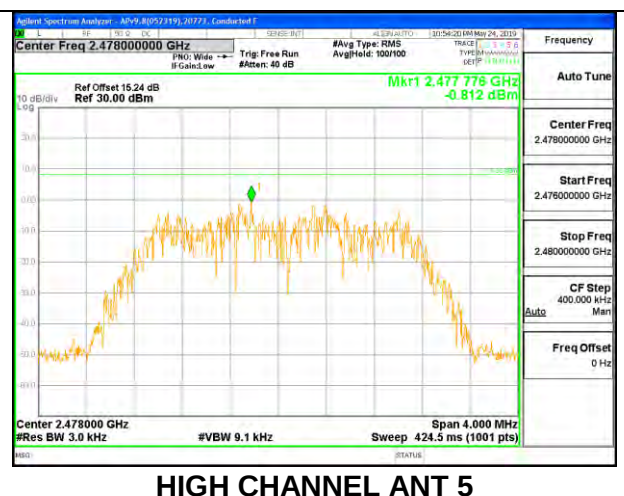
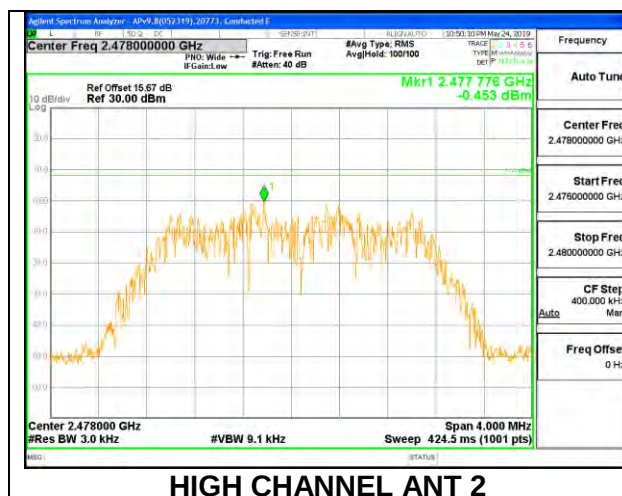
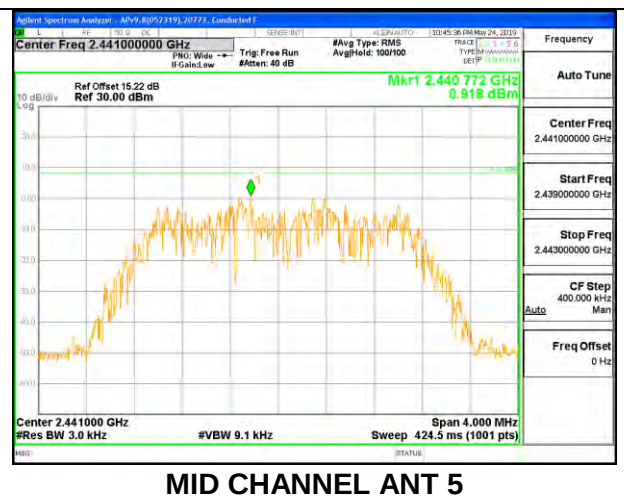
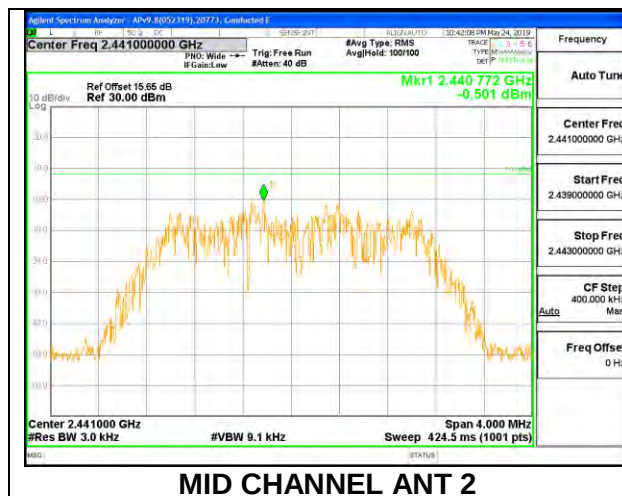
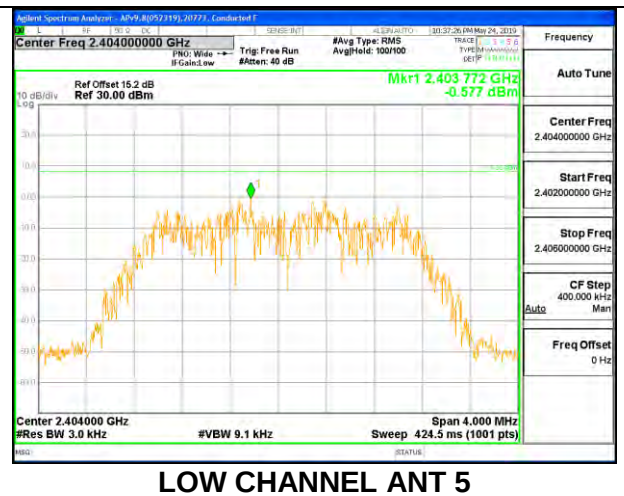
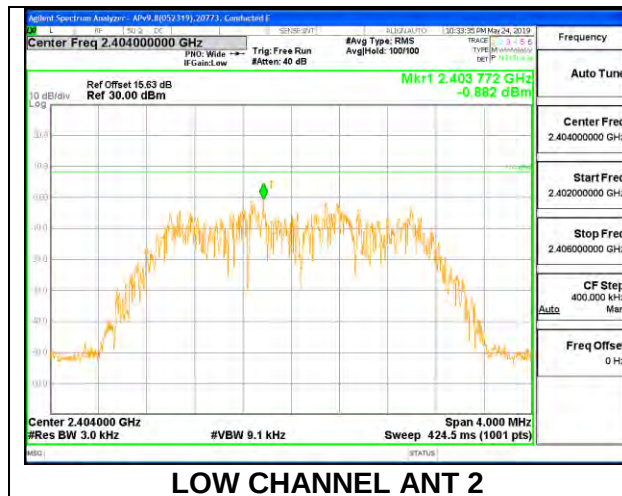


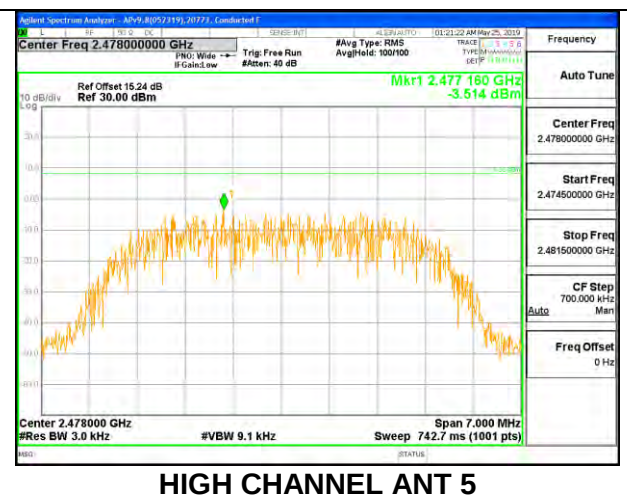
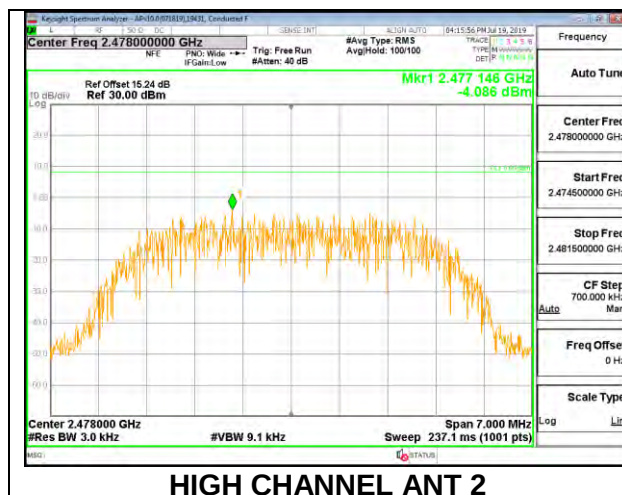
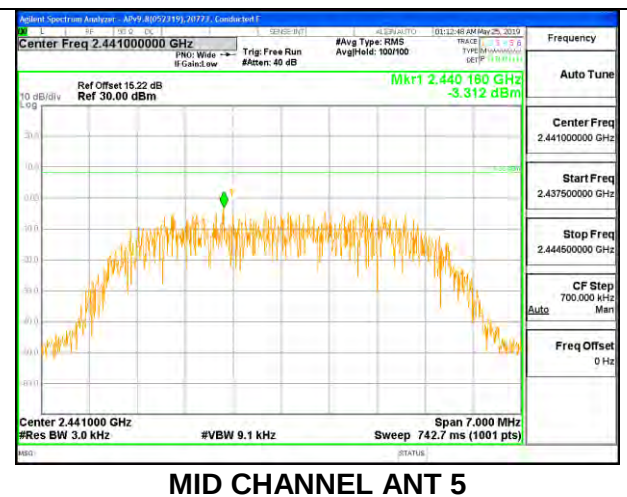
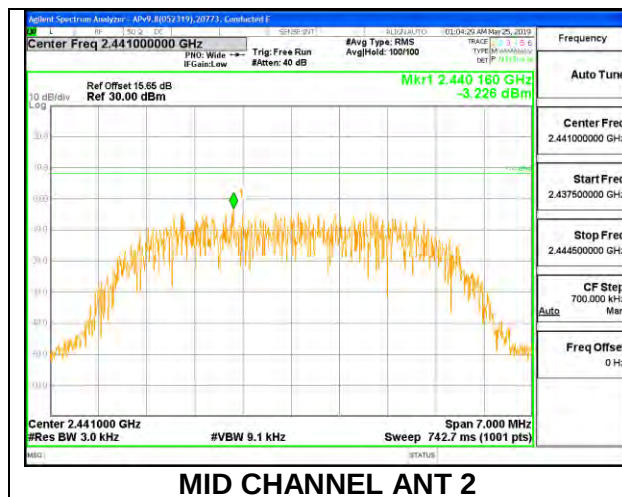
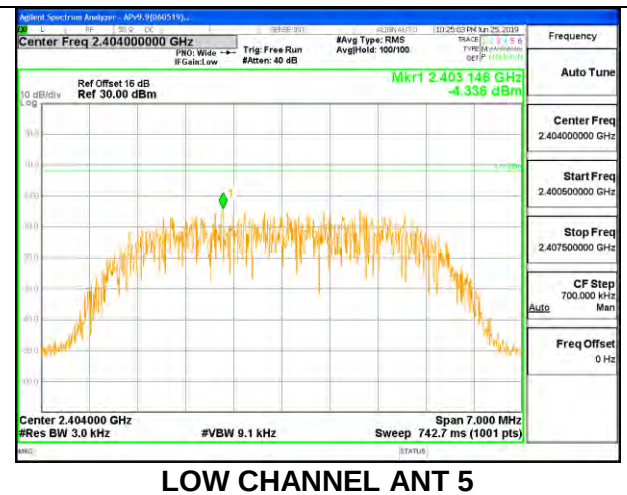
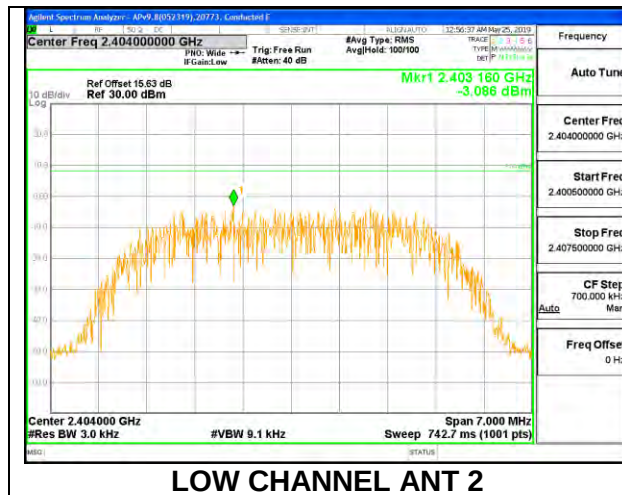


8.10.2. HIGH POWER HDR (HDR8)

Duty Cycle CF (dB)		Included in Calculations of Corr'd PSD
---------------------------	--	---

PSD Results

Channel	Frequency (MHz)	ANT 2 Meas (dBm/ 3kHz)	ANT 5 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2404	-3.086	-4.366	-0.669	8.0	-8.669
Mid	2441	-3.226	-3.312	-0.258	8.0	-8.258
High	2478	-4.086	-3.514	-0.780	8.0	-8.780

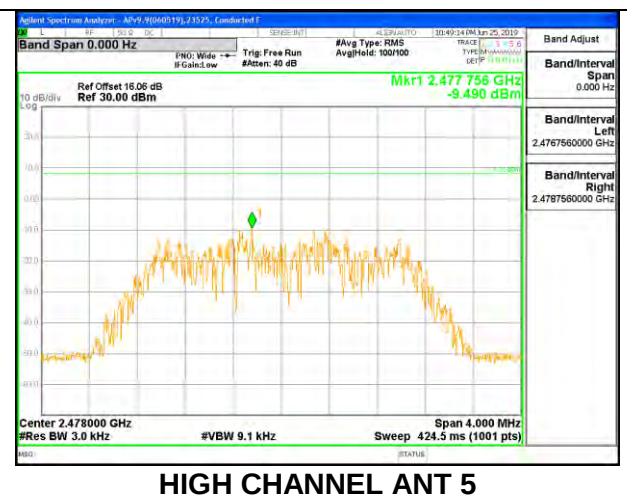
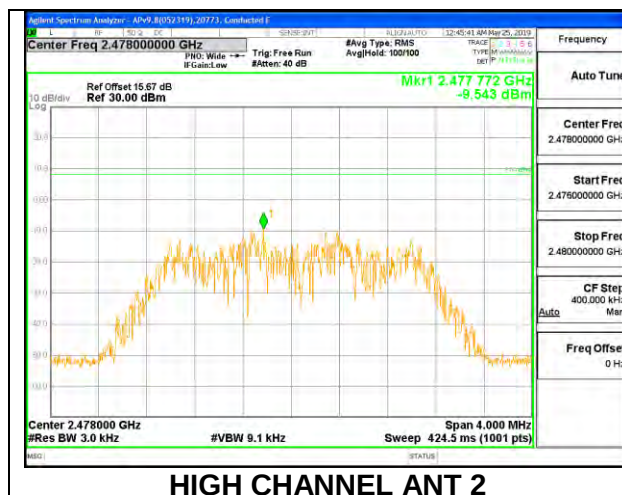
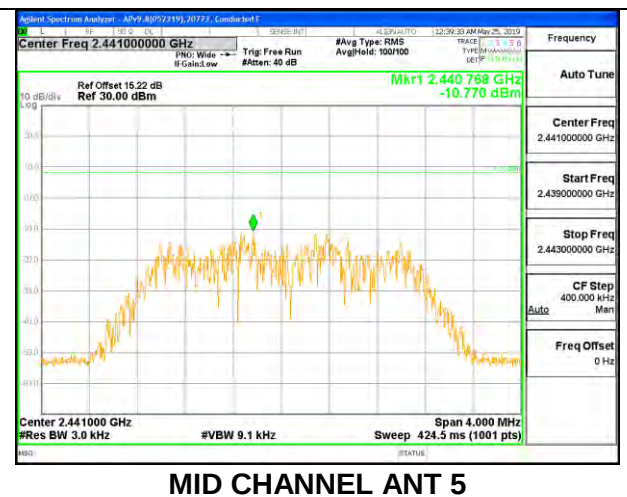
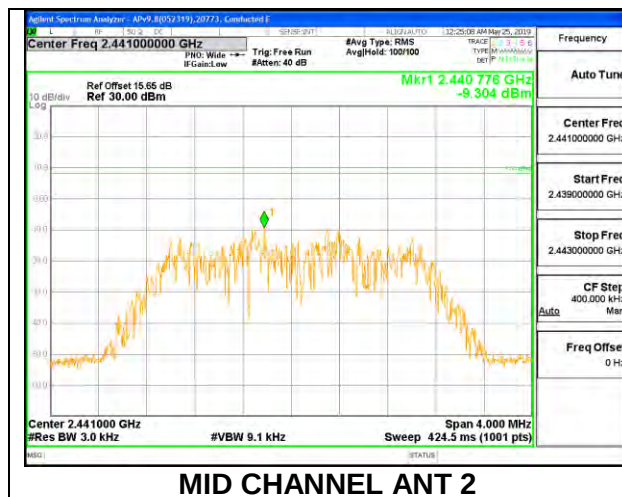
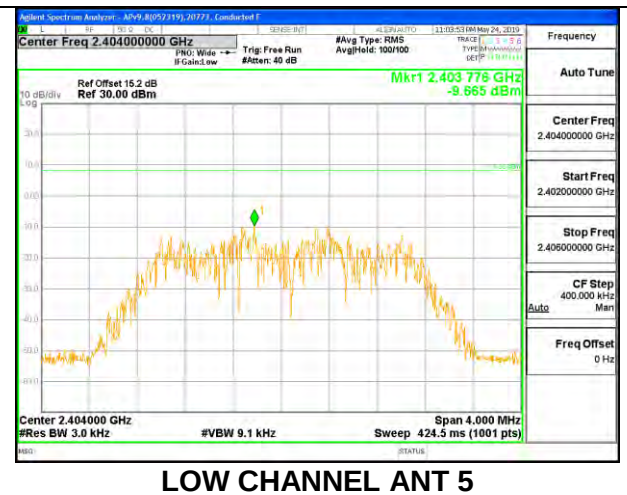
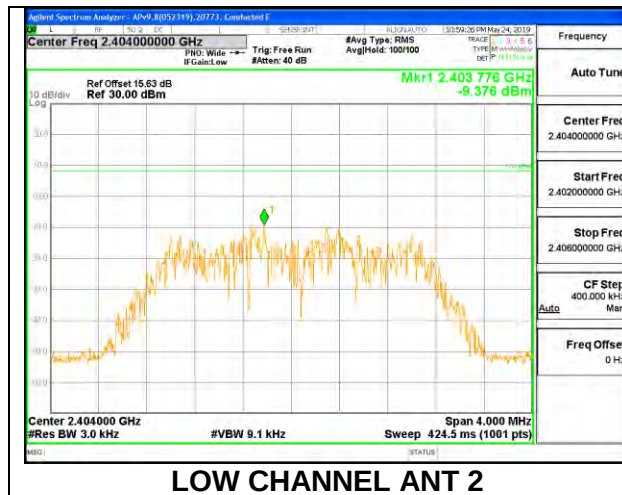


8.10.3. LOW POWER HDR (HDR4)

Duty Cycle CF (dB)	Included in Calculations of Corr'd PSD
--------------------	--

PSD Results

Channel	Frequency (MHz)	ANT 2 Meas (dBm/ 3kHz)	ANT 5 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2404	-9.376	-9.665	-6.508	8.0	-14.508
Mid	2441	-9.304	-10.770	-6.965	8.0	-14.965
High	2478	-9.543	-9.490	-6.506	8.0	-14.506

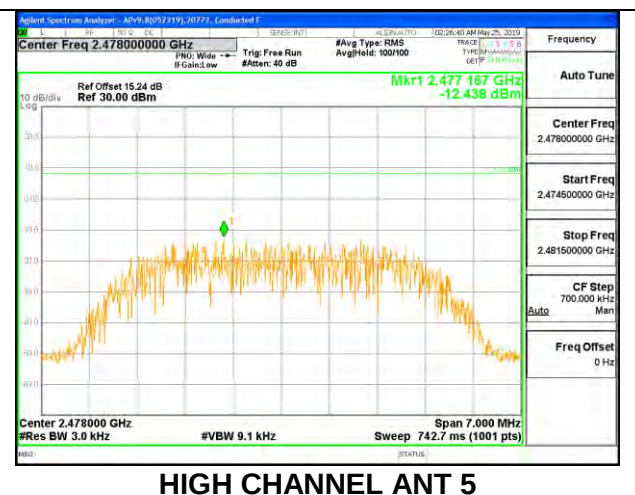
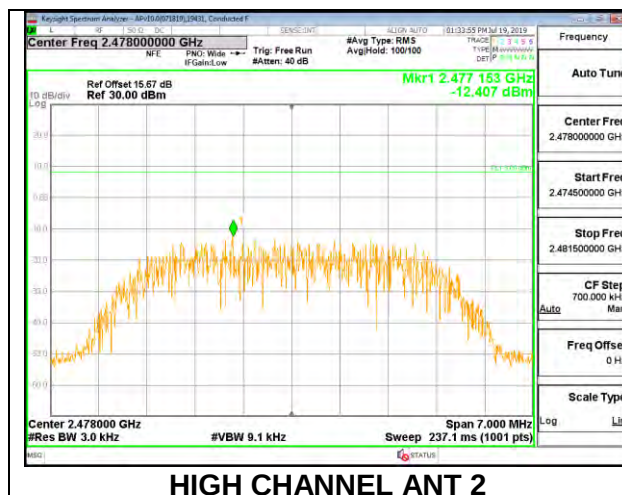
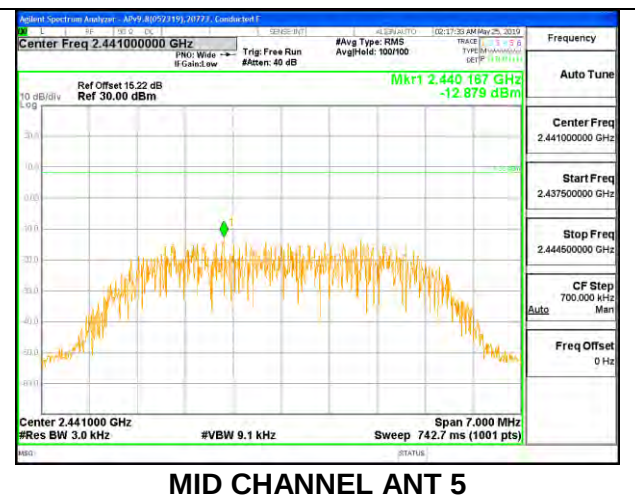
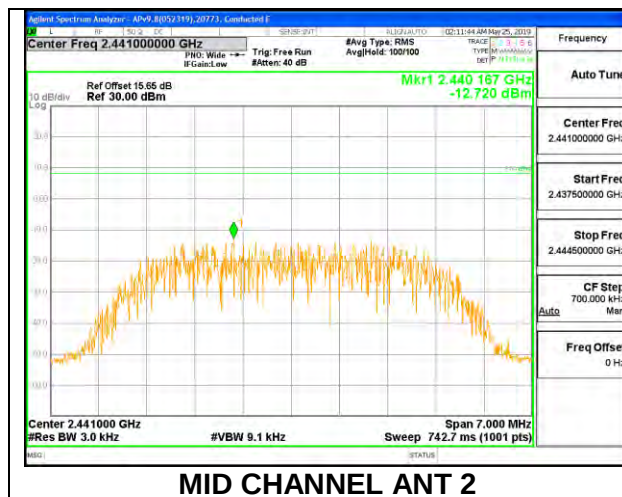
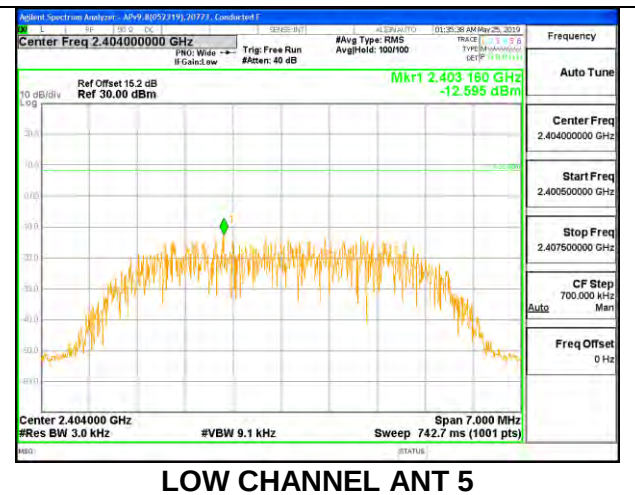
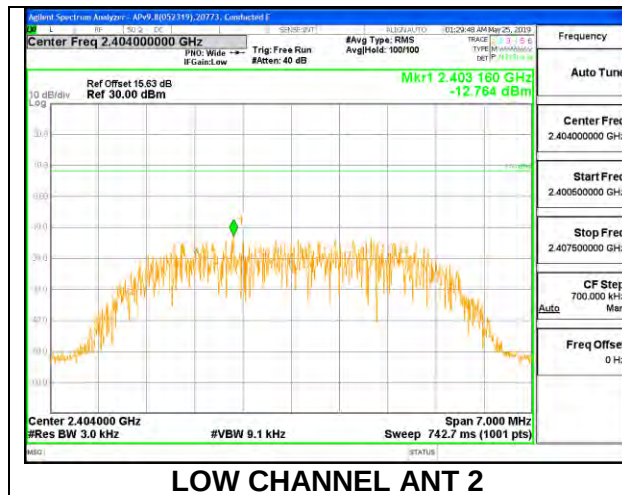


8.10.4. LOW POWER HDR (HDR8)

Duty Cycle CF (dB)	Included in Calculations of Corr'd PSD
--------------------	--

PSD Results

Channel	Frequency (MHz)	ANT 2 Meas (dBm/ 3kHz)	ANT 5 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low	2404	-12.764	-12.595	-9.668	8.0	-17.668
Mid	2441	-12.720	-12.879	-9.788	8.0	-17.788
High	2478	-12.407	-12.438	-9.412	8.0	-17.412



8.11. BEAMFORMING OUTPUT POWER

8.11.1. HIGH POWER HDR (HDR4)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2404	14.15	14.24	17.21	30	-12.79
Middle	2441	14.21	14.14	17.19	30	-12.81
High	2478	14.09	14.22	17.17	30	-12.83

8.11.2. HIGH POWER HDR (HDR8)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2404	14.72	14.71	17.73	30	-12.27
Middle	2441	14.75	14.78	17.78	30	-12.22
High	2478	14.63	14.71	17.68	30	-12.32

Note: Test procedures and setting on beamforming are same as HDR normal mode

8.11.3. LOW POWER HDR (HDR4)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2404	8.72	8.71	11.73	30	-18.27
Middle	2441	8.70	8.68	11.70	30	-18.30
High	2478	8.74	8.67	11.72	30	-18.28

8.11.4. LOW POWER HDR (HDR8)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Output Power Antenna 2 (dBm)	Output Power Antenna 5 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	2404	9.18	9.26	12.23	30	-17.77
Middle	2441	9.21	9.21	12.22	30	-17.78
High	2478	9.27	9.23	12.26	30	-17.74

8.12. BEAMFORMING AVERAGE POWER

8.12.1. HIGH POWER HDR (HDR4)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2404	11.65	11.74	14.71
Middle	2441	11.72	11.64	14.69
High	2478	11.59	11.71	14.66

8.12.2. HIGH POWER HDR (HDR8)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2404	11.69	11.69	14.70
Middle	2441	11.73	11.75	14.75
High	2478	11.61	11.70	14.67

Note: Test procedures and setting on beamforming are same as HDR normal mode

8.12.3. LOW POWER HDR (HDR4)

2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2404	6.22	6.21	9.23
Middle	2441	6.19	6.20	9.21
High	2478	6.24	6.19	9.23

8.12.4. LOW POWER HDR (HDR8)

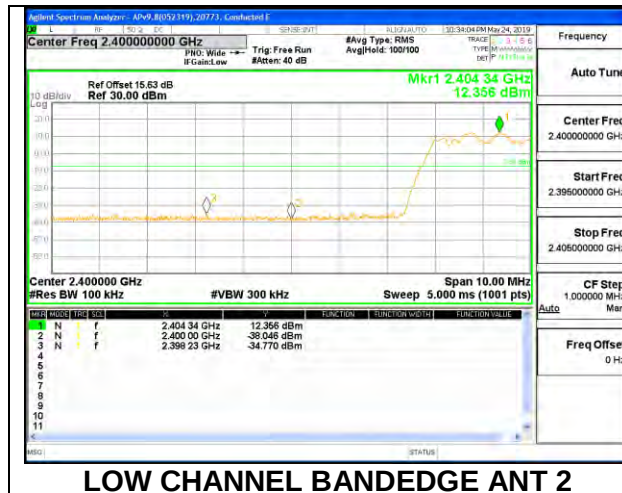
2TX Antenna 2 + Antenna 5 TxBF Mode

Tested By:	39316
Date:	6/27/2019

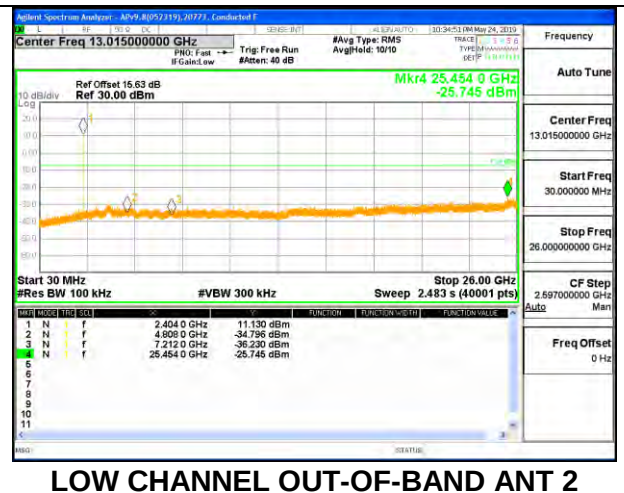
Channel	Frequency (MHz)	Average Power Antenna 2 (dBm)	Average Power Antenna 5 (dBm)	Total Power (dBm)
Low	2404	6.17	6.22	9.21
Middle	2441	6.19	6.18	9.20
High	2478	6.24	6.21	9.24

