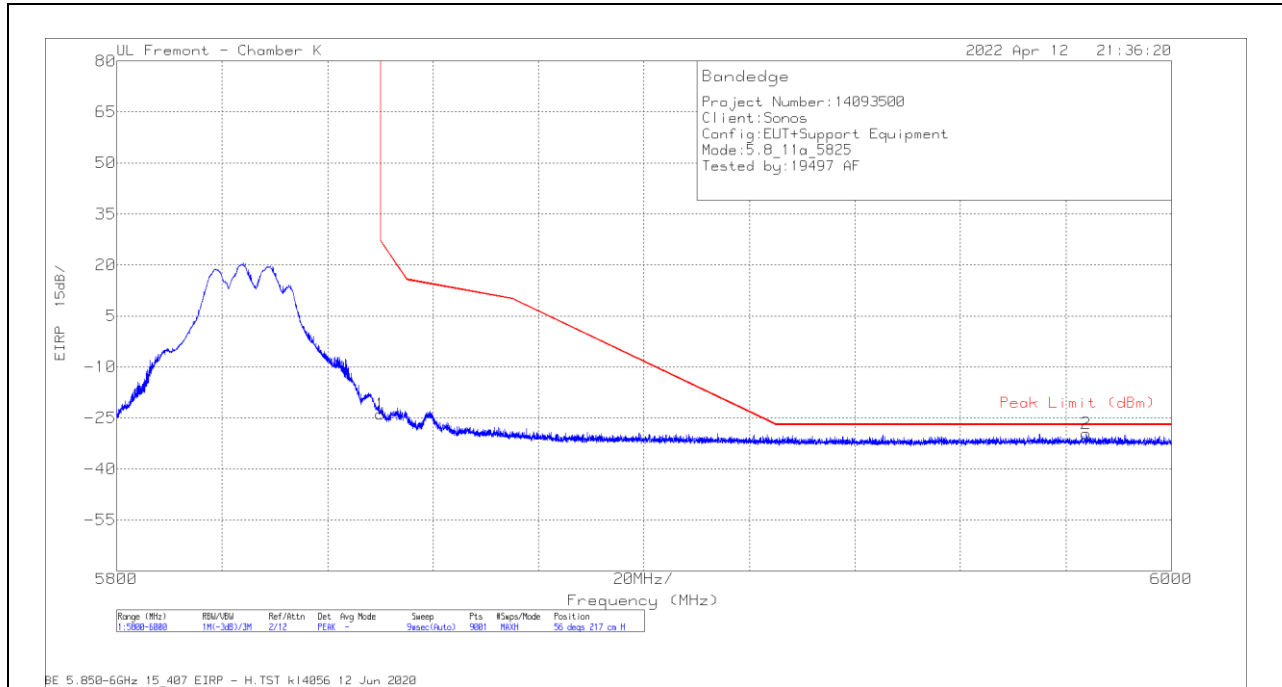


BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

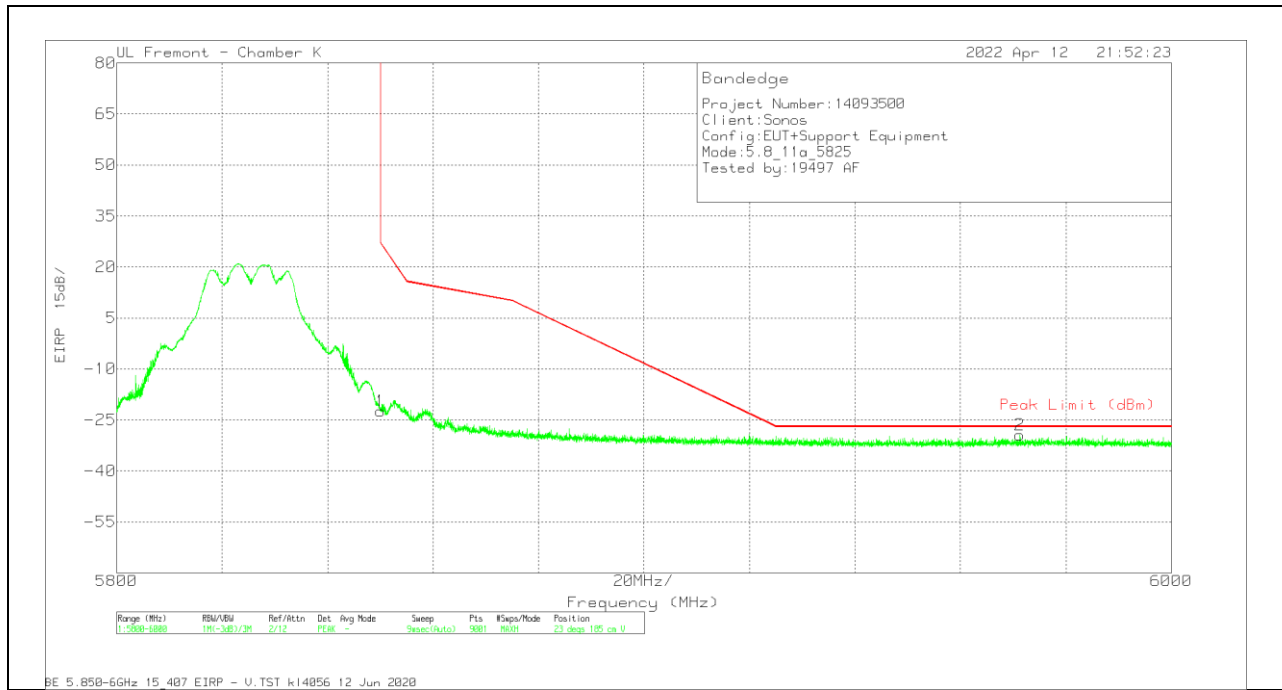


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-64.82	PK	35.1	-5.9	11.8	-23.82	27	-50.82	56	217	H
2	5983.843	-71.27	PK	35.4	-5.5	11.8	-29.57	-27	-2.57	56	217	H

Pk - Peak detector

VERTICAL RESULT



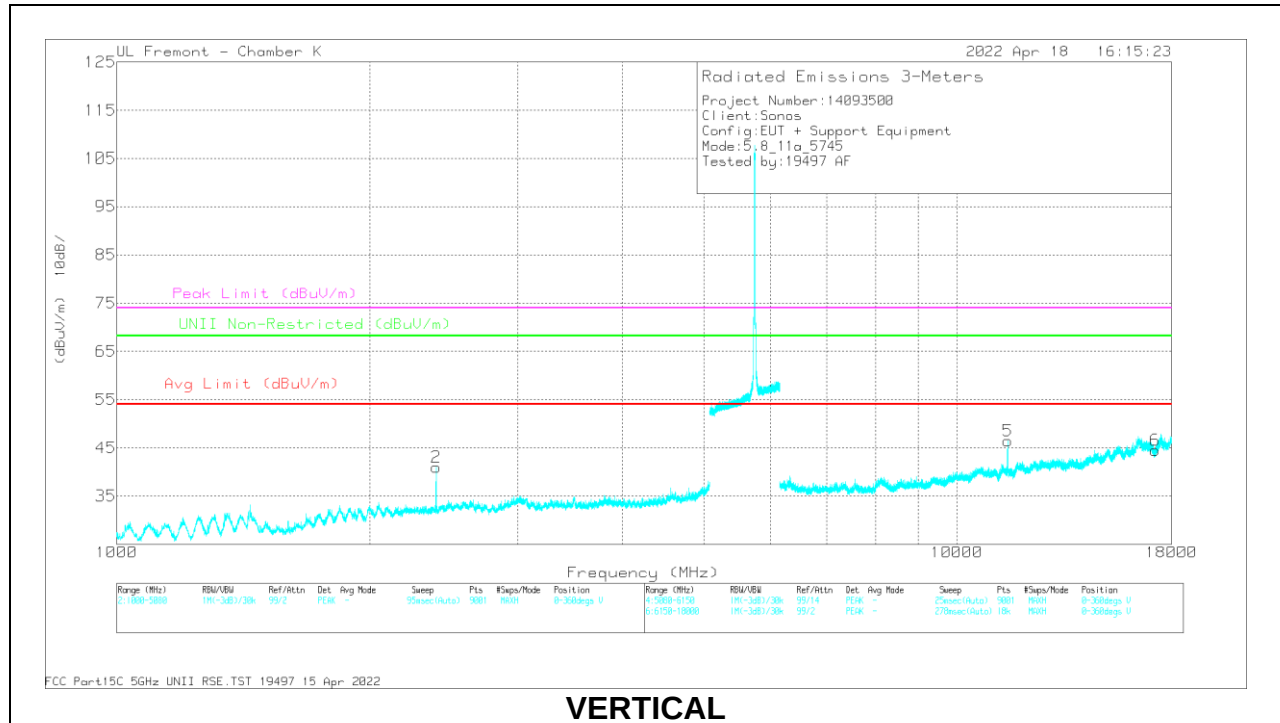
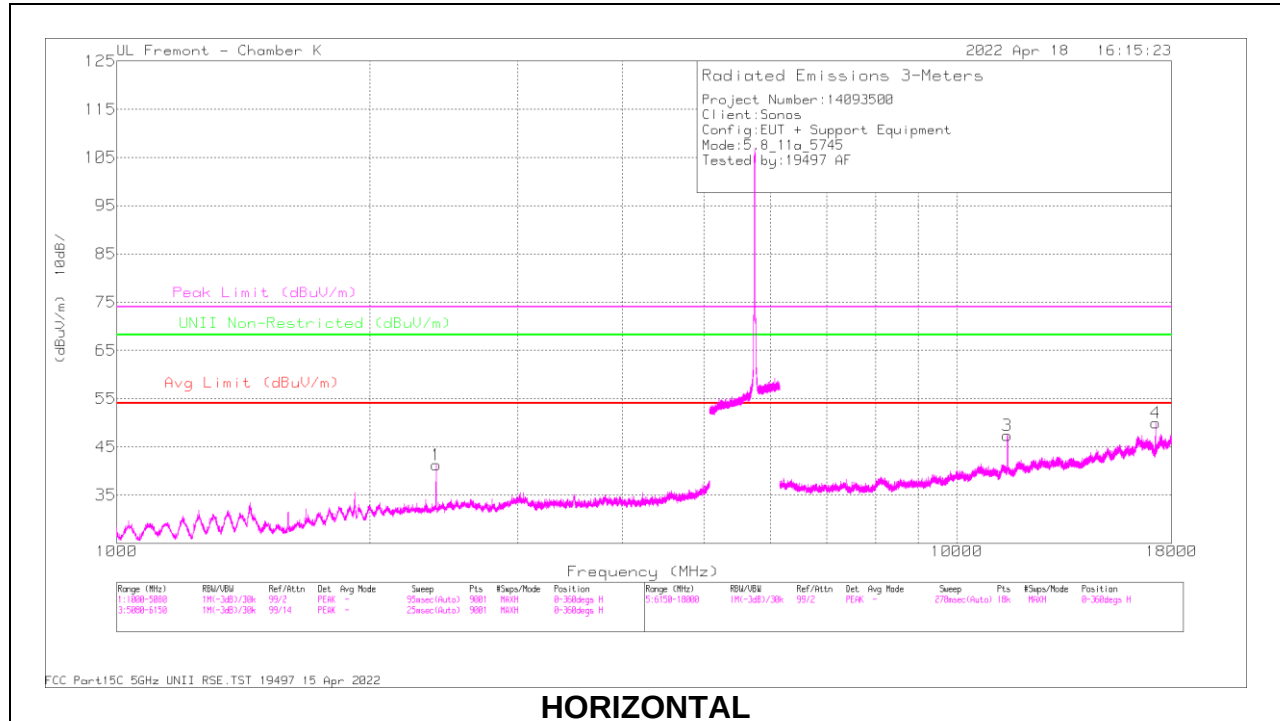
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-63.47	PK	35.1	-5.9	11.8	-22.47	27	-49.47	23	185	V
2	5971.243	-71.11	PK	35.4	-5.5	11.8	-29.41	-27	-2.41	23	185	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

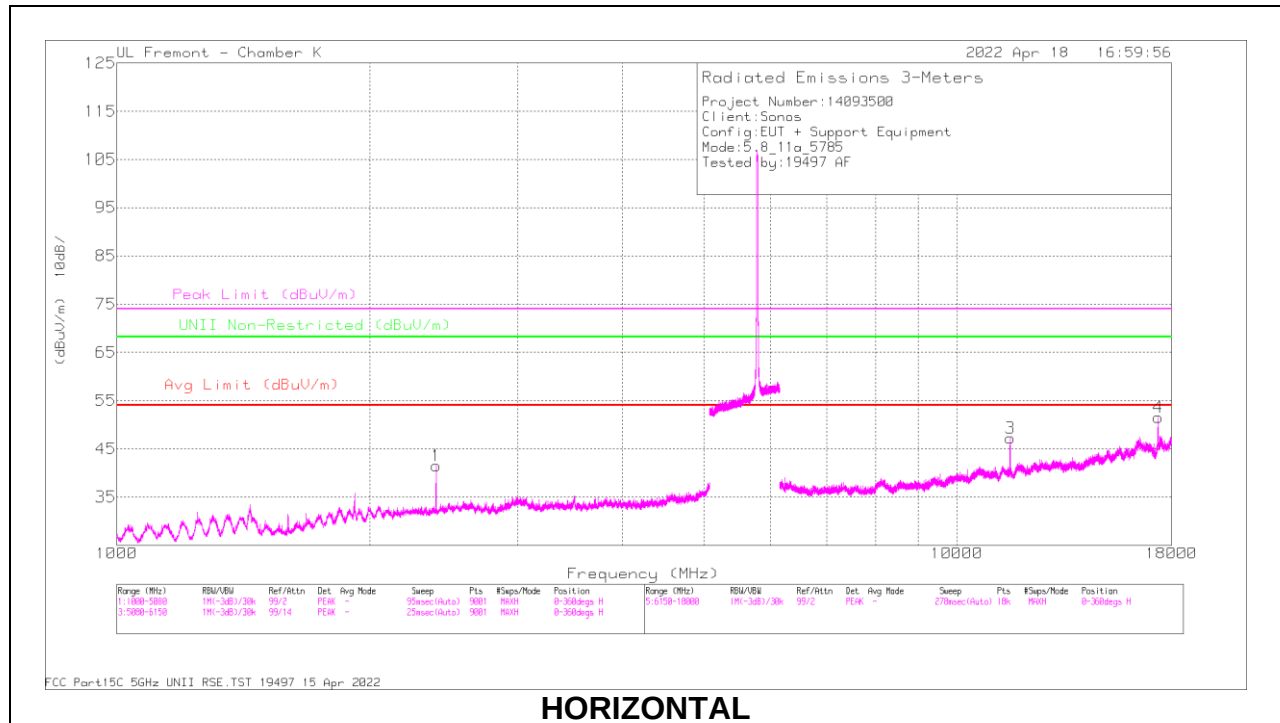
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2399.661	68.43	PK-U	32	-44.4	0	56.03	-	-	-	-	68.2	-12.17	49	199	H
2	2400.188	60.58	PK-U	32	-44.4	0	48.18	-	-	-	-	68.2	-20.02	23	123	V
3	* 11486.643	57.34	PK-U	38.3	-35.1	0	60.54	-	-	74	-13.46	-	-	71	205	H
	* 11487.051	43.6	ADR	38.3	-35.1	1.04	47.84	54	-6.16	-	-	-	-	71	205	H
4	17236.646	52.26	PK-U	41.3	-31.5	0	62.06	-	-	-	-	68.2	-6.14	11	202	H
5	* 11488.261	54.56	PK-U	38.3	-35	0	57.66	-	-	74	-16.14	-	-	259	98	V
	* 11488.061	41.54	ADR	38.3	-35	1.04	45.88	54	-8.12	-	-	-	-	259	98	V
6	17221.904	45.7	PK-U	41.3	-31.2	0	55.8	-	-	-	-	68.2	-12.4	329	158	V

