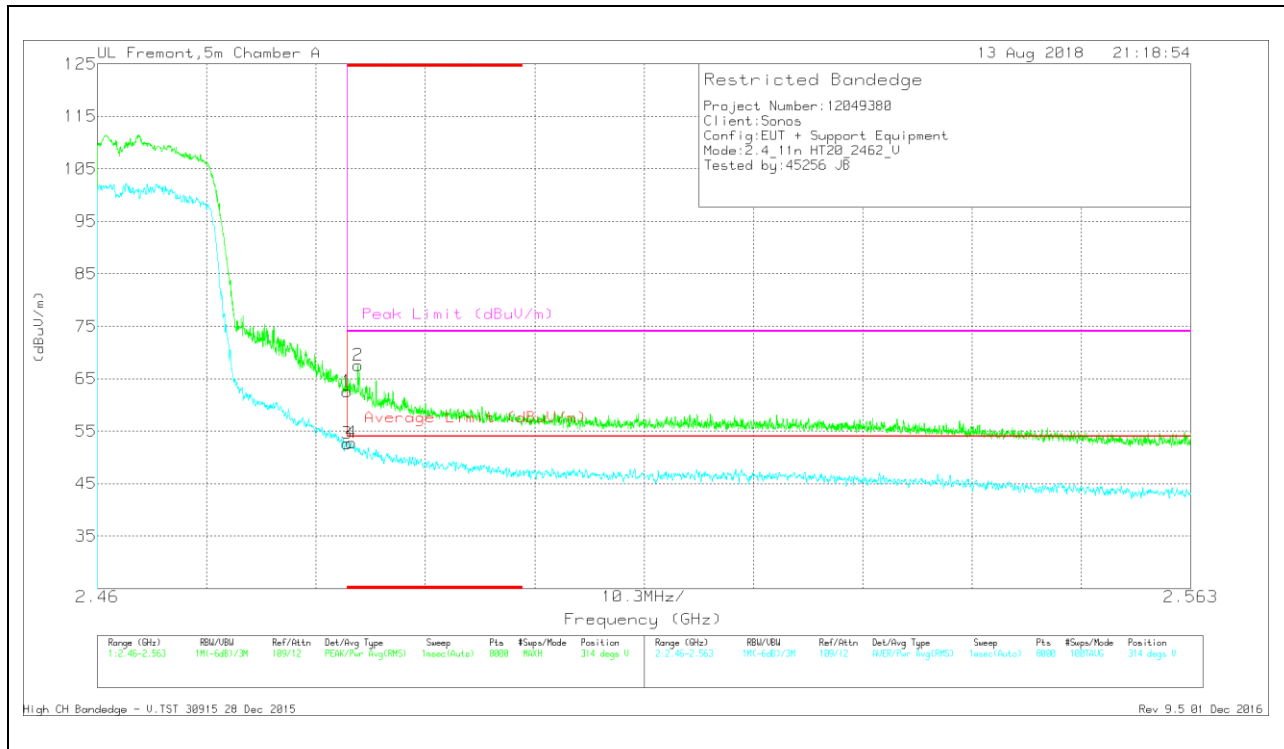


VERTICAL RESULT



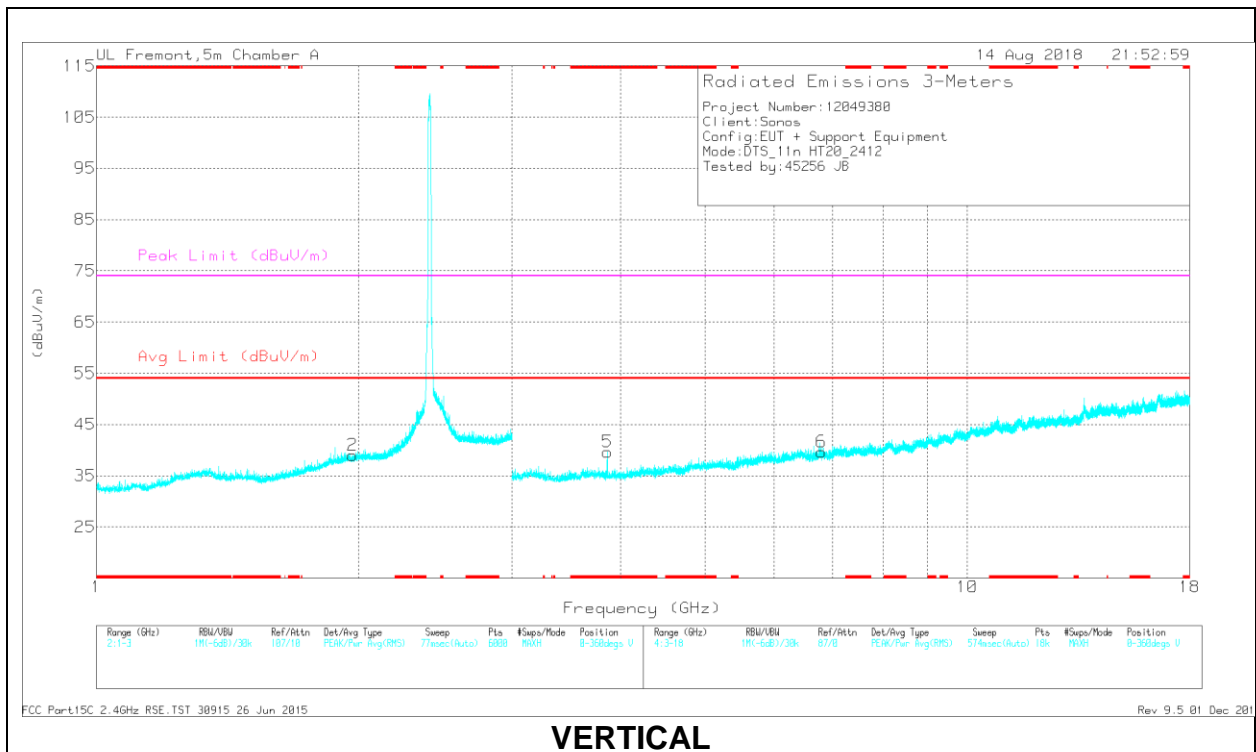
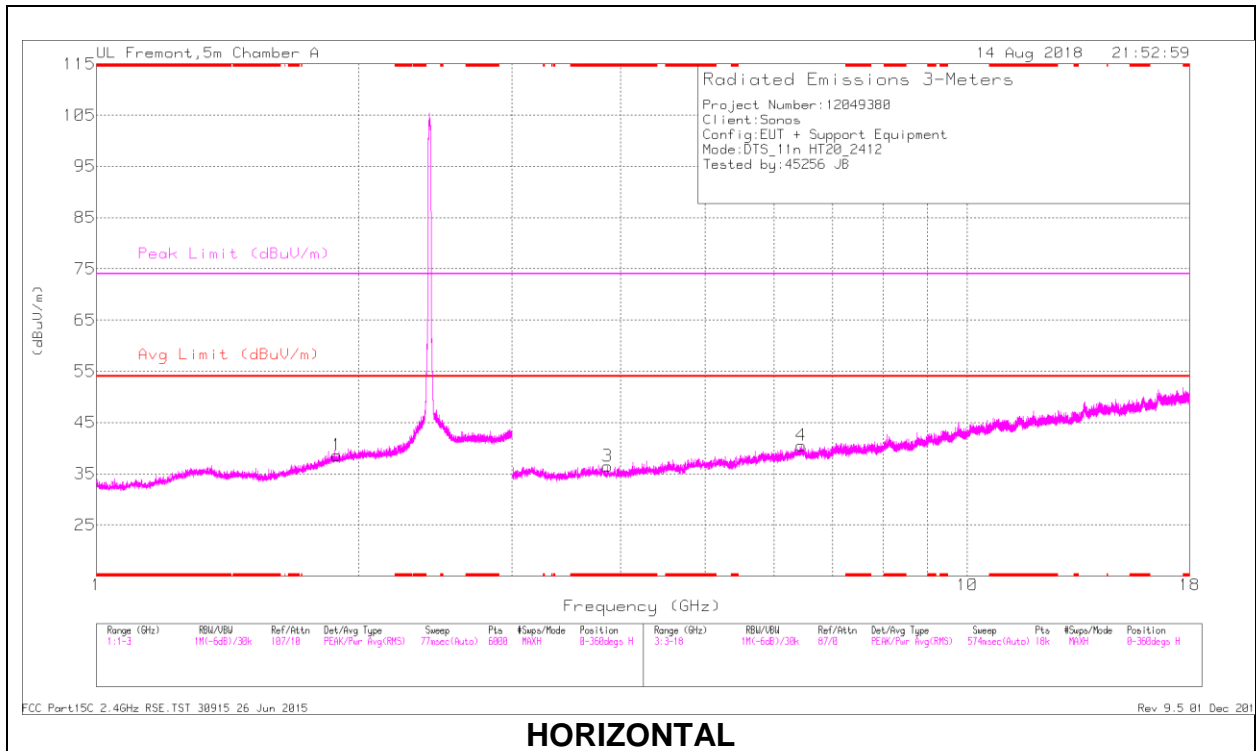
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/IFtr/Pad (dB)	DC Corr (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	53.19	Pk	32.3	-22.9	0	62.59	-	-	74	-11.41	314	181	V
3	* 2.484	42.89	RMS	32.3	-22.9	.32	52.61	54	-1.39	-	-	314	181	V
4	* 2.484	43.04	RMS	32.3	-22.9	.32	52.76	54	-1.24	-	-	314	181	V