8.13. BEAMFORMING, CONDUCTED SPURIOUS

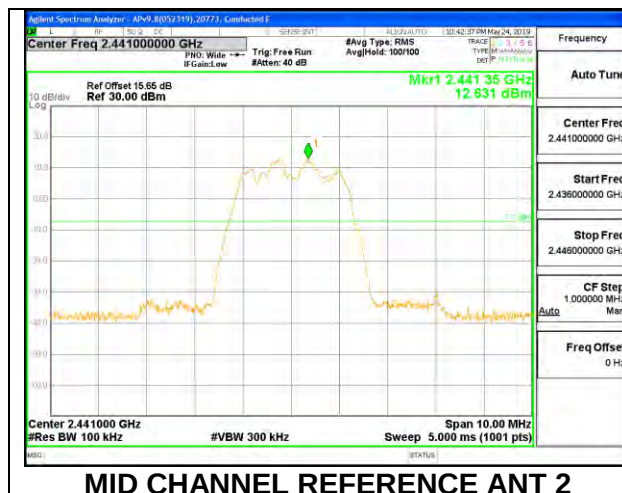
8.13.1. HIGH POWER HDR (HDR4)



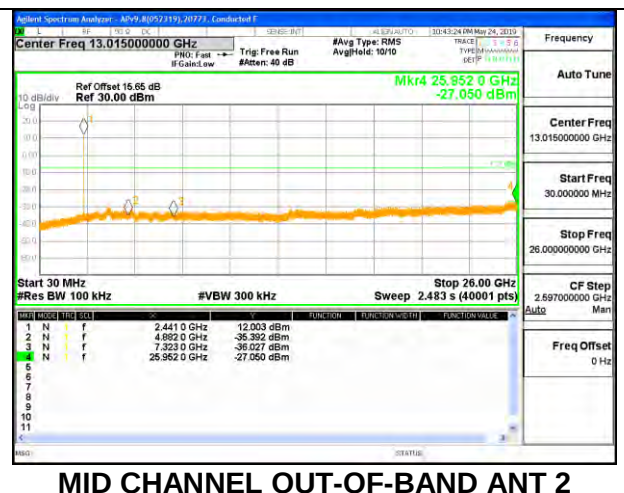
LOW CHANNEL BANDEDGE ANT 2



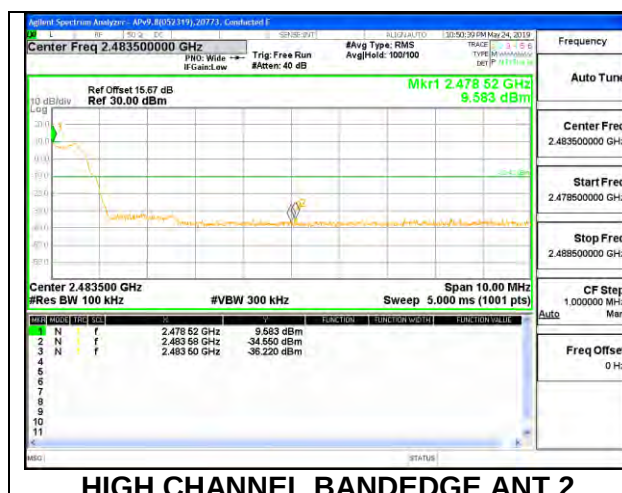
LOW CHANNEL OUT-OF-BAND ANT 2



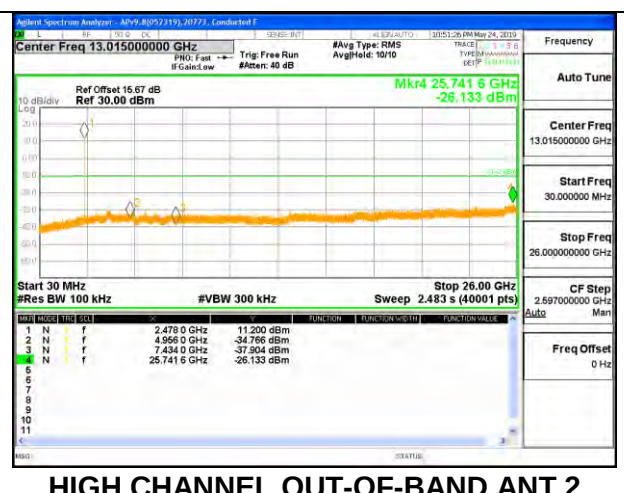
MID CHANNEL REFERENCE ANT 2



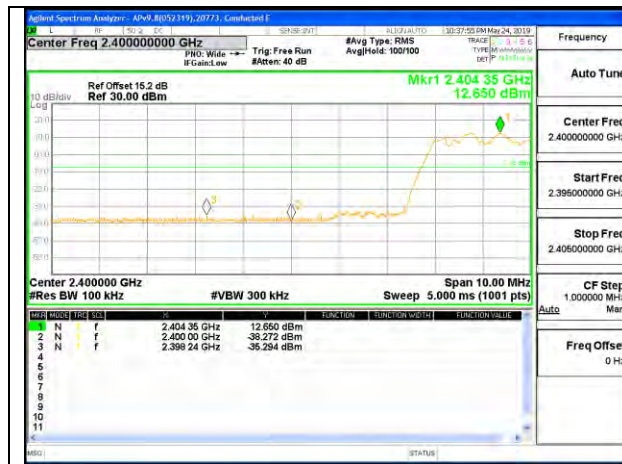
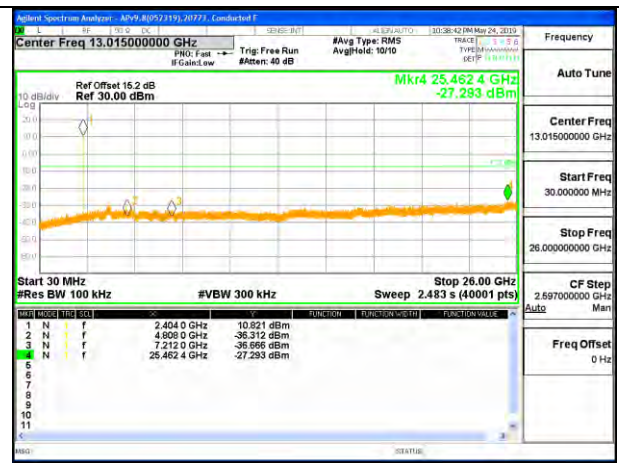
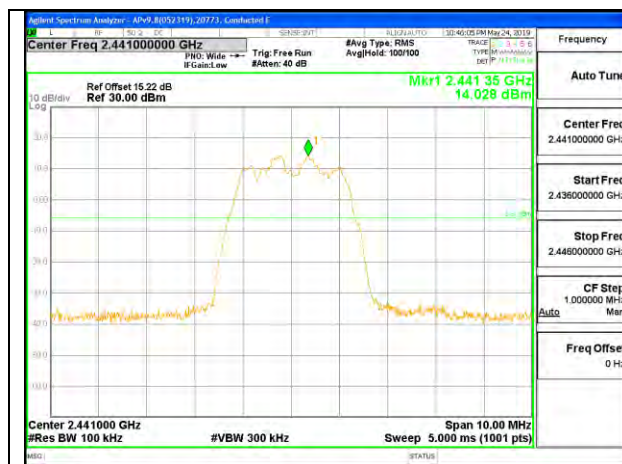
MID CHANNEL OUT-OF-BAND ANT 2



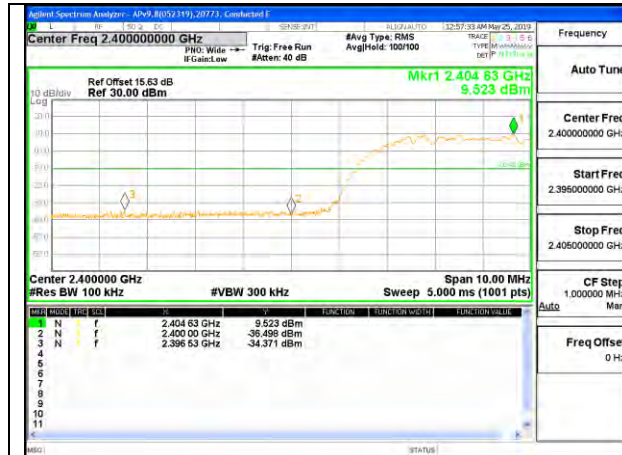
HIGH CHANNEL BANDEDGE ANT 2



HIGH CHANNEL OUT-OF-BAND ANT 2

HDR4, HIGH POWER**LOW CHANNEL BANDEDGE ANT 5****LOW CHANNEL OUT-OF-BAND ANT 5****MID CHANNEL REFERENCE ANT 5****MID CHANNEL OUT-OF-BAND ANT 5****HIGH CHANNEL BANDEDGE ANT 5****HIGH CHANNEL OUT-OF-BAND ANT 5**

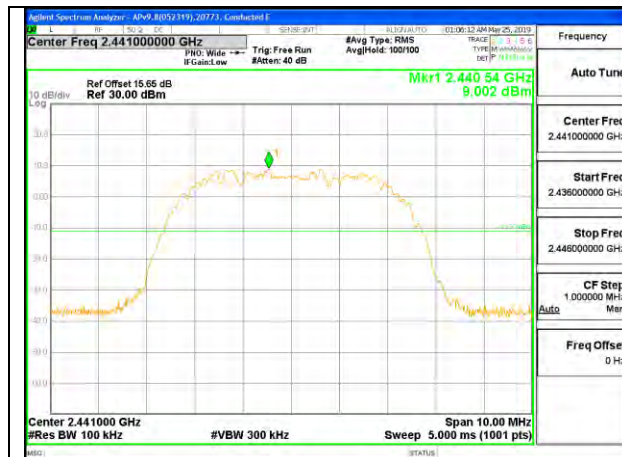
8.13.2. HIGH POWER HDR (HDR8)



LOW CHANNEL BANDEDGE ANT 2



LOW CHANNEL OUT-OF-BAND ANT 2



MID CHANNEL REFERENCE ANT 2



MID CHANNEL OUT-OF-BAND ANT 2



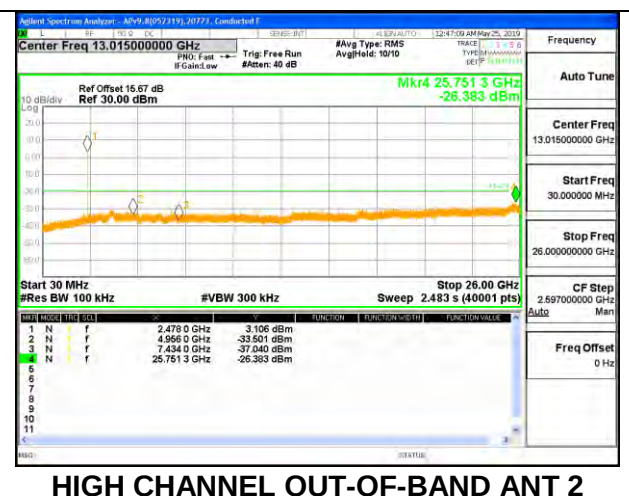
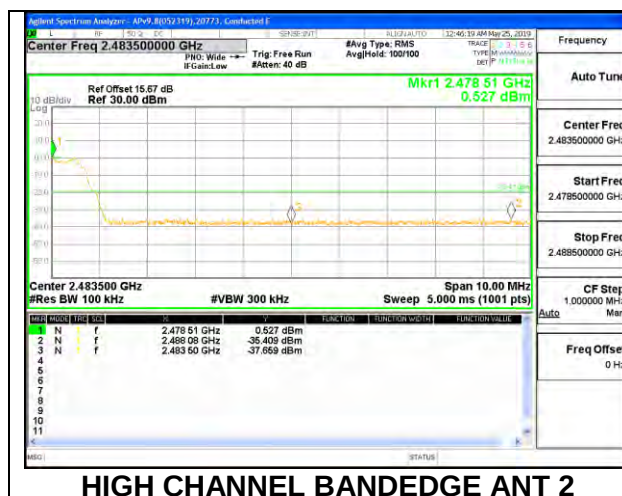
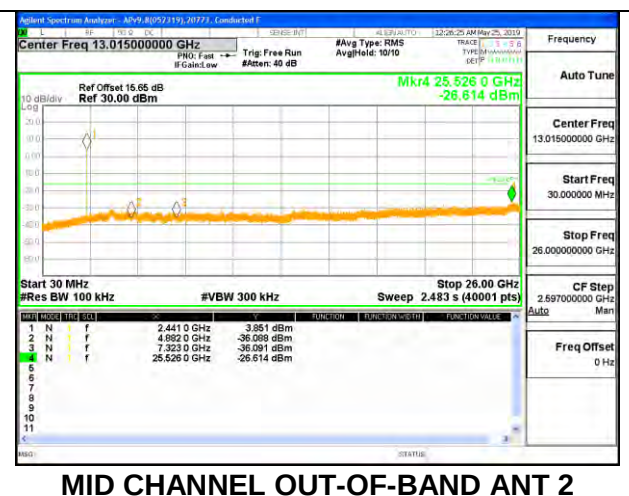
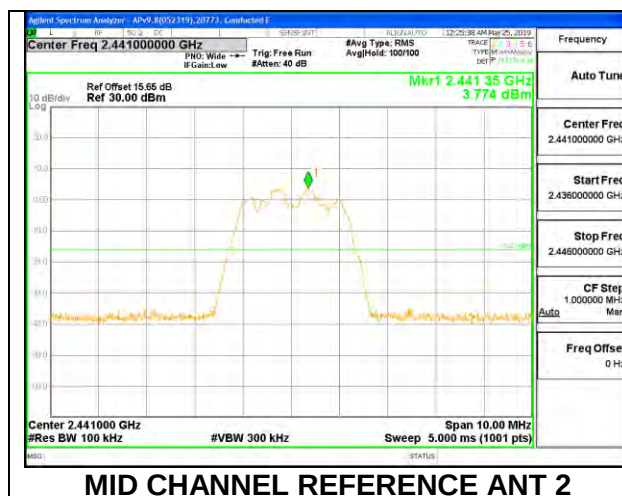
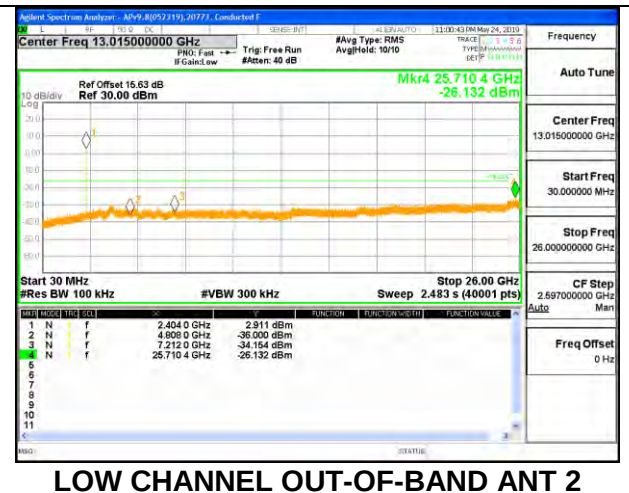
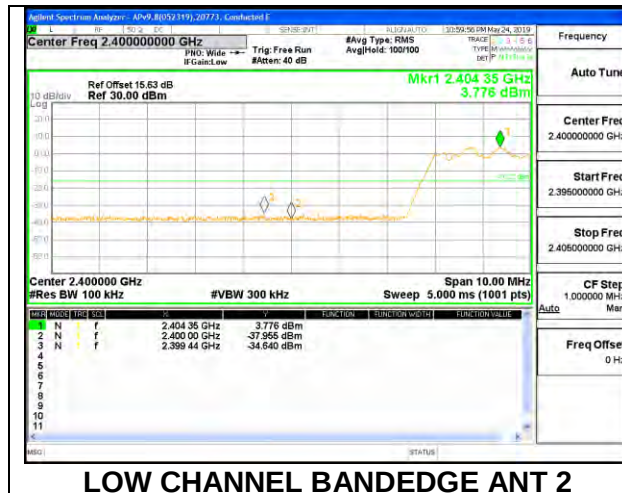
HIGH CHANNEL BANDEDGE ANT 2



HIGH CHANNEL OUT-OF-BAND ANT 2

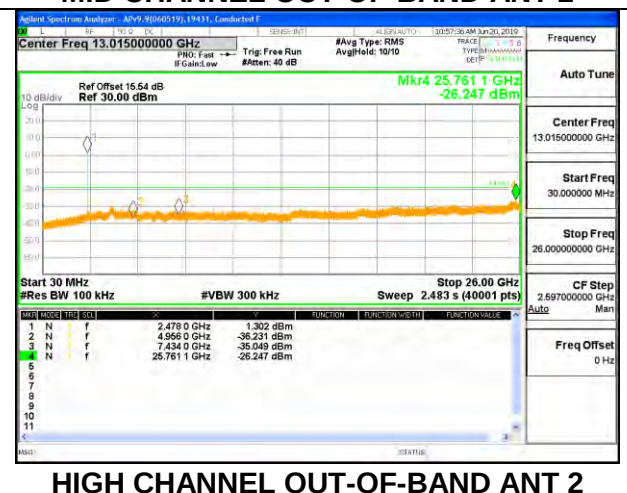
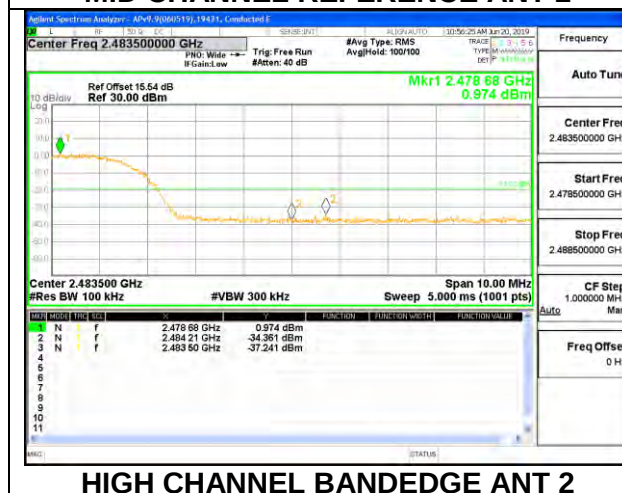
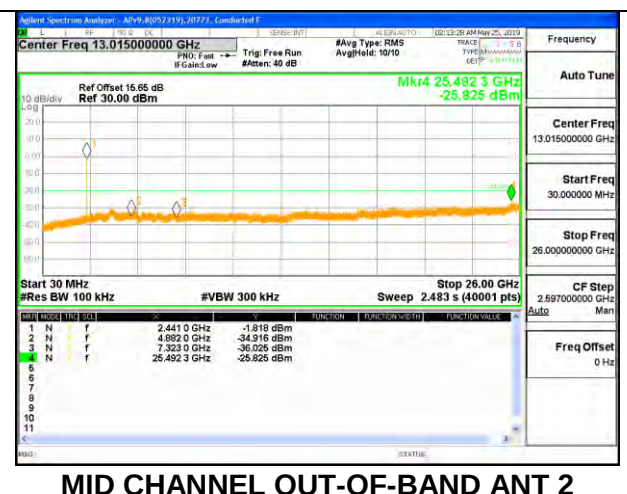
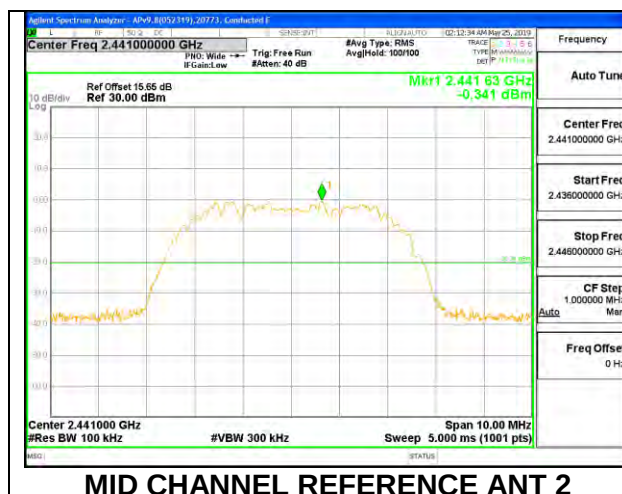
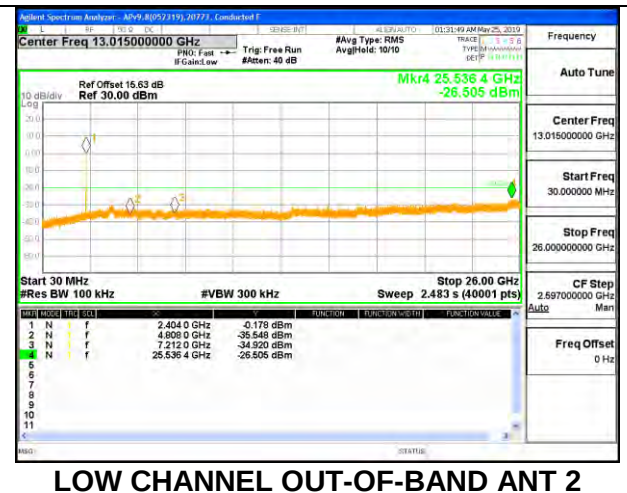
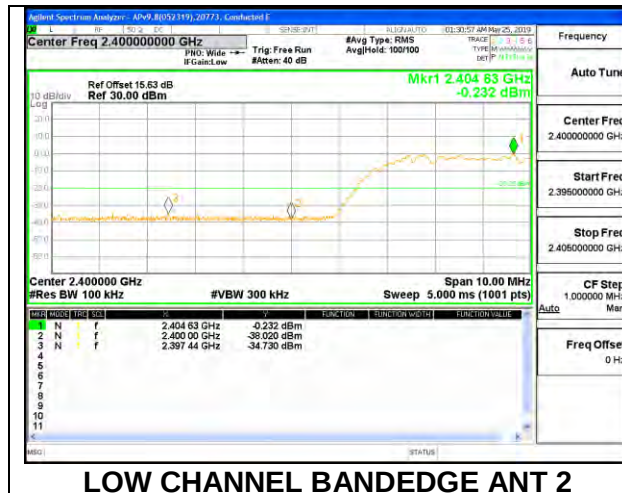
HDR8, HIGH POWER**LOW CHANNEL BANDEDGE ANT 5****LOW CHANNEL OUT-OF-BAND ANT 5****MID CHANNEL REFERENCE ANT 5****MID CHANNEL OUT-OF-BAND ANT 5****HIGH CHANNEL BANDEDGE ANT 5****HIGH CHANNEL OUT-OF-BAND ANT 5**

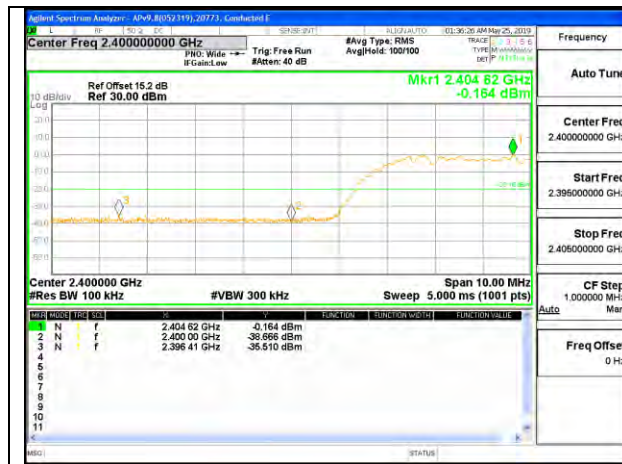
8.13.3. LOW POWER HDR (HDR4)



HDR4, LOW POWER**LOW CHANNEL BANDEDGE ANT 5****LOW CHANNEL OUT-OF-BAND ANT 5****MID CHANNEL REFERENCE ANT 5****MID CHANNEL OUT-OF-BAND ANT 5****HIGH CHANNEL BANDEDGE ANT 5****HIGH CHANNEL OUT-OF-BAND ANT 5**

8.13.4. LOW POWER HDR (HDR8)



HDR8, LOW POWER**LOW CHANNEL BANDEDGE ANT 5****LOW CHANNEL OUT-OF-BAND ANT 5****MID CHANNEL REFERENCE ANT 5****MID CHANNEL OUT-OF-BAND ANT 5****HIGH CHANNEL BANDEDGE ANT 5****HIGH CHANNEL OUT-OF-BAND ANT 5**

Note: Test procedures and setting on beamforming are same as HDR normal mode

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

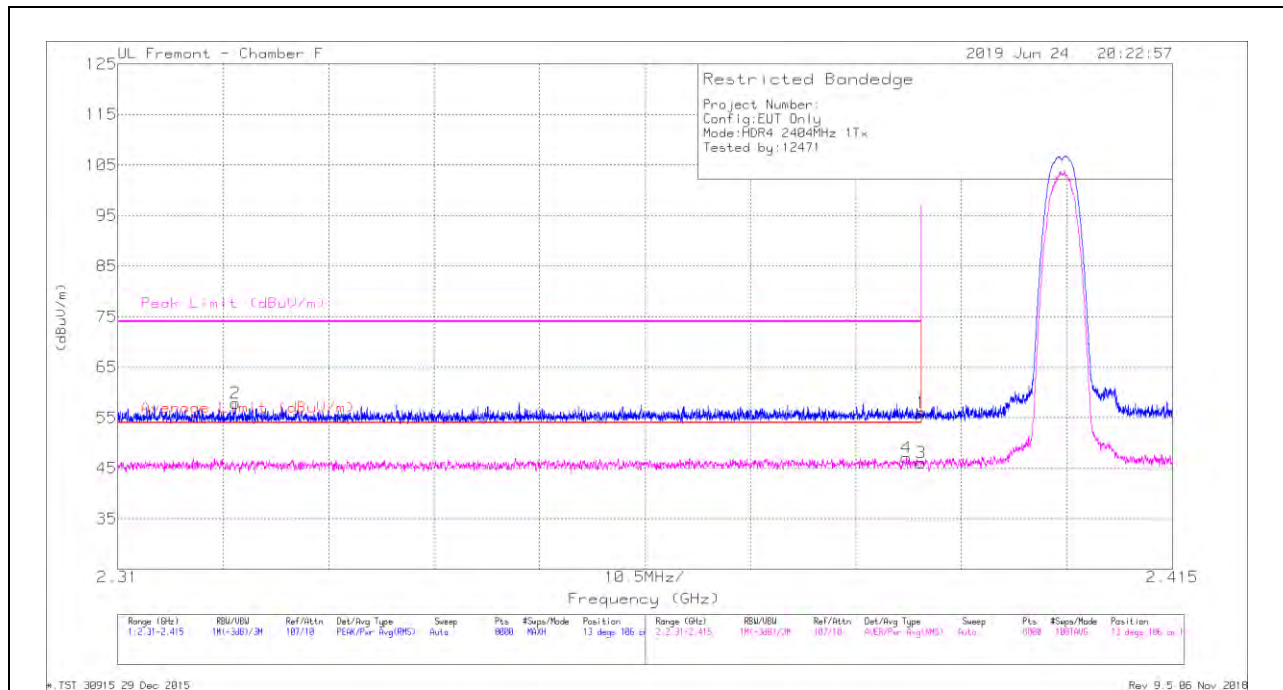
9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. HIGH POWER HDR (HDR4)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



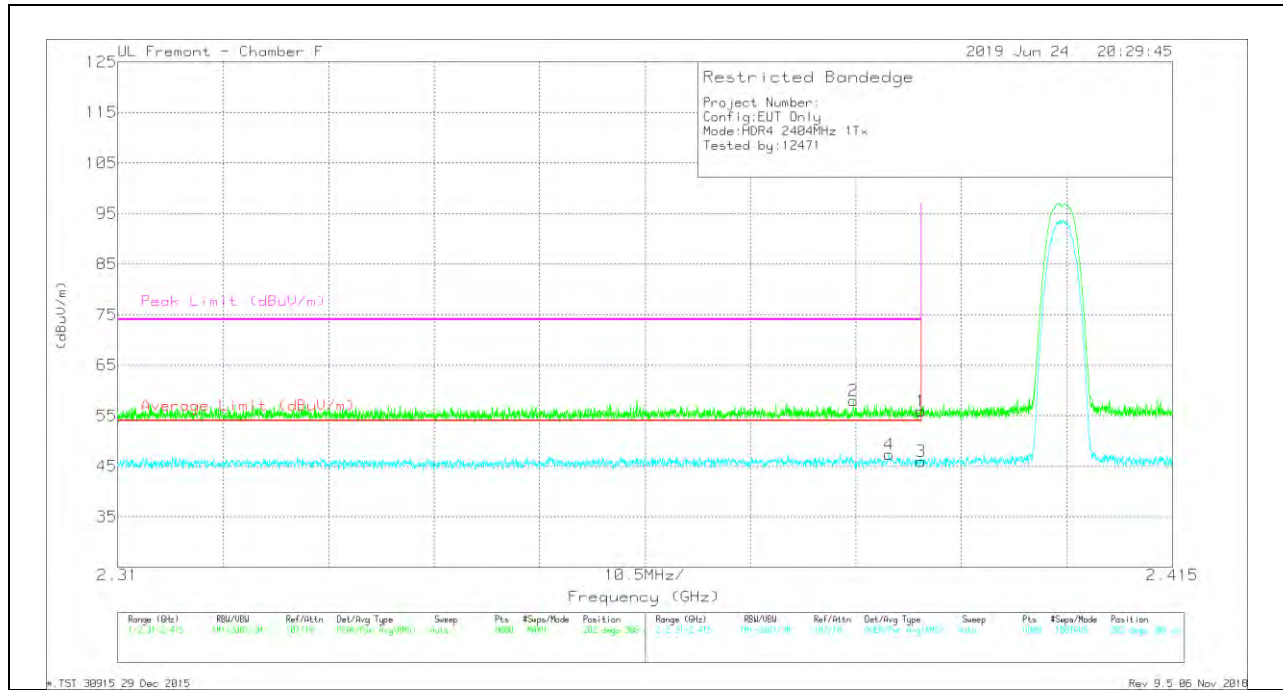
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Filtr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.54	Pk	32	-14.5	56.04	-	-	74	-17.96	13	106	H
2	* 2.322	40.79	Pk	31.7	-14.6	57.89	-	-	74	-16.11	13	106	H
3	* 2.39	28.6	RMS	32	-14.5	46.1	54	-7.9	-	-	13	106	H
4	* 2.389	29.62	RMS	32	-14.5	47.12	54	-6.88	-	-	13	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