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

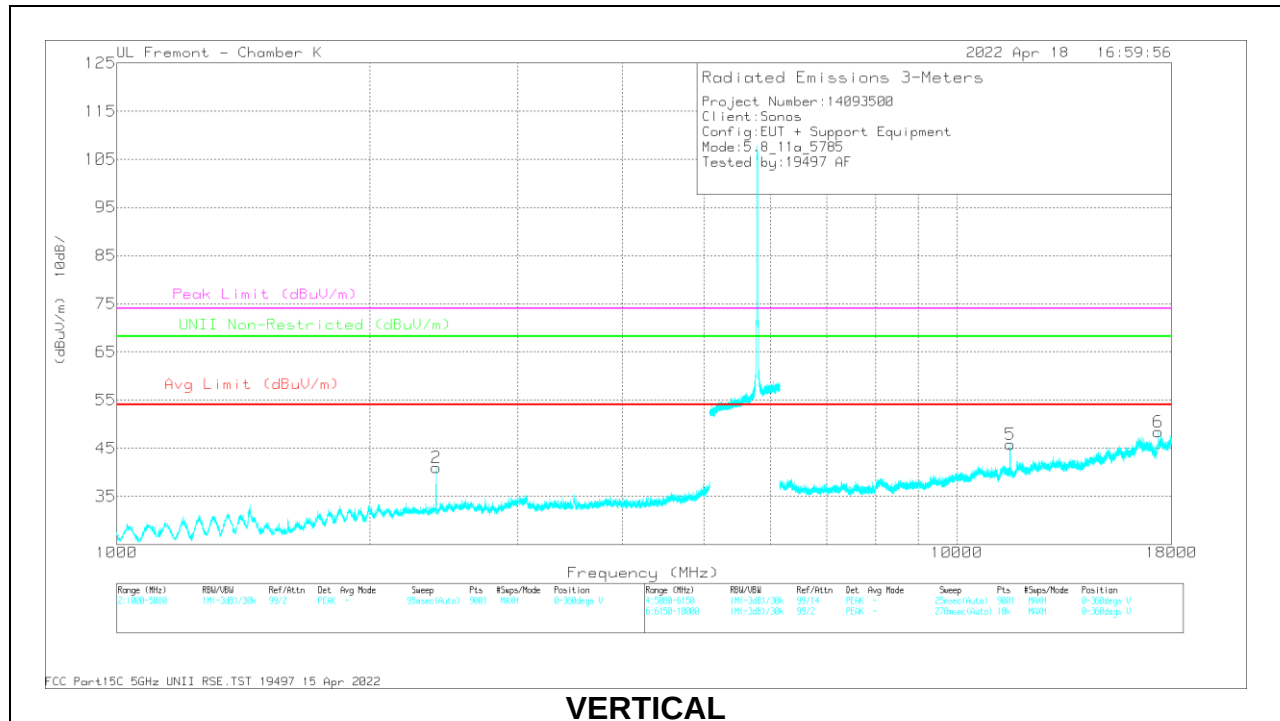
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

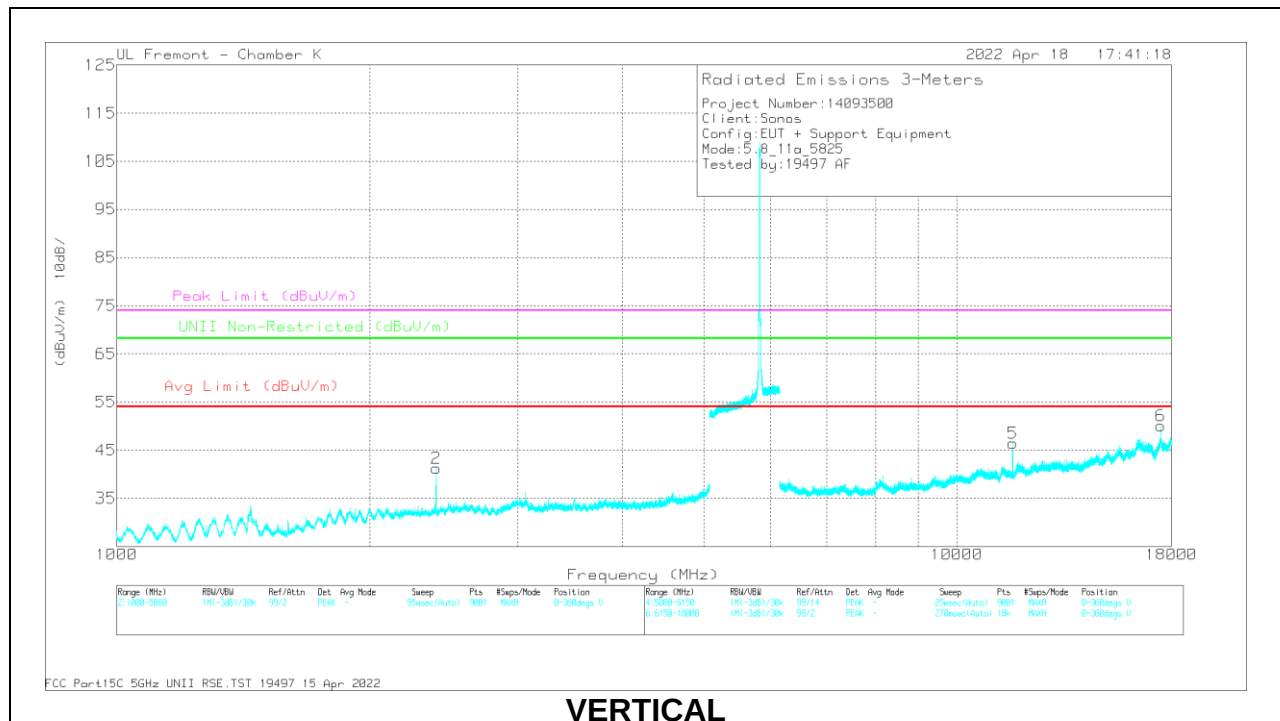
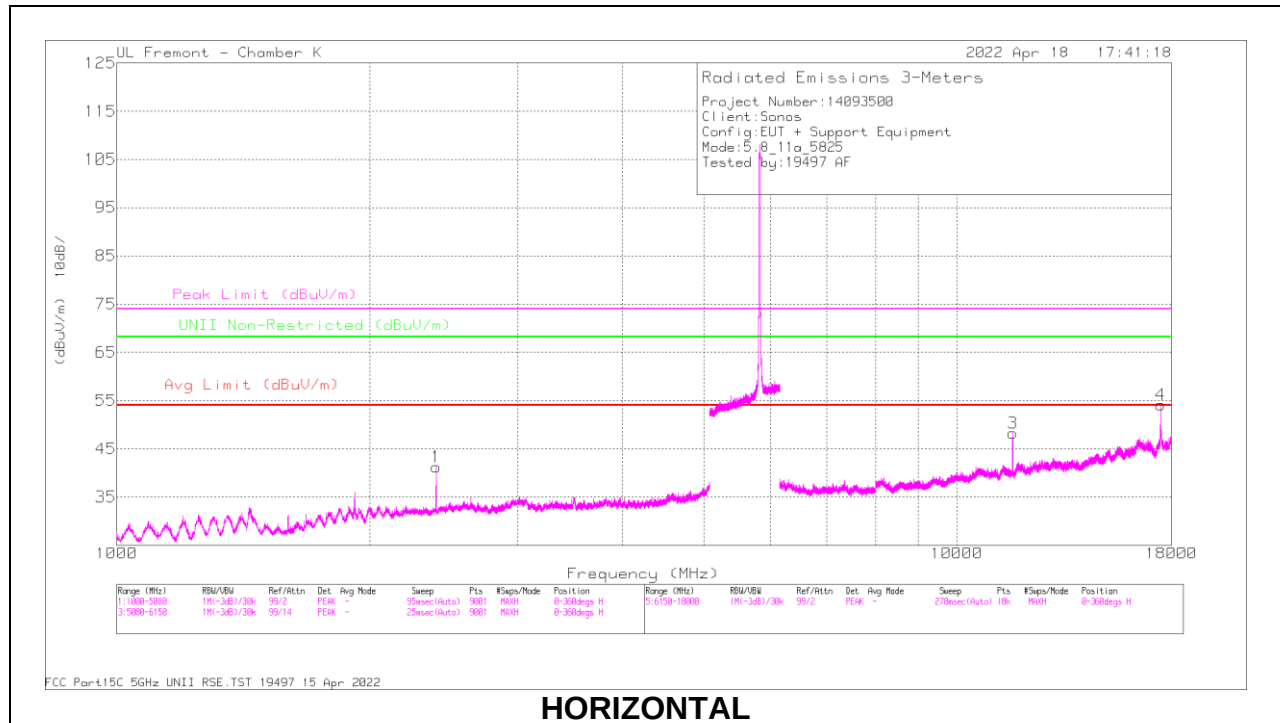
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2400.04	61.88	PK-U	32	-44.4	0	49.48	-	-	-	-	68.2	-18.72	143	291	H
2	2400.524	61.86	PK-U	32	-44.4	0	49.46	-	-	-	-	68.2	-18.74	20	108	V
3	* 11569.53	56.64	PK-U	38.4	-34.7	0	60.34	-	-	74	-13.66	-	-	79	202	H
	* 11569.641	43.69	ADR	38.4	-34.7	1.04	48.43	54	-5.57	-	-	-	-	79	202	H
4	17353.243	52.75	PK-U	41.4	-30.9	0	63.25	-	-	-	-	68.2	-4.95	15	112	H
5	* 11568.769	53.01	PK-U	38.4	-34.7	0	56.71	-	-	74	-17.29	-	-	176	139	V
	* 11568.282	40.3	ADR	38.4	-34.7	1.04	45.04	54	-8.96	-	-	-	-	176	139	V
6	17361.083	50.34	PK-U	41.5	-30.7	0	61.14	-	-	-	-	68.2	-7.06	76	176	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2399.812	61.76	PK-U	32	-44.4	0	49.36	-	-	-	-	68.2	-18.84	47	224	H
2	2399.844	67.88	PK-U	32	-44.4	0	55.48	-	-	-	-	68.2	-12.72	6	137	V
3	* 11649.954	57.07	PK-U	38.5	-34.5	0	61.07	-	-	74	-12.93	-	-	80	200	H
	* 11649.702	44.29	ADR	38.5	-34.5	1.04	49.33	54	-4.67	-	-	-	-	80	200	H
4	17478.656	54.95	PK-U	41.5	-30.2	0	66.25	-	-	-	-	68.2	-1.95	13	100	H
5	* 11649.689	53.87	PK-U	38.5	-34.5	0	57.67	-	-	74	-16.13	-	-	178	113	V
	* 11649.645	41.47	ADR	38.5	-34.5	1.04	46.51	54	-7.49	-	-	-	-	178	113	V
6	17476.581	51.25	PK-U	41.5	-30.2	0	62.55	-	-	-	-	68.2	-5.65	61	190	V

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

PK-U - U-NII: Maximum Peak

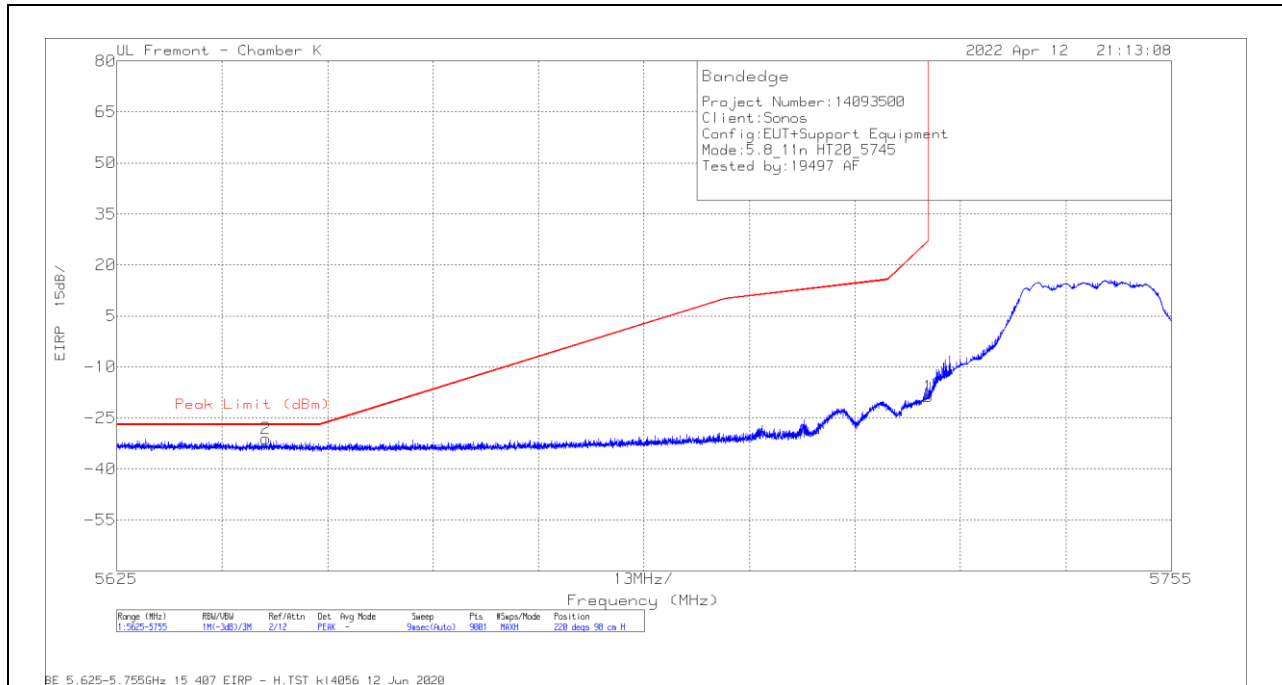
ADR - U-NII AD primary method, RMS average

10.1.14. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

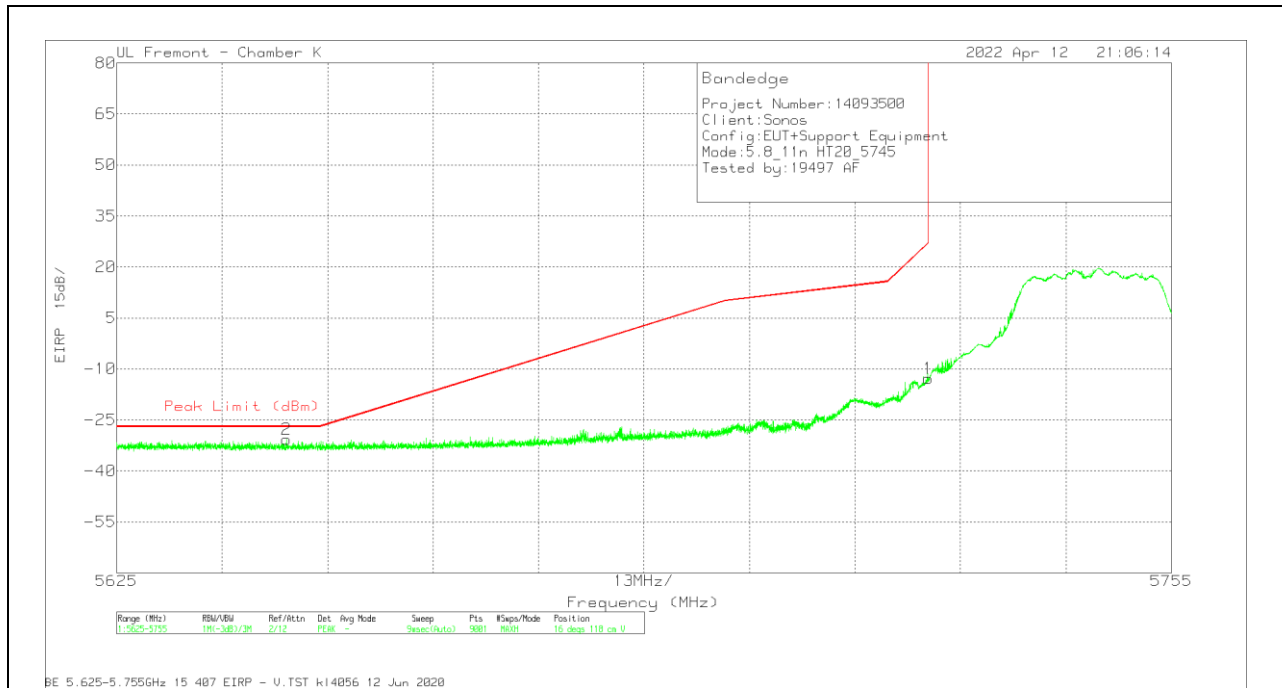


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-59.33	Pk	34.9	-6.1	11.8	-18.73	27	-45.73	220	98	H
2	5643.387	-71.36	Pk	34.8	-6.4	11.8	-31.16	-27	-4.16	220	98	H

Pk - Peak detector

VERTICAL RESULT



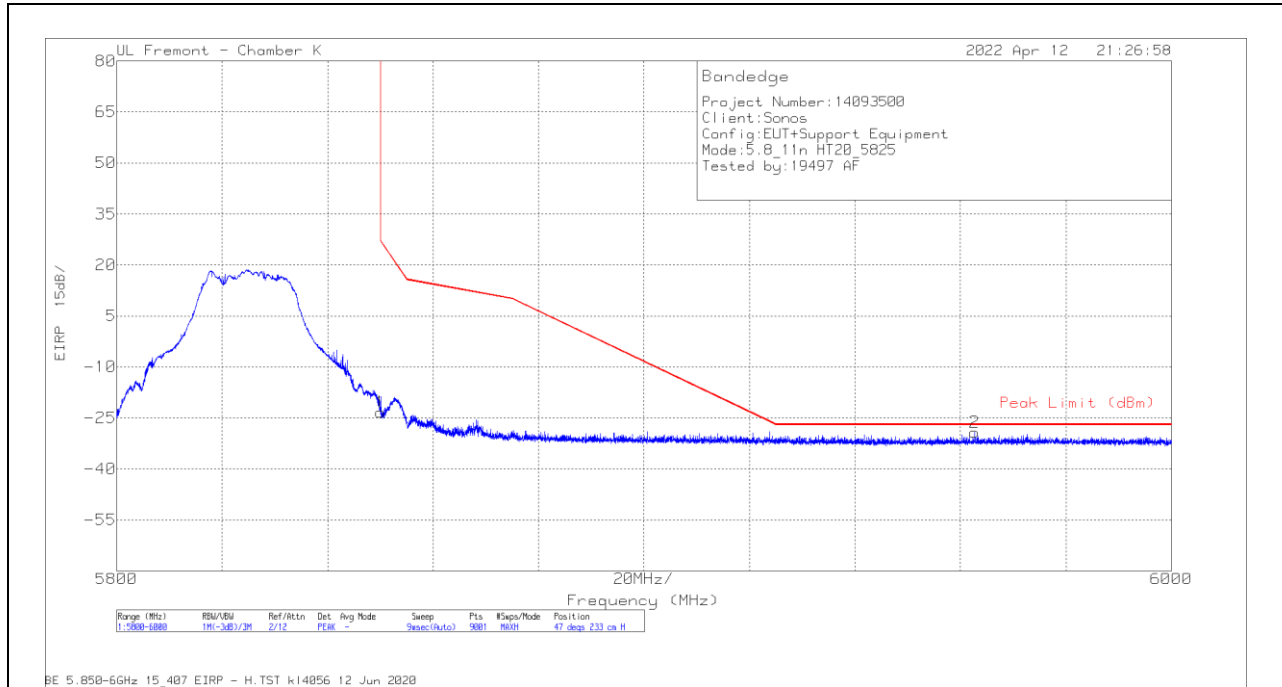
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-53.46	Pk	34.9	-6.1	11.8	-12.86	27	-39.86	16	118	V
2	5645.973	-70.95	Pk	34.9	-6.4	11.8	-30.65	-27	-3.65	16	118	V