2	* 2.485	58.18	Pk	32.3	-22.9	0	67.58	-	-	74	-6.42	314	181	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
3	* 3.859	31.48	Pk	33	-28	0	36.48	-	-	74	-	0-360	102	H
5	* 3.859	34.58	Pk	33	-28	0	39.58	-	-	74	-34.42	0-360	200	V
1	1.888	30.5	Pk	31	-22.9	0	38.6	-	-	-	-	0-360	199	H
2	1.97	30.62	Pk	31.4	-23	0	39.02	-	-	-	-	0-360	101	V
4	6.448	28.31	Pk	35.8	-23.6	0	40.51	-	-	-	-	0-360	199	H
6	6.804	27.07	Pk	35.5	-22.9	0	39.67	-	-	-	-	0-360	101	V

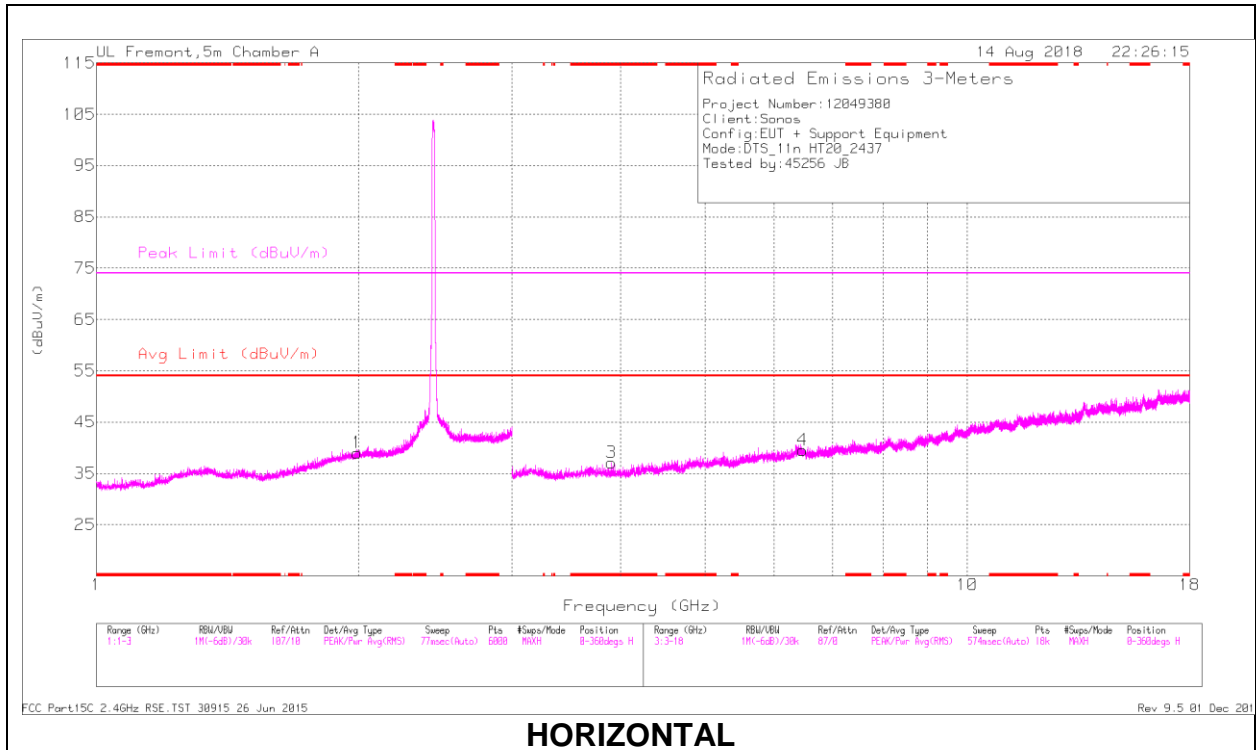
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

