26.72	0.23	0.11	0.439	0.002	0.436	0.009	0.004	5.47	5.08	0.05	13.09	0.21	0.11	0.20472	0.19012	0.00187	0.4899	0.00786	0.00412

- QTM0 N261 High channel SISO

												Max Ratio											Max Ratio					
												0.494	0.003	0.467	0.013	0.010							0.232	0.232	0.567	0.003	0.013	0.010
n261H 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	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		1	0	Patch	1	1.390	1.190	3.640	0.000	0.010	0.010	0.382	0.000	0.327	0.003	0.003	0.540	0.450	1.690	0.000	0.010	0.010	0.14835	0.14835	0.46429	0	0.00275	0.00275
N261		3	0	Patch	1	1.660	1.440	4.310	0.000	0.010	0.010	0.385	0.000	0.334	0.002	0.002	0.620	0.570	1.940	0.000	0.010	0.010	0.14385	0.14385	0.45012	0	0.00232	0.00232
N261		4	0	Patch	1	1.360	1.700	4.140	0.000	0.010	0.020	0.329	0.000	0.411	0.002	0.005	0.540	0.650	1.750	0.000	0.010	0.010	0.13043	0.13043	0.42271	0	0.00242	0.00242
N261		9	0	Patch	2	2.000	2.280	7.040	0.010	0.030	0.030	0.284	0.001	0.324	0.004	0.004	0.760	0.900	2.700	0.000	0.030	0.030	0.10795	0.10795	0.38352	0	0.00426	0.00426
N261		10	0	Patch	2	2.510	3.220	7.860	0.010	0.020	0.020	0.319	0.001	0.410	0.003	0.003	1.060	1.340	3.830	0.010	0.020	0.020	0.13486	0.13486	0.48728	0.00127	0.00254	0.00254
N261		11	0	Patch	2	3.660	3.800	8.980	0.010	0.010	0.020	0.408	0.001	0.423	0.001	0.002	1.610	1.660	4.850	0.000	0.010	0.020	0.17929	0.17929	0.54009	0	0.00111	0.00223
N261		12	0	Patch	2	4.070	2.530	8.240	0.010	0.030	0.010	0.494	0.001	0.307	0.004	0.001	1.860	1.060	4.270	0.010	0.030	0.010	0.22573	0.22573	0.5182	0.00121	0.00364	0.00121
N261		16	0	Patch	2	3.060	2.870	7.830	0.010	0.030	0.030	0.391	0.001	0.367	0.004	0.004	1.320	1.160	3.750	0.010	0.030	0.020	0.16858	0.16858	0.47893	0.00128	0.00383	0.00255
N261		17	0	Patch	2	3.950	4.070	9.420	0.010	0.010	0.010	0.419	0.001	0.432	0.001	0.001	1.750	1.760	5.190	0.010	0.010	0.010	0.18577	0.18577	0.55096	0.00106	0.00106	0.00106
N261		18	0	Patch	2	4.130	2.990	8.600	0.010	0.030	0.000	0.480	0.001	0.348	0.003	0.000	1.860	1.280	4.680	0.010	0.020	0.000	0.21628	0.21628	0.54419	0.00116	0.00233	0
N261		24	0	Patch	2	3.420	4.110	10.490	0.020	0.090	0.100	0.326	0.002	0.392	0.009	0.010	1.480	1.560	4.490	0.020	0.090	0.100	0.14109	0.14109	0.42803	0.00191	0.00858	0.00953
N261		25	0	Patch	4	5.180	5.970	13.660	0.020	0.030	0.040	0.379	0.001	0.437	0.002	0.003	2.460	2.730	7.120	0.020	0.030	0.030	0.18009	0.18009	0.52123	0.00146	0.0022	0.0022
N261		26	0	Patch	4	6.640	7.500	16.570	0.030	0.020	0.020	0.401	0.002	0.453	0.001	0.001	3.370	3.420	9.290	0.020	0.020	0.020	0.20338	0.20338	0.56065	0.00121	0.00121	0.00121
N261		27	0	Patch	4	7.100	6.600	16.210	0.010	0.020	0.010	0.438	0.001	0.407	0.001	0.001	3.600	3.200	9.140	0.010	0.020	0.010	0.22209	0.22209	0.56385	0.00062	0.00123	0.00062
N261		28	0	Patch	4	6.120	4.500	13.270	0.030	0.060	0.030	0.461	0.002	0.339	0.005	0.002	3.010	2.160	6.620	0.020	0.060	0.030	0.22683	0.22683	0.49887	0.00151	0.00452	0.00226
N261		33	0	Patch	4	4.390	5.000	11.960	0.030	0.060	0.060	0.367	0.003	0.418	0.005	0.005	1.980	2.170	5.810	0.020	0.060	0.060	0.16555	0.16555	0.48579	0.00167	0.00502	0.00502
N261		34	0	Patch	4	5.880	7.180	15.390	0.020	0.020	0.030	0.382	0.001	0.467	0.001	0.002	2.910	3.350	8.340	0.020	0.020	0.020	0.18908	0.18908	0.54191	0.0013	0.0013	0.0013
N261		35	0	Patch	4	6.940	6.990	16.290	0.020	0.010	0.010	0.426	0.001	0.429	0.001	0.001	3.530	3.270	9.200	0.010	0.010	0.010	0.2167	0.2167	0.56476	0.00061	0.00061	0.00061
N261		36	0	Patch	4	6.840	6.100	15.660	0.020	0.030	0.020	0.437	0.001	0.390	0.002	0.001	3.450	2.970	8.510	0.020	0.030	0.020	0.22031	0.22031	0.54342	0.00128	0.00192	0.00128
N261		129	0	Patch	1	1.490	1.270	3.740	0.010	0.040	0.010	0.398	0.003	0.340	0.011	0.003	0.590	0.500	1.460	0.000	0.040	0.010	0.15775	0.15775	0.39037	0	0.0107	0.00267
N261		131	0	Patch	1	1.340	1.500	3.810	0.000	0.010	0.010	0.352	0.000	0.394	0.003	0.003	0.510	0.580	1.740	0.000	0.010	0.010	0.13386	0.13386	0.45669	0	0.00262	0.00262
N261		132	0	Patch	2	1.590	1.250	3.950	0.000	0.010	0.010	0.403	0.000	0.316	0.003	0.003	0.610	0.500	1.740	0.000	0.010	0.010	0.15443	0.15443	0.44051	0	0.00253	0.00253
N261		137	0	Patch	2	2.360	1.840	6.170	0.010	0.080	0.030	0.382	0.002	0.298	0.013	0.005	1.010	0.730	2.250	0.010	0.080	0.030	0.1637	0.1637	0.36467	0.00162	0.01297	0.00486
N261		138	0	Patch	2	3.550	2.390	7.300	0.020	0.030	0.010	0.486	0.003	0.327	0.004	0.001	1.660	0.960	3.670	0.020	0.030	0.010	0.2274	0.2274	0.50274	0.00274	0.00411	0.00137
N261		139	0	Patch	2	3.510	3.340	8.360	0.010	0.010	0.020	0.420	0.001	0.400	0.001	0.002	1.560	1.460	4.570	0.010	0.010	0.020	0.1866	0.1866	0.54665	0.0012	0.0012	0.00239
N261		140	0	Patch	2	1.970	1.870	6.280	0.010	0.020	0.030	0.314	0.002	0.298	0.003	0.005	0.840	0.800	2.570	0.010	0.020	0.020	0.13376	0.13376	0.40924	0.00159	0.00318	0.00318
N261		144	0	Patch	2	3.050	3.050	7.610	0.000	0.020	0.020	0.401	0.000	0.401	0.003	0.003	1.340	1.280	3.990	0.000	0.020	0.020	0.17608	0.17608	0.52431	0	0.00263	0.00263
N261		145	0	Patch	2	3.910	3.140	8.410	0.020	0.010	0.000	0.465	0.002	0.373	0.001	0.000	1.810	1.300	4.560	0.020	0.010	0.000	0.21522	0.21522	0.54221	0.00238	0.00119	0
N261		146	0	Patch	2	2.920	3.550	8.130	0.010	0.050	0.010	0.359	0.001	0.437	0.006	0.001	1.270	1.570	4.040	0.010	0.050	0.010	0.15621	0.15621	0.49692	0.00123	0.00615	0.00123
N261		152	0	Patch	2	5.010	3.450	10.580	0.030	0.060	0.070	0.474	0.003	0.326	0.006	0.007	2.190	1.510	4.780	0.020	0.060	0.060	0.20699	0.20699	0.4518	0.00189	0.00567	0.00567
N261		153	0	Patch	4	6.450	4.410	13.510	0.020	0.030	0.030	0.477	0.001	0.326	0.002	0.002	3.140	1.970	7.080	0.020	0.030	0.020	0.23242	0.23242	0.52406	0.00148	0.00222	0.00148
N261		154	0	Patch	4	7.160	6.120	15.670	0.030	0.010	0.010	0.457	0.002	0.391	0.001	0.001	3.540	2.860	8.740	0.020	0.010	0.010	0.22591	0.22591	0.55775	0.00128	0.00064	0.00064
N261		155	0	Patch	4	7.000	6.810	15.950	0.030	0.030	0.010	0.439	0.002	0.427	0.002	0.001	3.540	3.190	9.050	0.030	0.030	0.010	0.22194	0.22194	0.5674	0.00188	0.00188	0.00063
N261		156	0	Patch	4	4.250	4.540	11.270	0.020	0.060	0.050	0.377	0.002	0.403	0.005	0.004	1.970	2.010	5.760	0.020	0.060	0.040	0.1748	0.1748	0.51109	0.00177	0.00532	0.00355
N261		161	0	Patch	4	5.580	3.890	11.860	0.020	0.040	0.050	0.470	0.002	0.328	0.003	0.004	2.580	1.710	5.760	0.020	0.040	0.040	0.21754	0.21754	0.48567	0.00169	0.00337	0.00337
N261		162	0	Patch	4	7.110	5.180	15.010	0.030	0.030	0.020	0.474	0.002	0.345	0.002	0.001	3.480	2.380	8.180	0.020	0.030	0.020	0.23185	0.23185	0.54497	0.00133	0.002	0.00133
N261		163	0	Patch	4	7.190	6.430	15.810	0.040	0.020	0.000	0.455	0.003	0.407	0.001	0.000	3.610	3.000	8.820	0.030	0.020	0.000	0.22834	0.22834	0.55787	0.0019	0.00127	0
N261		164	0	Patch	4	5.610	6.230	13.820	0.020	0.040	0.020	0.406	0.001	0.451	0.003	0.001	2.690	2.850	7.840	0.020	0.040	0.020	0.19465	0.19465	0.56729	0.00145	0.00289	0.00145

- QTM0 N261 High channel MIMO

												Max Ratio											Max Ratio					
												0.505	0.003	0.486	0.012	0.009							0.259	0.259	0.626	0.002	0.011	0.007
N261	129	1	0	Patch	2	3.520	2.950	7.860	0.010	0.080	0.030	0.448	0.001	0.375	0.010	0.004	1.370	1.220	3.420	0.010	0.080	0.020	0.1743	0.1743	0.43511	0.00127	0.01018	0.00254
N261	131	3	0	Patch	2	4.090	4.100	8.650	0.020	0.030	0.040	0.473	0.002	0.474	0.003	0.005	1.590	1.690	3.840	0.010	0.030	0.030	0.18382	0.18382	0.44393	0.00116	0.00347	0.00347
N261	132	4	0	Patch	2	4.130	4.040	8.620	0.020	0.030	0.040	0.479	0.002	0.469	0.003	0.005	1.650	1.630	3.660	0.010	0.030	0.040	0.19142	0.19142	0.42459	0.00116	0.00348	0.00464
N261	137	9	0	Patch	4	5.660	5.240	14.100	0.030	0.170	0.110	0.401	0.002	0.372	0.012	0.008	2.440	2.480	5.560	0.030	0.150	0.100	0.17305	0.17305	0.39433	0.00213	0.01064	0.00709
N261	138	10	0	Patch	4	7.700	7.860	16.170	0.050	0.080	0.070	0.476	0.003	0.486	0.005	0.004	3.540	3.560	8.120	0.040	0.070	0.060	0.21892	0.21892	0.50216	0.00247	0.00433	0.00371
N261	139	11	0	Patch	4	8.020	7.550	18.300	0.020	0.030	0.050	0.438	0.001	0.413	0.002	0.003	3.610	3.220	11.000	0.020	0.030	0.050	0.19727	0.19727	0.60109	0.00109	0.00164	0.00273
N261	140	12	0	Patch	4	7.130	4.950	14.480	0.030	0.060	0.050	0.492	0.002	0.342	0.004	0.003	3.250	2.200	7.880	0.020	0.060	0.050	0.22445	0.22445	0.5442	0.00138	0.00414	0.00345
N261	144	16	0	Patch	4	6.770	6.490	16.470	0.030	0.070	0.060	0.411	0.002	0.394	0.004	0.004	2.950	2.550	8.510	0.020	0.060	0.050	0.17911	0.17911	0.5167	0.00121	0.00364	0.00304
N261	145	17	0	Patch	4	9.260	8.160	18.570	0.030	0.030	0.020	0.499	0.002	0.439	0.002	0.001	4.340	3.330	11.010	0.020	0.030	0.020	0.23371	0.23371	0.59289	0.00108	0.00162	0.00108
N261	146	18	0	Patch	4	8.790	8.320	18.210	0.030	0.110	0.020	0.483	0.002	0.457	0.006	0.001	3.940	3.730	9.190	0.020	0.100	0.020	0.21636	0.21636	0.50467	0.0011	0.00549	0.0011
N261	152	24	0	Patch	8	11.200	10.350	28.060	0.080	0.170	0.240	0.399	0.003	0.369	0.006	0.009	4.920	4.160	12.620	0.060	0.170	0.210	0.17534	0.17534	0.44975	0.00214	0.00606	0.00748
N261	153	25	0	Patch	8	11.930	11.240	27.710	0.060	0.100	0.110	0.431	0.002	0.406	0.004	0.004	6.000	4.840	15.150	0.050	0.090	0.100	0.21653	0.21653	0.54673	0.0018	0.00325	0.00361
N261	154	26	0	Patch	8	17.510	14.660	36.110	0.050	0.060	0.040	0.485	0.001	0.406	0.002	0.001	8.900	6.850	22.430	0.050	0.050	0.030	0.24647	0.24647	0.62116	0.00138	0.00138	0.00083
N261	155	27	0	Patch	8	16.970	14.230	35.730	0.080	0.100	0.040	0.475	0.002	0.398	0.003	0.001	8.730	6.850	22.120	0.060	0.100	0.030	0.24433	0.24433	0.61909	0.00168	0.0028	0.00084
N261	156	28	0	Patch	8	12.630	10.630	29.080	0.070	0.140	0.100	0.434	0.002	0.366	0.005	0.003	5.830	4.750	13.700	0.060	0.130	0.090	0.20048	0.20048	0.47111	0.00206	0.00447	0.00309
N261	161	33	0	Patch	8	11.740	10.830	28.350	0.070	0.110	0.110	0.414	0.002	0.382	0.004	0.004	5.380	4.610	13.610	0.060	0.110	0.090	0.18977	0.18977	0.48007	0.00212	0.00388	0.00317
N261	162	34	0	Patch	8	15.760	13.040	33.980	0.050	0.100	0.070	0.464	0.001	0.384	0.003	0.002	7.870	6.010	20.230	0.040	0.090	0.070	0.23161	0.23161	0.59535	0.00118	0.00265	0.00206
N261	163	35	0	Patch	8	17.760	14.290	35.170	0.060	0.030	0.020	0.505	0.002	0.406	0.001	0.001	9.120	6.720	22.020	0.050	0.030	0.020	0.25931	0.25931	0.6261	0.00142	0.00085	0.00057
N261	164	36	0	Patch	8	13.350	12.730	30.280	0.070	0.130	0.070	0.441	0.002	0.420	0.004	0.002	6.900	5.990	18.120	0.050	0.130	0.070	0.22787	0.22787	0.59841	0.00165	0.00429	0.00231

