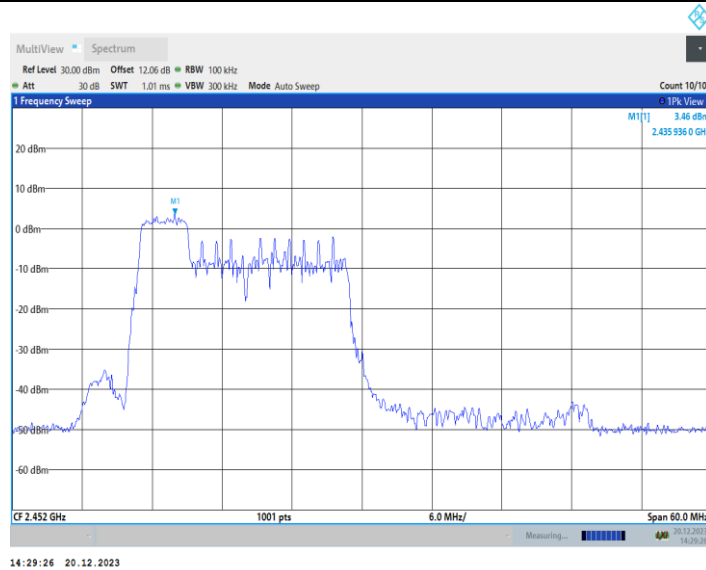
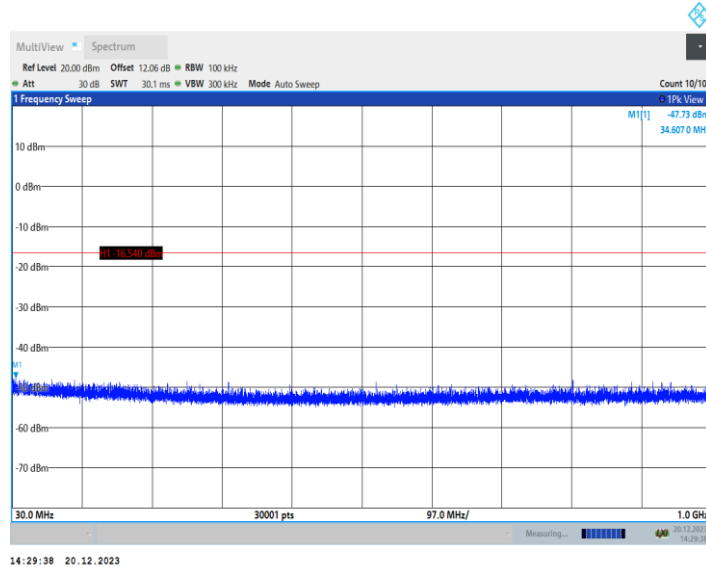


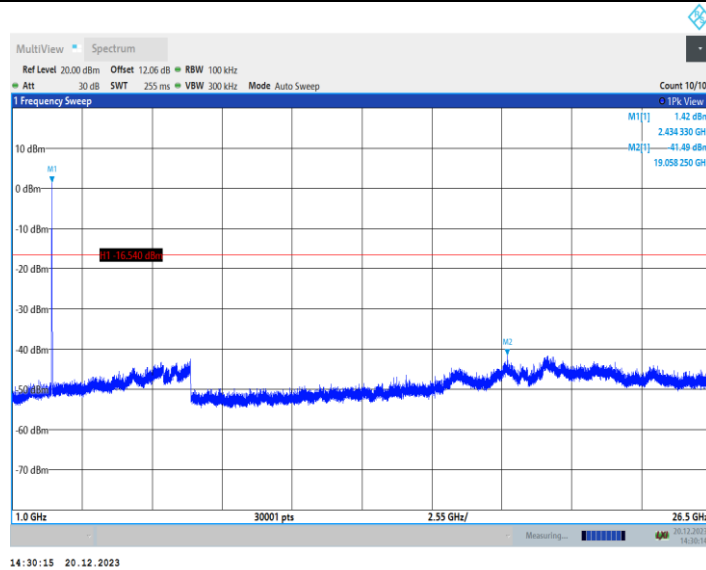
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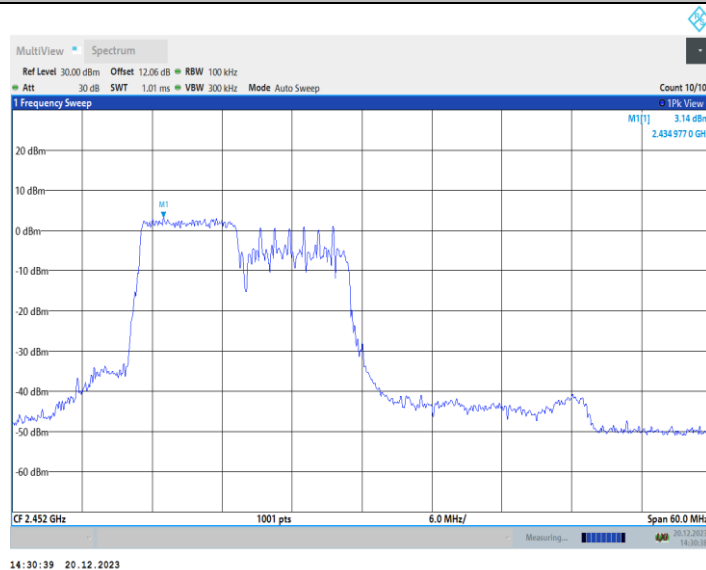
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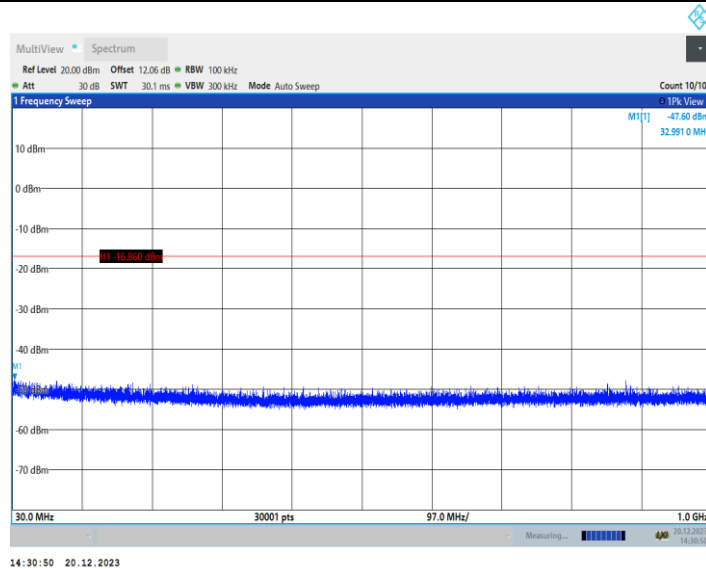
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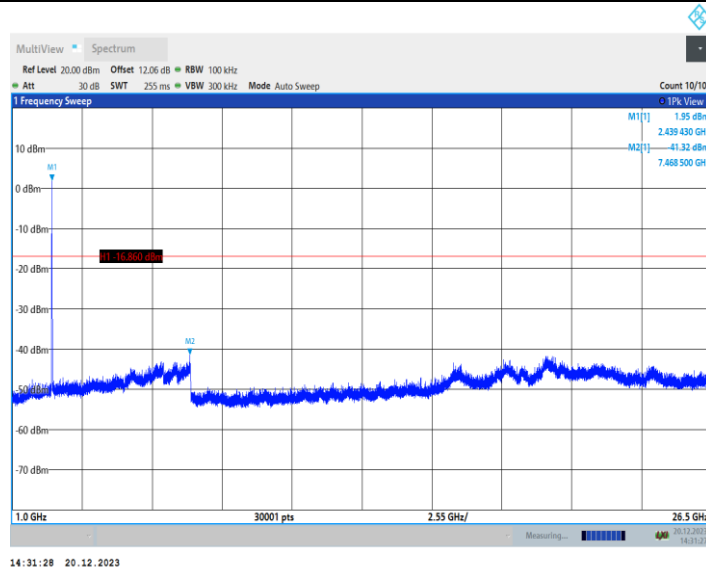
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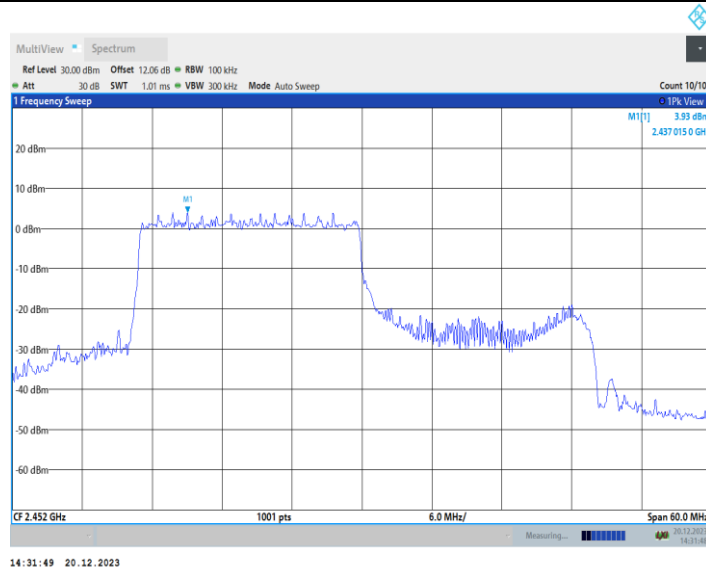
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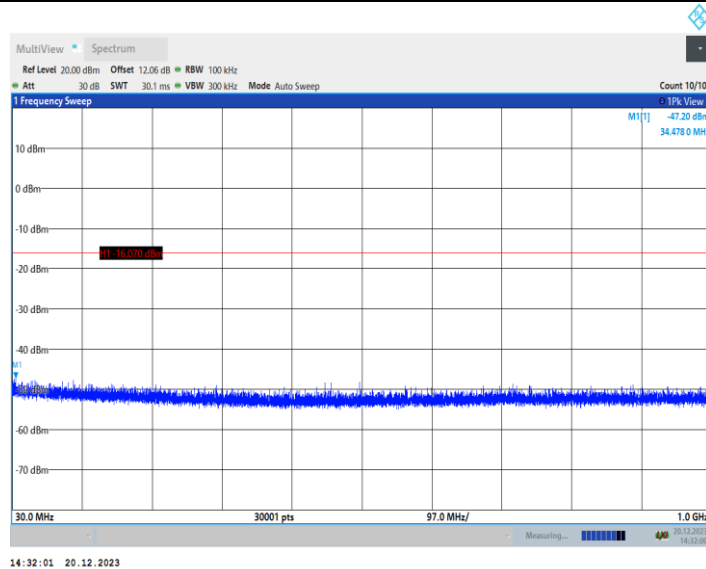
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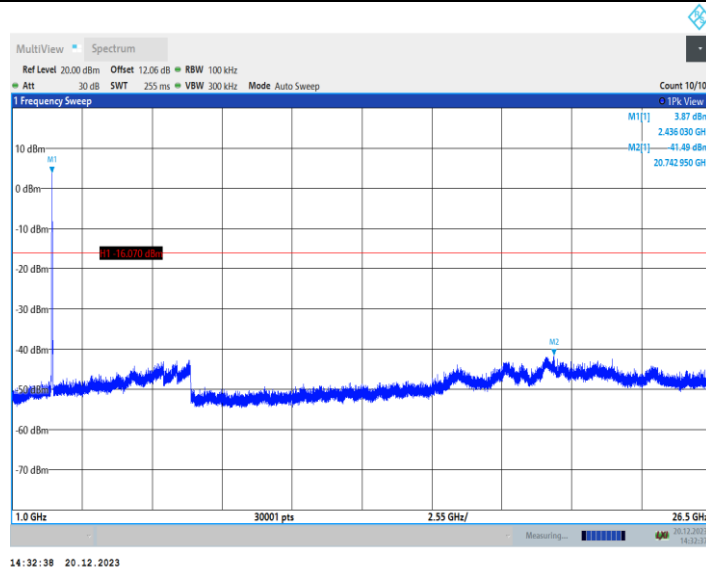
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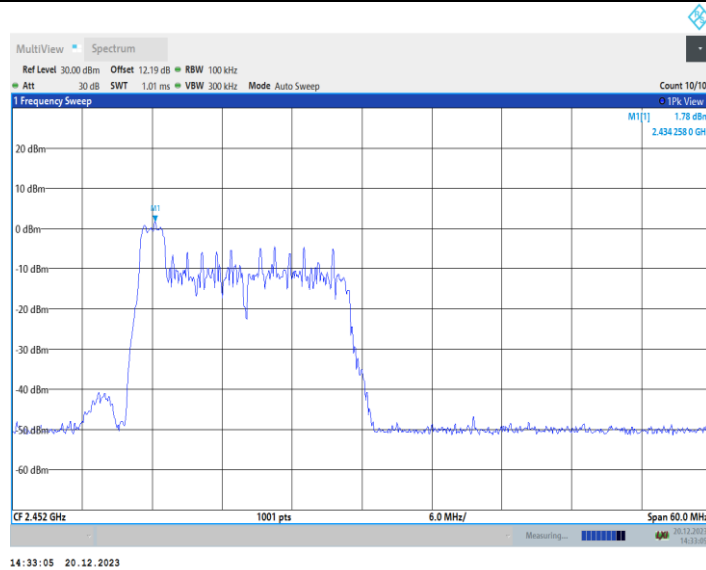
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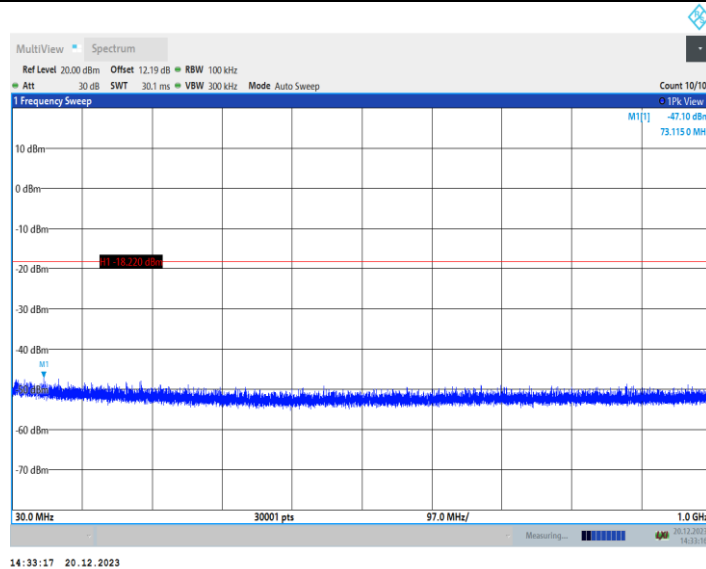
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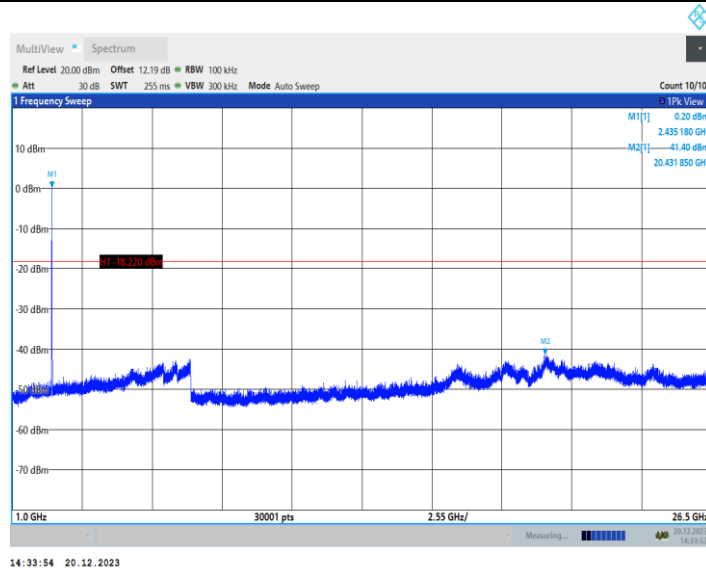
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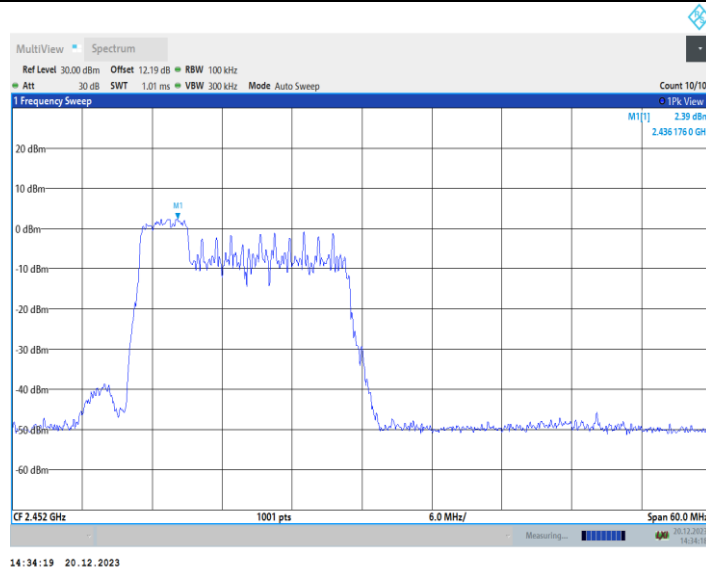
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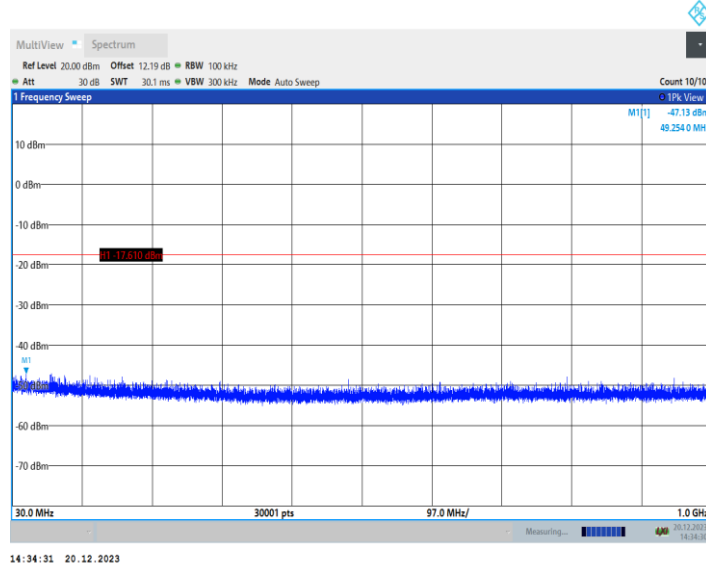
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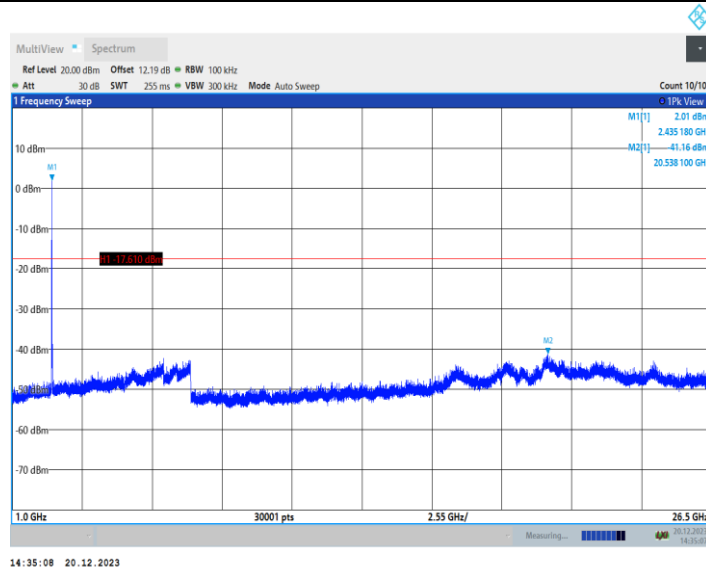
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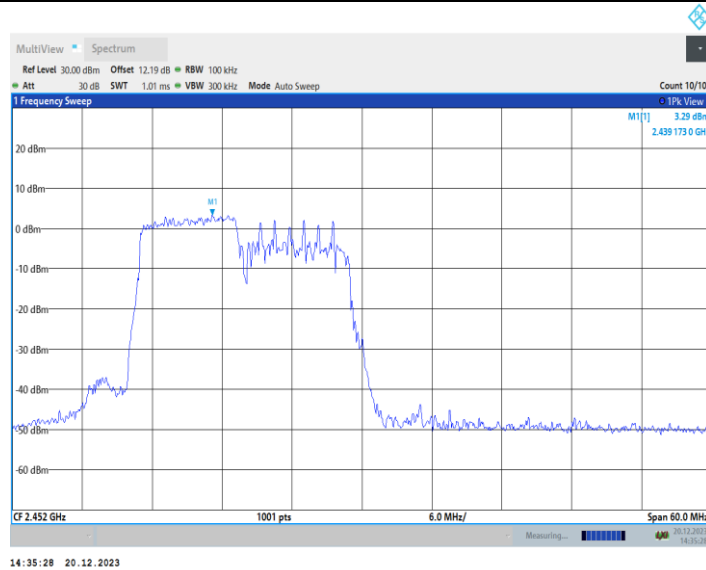
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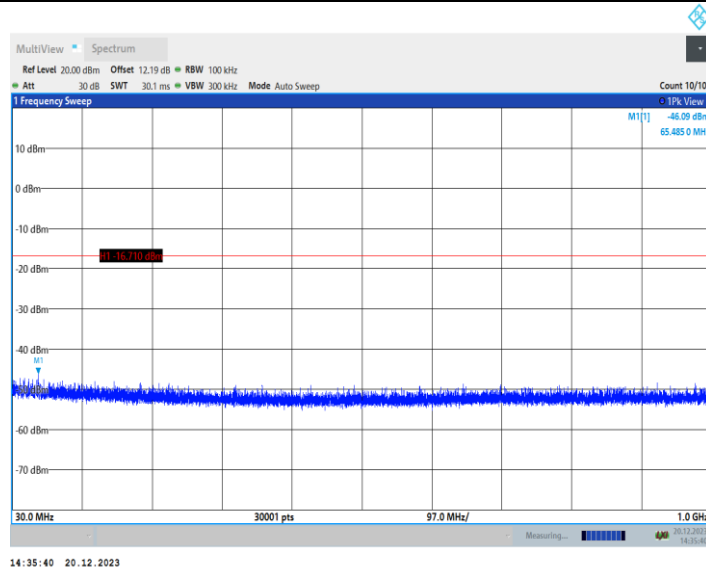
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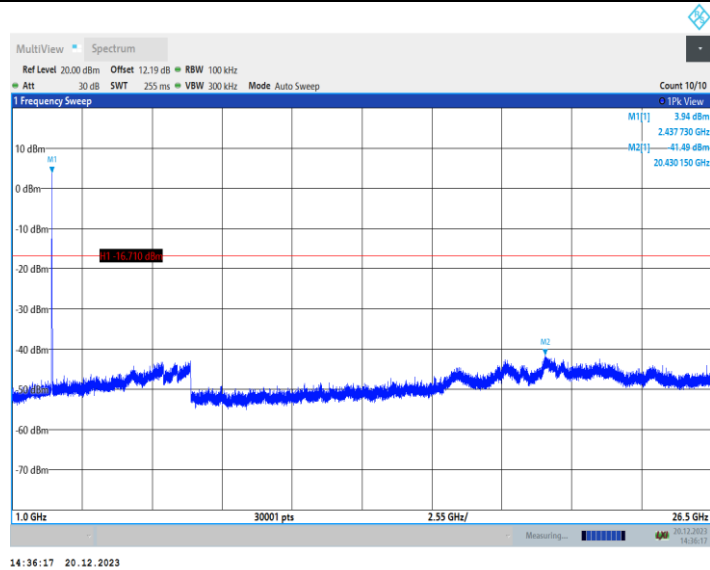
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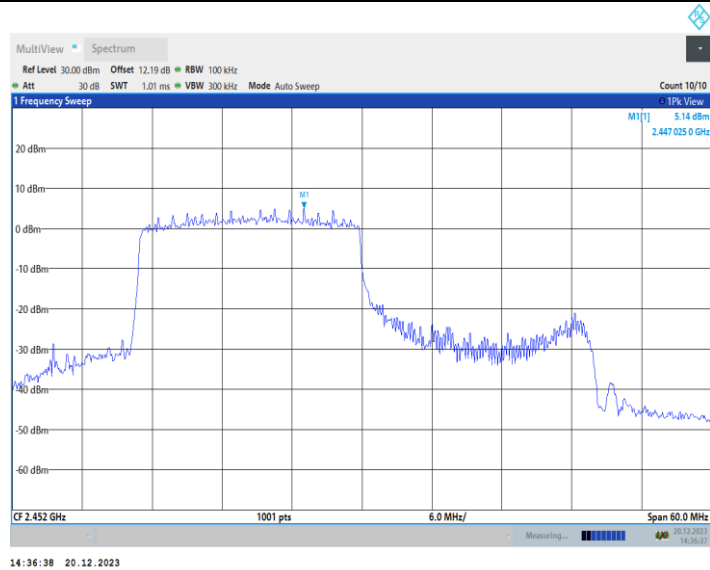
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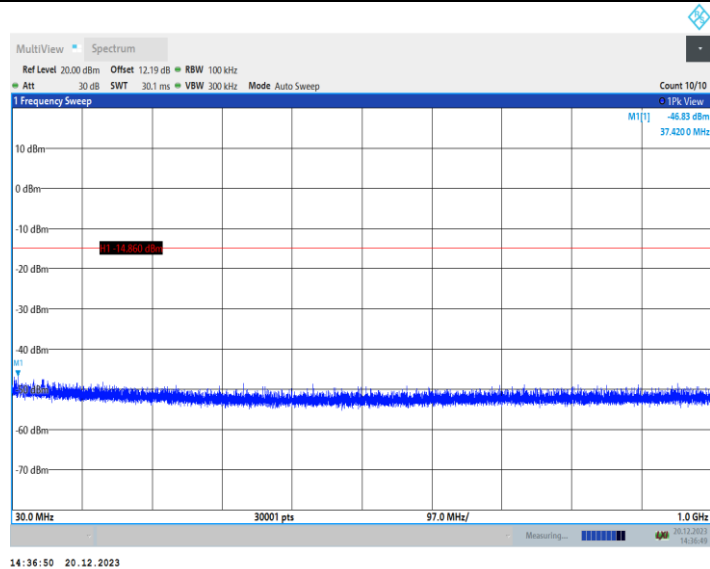
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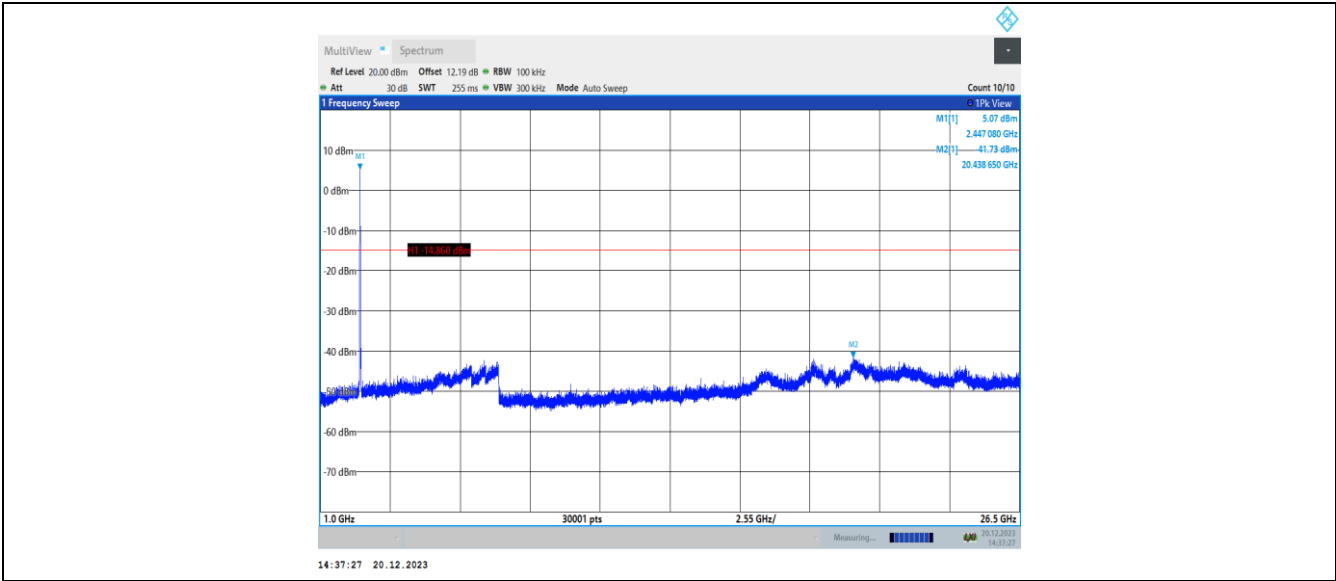
11AX40MIMO_Ant2_2452_242Tone_RU61_0~Reference