Radiated Emissions

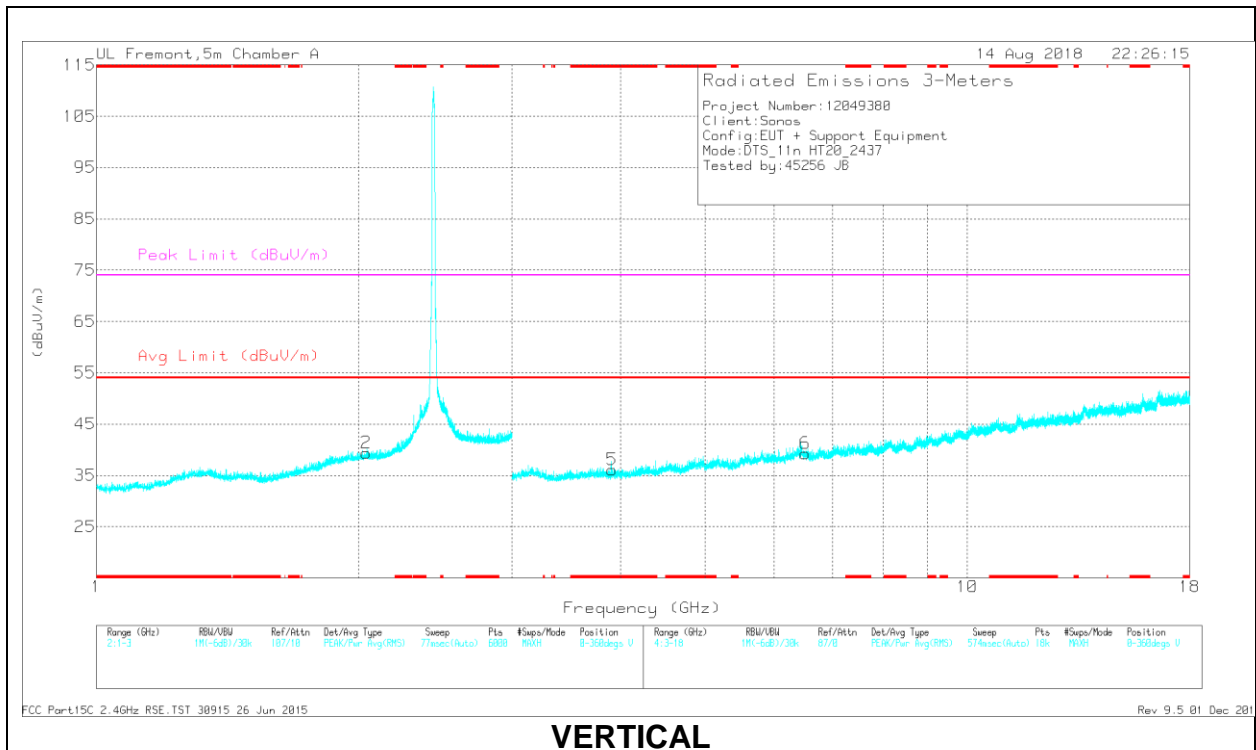
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.859	38.04	PK2	33	-28	0	43.04	-	-	74	-30.96	107	104	H
* 3.859	28.65	MAv1	33	-28	.32	33.97	54	-20.03	-	-	107	104	H
* 3.859	40.83	PK2	33	-28	0	45.83	-	-	74	-28.17	302	228	V
* 3.859	34.19	MAv1	33	-28	.32	39.51	54	-14.49	-	-	302	228	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, CH 6 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
3	* 3.899	32.04	Pk	33.1	-28	0	37.14	-	-	74	-36.86	0-360	101	H
5	* 3.908	30.83	Pk	33.1	-27.9	0	36.03	-	-	74	-37.97	0-360	200	V
1	1.992	30.64	Pk	31.4	-23	0	39.04	-	-	-	-	0-360	101	H
2	2.039	31.05	Pk	31.4	-23.1	0	39.35	-	-	-	-	0-360	200	V
4	6.468	27.41	Pk	35.7	-23.6	0	39.51	-	-	-	-	0-360	101	H
6	6.514	27.2	Pk	35.7	-23.7	0	39.2	-	-	-	-	0-360	200	V

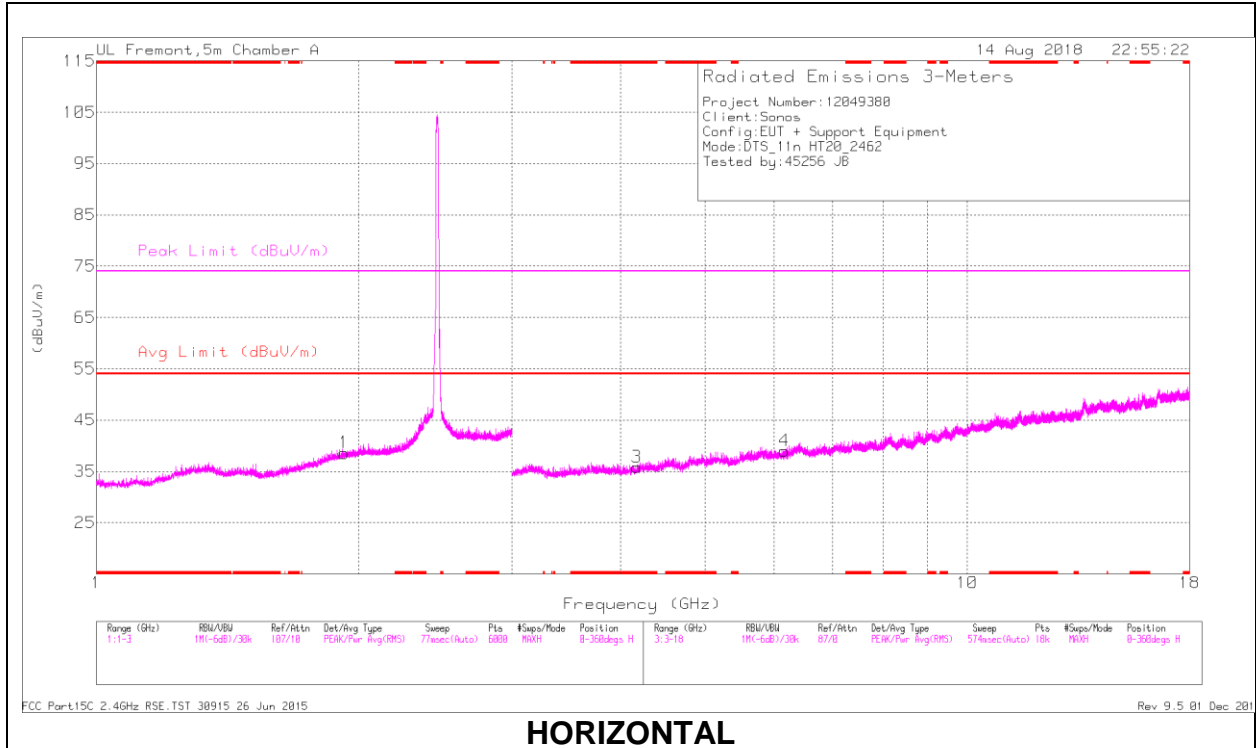
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