PK - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

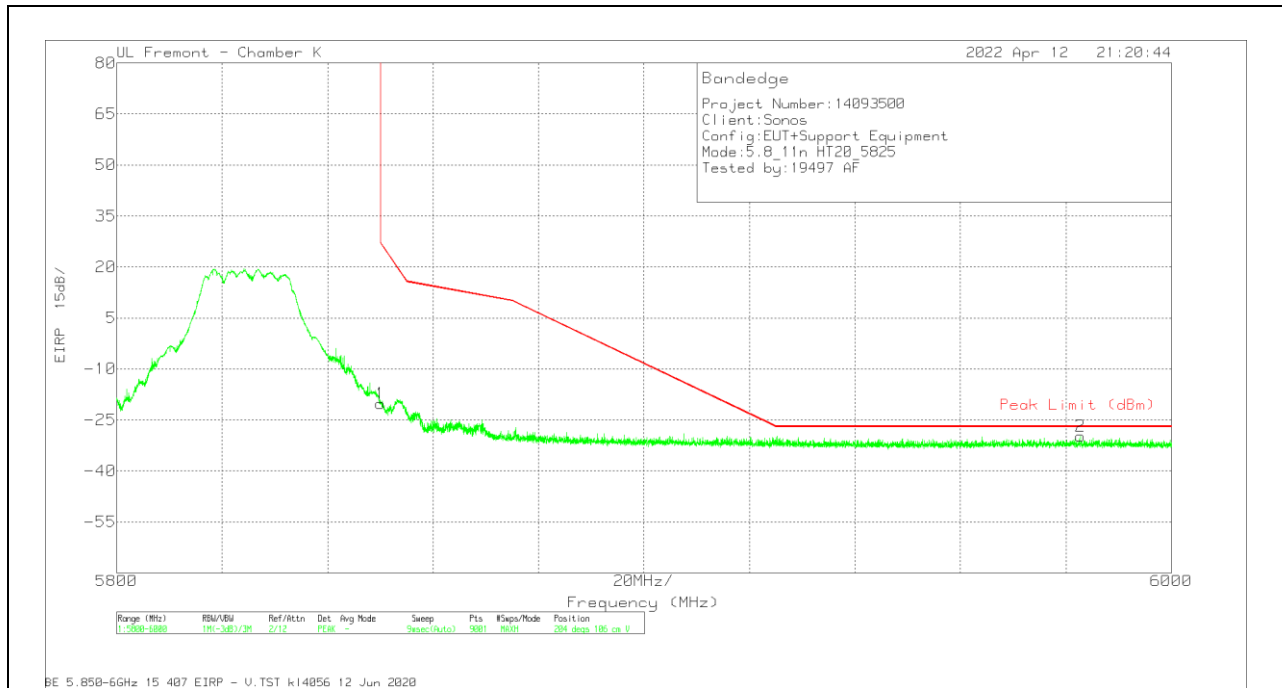


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-64.41	PK	35.1	-5.9	11.8	-23.41	27	-50.41	47	233	H
2	5962.732	-70.66	PK	35.3	-5.6	11.8	-29.16	-27	-2.16	47	233	H

Pk - Peak detector

VERTICAL RESULT



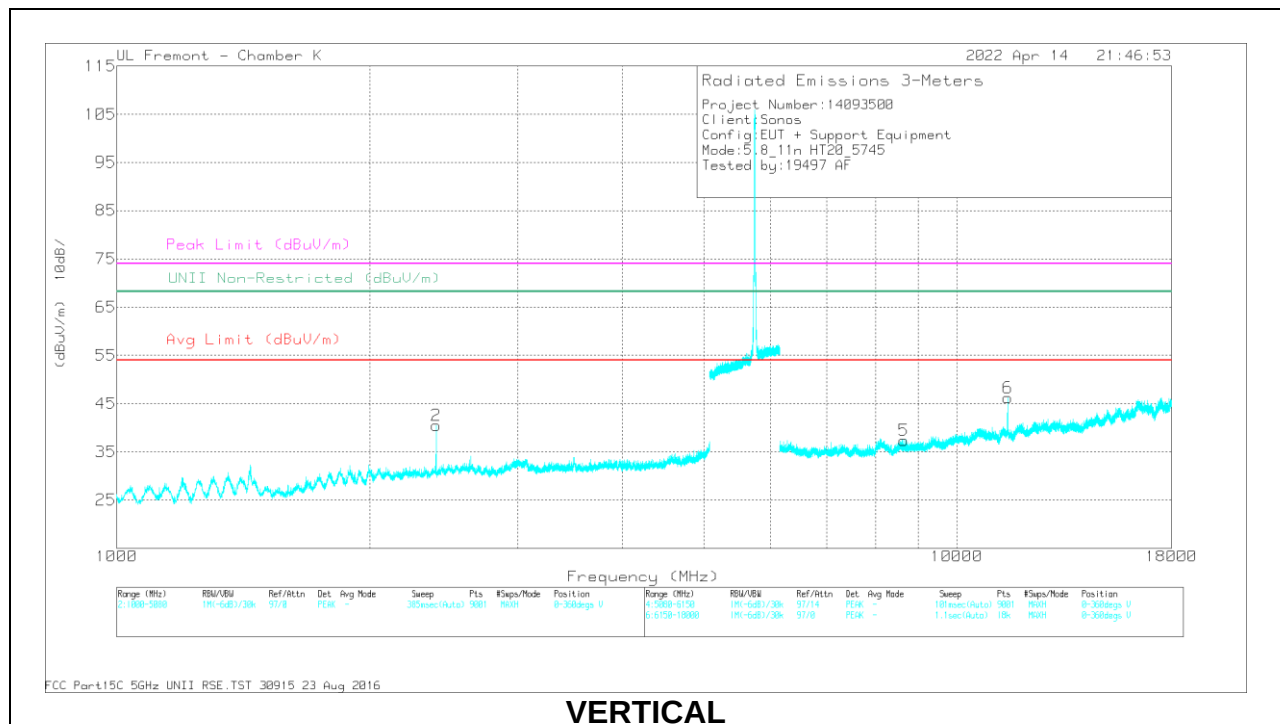
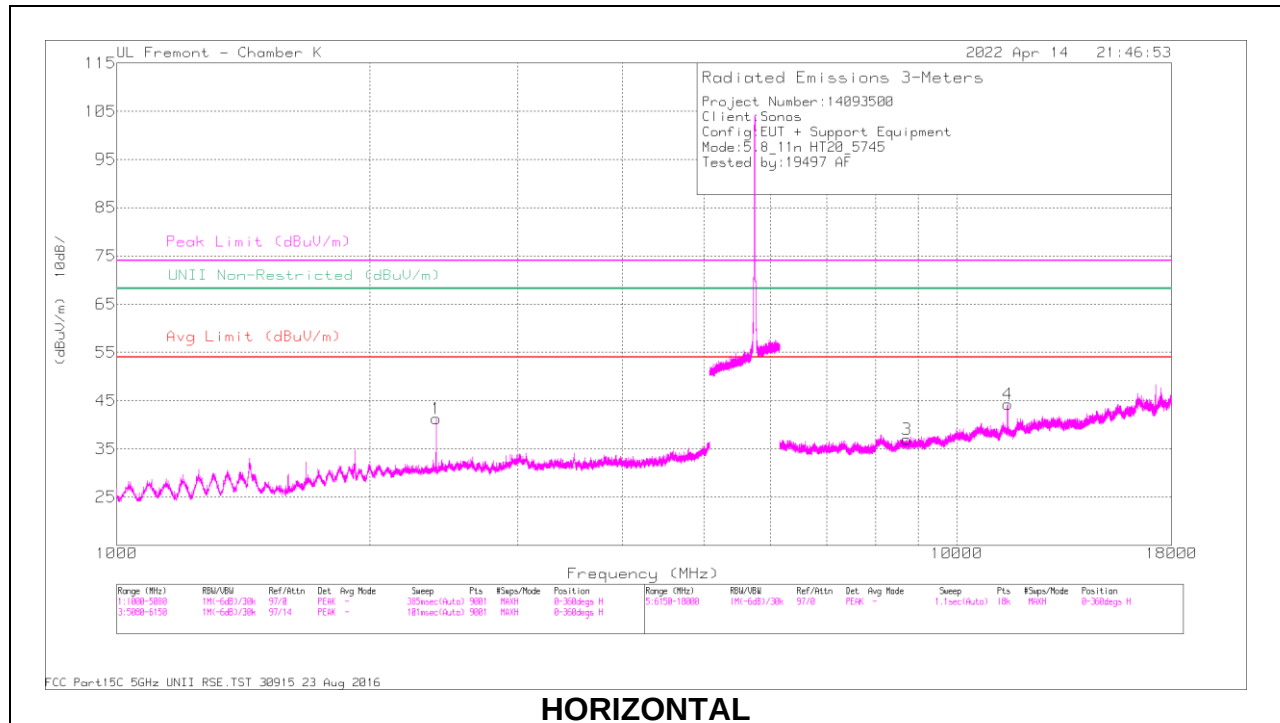
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-61.21	Pk	35.1	-5.9	11.8	-20.21	27	-47.21	204	106	V
2	5982.754	-71.54	Pk	35.4	-5.5	11.8	-29.84	-27	-2.84	204	106	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

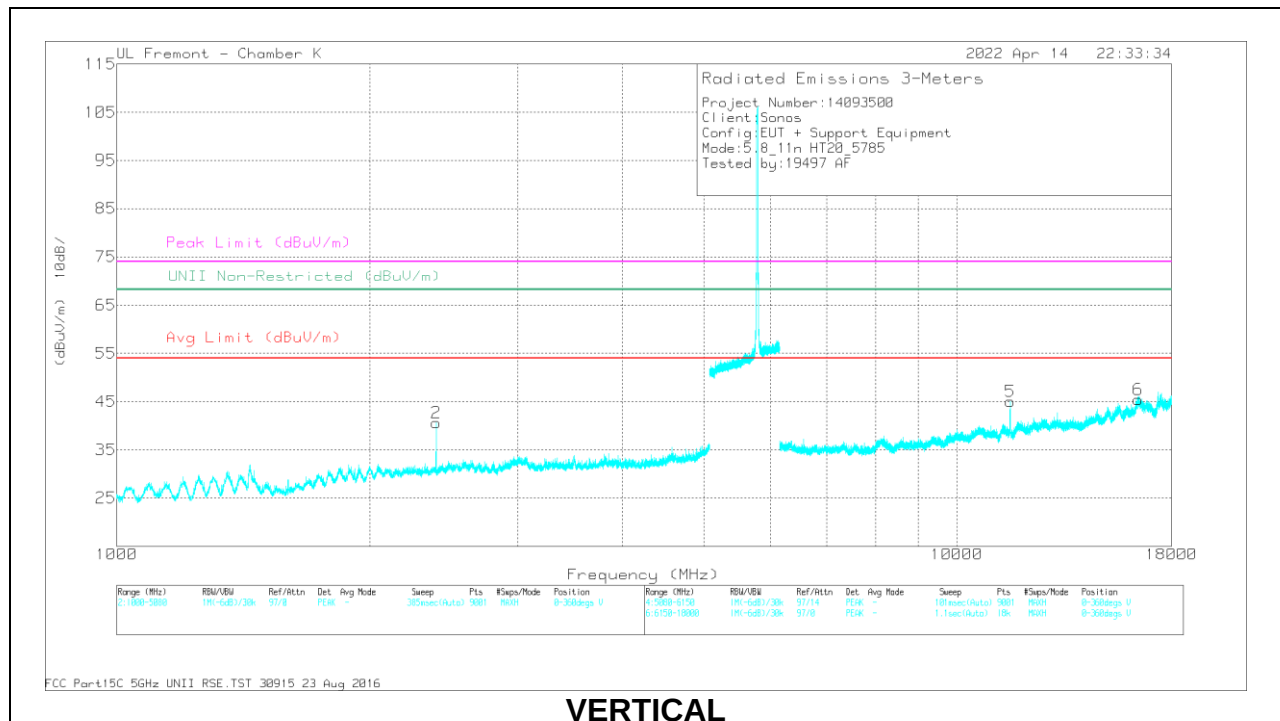
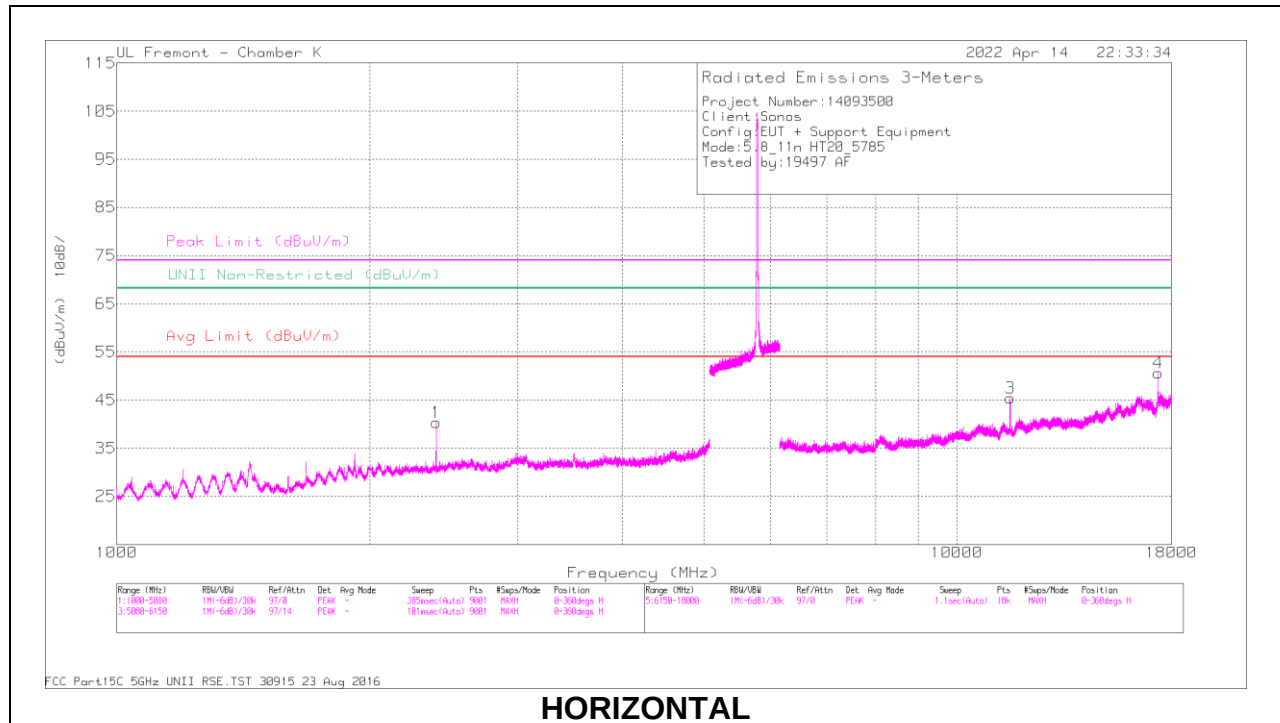
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2400.136	59.58	PK-U	32	-44.4	0	47.18	-	-	-	-	68.2	-21.02	52	98	H
2	2400.156	60.45	PK-U	32	-44.4	0	48.05	-	-	-	-	68.2	-20.15	7	98	V
4	* 11490.96	55.38	PK-U	38.3	-35.1	0	58.58	-	-	74	-15.42	-	-	68	214	H
	* 11491.012	41.87	ADR	38.3	-35.1	1.11	46.18	54	-7.82	-	-	-	-	68	214	H
3	8719.346	46.27	PK-U	36.1	-36.4	0	45.97	-	-	-	-	68.2	-22.23	55	362	H
6	* 11492.302	52.51	PK-U	38.3	-35.1	0	55.71	-	-	74	-18.29	-	-	101	98	V
	* 11490.192	39.76	ADR	38.3	-35.1	1.11	44.07	54	-9.93	-	-	-	-	101	98	V
5	8640.967	46.49	PK-U	36	-36.5	0	45.99	-	-	-	-	68.2	-22.21	193	278	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

