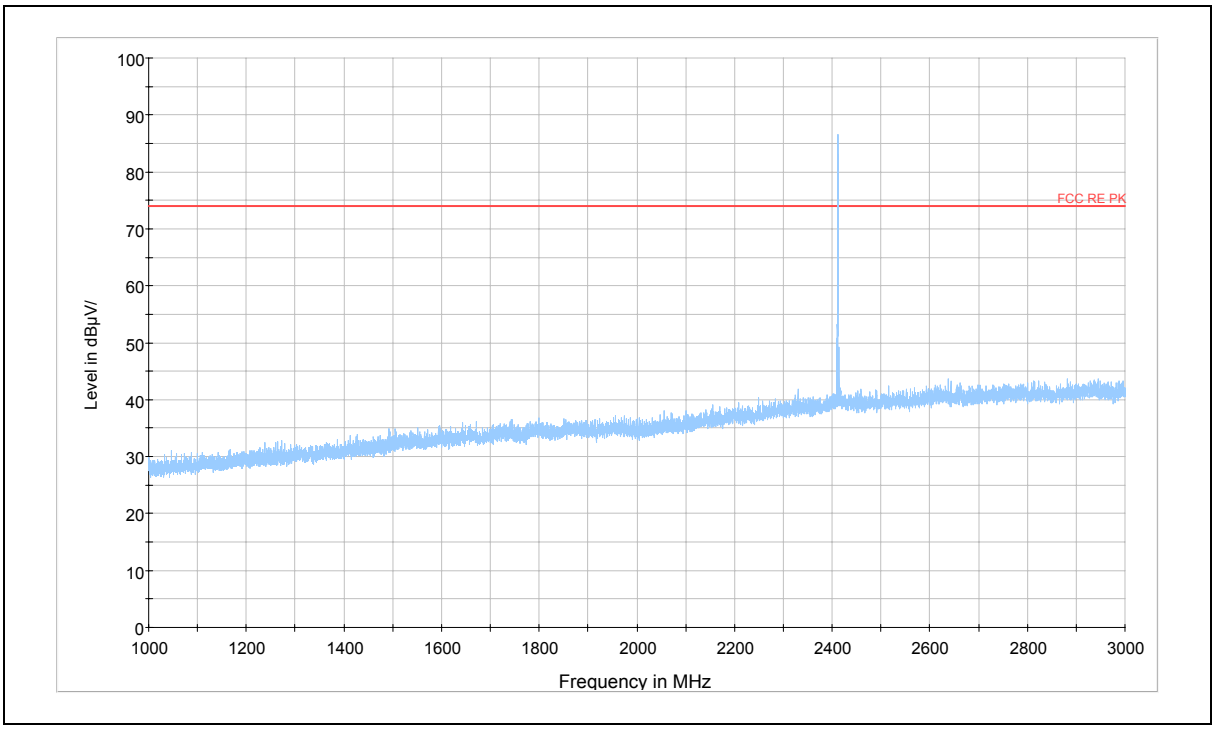
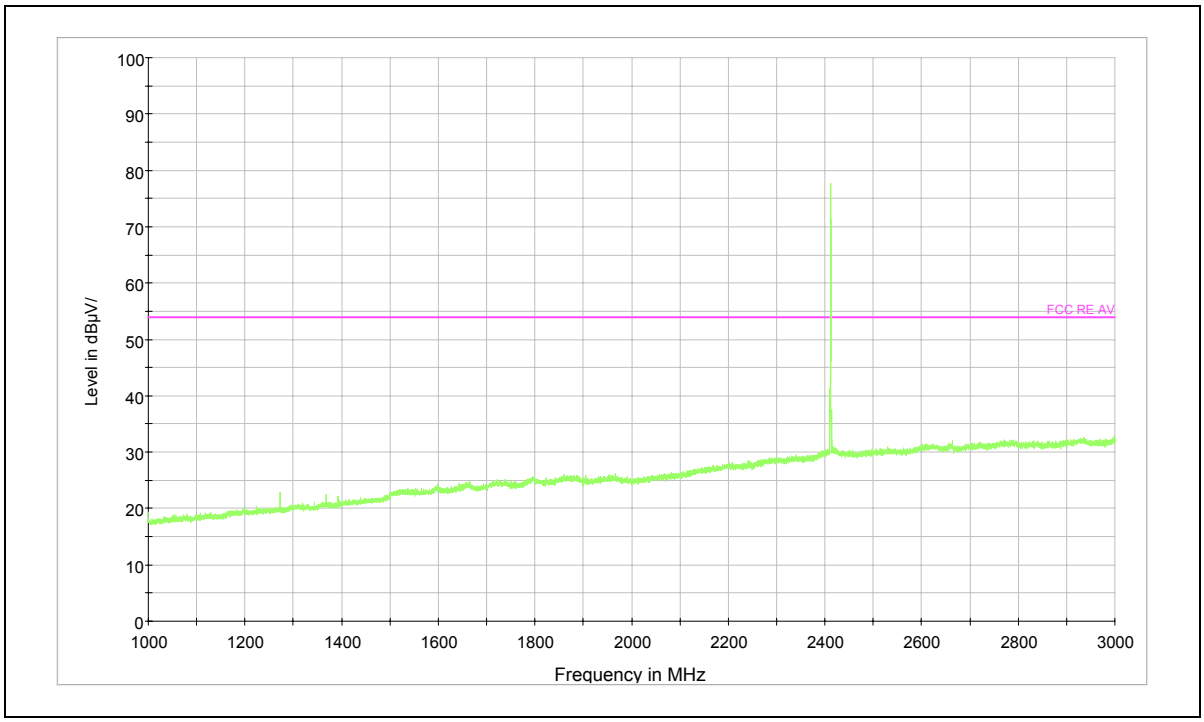
Peak



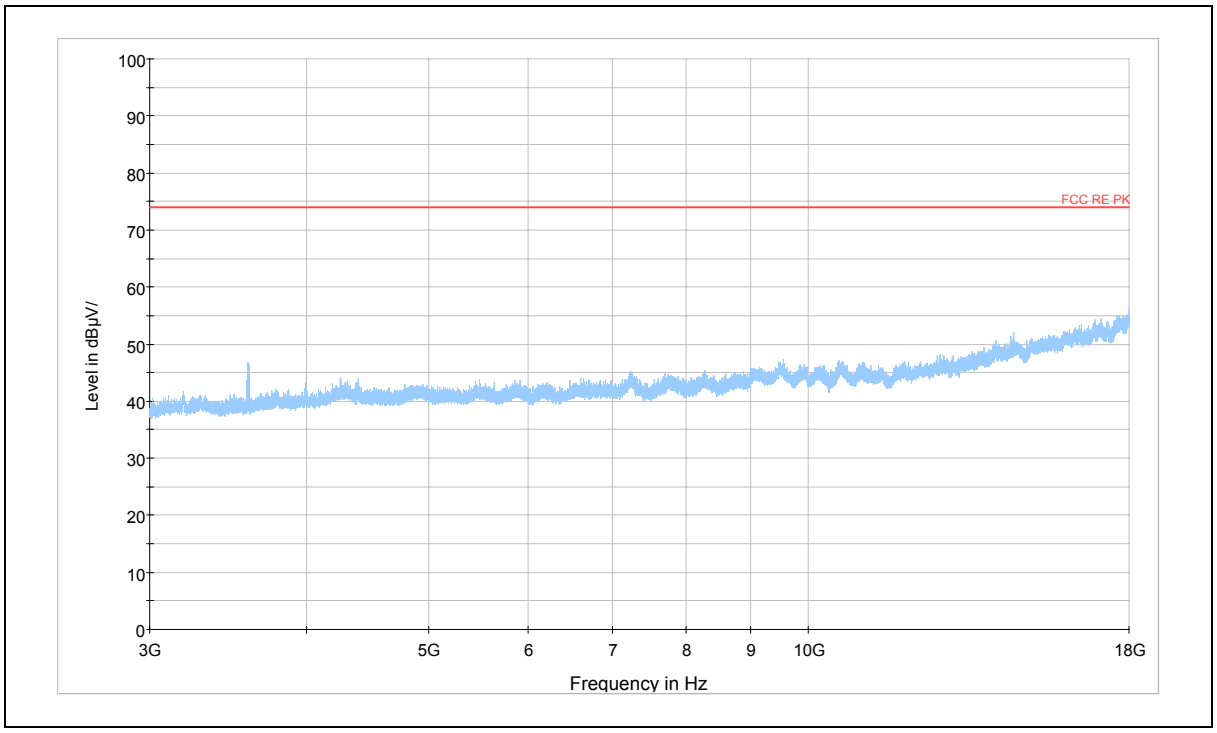
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



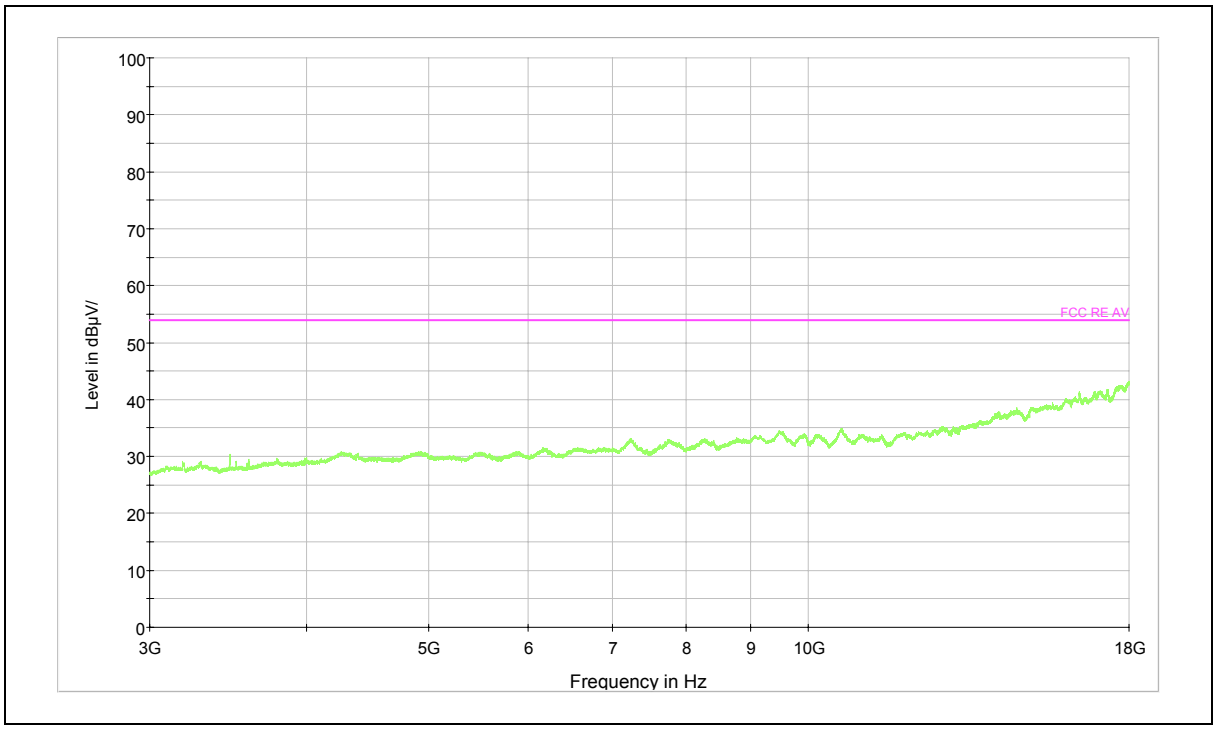
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



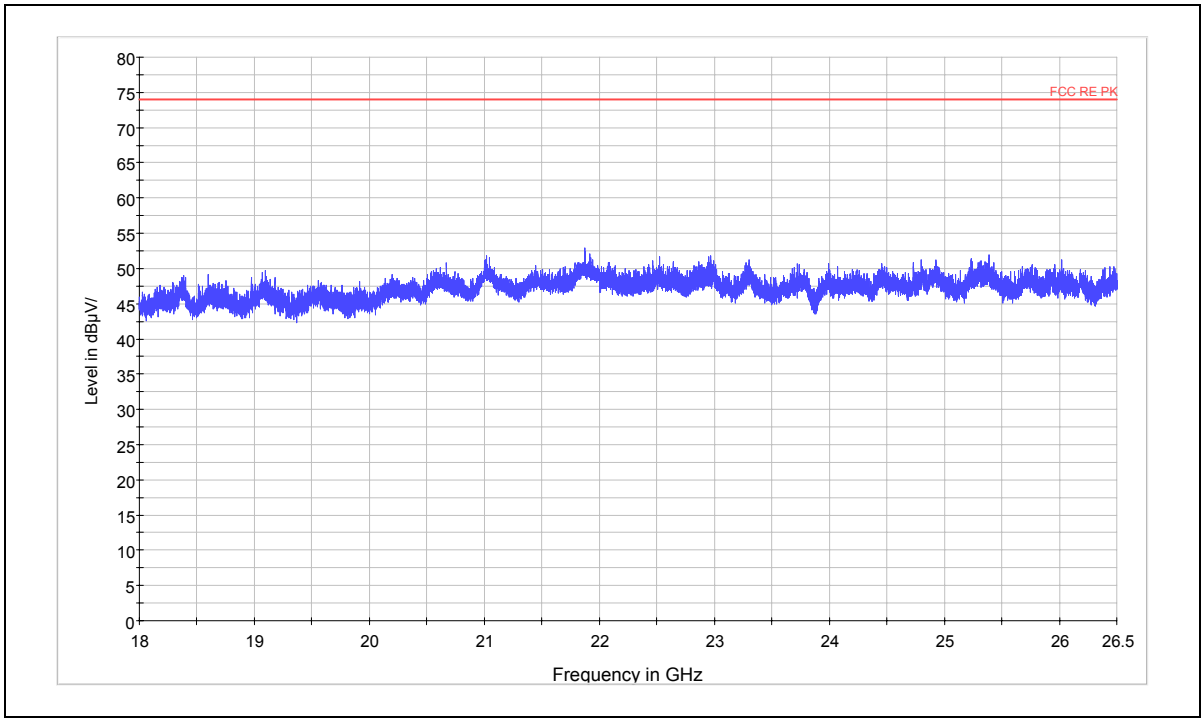
Radiates Emission from 3GHz to 18GHz

Average



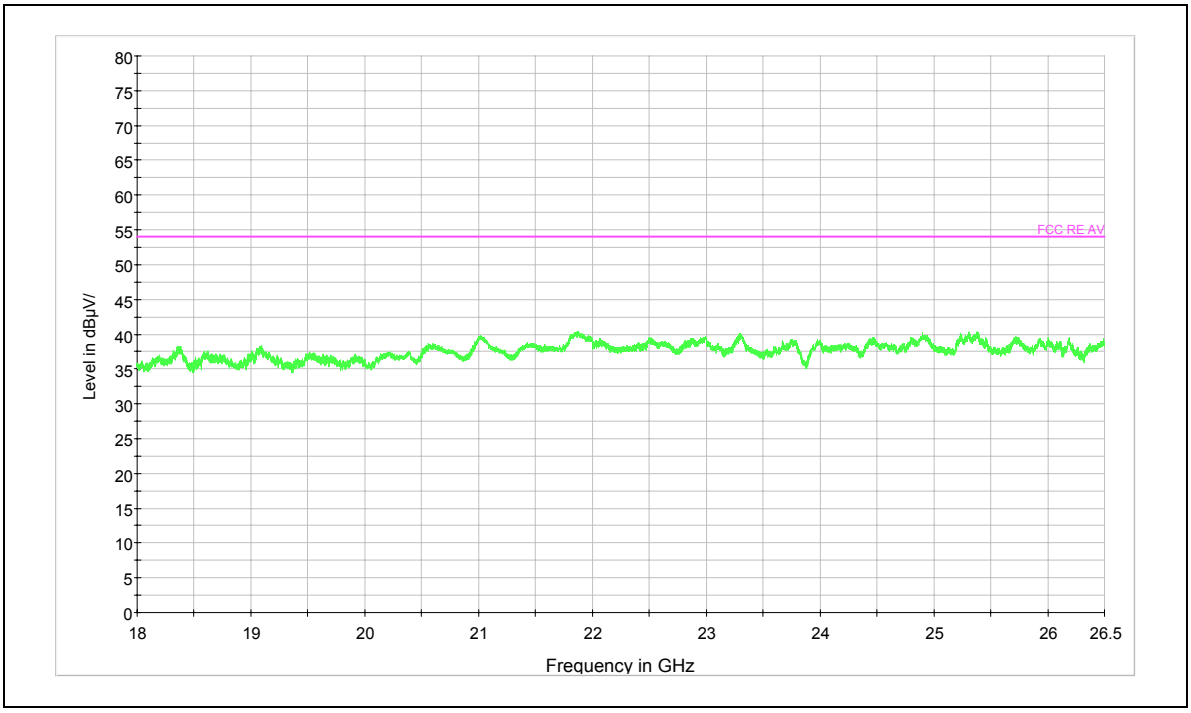
Radiates Emission from 3GHz to 18GHz

Peak



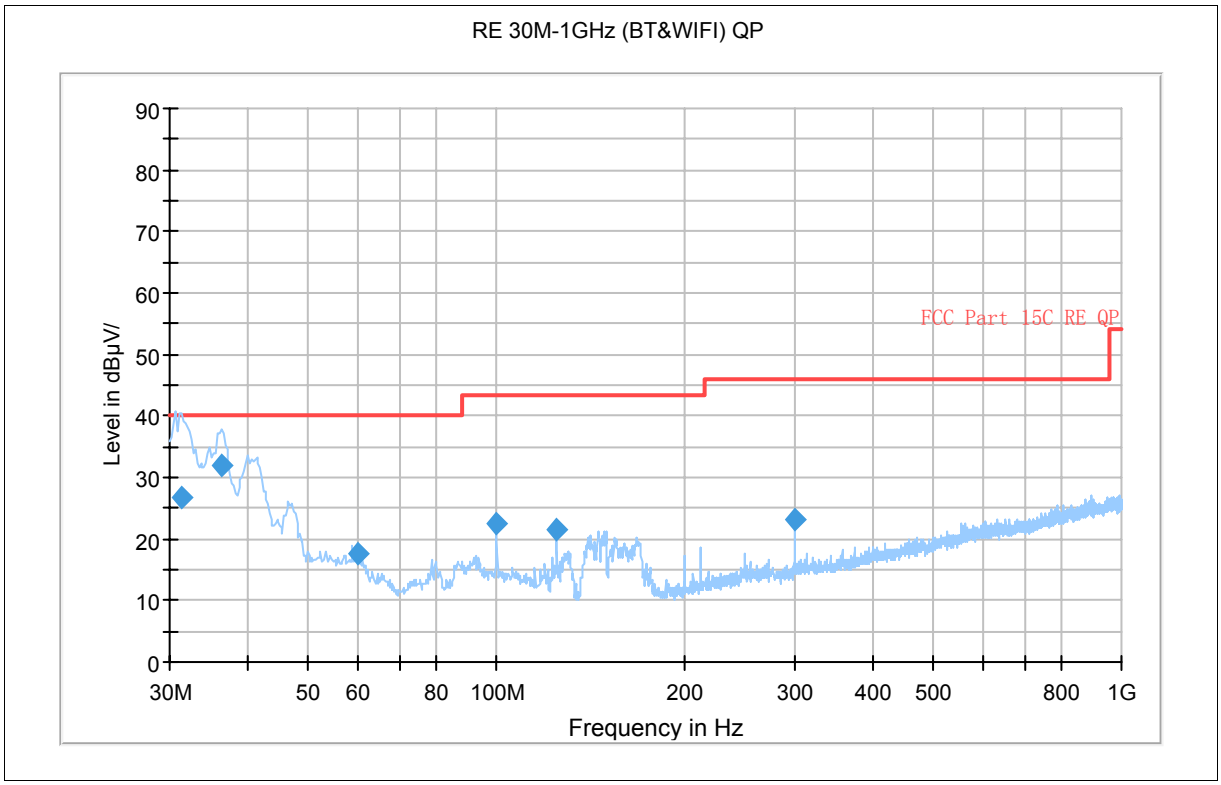
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

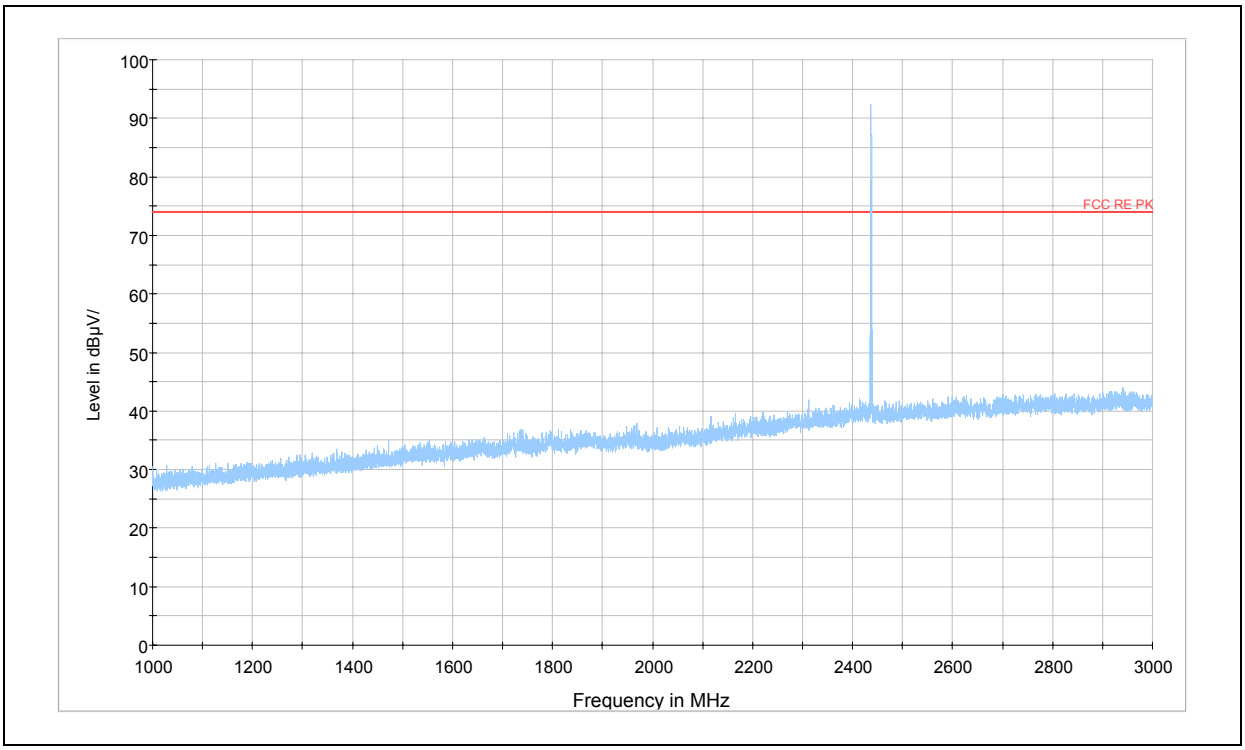
802.11g CH6



Radiates Emission from 30MHz to 1GHz

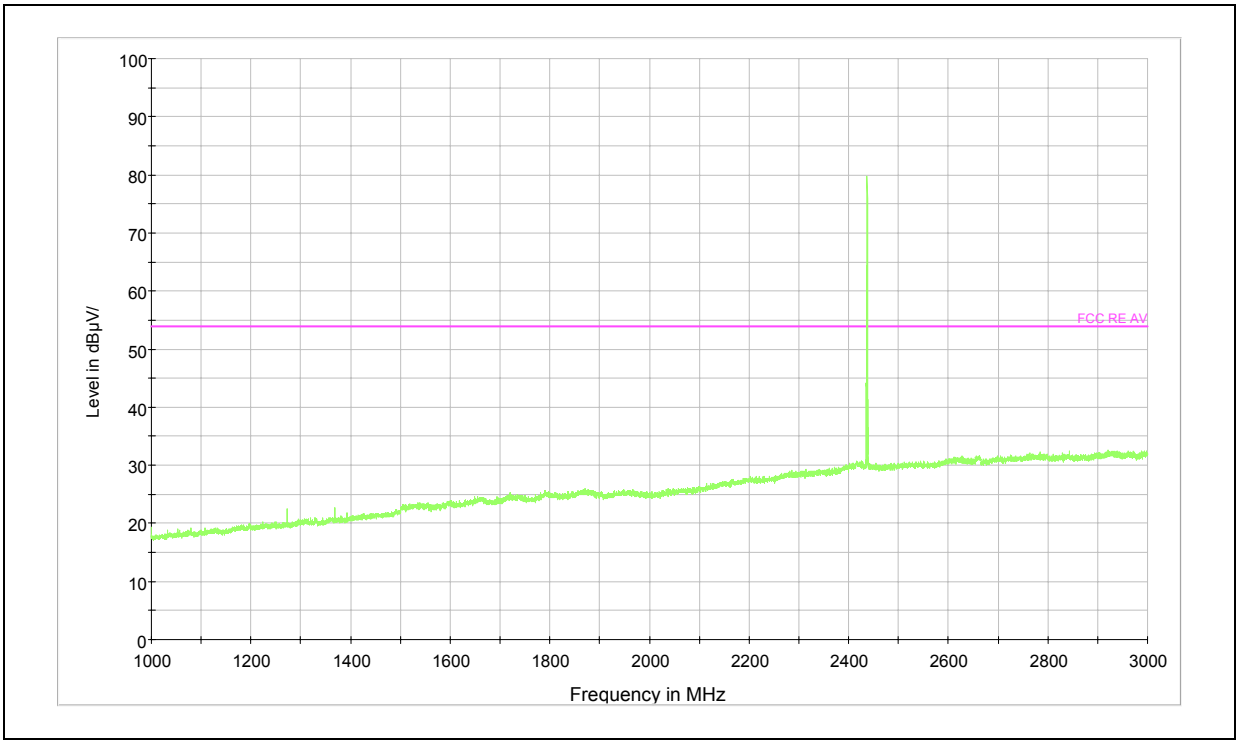
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
31.327500	26.7	125.0	V	0.0	13.3	40.0
36.385000	31.9	100.0	V	315.0	8.1	40.0
59.987500	17.5	100.0	V	55.0	22.5	40.0
100.000000	22.6	100.0	V	270.0	20.9	43.5
125.017500	21.5	100.0	V	315.0	22.0	43.5
300.022500	23.2	100.0	H	298.0	22.8	46.0

Peak



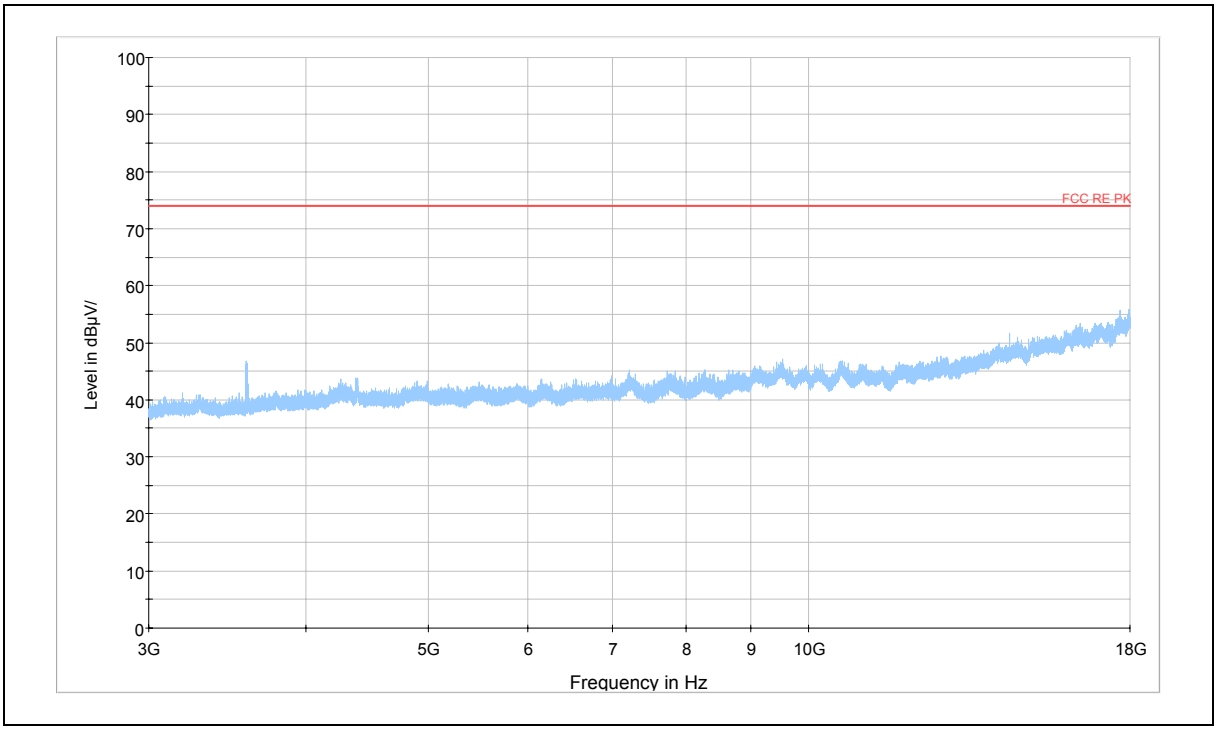
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



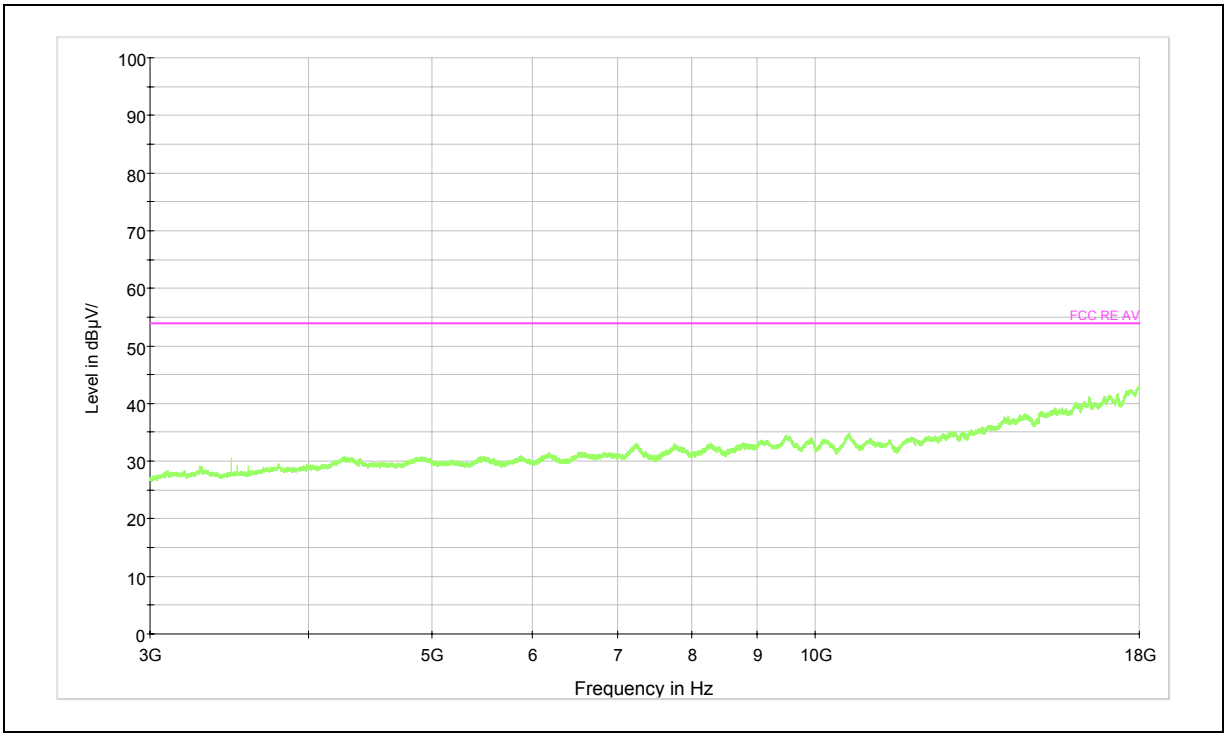
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