Radiated Emissions

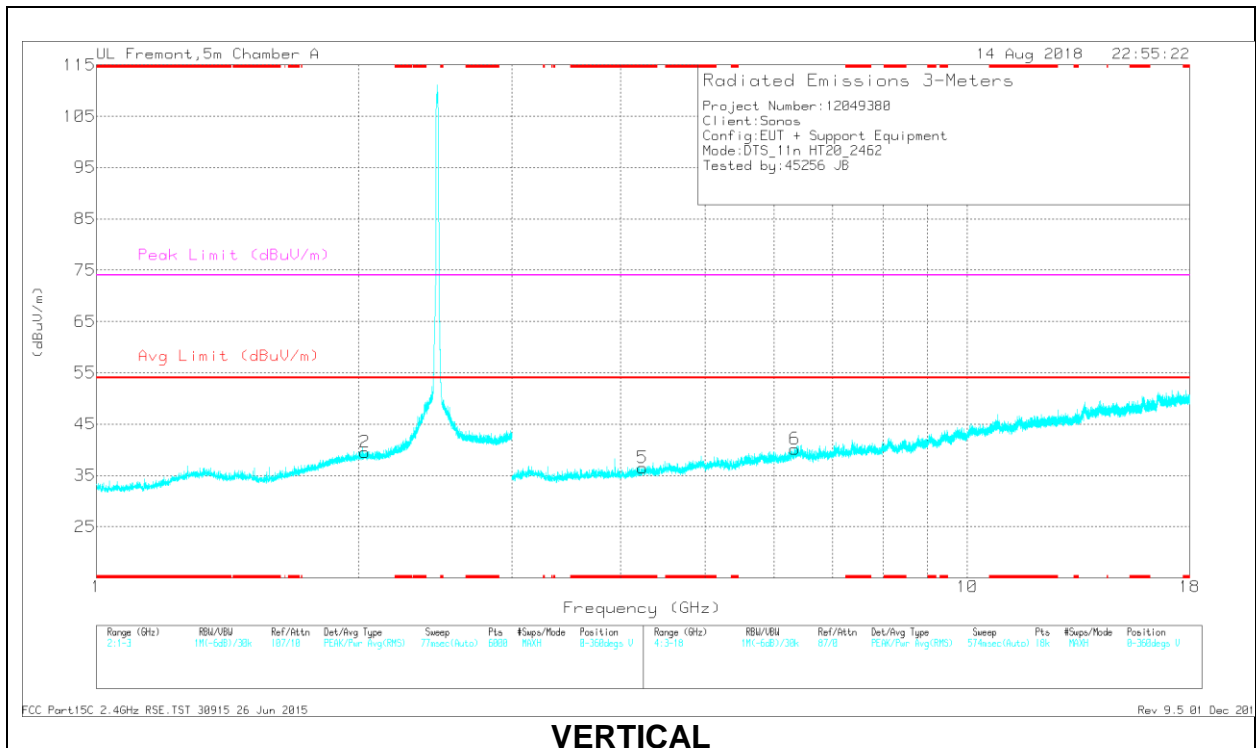
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.899	38.35	PK2	33.1	-28	0	43.45	-	-	74	-30.55	145	111	H
* 3.899	29	MAv1	33.1	-28	.32	34.42	54	-19.58	-	-	145	111	H
* 3.909	37.48	PK2	33.1	-27.9	0	42.68	-	-	74	-31.32	345	330	V
* 3.908	25.45	MAv1	33.1	-27.9	.32	30.97	54	-23.03	-	-	345	330	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, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/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
3	* 4.17	29.96	Pk	33.4	-27.5	0	35.86	-	-	74	-	0-360	102	H
5	* 4.241	29.82	Pk	33.5	-26.9	0	36.42	-	-	74	-37.58	0-360	200	V
1	1.923	30.16	Pk	31.2	-22.8	0	38.56	-	-	-	-	0-360	101	H
2	2.033	31.18	Pk	31.4	-23.1	0	39.48	-	-	-	-	0-360	101	V
4	6.169	27.81	Pk	35.6	-24.4	0	39.01	-	-	-	-	0-360	102	H
6	6.341	28.98	Pk	35.7	-24.5	0	40.18	-	-	-	-	0-360	101	V