11AX40MIMO_Ant2_2452_242Tone_RU61_30~1000



11AX40MIMO_Ant2_2452_242Tone_RU61_1000~26500



Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RuSize	RuIndex	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11AX20MIMO	Ant1	Low	2412	26Tone	RU0	3.39	-30.82	≤-16.61	PASS
				52Tone	RU37	3.54	-22.99	≤-16.46	PASS
				106Tone	RU53	4.42	-22.16	≤-15.58	PASS
	Ant2	Low	2412	26Tone	RU0	0.16	-33.43	≤-19.84	PASS
				52Tone	RU37	2.21	-24.02	≤-17.79	PASS
				106Tone	RU53	2.85	-24.15	≤-17.15	PASS
	Ant1	High	2462	26Tone	RU0	3.64	-46.08	≤-16.36	PASS
				52Tone	RU37	3.35	-48.55	≤-16.65	PASS
				106Tone	RU53	3.61	-47.04	≤-16.39	PASS
	Ant2	High	2462	26Tone	RU0	4.00	-45.36	≤-16	PASS
				52Tone	RU37	4.54	-46.56	≤-15.46	PASS
				106Tone	RU53	4.66	-41.28	≤-15.34	PASS
11AX40MIMO	Ant1	Low	2422	26Tone	RU0	1.72	-40.59	≤-18.28	PASS
				52Tone	RU37	2.26	-35.93	≤-17.74	PASS
				106Tone	RU53	3.30	-36.28	≤-16.7	PASS
				242Tone	RU61	4.15	-33.33	≤-15.85	PASS
	Ant2	Low	2422	26Tone	RU0	12.70	-28.43	≤-7.3	PASS
				52Tone	RU37	2.24	-34.98	≤-17.76	PASS
				106Tone	RU53	4.06	-34.32	≤-15.94	PASS
				242Tone	RU61	4.83	-30.69	≤-15.17	PASS
	Ant1	High	2452	26Tone	RU0	-4.42	-48.78	≤-24.42	PASS
				52Tone	RU37	-1.78	-48.41	≤-21.78	PASS
				106Tone	RU53	2.71	-48.53	≤-17.29	PASS
				242Tone	RU61	4.17	-44.59	≤-15.83	PASS
	Ant2	High	2452	26Tone	RU0	-4.68	-48.67	≤-24.68	PASS
				52Tone	RU37	-0.87	-48.4	≤-20.87	PASS
				106Tone	RU53	3.50	-47.98	≤-16.5	PASS
				242Tone	RU61	5.19	-44.74	≤-14.81	PASS

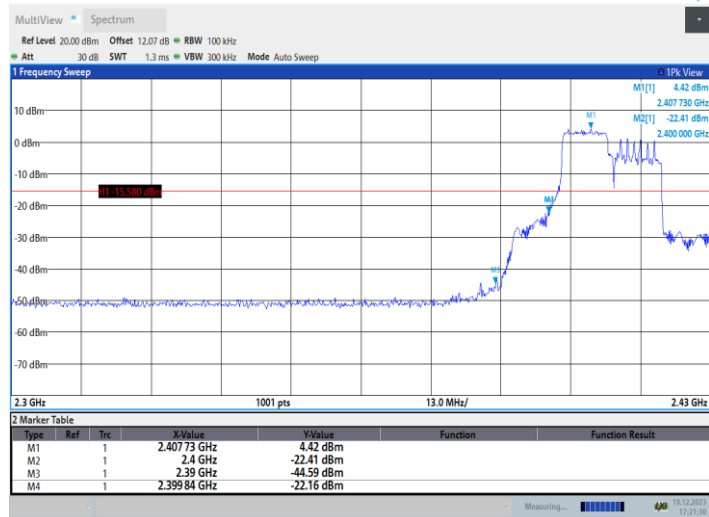
OFDMA Mode:





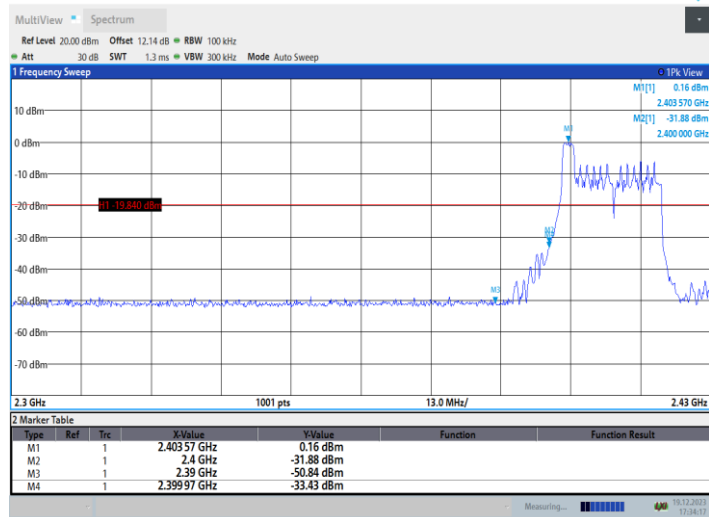
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11AX20MIMO_Ant1_Low_2412_106Tone_RU53



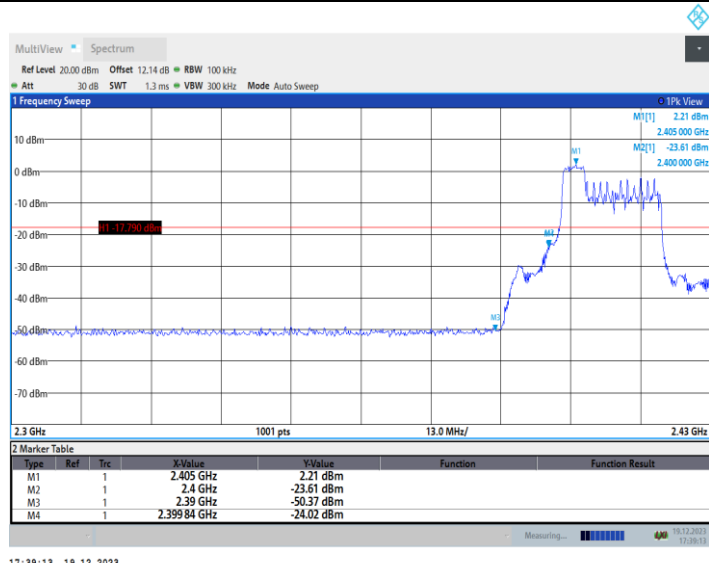
17:21:31 19.12.2023

11AX20MIMO_Ant2_Low_2412_26Tone_RU0



17:34:17 19.12.2023

11AX20MIMO_Ant2_Low_2412_52Tone_RU37



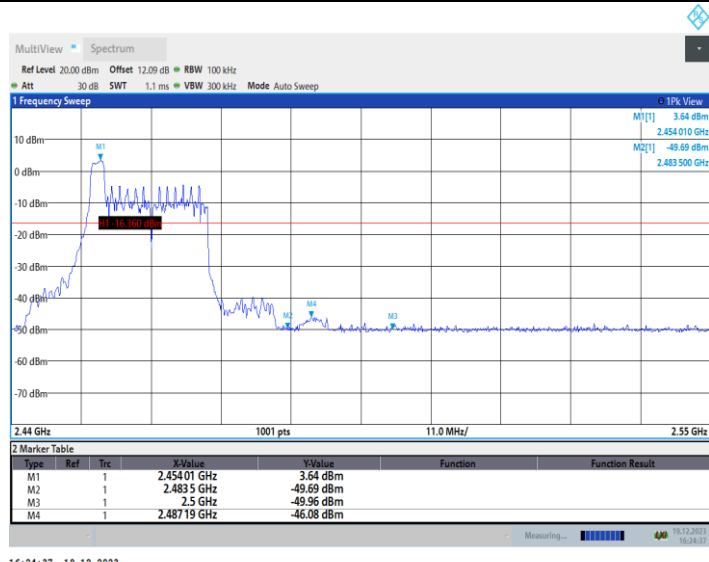
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11AX20MIMO_Ant2_Low_2412_106Tone_RU53



17:44:16 19.12.2023

11AX20MIMO_Ant1_High_2462_26Tone_RU0



16:24:37 19.12.2023

11AX20MIMO_Ant1_High_2462_52Tone_RU37



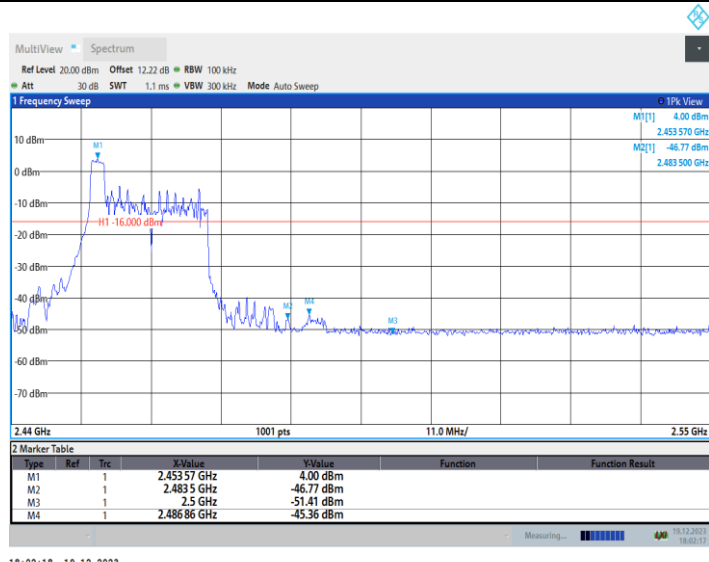
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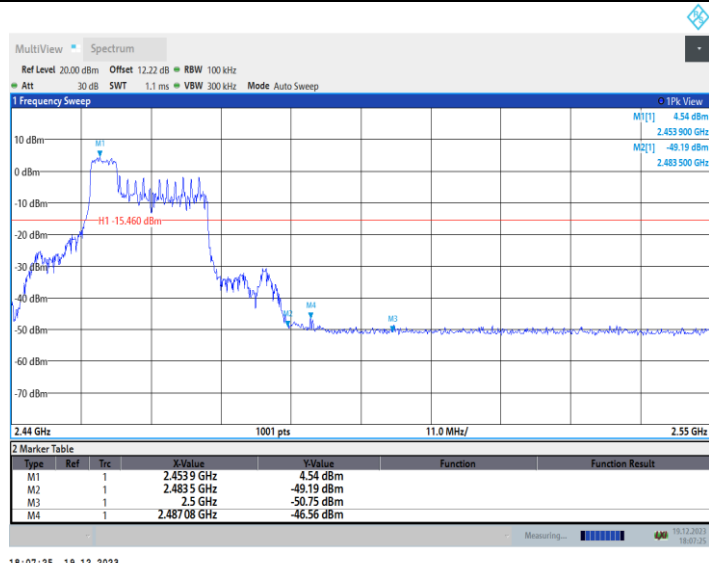
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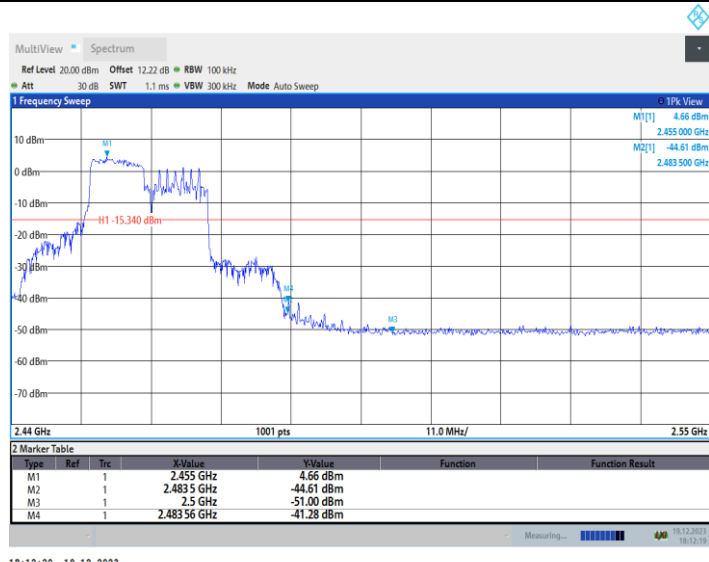
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11AX20MIMO_Ant2_High_2462_52Tone_RU37



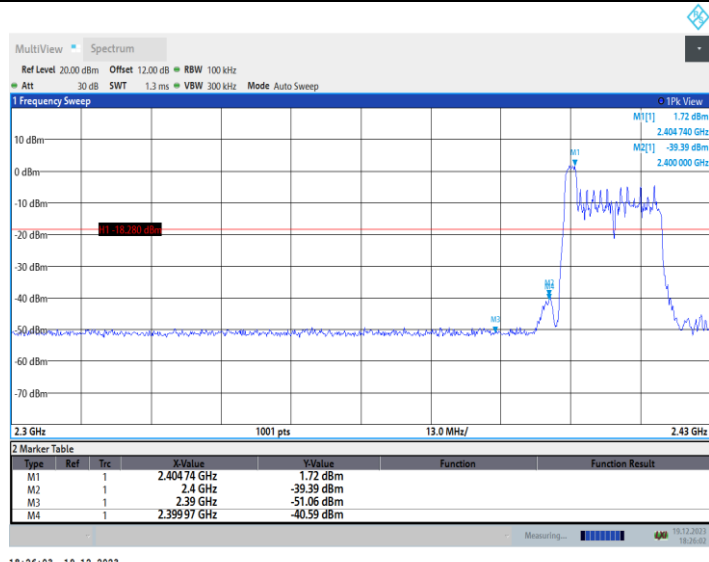
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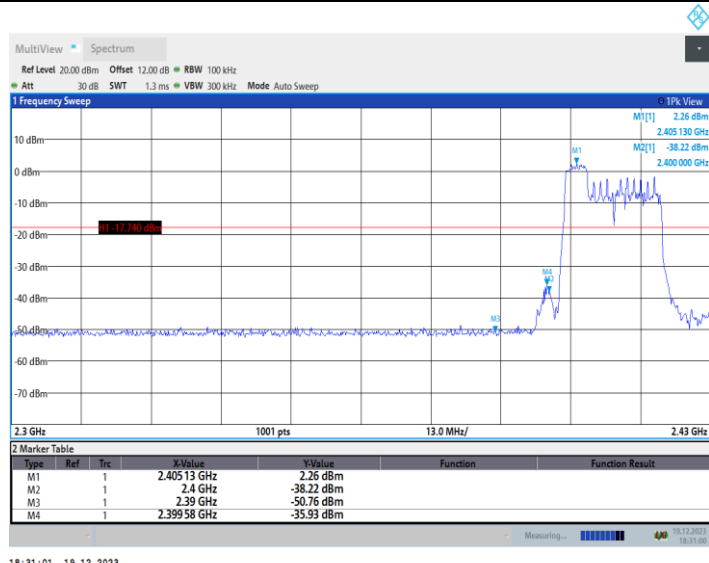
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11AX40MIMO_Ant1_Low_2422_26Tone_RU0