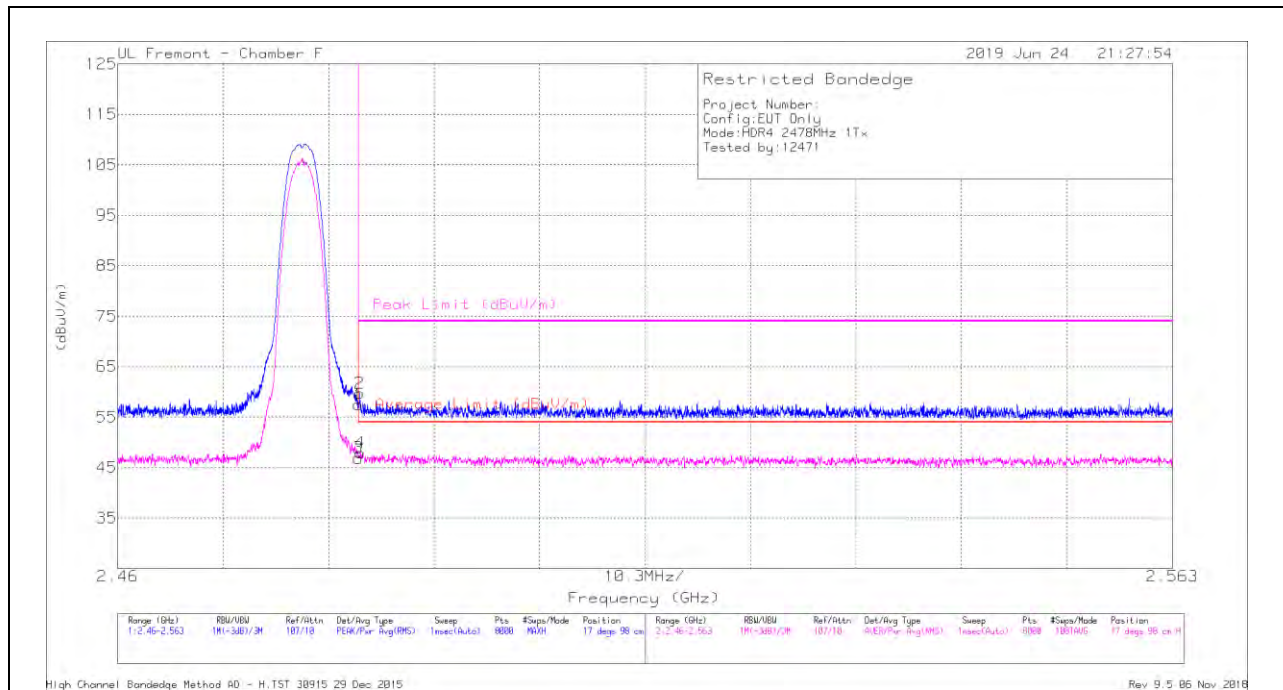


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Ampl/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.39	Pk	32	-14.5	55.89	-	-	74	-18.11	202	388	V
2	* 2.383	40.54	Pk	31.9	-14.5	57.94	-	-	74	-16.06	202	388	V
3	* 2.39	28.39	RMS	32	-14.5	45.89	54	-8.11	-	-	202	388	V
4	* 2.387	29.91	RMS	31.9	-14.5	47.31	54	-6.69	-	-	202	388	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

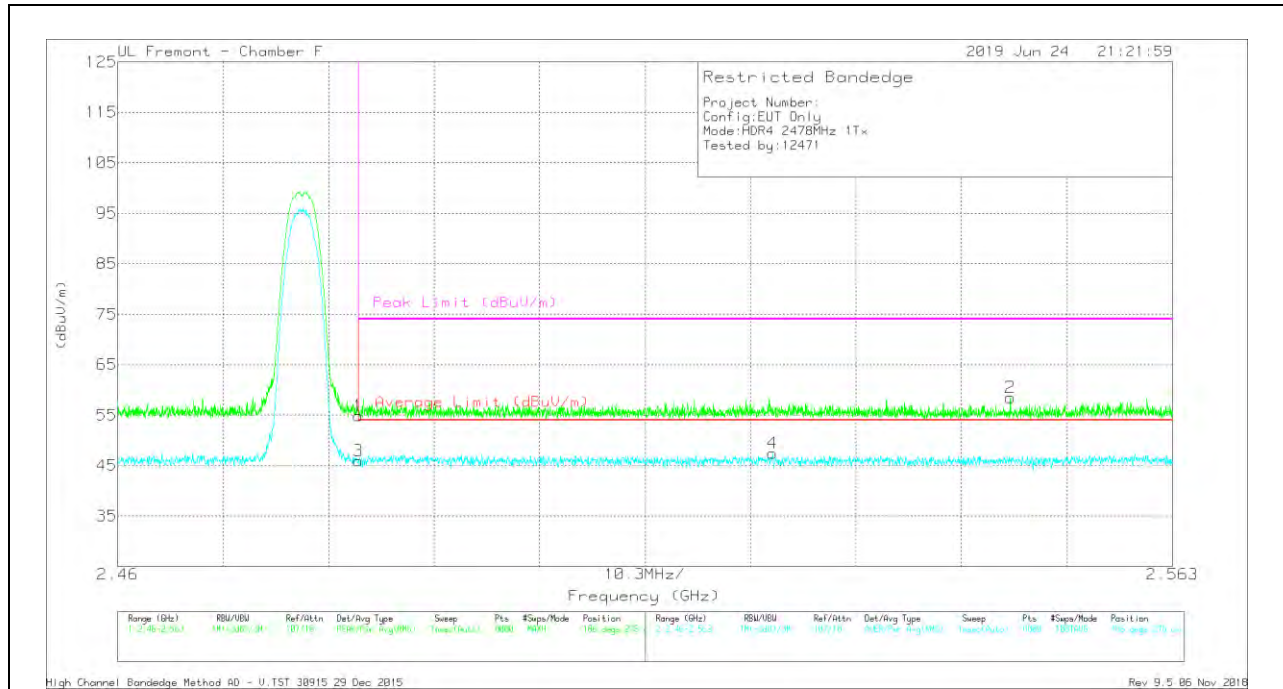
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.8	Pk	32.4	-14.7	57.5	-	-	74	-16.5	17	98	H
2	* 2.484	42.06	Pk	32.4	-14.7	59.76	-	-	74	-14.24	17	98	H
3	* 2.484	29.18	RMS	32.4	-14.7	46.88	54	-7.12	-	-	17	98	H
4	* 2.484	30.28	RMS	32.4	-14.7	47.98	54	-6.02	-	-	17	98	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

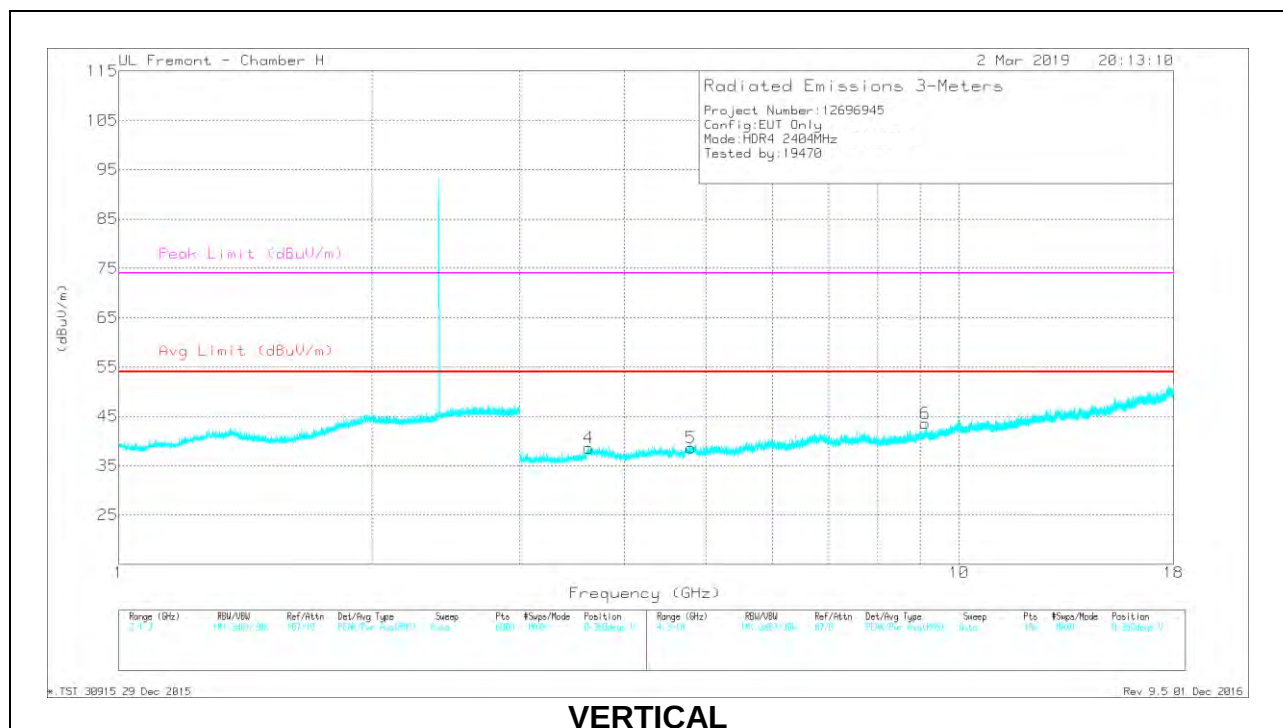
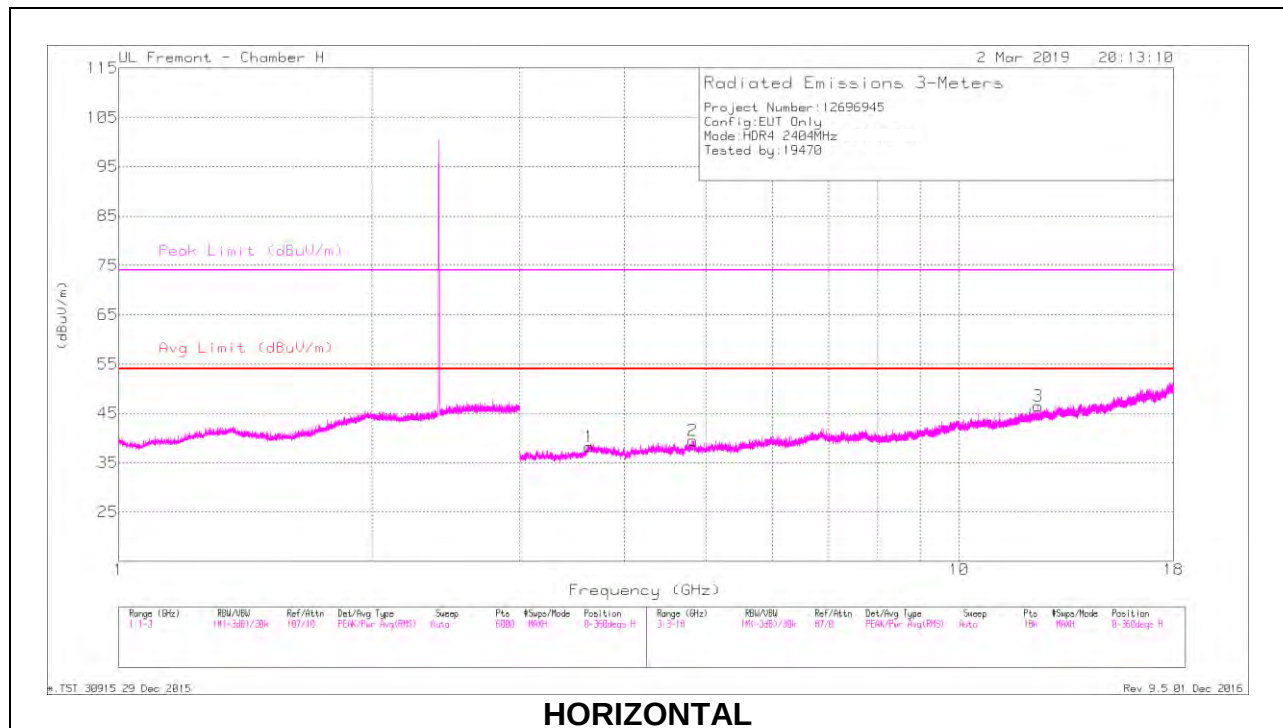


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.24	Pk	32.4	-14.7	54.94	-	-	74	-19.06	186	278	V
2	2.547	40.89	Pk	32.3	-14.7	58.49	-	-	74	-15.51	186	278	V
3	* 2.484	28.26	RMS	32.4	-14.7	45.96	54	-8.04	-	-	186	278	V
4	2.524	29.51	RMS	32.4	-14.5	47.41	54	-6.59	-	-	186	278	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

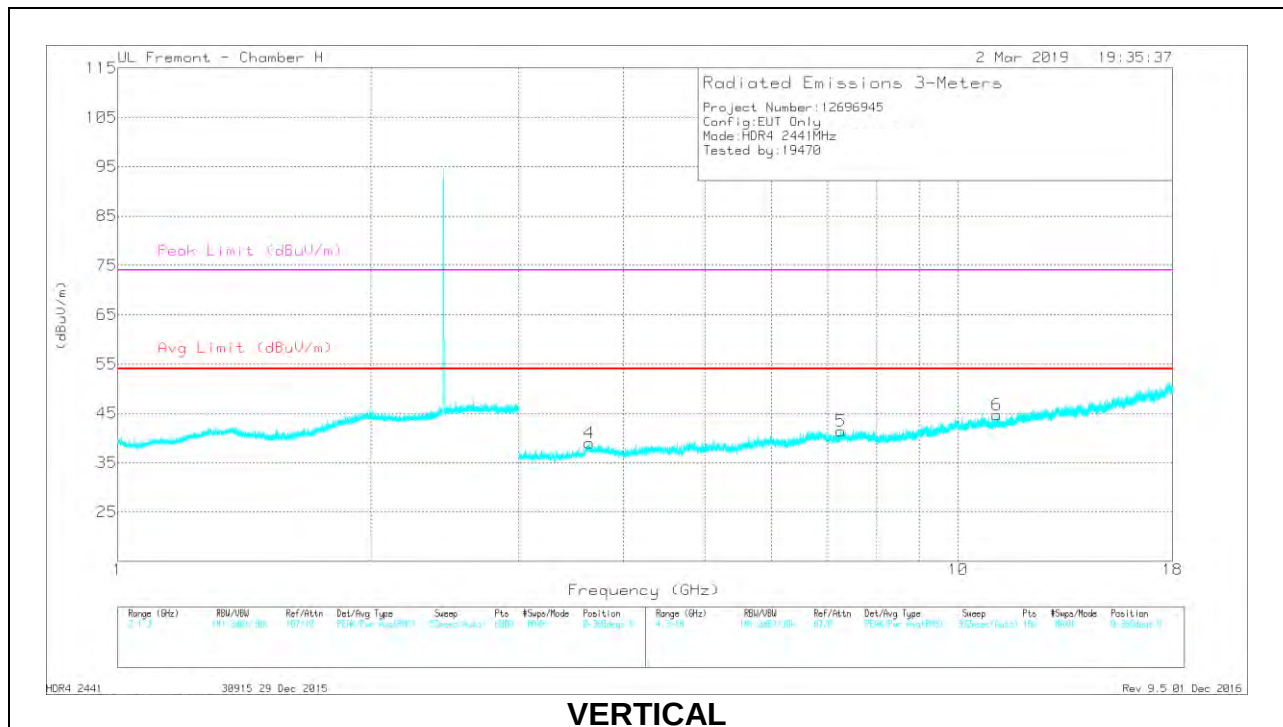
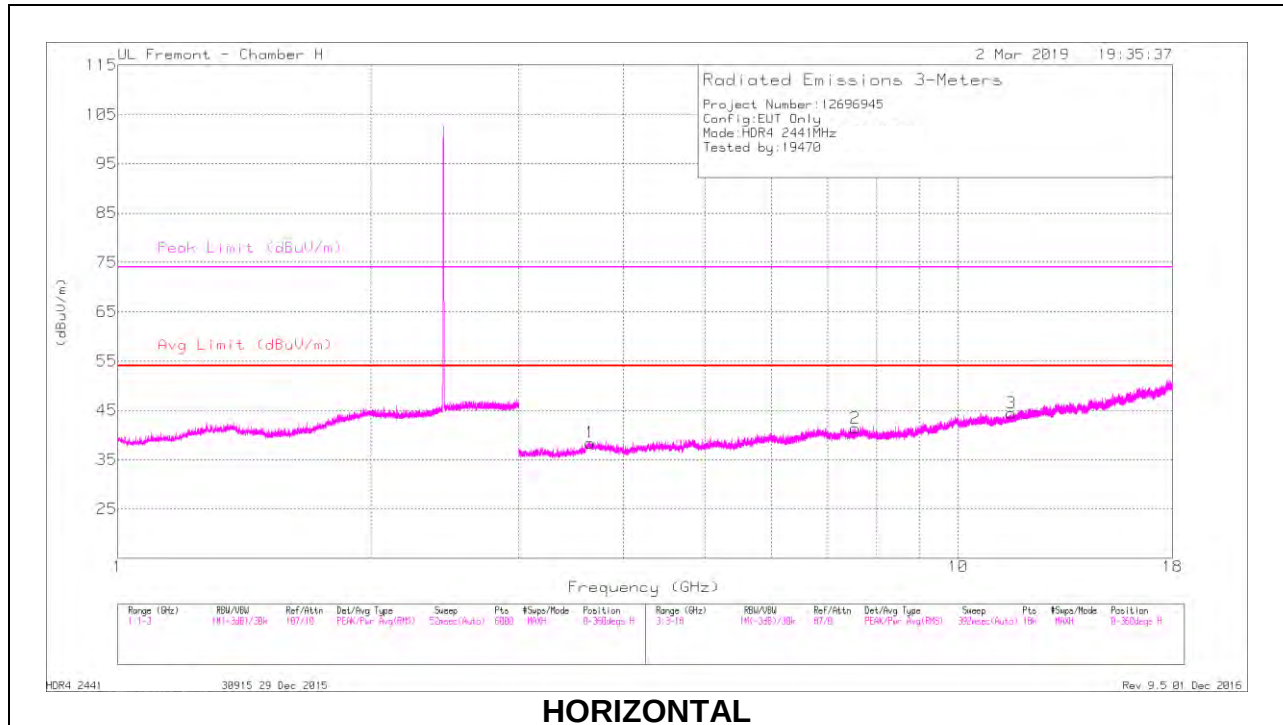
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T136 (dB/m)	Amp/Cb/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.63	41.82	PK2	33.1	-29.6	0	45.32	-	-	74	-28.68	156	140	H
	* 3.633	29.98	MAv1	33.1	-29.6	0	33.48	54	-20.52	-	-	156	140	H
2	* 4.824	42.43	PK2	34.1	-30.3	0	46.23	-	-	74	-27.77	174	150	H
	* 4.822	30.84	MAv1	34.1	-30.4	0	34.54	54	-19.46	-	-	174	150	H
3	* 12.428	36.16	PK2	39.2	-23.5	0	51.86	-	-	74	-22.14	183	127	H
	* 12.427	25.32	MAv1	39.2	-23.5	0	41.02	54	-12.98	-	-	183	127	H
4	* 3.626	41.34	PK2	33.1	-29.6	0	44.84	-	-	74	-29.16	162	168	V
	* 3.628	30.07	MAv1	33.1	-29.6	0	33.57	54	-20.43	-	-	162	168	V
5	* 4.794	42.37	PK2	34	-30.2	0	46.17	-	-	74	-27.83	152	198	V
	* 4.793	31.08	MAv1	34	-30.2	0	34.88	54	-19.12	-	-	152	198	V
6	* 9.113	36.46	PK2	36.3	-23.7	0	49.06	-	-	74	-24.94	174	207	V
	* 9.113	25.26	MAv1	36.3	-23.7	0	37.86	54	-16.14	-	-	174	207	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

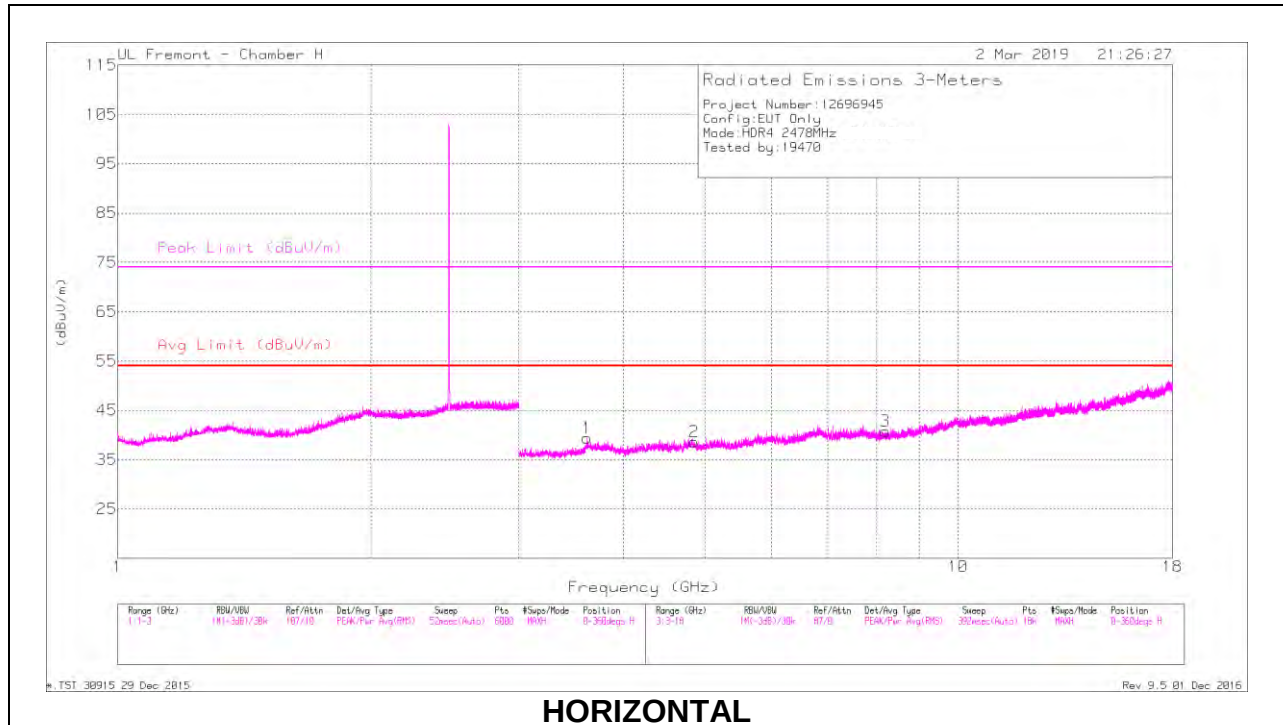
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T136 (dB/m)	Amp/Cb/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.652	40.93	PK2	33.1	-29.7	0	44.33	-	-	74	-29.67	244	184	H
	* 3.654	29.96	MAv1	33.1	-29.6	0	33.46	54	-20.54	-	-	244	184	H
2	* 7.543	38.14	PK2	36.5	-27.4	0	47.24	-	-	74	-26.76	229	208	H
	* 7.541	27.36	MAv1	36.5	-27.4	0	36.46	54	-17.54	-	-	229	208	H
3	* 11.584	36.41	PK2	38.5	-23.2	0	51.71	-	-	74	-22.29	165	202	H
	* 11.58	24.59	MAv1	38.5	-23.2	0	39.89	54	-14.11	-	-	165	202	H
4	* 3.642	40.94	PK2	33.1	-29.6	0	44.44	-	-	74	-29.56	174	223	V
	* 3.642	29.92	MAv1	33.1	-29.6	0	33.42	54	-20.58	-	-	174	223	V
5	* 7.257	39.22	PK2	36.4	-27.2	0	48.42	-	-	74	-25.58	216	192	V
	* 7.256	27.98	MAv1	36.4	-27.2	0	37.18	54	-16.82	-	-	216	192	V
6	* 11.133	35.81	PK2	37.8	-22.8	0	50.81	-	-	74	-23.19	235	212	V
	* 11.134	24.51	MAv1	37.9	-22.8	0	39.61	54	-14.39	-	-	235	212	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

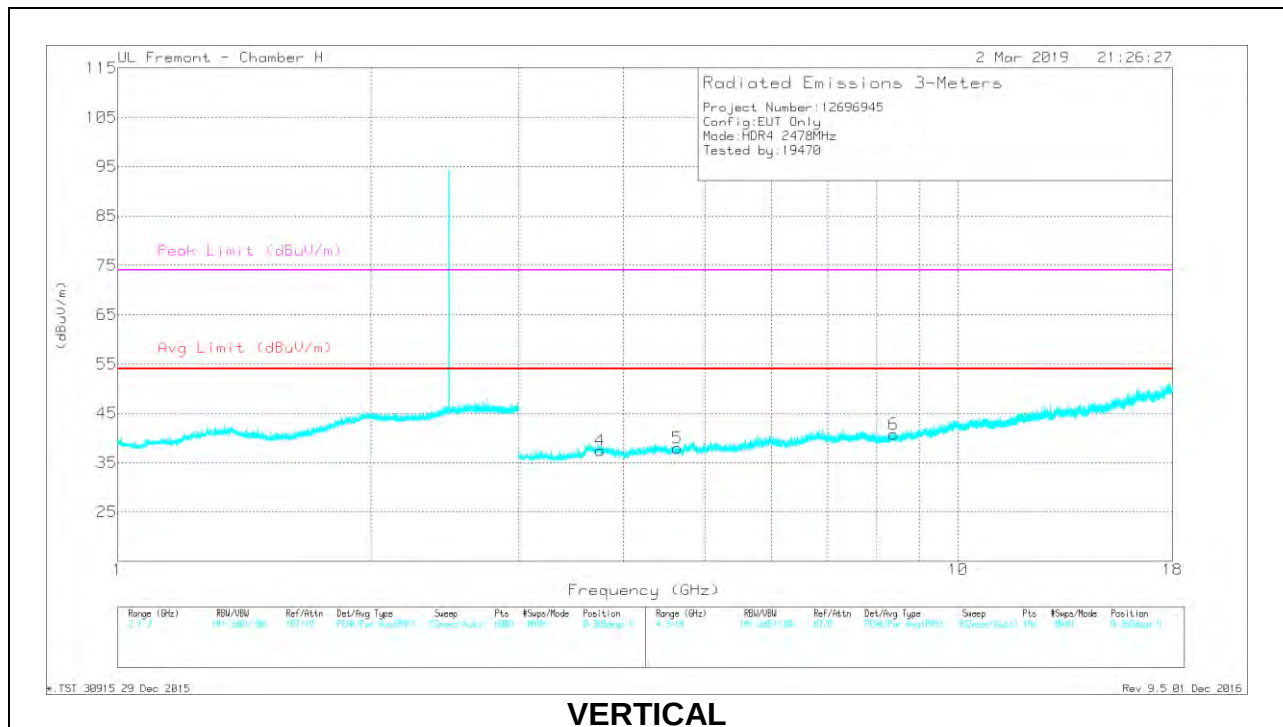
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