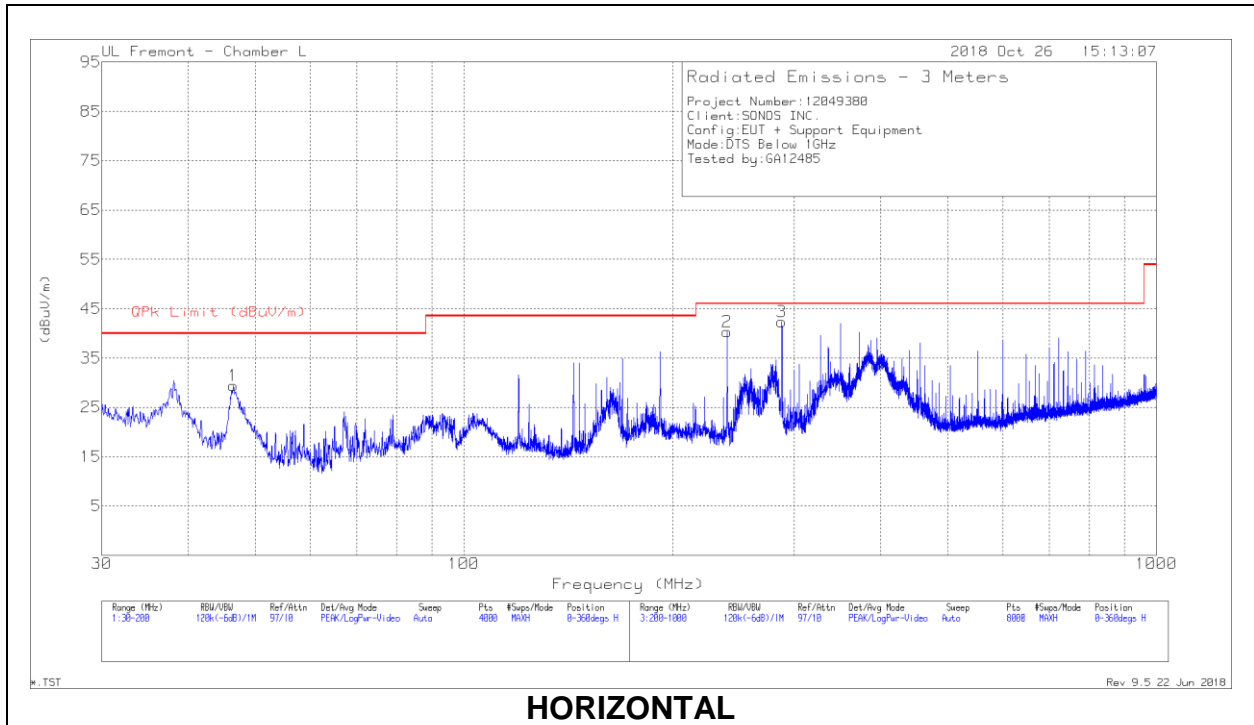
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

Radiated Emissions

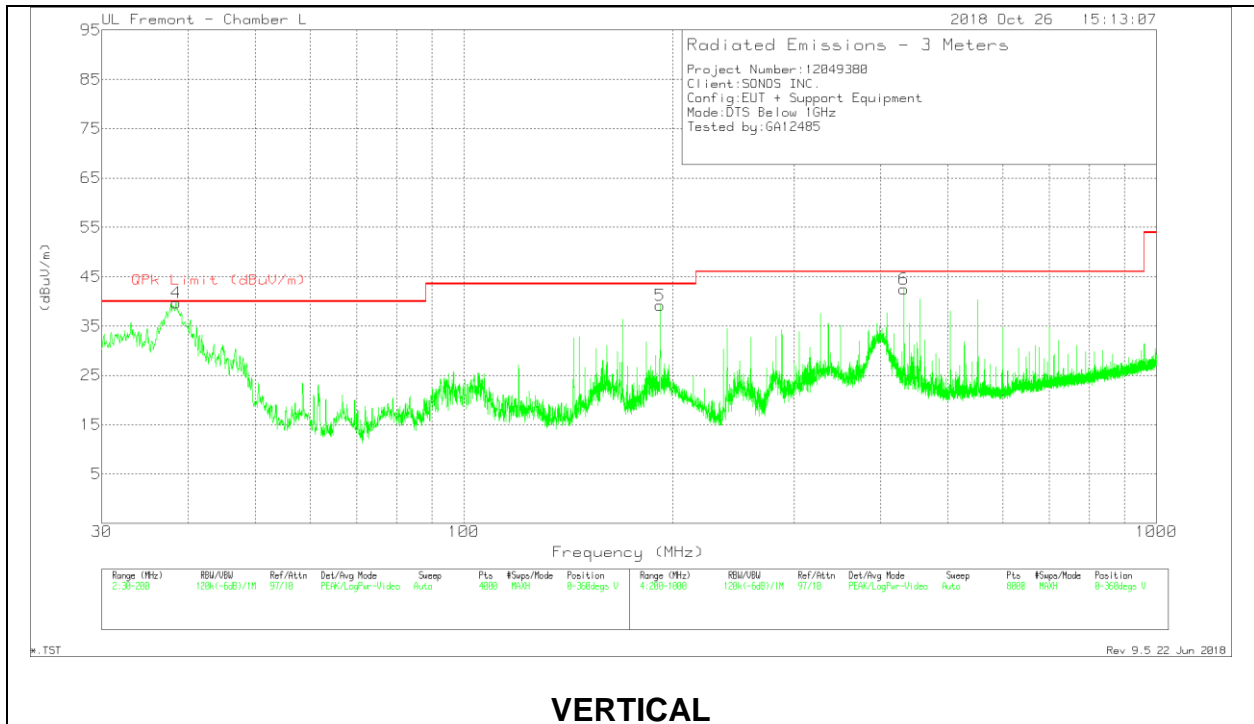
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.171	36.73	PK2	33.4	-27.5	0	42.63	-	-	74	-31.37	64	238	H
* 4.169	25.01	MAv1	33.4	-27.5	.32	31.23	54	-22.77	-	-	64	238	H
* 4.24	36.55	PK2	33.5	-26.9	0	43.15	-	-	74	-30.85	113	247	V
* 4.243	24.79	MAv1	33.5	-26.9	.32	31.71	54	-22.29	-	-	113	247	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2. Worst Case Below 1 GHz



HORIZONTAL



VERTICAL

Below 1GHz DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181574 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.4518	45.56	Pk	15.3	-31.4	29.46	40	-10.54	0-360	399	H
4	38.4172	50.46	Pk	20.7	-31.5	39.66	40	-.34	0-360	100	V
5	191.9244	52.14	Pk	17.5	-30.5	39.14	43.52	-4.38	0-360	100	V
2	239.9052	52.95	Pk	17.5	-30.1	40.35	46.02	-5.67	0-360	100	H
3	287.9114	52.95	Pk	19.2	-29.8	42.35	46.02	-3.67	0-360	100	H
6	431.9301	49.57	Pk	22.5	-29.6	42.47	46.02	-3.55	0-360	100	V