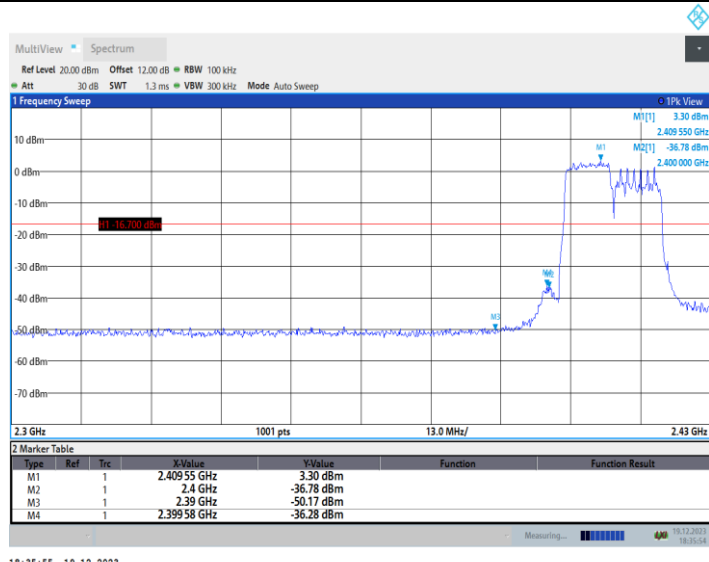
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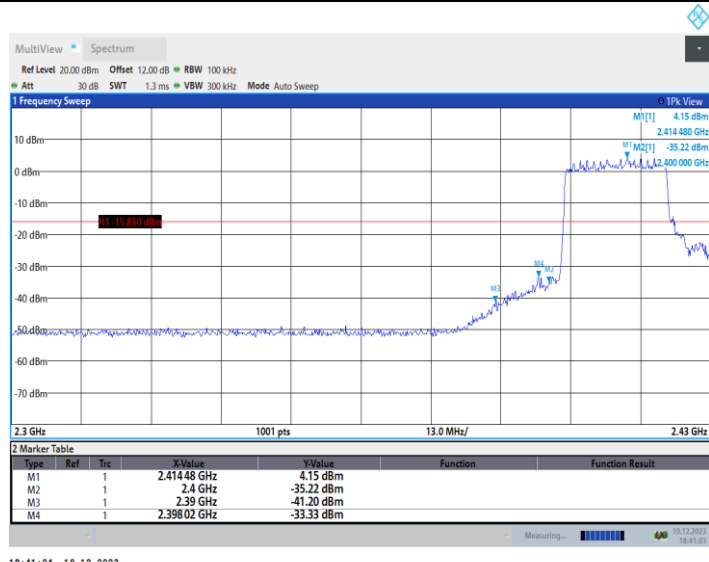
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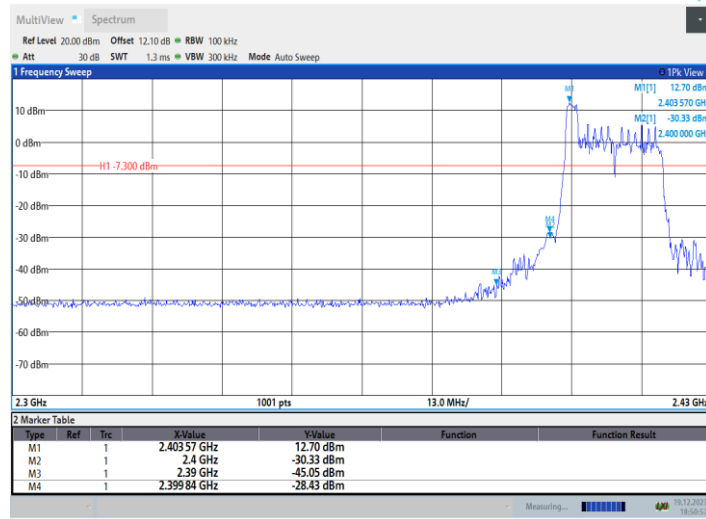
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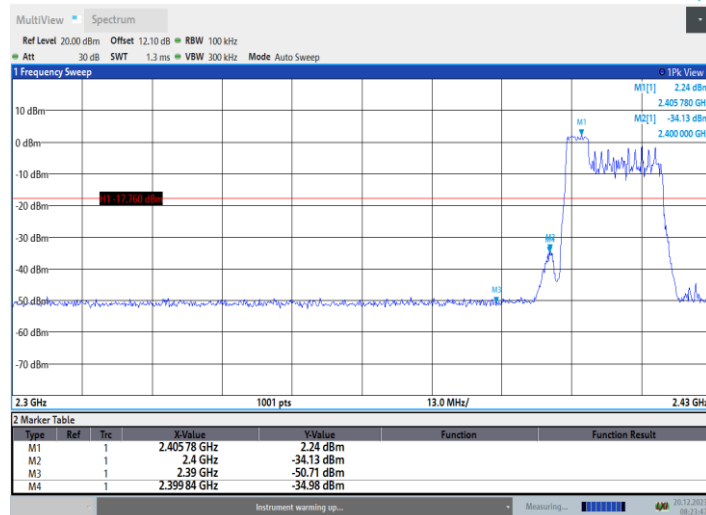
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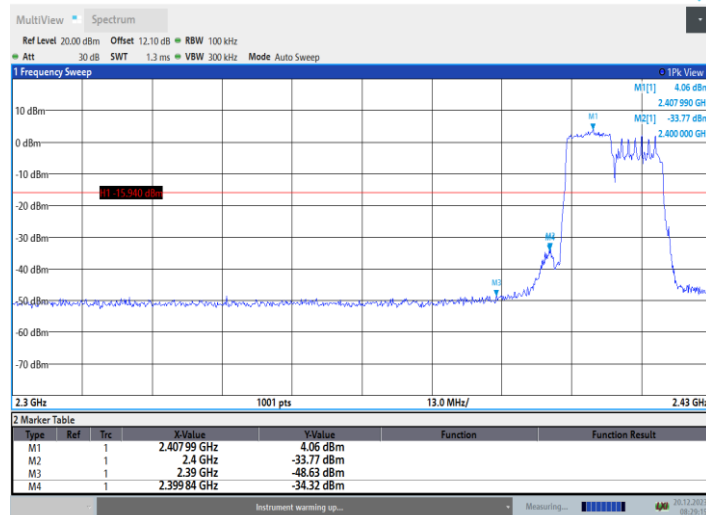
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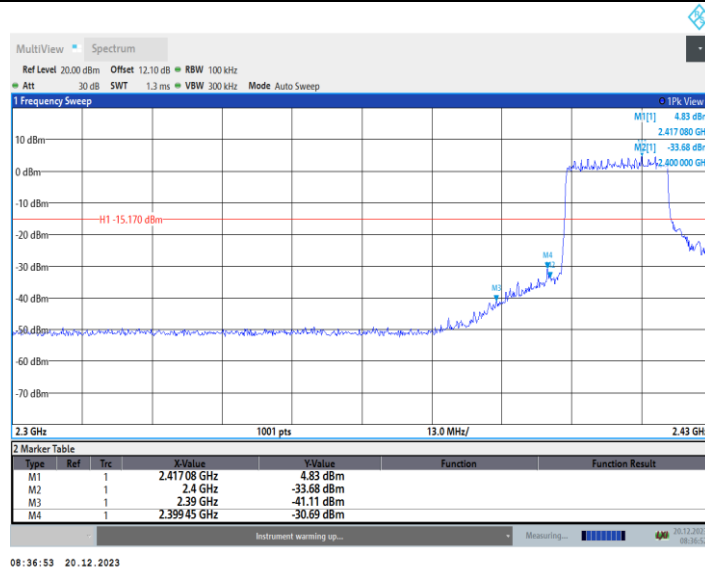
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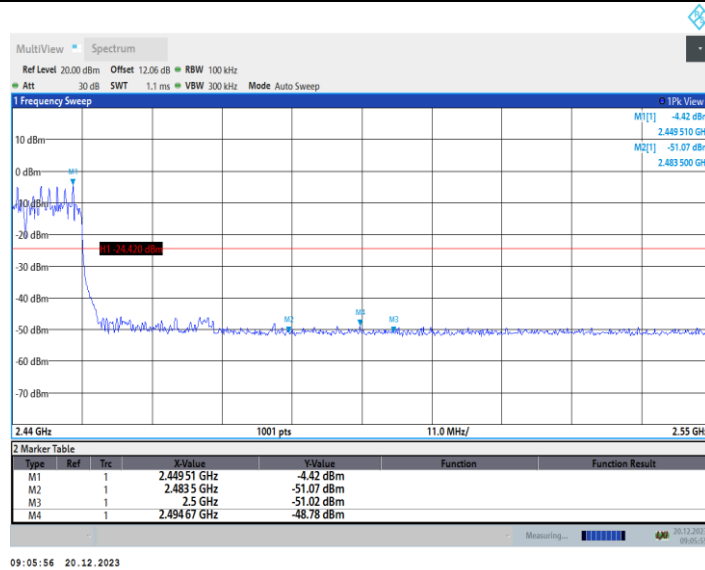


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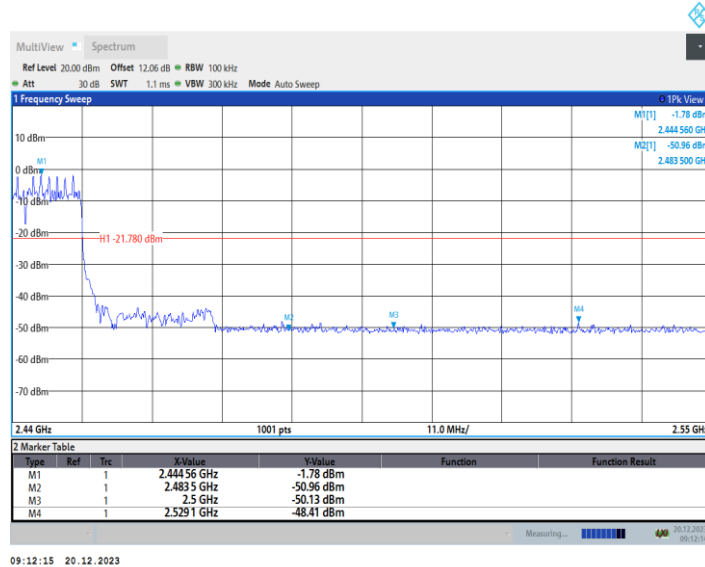
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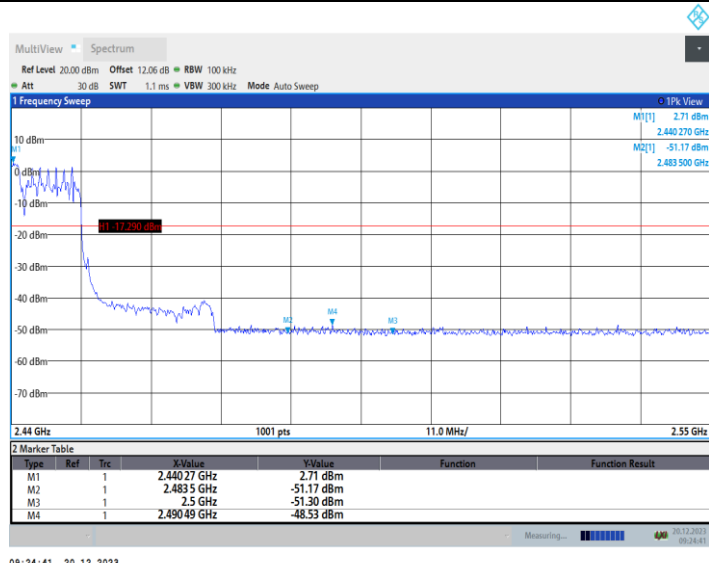
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11AX40MIMO_Ant1_High_2452_52Tone_RU37

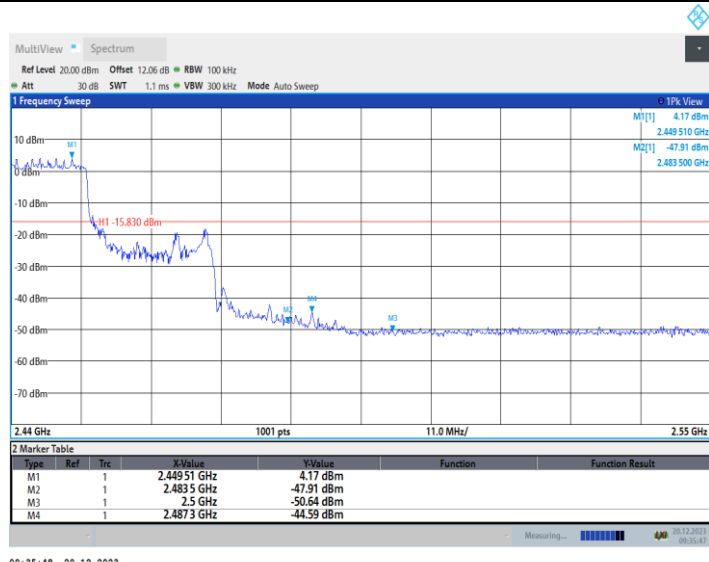


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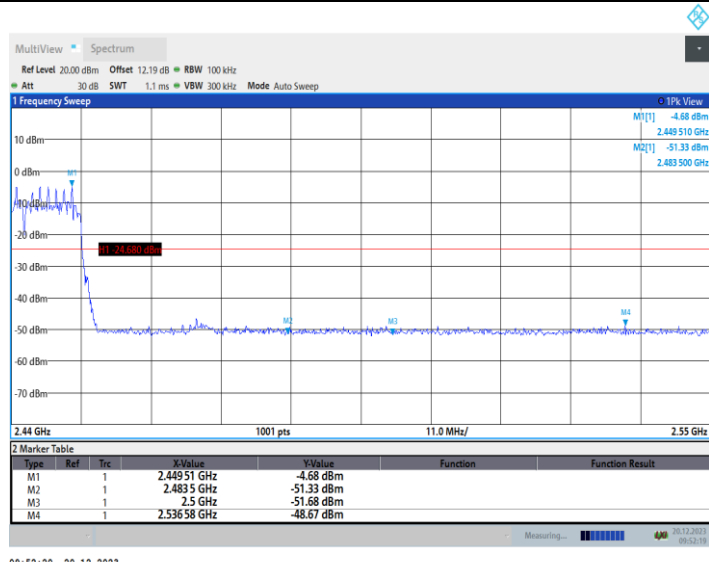
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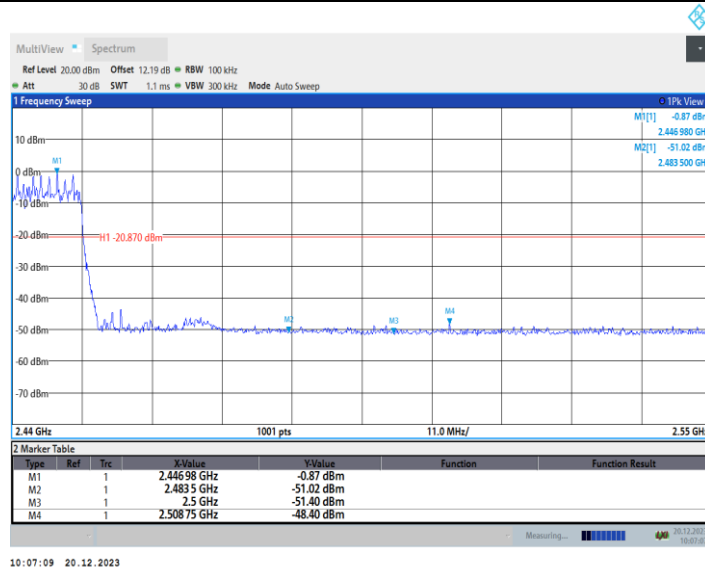
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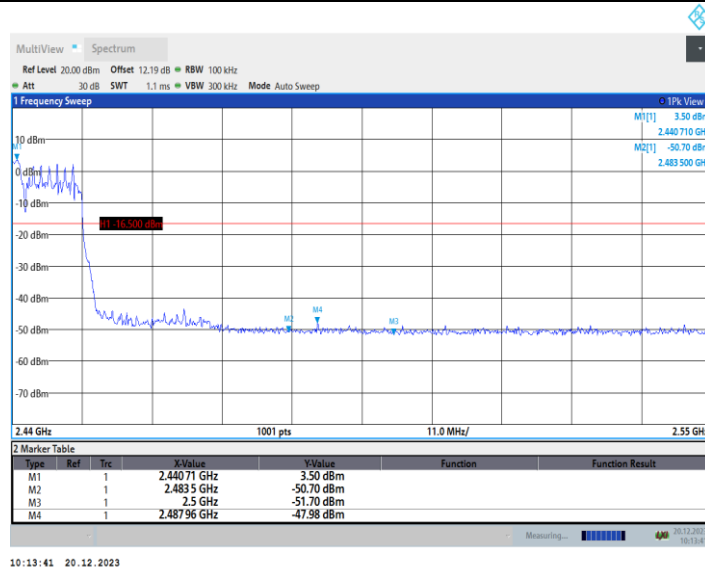
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11AX40MIMO_Ant2_High_2452_52Tone_RU37



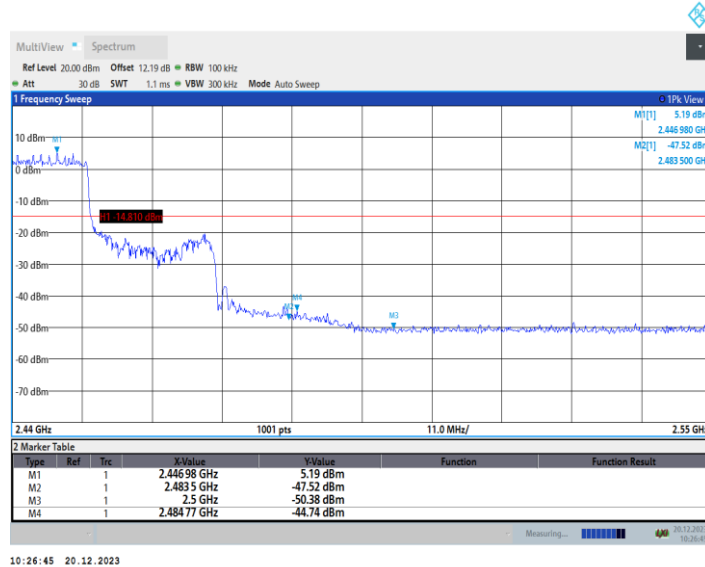
10:07:09 20.12.2023

11AX40MIMO_Ant2_High_2452_106Tone_RU53



10:13:41 20.12.2023

11AX40MIMO_Ant2_High_2452_242Tone_RU61



10:26:45 20.12.2023

10. RADIATED BANDEDGE AND SPURIOUS MEASUREMENT

10.1. LIMITS OF Radiated Bandedge and Spurious Measurement

Table 8 Radiation Emission Test Limit for FCC (9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Table 9 Radiation Emission Test Limit for FCC (Above 1G)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

10.2. TEST PROCEDURE

ANSI C63.10-2013 Clause 11.12

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. For measurement below 1GHz, the EUT was placed on a turntable with 0.8 meter, above ground. For measurement above 1 GHz, test at FAR, the EUT is placed on a non-conductive table, which is 1.5 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;

(3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.
 Set RBW = 1 MHz, and VBW= 1/T (on time) for average measurement.

10.3.TEST DATA

9 kHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Table 10 Radiated Emission Test Data 9k Hz-30MHz

Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBµV/m)	Level (dBµV/m)	Polarity (H/V)	Limit (dBµV/m)	Margin (dB)	Note
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

30MHz-1GHz

Worst case is shown below for 30MHz-1GHz only.

The emissions don't show in following result tables are more than 20dB below the limits.

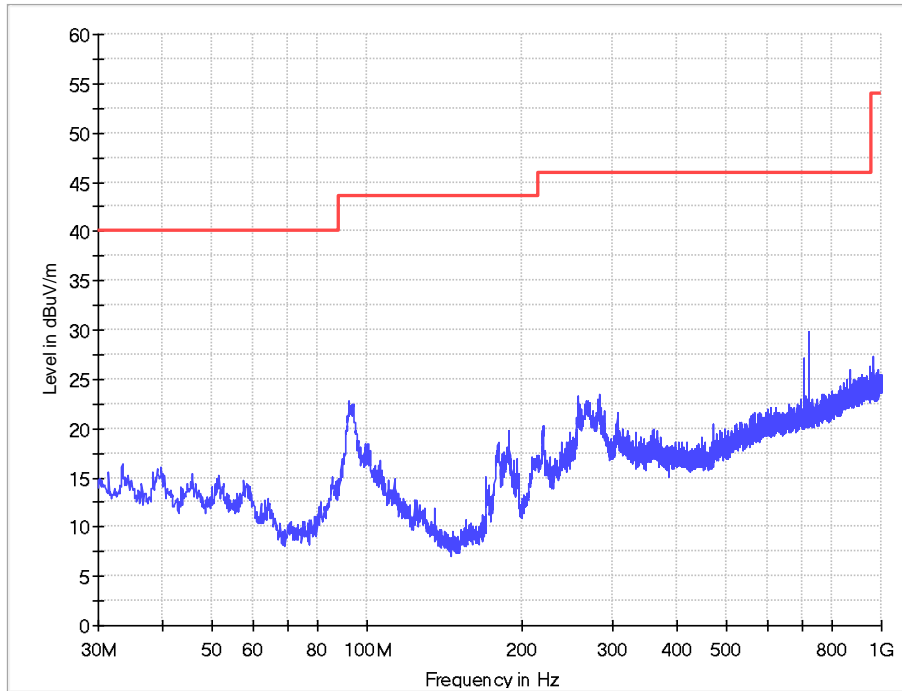
Table 11 Radiated Emission Test Data 30MHz-1GHz

Frequency (MHz)	Cable Loss +preamp (dB)	Antenna Factor (dB)	Reading (dBµV/m)	Level (dBµV/m)	Polarity (Horizontal/Vertical)	Limit (dBµV/m)	Margin (dB)	Note
39.807	0.6	12.3	3.3	16.2	Horizontal	40.0	23.8	QP
91.972	1.2	11.9	7.5	20.6	Horizontal	43.5	22.9	QP
179.811	1.6	9.0	6.8	17.4	Horizontal	43.5	26.1	QP
188.756	1.6	9.7	6.3	17.6	Horizontal	43.5	25.9	QP
282.415	2.0	12.7	5.9	20.6	Horizontal	46.0	25.4	QP
722.256	3.4	18.8	6.6	28.8	Horizontal	46.0	17.2	QP
36.682	0.6	12.3	12.4	25.3	Vertical	40	14.7	QP
39.376	0.6	12.3	14.9	27.8	Vertical	40	12.2	QP
45.843	0.8	13.6	6.3	20.7	Vertical	40	19.3	QP
58.346	0.8	13.0	9.8	23.6	Vertical	40	16.4	QP
91.756	1.2	11.9	14.7	27.8	Vertical	43.5	15.7	QP
185.846	1.5	9.7	11.4	22.6	Vertical	43.5	20.9	QP

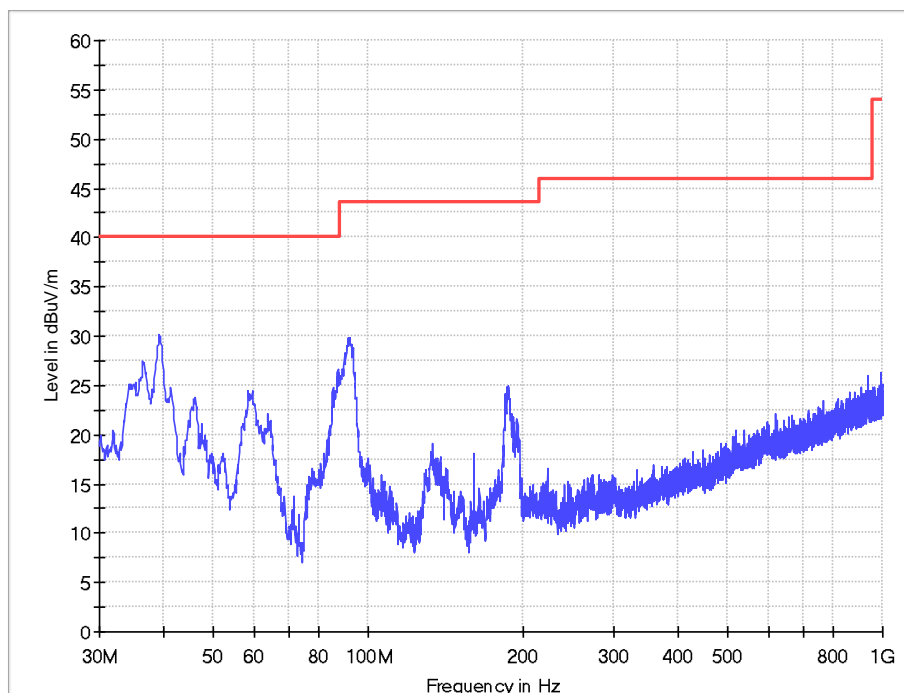
Remark: Emission level (dBuV)=Read Value(dBuV/m) + Antenna Factor(dB)+ Cable Loss +preamp(dB)

30MHz-1GHz

Horizontal



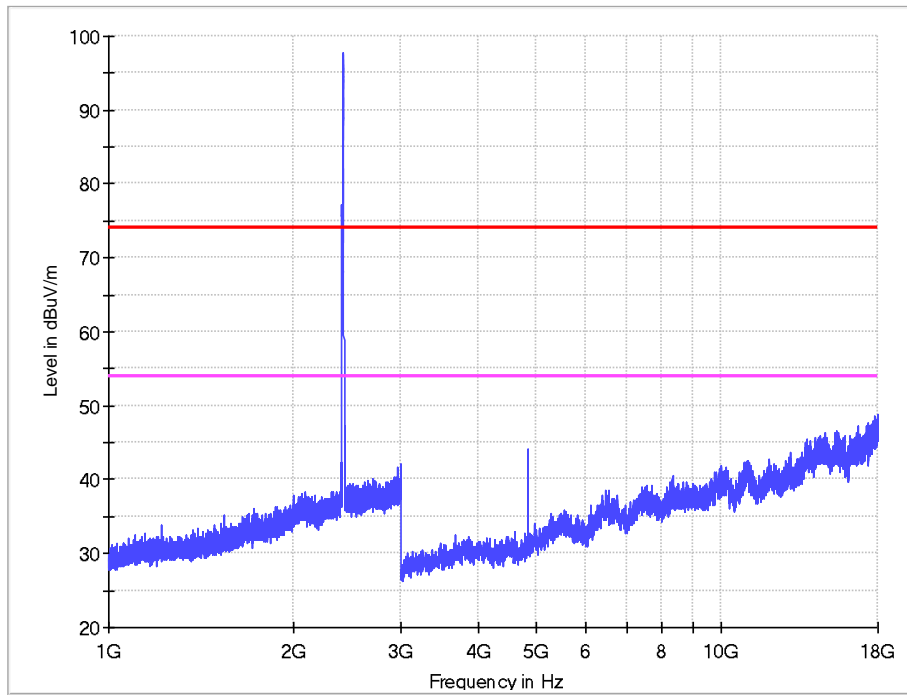
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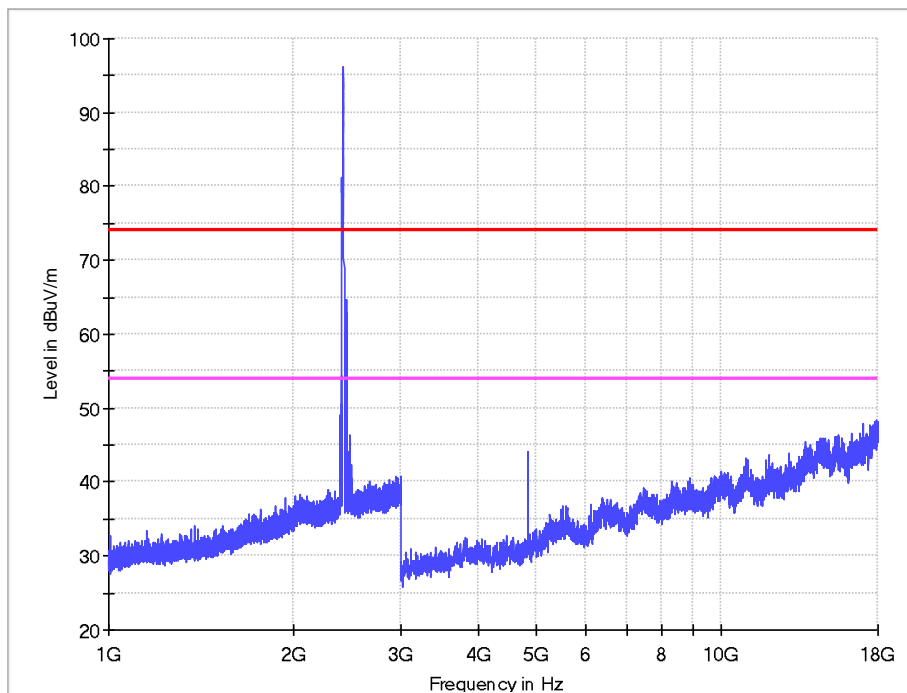
1-18G