- QTM1 N261 High channel SISO

												Max Ratio											Max Ratio					
												0.546	0.005	0.506	0.020	0.010							0.263	0.263	0.004	0.580	0.019	0.009
n261Mid 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
N261		0	1	Patch	1	1.59	1.19	0.01	3.41	0.01	0.01	0.466	0.003	0.349	0.003	0.003	0.600	0.460	0.010	1.570	0.010	0.010	0.17595	0.17595	0.00293	0.46041	0.00293	0.00293
N261		2	1	Patch	1	1.43	1.4	0	3.69	0.02	0.01	0.388	0.000	0.379	0.005	0.003	0.540	0.530	0.000	1.660	0.020	0.010	0.14634	0.14634	0	0.44986	0.00542	0.00271
N261		5	1	Patch	2	2.22	1.55	0.03	5.56	0.05	0.01	0.399	0.005	0.279	0.009	0.002	1.040	0.610	0.020	2.340	0.050	0.010	0.18705	0.18705	0.0036	0.42086	0.00899	0.0018
N261		6	1	Patch	2	3.35	2.27	0.02	6.54	0.02	0	0.512	0.003	0.347	0.003	0.000	1.580	0.920	0.010	3.660	0.020	0.000	0.24159	0.24159	0.00153	0.55963	0.00306	0
N261		7	1	Patch	2	2.28	3.1	0.02	6.58	0.05	0.01	0.347	0.003	0.471	0.008	0.002	1.020	1.270	0.020	3.330	0.050	0.010	0.15502	0.15502	0.00304	0.50608	0.0076	0.00152
N261		8	1	Patch	2	1.96	2.21	0.02	5.79	0.07	0.02	0.339	0.003	0.382	0.012	0.003	0.680	0.860	0.020	2.090	0.060	0.020	0.11744	0.11744	0.00345	0.36097	0.01036	0.00345
N261		13	1	Patch	2	3.87	2.37	0.02	7.19	0.01	0.01	0.538	0.003	0.330	0.001	0.001	1.800	0.990	0.010	3.870	0.010	0.010	0.25035	0.25035	0.00139	0.53825	0.00139	0.00139
N261		14	1	Patch	2	3.83	3.33	0.01	8.19	0.02	0.01	0.468	0.001	0.407	0.002	0.001	1.680	1.410	0.010	4.500	0.020	0.010	0.20513	0.20513	0.00122	0.54945	0.00244	0.00122
N261		15	1	Patch	2	2.34	2.15	0.01	5.67	0.04	0.02	0.413	0.002	0.379	0.007	0.004	1.010	0.910	0.010	2.580	0.040	0.020	0.17813	0.17813	0.00176	0.45503	0.00705	0.00353
N261		19	1	Patch	4	5.7	3.54	0.02	10.8	0.08	0.01	0.528	0.002	0.328	0.007	0.001	2.780	1.630	0.010	5.710	0.070	0.010	0.25741	0.25741	0.00093	0.5287	0.00648	0.00093
N261		20	1	Patch	4	7.82	5.56	0.02	15.05	0.03	0.01	0.520	0.001	0.369	0.002	0.001	3.810	2.710	0.020	8.550	0.030	0.010	0.25316	0.25316	0.00133	0.56811	0.00199	0.00066
N261		21	1	Patch	4	6.84	6.58	0.02	14.98	0.02	0.01	0.457	0.001	0.439	0.001	0.001	3.490	3.140	0.020	8.690	0.020	0.010	0.23298	0.23298	0.00134	0.58011	0.00134	0.00067
N261		22	1	Patch	4	5.16	6.4	0.02	12.86	0.06	0.01	0.401	0.002	0.498	0.005	0.001	2.460	2.940	0.020	6.930	0.050	0.010	0.19129	0.19129	0.00156	0.53888	0.00389	0.00078
N261		23	1	Patch	4	2.84	3.73	0.03	7.86	0.16	0.08	0.361	0.004	0.475	0.020	0.010	1.330	1.470	0.020	3.710	0.150	0.070	0.16921	0.16921	0.00254	0.47201	0.01908	0.00891
N261		29	1	Patch	4	6.63	4.4	0.02	12.76	0.04	0.01	0.520	0.002	0.345	0.003	0.001	3.250	2.110	0.020	6.880	0.040	0.010	0.2547	0.2547	0.00157	0.53918	0.00313	0.00078
N261		30	1	Patch	4	7.49	6.07	0.03	15.25	0.01	0.01	0.491	0.002	0.398	0.001	0.001	3.730	2.960	0.020	8.820	0.010	0.010	0.24459	0.24459	0.00131	0.57836	0.00066	0.00066
N261		31	1	Patch	4	6.06	6.8	0.03	14.41	0.05	0.01	0.421	0.002	0.472	0.003	0.001	3.010	3.180	0.020	8.140	0.040	0.010	0.20888	0.20888	0.00139	0.56489	0.00278	0.00069
N261		32	1	Patch	4	3.87	5.16	0.03	10.19	0.11	0.05	0.380	0.003	0.506	0.011	0.005	1.800	2.220	0.020	5.150	0.100	0.050	0.17664	0.17664	0.00196	0.5054	0.00981	0.00491
N261		128	1	Patch	4	1.39	1.31	0.01	3.48	0.01	0.01	0.399	0.003	0.376	0.003	0.003	0.530	0.480	0.000	1.670	0.010	0.000	0.1523	0.1325	0	0.47989	0.00287	0
N261		130	1	Patch	1	1.55	1.01	0.01	3.28	0.02	0.01	0.473	0.003	0.308	0.006	0.003	0.590	0.380	0.010	1.440	0.020	0.010	0.17988	0.17988	0.00305	0.43902	0.0061	0.00305
N261		133	1	Patch	1	2.04	1.71	0.02	5.09	0.05	0.01	0.401	0.004	0.336	0.010	0.002	0.810	0.690	0.020	2.140	0.050	0.010	0.15914	0.15914	0.00393	0.42043	0.00982	0.00196
N261		134	1	Patch	2	3.52	2.86	0.02	7.44	0.02	0	0.473	0.003	0.384	0.003	0.000	1.600	1.170	0.020	4.090	0.020	0.000	0.21505	0.21505	0.00269	0.54973	0.00269	0
N261		135	1	Patch	2	3.68	2.98	0.01	7.72	0.02	0.01	0.477	0.001	0.386	0.003	0.001	1.620	1.240	0.010	4.280	0.020	0.010	0.20984	0.20984	0.0013	0.5544	0.00259	0.0013
N261		136	1	Patch	2	2.87	1.63	0.02	6.11	0.04	0.01	0.470	0.003	0.267	0.007	0.002	1.310	0.670	0.020	2.740	0.030	0.010	0.2144	0.2144	0.00327	0.44845	0.00491	0.00164
N261		141	1	Patch	2	2.56	2.17	0.02	5.99	0.04	0.01	0.427	0.003	0.362	0.007	0.002	1.130	0.900	0.020	2.910	0.040	0.010	0.18865	0.18865	0.00334	0.48581	0.00668	0.00167
N261		142	1	Patch	2	4.02	3.14	0.01	7.91	0.01	0	0.508	0.001	0.397	0.001	0.000	1.780	1.380	0.010	4.550	0.010	0.000	0.22503	0.22503	0.00126	0.57522	0.00126	0
N261		143	1	Patch	2	2.98	2.41	0.02	6.6	0.04	0.02	0.452	0.003	0.365	0.006	0.003	1.280	1.040	0.010	3.300	0.030	0.020	0.19394	0.19394	0.00152	0.5	0.00455	0.00303
N261		147	1	Patch	2	3.02	3.91	0.04	8.38	0.1	0.04	0.360	0.005	0.467	0.012	0.005	1.480	1.650	0.020	4.300	0.100	0.030	0.17661	0.17661	0.00239	0.51313	0.01193	0.00358
N261		148	1	Patch	4	5.42	5.89	0.03	13.07	0.01	0.03	0.415	0.002	0.451	0.001	0.002	2.490	2.730	0.020	7.130	0.010	0.020	0.19051	0.19051	0.00153	0.54552	0.00077	0.00153
N261		149	1	Patch	4	7.05	5.08	0.04	13.88	0.03	0.01	0.508	0.003	0.366	0.002	0.001	3.400	2.360	0.040	7.760	0.030	0.010	0.24496	0.24496	0.00288	0.55908	0.00216	0.00072
N261		150	1	Patch	4	6.81	4.26	0.02	12.55	0.04	0.01	0.543	0.002	0.339	0.003	0.001	3.170	1.920	0.010	6.730	0.040	0.010	0.25259	0.25259	0.0008	0.53625	0.00319	0.0008
N261		151	1	Patch	4	5.16	3.13	0.02	9.65	0.08	0.03	0.535	0.002	0.324	0.008	0.003	2.380	1.420	0.010	4.920	0.080	0.030	0.24663	0.24663	0.00104	0.50984	0.00829	0.00311
N261		157	1	Patch	4	3.99	4.87	0.02	10.42	0.06	0.02	0.383	0.002	0.467	0.006	0.002	1.930	2.260	0.020	5.630	0.060	0.020	0.18522	0.18522	0.00192	0.54031	0.00576	0.00192
N261		158	1	Patch	4	6.45	6	0.04	14.28	0.01	0.01	0.452	0.003	0.420	0.001	0.001	3.100	2.810	0.030	7.850	0.010	0.010	0.21709	0.21709	0.0021	0.54972	0.0007	0.0007
N261		159	1	Patch	4	7.2	4.5	0.04	13.19	0.04	0.01	0.546	0.003	0.341	0.003	0.001	3.470	2.050	0.030	7.370	0.040	0.010	0.26308	0.26308	0.00227	0.55876	0.00303	0.00076
N261		160	1	Patch	4	6.32	3.93	0.01	11.62	0.05	0.01	0.544	0.001	0.338	0.004	0.001	2.960	1.800	0.010	6.180	0.050	0.010	0.25473	0.25473	0.00086	0.53184	0.0043	0.00086

- QTM1 N261 High channel MIMO

												Max Ratio											Max Ratio					
												0.551	0.005	0.468	0.013	0.007							0.266	0.266	0.003	0.617	0.012	0.007
N261	128	0	1	Patch	2	3.9	3.29	0.02	7.24	0.04	0.02	0.539	0.003	0.454	0.006	0.003	1.530	1.310	0.020	3.440	0.040	0.020	0.21133	0.21133	0.00276	0.47514	0.00552	0.00276
N261	130	2	1	Patch	2	3.99	3.26	0.02	7.45	0.08	0.02	0.536	0.003	0.438	0.011	0.003	1.530	1.280	0.010	3.360	0.070	0.020	0.20537	0.20537	0.00134	0.45101	0.0094	0.00268
N261	133	5	1	Patch	2	5.55	3.53	0.06	12.16	0.13	0.04	0.456	0.005	0.290	0.011	0.003	2.370	1.410	0.030	5.280	0.130	0.040	0.1949	0.1949	0.00247	0.43421	0.01069	0.00329
N261	134	6	1	Patch	4	8.41	6.01	0.04	15.68	0.05	0.02	0.536	0.003	0.383	0.003	0.001	4.020	2.470	0.030	9.410	0.050	0.010	0.25638	0.25638	0.00191	0.60013	0.00319	0.00064
N261	135	7	1	Patch	4	6.63	7.05	0.04	15.06	0.09	0.03	0.440	0.003	0.468	0.006	0.002	2.950	3.160	0.030	8.570	0.090	0.030	0.19588	0.19588	0.00199	0.56906	0.00598	0.00199
N261	136	8	1	Patch	4	5.65	5.26	0.05	12.96	0.14	0.05	0.436	0.004	0.406	0.011	0.004	2.520	2.310	0.040	5.420	0.130	0.050	0.19444	0.19444	0.00309	0.41821	0.01003	0.00386
N261	141	13	1	Patch	4	8.32	4.65	0.06	15.11	0.07	0.04	0.551	0.004	0.308	0.005	0.003	3.730	2.080	0.050	7.710	0.070	0.030	0.24686	0.24686	0.00331	0.51026	0.00463	0.00199
N261	142	14	1	Patch	4	8.84	7.17	0.02	17.39	0.03	0.02	0.508	0.001	0.412	0.002	0.001	4.250	2.970	0.020	10.170	0.030	0.010	0.24439	0.24439	0.00115	0.58482	0.00173	0.00058
N261	143	15	1	Patch	4	5.67	5.11	0.05	12.88	0.08	0.05	0.440	0.004	0.397	0.006	0.004	2.380	1.960	0.030	6.280	0.080	0.040	0.18478	0.18478	0.00233	0.48758	0.00621	0.00311
N261	147	19	1	Patch	8	10.29	9.77	0.11	23.39	0.21	0.08	0.440	0.005	0.418	0.009	0.003	5.020	4.010	0.070	11.580	0.210	0.070	0.21462	0.21462	0.00299	0.49508	0.00898	0.00299
N261	148	20	1	Patch	8	15.36	12.67	0.08	31.64	0.07	0.05	0.485	0.003	0.400	0.002	0.002	7.560	6.040	0.060	18.970	0.070	0.040	0.23894	0.23894	0.0019	0.59956	0.00221	0.00126
N261	149	21	1	Patch	8	17.33	13.48	0.07	33.62	0.09	0.02	0.515	0.002	0.401	0.003	0.001	8.950	6.560	0.060	20.760	0.080	0.020	0.26621	0.26621	0.00178	0.61749	0.00238	0.00059
N261	150	22	1	Patch	8	12.4	11.5	0.06	27.27	0.14	0.04	0.455	0.002	0.422	0.005	0.001	5.970	5.350	0.050	15.710	0.130	0.040	0.21892	0.21892	0.00183	0.57609	0.00477	0.00147
N261	151	23	1	Patch	8	10.14	9.55	0.06	23.35	0.3	0.17	0.434	0.003	0.409	0.013	0.007	4.810	3.900	0.050	11.080	0.270	0.160	0.206	0.206	0.00214	0.47452	0.01156	0.00685
N261	157	29	1	Patch	8	11.41	10.43	0.07	24.85	0.12	0.05	0.459	0.003	0.420	0.005	0.002	5.700	4.650	0.050	12.930	0.120	0.040	0.22938	0.22938	0.00201	0.52032	0.00483	0.00161
N261	158	30	1	Patch	8	17.17	13.53	0.07	33.79	0.04	0.04	0.508	0.002	0.400	0.001	0.001	8.750	6.620	0.060	20.720	0.040	0.030	0.25895	0.25895	0.00178	0.6132	0.00118	0.00089
N261	159	31	1	Patch	8	16.12	13.16	0.07	32.53	0.1	0.02	0.496	0.002	0.405	0.003	0.001	8.090	6.240	0.060	19.530	0.090	0.020	0.24869	0.24869	0.00184	0.60037	0.00277	0.00061
N261	160	32	1	Patch	8	10.85	10.8	0.05	24.22	0.2	0.11	0.448	0.002	0.446	0.008	0.005	5.070	4.620	0.040	11.750	0.180	0.100	0.20933	0.20933	0.00165	0.48514	0.00743	0.00413

- QTM0 N260 LOW channel SISO

													Max Ratio												Max Ratio					
													0.420	0.001	0.516	0.014	0.009							0.211	0.262	0.580	0.001	0.013	0.008
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	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type		Num. of ant	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	1.15	1.2	3.71	0	0.02	0.01	0.310	0.000	0.323	0.005	0.003	0.410	0.400	1.510	0.000	0.020	0.010	0.11051	0.10782	0.40701	0	0.00539	0.0027
N260		3	0	Patch		1	1.72	1.33	4.83	0	0.02	0.02	0.356	0.000	0.275	0.004	0.004	0.670	0.410	2.000	0.000	0.020	0.020	0.13872	0.08489	0.41408	0	0.00414	0.00414
N260		4	0	Patch		1	1.27	1.87	4.89	0	0.02	0.01	0.260	0.000	0.382	0.004	0.002	0.380	0.620	2.060	0.000	0.020	0.010	0.07771	0.12679	0.42127	0	0.00409	0.00204
N260		5	0	Patch		2	0.87	1.37	3.6	0	0.02	0.01	0.242	0.000	0.381	0.006	0.003	0.280	0.420	1.470	0.000	0.020	0.010	0.07778	0.11667	0.40833	0	0.00556	0.00278
N260		10	0	Patch		2	2.23	3.15	8.54	0	0.03	0.05	0.261	0.000	0.369	0.004	0.006	0.910	1.370	3.490	0.000	0.030	0.040	0.10656	0.16042	0.40867	0	0.00351	0.00468
N260		11	0	Patch		2	3.06	3.22	9.61	0	0.06	0.03	0.318	0.000	0.335	0.006	0.003	1.360	1.490	4.070	0.000	0.050	0.020	0.14152	0.15505	0.42352	0	0.0052	0.00208
N260		12	0	Patch		2	2.36	2.5	7.72	0	0.01	0.04	0.306	0.000	0.324	0.001	0.005	1.120	1.170	3.350	0.000	0.010	0.040	0.14508	0.15155	0.43394	0	0.0013	0.00518
N260		13	0	Patch		2	2.21	2.89	8.98	0	0.06	0.03	0.246	0.000	0.322	0.007	0.003	0.740	1.070	3.000	0.000	0.060	0.030	0.08241	0.11915	0.33408	0	0.00668	0.00334
N260		17	0	Patch		2	2.94	2.33	8.5	0	0.06	0.02	0.346	0.000	0.274	0.007	0.002	1.310	0.980	3.480	0.000	0.050	0.020	0.15412	0.11529	0.40941	0	0.00588	0.00235
N260		18	0	Patch		2	2.07	3.41	7.19	0	0.02	0.01	0.288	0.000	0.474	0.003	0.001	0.900	1.560	3.750	0.000	0.020	0.010	0.12517	0.21697	0.52156	0	0.00278	0.00139
N260		19	0	Patch		2	2.5	2.29	8.72	0	0.02	0.04	0.287	0.000	0.263	0.002	0.005	1.020	0.830	2.940	0.000	0.020	0.040	0.11697	0.09518	0.33716	0	0.00229	0.00459
N260		25	0	Patch		4	4.59	5.25	15.03	0.01	0.02	0.12	0.305	0.001	0.349	0.001	0.008	1.860	2.180	6.350	0.000	0.020	0.110	0.12375	0.14504	0.42249	0	0.00133	0.00732
N260		26	0	Patch		4	5.07	6.02	14.21	0.01	0.14	0.01	0.357	0.001	0.424	0.010	0.001	2.420	2.910	7.230	0.010	0.140	0.010	0.1703	0.20479	0.5088	0.0007	0.00985	0.0007
N260		27	0	Patch		4	4.39	4.39	10.45	0	0.05	0.05	0.420	0.000	0.420	0.005	0.005	2.210	2.000	5.940	0.000	0.040	0.040	0.21148	0.19139	0.56842	0	0.00383	0.00383
N260		28	0	Patch		4	4.57	6.38	13.67	0.01	0.02	0.11	0.334	0.001	0.467	0.001	0.008	2.230	3.110	7.100	0.010	0.020	0.100	0.16313	0.22751	0.51939	0.00073	0.00146	0.00732
N260		29	0	Patch		4	4.52	4.66	15.73	0.01	0.13	0.05	0.287	0.001	0.296	0.008	0.003	1.650	1.730	5.550	0.000	0.110	0.040	0.1049	0.10998	0.35283	0	0.00699	0.00254
N260		34	0	Patch		4	5.04	4.64	15.18	0.01	0.21	0.01	0.332	0.001	0.306	0.014	0.001	2.130	1.860	6.320	0.000	0.200	0.010	0.14032	0.12253	0.41634	0	0.01318	0.00066
N260		35	0	Patch		4	4.65	5.72	12.14	0.01	0.05	0.01	0.383	0.001	0.471	0.004	0.001	2.360	2.840	6.850	0.010	0.050	0.010	0.1944	0.23394	0.56425	0.00082	0.00412	0.00082
N260		36	0	Patch		4	4.23	5.95	11.92	0.01	0.01	0.05	0.355	0.001	0.499	0.001	0.004	2.070	2.910	6.780	0.010	0.010	0.050	0.17366	0.24413	0.56879	0.00084	0.00084	0.00419
N260		37	0	Patch		1	4.75	5.74	14.75	0.01	0.02	0.13	0.322	0.001	0.389	0.001	0.009	2.130	2.600	6.870	0.000	0.020	0.120	0.14441	0.17627	0.46576	0	0.00136	0.00814
N260		129	0	Patch		1	1.23	1.61	4.05	0	0.02	0.01	0.304	0.000	0.398	0.005	0.002	0.430	0.560	1.630	0.000	0.010	0.010	0.10617	0.13827	0.40247	0	0.00247	0.00247
N260		131	0	Patch		2	1.05	1.85	4.47	0	0.02	0.01	0.235	0.000	0.414	0.004	0.002	0.320	0.680	1.880	0.000	0.020	0.010	0.07159	0.15213	0.42058	0	0.00447	0.00224
N260		132	0	Patch		2	1.4	1.19	3.93	0	0.02	0.01	0.356	0.000	0.303	0.005	0.003	0.500	0.390	1.700	0.000	0.020	0.010	0.12723	0.09924	0.43257	0	0.00509	0.00254
N260		133	0	Patch		2	0.94	0.93	3.29	0	0.01	0.01	0.286	0.000	0.283	0.003	0.003	0.330	0.310	1.240	0.000	0.010	0.010	0.1003	0.09422	0.3769	0	0.00304	0.00304
N260		138	0	Patch		2	2.46	2.71	8.6	0	0.02	0.04	0.286	0.000	0.315	0.002	0.005	0.820	1.100	2.950	0.000	0.020	0.040	0.09535	0.12791	0.34302	0	0.00233	0.00465
N260		139	0	Patch		2	2.22	3.23	7.29	0	0.06	0.01	0.305	0.000	0.443	0.008	0.001	0.910	1.520	3.530	0.000	0.050	0.010	0.12483	0.2085	0.48422	0	0.00686	0.00137
N260		140	0	Patch		2	2.28	3.44	7.68	0	0.02	0.02	0.297	0.000	0.448	0.003	0.003	1.040	1.580	3.680	0.000	0.020	0.020	0.13542	0.20573	0.47917	0	0.0026	0.0026
N260		141	0	Patch		2	2.22	2.91	8.56	0	0.05	0.03	0.259	0.000	0.340	0.006	0.004	0.810	1.190	2.860	0.000	0.050	0.030	0.09463	0.13902	0.33411	0	0.00584	0.0035
N260		145	0	Patch		2	2.03	1.8	6.99	0	0.06	0	0.290	0.000	0.258	0.009	0.000	0.860	0.770	2.500	0.000	0.060	0.000	0.12303	0.11016	0.35765	0	0.00858	0
N260		146	0	Patch		2	2.58	2.82	6.8	0	0.02	0.02	0.379	0.000	0.415	0.003	0.003	1.150	1.220	3.560	0.000	0.020	0.020	0.16912	0.17941	0.52353	0	0.00294	0.00294
N260		147	0	Patch		4	2.42	2.31	7.5	0	0.04	0.03	0.323	0.000	0.308	0.005	0.004	1.050	0.930	3.100	0.000	0.040	0.020	0.14	0.124	0.41333	0	0.00533	0.00267
N260		153	0	Patch		4	4.77	4.8	13.96	0.01	0.03	0.11	0.342	0.001	0.344	0.002	0.008	1.870	1.860	5.890	0.010	0.020	0.100	0.13395	0.13324	0.42192	0.00072	0.00143	0.00716
N260		154	0	Patch		4	4	5.56	11.98	0.01	0.13	0.03	0.334	0.001	0.464	0.011	0.003	1.990	2.770	6.230	0.000	0.120	0.020	0.16611	0.23122	0.52003	0	0.01002	0.00167
N260		155	0	Patch		4	4.11	4.58	10.4	0.01	0.06	0.05	0.395	0.001	0.440	0.006	0.005	2.070	2.230	5.610	0.010	0.060	0.040	0.19904	0.21442	0.53942	0.00096	0.00577	0.00385
N260		156	0	Patch		4	5.39	5.71	13.4	0.01	0.03	0.05	0.402	0.001	0.426	0.002	0.004	2.600	2.780	7.150	0.010	0.030	0.050	0.19403	0.20746	0.53358	0.00075	0.00224	0.00373
N260		157	0	Patch		4	3.92	4.6	14.44	0.01	0.12	0.04	0.271	0.001	0.319	0.008	0.003	1.560	1.700	4.920	0.000	0.110	0.040	0.10803	0.11773	0.34072	0	0.00762	0.00277
N260		162	0	Patch		4	3.84	4.89	13.81	0.01	0.17	0.03	0.278	0.001	0.354	0.012	0.002	1.690	2.330	5.760	0.000	0.160	0.030	0.12238	0.16872	0.41709	0	0.01159	0.00217
N260		163	0	Patch		4	3.79	5.49	10.63	0.01	0.07	0.01	0.357	0.001	0.516	0.007	0.001	1.900	2.790	6.030	0.000	0.070	0.010	0.17874	0.26246	0.56726	0	0.00659	0.00094
N260		164	0	Patch		4	4.83	6	12.28	0.01	0.03	0.04	0.393	0.001	0.489	0.002	0.003	2.340	2.980	7.120	0.010	0.030	0.030	0.19055	0.24267	0.5798	0.00081	0.00244	0.00244
N260		165	0	Patch		4	4.85	4.87	14.23	0.01	0.04	0.1	0.341	0.001	0.342	0.003	0.007	2.060	2.160	6.090	0.010	0.030	0.090	0.14476	0.15179	0.42797	0.0007	0.00211	0.00632

- QTM0 N260 LOW channel MIMO

													Max Ratio												Max Ratio					
													0.390	0.001	0.485	0.015	0.009							0.193	0.243	0.604	0.001	0.014	0.008
N260	129	1	0	Patch		2	2.98	3.31	8.49	0	0.05	0.03	0.351	0.000	0.390	0.006	0.004	1.050	1.200	3.480	0.000	0.040	0.030	0.12367	0.14134	0.40989	0	0.00471	0.00353
N260	131	3	0	Patch		2	2.93	3.68	9.81	0	0.07	0.04	0.299	0.000	0.375	0.007	0.004	1.010	1.350	4.240	0.000	0.070	0.040	0.10296	0.13761	0.43221	0	0.00714	0.00408
N260	132	4	0	Patch		2	2.83	3.53	9.24	0	0.06	0.05	0.306	0.000	0.382	0.006	0.005	0.960	1.190	4.200	0.000	0.060	0.040	0.1039	0.12879	0.45455	0	0.00649	0.00433
N260	133	5	0	Patch		2	2.09	2.65	7.25	0	0.04	0.04	0.288	0.000	0.366	0.006	0.006	0.740	1.000	3.120	0.000	0.040	0.040	0.10207	0.13793	0.43034	0	0.00552	0.00552
N260	138	10	0	Patch		4	4.78	5.85	15	0.01	0.06	0.12	0.319	0.001	0.390	0.004	0.008	1.790	2.510	6.670	0.010	0.060	0.110	0.11933	0.16733	0.44467	0.00067	0.004	0.00733
N260	139	11	0	Patch		4	5.38	7.19	18.02	0.01	0.16	0.04	0.299	0.001	0.399	0.009	0.002	2.460	3.250	7.880	0.000	0.150	0.040	0.13651	0.18036	0.43729	0	0.00832	0.00222
N260	140	12	0	Patch		4	5.37	6.82	16.71	0.01	0.04	0.09	0.321	0.001	0.408	0.002	0.005	2.630	3.280	7.970	0.000	0.030	0.080	0.15739	0.19629	0.47696	0	0.0018	0.00479
N260	141	13	0	Patch		4	4.31	5.57	14.99	0.01	0.15	0.1	0.288	0.001	0.372	0.010	0.007	1.400	2.030	6.000	0.010	0.140	0.090	0.0934	0.13542	0.40027	0.00067	0.00934	0.006
N260	145	17	0	Patch		4	5.21	4.11	13.35	0.01	0.16	0.03	0.390	0.001	0.308	0.012	0.002	2.380	1.790	6.360	0.010	0.150	0.030	0.17828	0.13408	0.4764	0.00075	0.01124	0.00225
N260	146	18	0	Patch		4	4.86	6.69	14.35	0.01	0.08	0.06	0.339	0.001	0.466	0.006	0.004	1.860	3.220	7.610	0.010	0.070	0.060	0.12962	0.22439	0.53031	0.0007	0.00488	0.00418
N260	147	19	0	Patch		4	5.06	4.65	13.92	0.01	0.07	0.08	0.364	0.001	0.334	0.005	0.006	2.240	1.860	6.370	0.010	0.070	0.070	0.16092	0.13362	0.45761	0.00072	0.00503	0.00503
N260	153	25	0	Patch		8	11.04	12.29	33.39	0.02	0.06	0.28	0.331	0.001	0.368	0.002	0.008	3.930	4.420	13.380	0.020	0.050	0.240	0.1177	0.13237	0.40072	0.0006	0.0015	0.00719
N260	154	26	0	Patch		8	9.74	12.55	27.81	0.02	0.38	0.06	0.350	0.001	0.451	0.014	0.002	4.800	6.140	14.360	0.020	0.360	0.050	0.1726	0.22078	0.51636	0.00072	0.01294	0.0018
N260	155	27	0	Patch		8	10.33	12.17	26.86	0.01	0.14	0.15	0.385	0.000	0.453	0.005	0.006	5.010	5.970	14.270	0.010	0.130	0.130	0.18652	0.22226	0.53127	0.00037	0.00484	0.00484
N260	156	28	0	Patch		8	11.12	13.47	29.29	0.03	0.09	0.18	0.380	0.001	0.460	0.003	0.006	5.520	6.710	15.010	0.020	0.090	0.170	0.18846	0.22909	0.51246	0.00068	0.00307	0.0058
N260	157	29	0	Patch		8	9.99	11.33	33.62	0.02	0.28	0.11	0.297	0.001	0.337	0.008	0.003	3.790	3.940	11.700	0.010	0.260	0.090	0.11273	0.11719	0.34801	0.0003	0.00773	0.00268
N260	162	34	0	Patch		8	10.25	11.31	32.12	0.02	0.47	0.06	0.319	0.001	0.352	0.015	0.002	4.270	4.730	12.810	0.020	0.440	0.060	0.13294	0.14726	0.39882	0.00062	0.0137	0.00187
N260	163	35	0	Patch		8	9.11	11.73	24.29	0.02	0.16	0.03	0.375	0.001	0.483	0.007	0.001	4.660	5.790	14.660	0.010	0.150	0.030	0.19185	0.23837	0.60354	0.00041	0.00618	0.00124
N260	164	36	0	Patch		8	10.34	13.21	27.25	0.02	0.05	0.14	0.379	0.001	0.485	0.002	0.005	5.270	6.630	14.590	0.020	0.050	0.130	0.19339	0.2433	0.53541	0.00073	0.00183	0.00477
N260	165	37	0	Patch		8	11.2	12	32.28	0.02	0.06	0.29	0.347	0.001	0.372	0.002	0.009	4.690	5.000	13.870	0.020	0.060	0.260	0.14529	0.15489	0.42968	0.00062	0.00186	0.00805

- QTM1 N260 LOW channel SISO

													Max Ratio												Max Ratio					
													0.448	0.002	0.451	0.014	0.007							0.227	0.224	0.002	0.559	0.014	0.007
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 /	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
N260		0	1	Patch		1	1.7	1.45	0	4.5	0.02	0.01	0.378	0.000	0.322	0.004	0.002	0.62	0.43	0	1.94	0.02	0.01	0.13778	0.09556	0	0.43111	0.00444	0.00222
N260		2	1	Patch		1	1.44	1.64	0	4.35	0.02	0.01	0.331	0.000	0.377	0.005	0.002	0.43	0.54	0	1.94	0.02	0.01	0.09885	0.12414	0	0.44598	0.0046	0.0023
N260		6	1	Patch		2	2.55	2.78	0.01	7.9	0.05	0.02	0.323	0.001	0.352	0.006	0.003	1.06	1.17	0.01	3.3	0.05	0.02	0.13418	0.1481	0.00127	0.41772	0.00633	0.00253
N260		7	1	Patch		2	2.41	2.88	0	6.73	0.05	0	0.358	0.000	0.428	0.007	0.000	1.05	1.29	0	3.58	0.05	0	0.15602	0.19168	0	0.53195	0.00743	0
N260		8	1	Patch		2	2.16	2.92	0	7.6	0.01	0.04	0.284	0.000	0.384	0.001	0.005	0.93	1.39	0	3.21	0.01	0.03	0.12237	0.18289	0	0.42237	0.00132	0.00395
N260		9	1	Patch		2	2.58	2.58	0.01	7.85	0.05	0.02	0.329	0.001	0.329	0.006	0.003	0.91	1.04	0	2.84	0.05	0.02	0.11592	0.13248	0	0.36178	0.00637	0.00255
N260		14	1	Patch		2	2.69	2.45	0.01	8.03	0.07	0.01	0.335	0.001	0.305	0.009	0.001	1.19	0.94	0.01	3.13	0.07	0	0.14819	0.11706	0.00125	0.38979	0.00872	0
N260		15	1	Patch		2	3.06	3.15	0.01	7.98	0.03	0.03	0.383	0.001	0.395	0.004	0.004	1.27	1.4	0.01	3.84	0.03	0.03	0.15915	0.17544	0.00125	0.4812	0.00376	0.00376
N260		16	1	Patch		2	3.14	3.08	0.01	9.73	0.07	0.02	0.323	0.001	0.317	0.007	0.002	1.05	1.11	0.01	3.54	0.06	0.02	0.10791	0.11408	0.00103	0.36382	0.00617	0.00206
N260		20	1	Patch		4	4.95	5.07	0.01	13.66	0.12	0.03	0.362	0.001	0.371	0.009	0.002	1.89	1.82	0.01	5.92	0.11	0.03	0.13836	0.13324	0.00073	0.43338	0.00805	0.0022
N260		21	1	Patch		4	5.66	5.28	0.02	13.06	0.12	0.01	0.433	0.002	0.404	0.009	0.001	2.77	2.41	0.02	7.18	0.12	0.01	0.2121	0.18453	0.00153	0.54977	0.00919	0.00077
N260		22	1	Patch		4	4.44	5.11	0.01	11.42	0.03	0.04	0.389	0.001	0.447	0.003	0.004	1.99	2.56	0.01	6.06	0.03	0.04	0.17426	0.22417	0.00088	0.53065	0.00263	0.0035
N260		23	1	Patch		4	4.88	5.44	0.01	13.37	0.02	0.1	0.365	0.001	0.407	0.001	0.007	2.16	2.38	0.01	6.5	0.02	0.09	0.16156	0.17801	0.00075	0.48616	0.0015	0.00673
N260		24	1	Patch		4	4.82	5.03	0.01	13.91	0.15	0.02	0.347	0.001	0.362	0.011	0.001	1.8	1.75	0.01	5.7	0.14	0.02	0.1294	0.12581	0.00072	0.40978	0.01006	0.00144
N260		30	1	Patch		4	5.4	5.34	0.02	12.99	0.18	0.02	0.416	0.002	0.411	0.014	0.002	2.44	2.29	0.01	6.78	0.17	0.02	0.18784	0.17629	0.00077	0.52194	0.01309	0.00154
N260		31	1	Patch		4	4.72	5.09	0.01	11.94	0.07	0.01	0.395	0.001	0.426	0.006	0.001	2.1	2.22	0.01	6.67	0.06	0.01	0.17588	0.18593	0.00084	0.55863	0.00503	0.00084
N260		32	1	Patch		4	4.85	5.71	0.01	12.65	0.01	0.06	0.383	0.001	0.451	0.001	0.005	2.2	2.77	0.01	6.75	0.01	0.06	0.17391	0.21897	0.00079	0.5336	0.00079	0.00474
N260		33	1	Patch		4	4.65	5.2	0.01	13.7	0.05	0.08	0.339	0.001	0.380	0.004	0.006	1.71	1.89	0.01	5.8	0.05	0.08	0.12482	0.13796	0.00073	0.42336	0.00365	0.00584
N260		128	1	Patch		1	1.24	1.53	0	4.05	0.03	0.01	0.306	0.000	0.378	0.007	0.002	0.36	0.56	0	1.75	0.02	0.01	0.08889	0.13827	0	0.4321	0.00494	0.00247
N260		130	1	Patch		1	1.35	1.29	0	3.72	0.02	0.01	0.363	0.000	0.347	0.005	0.003	0.47	0.38	0	1.63	0.02	0.01	0.12634	0.10215	0	0.43817	0.00538	0.00269
N260		134	1	Patch		2	2.25	2.71	0.01	7.92	0.05	0.02	0.284	0.001	0.342	0.006	0.003	0.92	1.11	0	2.86	0.05	0.02	0.11616	0.14015	0	0.36111	0.00631	0.00253
N260		135	1	Patch		2	2.62	2.81	0.01	6.75	0.04	0.01	0.388	0.001	0.416	0.006	0.001	1.1	1.24	0	3.49	0.04	0.01	0.16296	0.1837	0	0.51704	0.00593	0.00148
N260		136	1	Patch		2	2.51	1.89	0	6.51	0.01	0.03	0.386	0.000	0.290	0.002	0.005	1.2	0.85	0	2.84	0.01	0.03	0.18433	0.13057	0	0.43625	0.00154	0.00461
N260		137	1	Patch		2	2.33	2.61	0	8.09	0.07	0.01	0.288	0.000	0.323	0.009	0.001	0.79	0.88	0	2.75	0.06	0.01	0.09765	0.10878	0	0.33993	0.00742	0.00124
N260		142	1	Patch		2	2.62	2.84	0.01	7.64	0.05	0.01	0.343	0.001	0.372	0.007	0.001	1.15	1.17	0	3.44	0.05	0.01	0.15052	0.15314	0	0.45026	0.00654	0.00131
N260		143	1	Patch		2	2.34	2.76	0	6.55	0.01	0.02	0.357	0.000	0.421	0.002	0.003	1.07	1.23	0	3.22	0.01	0.02	0.16336	0.18779	0	0.4916	0.00153	0.00305
N260		144	1	Patch		2	2.33	2.31	0	7.03	0.04	0.03	0.331	0.000	0.329	0.006	0.004	0.9	0.89	0	2.72	0.04	0.03	0.12802	0.1266	0	0.38691	0.00569	0.00427
N260		148	1	Patch		4	4.58	4.86	0.01	12.43	0.17	0.01	0.368	0.001	0.391	0.014	0.001	1.92	1.92	0.01	5.85	0.17	0.01	0.15447	0.15447	0.0008	0.47064	0.01368	0.0008
N260		149	1	Patch		4	4.65	5.19	0.02	11.68	0.09	0.01	0.398	0.002	0.444	0.008	0.001	2.19	2.58	0.01	6.32	0.09	0.01	0.1875	0.22089	0.00086	0.5411	0.00771	0.00086
N260		150	1	Patch		4	4.6	4.27	0.01	10.27	0.02	0.04	0.448	0.001	0.416	0.002	0.004	2.33	2.07	0.01	5.68	0.02	0.03	0.22687	0.20156	0.00097	0.55307	0.00195	0.00292
N260		151	1	Patch		4	4.7	4.65	0.01	12.67	0.03	0.09	0.371	0.001	0.367	0.002	0.007	2.14	2.14	0.01	5.87	0.03	0.08	0.1689	0.1689	0.00079	0.4633	0.00237	0.00631
N260		152	1	Patch		4	4.26	4.74	0.01	13.09	0.16	0.02	0.325	0.001	0.362	0.012	0.002	1.65	1.72	0.01	5.3	0.15	0.02	0.12605	0.1314	0.00076	0.40489	0.01146	0.00153
N260		158	1	Patch		4	4.81	4.83	0.01	12.3	0.17	0.01	0.391	0.001	0.393	0.014	0.001	2.18	2.16	0.01	6.12	0.16	0	0.17724	0.17561	0.00081	0.49756	0.01301	0
N260		159	1	Patch		4	4.37	4.4	0.01	10.42	0.05	0.02	0.419	0.001	0.422	0.005	0.002	2	2.19	0.01	5.63	0.05	0.02	0.19194	0.21017	0.00096	0.54031	0.0048	0.00192
N260		160	1	Patch		4	5.1	4.59	0.01	11.51	0.03	0.06	0.443	0.001	0.399	0.003	0.005	2.53	2.24	0.01	6.13	0.02	0.06	0.21981	0.19461	0.00087	0.53258	0.00174	0.00521
N260		161	1	Patch		4	4.08	4.69	0.01	13.11	0.11	0.05	0.311	0.001	0.358	0.008	0.004	1.66	1.62	0.01	4.93	0.1	0.04	0.12662	0.12357	0.00076	0.37605	0.00763	0.00305

- QTM1 N260 LOW channel MIMO

													Max Ratio												Max Ratio					
													0.467	0.002	0.459	0.015	0.007							0.234	0.223	0.002	0.600	0.015	0.007
N260	128	0	1	Patch		2	3.35	3.51	0.01	9.1	0.06	0.03	0.368	0.001	0.386	0.007	0.003	1.080	1.200	0.010	4.130	0.060	0.030	0.11868	0.13187	0.0011	0.45385	0.00659	0.0033
N260	130	2	1	Patch		2	3.06	3.2	0.01	8.64	0.07	0.04	0.354	0.001	0.370	0.008	0.005	1.000	0.990	0.010	4.000	0.060	0.040	0.11574	0.11458	0.00116	0.46296	0.00694	0.00463
N260	134	6	1	Patch		4	4.83	5.47	0.01	14	0.13	0.05	0.345	0.001	0.391	0.009	0.004	1.750	2.090	0.010	6.000	0.120	0.050	0.125	0.14929	0.00071	0.42857	0.00857	0.00357
N260	135	7	1	Patch		4	5.35	6.48	0.02	14.19	0.14	0.02	0.377	0.001	0.457	0.010	0.001	2.050	2.810	0.010	7.950	0.140	0.020	0.14447	0.19803	0.0007	0.56025	0.00987	0.00141
N260	136	8	1	Patch		4	6.03	5.98	0.01	15.63	0.02	0.1	0.386	0.001	0.383	0.001	0.006	2.910	2.960	0.010	8.040	0.020	0.100	0.18618	0.18938	0.00064	0.5144	0.00128	0.0064
N260	137	9	1	Patch		4	5.89	6.08	0.01	16.9	0.18	0.04	0.349	0.001	0.360	0.011	0.002	2.150	2.410	0.010	6.130	0.170	0.040	0.12722	0.1426	0.00059	0.36272	0.01006	0.00237
N260	142	14	1	Patch		4	6.47	6.17	0.02	16.02	0.13	0.03	0.404	0.001	0.385	0.008	0.002	3.100	2.320	0.010	7.450	0.120	0.020	0.19351	0.14482	0.00062	0.46504	0.00749	0.00125
N260	143	15	1	Patch		4	5.74	6.46	0.01	14.88	0.04	0.09	0.386	0.001	0.434	0.003	0.006	2.210	2.790	0.010	7.890	0.040	0.090	0.14852	0.1875	0.00067	0.53024	0.00269	0.00605
N260	144	16	1	Patch		4	5.59	5.91	0.02	17.01	0.12	0.07	0.329	0.001	0.347	0.007	0.004	2.060	2.070	0.010	6.660	0.120	0.070	0.12111	0.12169	0.00059	0.39153	0.00705	0.00412
N260	148	20	1	Patch		8	10.65	11.72	0.03	28.61	0.33	0.05	0.372	0.001	0.410	0.012	0.002	4.330	4.280	0.020	12.430	0.320	0.050	0.15135	0.1496	0.0007	0.43446	0.01118	0.00175
N260	149	21	1	Patch		8	11.93	11.55	0.05	25.52	0.26	0.03	0.467	0.002	0.453	0.010	0.001	5.970	5.680	0.040	14.870	0.250	0.030	0.23393	0.22257	0.00157	0.58268	0.0098	0.00118
N260	150	22	1	Patch		8	11.1	10.75	0.02	24.97	0.07	0.1	0.445	0.001	0.431	0.003	0.004	5.620	5.320	0.020	14.490	0.070	0.090	0.22507	0.21306	0.0008	0.5803	0.0028	0.0036
N260	151	23	1	Patch		8	10.31	11.55	0.03	28.09	0.04	0.2	0.367	0.001	0.411	0.001	0.007	4.740	4.760	0.020	13.070	0.040	0.200	0.16874	0.16946	0.00071	0.46529	0.00142	0.00712
N260	152	24	1	Patch		8	10.57	11.6	0.03	29.88	0.34	0.07	0.354	0.001	0.388	0.011	0.002	3.570	3.950	0.020	11.560	0.310	0.060	0.11948	0.1322	0.00067	0.38688	0.01037	0.00201
N260	158	30	1	Patch		8	10.99	11.31	0.03	26.65	0.41	0.04	0.412	0.001	0.424	0.015	0.002	5.140	4.680	0.030	13.710	0.390	0.030	0.19287	0.17561	0.00113	0.51445	0.01463	0.00113
N260	159	31	1	Patch		8	10.29	10.43	0.04	22.72	0.15	0.04	0.453	0.002	0.459	0.007	0.002	4.750	4.900	0.030	13.640	0.140	0.040	0.20907	0.21567	0.00132	0.60035	0.00616	0.00176
N260	160	32	1	Patch		8	10.73	10.96	0.03	25.65	0.05	0.15	0.418	0.001	0.427	0.002	0.006	5.360	5.280	0.020	13.940	0.040	0.140	0.20897	0.20585	0.00078	0.54347	0.00156	0.00546
N260	161	33	1	Patch		8	10.3	11.59	0.02	29.39	0.17	0.16	0.350	0.001	0.394	0.006	0.005	4.260	4.280	0.020	11.550	0.150	0.160	0.14495	0.14563	0.00068	0.39299	0.0051	0.00544

- QTM0 N260 Middle channel SISO

													Max Ratio											Max Ratio					
													0.392	0.001	0.511	0.013	0.007							0.193	0.251	0.574	0.001	0.012	0.006
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						Front /	Right	back	TOP	Bottom	relative phase worst PD for MIMO						Front /	back	left	Right	TOP	Bottom
Band	Beam_ID		Ant module	Ant Type	Num. of antenna 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
N260		1	0	Patch		1	1.24	1.51	4.44	0	0.02	0.01	0.279	0.000	0.340	0.005	0.002	0.51	0.51	1.73	0	0.02	0.01	0.11486	0.11486	0.38964	0	0.0045	0.00225
N260		3	0	Patch		1	1.72	1.82	5.5	0	0.02	0.02	0.313	0.000	0.331	0.004	0.004	0.6	0.61	2.44	0	0.01	0.02	0.10909	0.11091	0.44364	0	0.00182	0.00364
N260		4	0	Patch		1	1.74	2.12	5.77	0	0.03	0.02	0.302	0.000	0.367	0.005	0.003	0.54	0.71	2.64	0	0.02	0.02	0.09359	0.12305	0.45754	0	0.00347	0.00347
N260		5	0	Patch		2	1.1	1.48	4.32	0	0.02	0.02	0.255	0.000	0.343	0.005	0.005	0.35	0.44	1.71	0	0.02	0.01	0.08102	0.10185	0.39583	0	0.00463	0.00231
N260		10	0	Patch		2	2.97	3.73	10.14	0	0.03	0.06	0.293	0.000	0.368	0.003	0.006	1.25	1.66	4.42	0	0.03	0.05	0.12327	0.16371	0.4359	0	0.00296	0.00493
N260		11	0	Patch		2	3.45	4.03	11.12	0	0.05	0.03	0.310	0.000	0.362	0.004	0.003	1.52	1.8	5.05	0	0.04	0.03	0.13669	0.16187	0.45414	0	0.0036	0.0027
N260		12	0	Patch		2	3.02	3.03	9.03	0	0.01	0.04	0.334	0.000	0.336	0.001	0.004	1.43	1.42	4.13	0	0.01	0.03	0.15836	0.15725	0.45736	0	0.00111	0.00332
N260		13	0	Patch		2	2.91	3.45	10.84	0	0.06	0.03	0.268	0.000	0.318	0.006	0.003	1.05	1.26	4.04	0	0.05	0.02	0.09686	0.11624	0.37269	0	0.00461	0.00185
N260		17	0	Patch		2	2.54	3.53	9.86	0	0.06	0.02	0.258	0.000	0.358	0.006	0.002	1.06	1.53	4.18	0	0.05	0.02	0.10751	0.15517	0.42394	0	0.00507	0.00203
N260		18	0	Patch		2	2.59	3.62	8.24	0	0.04	0.03	0.314	0.000	0.439	0.005	0.004	1.17	1.61	4.27	0	0.04	0.03	0.14199	0.19539	0.5182	0	0.00485	0.00364
N260		19	0	Patch		2	2.99	2.92	10.28	0	0.01	0.04	0.291	0.000	0.284	0.001	0.004	1.37	1.12	3.89	0	0.01	0.04	0.13327	0.10895	0.3784	0	0.00097	0.00389
N260		25	0	Patch		4	5.87	6.13	17.56	0.01	0.02	0.1	0.334	0.001	0.349	0.001	0.006	2.61	2.6	8.01	0.01	0.02	0.09	0.14863	0.14806	0.45615	0.00057	0.00114	0.00513
N260		26	0	Patch		4	5.82	7.13	16.03	0.01	0.17	0.01	0.363	0.001	0.445	0.011	0.001	2.86	3.38	8.79	0.01	0.16	0.01	0.17842	0.21085	0.54835	0.00062	0.00998	0.00062
N260		27	0	Patch		4	4.01	6.12	12.6	0.01	0.09	0.07	0.318	0.001	0.486	0.007	0.006	1.9	3.02	6.67	0.01	0.09	0.06	0.15079	0.23968	0.52937	0.00079	0.00714	0.00476
N260		28	0	Patch		4	6.54	7.27	16.68	0.01	0.02	0.11	0.392	0.001	0.436	0.001	0.007	3.22	3.62	9.23	0.01	0.02	0.1	0.19305	0.21703	0.55336	0.0006	0.0012	0.006
N260		29	0	Patch		4	4.95	5.67	18.31	0.01	0.11	0.04	0.270	0.001	0.310	0.006	0.002	2.03	2.11	6.99	0	0.1	0.04	0.11087	0.11524	0.38176	0	0.00546	0.00218
N260		34	0	Patch		4	5.17	6.14	17.42	0.01	0.23	0.02	0.297	0.001	0.352	0.013	0.001	2.29	2.43	7.94	0	0.21	0.01	0.13146	0.13949	0.4558	0	0.01206	0.00057
N260		35	0	Patch		4	4.56	7.18	14.04	0.01	0.08	0.03	0.325	0.001	0.511	0.006	0.002	2.26	3.52	8.06	0.01	0.08	0.03	0.16097	0.25071	0.57407	0.00071	0.0057	0.00214
N260		36	0	Patch		4	4.99	6.67	14.31	0.01	0.05	0.08	0.349	0.001	0.466	0.003	0.006	2.38	3.33	7.97	0.01	0.05	0.07	0.16632	0.2327	0.55695	0.0007	0.00349	0.00489
N260		37	0	Patch		4	6.49	6.8	17.73	0.01	0.03	0.11	0.366	0.001	0.384	0.002	0.006	3.08	3.14	8.78	0.01	0.03	0.1	0.17372	0.1771	0.49521	0.00056	0.00169	0.00564
N260		129	0	Patch		1	1.52	1.69	4.7	0	0.03	0.01	0.323	0.000	0.360	0.006	0.002	0.56	0.57	1.76	0	0.03	0.01	0.11915	0.12128	0.37447	0	0.00638	0.00213
N260		131	0	Patch		2	1.38	2.25	5.24	0	0.02	0.01	0.263	0.000	0.429	0.004	0.002	0.41	0.83	2.43	0	0.02	0.01	0.07824	0.1584	0.46374	0	0.00382	0.00191
N260		132	0	Patch		2	1.41	1.64	4.66	0	0.02	0.01	0.303	0.000	0.352	0.004	0.002	0.48	0.53	2.1	0	0.02	0.01	0.103	0.11373	0.45064	0	0.00429	0.00215
N260		133	0	Patch		2	1.07	1.07	3.82	0	0.01	0.02	0.280	0.000	0.280	0.003	0.005	0.4	0.34	1.36	0	0.01	0.01	0.10471	0.08901	0.35602	0	0.00262	0.00262
N260		138	0	Patch		2	3.23	3.29	10.14	0	0.02	0.03	0.319	0.000	0.324	0.002	0.003	1.17	1.43	3.89	0	0.01	0.03	0.11538	0.14103	0.38363	0	0.00099	0.00296
N260		139	0	Patch		2	2.7	4	8.95	0	0.04	0.01	0.302	0.000	0.447	0.004	0.001	1.12	1.9	4.52	0	0.04	0.01	0.12514	0.21229	0.50503	0	0.00447	0.00112
N260		140	0	Patch		2	2.56	4.28	8.89	0	0.03	0.02	0.288	0.000	0.481	0.003	0.002	1.23	1.95	4.32	0	0.02	0.02	0.13836	0.21935	0.48594	0	0.00225	0.00225
N260		141	0	Patch		2	3.19	3.1	10.09	0.01	0.05	0.02	0.316	0.001	0.307	0.005	0.002	1.18	1.21	3.76	0	0.05	0.02	0.11695	0.11992	0.37265	0	0.00496	0.00198
N260		145	0	Patch		2	2.39	2.42	8.6	0	0.06	0	0.278	0.000	0.281	0.007	0.000	1.1	1.03	3.22	0	0.06	0	0.12791	0.11977	0.37442	0	0.00698	0
N260		146	0	Patch		2	2.78	4.08	8.61	0	0.03	0.01	0.323	0.000	0.474	0.003	0.001	1.22	1.78	4.57	0	0.03	0.01	0.1417	0.20674	0.53078	0	0.00348	0.00116
N260		147	0	Patch		4	2.46	3.13	8.69	0	0.04	0.03	0.283	0.000	0.360	0.005	0.003	1.07	1.36	3.69	0	0.03	0.02	0.12313	0.1565	0.42463	0	0.00345	0.0023
N260		153	0	Patch		4	4.97	5.98	15.93	0.01	0.03	0.1	0.312	0.001	0.375	0.002	0.006	2.11	2.53	6.98	0.01	0.02	0.09	0.13245	0.15882	0.43817	0.00063	0.00126	0.00565
N260		154	0	Patch		4	5.68	6.41	14.97	0.01	0.12	0.02	0.379	0.001	0.428	0.008	0.001	2.8	3.21	8.07	0.01	0.12	0.02	0.18704	0.21443	0.53908	0.00067	0.00802	0.00134
N260		155	0	Patch		4	3.61	5.77	11.61	0.01	0.08	0.05	0.311	0.001	0.497	0.007	0.004	1.68	2.87	6.14	0.01	0.08	0.04	0.1447	0.2472	0.52885	0.00086	0.00689	0.00345
N260		156	0	Patch		4	6.07	7.67	16.02	0.01	0.04	0.06	0.379	0.001	0.479	0.002	0.004	3	3.73	8.68	0.01	0.04	0.05	0.18727	0.23283	0.54182	0.00062	0.0025	0.00312
N260		157	0	Patch		4	4.84	5.15	16.69	0.01	0.1	0.03	0.290	0.001	0.309	0.006	0.002	1.94	2.02	6.09	0.01	0.09	0.03	0.11624	0.12103	0.36489	0.0006	0.00539	0.0018
N260		162	0	Patch		4	5.11	5.39	15.97	0.01	0.17	0.02	0.320	0.001	0.338	0.011	0.001	2.37	2.66	7.04	0.01	0.15	0.02	0.1484	0.16656	0.44083	0.00063	0.00939	0.00125
N260		163	0	Patch		4	4.52	5.97	12.68	0.01	0.11	0.02	0.356	0.001	0.471	0.009	0.002	2.2	3.08	7.05	0.01	0.11	0.02	0.1735	0.2429	0.55599	0.00079	0.00868	0.00158
N260		164	0	Patch		4	5.48	7.43	14.76	0.01	0.05	0.03	0.371	0.001	0.503	0.003	0.002	2.72	3.65	8.34	0.01	0.05	0.03	0.18428	0.24729	0.56504	0.00068	0.00339	0.00203
N260		165	0	Patch		4	5.13	6.35	16.2	0.01	0.04	0.08	0.317	0.001	0.392	0.002	0.005	2.39	2.95	7.31	0.01	0.04	0.07	0.14753	0.1821	0.45123	0.00062	0.00247	0.00432

- QTM0 N260 Middle channel MIMO

													Max Ratio											Max Ratio					
													0.384	0.001	0.504	0.014	0.008							0.195	0.248	0.606	0.001	0.014	0.007
N260	129	1	0	Patch		2	3.51	4.06	9.49	0.01	0.09	0.03	0.370	0.001	0.428	0.009	0.003	1.38	1.46	3.87	0	0.08	0.02	0.14542	0.15385	0.4078	0	0.00843	0.00211
N260	131	3	0	Patch		2	4.06	4.98	11.21	0	0.06	0.04	0.362	0.000	0.444	0.005	0.004	1.35	1.73	5.7	0	0.06	0.04	0.12043	0.15433	0.50847	0	0.00535	0.00357
N260	132	4	0	Patch		2	4.06	4.79	10.93	0	0.08	0.05	0.371	0.000	0.438	0.007	0.005	1.28	1.61	5.71	0	0.07	0.04	0.11711	0.1473	0.52242	0	0.0064	0.00366
N260	133	5	0	Patch		2	2.88	3.43	8.81	0	0.05	0.06	0.327	0.000	0.389	0.006	0.007	1.13	1.21	3.74	0	0.04	0.05	0.12826	0.13734	0.42452	0	0.00454	0.00568
N260	138	10	0	Patch		4	5.88	7.27	17.45	0.01	0.06	0.13	0.337	0.001	0.417	0.003	0.007	2.38	2.98	8.27	0.01	0.06	0.12	0.13639	0.17077	0.47393	0.00057	0.00344	0.00688
N260	139	11	0	Patch		4	6.89	8.66	20.84	0.01	0.13	0.07	0.331	0.000	0.416	0.006	0.003	2.88	4.04	10.26	0.01	0.12	0.06	0.1382	0.19386	0.49232	0.00048	0.00576	0.00288
N260	140	12	0	Patch		4	7.13	9.22	18.55	0.01	0.06	0.09	0.384	0.001	0.497	0.003	0.005	3.59	4.36	9.72	0.01	0.06	0.08	0.19353	0.23504	0.52399	0.00054	0.00323	0.00431
N260	141	13	0	Patch		4	5.58	6.46	17.72	0.01	0.18	0.07	0.315	0.001	0.365	0.010	0.004	2.1	2.31	7.53	0.01	0.16	0.06	0.11851	0.13036	0.42494	0.00056	0.00903	0.00339
N260	145	17	0	Patch		4	5	5.96	15.22	0.01	0.18	0.04	0.329	0.001	0.392	0.012	0.003	2.09	2.64	7.61	0.01	0.17	0.04	0.13732	0.17346	0.5	0.00066	0.01117	0.00263
N260	146	18	0	Patch		4	5.78	8.53	16.94	0.01	0.12	0.07	0.341	0.001	0.504	0.007	0.004	2.23	3.91	9.59	0.01	0.12	0.06	0.13164	0.23081	0.56612	0.00059	0.00708	0.00354
N260	147	19	0	Patch		4	5.36	6.12	15.89	0.01	0.07	0.09	0.337	0.001	0.385	0.004	0.006	2.56	2.73	7.84	0.01	0.06	0.08	0.16111	0.17181	0.49339	0.00063	0.00378	0.00503
N260	153	25	0	Patch		8	12.02	13.41	36.32	0.02	0.07	0.26	0.331	0.001	0.369	0.002	0.007	5.62	5.66	15.64	0.02	0.06	0.22	0.15474	0.15584	0.43062	0.00055	0.00165	0.00606
N260	154	26	0	Patch		8	12.21	14.27	33.38	0.03	0.48	0.05	0.366	0.001	0.428	0.014	0.001	6.14	7.14	17.65	0.02	0.46	0.04	0.18394	0.2139	0.52876	0.0006	0.01378	0.0012
N260	155	27	0	Patch		8	9.95	13.29	28.44	0.02	0.23	0.16	0.350	0.001	0.467	0.008	0.006	4.46	6.39	13.6	0.01	0.22	0.15	0.15682	0.22468	0.4782	0.00035	0.00774	0.00527
N260	156	28	0	Patch		8	13.03	16.82	35.5	0.03	0.1	0.26	0.367	0.001	0.474	0.003	0.007	6.91	8.43	18.26	0.02	0.09	0.23	0.19465	0.23746	0.51437	0.00056	0.00254	0.00648
N260	157	29	0	Patch		8	10.72	12.5	37.8	0.02	0.3	0.1	0.284	0.001	0.331	0.008	0.003	4.42	4.85	13.72	0.01	0.28	0.08	0.11693	0.12831	0.36296	0.00026	0.00741	0.00212
N260	162	34	0	Patch		8	11.63	13.63	36.54	0.02	0.38	0.06	0.318	0.001	0.373	0.010	0.002	5.43	5.83	15.32	0.02	0.36	0.05	0.1486	0.15955	0.41927	0.00055	0.00985	0.00137
N260	163	35	0	Patch		8	9.91	14.26	28.51	0.03	0.19	0.07	0.348	0.001	0.500	0.007	0.002	4.92	7.08	17.29	0.02	0.18	0.06	0.17257	0.24833	0.60645	0.0007	0.00631	0.0021
N260	164	36	0	Patch		8	12.06	14.39	32.22	0.03	0.16	0.17	0.374	0.001	0.447	0.005	0.005	5.85	7.34	16.83	0.02	0.16	0.15	0.18156	0.22781	0.52235	0.00062	0.00497	0.00466
N260	165	37	0	Patch		8	12.95	13.97	35.93	0.03	0.08	0.27	0.360	0.001	0.389	0.002	0.008	6.24	6.56	17.21	0.02	0.07	0.23	0.17367	0.18258	0.47899	0.00056	0.00195	0.0064

- QTM1 N260 Middle channel SISO

													Max Ratio											Max Ratio					
													0.470	0.002	0.480	0.011	0.005							0.233	0.233	0.001	0.580	0.011	0.005
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						Front /	Left	back	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
N260		0	1	Patch		1	1.7	1.91	0	5.03	0.02	0.01	0.338	0.000	0.380	0.004	0.002	0.61	0.61	0	2.37	0.02	0.01	0.12127	0.12127	0	0.47117	0.00398	0.00199
N260		2	1	Patch		1	1.73	1.62	0	4.75	0.02	0.01	0.364	0.000	0.341	0.004	0.002	0.53	0.52	0	2.16	0.02	0.01	0.11158	0.10947	0	0.45474	0.00421	0.00211
N260		6	1	Patch		2	3.19	2.8	0.01	8.89	0.06	0.02	0.359	0.001	0.315	0.007	0.002	1.36	1.19	0.01	3.84	0.05	0.01	0.15298	0.13386	0.00112	0.43195	0.00562	0.00112
N260		7	1	Patch		2	2.83	2.52	0.01	6.84	0.06	0	0.414	0.001	0.368	0.009	0.000	1.23	1.12	0.01	3.58	0.06	0	0.17982	0.16374	0.00146	0.52339	0.00877	0
N260		8	1	Patch		2	2.75	3.15	0	8.81	0.01	0.03	0.312	0.000	0.358	0.001	0.003	1.22	1.47	0	3.87	0.01	0.03	0.13848	0.16686	0	0.43927	0.00114	0.00341
N260		9	1	Patch		2	2.7	3.37	0.01	9.19	0.05	0.02	0.294	0.001	0.367	0.005	0.002	0.94	1.4	0	3.65	0.04	0.02	0.10229	0.15234	0	0.39717	0.00435	0.00218
N260		14	1	Patch		2	3.06	3.2	0.01	8.97	0.06	0	0.341	0.001	0.357	0.007	0.000	1.41	1.3	0	4.1	0.06	0	0.15719	0.14493	0	0.45708	0.00669	0
N260		15	1	Patch		2	3.38	3.87	0.01	9.07	0.04	0.03	0.373	0.001	0.427	0.004	0.003	1.47	1.69	0	4.59	0.03	0.02	0.16207	0.18633	0	0.50606	0.00331	0.00221
N260		16	1	Patch		2	3.35	3.2	0	10.32	0.04	0.02	0.325	0.000	0.310	0.004	0.002	1.09	1.24	0	4.18	0.04	0.02	0.10562	0.12016	0	0.40504	0.00388	0.00194
N260		20	1	Patch		4	5.57	5.77	0.01	15.28	0.11	0.04	0.365	0.001	0.378	0.007	0.003	2.26	2.1	0.01	7.12	0.1	0.03	0.14791	0.13743	0.00065	0.46597	0.00654	0.00196
N260		21	1	Patch		4	6.38	6.61	0.02	15.14	0.12	0.01	0.421	0.001	0.437	0.008	0.001	3.04	3.04	0.01	8.78	0.11	0.01	0.20079	0.20079	0.00066	0.57992	0.00727	0.00066
N260		22	1	Patch		4	5.35	5.56	0.01	13.06	0.05	0.04	0.410	0.001	0.426	0.004	0.003	2.43	2.6	0.01	6.9	0.04	0.04	0.18606	0.19908	0.00077	0.52833	0.00306	0.00306
N260		23	1	Patch		4	5.11	6.56	0.01	15.05	0.01	0.08	0.340	0.001	0.436	0.001	0.005	2.26	3.01	0.01	7.77	0.01	0.08	0.15017	0.2	0.00066	0.51628	0.00066	0.00532
N260		24	1	Patch		4	5.55	5.61	0.01	15.46	0.12	0.03	0.359	0.001	0.363	0.008	0.002	2.25	2.02	0.01	6.97	0.11	0.02	0.14554	0.13066	0.00065	0.45084	0.00712	0.00129
N260		30	1	Patch		4	6.75	6.34	0.02	15.39	0.15	0.02	0.439	0.001	0.412	0.010	0.001	3.06	2.76	0.02	8.51	0.15	0.02	0.19883	0.17934	0.0013	0.55296	0.00975	0.0013
N260		31	1	Patch		4	4.54	5.5	0.02	12.37	0.09	0.02	0.367	0.002	0.445	0.007	0.002	2.05	2.35	0.01	6.67	0.08	0.02	0.16572	0.18998	0.00081	0.53921	0.00647	0.00162
N260		32	1	Patch		4	5.51	7.23	0.01	15.05	0.02	0.06	0.366	0.001	0.480	0.001	0.004	2.52	3.5	0.01	8.39	0.02	0.05	0.16744	0.23256	0.00066	0.55748	0.00133	0.00332
N260		33	1	Patch		4	4.99	5.78	0.01	15.2	0.04	0.07	0.328	0.001	0.380	0.003	0.005	1.7	2.22	0.01	6.89	0.04	0.07	0.11184	0.14605	0.00066	0.45329	0.00263	0.00461
N260		128	1	Patch		1	1.56	1.65	0	4.45	0.02	0.01	0.351	0.000	0.371	0.004	0.002	0.49	0.58	0	2.1	0.02	0.01	0.11011	0.13034	0	0.47191	0.00449	0.00225
N260		130	1	Patch		1	1.3	1.67	0	4.25	0.02	0.01	0.306	0.000	0.393	0.005	0.002	0.41	0.54	0	1.9	0.02	0.01	0.09647	0.12706	0	0.44706	0.00471	0.00235
N260		134	1	Patch		2	3.19	2.73	0.01	9.19	0.04	0.02	0.347	0.001	0.297	0.004	0.002	1.35	1.02	0.01	3.53	0.04	0.02	0.1469	0.11099	0.00109	0.38411	0.00435	0.00218
N260		135	1	Patch		2	2.91	3.38	0	7.89	0.06	0.01	0.369	0.000	0.428	0.008	0.001	1.22	1.44	0	4.06	0.06	0.01	0.15463	0.18251	0	0.51458	0.0076	0.00127
N260		136	1	Patch		2	2.71	2.54	0	7.44	0.01	0.02	0.364	0.000	0.341	0.001	0.003	1.27	1.22	0	3.57	0.01	0.02	0.1707	0.16398	0	0.47984	0.00134	0.00269
N260		137	1	Patch		2	3.15	2.91	0.01	9.25	0.06	0.01	0.341	0.001	0.315	0.006	0.001	1.09	1.14	0	3.69	0.06	0.01	0.11784	0.12324	0	0.39892	0.00649	0.00108
N260		142	1	Patch		2	2.82	3.29	0	8.6	0.06	0.02	0.328	0.000	0.383	0.007	0.002	1.2	1.38	0	3.92	0.06	0.01	0.13953	0.16047	0	0.45581	0.00698	0.00116
N260		143	1	Patch		2	3.01	2.7	0.01	7.6	0.01	0.04	0.396	0.001	0.355	0.001	0.005	1.36	1.13	0.01	3.67	0.01	0.04	0.17895	0.14868	0.00132	0.48289	0.00132	0.00526
N260		144	1	Patch		2	2.45	3.03	0.01	8.28	0.04	0.02	0.296	0.001	0.366	0.005	0.002	0.92	1.26	0	3.2	0.04	0.02	0.11111	0.15217	0	0.38647	0.00483	0.00242
N260		148	1	Patch		4	4.94	6.05	0.01	14.58	0.16	0.01	0.339	0.001	0.415	0.011	0.001	1.98	2.6	0.01	7.11	0.15	0.01	0.1358	0.17833	0.00069	0.48765	0.01029	0.00069
N260		149	1	Patch		4	5.45	6.1	0.02	13.61	0.12	0.01	0.400	0.001	0.448	0.009	0.001	2.5	2.97	0.01	7.33	0.12	0.01	0.18369	0.21822	0.00073	0.53857	0.00882	0.00073
N260		150	1	Patch		4	5.05	4.99	0.01	11.73	0.02	0.04	0.431	0.001	0.425	0.002	0.003	2.49	2.43	0.01	6.53	0.02	0.04	0.21228	0.20716	0.00085	0.55669	0.00171	0.00341
N260		151	1	Patch		4	5.86	4.98	0.01	14.27	0.02	0.07	0.411	0.001	0.349	0.001	0.005	2.69	2.26	0.01	7.19	0.02	0.07	0.18851	0.15837	0.0007	0.50385	0.0014	0.00491
N260		152	1	Patch		4	4.68	5.53	0.01	14.54	0.12	0.02	0.322	0.001	0.380	0.008	0.001	1.85	2.23	0.01	6.31	0.11	0.02	0.12724	0.15337	0.00069	0.43398	0.00757	0.00138
N260		158	1	Patch		4	5.04	6.55	0.02	14.66	0.16	0.01	0.344	0.001	0.447	0.011	0.001	2.22	3.04	0.01	7.57	0.16	0.01	0.15143	0.20737	0.00068	0.51637	0.01091	0.00068
N260		159	1	Patch		4	4.89	4.57	0.02	11.39	0.08	0.03	0.429	0.002	0.401	0.007	0.003	2.21	2.19	0.01	5.86	0.08	0.03	0.19403	0.19227	0.00088	0.51449	0.00702	0.00263
N260		160	1	Patch		4	6.59	5.28	0.01	14.01	0.03	0.07	0.470	0.001	0.377	0.002	0.005	3.27	2.5	0.01	7.86	0.03	0.06	0.2334	0.17844	0.00071	0.56103	0.00214	0.00428
N260		161	1	Patch		4	4.77	5.17	0.01	14.52	0.08	0.03	0.329	0.001	0.356	0.006	0.002	1.96	1.8	0.01	5.89	0.07	0.03	0.13499	0.12397	0.00069	0.40565	0.00482	0.00207

- QTM1 N260 Middle channel MIMO

													Max Ratio											Max Ratio					
													0.479	0.001	0.497	0.014	0.006							0.240	0.247	0.001	0.589	0.013	0.006
N260	128	0	1	Patch		2	4.03	4.67	0.01	10.26	0.05	0.03	0.393	0.001	0.455	0.005	0.003	1.38	1.56	0.01	4.91	0.04	0.03	0.1345	0.15205	0.00097	0.47856	0.0039	0.00292
N260	130	2	1	Patch		2	3.77	4.27	0.01	9.8	0.06	0.04	0.385	0.001	0.436	0.006	0.004	1.17	1.36	0	4.51	0.06	0.03	0.11939	0.13878	0	0.4602	0.00612	0.00306
N260	134	6	1	Patch		4	6.05	5.52	0.02	15.34	0.14	0.05	0.394	0.001	0.360	0.009	0.003	2.46	2.01	0.01	7.59	0.13	0.05	0.16037	0.13103	0.00065	0.49478	0.00847	0.00326
N260	135	7	1	Patch		4	6.05	6.6	0.01	14.71	0.18	0.02	0.411	0.001	0.449	0.012	0.001	2.54	2.9	0.01	7.75	0.17	0.02	0.17267	0.19714	0.00068	0.52685	0.01156	0.00136
N260	136	8	1	Patch		4	7.89	8.13	0.01	18.1	0.03	0.08	0.436	0.001	0.449	0.002	0.004	3.77	4.03	0.01	9.87	0.03	0.08	0.20829	0.22265	0.00055	0.5453	0.00166	0.00442
N260	137	9	1	Patch		4	7.58	8	0.02	20.08	0.14	0.03	0.377	0.001	0.398	0.007	0.001	2.89	2.69	0.01	8.58	0.14	0.03	0.14392	0.13396	0.0005	0.42729	0.00697	0.00149
N260	142	14	1	Patch		4	7.25	7.43	0.02	18.22	0.12	0.03	0.398	0.001	0.408	0.007	0.002	3.48	3.09	0.01	8.72	0.11	0.03	0.191	0.16959	0.00055	0.47859	0.00604	0.00165
N260	143	15	1	Patch		4	6.69	6.96	0.02	16.8	0.05	0.1	0.398	0.001	0.414	0.003	0.006	2.85	2.92	0.01	8.18	0.05	0.09	0.16964	0.17381	0.0006	0.4869	0.00298	0.00536
N260	144	16	1	Patch		4	6.08	7.02	0.01	19.03	0.13	0.06	0.319	0.001	0.369	0.007	0.003	2.33	2.72	0.01	7.74	0.12	0.06	0.12244	0.14293	0.00053	0.40673	0.00631	0.00315
N260	148	20	1	Patch		8	11.11	13.36	0.03	32.13	0.32	0.08	0.346	0.001	0.416	0.010	0.002	4.97	5.39	0.02	14.95	0.3	0.07	0.15468	0.16776	0.00062	0.4653	0.00934	0.00218
N260	149	21	1	Patch		8	13	14.48	0.04	29.12	0.34	0.03	0.446	0.001	0.497	0.012	0.001	6.39	7.08	0.03	17.15	0.32	0.03	0.21944	0.24313	0.00103	0.58894	0.01099	0.00103
N260	150	22	1	Patch		8	12.33	12.1	0.03	25.73	0.09	0.1	0.479	0.001	0.470	0.003	0.004	6.18	6.36	0.03	14.71	0.09	0.09	0.24019	0.24718	0.00117	0.57171	0.0035	0.0035
N260	151	23	1	Patch		8	11.65	12.63	0.03	31.61	0.05	0.16	0.369	0.001	0.400	0.002	0.005	5.52	5.72	0.02	15.95	0.05	0.15	0.17463	0.18096	0.00063	0.50459	0.00158	0.00475
N260	152	24	1	Patch		8	11.23	11.88	0.03	32.85	0.27	0.07	0.342	0.001	0.362	0.008	0.002	4.47	4.83	0.02	14.36	0.24	0.06	0.13607	0.14703	0.00061	0.43714	0.00731	0.00183
N260	158	30	1	Patch		8	12.97	13.55	0.04	31.35	0.43	0.03	0.414	0.001	0.432	0.014	0.001	6.07	6.29	0.04	17.16	0.41	0.03	0.19362	0.20064	0.00128	0.54737	0.01308	0.00096
N260	159	31	1	Patch		8	11.11	11.37	0.04	27.18	0.18	0.06	0.409	0.001	0.418	0.007	0.002	4.95	5.42	0.03	13.21	0.18	0.05	0.18212	0.19941	0.0011	0.48602	0.00662	0.00184
N260	160	32	1	Patch		8	13.33	13.95	0.03	30.73	0.07	0.19	0.434	0.001	0.454	0.002	0.006	6.6	7.14	0.02	17.54	0.06	0.17	0.21477	0.23235	0.00065	0.57078	0.00195	0.00553
N260	161	33	1	Patch		8	10.25	11.38	0.02	32.15	0.14	0.15	0.319	0.001	0.354	0.004	0.005	4.35	4.66	0.02	12.91	0.13	0.14	0.1353	0.14495	0.00062	0.40156	0.00404	0.00435

- QTM0 N260 High channel SISO

													Max Ratio												Max Ratio					
													0.408	0.002	0.468	0.010	0.006							0.201	0.231	0.555	0.001	0.010	0.006
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	back	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
N260		1	0	Patch		1	1.19	1.64	4.62	0	0.02	0.01	0.258	0.000	0.355	0.004	0.002	0.45	0.54	1.8	0	0.02	0.01	0.0974	0.11688	0.38961	0	0.00433	0.00216
N260		3	0	Patch		1	1.56	2.06	5.37	0	0.01	0.01	0.291	0.000	0.384	0.002	0.002	0.52	0.76	2.37	0	0.01	0.01	0.09683	0.14153	0.44134	0	0.00186	0.00186
N260		4	0	Patch		1	1.9	1.66	5.23	0	0.02	0.01	0.363	0.000	0.317	0.004	0.002	0.66	0.52	2.38	0	0.02	0.01	0.1262	0.09943	0.45507	0	0.00382	0.00191
N260		5	0	Patch		2	1.3	1.25	4.26	0	0.01	0.01	0.305	0.000	0.293	0.002	0.002	0.41	0.39	1.64	0	0.01	0.01	0.09624	0.09155	0.38498	0	0.00235	0.00235
N260		10	0	Patch		2	3.39	2.87	9.7	0.01	0.02	0.04	0.349	0.001	0.296	0.002	0.004	1.54	1.29	4.14	0	0.02	0.04	0.15876	0.13299	0.4268	0	0.00206	0.00412
N260		11	0	Patch		2	3.68	3.51	10.37	0	0.03	0.02	0.355	0.000	0.338	0.003	0.002	1.52	1.52	4.77	0	0.03	0.02	0.14658	0.14658	0.45998	0	0.00289	0.00193
N260		12	0	Patch		2	2.88	3.14	9.08	0.01	0.02	0.04	0.317	0.001	0.346	0.002	0.004	1.32	1.41	4.01	0.01	0.02	0.03	0.14537	0.15529	0.44163	0.0011	0.0022	0.0033
N260		13	0	Patch		2	3.33	3.06	10.71	0.01	0.04	0.02	0.311	0.001	0.286	0.004	0.002	1.21	1.06	3.99	0	0.04	0.02	0.11298	0.09897	0.37255	0	0.00373	0.00187
N260		17	0	Patch		2	2.28	3.88	9.98	0	0.04	0.01	0.228	0.000	0.389	0.004	0.001	0.93	1.73	4.2	0	0.04	0.01	0.09319	0.17335	0.42084	0	0.00401	0.001
N260		18	0	Patch		2	2.84	2.74	7.27	0.01	0.03	0.03	0.391	0.001	0.377	0.004	0.004	1.29	1.17	3.8	0	0.03	0.03	0.17744	0.16094	0.5227	0	0.00413	0.00413
N260		19	0	Patch		2	2.69	3.25	10.32	0	0.01	0.04	0.261	0.000	0.315	0.001	0.004	1.29	1.19	3.81	0	0.01	0.04	0.125	0.11531	0.36919	0	0.00097	0.00388
N260		25	0	Patch		4	5.84	5.5	16.52	0.01	0.03	0.07	0.354	0.001	0.333	0.002	0.004	2.68	2.35	7.65	0.01	0.03	0.06	0.16223	0.14225	0.46308	0.00061	0.00182	0.00363
N260		26	0	Patch		4	6	6.65	15.55	0.01	0.16	0.01	0.386	0.001	0.428	0.010	0.001	2.88	3.09	8.43	0.01	0.15	0.01	0.18521	0.19871	0.54212	0.00064	0.00965	0.00064
N260		27	0	Patch		4	4.16	5.92	12.65	0.02	0.06	0.05	0.329	0.002	0.468	0.005	0.004	1.88	2.85	6.66	0.01	0.06	0.05	0.14862	0.2253	0.52648	0.00079	0.00474	0.00395
N260		28	0	Patch		4	6.22	6.52	16.2	0.01	0.03	0.1	0.384	0.001	0.402	0.002	0.006	3.01	3.14	8.54	0.01	0.03	0.09	0.1858	0.19383	0.52716	0.00062	0.00185	0.00556
N260		29	0	Patch		4	4.77	5.63	17.51	0.01	0.07	0.03	0.272	0.001	0.322	0.004	0.002	2.05	2.18	7.04	0.01	0.06	0.03	0.11708	0.1245	0.40206	0.00057	0.00343	0.00171
N260		34	0	Patch		4	5.06	6.5	16.86	0.01	0.15	0.01	0.300	0.001	0.386	0.009	0.001	2.31	2.7	8	0	0.14	0.01	0.13701	0.16014	0.4745	0	0.0083	0.00059
N260		35	0	Patch		4	5.36	6.54	14.03	0.01	0.06	0.02	0.382	0.001	0.466	0.004	0.001	2.56	3.24	7.76	0.01	0.06	0.02	0.18247	0.23093	0.5531	0.00071	0.00428	0.00143
N260		36	0	Patch		4	4.98	5.83	13.92	0.01	0.06	0.08	0.358	0.001	0.419	0.004	0.006	2.34	2.74	7.33	0.01	0.06	0.08	0.1681	0.19684	0.52658	0.00072	0.00431	0.00575
N260		37	0	Patch		1	6.13	6.26	16.93	0.01	0.05	0.08	0.362	0.001	0.370	0.003	0.005	2.89	2.82	8.25	0.01	0.04	0.07	0.1707	0.16657	0.4873	0.00059	0.00236	0.00413
N260		129	0	Patch		1	1.86	1.42	5.04	0	0.02	0.01	0.369	0.000	0.282	0.004	0.002	0.68	0.44	1.97	0	0.02	0.01	0.13492	0.0873	0.39087	0	0.00397	0.00198
N260		131	0	Patch		2	1.68	1.79	4.93	0	0.01	0.01	0.341	0.000	0.363	0.002	0.002	0.57	0.63	2.3	0	0.01	0	0.11562	0.12779	0.46653	0	0.00203	0
N260		132	0	Patch		2	1.22	1.71	4.41	0	0.01	0	0.277	0.000	0.388	0.002	0.000	0.38	0.61	1.97	0	0.01	0	0.08617	0.13832	0.44671	0	0.00227	0
N260		133	0	Patch		2	0.96	1.2	3.71	0	0.01	0.01	0.259	0.000	0.323	0.003	0.003	0.35	0.38	1.35	0	0.01	0.01	0.09434	0.10243	0.36388	0	0.0027	0.0027
N260		138	0	Patch		2	3.65	2.97	10.07	0.01	0.02	0.03	0.362	0.001	0.295	0.002	0.003	1.36	1.31	3.89	0	0.02	0.02	0.13505	0.13009	0.3863	0	0.00199	0.00199
N260		139	0	Patch		2	2.64	3.7	8.54	0	0.03	0.01	0.309	0.000	0.433	0.004	0.001	1.1	1.69	4.23	0	0.03	0.01	0.12881	0.19789	0.49532	0	0.00351	0.00117
N260		140	0	Patch		2	2.97	3.72	8.72	0.01	0.02	0.02	0.341	0.001	0.427	0.002	0.002	1.4	1.59	4.37	0	0.02	0.02	0.16055	0.18234	0.50115	0	0.00229	0.00229
N260		141	0	Patch		2	3.94	2.45	10.27	0.01	0.05	0.01	0.384	0.001	0.239	0.005	0.001	1.51	0.91	3.96	0.01	0.04	0.01	0.14703	0.08861	0.38559	0.00097	0.00389	0.00097
N260		145	0	Patch		2	2.31	2.7	8.82	0.01	0.05	0.01	0.262	0.001	0.306	0.006	0.001	1.08	1.13	3.36	0	0.05	0	0.12245	0.12812	0.38095	0	0.00567	0
N260		146	0	Patch		2	3.01	3.67	8.44	0	0.03	0.02	0.357	0.000	0.435	0.004	0.002	1.3	1.59	4.34	0	0.03	0.01	0.15403	0.18839	0.51422	0	0.00355	0.00118
N260		147	0	Patch		4	2.14	3.21	8.41	0	0.02	0.02	0.254	0.000	0.382	0.002	0.002	0.96	1.44	3.48	0	0.02	0.02	0.11415	0.17122	0.41379	0	0.00238	0.00238
N260		153	0	Patch		4	4.79	5.95	15.24	0.01	0.02	0.07	0.314	0.001	0.390	0.001	0.005	2.05	2.58	7.04	0.01	0.02	0.06	0.13451	0.16929	0.46194	0.00066	0.00131	0.00394
N260		154	0	Patch		4	5.85	5.68	14.86	0.01	0.11	0.02	0.394	0.001	0.382	0.007	0.001	2.91	2.78	7.76	0.01	0.1	0.02	0.19583	0.18708	0.52221	0.00067	0.00673	0.00135
N260		155	0	Patch		4	4.37	6.05	13.03	0.01	0.07	0.03	0.335	0.001	0.464	0.005	0.002	1.97	2.97	6.83	0.01	0.07	0.02	0.15119	0.22794	0.52417	0.00077	0.00537	0.00153
N260		156	0	Patch		4	5.93	6.56	15.02	0.01	0.04	0.05	0.395	0.001	0.437	0.003	0.003	2.94	3.1	7.89	0.01	0.04	0.04	0.19574	0.20639	0.5253	0.00067	0.00266	0.00266
N260		157	0	Patch		4	5	4.68	16.21	0.01	0.05	0.02	0.308	0.001	0.289	0.003	0.001	2.01	1.94	6.17	0.01	0.05	0.02	0.124	0.11968	0.38063	0.00062	0.00308	0.00123
N260		162	0	Patch		4	5.48	4.82	15.74	0.01	0.13	0.01	0.348	0.001	0.306	0.008	0.001	2.62	2.36	6.95	0.01	0.11	0.01	0.16645	0.14994	0.44155	0.00064	0.00699	0.00064
N260		163	0	Patch		4	4.96	5.8	13.65	0.01	0.11	0.02	0.363	0.001	0.425	0.008	0.001	2.42	2.85	7.23	0.01	0.1	0.02	0.17729	0.20879	0.52967	0.00073	0.00733	0.00147
N260		164	0	Patch		4	5.72	6.27	14.02	0.01	0.05	0.04	0.408	0.001	0.447	0.004	0.003	2.82	2.96	7.78	0.01	0.05	0.03	0.20114	0.21113	0.55492	0.00071	0.00357	0.00214
N260		165	0	Patch		4	5.11	6.09	15.66	0.01	0.02	0.06	0.326	0.001	0.389	0.001	0.004	2.4	2.85	7.3	0.01	0.02	0.05	0.15326	0.18199	0.46616	0.00064	0.00128	0.00319

- QTM0 N260 High channel MIMO

													Max Ratio												Max Ratio					
													0.437	0.001	0.498	0.016	0.008							0.208	0.243	0.545	0.001	0.015	0.007
N260	129	1	0	Patch		2	3.93	4.08	9.94	0.01	0.08	0.03	0.395	0.001	0.410	0.008	0.003	1.44	1.47	4.13	0.01	0.08	0.02	0.14487	0.14789	0.41549	0.00101	0.00805	0.00201
N260	131	3	0	Patch		2	4.58	5.41	10.92	0.01	0.03	0.03	0.419	0.001	0.495	0.003	0.003	1.56	2.01	5.12	0	0.03	0.02	0.14286	0.18407	0.46886	0	0.00275	0.00183
N260	132	4	0	Patch		2	4.41	5	10.09	0	0.06	0.03	0.437	0.000	0.496	0.006	0.003	1.49	1.77	4.79	0	0.05	0.02	0.14767	0.17542	0.47473	0	0.00496	0.00198
N260	133	5	0	Patch		2	3.4	3.78	8.47	0.01	0.03	0.05	0.401	0.001	0.446	0.004	0.006	1.17	1.28	3.28	0	0.03	0.04	0.13813	0.15112	0.38725	0	0.00354	0.00472
N260	138	10	0	Patch		4	6.99	6.35	17.69	0.02	0.06	0.1	0.395	0.001	0.359	0.003	0.006	2.89	2.66	8.85	0.01	0.05	0.09	0.16337	0.15037	0.50028	0.00057	0.00283	0.00509
N260	139	11	0	Patch		4	7.65	7.25	19.46	0.01	0.11	0.04	0.393	0.001	0.373	0.006	0.002	3.09	3.25	9.5	0.01	0.1	0.04	0.15879	0.16701	0.48818	0.00051	0.00514	0.00206
N260	140	12	0	Patch		4	7.77	9.28	18.65	0.02	0.06	0.07	0.417	0.001	0.498	0.003	0.004	3.83	4.53	9.19	0.01	0.06	0.06	0.20536	0.2429	0.49276	0.00054	0.00322	0.00322
N260	141	13	0	Patch		4	6.7	5.75	18.15	0.01	0.16	0.05	0.369	0.001	0.317	0.009	0.003	2.74	2.11	8.14	0.01	0.15	0.04	0.15096	0.11625	0.44848	0.00055	0.00826	0.0022
N260	145	17	0	Patch		4	4.85	6.68	16.39	0.01	0.14	0.03	0.296	0.001	0.408	0.009	0.002	2.08	2.87	8.07	0.01	0.13	0.02	0.12691	0.17511	0.49237	0.00061	0.00793	0.00122
N260	146	18	0	Patch		4	7.02	7.35	16.62	0.01	0.11	0.06	0.422	0.001	0.442	0.007	0.004	2.97	3.16	8.22	0.01	0.1	0.05	0.1787	0.19013	0.49458	0.0006	0.00602	0.00301
N260	147	19	0	Patch		4	5.08	6.76	16.46	0.01	0.05	0.08	0.309	0.001	0.411	0.003	0.005	2.3	2.8	8.13	0.01	0.05	0.07	0.13973	0.17011	0.49392	0.00061	0.00304	0.00425
N260	153	25	0	Patch		8	11.96	12.26	33.61	0.03	0.05	0.18	0.356	0.001	0.365	0.001	0.005	5.87	5.74	16.58	0.02	0.04	0.15	0.17465	0.17078	0.49331	0.0006	0.00119	0.00446
N260	154	26	0	Patch		8	13.23	13.8	31.43	0.04	0.49	0.05	0.421	0.001	0.439	0.016	0.002	6.54	7.13	17.12	0.03	0.47	0.04	0.20808	0.22685	0.5447	0.00095	0.01495	0.00127
N260	155	27	0	Patch		8	11.21	12.74	30.5	0.04	0.17	0.11	0.368	0.001	0.418	0.006	0.004	5.09	6.46	14.72	0.03	0.16	0.11	0.16689	0.2118	0.48262	0.00098	0.00525	0.00361
N260	156	28	0	Patch		8	12.27	15.48	33.46	0.03	0.1	0.26	0.367	0.001	0.463	0.003	0.008	6.45	7.6	17.53	0.02	0.1	0.23	0.19277	0.22714	0.52391	0.0006	0.00299	0.00687
N260	157	29	0	Patch		8	10.89	11.52	35.84	0.03	0.21	0.08	0.304	0.001	0.321	0.006	0.002	4.88	4.83	14.3	0.02	0.18	0.06	0.13616	0.13477	0.399	0.00056	0.00502	0.00167
N260	162	34	0	Patch		8	12.08	13.23	35.25	0.03	0.29	0.04	0.343	0.001	0.375	0.008	0.001	5.73	6.06	15.68	0.02	0.27	0.03	0.16255	0.17191	0.44482	0.00057	0.00766	0.00085
N260	163	35	0	Patch		8	12.12	14.4	31.98	0.04	0.21	0.06	0.379	0.001	0.450	0.007	0.002	5.61	7.22	16.74	0.04	0.2	0.05	0.17542	0.22577	0.52345	0.00125	0.00625	0.00156
N260	164	36	0	Patch		8	12.84	13.38	32.59	0.04	0.15	0.17	0.394	0.001	0.411	0.005	0.005	6.01	6.51	16.99	0.03	0.15	0.16	0.18441	0.19975	0.52133	0.00092	0.0046	0.00491
N260	165	37	0	Patch		8	12.48	13.16	33.54	0.03	0.08	0.17	0.372	0.001	0.392	0.002	0.005	6.11	6.17	17.01	0.03	0.07	0.15	0.18217	0.18396	0.50716	0.00089	0.00209	0.00447

- QTM1 N260 High channel SISO

													Max Ratio												Max Ratio					
													0.482	0.002	0.507	0.014	0.009							0.217	0.248	0.002	0.546	0.014	0.009
n260 high ch.(40GHz)							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	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
N260		0	1	Patch		1	1.27	1.52	0	3.86	0.02	0.01	0.329	0.000	0.394	0.005	0.003	0.45	0.5	0	1.7	0.02	0.01	0.11658	0.12953	0	0.44041	0.00518	0.00259
N260		2	1	Patch		1	1.41	1.06	0	3.56	0.01	0.01	0.396	0.000	0.298	0.003	0.003	0.46	0.36	0	1.54	0.01	0.01	0.12921	0.10112	0	0.43258	0.00281	0.00281
N260		6	1	Patch		2	2.71	2.07	0.01	7.36	0.04	0.01	0.368	0.001	0.281	0.005	0.001	1.19	0.91	0	2.92	0.04	0.01	0.16168	0.12364	0	0.39674	0.00543	0.00136
N260		7	1	Patch		2	1.83	1.49	0.01	4.47	0.04	0	0.409	0.002	0.333	0.009	0.000	0.79	0.65	0.01	2.12	0.04	0	0.17673	0.14541	0.00224	0.47427	0.00895	0
N260		8	1	Patch		2	2.69	2.31	0	7.43	0.01	0.02	0.362	0.000	0.311	0.001	0.003	1.12	1.02	0	3.11	0.01	0.02	0.15074	0.13728	0	0.41857	0.00135	0.00269
N260		9	1	Patch		2	2.32	3.29	0.01	8.24	0.04	0.01	0.282	0.001	0.399	0.005	0.001	0.88	1.28	0	3.34	0.04	0.01	0.1068	0.15534	0	0.40534	0.00485	0.00121
N260		14	1	Patch		2	2.54	3.08	0.01	7.73	0.07	0	0.329	0.001	0.398	0.009	0.000	1.15	1.16	0.01	3.43	0.07	0	0.14877	0.15006	0.00129	0.44373	0.00906	0
N260		15	1	Patch		2	2.94	2.24	0.01	6.69	0.01	0.02	0.439	0.001	0.335	0.001	0.003	1.21	0.93	0	3.09	0.01	0.02	0.18087	0.13901	0	0.46188	0.00149	0.00299
N260		16	1	Patch		2	2.6	2.45	0	7.84	0.03	0.01	0.332	0.000	0.313	0.004	0.001	0.92	0.92	0	3.17	0.02	0.01	0.11735	0.11735	0	0.40434	0.00255	0.00128
N260		20	1	Patch		4	4.78	4.74	0.01	12.85	0.07	0.03	0.372	0.001	0.369	0.005	0.002	2	1.79	0.01	6.08	0.06	0.03	0.15564	0.1393	0.00078	0.47315	0.00467	0.00233
N260		21	1	Patch		4	3.97	5.52	0.02	11.73	0.16	0.01	0.338	0.002	0.471	0.014	0.001	1.85	2.49	0.01	6.25	0.15	0.01	0.15772	0.21228	0.00085	0.53282	0.01279	0.00085
N260		22	1	Patch		4	4.56	3.17	0.02	9.46	0.03	0.04	0.482	0.002	0.335	0.003	0.004	2.05	1.45	0.02	4.65	0.03	0.04	0.2167	0.15328	0.00211	0.49154	0.00317	0.00423
N260		23	1	Patch		4	4.63	5.37	0.01	12.88	0.02	0.05	0.359	0.001	0.417	0.002	0.004	2.11	2.46	0.01	6.58	0.02	0.05	0.16382	0.19099	0.00078	0.51087	0.00155	0.00388
N260		24	1	Patch		4	4.97	4.67	0.01	13.07	0.07	0.02	0.380	0.001	0.357	0.005	0.002	2.12	1.73	0.01	6.06	0.07	0.02	0.1622	0.13236	0.00077	0.46366	0.00536	0.00153
N260		30	1	Patch		4	4.91	6.06	0.01	13.13	0.12	0.03	0.374	0.001	0.462	0.009	0.002	2.1	2.58	0.01	6.99	0.11	0.02	0.15994	0.1965	0.00076	0.53237	0.00838	0.00152
N260		31	1	Patch		4	3.5	3.58	0.02	8.95	0.1	0.01	0.391	0.002	0.400	0.011	0.001	1.56	1.48	0.02	4.25	0.1	0.01	0.1743	0.16536	0.00223	0.47486	0.01117	0.00112
N260		32	1	Patch		4	5.08	4.58	0.01	11.81	0.02	0.06	0.430	0.001	0.388	0.002	0.005	2.4	2.16	0.01	6.17	0.02	0.05	0.20322	0.1829	0.00085	0.52244	0.00169	0.00423
N260		33	1	Patch		4	4.23	5.03	0.01	12.89	0.03	0.04	0.328	0.001	0.390	0.002	0.003	1.53	1.97	0.01	6.1	0.02	0.04	0.1187	0.15283	0.00078	0.47324	0.00155	0.0031
N260		128	1	Patch		1	1.34	1.16	0	3.31	0.02	0.01	0.405	0.000	0.350	0.006	0.003	0.43	0.38	0	1.45	0.02	0.01	0.12991	0.1148	0	0.43807	0.00604	0.00302
N260		130	1	Patch		1	0.89	1.38	0	3.27	0.02	0.01	0.272	0.000	0.422	0.006	0.003	0.27	0.47	0	1.46	0.02	0.01	0.08257	0.14373	0	0.44648	0.00612	0.00306
N260		134	1	Patch		2	3.24	2.19	0.01	7.84	0.03	0.02	0.413	0.001	0.279	0.004	0.003	1.32	0.78	0.01	3.03	0.02	0.01	0.16837	0.09949	0.00128	0.38648	0.00255	0.00128
N260		135	1	Patch		2	2.45	2.24	0.01	5.97	0.06	0.01	0.410	0.002	0.375	0.010	0.002	0.9	0.93	0	2.73	0.06	0.01	0.15075	0.15578	0	0.45729	0.01005	0.00168
N260		136	1	Patch		2	1.94	2.53	0	6.17	0.01	0.02	0.314	0.000	0.410	0.002	0.003	0.88	1.16	0	2.9	0.01	0.02	0.14263	0.18801	0	0.47002	0.00162	0.00324
N260		137	1	Patch		2	3.45	2.42	0.01	8.26	0.05	0.01	0.418	0.001	0.293	0.006	0.001	1.22	1.05	0	3.28	0.05	0.01	0.1477	0.12712	0	0.39709	0.00605	0.00121
N260		142	1	Patch		2	2.65	2.04	0	6.62	0.06	0.01	0.400	0.000	0.308	0.009	0.002	0.93	0.81	0	2.82	0.06	0.01	0.14048	0.12236	0	0.42598	0.00906	0.00151
N260		143	1	Patch		2	2.32	2.05	0.01	5.89	0.03	0.04	0.394	0.002	0.348	0.005	0.007	0.95	0.82	0.01	2.61	0.03	0.03	0.16129	0.13922	0.0017	0.44312	0.00509	0.00509
N260		144	1	Patch		2	2.05	2.68	0.01	7.15	0.04	0.02	0.287	0.001	0.375	0.006	0.003	0.69	1.08	0	2.83	0.03	0.01	0.0965	0.15105	0	0.3958	0.0042	0.0014
N260		148	1	Patch		4	4.64	4.87	0.01	12.3	0.1	0.01	0.377	0.001	0.396	0.008	0.001	1.65	2.09	0.01	5.93	0.1	0.01	0.13415	0.16992	0.00081	0.48211	0.00813	0.00081
N260		149	1	Patch		4	5.21	3.65	0.01	10.84	0.15	0.02	0.481	0.001	0.337	0.014	0.002	2.15	1.66	0.01	5.17	0.15	0.02	0.19834	0.15314	0.00092	0.47694	0.01384	0.00185
N260		150	1	Patch		4	2.61	4.16	0.01	8.21	0.02	0.07	0.318	0.001	0.507	0.002	0.009	1.23	2.04	0.01	4.27	0.02	0.07	0.14982	0.24848	0.00122	0.5201	0.00244	0.00853
N260		151	1	Patch		4	5.1	4.56	0.01	12.27	0.01	0.04	0.416	0.001	0.372	0.001	0.003	2.42	2.05	0.01	6.34	0.01	0.03	0.19723	0.16707	0.00081	0.51671	0.00081	0.00244
N260		152	1	Patch		4	4.25	4.72	0.01	12.35	0.08	0.01	0.344	0.001	0.382	0.006	0.001	1.74	2.01	0.01	5.47	0.07	0.01	0.14089	0.16275	0.00081	0.44291	0.00567	0.00081
N260		158	1	Patch		4	4.9	5.06	0.01	12.38	0.13	0.01	0.396	0.001	0.409	0.011	0.001	1.94	2.26	0.01	6.22	0.12	0.01	0.1567	0.18255	0.00081	0.50242	0.00969	0.00081
N260		159	1	Patch		4	4.14	3.14	0.02	8.93	0.11	0.02	0.464	0.002	0.352	0.012	0.002	1.56	1.49	0.01	4.08	0.11	0.02	0.17469	0.16685	0.00112	0.45689	0.01232	0.00224
N260		160	1	Patch		4	4.64	4.88	0.01	11.11	0.02	0.06	0.418	0.001	0.439	0.002	0.005	2.3	2.4	0.01	6.07	0.02	0.05	0.20702	0.21602	0.0009	0.54635	0.0018	0.0045
N260		161	1	Patch		4	4.43	4.43	0.01	12.32	0.05	0.02	0.360	0.001	0.360	0.004	0.002	1.94	1.71	0.01	5.24	0.04	0.01	0.15747	0.1388	0.00081	0.42532	0.00325	0.00081

- QTM1 N260 High channel MIMO

													Max Ratio												Max Ratio					
													0.487	0.002	0.502	0.015	0.009							0.216	0.243	0.001	0.557	0.015	0.008
N260	128	0	1	Patch		2	3.63	3.75	0.01	7.57	0.04	0.02	0.480	0.001	0.495	0.005	0.003	1.22	1.290	0	3.560	0.04	0.020	0.16116	0.17041	0	0.47028	0.00528	0.00264
N260	130	2	1	Patch		2	3.29	3.61	0.01	7.38	0.04	0.02	0.446	0.001	0.489	0.005	0.003	1.05	1.250	0	3.560	0.04	0.010	0.14228	0.16938	0	0.48238	0.00542	0.00136
N260	134	6	1	Patch		4	6.13	4.4	0.01	13.27	0.11	0.04	0.462	0.001	0.332	0.008	0.003	2.34	1.590	0.01	6.650	0.1	0.030	0.17634	0.11982	0.00075	0.50113	0.00754	0.00226
N260	135	7	1	Patch		4	5.97	4.71	0.02	12.26	0.18	0.02	0.487	0.002	0.384	0.015	0.002	2.35	2.100	0.01	6.060	0.18	0.020	0.19168	0.17129	0.00082	0.49429	0.01468	0.00163
N260	136	8	1	Patch		4	6.73	7.44	0.02	14.82	0.04	0.05	0.454	0.001	0.502	0.003	0.003	3.04	3.480	0.01	7.100	0.04	0.050	0.20513	0.23482	0.00067	0.47908	0.0027	0.00337
N260	137	9	1	Patch		4	7.66	7.44	0.02	17.85	0.09	0.03	0.429	0.001	0.417	0.005	0.002	2.7	2.770	0.01	7.670	0.08	0.030	0.15126	0.15518	0.00056	0.42969	0.00448	0.00168
N260	142	14	1	Patch		4	6.25	5.09	0.01	15.65	0.14	0.02	0.399	0.001	0.325	0.009	0.001	2.78	2.190	0.01	7.180	0.13	0.020	0.17764	0.13994	0.00064	0.45879	0.00831	0.00128
N260	143	15	1	Patch		4	7.07	4.99	0.01	14.7	0.05	0.09	0.481	0.001	0.339	0.003	0.006	2.86	2.200	0.01	6.750	0.05	0.080	0.19456	0.14966	0.00068	0.45918	0.0034	0.00544
N260	144	16	1	Patch		4	5.33	6.37	0.01	15.24	0.11	0.05	0.350	0.001	0.418	0.007	0.003	1.94	2.740	0.01	6.110	0.1	0.050	0.1273	0.17979	0.00066	0.40092	0.00656	0.00328
N260	148	20	1	Patch		8	9.76	10.94	0.02	26.42	0.21	0.05	0.369	0.001	0.414	0.008	0.002	4.3	4.750	0.02	12.730	0.2	0.050	0.16276	0.17979	0.00076	0.48183	0.00757	0.00189
N260	149	21	1	Patch		8	10.3	11	0.03	25.6	0.37	0.04	0.402	0.001	0.430	0.014	0.002	4.65	5.320	0.03	13.540	0.36	0.040	0.18164	0.20781	0.00117	0.52891	0.01406	0.00156
N260	150	22	1	Patch		8	9.38	9.65	0.04	22.67	0.06	0.15	0.414	0.002	0.426	0.003	0.007	4.37	4.680	0.03	11.510	0.05	0.130	0.19277	0.20644	0.00132	0.50772	0.00221	0.00573
N260	151	23	1	Patch		8	10.56	11.44	0.03	26.79	0.04	0.14	0.394	0.001	0.427	0.001	0.005	5.05	5.500	0.02	13.600	0.04	0.120	0.1885	0.2053	0.00075	0.50765	0.00149	0.00448
N260	152	24	1	Patch		8	9.98	10.22	0.02	27.44	0.16	0.03	0.364	0.001	0.372	0.006	0.001	4.03	4.310	0.02	12.690	0.15	0.030	0.14687	0.15707	0.00073	0.46246	0.00547	0.00109
N260	158	30	1	Patch		8	10.22	11.37	0.03	25.53	0.37	0.05	0.400	0.001	0.445	0.014	0.002	4.44	5.400	0.03	13.370	0.34	0.040	0.17391	0.21152	0.00118	0.5237	0.01332	0.00157
N260	159	31	1	Patch		8	10.22	8.99	0.03	24	0.26	0.05	0.426	0.001	0.375	0.011	0.002	4.19	4.160	0.03	11.470	0.25	0.040	0.17458	0.17333	0.00125	0.47792	0.01042	0.00167
N260	160	32	1	Patch		8	10.53	11.61	0.02	24.54	0.06	0.22	0.429	0.001	0.473	0.002	0.009	5.29	5.960	0.02	13.680	0.05	0.190	0.21557	0.24287	0.00081	0.55746	0.00204	0.00774
N260	161	33	1	Patch		8	9.35	9.98	0.02	27.14	0.09	0.08	0.345	0.001	0.368	0.003	0.003	3.67	3.780	0.01	11.650	0.09	0.070	0.13522	0.13928	0.00037	0.42926	0.00332	0.00258

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	0.7
	1	2.2
N260	0	0.2
	1	1.2

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.

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 $\emptyset_{worstcase}$ 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 $\boldsymbol{\Delta min}$ **(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*

N261		
(Beam Pair)	Beam ID	Input.power.limit
NA	0	9.04
	1	8.12
	2	8.88
	3	6.72
	4	7
	5	7.16
	6	6.31
	7	6.62
	8	7.18
	9	4.99
	10	4.62
	11	3.83
	12	4.16
	13	6.25
	14	5.62
	15	6.56
	16	4
	17	3.62
	18	4.08
	19	4.01
	20	3.1
	21	3.11
	22	3.47
	23	5.28
	24	3.1
	25	1.65
	26	1.33
	27	1.38
	28	1.91
	29	3.47
	30	3.06
	31	3.23
	32	4.1
	33	2.29
	34	1.36
	35	1.43
	36	1.49
	128	9.09
	129	7.67
	130	9.33
	131	7.2
	132	7.22
	133	7.03
	134	6.02
	135	5.88
	136	7.1
	137	5.24
	138	4.67
	139	4.01
	140	5.09
	141	6.6
	142	5.94
	143	6.25
	144	4.29
	145	4.18
	146	4.15
	147	4.87
	148	3.55
	149	3.54
	150	3.76
	151	4.48
	152	2.73
	153	2.04
	154	1.5
	155	1.35
	156	2.42
	157	4.05
	158	3.38
	159	3.81
	160	3.94
	161	2.37
	162	1.73
	163	1.45
	164	1.74

N260		
(Beam Pair)	Beam ID	input.power.limit
NA	0	7.37
	1	7.04
	2	7.61
	3	6.28
	4	6.07
	5	7.33
	6	4.89
	7	6.03
	8	4.93
	9	4.75
	10	3.62
	11	3.22
	12	4.1
	13	3.33
	14	4.85
	15	4.81
	16	4.24
	17	3.69
	18	4.52
	19	3.54
	20	2.54
	21	2.58
	22	3.22
	23	2.6
	24	2.49
	25	1.24
	26	1.63
	27	2.66
	28	1.46
	29	1.05
	30	2.51
	31	3.46
	32	2.61
	33	2.56
	34	1.27
	35	2.21
	36	2.13
	37	1.19
	128	7.9
	129	6.66
	130	8.1
	131	6.49
	132	6.99
	133	7.86
	134	4.75
	135	5.41
	136	5.67
	137	4.72
	138	3.62
	139	4.16
	140	4.19
	141	3.56
	142	5.03
	143	5.58
	144	5.2
	145	4.23
	146	4.33
	147	4.29
	148	2.74
	149	3.04
	150	3.69
	151	2.84
	152	2.76
	153	1.66
	154	1.93
	155	2.53
	156	1.64
	157	1.46
	158	2.72
	159	3.81
	160	2.92
	161	2.76
	162	1.65
	163	2.33
	164	1.99
	165	1.59

N261		
(Beam Pair)	Beam ID	input.power.limit
129	1	4.45
131	3	3.68
132	4	3.84
137	9	1.68
138	10	1.41
139	11	0.72
140	12	1.9
144	16	0.93
145	17	0.84
146	18	0.77
152	24	-1.12
153	25	-1.3
154	26	-1.87
155	27	-2.04
156	28	-1.25
161	33	-1.18
162	34	-1.84
163	35	-1.85
164	36	-1.58
128	0	5.81
130	2	5.87
133	5	3.71
134	6	2.76
135	7	3.1
136	8	3.81
141	13	3.02
142	14	2.6
143	15	3.25
147	19	0.92
148	20	-0.19
149	21	-0.13
150	22	0.31
151	23	0.99
157	29	0.64
158	30	-0.25
159	31	-0.01
160	32	0.75

N260		
(Beam Pair)	Beam ID	input.power.limit
129	1	3.71
131	3	3.19
132	4	3.29
133	5	4.23
138	10	1.2
139	11	0.49
140	12	0.98
141	13	1.09
145	17	1.53
146	18	1.39
147	19	1.52
153	25	-1.92
154	26	-1.55
155	27	-1.16
156	28	-1.82
157	29	-2.09
162	34	-1.95
163	35	-1.37
164	36	-1.45
165	37	-1.87
128	0	4.27
130	2	4.47
134	6	2.52
135	7	2.71
136	8	1.8
137	9	1.35
142	14	1.78
143	15	2.13
144	16	1.59
148	20	-0.69
149	21	-0.26
150	22	0.28
151	23	-0.62
152	24	-0.78
158	30	-0.58
159	31	0.04
160	32	-0.49
161	33	-0.69

5.3.4 Further limitation and power backoff consideration

This EUT will use the Legacy power backoff solution to limit mmW transmit power from all the beams. The mechanism in legacy power backoff solution can only control the transmit power per QTM per band per SISO or MIMO beam, therefore, in order to ensure compliance all times, for each band, the minimum of input.power.limit out of all SISO beams and minimum of input.power.limit out of all MIMO beams needs to be determined and applied via legacy backoff solution accordingly.

The minimum power limit, min.power.limit, is determined based on Table 5-3 and listed in Table 5-4. Note the min.power.limit data rounded to one decimal place.

Table 5-4: SISO and MIMO min.power.limit for each band

N261	min.power.limit
min input.power.limit out of all SISO beams from QTM0 (dBm)	1.3
min input.power.limit out of all MIMO beams from QTM0 (dBm)	-2.0
min input.power.limit out of all SISO beams from QTM1 (dBm)	3.1
min input.power.limit out of all MIMO beams from QTM1 (dBm)	-0.3
N260	min.power.limit
min input.power.limit out of all SISO beams from QTM0 (dBm)	1.1
min input.power.limit out of all MIMO beams from QTM0 (dBm)	-2.1
min input.power.limit out of all SISO beams from QTM1 (dBm)	2.5
min input.power.limit out of all MIMO beams from QTM1 (dBm)	-0.8

Furthermore, the additional power backoff needs to be added in order to comply with TER requirement when mmW NR, LTE and WLAN MIMO transmit simultaneously. The maximum allowed PD budget is provided based on simultaneous transmission *reported* SAR in Part 1 report. For a given exposure scenario, if the maximum PD contribution ratio is higher than the corresponding maximum allowed PD budget, then the additional power backoff for TER requirement is determined using equation:

$$additional\ power\ backoff\ (dB) = 10 * \log\left(\frac{maximum\ PD\ contribution\ ratio\ (in\ linear)}{maximum\ allowed\ PD\ budget\ (in\ linear)}\right)$$

<u>Examples for n261:</u>

1. For head exposure, the maximum allowed PD budget is 0.44, the maximum PD contribution from left surface (QTM0) at 2mm to front surface at 2mm out of all SISO beams of QTM0 is 0.516, then the additional power backoff is 0.9dB (=10*log(0.516/0.44)) for all SISO beams of QTM0.
2. For hotspot exposure where SAR measured at 10mm separation distance from front surface, the maximum allowed PD budget is 0.72, the maximum PD contribution from left surface (QTM0) at 2mm to front surface at 10mm out of all SISO beams of QTM0 is 0.240, then no additional power backoff is needed.

Following the similar steps described in the above examples, all additional power backoff required for TER requirement is listed in Table 5-5.

Table 5-5: Additional power backoff required for TER requirement

n261

RF Exposure Position		SAR Test Distance (mm)	Max allowed PD budget (in linear)	max PD contribution ratio out of all SISO beams from QTM0 (left)	max PD contribution ratio out of all MIMO beams from QTM0 (left)	max PD contribution ratio out of all SISO beams from QTM1 (right)	max PD contribution ratio out of all MIMO beams from QTM1(right)	dB **Additional backoff needed for QTM0 SISO beams**	**Additional backoff needed for QTM0 MIMO beams**	**Additional backoff needed for QTM1 SISO beams**	**Additional backoff needed for QTM1 MIMO beams**
Head_worst-case (front)		0	0.44	0.516	0.505	0.546	0.551	**0.7**	**0.6**	**0.9**	**0.9**
Flat phantom	Front	10	0.72	0.240	0.259	0.263	0.269	0.0	0.0	0.0	0.0
	Back		0.58	0.232	0.259	0.263	0.266	0.0	0.0	0.0	0.0
	Left		0.92	0.572	0.626	0.004	0.003	0.0	0.0	0.0	0.0
	Right		0.75	0.003	0.002	0.580	0.617	0.0	0.0	0.0	0.0
	Top		0.70	0.014	0.015	0.022	0.015	0.0	0.0	0.0	0.0
	Bottom		0.97	0.010	0.008	0.009	0.007	0.0	0.0	0.0	0.0

n260

RF Exposure Position		SAR Test Distance (mm)	Max allowed PD budget (in linear)	max PD contribution ratio out of all SISO beams from QTM0 (left)	max PD contribution ratio out of all MIMO beams from QTM0 (left)	max PD contribution ratio out of all SISO beams from QTM1 (right)	max PD contribution ratio out of all MIMO beams from QTM1(right)	Additional backoff needed for QTM0 SISO beams	Additional backoff needed for QTM0 MIMO beams	Additional backoff needed for QTM1 SISO beams	Additional backoff needed for QTM1 MIMO beams
Head_worst-case		0	0.44	0.420	0.437	0.482	0.487	**0.00**	**0.00**	**0.36**	**0.40**
Flat phantom	Front	10	0.72	0.211	0.208	0.233	0.240	0.00	0.00	0.00	0.00
	Back		0.58	0.262	0.248	0.248	0.247	0.00	0.00	0.00	0.00
	Left		0.92	0.580	0.606	0.002	0.002	0.00	0.00	0.00	0.00
	Right		0.75	0.001	0.001	0.580	0.600	0.00	0.00	0.00	0.00
	Top		0.70	0.013	0.015	0.014	0.015	0.00	0.00	0.00	0.00
	Bottom		0.97	0.008	0.008	0.009	0.008	0.00	0.00	0.00	0.00

5.3.5 PD char

Based on Table 5-4 and Table 5-5, the PD char for compliance via legacy power backoff solution can be finalized listed as Table 5-6 and will be implemented in production units.

Table 5-6: Final PD Char

n261		
QTM/beam ty	additional backoff (dB) for TER	**Final input.power.limit**
QTM0 SISO be	0.7	0.7
QTM0 MIMO b	0.6	-2.6
QTM1 SISO be	0.9	2.2
QTM1 MIMO b	0.9	-1.2

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QTM/beam ty	additional backoff (dB) for TER	**Final input.power.limit**
QTM0 SISO be	0	0.7
QTM0 MIMO b	0	-2.4
QTM1 SISO be	0.36	2.1
QTM1 MIMO b	0.4	-1.2