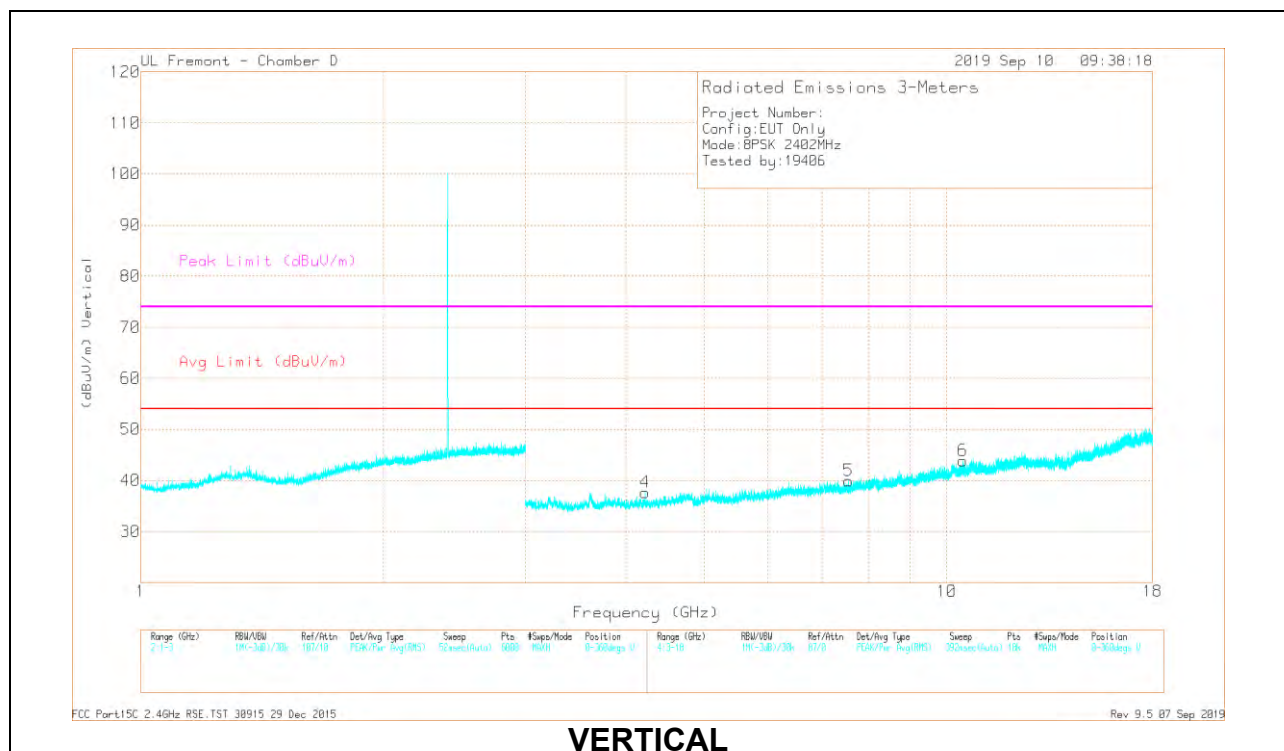
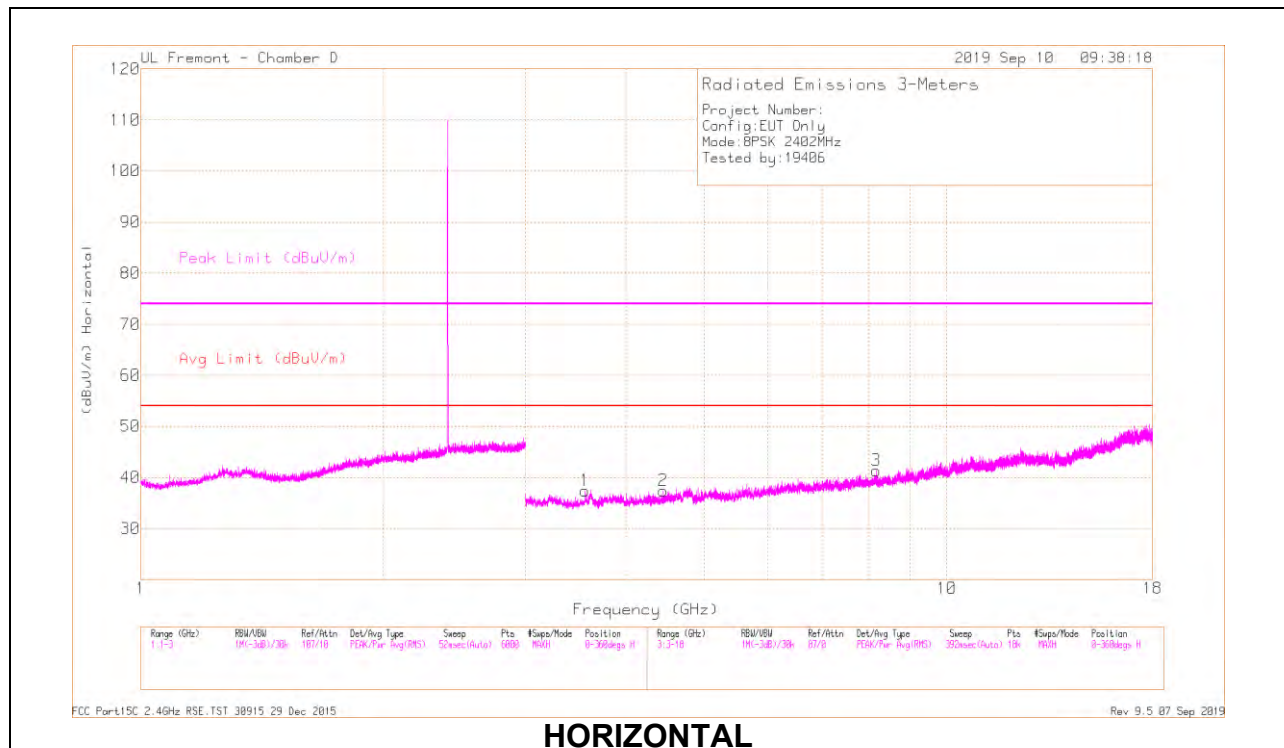


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



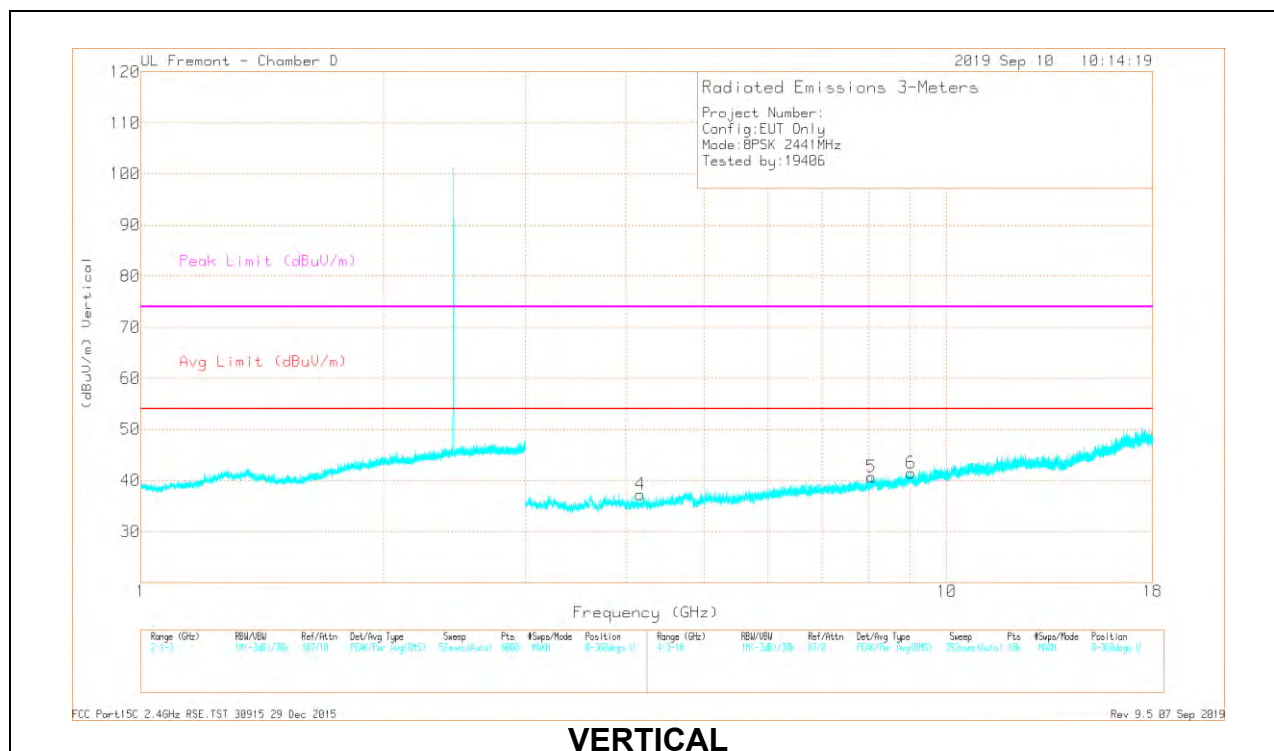
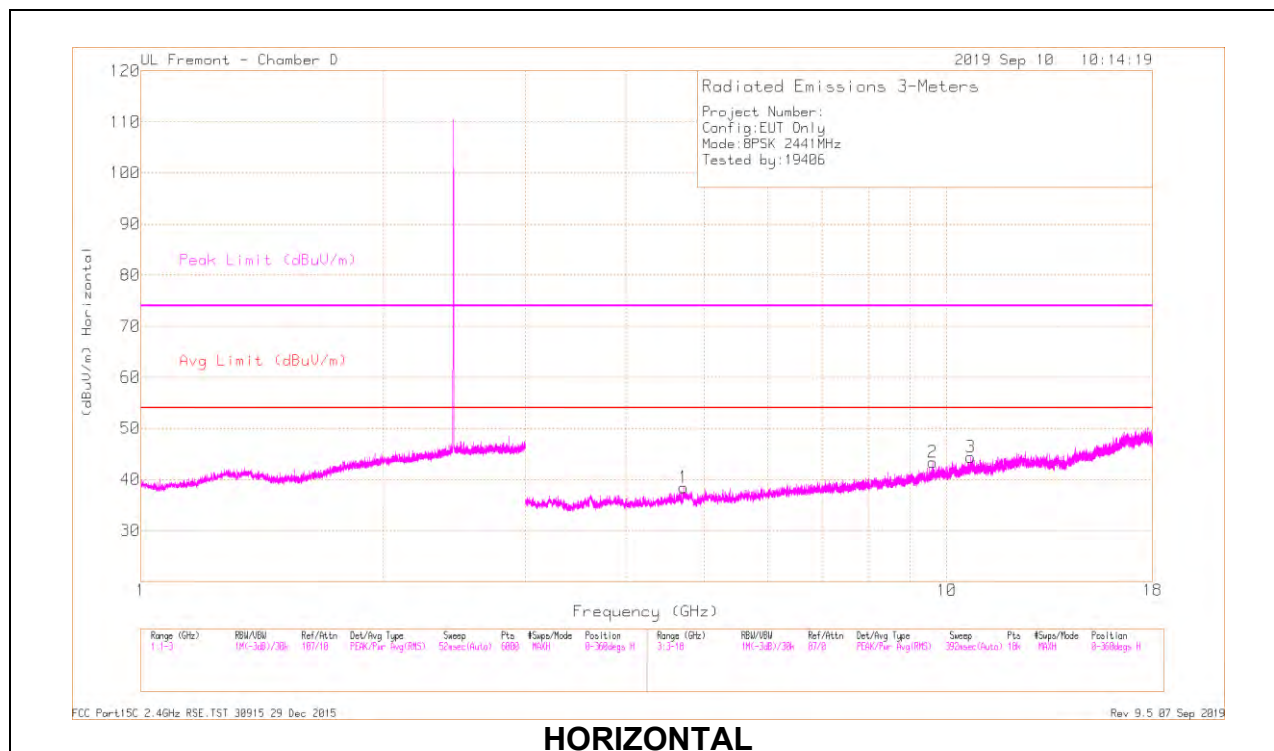
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 3.5562	37.26	PKFH	33	-27.8	42.46	-	-	74	-31.54	71	300	H
	* 3.55634	25.11	VA1T	33	-27.8	30.31	54	-23.69	-	-	71	300	H
3	* 8.17365	34.29	PKFH	35.8	-23.2	46.89	-	-	74	-27.11	231	212	H
	* 8.17473	20.66	VA1T	35.8	-23.2	33.26	54	-20.74	-	-	231	212	H
4	* 4.22239	37.67	PKFH	33.3	-27.4	43.57	-	-	74	-30.43	242	112	V
	* 4.22419	24.39	VA1T	33.3	-27.4	30.29	54	-23.71	-	-	242	112	V
5	* 7.55557	35.37	PKFH	35.5	-24.8	46.07	-	-	74	-27.93	65	110	V
	* 7.55631	21.56	VA1T	35.5	-24.9	32.16	54	-21.84	-	-	65	110	V
2	4.45119	37.4	PKFH	33.5	-27.3	43.6	-	-	-	-	242	212	H
6	10.47681	32.82	PKFH	37.5	-20.8	49.52	-	-	-	-	22	307	V

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

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

MID CHANNEL RESULTS



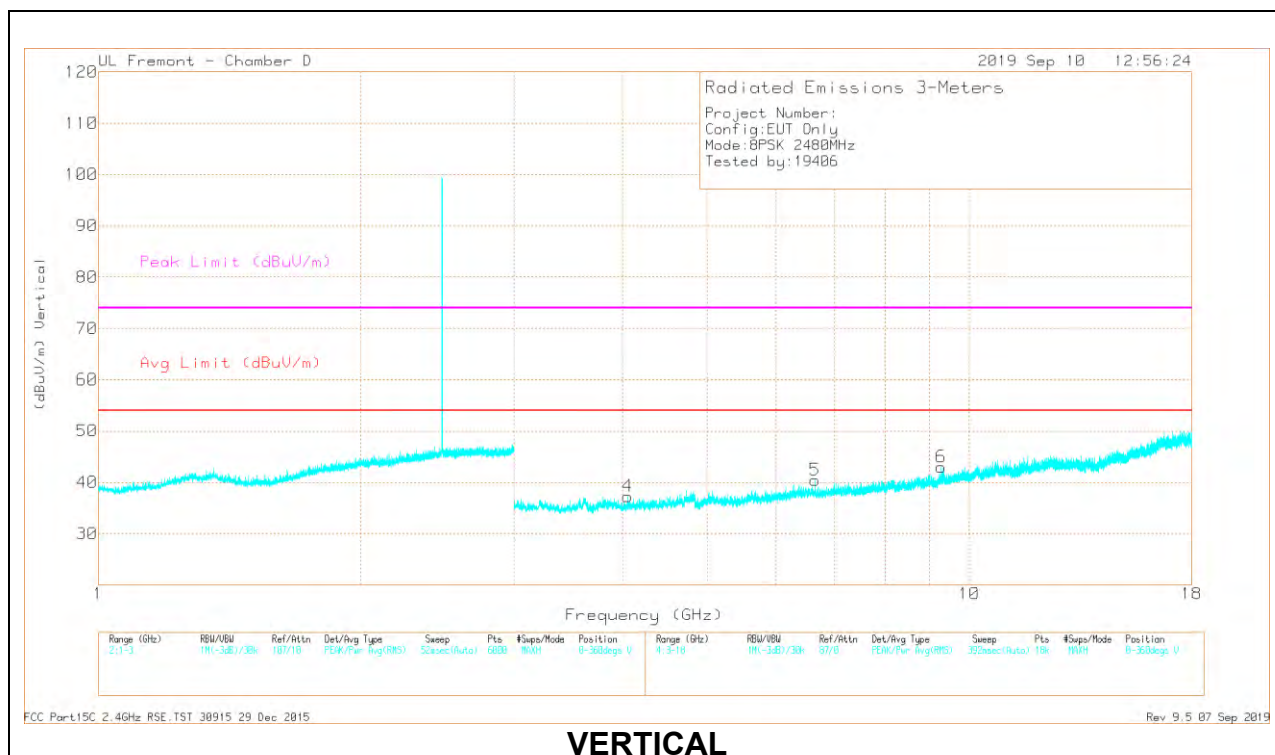
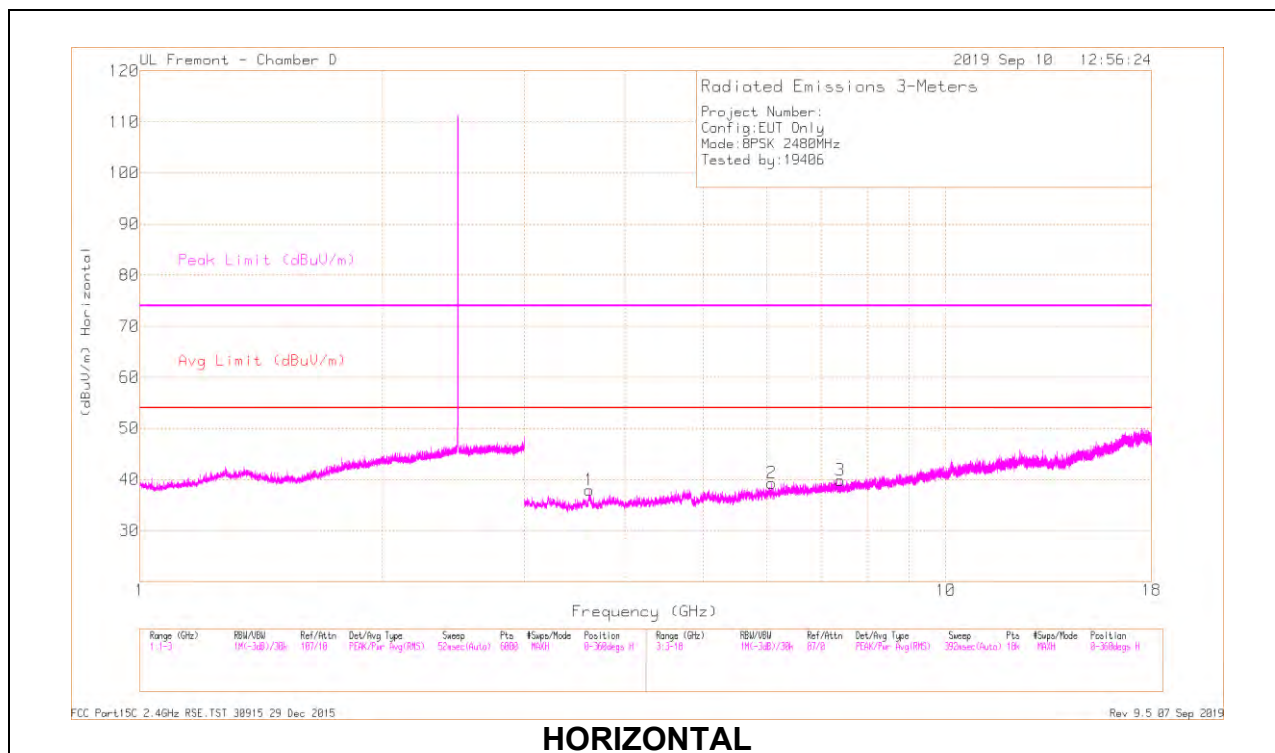
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 4.71873	36.66	PKFH	33.8	-26.7	43.76	-	-	74	-30.24	146	133	H
	* 4.71672	24.21	VA1T	33.9	-26.7	31.41	54	-22.59	-	-	146	133	H
3	* 10.70692	33.2	PKFH	37.8	-20.7	50.3	-	-	74	-23.7	78	266	H
	* 10.70686	17.71	VA1T	37.8	-20.7	34.81	54	-19.19	-	-	78	266	H
4	* 4.16675	37.21	PKFH	33.2	-27.8	42.61	-	-	74	-31.39	239	296	V
	* 4.16947	24.9	VA1T	33.3	-27.8	30.4	54	-23.6	-	-	239	296	V
5	* 8.06555	35.03	PKFH	35.7	-23.7	47.03	-	-	74	-26.97	263	248	V
	* 8.06811	21.41	VA1T	35.7	-23.7	33.41	54	-20.59	-	-	263	248	V
6	* 9.02674	33.83	PKFH	36	-21.9	47.93	-	-	74	-26.07	253	398	V
	* 9.02847	19.51	VA1T	36	-21.9	33.61	54	-20.39	-	-	253	398	V
2	9.6095	18.34	VA1T	36.7	-21.3	33.74	-	-	-	-	7	306	H
	9.61222	33.31	PKFH	36.7	-21.3	48.71	-	-	-	-	7	306	H

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

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 3.61359	37.61	PKFH	33.5	-28.1	43.01	-	-	74	-30.99	241	252	H
	* 3.61141	25.21	VA1T	33.3	-28.1	30.41	54	-23.59	-	-	241	252	H
3	* 7.40042	34.66	PKFH	35.5	-24.8	45.36	-	-	74	-28.64	164	121	H
	* 7.40265	21.47	VA1T	35.5	-24.8	32.17	54	-21.83	-	-	164	121	H
4	* 4.05096	37.83	PKFH	33.5	-28.2	43.13	-	-	74	-30.87	355	124	V
	* 4.05415	25.15	VA1T	33.5	-28.2	30.45	54	-23.55	-	-	355	124	V
2	6.08191	36.05	PKFH	35.2	-27.1	44.15	-	-	-	-	6	236	H
	6.08328	23.68	VA1T	35.2	-27.1	31.78	-	-	-	-	6	236	H
5	6.64996	23.06	VA1T	35.6	-25.9	32.76	-	-	-	-	96	122	V
	6.65019	36.58	PKFH	35.6	-25.9	46.28	-	-	-	-	96	122	V
6	9.28442	33.64	PKFH	36.3	-20.9	49.04	-	-	-	-	1	182	V
	9.28474	18.17	VA1T	36.3	-20.9	33.57	-	-	-	-	1	182	V

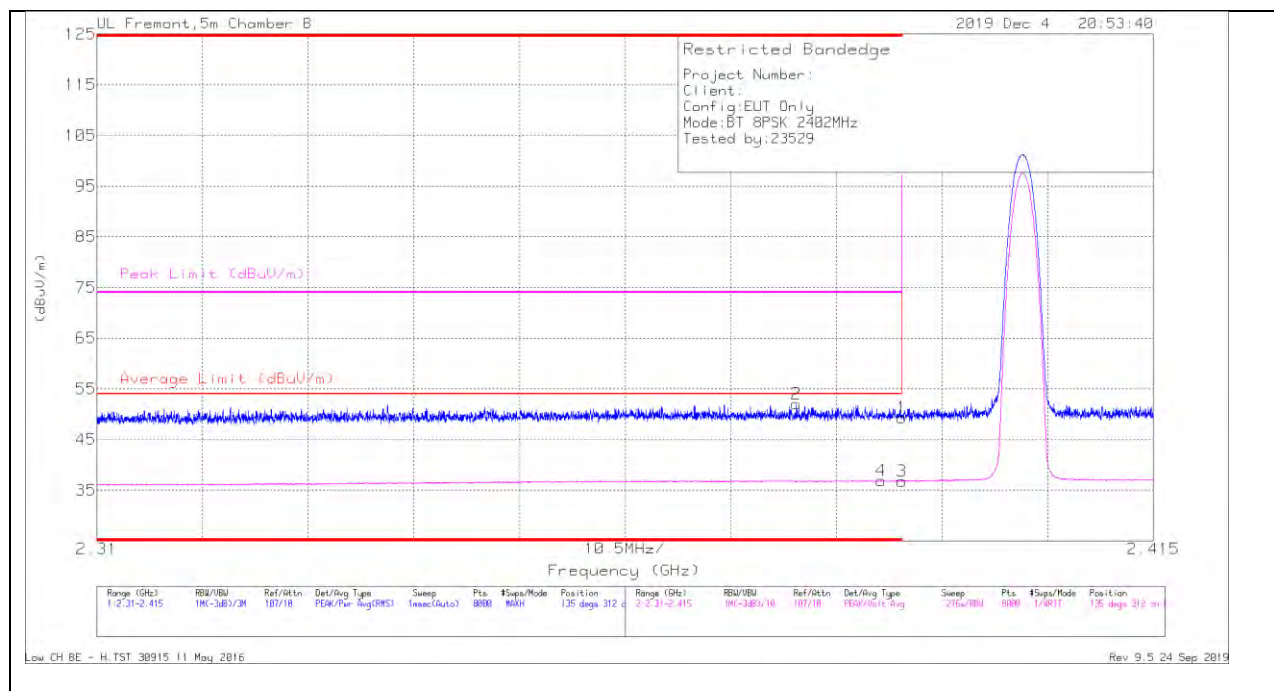
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

LAT 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dBm)	Amp/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
2	* 2.37952	40.82	Pk	30.2	-19	52.02	-	-	74	-21.98	135	312	H
4	* 2.38795	25.67	VA1T	30.3	-19.1	36.87	54	-17.13	-	-	135	312	H
1	* 2.39	38	Pk	30.3	-19	49.3	-	-	74	-24.7	135	312	H
3	* 2.39	25.51	VA1T	30.3	-19	36.81	54	-17.19	-	-	135	312	H

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

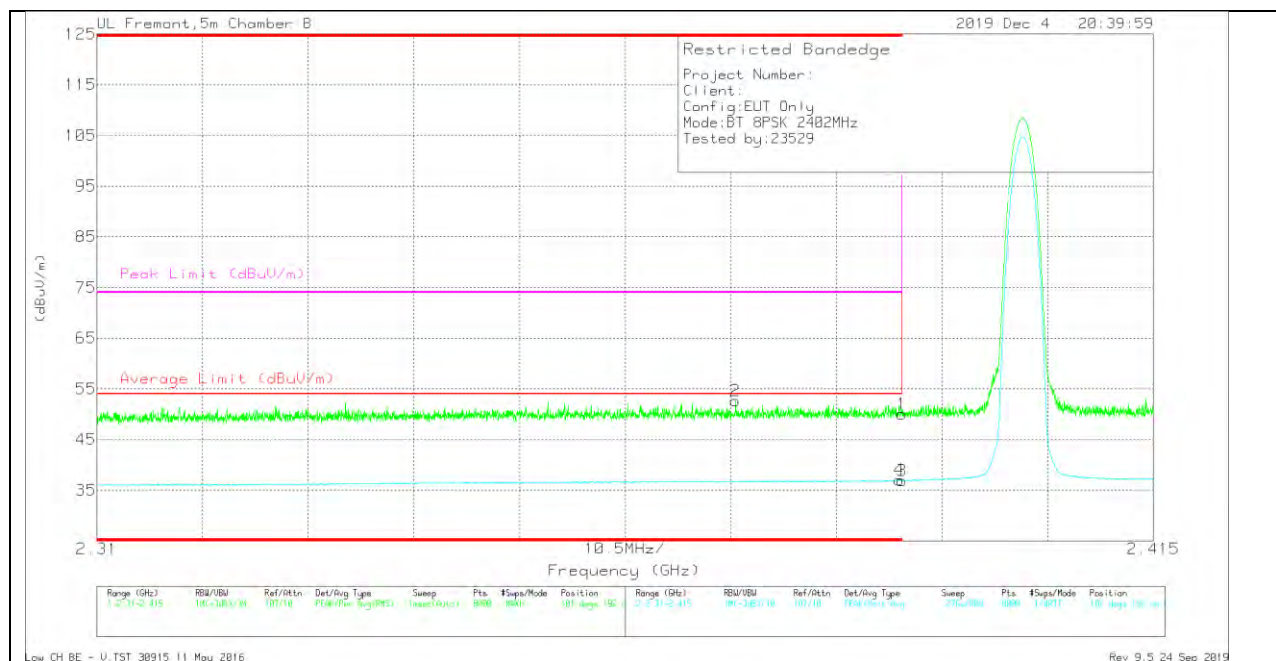
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (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	38.75	Pk	30.3	-19	50.05	-	-	74	-23.95	101	192	V
2	* 2.37347	41.5	Pk	30.2	-19.1	52.6	-	-	74	-21.4	101	192	V
3	* 2.39	25.61	VA1T	30.3	-19	36.91	54	-17.09	-	-	101	192	V
4	* 2.38973	25.69	VA1T	30.3	-19	36.99	54	-17.01	-	-	101	192	V

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

PK - Peak detector

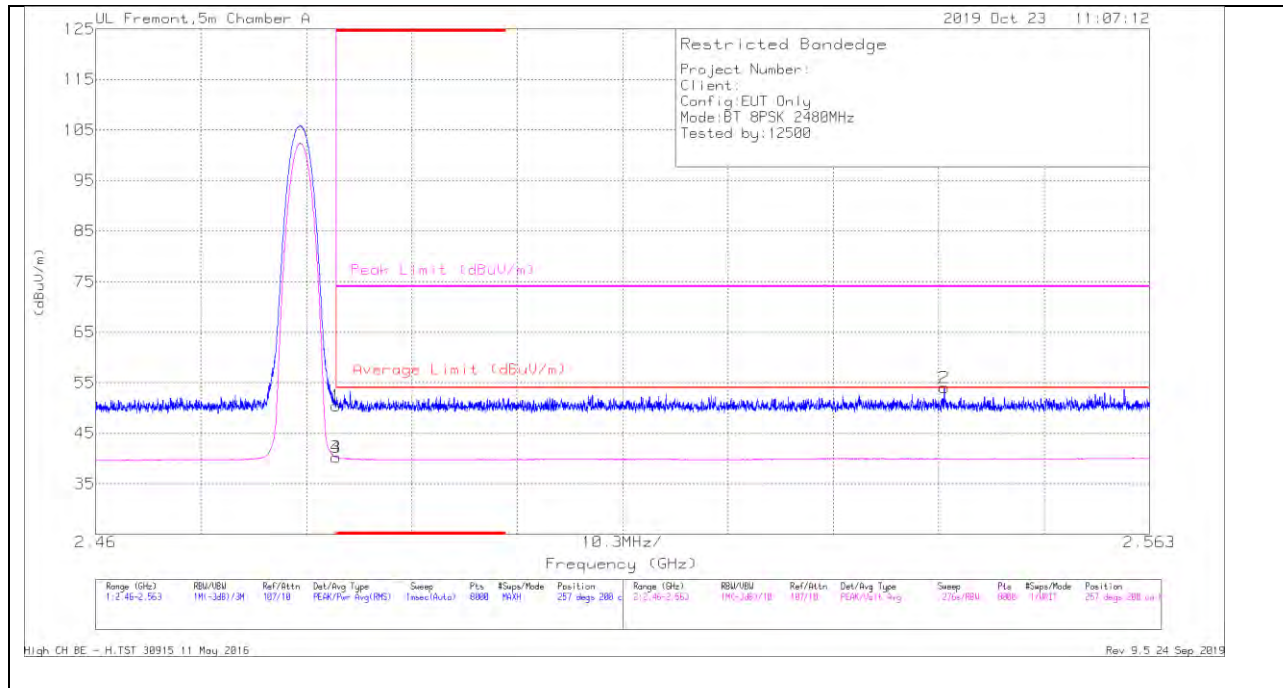
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low CH BE - V.TST 30915 11 May 2016

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt/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	* 2.4835	39.91	Pk	32.6	-22.1	50.41	-	-	74	-23.59	257	200	H
3	* 2.4835	29.72	VA1T	32.6	-22.1	40.22	54	-13.78	-	-	257	200	H
4	* 2.4835	29.73	VA1T	32.6	-22.1	40.23	54	-13.77	-	-	257	200	H
2	2.54295	43.17	Pk	32.6	-21.8	53.97	-	-	74	-20.03	257	200	H

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

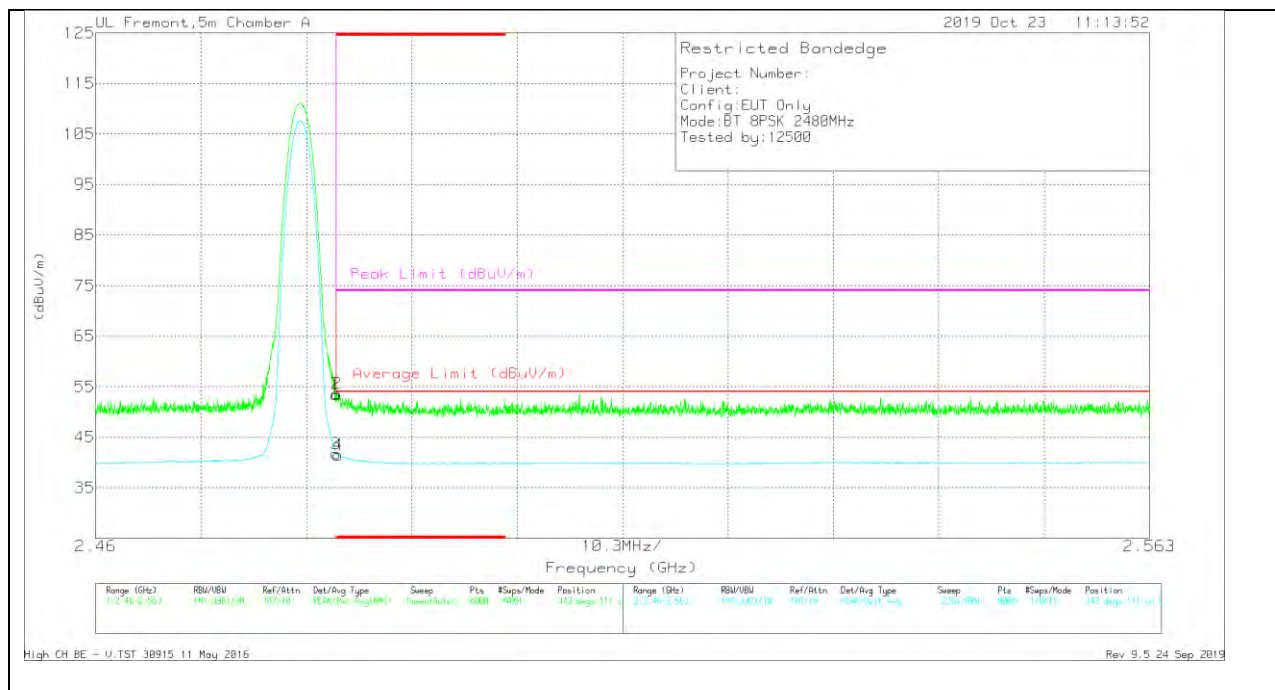
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AFT346 (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	* 2.4835	42.87	Pk	32.6	-22.1	53.37	-	-	74	-20.63	343	111	V
2	* 2.48358	43.2	Pk	32.6	-22.1	53.7	-	-	74	-20.3	343	111	V
3	* 2.4835	31.25	VA1T	32.6	-22.1	41.75	54	-12.25	-	-	343	111	V
4	* 2.48369	30.99	VA1T	32.6	-22.1	41.49	54	-12.51	-	-	343	111	V

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

Pk - Peak detector

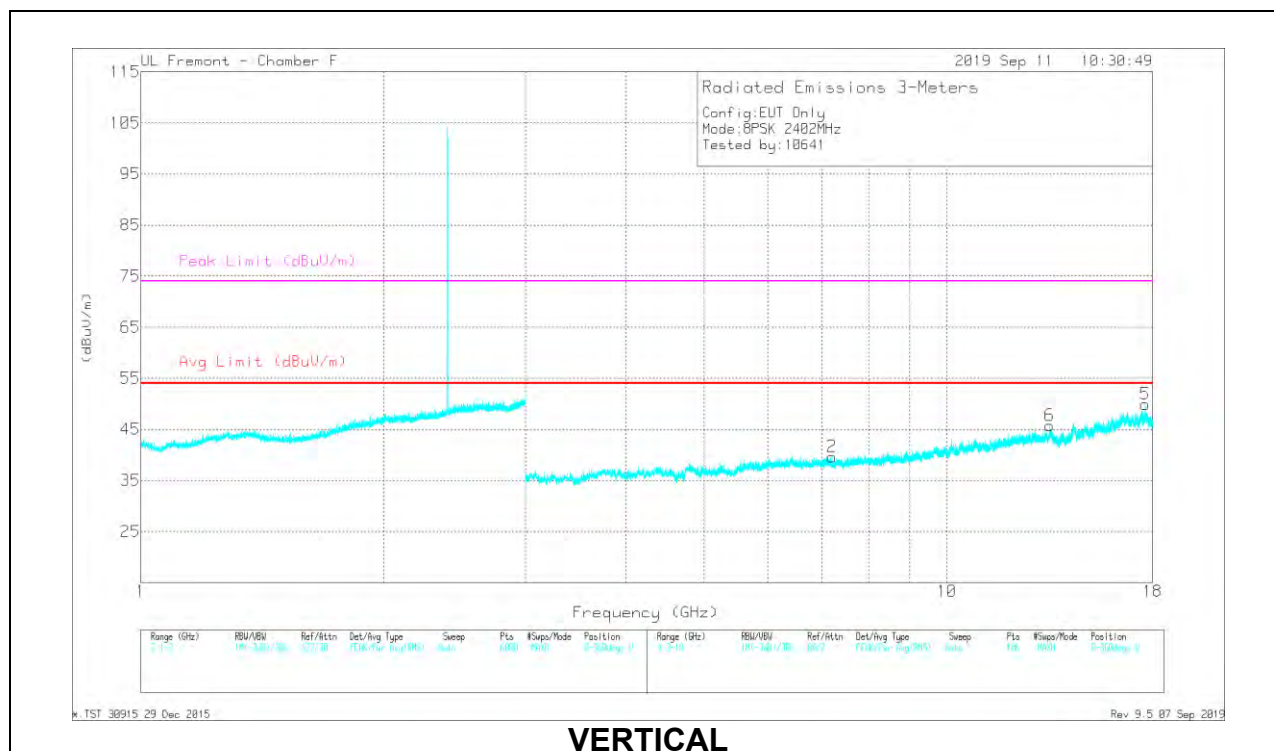
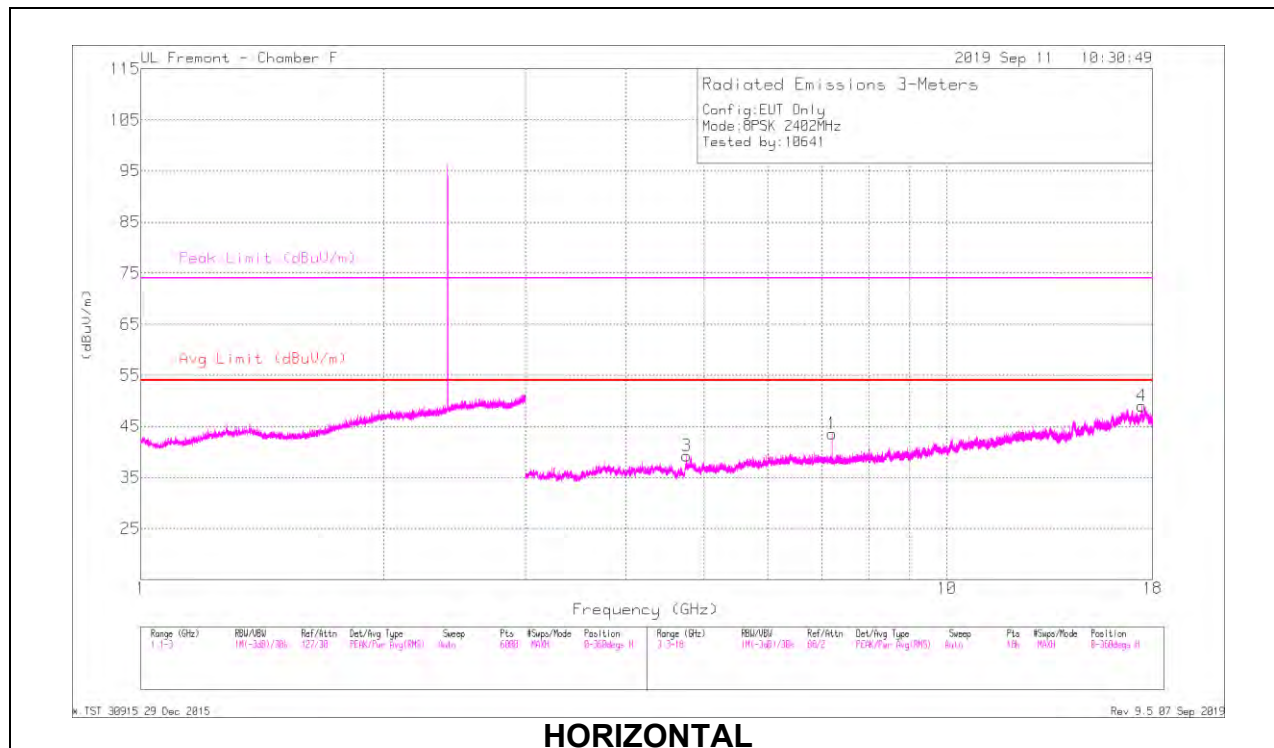
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



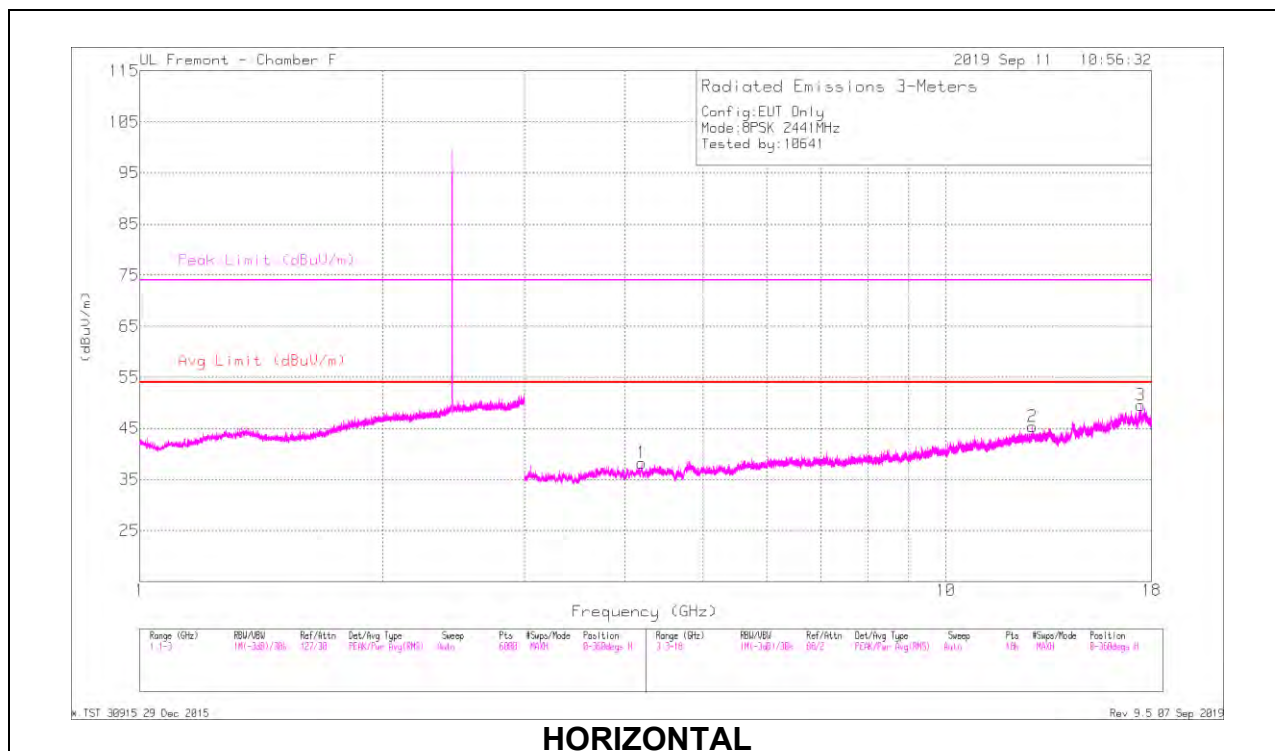
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	7.20603	57.43	PKFH	35.5	-41	51.93	-	-	74	-22.07	263	222	H
4	17.45294	49.32	PKFH	41.5	-36.4	54.42	-	-	74	-19.58	290	249	H
3	* 4.7539	52.56	PKFH	34.1	-44.2	42.46	-	-	74	-31.54	303	263	H
	* 4.75626	41.46	VA1T	34.1	-44.2	31.36	54	-22.64	-	-	303	263	H
2	7.20567	55.24	PKFH	35.5	-41	49.74	-	-	74	-24.26	263	185	V
5	17.63261	51.05	PKFH	41.6	-36	56.65	-	-	74	-17.35	282	216	V
6	13.41672	49.29	PKFH	39.2	-38.2	50.29	-	-	74	-23.71	303	242	V