802.11b CH1

Horizontal



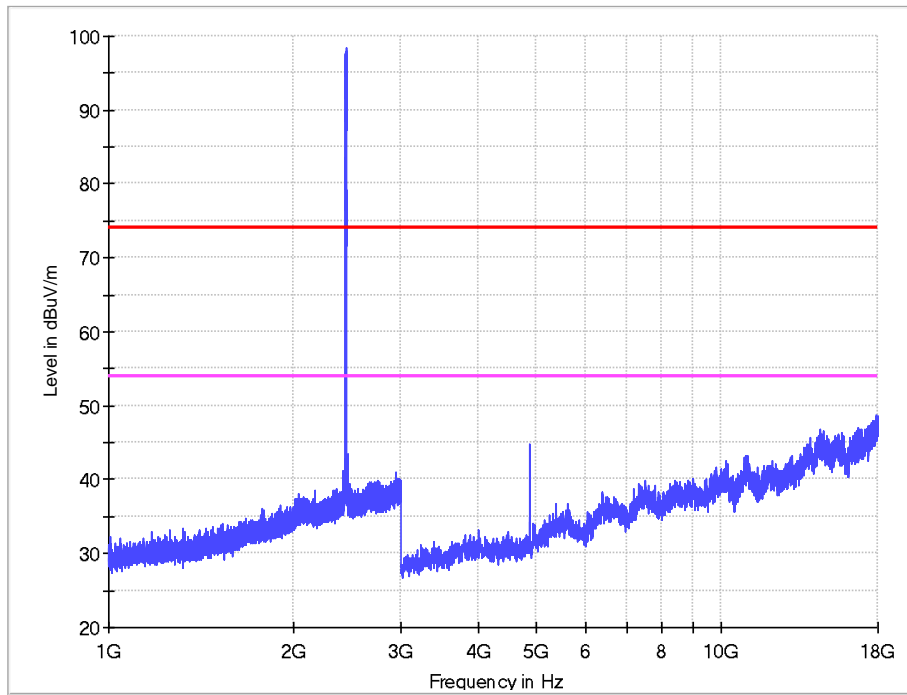
Vertical



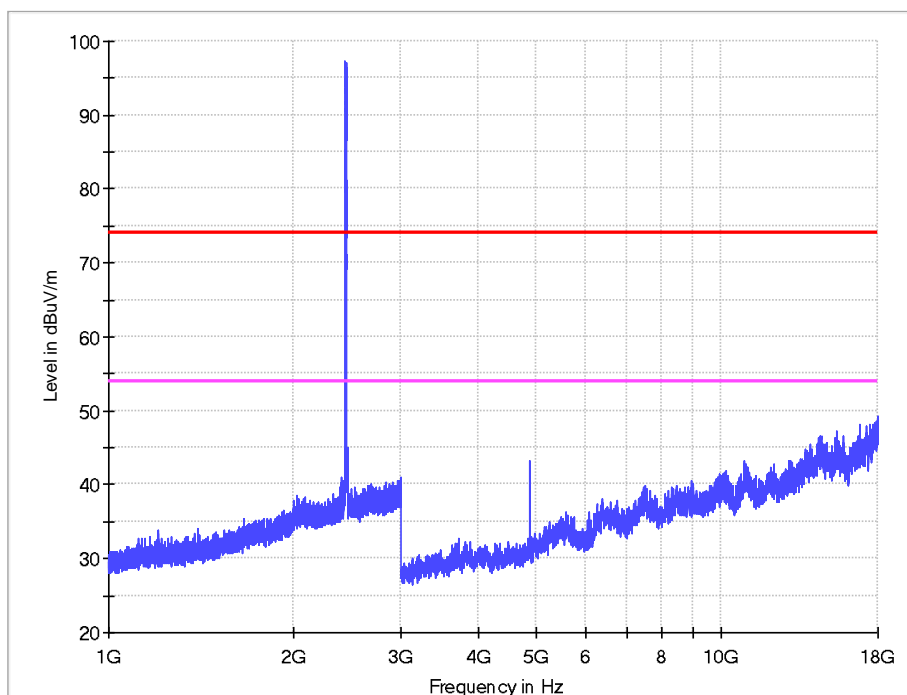
1-18G

802.11b CH6

Horizontal



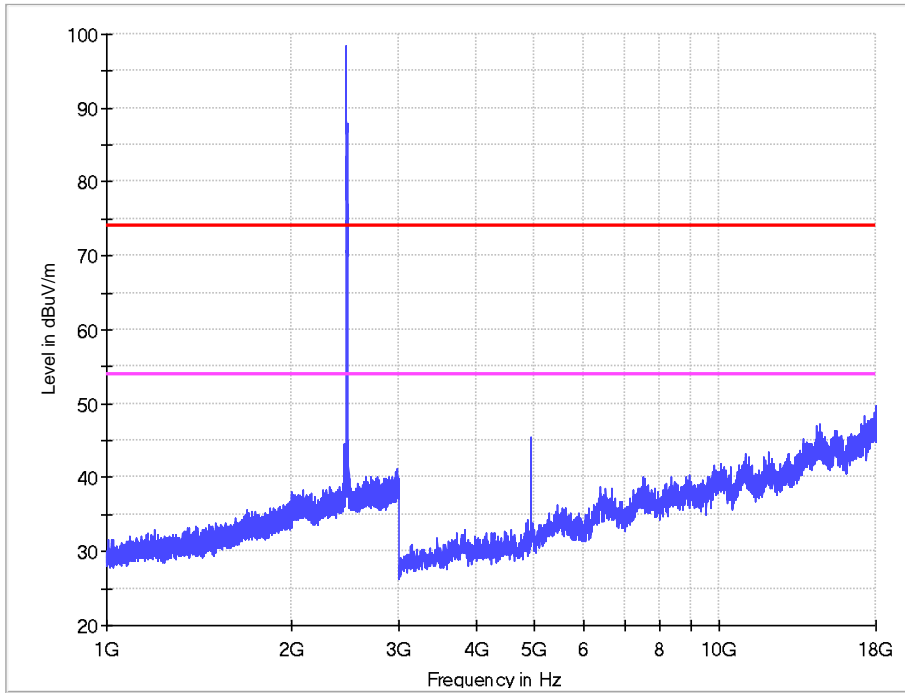
Vertical



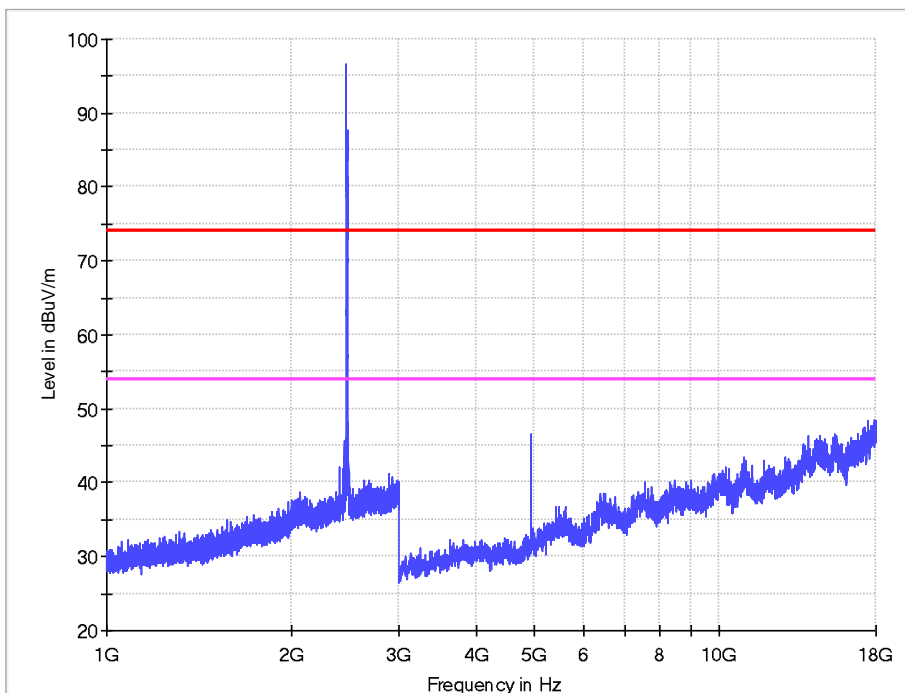
1-18G

802.11b CH11

Horizontal



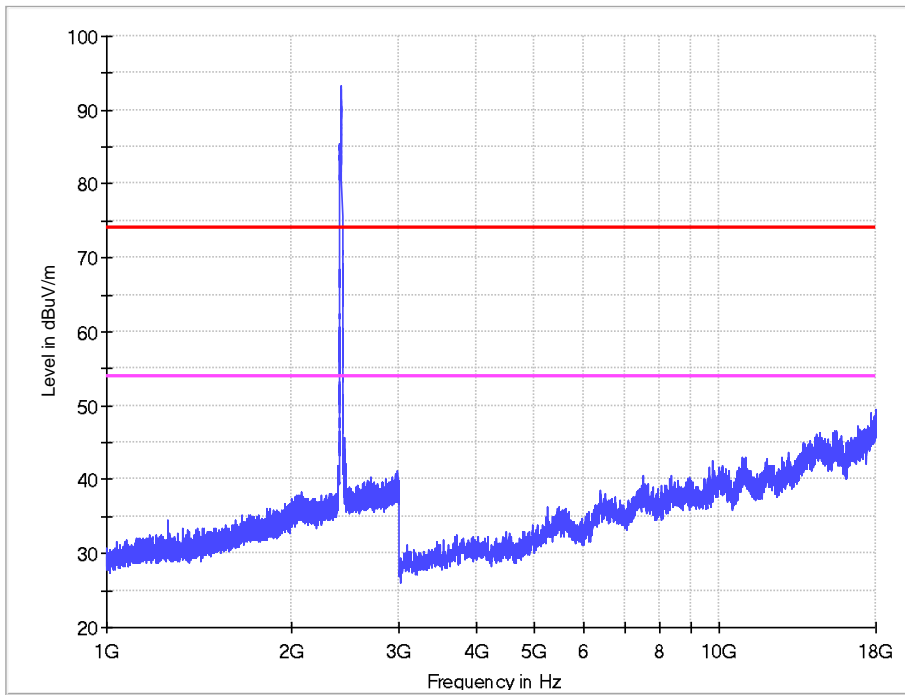
Vertical



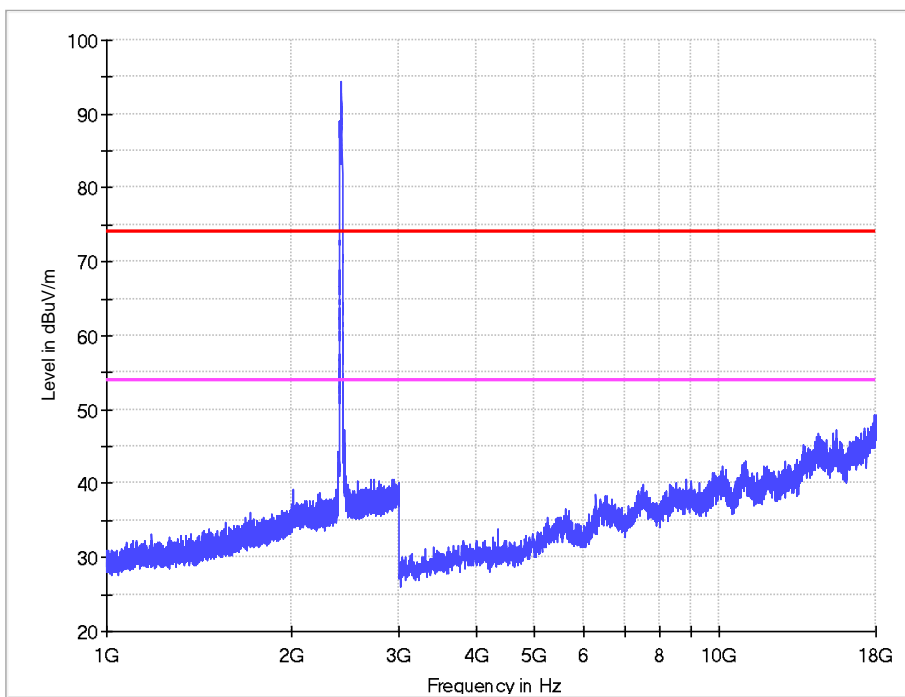
1-18G

802.11g CH1

Horizontal



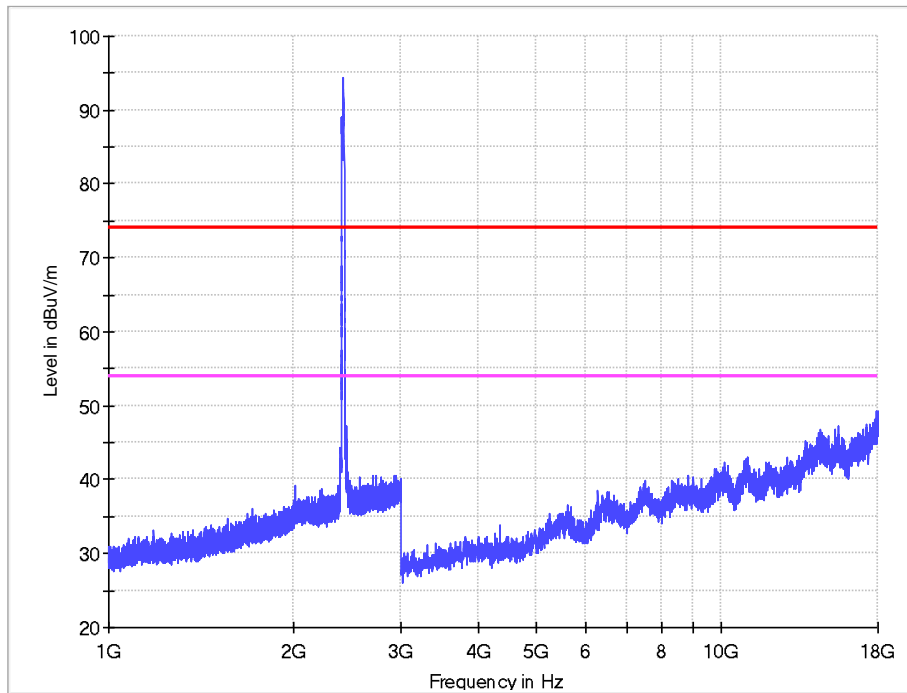
Vertical



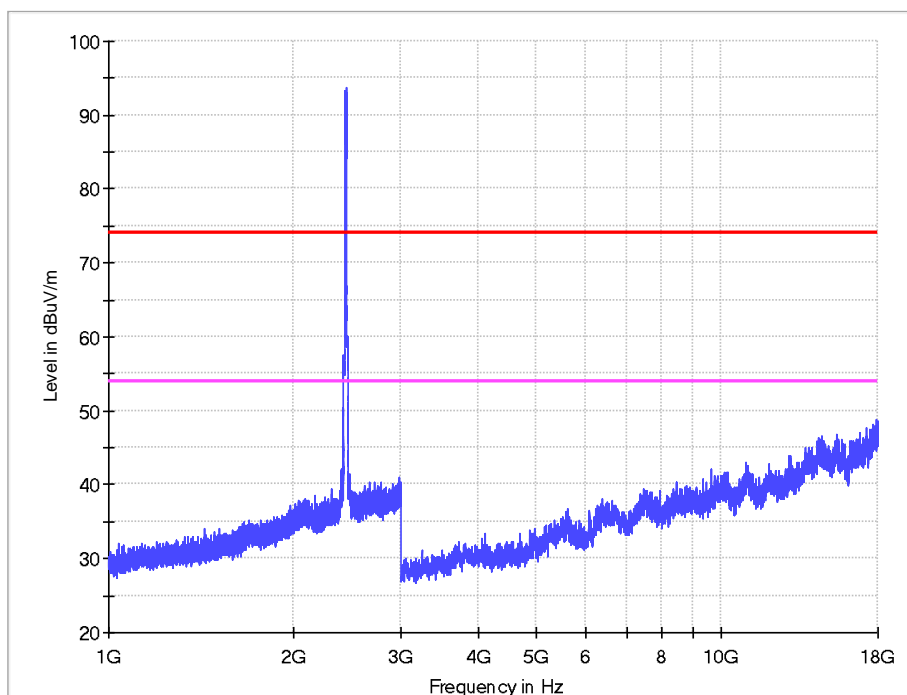
1-18G

802.11g CH6

Horizontal



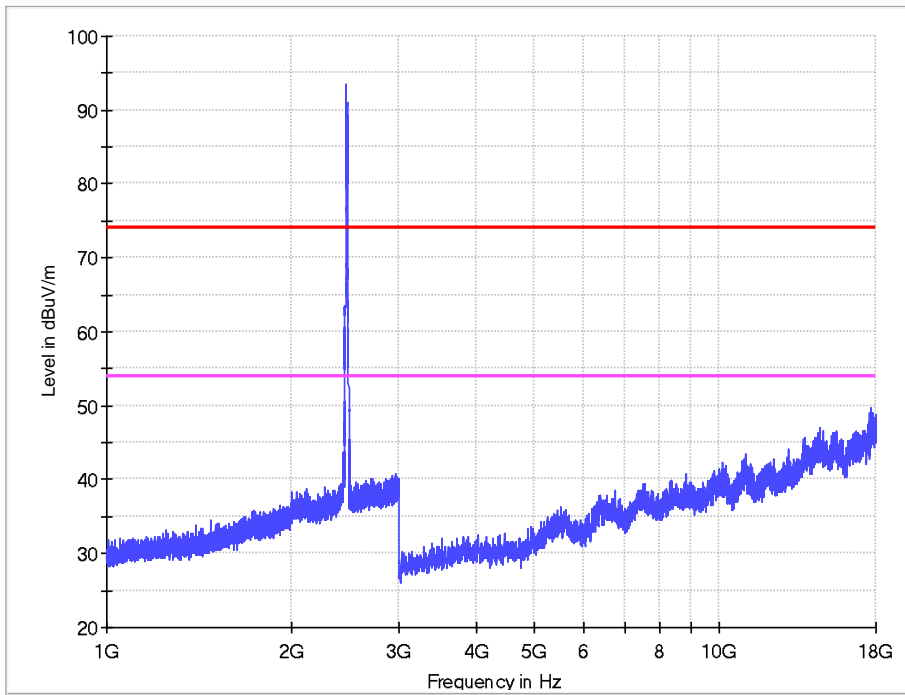
Vertical



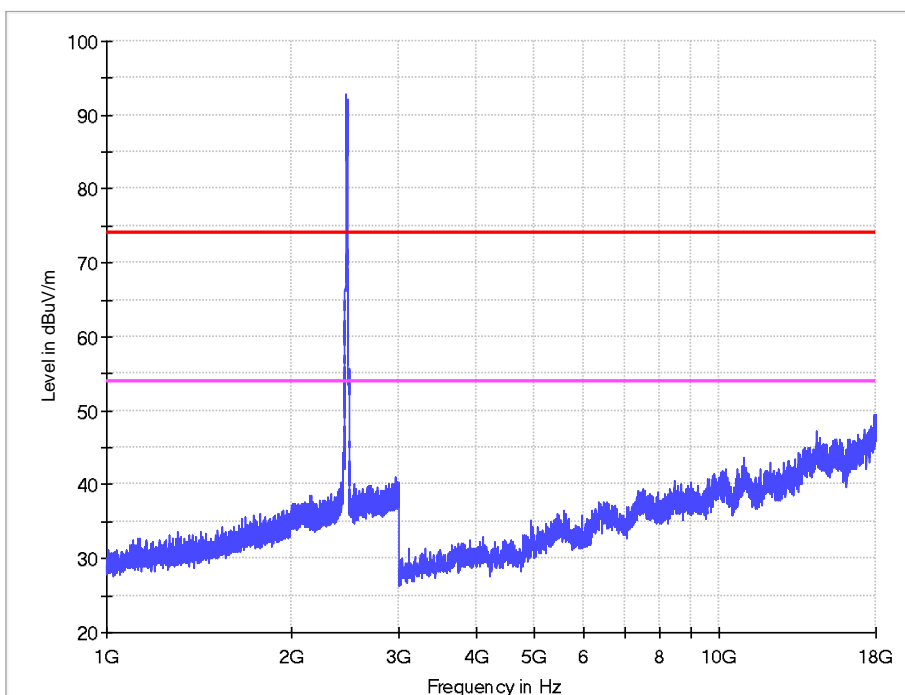
1-18G

802.11g CH11

Horizontal



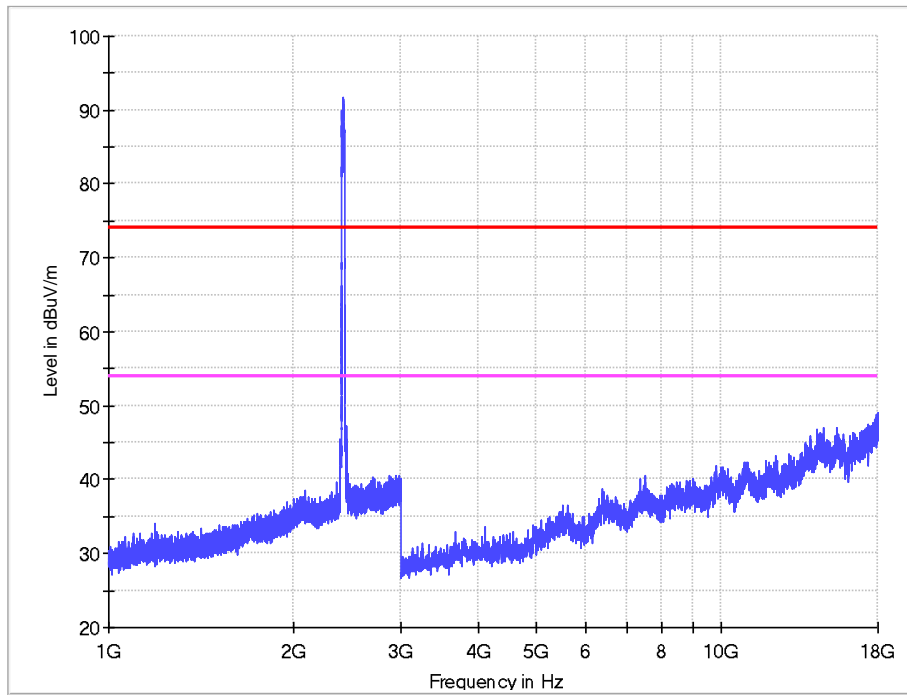
Vertical



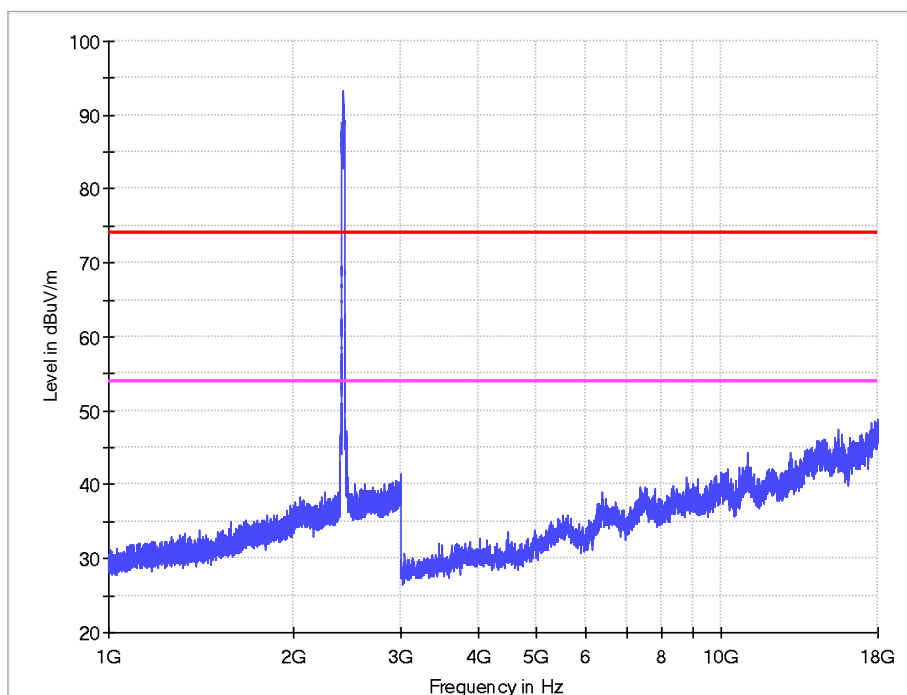
1-18G

802.11n-HT20 CH1

Horizontal



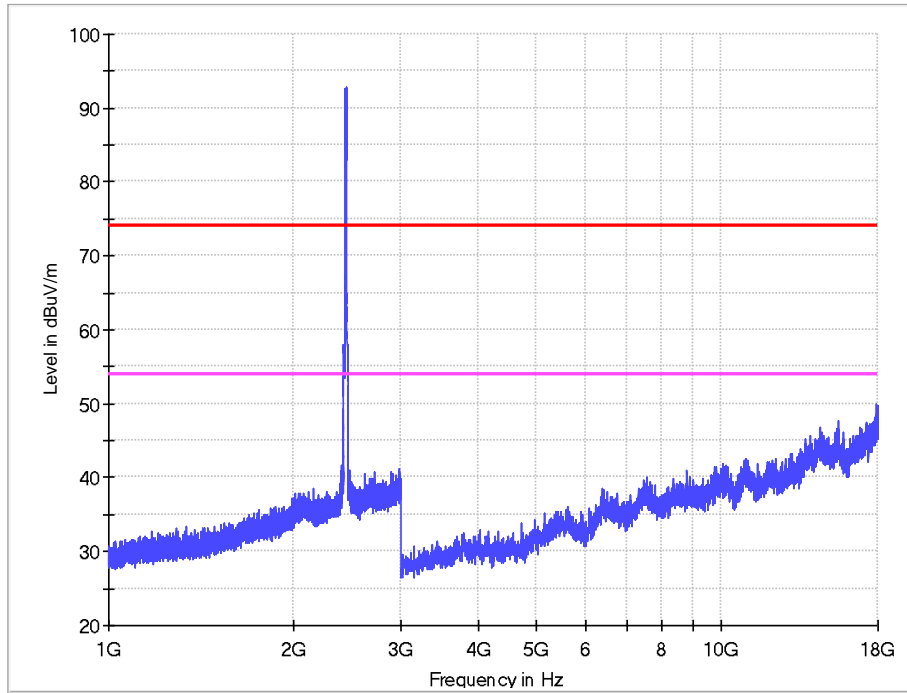
Vertical



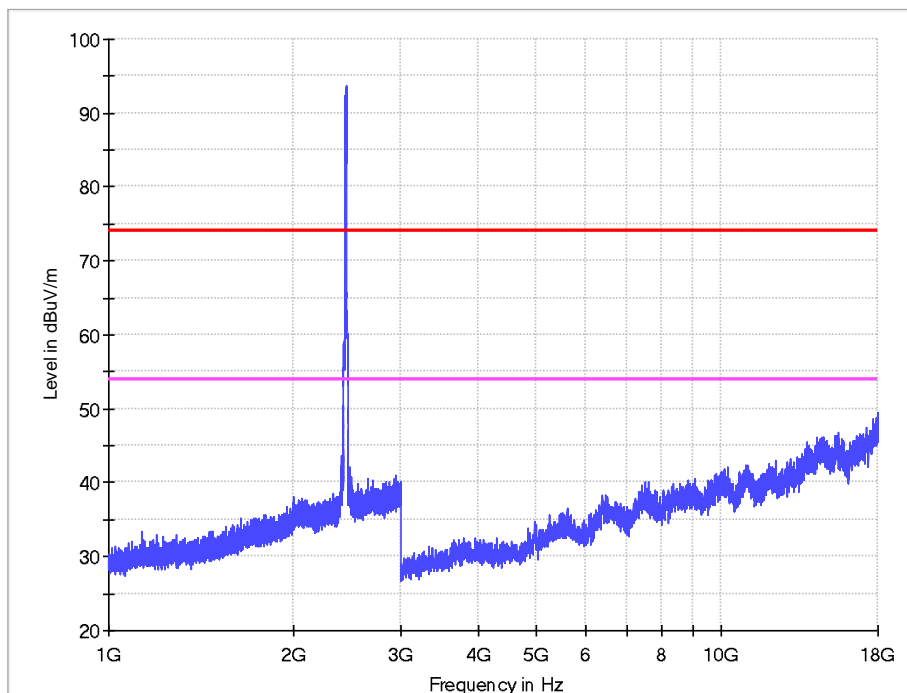
1-18G

802.11n-HT20 CH6

Horizontal



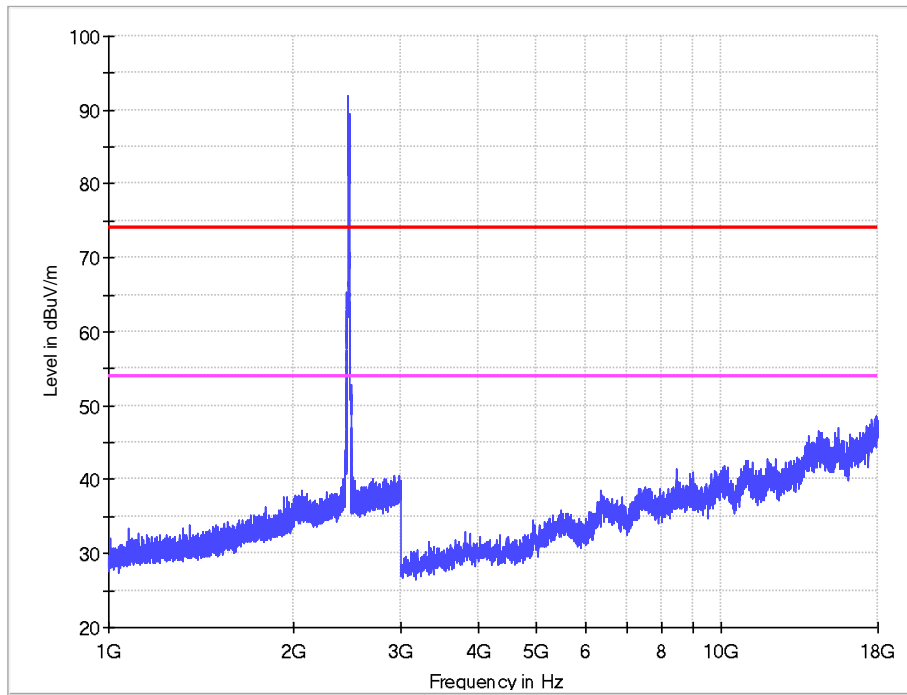
Vertical



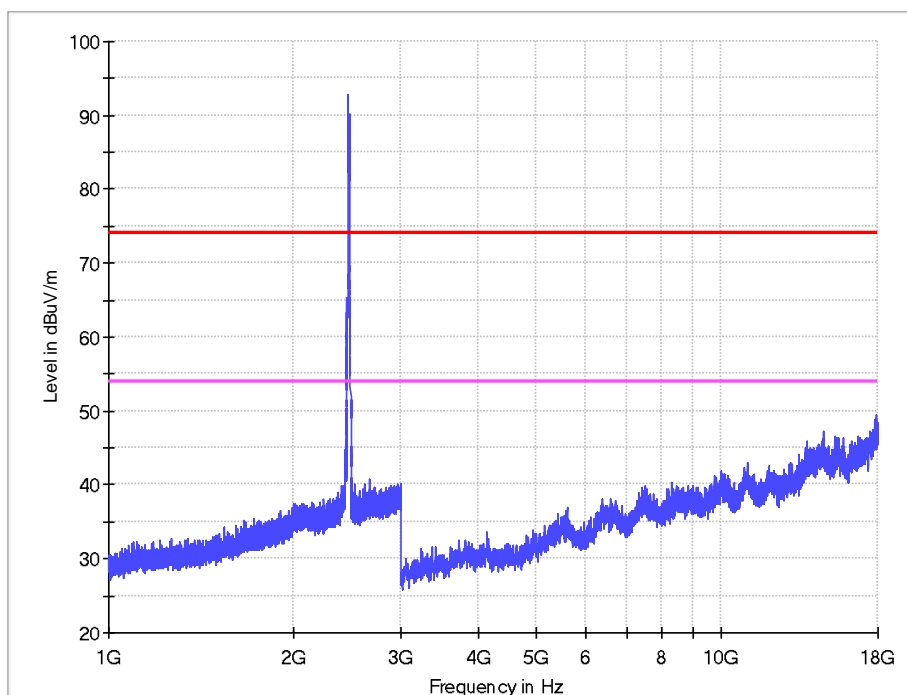
1-18G

802.11n-HT20 CH11

Horizontal



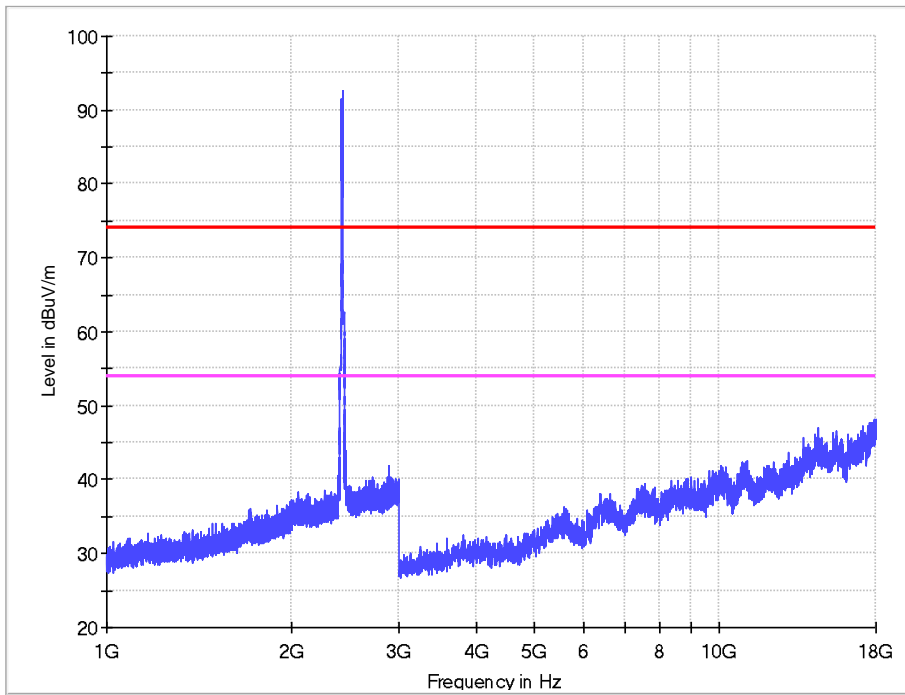
Vertical



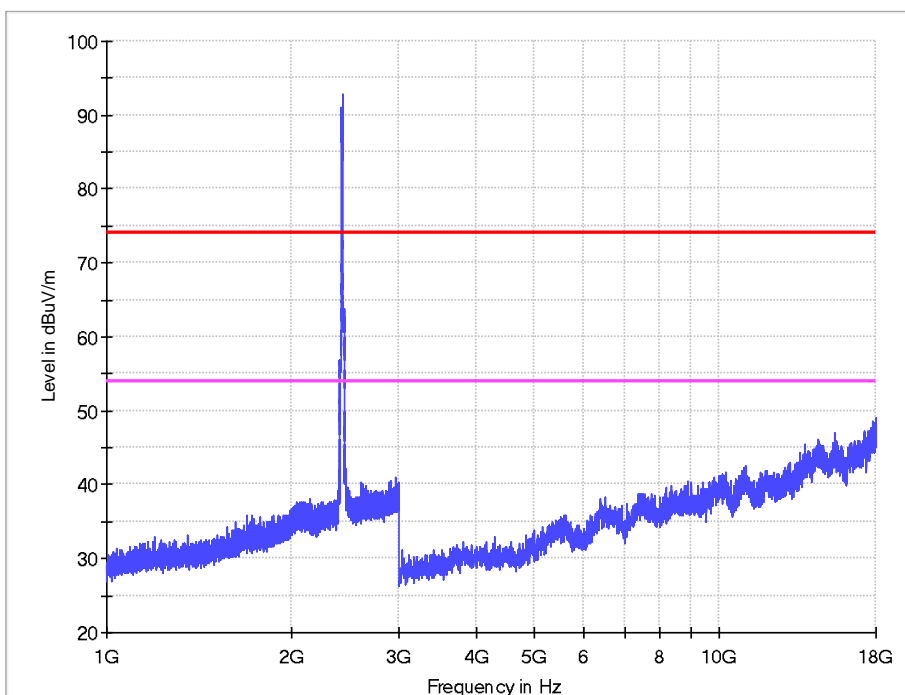
1-18G

802.11n-HT40 CH3

Horizontal



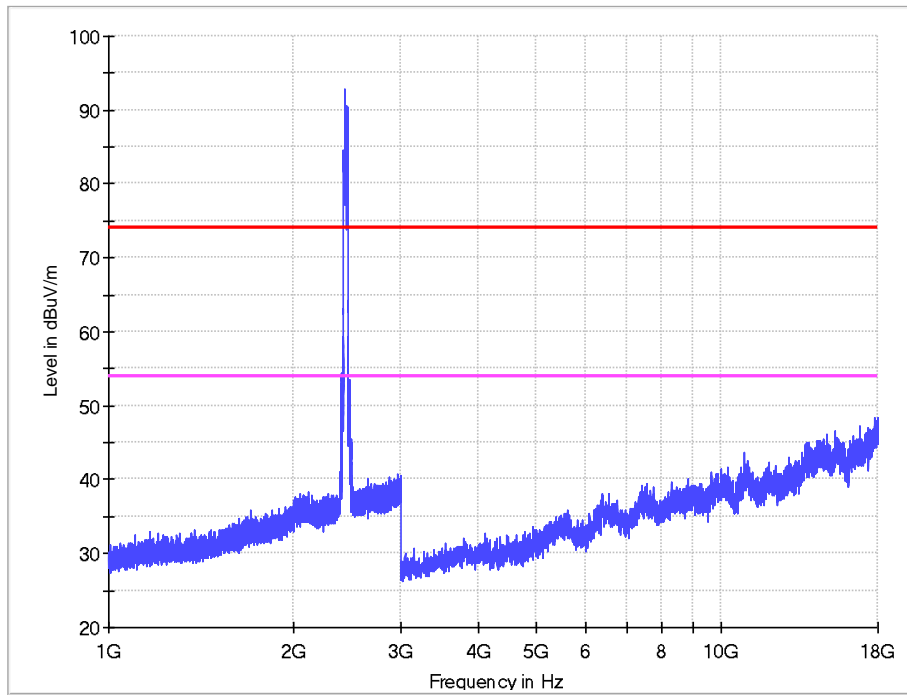
Vertical



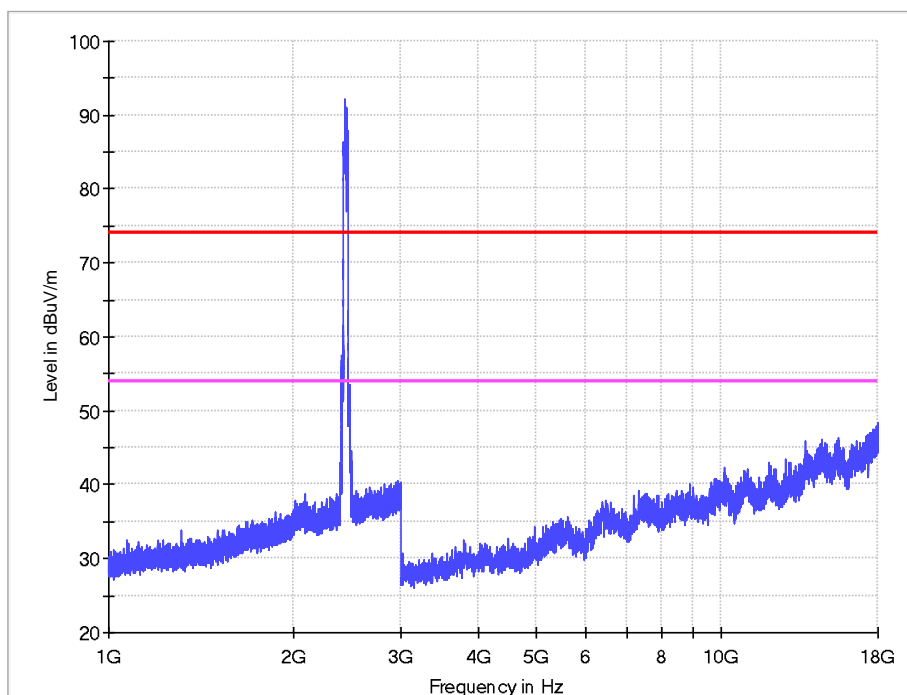
1-18G

802.11n-HT40 CH6

Horizontal



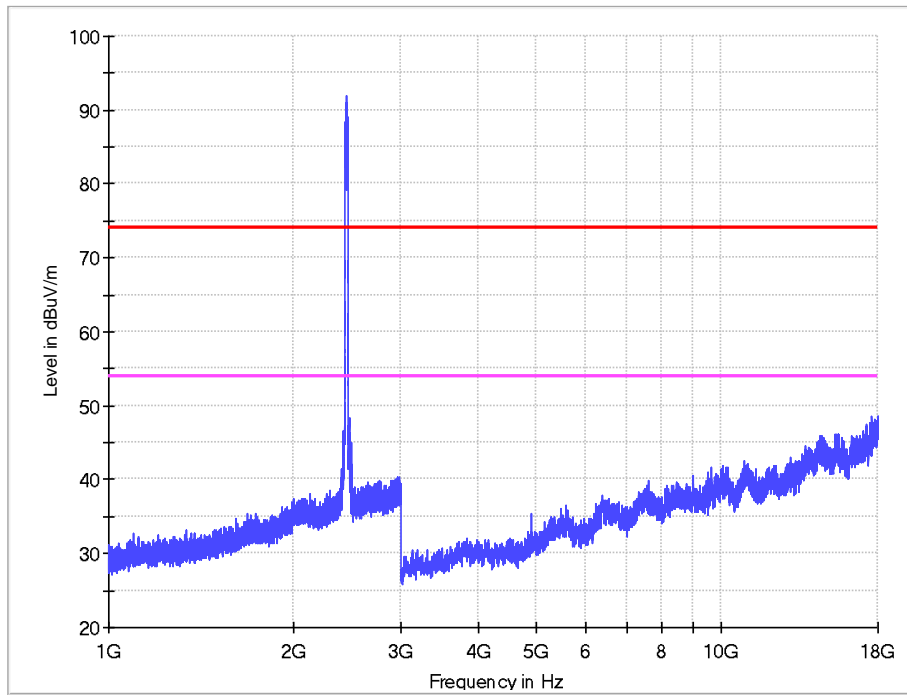
Vertical



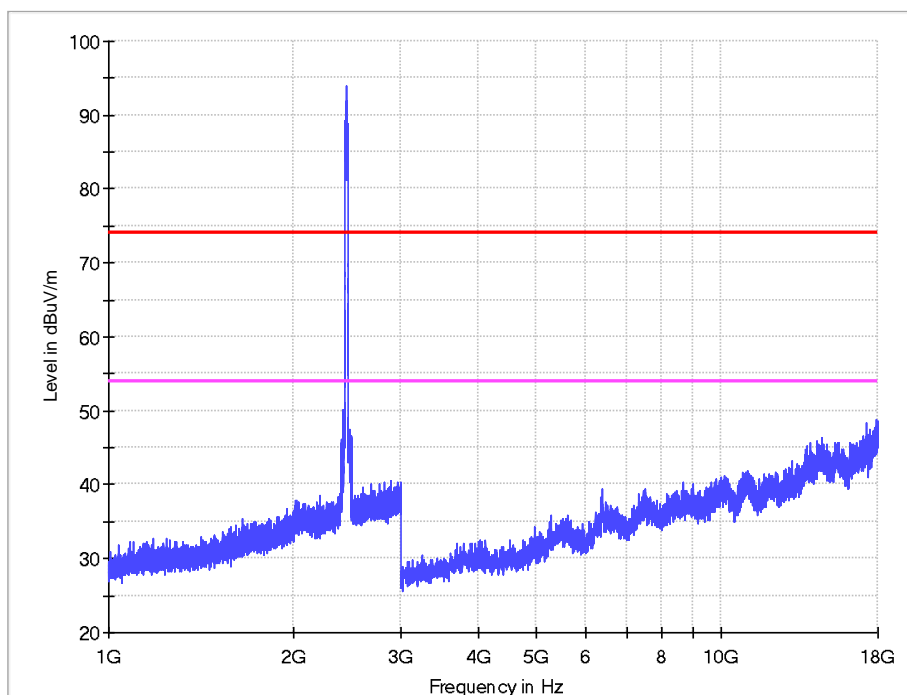
1-18G

802.11n-HT40 CH9

Horizontal



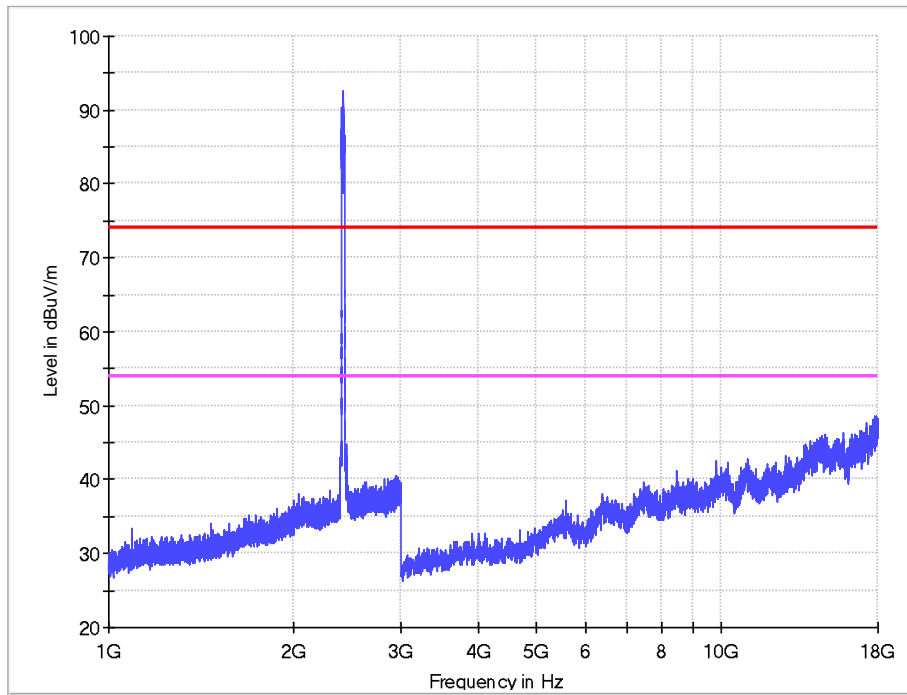
Vertical



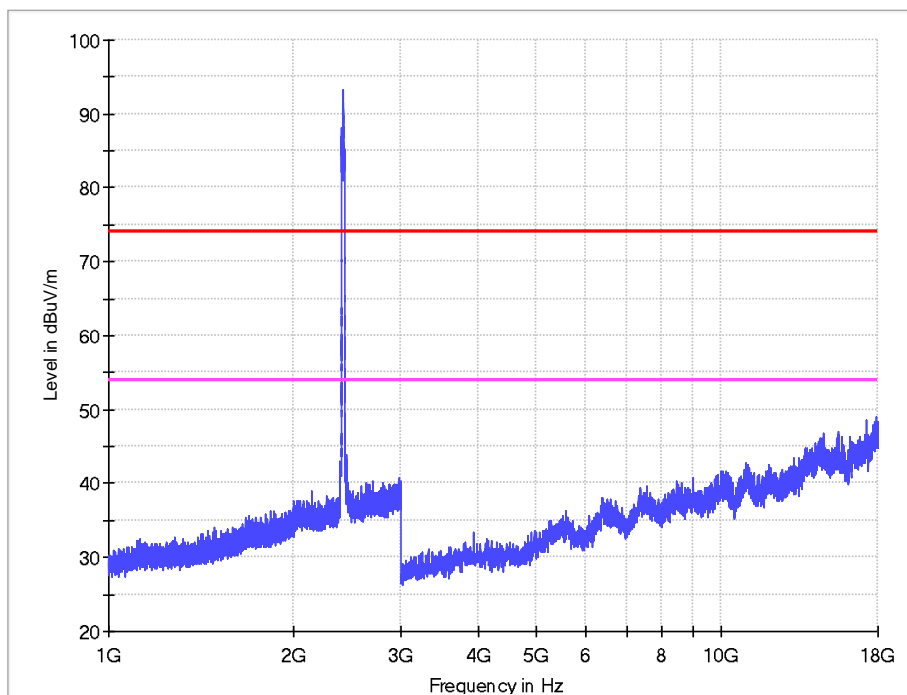
1-18G

802.11ac-VHT20 CH1

Horizontal



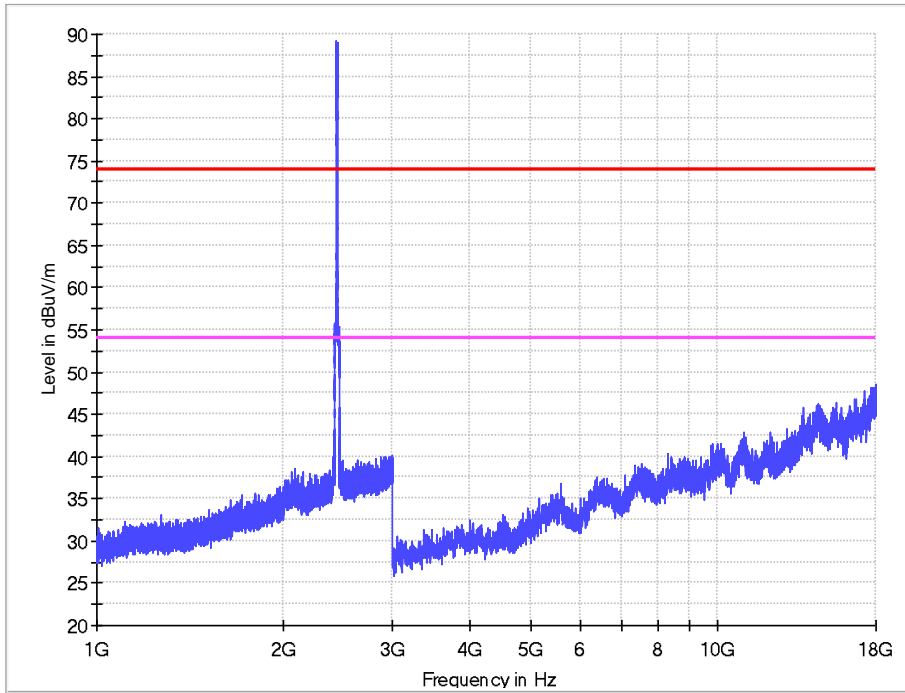
Vertical



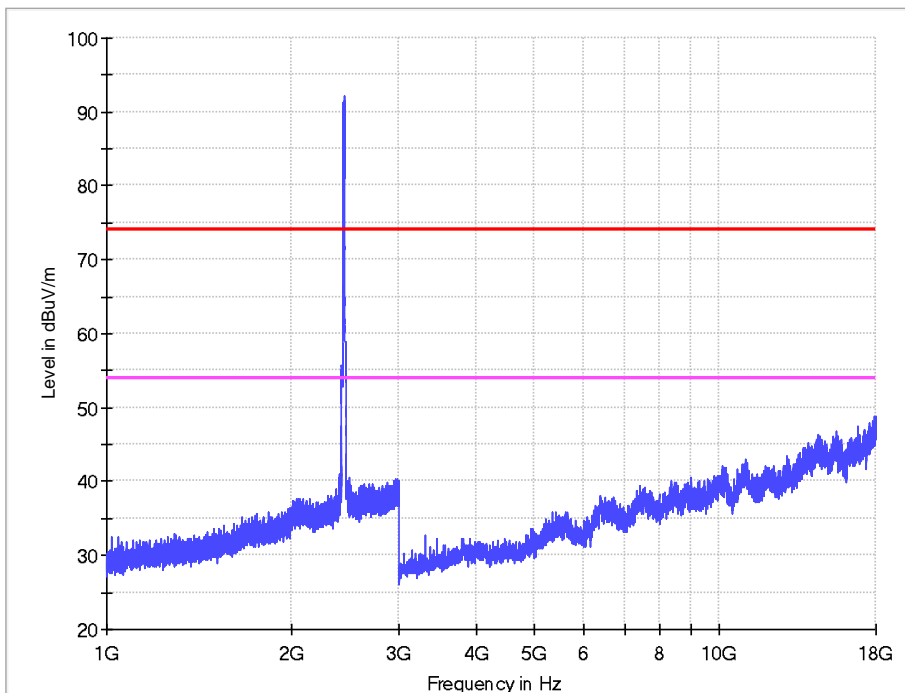
1-18G

802.11ac-VHT20 CH6

Horizontal



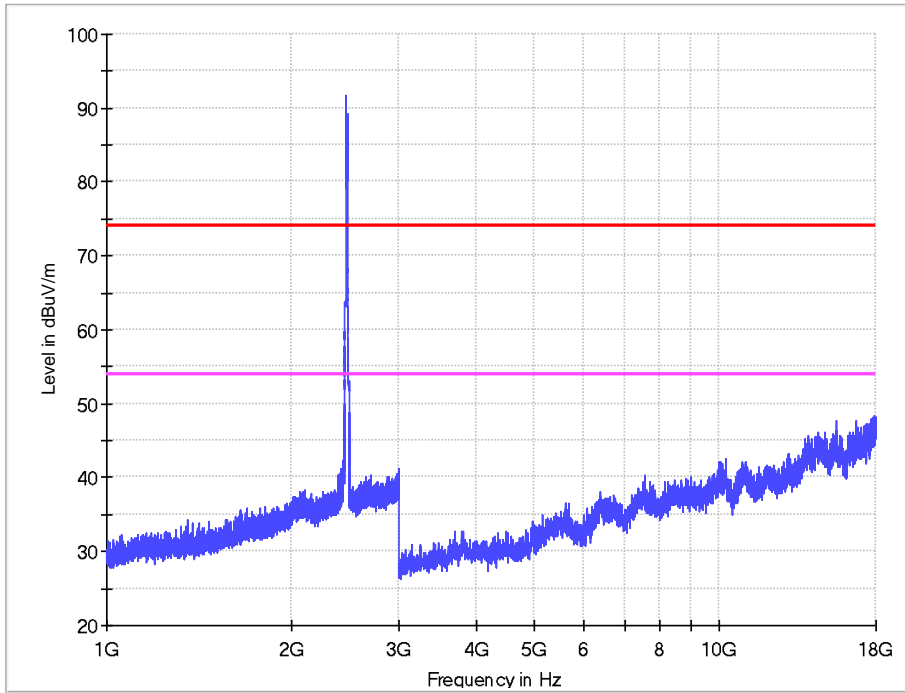
Vertical



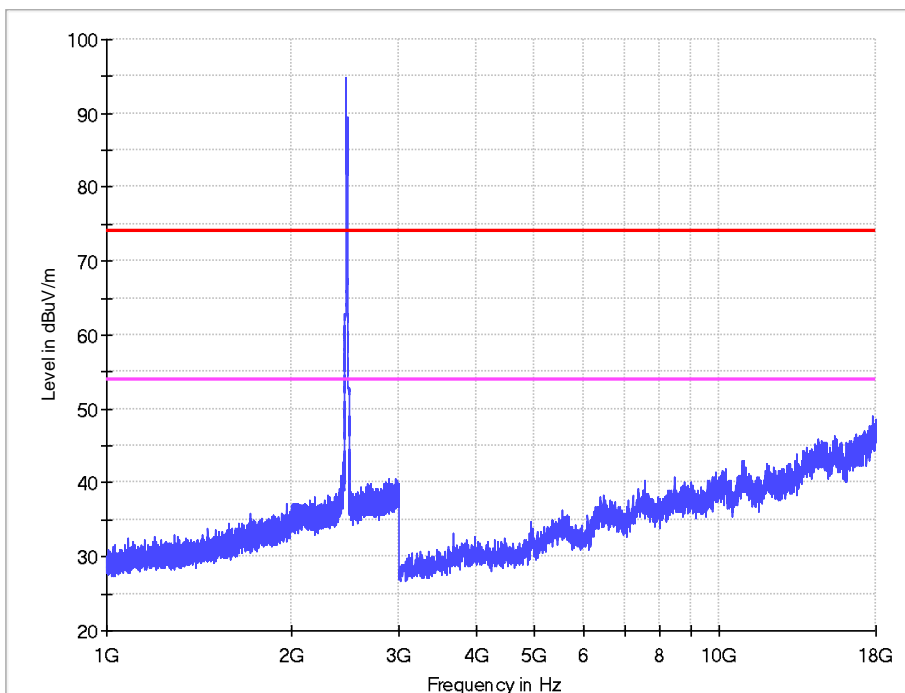
1-18G

802.11ac-VHT20 CH11

Horizontal



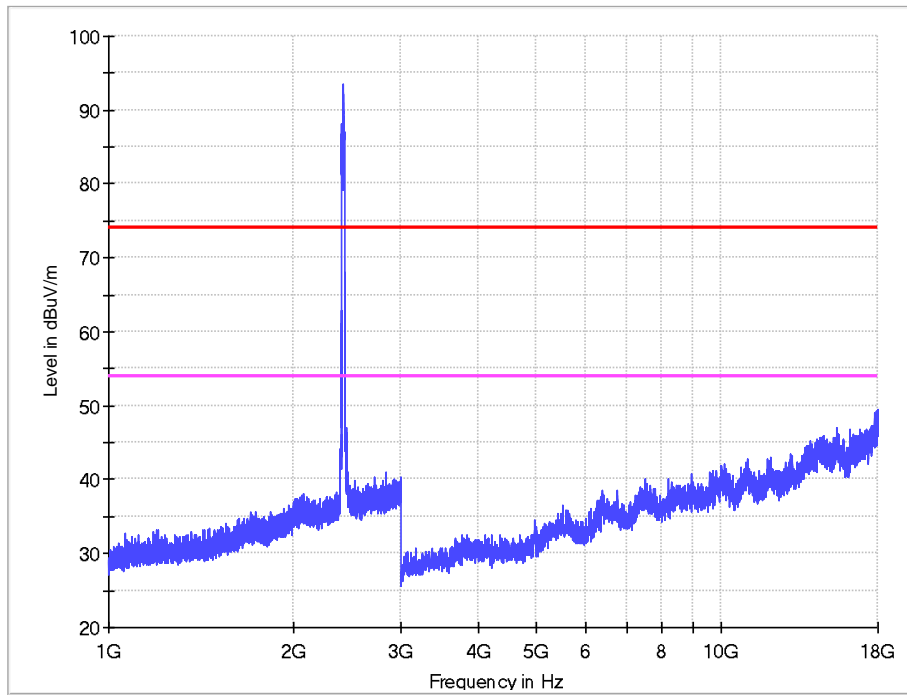
Vertical



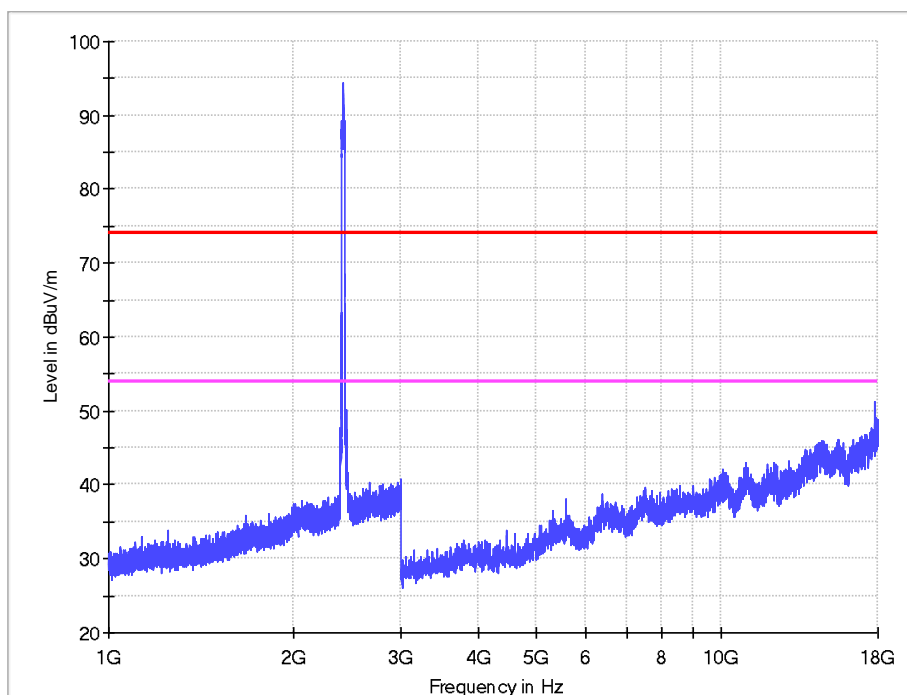
1-18G

802.11ax-HEW20 CH1

Horizontal



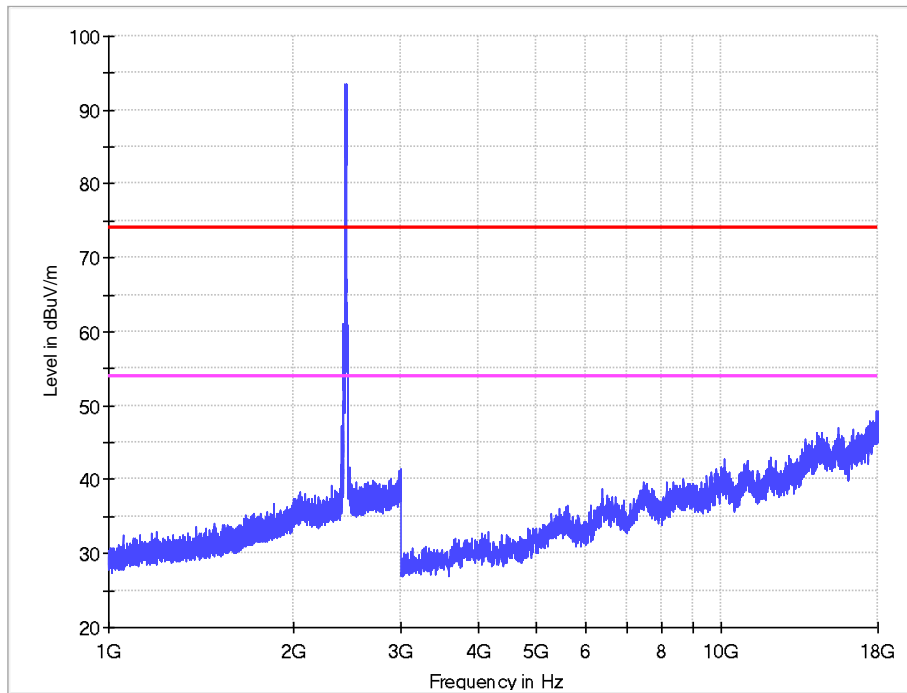
Vertical



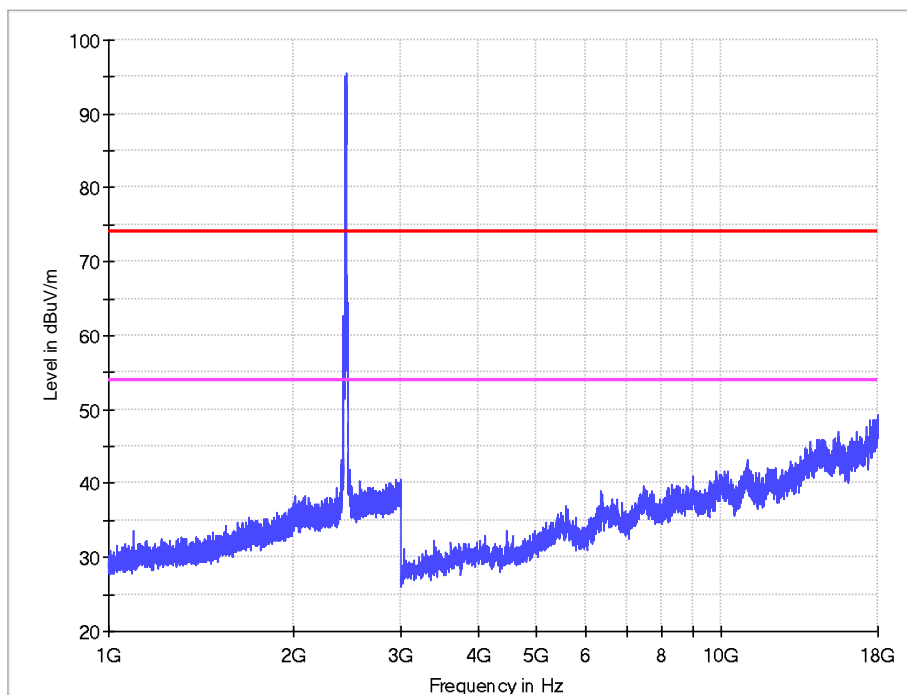
1-18G

802.11ax-HEW20 CH6

Horizontal



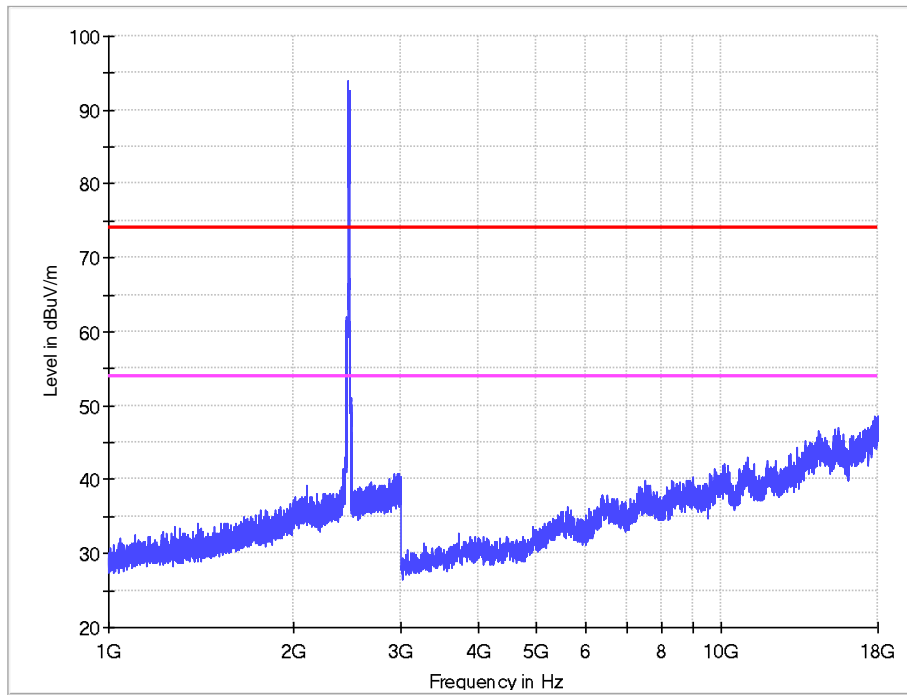
Vertical



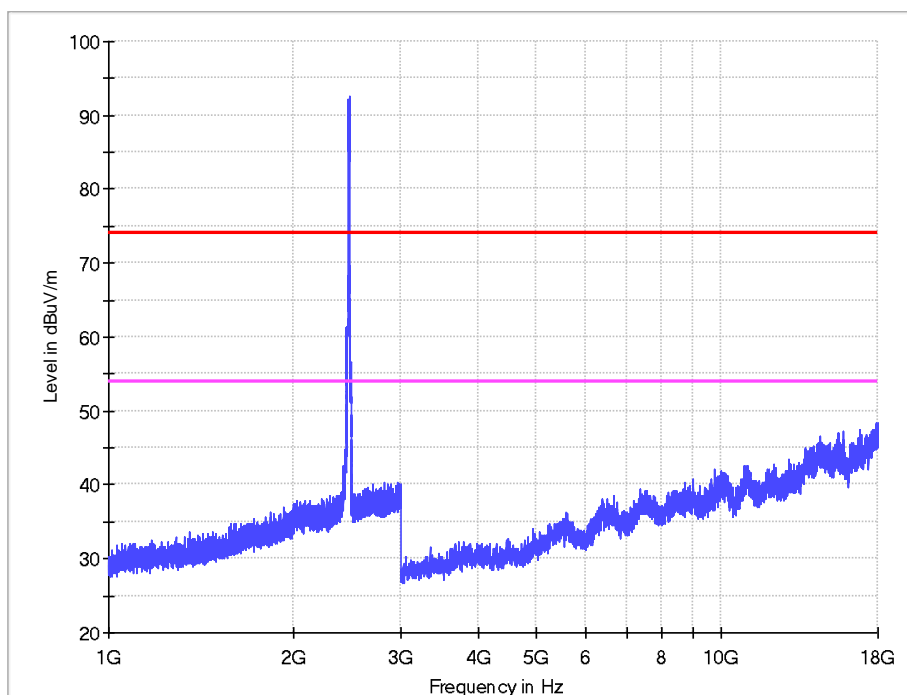
1-18G

802.11ax-HEW20 CH11

Horizontal



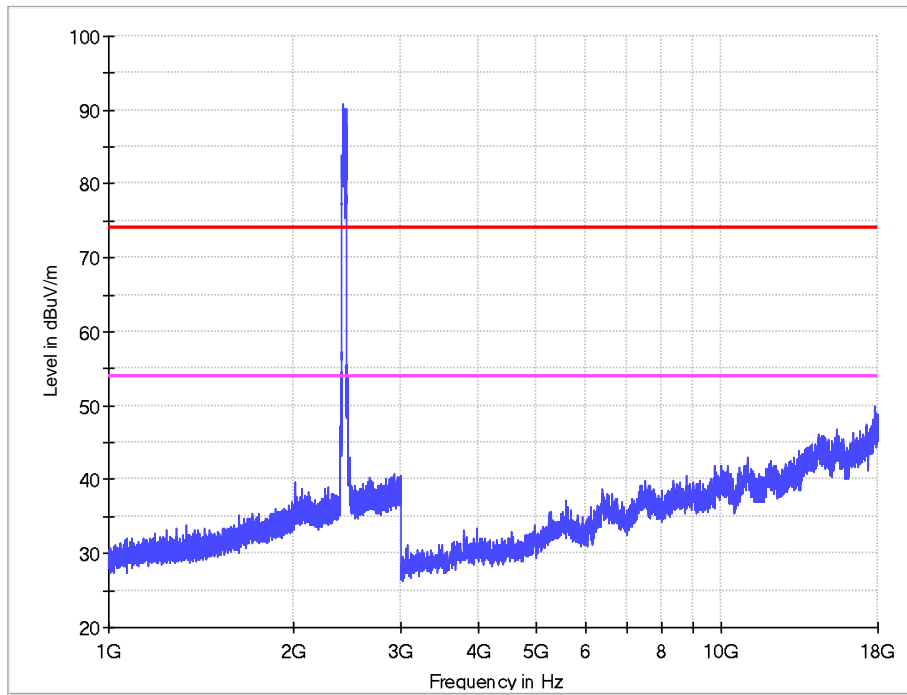
Vertical



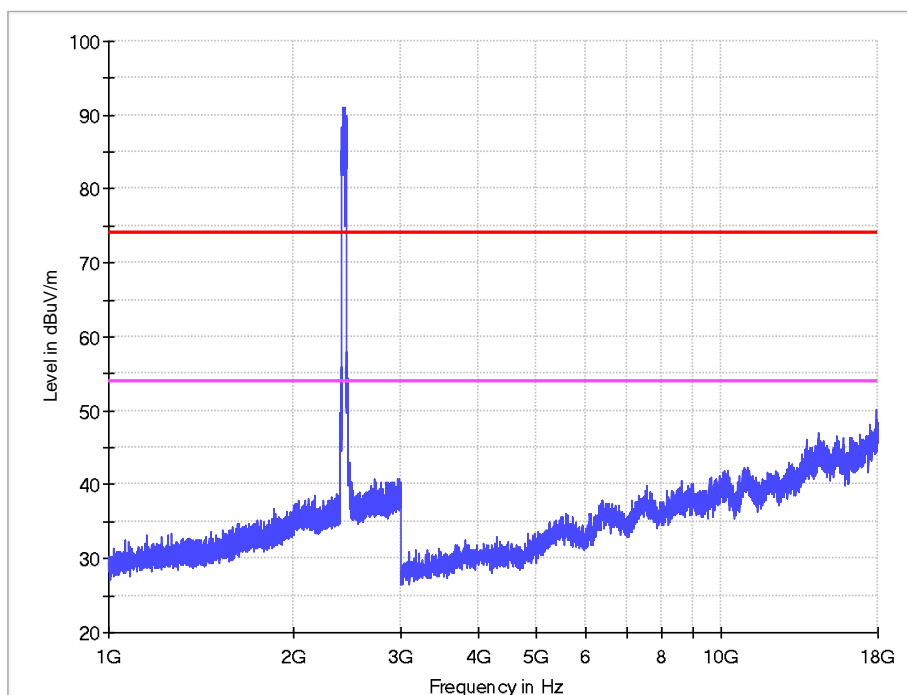
1-18G

802.11ac-VHT40 CH3

Horizontal



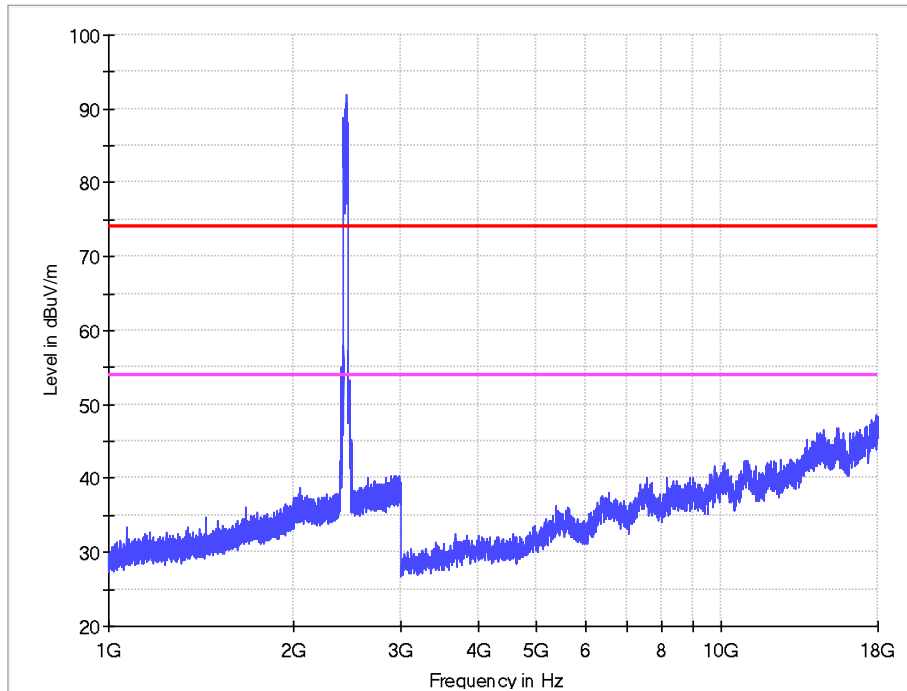
Vertical



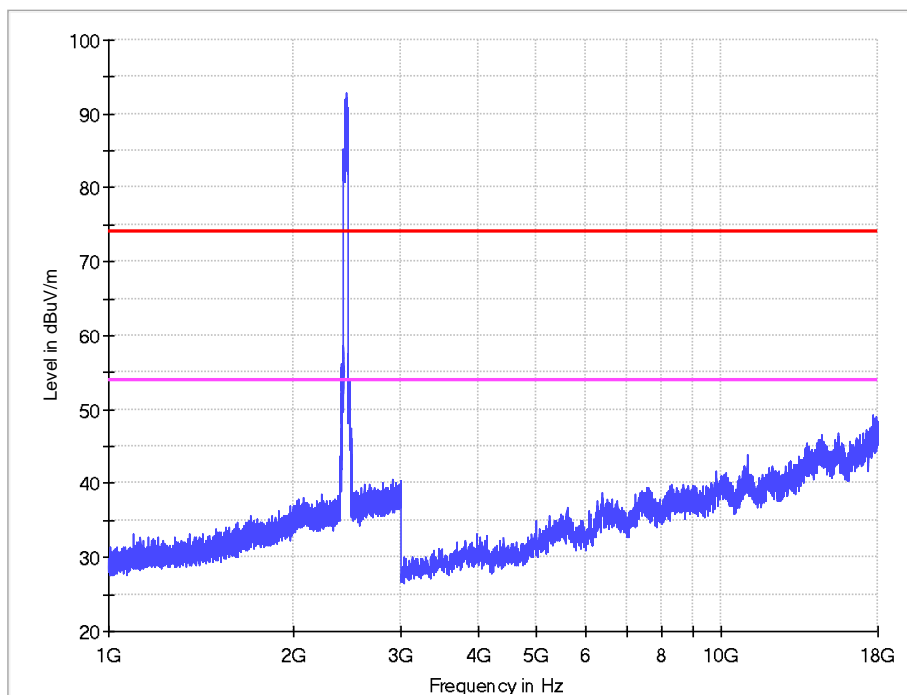
1-18G

802.11ac-VHT40 CH6

Horizontal



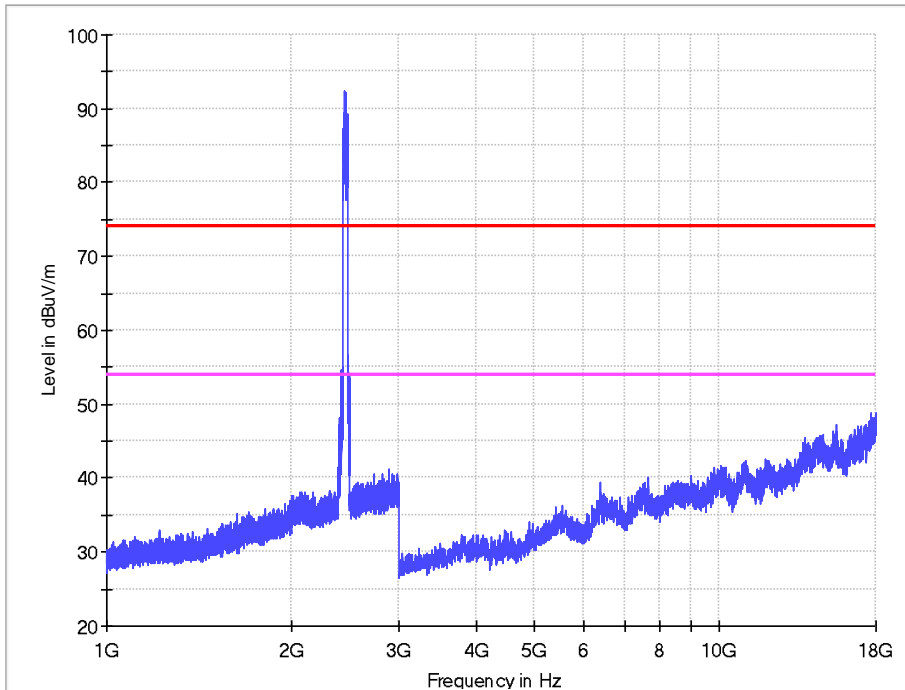
Vertical



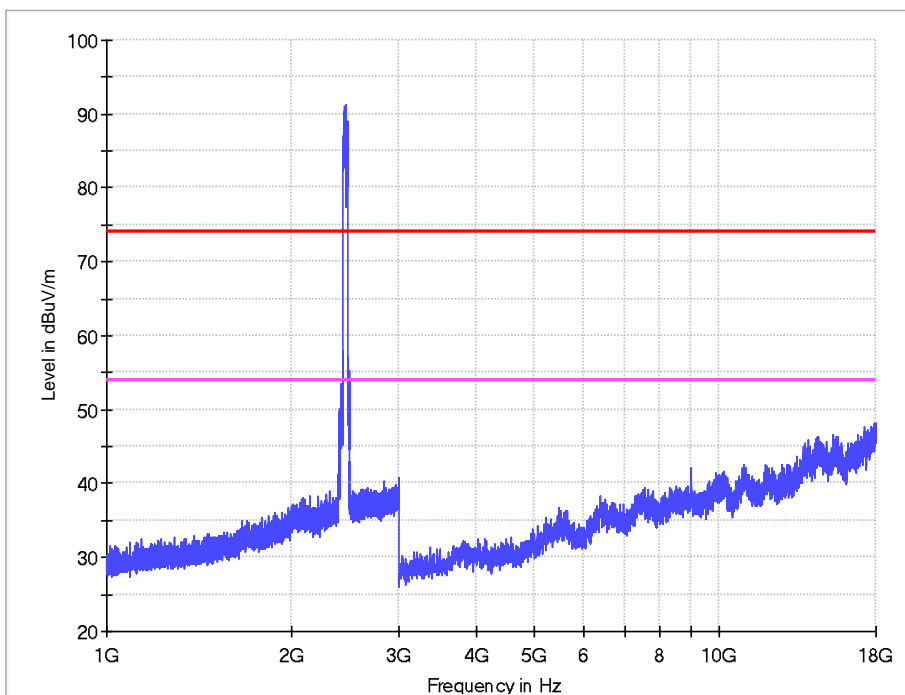
1-18G

802.11ac-VHT40 CH9

Horizontal



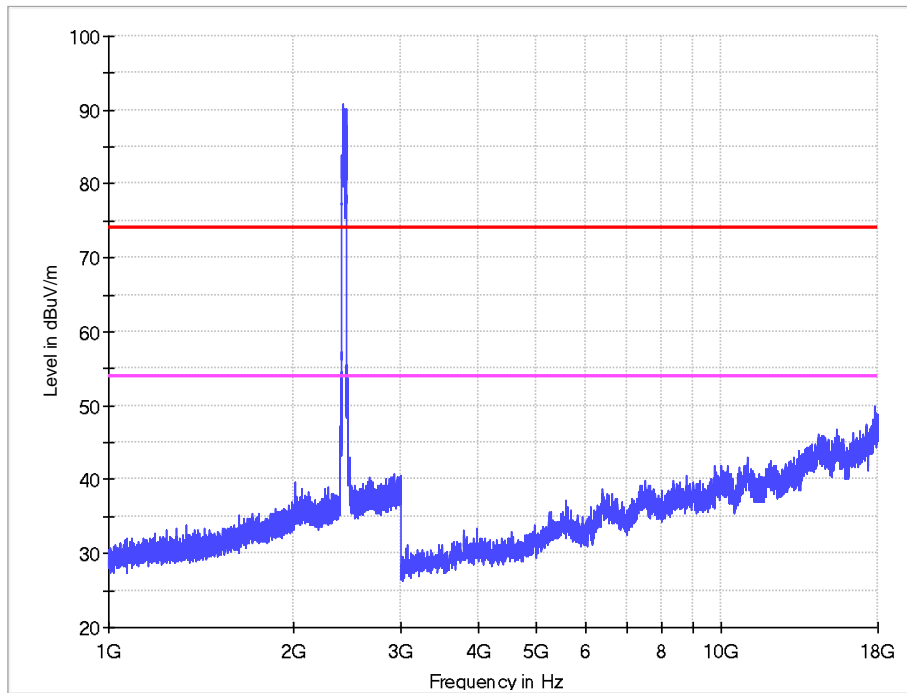
Vertical



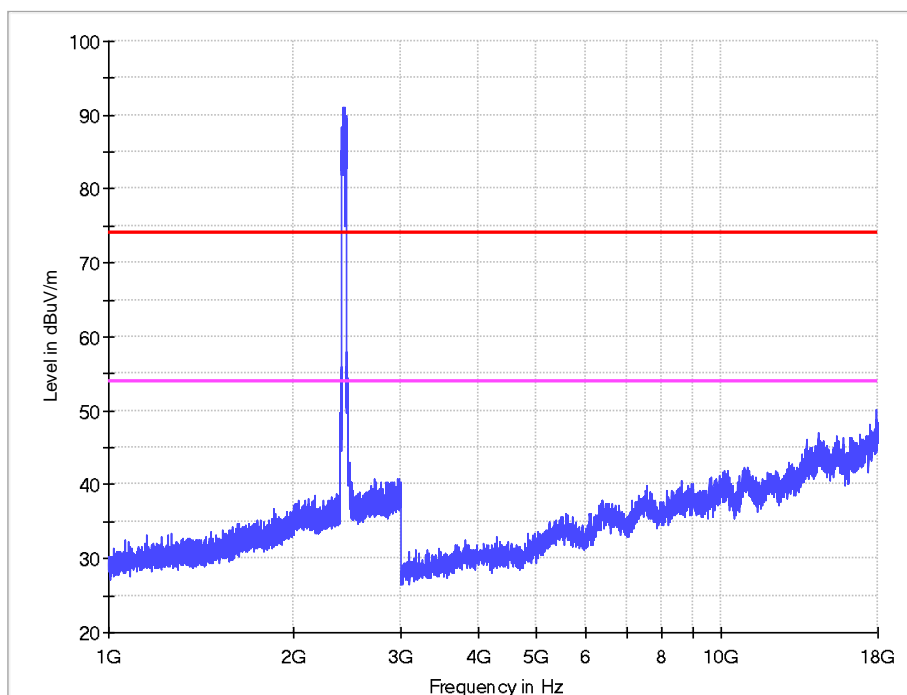
1-18G

802.11ax-HEW40 CH3

Horizontal



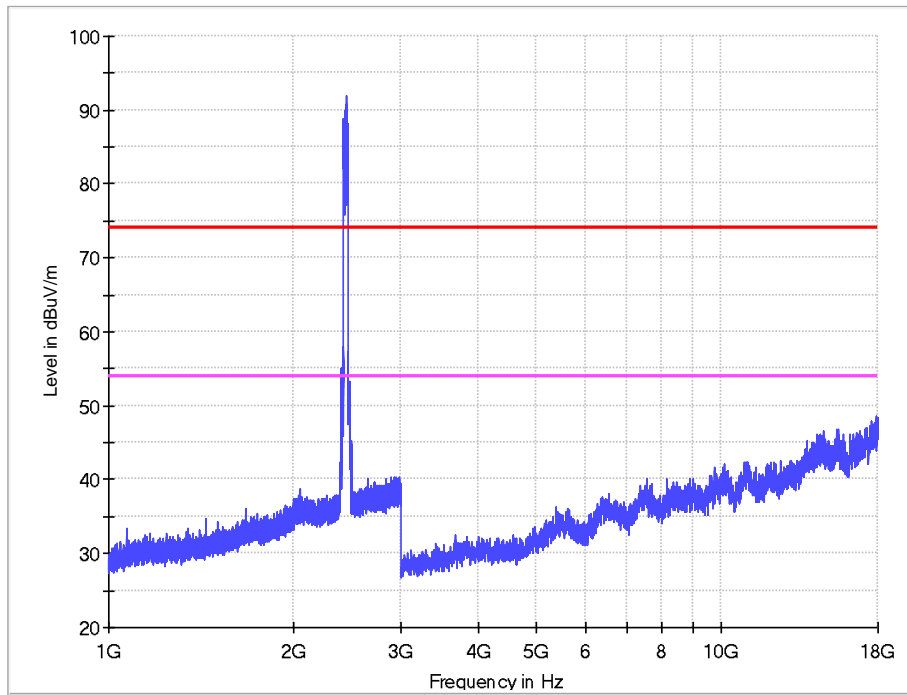
Vertical



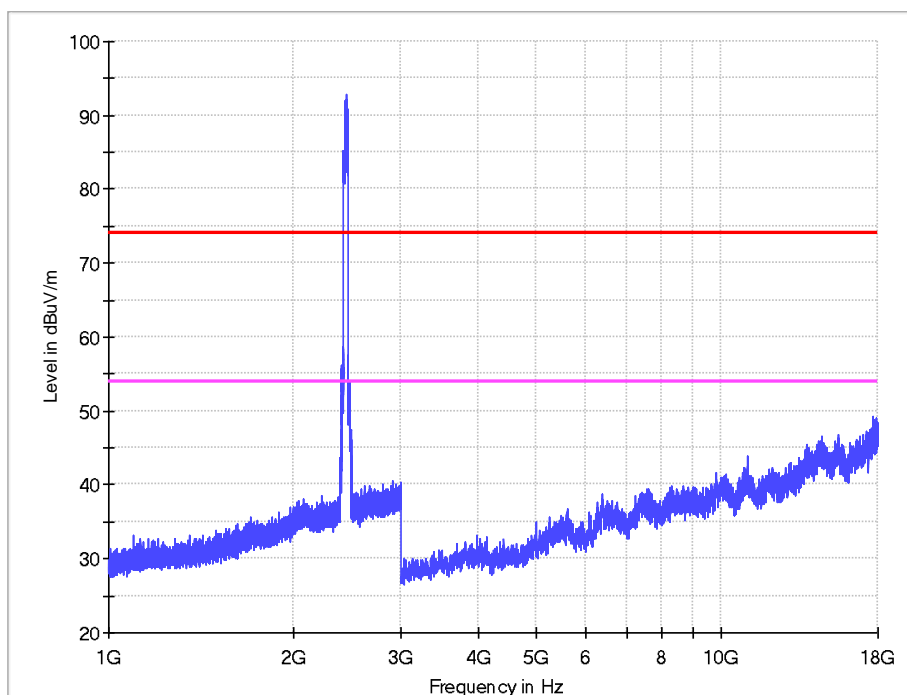
1-18G

802.11ax-HEW40 CH6

Horizontal



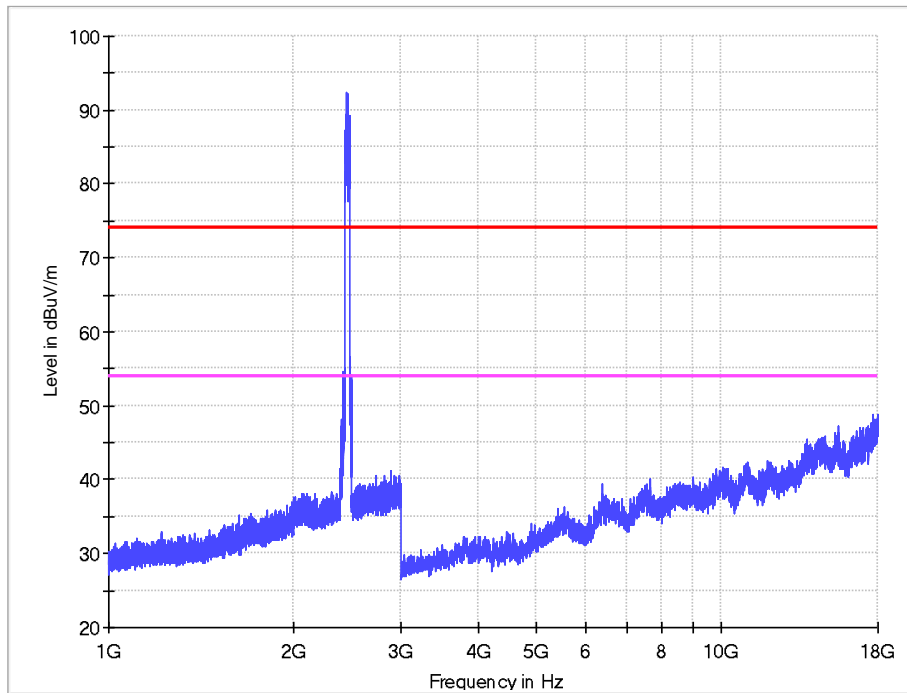
Vertical



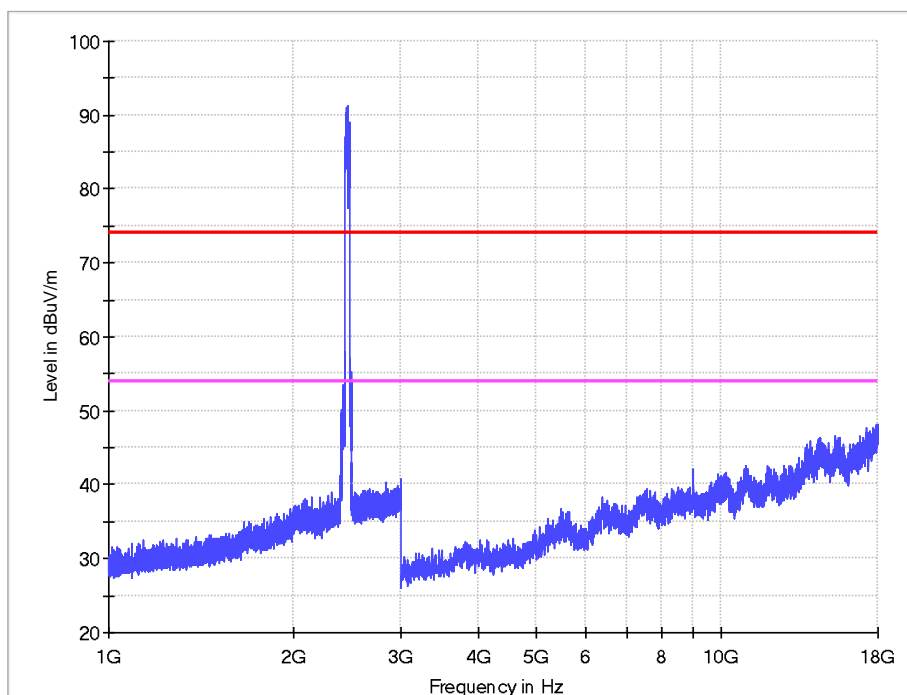
1-18G

802.11ax-HEW40 CH9

Horizontal

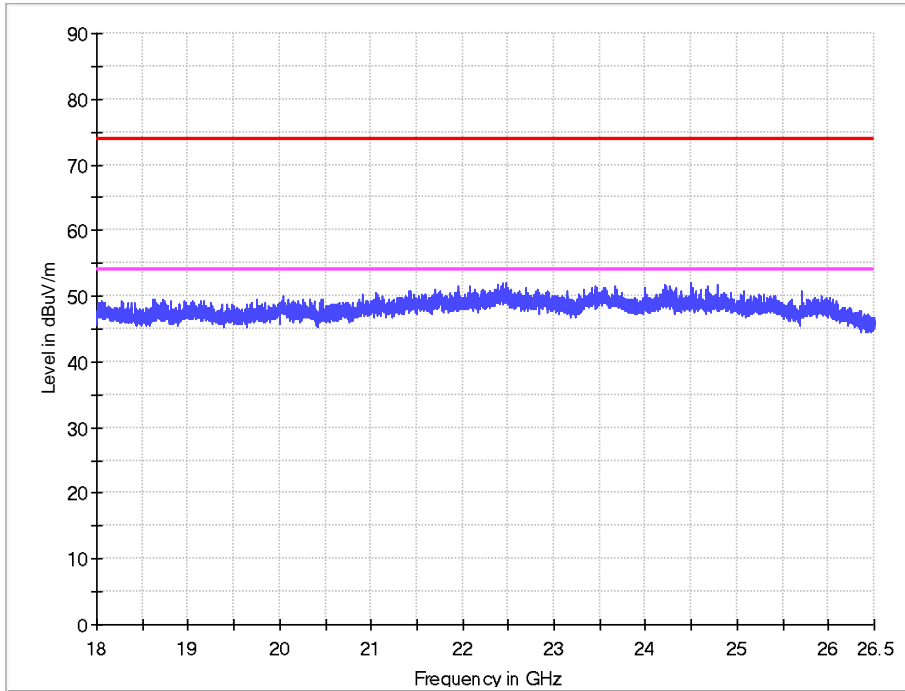


Vertical

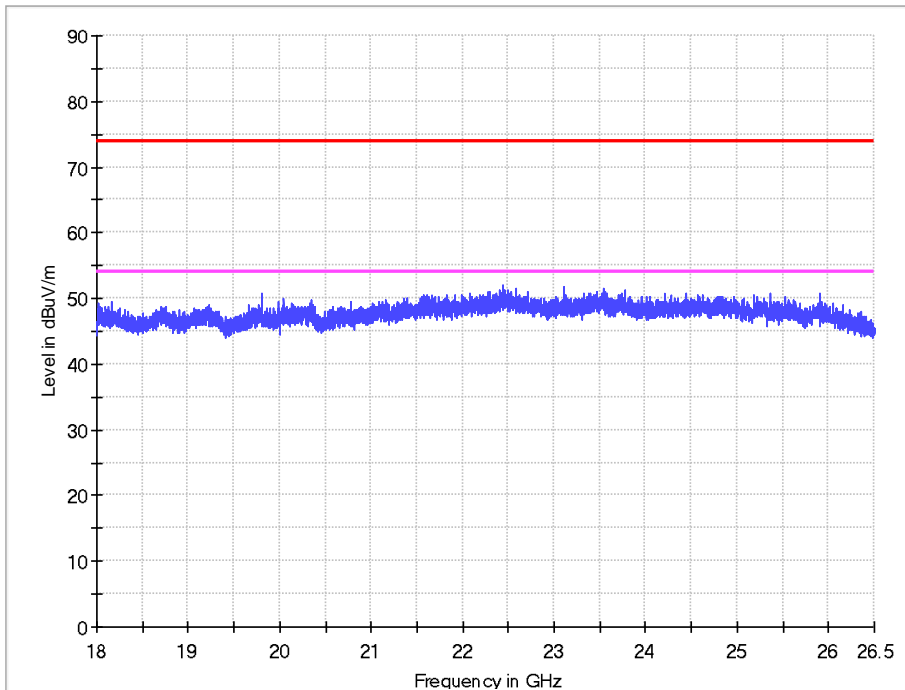


18-26.5G

(Worst Case)
Horizontal



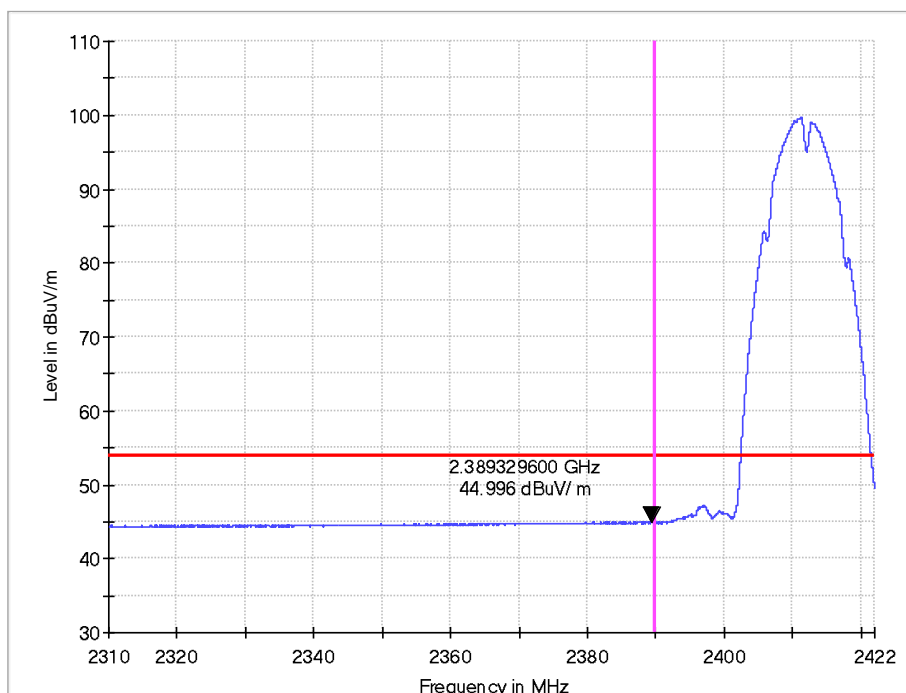
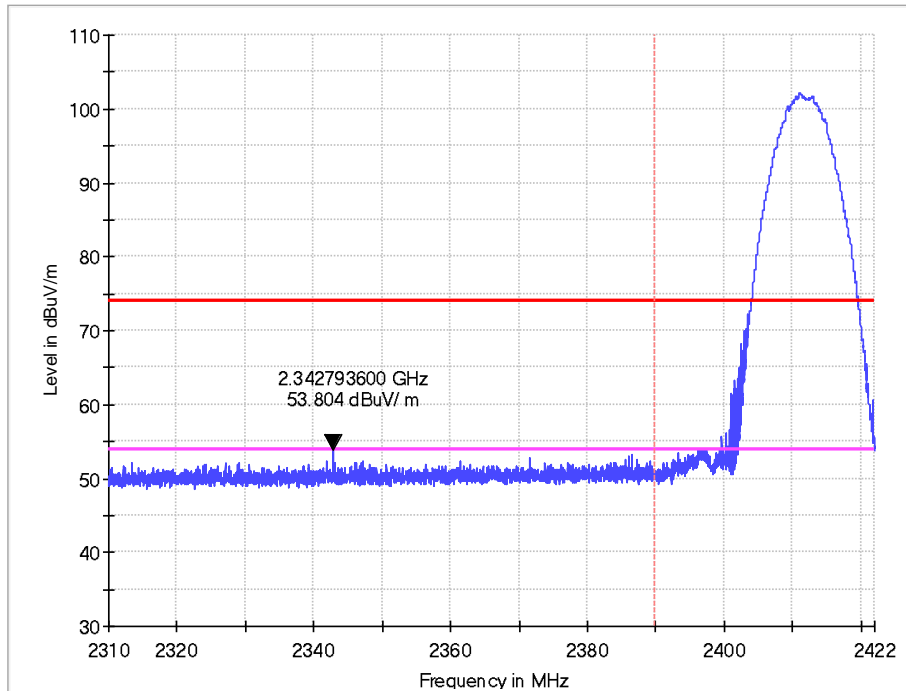
Vertical



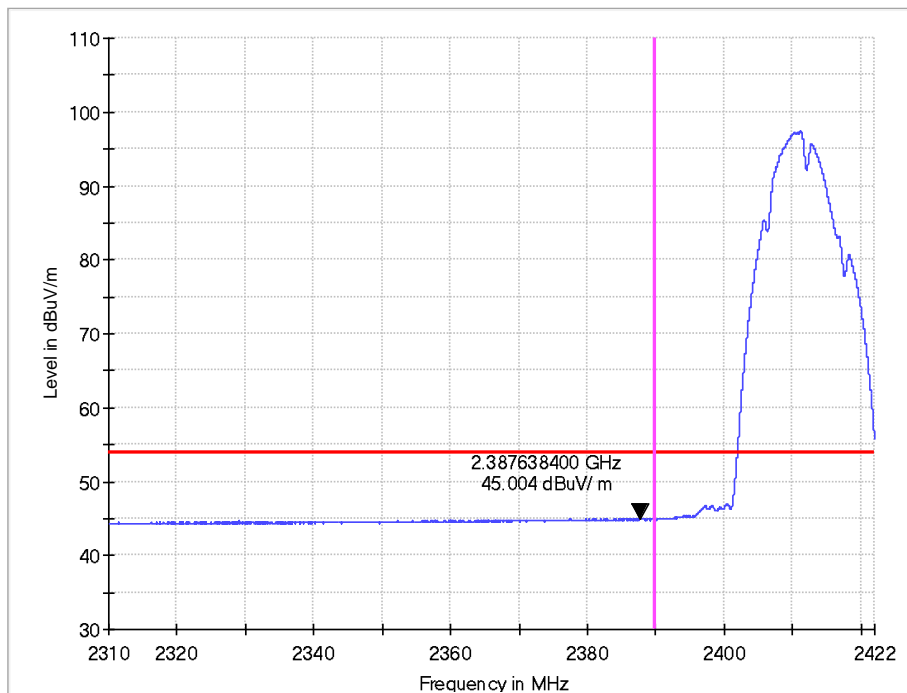
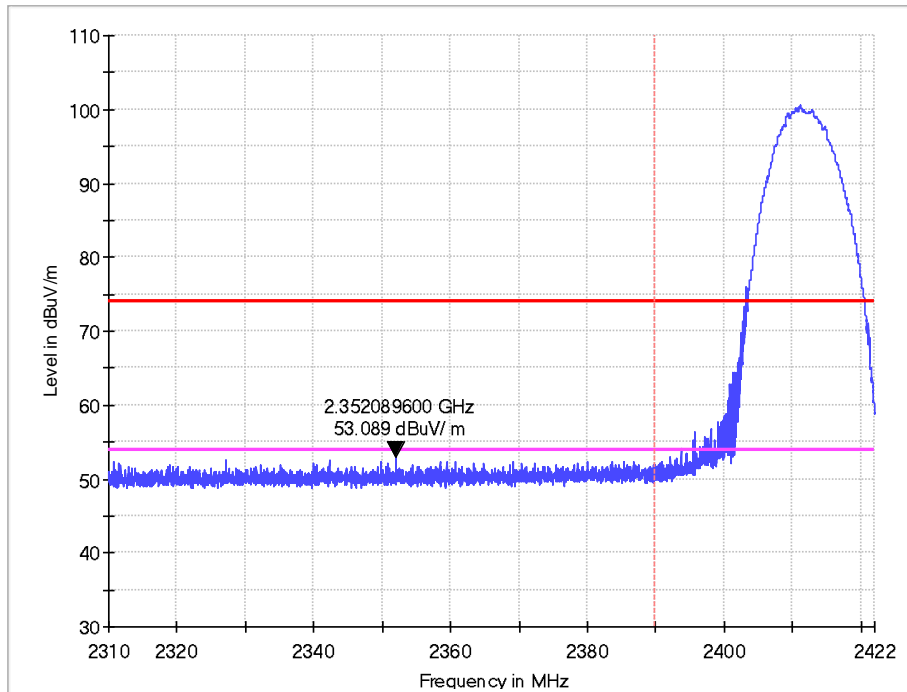
Band edge

11b
CH1

Horizontal



Vertical



Band edge

11b
CH11

Horizontal