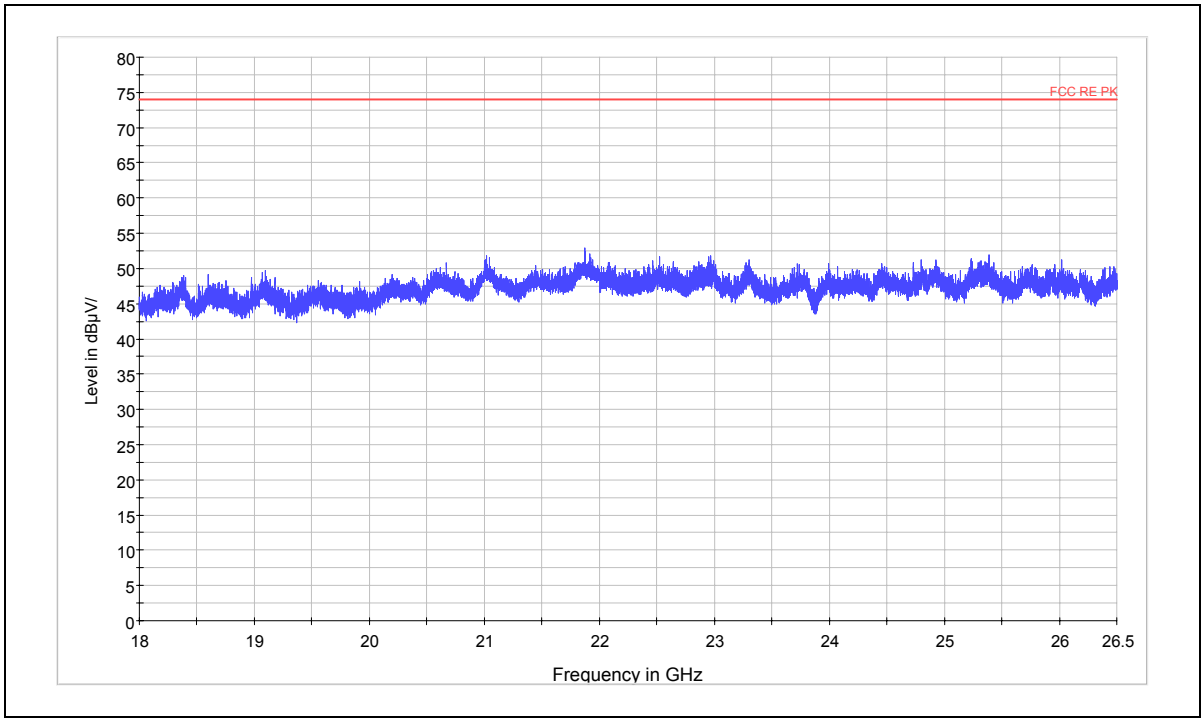
Radiates Emission from 3GHz to 18GHz

Average



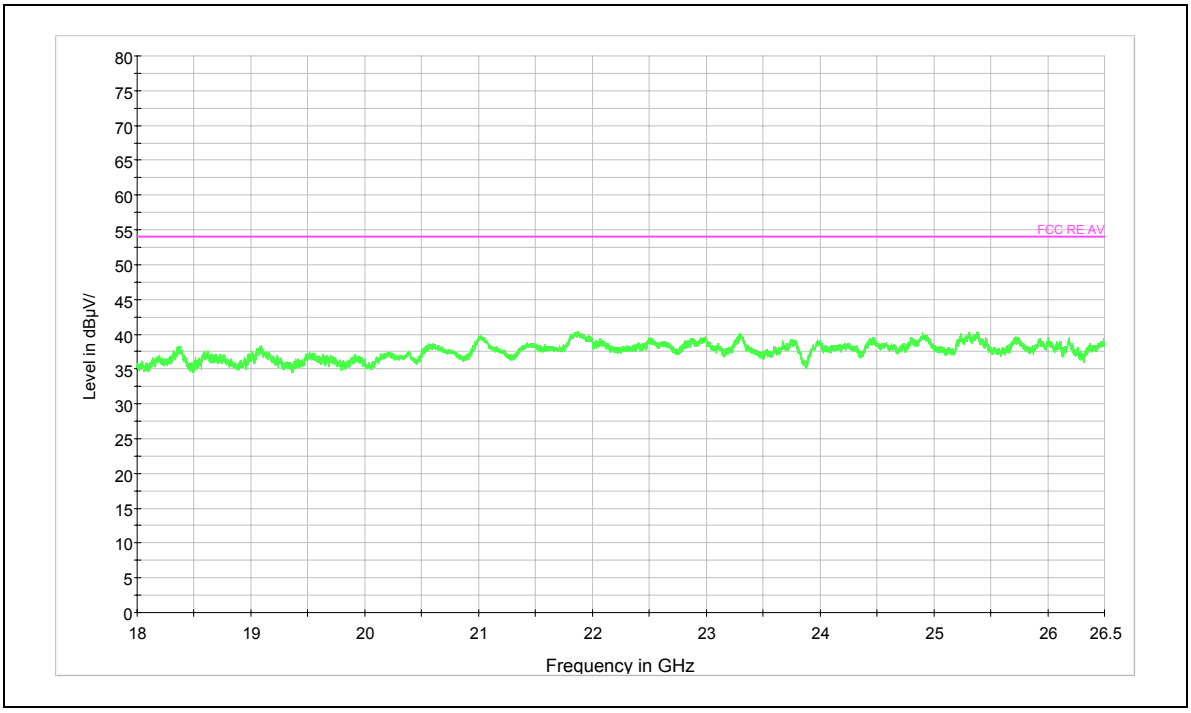
Radiates Emission from 3GHz to 18GHz

Peak



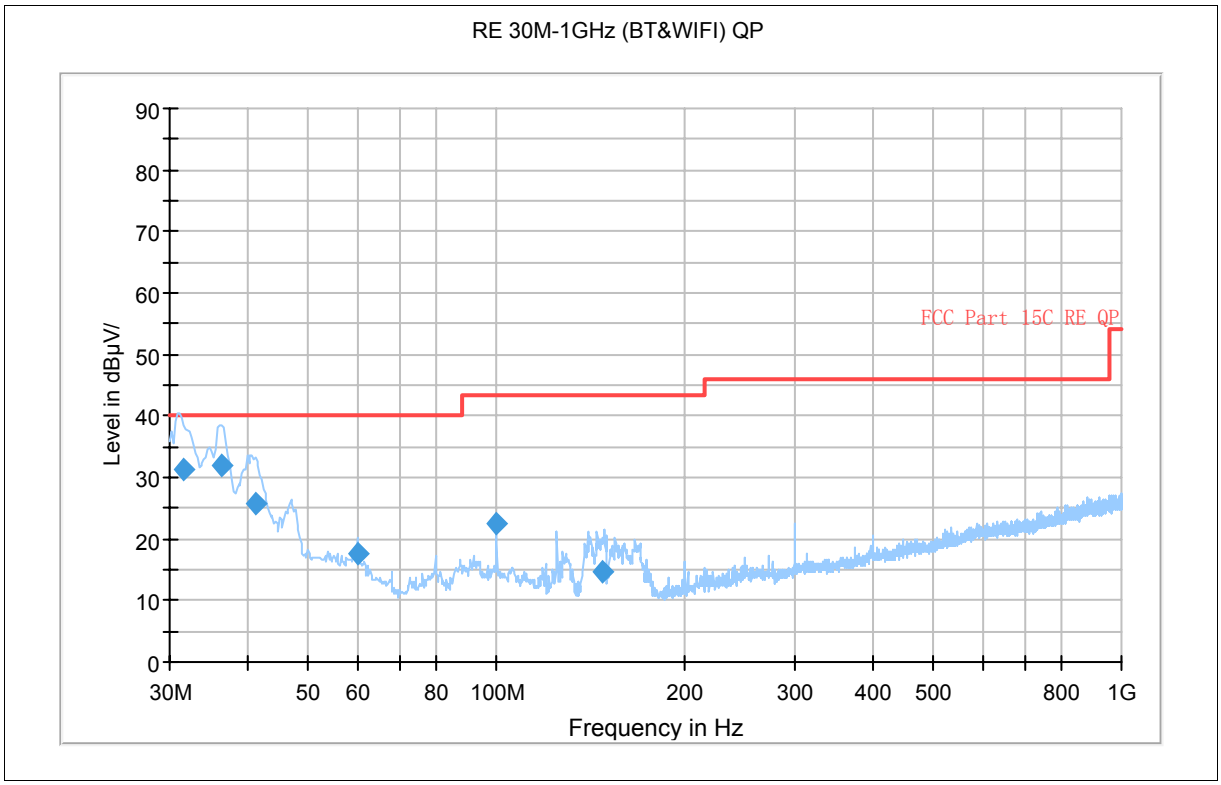
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

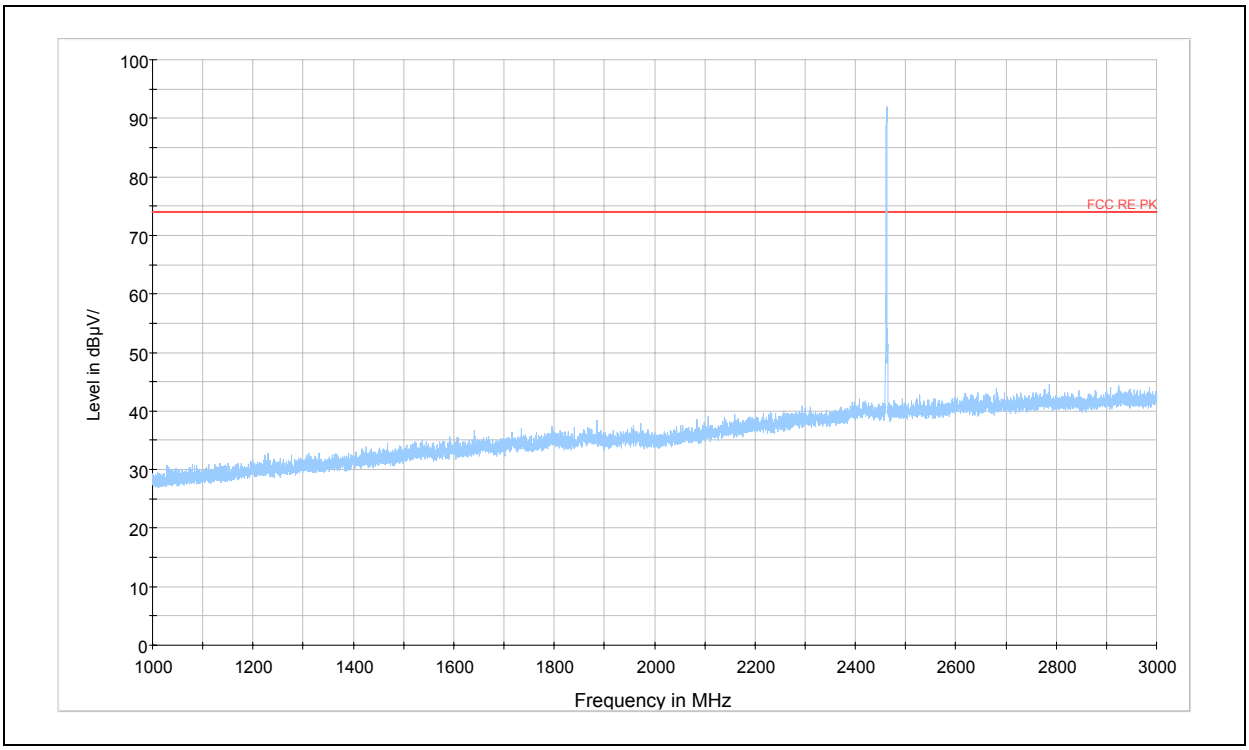
802.11g CH11



Radiates Emission from 30MHz to 1GHz

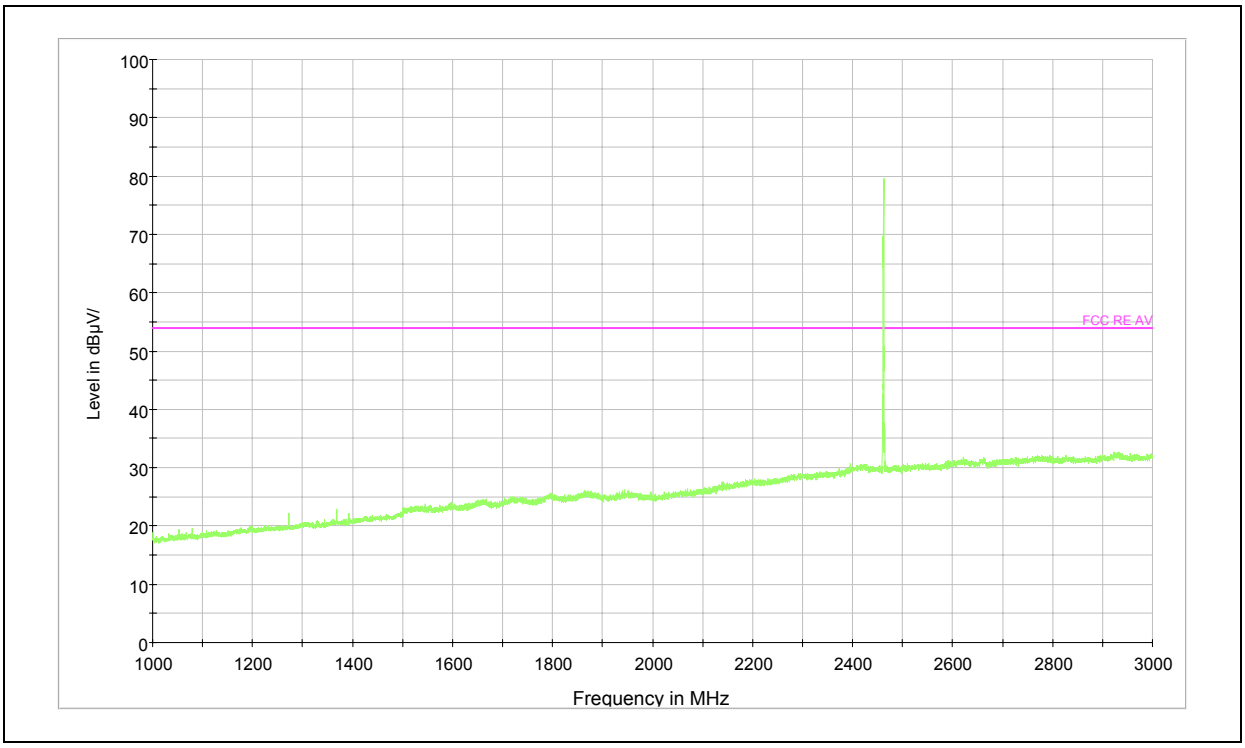
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
31.530000	31.2	116.0	V	45.0	8.8	40.0
36.422500	31.8	100.0	V	298.0	8.2	40.0
41.075000	25.9	125.0	V	217.0	14.1	40.0
59.987500	17.6	100.0	V	16.0	22.4	40.0
100.000000	22.6	100.0	V	270.0	20.9	43.5
147.982500	14.6	100.0	V	0.0	28.9	43.5

Peak



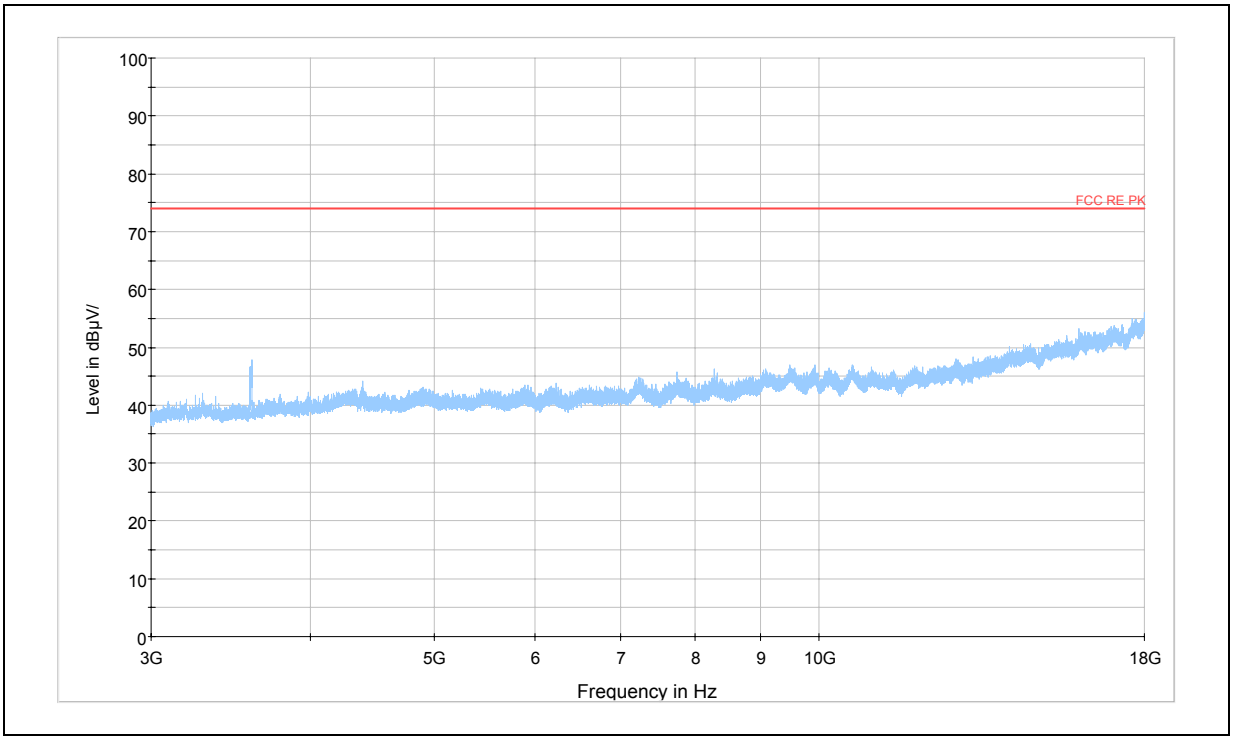
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



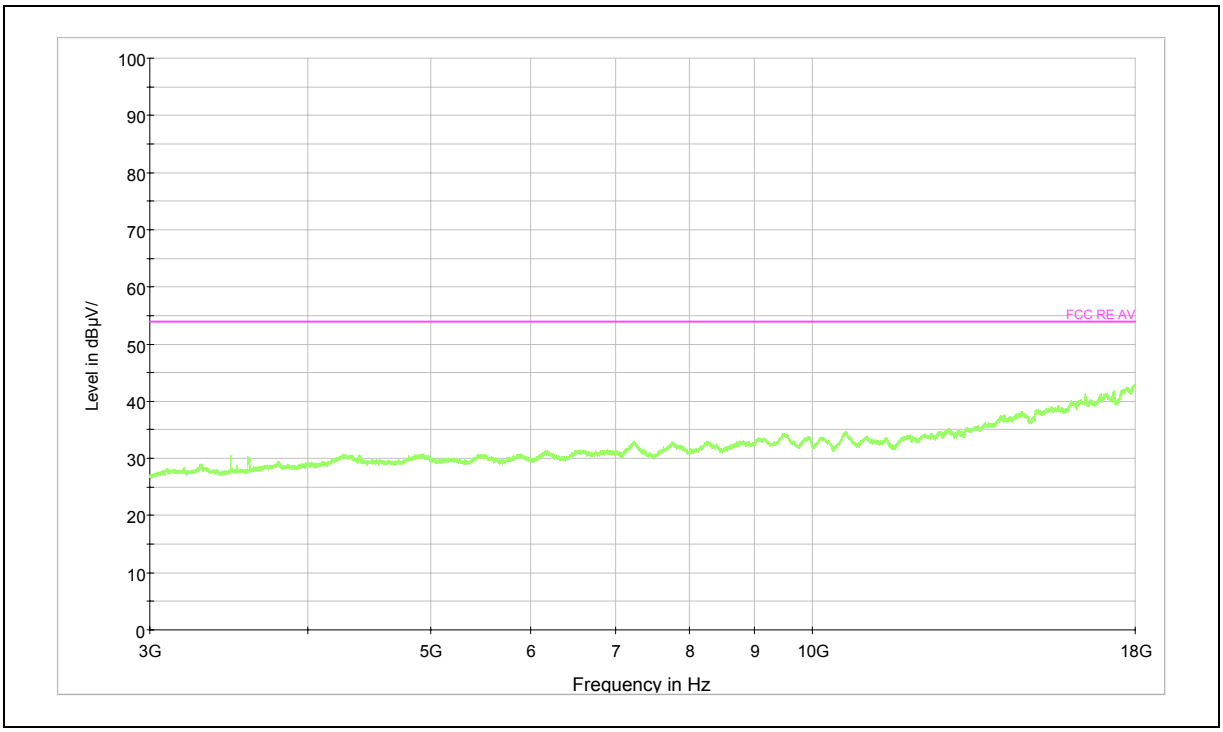
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



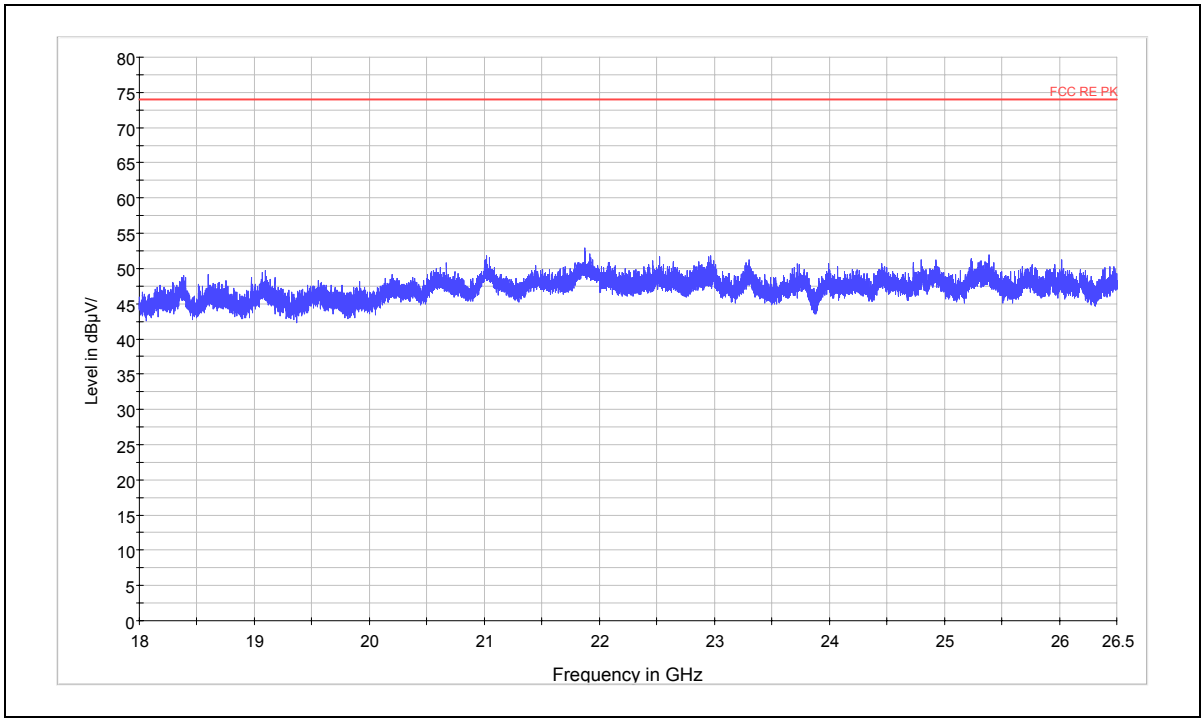
Radiates Emission from 3GHz to 18GHz

Average



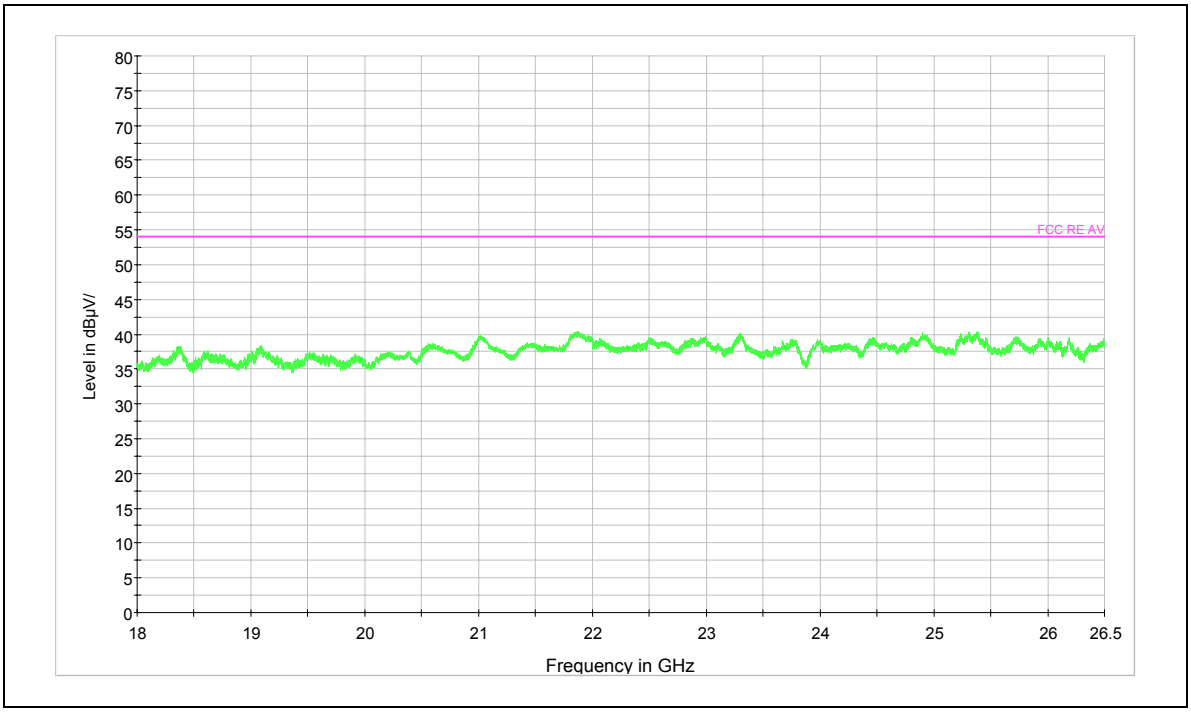
Radiates Emission from 3GHz to 18GHz

Peak



Radiates Emission from 18GHz to 26.5GHz

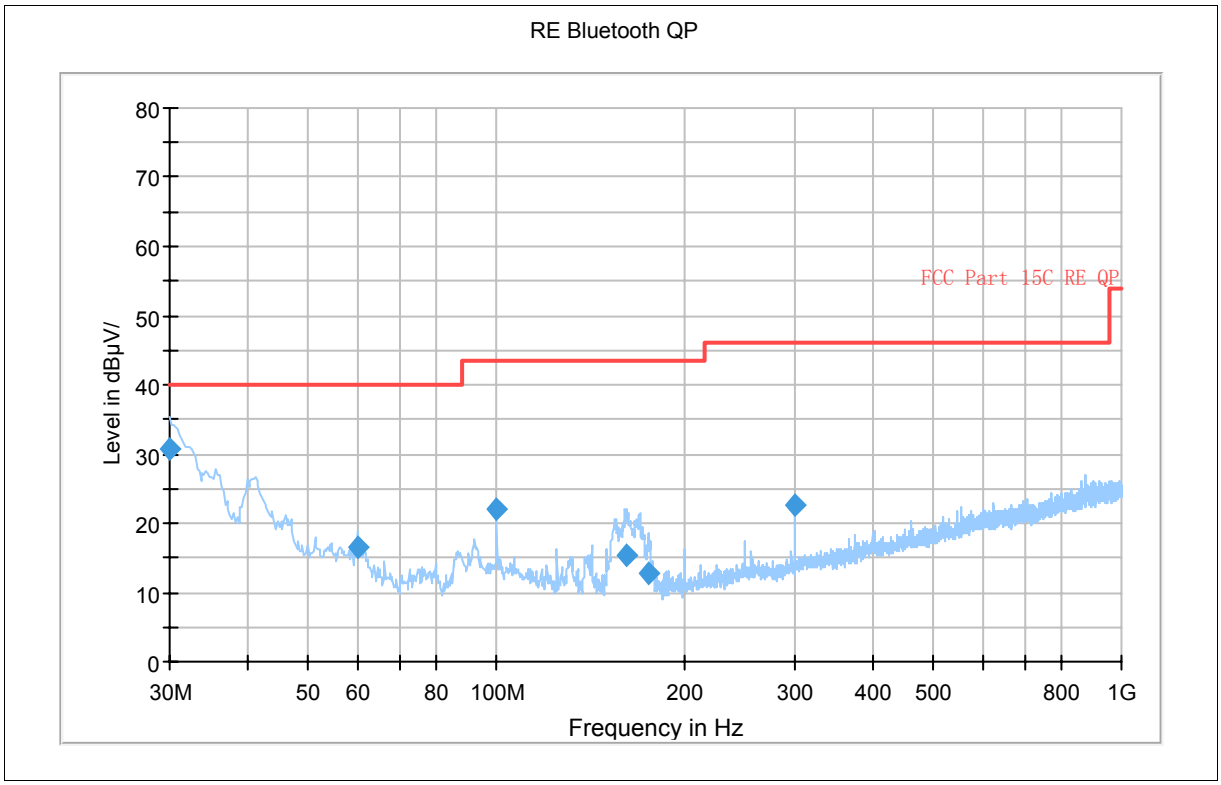
Average



Radiates Emission from 18GHz to 26.5GHz

Eut with White Earphone

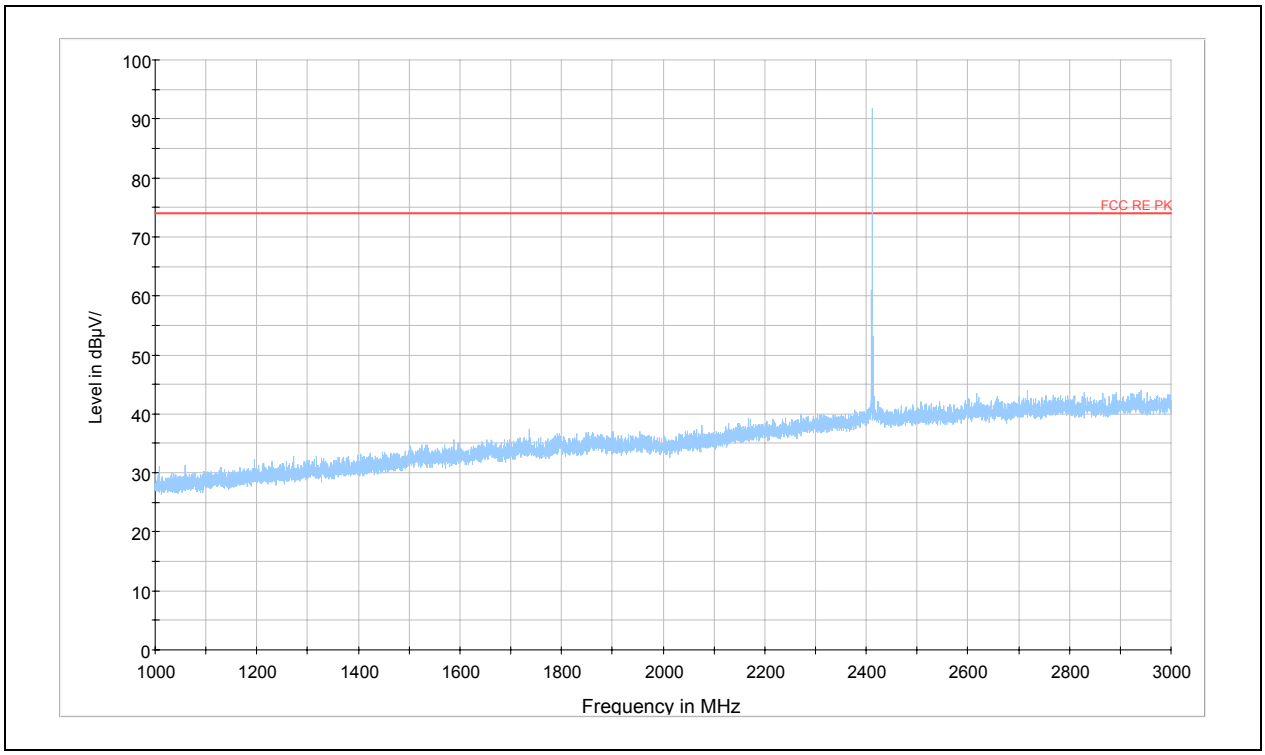
802.11b CH1



Radiates Emission from 30MHz to 1GHz

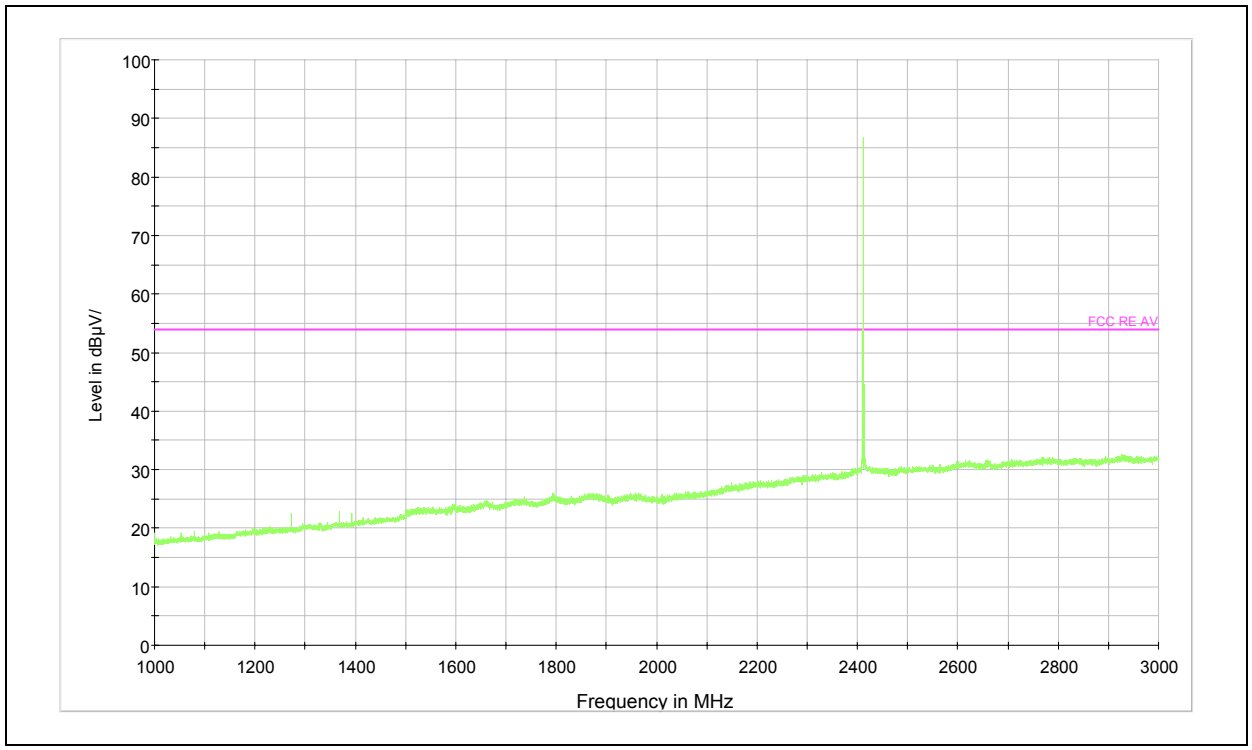
Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
30.040000	30.8	100.0	V	16.0	9.2	40.0
59.987500	16.6	125.0	V	45.0	23.4	40.0
100.000000	22.0	116.0	V	52.0	18.0	40.0
161.317500	15.3	100.0	V	2.0	24.7	40.0
175.015000	12.7	125.0	V	4.0	27.3	40.0
300.022500	22.7	100.0	V	2.0	24.3	47.0

Peak



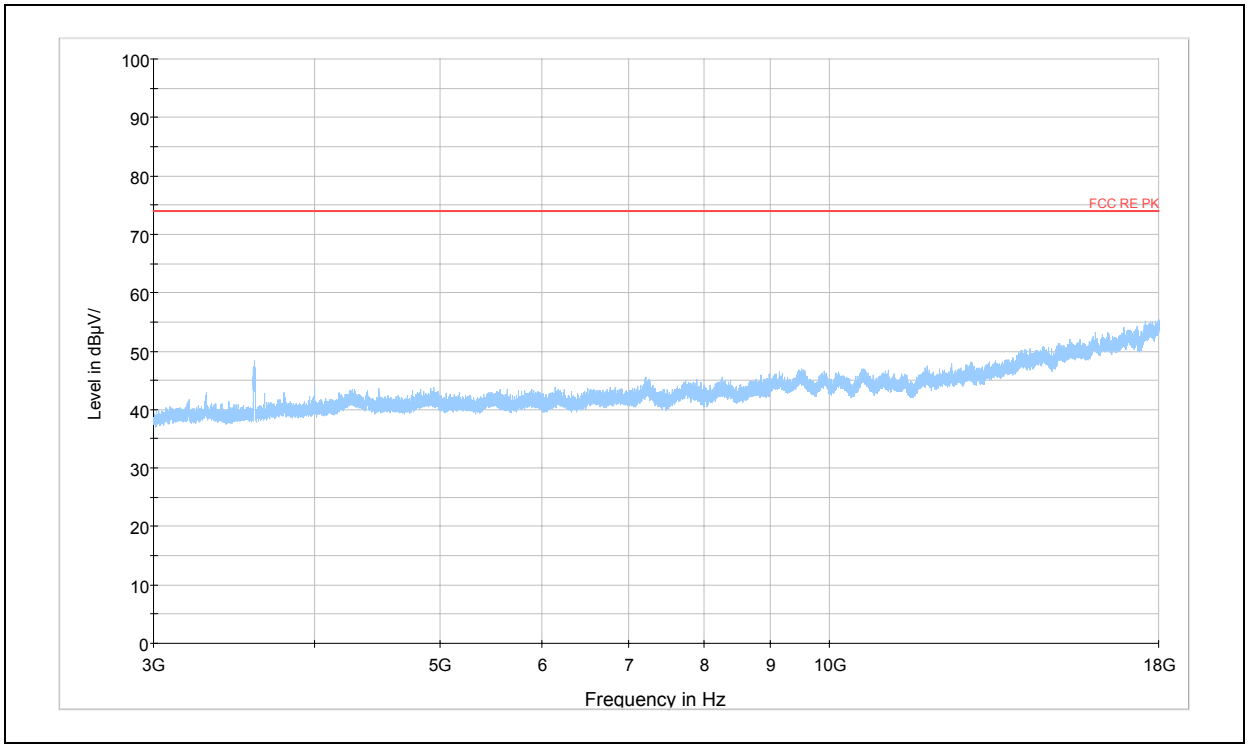
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



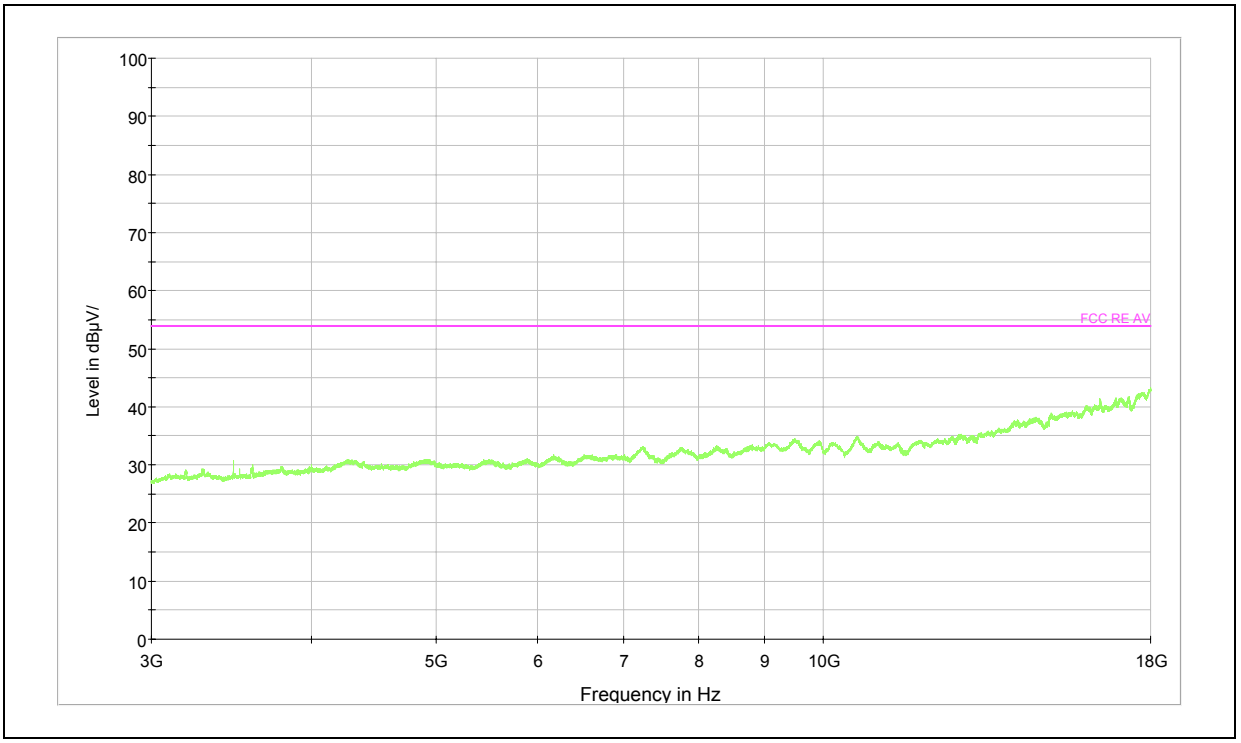
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



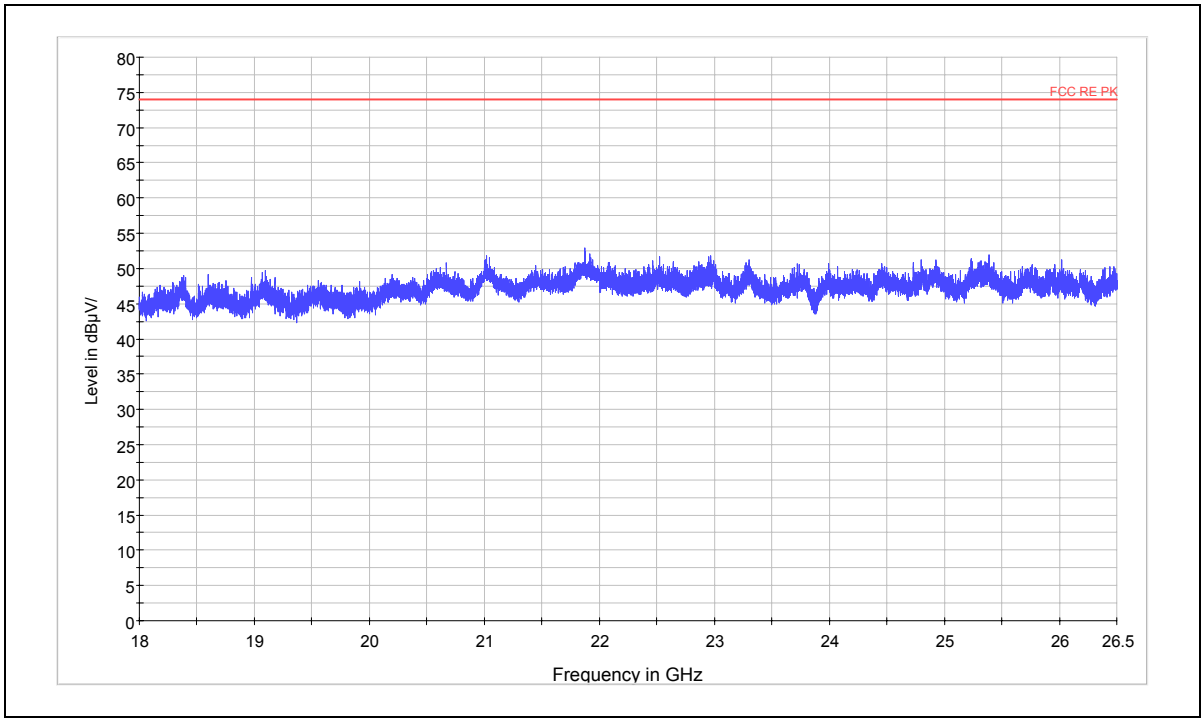
Radiates Emission from 3GHz to 18GHz

Average



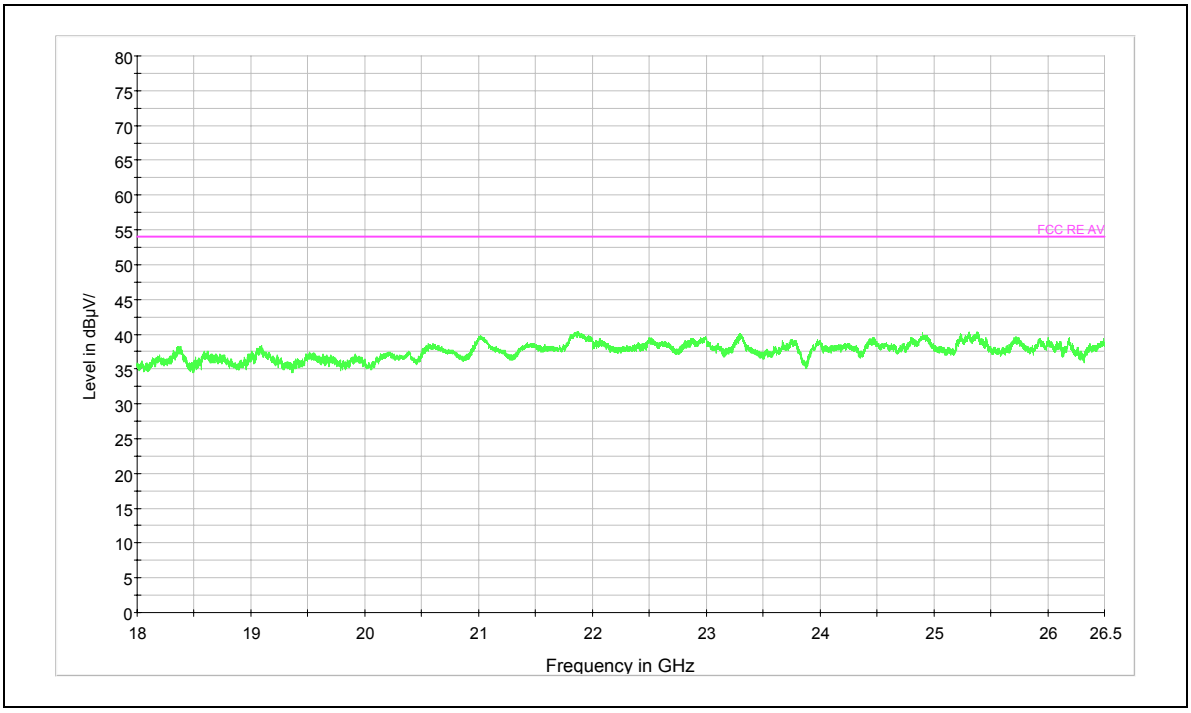
Radiates Emission from 3GHz to 18GHz

Peak



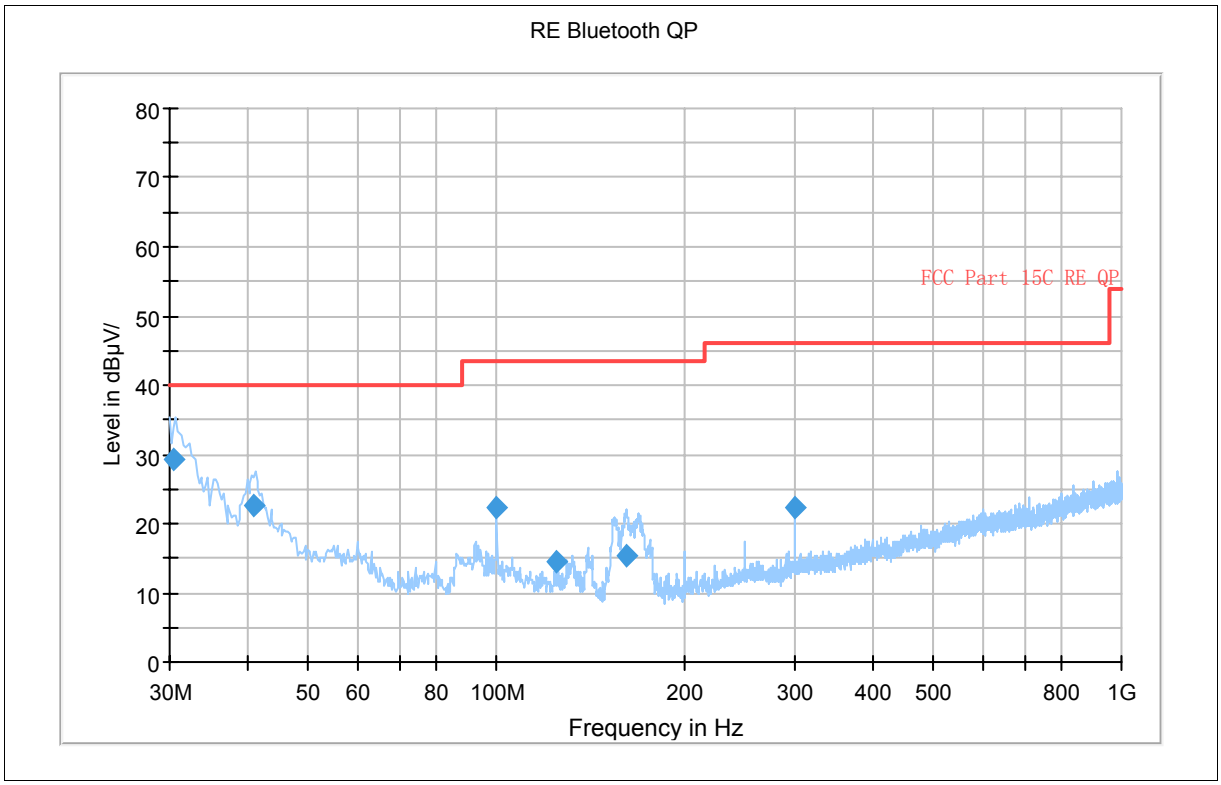
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

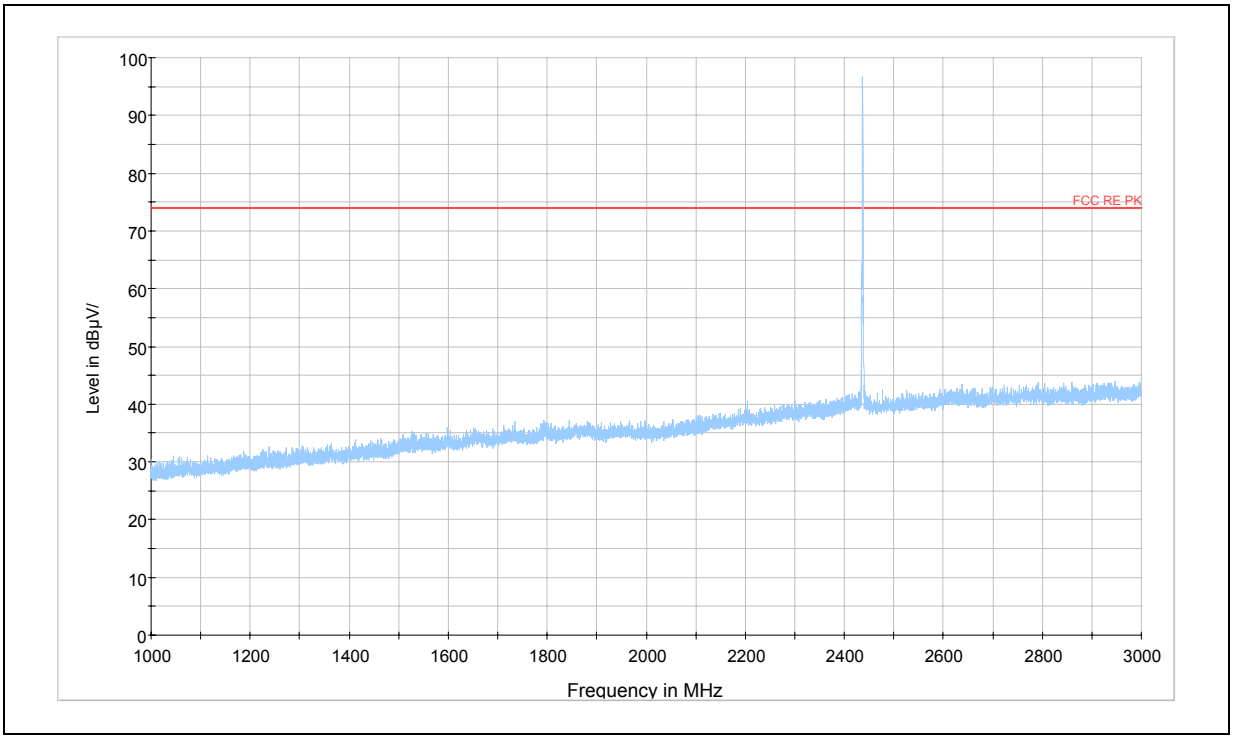
802.11b CH6



Radiates Emission from 30MHz to 1GHz

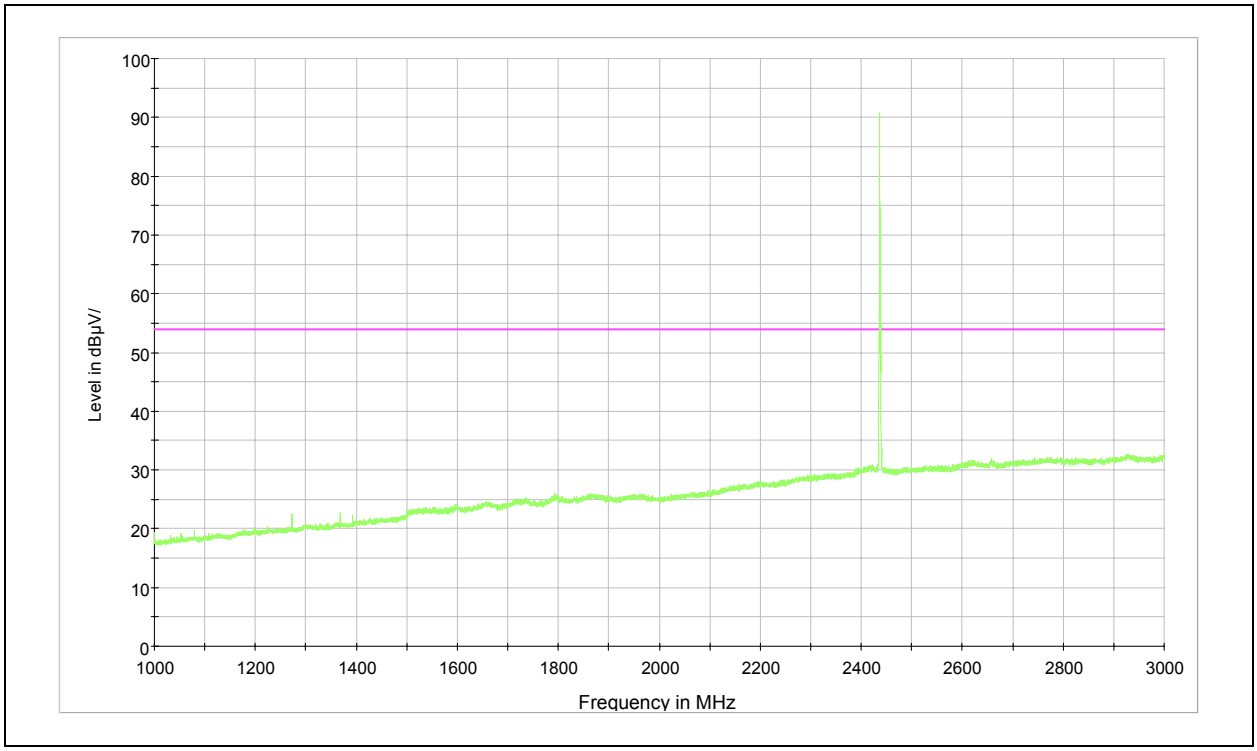
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
30.487500	29.1	100.0	V	0.0	10.9	40.0
40.995000	22.7	100.0	V	45.0	17.3	40.0
100.000000	22.3	100.0	V	45.0	17.7	40.0
125.020000	14.6	116.0	V	2.0	25.4	40.0
161.157500	15.3	100.0	V	2.0	24.7	40.0
300.022500	22.4	100.0	V	5.0	24.6	47.0

Peak



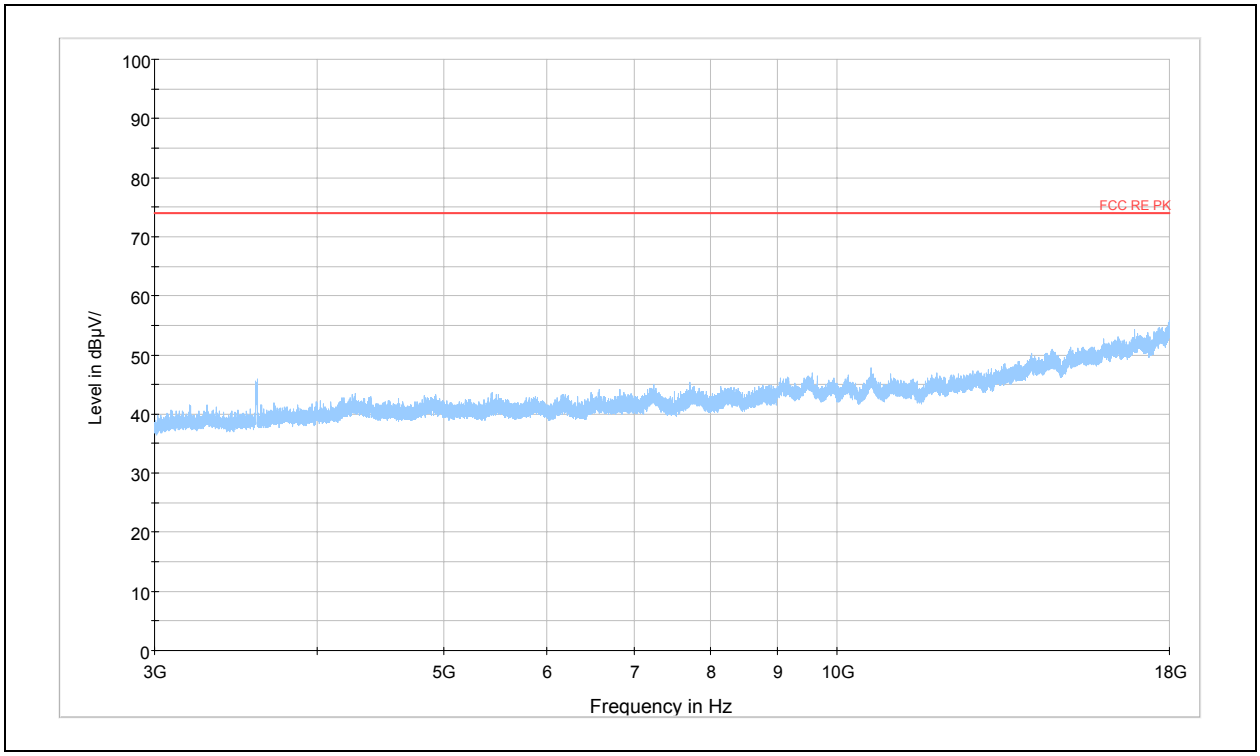
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



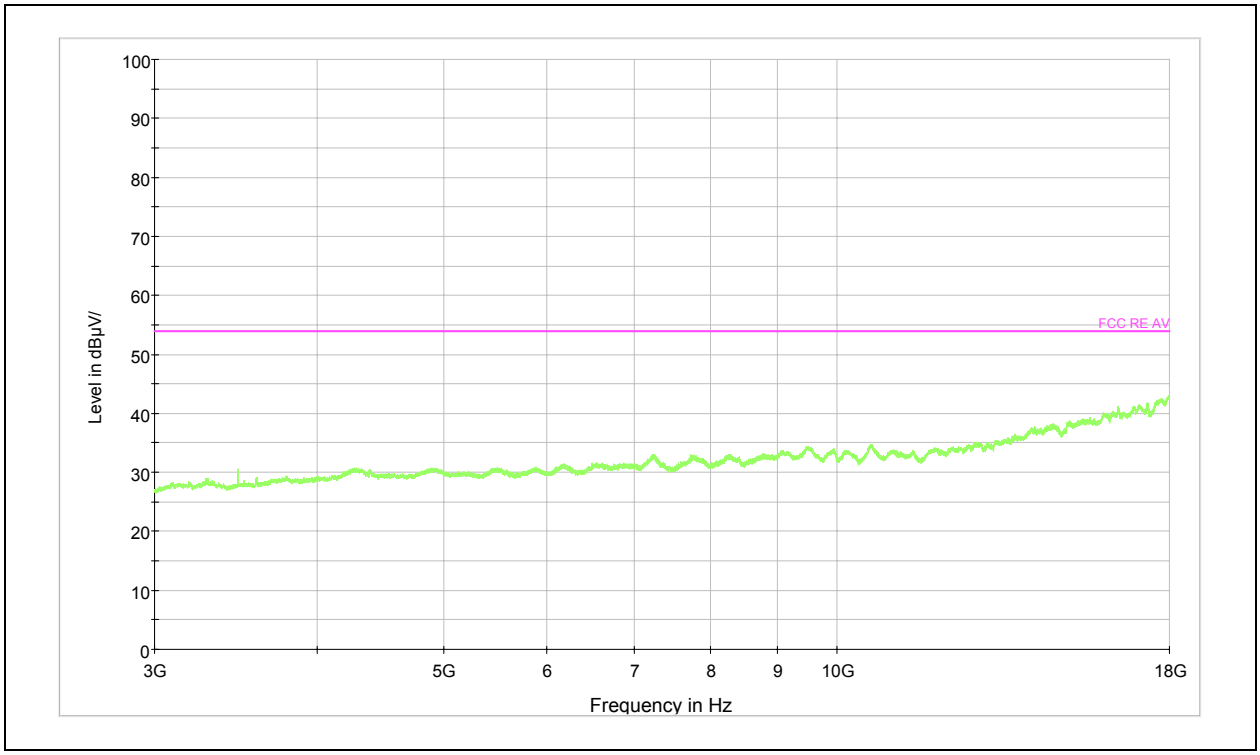
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



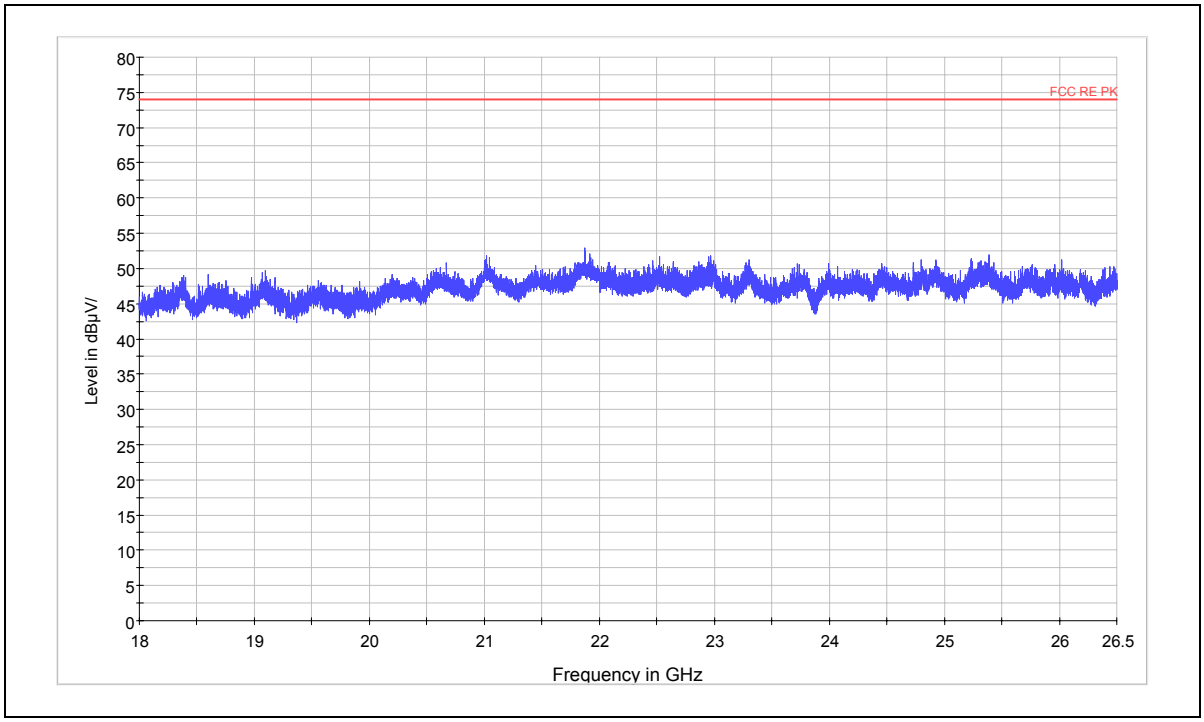
Radiates Emission from 3GHz to 18GHz

Average



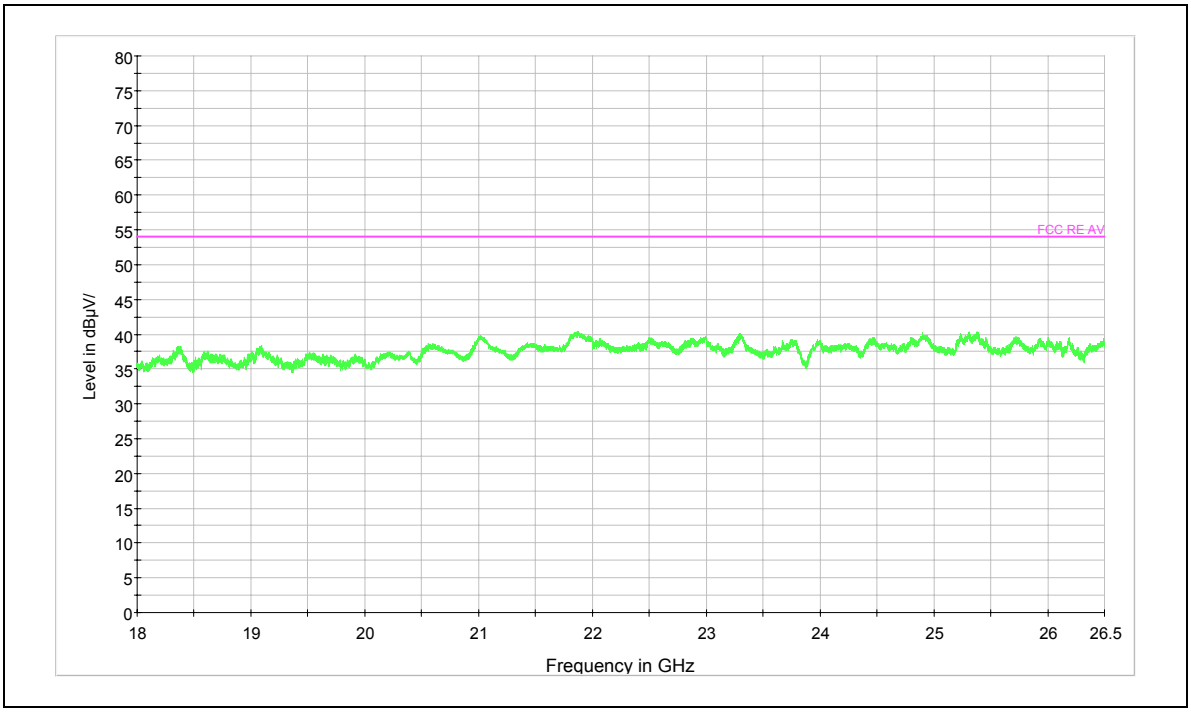
Radiates Emission from 3GHz to 18GHz

Peak



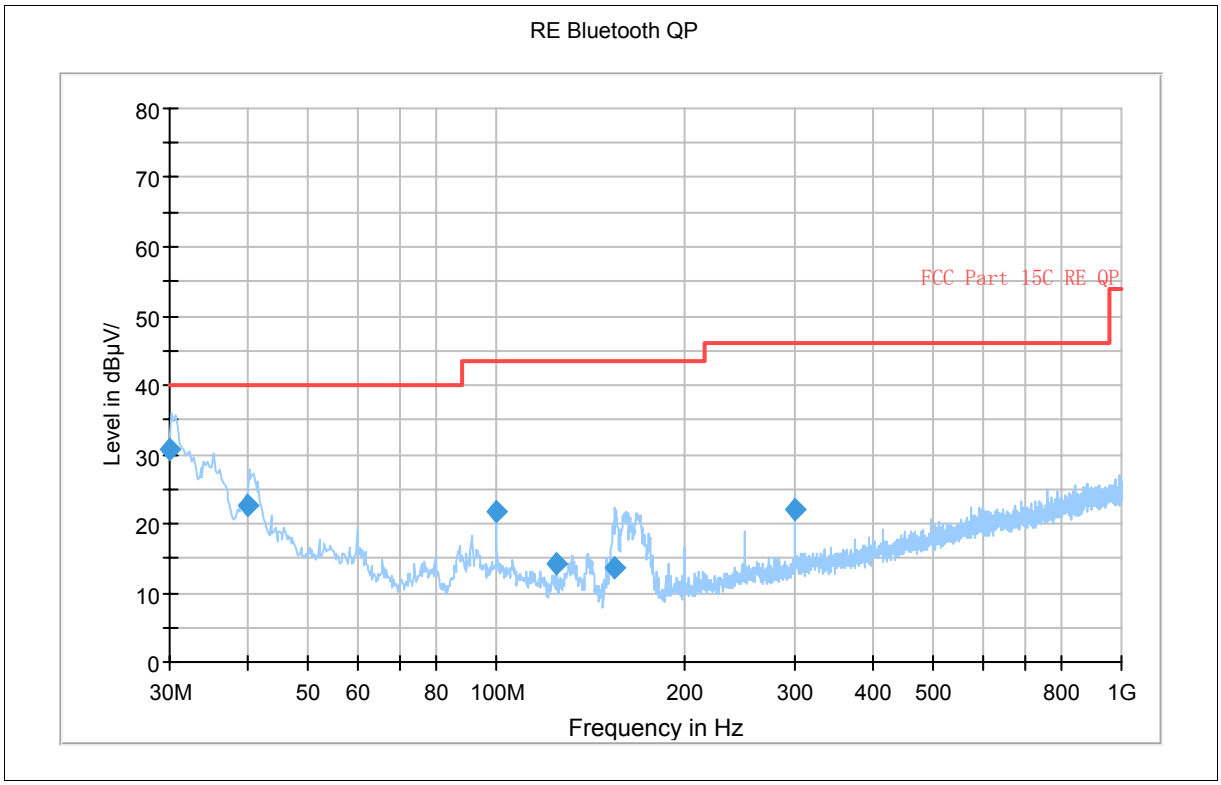
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

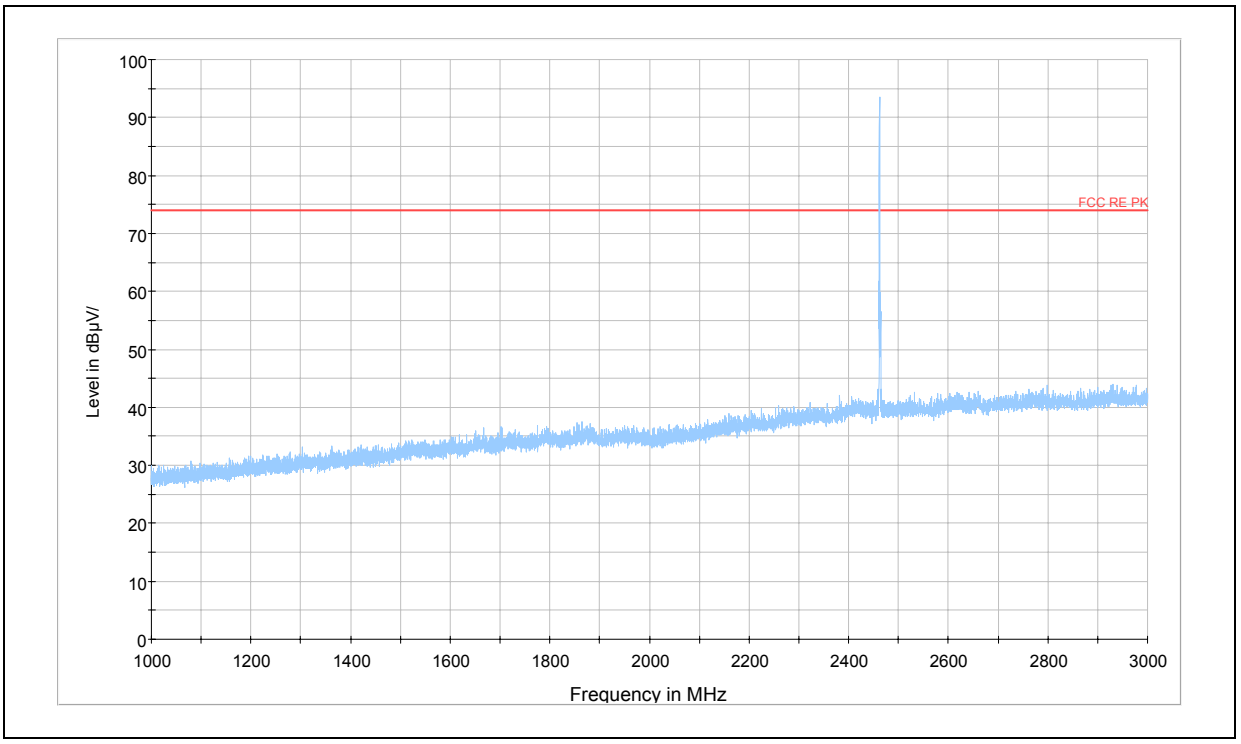
802.11b CH11



Radiates Emission from 30MHz to 1GHz

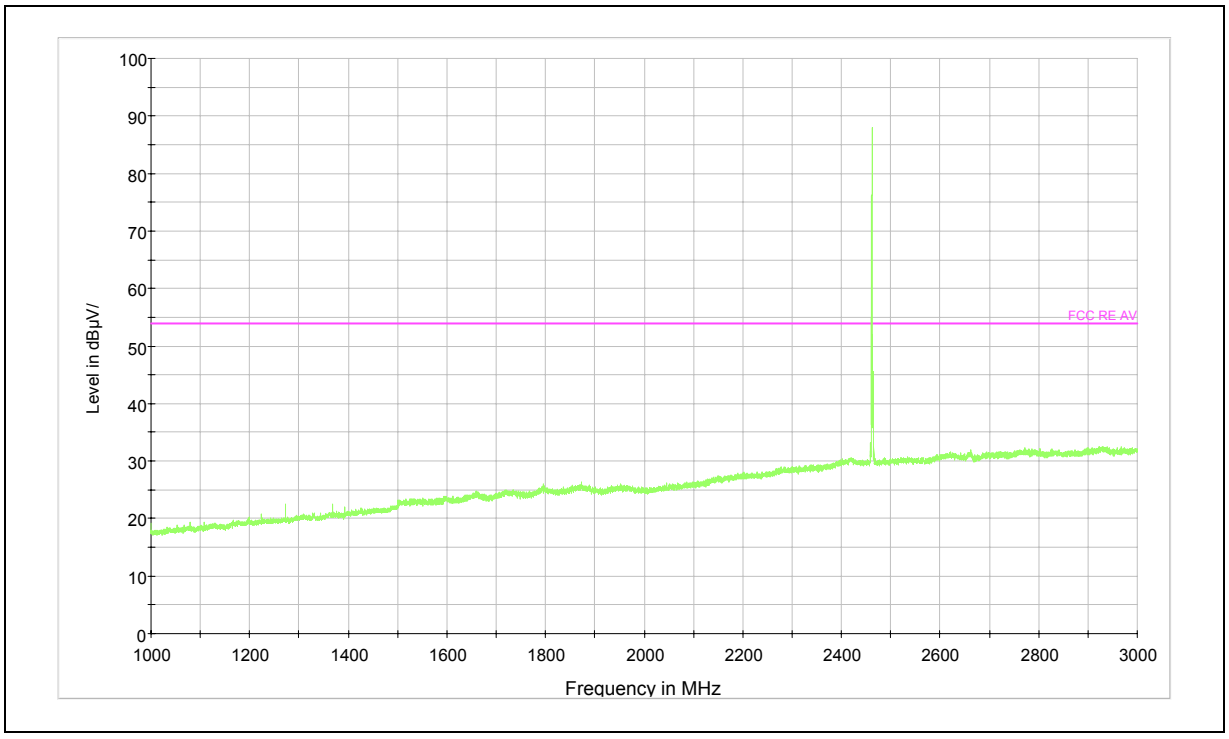
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
30.000000	30.8	100.0	V	0.0	9.2	40.0
40.025000	22.7	100.0	V	45.0	17.3	40.0
100.000000	21.8	100.0	V	45.0	18.2	40.0
125.017500	14.1	100.0	V	1.0	25.9	40.0
154.807500	13.6	100.0	V	1.0	26.4	40.0
300.022500	22.1	100.0	V	1.0	24.9	47.0

Peak



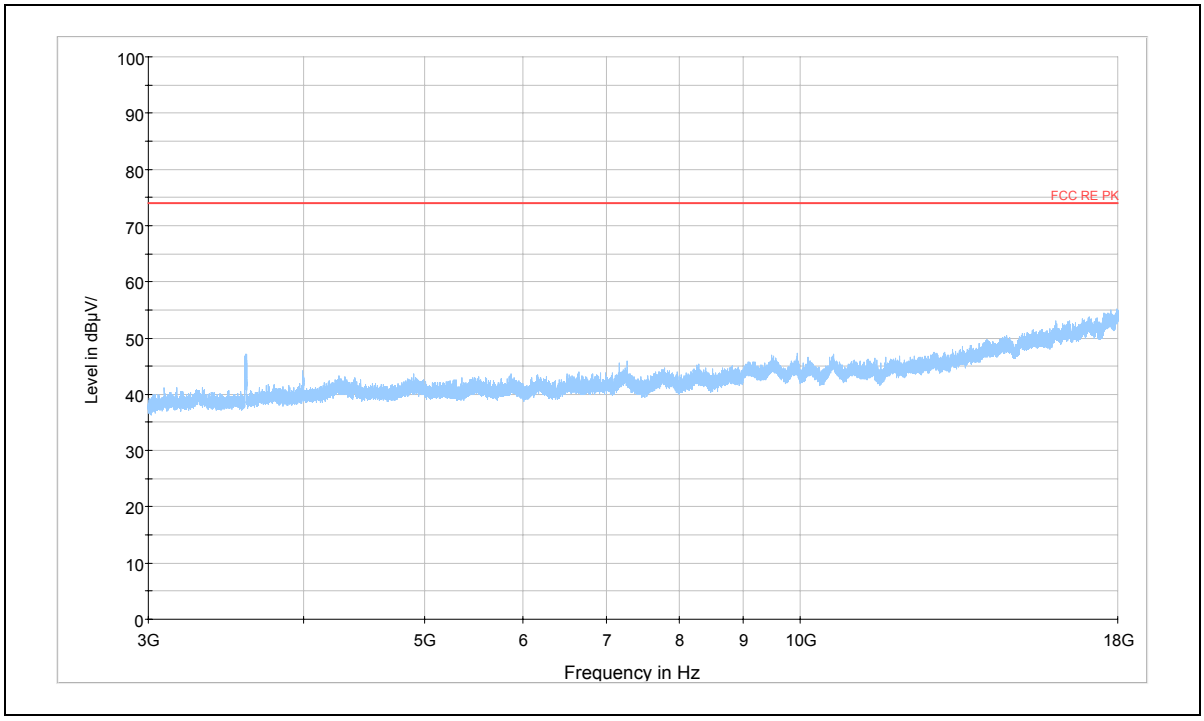
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



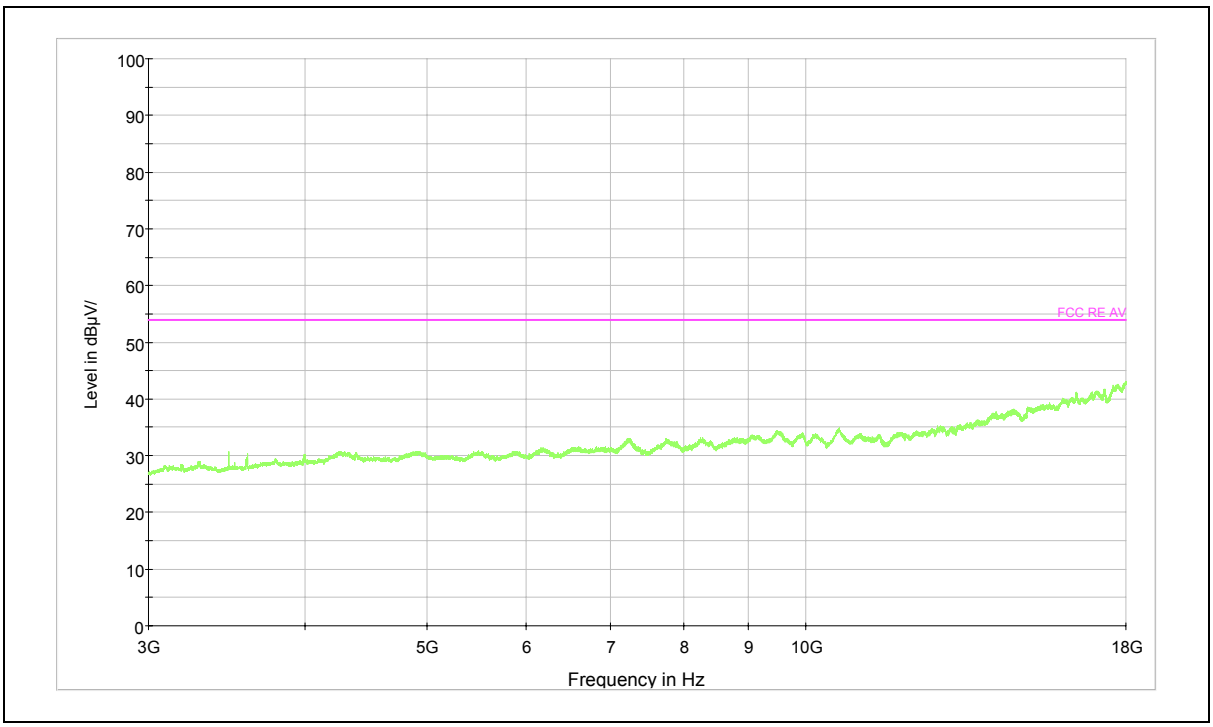
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



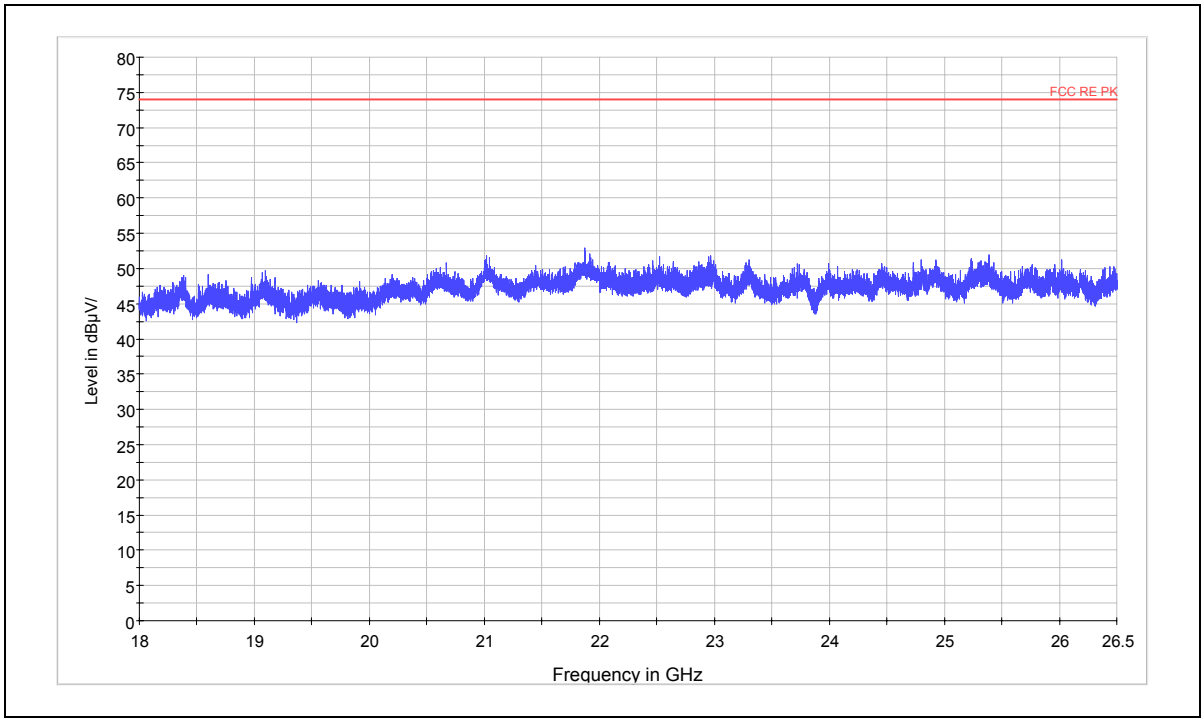
Radiates Emission from 3GHz to 18GHz

Average



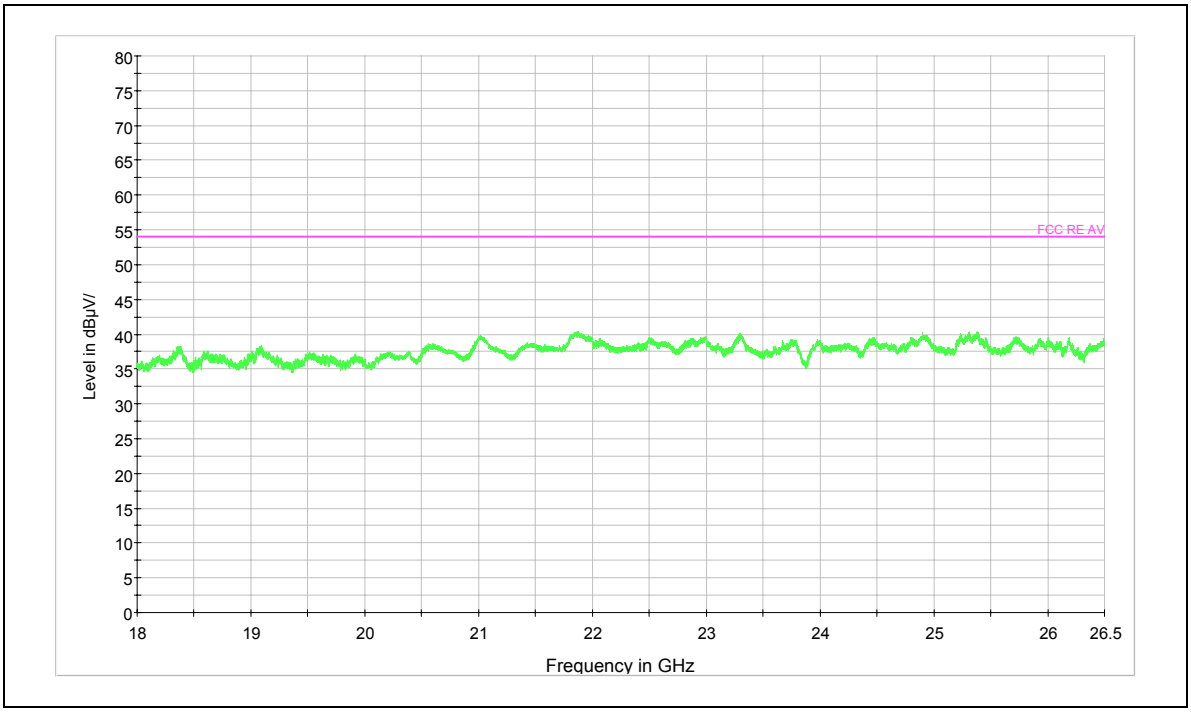
Radiates Emission from 3GHz to 18GHz

Peak



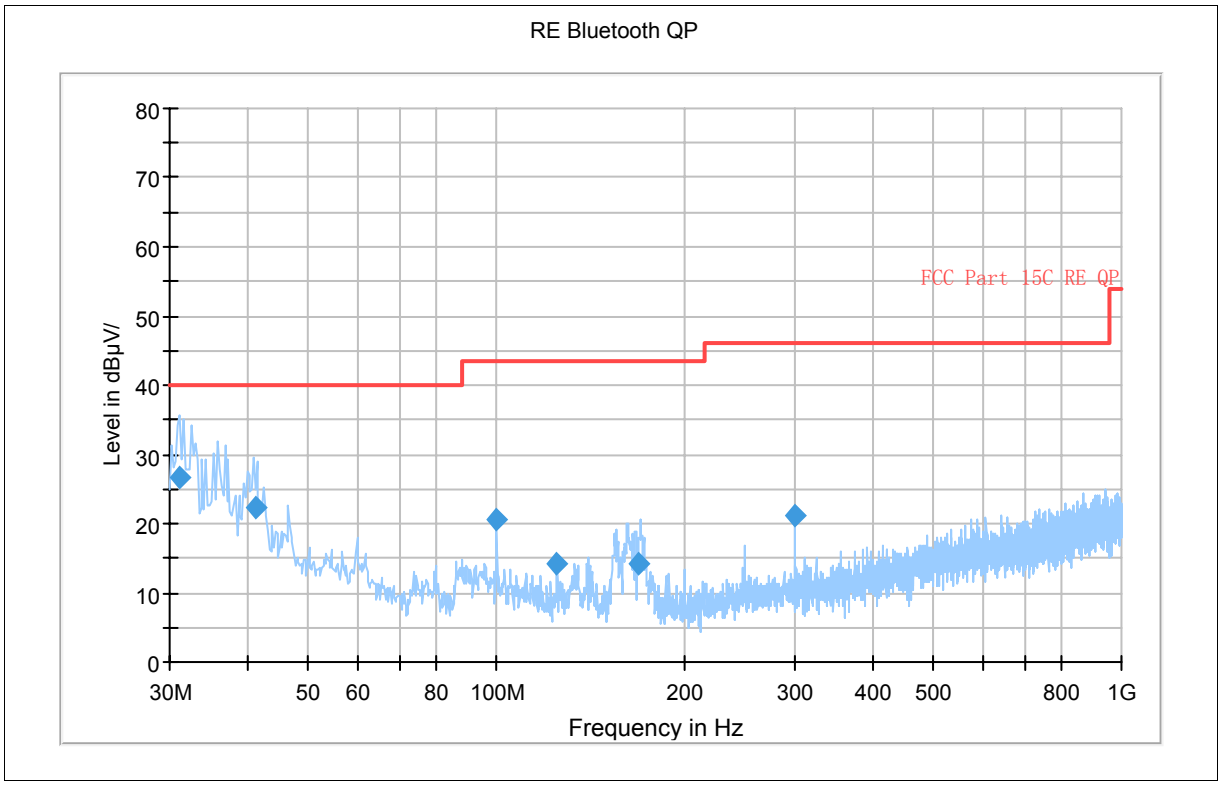
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

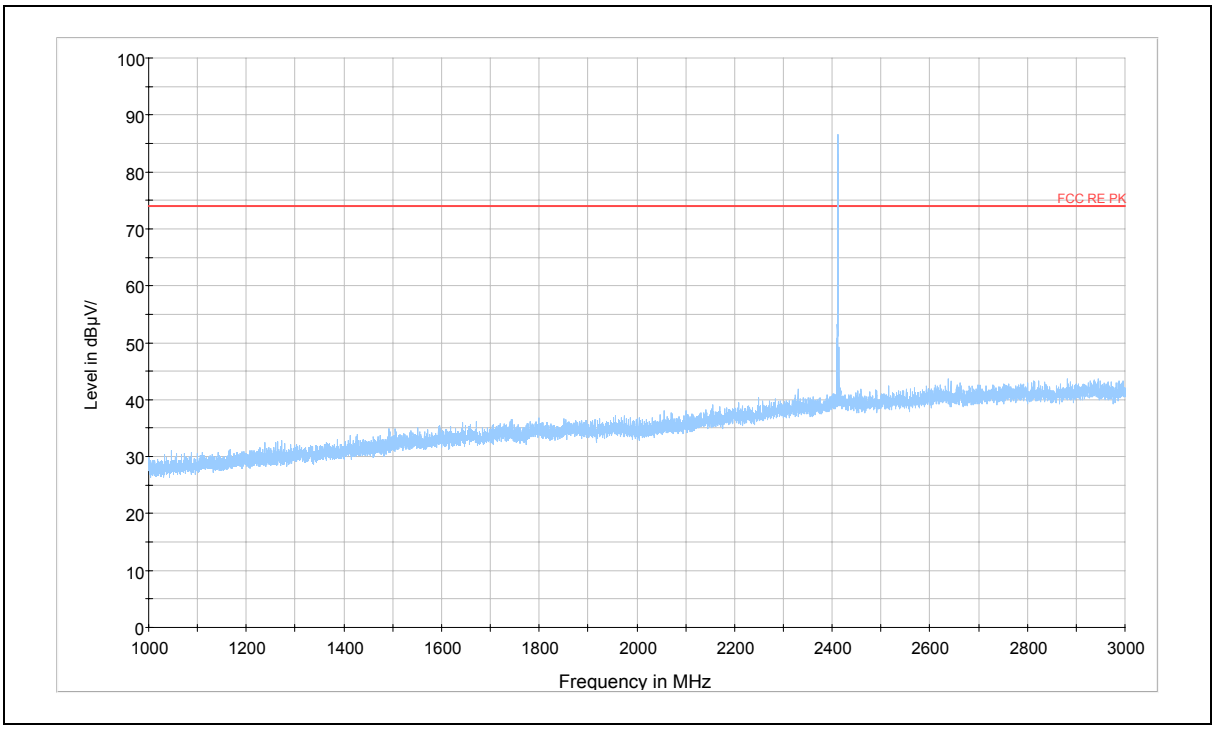
802.11g CH1



Radiates Emission from 30MHz to 1GHz

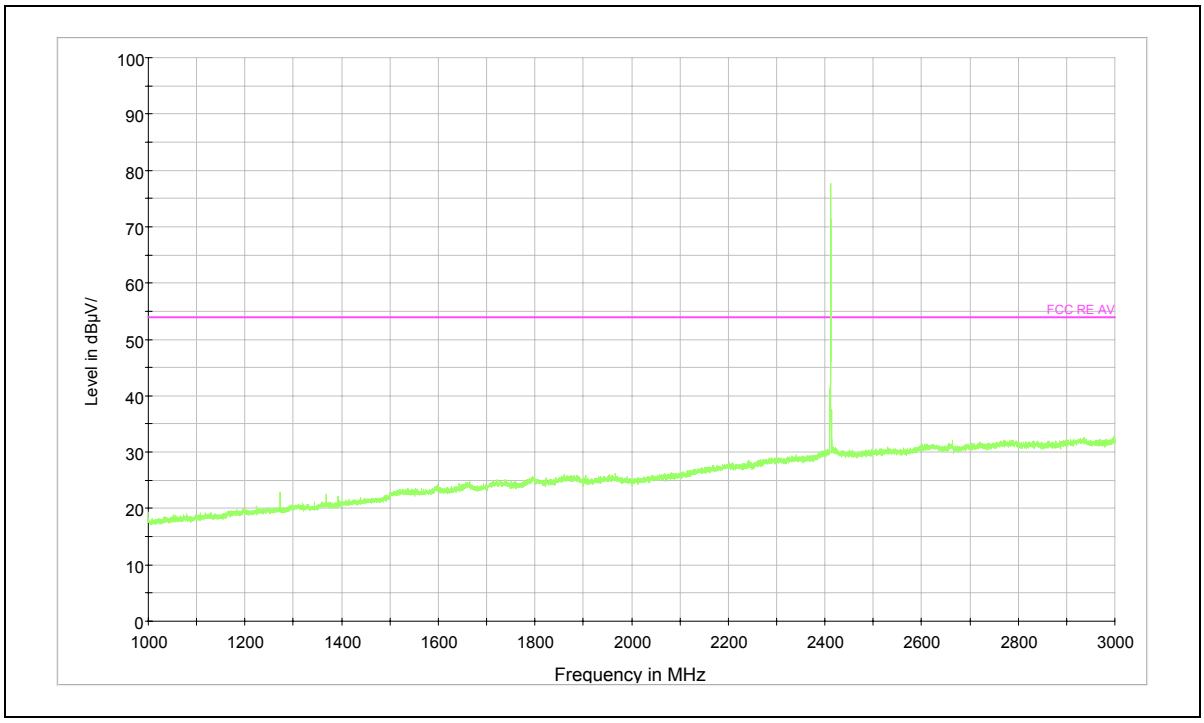
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
31.112500	26.6	100.0	V	1.0	13.4	40.0
41.112500	22.3	100.0	V	40.0	17.7	40.0
100.040000	20.5	100.0	V	40.0	19.5	40.0
125.017500	14.2	100.0	V	2.0	25.8	40.0
169.322500	14.3	100.0	V	3.0	25.7	40.0
300.002500	21.2	100.0	V	3.0	25.8	47.0

Peak



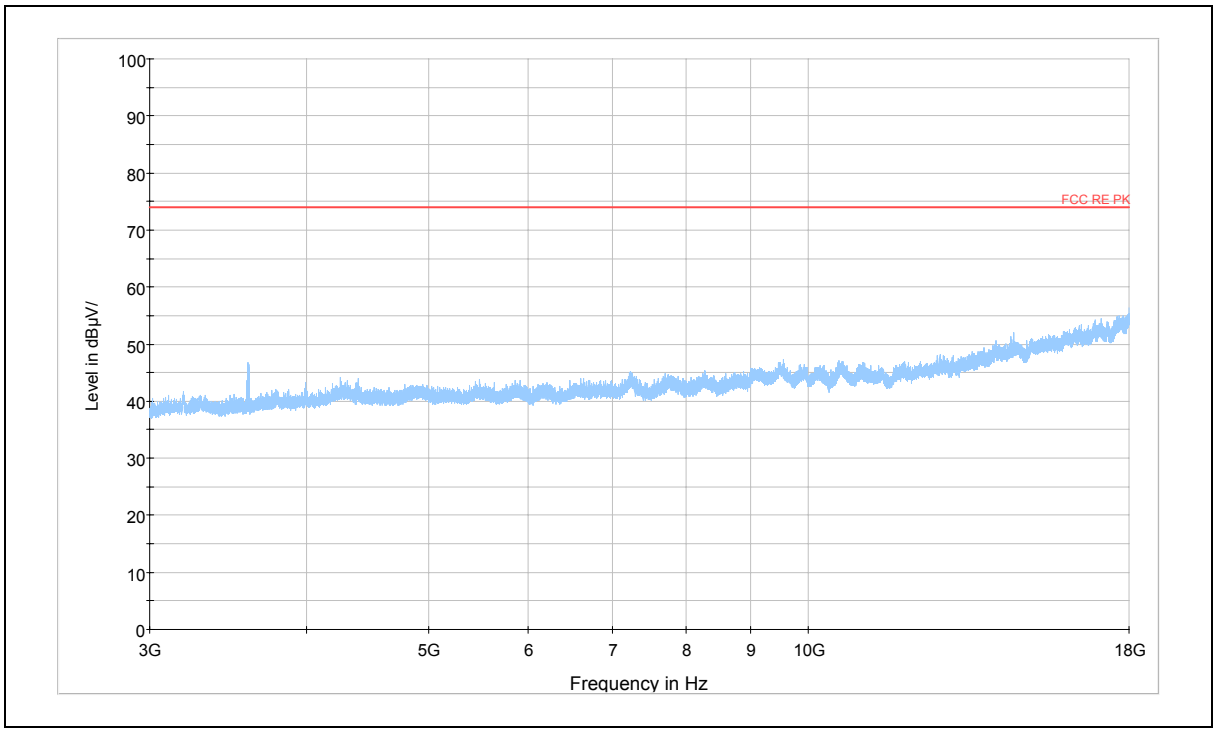
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



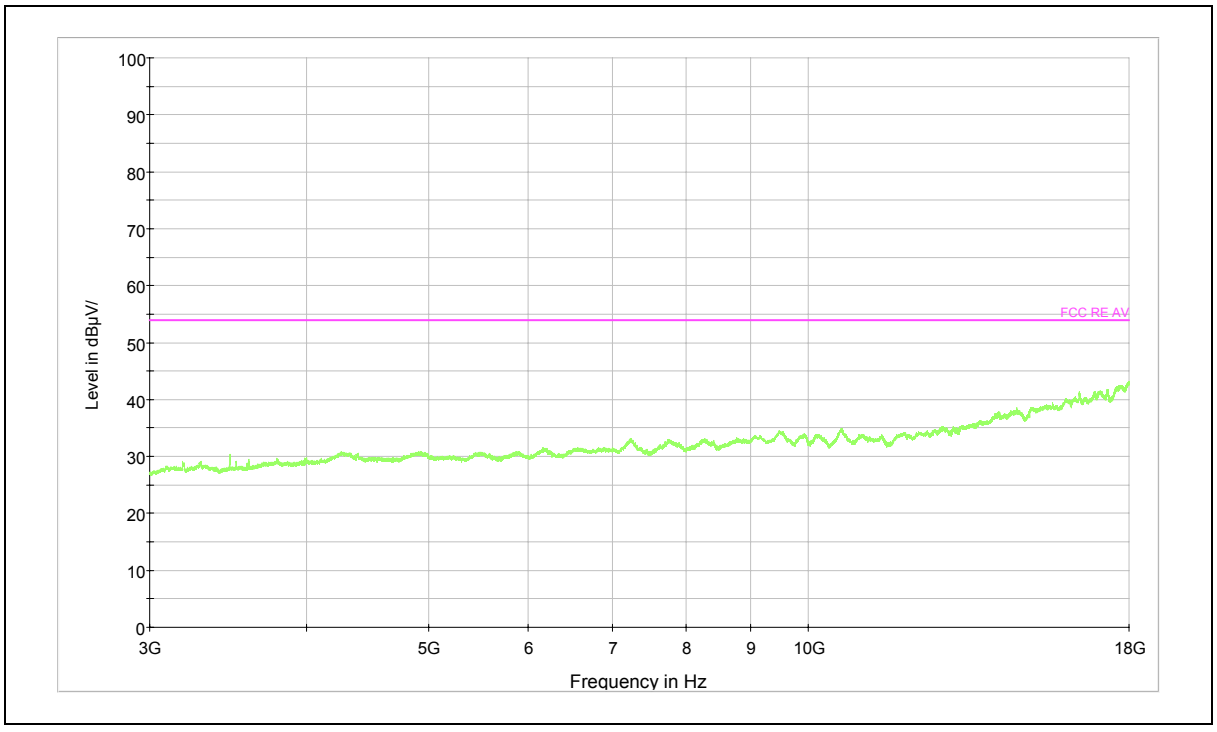
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



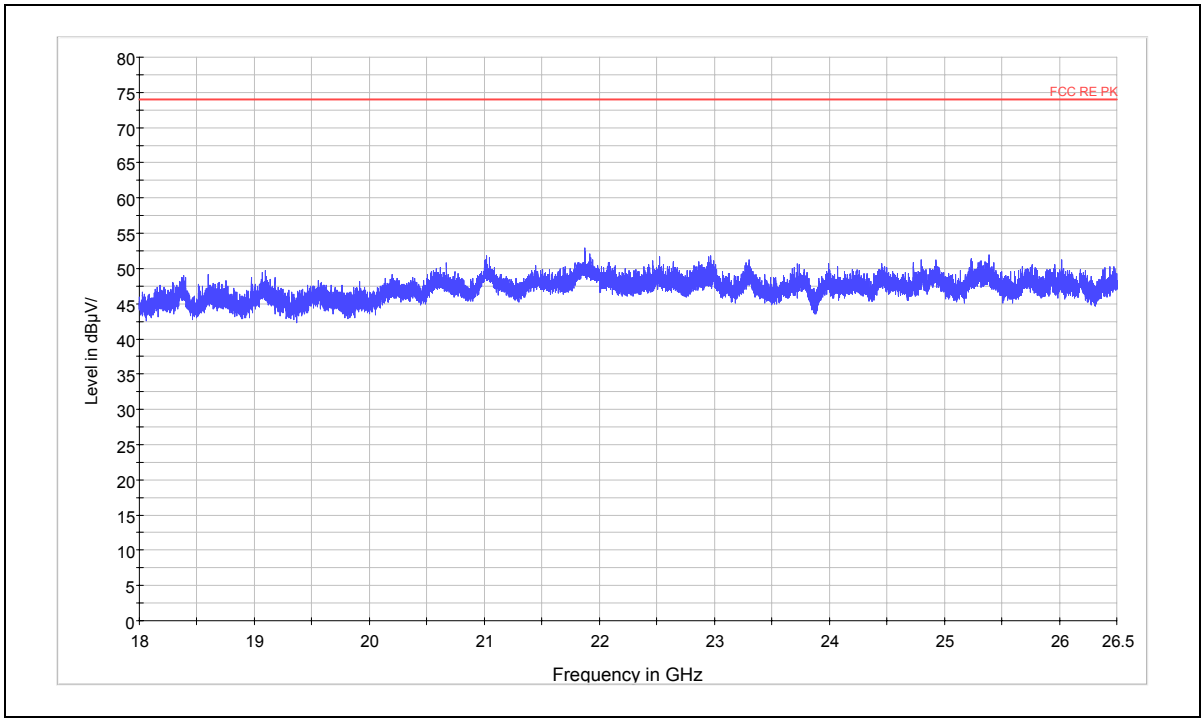
Radiates Emission from 3GHz to 18GHz

Average



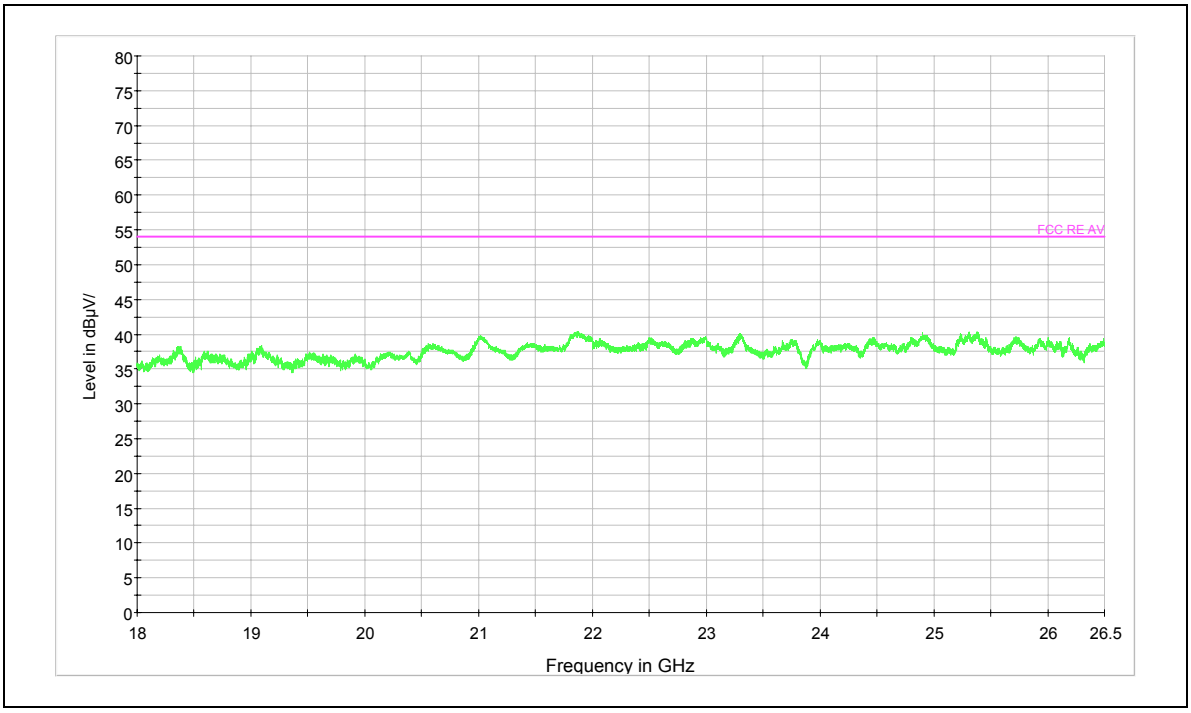
Radiates Emission from 3GHz to 18GHz

Peak



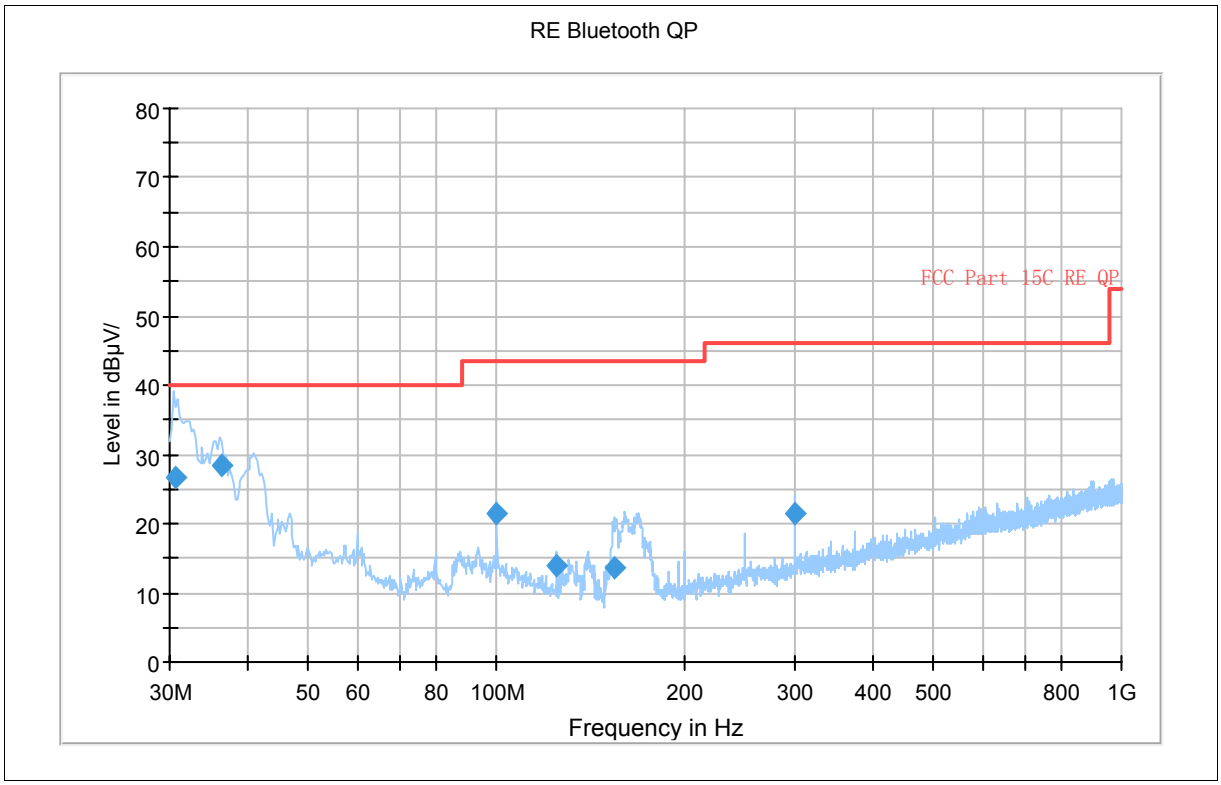
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

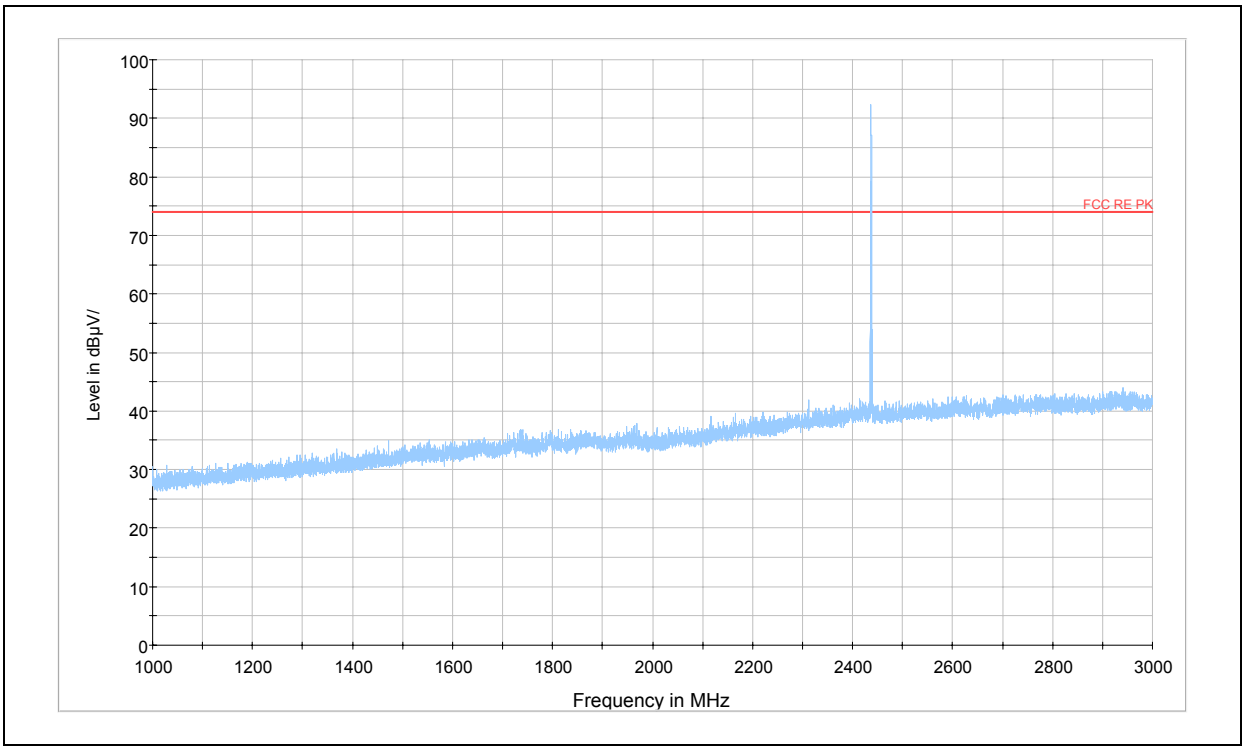
802.11g CH6



Radiates Emission from 30MHz to 1GHz

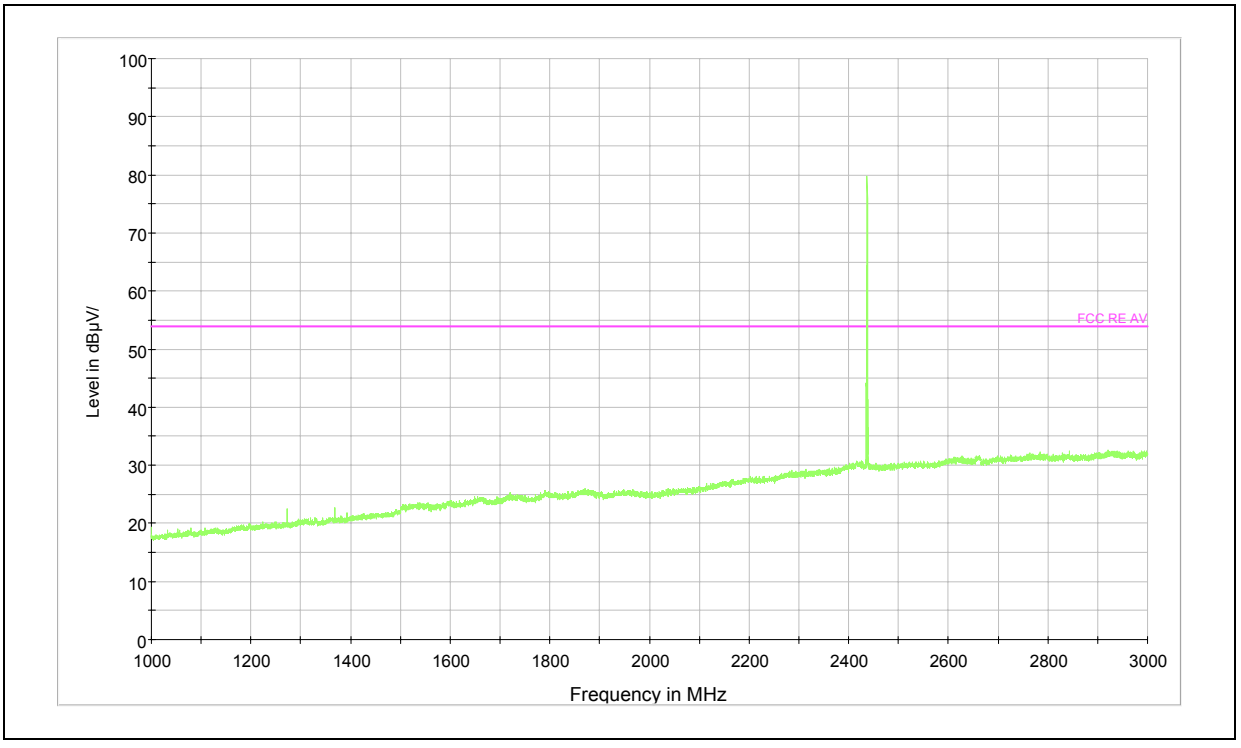
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
30.700000	26.7	100.0	V	3.0	13.3	40.0
36.220000	28.3	100.0	V	48.0	11.7	40.0
99.990000	21.5	100.0	V	41.0	18.5	40.0
125.017500	13.8	100.0	V	5.0	26.2	40.0
154.952500	13.5	100.0	V	0.0	26.5	40.0
300.002500	21.5	100.0	V	0.0	25.5	47.0

Peak



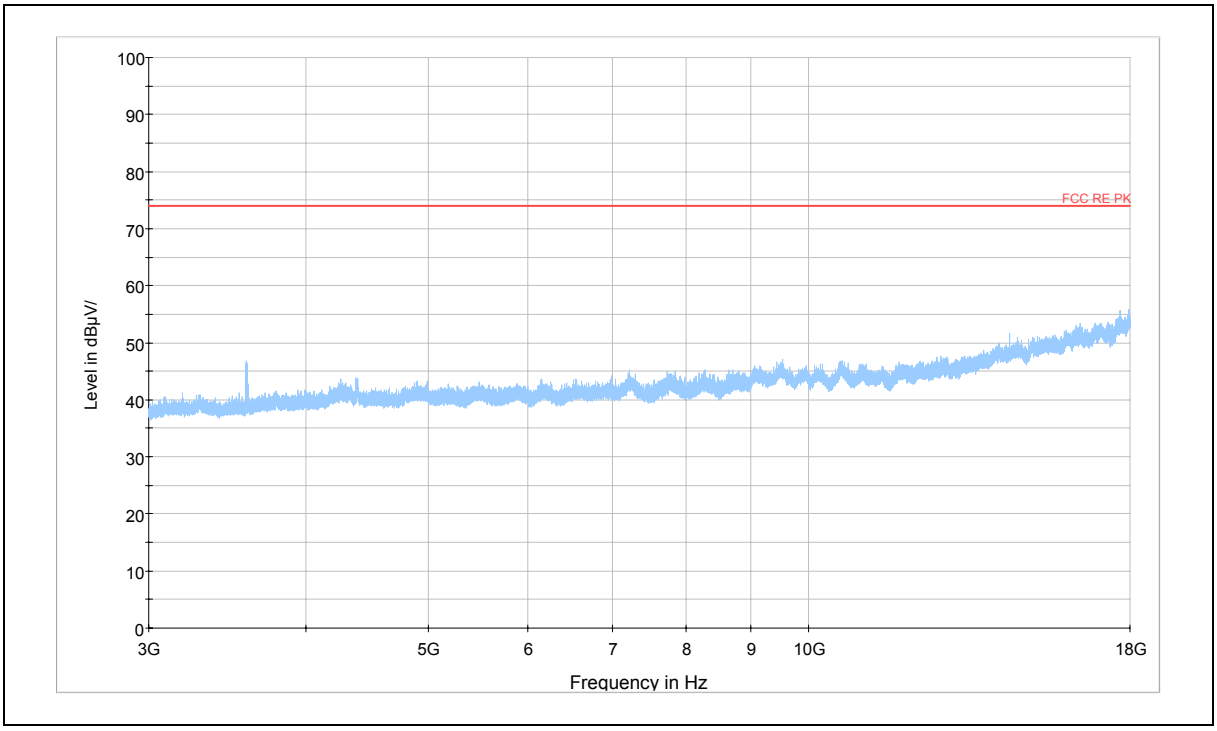
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



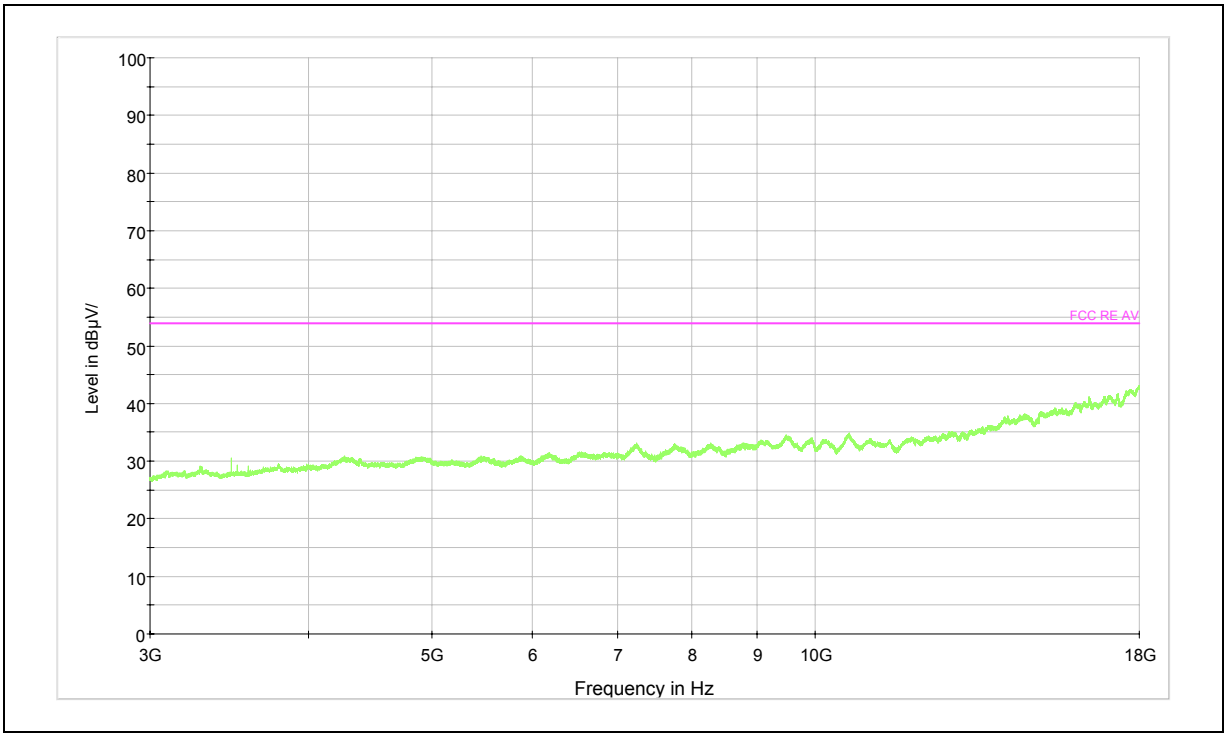
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



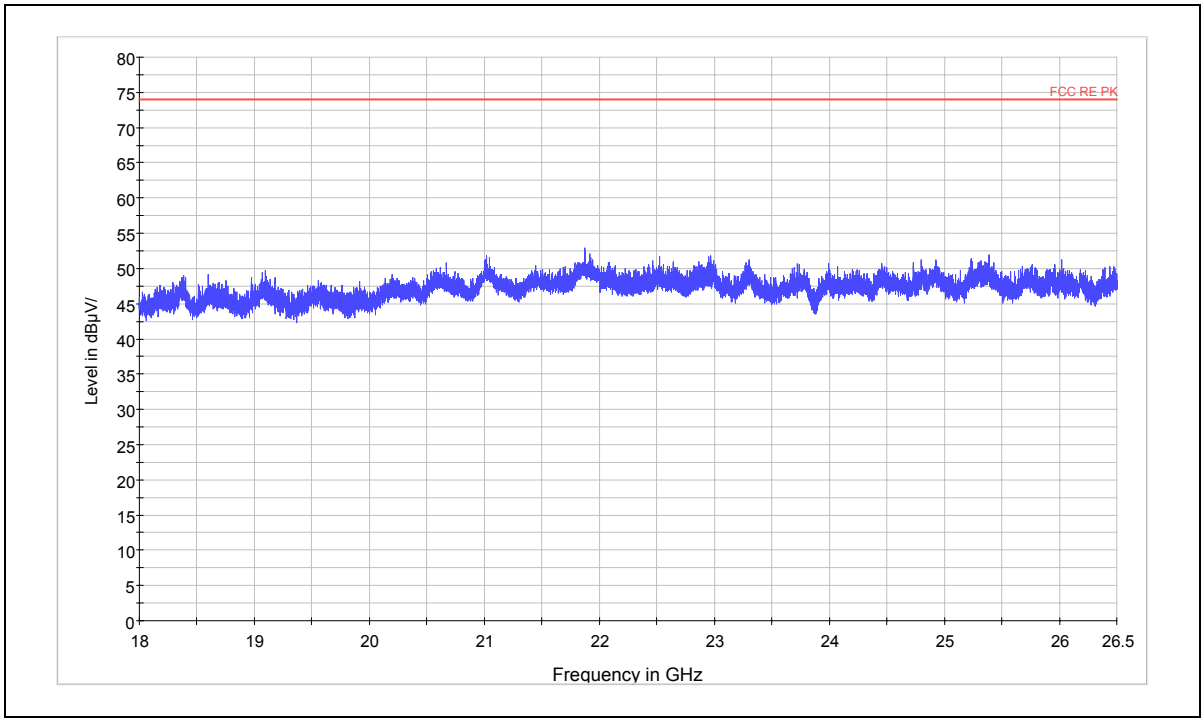
Radiates Emission from 3GHz to 18GHz

Average



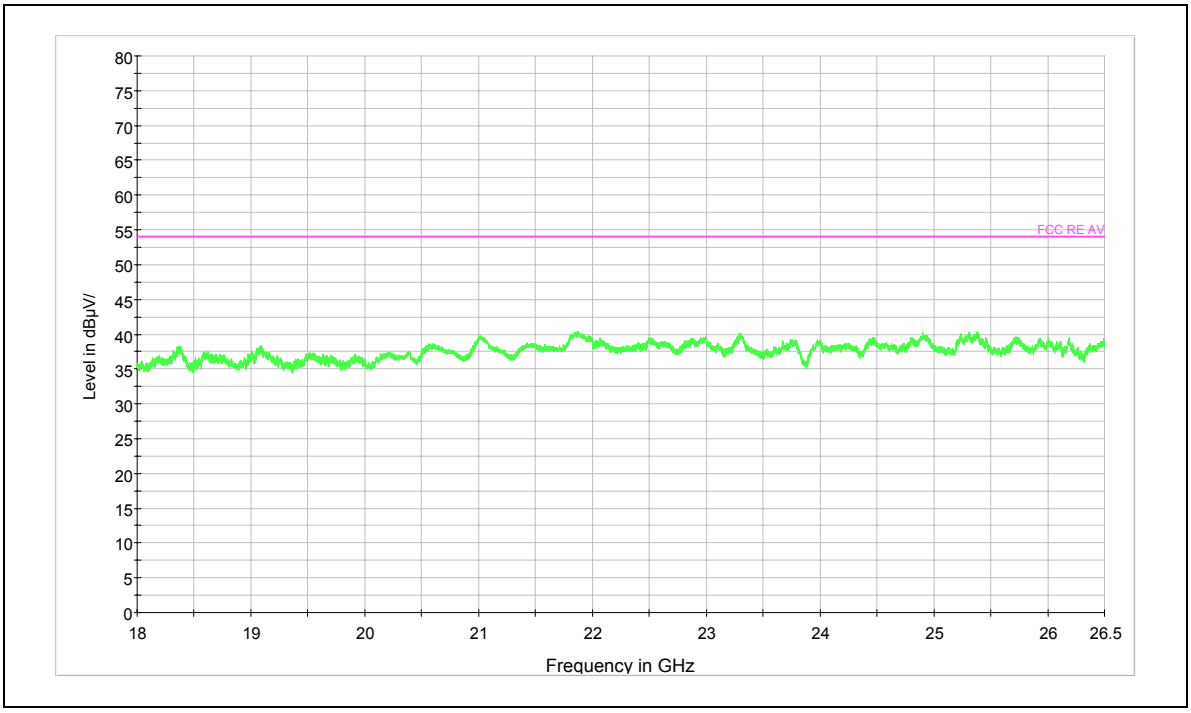
Radiates Emission from 3GHz to 18GHz

Peak



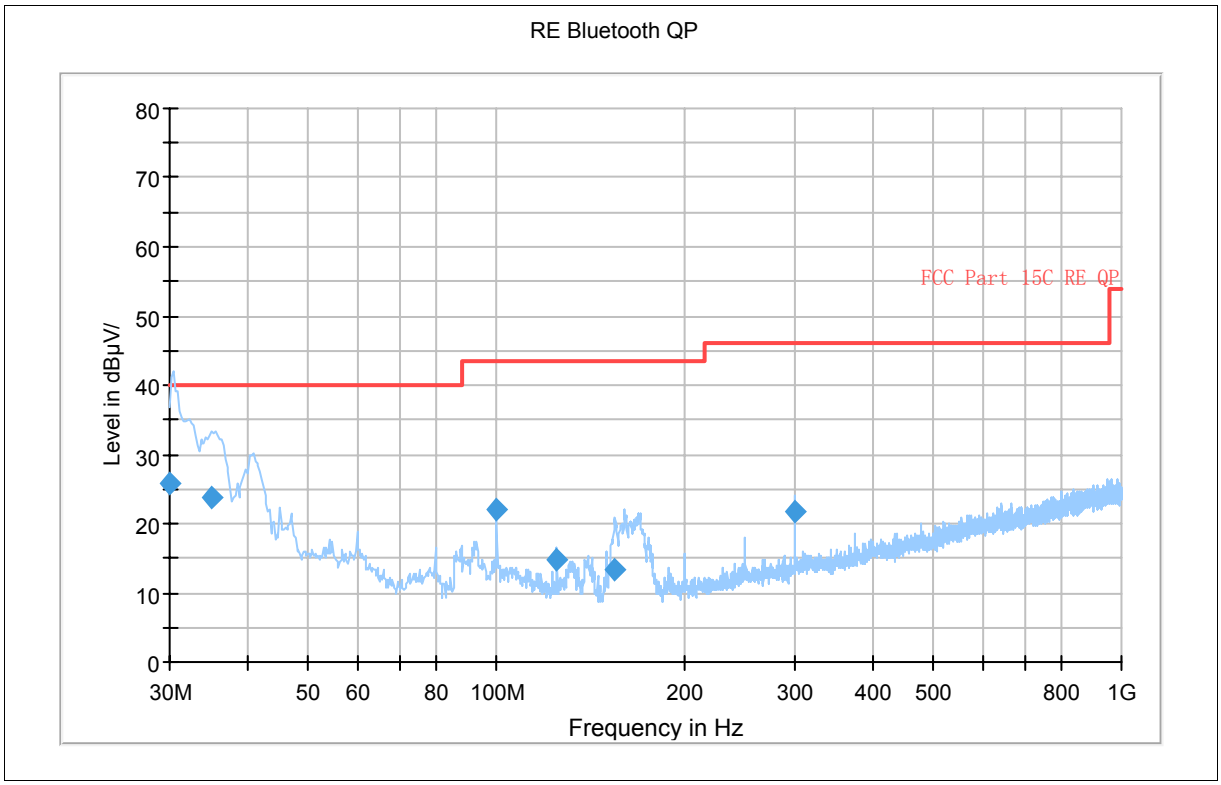
Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

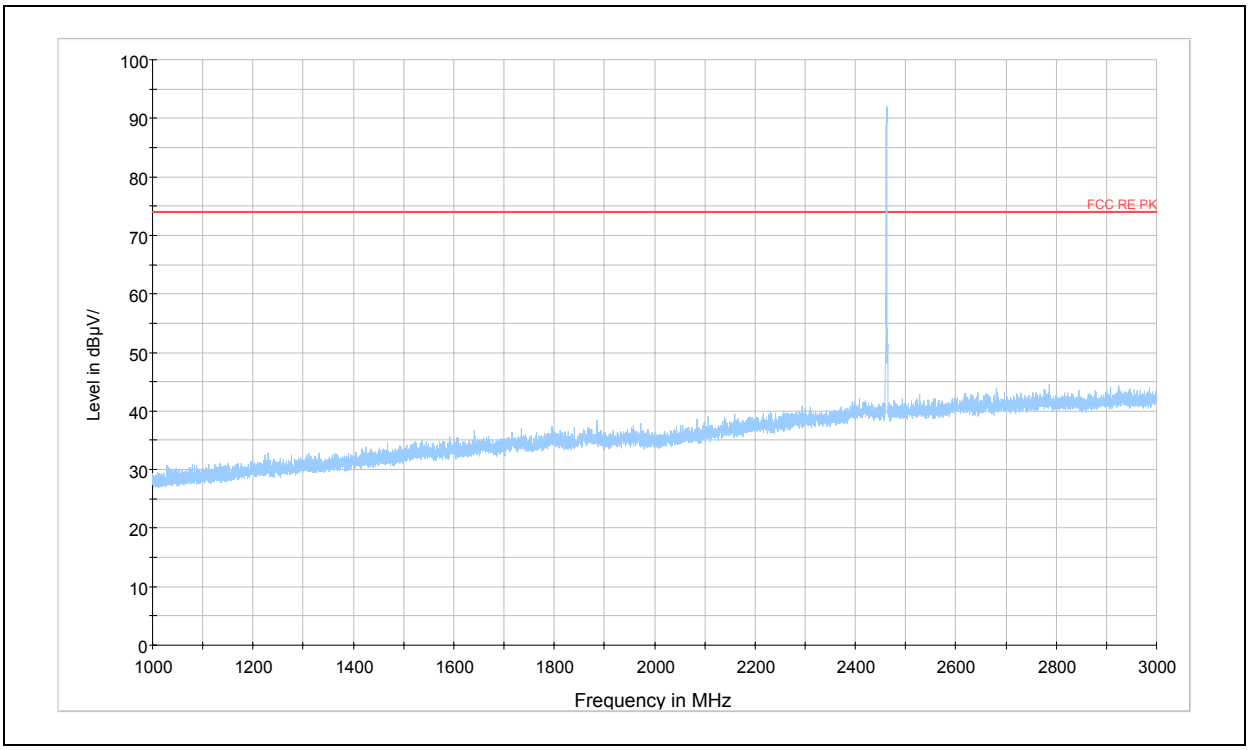
802.11g CH11



Radiates Emission from 30MHz to 1GHz

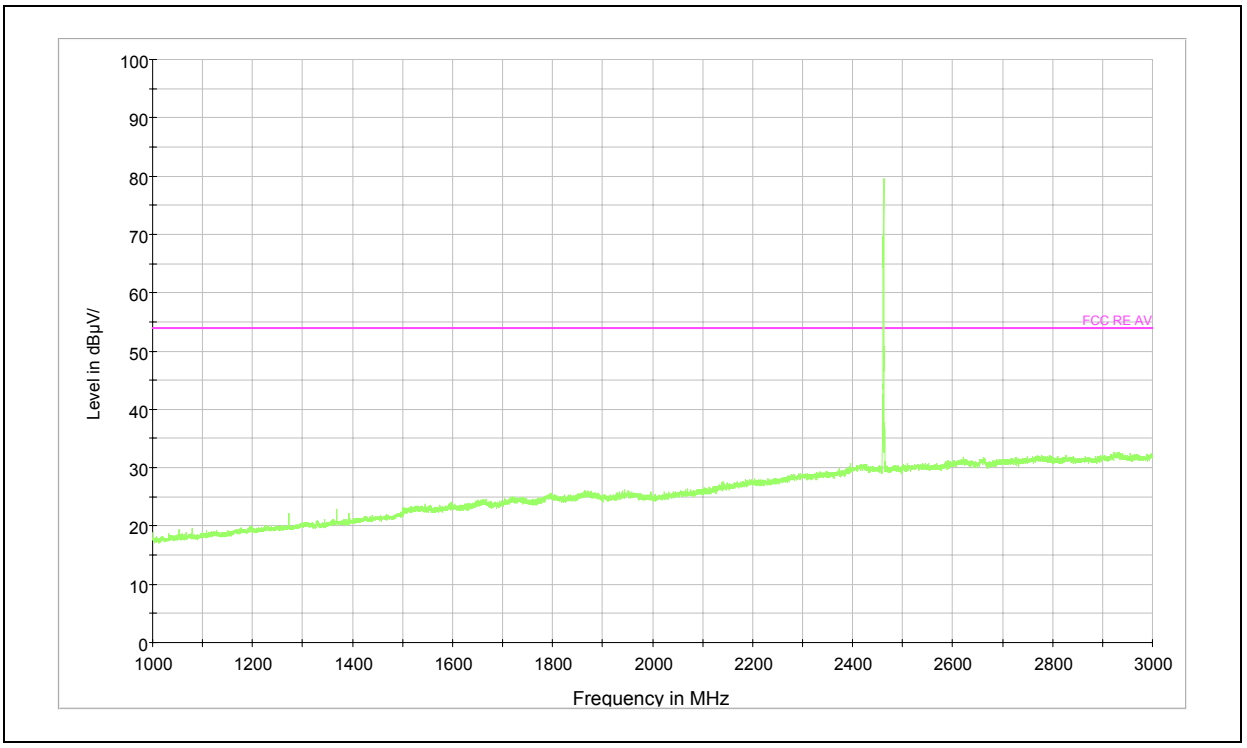
Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBuV/m)
30.000000	25.9	100.0	V	9.0	14.1	40.0
35.127500	23.7	121.0	V	0.0	16.3	40.0
99.990000	21.9	100.0	V	38.0	18.1	40.0
125.017500	14.8	100.0	V	0.0	25.2	40.0
154.787500	13.5	100.0	V	0.0	26.5	40.0
300.002500	21.7	100.0	V	0.0	25.3	47.0

Peak



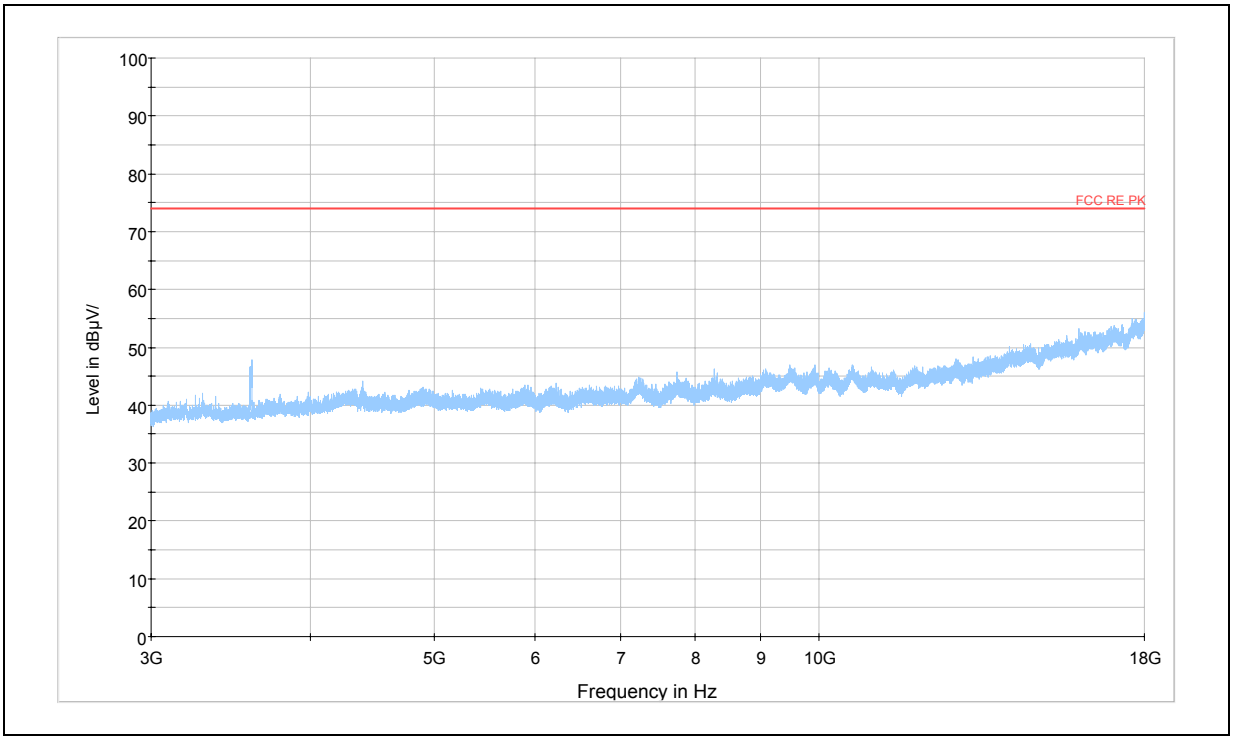
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Average



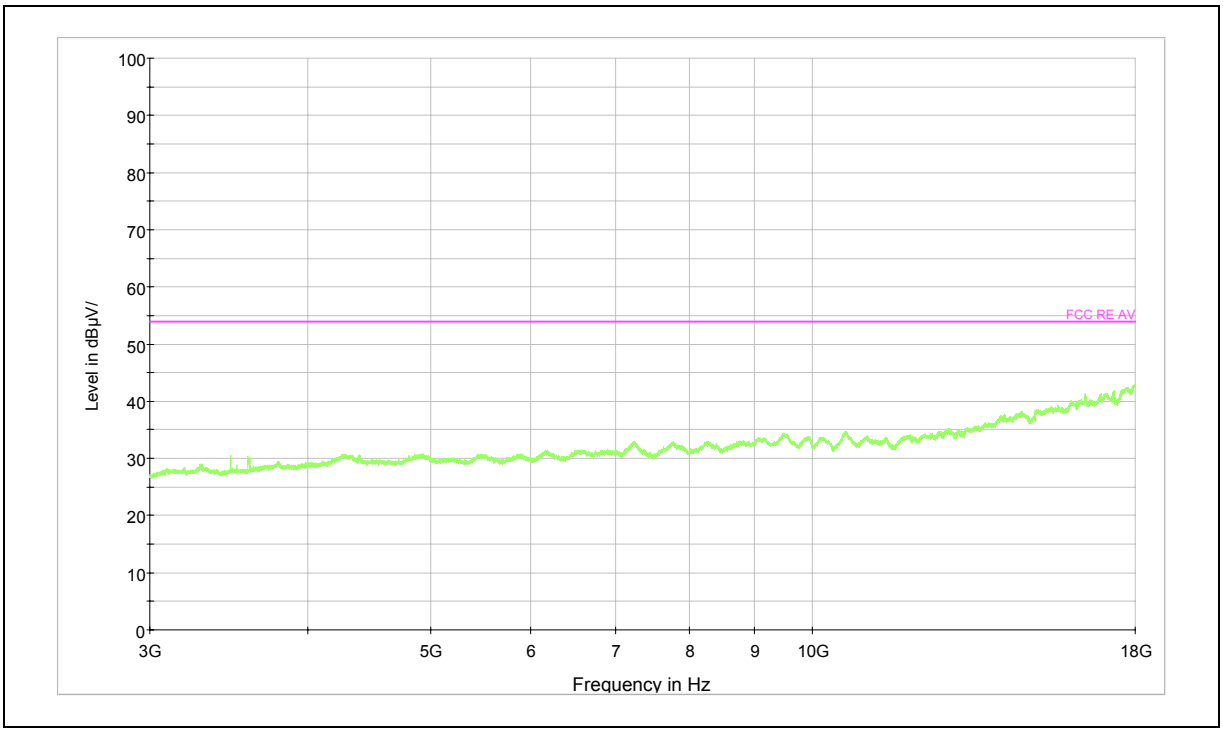
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Peak



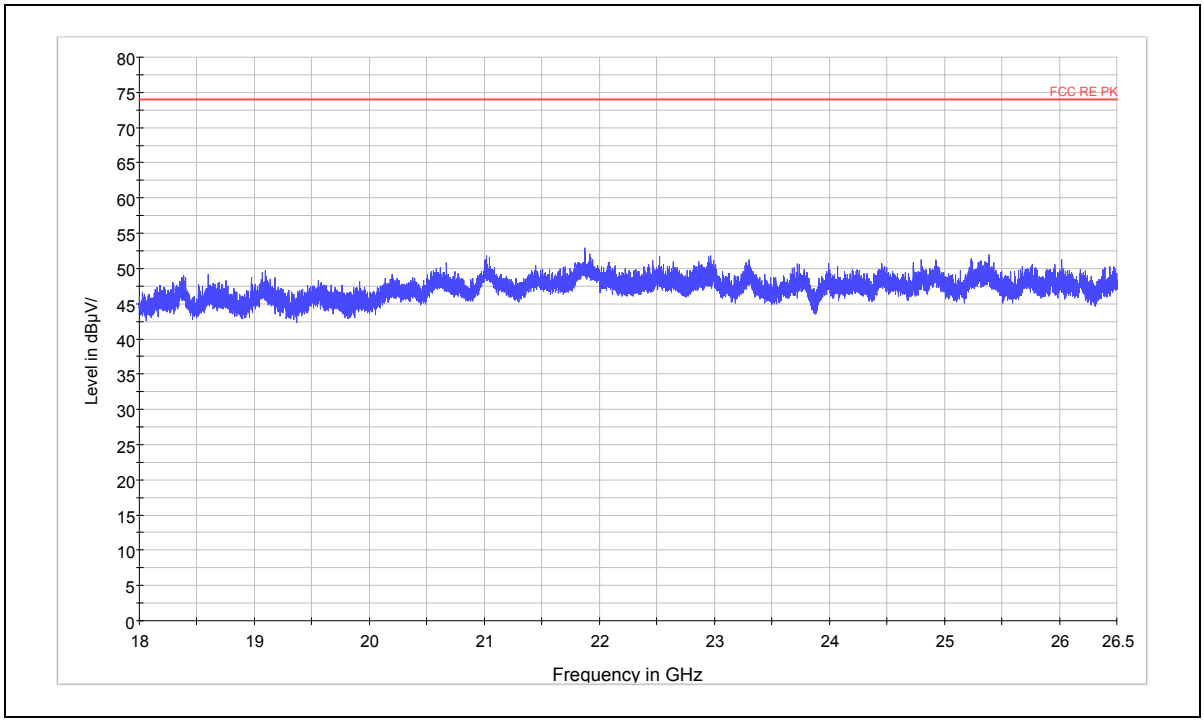
Radiates Emission from 3GHz to 18GHz

Average



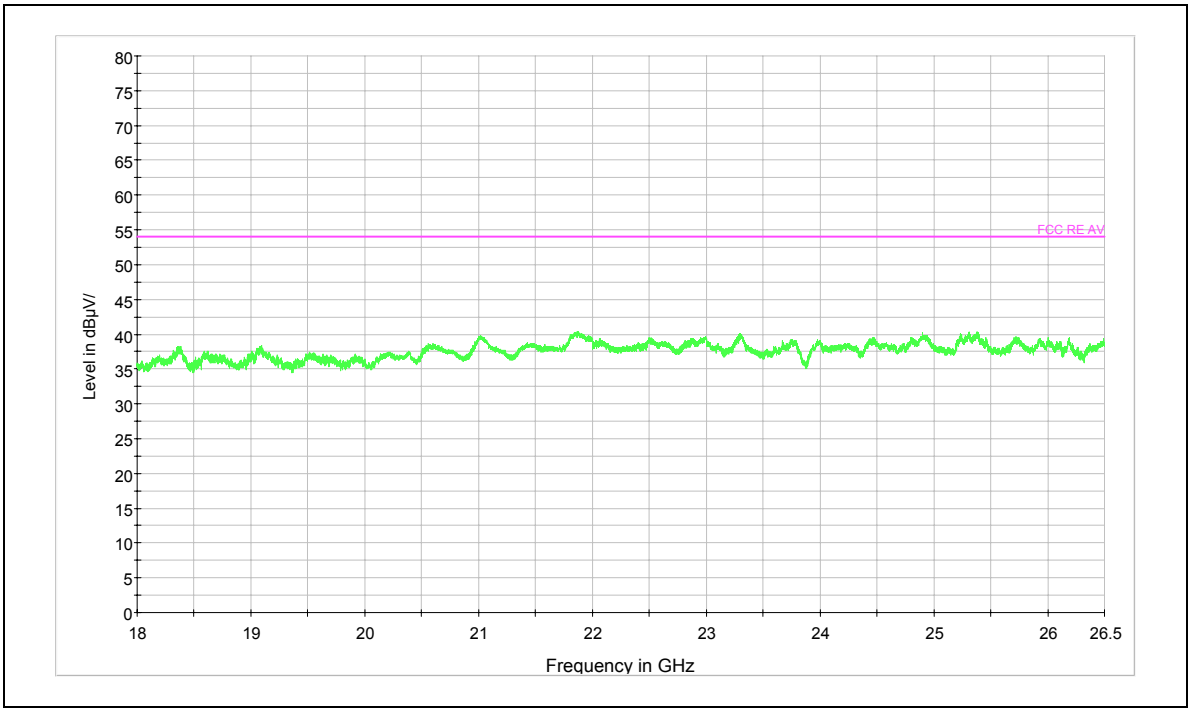
Radiates Emission from 3GHz to 18GHz

Peak



Radiates Emission from 18GHz to 26.5GHz

Average



Radiates Emission from 18GHz to 26.5GHz

2.9. Conducted Emissions

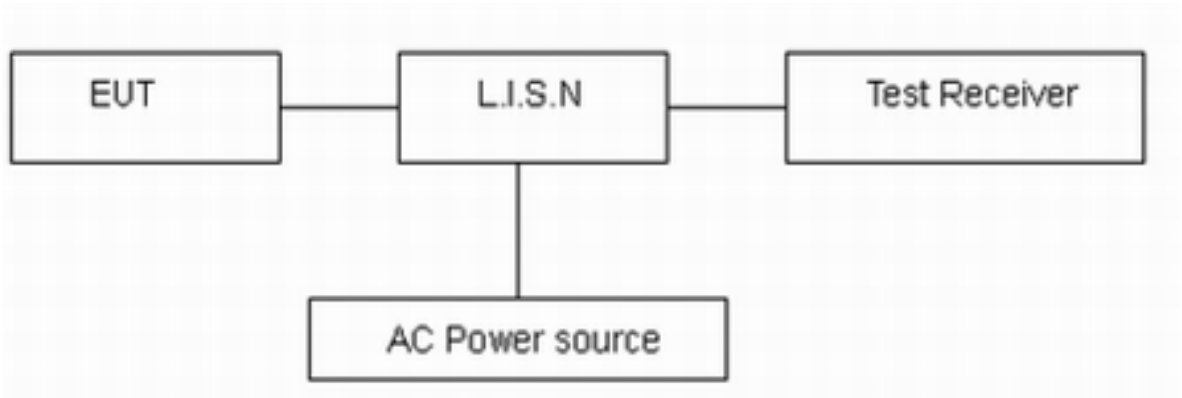
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSIC63.4-2003.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz,VBW is set to 30kHz The measurement result should include both L line and N line.
The test is in transmit mode.

Test setup



Note: AC Power source is used to change the voltage from 220V/50Hz to 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	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.		

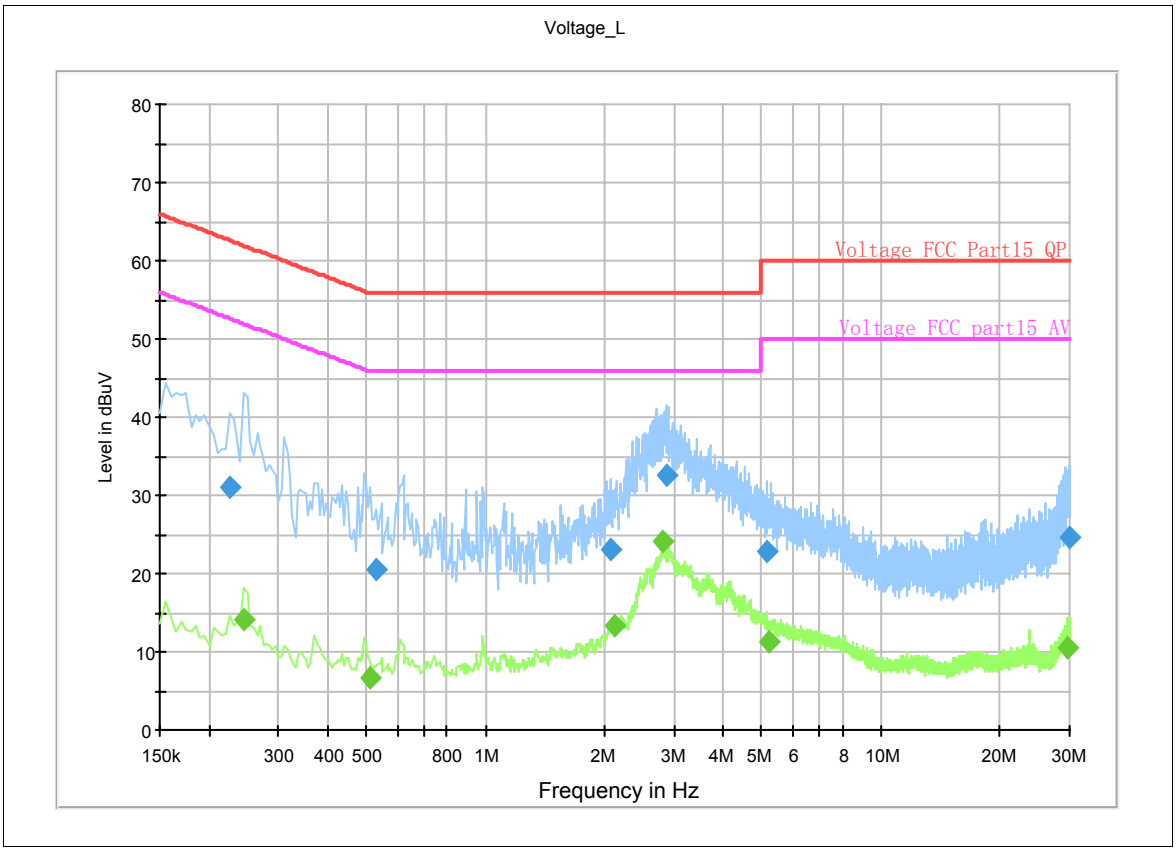
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor *k* = 1.96. U= 2.69 dB.

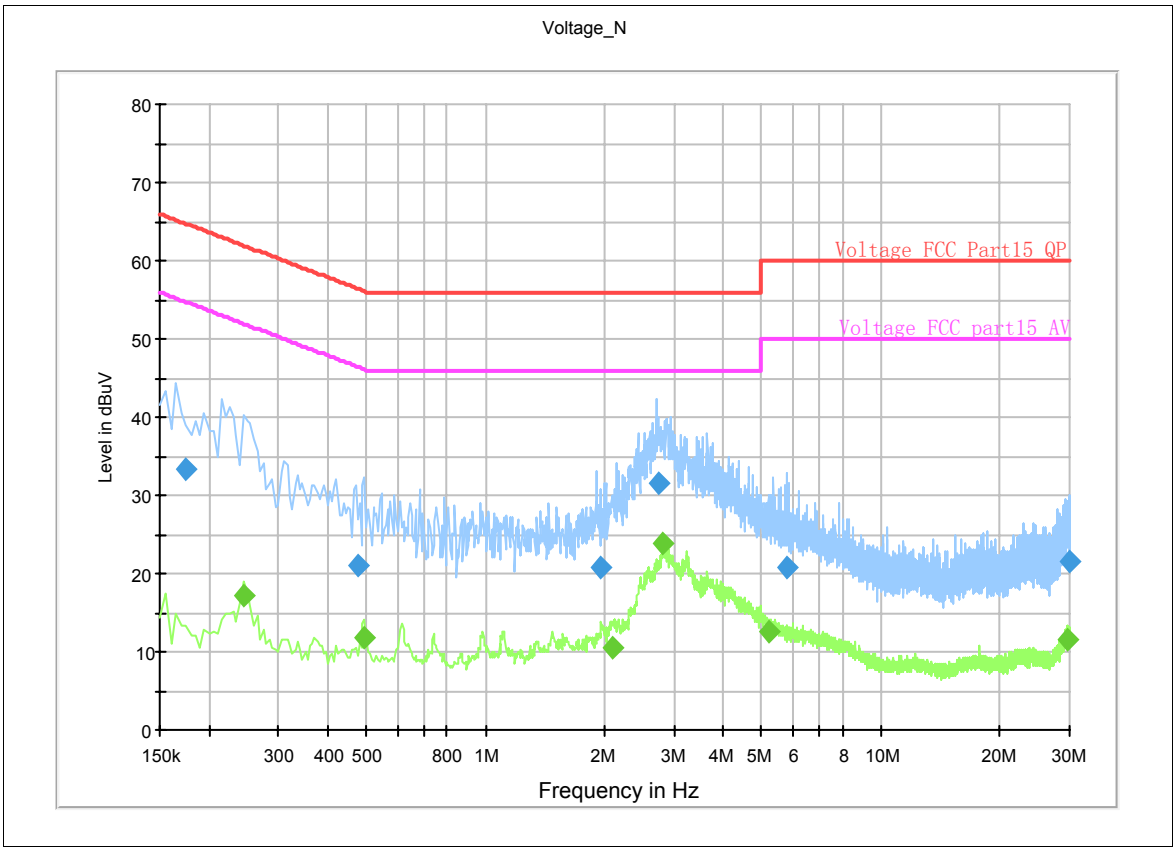
Test Results:

EUT with Black Earphone

802.11b CH1



L Line

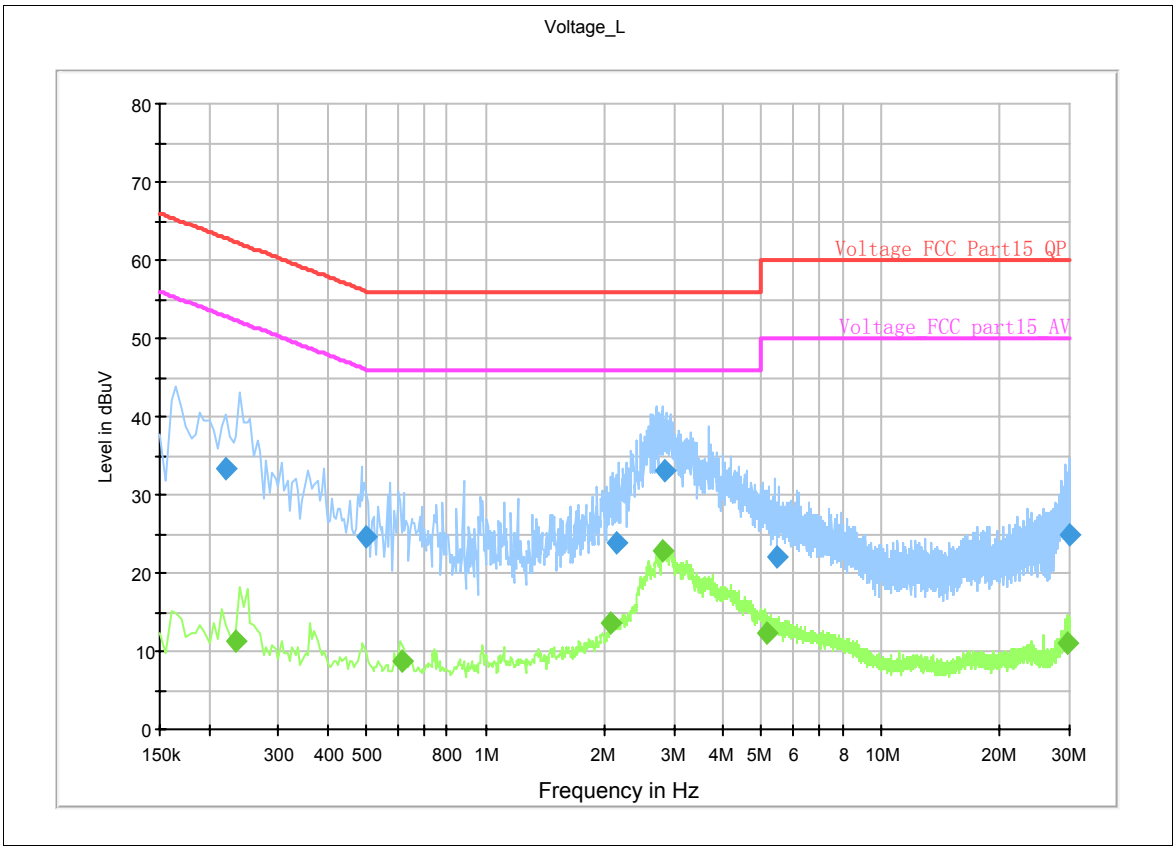


N Line

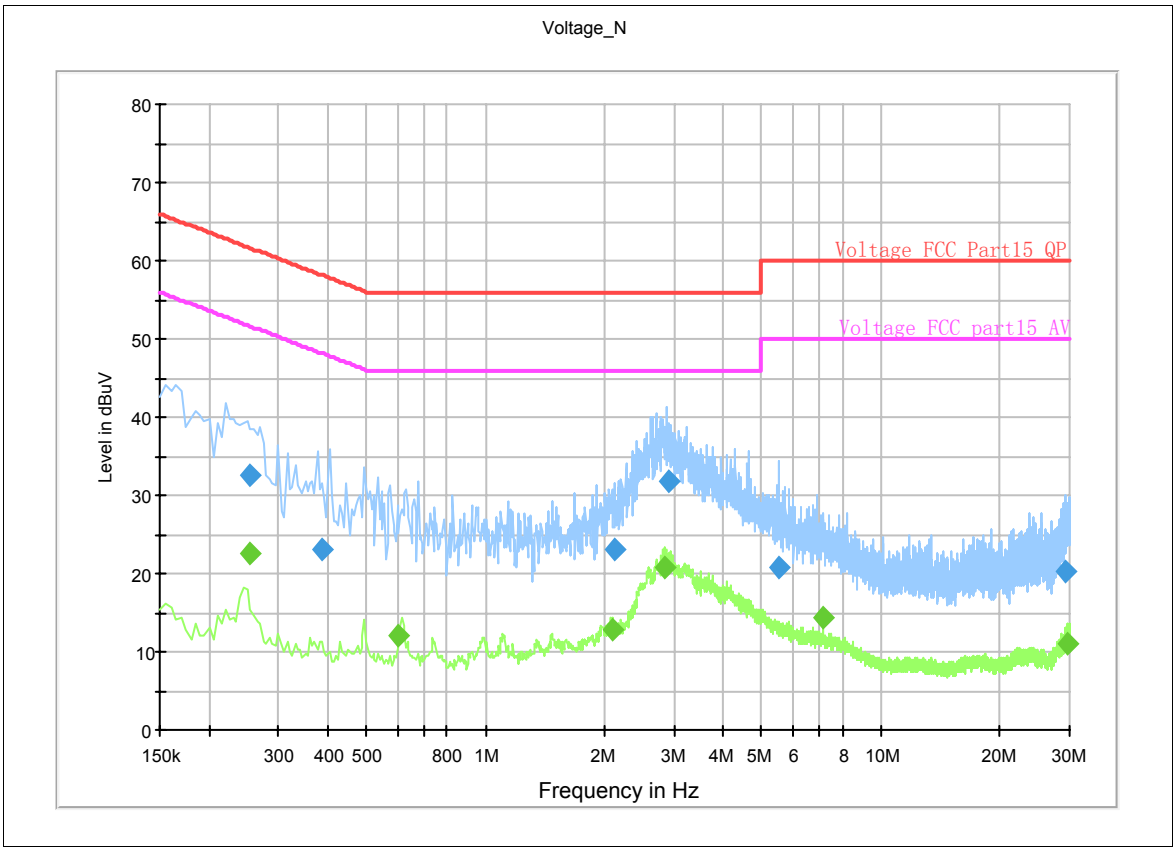
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.495	Average	N	11.7	46.1	34.4
0.51	Average	L	6.7	46	39.3
2.105	Average	N	10.6	46	35.4
5.195	Average	L	11.3	50	38.7
29.76	Average	N	11.6	50	38.4
29.79	Average	L	10.5	50	39.6
0.475	Quasi-peak	N	21	56.4	35.4
0.53	Quasi-peak	L	20.4	56	35.6
1.945	Quasi-peak	N	20.8	56	35.2
5.145	Quasi-peak	L	22.9	60	37.1
5.76	Quasi-peak	N	20.9	60	39.1
29.84	Quasi-peak	N	21.4	60	38.6

802.11b CH6



L Line

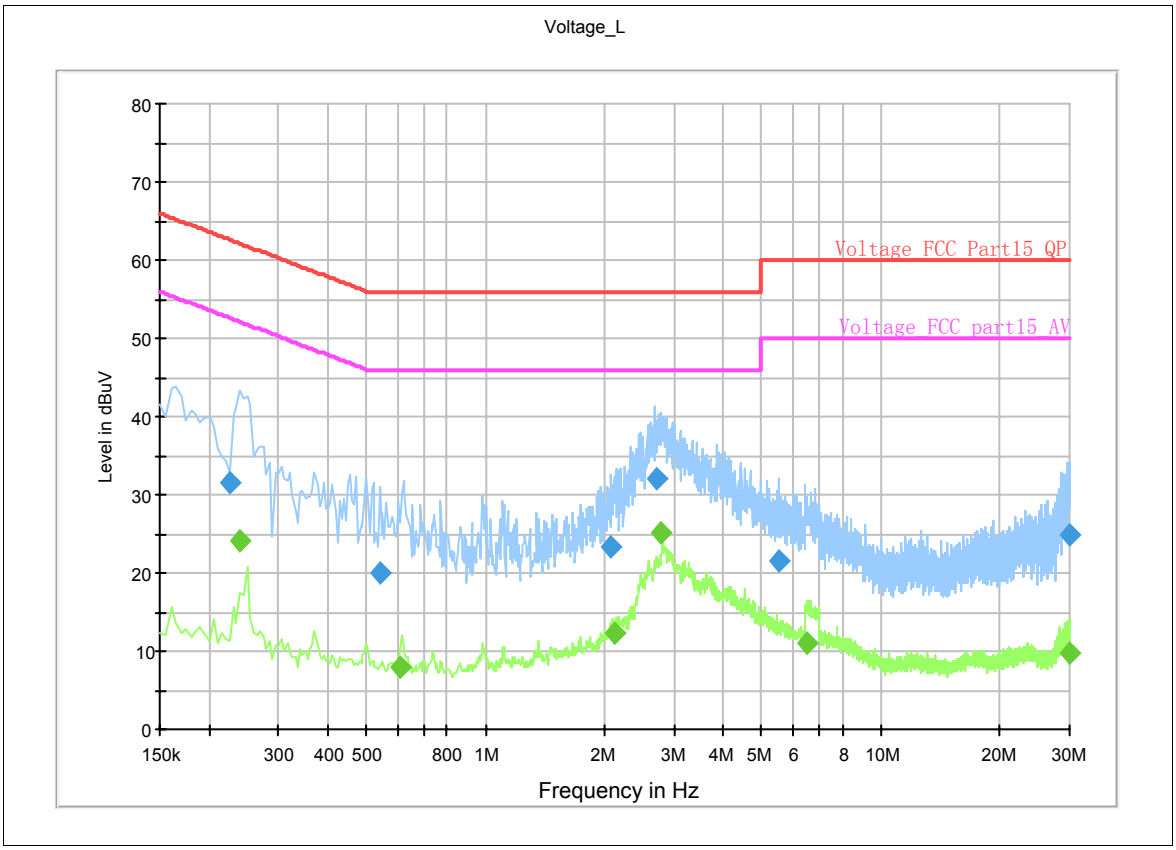


N Line

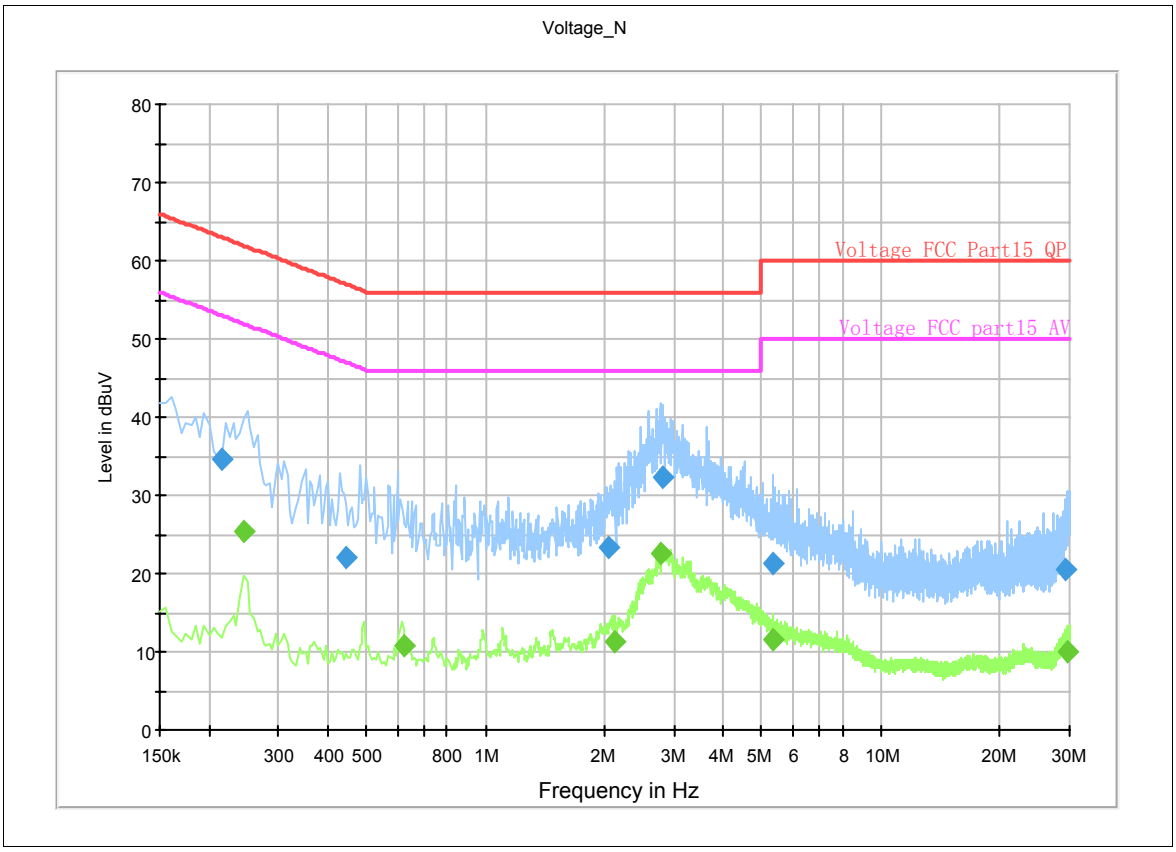
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.235	Average	L	11.4	52.3	40.9
0.6	Average	N	12	46	34
0.615	Average	L	8.8	46	37.2
5.175	Average	L	12.4	50	37.6
29.555	Average	L	11	50	39
29.575	Average	N	11	50	39
0.385	Quasi-peak	N	23.1	58.2	35.1
2.12	Quasi-peak	N	23.1	56	32.9
2.15	Quasi-peak	L	23.8	56	32.2
5.455	Quasi-peak	L	22	60	38
5.51	Quasi-peak	N	20.7	60	39.3
29.255	Quasi-peak	N	20.4	60	39.6

802.11b CH11



L Line

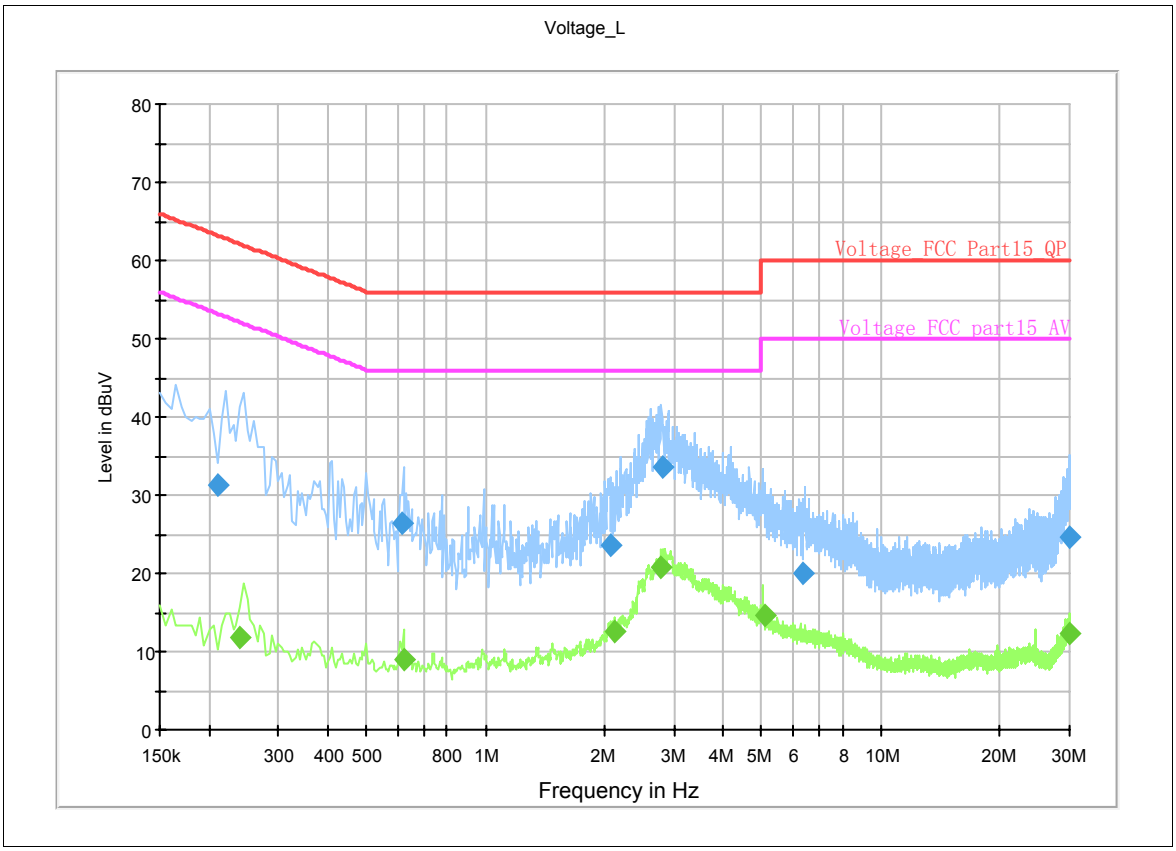


N Line

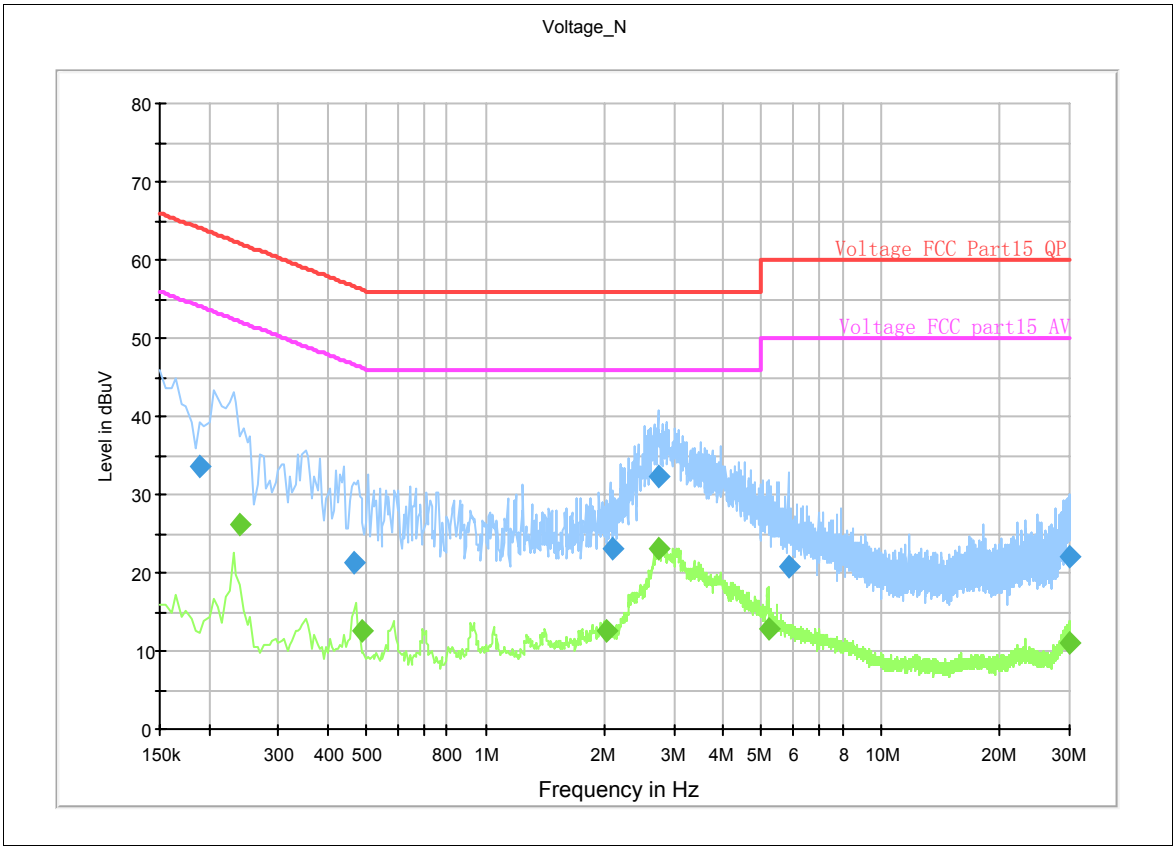
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.61	Average	L	7.9	46	38.1
0.625	Average	N	10.7	46	35.3
2.13	Average	N	11.3	46	34.7
6.485	Average	L	11.1	50	38.9
29.655	Average	N	10	50	40
29.975	Average	L	9.7	50	40.3
0.445	Quasi-peak	N	22	57	35
0.54	Quasi-peak	L	20	56	36
2.075	Quasi-peak	L	23.4	56	32.6
5.32	Quasi-peak	N	21.3	60	38.7
5.54	Quasi-peak	L	21.7	60	38.3
29.47	Quasi-peak	N	20.5	60	39.5

802.11g CH1



L Line

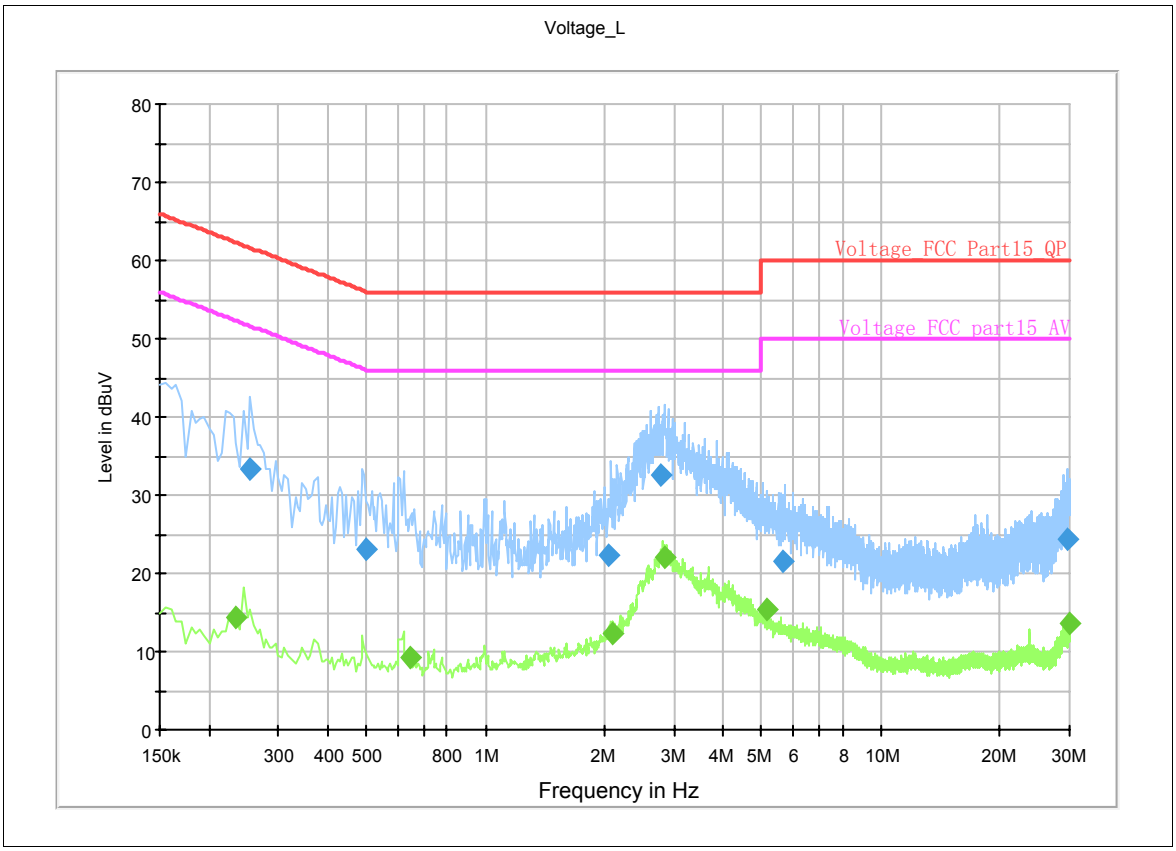


N Line

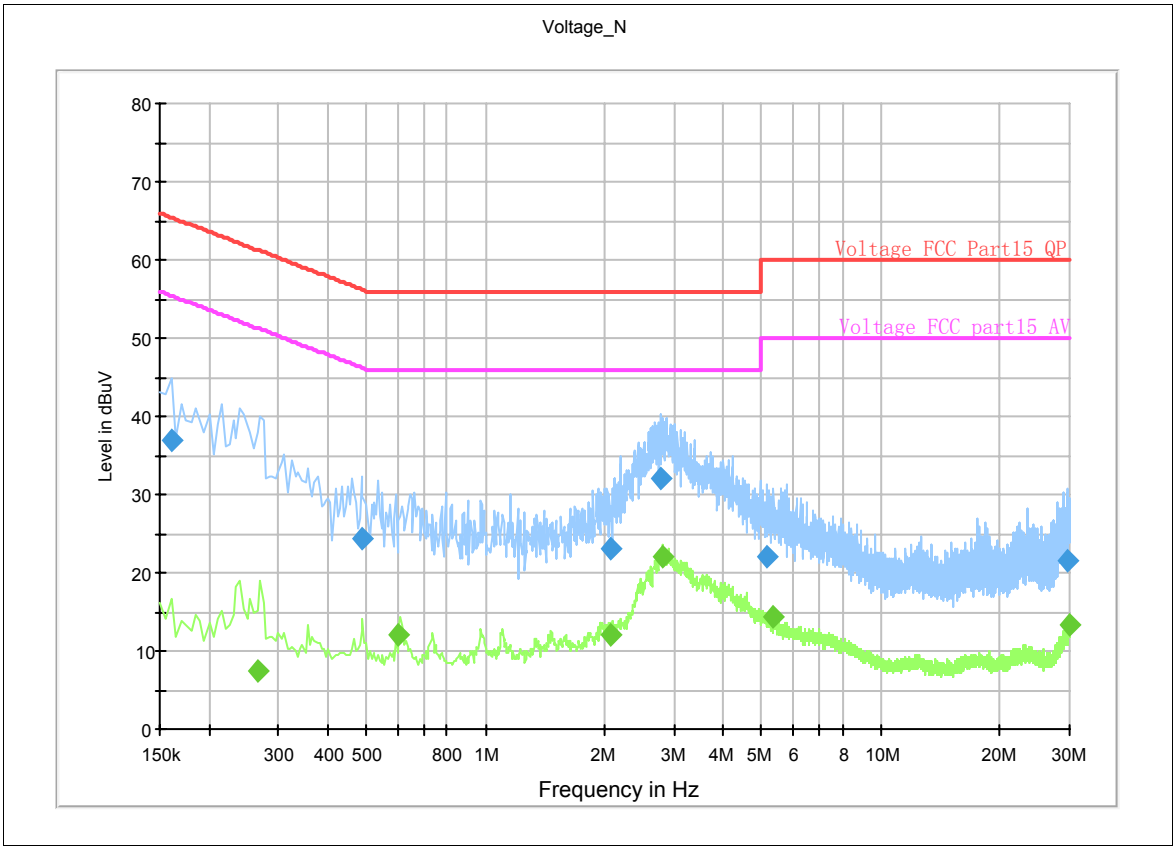
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBµV)	Limit (dBµV)	Margin (dB)
0.24	Average	L	11.8	52.1	40.3
0.49	Average	N	12.5	46.2	33.7
0.625	Average	L	9	46	37
2.015	Average	N	12.5	46	33.5
29.935	Average	N	11	50	39
29.94	Average	L	12.4	50	37.6
0.465	Quasi-peak	N	21.3	56.6	35.3
2.07	Quasi-peak	L	23.7	56	32.3
2.09	Quasi-peak	N	23.1	56	32.9
5.865	Quasi-peak	N	20.9	60	39.1
6.385	Quasi-peak	L	20	60	40
29.935	Quasi-peak	N	22	60	38

802.11g CH6



L Line

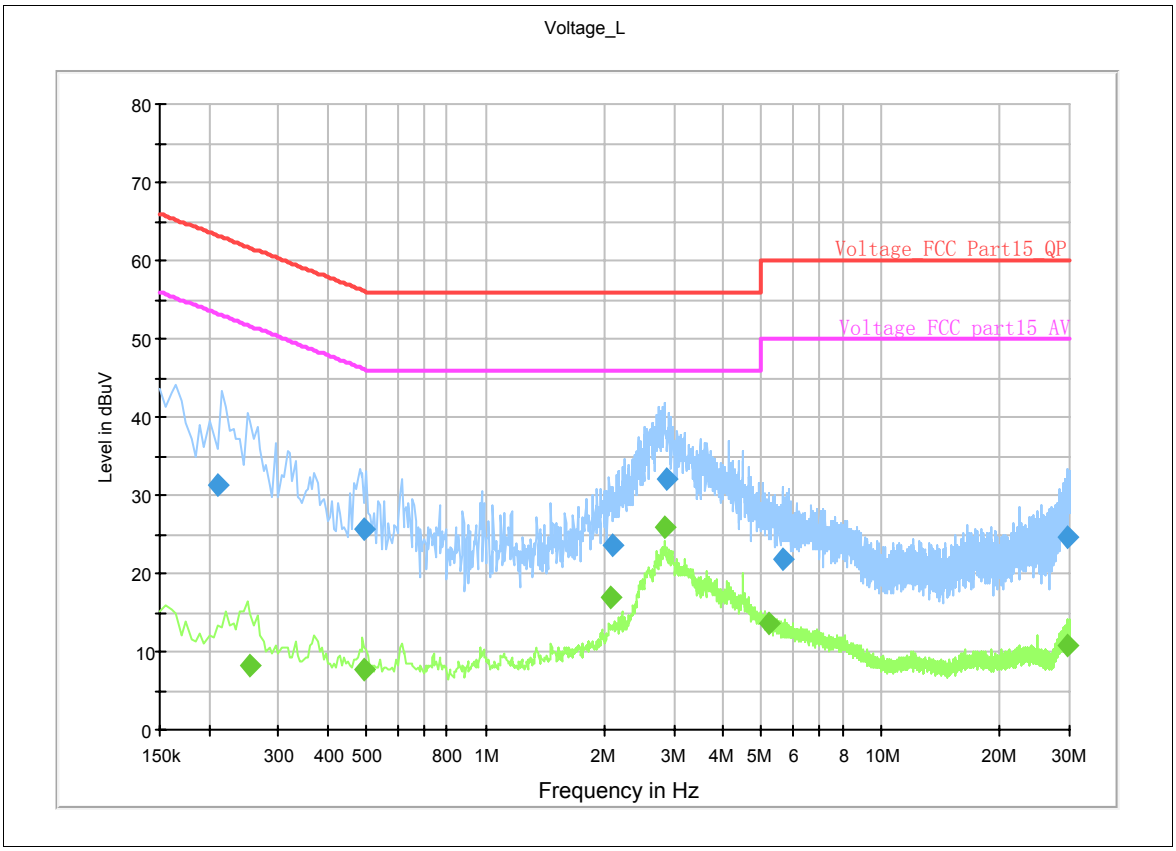


N Line

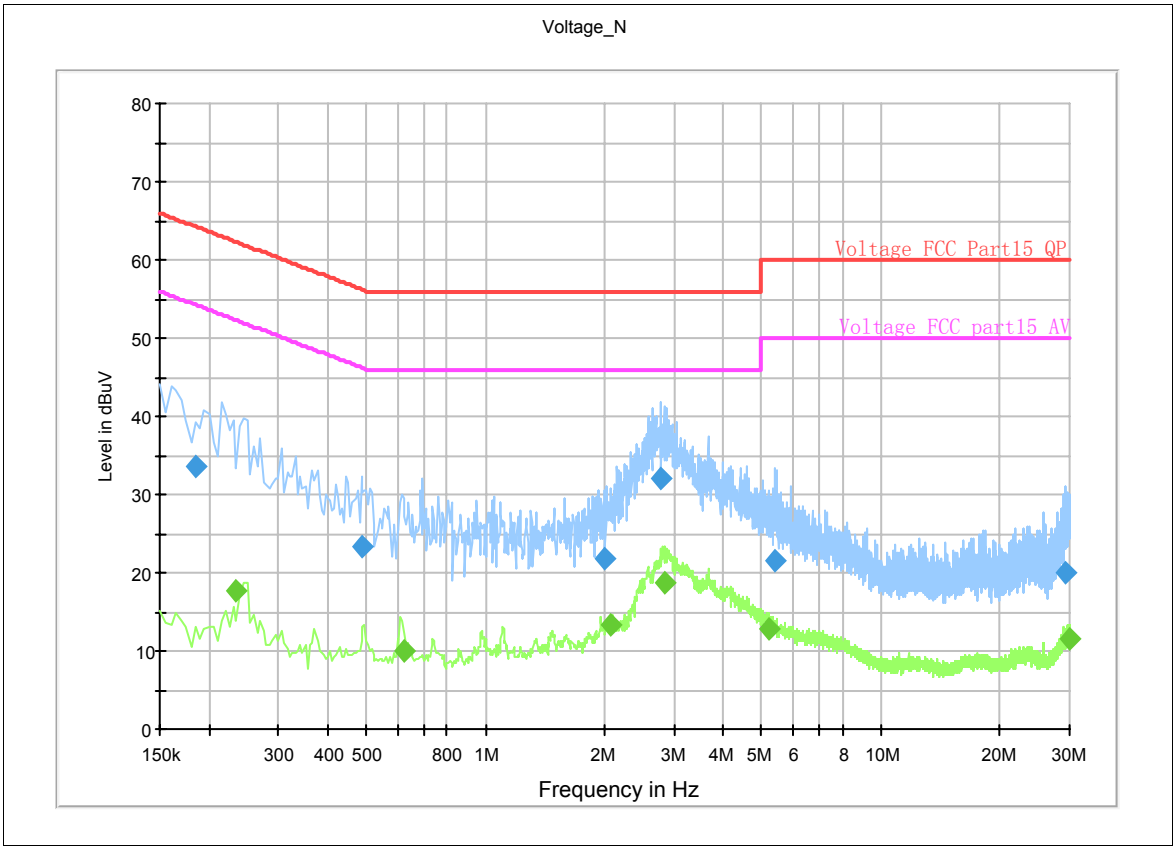
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.235	Average	L	14.3	52.3	38
2.805	Average	N	22.1	46	23.9
2.84	Average	L	22	46	24
5.16	Average	L	15.4	50	34.6
5.315	Average	N	14.3	50	35.7
29.91	Average	L	13.6	50	36.4
0.16	Quasi-peak	N	37	65.5	28.5
0.255	Quasi-peak	L	33.4	61.6	28.2
0.485	Quasi-peak	N	24.3	56.3	32
2.78	Quasi-peak	N	32.2	56	23.8
2.79	Quasi-peak	L	32.6	56	23.4
29.56	Quasi-peak	L	24.4	60	35.6

802.11g CH11



L Line



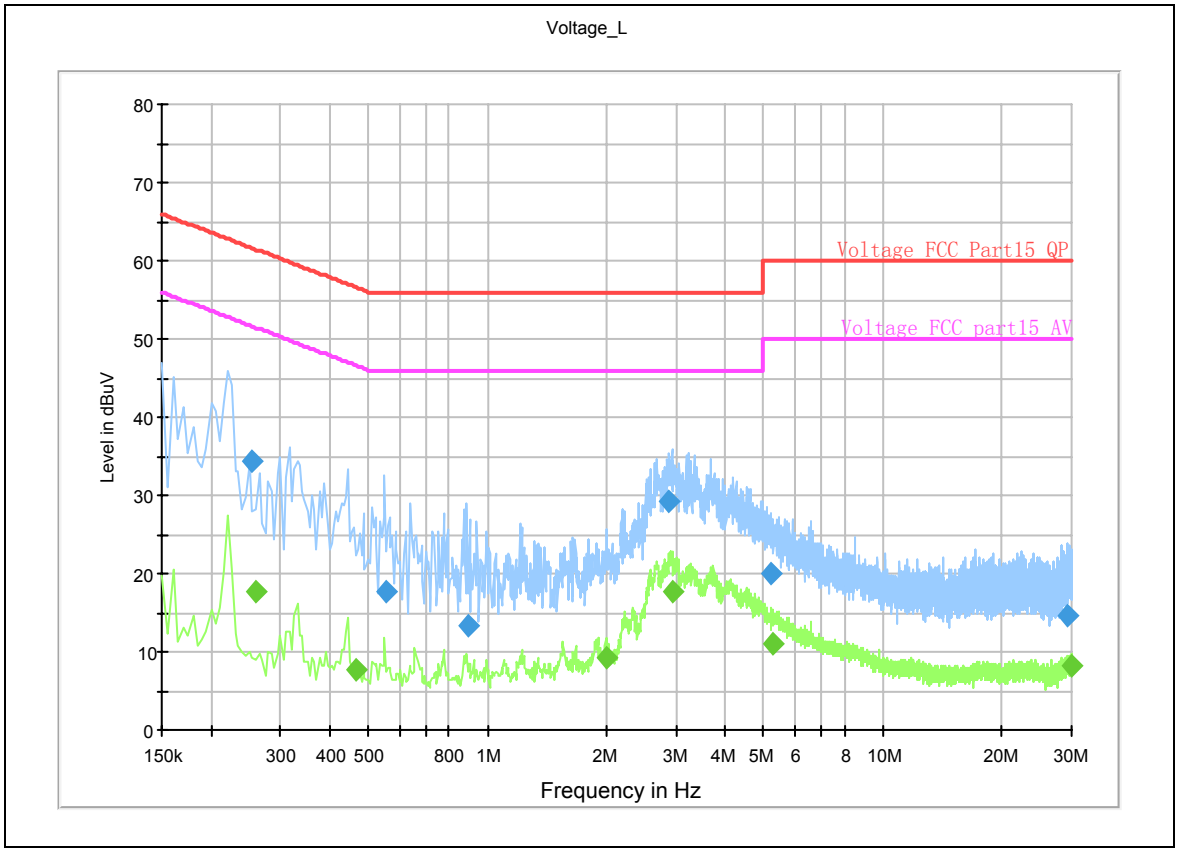
N Line

Conducted Emission from 150 KHz to 30 MHz

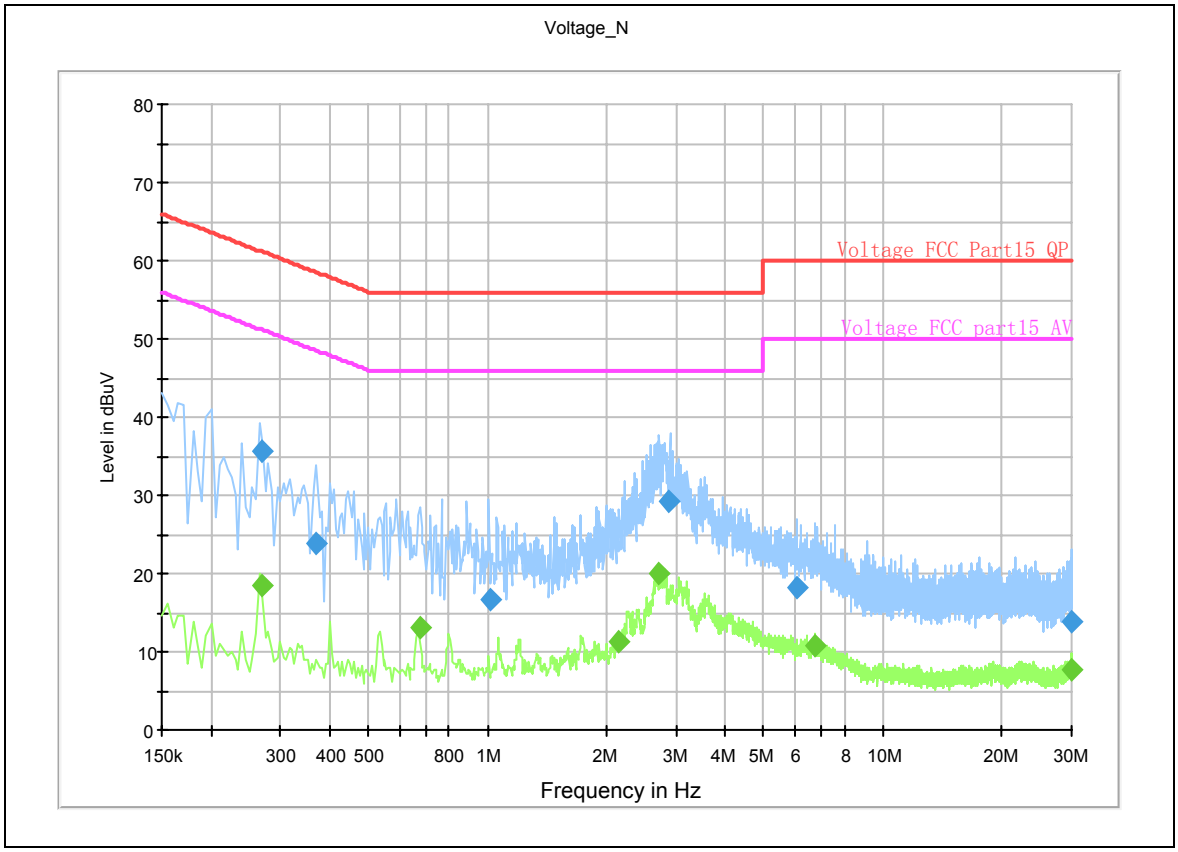
Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.235	Average	N	17.8	52.3	34.5
2.07	Average	N	13.4	46	32.6
2.08	Average	L	16.9	46	29.1
2.825	Average	L	25.9	46	20.1
2.845	Average	N	18.8	46	27.2
5.2	Average	L	13.5	50	36.5
0.185	Quasi-peak	N	33.7	64.3	30.6
0.21	Quasi-peak	L	31.3	63.2	31.9
0.495	Quasi-peak	L	25.6	56.1	30.5
2.76	Quasi-peak	N	31.9	56	24.1
2.88	Quasi-peak	L	32.2	56	23.8
29.73	Quasi-peak	L	24.5	60	35.5

EUT with White Earphone

802.11b CH1



L Line

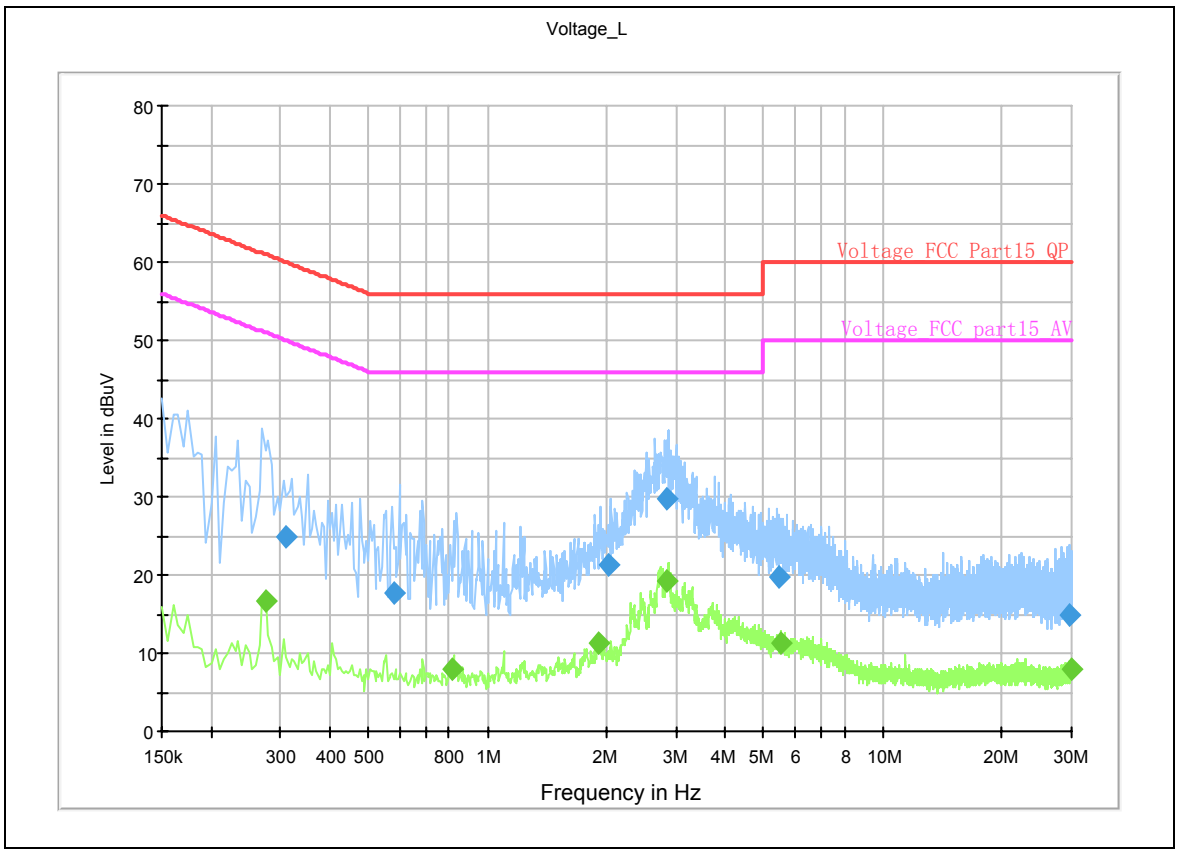


N Line

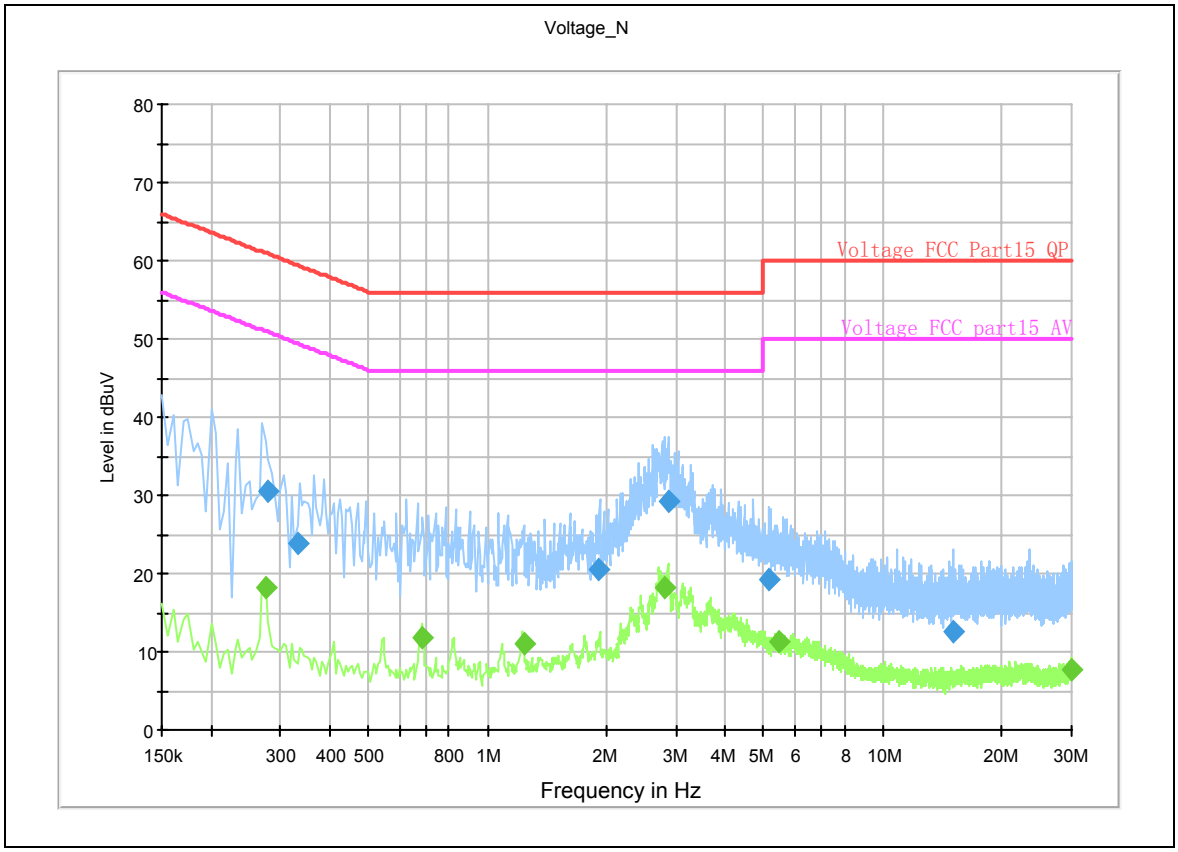
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.26	Average	L	17.7	51.4	33.7
0.27	Average	N	18.5	51.1	32.6
0.675	Average	N	13	46	33
2.145	Average	N	11.3	46	34.7
2.7	Average	N	20.1	46	25.9
2.93	Average	L	17.8	46	28.2
0.255	Quasi-peak	L	34.4	61.6	27.2
0.27	Quasi-peak	N	35.7	61.1	25.4
0.37	Quasi-peak	N	24	58.5	34.5
2.865	Quasi-peak	N	29.3	56	26.7
2.88	Quasi-peak	L	29.1	56	26.9
5.19	Quasi-peak	L	20	60	40

802.11b CH6



L Line

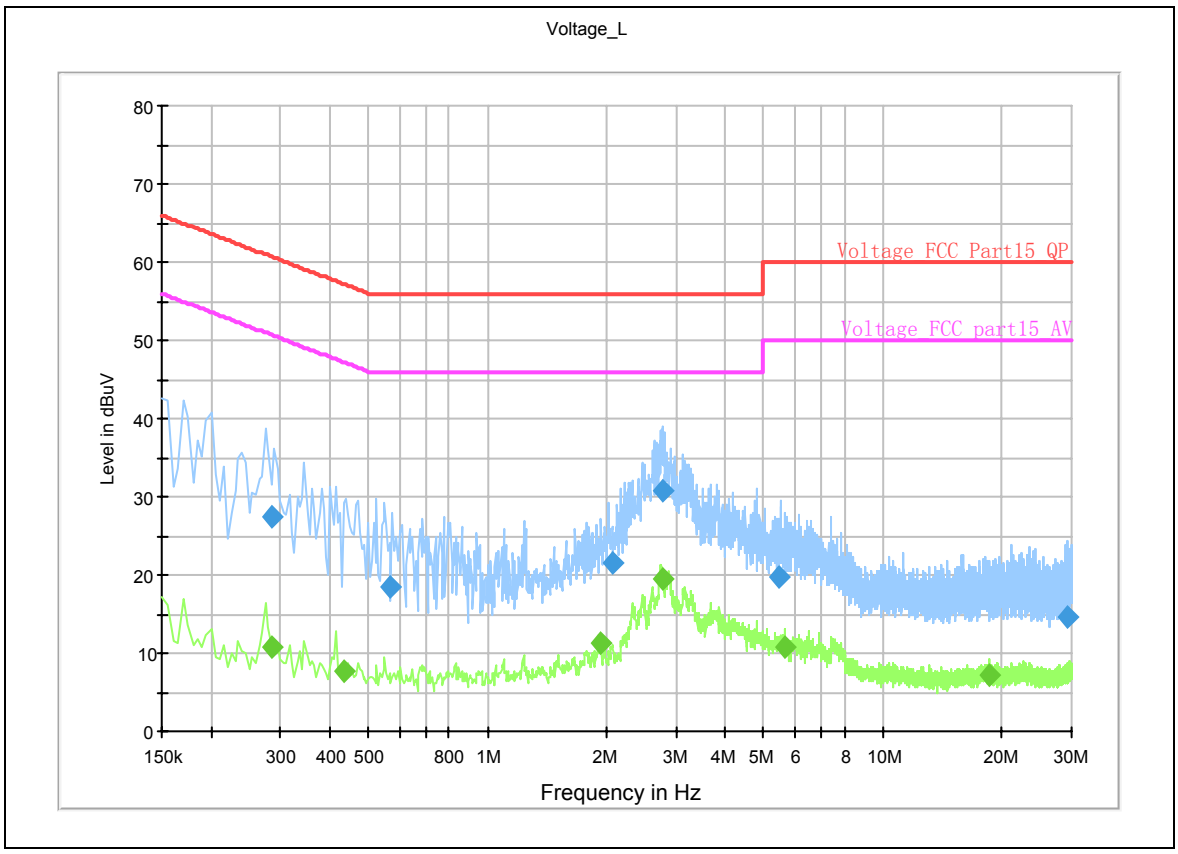


N Line

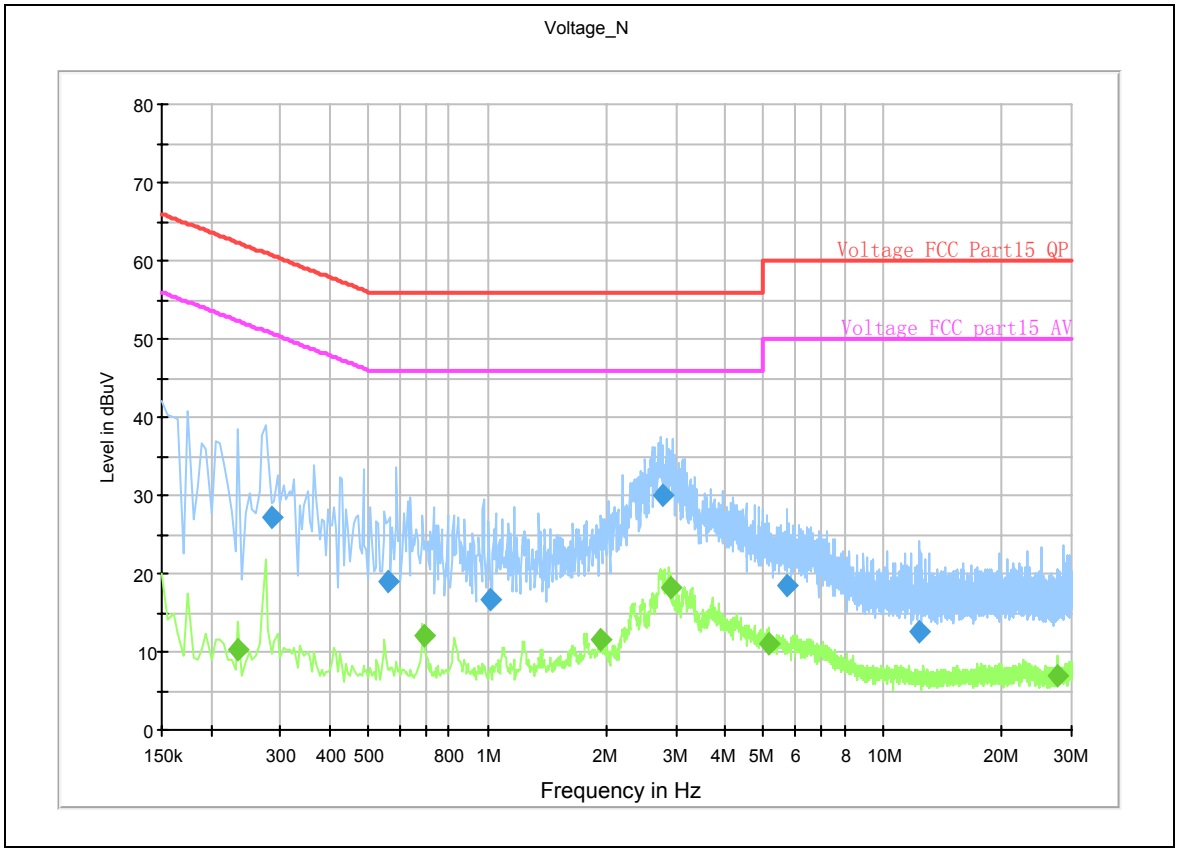
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.275	Average	N	18.2	51	32.8
0.275	Average		16.8	51	34.2
0.68	Average	N	11.9	46	34.1
1.915	Average	L	11.4	46	34.6
2.82	Average	N	18.3	46	27.7
2.845	Average	L	19.2	46	26.8
0.28	Quasi-peak	N	30.5	60.8	30.3
0.31	Quasi-peak	L	25	60	35
0.33	Quasi-peak	N	23.9	59.5	35.6
2.02	Quasi-peak	L	21.2	56	34.8
2.84	Quasi-peak	L	29.7	56	26.3
2.88	Quasi-peak	N	29.3	56	26.7

802.11b CH11



L Line

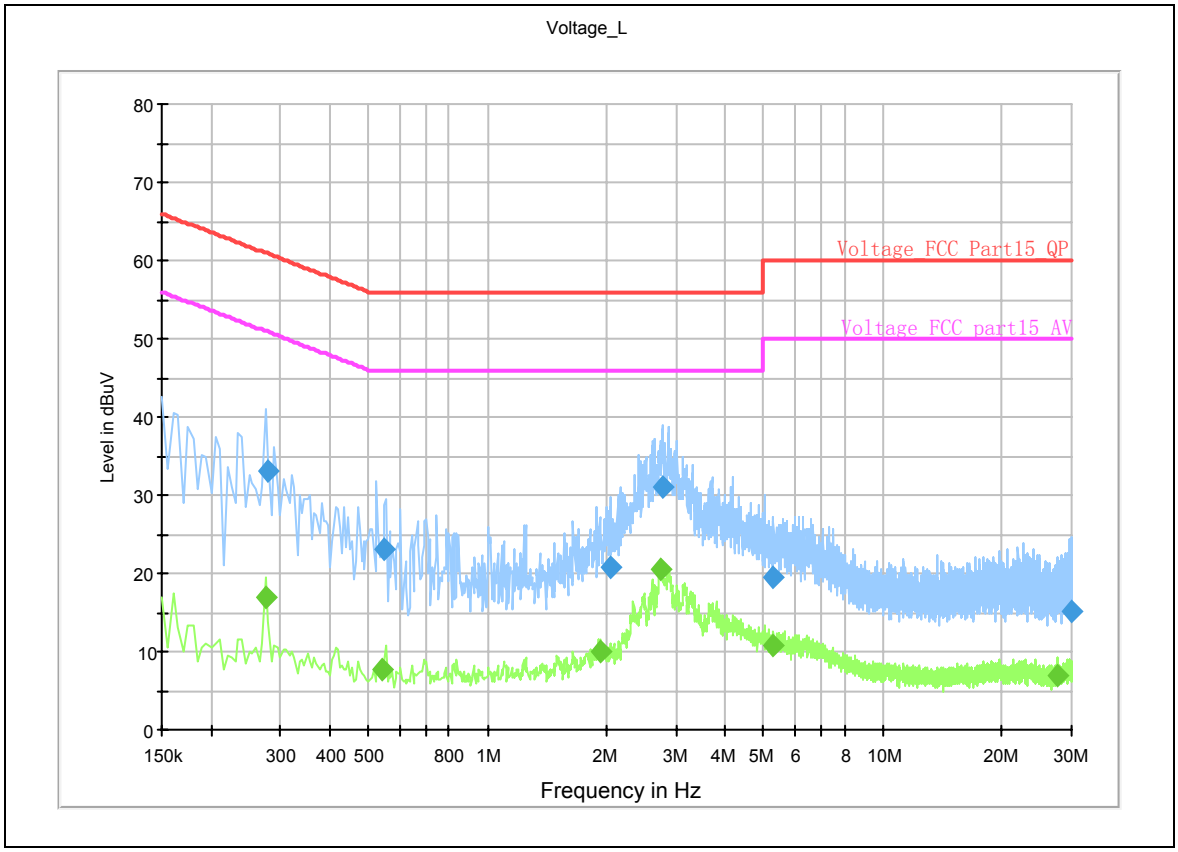


N Line

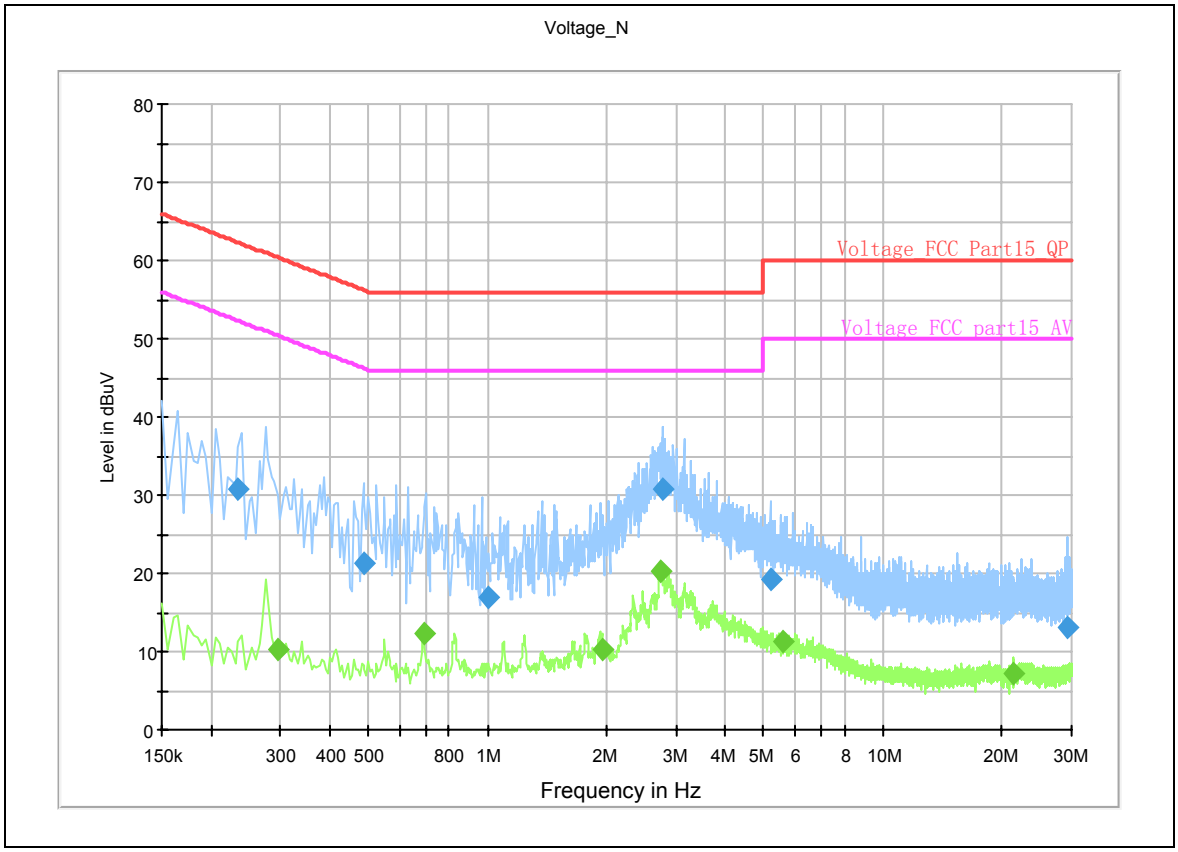
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBμV)	Limit (dBμV)	Margin (dB)
0.69	Average	N	12.2	46	33.8
1.935	Average	N	11.5	46	34.5
1.935	Average	L	11.2	46	34.8
2.775	Average	L	19.6	46	26.4
2.91	Average	N	18.2	46	27.8
5.18	Average	N	11.1	50	38.9
0.285	Quasi-peak	L	27.5	60.7	33.3
0.285	Quasi-peak	N	27.3	60.7	33.4
2.065	Quasi-peak	L	21.6	56	34.4
2.77	Quasi-peak	N	30	56	26
2.78	Quasi-peak	L	30.7	56	25.3
5.485	Quasi-peak	L	19.7	60	40.3

802.11g CH1



L Line

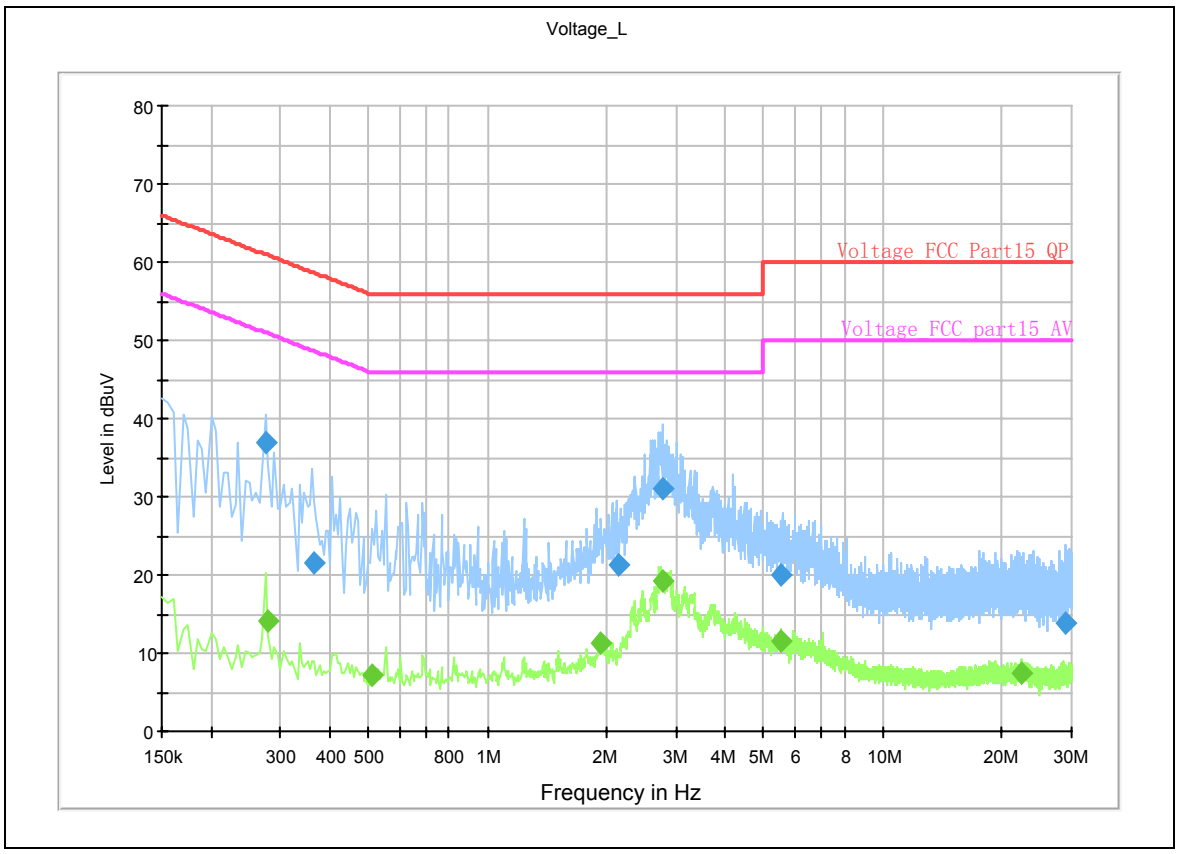


N Line

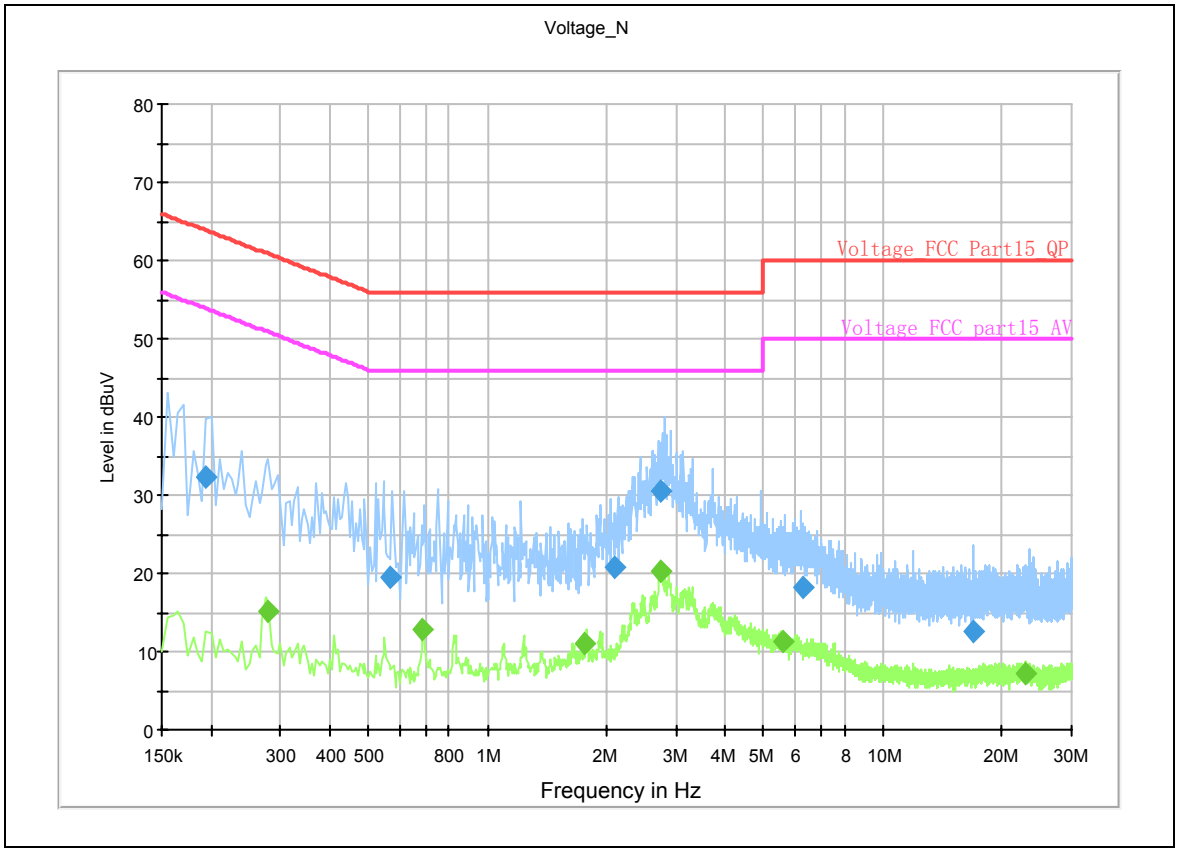
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBµV)	Limit (dBµV)	Margin (dB)
0.275	Average	L	17	51	34
0.69	Average	N	12.4	46	33.6
2.74	Average	L	20.5	46	25.5
2.75	Average	N	20.2	46	25.8
5.26	Average	L	10.9	50	39.1
5.605	Average	N	11.2	50	38.8
0.235	Quasi-peak	N	30.7	62.3	31.6
0.28	Quasi-peak	L	33.2	60.8	27.6
0.485	Quasi-peak	N	21.3	56.3	35
0.545	Quasi-peak	L	23.1	56	32.9
2.765	Quasi-peak	L	31	56	25
2.77	Quasi-peak	N	30.8	56	25.2

802.11g CH6



L Line

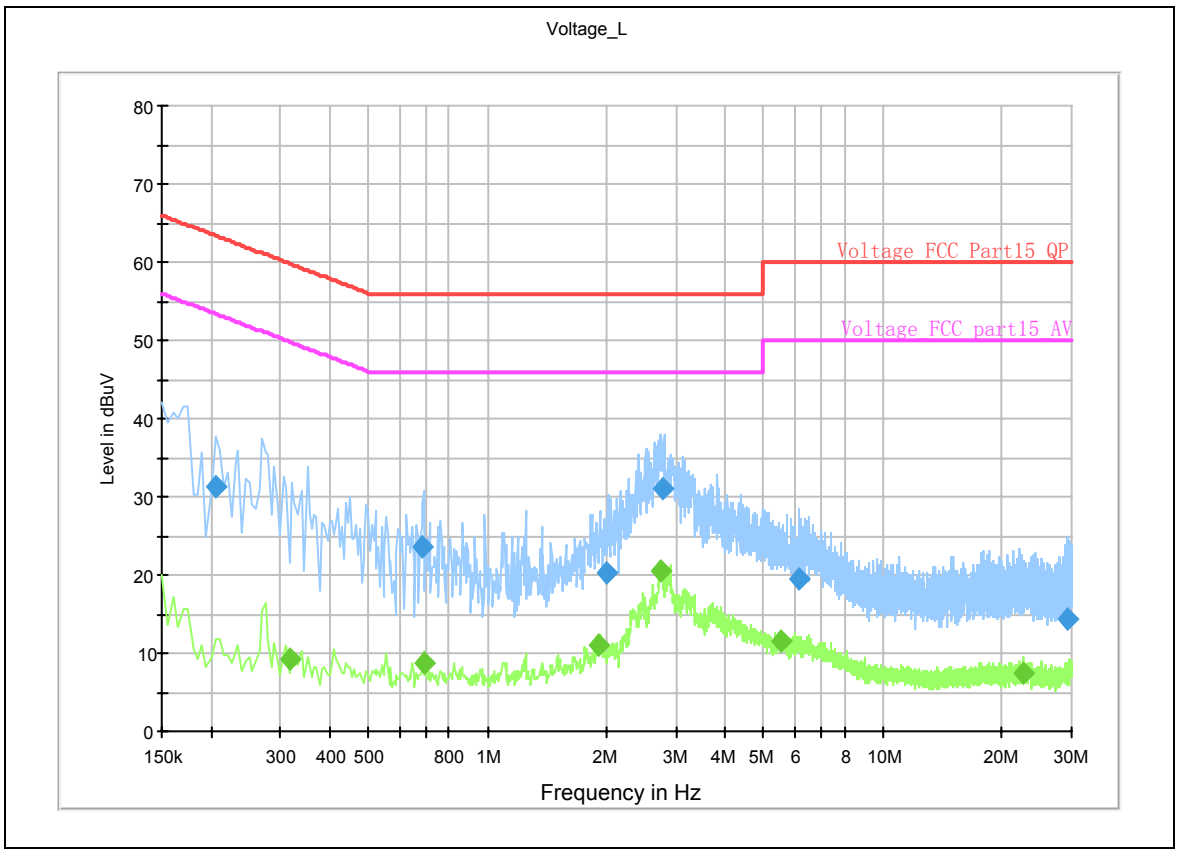


N Line

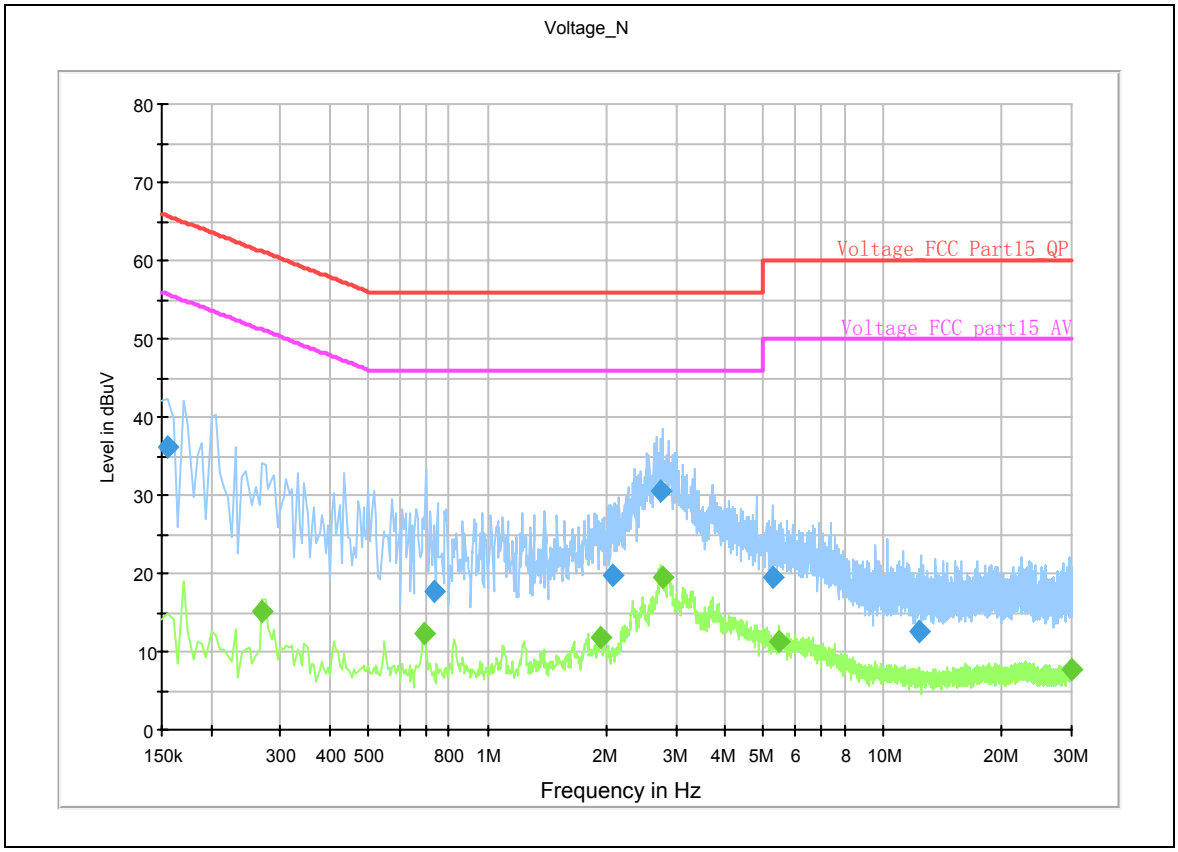
Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBµV)	Limit (dBµV)	Margin (dB)
0.28	Average	N	15.2	50.8	35.6
0.28	Average	L	14	50.8	36.8
0.685	Average	N	12.8	46	33.2
2.74	Average	N	20.3	46	25.7
2.785	Average	L	19.2	46	26.8
5.52	Average	L	11.5	50	38.5
0.195	Quasi-peak	N	32.2	63.8	31.6
0.275	Quasi-peak	L	36.9	61	24.1
0.365	Quasi-peak	L	21.6	58.6	37
2.15	Quasi-peak	L	21.2	56	34.8
2.755	Quasi-peak	N	30.4	56	25.6
2.775	Quasi-peak	L	30.9	56	25.1

802.11g CH11



L Line



N Line

Conducted Emission from 150 KHz to 30 MHz

Frequency (MHz)	Detector	Line	Level (dBµV)	Limit (dBµV)	Margin (dB)
0.27	Average	N	15.3	51.1	35.8
0.69	Average	N	12.2	46	33.8
1.93	Average	N	11.7	46	34.3
2.75	Average	L	20.5	46	25.5
2.775	Average	N	19.4	46	26.6
5.505	Average	L	11.4	50	38.6
0.155	Quasi-peak	N	36.2	65.7	29.5
0.205	Quasi-peak	L	31.2	63.4	32.2
0.685	Quasi-peak	L	23.6	56	32.4
2.01	Quasi-peak	L	20.1	56	35.9
2.75	Quasi-peak	N	30.4	56	25.6
2.78	Quasi-peak	L	30.9	56	25.1

2. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Valid Period
01	Signal Analyzer	FSV	R&S	100815	2010-06-28	One year
02	Signal generator	SMR27	R&S	100365	2010-07-01	One year
03	Spectrum Analyzer	E4445A	Agilent	MY46181146	2010-06-07	One year
04	EMI Test Receiver	ESCI	R&S	100948	2010-07-01	One year
05	Trilog Antenna	VULB 9163	SCHWARZBECK	9163-201	2010-06-29	Two years
06	Horn Antenna	HF907	R&S	100126	2009-07-02	Two years
07	AC Power Source	AFC-11005G	APC	F309040118	2009-08-03	Three years
08	Power Splitter	11667A	Agilent	52960	NA	NA
09	Semi-Anechoic Chamber	9.6*6.7*6.6m	ETS-Lindgren	NA	NA	NA
10	EMI test software	ES-K1	R&S	NA	NA	NA

*******END OF REPORT BODY*******