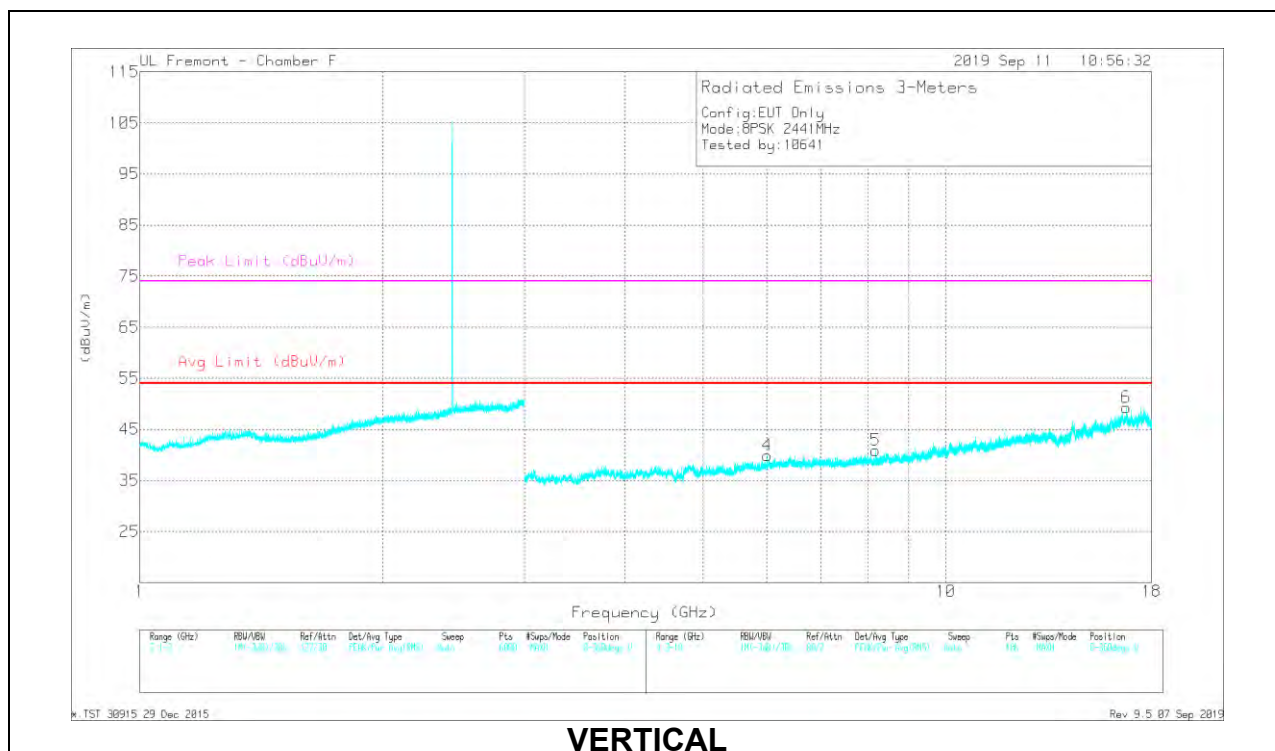
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

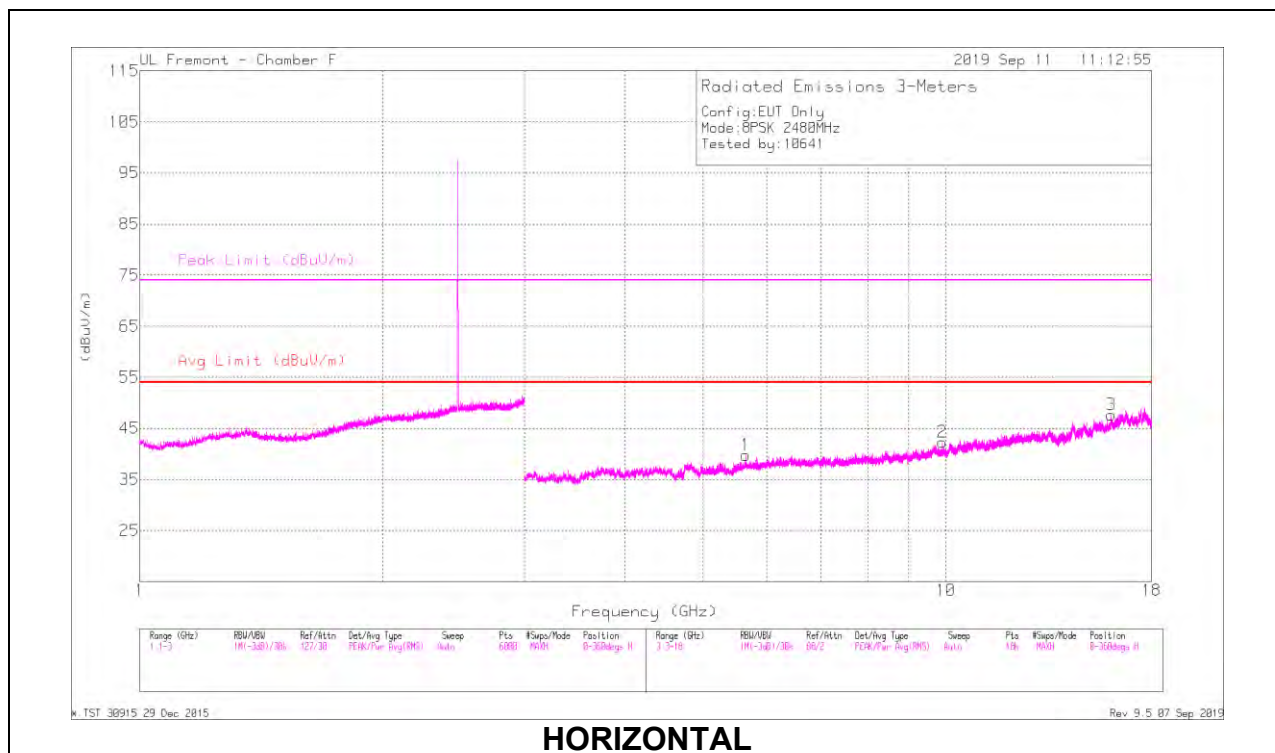
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	* 4.19696	54.27	PKFH	33.6	-43.9	43.97	-	-	74	-30.03	313	115	H
	* 4.19675	41.61	VA1T	33.6	-43.9	31.31	54	-22.69	-	-	313	115	H
2	12.80533	49.13	PKFH	39.2	-38.6	49.73	-	-	74	-24.27	223	122	H
3	17.45249	48.6	PKFH	41.5	-36.4	53.7	-	-	-	-20.3	240	139	H
5	* 8.1768	49.06	PKFH	35.9	-39.7	45.26	-	-	74	-28.74	247	105	V
	* 8.17712	37.33	VA1T	35.9	-39.7	33.53	54	-20.47	-	-	247	105	V
4	6.00759	50.25	PKFH	35.4	-41	44.65	-	-	74	-29.35	214	155	V
6	16.74023	49.9	PKFH	41.9	-37.3	54.5	-	-	74	-19.5	311	174	V

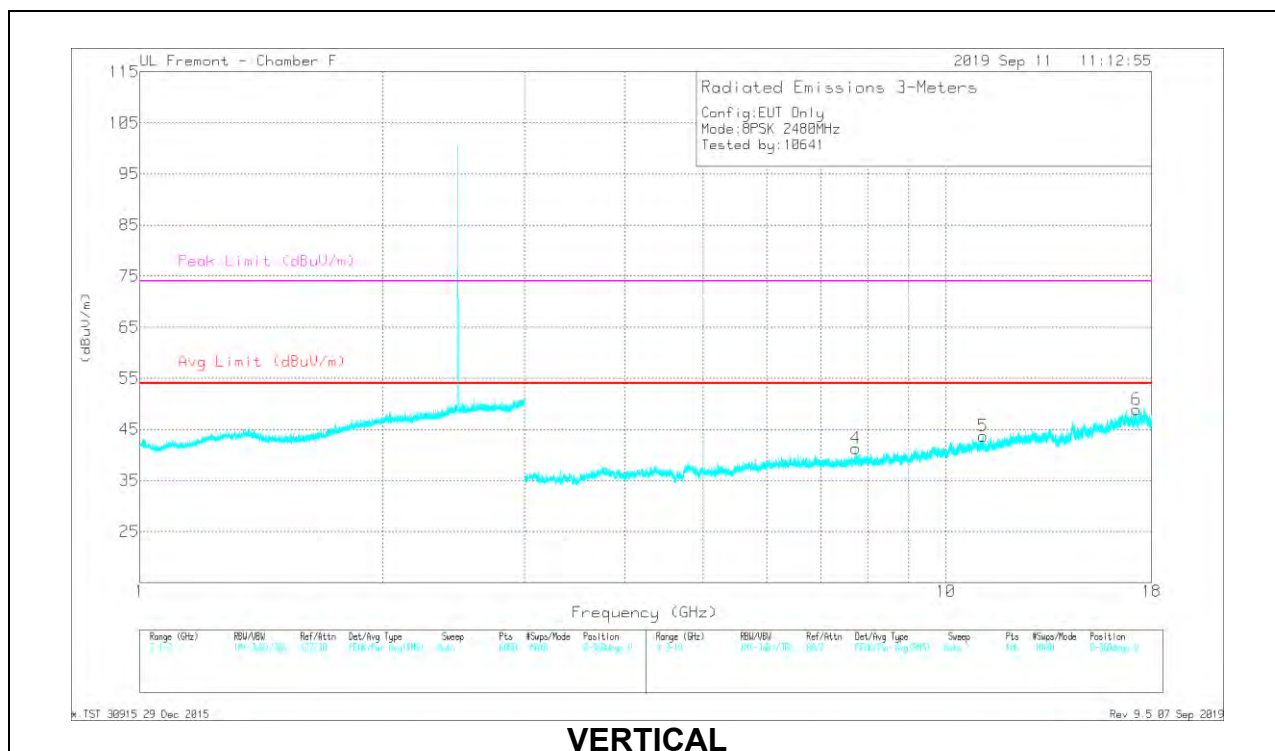
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	5.64082	51.35	PKFH	35	-41.7	44.65	-	-	-	-	261	127	H
2	9.90525	49.15	PKFH	36.9	-39.9	46.15	-	-	-	-	228	139	H
3	* 16.04306	49.73	PKFH	40.8	-37.1	53.43	-	-	74	-20.57	273	117	H
	* 16.04332	37.99	VA1T	40.8	-37.1	41.69	54	-12.31	-	-	273	117	H
4	* 7.73728	50.15	PKFH	35.9	-40.1	45.95	-	-	74	-28.05	328	116	V
	* 7.73848	37.91	VA1T	35.9	-40	33.81	54	-20.19	-	-	328	116	V
5	* 11.12325	48.22	PKFH	37.9	-38.3	47.82	-	-	74	-26.18	270	131	V
	* 11.12296	37	VA1T	37.9	-38.3	36.6	54	-17.4	-	-	270	131	V
6	17.23059	49.62	PKFH	41.3	-37.6	53.32	-	-	74	-20.68	230	151	V

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

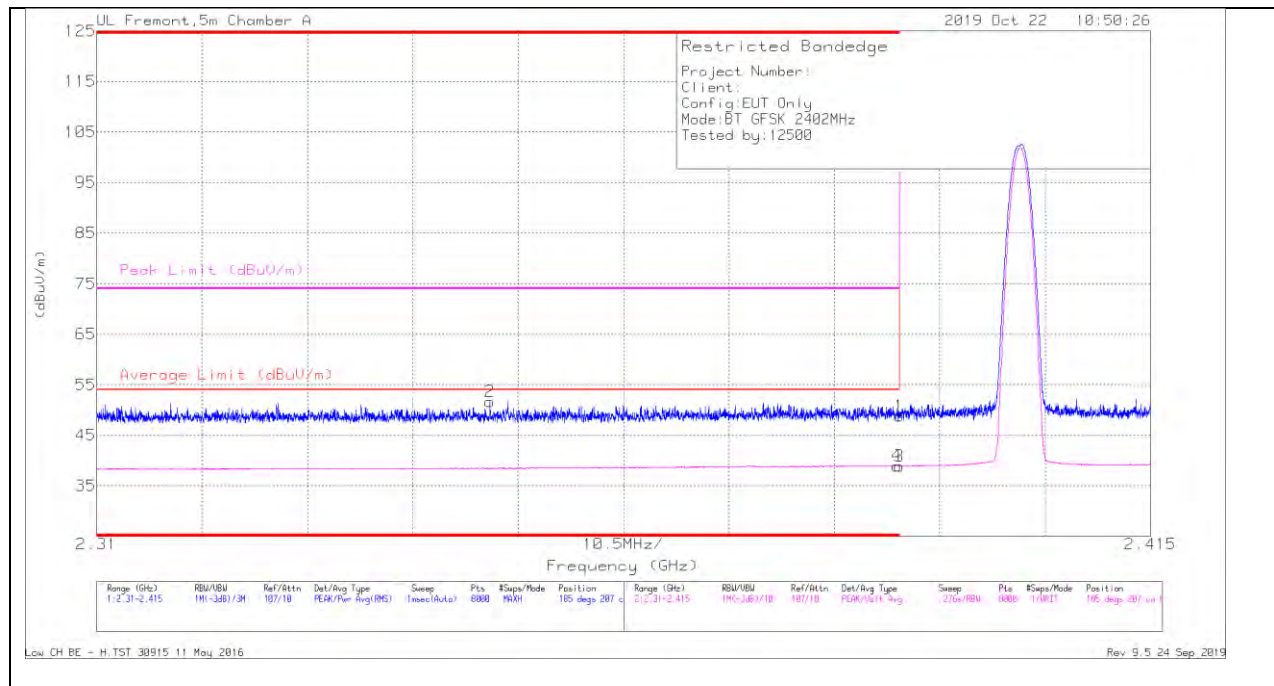
VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

UAT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	38.87	Pk	32.2	-22.3	48.77	-	-	74	-25.23	185	207	H
2	* 2.34917	42.2	Pk	31.9	-22.4	51.7	-	-	74	-22.3	185	207	H
3	* 2.39	28.98	VA1T	32.2	-22.3	38.88	54	-15.12	-	-	185	207	H
4	* 2.38971	29.03	VA1T	32.2	-22.3	38.93	54	-15.07	-	-	185	207	H

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

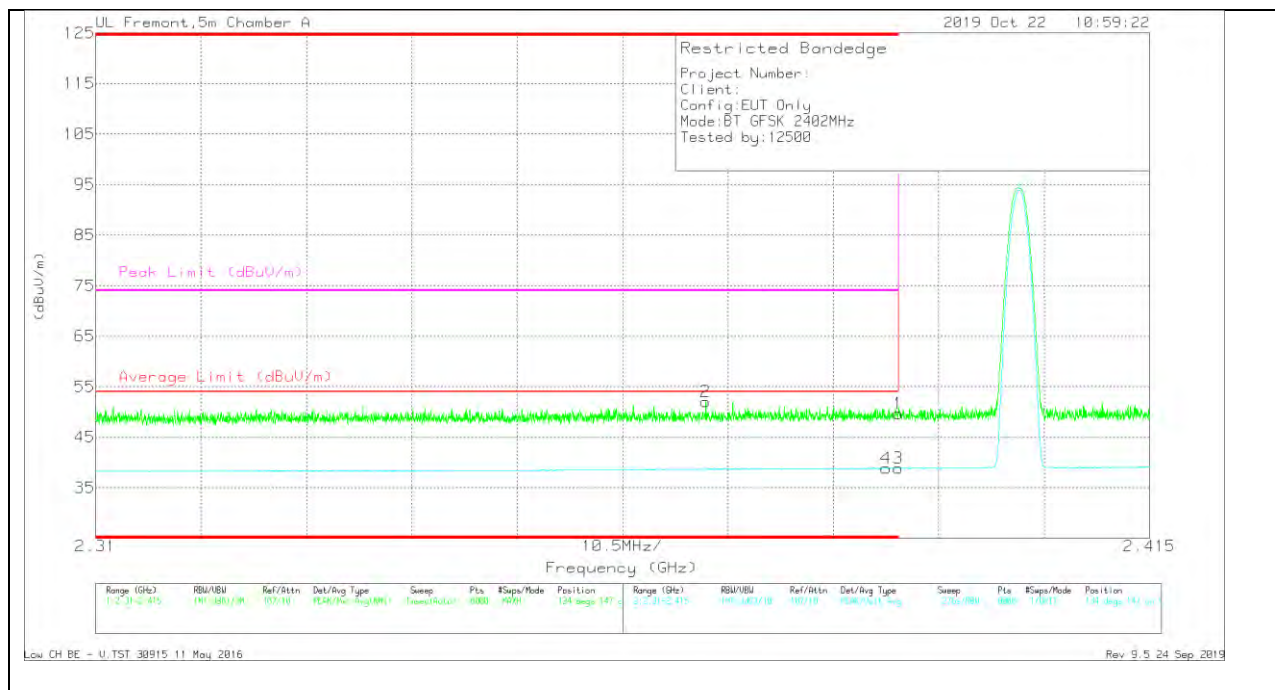
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dBm)	Amp/Cb/Filt/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
2	* 2.37079	42.34	Pk	32.1	-22.4	52.04	-	-	74	-21.96	134	147	V
4	* 2.38876	28.97	VA1T	32.2	-22.3	38.87	54	-15.13	-	-	134	147	V
1	* 2.39	39.77	Pk	32.2	-22.3	49.67	-	-	74	-24.33	134	147	V
3	* 2.39	28.94	VA1T	32.2	-22.3	38.84	54	-15.16	-	-	134	147	V

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

Pk - Peak detector

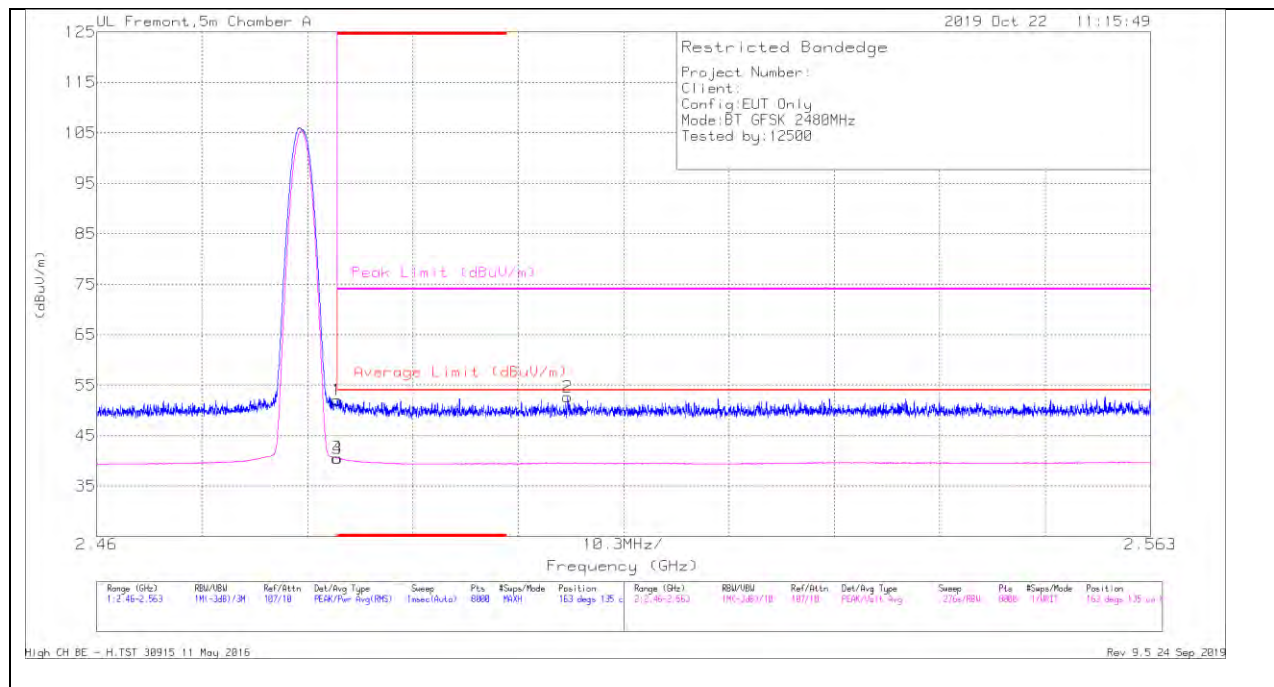
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.4835	41.48	Pk	32.6	-22.1	51.98	-	-	74	-22.02	163	135	H
3	* 2.4835	30.04	VA1T	32.6	-22.1	40.54	54	-13.46	-	-	163	135	H
4	* 2.4835	30.04	VA1T	32.6	-22.1	40.54	54	-13.46	-	-	163	135	H
2	2.50602	41.93	Pk	32.7	-22	52.63	-	-	74	-21.37	163	135	H

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

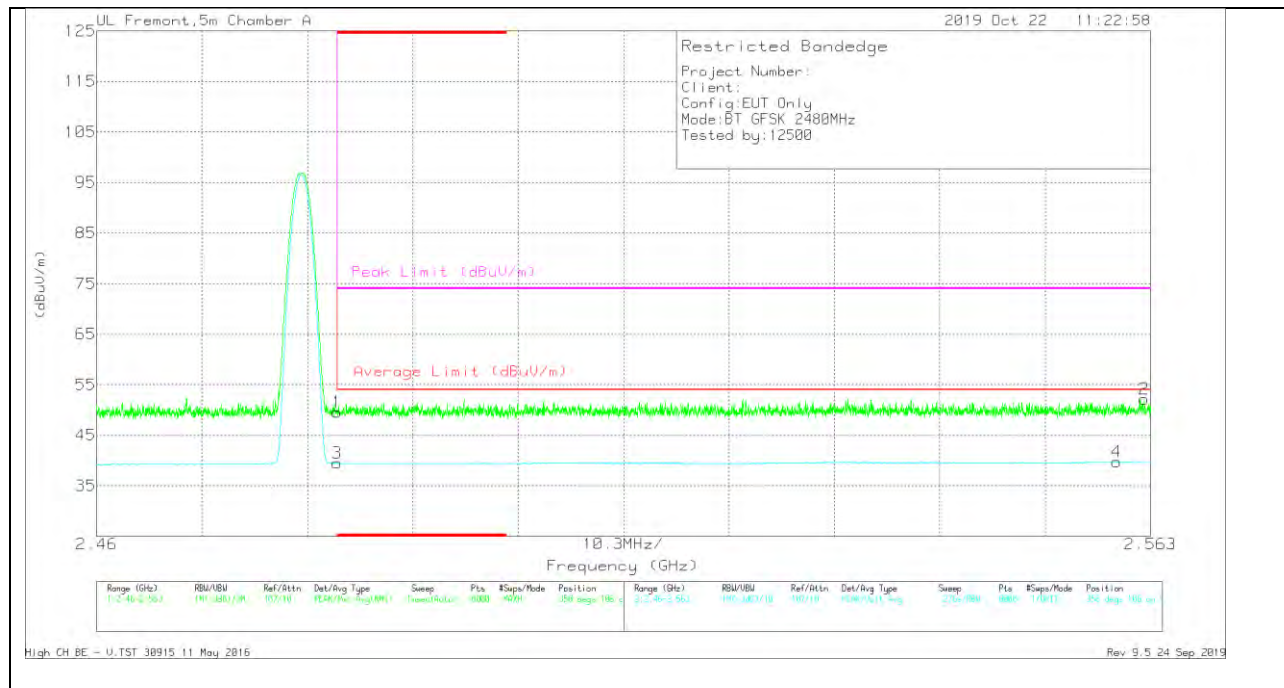
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 2.4835	39.09	Pk	32.6	-22.1	49.59	-	-	74	-24.41	358	106	V
3	* 2.4835	28.94	VA1T	32.6	-22.1	39.44	54	-14.56	-	-	358	106	V
4	2.55967	28.79	VA1T	32.6	-21.7	39.69	54	-14.31	-	-	358	106	V
2	2.5624	41.27	Pk	32.6	-21.7	52.17	-	-	74	-21.83	358	106	V

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

Pk - Peak detector

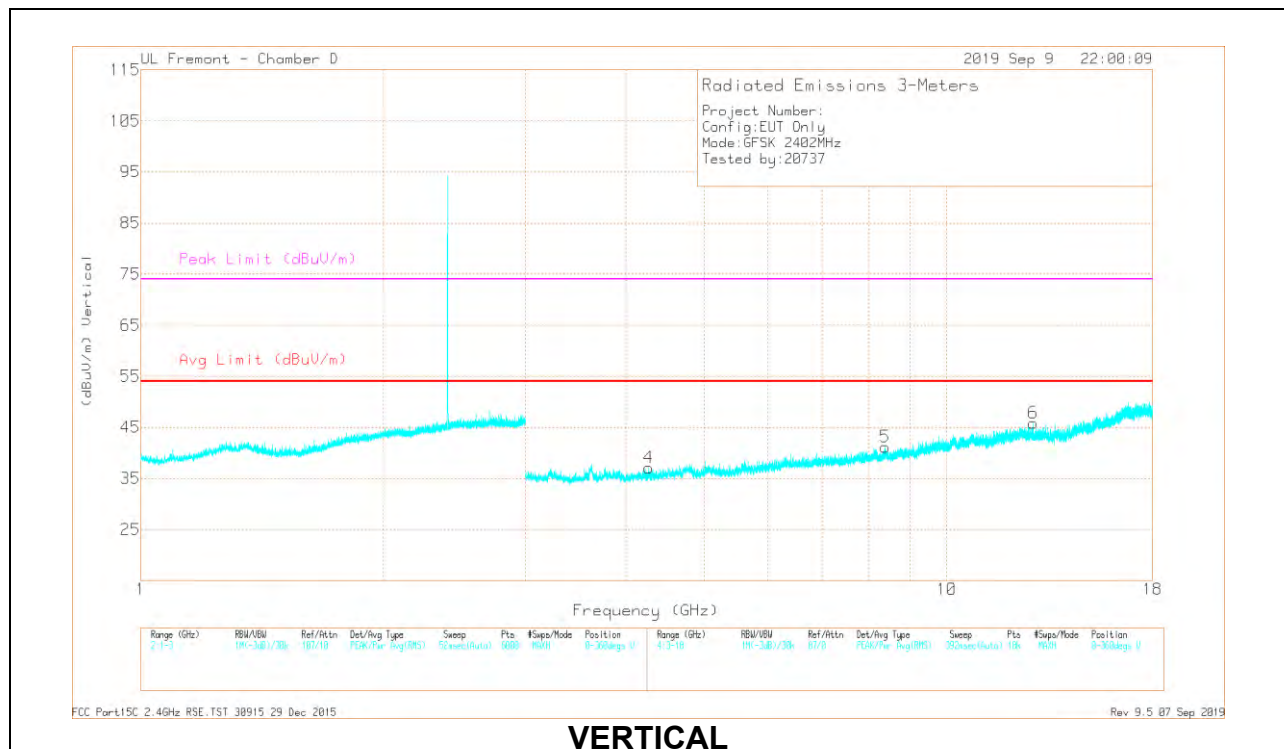
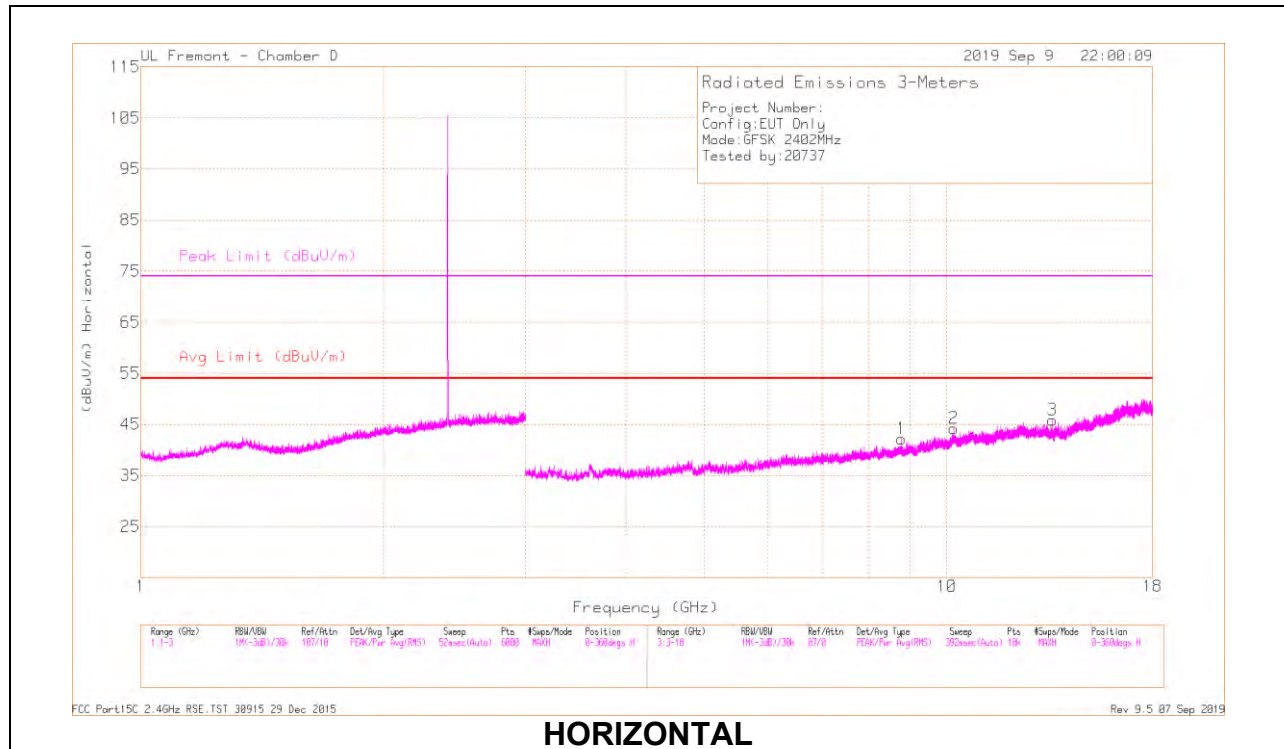
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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Rev 9.5 24 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



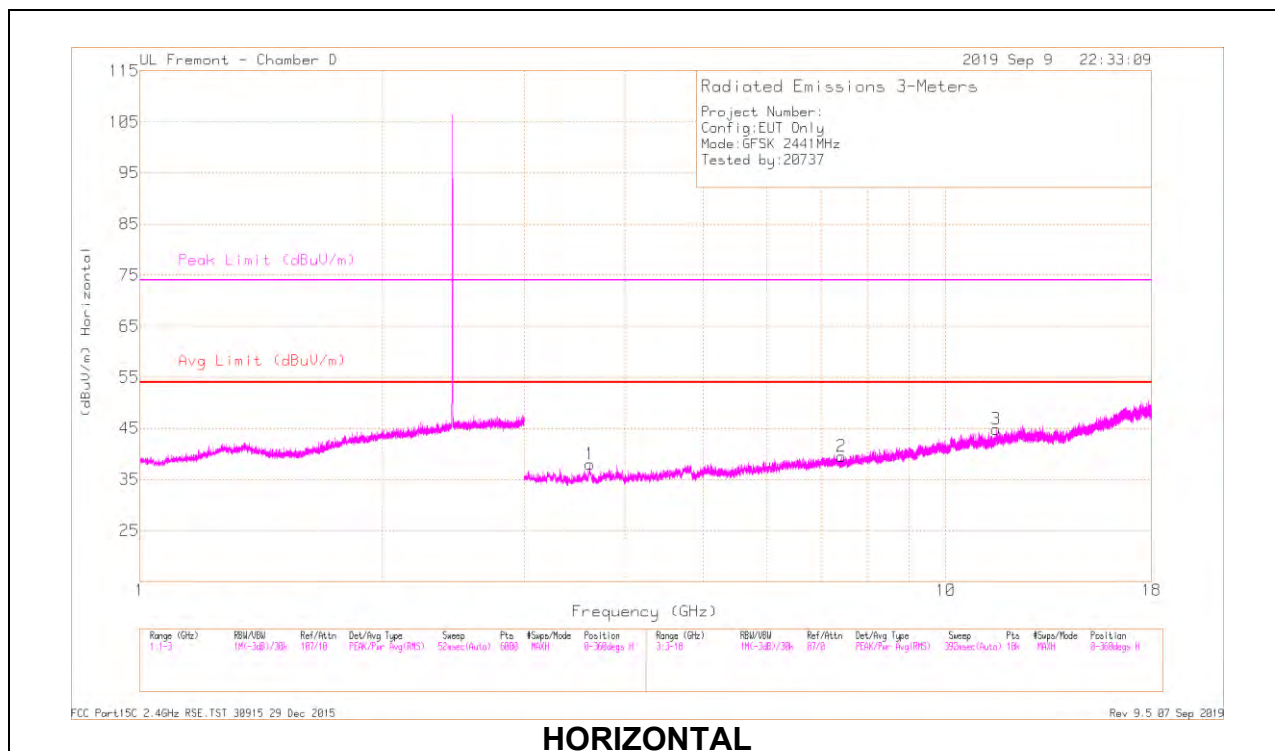
RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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
4	* 4.26928	38.7	PKFH	33.3	-27.6	44.4	-	-	74	-29.6	229	255	V
	* 4.26994	25.21	VA1T	33.3	-27.6	30.91	54	-23.09	-	-	229	255	V
5	* 8.38364	34.41	PKFH	35.8	-22.8	47.41	-	-	74	-26.59	276	310	V
	* 8.38351	20.53	VA1T	35.8	-22.8	33.53	54	-20.47	-	-	276	310	V
1	8.78143	34.03	PKFH	35.9	-22.5	47.43	-	-	-	-	55	141	H
	8.78447	19.84	VA1T	35.9	-22.6	33.14	-	-	-	-	55	141	H
2	10.20311	32.68	PKFH	37.1	-19.8	49.98	-	-	-	-	100	156	H
	10.20634	17.03	VA1T	37	-19.8	34.23	-	-	-	-	100	156	H
6	12.79595	33.51	PKFH	39	-22.1	50.41	-	-	-	-	209	188	V
	12.79639	20.14	VA1T	39	-22.1	37.04	-	-	-	-	209	188	V
3	13.53244	20.35	VA1T	38.8	-22.2	36.95	-	-	-	-	149	241	H
	13.53446	33.91	PKFH	38.8	-22.1	50.61	-	-	-	-	149	241	H

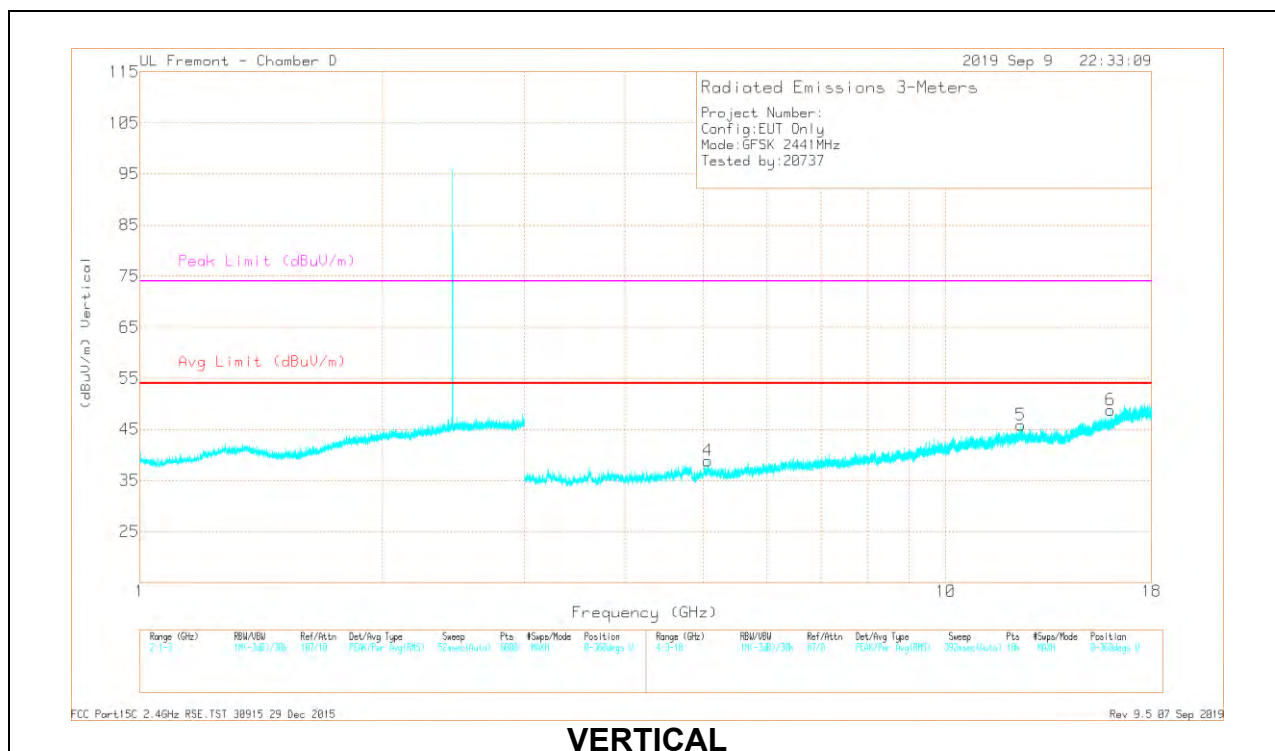
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

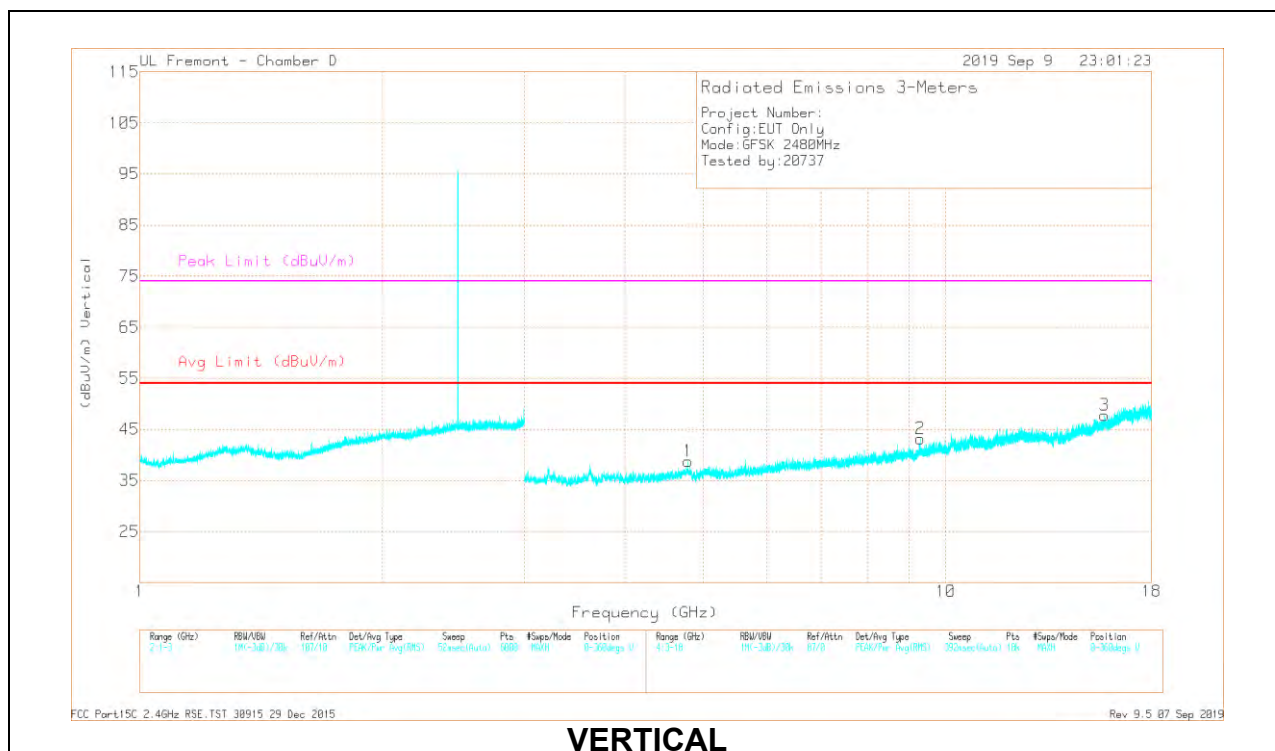
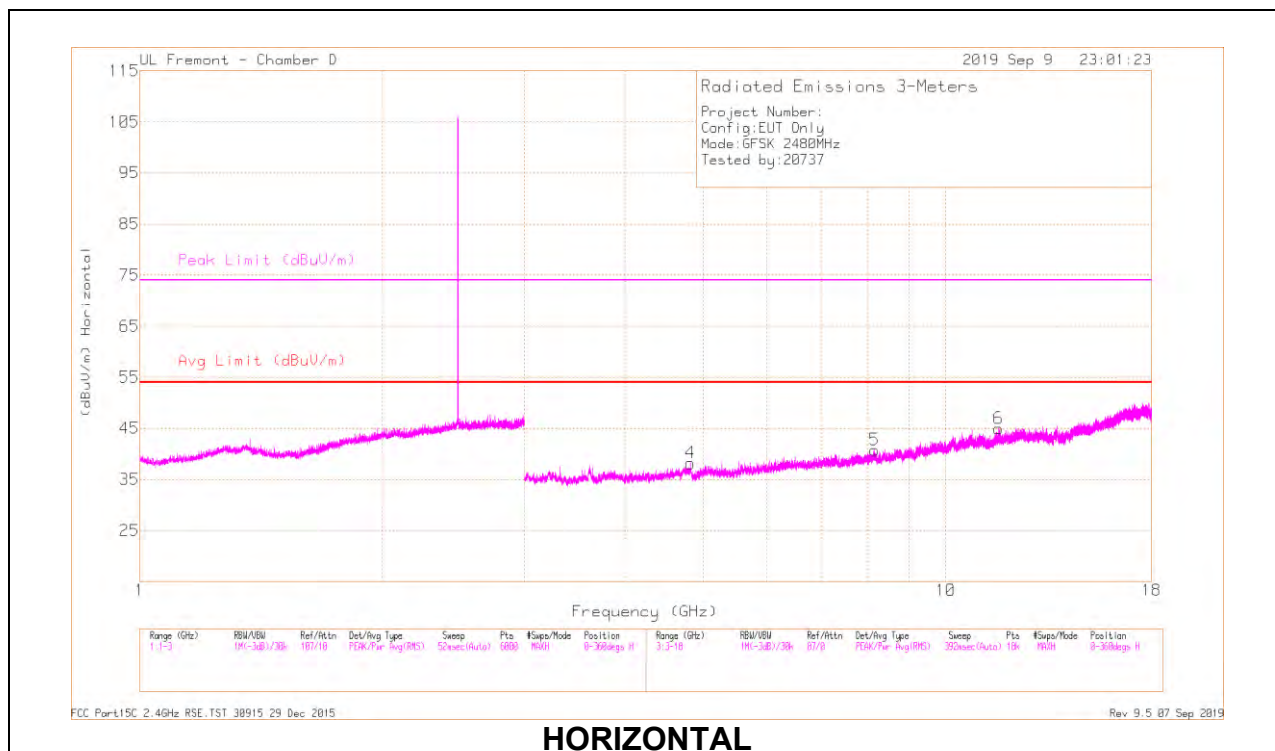
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 3.61781	39.07	PKFH	33.6	-28.2	44.47	-	-	74	-29.53	305	127	H
	* 3.61869	25.65	VA1T	33.5	-28.2	30.95	54	-23.05	-	-	305	127	H
2	* 7.41696	35.33	PKFH	35.5	-24.8	46.03	-	-	74	-27.97	240	240	H
	* 7.42033	21.68	VA1T	35.5	-24.7	32.48	54	-21.52	-	-	240	240	H
3	* 11.55115	32.67	PKFH	38.2	-20.4	50.47	-	-	74	-23.53	262	301	H
	* 11.55219	17.98	VA1T	38.2	-20.4	35.78	54	-18.22	-	-	262	301	H
4	* 5.07058	37.08	PKFH	34	-26.5	44.58	-	-	74	-29.42	198	150	V
	* 5.0692	24.11	VA1T	34	-26.5	31.61	54	-22.39	-	-	198	150	V
5	* 12.39413	33.49	PKFH	38.9	-20.5	51.89	-	-	74	-22.11	286	180	V
	* 12.39517	18.85	VA1T	38.9	-20.6	37.15	54	-16.85	-	-	286	180	V
6	* 16.01136	33.92	PKFH	40.5	-20.5	53.92	-	-	74	-20.08	360	239	V
	* 16.01175	18.75	VA1T	40.5	-20.5	38.75	54	-15.25	-	-	360	239	V

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

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 4.8212	38.05	PKFH	34	-27.1	44.95	-	-	74	-29.05	306	138	H
	* 4.81925	24.69	VA1T	34	-27	31.69	54	-22.31	-	-	306	138	H
5	* 8.15124	34.59	PKFH	35.7	-23.2	47.09	-	-	74	-26.91	235	290	H
	* 8.1524	20.62	VA1T	35.7	-23.2	33.12	54	-20.88	-	-	235	290	H
6	* 11.62067	33.51	PKFH	38.3	-20.6	51.21	-	-	74	-22.79	159	203	H
	* 11.61922	18.08	VA1T	38.3	-20.6	35.78	54	-18.22	-	-	159	203	H
1	* 4.78853	37.83	PKFH	34.1	-26.8	45.13	-	-	74	-28.87	255	148	V
	* 4.78843	24.6	VA1T	34.1	-26.8	31.9	54	-22.1	-	-	255	148	V
3	* 15.72915	33.99	PKFH	40.1	-20.1	53.99	-	-	74	-20.01	169	312	V
	* 15.72735	19.13	VA1T	40.1	-20.2	39.03	54	-14.97	-	-	169	312	V
2	9.2912	33.09	PKFH	36.2	-21	48.29	-	-	-	-	100	138	V
	9.29276	18.39	VA1T	36.2	-21	33.59	-	-	-	-	100	138	V