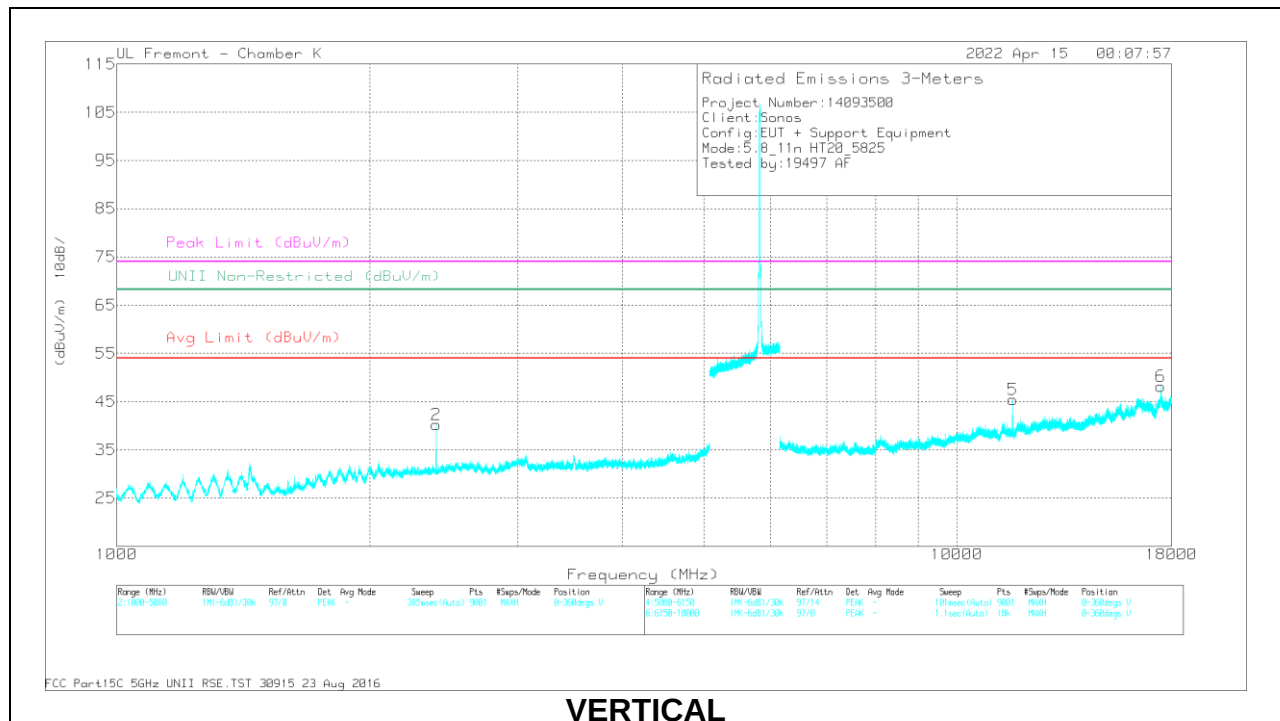
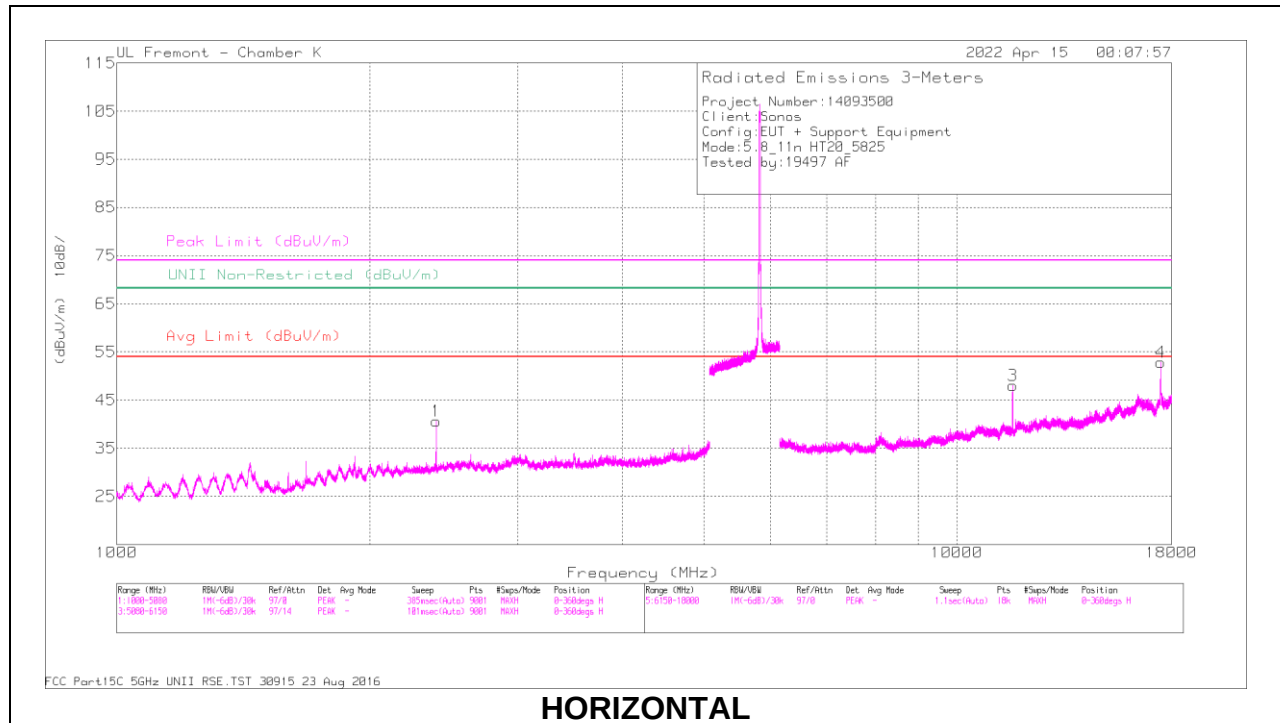
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2400.308	67.78	PK-U	32	-44.4	0	55.38	-	-	-	-	68.2	-12.82	41	222	H
2	2400.196	60.2	PK-U	32	-44.4	0	47.8	-	-	-	-	68.2	-20.4	360	118	V
3	* 11571.019	54.63	PK-U	38.4	-34.7	0	58.33	-	-	74	-15.67	-	-	69	207	H
	* 11568.733	41.34	ADR	38.4	-34.7	1.11	46.15	54	-7.85	-	-	-	-	69	207	H
4	17353.08	51.25	PK-U	41.4	-30.9	0	61.75	-	-	-	-	68.2	-6.45	20	115	H
5	* 11571.765	51.63	PK-U	38.4	-34.6	0	55.43	-	-	74	-18.57	-	-	101	215	V
	* 11571.901	37.91	ADR	38.4	-34.6	1.11	42.82	54	-11.18	-	-	-	-	101	215	V
6	16435.143	43.44	PK-U	41.6	-31.5	0	53.54	-	-	-	-	68.2	-14.66	124	183	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2399.733	62.7	PK-U	32	-44.4	0	50.3	-	-	-	-	68.2	-17.9	46	197	H
2	2400.104	60.97	PK-U	32	-44.4	0	48.57	-	-	-	-	68.2	-19.63	3	98	V
3	* 11652.72	53.8	PK-U	38.5	-34.5	0	57.8	-	-	74	-16.2	-	-	77	213	H
	* 11650.238	41.56	ADR	38.5	-34.5	1.11	46.67	54	-7.33	-	-	-	-	77	213	H
4	17479.05	51.73	PK-U	41.5	-30.1	0	63.13	-	-	-	-	68.2	-5.07	4	221	H
5	* 11652.049	52.11	PK-U	38.5	-34.5	0	56.11	-	-	74	-17.89	-	-	176	111	V
	* 11650.147	39.89	ADR	38.5	-34.5	1.11	45	54	-9	-	-	-	-	176	111	V
6	17472.79	48.57	PK-U	41.5	-30.4	0	59.67	-	-	-	-	68.2	-8.53	60	191	V

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

PK-U - U-NII: Maximum Peak

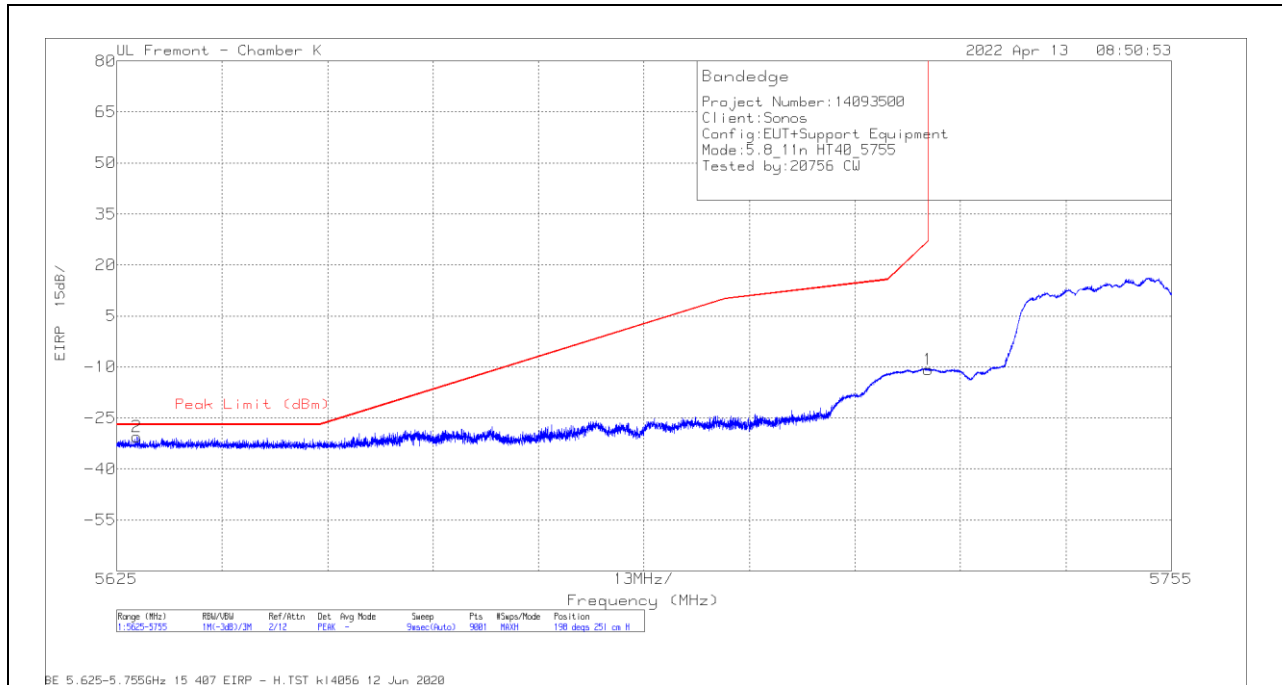
ADR - U-NII AD primary method, RMS average

10.1.15. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

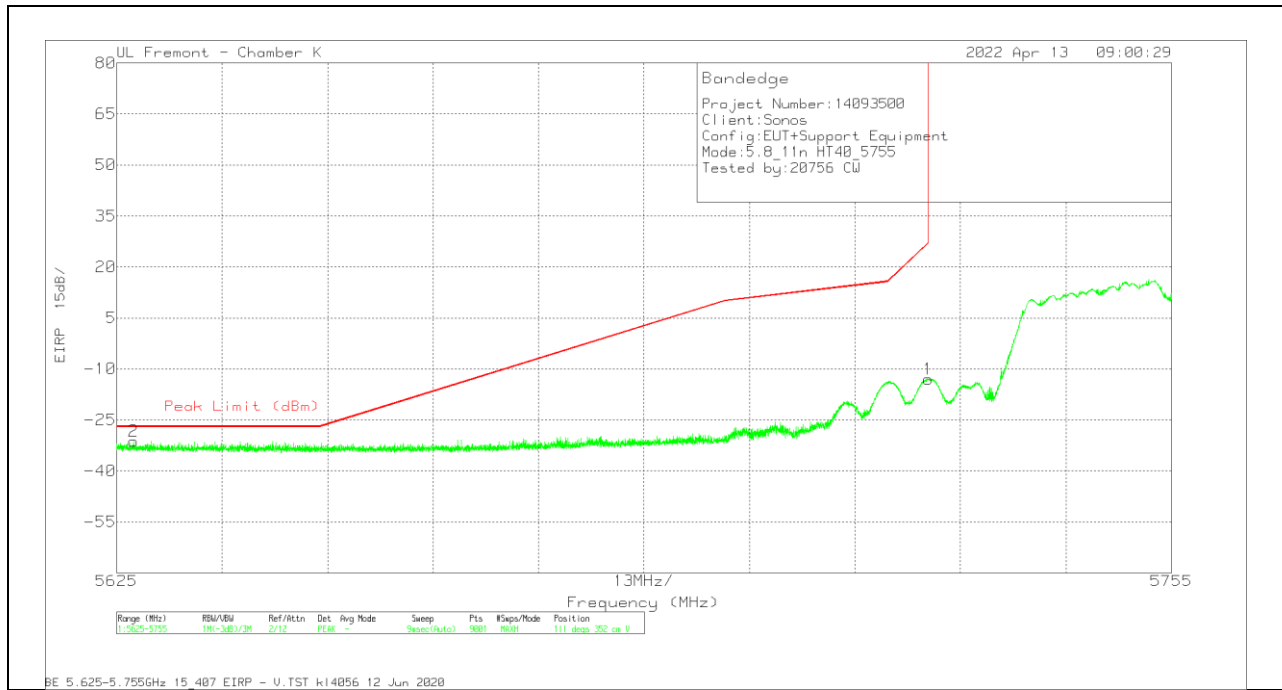


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-51.42	Pk	34.9	-6.1	11.8	-10.82	27	-37.82	198	251	H
2	5627.455	-70.96	Pk	34.9	-6.3	11.8	-30.56	-27	-3.56	198	251	H

Pk - Peak detector

VERTICAL RESULT



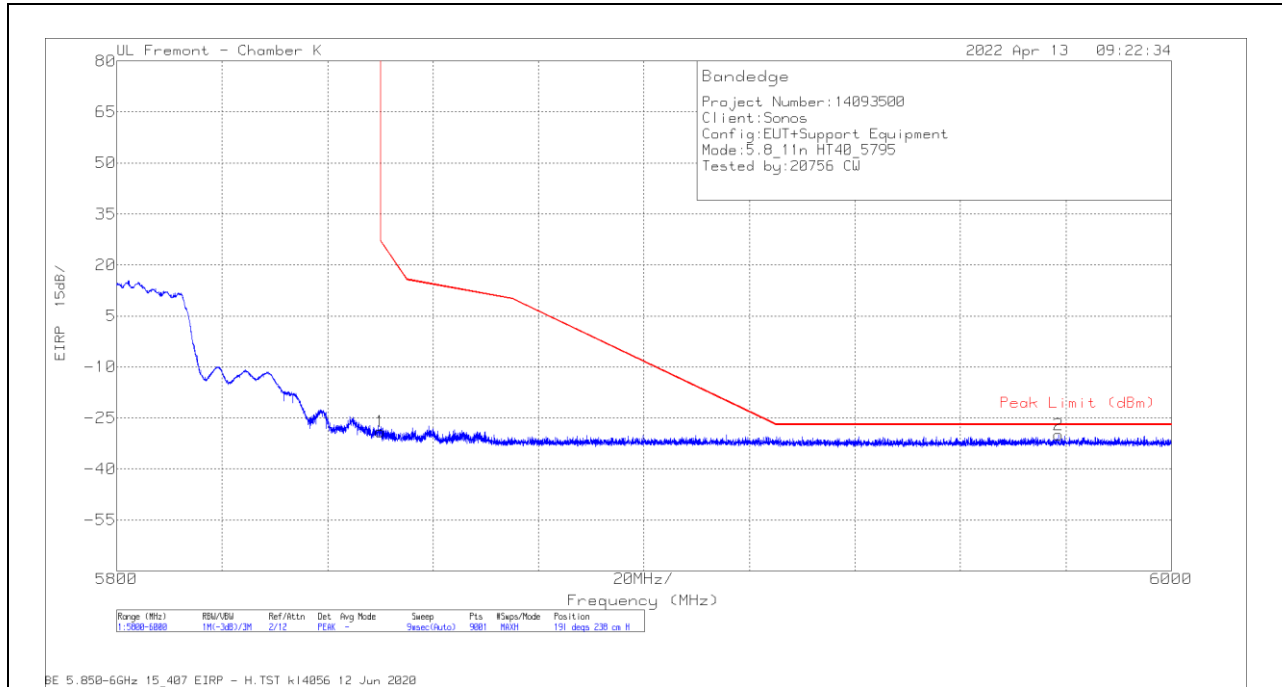
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-53.68	Pk	34.9	-6.1	11.8	-13.08	27	-40.08	111	352	V
2	5627.123	-71.75	Pk	34.9	-6.3	11.8	-31.35	-27	-4.35	111	352	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

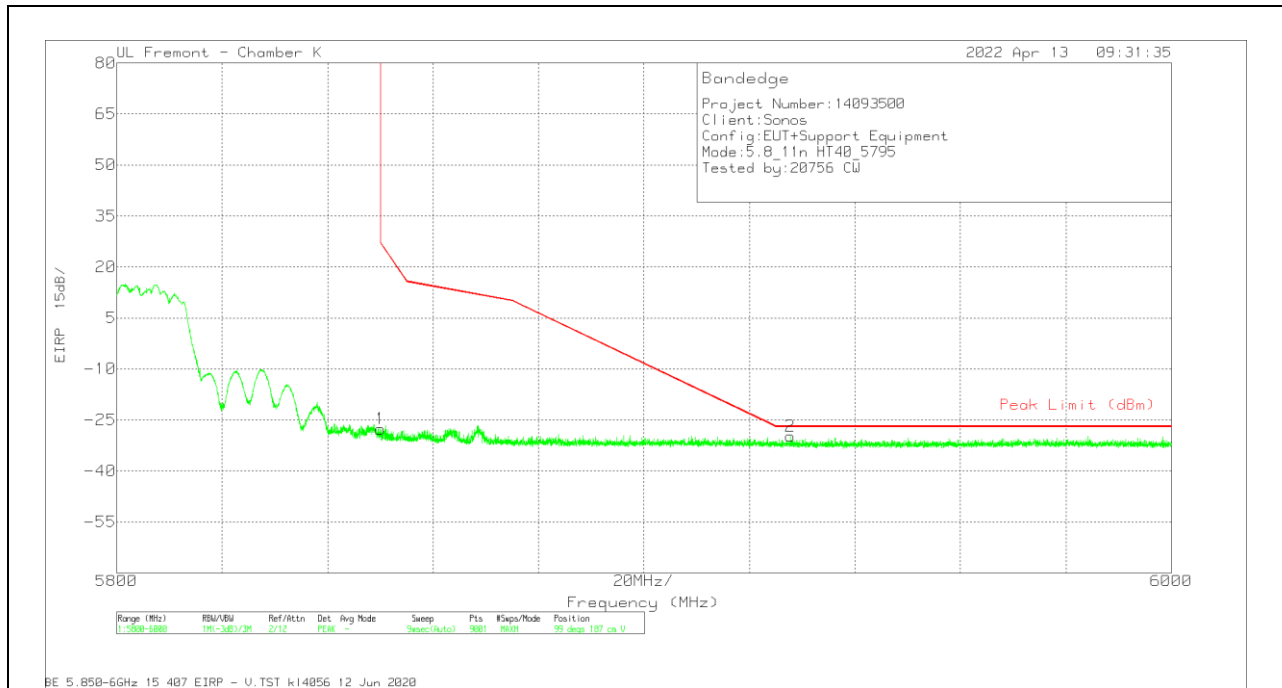


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-70.02	Pk	35.1	-5.9	11.8	-29.02	27	-56.02	191	238	H
2	5978.62	-71.72	Pk	35.4	-5.5	11.8	-30.02	-27	-3.02	191	238	H

Pk - Peak detector

VERTICAL RESULT



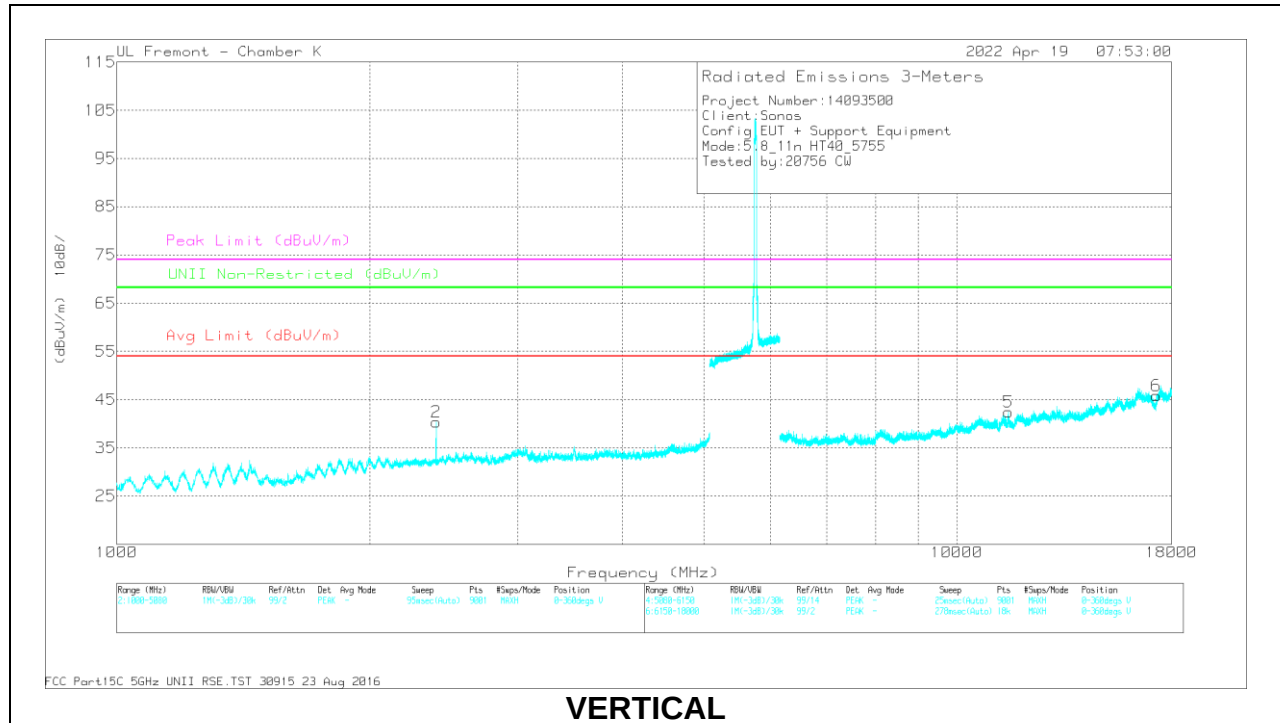
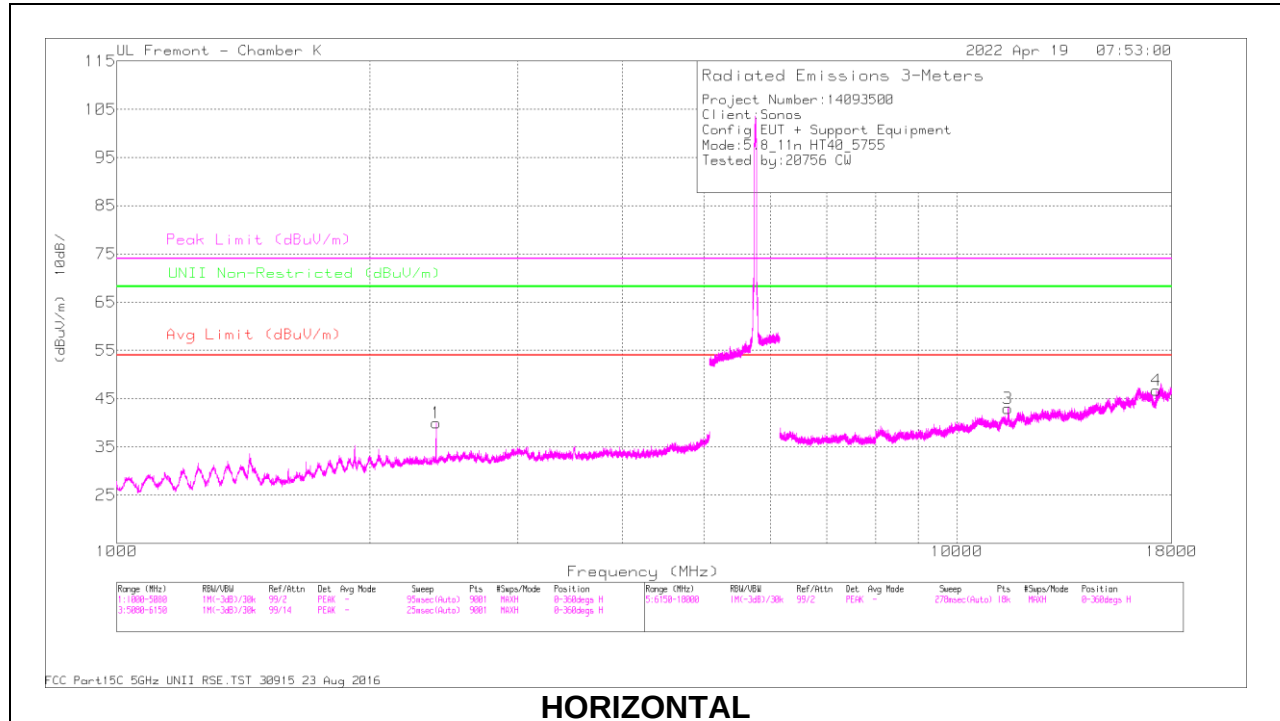
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-68.67	Pk	35.1	-5.9	11.8	-27.67	27	-54.67	99	187	V
2	5927.777	-71.01	Pk	35.3	-5.8	11.8	-29.71	-27	-2.71	99	187	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

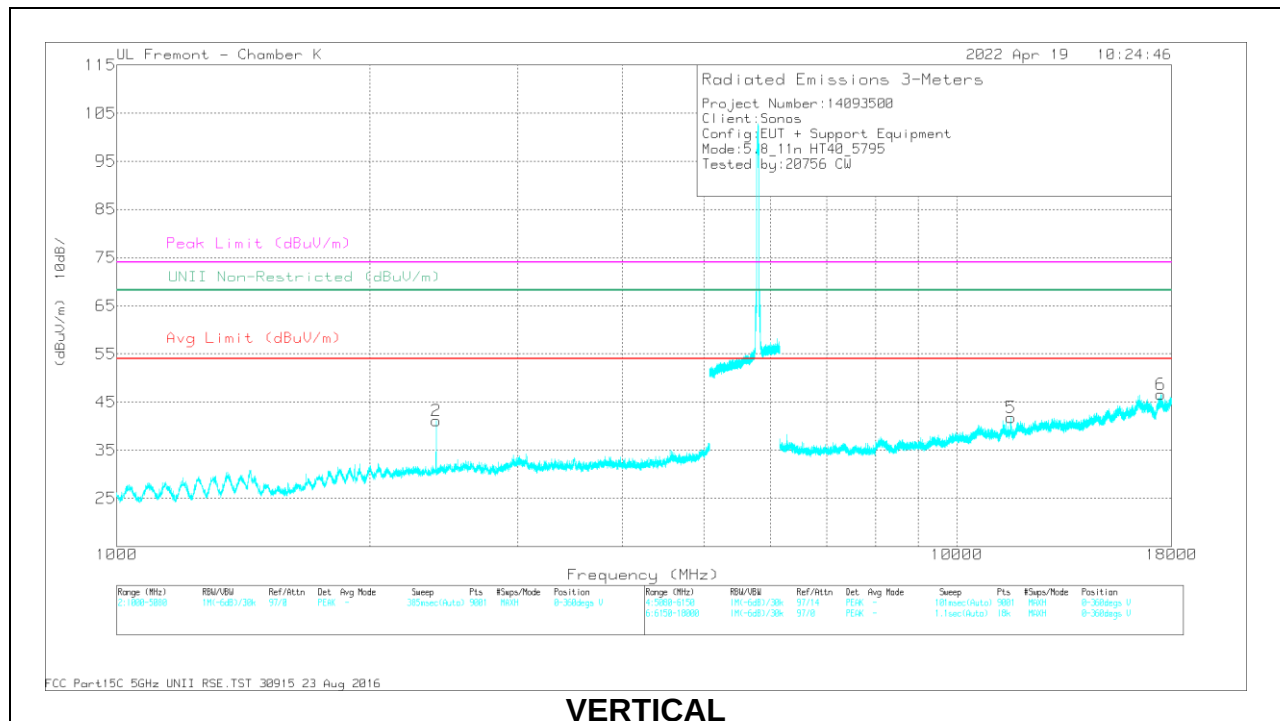
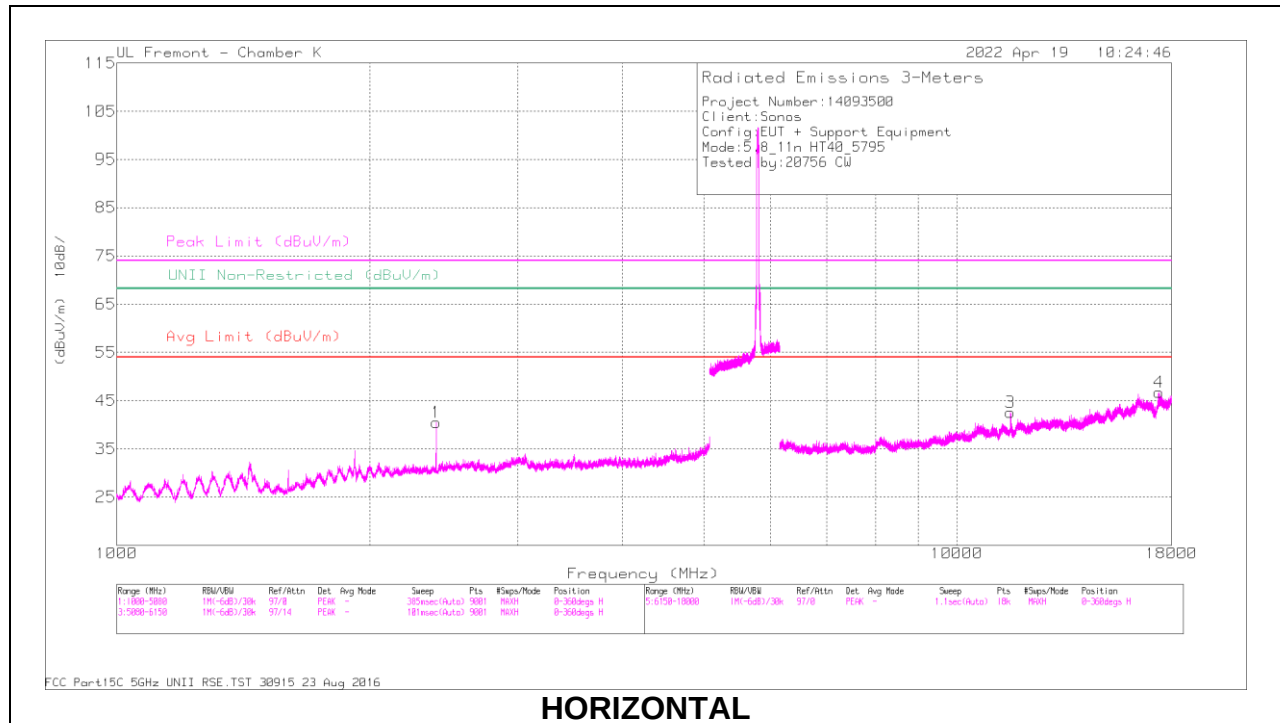
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2400.14	62.13	PK-U	32	-44.4	0	49.73	-	-	-	-	68.2	-18.47	139	246	H
2	2399.92	61.26	PK-U	32	-44.4	0	48.86	-	-	-	-	68.2	-19.34	360	120	V
5	* 11506.689	50.34	PK-U	38.3	-35	0	53.64	-	-	74	-20.36	-	-	96	105	H
	* 11506.589	37.42	ADR	38.3	-35	2.04	42.76	54	-11.24	-	-	-	-	96	105	H
6	17274.738	49.07	PK-U	41.3	-30.9	0	59.47	-	-	-	-	68.2	-8.73	18	124	H
3	* 11516.797	49.73	PK-U	38.3	-34.9	0	53.13	-	-	74	-20.87	-	-	93	167	V
	* 11516.913	37.16	ADR	38.3	-34.9	2.04	42.6	54	-11.4	-	-	-	-	93	167	V
4	17284.945	44.83	PK-U	41.4	-31	0	55.23	-	-	-	-	68.2	-12.97	90	128	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2400.084	61.73	PK-U	32	-44.4	0	49.33	-	-	-	-	68.2	-18.87	140	233	H
2	2399.461	61.37	PK-U	32	-44.4	0	48.97	-	-	-	-	68.2	-19.23	0	196	V
3	* 11583.787	48.64	PK-U	38.4	-34.6	0	52.44	-	-	74	-21.56	-	-	72	326	H
	* 11583.871	36.12	ADR	38.5	-34.6	2.04	42.06	54	-11.94	-	-	-	-	72	326	H
4	17387.118	44.95	PK-U	41.4	-30.7	0	55.65	-	-	-	-	68.2	-12.55	32	181	H
5	* 11589.749	48.82	PK-U	38.4	-34.7	0	52.52	-	-	74	-21.48	-	-	102	188	V
	* 11589.042	35.89	ADR	38.4	-34.7	2.04	41.63	54	-12.37	-	-	-	-	102	188	V
6	17481.369	43.94	PK-U	41.5	-30.1	0	55.34	-	-	-	-	68.2	-12.86	185	99	V