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

Pk - Peak detector

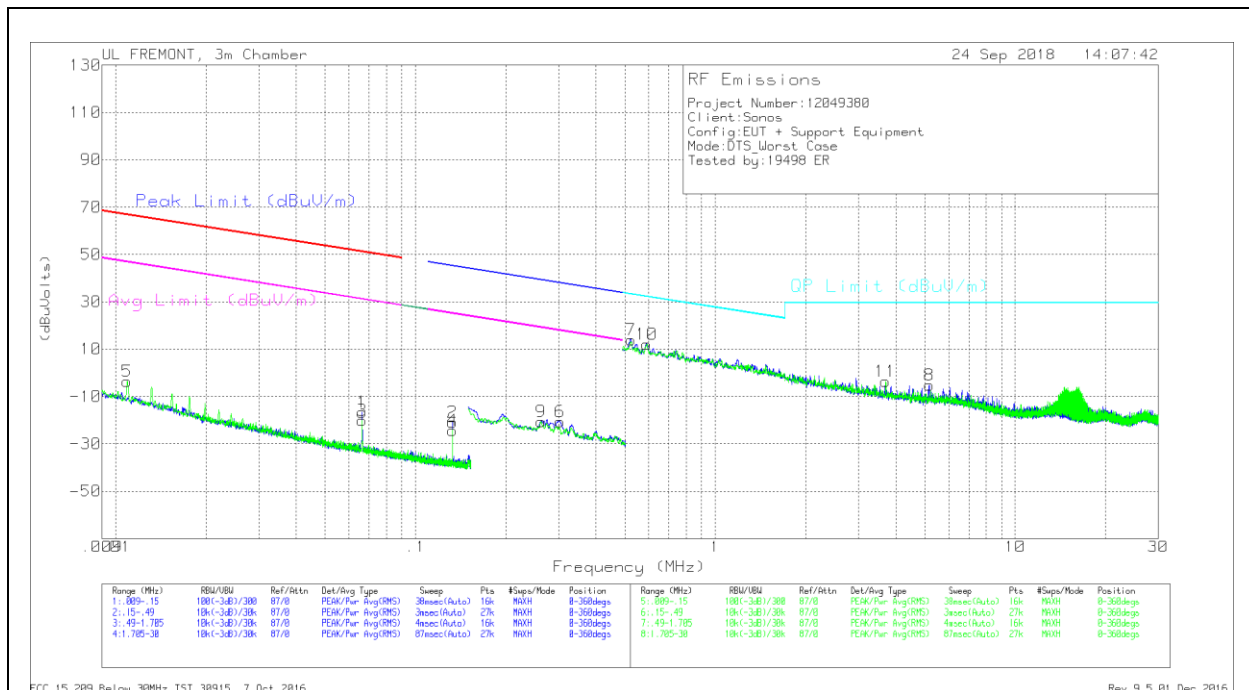
Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181574 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
46.3099	42.6	Qp	15.3	-31.4	26.5	40	-13.5	316	378	H
38.376	46.36	Qp	20.7	-31.5	35.56	40	-4.44	319	111	V
191.9234	51.45	Qp	17.5	-30.5	38.45	43.52	-5.07	132	100	V
239.9939	51.42	Qp	17.5	-30.1	38.82	46.02	-7.2	187	109	H
288.0064	52.71	Qp	19.2	-29.8	42.11	46.02	-3.91	220	103	H
432.0222	48.26	Qp	22.5	-29.6	41.16	46.02	-4.86	147	108	V

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

Qp - Quasi-Peak detector

10.3. Worst Case Below 30 MHz



NOTE: KDB 414788 OATS and Chamber Correlation Justification

- Based 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.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Below 30MHz DATA

Trace Markers

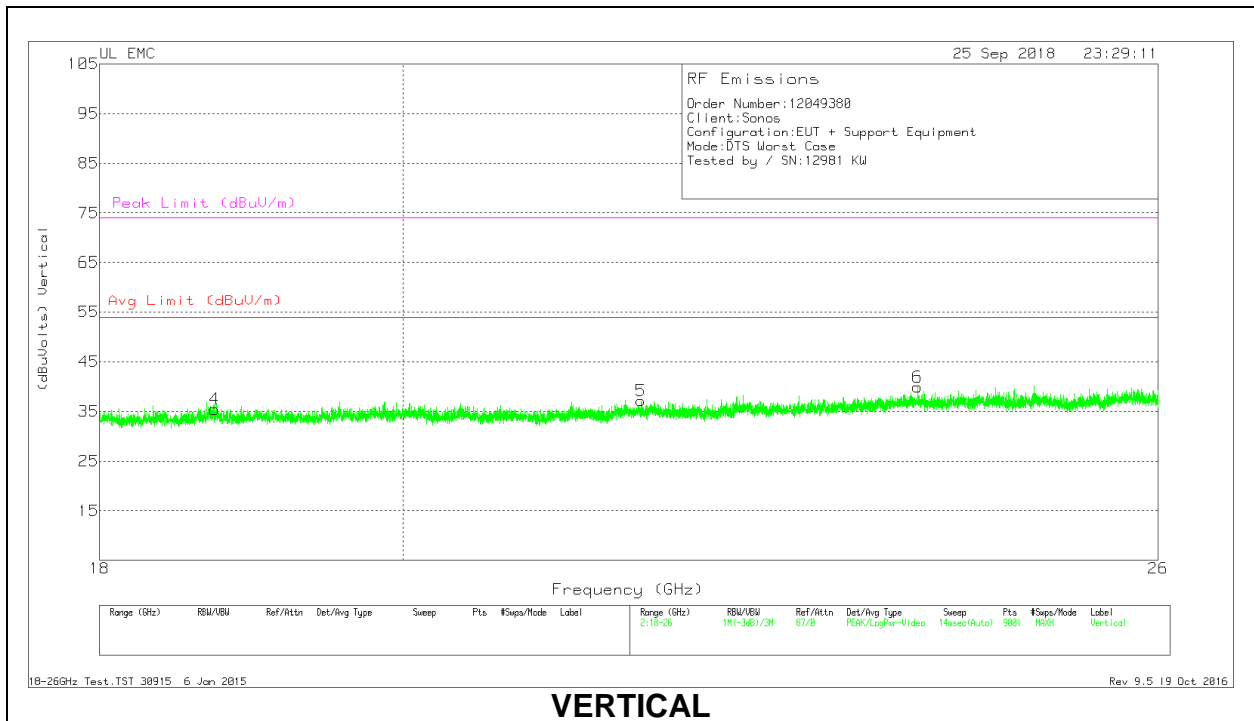
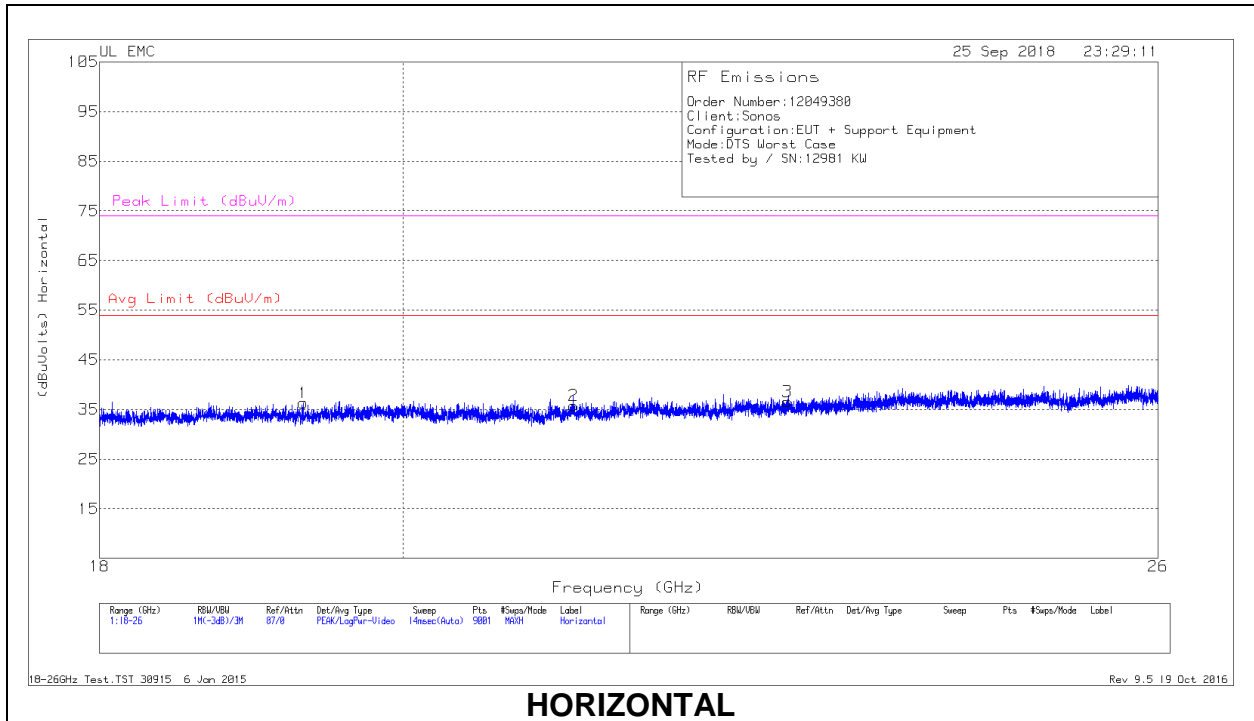
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.01094	56.44	Pk	18.5	1.4	-80	-3.66	66.81	-70.47	46.81	-50.47	0-360
3	.06634	46.43	Pk	12	1.4	-80	-20.17	51.15	-71.32	31.15	-51.32	0-360
1	.06635	50.05	Pk	12	1.4	-80	-16.55	51.15	-67.7	31.15	-47.7	0-360
2	.13287	46.02	Pk	11.8	1.4	-80	-20.78	45.16	-65.94	25.16	-45.94	0-360
4	.13289	42.38	Pk	11.8	1.4	-80	-24.42	45.16	-69.58	25.16	-49.58	0-360
9	.2623	46.2	Pk	11.7	1.5	-80	-20.6	39.24	-59.84	19.24	-39.84	0-360
6	.30317	46.15	Pk	11.7	1.5	-80	-20.65	37.98	-58.63	17.98	-38.63	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	.52268	40.84	Pk	11.7	1.5	-40	14.04	33.24	-19.2	0-360
10	.59051	38.91	Pk	11.7	1.5	-40	12.11	32.18	-20.07	0-360
11	3.6983	23.14	Pk	11.7	1.5	-40	-3.66	29.5	-33.16	0-360
8	5.16445	21.68	Pk	11.5	1.5	-40	-5.32	29.5	-34.82	0-360

Pk - Peak detector

10.4. Worst Case 18-26 GHz



18 – 26GHz DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.321	38.42	Pk	32.4	-25	-9.5	36.32	54	-17.68	74	-37.68
2	21.222	37.09	Pk	33.1	-24.9	-9.5	35.79	54	-18.21	74	-38.21
3	22.857	37.68	Pk	33.3	-24.9	-9.5	36.58	54	-17.42	74	-37.42
4	18.732	37.13	Pk	32.5	-24.7	-9.5	35.43	54	-18.57	74	-38.57
5	21.724	38.26	Pk	33.3	-24.9	-9.5	37.16	54	-16.84	74	-36.84
6	23.916	39.94	Pk	33.4	-23.9	-9.5	39.94	54	-14.06	74	-34.06

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

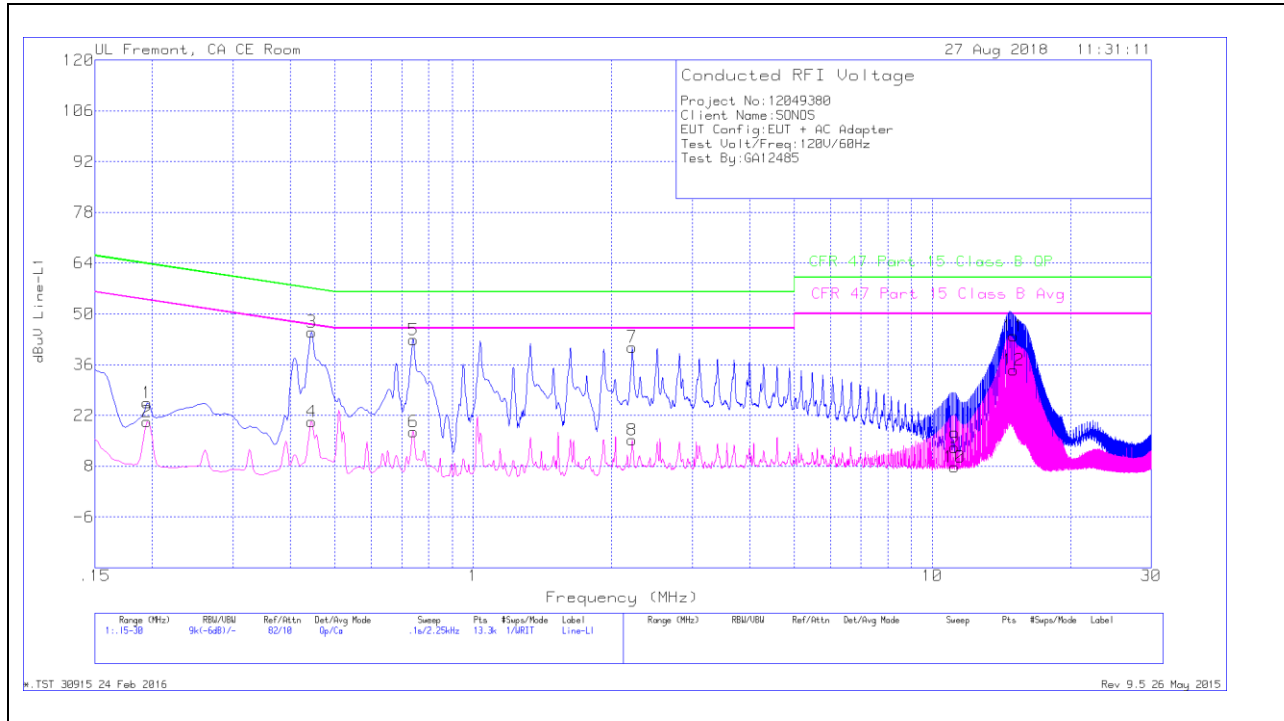
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1.1. AC Power Line Norm

LINE 1 RESULTS

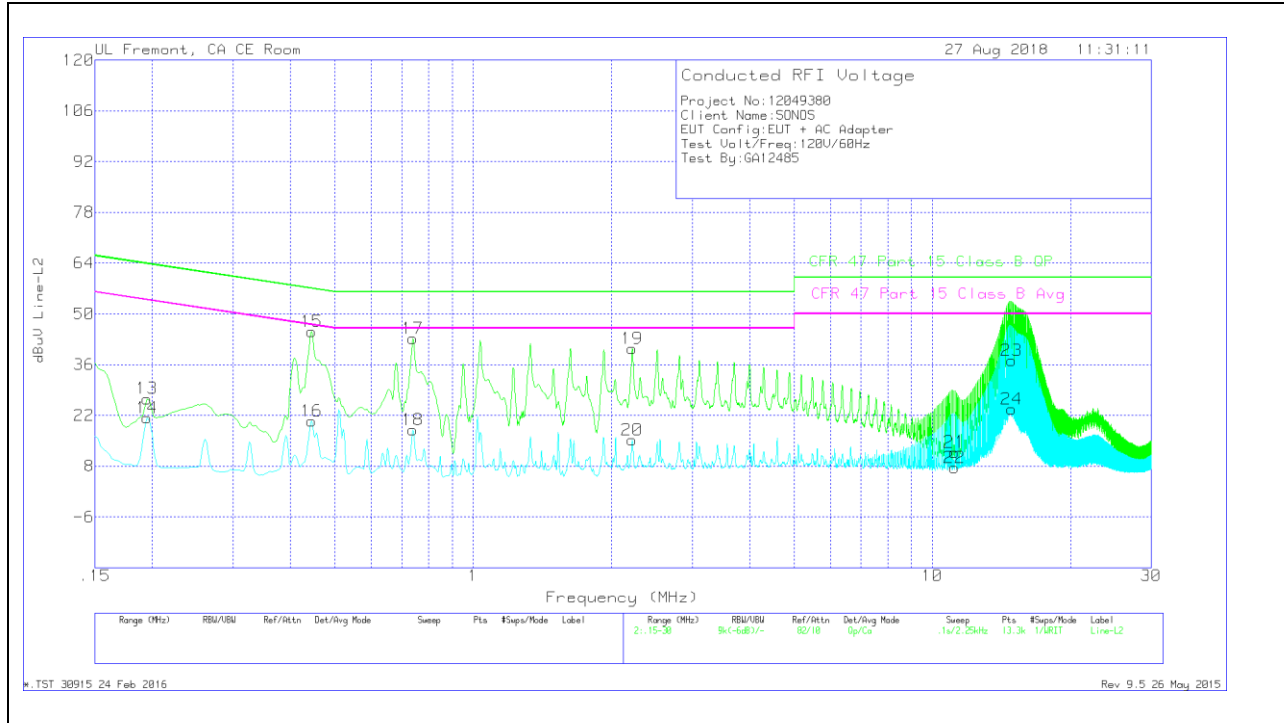


Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.195	15.46	Qp	0	0	10.1	25.56	63.82	-38.26	-	-
2	.195	10.19	Ca	0	0	10.1	20.29	-	-	53.82	-33.53
3	.44475	34.94	Qp	0	0	10.1	45.04	56.97	-11.93	-	-
4	.44475	10.25	Ca	0	0	10.1	20.35	-	-	46.97	-26.62
5	.74175	32.73	Qp	0	0	10.1	42.83	56	-13.17	-	-
6	.74175	7.39	Ca	0	0	10.1	17.49	-	-	46	-28.51
7	2.22	30.67	Qp	0	.1	10.1	40.87	56	-15.13	-	-
8	2.22	5.08	Ca	0	.1	10.1	15.28	-	-	46	-30.72
9	11.18625	2.6	Qp	.1	.2	10.2	13.1	60	-46.9	-	-
10	11.193	-2.74	Ca	.1	.2	10.2	7.76	-	-	50	-42.24
11	15.04725	33.39	Qp	.1	.3	10.2	43.99	60	-16.01	-	-
12	15.04725	23.87	Ca	.1	.3	10.2	34.47	-	-	50	-15.53

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.195	16.52	Qp	0	0	10.1	26.62	63.82	-37.2	-	-
14	.195	11.15	Ca	0	0	10.1	21.25	-	-	53.82	-32.57
15	.44475	35.06	Qp	0	0	10.1	45.16	56.97	-11.81	-	-
16	.44475	10.31	Ca	0	0	10.1	20.41	-	-	46.97	-26.56
17	.7395	33.13	Qp	0	0	10.1	43.23	56	-12.77	-	-
18	.7395	7.87	Ca	0	0	10.1	17.97	-	-	46	-28.03
19	2.22	30.25	Qp	0	.1	10.1	40.45	56	-15.55	-	-
20	2.22	5	Ca	0	.1	10.1	15.2	-	-	46	-30.8
21	11.193	1.34	Qp	.1	.2	10.2	11.84	60	-48.16	-	-
22	11.193	-2.92	Ca	.1	.2	10.2	7.58	-	-	50	-42.42
23	14.90325	26.54	Qp	.1	.3	10.2	37.14	60	-22.86	-	-
24	14.9055	13.13	Ca	.1	.3	10.2	23.73	-	-	50	-26.27

Qp - Quasi-Peak detector
 Ca - CISPR average detection