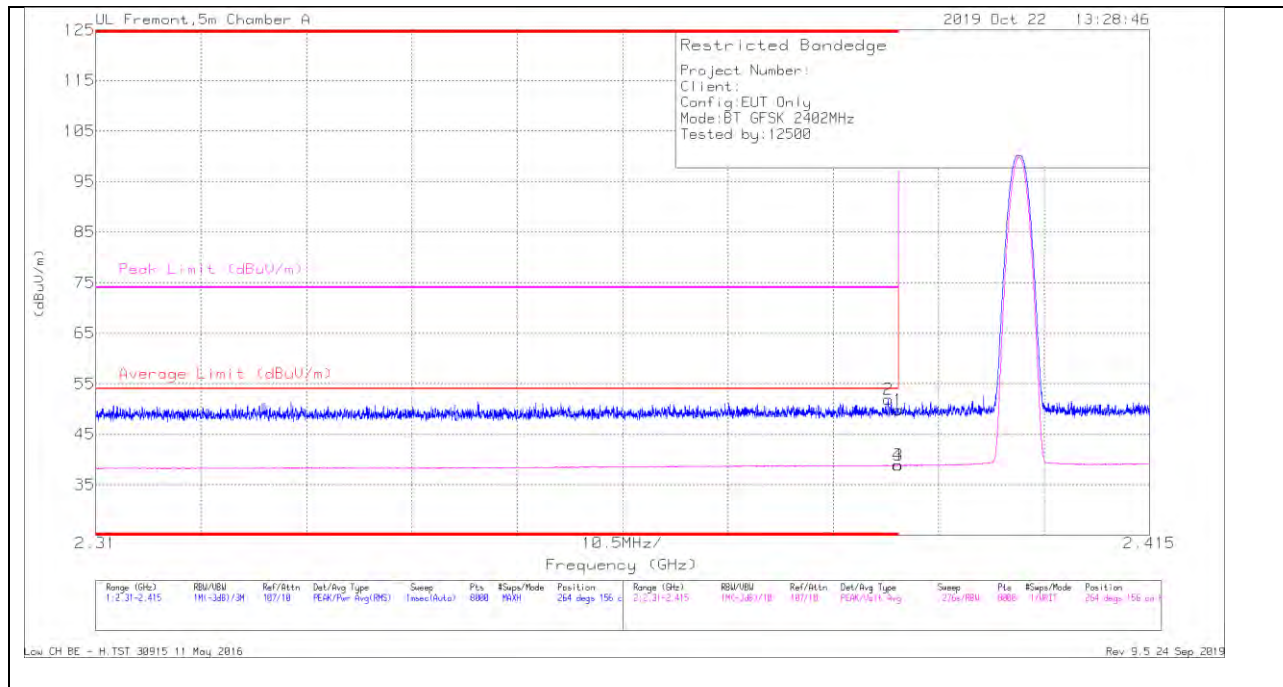
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

LAT 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dBm)	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	39.95	Pk	32.2	-22.3	49.85	-	-	74	-24.15	264	156	H
2	* 2.38897	42.02	Pk	32.2	-22.3	51.92	-	-	74	-22.08	264	156	H
3	* 2.39	28.95	VA1T	32.2	-22.3	38.85	54	-15.15	-	-	264	156	H
4	* 2.38994	28.93	VA1T	32.2	-22.3	38.83	54	-15.17	-	-	264	156	H

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

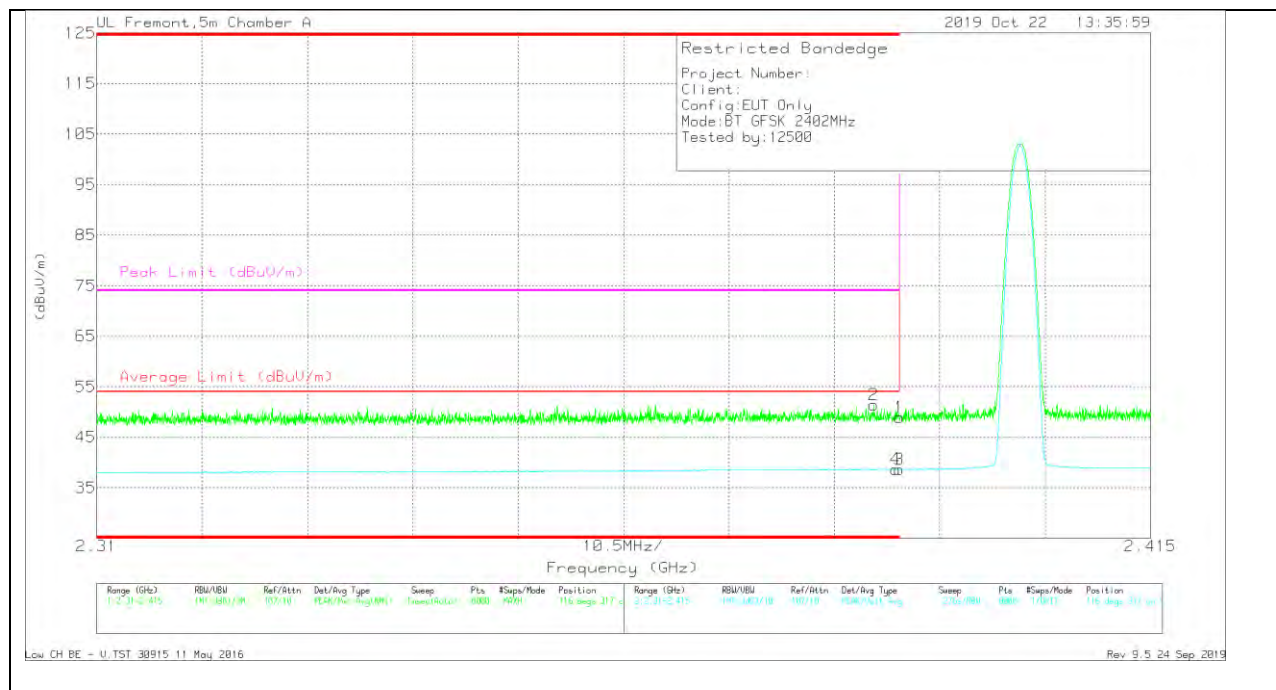
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Filt/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	38.97	Pk	32.2	-22.3	48.87	-	-	74	-25.13	116	317	V
2	* 2.38741	41.56	Pk	32.2	-22.3	51.46	-	-	74	-22.54	116	317	V
3	* 2.39	28.74	VA1T	32.2	-22.3	38.64	54	-15.36	-	-	116	317	V
4	* 2.38962	28.78	VA1T	32.2	-22.3	38.68	54	-15.32	-	-	116	317	V

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

Pk - Peak detector

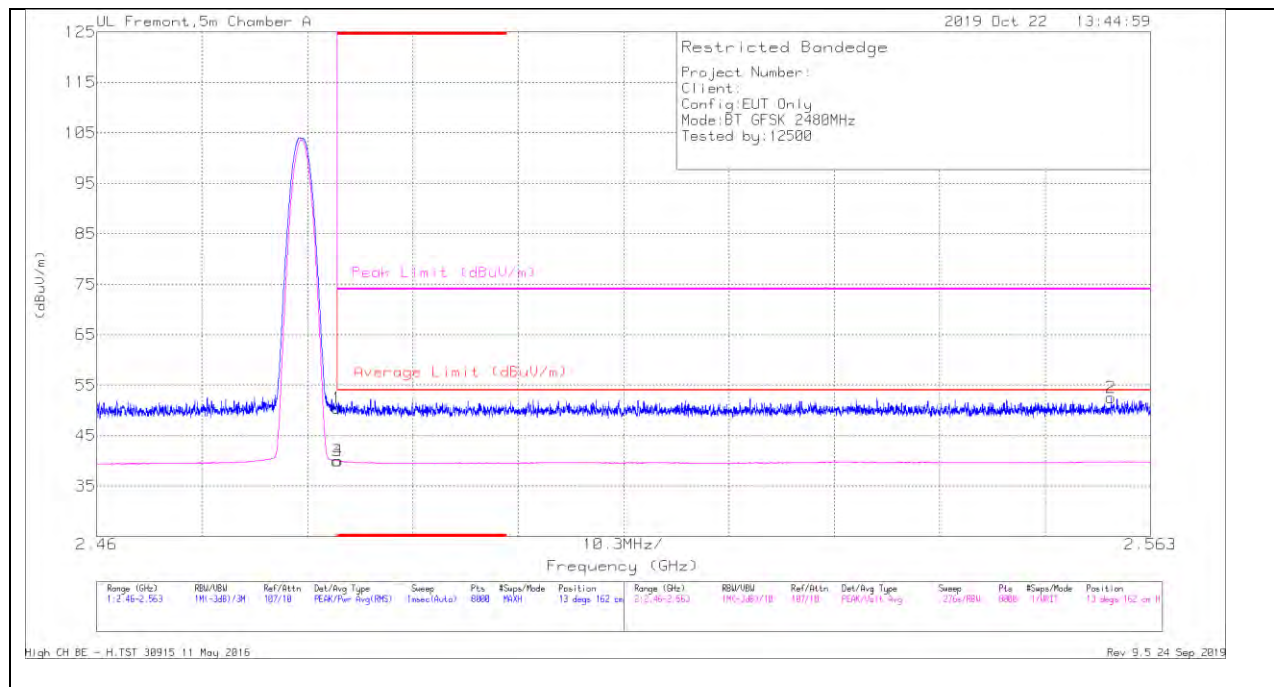
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low CH BE - V.TST 30915 11 May 2016

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BANEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FiltriPa 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	* 2.4835	39.87	Pk	32.6	-22.1	50.37	-	-	74	-23.63	13	162	H
3	* 2.4835	29.51	VA1T	32.6	-22.1	40.01	54	-13.99	-	-	13	162	H
4	* 2.48359	29.5	VA1T	32.6	-22.1	40	54	-14	-	-	13	162	H
2	2.55915	41.65	Pk	32.6	-21.7	52.55	-	-	74	-21.45	13	162	H

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

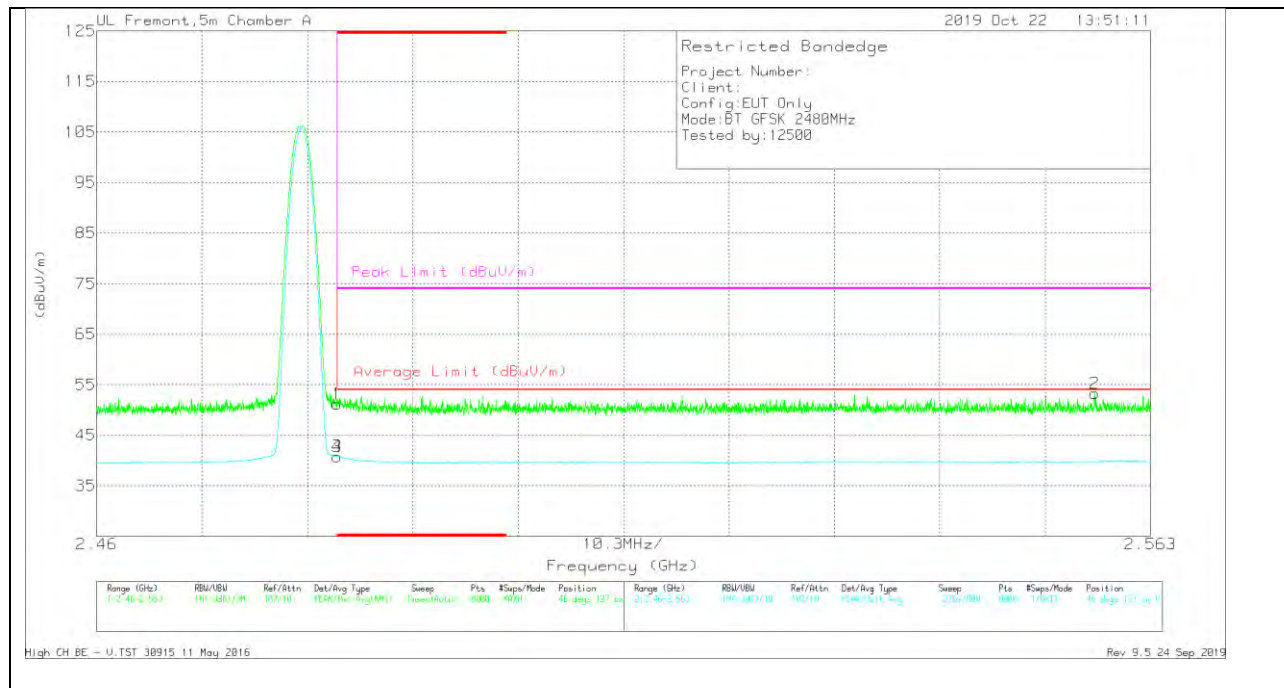
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dBm)	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	* 2.4835	40.67	Pk	32.6	-22.1	51.17	-	-	74	-22.83	46	127	V
3	* 2.4835	30.29	VA1T	32.6	-22.1	40.79	54	-13.21	-	-	46	127	V
4	* 2.48351	30.29	VA1T	32.6	-22.1	40.79	54	-13.21	-	-	46	127	V
2	2.55754	42.33	Pk	32.6	-21.7	53.23	-	-	74	-20.77	46	127	V

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

Pk - Peak detector

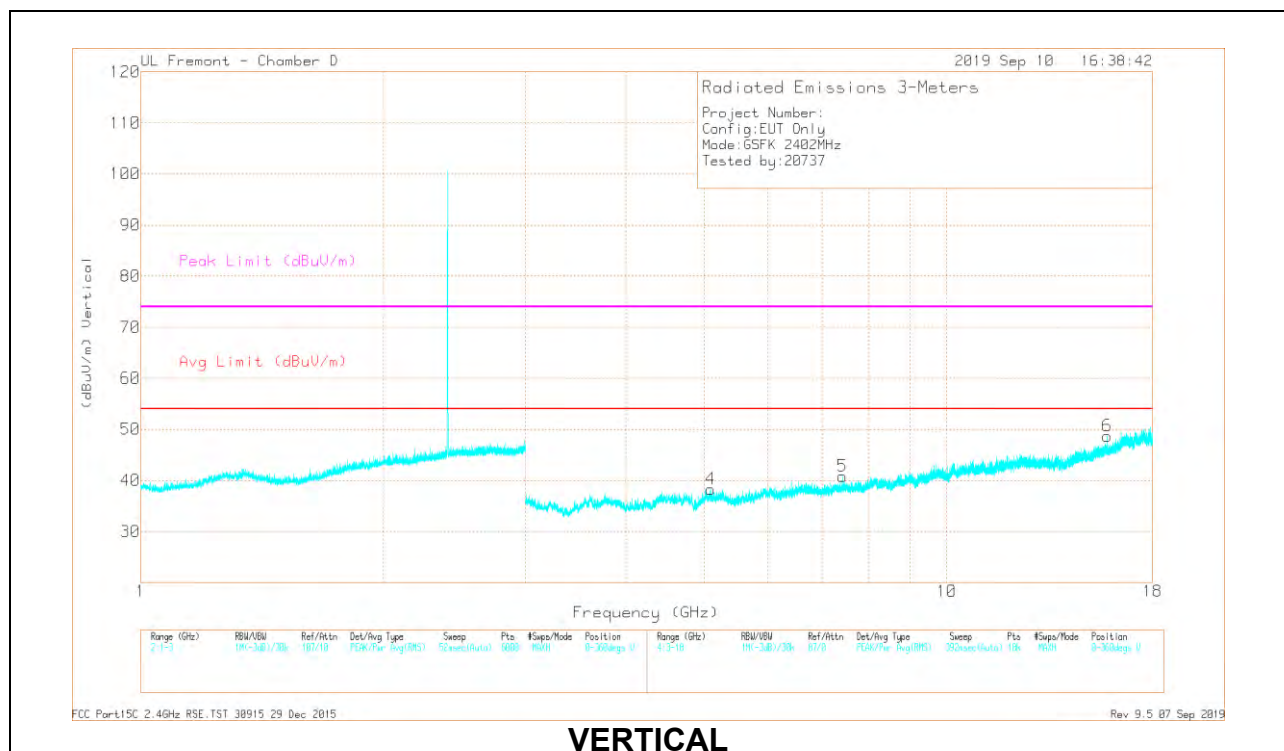
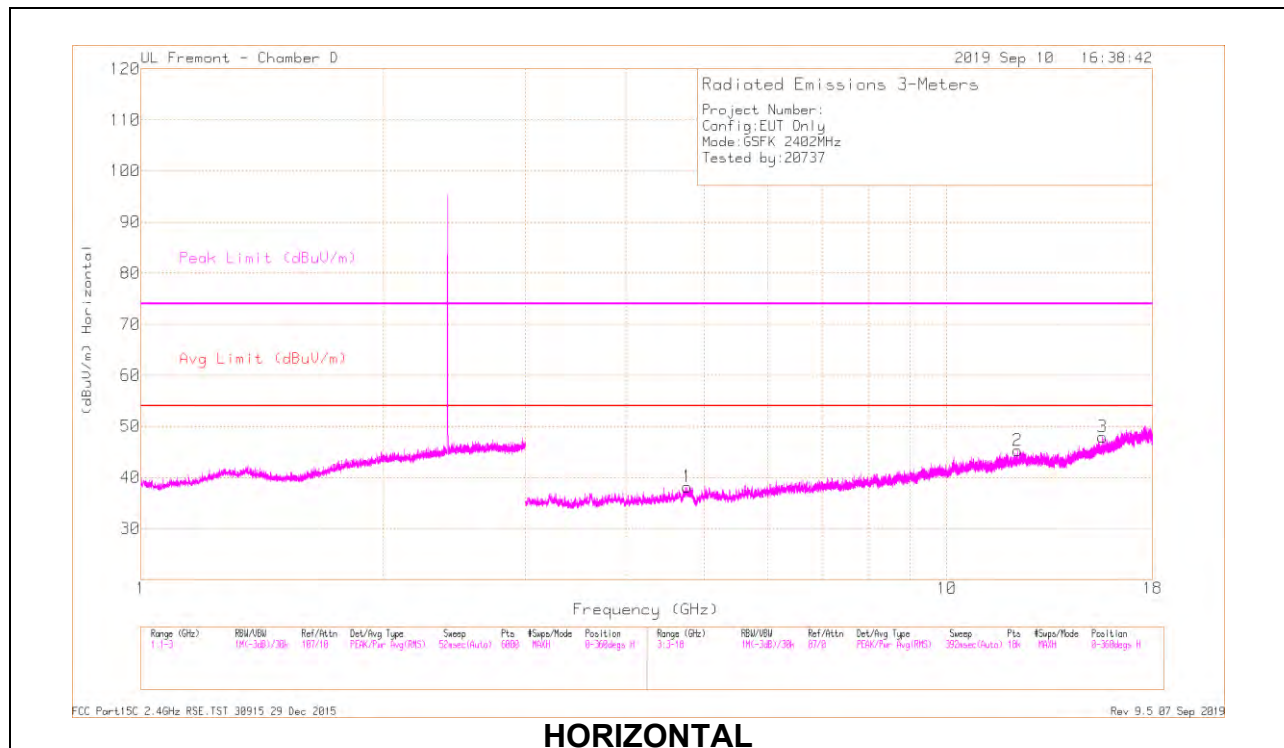
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



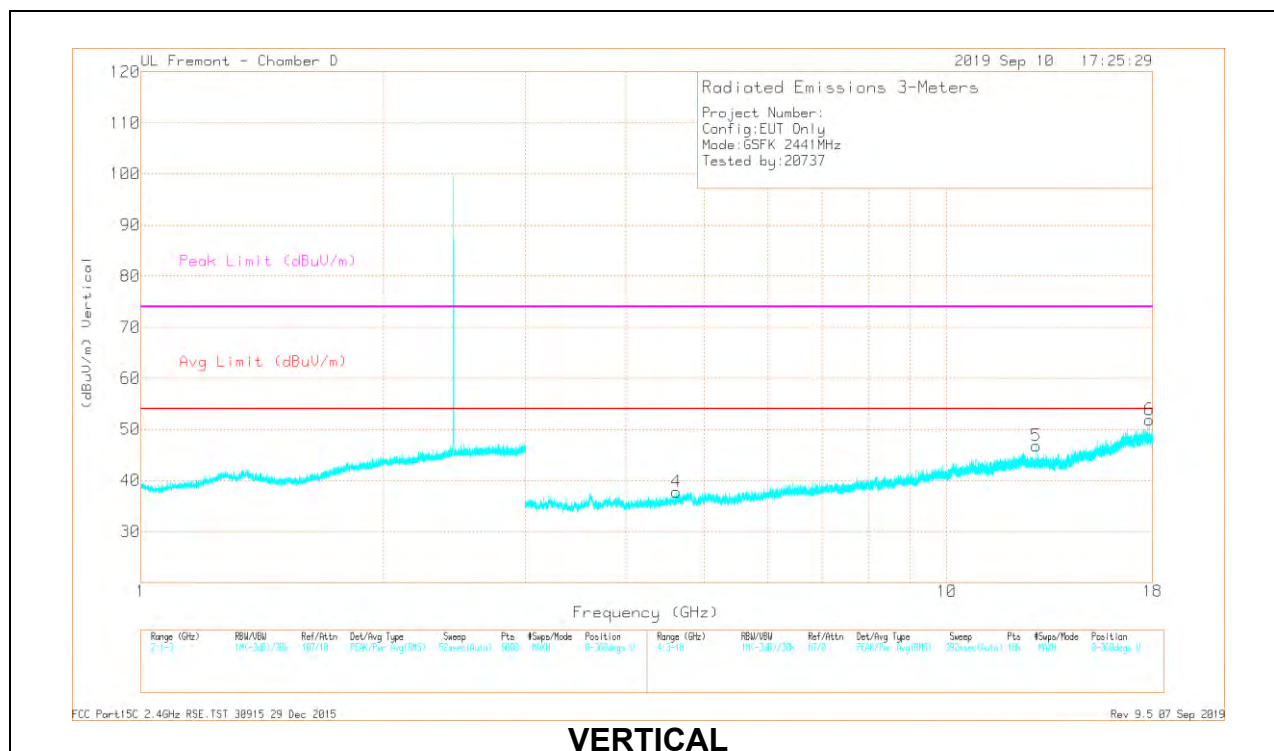
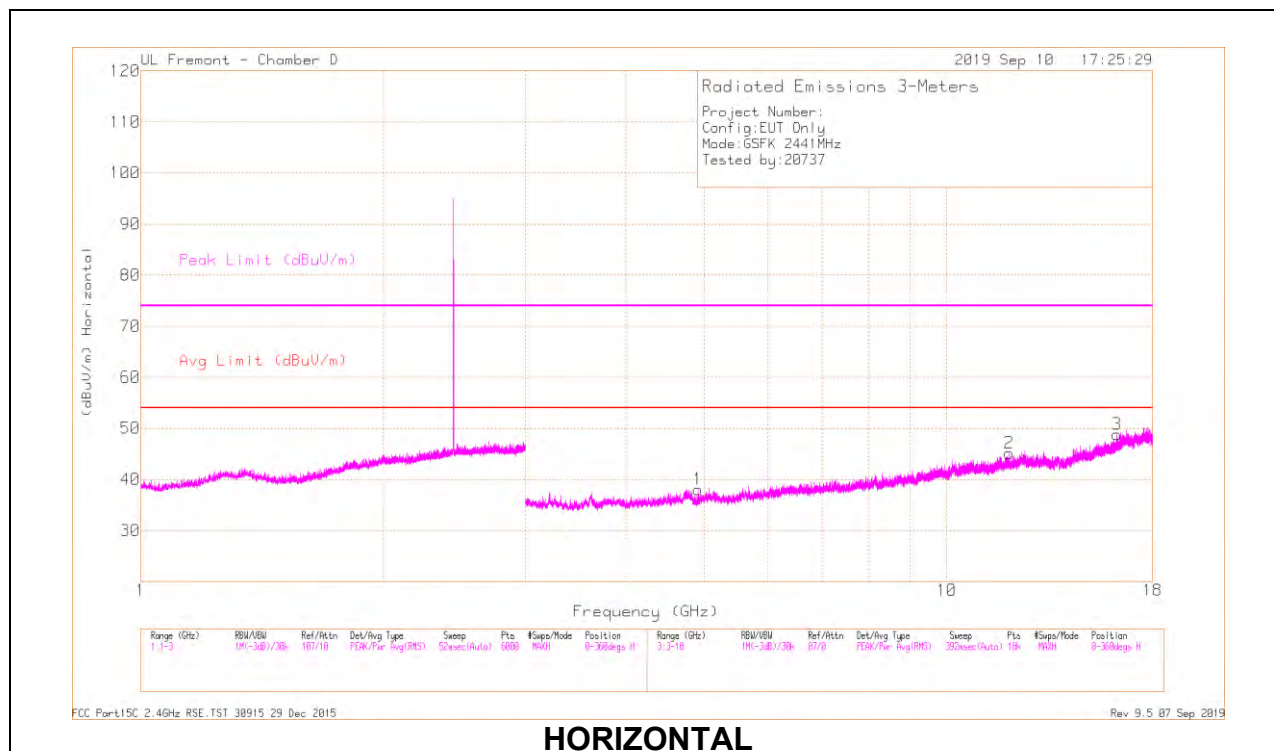
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 4.76508	36.41	PKFH	33.9	-26.4	43.91	-	-	74	-30.09	286	172	H
	* 4.76444	24.06	VA1T	33.9	-26.4	31.56	54	-22.44	-	-	286	172	H
2	* 12.23943	33.21	PKFH	38.9	-21	51.11	-	-	74	-22.89	214	245	H
	* 12.23872	18.99	VA1T	38.9	-21	36.89	54	-17.11	-	-	214	245	H
3	* 15.6075	33.51	PKFH	40.2	-21.2	52.51	-	-	74	-21.49	162	259	H
	* 15.60372	19.67	VA1T	40.2	-21.3	38.57	54	-15.43	-	-	162	259	H
4	* 5.09761	36.82	PKFH	34.1	-27.1	43.82	-	-	74	-30.18	99	236	V
	* 5.09758	24.04	VA1T	34.1	-27.1	31.04	54	-22.96	-	-	99	236	V
5	* 7.42178	35.66	PKFH	35.5	-24.7	46.46	-	-	74	-27.54	145	191	V
	* 7.42058	21.65	VA1T	35.5	-24.7	32.45	54	-21.55	-	-	145	191	V
6	* 15.80889	33.47	PKFH	40.2	-20.1	53.57	-	-	74	-20.43	324	187	V
	* 15.80697	18.93	VA1T	40.2	-20.2	38.93	54	-15.07	-	-	324	187	V

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

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS

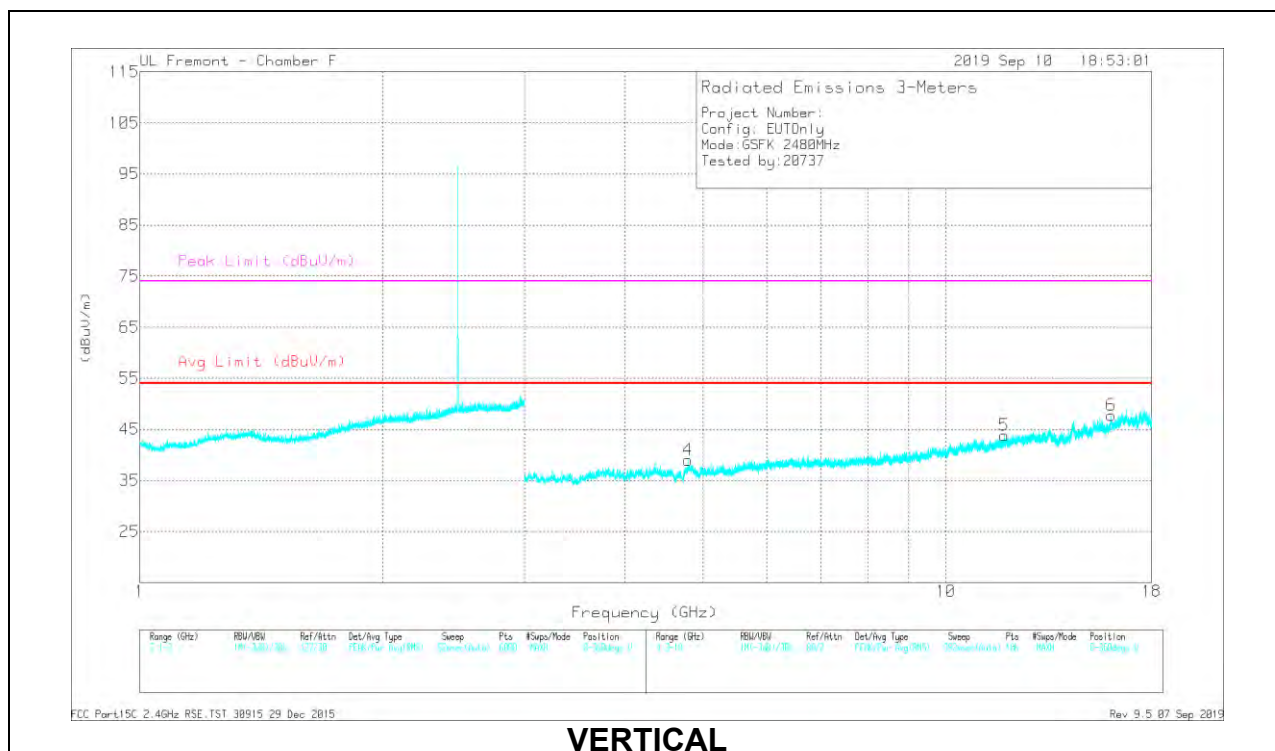
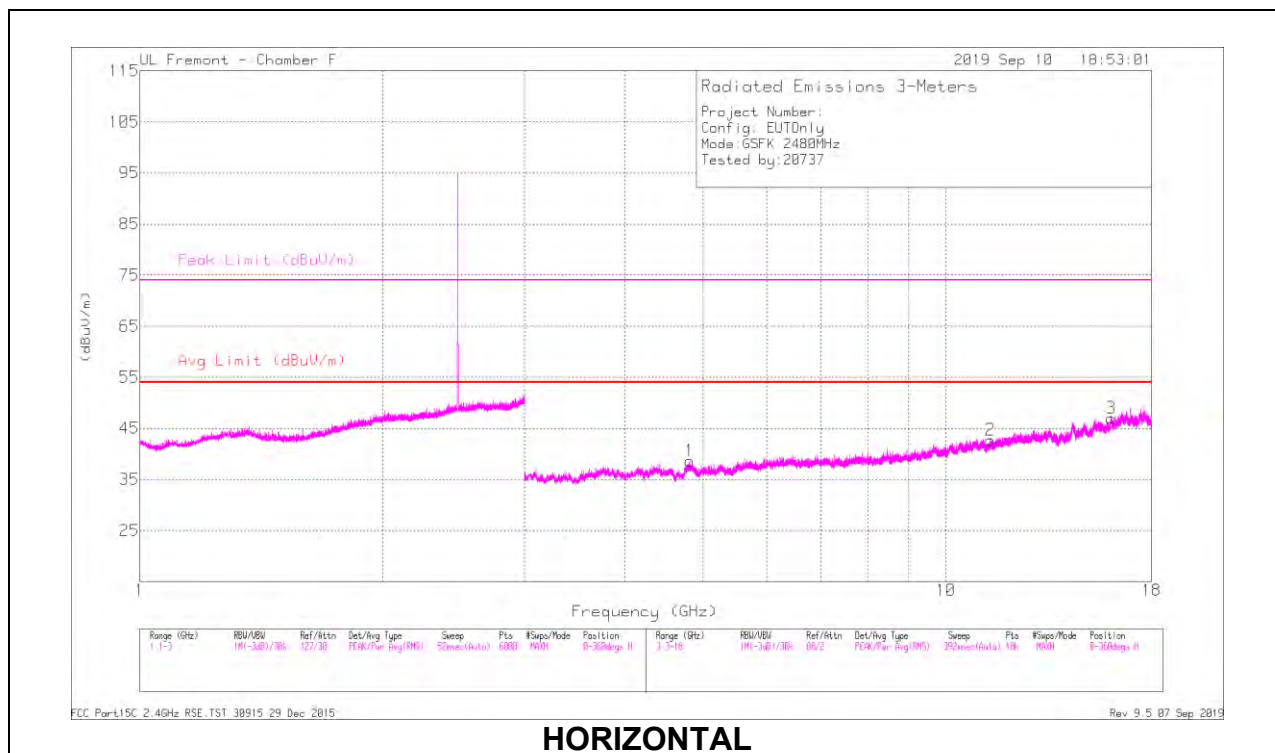


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11.94224	32.79	PKFH	38.6	-21.2	50.19	-	-	74	-23.81	47	124	H
	* 11.94465	18.95	VA1T	38.6	-21.4	36.15	54	-17.85	-	-	47	124	H
1	* 4.91401	37.35	PKFH	33.9	-27.8	43.45	-	-	74	-30.55	114	128	H
	* 4.91345	23.75	VA1T	33.9	-27.8	29.85	54	-24.15	-	-	114	128	H
6	* 17.83095	33.14	PKFH	41.3	-17.2	57.24	-	-	74	-16.76	167	220	V
	* 17.83131	16.18	VA1T	41.3	-17.2	40.28	54	-13.72	-	-	167	220	V
4	* 4.6155	37.35	PKFH	34	-28.2	43.15	-	-	74	-30.85	180	232	V
	* 4.61868	25.66	VA1T	34	-28.3	31.36	54	-22.64	-	-	180	232	V
5	12.90772	20.11	VA1T	39	-22.1	37.01	-	-	-	-	290	342	V
	12.91032	33.83	PKFH	39.1	-22.1	50.83	-	-	-	-	290	342	V
3	16.26913	18.04	VA1T	40.8	-19.7	39.14	-	-	-	-	267	295	H
	16.27052	33.61	PKFH	40.8	-19.7	54.71	-	-	-	-	267	295	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	* 4.80916	52.38	PKFH	34.2	-44.2	42.38	-	-	74	-31.62	64	137	H
	* 4.8101	41.15	VA1T	34.2	-44.2	31.15	54	-22.85	-	-	64	137	H
2	* 11.36481	48.14	PKFH	38.1	-37.8	48.44	-	-	74	-25.56	146	192	H
	* 11.36384	36.43	VA1T	38.1	-37.8	36.73	54	-17.27	-	-	146	192	H
3	* 16.0526	50.03	PKFH	40.8	-37.4	53.43	-	-	74	-20.57	287	258	H
	* 16.05447	38.02	VA1T	40.8	-37.5	41.32	54	-12.68	-	-	287	258	H
4	* 4.78722	52.54	PKFH	34.2	-44.2	42.54	-	-	74	-31.46	227	300	V
	* 4.78775	41.29	VA1T	34.2	-44.2	31.29	54	-22.71	-	-	227	300	V
5	* 11.82279	48.79	PKFH	38.6	-38.4	48.99	-	-	74	-25.01	146	255	V
	* 11.81967	37.21	VA1T	38.6	-38.5	37.31	54	-16.69	-	-	146	255	V
6	* 16.03665	51.03	PKFH	40.8	-37.1	54.73	-	-	74	-19.27	76	180	V
	* 16.03505	37.99	VA1T	40.8	-37.1	41.69	54	-12.31	-	-	76	180	V

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

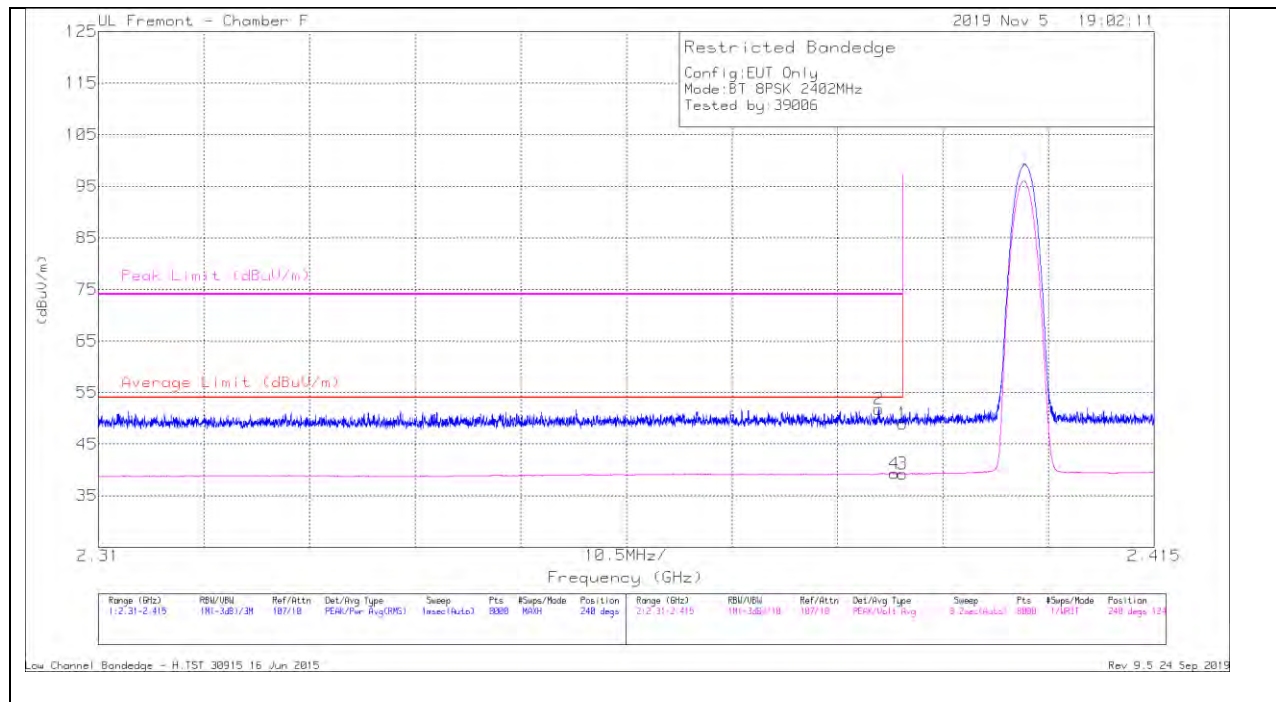
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.4. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

UAT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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	53.35	Pk	32	-36.4	48.95	-	-	74	-25.05	240	124	H
2	* 2.38762	56.32	Pk	31.9	-36.4	51.82	-	-	74	-22.18	240	124	H
3	* 2.39	43.65	VA1T	32	-36.4	39.25	54	-14.75	-	-	240	124	H
4	* 2.38918	43.71	VA1T	32	-36.4	39.31	54	-14.69	-	-	240	124	H

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

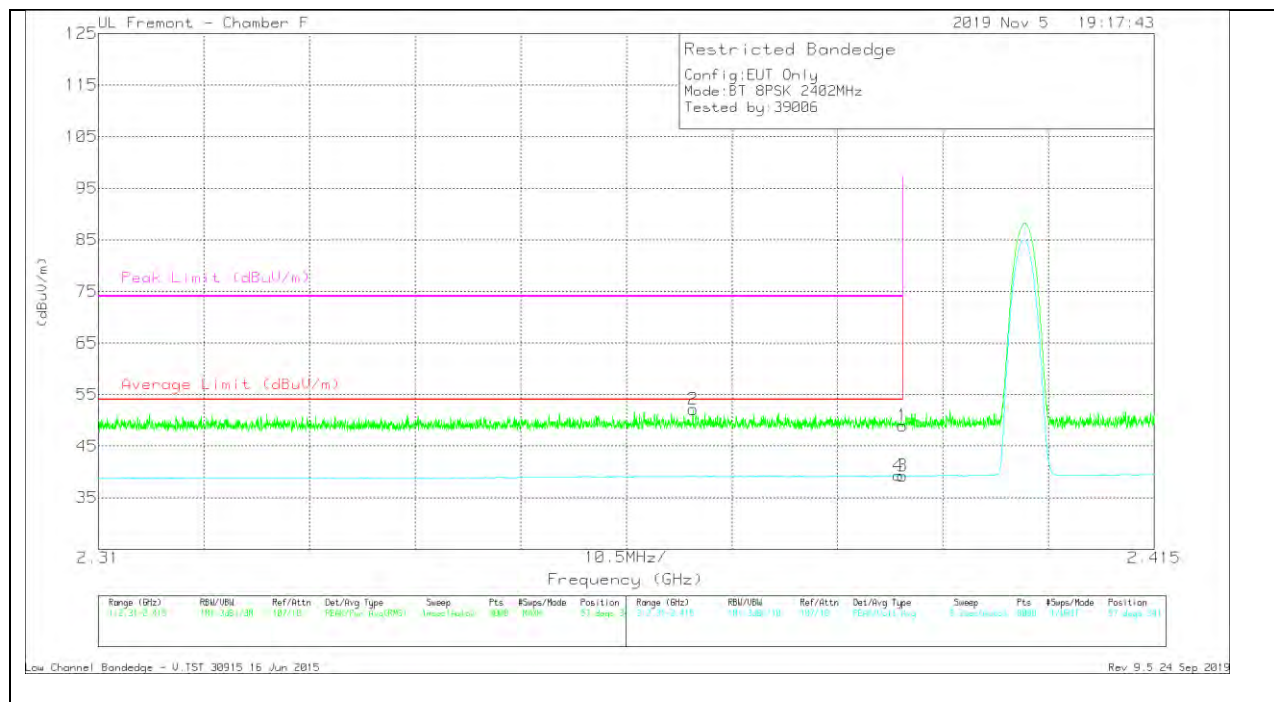
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - H.TST 30915 16 Jun 2015

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/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	* 2.39	53.4	Pk	32	-36.4	49	-	-	74	-25	57	341	V
2	* 2.36914	56.67	Pk	31.9	-36.4	52.17	-	-	74	-21.83	57	341	V
3	* 2.39	43.64	VA1T	32	-36.4	39.24	54	-14.76	-	-	57	341	V
4	* 2.38958	43.71	VA1T	32	-36.4	39.31	54	-14.69	-	-	57	341	V

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

Pk - Peak detector

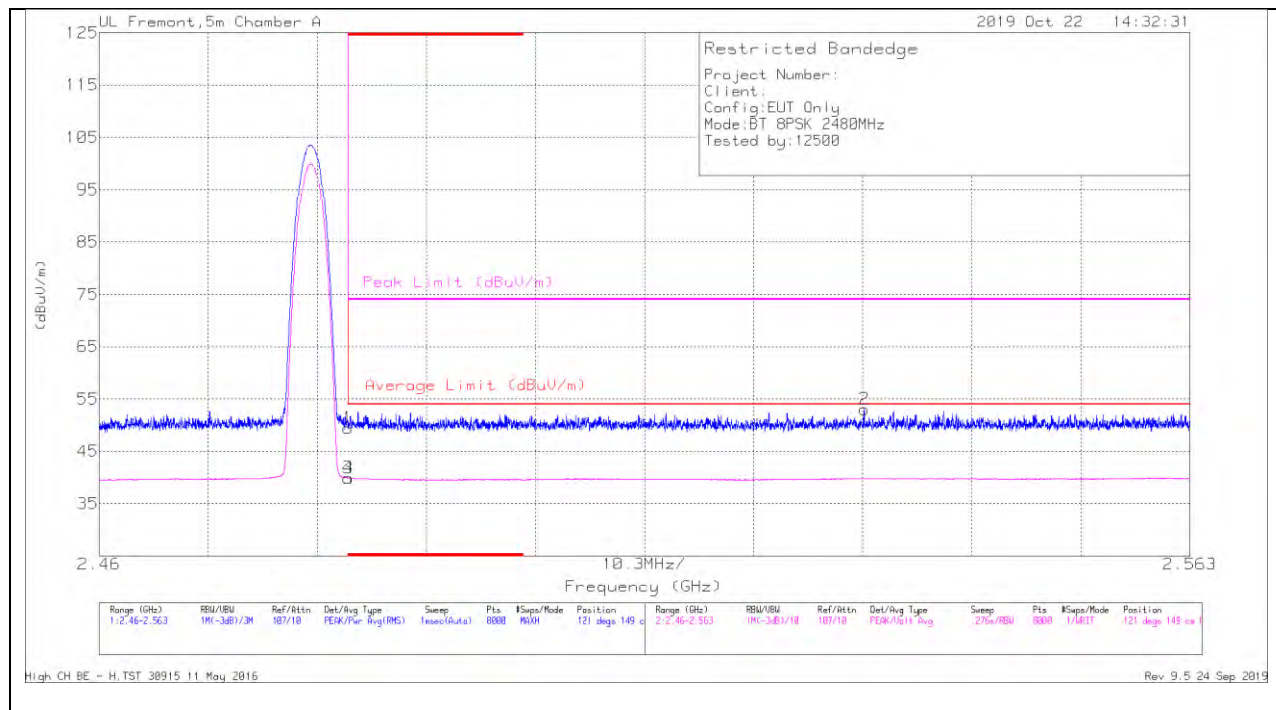
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 16 Jun 2015

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BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Filt/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	* 2.4835	38.97	Pk	32.6	-22.1	49.47	-	-	74	-24.53	121	149	H
3	* 2.4835	29.38	VA1T	32.6	-22.1	39.88	54	-14.12	-	-	121	149	H
4	* 2.48353	29.4	VA1T	32.6	-22.1	39.9	54	-14.1	-	-	121	149	H
2	2.53225	42.26	Pk	32.6	-21.8	53.06	-	-	74	-20.94	121	149	H

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

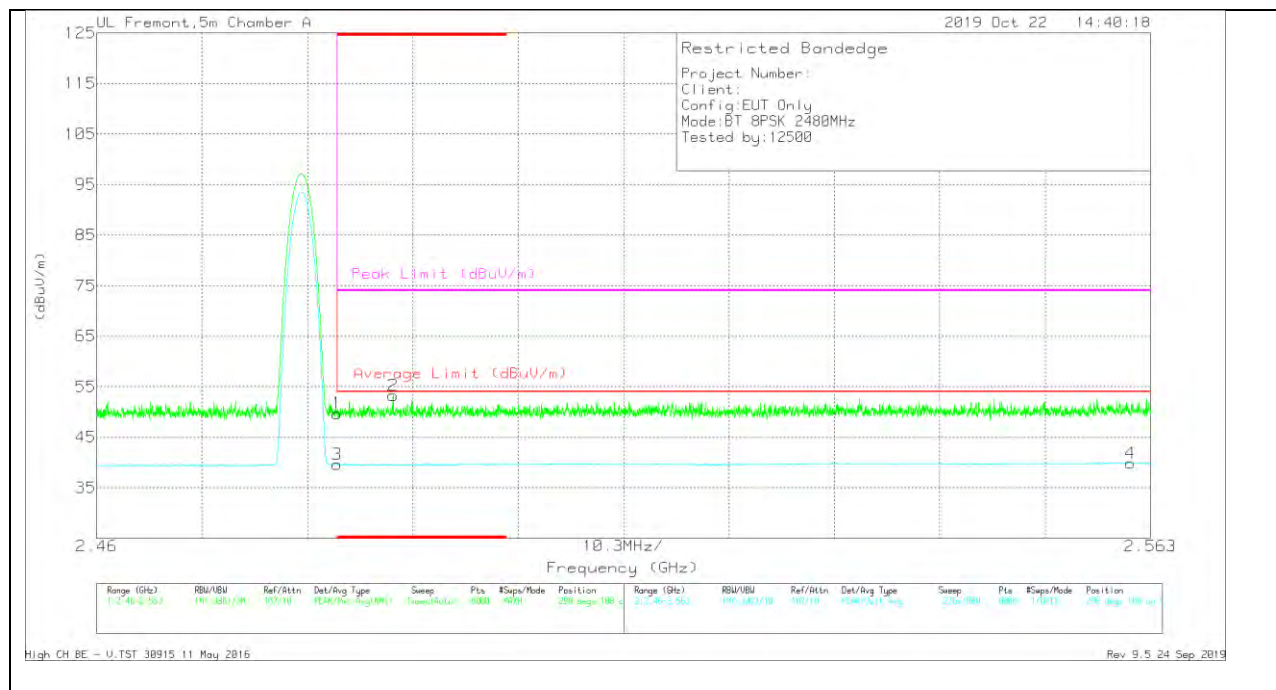
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - H.TST 30915 11 May 2016

Rev 9.5 24 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cb/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	* 2.4835	39.23	Pk	32.6	-22.1	49.73	-	-	74	-24.27	298	108	V
2	* 2.48897	42.78	Pk	32.6	-22.1	53.28	-	-	74	-20.72	298	108	V
3	* 2.4835	29.07	VA1T	32.6	-22.1	39.57	54	-14.43	-	-	298	108	V
4	2.56106	28.99	VA1T	32.6	-21.7	39.89	54	-14.11	-	-	298	108	V

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

Pk - Peak detector

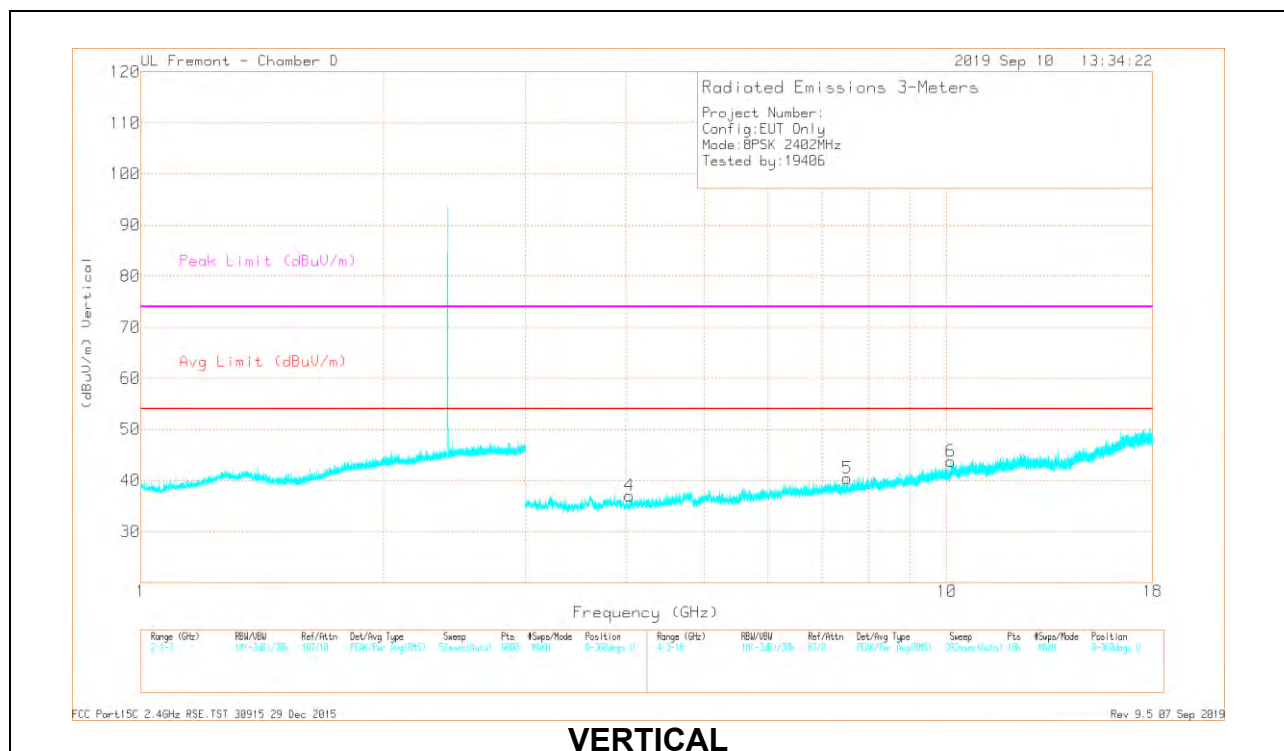
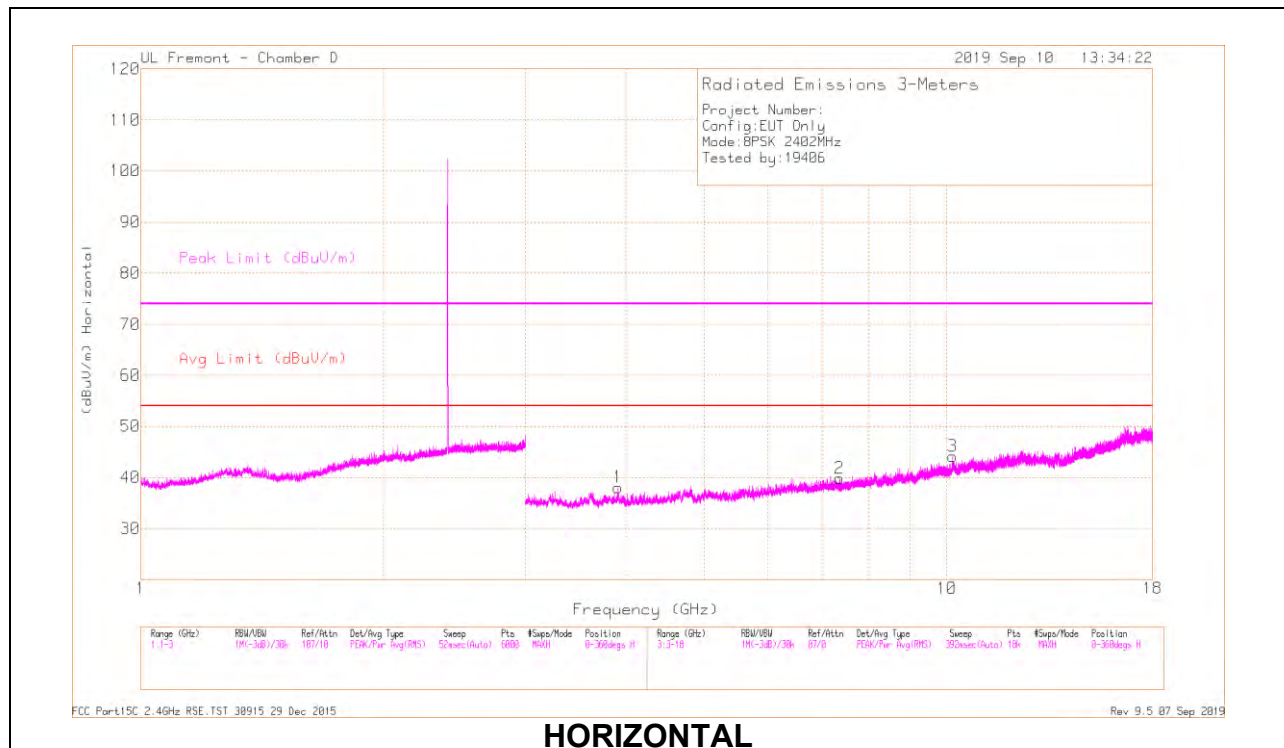
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



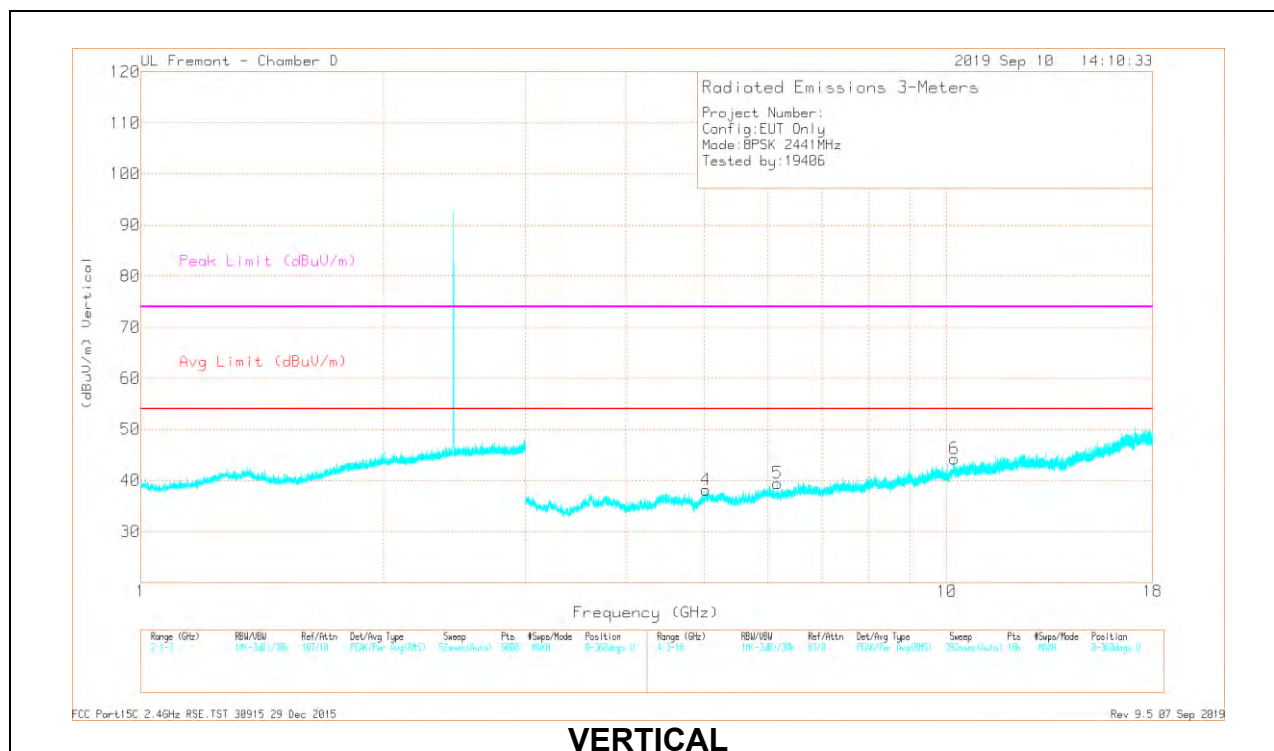
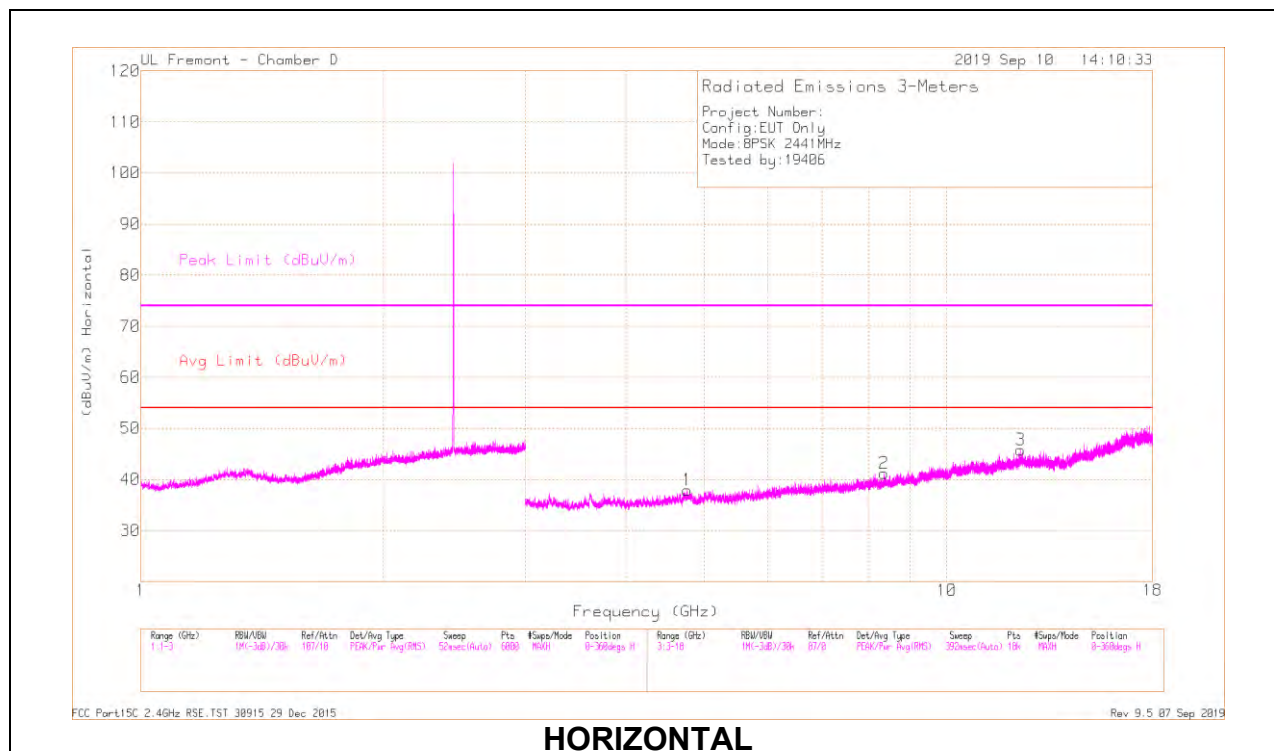
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 3.90935	38.08	PKFH	33.4	-27.9	43.58	-	-	74	-30.42	345	162	H
	* 3.90914	25.49	VA1T	33.4	-27.9	30.99	54	-23.01	-	-	345	162	H
2	* 7.35957	35.05	PKFH	35.4	-25	45.45	-	-	74	-28.55	263	295	H
	* 7.35998	21.85	VA1T	35.5	-25	32.35	54	-21.65	-	-	263	295	H
4	* 4.03885	37	PKFH	33.5	-28.4	42.1	-	-	74	-31.9	258	196	V
	* 4.04117	24.68	VA1T	33.5	-28.4	29.78	54	-24.22	-	-	258	196	V
5	* 7.52165	34.8	PKFH	35.5	-24.9	45.4	-	-	74	-28.6	206	399	V
	* 7.52101	21.87	VA1T	35.5	-24.9	32.47	54	-21.53	-	-	206	399	V
6	10.12034	18.02	VA1T	37	-21	34.02	-	-	-	-	62	270	V
	10.12243	33.49	PKFH	36.9	-21	49.39	-	-	-	-	62	270	V
3	10.17168	17.44	VA1T	37	-20.3	34.14	-	-	-	-	49	166	H
	10.17218	32.47	PKFH	37	-20.3	49.17	-	-	-	-	49	166	H

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

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



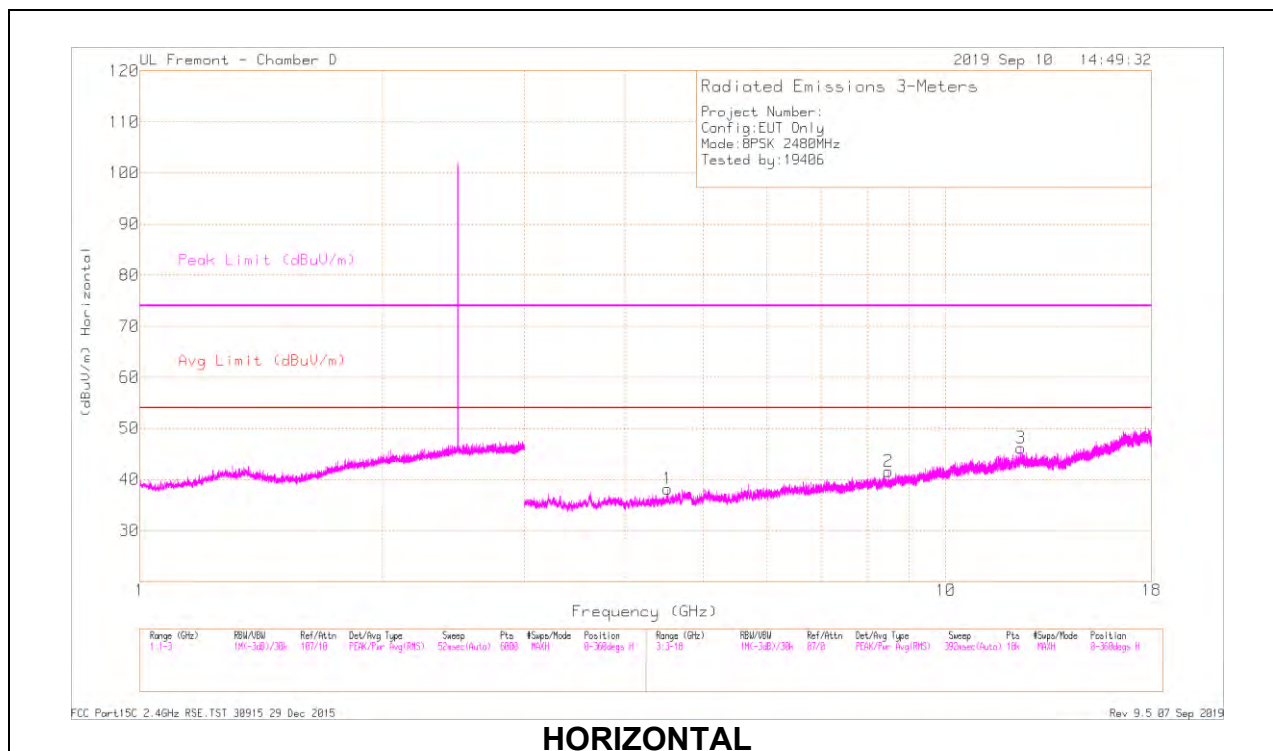
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 4.76031	36.34	PKFH	33.9	-26.4	43.84	-	-	74	-30.16	74	398	H
	* 4.75852	23.23	VA1T	34	-26.4	30.83	54	-23.17	-	-	74	398	H
2	* 8.35203	34.26	PKFH	35.8	-23.4	46.66	-	-	74	-27.34	252	236	H
	* 8.35273	20.76	VA1T	35.8	-23.4	33.16	54	-20.84	-	-	252	236	H
3	* 12.34317	34.21	PKFH	38.9	-20.9	52.21	-	-	74	-21.79	208	328	H
	* 12.34205	19.17	VA1T	38.9	-20.9	37.17	54	-16.83	-	-	208	328	H
4	* 5.02661	36.6	PKFH	34	-26.4	44.2	-	-	74	-29.8	152	335	V
	* 5.02503	23.67	VA1T	33.9	-26.4	31.17	54	-22.83	-	-	152	335	V
5	6.16516	36.08	PKFH	35.3	-26.8	44.58	-	-	-	-	304	153	V
	6.16775	23.13	VA1T	35.3	-26.9	31.53	-	-	-	-	304	153	V
6	10.22569	33.51	PKFH	37	-20.3	50.21	-	-	-	-	233	339	V
	10.22878	17.61	VA1T	37.1	-20.5	34.21	-	-	-	-	233	339	V

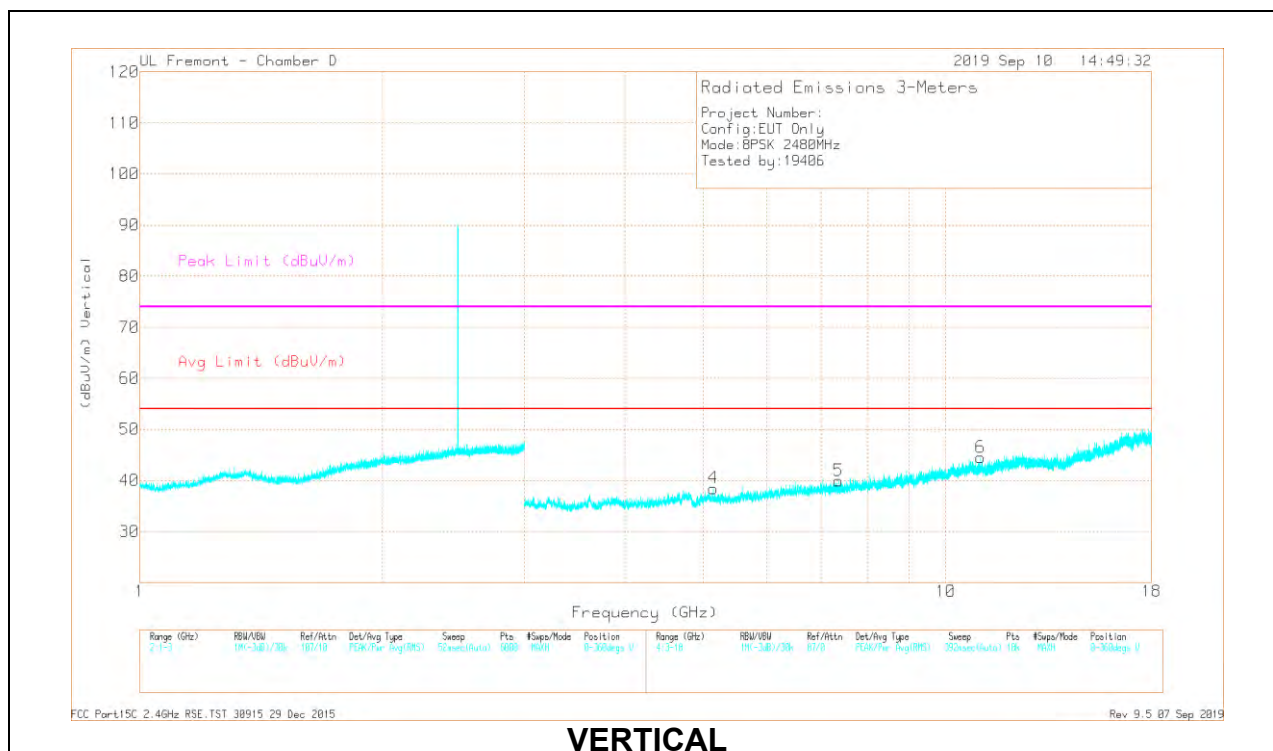
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/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	* 4.51461	37.74	PKFH	33.9	-27.5	44.14	-	-	74	-29.86	298	375	H
	* 4.5134	24.83	VA1T	33.9	-27.5	31.23	54	-22.77	-	-	298	375	H
2	* 8.4873	34.17	PKFH	35.8	-23.4	46.57	-	-	74	-27.43	333	325	H
	* 8.48756	20.9	VA1T	35.8	-23.4	33.3	54	-20.7	-	-	333	325	H
3	* 12.38594	33.36	PKFH	38.9	-20.7	51.56	-	-	74	-22.44	0	156	H
	* 12.38545	19.05	VA1T	38.9	-20.7	37.25	54	-16.75	-	-	0	156	H
4	* 5.14463	37.63	PKFH	34.1	-27.6	44.13	-	-	74	-29.87	225	314	V
	* 5.14709	24.67	VA1T	34.1	-27.7	31.07	54	-22.93	-	-	225	314	V
5	* 7.35876	35.02	PKFH	35.4	-25	45.42	-	-	74	-28.58	225	279	V
	* 7.35921	21.85	VA1T	35.4	-25	32.25	54	-21.75	-	-	225	279	V
6	* 11.05061	33.87	PKFH	37.7	-20.7	50.87	-	-	74	-23.13	173	337	V
	* 11.04834	18.31	VA1T	37.7	-20.6	35.41	54	-18.59	-	-	173	337	V

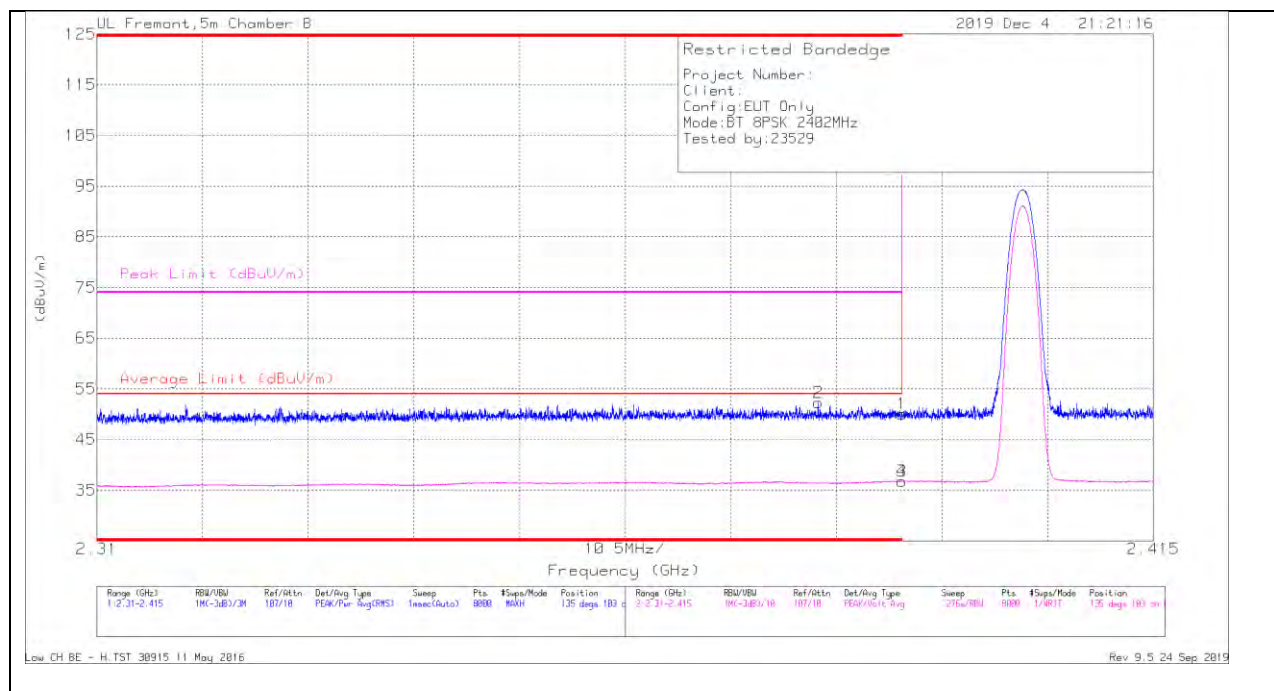
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

LAT 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dBm)	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
2	* 2.38169	41.17	Pk	30.2	-19.1	52.27	-	-	74	-21.73	135	103	H
4	* 2.38998	25.5	VA1T	30.3	-19	36.8	54	-17.2	-	-	135	103	H
1	* 2.39	38.79	Pk	30.3	-19	50.09	-	-	74	-23.91	135	103	H
3	* 2.39	25.47	VA1T	30.3	-19	36.77	54	-17.23	-	-	135	103	H

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

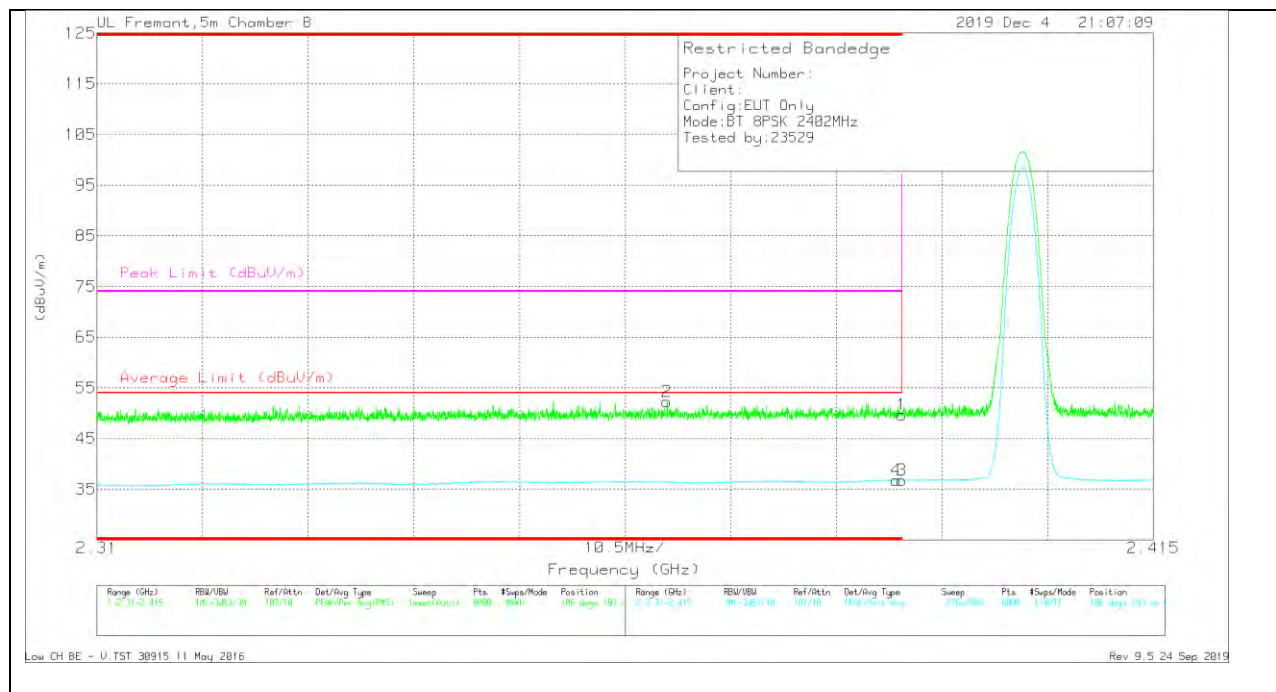
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low CH BE - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/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
2	* 2.36667	41.26	PK	30.1	-19.1	52.26	-	-	74	-21.74	106	193	V
4	* 2.38944	25.5	VA1T	30.3	-19	36.8	54	-17.2	-	-	106	193	V
1	* 2.39	38.41	PK	30.3	-19	49.71	-	-	74	-24.29	106	193	V
3	* 2.39	25.45	VA1T	30.3	-19	36.75	54	-17.25	-	-	106	193	V

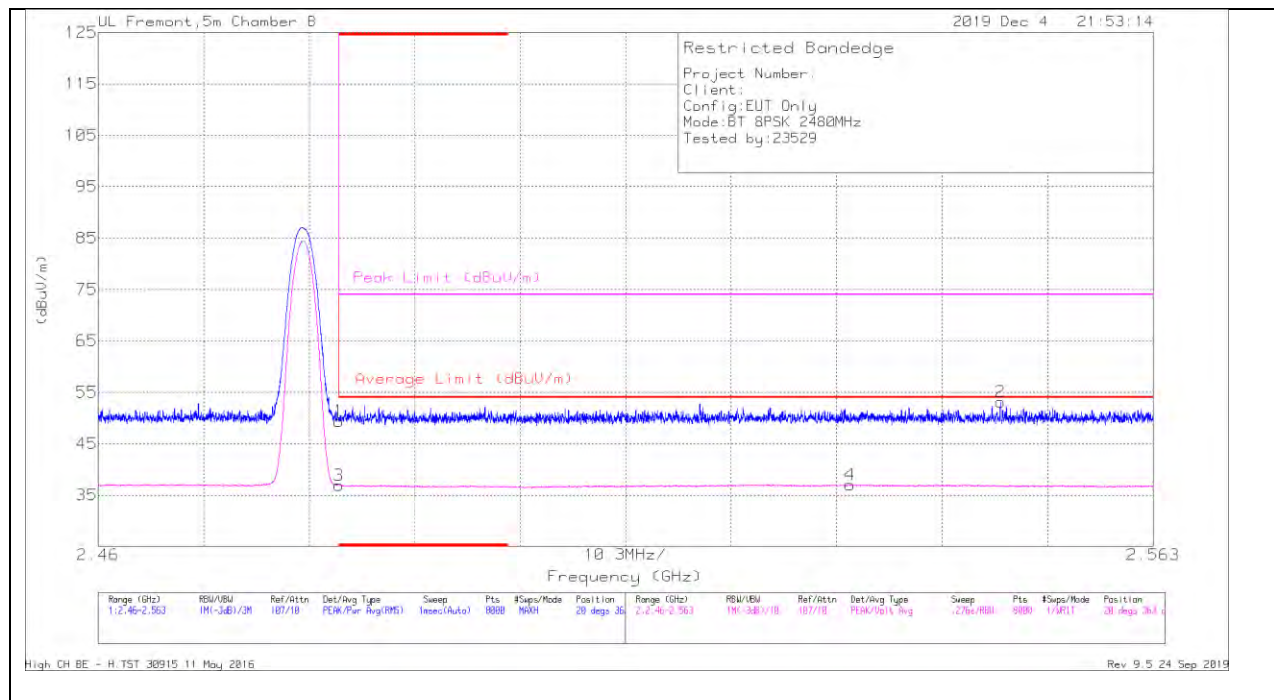
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (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	* 2.4835	38.08	Pk	30.2	-18.9	49.38	-	-	74	-24.62	20	363	H
3	* 2.4835	25.56	VA1T	30.2	-18.9	36.86	54	-17.14	-	-	20	363	H
4	2.5334	25.72	VA1T	30.1	-18.8	37.02	54	-16.98	-	-	20	363	H
2	2.54808	41.84	Pk	30.1	-18.8	53.14	-	-	74	-20.86	20	363	H

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

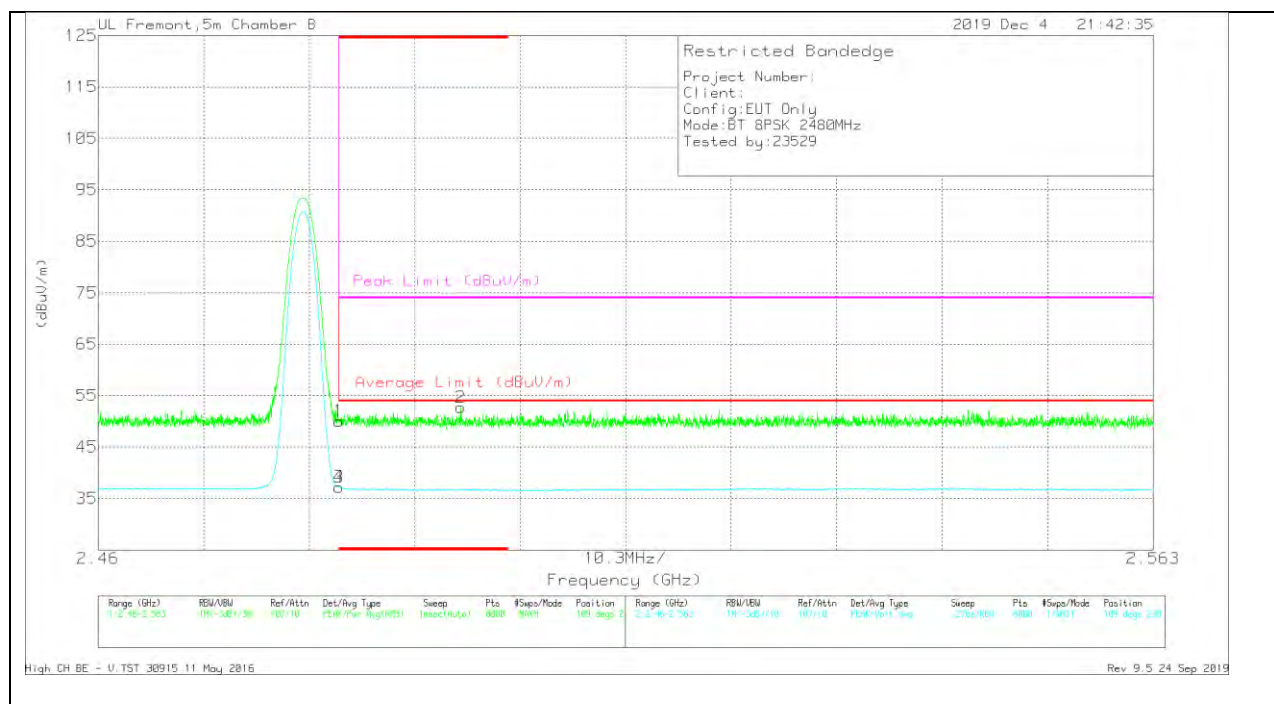
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF PRE0194893 (dB/m)	Amp/Cb/Filt/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	* 2.4835	38.77	PK	30.2	-18.9	50.07	-	-	74	-23.93	109	230	V
3	* 2.4835	25.9	VA1T	30.2	-18.9	37.2	54	-16.8	-	-	109	230	V
4	* 2.48351	25.91	VA1T	30.2	-18.9	37.21	54	-16.79	-	-	109	230	V
2	* 2.49542	41.41	PK	30.1	-18.8	52.71	-	-	74	-21.29	109	230	V

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

PK - Peak detector

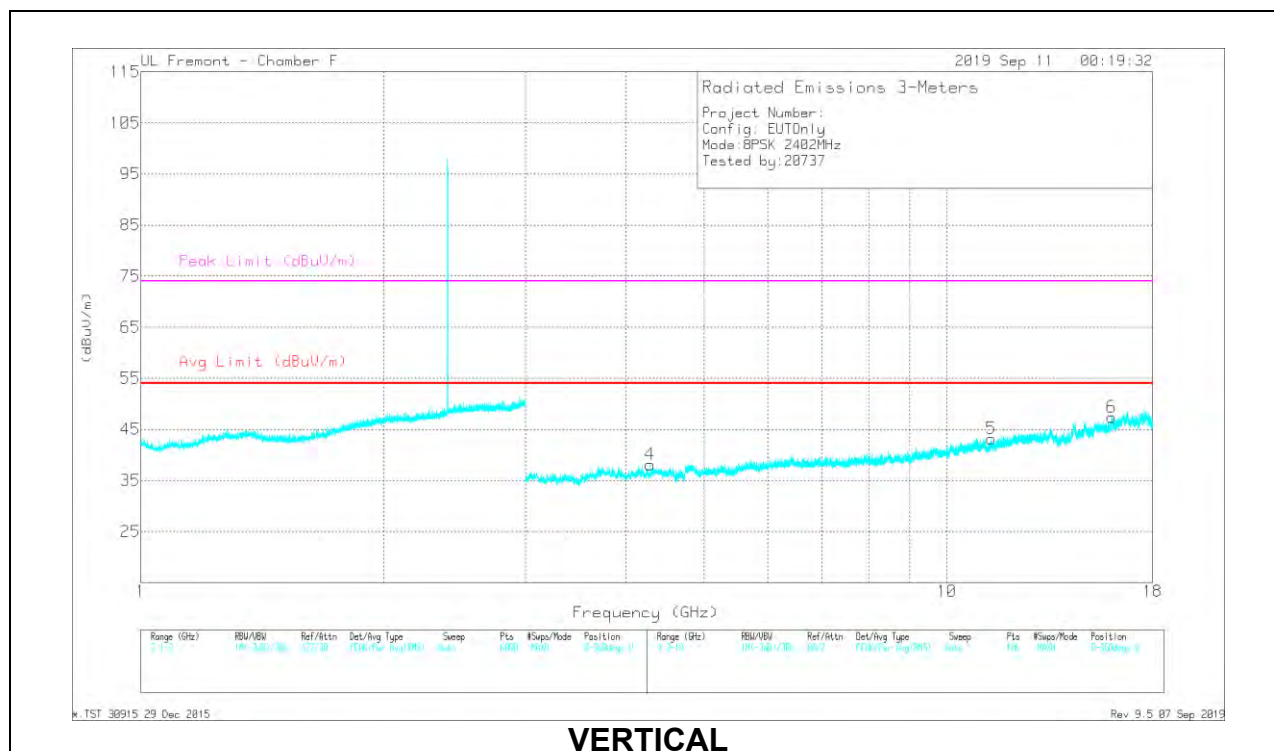
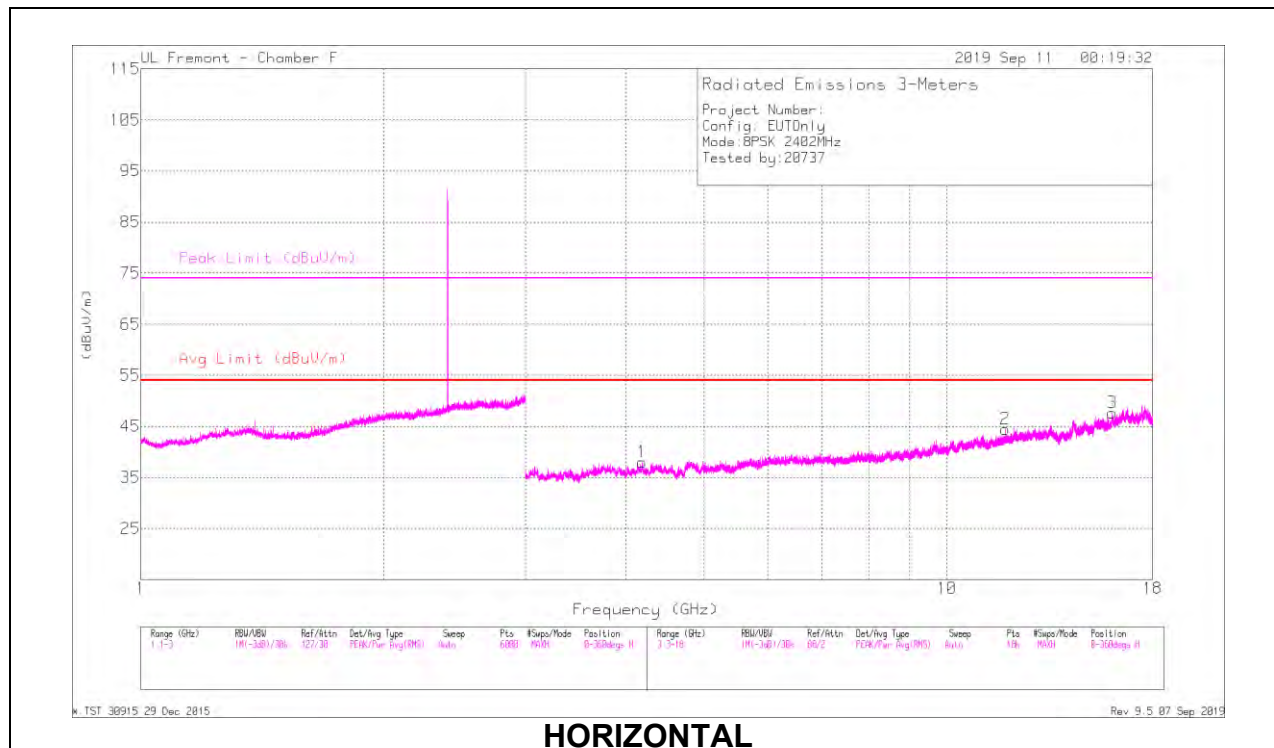
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High CH BE - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



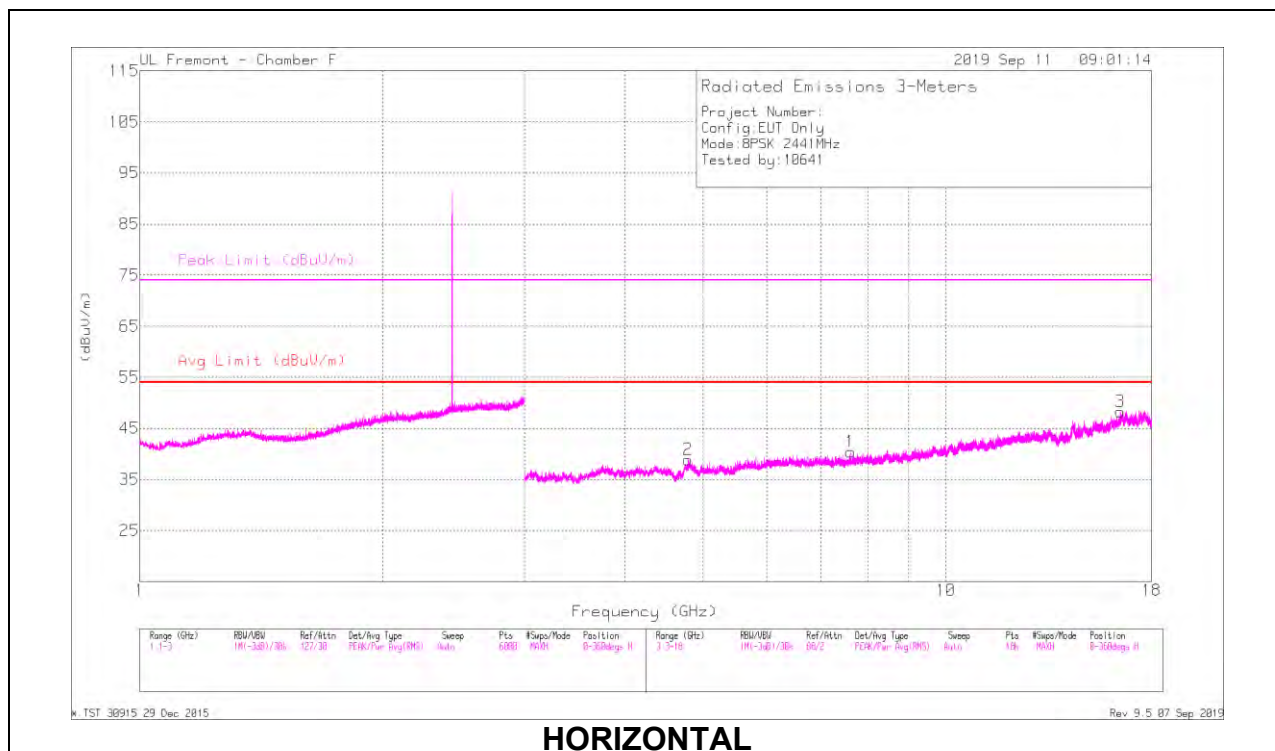
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 4.18799	53.57	PKFH	33.6	-44	43.17	-	-	74	-30.83	313	119	H
	* 4.18829	41.75	VA1T	33.6	-44	31.35	54	-22.65	-	-	313	119	H
2	* 11.81596	49.59	PKFH	38.6	-38.6	49.59	-	-	74	-24.41	275	177	H
	* 11.8155	37.31	VA1T	38.6	-38.6	37.31	54	-16.69	-	-	275	177	H
3	* 16.03637	49.47	PKFH	40.8	-37.1	53.17	-	-	74	-20.83	194	272	H
	* 16.03439	37.82	VA1T	40.8	-37.1	41.52	54	-12.48	-	-	194	272	H
4	* 4.2854	52.35	PKFH	33.9	-44.2	42.05	-	-	74	-31.95	125	151	V
	* 4.28786	41.28	VA1T	33.9	-44.2	30.98	54	-23.02	-	-	125	151	V
5	* 11.36702	48.61	PKFH	38.1	-37.7	49.01	-	-	74	-24.99	196	214	V
	* 11.36358	36.63	VA1T	38.1	-37.8	36.93	54	-17.07	-	-	196	214	V
6	* 16.02657	49.78	PKFH	40.7	-37.4	53.08	-	-	74	-20.92	297	166	V
	* 16.0257	37.83	VA1T	40.7	-37.4	41.13	54	-12.87	-	-	297	166	V

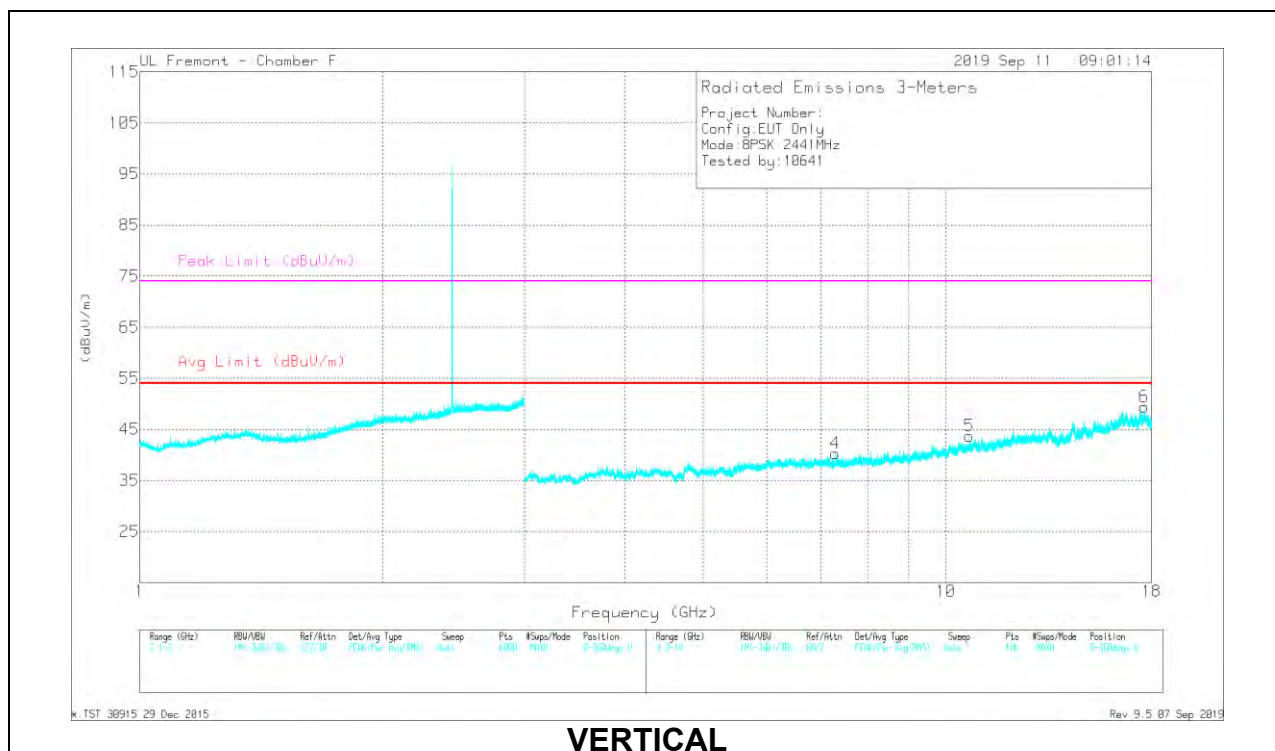
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

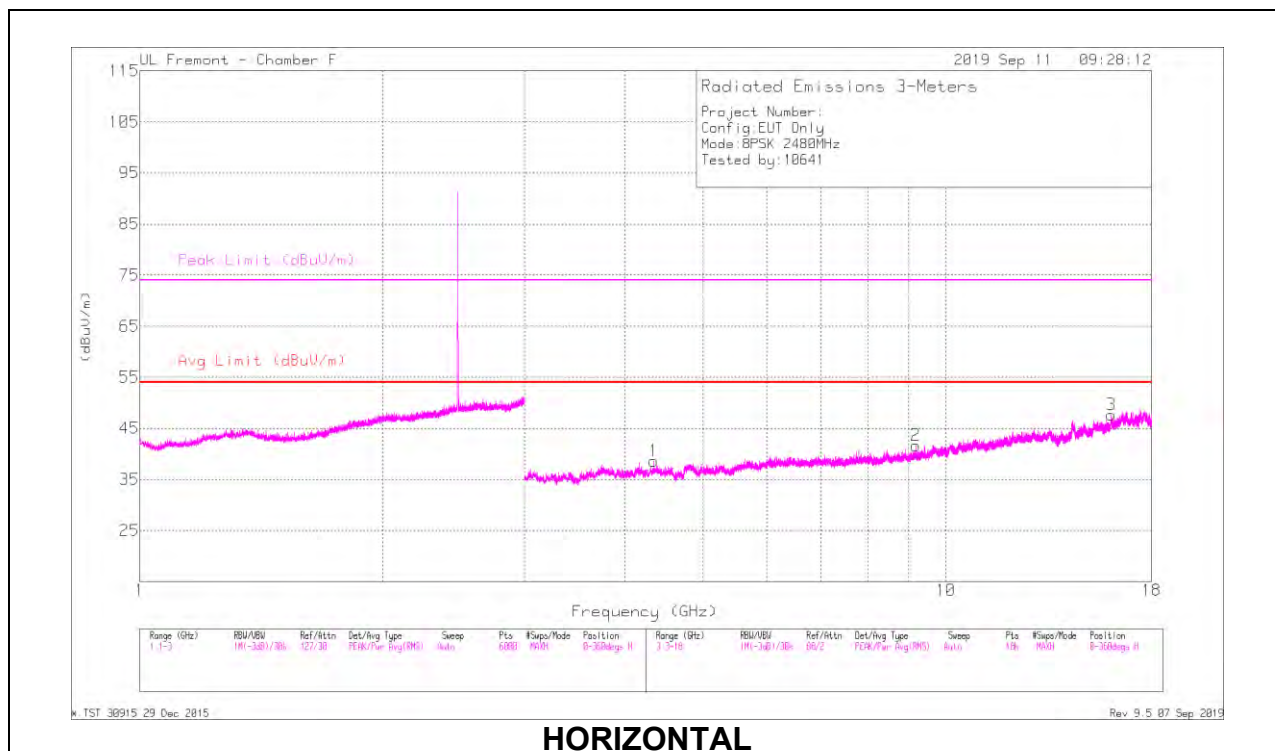
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	* 7.6188	49.79	PKFH	35.7	-40	45.49	-	-	74	-28.51	24	116	H
	* 7.62013	37.72	VA1T	35.8	-40	33.52	54	-20.48	-	-	24	116	H
2	* 4.78891	53.69	PKFH	34.1	-44.3	43.49	-	-	74	-30.51	73	127	H
	* 4.7861	41.35	VA1T	34.2	-44.3	31.25	54	-22.75	-	-	73	127	H
3	16.45532	50.37	PKFH	41.4	-37.7	54.07	-	-	-	-	110	165	H
4	* 7.29224	49.73	PKFH	35.6	-40.5	44.83	-	-	74	-29.17	109	142	V
	* 7.29228	38.01	VA1T	35.6	-40.5	33.11	54	-20.89	-	-	109	142	V
5	* 10.70445	49.04	PKFH	37.9	-38.6	48.34	-	-	74	-25.66	116	153	V
	* 10.70295	36.89	VA1T	37.9	-38.6	36.19	54	-17.81	-	-	116	153	V
6	17.63471	49.08	PKFH	41.6	-36.1	54.58	-	-	74	-19.42	122	175	V

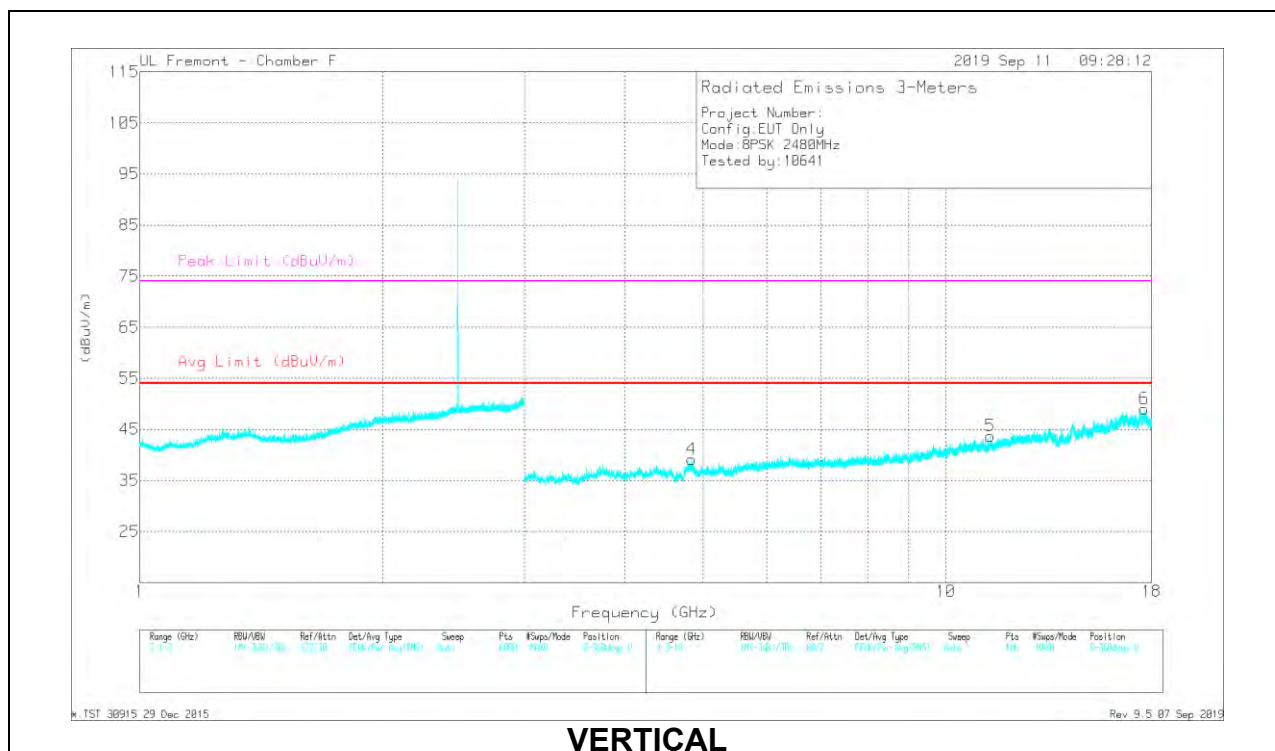
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

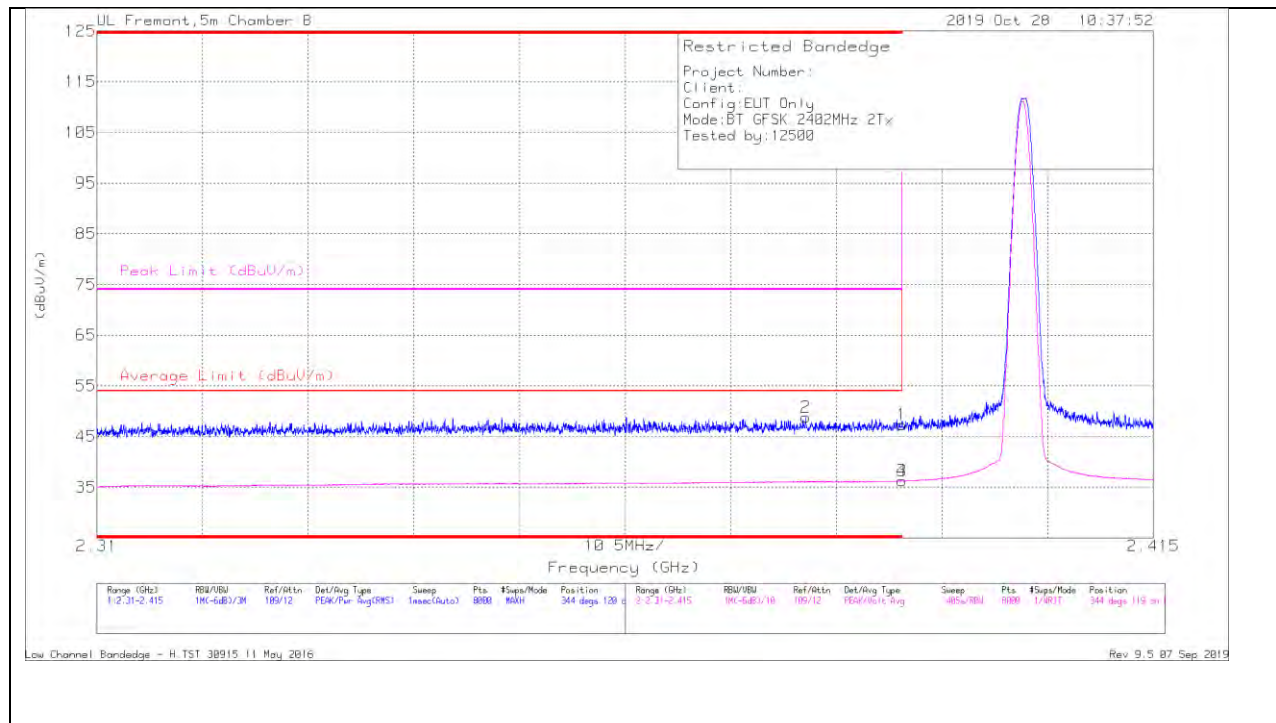
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.33946	53.53	PKFH	33.9	-44.2	43.23	-	-	74	-30.77	38	176	H
	* 4.34065	41.92	VA1T	33.9	-44.2	31.62	54	-22.38	-	-	38	176	H
2	* 9.18401	49.15	PKFH	36.3	-39.2	46.25	-	-	74	-27.75	93	196	H
	* 9.18285	37.76	VA1T	36.3	-39.3	34.76	54	-19.24	-	-	93	196	H
3	* 16.04006	49.62	PKFH	40.8	-37.1	53.32	-	-	74	-20.68	244	216	H
	* 16.04156	38.01	VA1T	40.8	-37.1	41.71	54	-12.29	-	-	244	216	H
4	* 4.83504	52.64	PKFH	34.2	-43.8	43.04	-	-	74	-30.96	210	233	V
	* 4.83523	41.23	VA1T	34.2	-43.8	31.63	54	-22.37	-	-	210	233	V
5	* 11.36547	47.9	PKFH	38.1	-37.7	48.3	-	-	74	-25.7	241	212	V
	* 11.3628	36.51	VA1T	38.1	-37.8	36.81	54	-17.19	-	-	241	212	V
6	17.63086	49.2	PKFH	41.6	-36	54.8	-	-	74	-19.2	228	223	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

9.1.5. BEAMFORMING HIGH POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBV)	Det	AF PRE0194893 (dB/m)	Amp/Cb/Filt/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	35.96	Pk	30.3	-18.9	47.36	-	-	74	-26.64	344	120	H
2	* 2.38045	37.39	Pk	30.2	-18.8	48.79	-	-	74	-25.21	344	120	H
3	* 2.39	24.83	VA1T	30.3	-18.9	36.23	54	-17.77	-	-	344	119	H
4	* 2.38998	24.85	VA1T	30.3	-18.9	36.25	54	-17.75	-	-	344	119	H

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 07 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dBm)	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	35.72	Pk	30.3	-18.9	47.12	-	-	74	-26.88	303	245	V
2	* 2.3751	37.8	Pk	30.2	-18.9	49.1	-	-	74	-24.9	303	245	V
3	* 2.39	24.66	VA1T	30.3	-18.9	36.06	54	-17.94	-	-	303	245	V
4	* 2.38194	24.76	VA1T	30.2	-18.8	36.16	54	-17.84	-	-	303	245	V

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

Pk - Peak detector

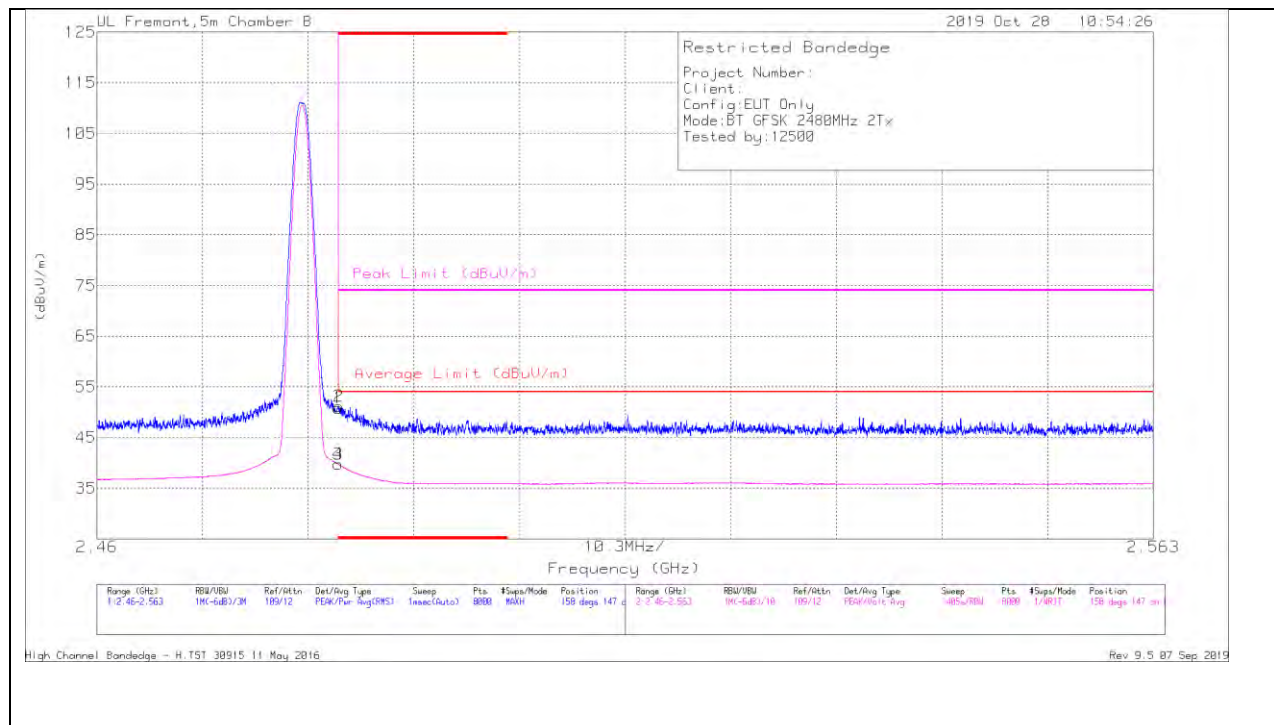
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 07 Sep 2019

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF PRE0194893 (dB/m)	Amp/CbI/Filt/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	* 2.4835	39.55	Pk	30.2	-18.9	50.85	-	-	74	-23.15	158	147	H
2	* 2.48356	39.9	Pk	30.2	-18.9	51.2	-	-	74	-22.8	158	147	H
3	* 2.4835	28.43	VA1T	30.2	-18.9	39.73	54	-14.27	-	-	158	147	H
4	* 2.48353	28.41	VA1T	30.2	-18.9	39.71	54	-14.29	-	-	158	147	H

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

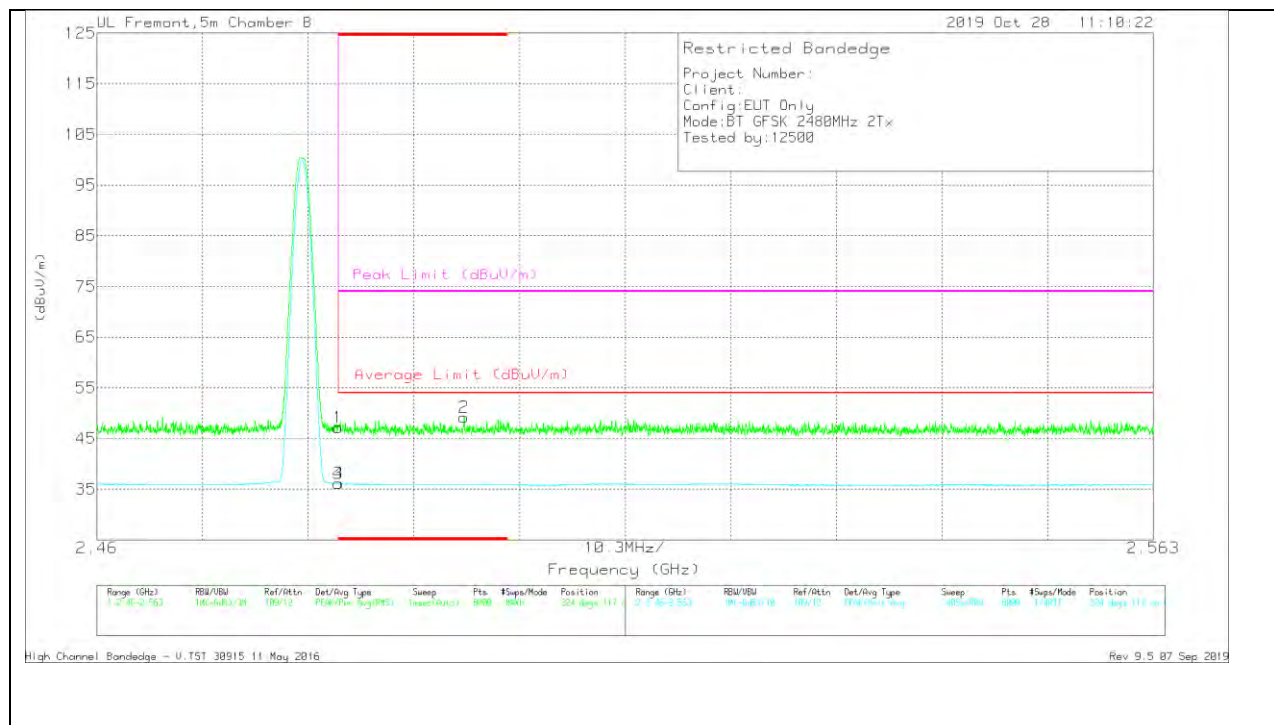
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - H.TST 30915 11 May 2016

Rev 9.5 07 Sep 2019

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF PRE0194893 (dBm)	Amp/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	* 2.4835	35.91	Pk	30.2	-18.9	47.21	-	-	74	-26.79	324	117	V
3	* 2.4835	24.84	VA1T	30.2	-18.9	36.14	54	-17.86	-	-	324	117	V
4	* 2.4835	24.85	VA1T	30.2	-18.9	36.15	54	-17.85	-	-	324	117	V
2	* 2.4958	37.97	Pk	30.1	-18.9	49.17	-	-	74	-24.83	324	117	V

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

Pk - Peak detector

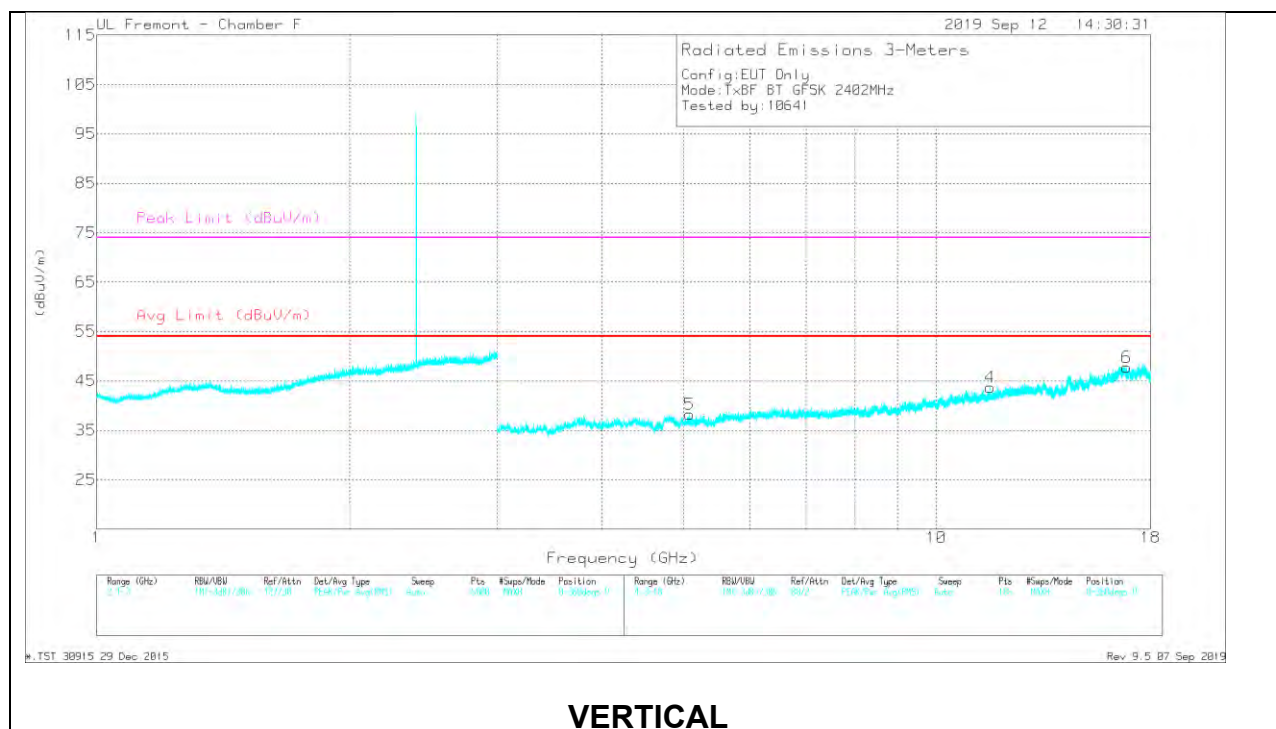
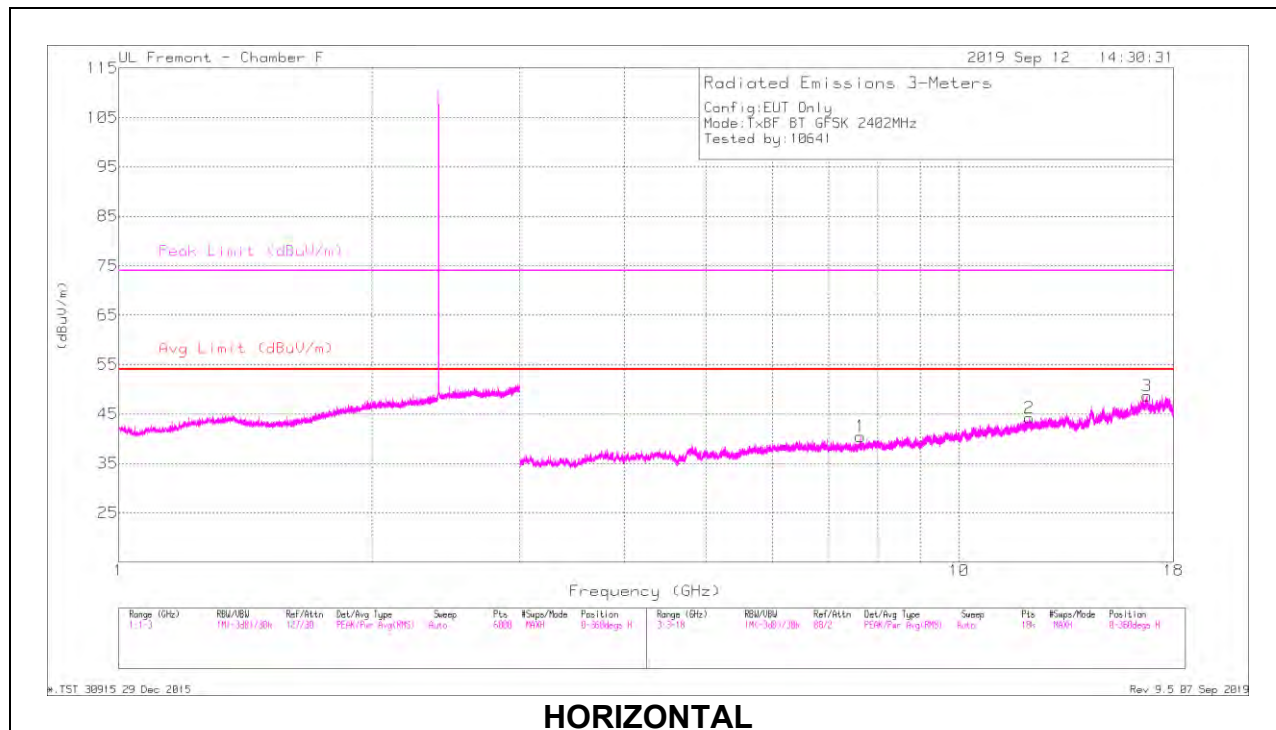
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 07 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

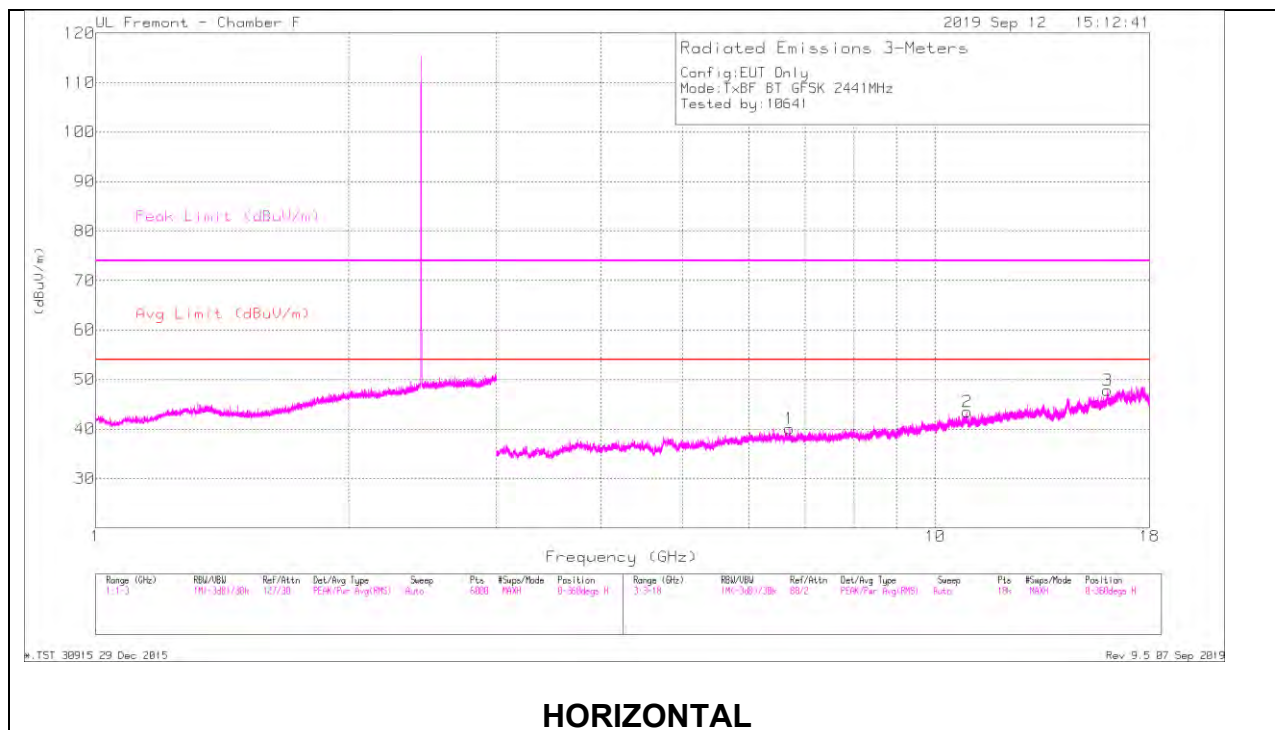
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.63425	49.45	PKFH	35.7	-40.2	44.95	-	-	74	-29.05	31	130	H
	* 7.63373	37.76	VA1T	35.7	-40.2	33.26	54	-20.74	-	-	31	130	H
2	* 12.12311	48.71	PKFH	39	-38.8	48.91	-	-	74	-25.09	77	147	H
	* 12.12023	37.47	VA1T	39	-38.8	37.67	54	-16.33	-	-	77	147	H
3	* 16.7411	49.46	PKFH	41.9	-37.3	54.06	-	-	74	-19.94	104	205	H
4	* 11.58874	49.1	PKFH	38.3	-38.6	48.8	-	-	74	-25.2	126	160	V
	* 11.5887	37.12	VA1T	38.3	-38.6	36.82	54	-17.18	-	-	126	160	V
5	* 5.08961	52.81	PKFH	34.2	-43.4	43.61	-	-	74	-30.39	115	188	V
	* 5.08745	40.99	VA1T	34.2	-43.3	31.89	54	-22.11	-	-	115	188	V
6	* 16.86596	49.43	PKFH	41.8	-38.4	52.83	-	-	74	-21.17	145	229	V

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

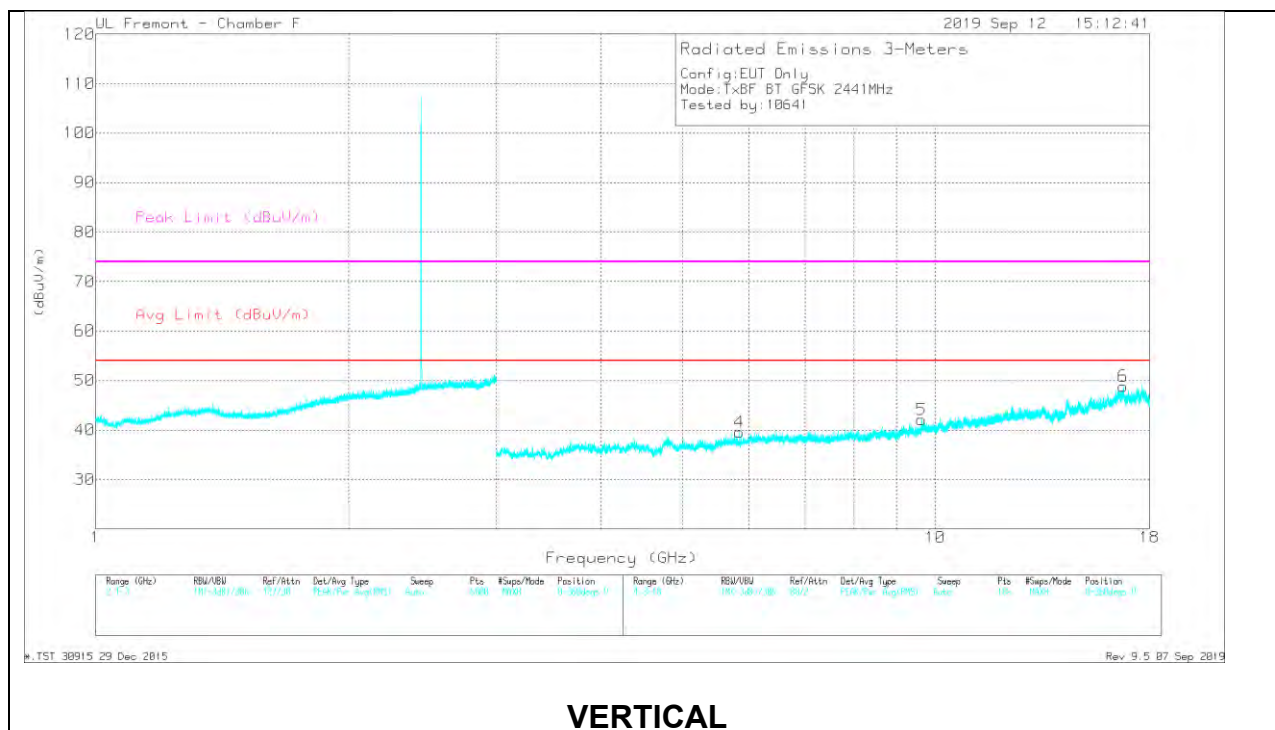
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
* 10.91173	49.36	PKFH	38	-38.2	49.16	-	-	74	-24.84	21	119	H
* 10.91172	36.98	VA1T	38	-38.2	36.78	54	-17.22	-	-	21	119	H
* 16.03871	49.81	PKFH	40.8	-37.1	53.51	-	-	74	-20.49	60	129	H
* 16.03757	37.8	VA1T	40.8	-37.1	41.5	54	-12.5	-	-	60	129	H
* 16.03781	49.98	PKFH	40.8	-37	53.78	-	-	74	-20.22	95	215	H
* 16.03843	37.9	VA1T	40.8	-37	41.7	54	-12.3	-	-	95	215	H
6.70733	50.46	PKFH	35.8	-41.2	45.06	-	-	-	-	135	235	H
5.84104	50.78	PKFH	35.1	-41.7	44.18	-	-	-	-	348	101	V
9.63866	50.02	PKFH	36.9	-39.2	47.72	-	-	-	-	306	119	V
16.75501	49.41	PKFH	41.9	-37.3	54.01	-	-	-	-	274	148	V

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

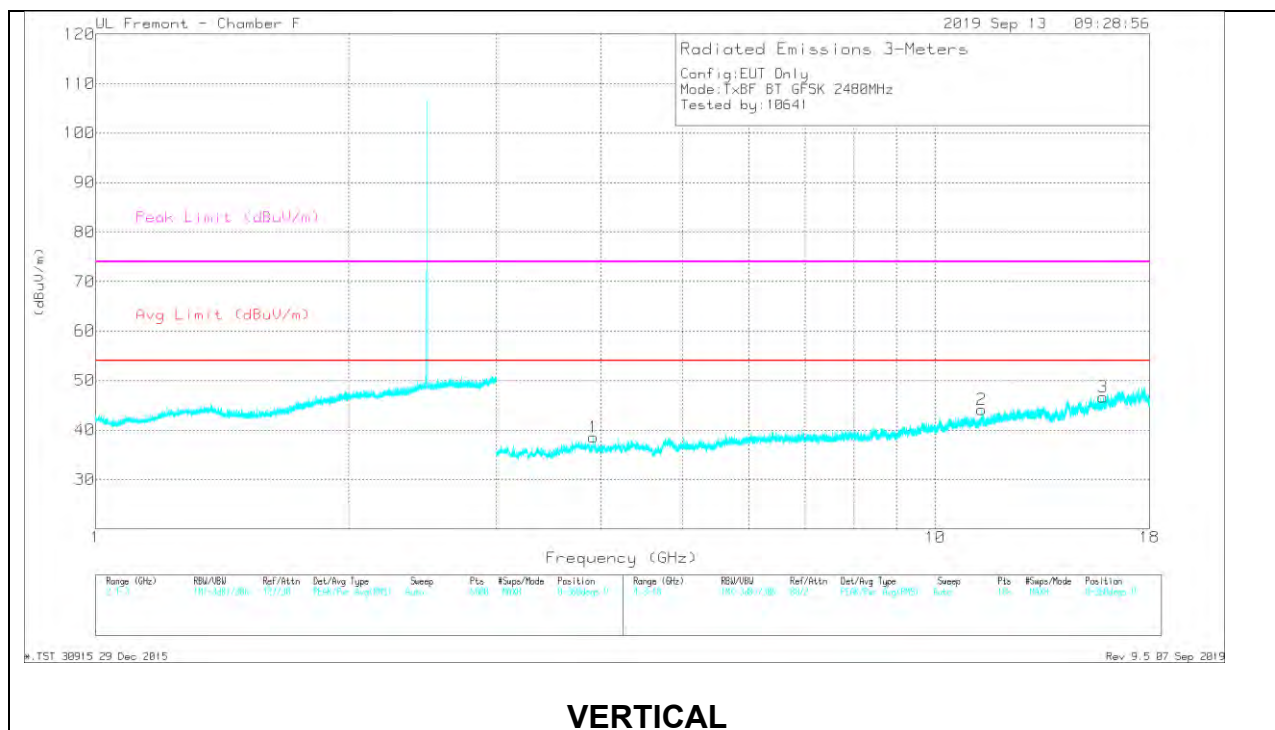
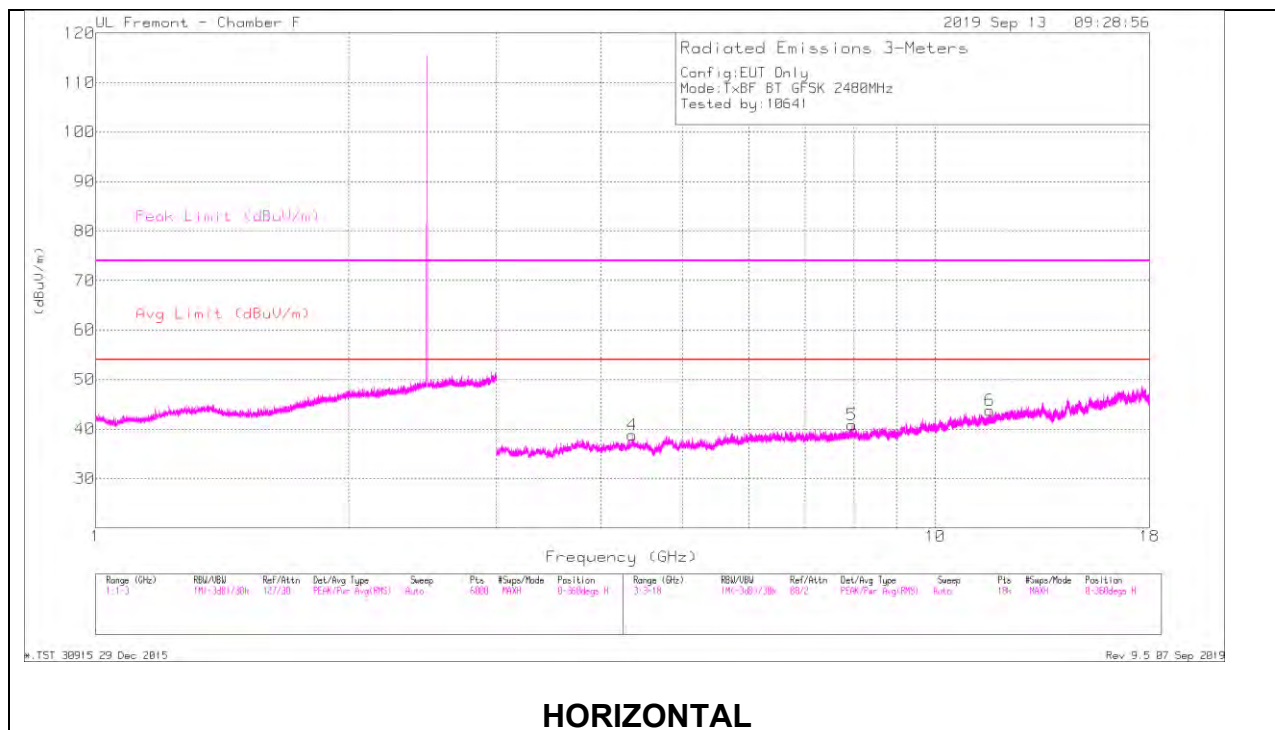
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
4	* 4.35707	54.96	PKFH	33.9	-44.3	44.56	-	-	74	-29.44	314	131	H
	* 4.3603	42.21	VA1T	33.9	-44.2	31.91	54	-22.09	-	-	314	131	H
6	* 11.61068	49.06	PKFH	38.3	-38.5	48.86	-	-	74	-25.14	278	149	H
	* 11.60981	36.99	VA1T	38.3	-38.5	36.79	54	-17.21	-	-	278	149	H
5	7.95786	50.1	PKFH	36	-39.7	46.4	-	-	74	-27.6	148	210	H
1	* 3.91828	52.97	PKFH	33.7	-43.5	43.17	-	-	74	-30.83	222	180	V
	* 3.91702	41.55	VA1T	33.7	-43.5	31.75	54	-22.25	-	-	222	180	V
2	* 11.35681	48	PKFH	38.1	-37.9	48.2	-	-	74	-25.8	201	189	V
	* 11.35528	36.52	VA1T	38.1	-37.9	36.72	54	-17.28	-	-	201	189	V
3	* 15.84079	48.78	PKFH	40.3	-37.7	51.38	-	-	74	-22.62	188	225	V
	* 15.84004	37.13	VA1T	40.3	-37.7	39.73	54	-14.27	-	-	188	225	V

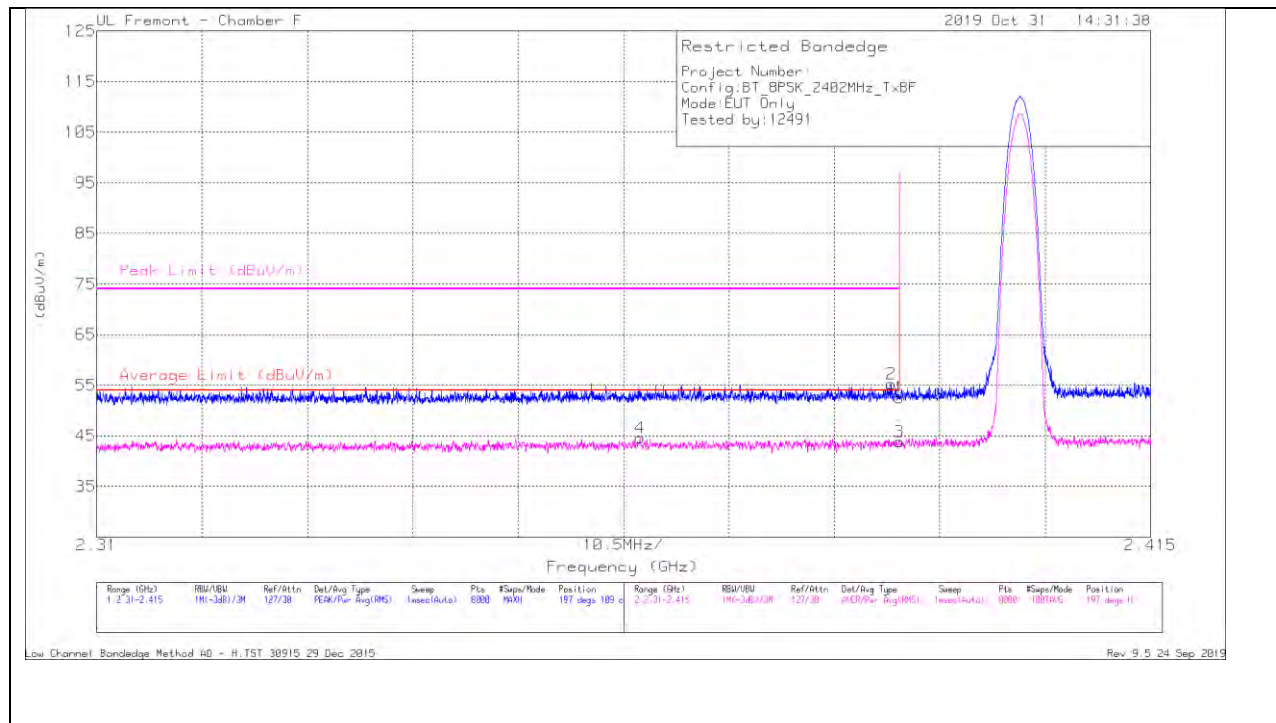
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015
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9.1.6. BEAMFORMING HIGH POWER BASIC DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	56.97	Pk	32	-36.4	52.57	-	-	74	-21.43	197	109	H
2	* 2.38914	59.69	Pk	32	-36.4	55.29	-	-	74	-18.71	197	109	H
3	* 2.39	48.24	RMS	32	-36.4	43.84	54	-10.16	-	-	197	109	H
4	* 2.36415	49.13	RMS	31.8	-36.4	44.53	54	-9.47	-	-	197	109	H

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

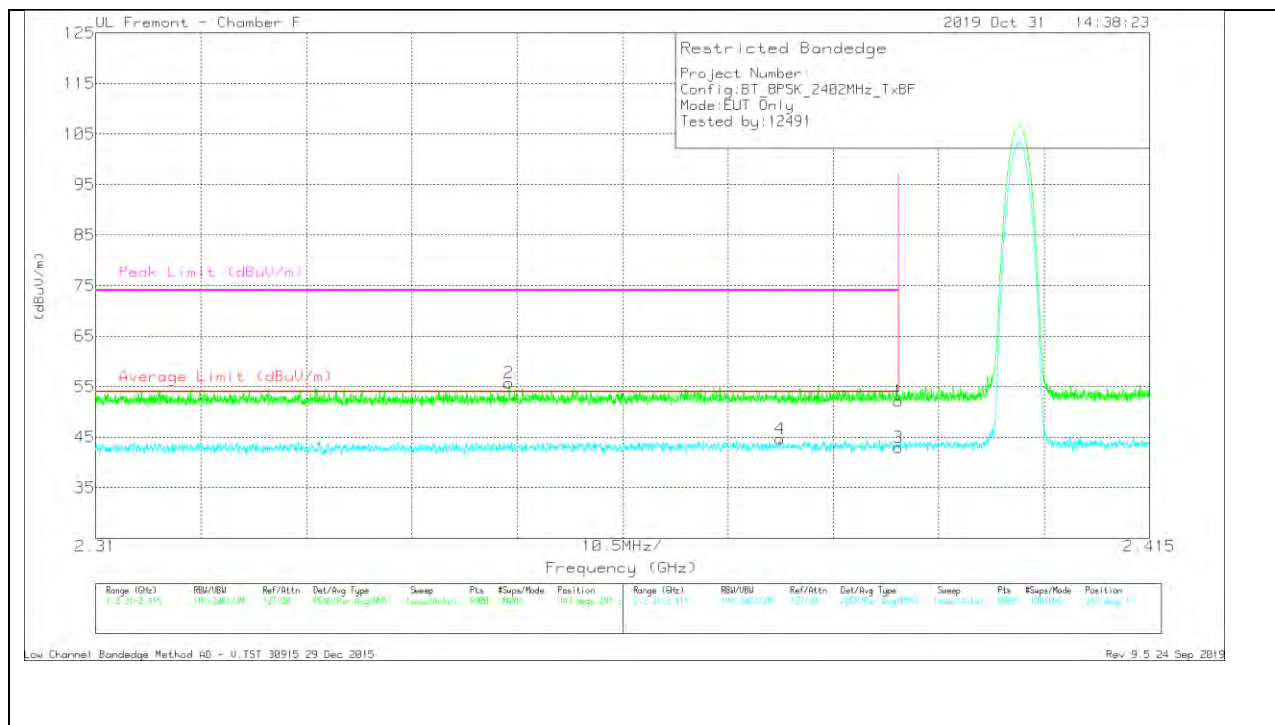
Pk - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - H.TST 30915 29 Dec 2015

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VERTICAL RESULT



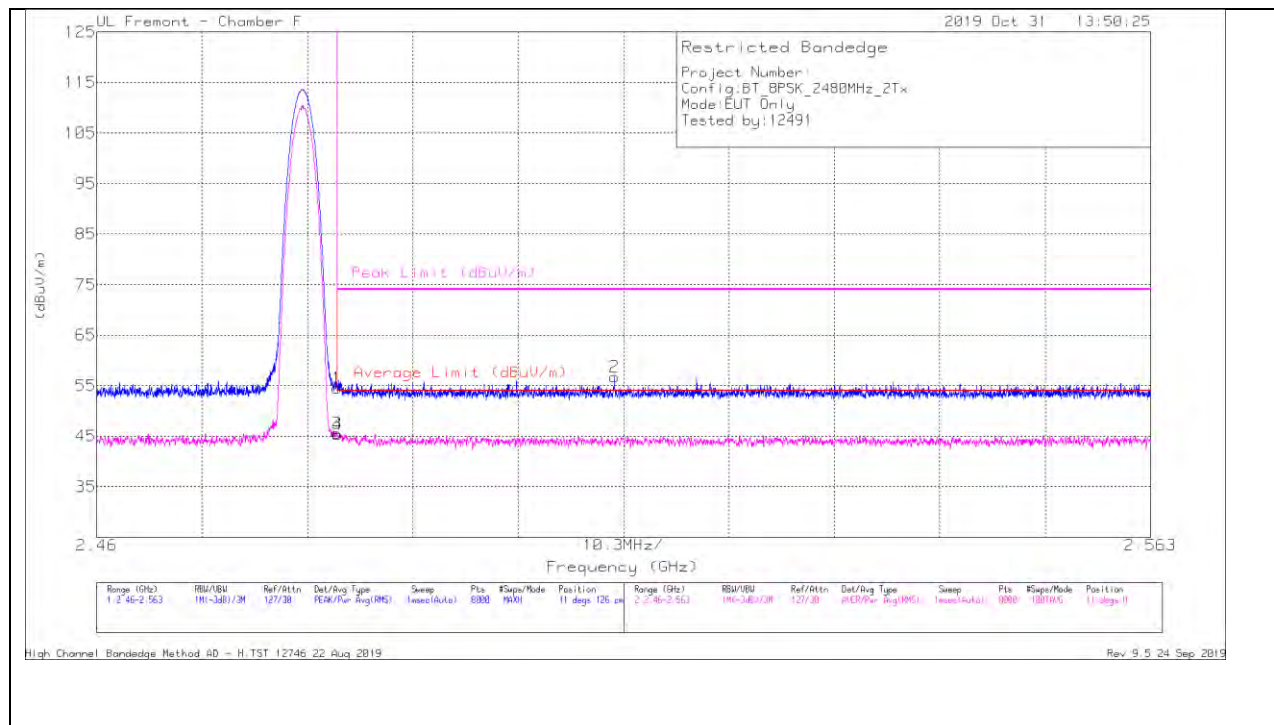
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CbI/Filt/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	56.61	Pk	32	-36.4	52.21	-	-	74	-21.79	343	391	V
2	* 2.35118	60.57	Pk	31.7	-36.5	55.77	-	-	74	-18.23	343	391	V
3	* 2.39	47.38	RMS	32	-36.4	42.98	54	-11.02	-	-	343	391	V
4	* 2.37817	49.33	RMS	31.9	-36.5	44.73	54	-9.27	-	-	343	391	V

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

Low Channel Bandedge Method AD - V.TST 30915 29 Dec 2015
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BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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	* 2.4835	58.33	Pk	32.4	-36.2	54.53	-	-	74	-19.47	11	126	H
2	2.51061	60.5	Pk	32.4	-36.2	56.7	-	-	74	-17.3	11	126	H
3	* 2.4835	49.35	RMS	32.4	-36.2	45.55	54	-8.45	-	-	11	126	H
4	* 2.48355	49.12	RMS	32.4	-36.2	45.32	54	-8.68	-	-	11	126	H

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

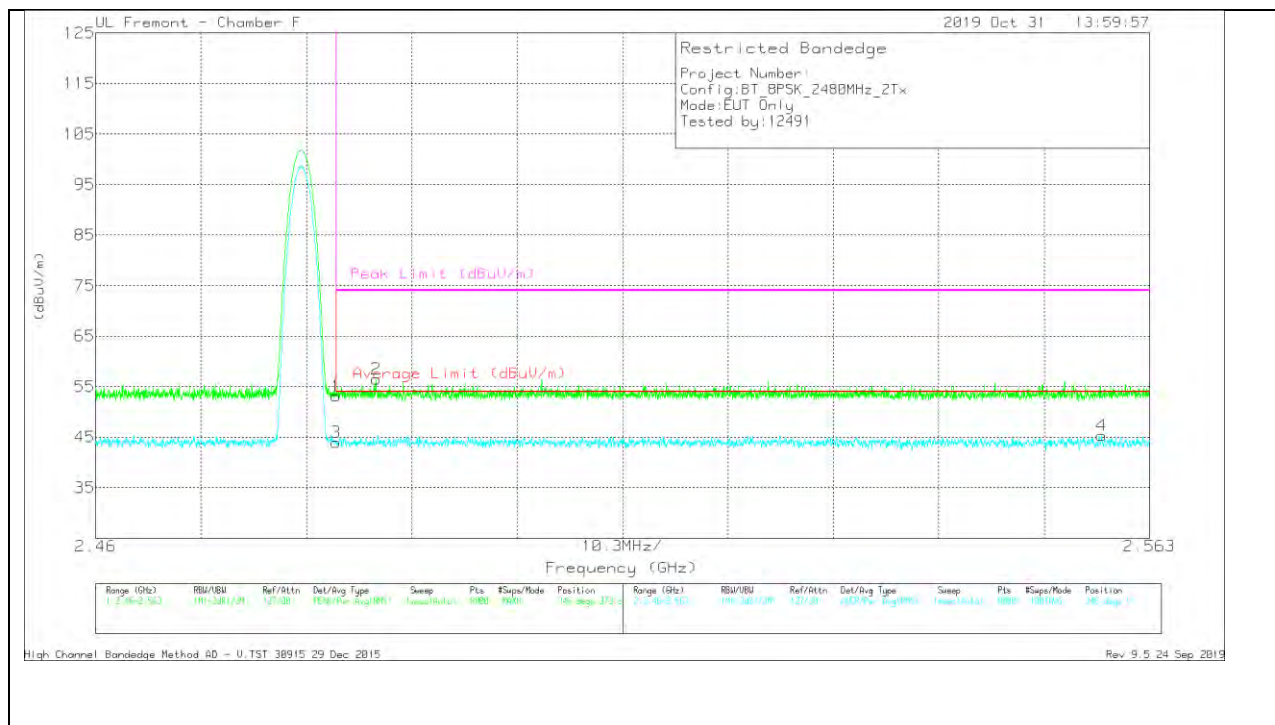
Pk - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - H.TST 12746 22 Aug 2019

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VERTICAL RESULT



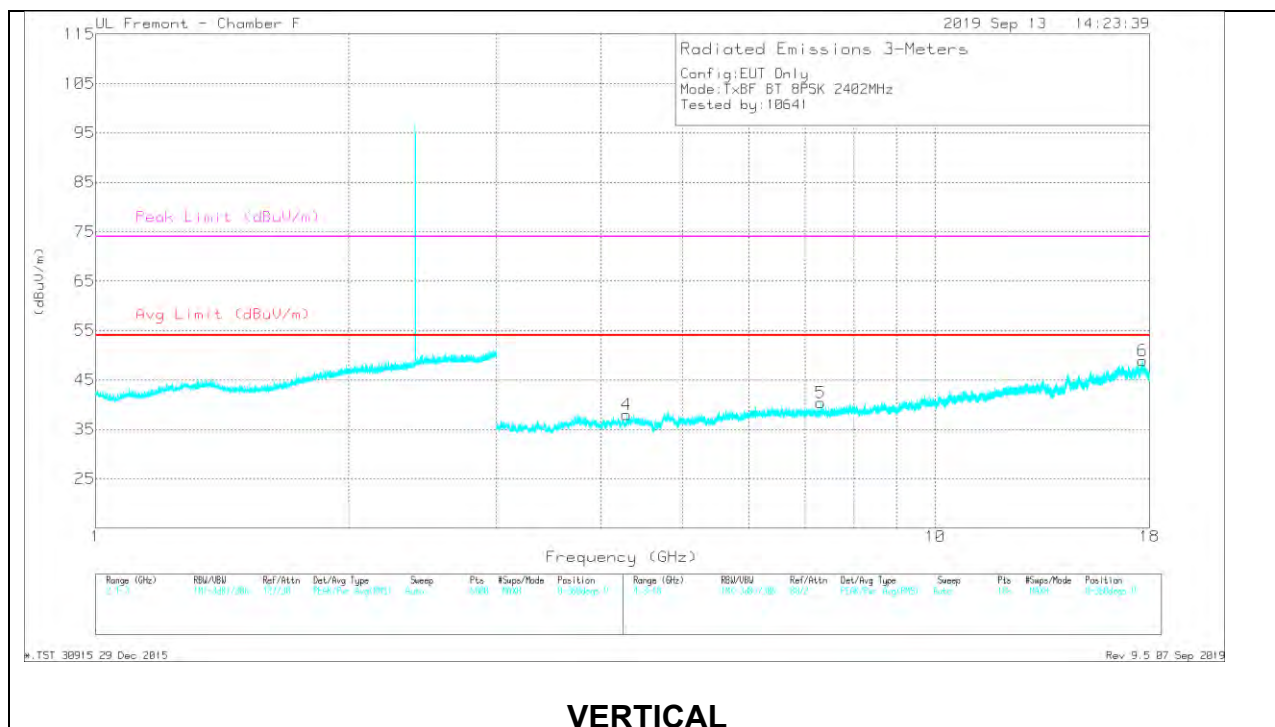
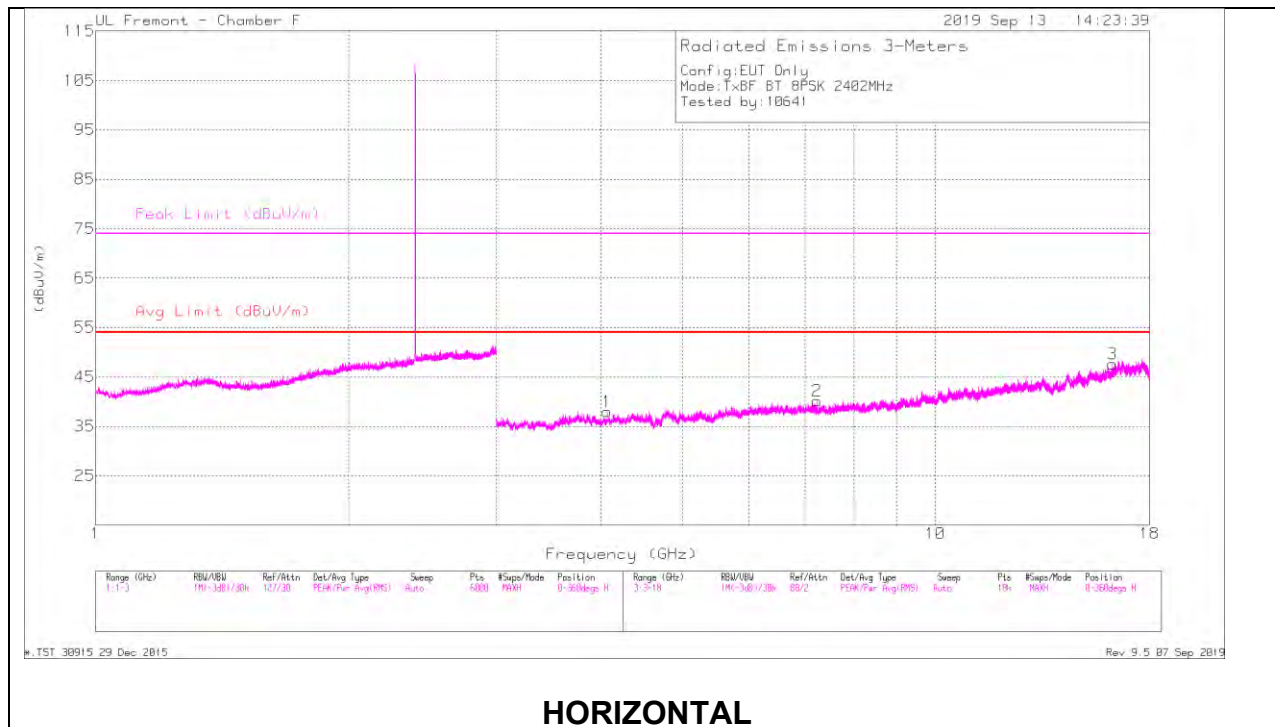
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtz/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	56.97	Pk	32.4	-36.2	53.17	-	-	74	-20.83	346	373	V
2	* 2.4874	60.36	Pk	32.3	-36.2	56.46	-	-	74	-17.54	346	373	V
3	* 2.4835	47.72	RMS	32.4	-36.2	43.92	54	-10.08	-	-	346	373	V
4	2.55832	49.15	RMS	32.4	-36.2	45.35	54	-8.65	-	-	346	373	V

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

High Channel Bandedge Method AD - V.TST 30915 29 Dec 2015
Rev 9.5 24 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 4.06966	52.56	PKFH	33.9	-43.5	42.96	-	-	74	-31.04	313	119	H
	* 4.06921	40.18	VA1T	33.8	-43.4	30.58	54	-23.42	-	-	313	119	H
2	7.22773	51.13	PKFH	35.6	-41.2	45.53	-	-	74	-28.47	192	141	H
3	16.25504	50	PKFH	41.1	-38.4	52.7	-	-	74	-21.3	209	153	H
4	* 4.29112	52.58	PKFH	33.9	-44.1	42.38	-	-	74	-31.62	281	134	V
	* 4.29183	41.42	VA1T	33.9	-44.1	31.22	54	-22.78	-	-	281	134	V
5	* 7.30109	50.16	PKFH	35.6	-40.3	45.46	-	-	74	-28.54	243	112	V
	* 7.29908	38.05	VA1T	35.6	-40.3	33.35	54	-20.65	-	-	243	112	V
6	17.64761	49.28	PKFH	41.6	-36.4	54.48	-	-	74	-19.52	224	120	V

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

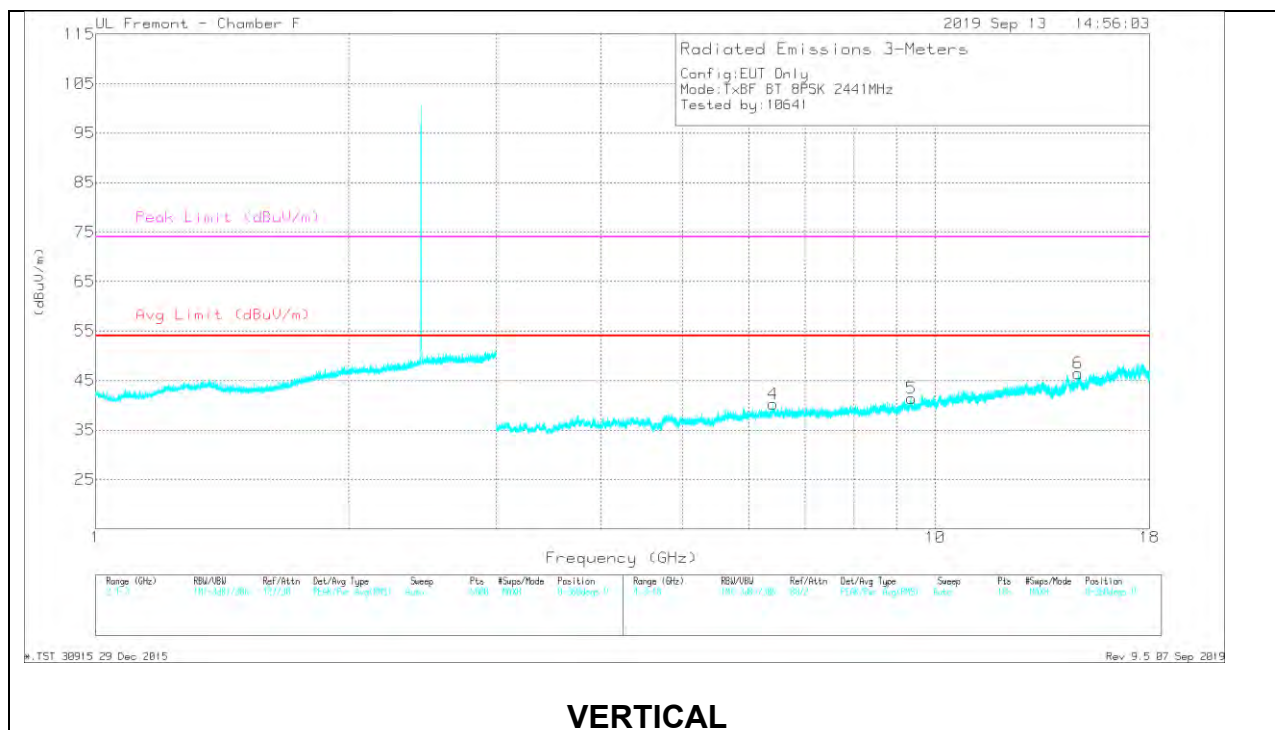
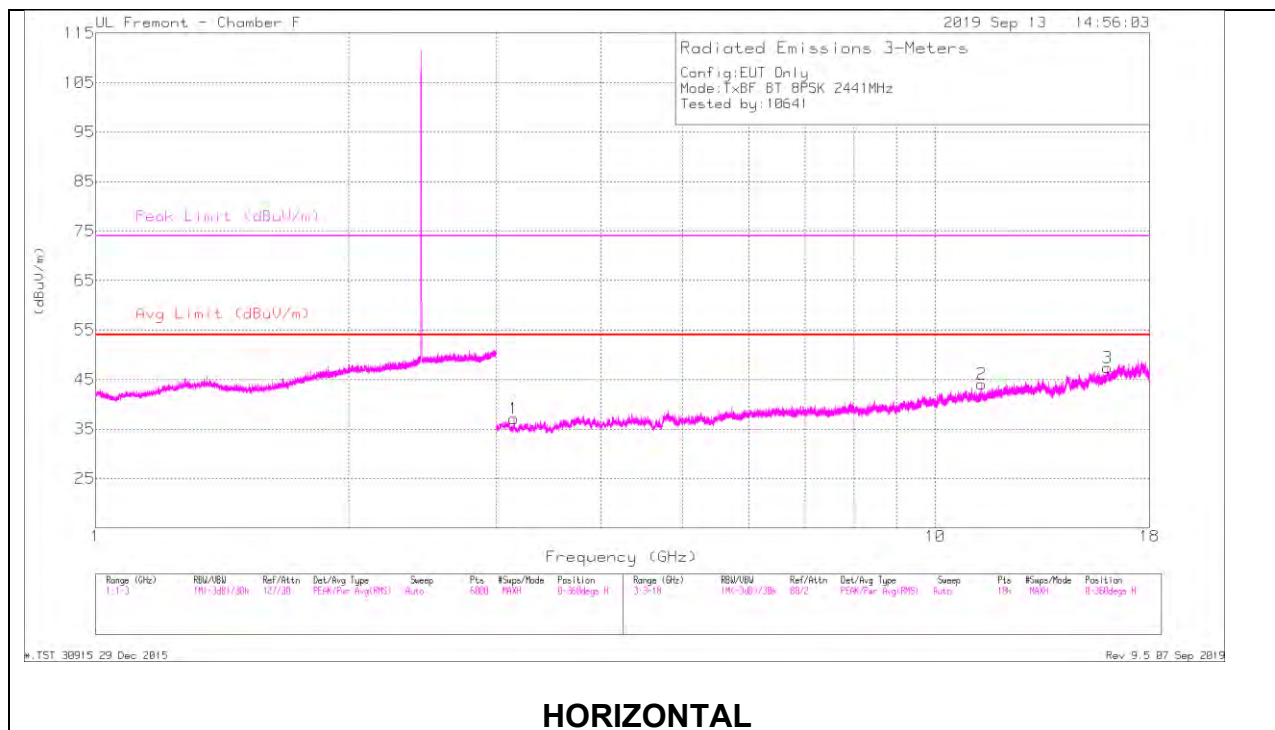
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	3.1513	53.18	PKFH	32.8	-43.7	42.28	-	-	74	-31.72	338	212	H
3	* 16.04849	50.28	PKFH	40.8	-37.2	53.88	-	-	74	-20.12	150	210	H
	* 16.05009	37.84	VA1T	40.8	-37.3	41.34	54	-12.66	-	-	150	210	H
2	* 11.3675	48.15	PKFH	38.1	-37.7	48.55	-	-	74	-25.45	155	197	H
	* 11.36598	36.36	VA1T	38.1	-37.7	36.76	54	-17.24	-	-	155	197	H
6	14.79485	50.62	PKFH	39.7	-38.5	51.82	-	-	74	-22.18	104	184	V
5	* 9.36647	49.65	PKFH	36.4	-39.8	46.25	-	-	74	-27.75	135	193	V
	* 9.36359	37.88	VA1T	36.4	-39.8	34.48	54	-19.52	-	-	135	193	V
4	6.40915	50.99	PKFH	35.7	-40.5	46.19	-	-	74	-27.81	166	250	V

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

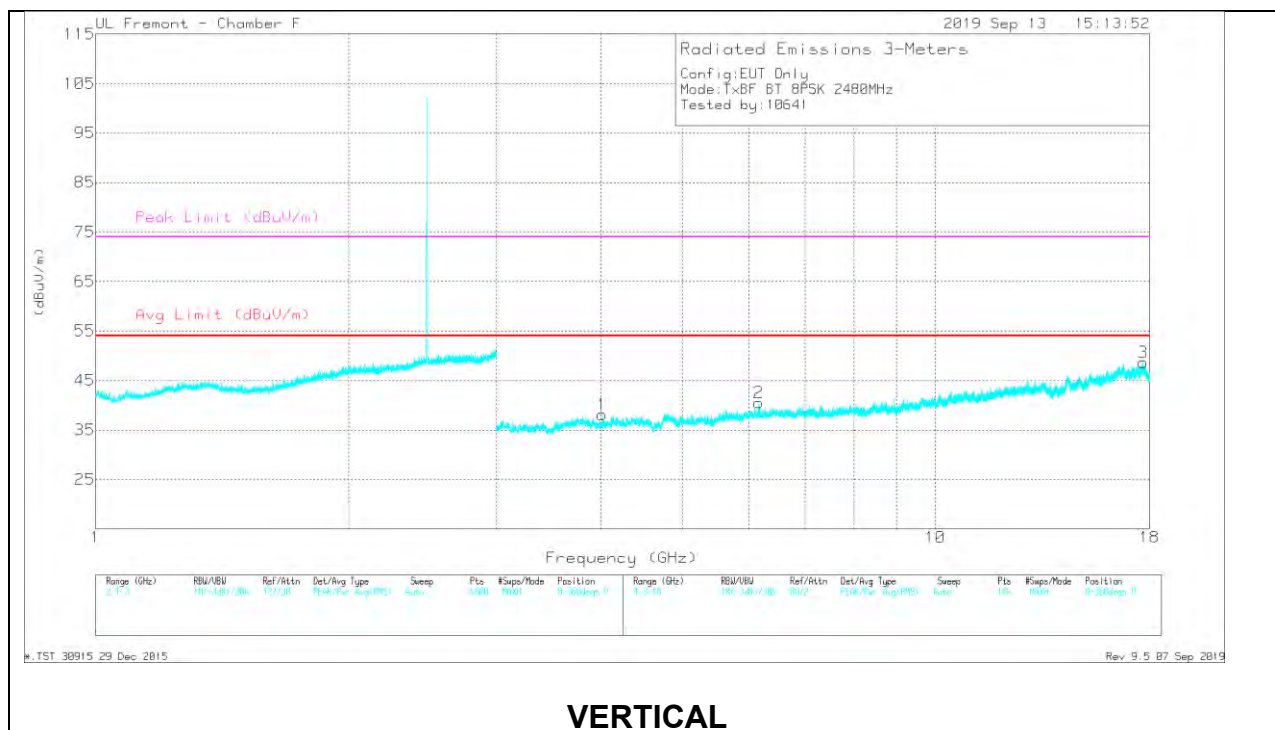
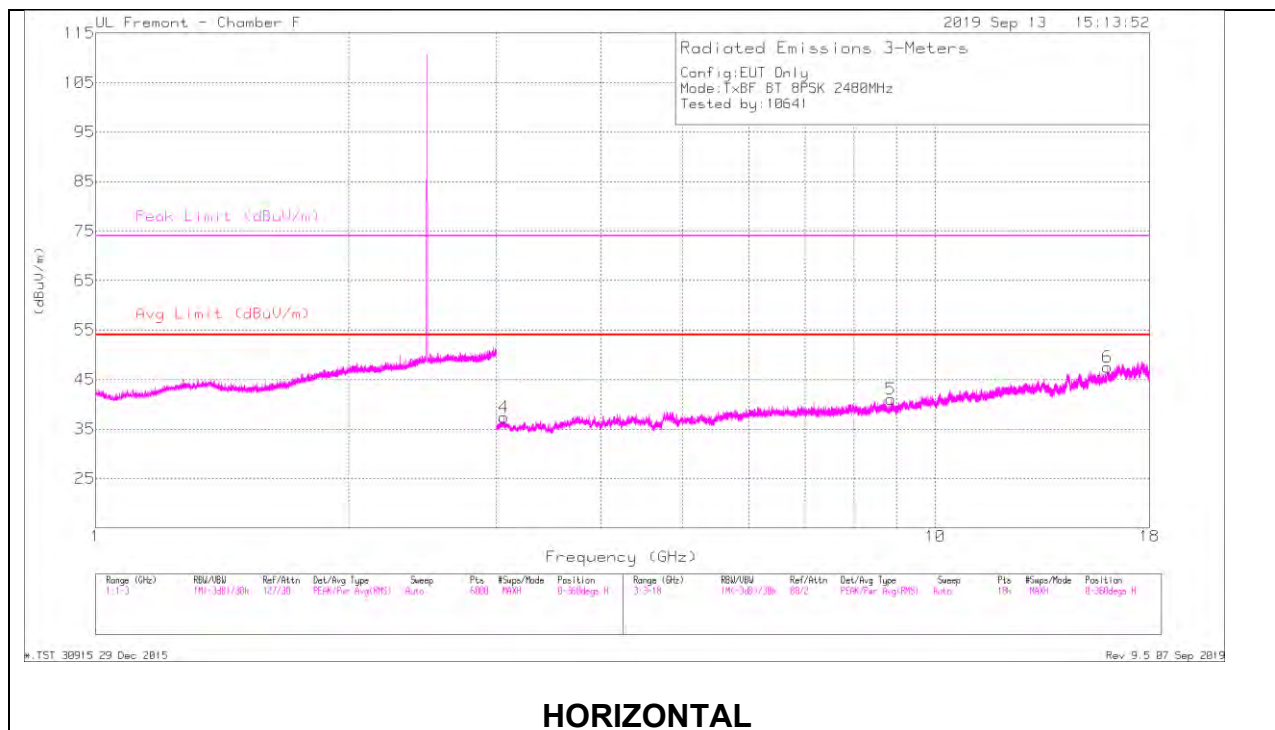
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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
6	* 16.04775	49.42	PKFH	40.8	-37.2	53.02	-	-	74	-20.98	105	123	H
	* 16.04807	37.73	VA1T	40.8	-37.2	41.33	54	-12.67	-	-	105	123	H
4	3.06271	53.41	PKFH	33	-44.1	42.31	-	-	74	-31.69	163	164	H
5	8.85863	49.48	PKFH	36.1	-39.5	46.08	-	-	74	-27.92	203	147	H
1	* 4.01581	52.71	PKFH	33.7	-43.8	42.61	-	-	74	-31.39	143	145	V
	* 4.01706	40.88	VA1T	33.7	-43.7	30.88	54	-23.12	-	-	143	145	V
2	6.15855	50.51	PKFH	35.8	-41.2	45.11	-	-	74	-28.89	221	169	V
3	17.69069	50.19	PKFH	41.6	-37.2	54.59	-	-	74	-19.41	191	185	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

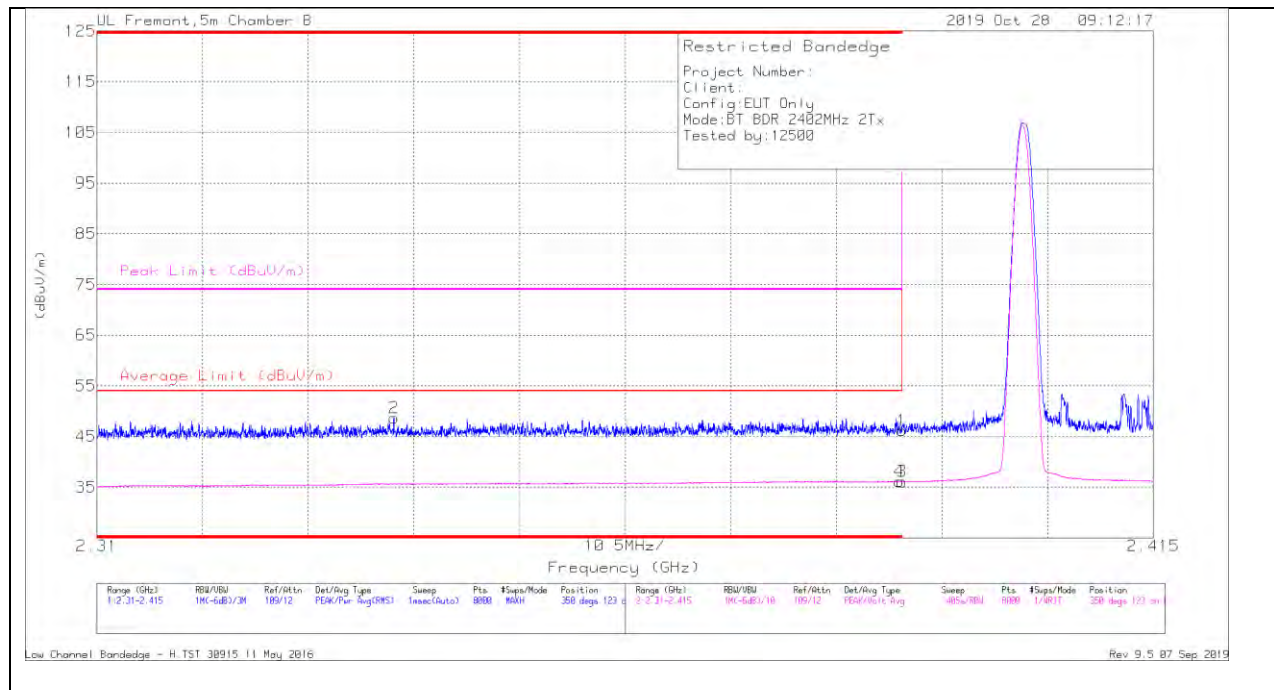
FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 07 Sep 2019

9.1.7. BEAMFORMING LOW POWER BASIC DATA RATE GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/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	* 2.39	34.79	Pk	30.3	-18.9	46.19	-	-	74	-27.81	350	123	H
2	* 2.33951	37.67	Pk	29.9	-18.9	48.67	-	-	74	-25.33	350	123	H
3	* 2.39	24.68	VA1T	30.3	-18.9	36.08	54	-17.92	-	-	350	123	H
4	* 2.38973	24.73	VA1T	30.3	-18.9	36.13	54	-17.87	-	-	350	123	H

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

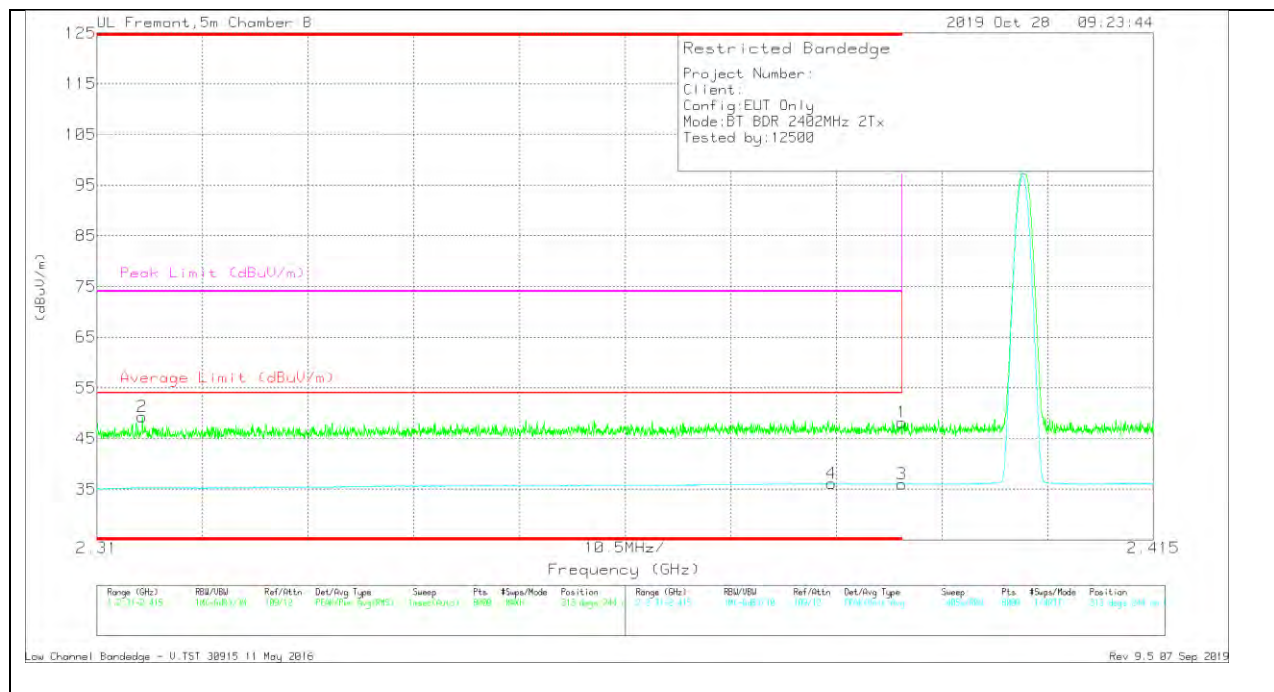
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/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	36.78	PK	30.3	-18.9	48.18	-	-	74	-25.82	313	244	V
2	* 2.3145	38.48	PK	29.6	-18.8	49.28	-	-	74	-24.72	313	244	V
3	* 2.39	24.63	VA1T	30.3	-18.9	36.03	54	-17.97	-	-	313	244	V
4	* 2.38304	24.71	VA1T	30.2	-18.8	36.11	54	-17.89	-	-	313	244	V

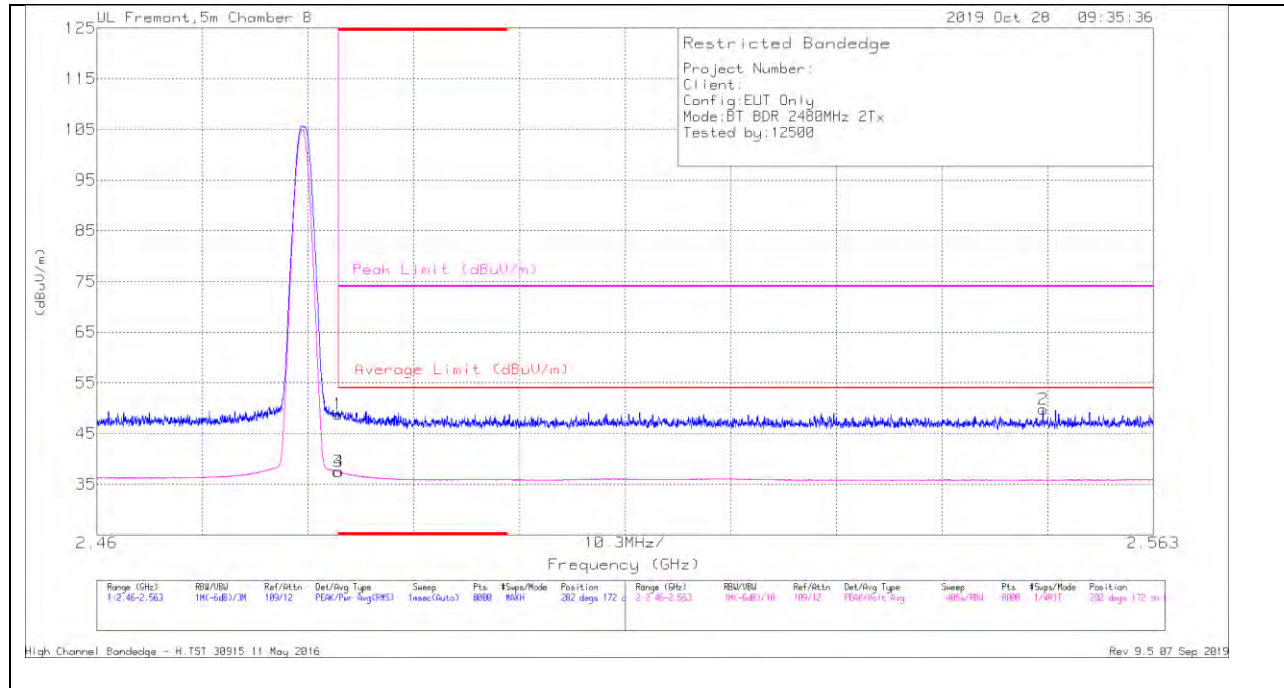
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - V.TST 30915 11 May 2016

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BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF PRE0194893 (dB/m)	Amp/Cb/Filt/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	* 2.4835	37.45	Pk	30.2	-18.9	48.75	-	-	74	-25.25	282	172	H
3	* 2.4835	26.22	VA1T	30.2	-18.9	37.52	54	-16.48	-	-	282	172	H
4	* 2.48356	26.15	VA1T	30.2	-18.9	37.45	54	-16.55	-	-	282	172	H
2	2.55225	38.56	Pk	30.1	-18.9	49.76	-	-	74	-24.24	282	172	H

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

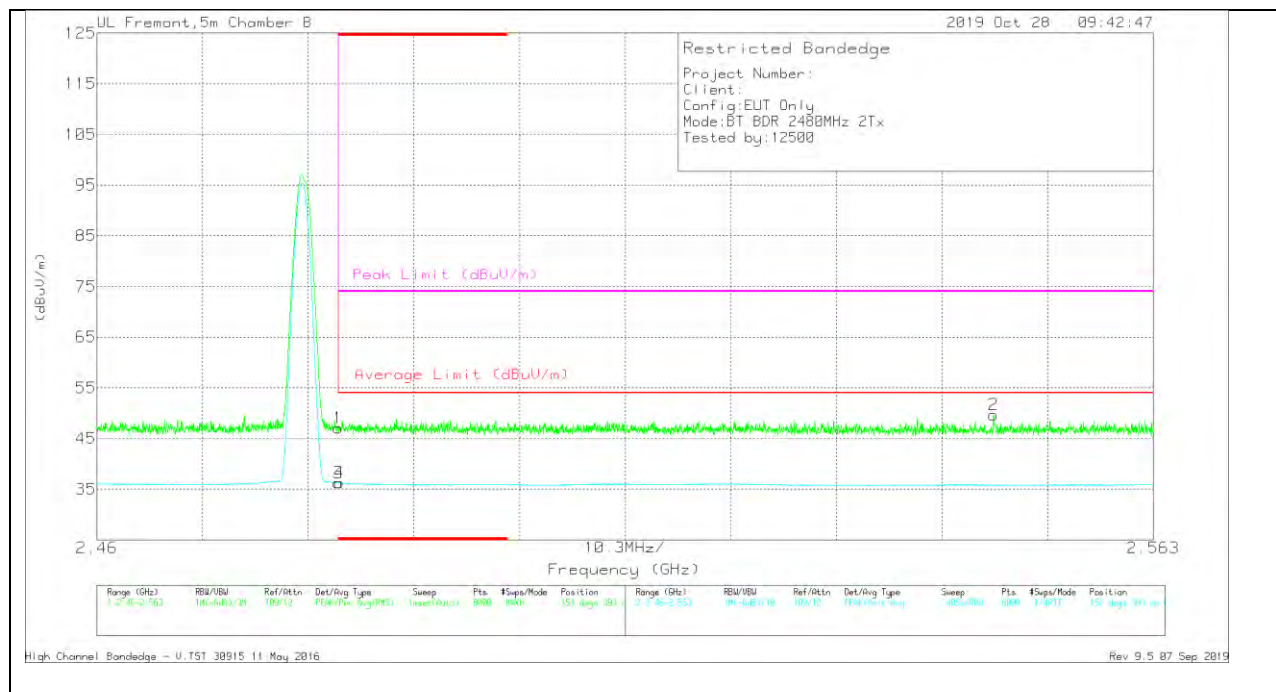
PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/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	* 2.4835	35.71	Pk	30.2	-18.9	47.01	-	-	74	-26.99	151	393	V
3	* 2.4835	24.93	VA1T	30.2	-18.9	36.23	54	-17.77	-	-	151	393	V
4	* 2.48366	24.98	VA1T	30.2	-18.9	36.28	54	-17.72	-	-	151	393	V
2	2.54743	38.42	Pk	30.1	-18.9	49.62	-	-	74	-24.38	151	393	V

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

PK - Peak detector

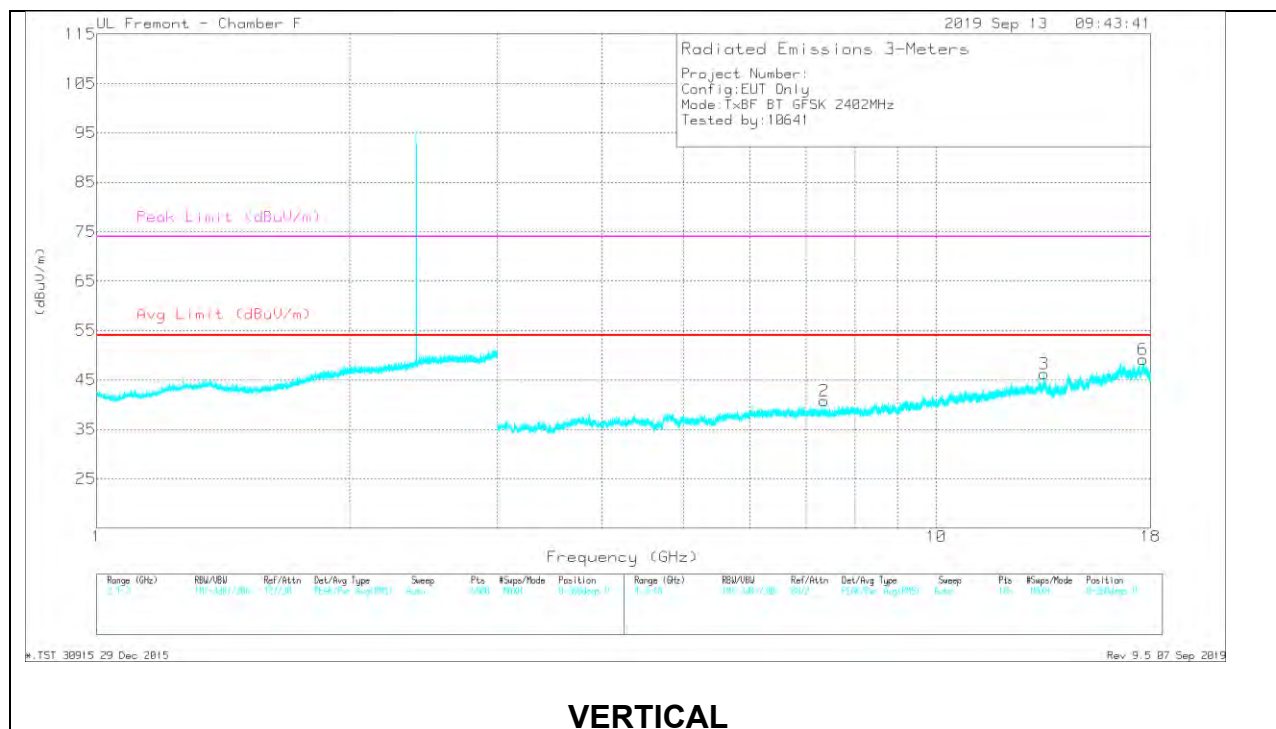
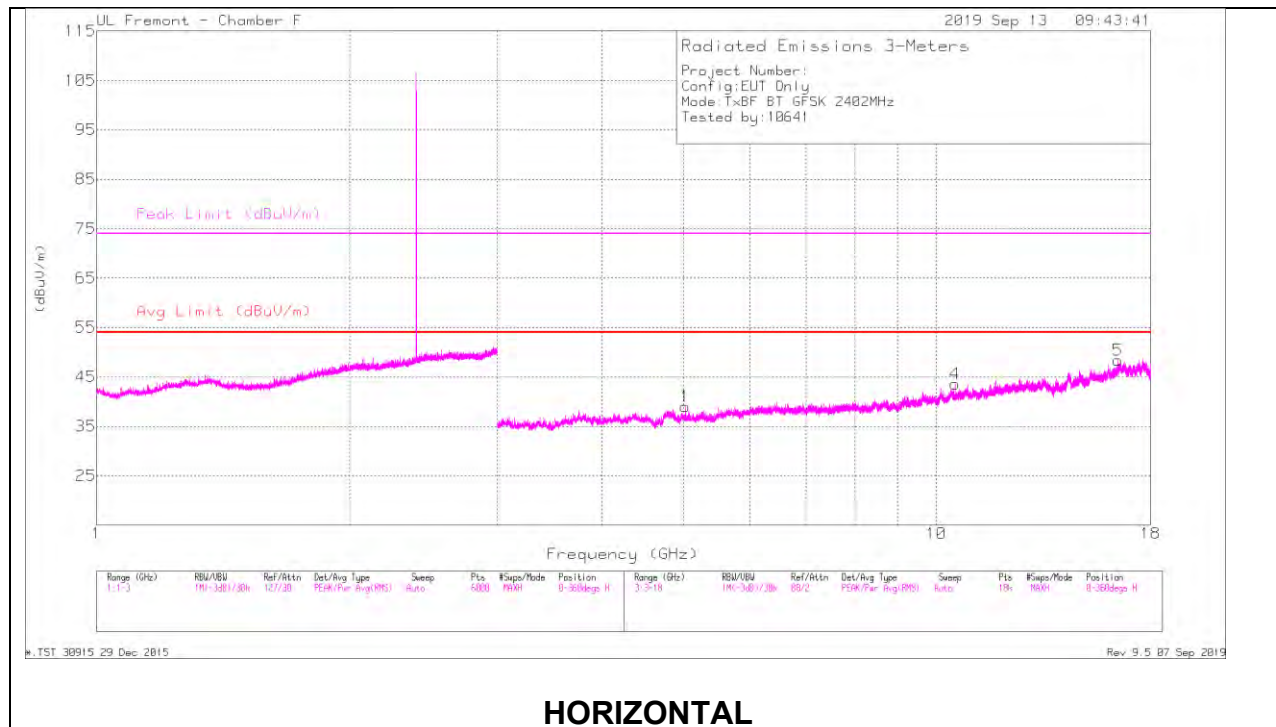
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	10.53176	48.45	PKFH	37.8	-39.2	47.05	-	-	74	-26.95	128	212	H
5	16.47013	49.73	PKFH	41.5	-37.9	53.33	-	-	74	-20.67	150	201	H
1	* 5.02763	53.73	PKFH	34.2	-43.9	44.03	-	-	74	-29.97	123	227	H
	* 5.02653	41.48	VA1T	34.1	-43.9	31.68	54	-22.32	-	-	123	227	H
2	* 7.38564	50.9	PKFH	35.6	-40.5	46	-	-	74	-28	307	181	V
	* 7.40854	38.02	VA1T	35.6	-40.5	33.12	54	-20.88	-	-	307	181	V
3	13.45145	51.13	PKFH	39	-37.9	52.23	-	-	74	-21.77	65	217	V
6	17.62794	48.74	PKFH	41.6	-36.1	54.24	-	-	74	-19.76	97	235	V

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

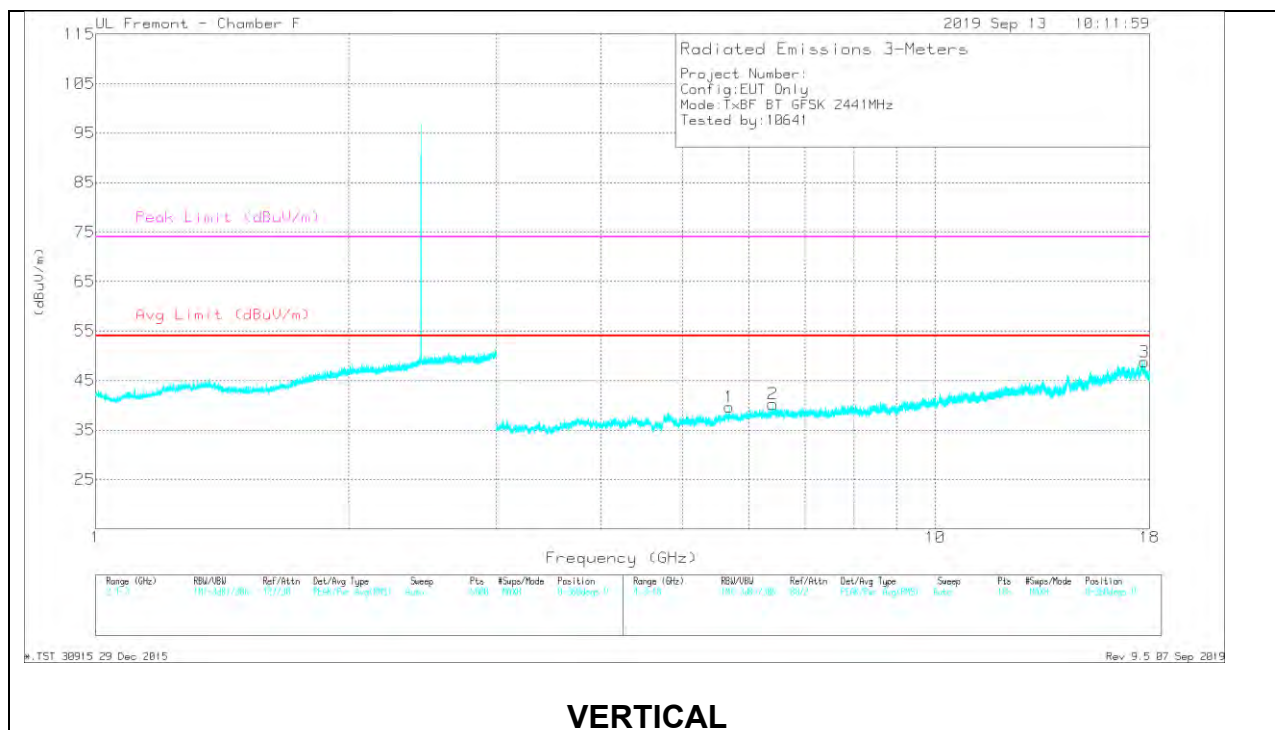
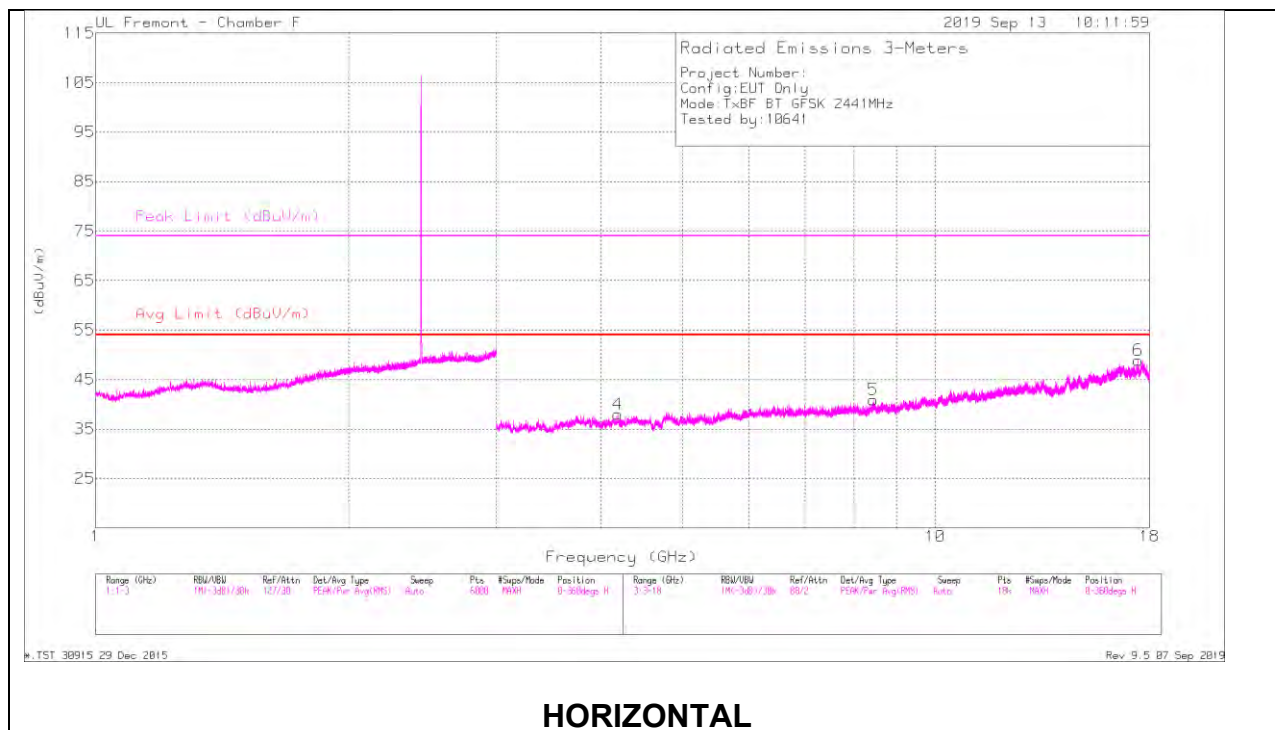
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
4	* 4.18583	53.52	PKFH	33.6	-44	43.12	-	-	74	-30.88	66	115	H
	* 4.18746	41.68	VA1T	33.6	-44	31.28	54	-22.72	-	-	66	115	H
5	* 8.4457	48.77	PKFH	35.9	-39.3	45.37	-	-	74	-28.63	123	133	H
	* 8.44433	37.35	VA1T	35.9	-39.3	33.95	54	-20.05	-	-	123	133	H
6	* 17.44763	49.52	PKFH	41.5	-36.6	54.42	-	-	74	-19.58	159	155	H
3	* 17.75045	49.66	PKFH	41.4	-37.6	53.46	-	-	74	-20.54	169	163	V
	* 17.75206	38.17	VA1T	41.4	-37.6	41.97	54	-12.03	-	-	169	163	V
1	5.68665	51.5	PKFH	34.9	-41.8	44.6	-	-	74	-29.4	112	172	V
2	6.40454	50.57	PKFH	35.6	-40.7	45.47	-	-	74	-28.53	129	160	V

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

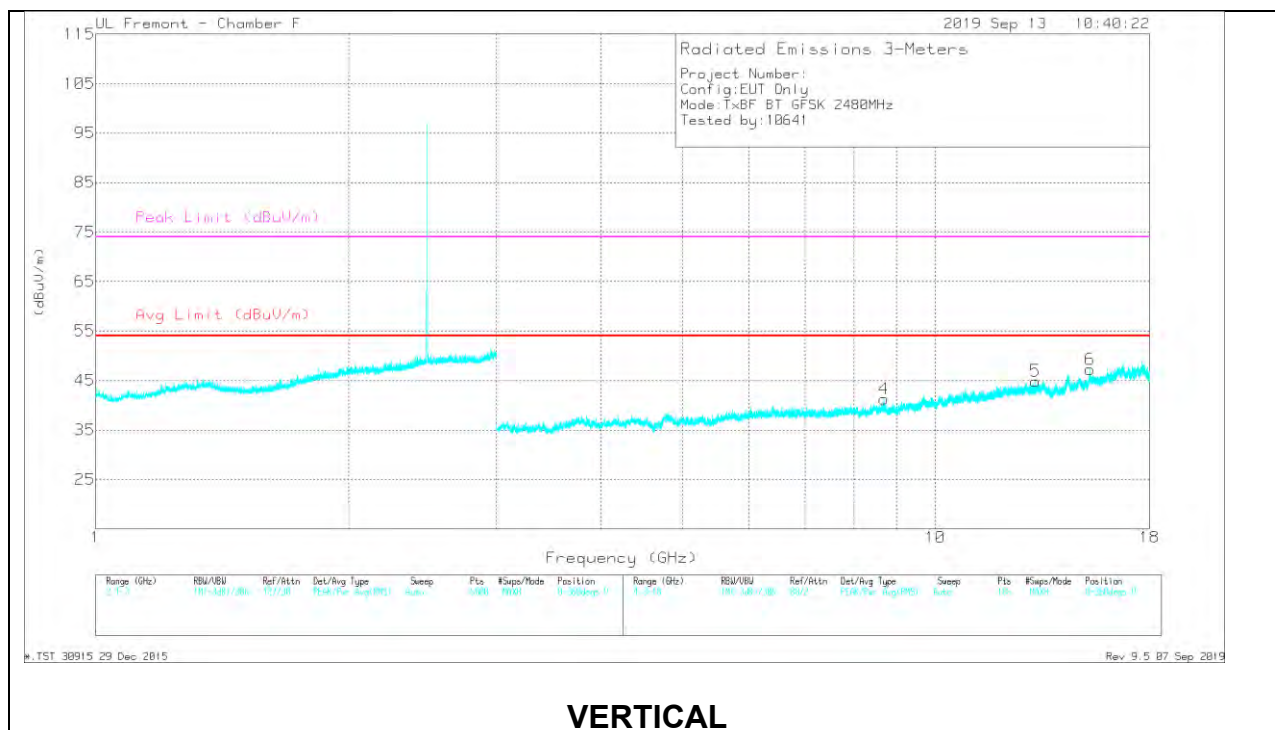
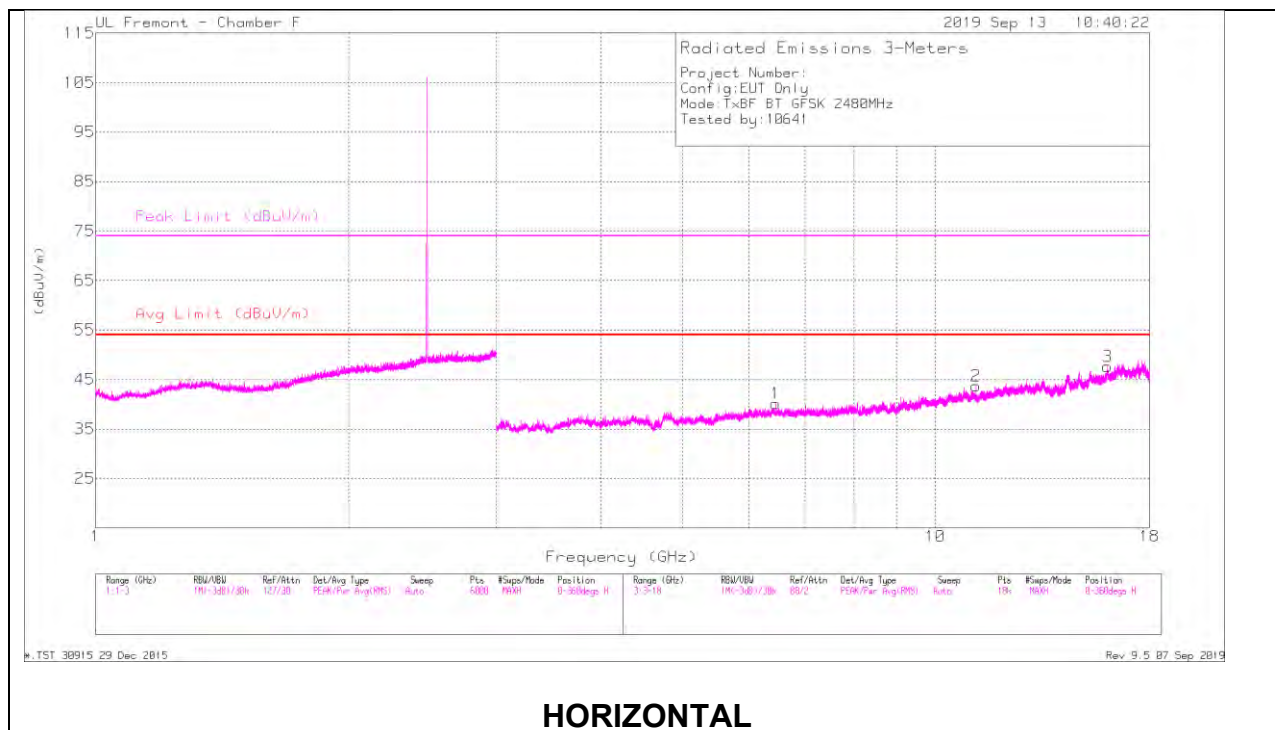
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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
2	* 11.19028	48.13	PKFH	38	-38.3	47.83	-	-	74	-26.17	38	114	H
	* 11.19213	36.48	VA1T	38	-38.3	36.18	54	-17.82	-	-	38	114	H
3	* 16.04072	50.24	PKFH	40.8	-37.1	53.94	-	-	74	-20.06	64	122	H
	* 16.04123	37.79	VA1T	40.8	-37.1	41.49	54	-12.51	-	-	64	122	H
1	6.45257	52.31	PKFH	35.6	-41	46.91	-	-	74	-27.09	104	197	H
4	8.69219	49.37	PKFH	36	-39.4	45.97	-	-	74	-28.03	107	139	V
5	13.15982	48.76	PKFH	39.3	-38.7	49.36	-	-	74	-24.64	148	162	V
6	15.29812	49.97	PKFH	40.1	-37.8	52.27	-	-	74	-21.73	125	180	V

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

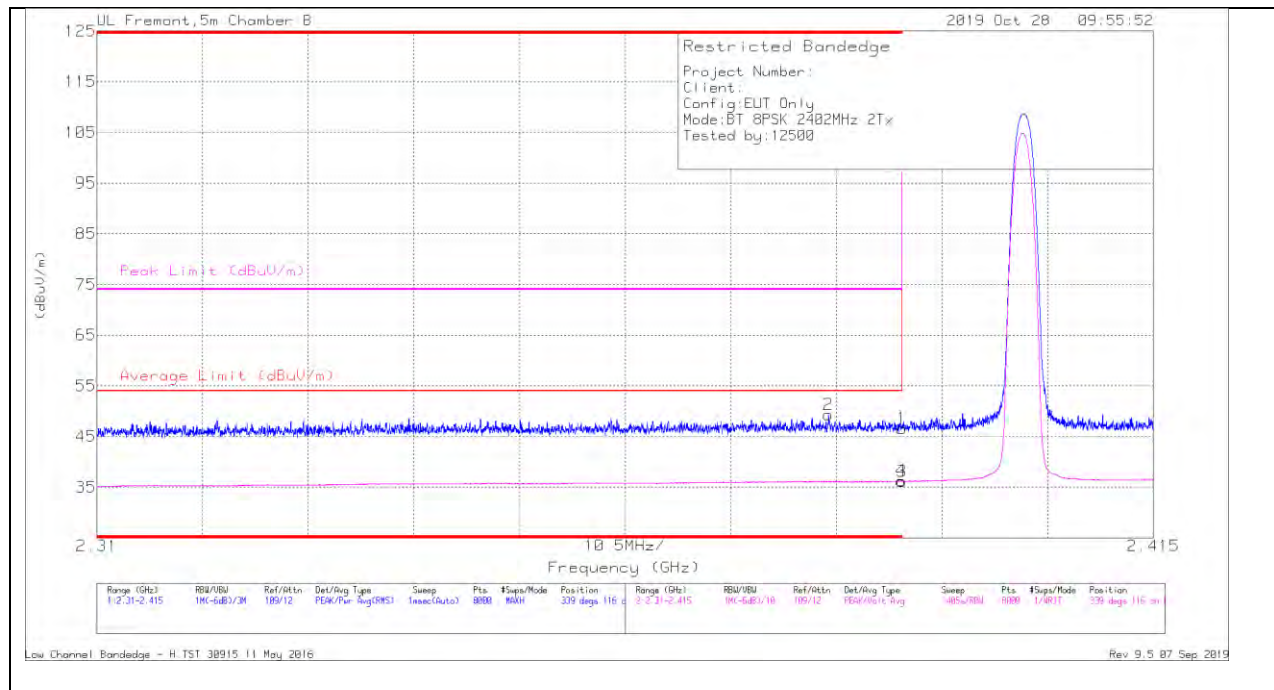
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9.1.8. BEAMFORMING LOW POWER BASIC DATA RATE 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/CbI/Filt/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	35.22	Pk	30.3	-18.9	46.62	-	-	74	-27.38	339	116	H
2	* 2.38271	37.94	Pk	30.2	-18.8	49.34	-	-	74	-24.66	339	116	H
3	* 2.39	24.78	VA1T	30.3	-18.9	36.18	54	-17.82	-	-	339	116	H
4	* 2.38996	24.83	VA1T	30.3	-18.9	36.23	54	-17.77	-	-	339	116	H

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

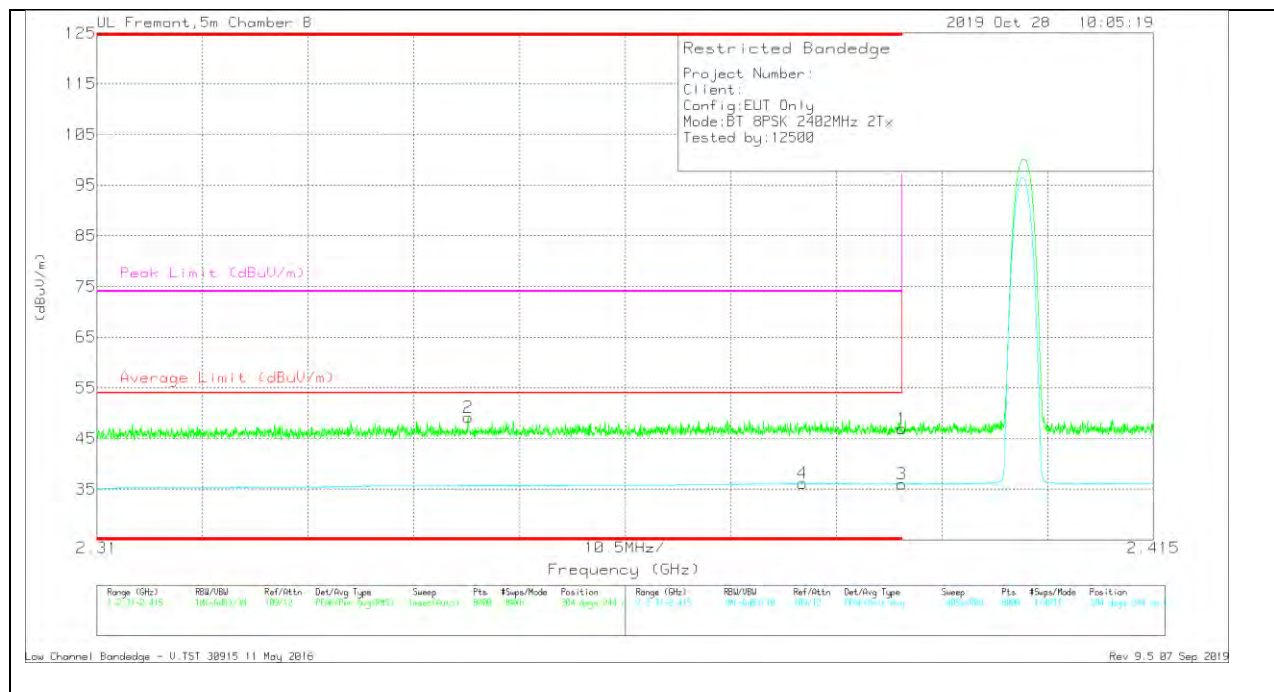
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Low Channel Bandedge - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (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	35.49	Pk	30.3	-18.9	46.89	-	-	74	-27.11	304	244	V
2	* 2.3469	38.13	Pk	30	-18.9	49.23	-	-	74	-24.77	304	244	V
3	* 2.39	24.65	VA1T	30.3	-18.9	36.05	54	-17.95	-	-	304	244	V
4	* 2.38011	24.75	VA1T	30.2	-18.8	36.15	54	-17.85	-	-	304	244	V

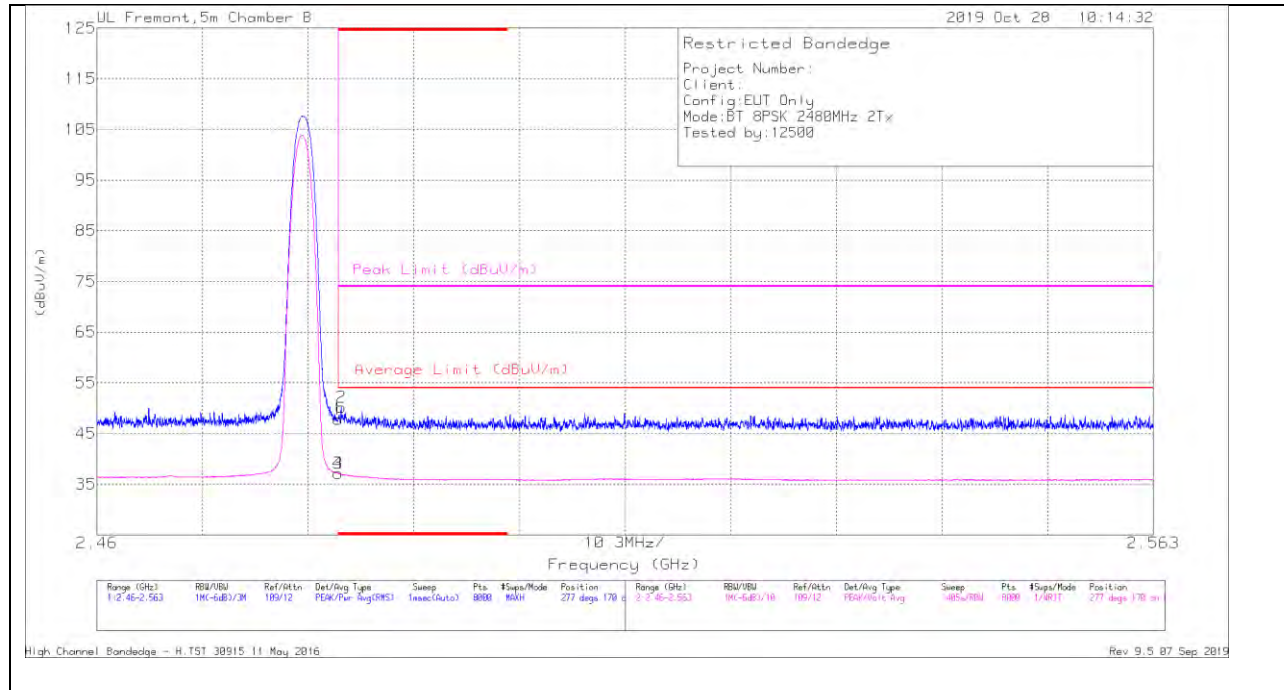
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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BANDEGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/Cb/Filt/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	* 2.4835	36.52	Pk	30.2	-18.9	47.82	-	-	74	-26.18	277	170	H
2	* 2.48381	38.84	Pk	30.2	-18.9	50.14	-	-	74	-23.86	277	170	H
3	* 2.4835	25.88	VA1T	30.2	-18.9	37.18	54	-16.82	-	-	277	170	H
4	* 2.48351	25.88	VA1T	30.2	-18.9	37.18	54	-16.82	-	-	277	170	H

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

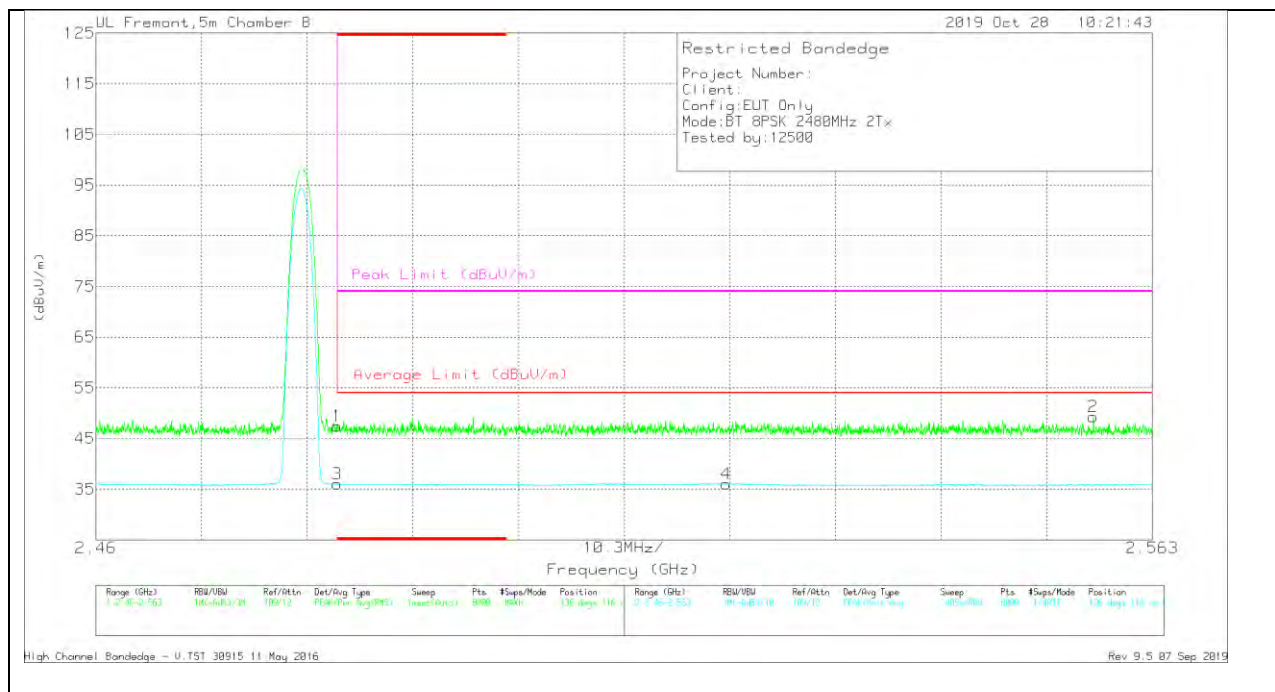
Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - H.TST 30915 11 May 2016

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VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0194893 (dB/m)	Amp/Ctrl/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	* 2.4835	36.08	Pk	30.2	-18.9	47.38	-	-	74	-26.62	136	116	V
3	* 2.4835	24.68	VA1T	30.2	-18.9	35.98	54	-18.02	-	-	136	116	V
4	2.52147	24.77	VA1T	30.1	-18.8	36.07	54	-17.93	-	-	136	116	V
2	2.55725	38.07	Pk	30.1	-18.9	49.27	-	-	74	-24.73	136	116	V

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

PK - Peak detector

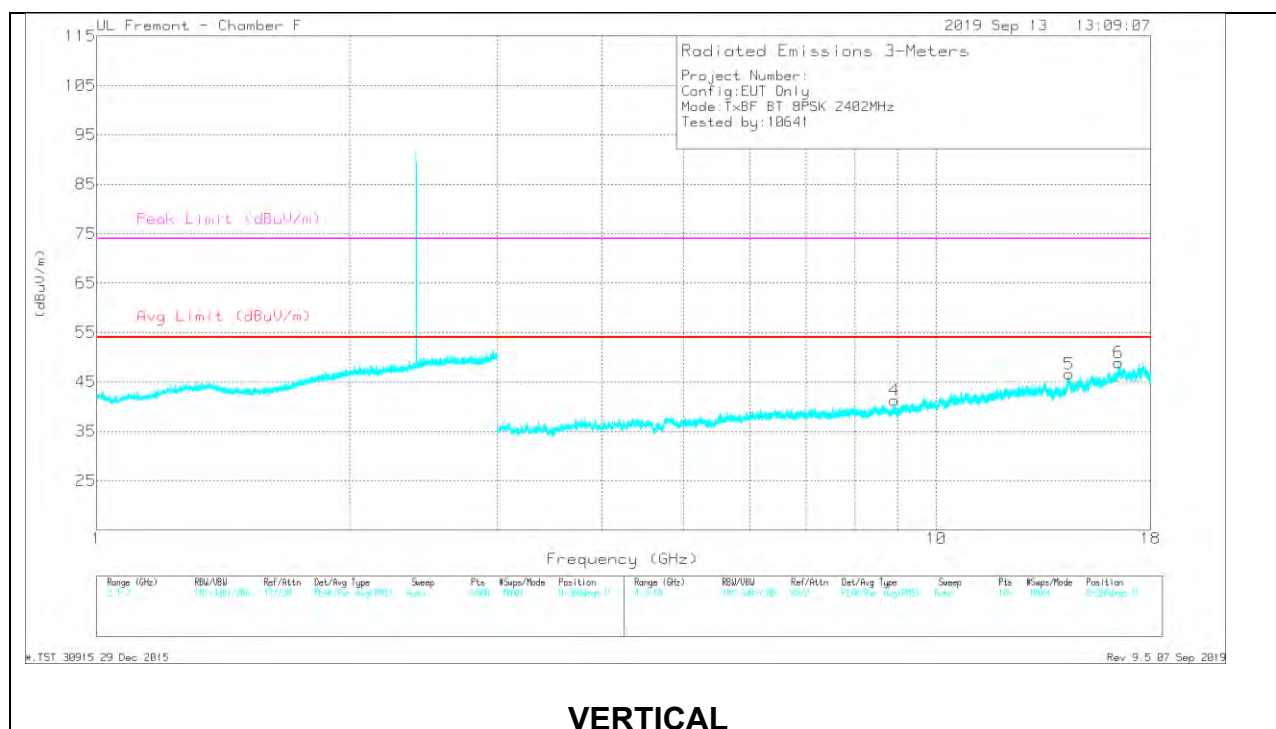
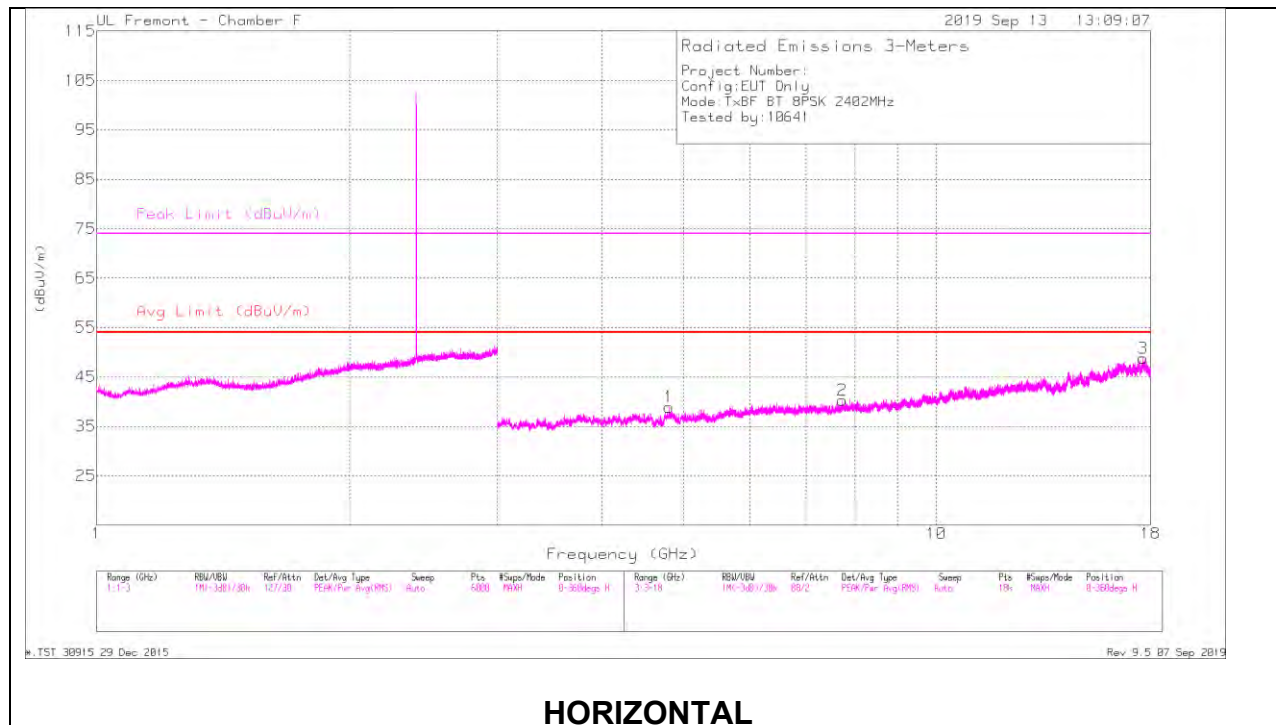
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

High Channel Bandedge - V.TST 30915 11 May 2016

Rev 9.5 07 Sep 2019

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 4.80622	53.44	PKFH	34.2	-44.3	43.34	-	-	74	-30.66	129	116	H
	* 4.80794	41.25	VA1T	34.2	-44.2	31.25	54	-22.75	-	-	129	116	H
2	* 7.73632	49.4	PKFH	35.9	-40.1	45.2	-	-	74	-28.8	167	134	H
	* 7.73669	37.82	VA1T	35.9	-40.1	33.62	54	-20.38	-	-	167	134	H
3	17.63583	48.81	PKFH	41.6	-36.1	54.31	-	-	74	-19.69	194	148	H
4	8.90865	50.21	PKFH	36.2	-39.5	46.91	-	-	74	-27.09	261	191	V
5	14.40067	49.35	PKFH	39.3	-37	51.65	-	-	74	-22.35	236	213	V
6	16.49844	50.37	PKFH	41.5	-37.6	54.27	-	-	74	-19.73	203	226	V

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

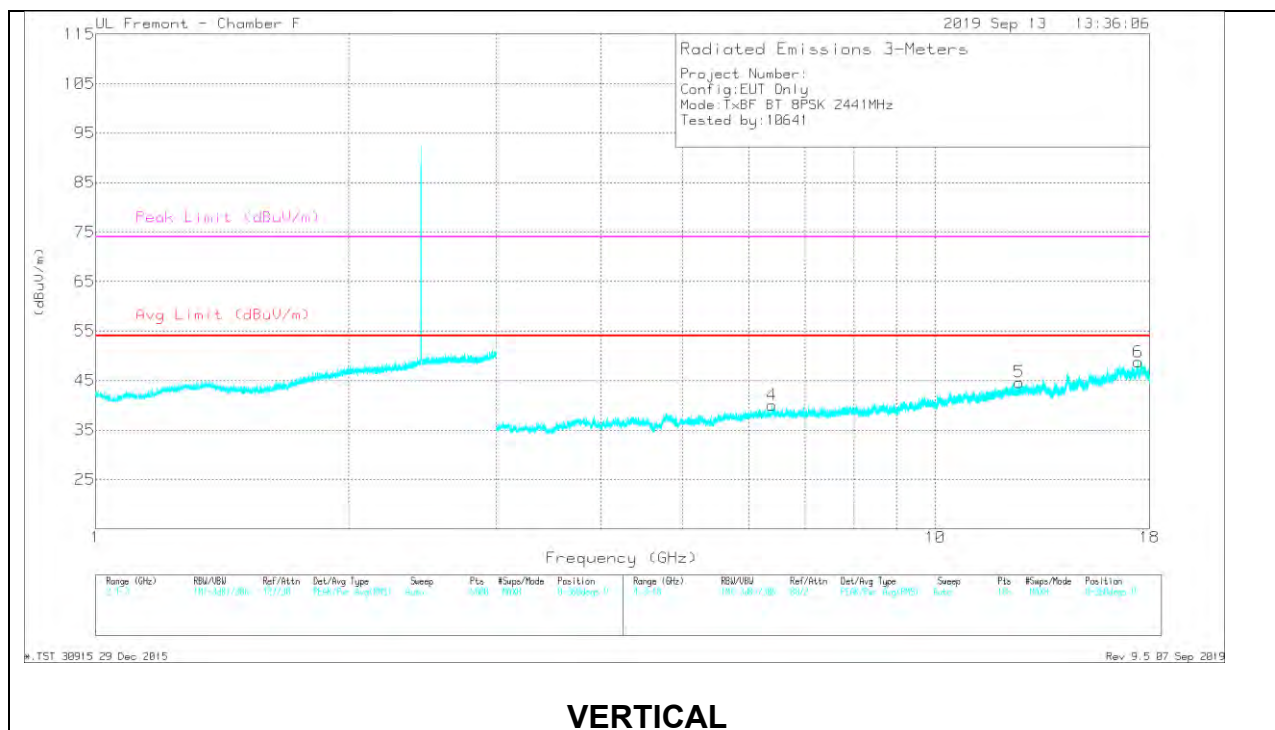
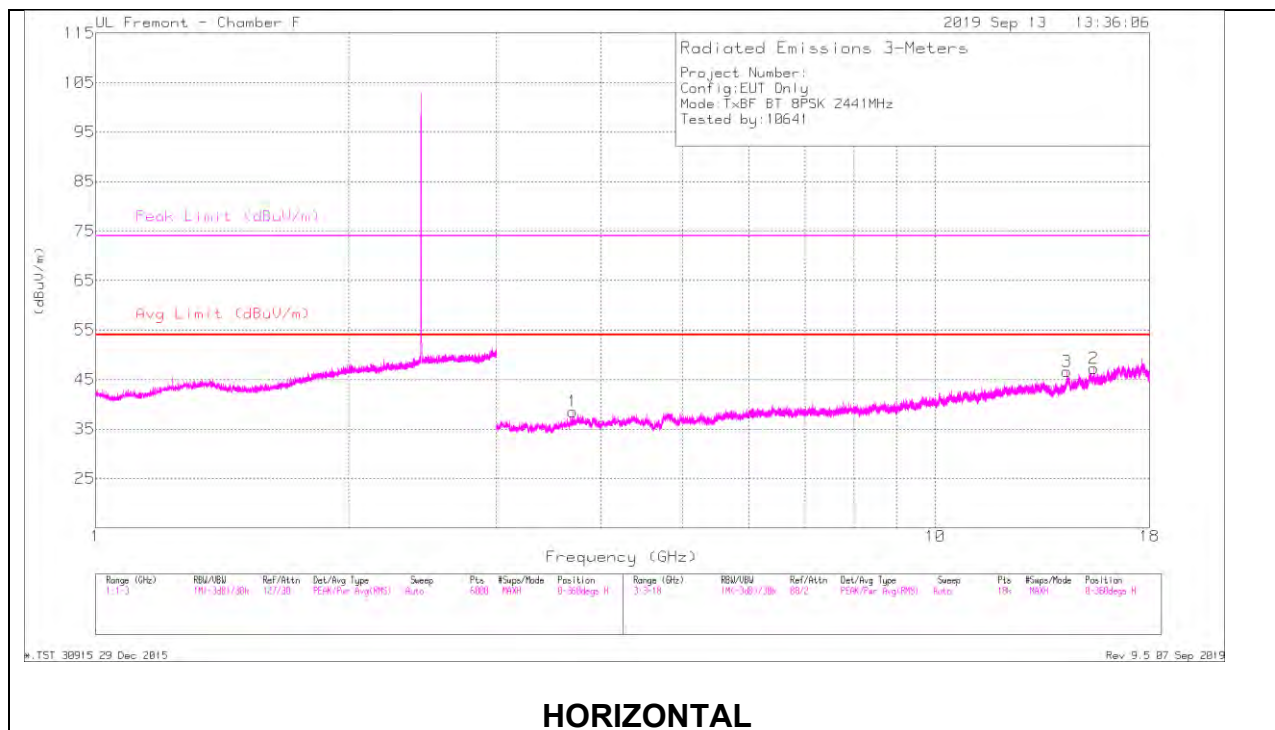
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

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MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/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	* 3.70101	53.33	PKFH	33	-43.5	42.83	-	-	74	-31.17	328	121	H
	* 3.70367	41.15	VA1T	33	-43.6	30.55	54	-23.45	-	-	328	121	H
2	* 15.44912	51.41	PKFH	40.4	-38	53.81	-	-	74	-20.19	313	137	H
	* 15.45256	37.9	VA1T	40.4	-38.1	40.2	54	-13.8	-	-	313	137	H
3	14.35879	49.21	PKFH	39.1	-36.7	51.61	-	-	-	-	234	167	H
5	* 12.59272	49.69	PKFH	39.1	-39.3	49.49	-	-	74	-24.51	244	154	V
	* 12.5952	37.62	VA1T	39.2	-39.2	37.62	54	-16.38	-	-	244	154	V
4	6.39263	50.66	PKFH	35.7	-40.8	45.56	-	-	74	-28.44	198	185	V
6	17.44978	48.98	PKFH	41.5	-36.5	53.98	-	-	74	-20.02	231	164	V

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

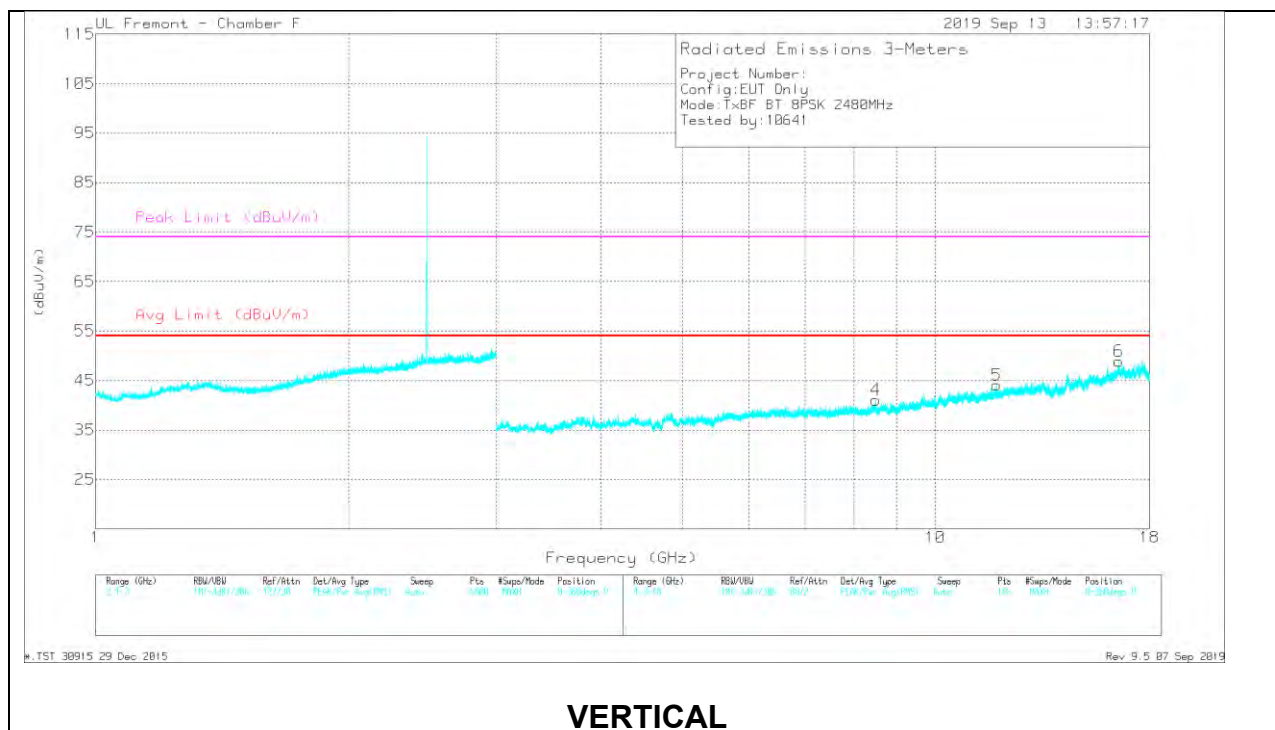
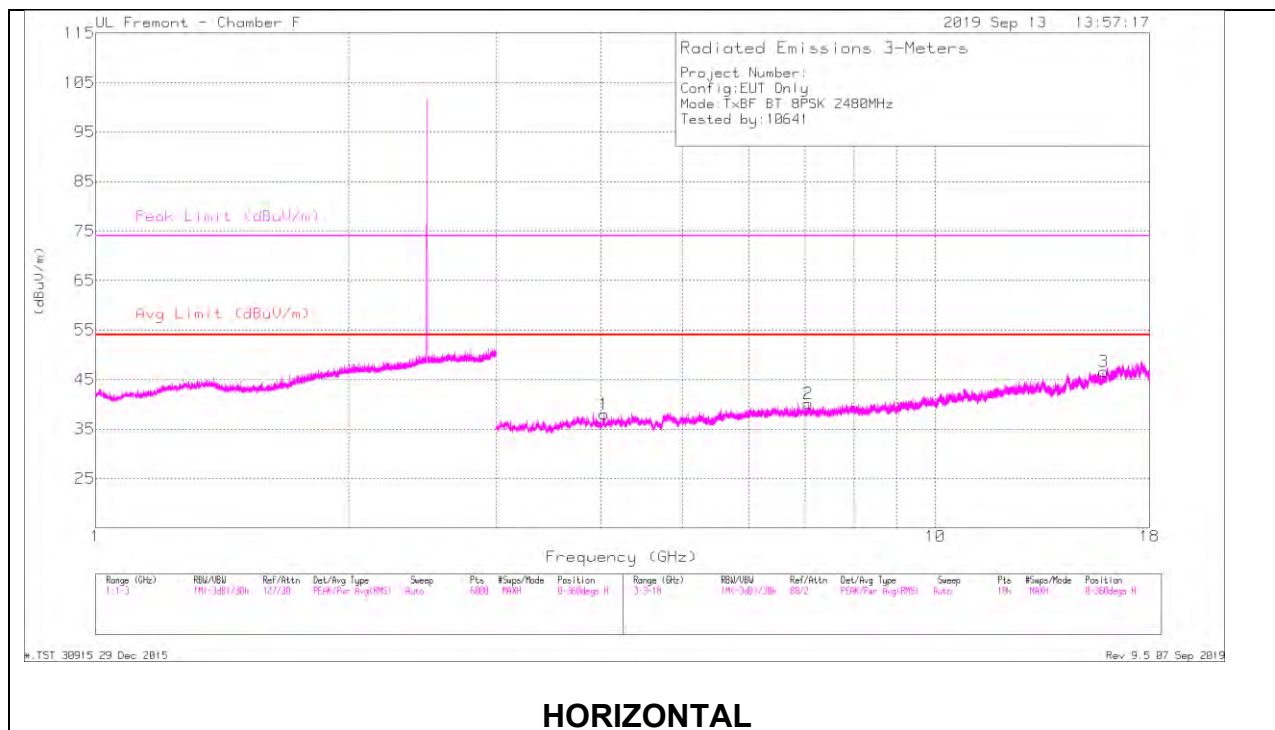
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	* 4.03101	52.19	PKFH	33.7	-43.6	42.29	-	-	74	-31.71	324	120	H
	* 4.03088	40.91	VA1T	33.7	-43.6	31.01	54	-22.99	-	-	324	120	H
3	* 15.86544	49.28	PKFH	40.4	-37.6	52.08	-	-	74	-21.92	284	152	H
	* 15.86504	37	VA1T	40.4	-37.6	39.8	54	-14.2	-	-	284	152	H
2	* 7.05862	50.69	PKFH	35.6	-40.9	45.39	-	-	74	-28.61	229	175	H
4	* 8.49599	48.73	PKFH	35.9	-39.2	45.43	-	-	74	-28.57	299	139	V
	* 8.49414	36.95	VA1T	35.9	-39.2	33.65	54	-20.35	-	-	299	139	V
5	* 11.83316	48.27	PKFH	38.6	-38.4	48.47	-	-	74	-25.53	263	159	V
	* 11.83386	36.88	VA1T	38.6	-38.3	37.18	54	-16.82	-	-	263	159	V
6	16.55707	49.56	PKFH	41.6	-37.4	53.76	-	-	74	-20.24	210	191	V

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

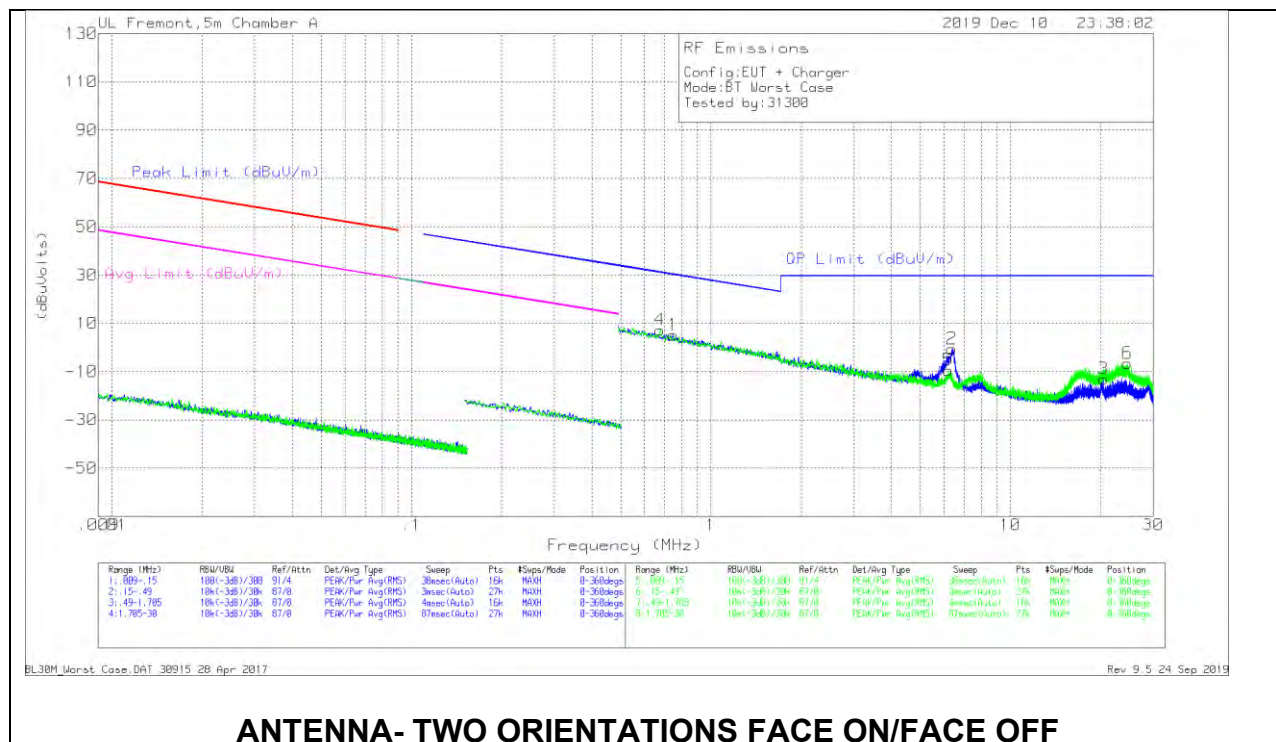
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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Rev 9.5 07 Sep 2019

9.2. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF

Below 30MHz Data

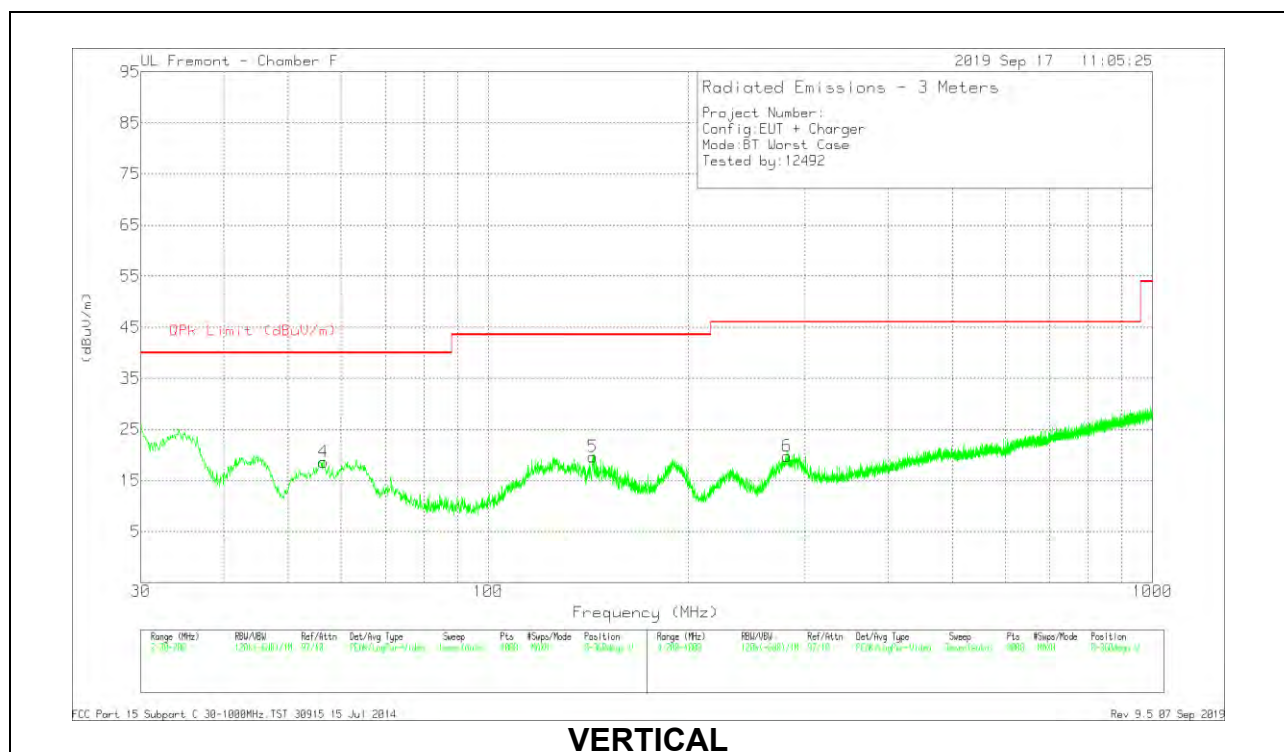
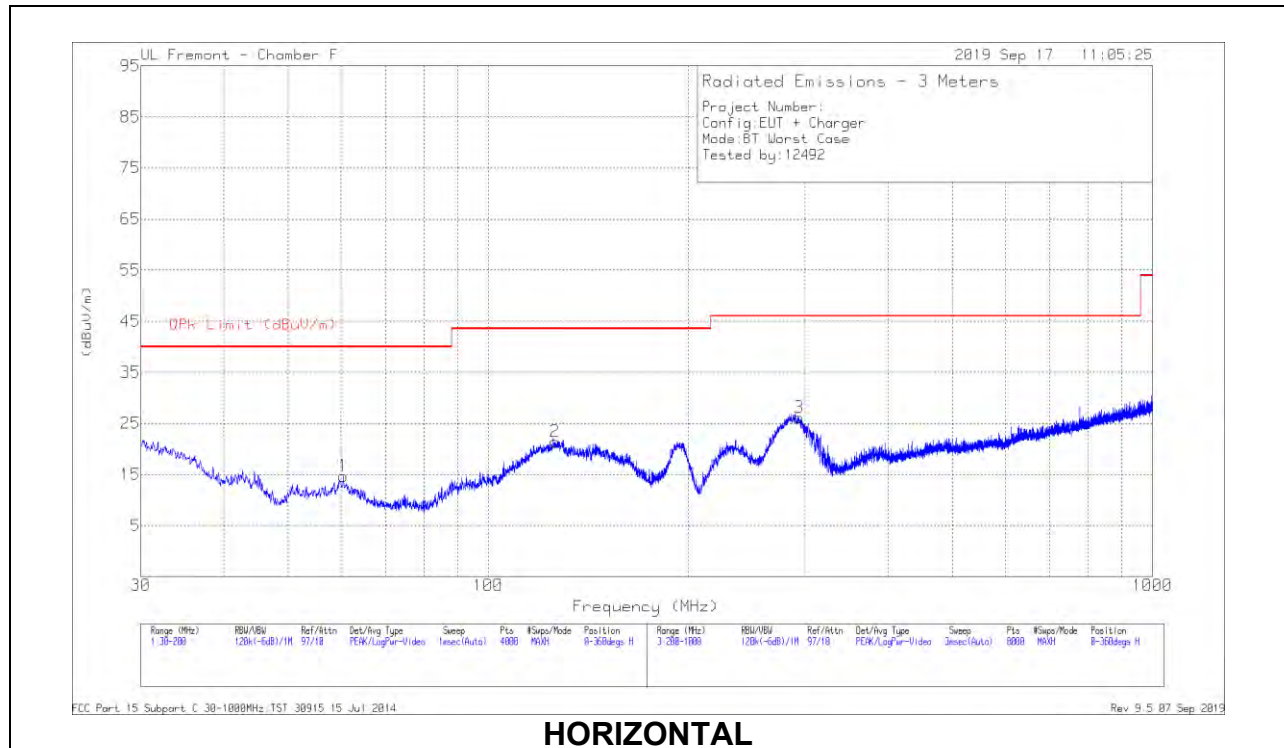
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 30m	Corrected Reading (dBuV/s)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.6765	36.4	Pk	10.8	.1	-40	7.3	31.01	-23.71	0-360
1	.74646	34.26	Pk	10.8	.1	-40	5.16	30.15	-24.99	0-360
5	6.21507	19.7	Pk	10.6	.3	-40	-9.4	29.5	-38.9	0-360
2	6.37489	28.43	Pk	10.6	.4	-40	-5.7	29.5	-30.07	0-360
3	20.46525	16.66	Pk	9.7	.6	-40	-13.04	29.5	-42.54	0-360
6	24.58913	23.52	Pk	9.2	.7	-40	-6.58	29.5	-36.08	0-360

Pk - Peak detector

BL30M_Worst Case.DAT 30915 28 Apr 2017
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9.3. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

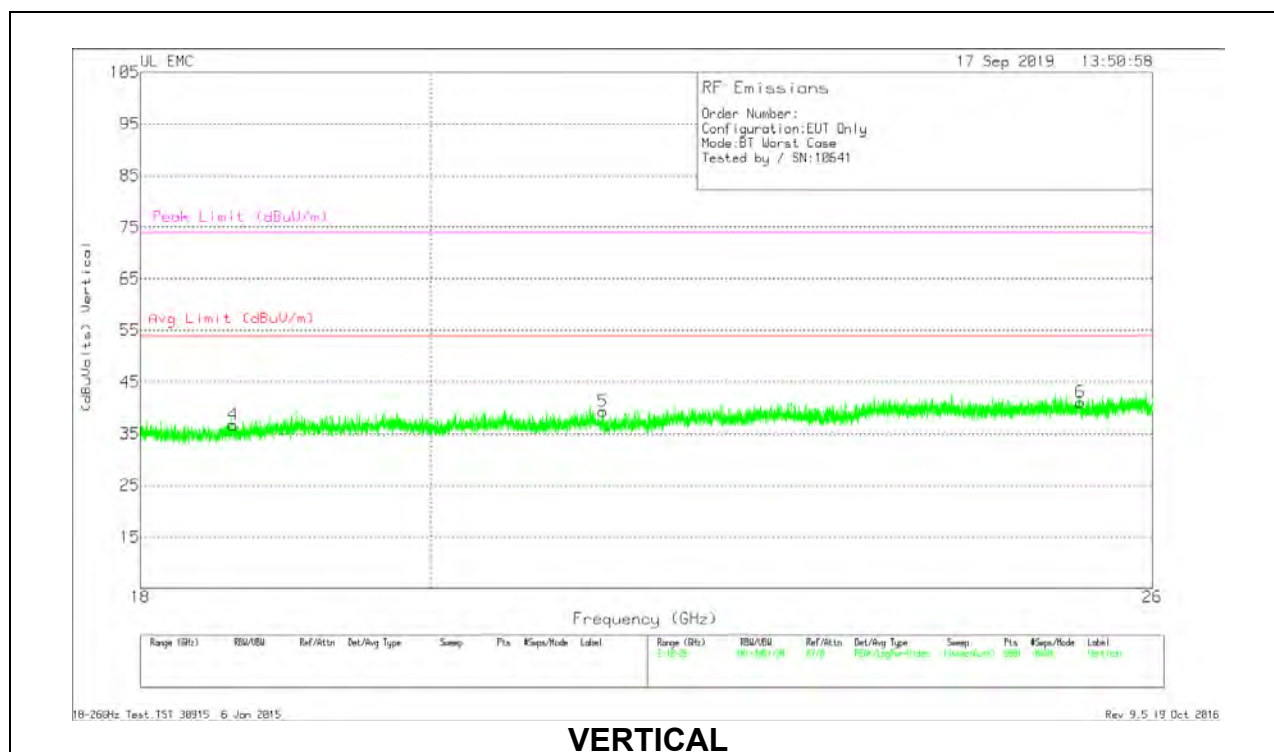
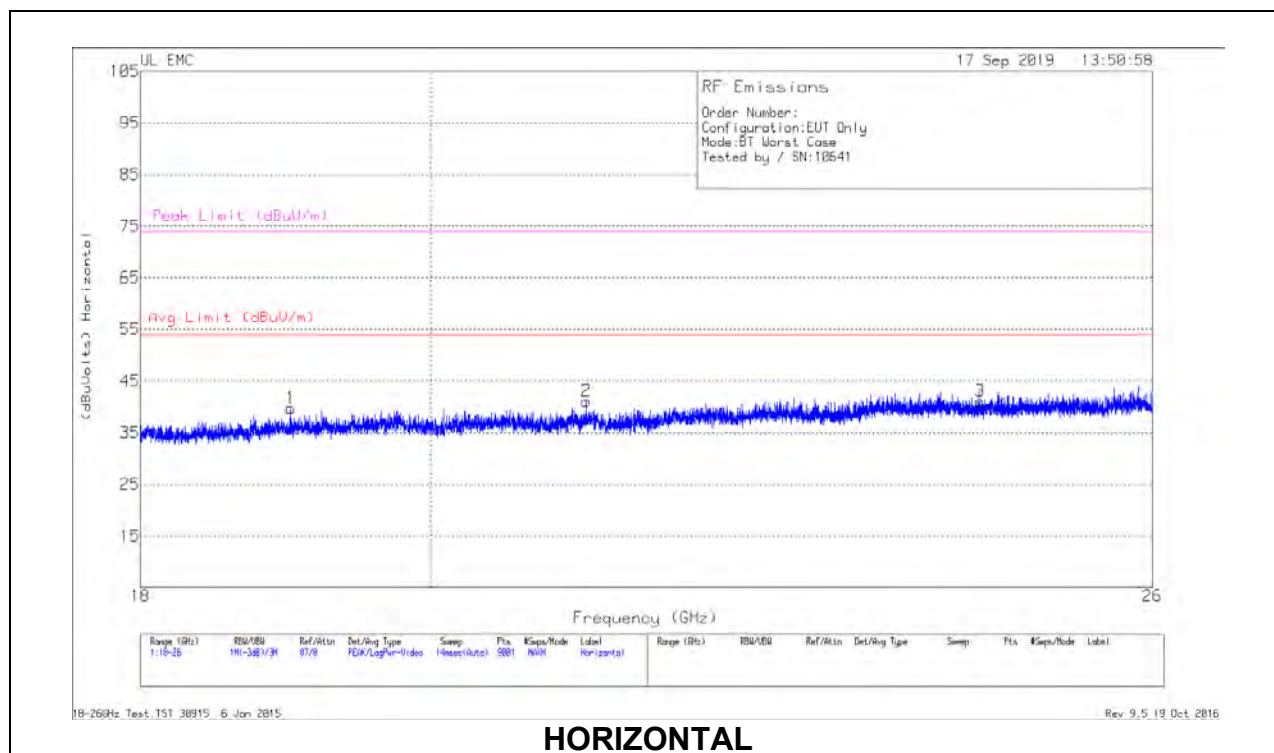


Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.5229	34.83	Pk	11.5	-31.6	14.73	40	-25.27	0-360	399	H
2	* 126.1599	34.61	Pk	17.8	-31	21.41	43.52	-22.11	0-360	199	H
4	56.4844	39.02	Pk	11.2	-31.6	18.62	40	-21.38	0-360	100	V
5	143.6319	33.92	Pk	16.6	-30.9	19.62	43.52	-23.9	0-360	100	V
3	293.6122	38.72	Pk	17.3	-29.9	26.12	46.02	-19.9	0-360	99	H
6	* 281.4606	32.34	Pk	17.3	-29.9	19.74	46.02	-26.28	0-360	99	V

9.4. WORST CASE 18-26 GHZ

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 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	19.011	38.42	Pk	32.6	-21.8	-9.5	39.72	54	-14.28	74	-34.28
2	21.164	38.74	Pk	33	-21.1	-9.5	41.14	54	-12.86	74	-32.86
3	24.423	35.89	Pk	34.3	-19.6	-9.5	41.09	54	-12.91	74	-32.91
4	18.618	35.63	Pk	32.4	-21.8	-9.5	36.73	54	-17.27	74	-37.27
5	21.293	37.24	Pk	33	-21.4	-9.5	39.34	54	-14.66	74	-34.66
6	25.326	35.92	Pk	34.5	-19.8	-9.5	41.12	54	-12.88	74	-32.88

10. 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.

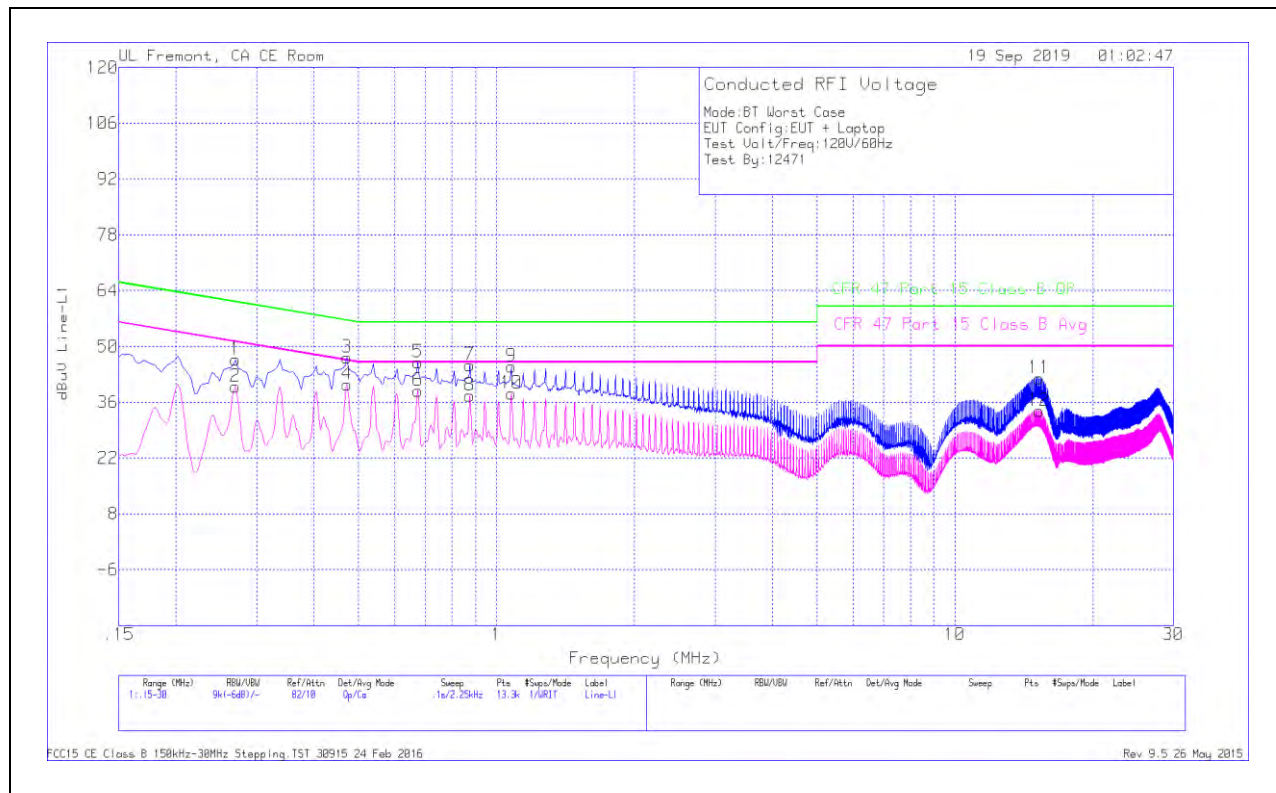
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

10.1.1. AC Power Line Host

LINE 1 RESULTS



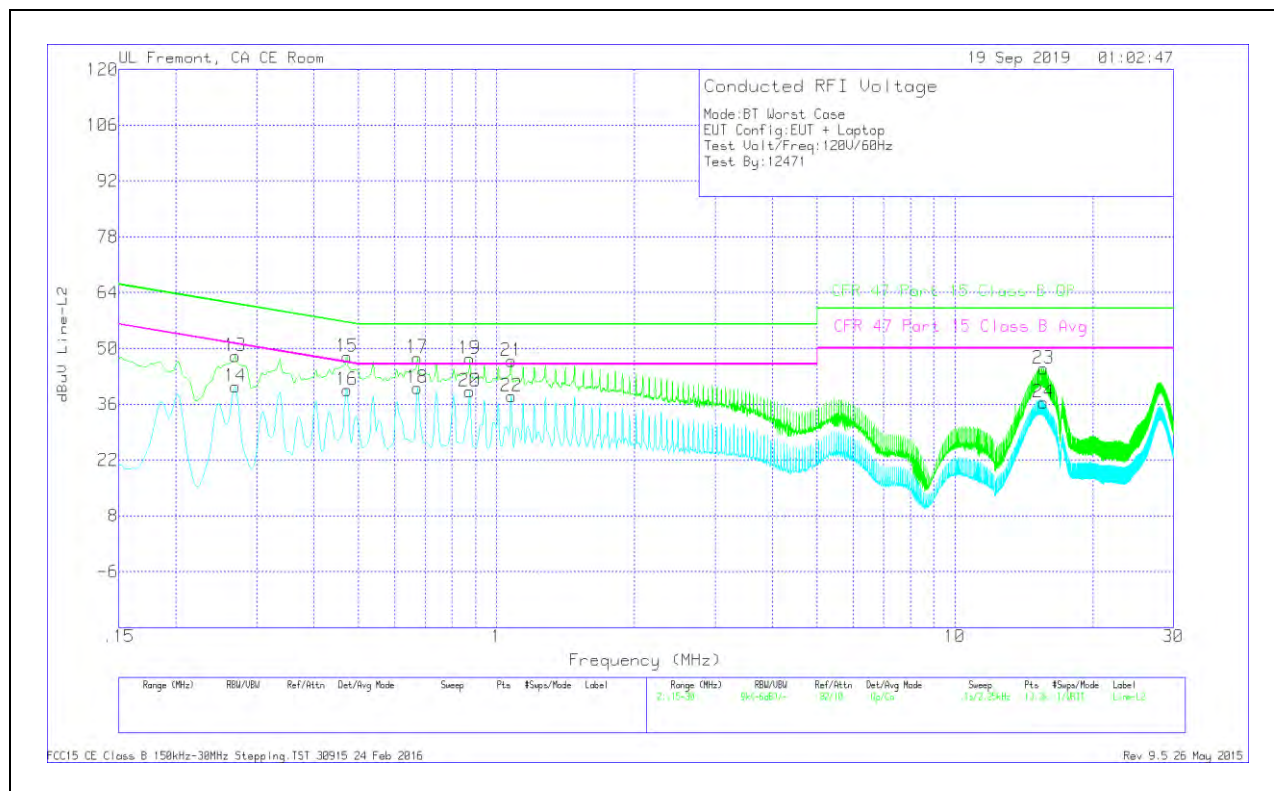
Range 1: Line-L1 .15 - 30MHz

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	.26925	36.64	Qp	0	0	10.1	46.74	61.14	-14.4	-	-
2	.26925	29.82	Ca	0	0	10.1	39.92	-	-	51.14	-11.22
3	.47175	37.11	Qp	0	0	10.1	47.21	56.48	-9.27	-	-
4	.47175	30.26	Ca	0	0	10.1	40.36	-	-	46.48	-6.12
5	.67425	35.95	Qp	0	0	10.1	46.05	56	-9.95	-	-
6	.67425	28.82	Ca	0	0	10.1	38.92	-	-	46	-7.08
7	.8745	35.23	Qp	0	0	10.1	45.33	56	-10.67	-	-
8	.8745	27.52	Ca	0	0	10.1	37.62	-	-	46	-8.38
9	1.077	34.75	Qp	0	.1	10.1	44.95	56	-11.05	-	-
10	1.077	27.96	Ca	0	.1	10.1	38.16	-	-	46	-7.84
11	15.2835	31.41	Qp	.1	.3	10.2	42.01	60	-17.99	-	-
12	15.2835	23.29	Ca	.1	.3	10.2	33.89	-	-	50	-16.11

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

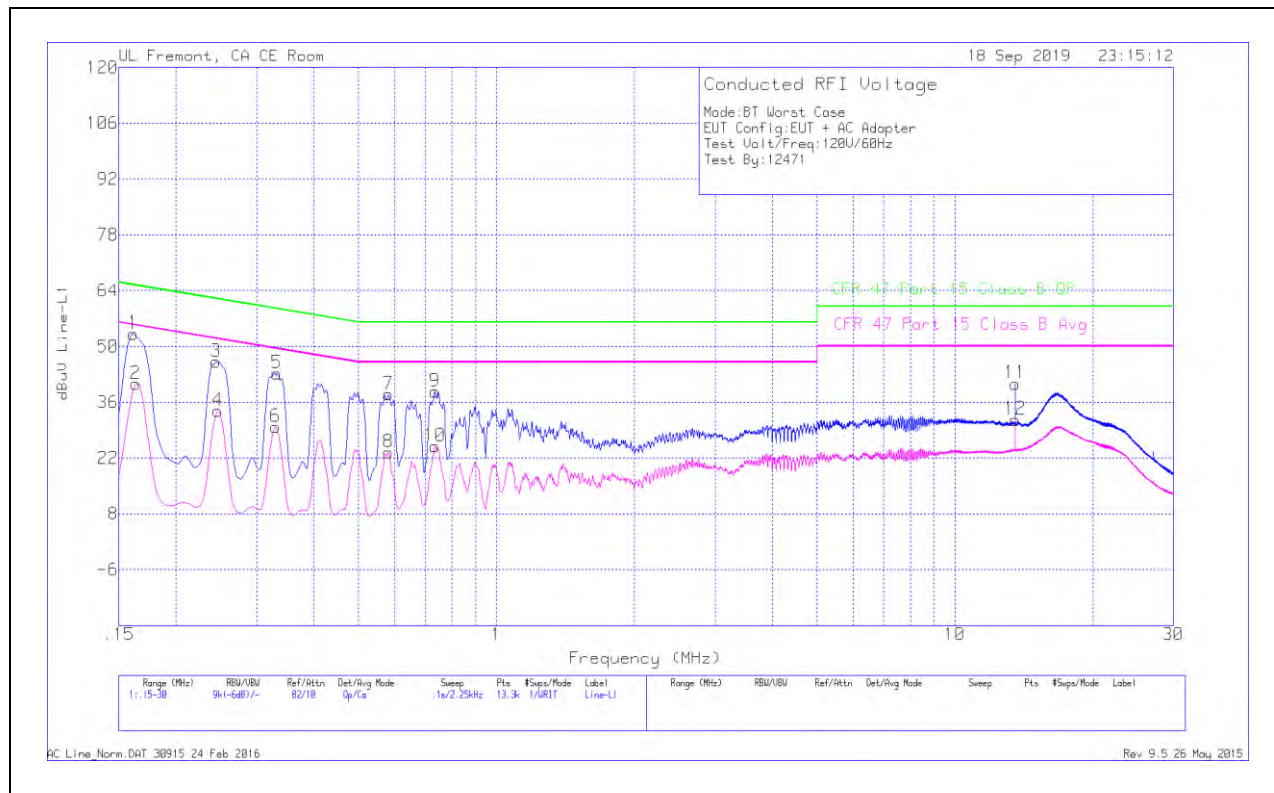
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.26925	38.01	Qp	0	0	10.1	48.11	61.14	-13.03	-	-
14	.26925	30.31	Ca	0	0	10.1	40.41	-	-	51.14	-10.73
15	.47175	37.81	Qp	0	0	10.1	47.91	56.48	-8.57	-	-
16	.47175	29.47	Ca	0	0	10.1	39.57	-	-	46.48	-6.91
17	.672	37.55	Qp	0	0	10.1	47.65	56	-8.35	-	-
18	.672	30.03	Ca	0	0	10.1	40.13	-	-	46	-5.87
19	.8745	37.33	Qp	0	0	10.1	47.43	56	-8.57	-	-
20	.8745	29.16	Ca	0	0	10.1	39.26	-	-	46	-6.74
21	1.077	36.67	Qp	0	.1	10.1	46.87	56	-9.13	-	-
22	1.077	27.8	Ca	0	.1	10.1	38	-	-	46	-8
23	15.6052	34.2	Qp	.1	.3	10.3	44.9	60	-15.1	-	-
24	15.6052	25.78	Ca	.1	.3	10.3	36.48	-	-	50	-13.52

Qp - Quasi-Peak detector

Ca - CISPR average detection

10.1.2. AC Power Line Norm

LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz

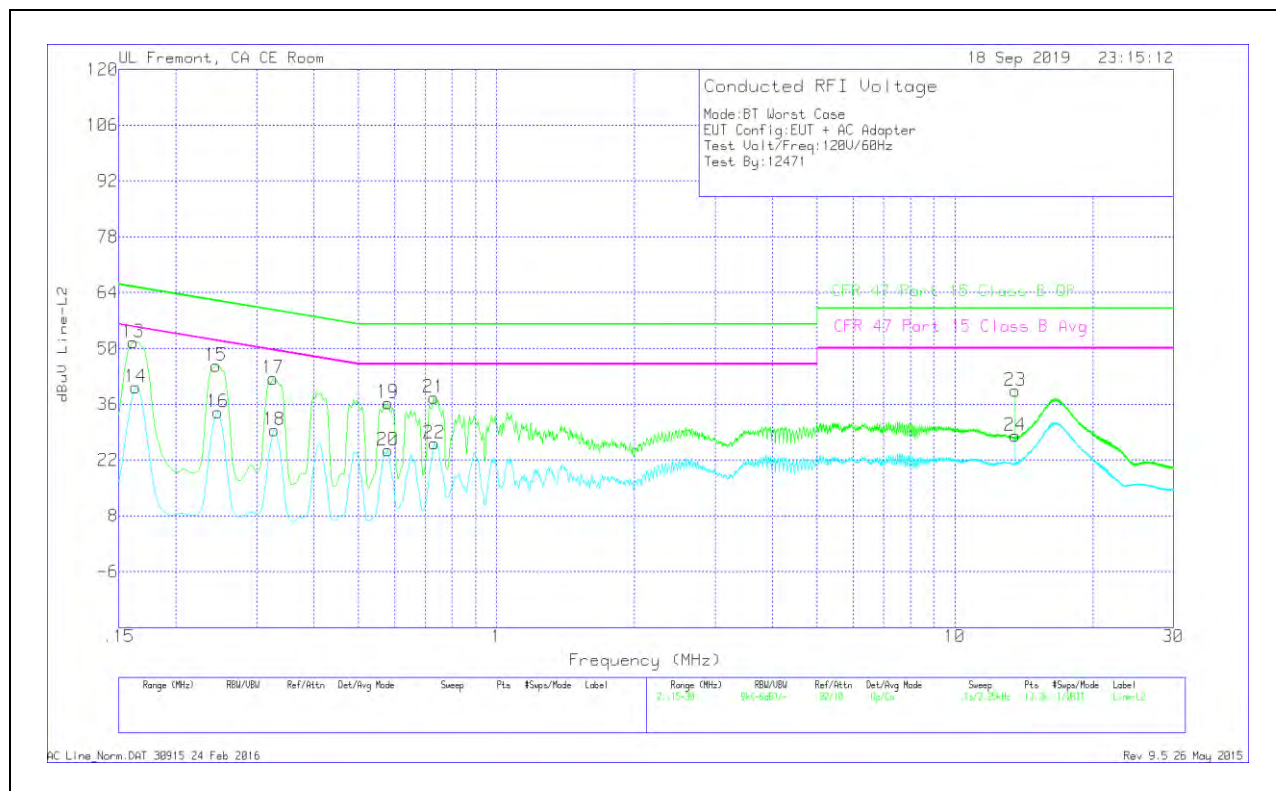
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	43.01	Qp	.1	0	10.1	53.21	65.4	-12.19	-	-
2	.1635	30.47	Ca	.1	0	10.1	40.67	-	-	55.28	-14.61
3	.2445	36.04	Qp	0	0	10.1	46.14	61.94	-15.8	-	-
4	.24675	23.71	Ca	0	0	10.1	33.81	-	-	51.87	-18.06
5	.33225	33.16	Qp	0	0	10.1	43.26	59.39	-16.13	-	-
6	.33	19.68	Ca	0	0	10.1	29.78	-	-	49.45	-19.67
7	.582	27.95	Qp	0	0	10.1	38.05	56	-17.95	-	-
8	.582	13.23	Ca	0	0	10.1	23.33	-	-	46	-22.67
9	.735	28.53	Qp	0	0	10.1	38.63	56	-17.37	-	-
10	.735	14.88	Ca	0	0	10.1	24.98	-	-	46	-21.02
*11	13.56	30.2	Qp	.1	.2	10.2	40.7	60	-19.3	-	-
*12	13.56	21.16	Ca	.1	.2	10.2	31.66	-	-	50	-18.34

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device

LINE 2 RESULTS



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	.16125	41.39	Qp	.1	0	10.1	51.59	65.4	-13.81	-	-
14	.1635	30.04	Ca	.1	0	10.1	40.24	-	-	55.28	-15.04
15	.2445	35.5	Qp	0	0	10.1	45.6	61.94	-16.34	-	-
16	.24675	23.84	Ca	0	0	10.1	33.94	-	-	51.87	-17.93
17	.3255	32.34	Qp	0	0	10.1	42.44	59.57	-17.13	-	-
18	.32775	19.39	Ca	0	0	10.1	29.49	-	-	49.51	-20.02
19	.57975	26.25	Qp	0	0	10.1	36.35	56	-19.65	-	-
20	.57975	14.33	Ca	0	0	10.1	24.43	-	-	46	-21.57
21	.7305	27.56	Qp	0	0	10.1	37.66	56	-18.34	-	-
22	.73275	16.1	Ca	0	0	10.1	26.2	-	-	46	-19.8
*23	13.56	28.88	Qp	.1	.2	10.2	39.38	60	-20.62	-	-
*24	13.56	17.55	Ca	.1	.2	10.2	28.05	-	-	50	-21.95

Qp - Quasi-Peak detector

Ca - CISPR average detection

*Indicates UL RFID signal. Not from device

11. SETUP PHOTOS

Please refer to 13018973-EP1V1 for setup photos

END OF TEST REPORT