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

PK-U - U-NII: Maximum Peak

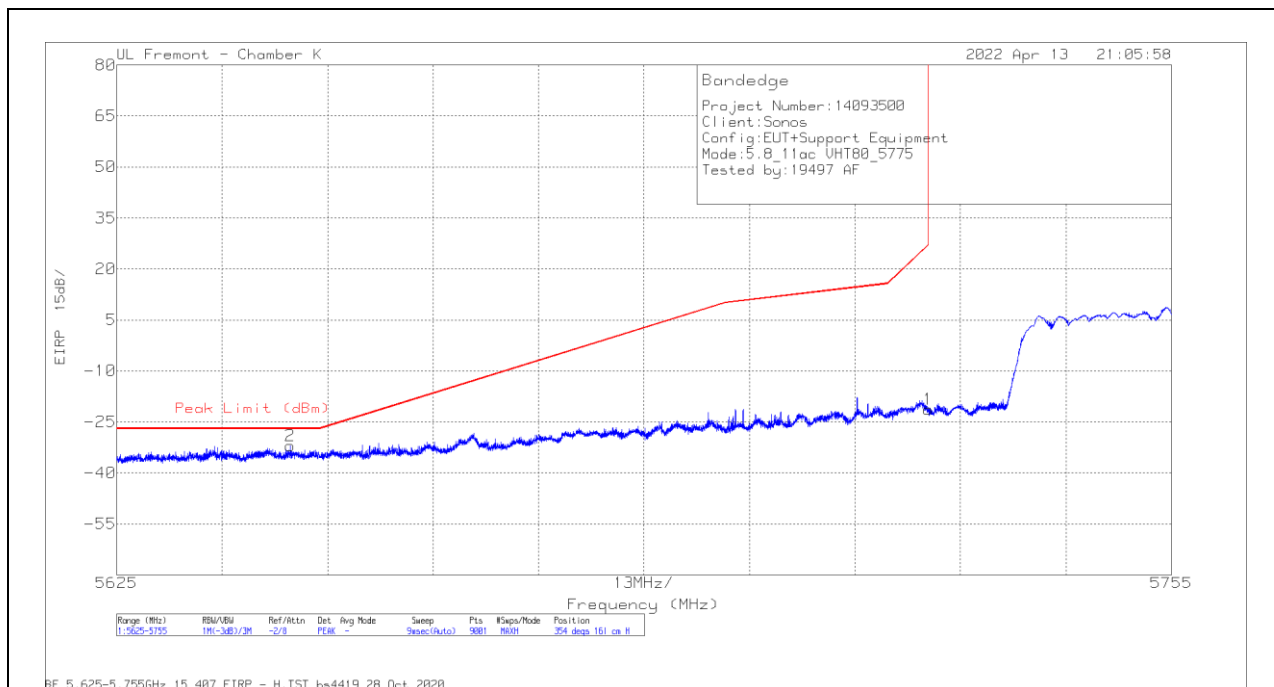
ADR - U-NII AD primary method, RMS average

10.1.16. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 4 CDD MODE

BANDEDGE (CHANNEL 155 LOW EDGE)

HORIZONTAL RESULT

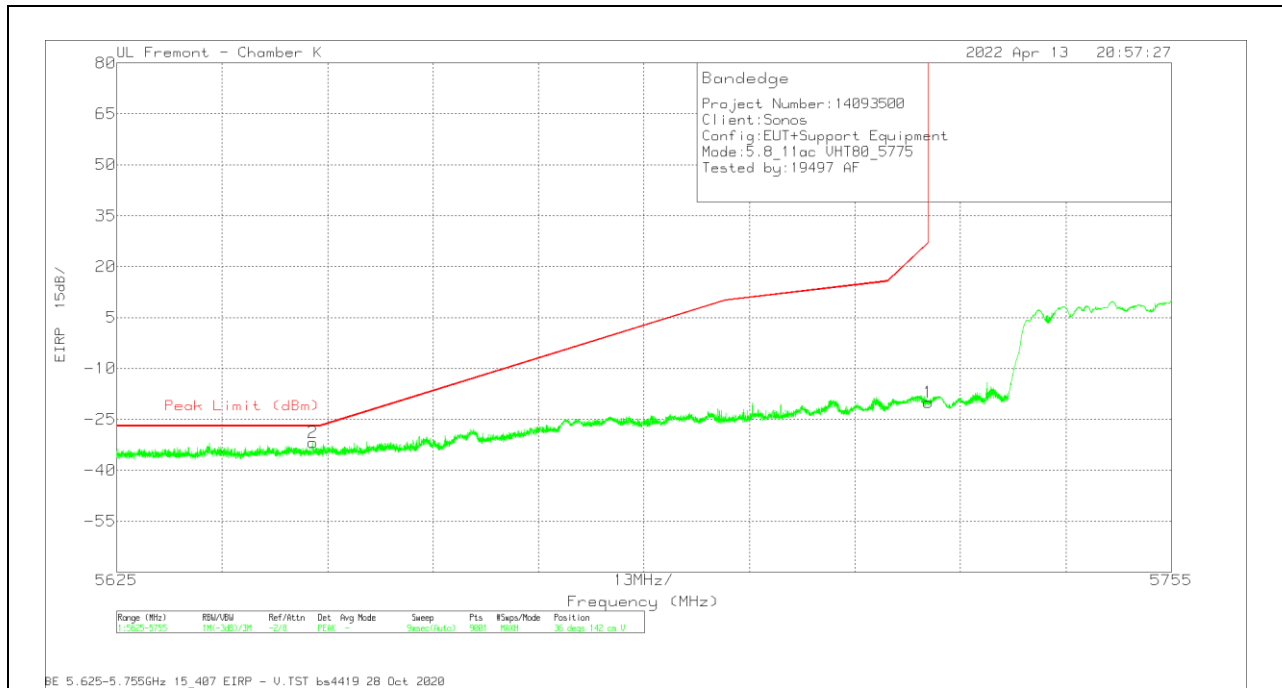


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-61.86	Pk	34.9	-6.1	11.8	-21.26	27	-48.26	354	161	H
2	5646.406	-72.35	Pk	34.9	-6.4	11.8	-32.05	-27	-5.05	354	161	H

Pk - Peak detector

VERTICAL RESULT



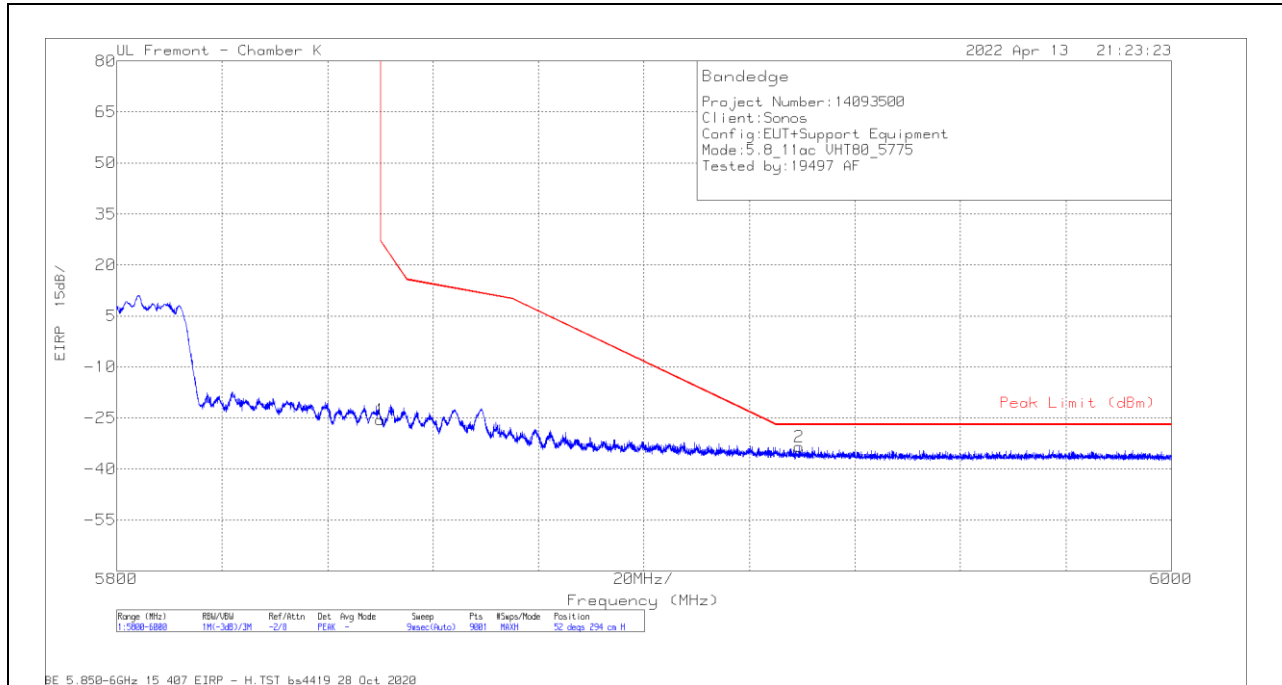
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5725	-60.62	Pk	34.9	-6.1	11.8	-20.02	27	-47.02	36	142	V
2	5649.208	-72.06	Pk	34.8	-6.4	11.8	-31.86	-27	-4.86	36	142	V

Pk - Peak detector

BANDEDGE (CHANNEL 155 HIGH EDGE)

HORIZONTAL RESULT

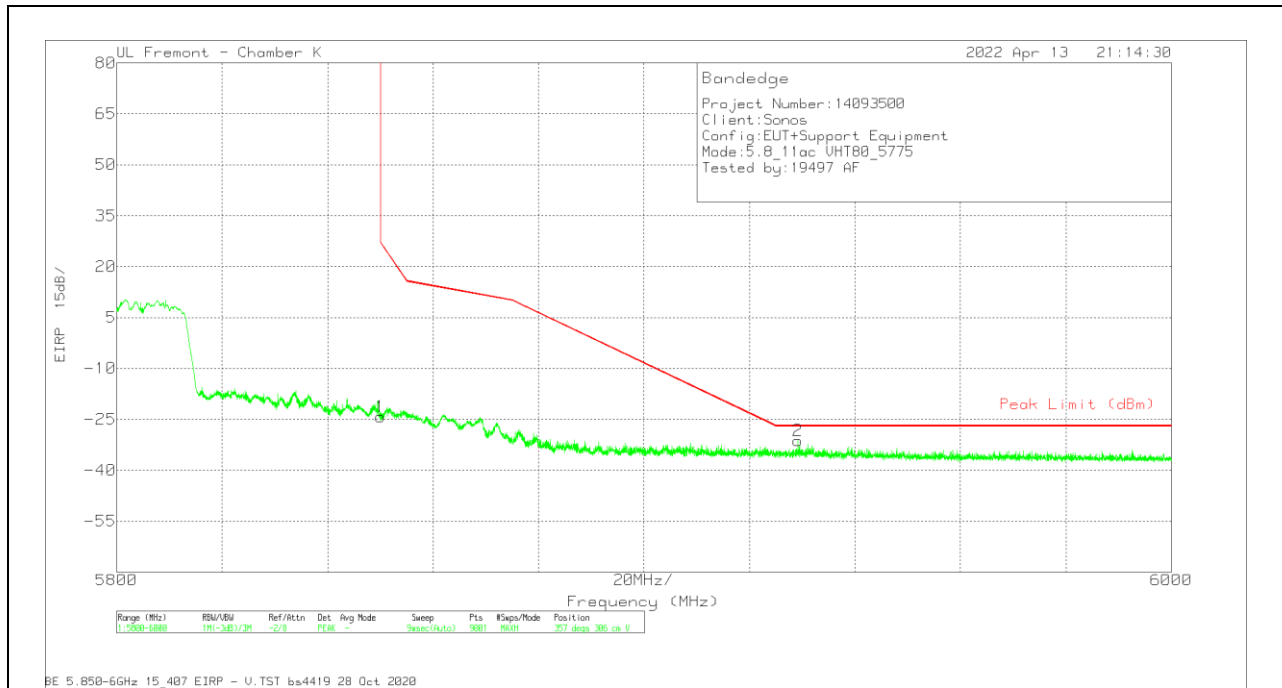


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-66.56	Pk	35.1	-5.9	11.8	-25.56	27	-52.56	52	294	H
2	5929.421	-74.86	Pk	35.3	-5.8	11.8	-33.56	-27	-6.56	52	294	H

Pk - Peak detector

VERTICAL RESULT



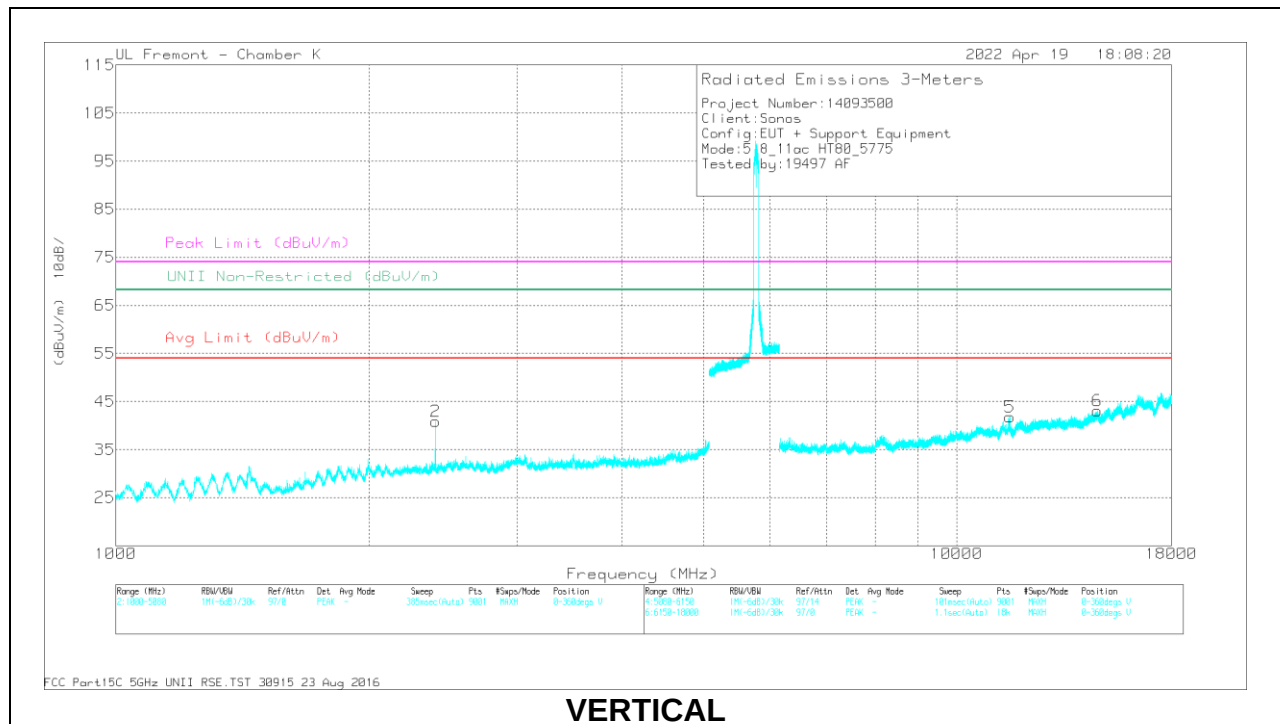
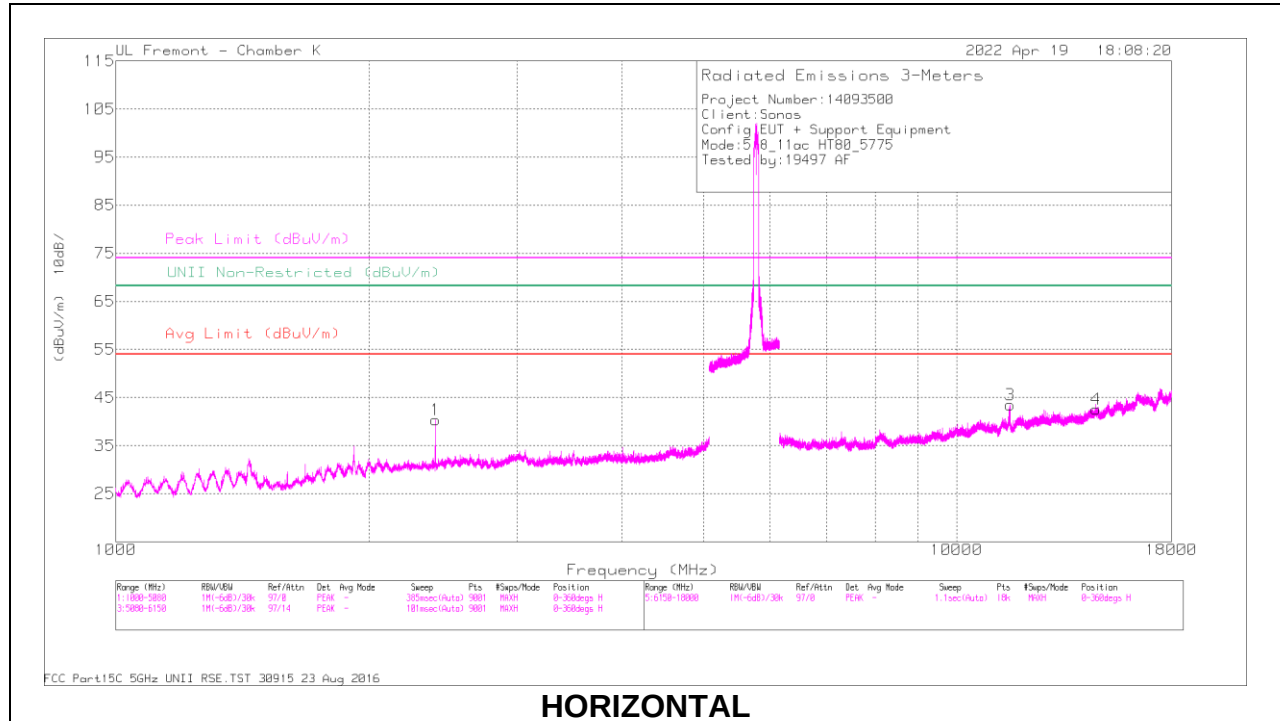
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 80404 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5850	-65.19	Pk	35.1	-5.9	11.8	-24.19	27	-51.19	357	306	V
2	5929.199	-72.66	Pk	35.3	-5.8	11.8	-31.36	-27	-4.36	357	306	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 80404 (dB/m)	Amp/Cbl/Fitr (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2399.713	59	PK-U	32	-44.2	0	46.8	-	-	-	-	68.2	-21.4	140	114	H
2	2400.312	60.48	PK-U	32	-44.2	0	48.28	-	-	-	-	68.2	-19.92	199	211	V
3	* 11569.629	50.28	PK-U	38.4	-34.4	0	54.28	-	-	74	-19.72	-	-	180	216	H
	* 11570.089	35.26	ADR	38.4	-34.4	3.36	42.62	54	-11.38	-	-	-	-	180	216	H
4	14637.145	45.22	PK-U	39.9	-33.3	0	51.82	-	-	-	-	68.2	-16.38	209	258	H
5	* 11566.336	47.95	PK-U	38.4	-34.5	0	51.85	-	-	74	-22.15	-	-	131	191	V
	* 11568.454	34.52	ADR	38.4	-34.4	3.36	41.88	54	-12.12	-	-	-	-	131	191	V
6	14695.002	44.26	PK-U	40	-32.7	0	51.56	-	-	-	-	68.2	-16.64	346	196	V

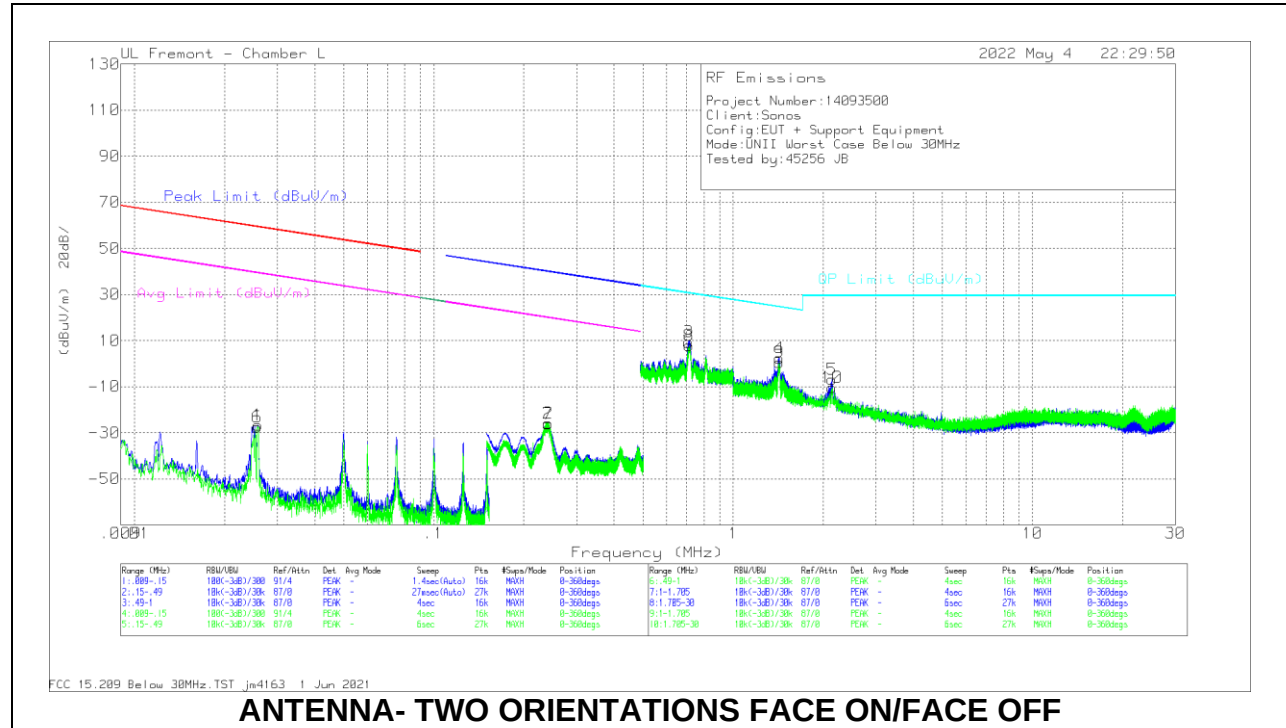
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF

Below 30MHz Data

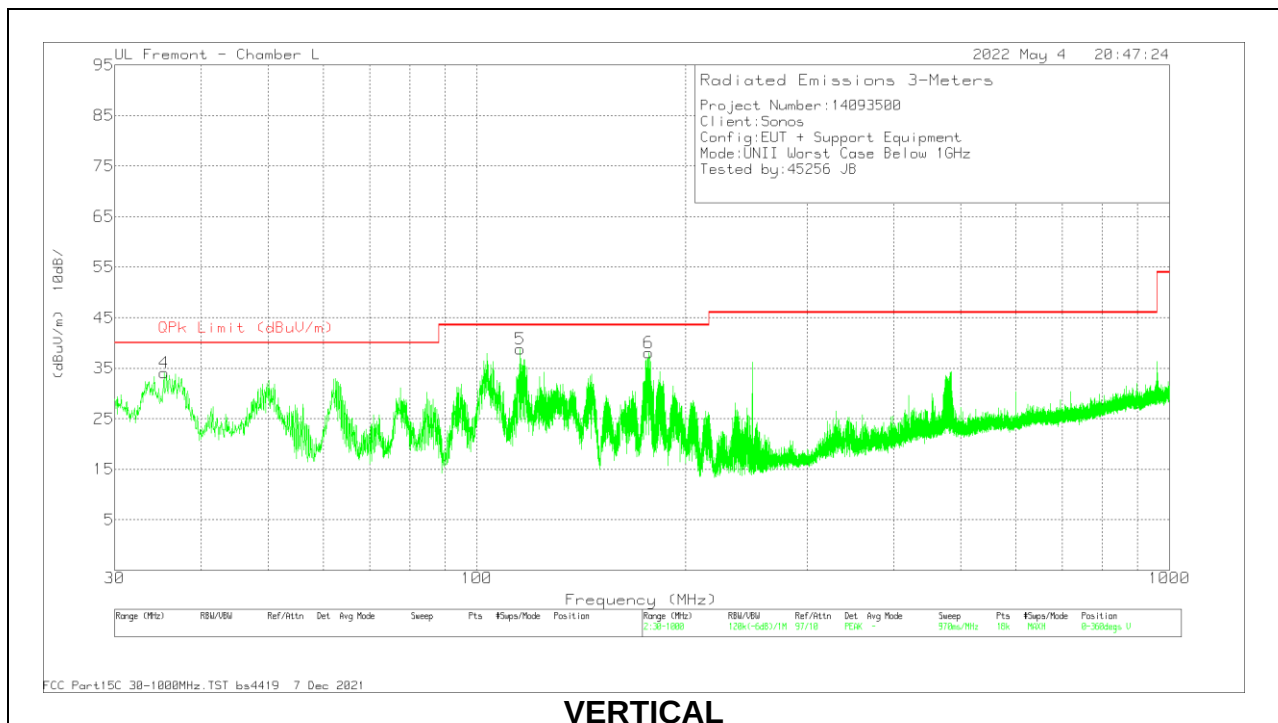
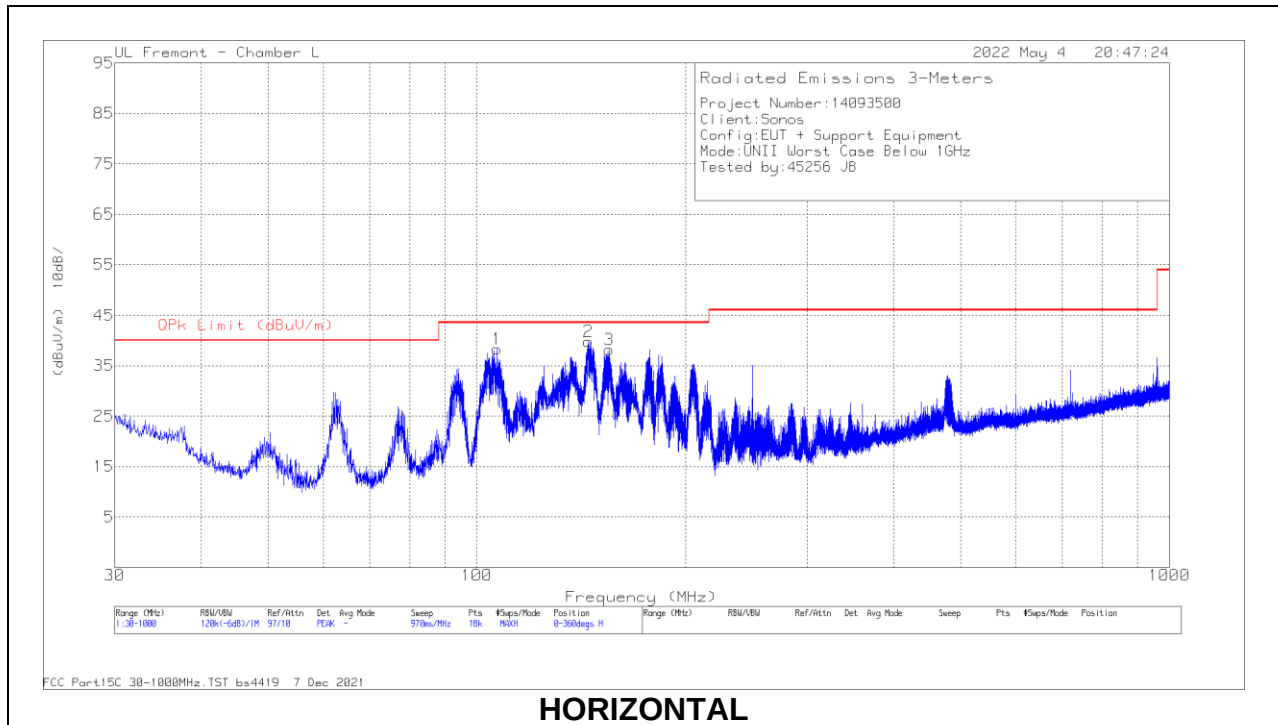
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
1	.0259	26.23	Pk	58.4	-31.4	-80	-26.77	59.33	-86.1	39.33	-66.1	39.98	-65.85	19.98	-45.85	0-360	Face-On
2	.2408	29.93	Pk	56.2	-32	-80	-25.87	59.36	-86.84	39.36	-66.84	39.99	-66.11	19.99	-46.11	0-360	Face-On
6	.0258	25.52	Pk	58.4	-31.4	-80	-27.48	59.36	-86.84	39.36	-66.84	39.99	-66.11	19.99	-46.11	0-360	Face-Off
7	.2405	29.68	Pk	56.2	-32	-80	-26.12	59.36	-86.84	39.36	-66.84	39.99	-66.11	19.99	-46.11	0-360	Face-Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (E ACF)	Amp/Cbl (dB)	Dist Corr 30m 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Polarity
3	.7086	25.09	Pk	56.2	-31.9	-40	9.39	30.61	-21.22	0-360	Face-On
8	.7123	23.49	Pk	56.2	-31.9	-40	7.79	30.56	-22.77	0-360	Face-Off
4	1.4254	29.88	Pk	44.5	-31.9	-40	2.48	24.55	-22.07	0-360	Face-On
5	2.1389	23.96	Pk	41.1	-31.8	-40	-6.74	29.5	-36.24	0-360	Face-On
9	1.4254	27.96	Pk	44.5	-31.9	-40	.56	24.55	-23.99	0-360	Face-Off
10	2.141	20.28	Pk	41.1	-31.8	-40	-10.42	29.5	-39.92	0-360	Face-Off

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHz

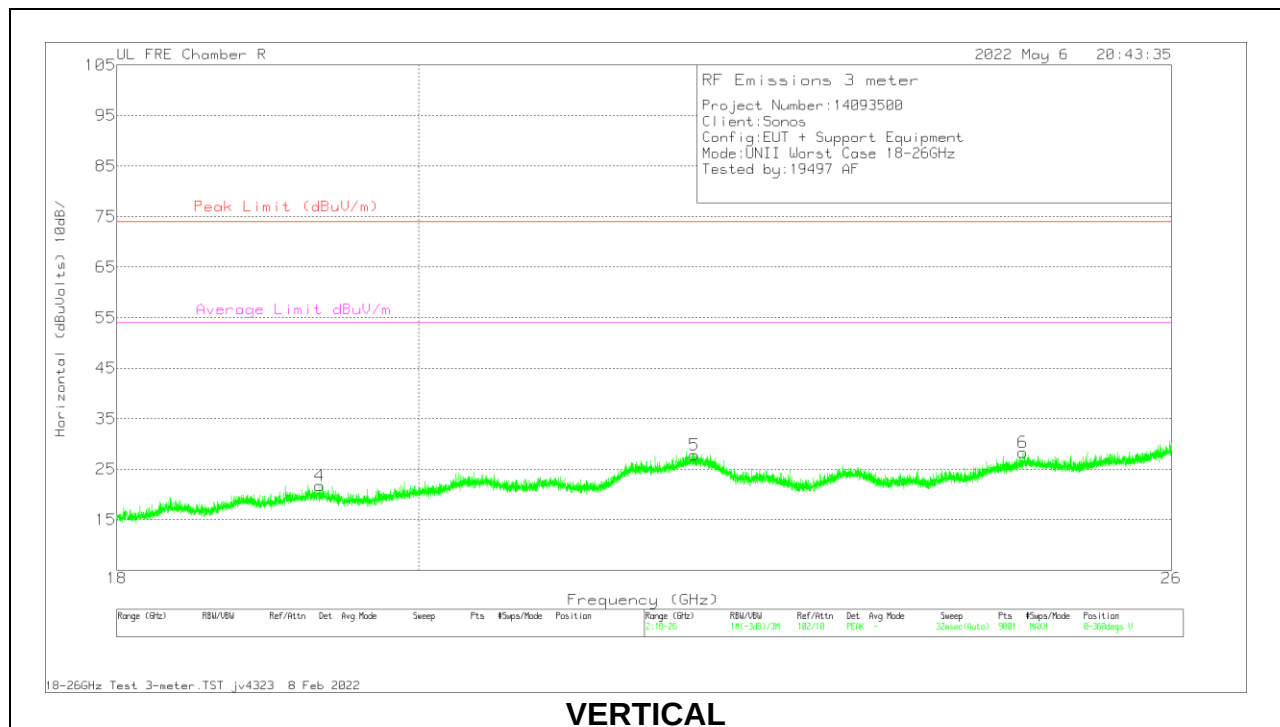
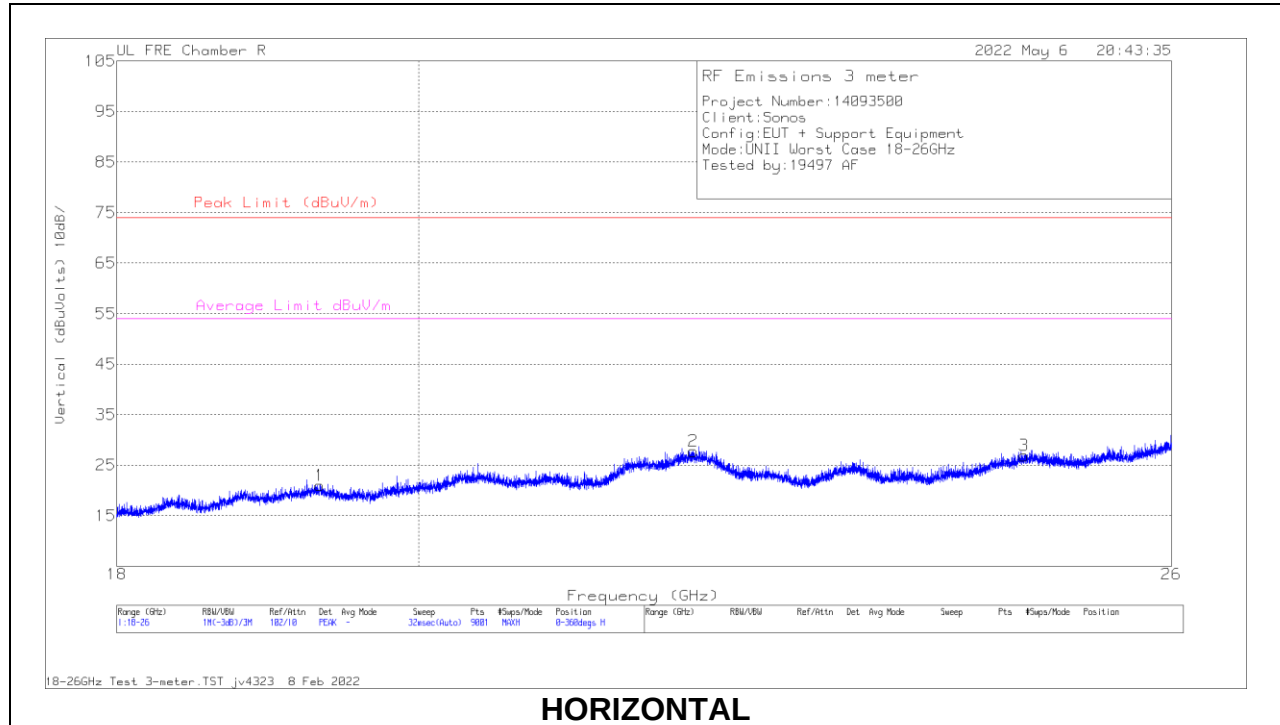


Below 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	171862 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	106.595	47.43	Qp	17.9	-30.7	34.63	43.52	-8.89	266	315	H
2	145.173	43.36	Qp	18.5	-30.3	31.56	43.52	-11.96	91	229	H
3	154.939	41.72	Qp	18.2	-30.3	29.62	43.52	-13.9	96	170	H
4	35.6779	39.22	Qp	22.7	-31.3	30.62	40	-9.38	43	103	V
5	115.055	48.89	Qp	19.2	-30.6	37.49	43.52	-6.03	197	105	V
6	177.433	43.55	Qp	17.1	-30.2	30.45	43.52	-13.07	331	101	V

Qp - Quasi-Peak detector

10.4. WORST CASE 18-26 GHz



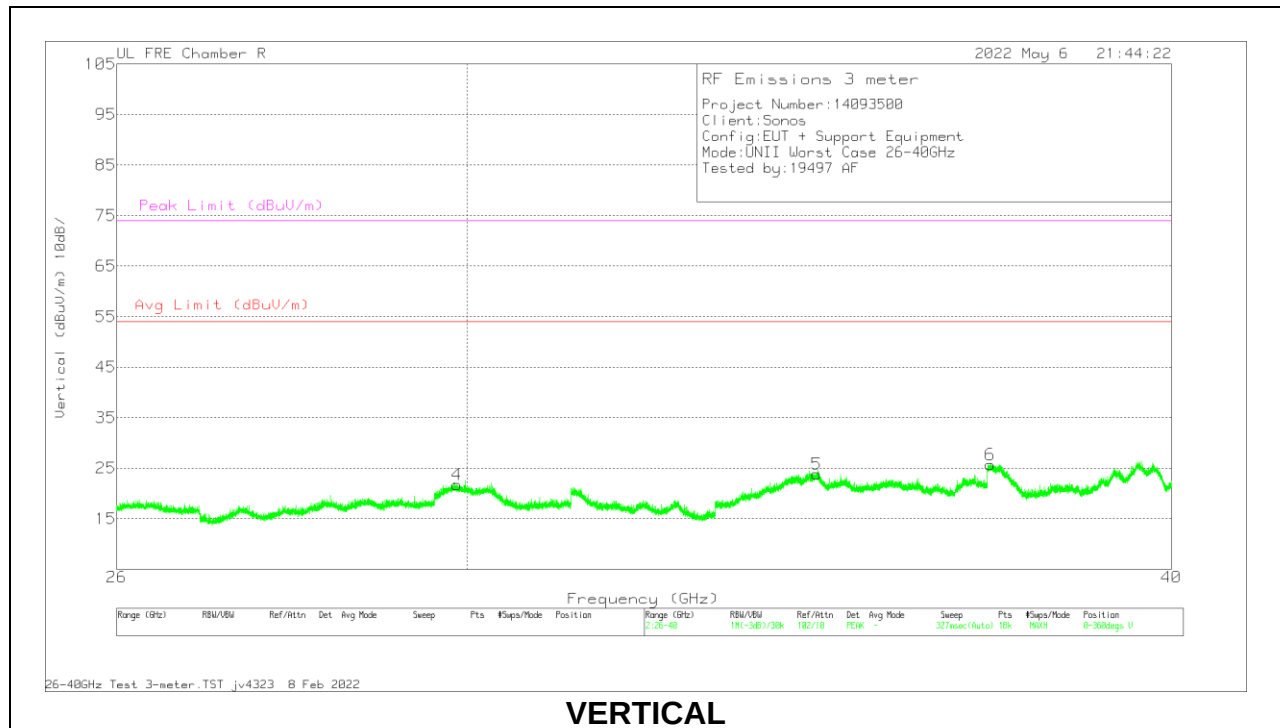
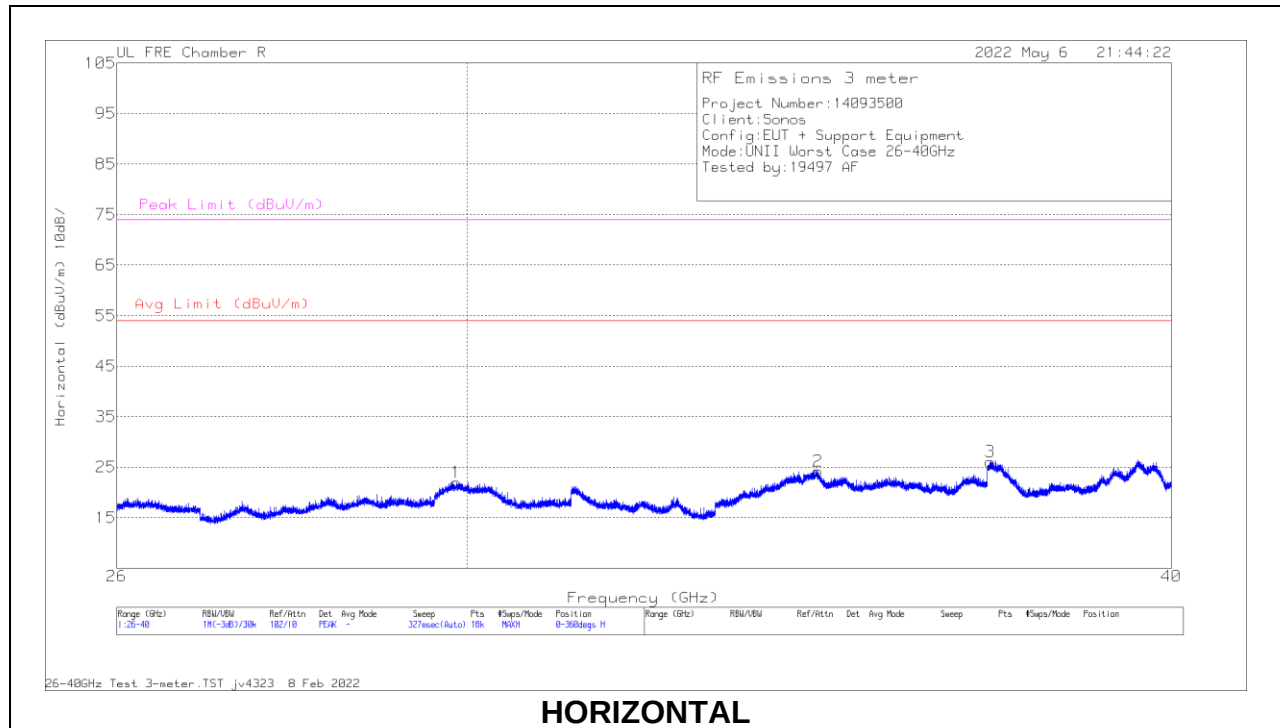
18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172363 AF (dB/m)	171583 Amp (dB)	Cables (dB)	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.321778	39.22	Pk	32.9	-65.5	14.4	21.02	74	-52.98	54	-32.98	0-360	100	H
4	* 19.321778	39.91	Pk	32.9	-65.5	14.4	21.71	74	-52.29	54	-32.29	0-360	99	V
5	* 22.017778	44.04	Pk	33.5	-65.1	15.4	27.84	74	-46.16	54	-26.16	0-360	99	V
2	22.005334	43.95	Pk	33.5	-65.1	15.4	27.75	74	-46.25	54	-26.25	0-360	100	H
6	24.686223	41.66	Pk	34.5	-64.2	16.3	28.26	74	-45.74	54	-25.74	0-360	99	V
3	24.700445	40.18	Pk	34.5	-64.1	16.3	26.88	74	-47.12	54	-27.12	0-360	100	H

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

Pk - Peak detector

10.5. WORST CASE 26-40 GHz



26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172366 AF (dB/m)	172346 Amp (dB)	Cables (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	29.865557	32.94	Avg	36.5	-65.6	18.1	21.94	54	-32.06	-	-	0-360	100	H
4	29.876446	32.67	Avg	36.5	-65.6	18.1	21.67	54	-32.33	-	-	0-360	200	V
5	34.602225	38.39	Avg	37.4	-71.7	19.7	23.79	54	-30.21	-	-	0-360	200	V
2	34.618558	38.96	Avg	37.4	-71.9	19.7	24.16	54	-29.84	-	-	0-360	100	H
6	37.14867	37.63	Avg	38.1	-70.6	20.6	25.73	54	-28.27	-	-	0-360	200	V
3	37.150225	37.96	Avg	38.1	-70.6	20.6	26.06	54	-27.94	-	-	0-360	100	H

Avg - Video bandwidth < Resolution bandwidth

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.

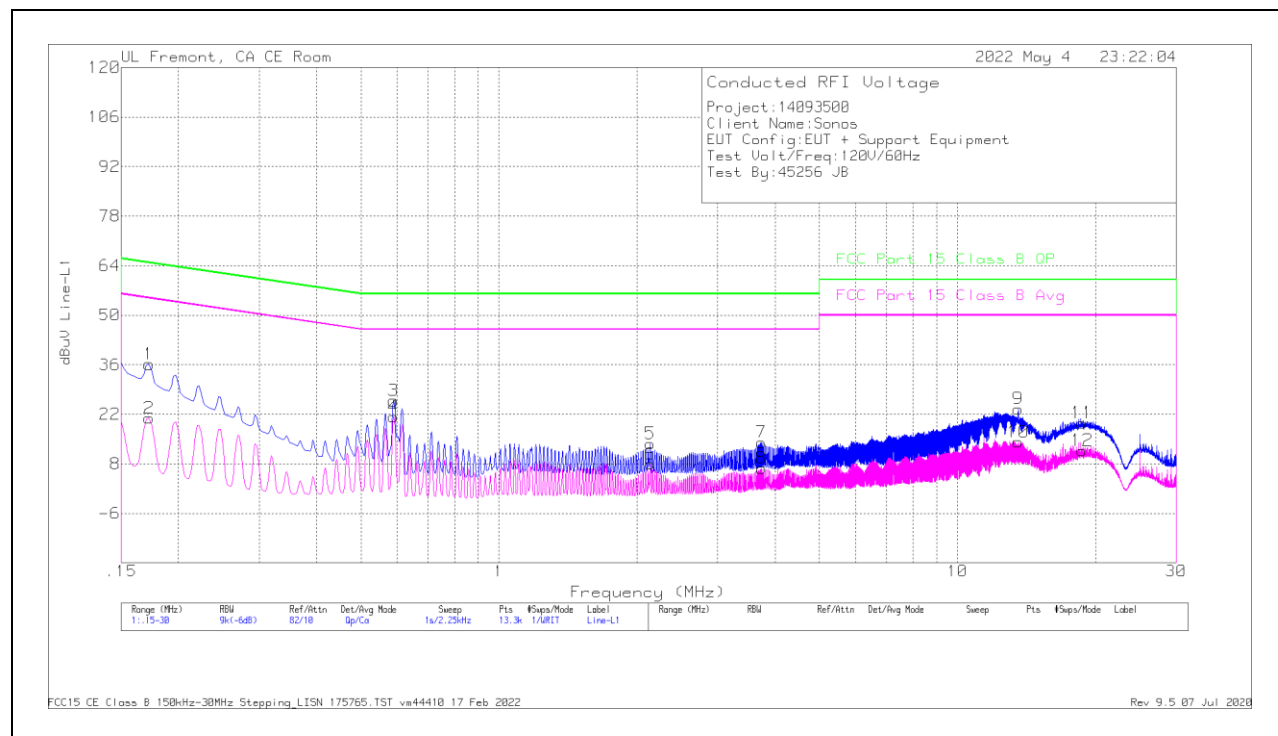
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

AC POWER LINE

LINE 1 RESULTS

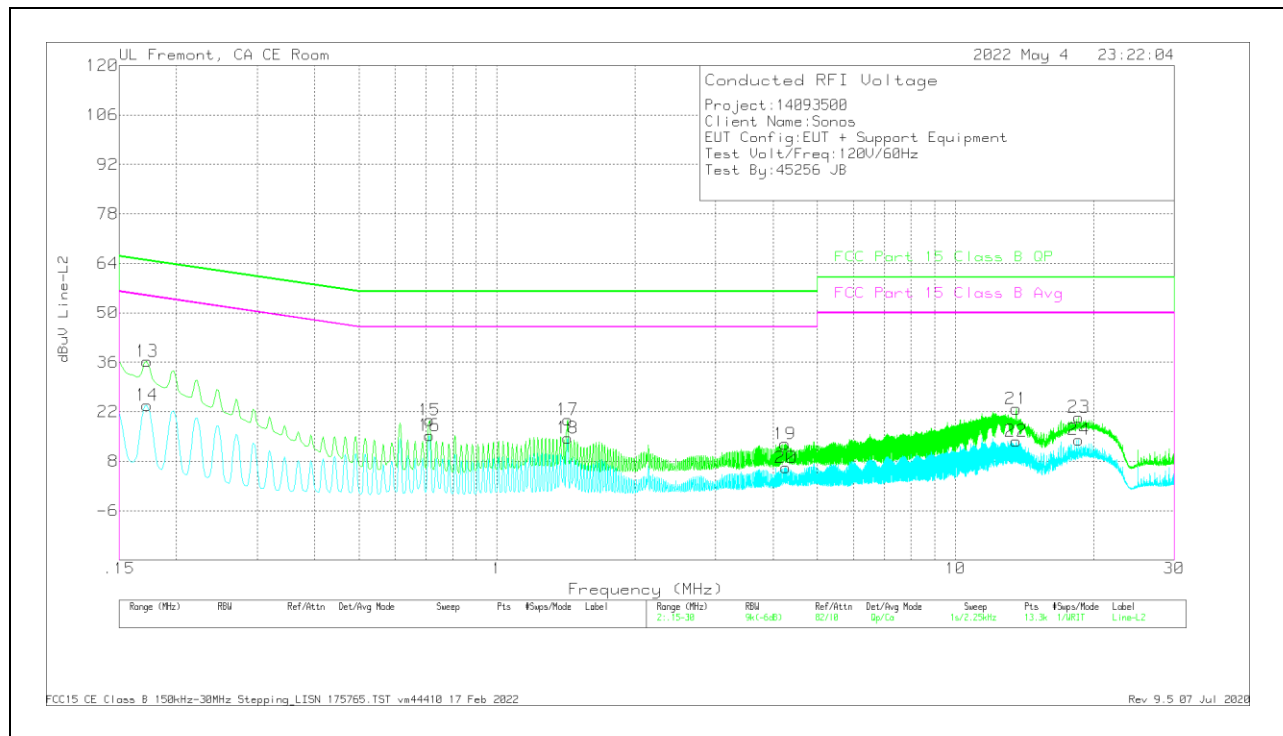


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L1	C1&C3 cable	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	FCC Part 15 Class B QP	QP Margin (dB)	FCC Part 15 Class B Avg	Av(CISPR)M argin (dB)
2	.1725	11.44	Ca	.1	0	9.4	20.94	-	-	54.84	-33.9
4	.58875	11.92	Ca	0	.1	9.3	21.32	-	-	46	-24.68
6	2.13675	-1.48	Ca	0	.1	9.3	7.92	-	-	46	-38.08
8	3.732	-2.63	Ca	0	.1	9.3	6.77	-	-	46	-39.23
10	13.56	4.56	Ca	.1	.2	9.3	14.16	-	-	50	-35.84
12	18.699	2.14	Ca	.1	.2	9.3	11.74	-	-	50	-38.26
1	.1725	26.66	Qp	.1	0	9.4	36.16	64.84	-28.68	-	-
3	.58875	16.44	Qp	0	.1	9.3	25.84	56	-30.16	-	-
5	2.13675	4.28	Qp	0	.1	9.3	13.68	56	-42.32	-	-
7	3.732	4.68	Qp	0	.1	9.3	14.08	56	-41.92	-	-
9	13.56	13.91	Qp	.1	.2	9.3	23.51	60	-36.49	-	-
11	18.699	9.98	Qp	.1	.2	9.3	19.58	60	-40.42	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L2	C2&C3 cable	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	FCC Part 15 Class B QP	QP Margin (dB)	FCC Part 15 Class B Avg	Av(CISPR)M argin (dB)
14	.1725	14.35	Ca	.1	0	9.4	23.85	-	-	54.84	-30.99
16	.7125	5.88	Ca	0	.1	9.3	15.28	-	-	46	-30.72
18	1.42575	5.14	Ca	0	.1	9.3	14.54	-	-	46	-31.46
20	4.26975	-3.22	Ca	0	.1	9.3	6.18	-	-	46	-39.82
22	13.56	4.08	Ca	.1	.2	9.3	13.68	-	-	50	-36.32
24	18.582	4.48	Ca	.1	.2	9.3	14.08	-	-	50	-35.92
13	.1725	26.74	Qp	.1	0	9.4	36.24	64.84	-28.6	-	-
15	.7125	10.21	Qp	0	.1	9.3	19.61	56	-36.39	-	-
17	1.42575	10.34	Qp	0	.1	9.3	19.74	56	-36.26	-	-
19	4.24725	3.46	Qp	0	.1	9.3	12.86	56	-43.14	-	-
21	13.56	13.24	Qp	.1	.2	9.3	22.84	60	-37.16	-	-
23	18.582	10.85	Qp	.1	.2	9.3	20.45	60	-39.55	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection