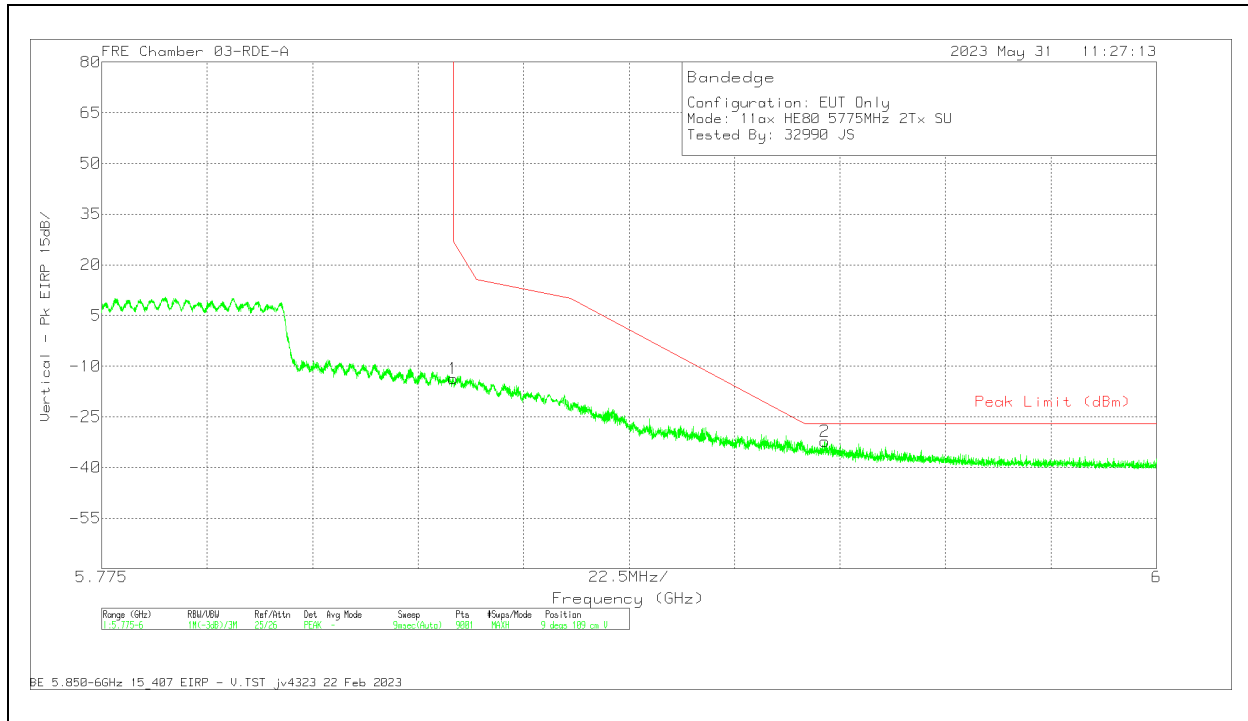


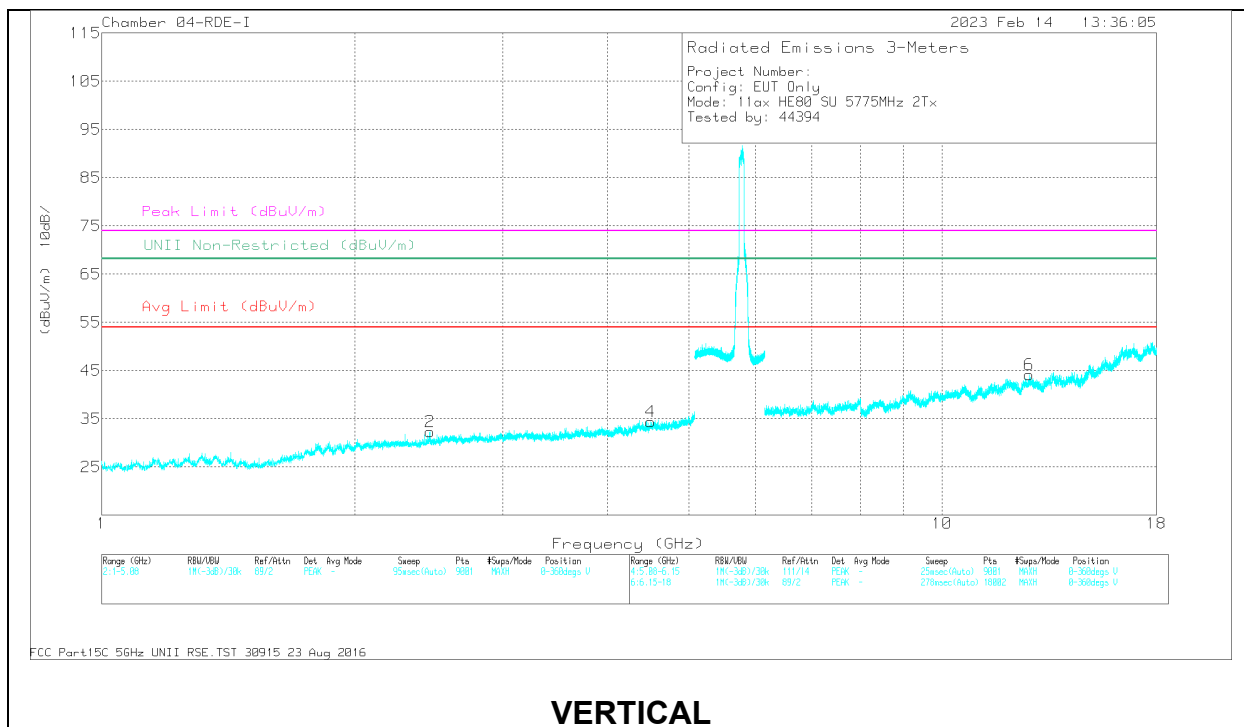
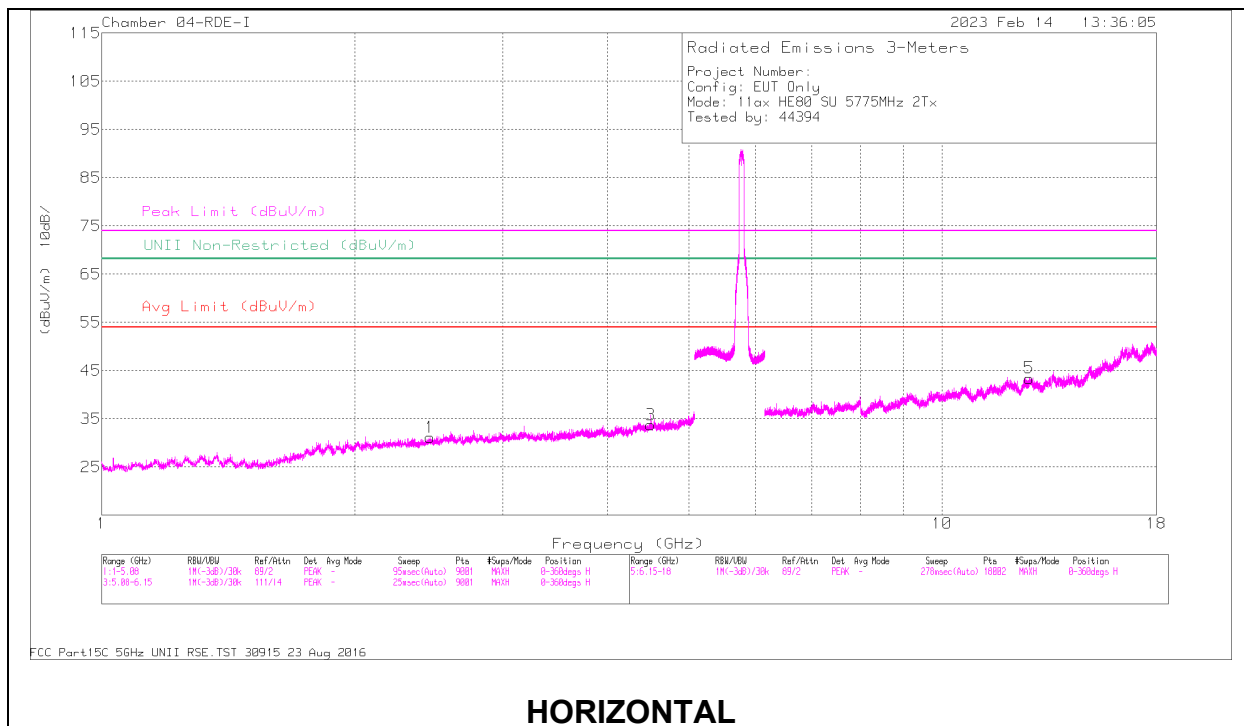
VERTICAL RESULT

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	230299 ACF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-23.2	Pk	35.2	11.8	0	-37.49	-13.69	27	-40.69	9	109	V
2	5.929225	-42.13	Pk	35.3	11.8	0	-37.3	-32.33	-27	-5.33	9	109	V

Pk - Peak detector

1.2.59. 5.8GHz, 11ax HE80 SU2TX HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB) - 3mH	Amp/C bl/Filtr (dB)	DCCF (dB)	Correct ed Reading (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non-Restrict ed (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.459318	42.17	PK-U	31.9	-31.1	0	42.97	-	-	-	-	68.2	-25.23	327	207	H
3	* 4.603146	37.29	PK-U	34.3	-28.4	0	43.19	-	-	74	-30.81	-	-	19	156	H
2	2.458824	42.99	PK-U	31.9	-31.1	0	43.79	-	-	-	-	68.2	-24.41	289	116	V
	2.45579	28.03	ADR	31.9	-31.2	.24	28.97	-	-	-	-	-	-	289	116	V
4	* 4.502966	37.46	PK-U	34.2	-28.1	0	43.56	-	-	74	-30.44	-	-	147	213	V
	* 4.501437	25.9	ADR	34.2	-28.1	.24	32.24	54	-21.76	-	-	-	-	147	213	V
5	* 12.693681	32.15	PK-U	39	-18.8	0	52.35	-	-	74	-21.65	-	-	81	306	H
	* 12.692595	20.65	ADR	39	-18.8	.24	41.09	54	-12.91	-	-	-	-	81	306	H
6	* 11.506016	31.59	PK-U	38	-18.8	0	50.79	-	-	74	-23.21	-	-	176	189	V
	* 11.557594	20.05	ADR	38.1	-18.2	.24	40.19	54	-13.81	-	-	-	-	176	189	V

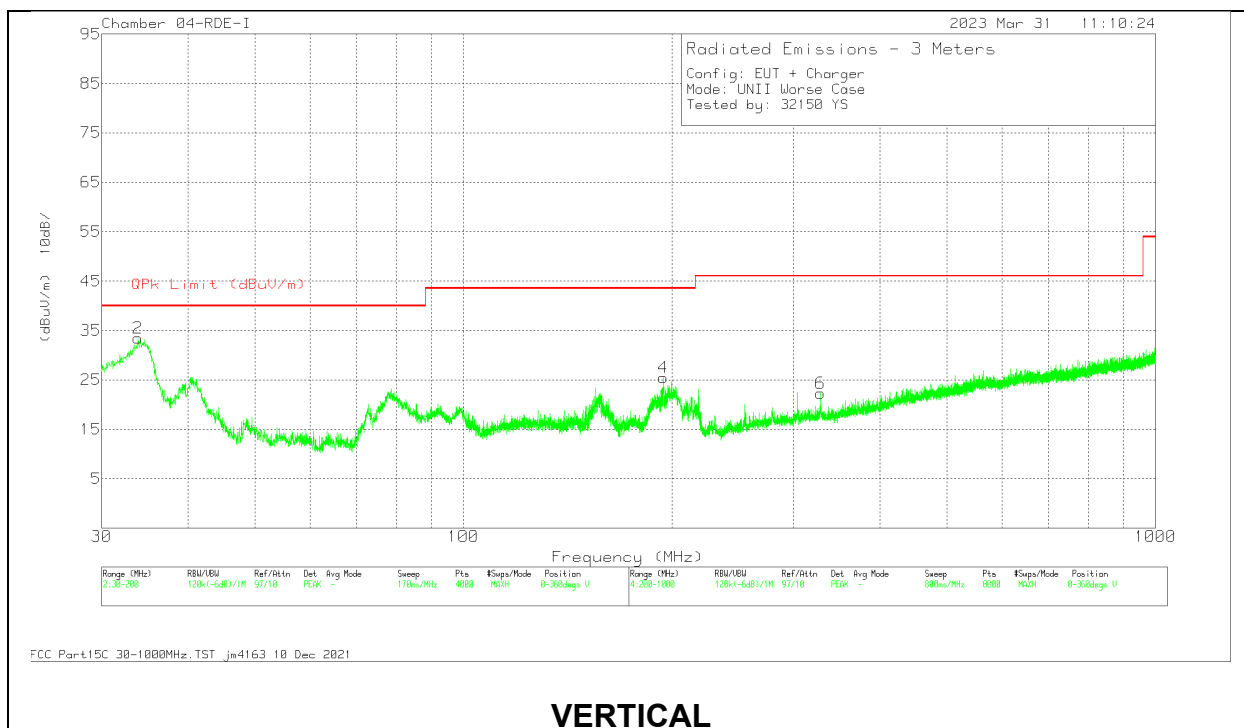
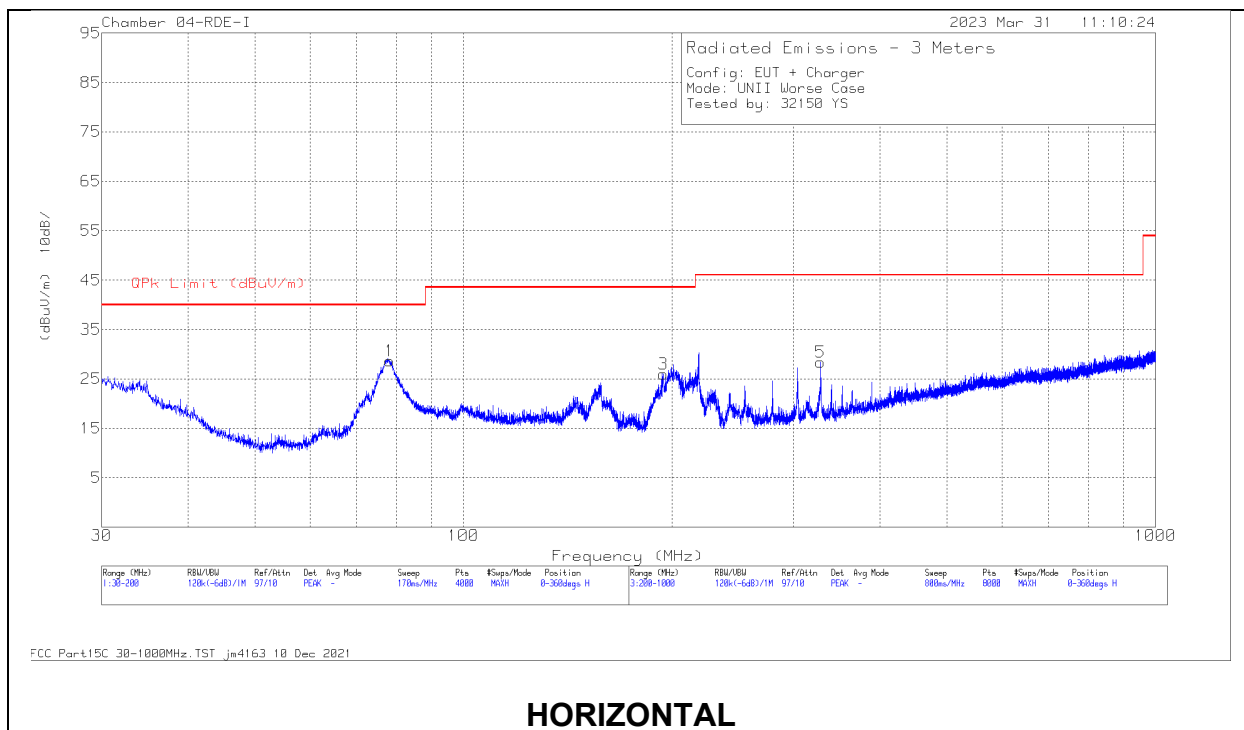
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

1.3. WORST CASE BELOW 1 GHz

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



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80714 ACF (dB) - 10mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	78.25	45.11	Pk	14.3	-30.8	28.61	40	-11.39	0-360	199	H
3	194.305	38.08	Pk	17.9	-30	25.98	43.52	-17.54	0-360	100	H
2	33.8685	39.54	Pk	25	-31.1	33.44	40	-6.56	0-360	100	V
4	194.475	37.56	Pk	17.9	-30	25.46	43.52	-18.06	0-360	100	V
5	* 328.117	38.19	Pk	19.7	-29.5	28.39	46.02	-17.63	0-360	100	H
6	* 328.117	32.15	Pk	19.7	-29.5	22.35	46.02	-23.67	0-360	101	V

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	80714 ACF (dB) - 10mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
77.9865	43.63	Qp	14.3	-30.8	27.13	40	-12.87	175	254	H
194.242	37.66	Qp	17.9	-30	25.56	43.52	-17.96	122	120	H
34.0957	35.35	Qp	24.8	-31.1	29.05	40	-10.95	324	108	V
194.18	35.44	Qp	17.9	-30	23.34	43.52	-20.18	153	118	V
* 327.77	36.75	Qp	19.7	-29.5	26.95	46.02	-19.07	298	109	H
* 327.679	28.08	Qp	19.7	-29.5	18.28	46.02	-27.74	188	260	V

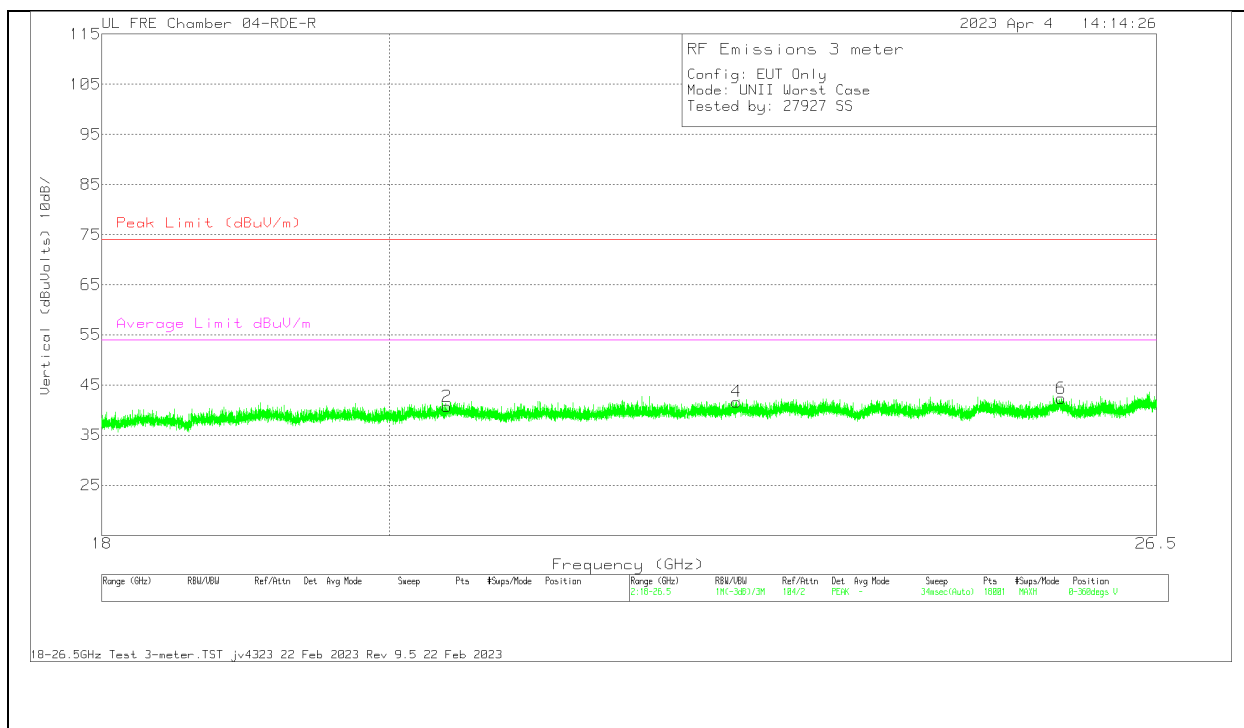
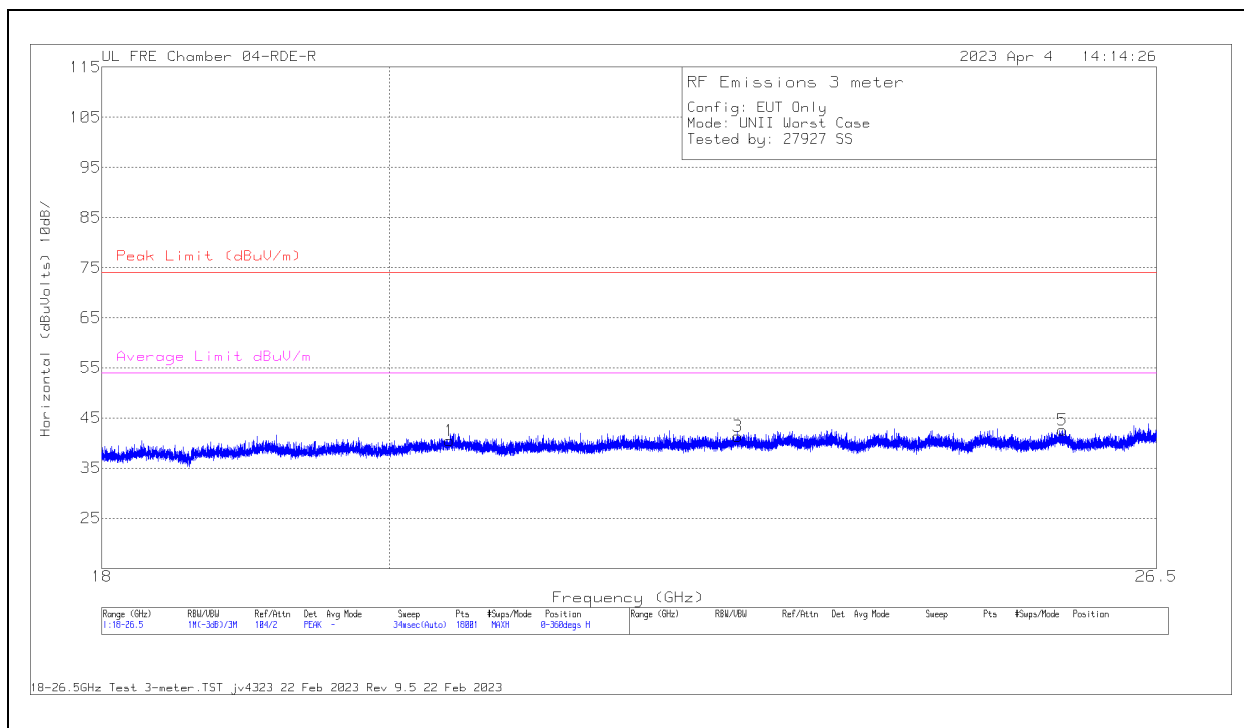
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK--Peak detector

Qp - Quasi-Peak detector

1.4. WORST CASE 18-26 GHz

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



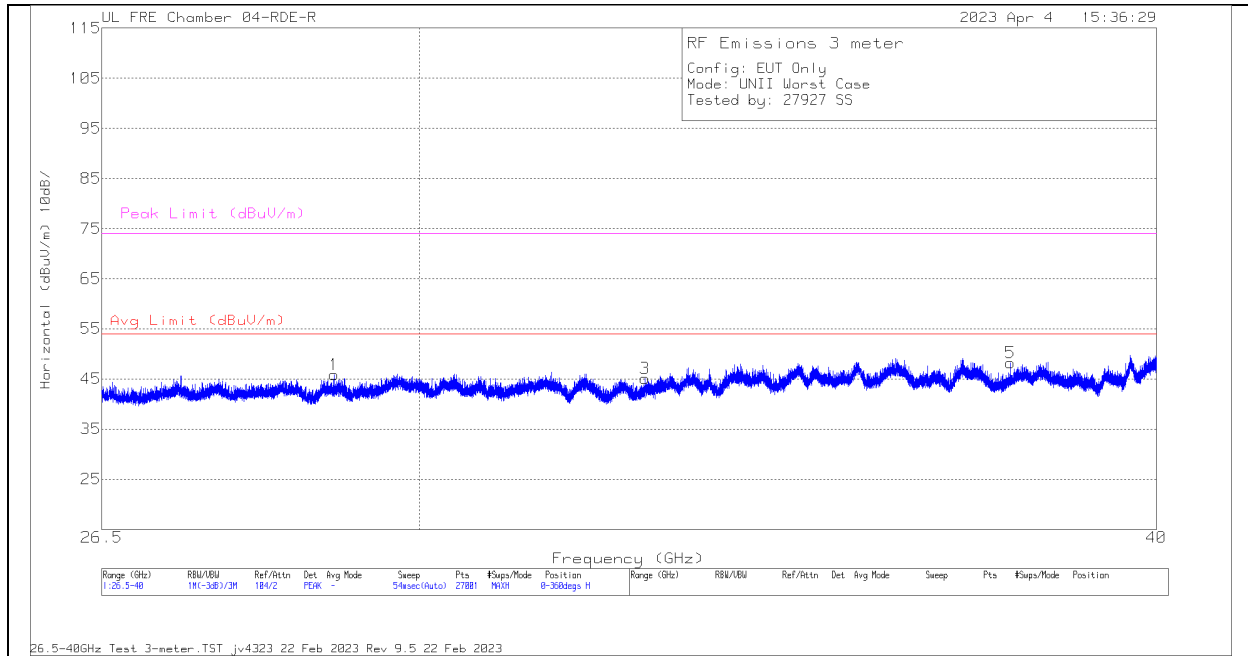
18 – 26GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	17235 3 ACF (dB) - 3mH	17158 3 Amp Assembly (dB)	Cables (dB)	Corrected Reading (dBuV olts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	20.42911	55.17	Pk	33.4	-63.9	16.1	40.77	74	-33.23	54	-13.23	0-360	99	V
1	20.45036	54.82	Pk	33.4	-63.9	16.1	40.42	74	-33.58	54	-13.58	0-360	100	H
4	22.715609	56.66	Pk	33.8	-65.7	16.9	41.66	74	-32.34	54	-12.34	0-360	99	V
3	22.726942	56.39	Pk	33.8	-65.7	16.9	41.39	74	-32.61	54	-12.61	0-360	100	H
6	25.58908	53.2	Pk	34.7	-63.6	18	42.3	74	-31.7	54	-11.70	0-360	99	V
5	25.602302	53.54	Pk	34.7	-63.6	18	42.64	74	-31.36	54	-11.36	0-360	100	H

Pk - Peak detector

1.5. WORST CASE 26-40 GHz

SPURIOUS EMISSIONS 26-40 GHz (WORST-CASE CONFIGURATION)



26 – 40GHz Data

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172367 ACF (dB) - 3mH	172346 Amp Assembly (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	29.014	56.33	Pk	36.4	-66	19.1	45.83	54	-8.17	74	-28.17	0-360	100	H
2	29.022	54.53	Pk	36.4	-66	19.2	44.13	54	-9.87	74	-29.87	0-360	200	V
3	32.7645	56.75	Pk	37.3	-69.5	20.5	45.05	54	-8.95	74	-28.95	0-360	100	H
4	33.143	58.88	Pk	37.3	-70.4	20.6	46.38	54	-7.62	74	-27.62	0-360	200	V
5	37.7825	58.39	Pk	38.4	-71	22.4	48.19	54	-5.81	74	-25.81	0-360	100	H
6	37.7965	56.48	Pk	38.3	-70.8	22.4	46.38	54	-7.62	74	-27.62	0-360	200	V

Pk - Peak detector

2. AC POWERLINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

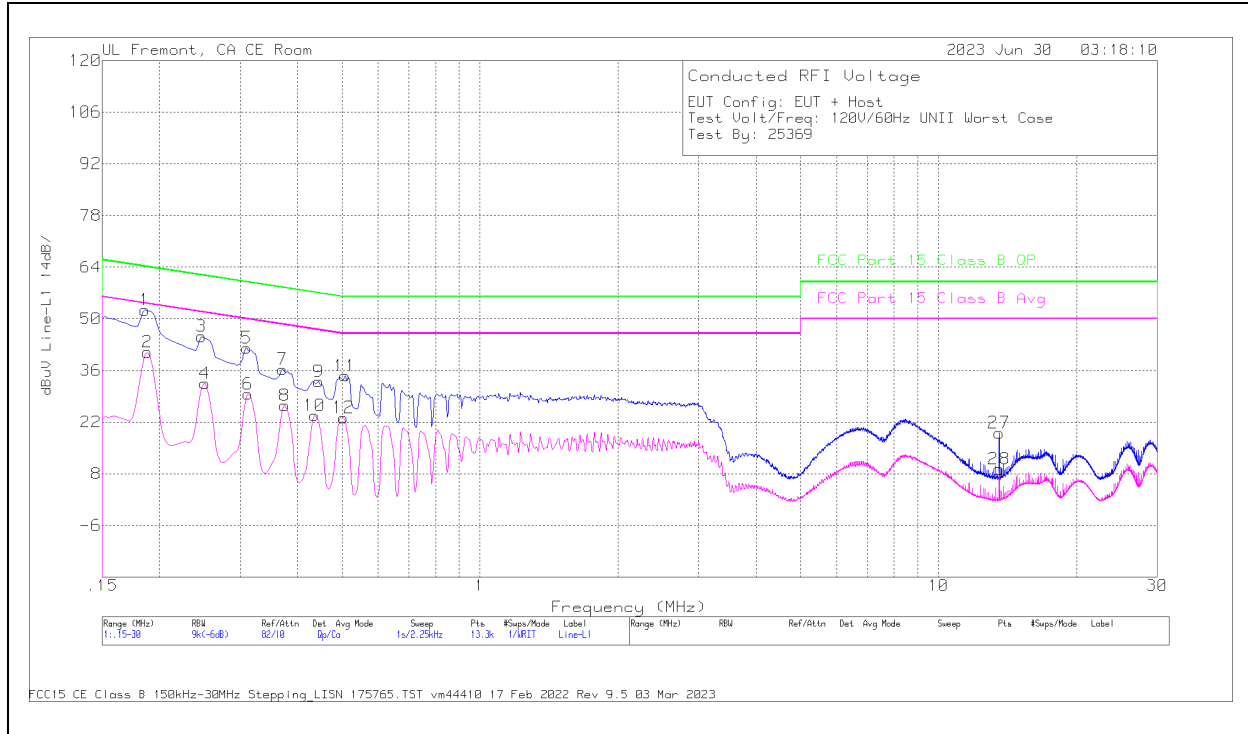
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

2.1. AC POWER LINE WITH LAPTOP

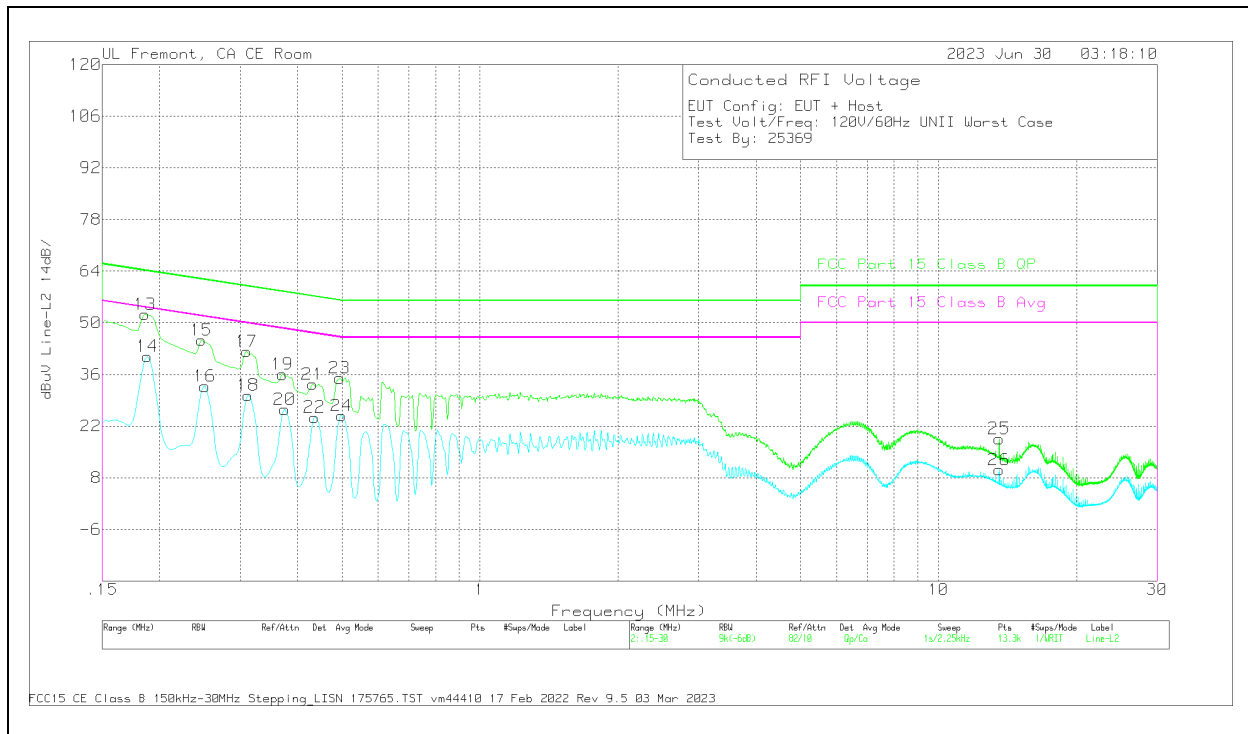
LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv (dB)	C1&C3 cable path loss (dB)	207996 Limiter with short cable (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
2	.1883	31.55	Ca	0	0	9.4	40.95	-	-	54.11	-13.16
4	.2513	23.16	Ca	0	0	9.3	32.46	-	-	51.72	-19.26
6	.312	20.3	Ca	0	0	9.3	29.6	-	-	49.92	-20.32
8	.375	17.11	Ca	0	.1	9.3	26.51	-	-	48.39	-21.88
10	.4358	14.38	Ca	0	.1	9.3	23.78	-	-	47.14	-23.36
12	.5033	13.77	Ca	0	.1	9.3	23.17	-	-	46	-22.83
28	13.56	-36	Ca	.1	.2	9.3	9.24	-	-	50	-40.76
1	.186	42.98	Qp	0	0	9.4	52.38	64.21	-11.83	-	-
3	.2468	35.91	Qp	0	0	9.3	45.21	61.87	-16.66	-	-
5	.3098	32.76	Qp	0	0	9.3	42.06	59.98	-17.92	-	-
7	.3705	26.89	Qp	0	.1	9.3	36.29	58.49	-22.2	-	-
9	.4448	23.6	Qp	0	.1	9.3	33	56.97	-23.97	-	-
11	.5078	25.11	Qp	0	.1	9.3	34.51	56	-21.49	-	-
27	13.56	9.48	Qp	.1	.2	9.3	19.08	60	-40.92	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS

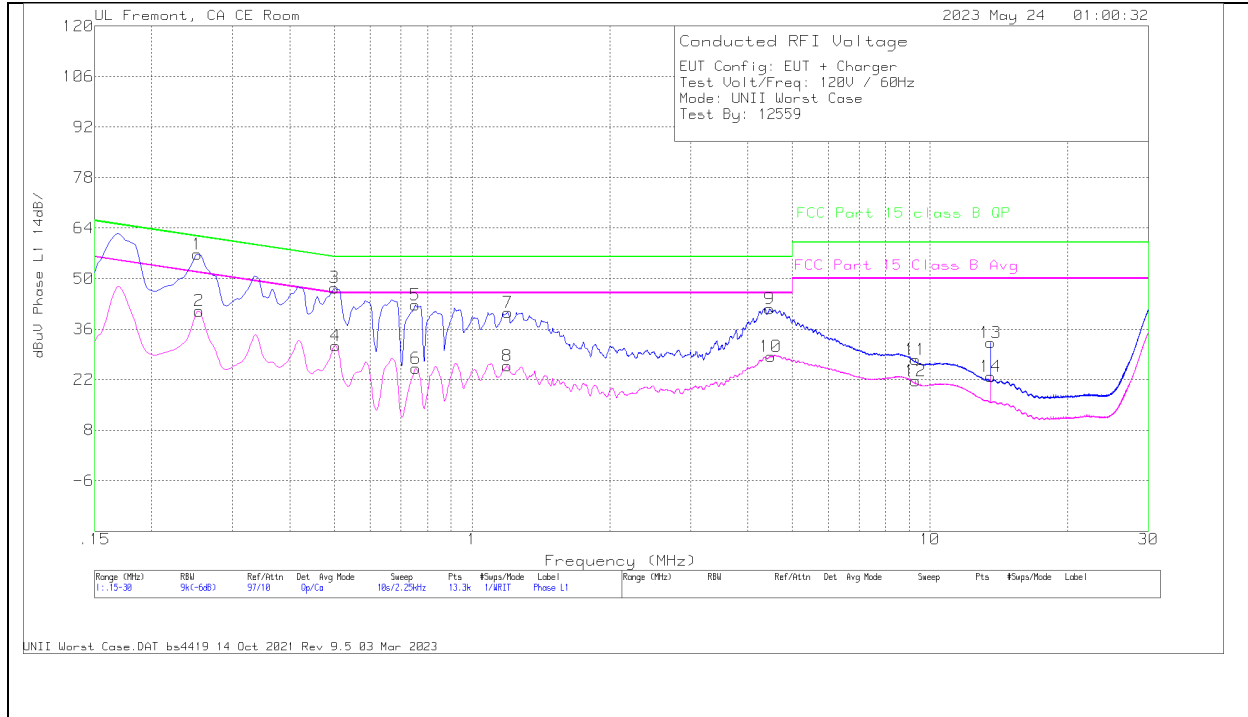
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2 LISN (dB)	C2&C3 cable path loss (dB)	207996 Limiter with short cable (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
14	.1883	31.47	Ca	0	0	9.4	40.87	-	-	54.11	-13.24
16	.2513	23.47	Ca	0	0	9.3	32.77	-	-	51.72	-18.95
18	.312	21.05	Ca	0	0	9.3	30.35	-	-	49.92	-19.57
20	.375	17.09	Ca	0	.1	9.3	26.49	-	-	48.39	-21.9
22	.4358	14.98	Ca	0	.1	9.3	24.38	-	-	47.14	-22.76
24	.4988	15.43	Ca	0	.1	9.3	24.83	-	-	46.02	-21.19
26	13.56	.52	Ca	.1	.2	9.3	10.12	-	-	50	-39.88
13	.186	42.88	Qp	0	0	9.4	52.28	64.21	-11.93	-	-
15	.2468	35.96	Qp	0	0	9.3	45.26	61.87	-16.61	-	-
17	.3098	32.88	Qp	0	0	9.3	42.18	59.98	-17.8	-	-
19	.3705	26.61	Qp	0	.1	9.3	36.01	58.49	-22.48	-	-
21	.4313	23.93	Qp	0	.1	9.3	33.33	57.23	-23.9	-	-
23	.4943	25.59	Qp	0	.1	9.3	34.99	56.1	-21.11	-	-
25	13.56	8.96	Qp	.1	.2	9.3	18.56	60	-41.44	-	-

Qp - Quasi-Peak detector

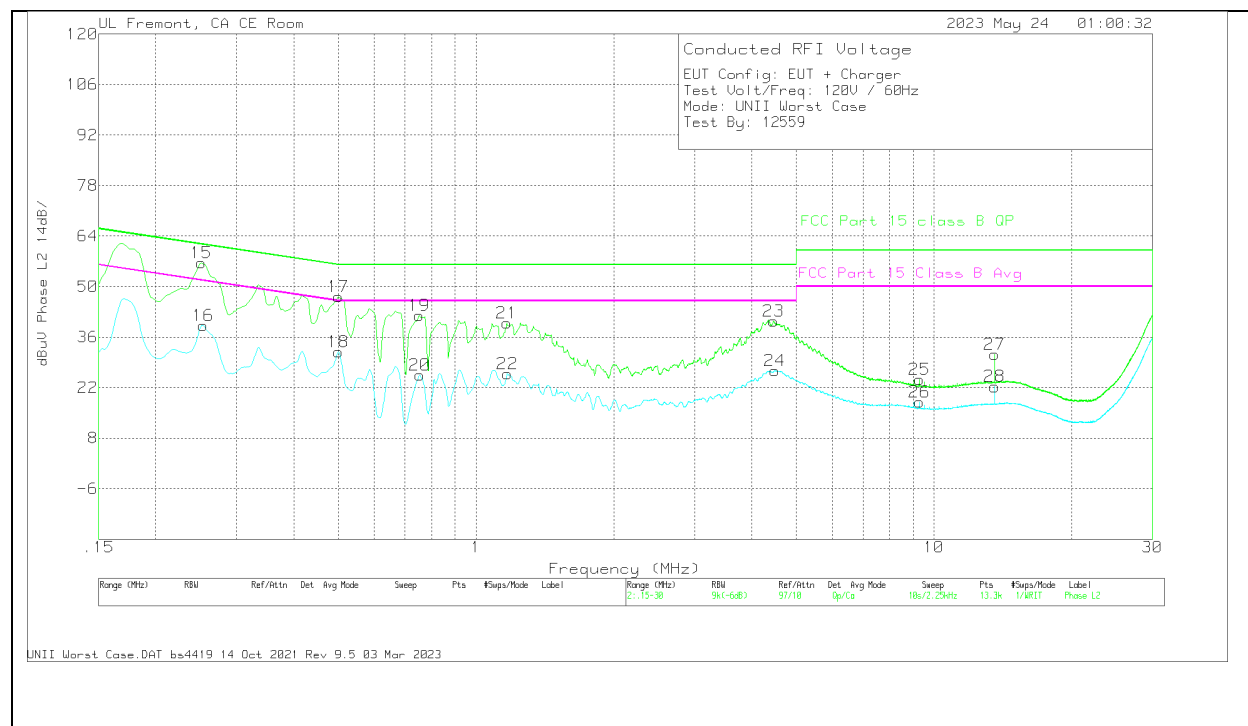
Ca - CISPR average detection

2.2. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	C1&C3 cable path loss (dB)	PRE0186447 LISN L1 (dB)	207996 Limiter with short cable (dB)	10 dB Pad	Corrected Reading dBUV	FCC Part 15 Class B Avg dBUV	Margin (dB)	FCC Part 15 class B QP dBUV	Margin (dB)
2	.2535	21.75	Ca	0	0	9.3	10	41.05	51.64	-10.59	-	-
4	.5033	12.04	Ca	.1	0	9.3	10	31.44	46	-14.56	-	-
6	.753	5.7	Ca	.1	0	9.3	10	25.1	46	-20.9	-	-
8	1.194	6.4	Ca	.1	0	9.3	10	25.8	46	-20.2	-	-
10	4.4869	9.07	Ca	.1	0	9.3	10	28.47	46	-17.53	-	-
12	9.2895	2.11	Ca	.2	0	9.3	10	21.61	50	-28.39	-	-
14	13.56	3.31	Ca	.2	.1	9.3	10	22.91	50	-27.09	-	-
1	.2513	37.52	Qp	0	0	9.3	10	56.82	-	-	61.72	-4.9
3	.501	28.08	Qp	.1	0	9.3	10	47.48	-	-	56	-8.52
5	.7508	23.24	Qp	.1	0	9.3	10	42.64	-	-	56	-13.36
7	1.1963	21.23	Qp	.1	0	9.3	10	40.63	-	-	56	-15.37
9	4.461	22.27	Qp	.1	0	9.3	10	41.67	-	-	56	-14.33
11	9.2884	8.06	Qp	.2	0	9.3	10	27.56	-	-	60	-32.44
13	13.56	12.66	Qp	.2	.1	9.3	10	32.26	-	-	60	-27.74

LINE 2 RESULTS

Range 2: Phase L2 15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	C2&C3 cable path loss (dB)	PRE0186447 LISN L2 (dB)	207996 Limiter with short cable (dB)	10 dB Pad	Corrected Reading dBuV	FCC Part 15 Class B Avg dBuV	Margin (dB)	FCC Part 15 class B QP dBuV	Margin (dB)
16	.2535	19.99	Ca	0	0	9.3	10	39.29	51.64	-12.35	-	-
18	.501	12.5	Ca	.1	0	9.3	10	31.9	46	-14.1	-	-
20	.753	6.01	Ca	.1	0	9.3	10	25.41	46	-20.59	-	-
22	1.1715	6.48	Ca	.1	0	9.3	10	25.88	46	-20.12	-	-
24	4.4925	7.33	Ca	.1	0	9.3	10	26.73	46	-19.27	-	-
26	9.2873	-1.41	Ca	.2	0	9.3	10	18.09	50	-31.91	-	-
28	13.56	2.68	Ca	.2	.1	9.3	10	22.28	50	-27.72	-	-
15	.2513	37.3	Qp	0	0	9.3	10	56.6	-	-	61.72	-5.12
17	.501	27.86	Qp	.1	0	9.3	10	47.26	-	-	56	-8.74
19	.7508	22.64	Qp	.1	0	9.3	10	42.04	-	-	56	-13.96
21	1.167	20.46	Qp	.1	0	9.3	10	39.86	-	-	56	-16.14
23	4.4644	21	Qp	.1	0	9.3	10	40.4	-	-	56	-15.6
25	9.2873	4.78	Qp	.2	0	9.3	10	24.28	-	-	60	-35.72
27	13.56	11.56	Qp	.2	.1	9.3	10	31.16	-	-	60	-28.84

Qp - Quasi-Peak detector

Ca - CISPR average detection

3. SETUP PHOTOS:

Please refer to setup report 14523758-EP1V1

END OF TEST REPORT