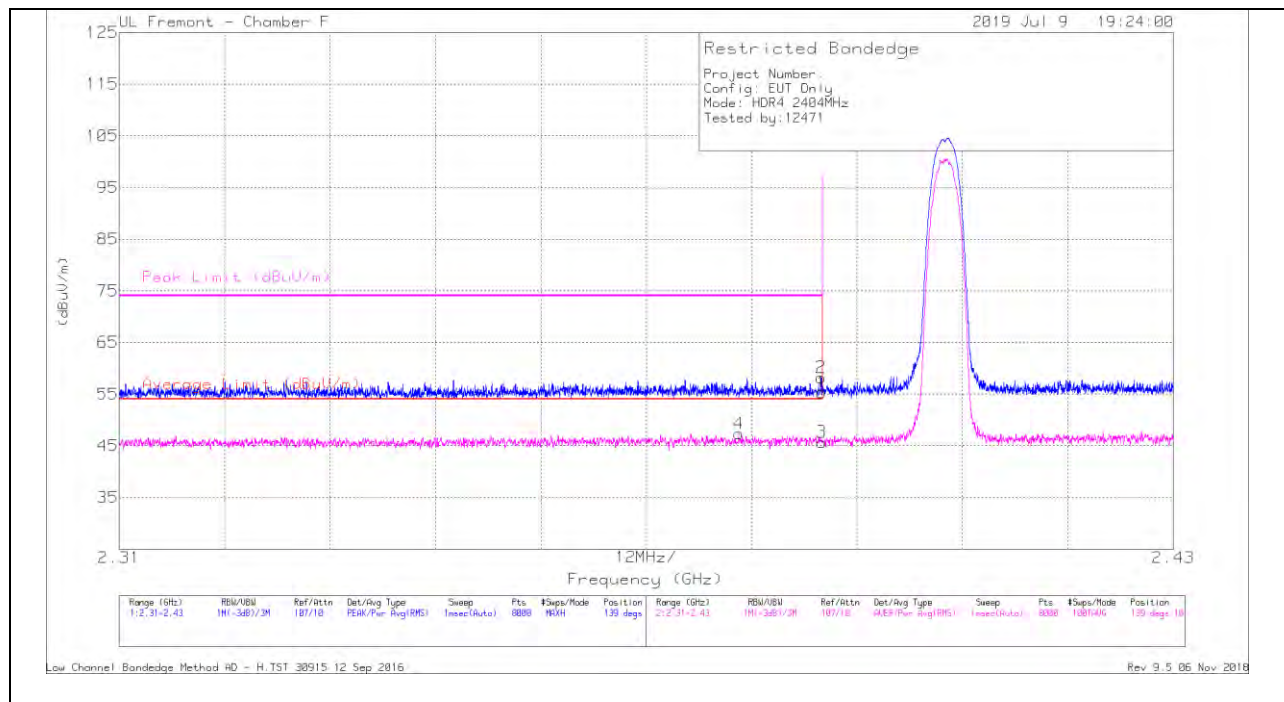
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T136 (dB/m)	Amp/Cb/Fitr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.617	41.32	PK2	33.1	-29.7	0	44.72	-	-	74	-29.28	184	102	H
	* 3.617	29.77	MAv1	33.1	-29.7	0	33.17	54	-20.83	-	-	184	102	H
2	* 4.856	41.35	PK2	34	-30.4	0	44.95	-	-	74	-29.05	162	130	H
	* 4.855	30.41	MAv1	34	-30.4	0	34.01	54	-19.99	-	-	162	130	H
3	* 8.198	38.04	PK2	35.8	-25.9	0	47.94	-	-	74	-26.06	147	185	H
	* 8.196	26.43	MAv1	35.8	-25.9	0	36.33	54	-17.67	-	-	147	185	H
4	* 3.752	41.92	PK2	33.3	-30.9	0	44.32	-	-	74	-29.68	201	179	V
	* 3.754	30.91	MAv1	33.3	-30.9	0	33.31	54	-20.69	-	-	201	179	V
5	* 4.632	41.07	PK2	34.1	-30	0	45.17	-	-	74	-28.83	191	157	V
	* 4.634	30.3	MAv1	34.1	-30	0	34.4	54	-19.6	-	-	191	157	V
6	* 8.384	37.38	PK2	35.9	-26	0	47.28	-	-	74	-26.72	177	135	V
	* 8.382	26.67	MAv1	35.9	-25.9	0	36.67	54	-17.33	-	-	177	135	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5**BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

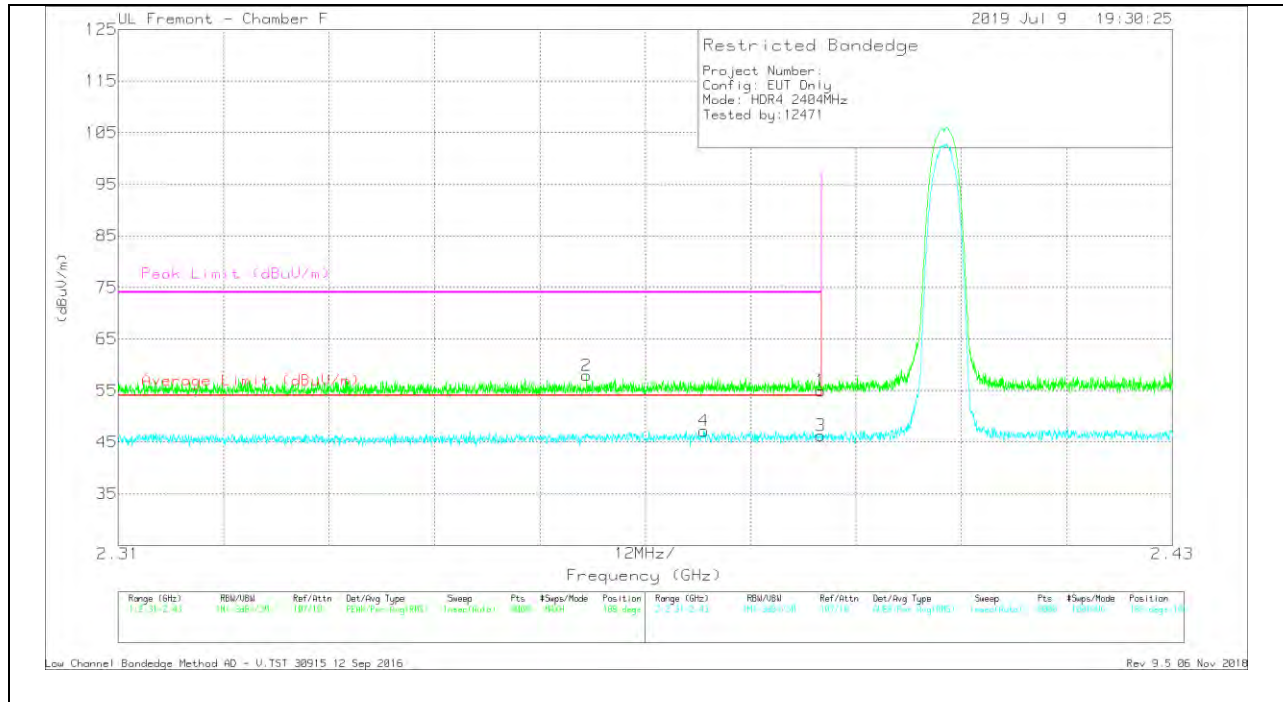
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.84	Pk	32	-14.5	55.34	-	-	74	-18.66	139	103	H
2	* 2.39	40.73	Pk	32	-14.5	58.23	-	-	74	-15.77	139	103	H
3	* 2.39	28.2	RMS	32	-14.5	45.7	54	-8.3	-	-	139	103	H
4	* 2.381	29.93	RMS	31.9	-14.5	47.33	54	-6.67	-	-	139	103	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

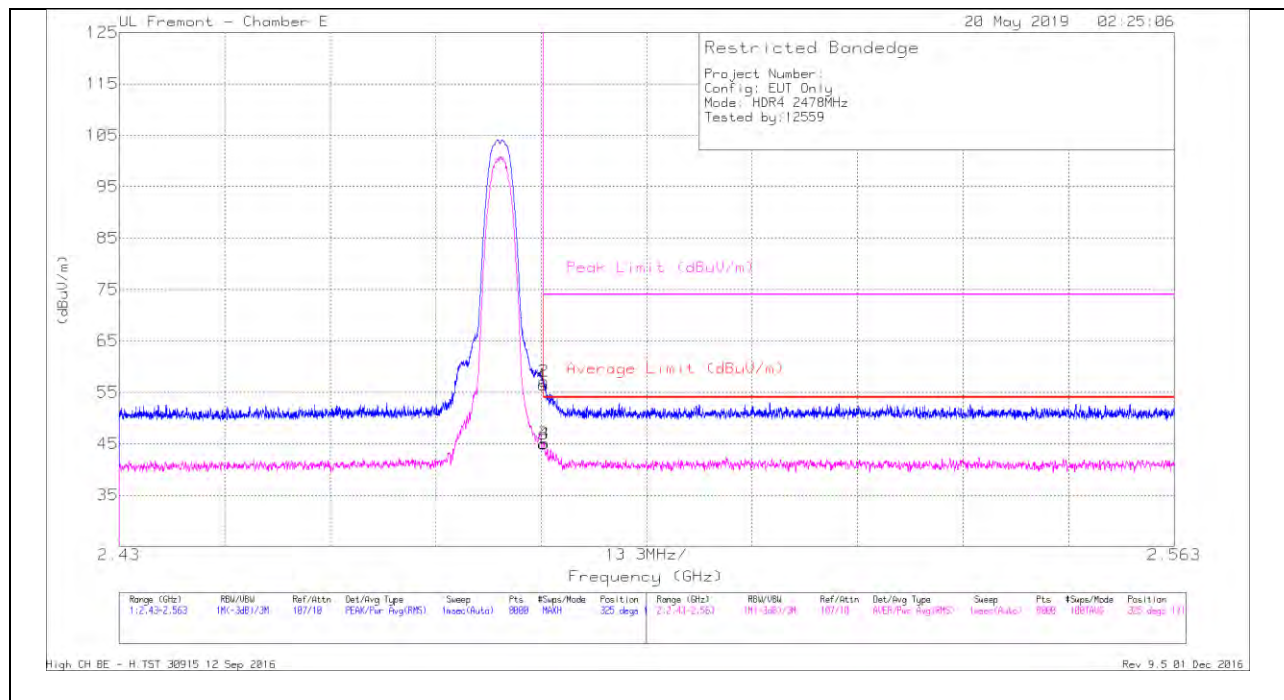


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.42	Pk	32	-14.5	54.92	-	-	74	-19.08	188	100	V
2	* 2.363	40.53	Pk	31.8	-14.4	57.93	-	-	74	-16.07	188	100	V
3	* 2.39	28.77	RMS	32	-14.5	46.27	54	-7.73	-	-	188	100	V
4	* 2.377	29.69	RMS	31.9	-14.4	47.19	54	-6.81	-	-	188	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

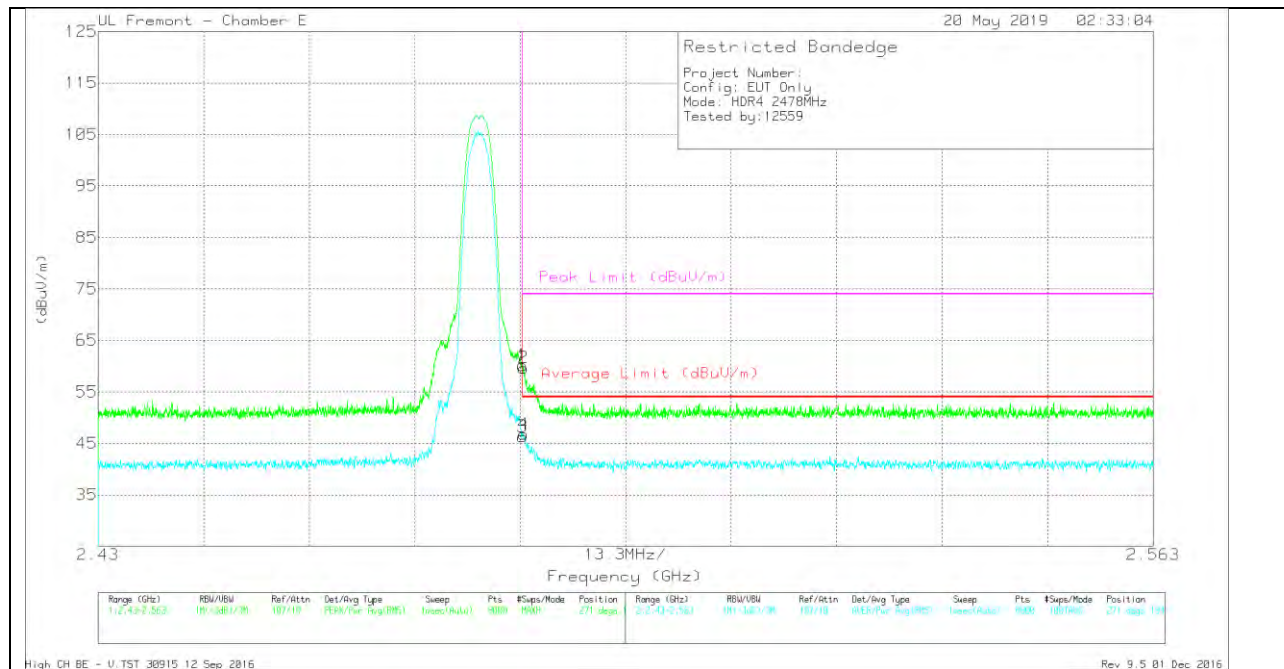
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.91	Pk	32.8	-26.3	56.41	-	-	74	-17.59	325	171	H
2	* 2.484	50.66	Pk	32.8	-26.3	57.16	-	-	74	-16.84	325	171	H
3	* 2.484	38.48	RMS	32.8	-26.3	44.98	54	-9.02	-	-	325	171	H
4	* 2.484	38.58	RMS	32.8	-26.3	45.08	54	-8.92	-	-	325	171	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

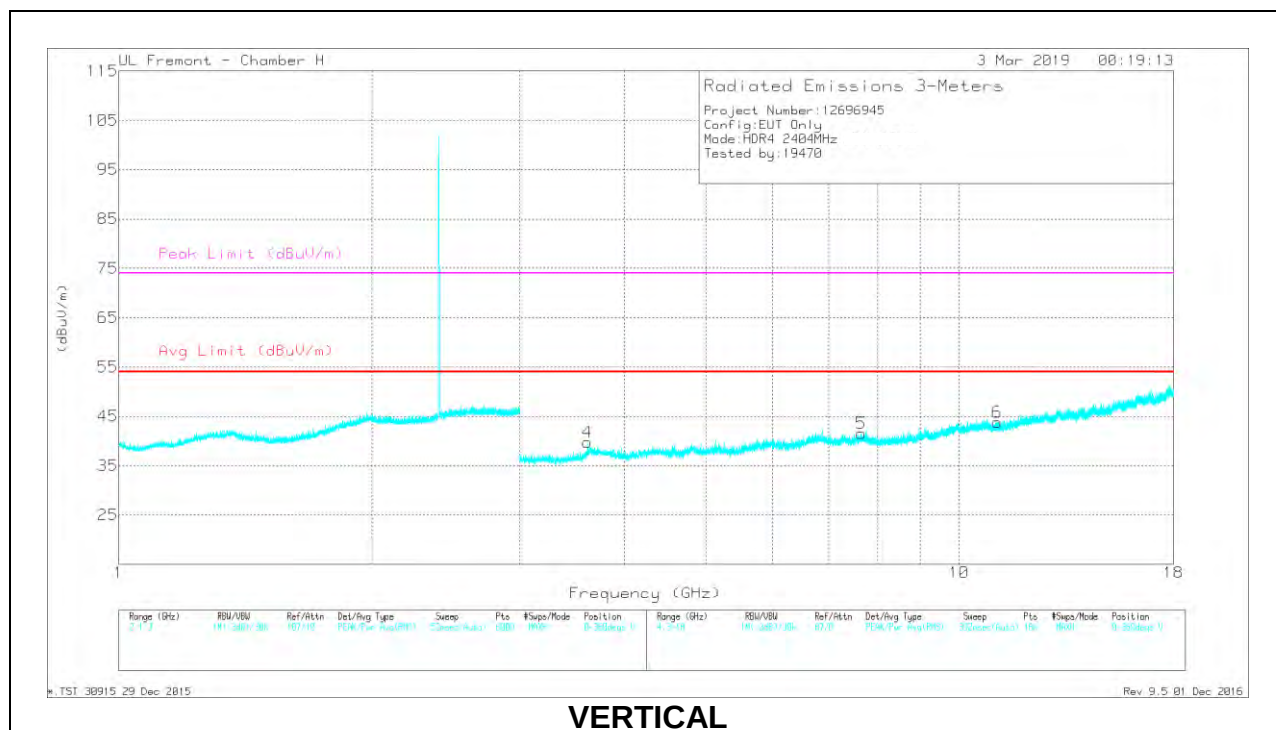
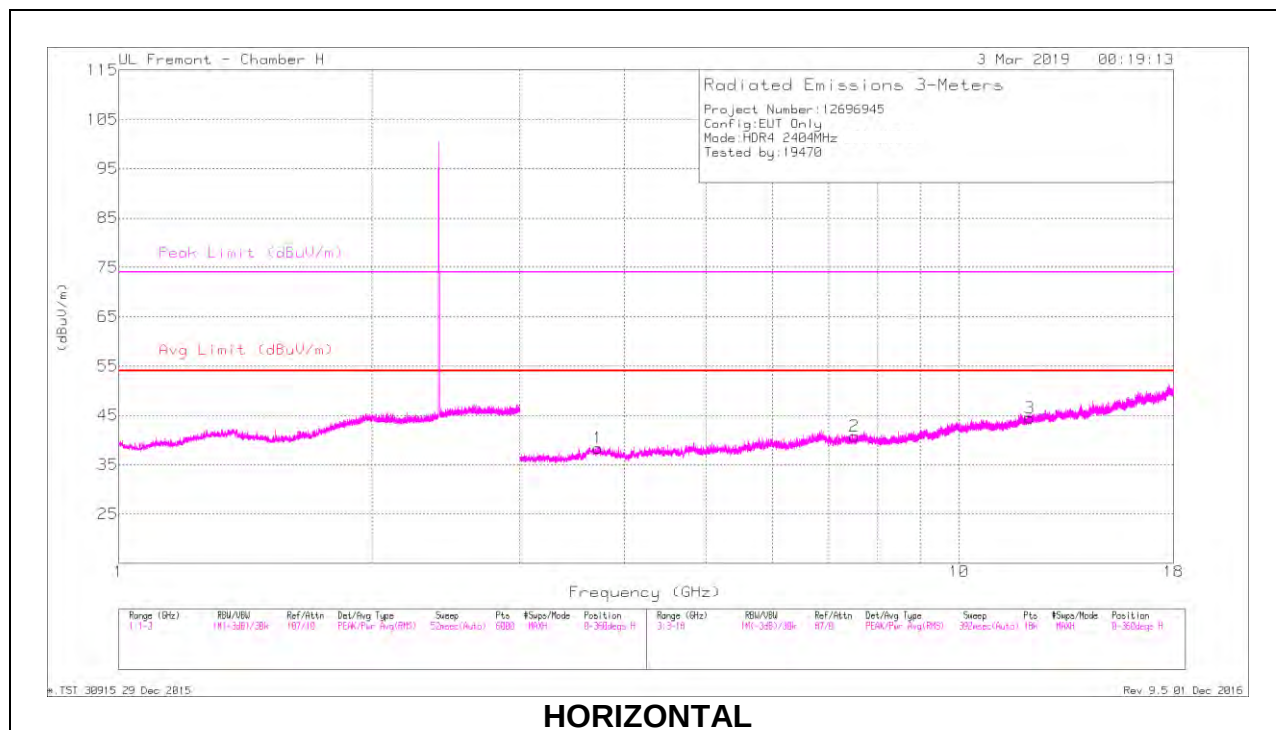


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Chn/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	53.67	Pk	32.8	-26.3	60.17	-	-	74	-13.83	271	194	V
2	* 2.484	53.17	Pk	32.8	-26.3	59.67	-	-	74	-14.33	271	194	V
3	* 2.484	39.83	RMS	32.8	-26.3	46.33	54	-7.67	-	-	271	194	V
4	* 2.484	40.29	RMS	32.8	-26.3	46.79	54	-7.21	-	-	271	194	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

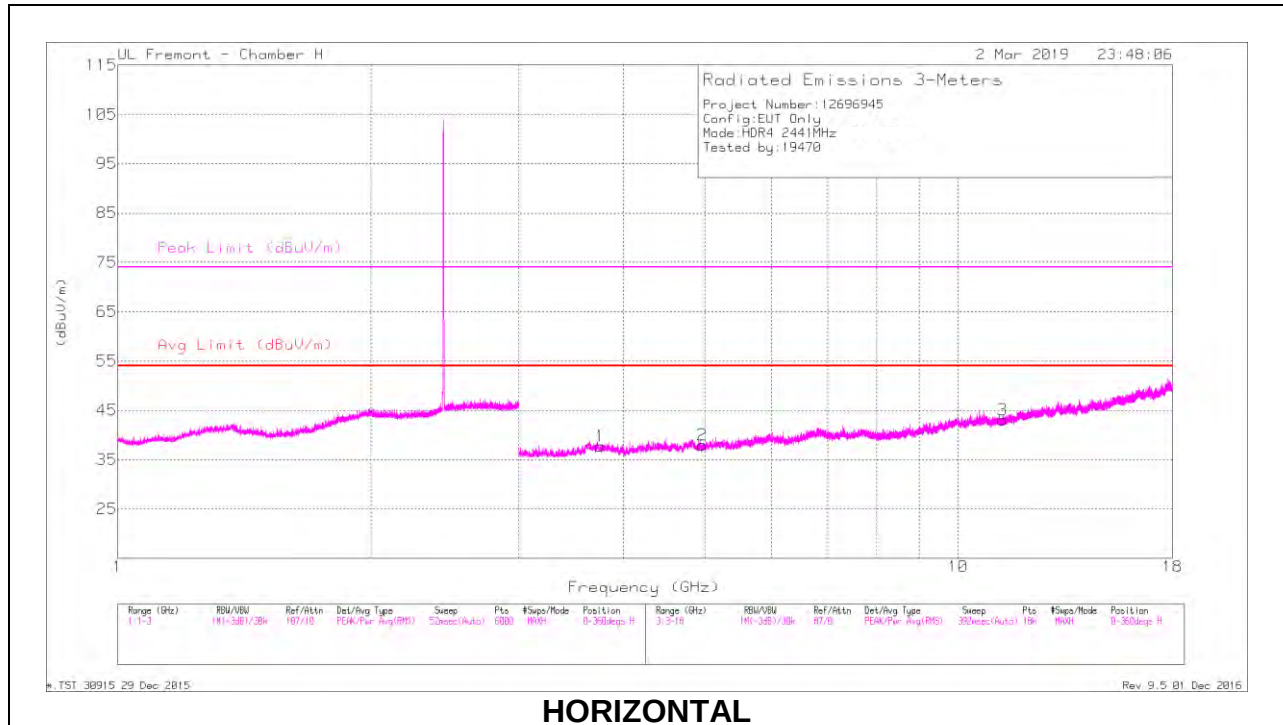
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T136 (dB/m)	Amp/Cb/Filt/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.72	41.81	PK2	33.2	-30.7	0	44.31	-	-	74	-29.69	268	235	H
	* 3.718	30.79	MAv1	33.2	-30.7	0	33.29	54	-20.71	-	-	268	235	H
2	* 7.509	39	PK2	36.5	-27.5	0	48	-	-	74	-26	283	260	H
	* 7.506	27.65	MAv1	36.5	-27.5	0	36.65	54	-17.35	-	-	283	260	H
3	* 12.145	35.87	PK2	39.1	-23	0	51.97	-	-	74	-22.03	256	285	H
	* 12.142	24.72	MAv1	39	-23.1	0	40.62	54	-13.38	-	-	256	285	H
4	* 3.615	40.86	PK2	33.1	-29.7	0	44.26	-	-	74	-29.74	304	234	V
	* 3.612	29.79	MAv1	33.1	-29.7	0	33.19	54	-20.81	-	-	304	234	V
5	* 7.658	38.84	PK2	36.6	-27	0	48.44	-	-	74	-25.56	333	187	V
	* 7.656	27.49	MAv1	36.6	-27	0	37.09	54	-16.91	-	-	333	187	V
6	* 11.11	36.01	PK2	37.8	-23.1	0	50.71	-	-	74	-23.29	291	207	V
	* 11.109	24.78	MAv1	37.8	-23.1	0	39.48	54	-14.52	-	-	291	207	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

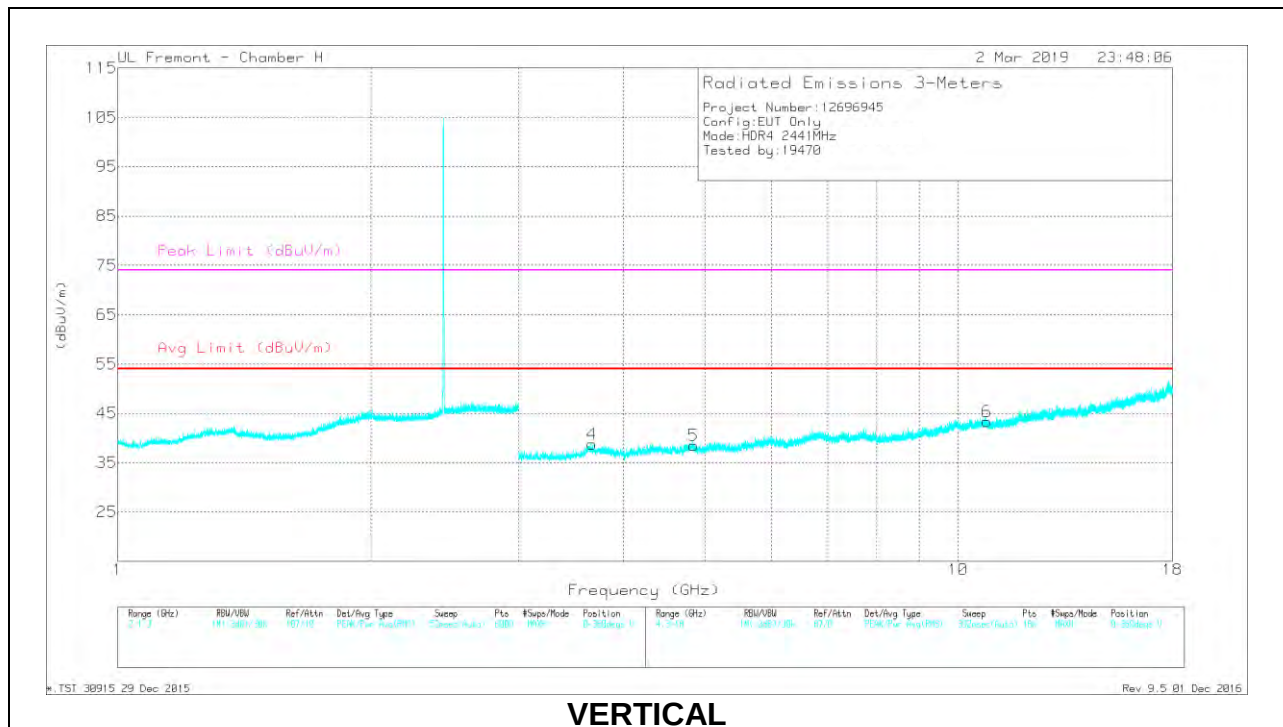
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

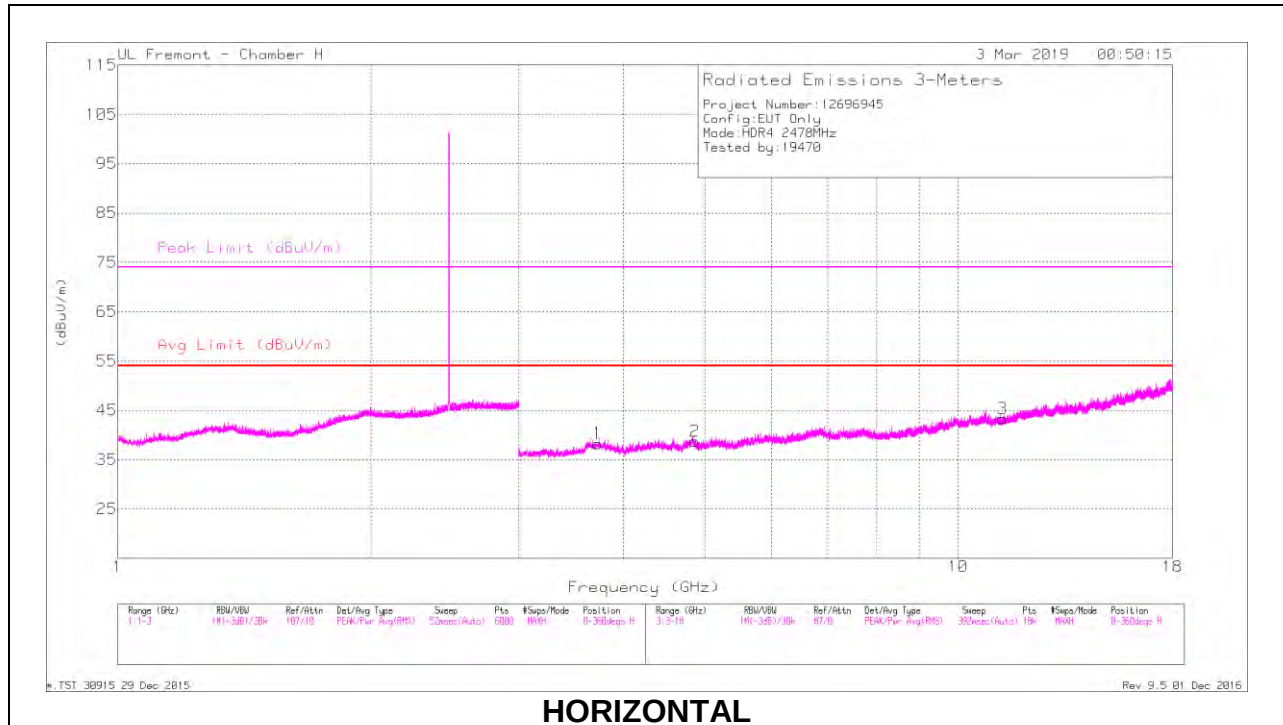
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.75	42.71	PK2	33.3	-30.9	0	45.11	-	-	74	-28.89	168	214	H
	* 3.751	31.18	MAv1	33.3	-30.9	0	33.58	54	-20.42	-	-	168	214	H
2	* 4.964	40.67	PK2	33.9	-29.6	0	44.97	-	-	74	-29.03	146	203	H
	* 4.962	29.58	MAv1	34	-29.6	0	33.98	54	-20.02	-	-	146	203	H
3	* 11.297	36.02	PK2	38	-23.5	0	50.52	-	-	74	-23.48	257	178	H
	* 11.296	24.86	MAv1	38	-23.5	0	39.36	54	-14.64	-	-	257	178	H
4	* 3.666	40.94	PK2	33.1	-29.8	0	44.24	-	-	74	-29.76	246	224	V
	* 3.669	30.21	MAv1	33.1	-30	0	33.31	54	-20.69	-	-	246	224	V
5	* 4.843	41.57	PK2	34.1	-30.4	0	45.27	-	-	74	-28.73	211	236	V
	* 4.844	30.45	MAv1	34	-30.4	0	34.05	54	-19.95	-	-	211	236	V
6	* 10.821	35.98	PK2	37.7	-22.8	0	50.88	-	-	74	-23.12	187	250	V
	* 10.823	24.39	MAv1	37.7	-22.7	0	39.39	54	-14.61	-	-	187	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

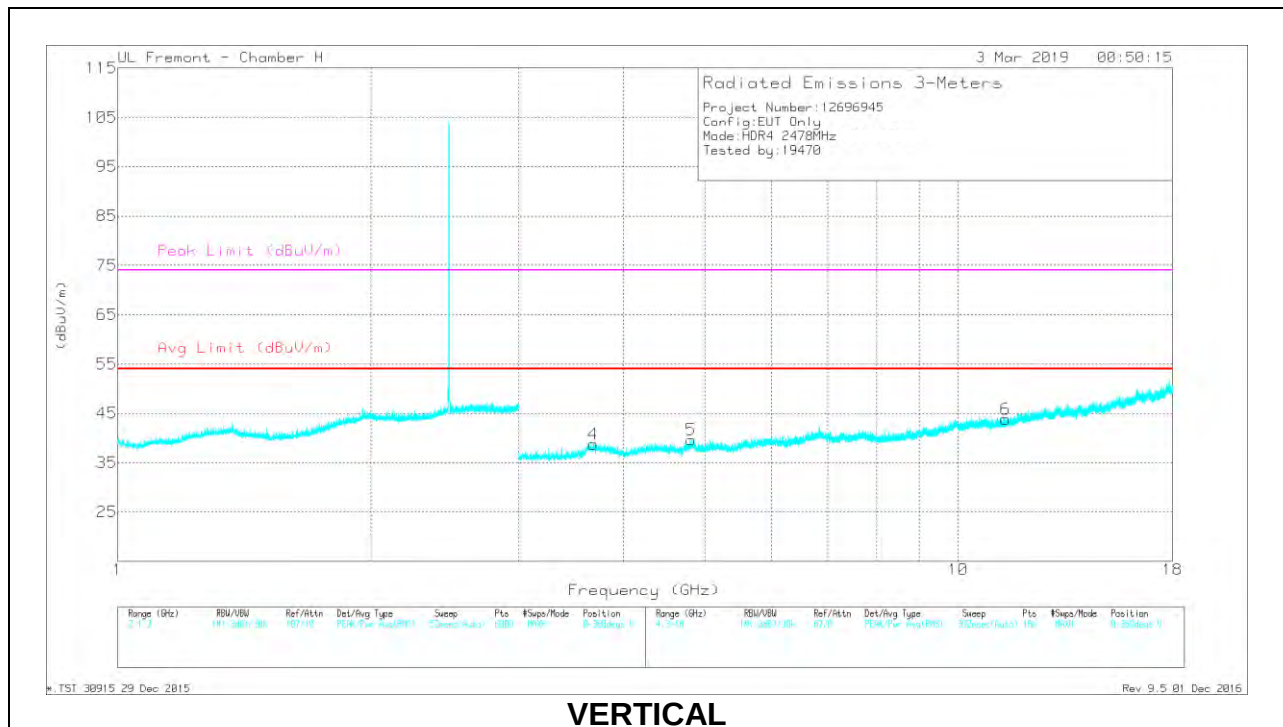
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.726	42.12	PK2	33.2	-30.7	0	44.62	-	-	74	-29.38	263	173	H
	* 3.727	30.99	MAv1	33.2	-30.7	0	33.49	54	-20.51	-	-	263	173	H
2	* 4.863	41.12	PK2	34	-30.4	0	44.72	-	-	74	-29.28	238	153	H
	* 4.863	30.16	MAv1	34	-30.4	0	33.76	54	-20.24	-	-	238	153	H
3	* 11.305	36.4	PK2	38	-23.6	0	50.8	-	-	74	-23.2	277	190	H
	* 11.305	24.85	MAv1	38	-23.6	0	39.25	54	-14.75	-	-	277	190	H
4	* 3.683	41.38	PK2	33.1	-30.2	0	44.28	-	-	74	-29.72	249	216	V
	* 3.683	30.27	MAv1	33.1	-30.2	0	33.17	54	-20.83	-	-	249	216	V
5	* 4.813	42.08	PK2	34	-30.3	0	45.78	-	-	74	-28.22	263	226	V
	* 4.814	30.56	MAv1	34.1	-30.3	0	34.36	54	-19.64	-	-	263	226	V
6	* 11.398	35.6	PK2	38.2	-23.5	0	50.3	-	-	74	-23.7	294	214	V
	* 11.398	24.82	MAv1	38.2	-23.5	0	39.52	54	-14.48	-	-	294	214	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

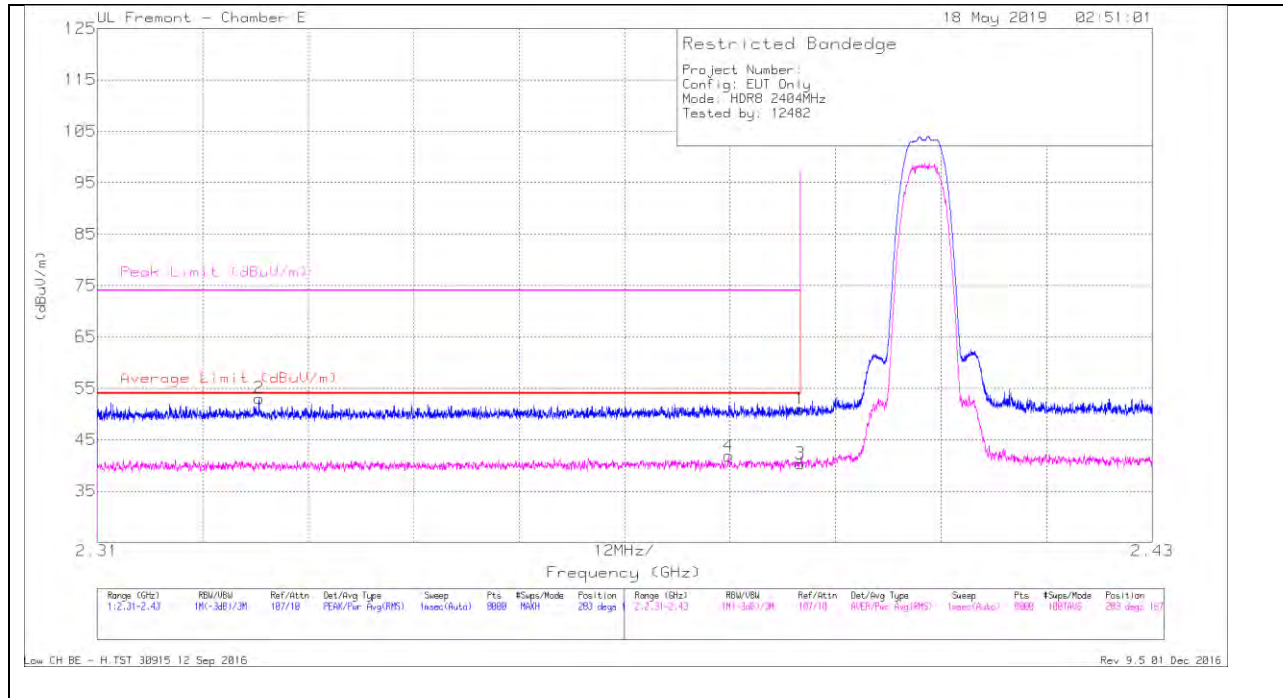
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.2. HIGH POWER HDR (HDR8)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cb/Flt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.89	Pk	32.3	-26.2	50.99	-	-	74	-23.01	283	167	H
2	* 2.328	47.37	Pk	32	-26.3	53.07	-	-	74	-20.93	283	167	H
3	* 2.39	34.26	RMS	32.3	-26.2	40.36	54	-13.64	-	-	283	167	H
4	* 2.382	35.85	RMS	32.3	-26.3	41.85	54	-12.15	-	-	283	167	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

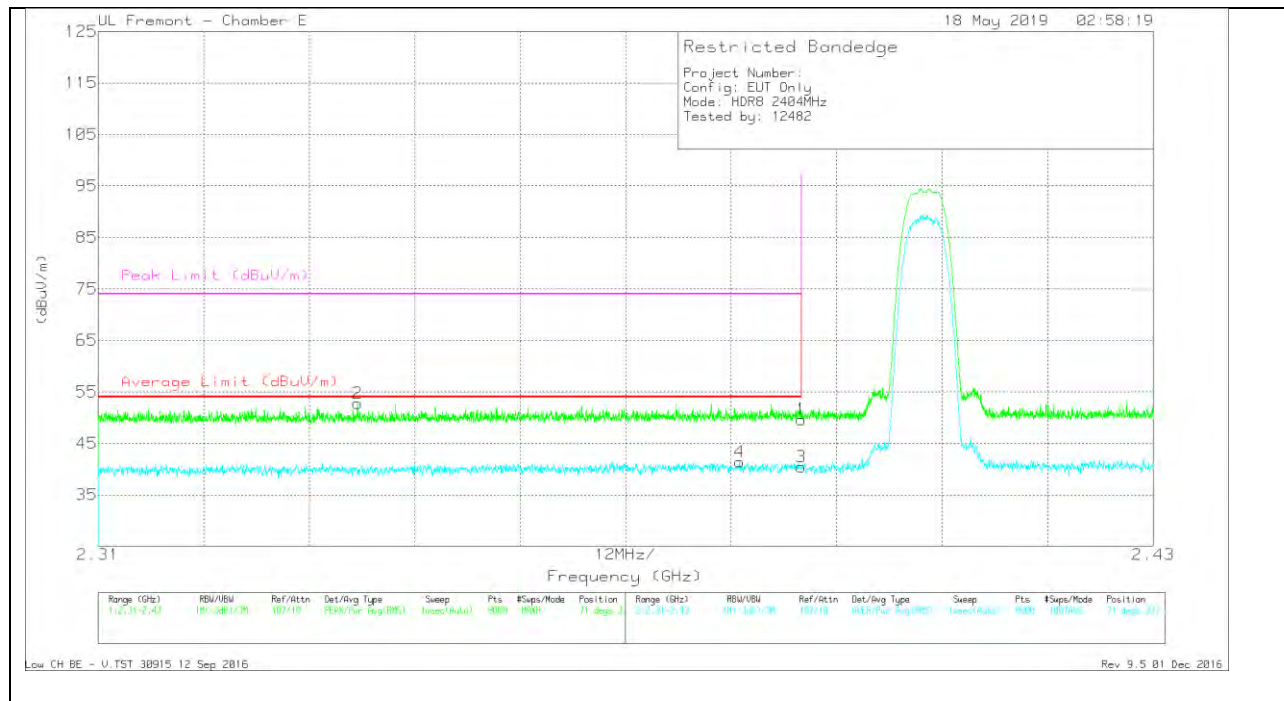
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.55	Pk	32.3	-26.2	49.65	-	-	74	-24.35	71	337	V
2	* 2.34	47.06	Pk	31.9	-26.2	52.76	-	-	74	-21.24	71	337	V
3	* 2.39	34.31	RMS	32.3	-26.2	40.41	54	-13.59	-	-	71	337	V
4	* 2.383	35.42	RMS	32.3	-26.3	41.42	54	-12.58	-	-	71	337	V

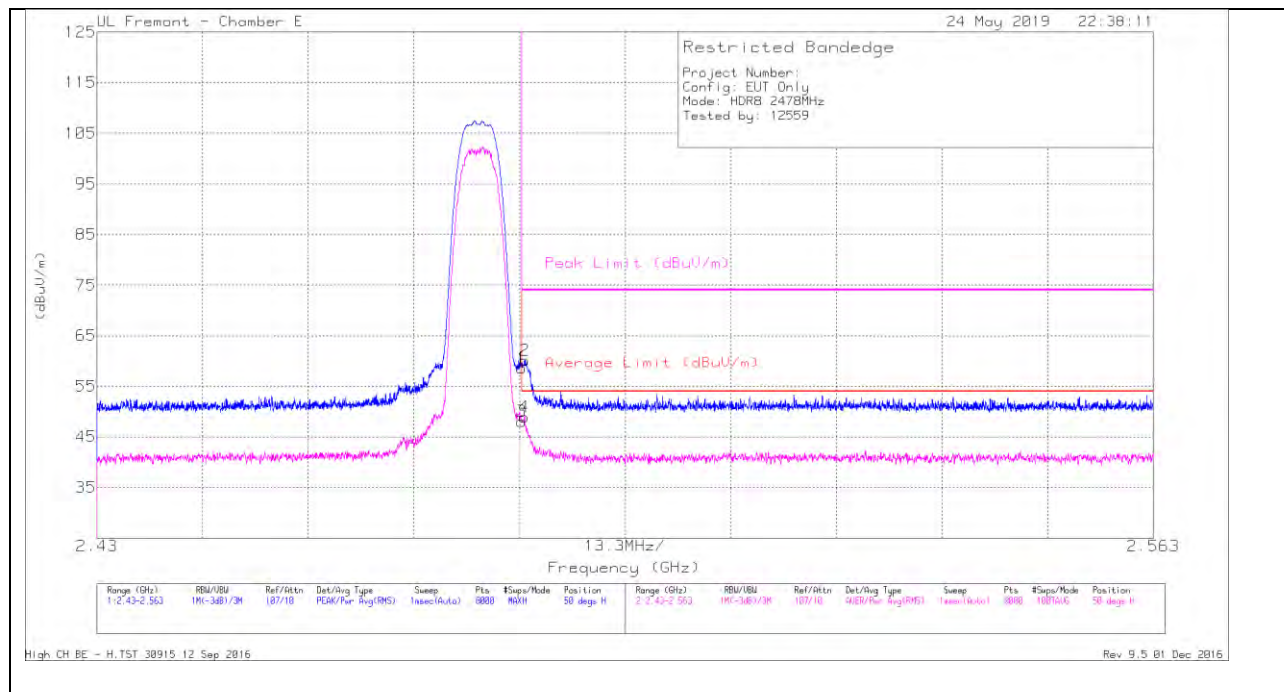
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.09	Pk	32.8	-26.3	58.59	-	-	74	-15.41	50	160	H
2	* 2.484	53.63	Pk	32.8	-26.3	60.13	-	-	74	-13.87	50	160	H
3	* 2.484	41.5	RMS	32.8	-26.3	48	54	-6	-	-	50	160	H
4	* 2.484	42.47	RMS	32.8	-26.3	48.97	54	-5.03	-	-	50	160	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

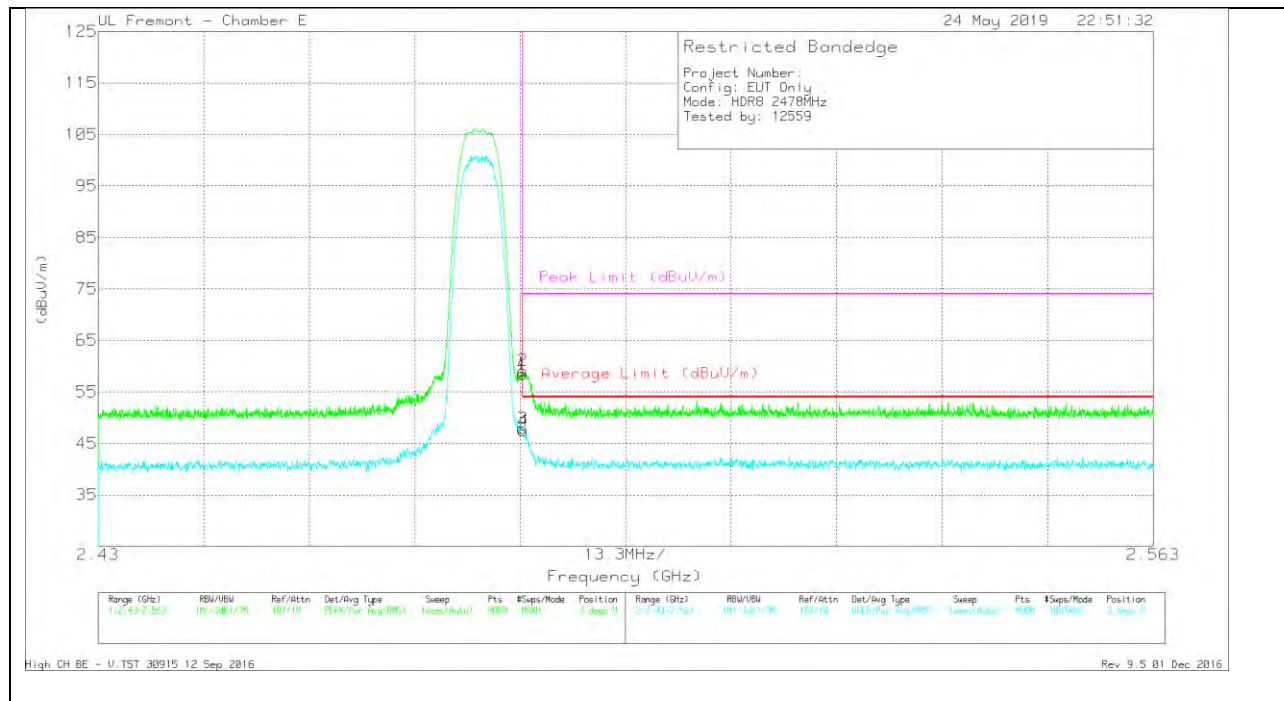
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.96	Pk	32.8	-26.3	58.46	-	-	74	-15.54	3	368	V
2	* 2.484	52.64	Pk	32.8	-26.3	59.14	-	-	74	-14.86	3	368	V
3	* 2.484	41.35	RMS	32.8	-26.3	47.85	54	-6.15	-	-	3	368	V
4	* 2.484	40.87	RMS	32.8	-26.3	47.37	54	-6.63	-	-	3	368	V

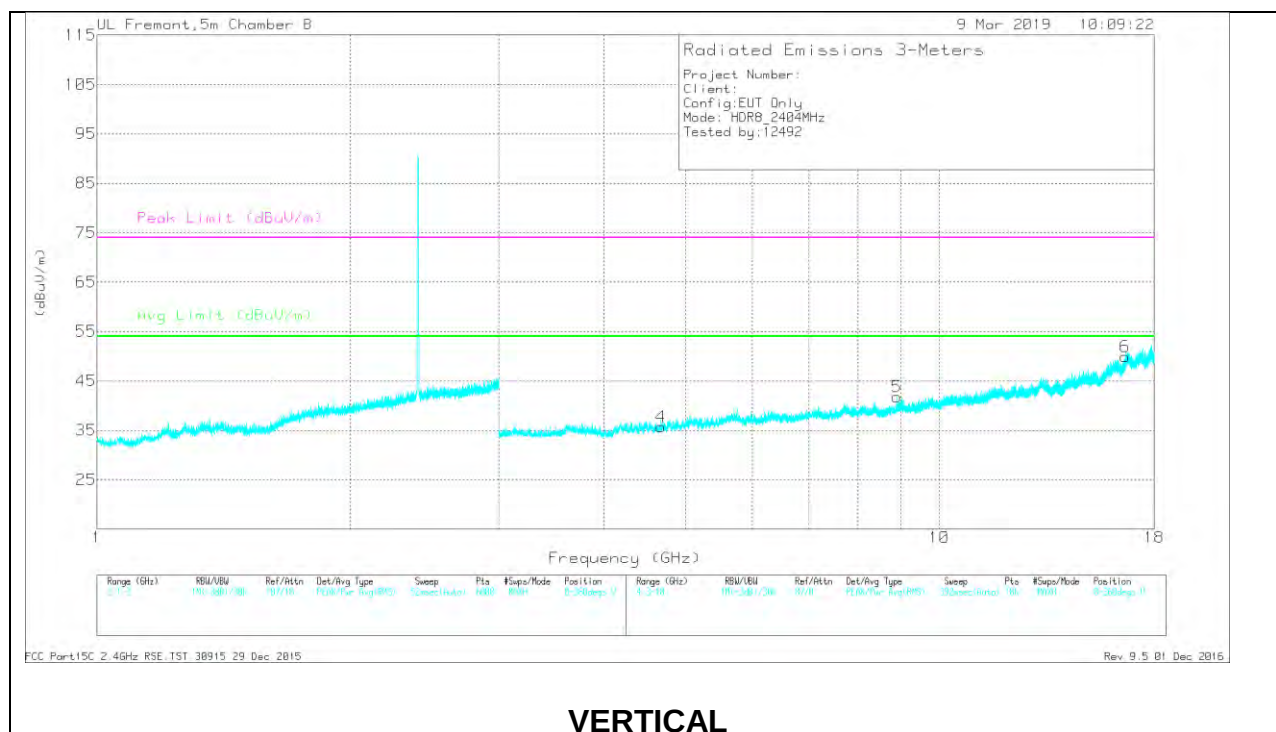
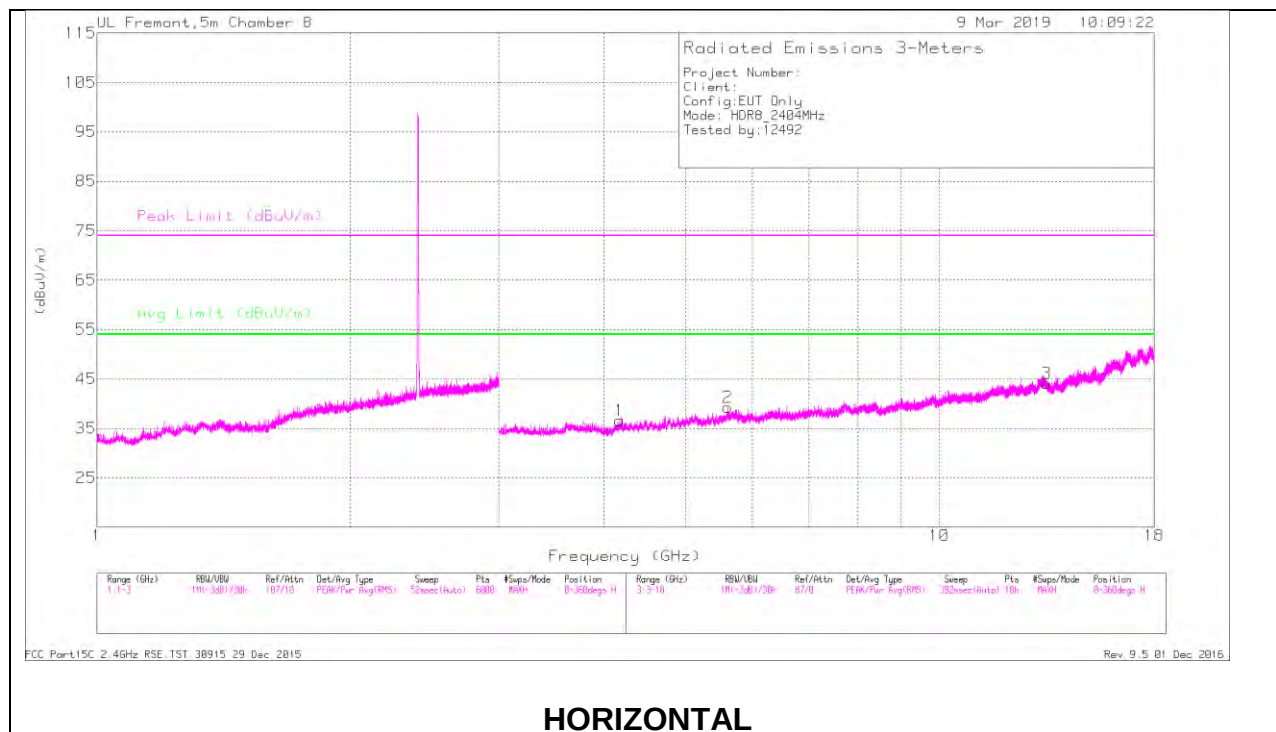
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

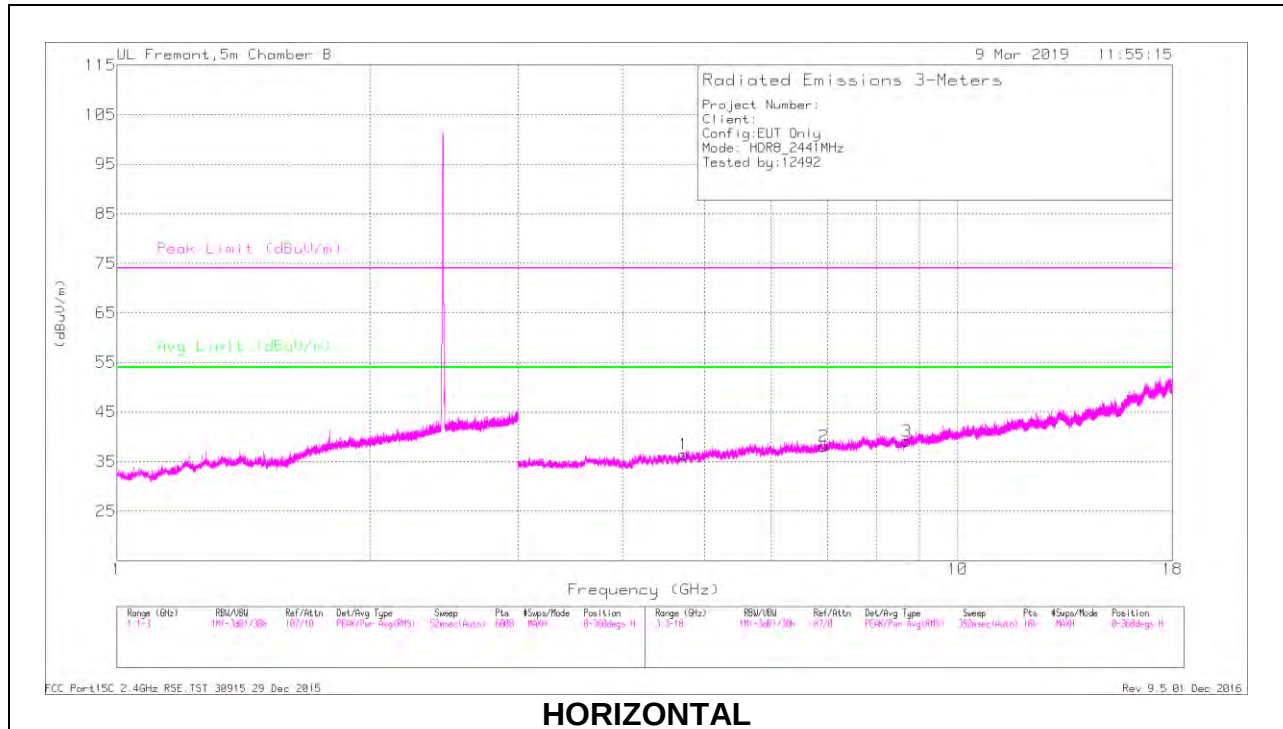
RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.176	37.7	PK2	33.6	-27.6	43.7	-	-	74	-30.3	245	270	H
	4.177	25.5	MAv1	33.6	-27.6	31.5	54	-22.5	-	-	245	270	H
4	4.67	26.73	MAv1	34.1	-29.2	31.63	54	-22.37	-	-	196	287	V
	4.673	39.68	PK2	34.1	-29.2	44.58	-	-	74	-29.42	196	287	V
2	5.609	37.86	PK2	35.5	-27.5	45.86	-	-	-	-	95	319	H
	5.611	25.39	MAv1	35.5	-27.5	33.39	-	-	-	-	95	319	H
5	8.905	21.6	MAv1	36.8	-23.9	34.5	-	-	-	-	40	195	V
	8.907	34.85	PK2	36.8	-23.8	47.85	-	-	-	-	40	195	V
3	13.415	34.42	PK2	40.1	-20.4	54.12	-	-	-	-	119	257	H
	13.415	19.2	MAv1	40.1	-20.4	38.9	-	-	-	-	119	257	H
6	16.629	17.28	MAv1	43.6	-17.8	43.08	-	-	-	-	146	384	V
	16.63	32.21	PK2	43.6	-17.8	58.01	-	-	-	-	146	384	V

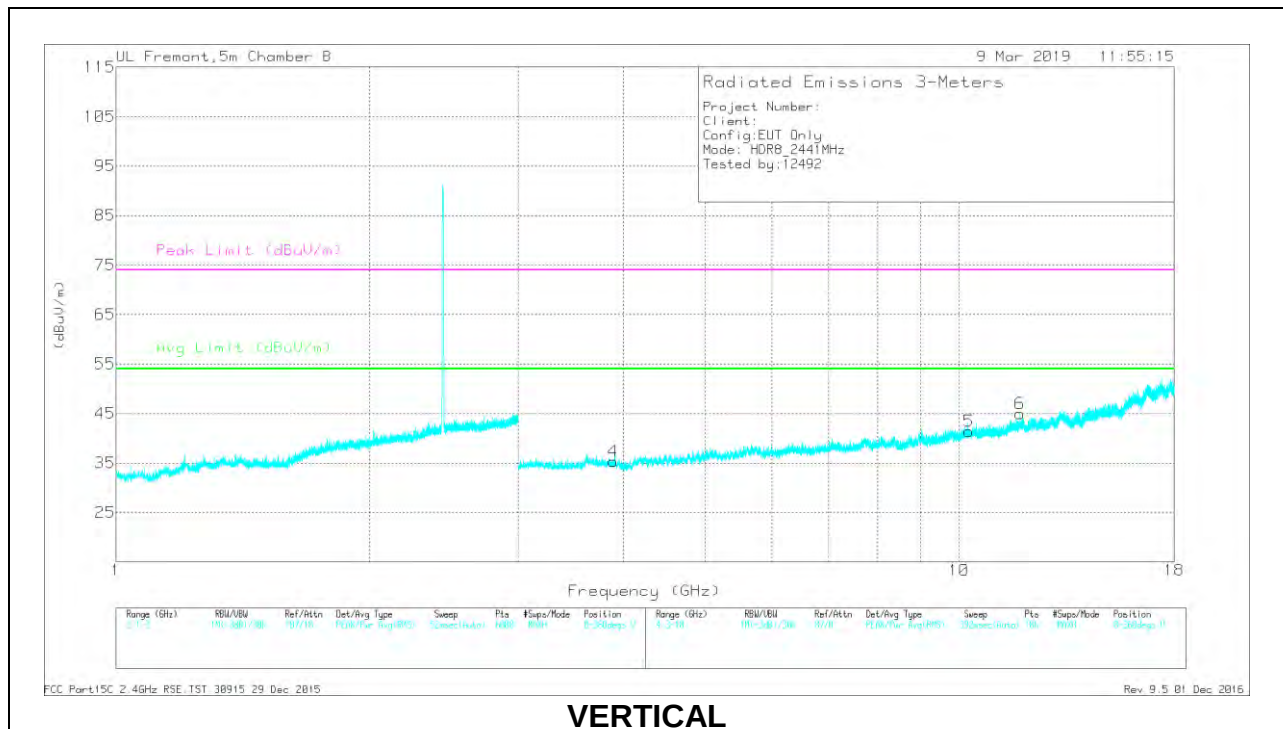
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

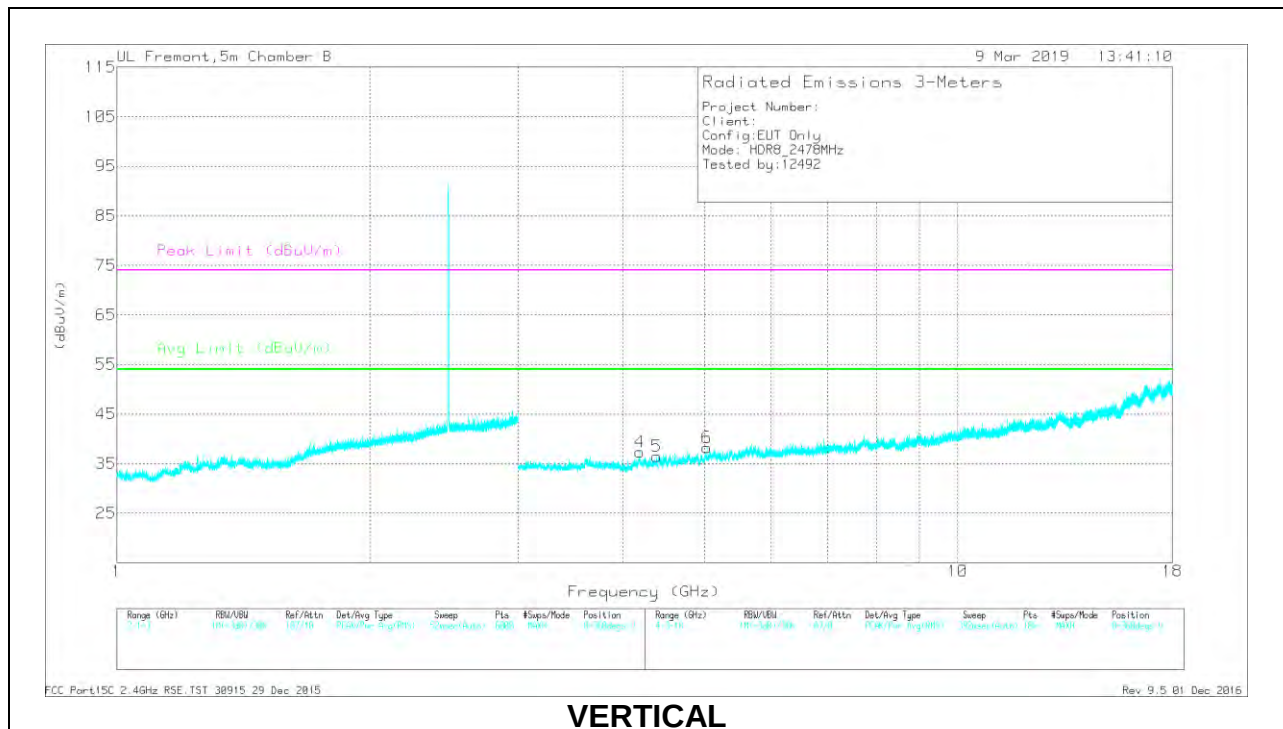
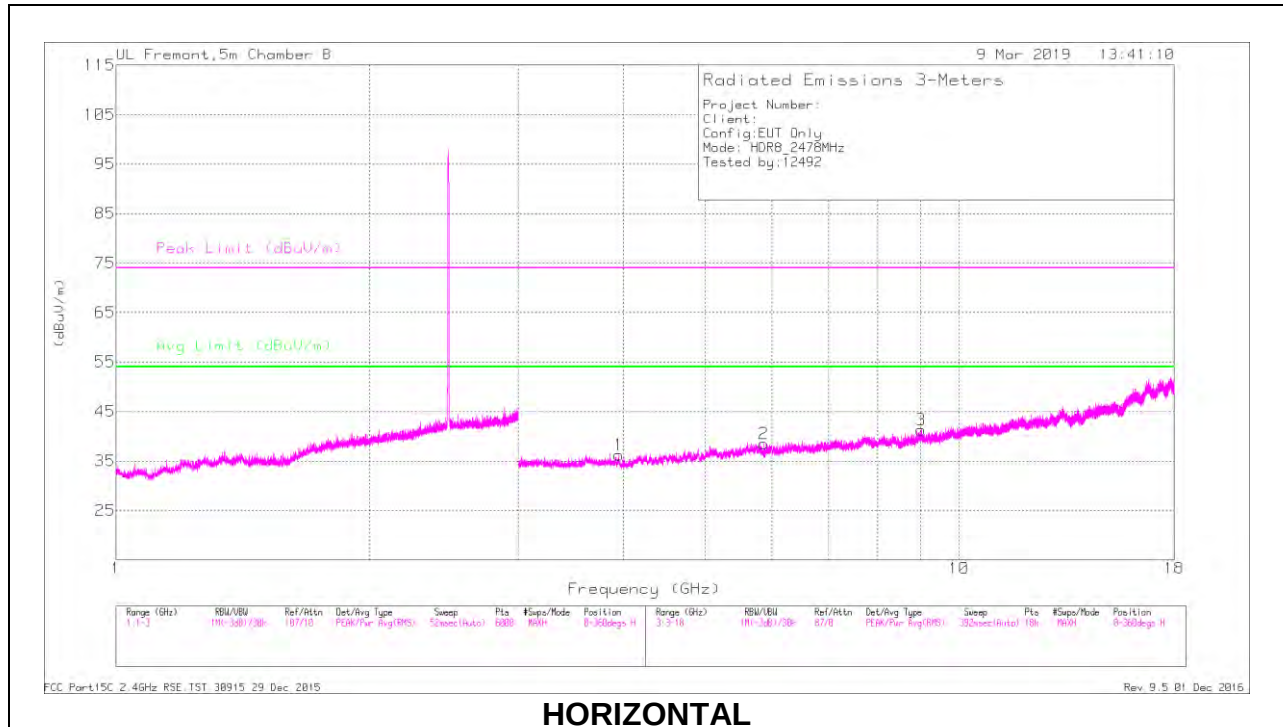
RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.888	39.87	PK2	33.4	-29.1	44.17	-	-	74	-29.83	243	246	V
	3.891	26.67	MAv1	33.4	-29.2	30.87	54	-23.13	-	-	243	246	V
1	4.725	38.34	PK2	34.1	-27.8	44.64	-	-	74	-29.36	279	196	H
	4.725	25.46	MAv1	34.1	-27.8	31.76	54	-22.24	-	-	279	196	H
2	6.932	35.97	PK2	35.8	-26.1	45.67	-	-	-	-	0	306	H
	6.933	23.7	MAv1	35.8	-26.2	33.3	-	-	-	-	0	306	H
3	8.698	34.54	PK2	36.4	-23.5	47.44	-	-	-	-	238	270	H
	8.698	21.37	MAv1	36.4	-23.5	34.27	-	-	-	-	238	270	H
5	10.275	33.74	PK2	37.8	-22	49.54	-	-	-	-	259	329	V
	10.275	19.95	MAv1	37.8	-22	35.75	-	-	-	-	259	329	V
6	11.809	33.15	PK2	39.1	-20.6	51.65	-	-	74	-22.35	5	269	V
	11.809	19.05	MAv1	39.1	-20.6	37.55	54	-16.45	-	-	5	269	V

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS

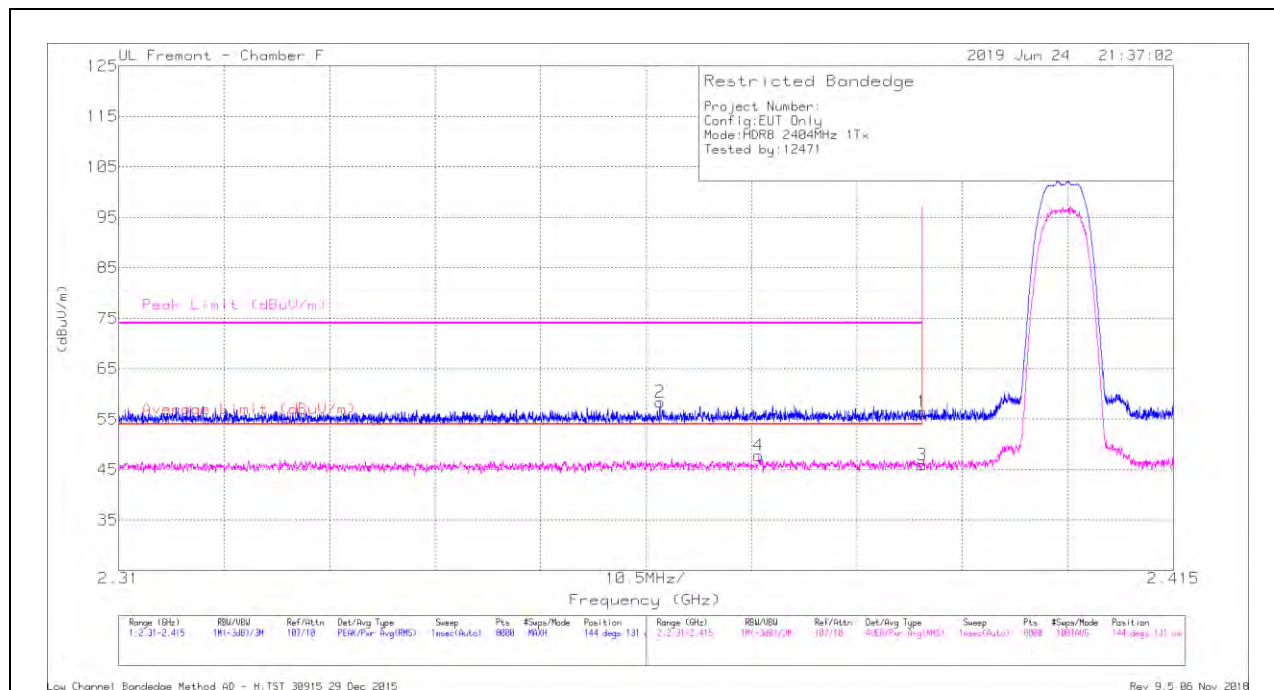


RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.946	39.91	PK2	33.4	-29.1	44.21	-	-	74	-29.79	132	263	H
	3.949	26.66	MAv1	33.4	-29.1	30.96	54	-23.04	-	-	132	263	H
4	4.186	25.76	MAv1	33.6	-27.6	31.76	54	-22.24	-	-	9	357	V
	4.187	37.75	PK2	33.6	-27.7	43.65	-	-	74	-30.35	9	357	V
5	4.384	39.04	PK2	33.8	-29.2	43.64	-	-	74	-30.36	101	262	V
	4.385	26.38	MAv1	33.8	-29.2	30.98	54	-23.02	-	-	101	262	V
6	5.034	24.24	MAv1	34.6	-27.6	31.24	54	-22.76	-	-	156	279	V
	5.035	36.65	PK2	34.6	-27.5	43.75	-	-	74	-30.25	156	279	V
2	5.869	25.11	MAv1	35.4	-28	32.51	-	-	-	-	147	193	H
	5.872	39.27	PK2	35.4	-28.1	46.57	-	-	-	-	147	193	H
3	9.006	34.38	PK2	36.8	-23	48.18	-	-	74	-25.82	199	172	H
	9.009	21.01	MAv1	36.8	-23	34.81	54	-19.19	-	-	199	172	H

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5**BANEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

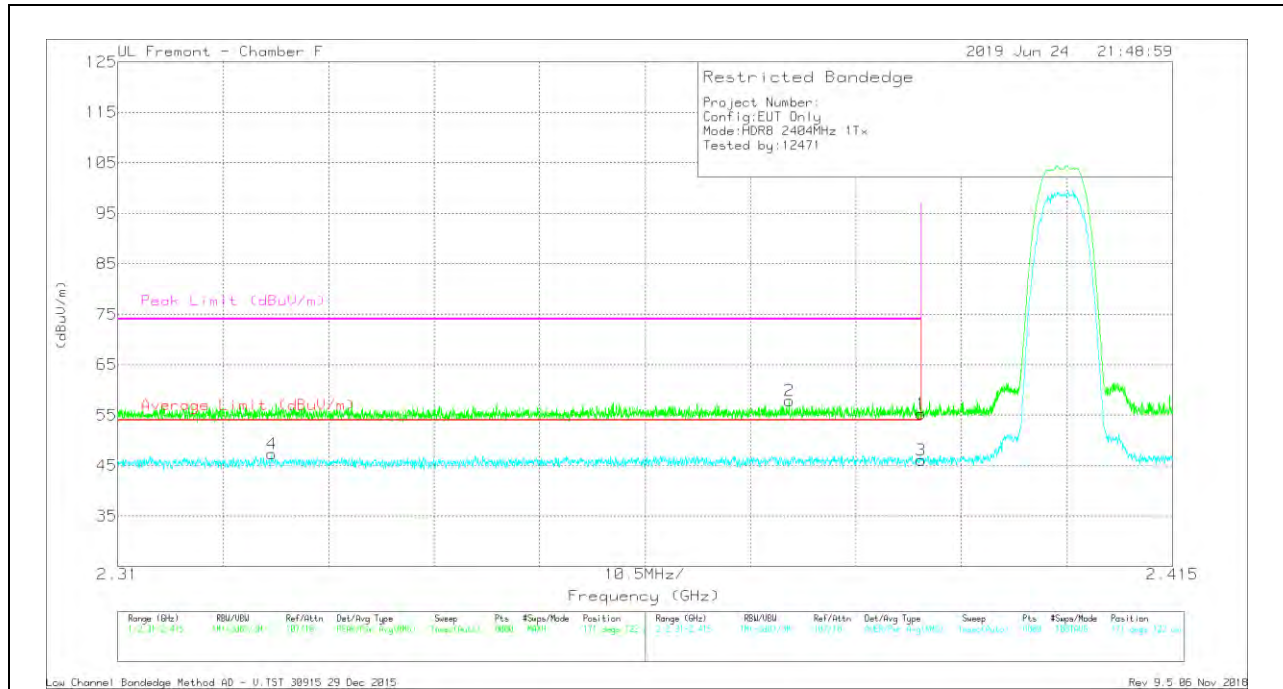
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.95	Pk	32	-14.5	56.45	-	-	74	-17.55	144	131	H
2	* 2.364	41.02	Pk	31.8	-14.4	58.42	-	-	74	-15.58	144	131	H
3	* 2.39	28.46	RMS	32	-14.5	45.96	54	-8.04	-	-	144	131	H
4	* 2.374	30.25	RMS	31.9	-14.4	47.75	54	-6.25	-	-	144	131	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

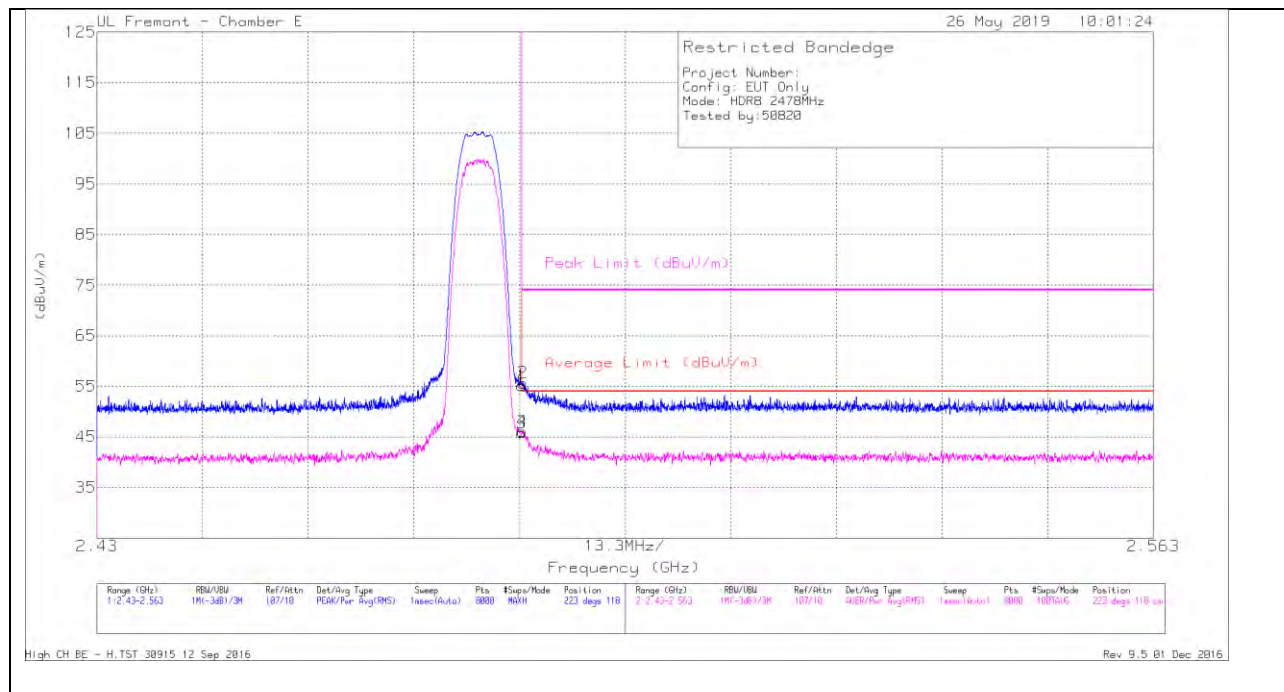


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Fitr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.8	Pk	32	-14.5	55.3	-	-	74	-18.7	171	122	V
2	* 2.377	40.36	Pk	31.9	-14.4	57.86	-	-	74	-16.14	171	122	V
3	* 2.39	28.62	RMS	32	-14.5	46.12	54	-7.88	-	-	171	122	V
4	* 2.325	30.12	RMS	31.7	-14.5	47.32	54	-6.68	-	-	171	122	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

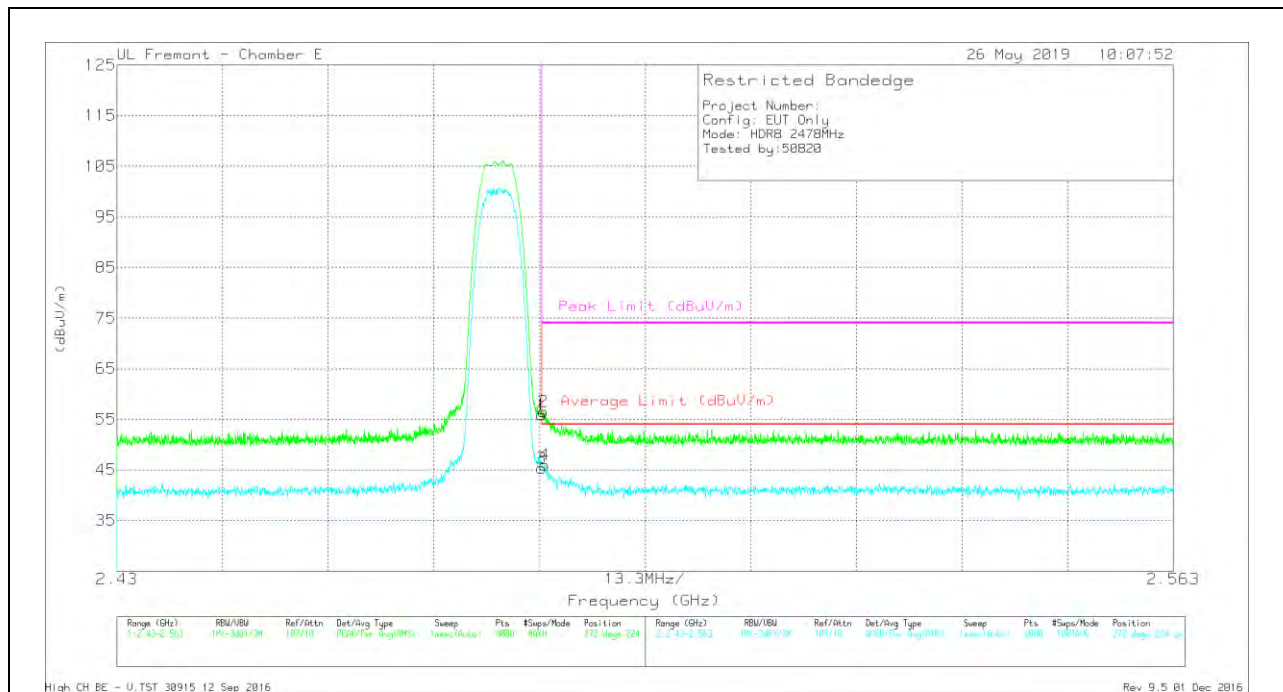
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.66	Pk	32.8	-26.3	55.16	-	-	74	-18.84	223	118	H
2	* 2.484	49.19	Pk	32.8	-26.3	55.69	-	-	74	-18.31	223	118	H
3	* 2.484	39.38	RMS	32.8	-26.3	45.88	54	-8.12	-	-	223	118	H
4	* 2.484	39.52	RMS	32.8	-26.3	46.02	54	-7.98	-	-	223	118	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

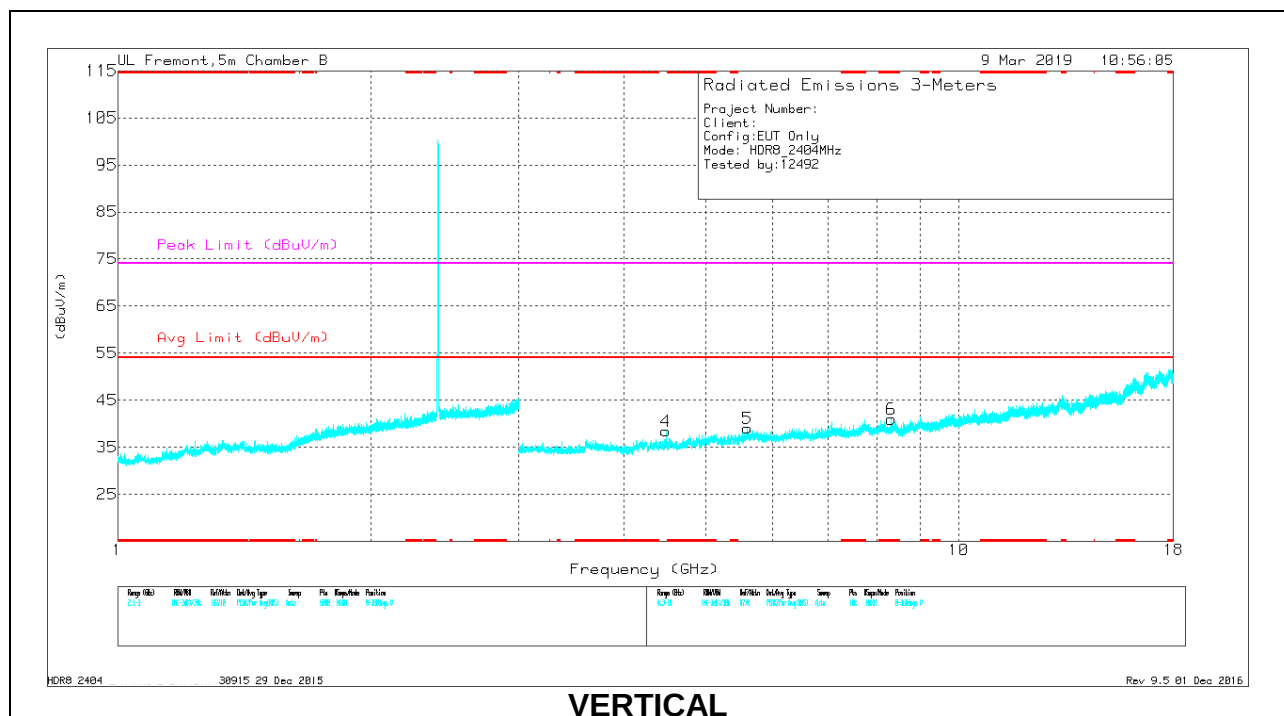
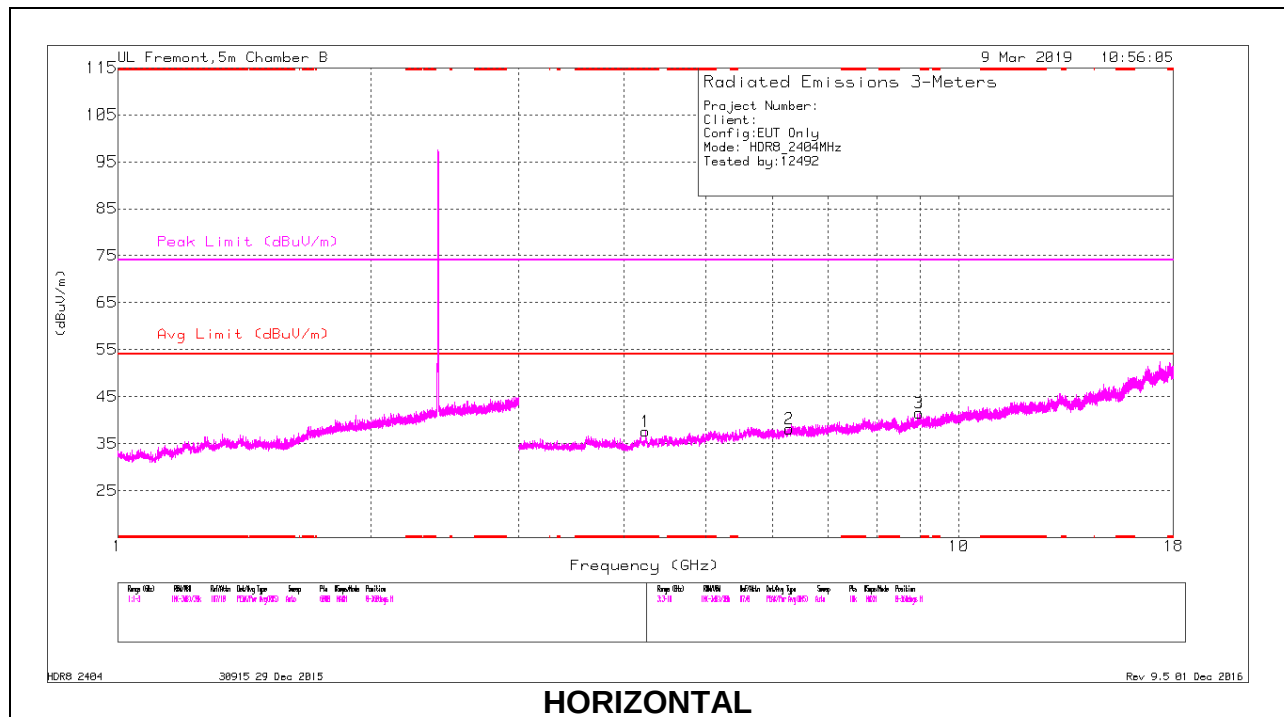


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.33	Pk	32.8	-26.3	55.83	-	-	74	-18.17	272	224	V
2	* 2.484	50.03	Pk	32.8	-26.3	56.53	-	-	74	-17.47	272	224	V
3	* 2.484	38.77	RMS	32.8	-26.3	45.27	54	-8.73	-	-	272	224	V
4	* 2.484	39.5	RMS	32.8	-26.3	46	54	-8	-	-	272	224	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

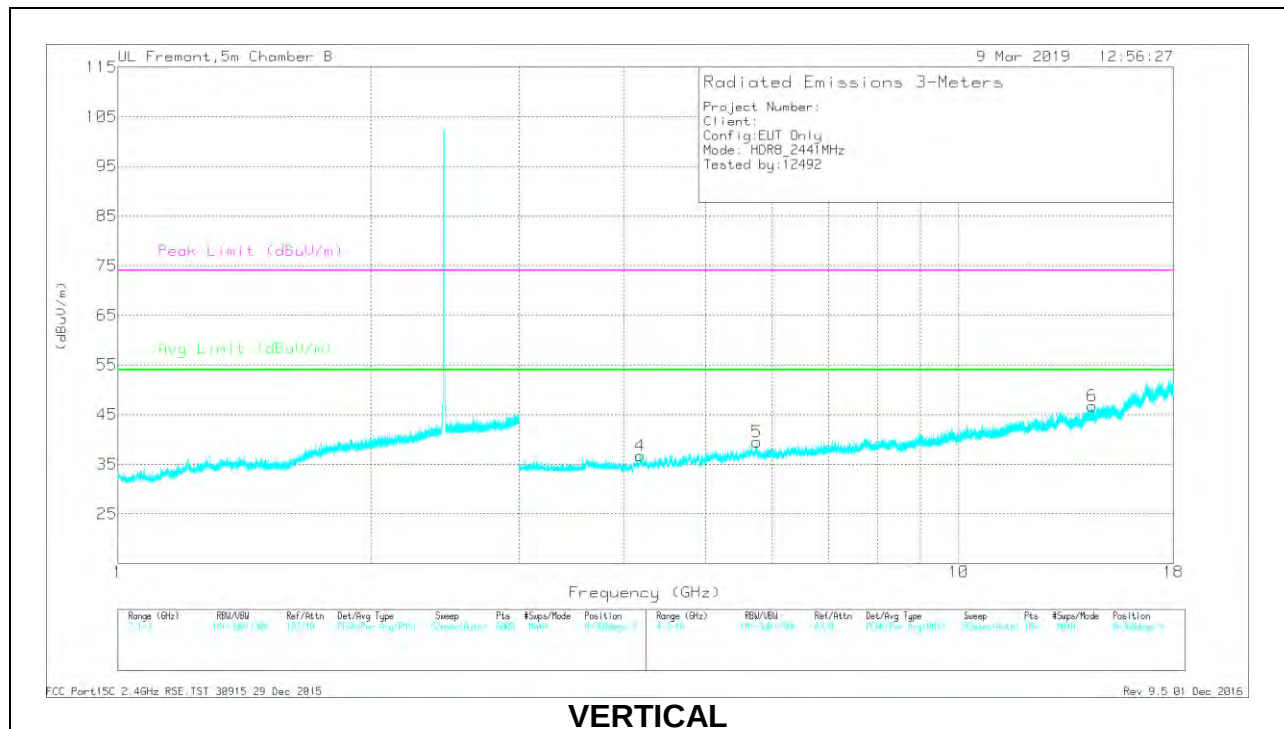
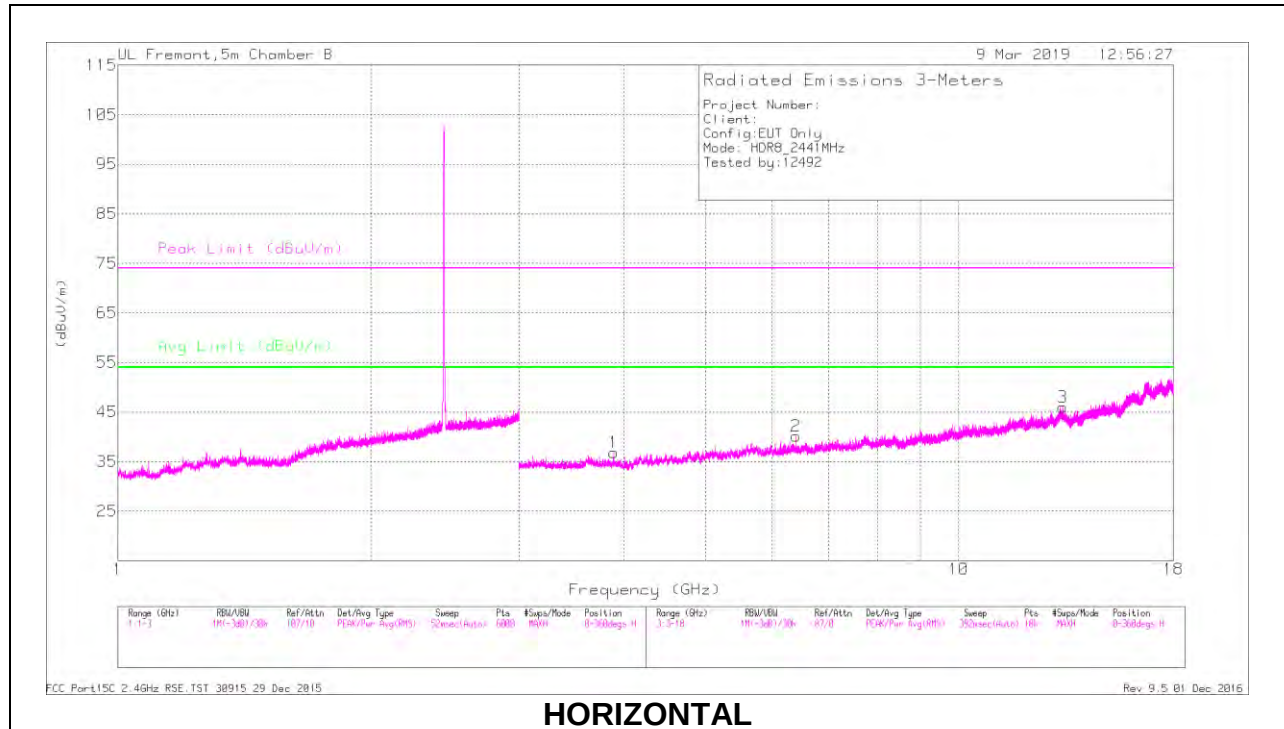
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.24	38.23	PK2	33.6	-28	43.83	-	-	74	-30.17	32	280	H
	* 4.244	26.04	MAv1	33.6	-28.1	31.54	54	-22.46	-	-	32	280	H
6	* 8.303	35.26	PK2	36.3	-24.5	47.06	-	-	74	-26.94	200	136	V
	* 8.304	22.17	MAv1	36.3	-24.5	33.97	54	-20.03	-	-	200	136	V
4	4.486	38.49	PK2	33.8	-27.6	44.69	-	-	-	-	13	300	V
	4.487	25.76	MAv1	33.8	-27.6	31.96	-	-	-	-	13	300	V
5	5.604	38.52	PK2	35.5	-27.6	46.42	-	-	-	-	165	333	V
	5.604	25.32	MAv1	35.5	-27.6	33.22	-	-	-	-	165	333	V
2	6.288	36.48	PK2	35.6	-26.5	45.58	-	-	-	-	115	120	H
	6.288	24.01	MAv1	35.6	-26.5	33.11	-	-	-	-	115	120	H
3	8.97	21.16	MAv1	36.8	-23.2	34.76	-	-	-	-	89	306	H
	8.971	34.27	PK2	36.8	-23.2	47.87	-	-	-	-	89	306	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



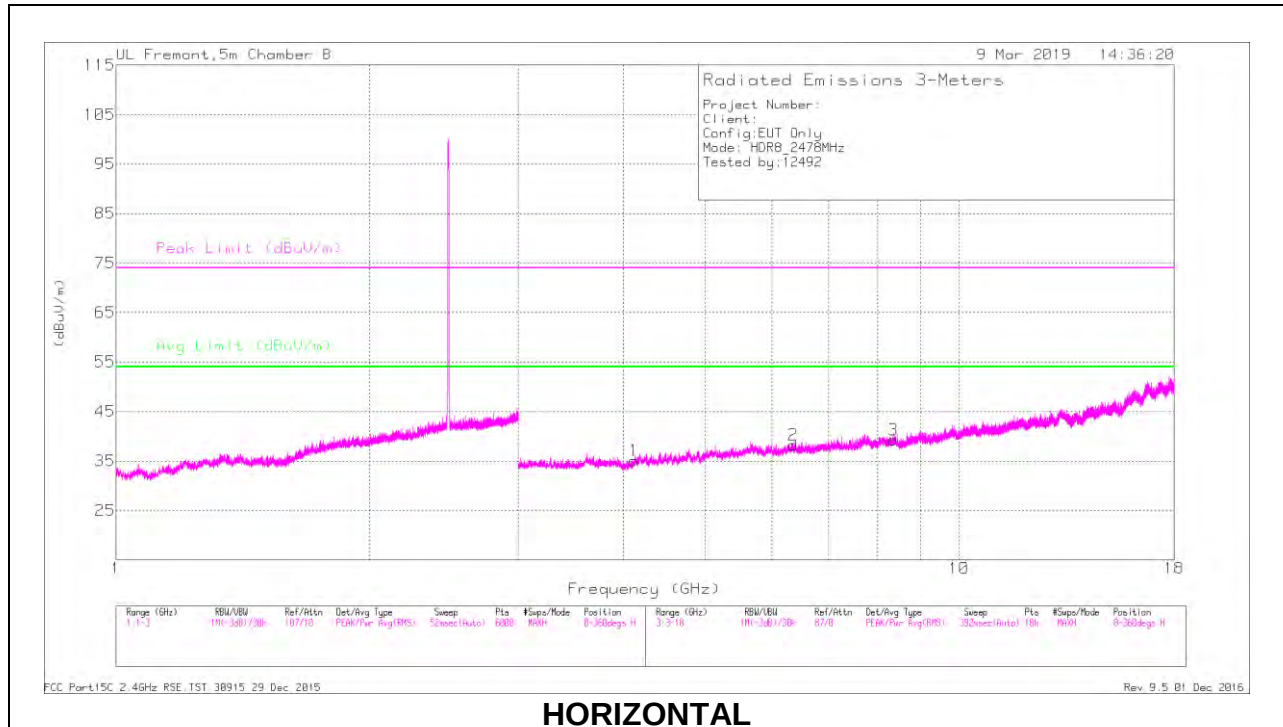
RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.885	38.87	PK2	33.4	-29.2	43.07	-	-	74	-30.93	25	110	H
	3.886	26.6	MAv1	33.4	-29.1	30.9	54	-23.1	-	-	25	110	H
4	4.183	38.55	PK2	33.6	-27.6	44.55	-	-	74	-29.45	156	302	V
	4.185	25.72	MAv1	33.6	-27.6	31.72	54	-22.28	-	-	156	302	V
5	5.754	37.53	PK2	35.5	-27.2	45.83	-	-	-	-	47	213	V
	5.754	24.97	MAv1	35.5	-27.1	33.37	-	-	-	-	47	213	V
2	6.398	24.88	MAv1	35.8	-27.2	33.48	-	-	-	-	49	184	H
	6.399	37.61	PK2	35.8	-27.2	46.21	-	-	-	-	49	184	H
3	13.293	19.11	MAv1	40.8	-20.7	39.21	54	-14.79	-	-	210	158	H
	13.294	32.56	PK2	40.8	-20.7	52.66	-	-	74	-21.34	210	158	H
6	14.425	32.73	PK2	40.1	-19.2	53.63	-	-	-	-	318	111	V
	14.425	17.99	MAv1	40.1	-19.2	38.89	-	-	-	-	318	111	V

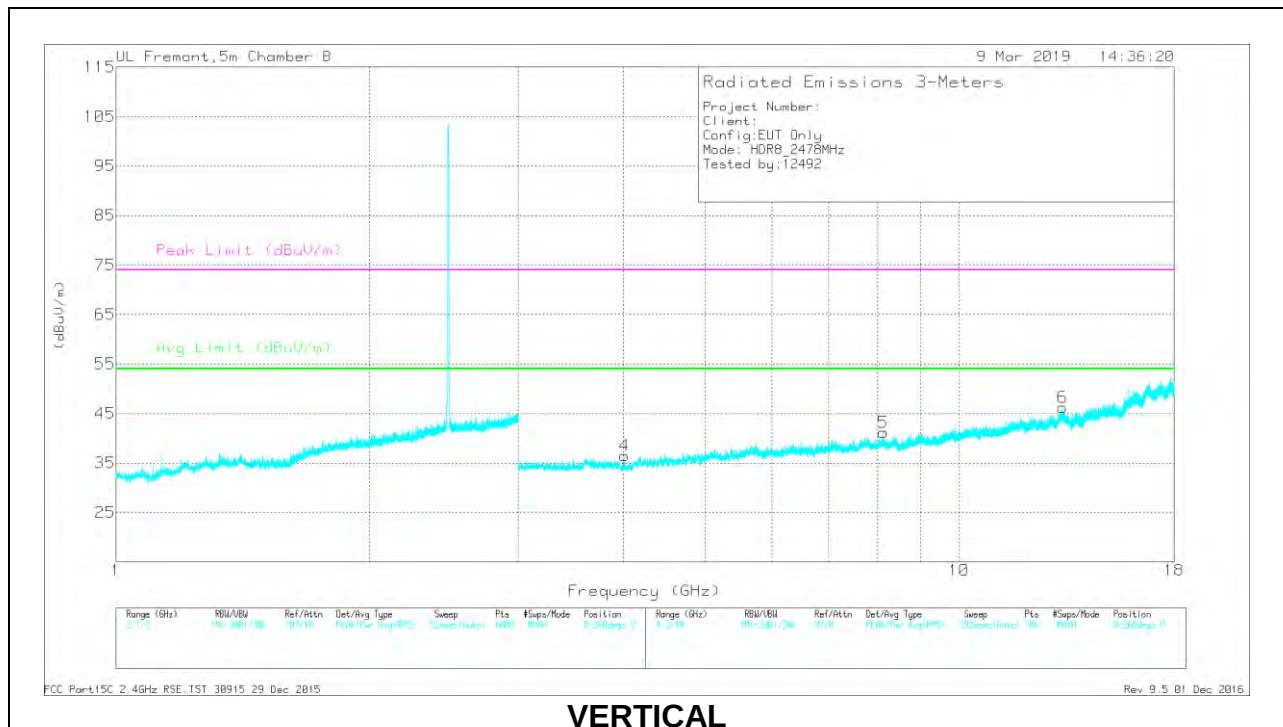
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.008	38.49	PK2	33.3	-29.4	42.39	-	-	74	-31.61	199	236	V
	4.008	26.58	MAv1	33.3	-29.4	30.48	54	-23.52	-	-	199	236	V
1	4.112	38.45	PK2	33.6	-28.9	43.15	-	-	74	-30.85	173	181	H
	4.112	26.14	MAv1	33.6	-28.9	30.84	54	-23.16	-	-	173	181	H
2	6.355	24.25	MAv1	35.7	-26.4	33.55	-	-	-	-	263	268	H
	6.356	37.03	PK2	35.7	-26.4	46.33	-	-	-	-	263	268	H
5	8.133	35.24	PK2	36.5	-24.7	47.04	-	-	74	-26.96	224	151	V
	8.133	22.33	MAv1	36.5	-24.7	34.13	54	-19.87	-	-	224	151	V
3	8.359	21.63	MAv1	36.3	-23.8	34.13	54	-19.87	-	-	359	288	H
	8.362	34.51	PK2	36.3	-23.7	47.11	-	-	74	-26.89	359	288	H
6	13.268	32.82	PK2	40.7	-20.4	53.12	-	-	74	-20.88	309	202	V
	13.269	18.75	MAv1	40.7	-20.3	39.15	54	-14.85	-	-	309	202	V

PK2 - KDB558074 Method: Maximum Peak

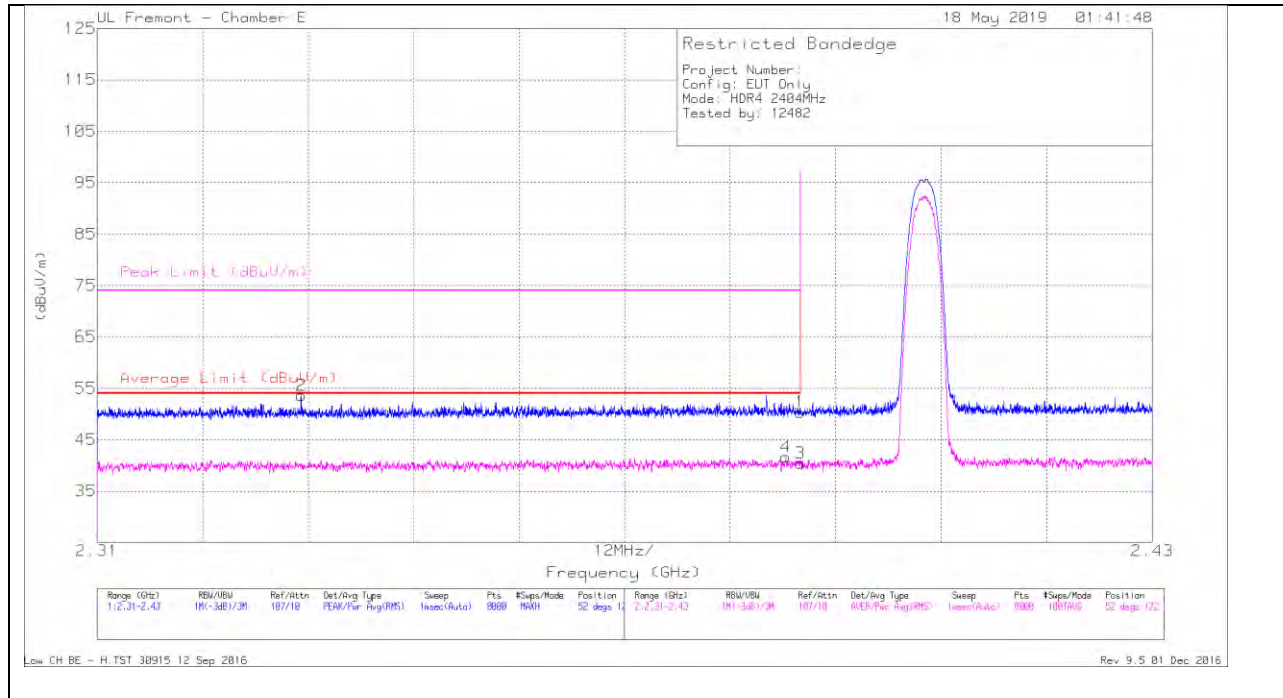
MAv1 - KDB558074 Option 1 Maximum RMS Average

9.2.3. LOW POWER HDR (HDR4)

Antenna 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cb/Flt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.29	Pk	32.3	-26.2	50.39	-	-	74	-23.61	52	122	H
2	* 2.333	48.02	Pk	31.9	-26.3	53.62	-	-	74	-20.38	52	122	H
3	* 2.39	34.33	RMS	32.3	-26.2	40.43	54	-13.57	-	-	52	122	H
4	* 2.388	35.52	RMS	32.3	-26.2	41.62	54	-12.38	-	-	52	122	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

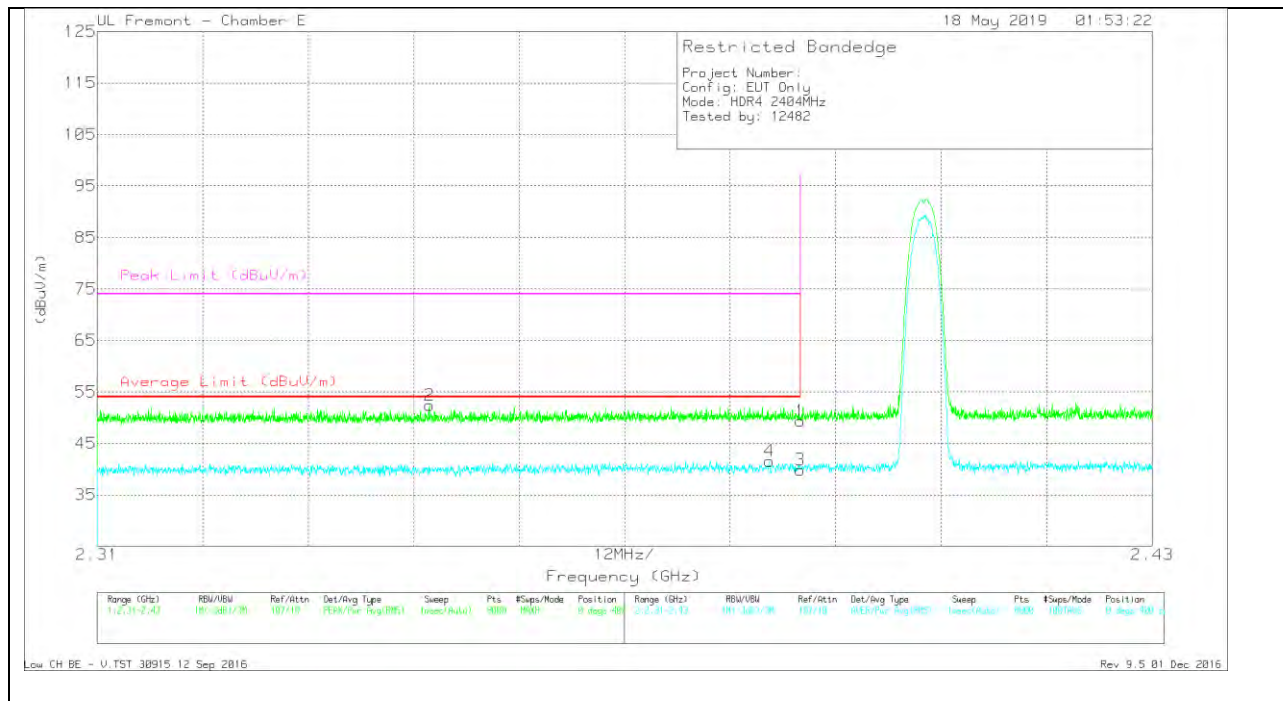
Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.24	Pk	32.3	-26.2	49.34	-	-	74	-24.66	0	400	V
2	* 2.348	46.59	Pk	32	-26.2	52.39	-	-	74	-21.61	0	400	V
3	* 2.39	33.75	RMS	32.3	-26.2	39.85	54	-14.15	-	-	0	400	V
4	* 2.386	35.56	RMS	32.3	-26.3	41.56	54	-12.44	-	-	0	400	V

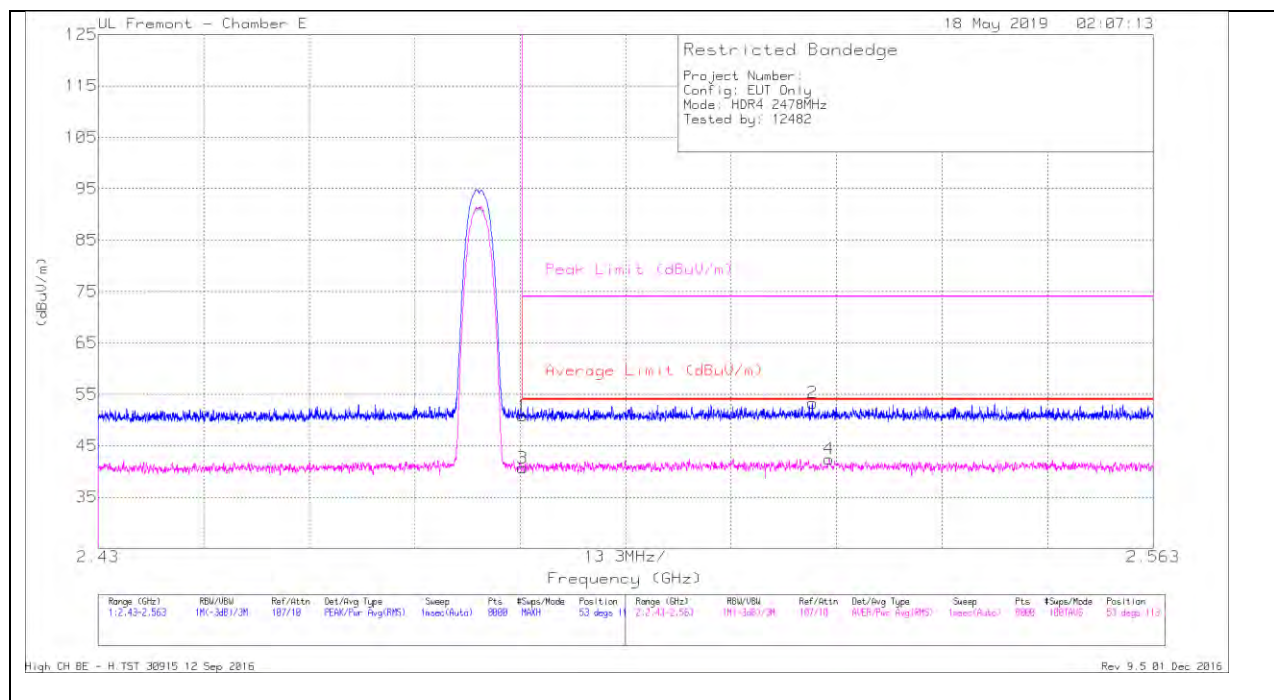
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fltr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.29	Pk	32.8	-26.3	50.79	-	-	74	-23.21	53	113	H
3	* 2.484	34.15	RMS	32.8	-26.3	40.65	54	-13.35	-	-	53	113	H
2	2.52	46.63	Pk	32.9	-26.2	53.33	-	-	74	-20.67	53	113	H
4	2.522	35.83	RMS	32.9	-26.3	42.43	54	-11.57	-	-	53	113	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

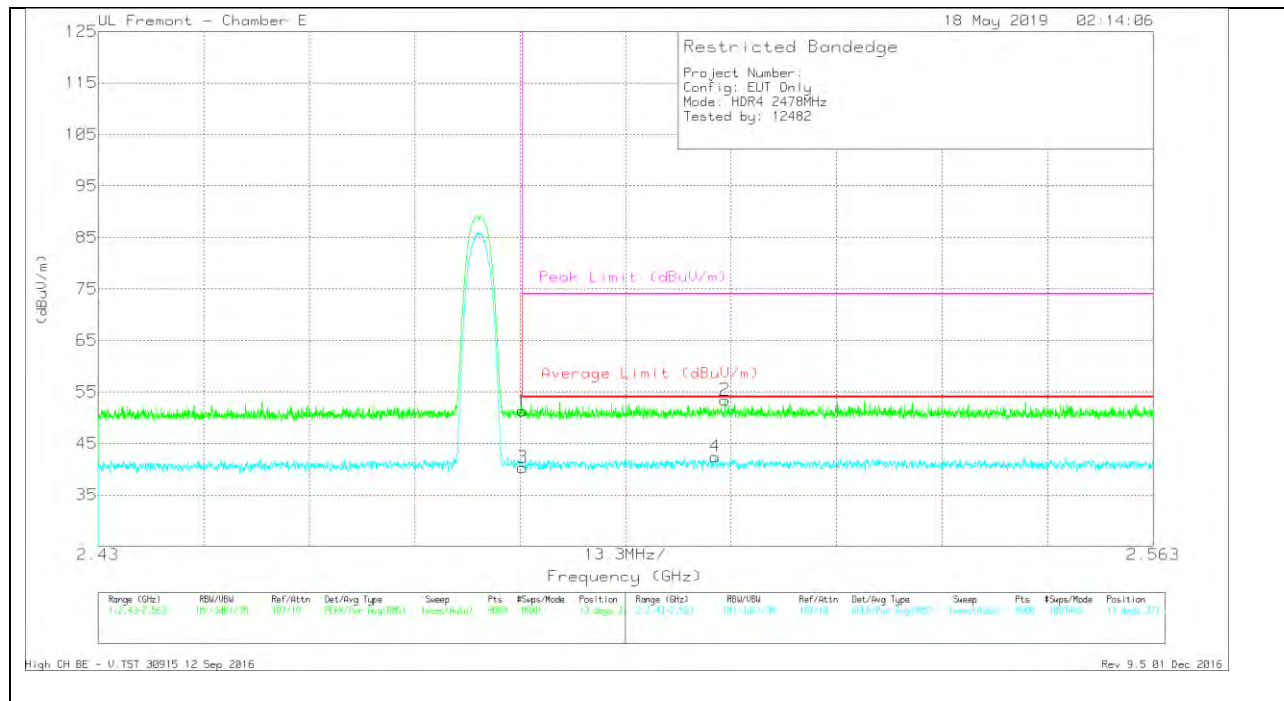
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.81	Pk	32.8	-26.3	51.31	-	-	74	-22.69	13	377	V
3	* 2.484	33.84	RMS	32.8	-26.3	40.34	54	-13.66	-	-	13	377	V
4	2.508	35.74	RMS	32.9	-26.2	42.44	54	-11.56	-	-	13	377	V
2	2.509	46.73	Pk	32.9	-26.2	53.43	-	-	74	-20.57	13	377	V

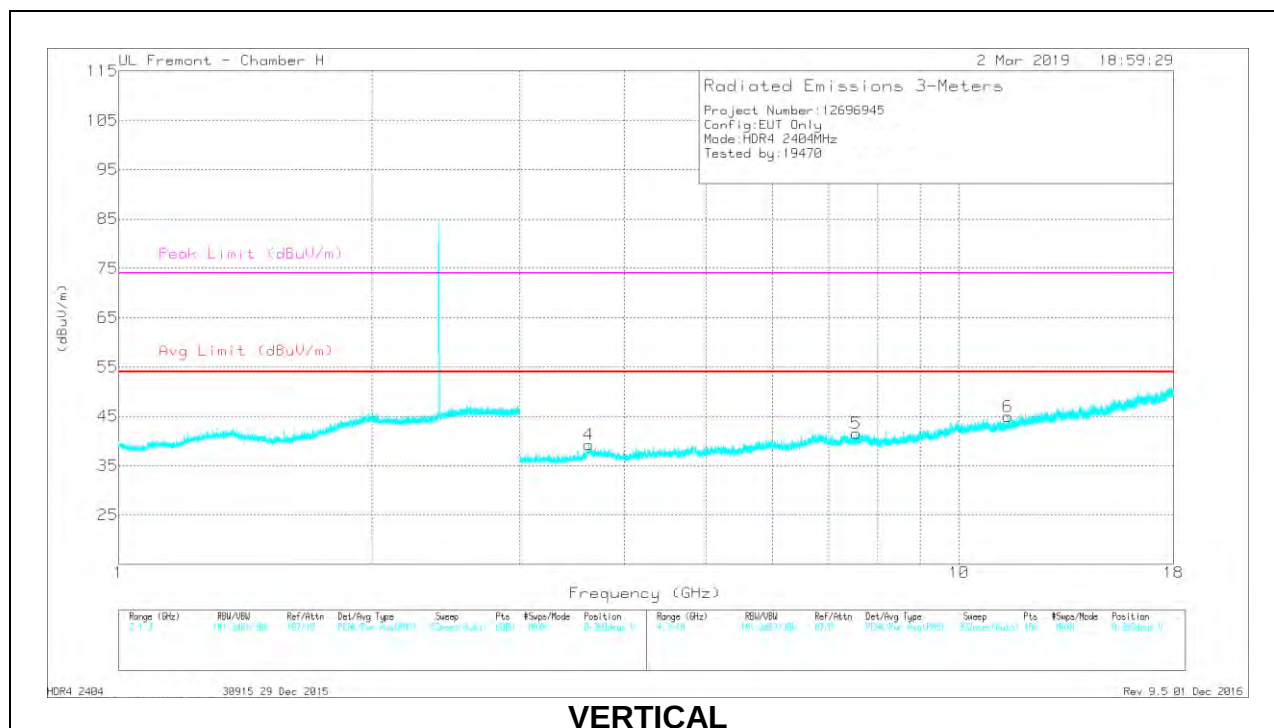
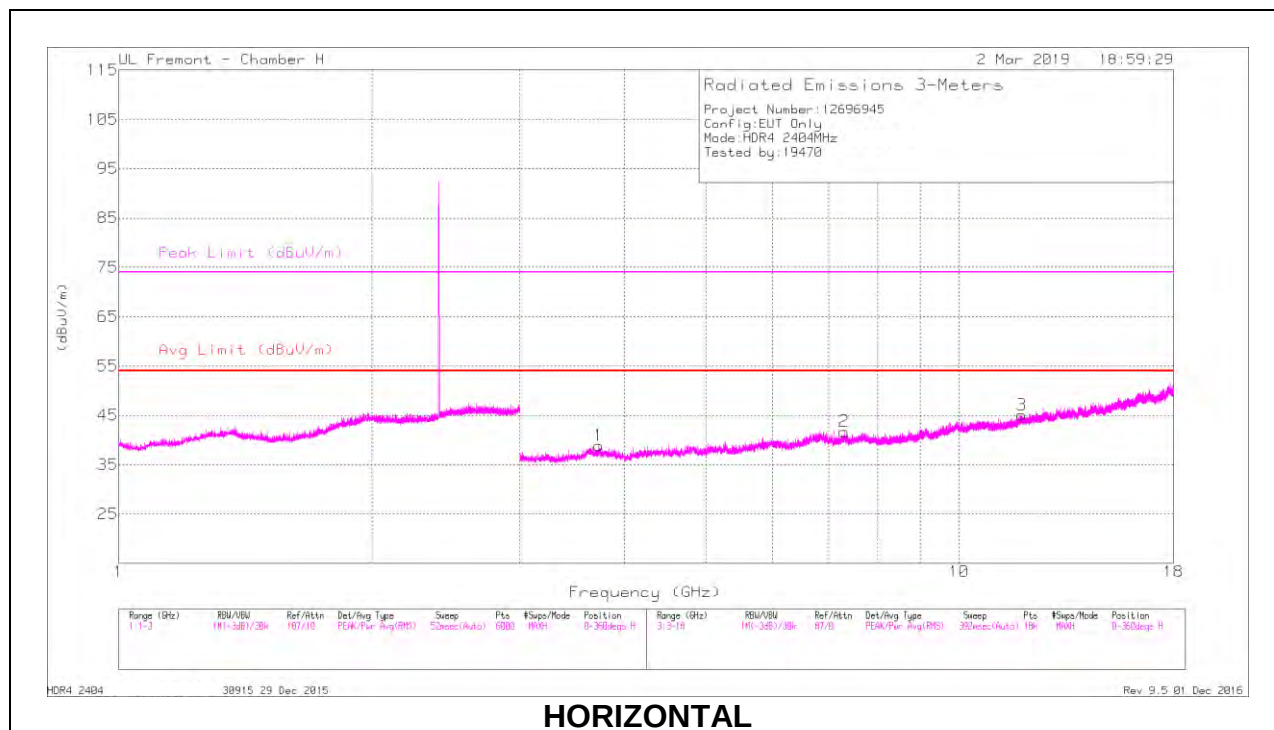
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

High CH BE - V.TST 30915 12 Sep 2016

Rev 9.5 01 Dec 2016

HARMONICS AND SPURIOUS EMISSIONS**LOW CHANNEL RESULTS**

RADIATED EMISSIONS

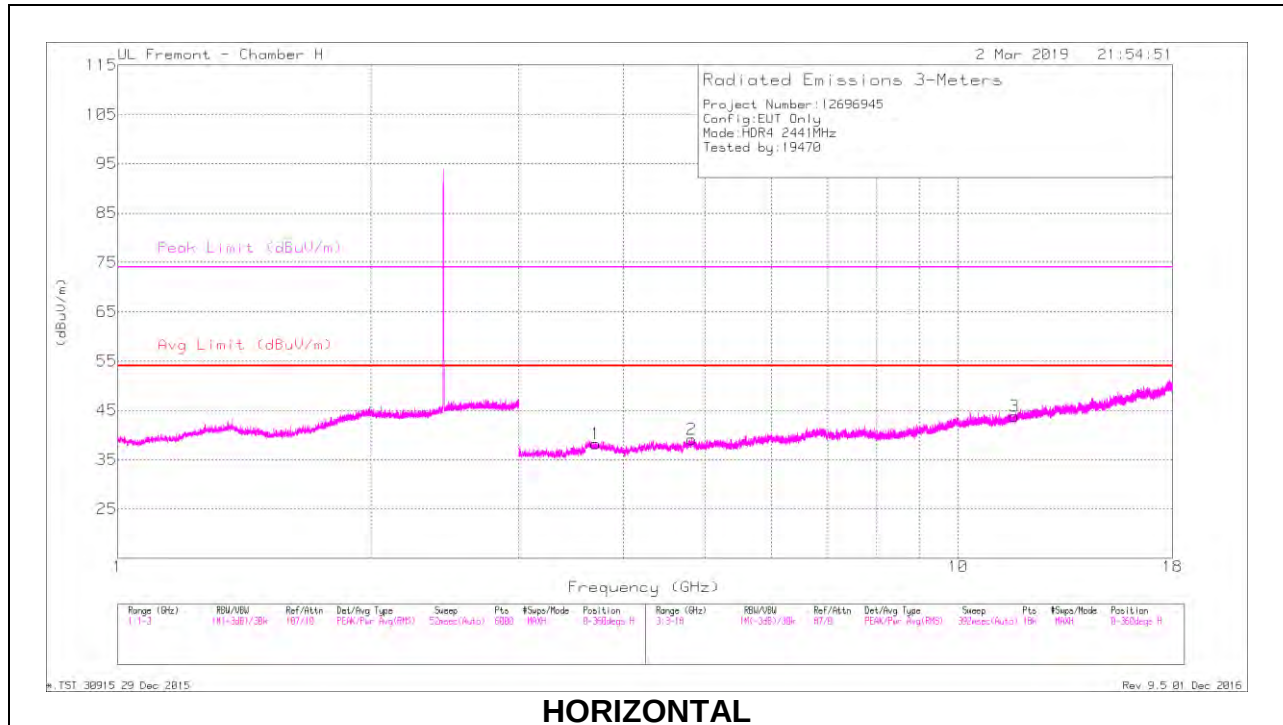
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.731	41.95	PK2	33.2	-30.8	0	44.35	-	-	74	-29.65	112	137	H
	* 3.73	31.29	MAv1	33.2	-30.8	0	33.69	54	-20.31	-	-	112	137	H
2	* 7.298	39.07	PK2	36.3	-26.7	0	48.67	-	-	74	-25.33	145	185	H
	* 7.301	27.53	MAv1	36.3	-26.7	0	37.13	54	-16.87	-	-	145	185	H
3	* 11.868	35.63	PK2	38.7	-22.7	0	51.63	-	-	74	-22.37	190	168	H
	* 11.868	24.89	MAv1	38.7	-22.7	0	40.89	54	-13.11	-	-	190	168	H
4	* 3.626	41.28	PK2	33.1	-29.6	0	44.78	-	-	74	-29.22	179	214	V
	* 3.626	29.85	MAv1	33.1	-29.6	0	33.35	54	-20.65	-	-	179	214	V
5	* 7.546	39.72	PK2	36.5	-27.5	0	48.72	-	-	74	-25.28	165	183	V
	* 7.549	27.45	MAv1	36.6	-27.5	0	36.55	54	-17.45	-	-	165	183	V
6	* 11.436	36.16	PK2	38.2	-23.3	0	51.06	-	-	74	-22.94	184	203	V
	* 11.438	24.77	MAv1	38.2	-23.3	0	39.67	54	-14.33	-	-	184	203	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

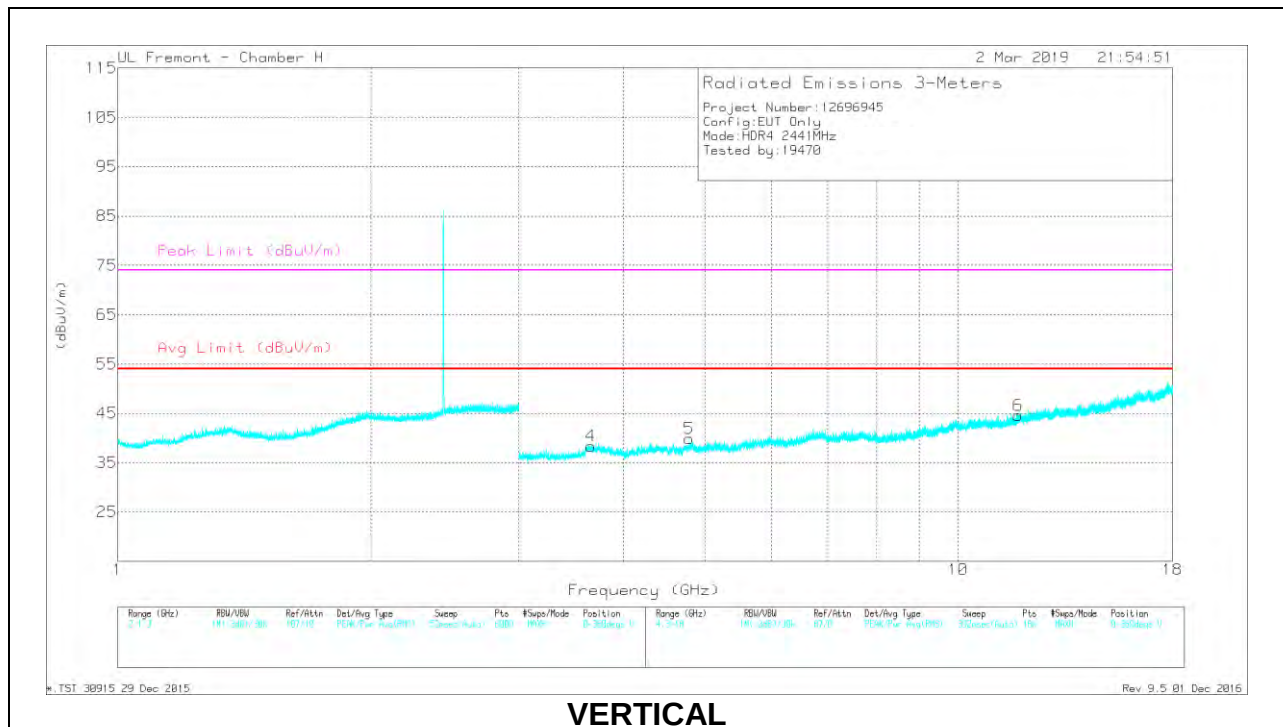
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

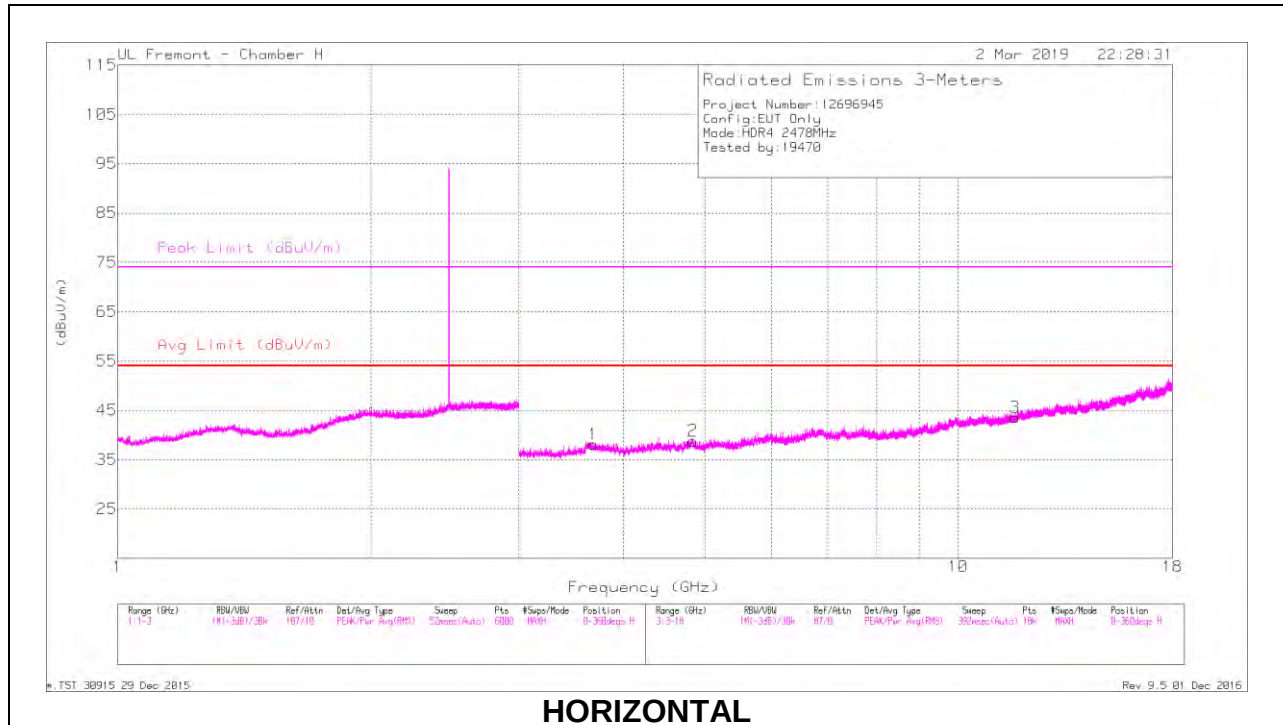
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.712	41.44	PK2	33.1	-30.6	0	43.94	-	-	74	-30.06	217	179	H
	* 3.709	30.7	MAv1	33.1	-30.6	0	33.2	54	-20.8	-	-	217	179	H
2	* 4.826	43.29	PK2	34.1	-30.3	0	47.09	-	-	74	-26.91	223	196	H
	* 4.827	30.86	MAv1	34.1	-30.3	0	34.66	54	-19.34	-	-	223	196	H
3	* 11.677	35.88	PK2	38.5	-23.3	0	51.08	-	-	74	-22.92	184	164	H
	* 11.678	24.69	MAv1	38.5	-23.3	0	39.89	54	-14.11	-	-	184	164	H
4	* 3.653	40.64	PK2	33.1	-29.7	0	44.04	-	-	74	-29.96	195	189	V
	* 3.654	29.82	MAv1	33.1	-29.6	0	33.32	54	-20.68	-	-	195	189	V
5	* 4.787	42.5	PK2	34.1	-30.2	0	46.4	-	-	74	-27.6	169	198	V
	* 4.79	30.86	MAv1	34.1	-30.2	0	34.76	54	-19.24	-	-	169	198	V
6	* 11.792	35.82	PK2	38.6	-23	0	51.42	-	-	74	-22.58	178	180	V
	* 11.794	24.76	MAv1	38.7	-23	0	40.46	54	-13.54	-	-	178	180	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

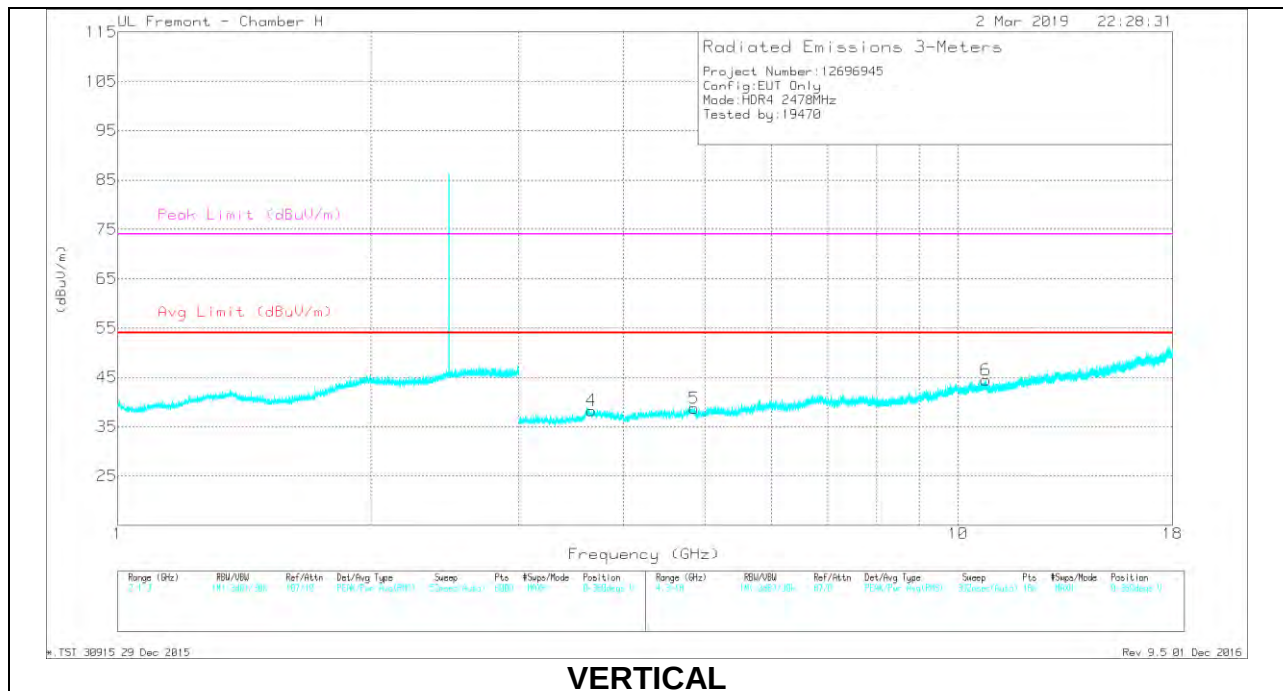
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

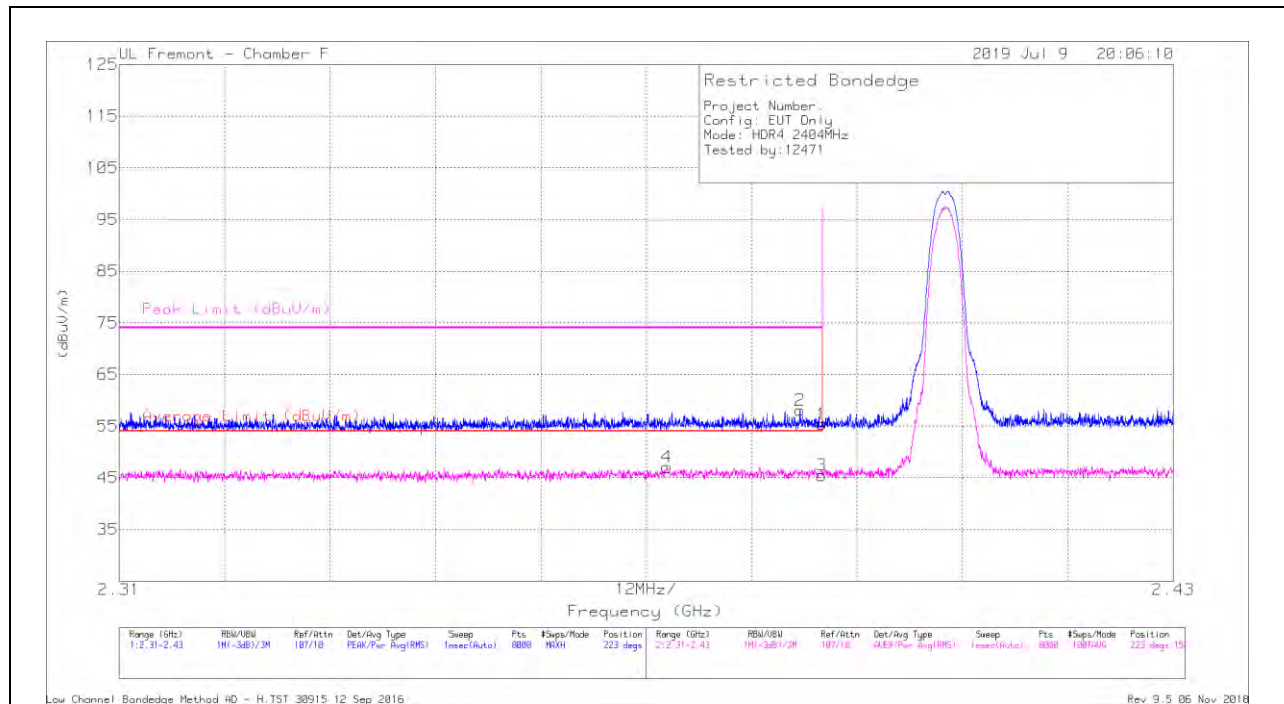
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Ftr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.685	41.69	PK2	33.1	-30.2	0	44.59	-	-	74	-29.41	164	128	H
	* 3.685	30.27	MAv1	33.1	-30.2	0	33.17	54	-20.83	-	-	164	128	H
2	* 4.833	41.74	PK2	34.1	-30.4	0	45.44	-	-	74	-28.56	144	137	H
	* 4.834	30.8	MAv1	34	-30.4	0	34.4	54	-19.6	-	-	144	137	H
3	* 11.699	35.82	PK2	38.5	-23.3	0	51.02	-	-	74	-22.98	190	156	H
	* 11.699	24.65	MAv1	38.5	-23.3	0	39.85	54	-14.15	-	-	190	156	H
4	* 3.662	40.91	PK2	33.1	-29.6	0	44.41	-	-	74	-29.59	202	167	V
	* 3.66	29.86	MAv1	33.1	-29.6	0	33.36	54	-20.64	-	-	202	167	V
5	* 4.852	41.42	PK2	34	-30.4	0	45.02	-	-	74	-28.98	187	203	V
	* 4.851	30.38	MAv1	34	-30.4	0	33.98	54	-20.02	-	-	187	203	V
6	* 10.797	35.89	PK2	37.8	-22.2	0	51.49	-	-	74	-22.51	169	172	V
	* 10.796	24.46	MAv1	37.8	-22.2	0	40.06	54	-13.94	-	-	169	172	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Antenna 5**BANEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Ampl/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.87	Pk	32	-14.5	55.37	-	-	74	-18.63	223	158	H
2	* 2.388	40.64	Pk	31.9	-14.5	58.04	-	-	74	-15.96	223	158	H
3	* 2.39	27.98	RMS	32	-14.5	45.48	54	-8.52	-	-	223	158	H
4	* 2.372	29.58	RMS	31.9	-14.4	47.08	54	-6.92	-	-	223	158	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

UL Fremont - Chamber F

2019 Jul 9 19:57:46

Restricted Bandedge

Project Number:
Config: EUT Only
Mode: HDR4 2484MHz
Tested by: 12471

Peak Limit (dBu/m)

Average Limit (dBu/m)

2

4

3

12MHz/

2.31

2.43

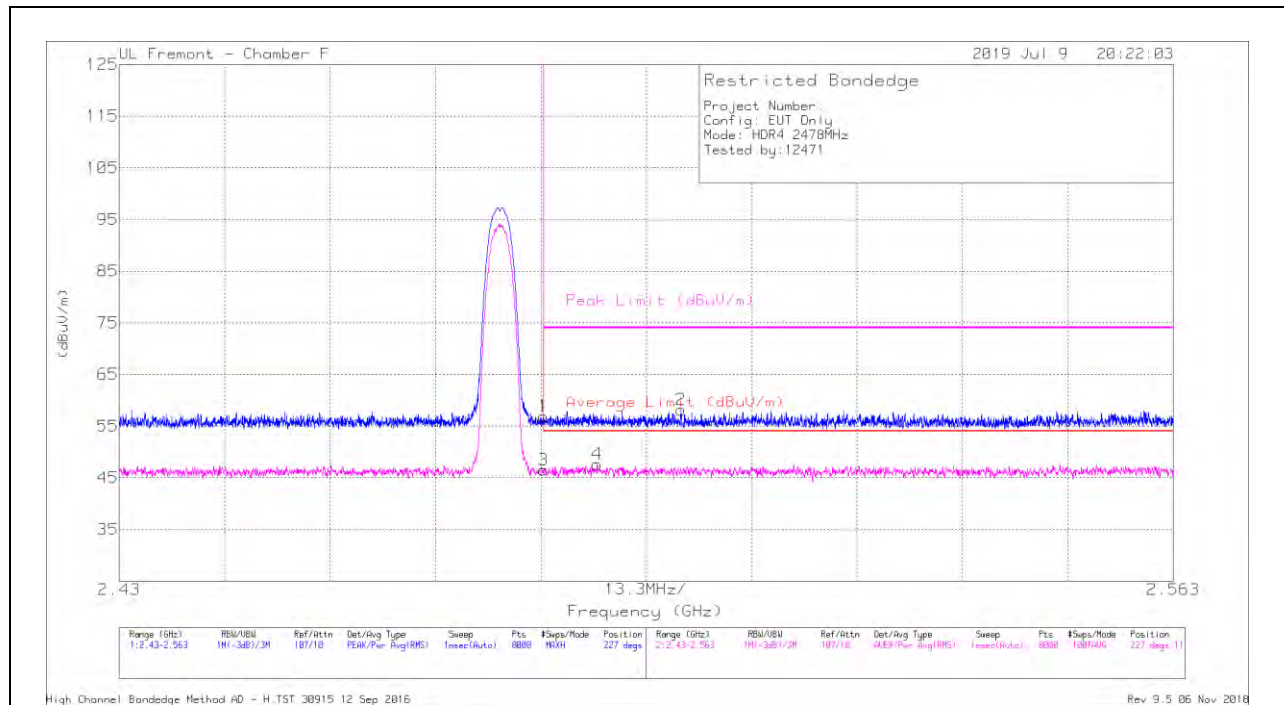
Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position	Range (GHz)	RBW/VBW	Ref/Att'n	Det/Avg Type	Sweep	Pts	#Sps/Mode	Position
1.2-2.4	10-300/10	107/10	FW/Freq Avg (RMS)	Linear/Normal	10000	9500	107 deg	2.2-2.43	10-300/10	107/10	FW/Freq Avg (RMS)	Linear/Normal	10000	10000	107 deg

Low Channel Bandedge Method 40 - U.TST 30915 12 Sep 2016

Rev 9.5 06 Nov 2018

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.42	Pk	32	-14.5	55.92	-	-	74	-18.08	187	101	V
2	* 2.328	40.71	Pk	31.7	-14.4	58.01	-	-	74	-15.99	187	101	V
3	* 2.39	28.56	RMS	32	-14.5	46.06	54	-7.94	-	-	187	101	V
4	* 2.326	30.21	RMS	31.7	-14.5	47.41	54	-6.59	-	-	187	101	V

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Ampl/Cbl/Filt /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.18	Pk	32.4	-14.7	56.88	-	-	74	-17.12	227	117	H
2	2.501	40.45	Pk	32.4	-14.7	58.15	-	-	74	-15.85	227	117	H
3	* 2.484	28.8	RMS	32.4	-14.7	46.5	54	-7.5	-	-	227	117	H
4	* 2.49	29.93	RMS	32.3	-14.6	47.63	54	-6.37	-	-	227	117	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection