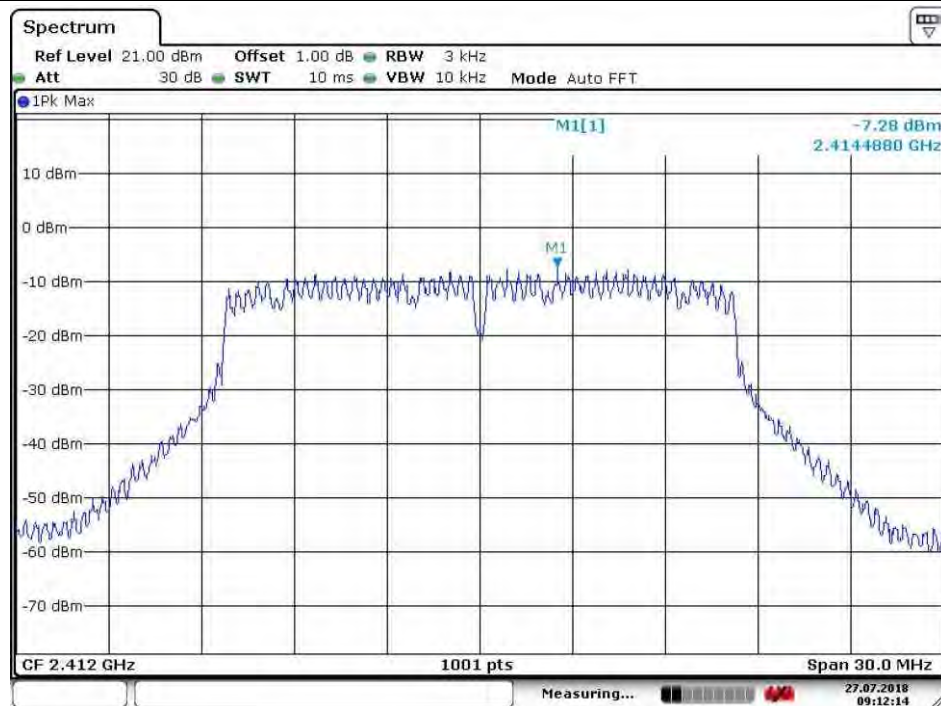




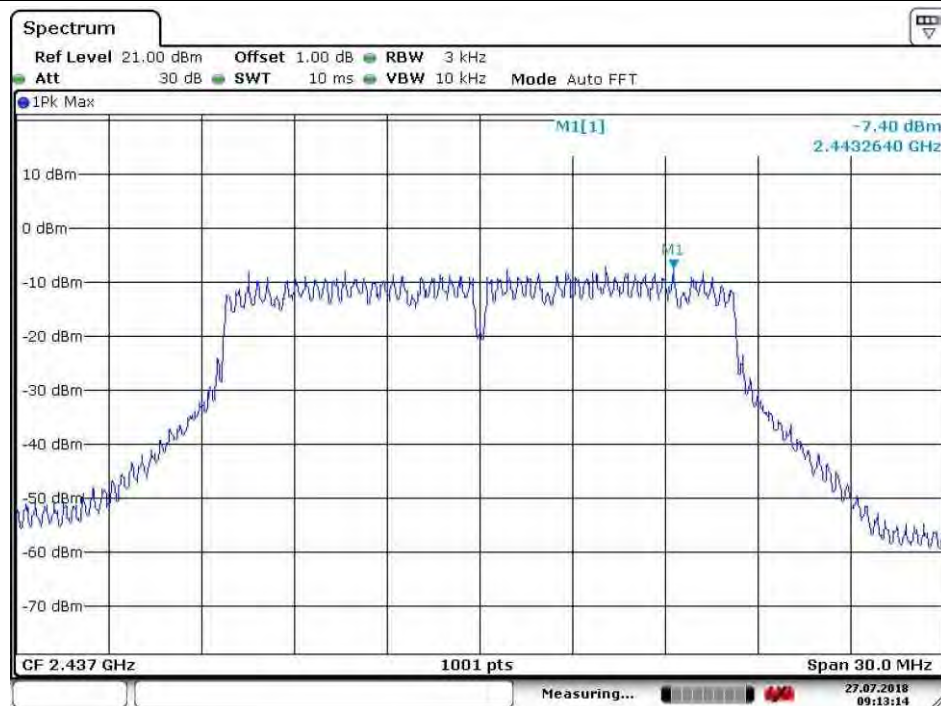
CDD_ANT2

Test mode:	802.11g	Test channel:	Lowest
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Date: 27.JUL.2018 09:12:14

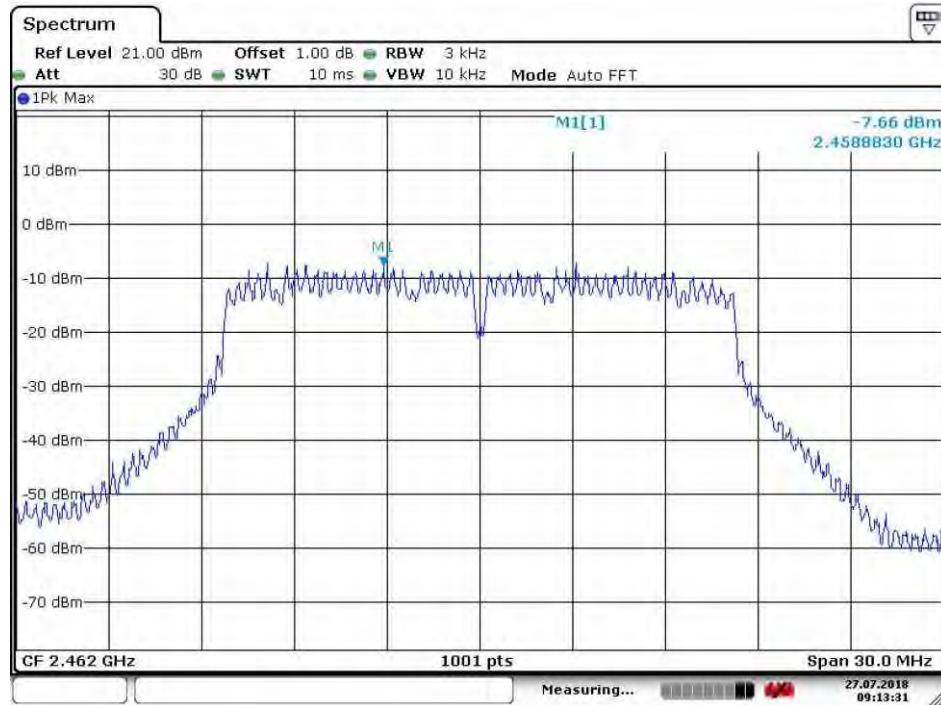
Test mode:	802.11g	Test channel:	Middle
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Date: 27.JUL.2018 09:13:15



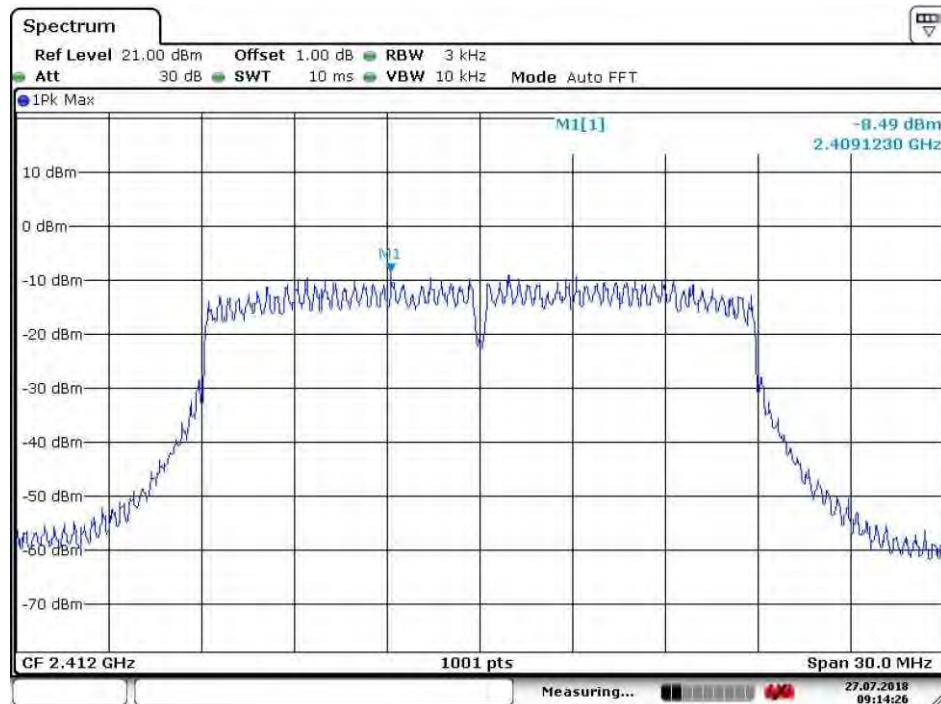
Test mode:	802.11g	Test channel:	Highest
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Date: 27.JUL.2018 09:13:31

MIMO_ANT2

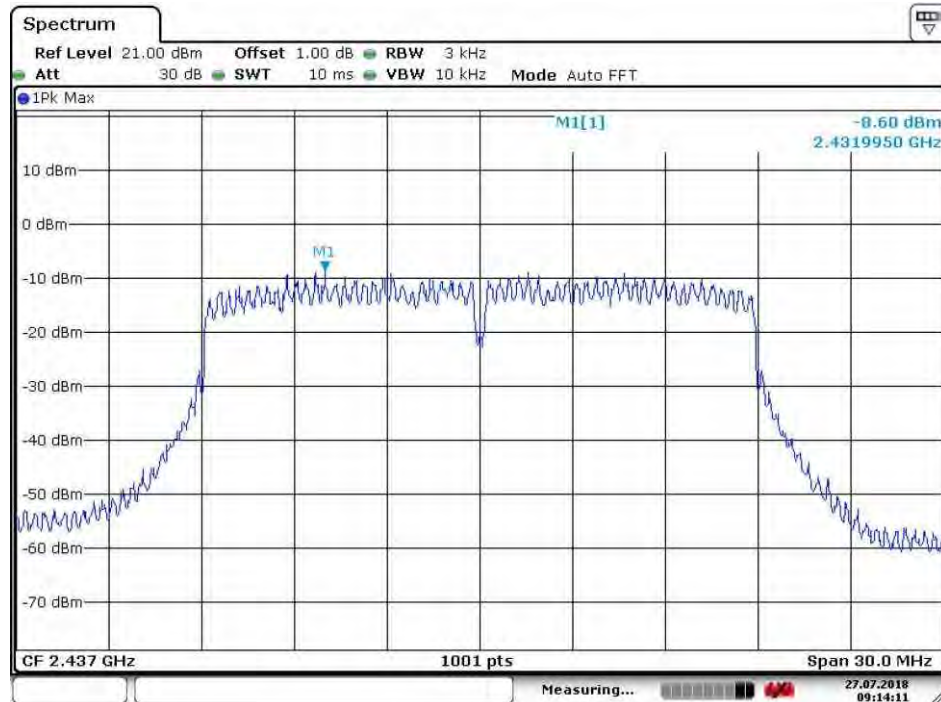
Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 27.JUL.2018 09:14:27

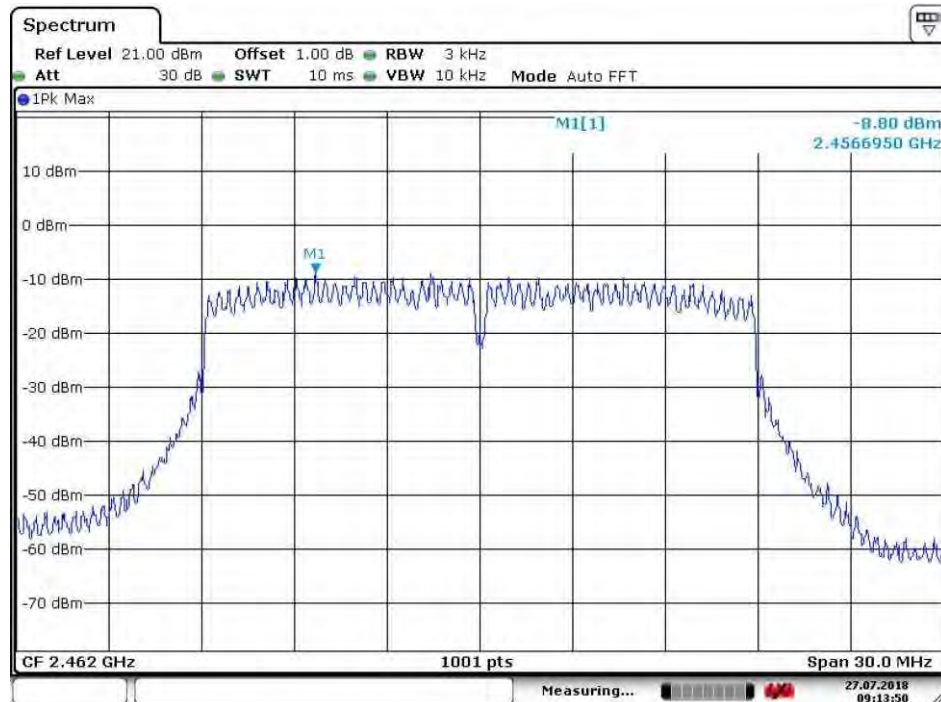


Test mode:	802.11n(HT20)	Test channel:	Middle
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Date: 27.JUL.2018 09:14:11

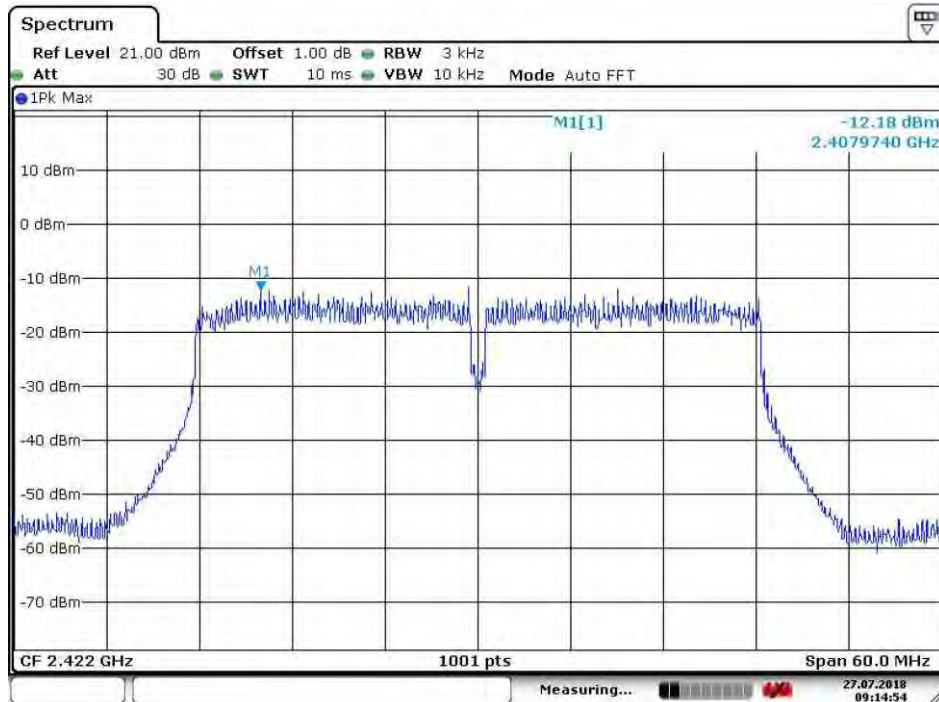
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 27.JUL.2018 09:13:50

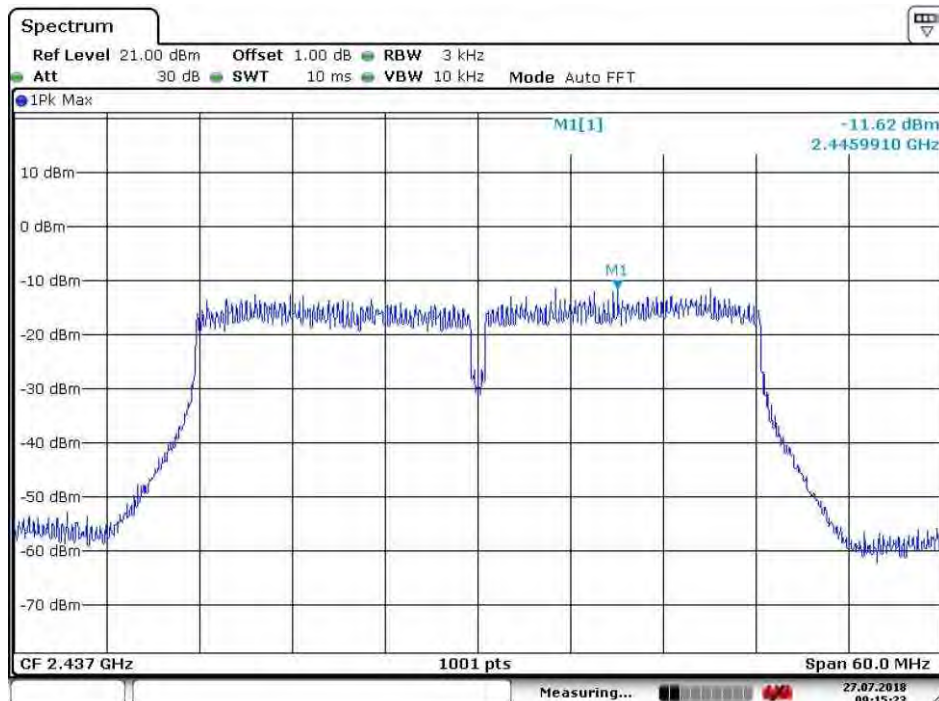


Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 27.JUL.2018 09:14:54

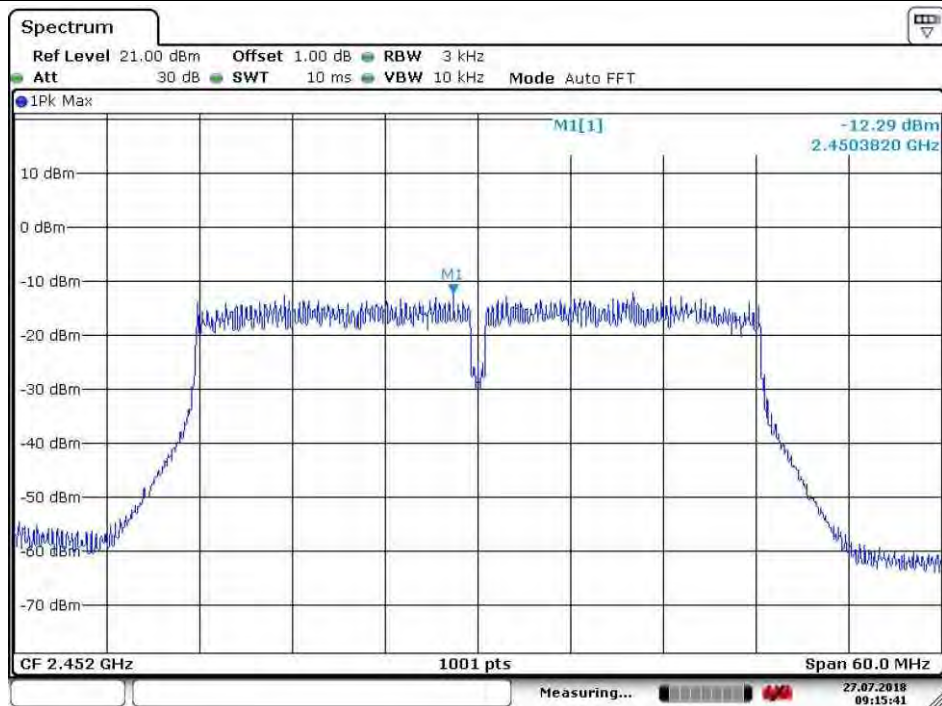
Test mode:	802.11n(HT40)	Test channel:	Middle
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Date: 27.JUL.2018 09:15:24

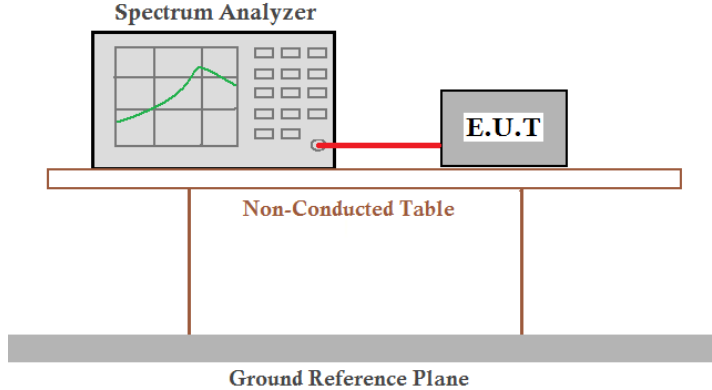


Test mode:	802.11n(HT40)	Test channel:	Highest
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Date: 27.JUL.2018 09:15:42

5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	 The diagram illustrates the test setup for RF conducted emissions. A Spectrum Analyzer is connected to an Equipment Under Test (E.U.T.) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Test plot as follows:

SISO_ANT1

Test mode:	802.11b	Test channel:	Lowest
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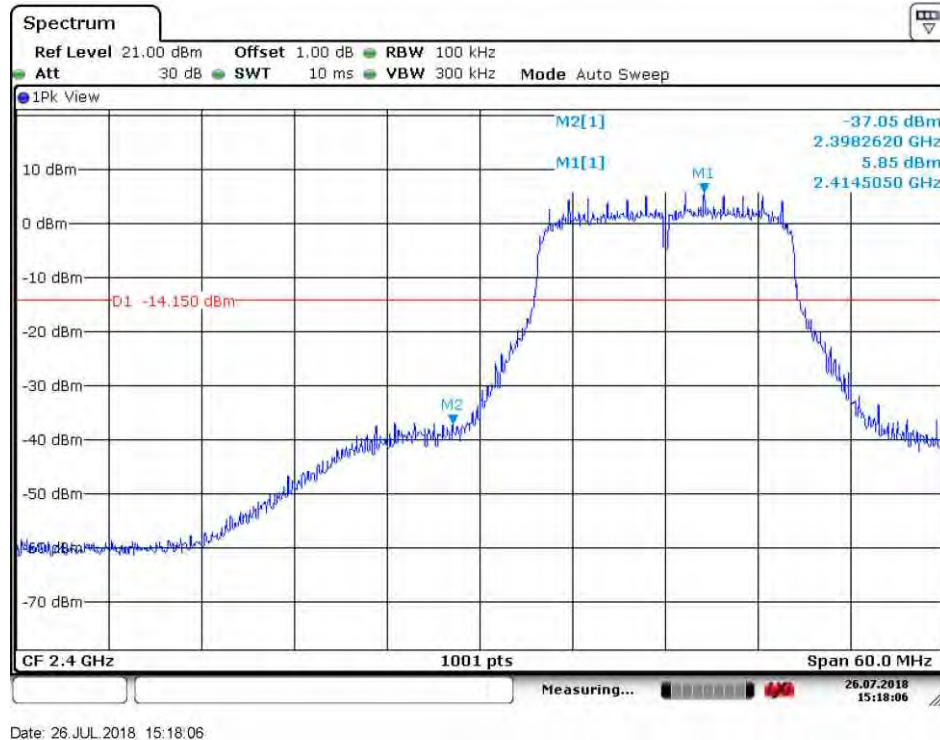


Test mode:	802.11b	Test channel:	Highest
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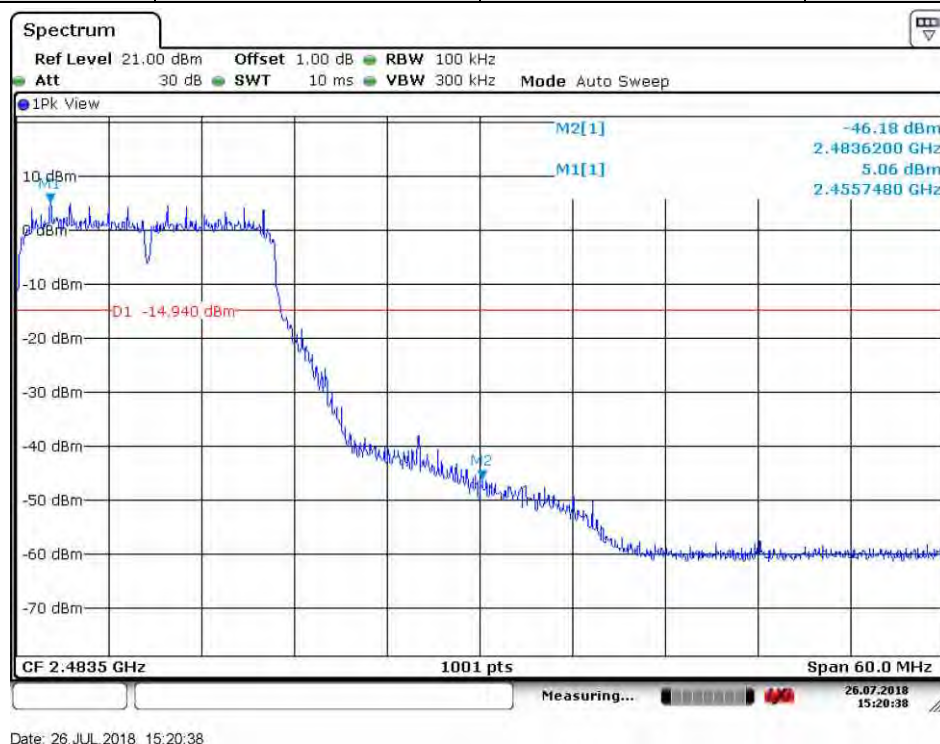




Test mode:	802.11g	Test channel:	Lowest
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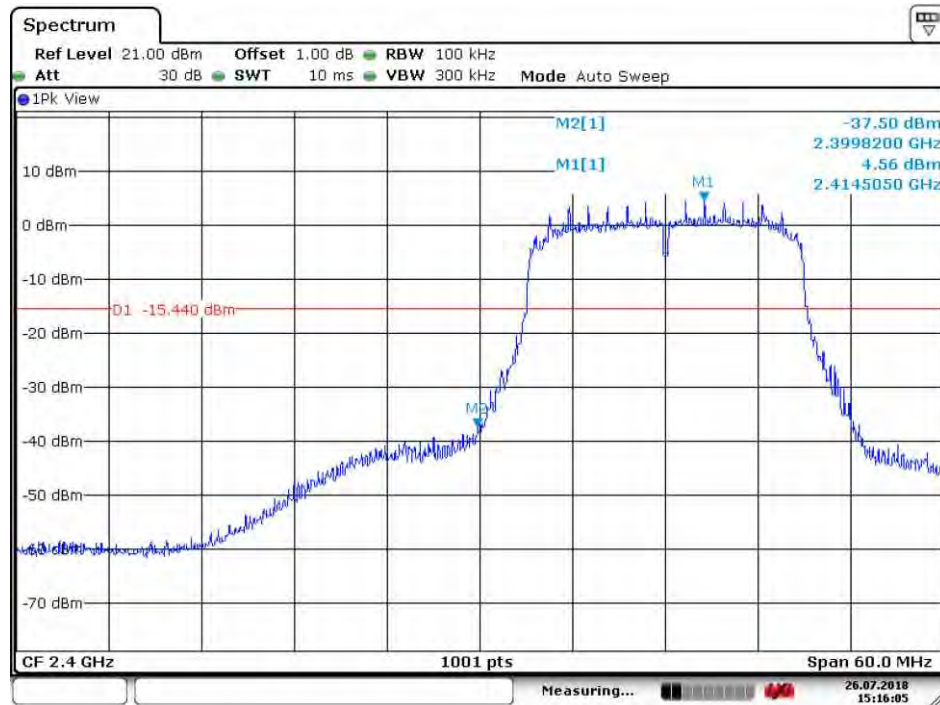


Test mode:	802.11g	Test channel:	Highest
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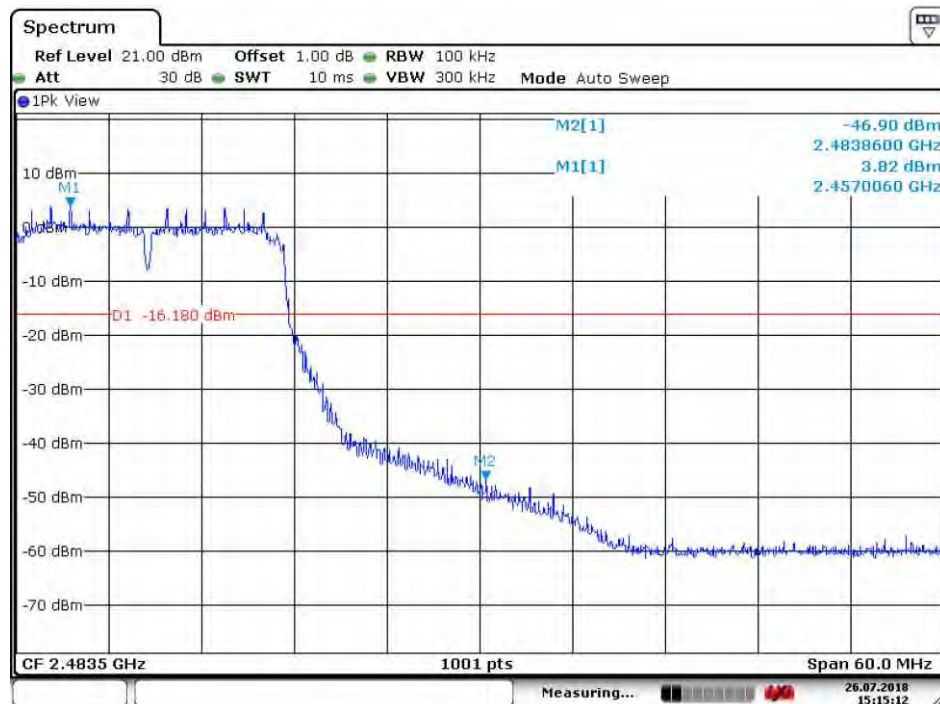


Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 26 JUL 2018 15:16:05

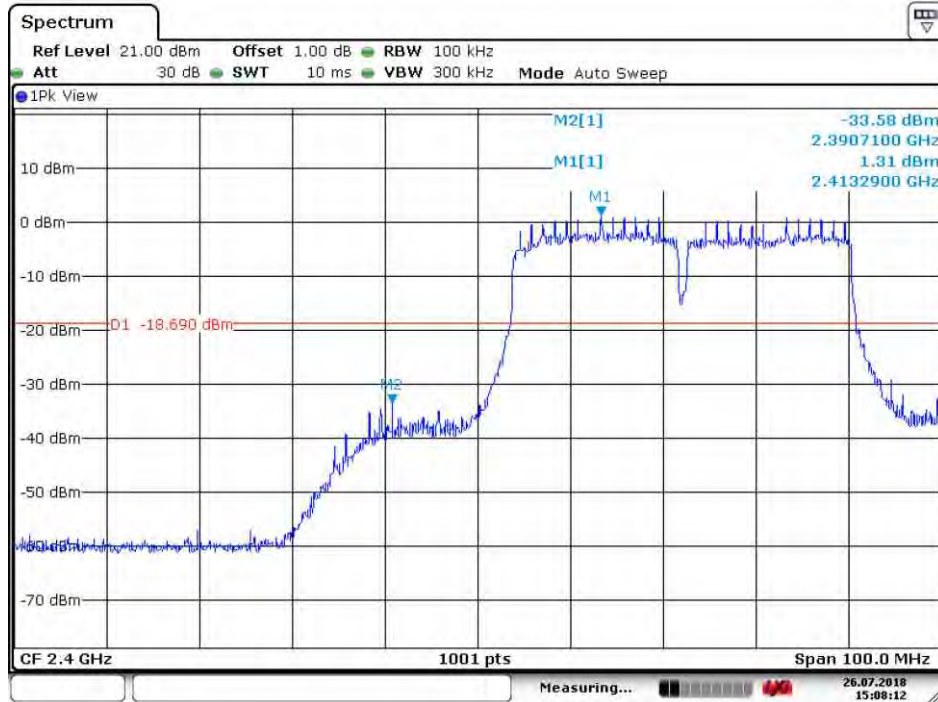
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 26 JUL 2018 15:15:12

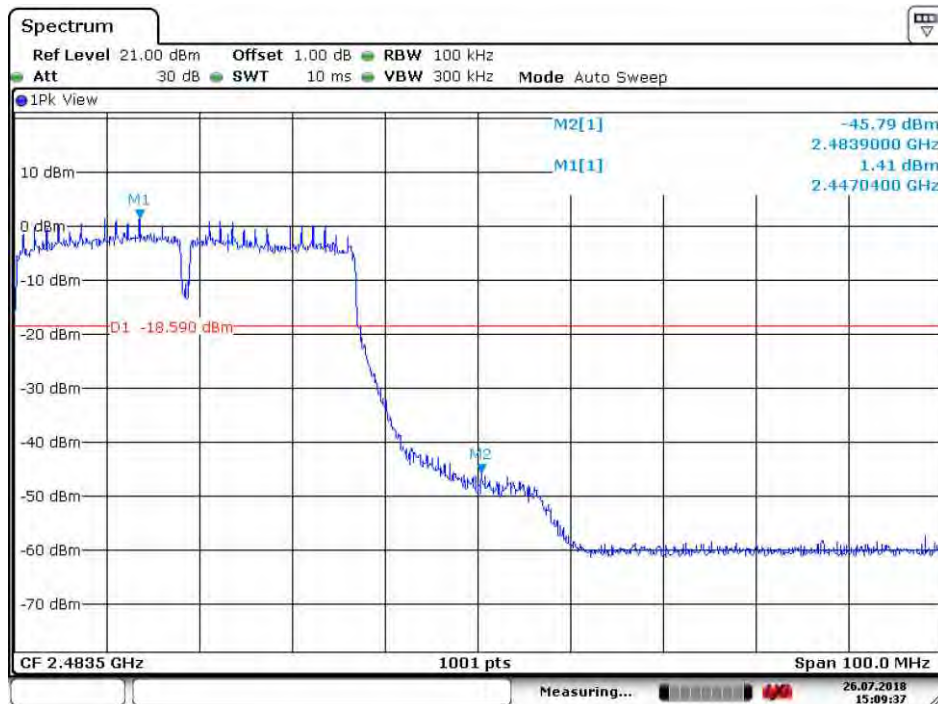


Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 26 JUL 2018 15:08:13

Test mode:	802.11n(HT40)	Test channel:	Highest
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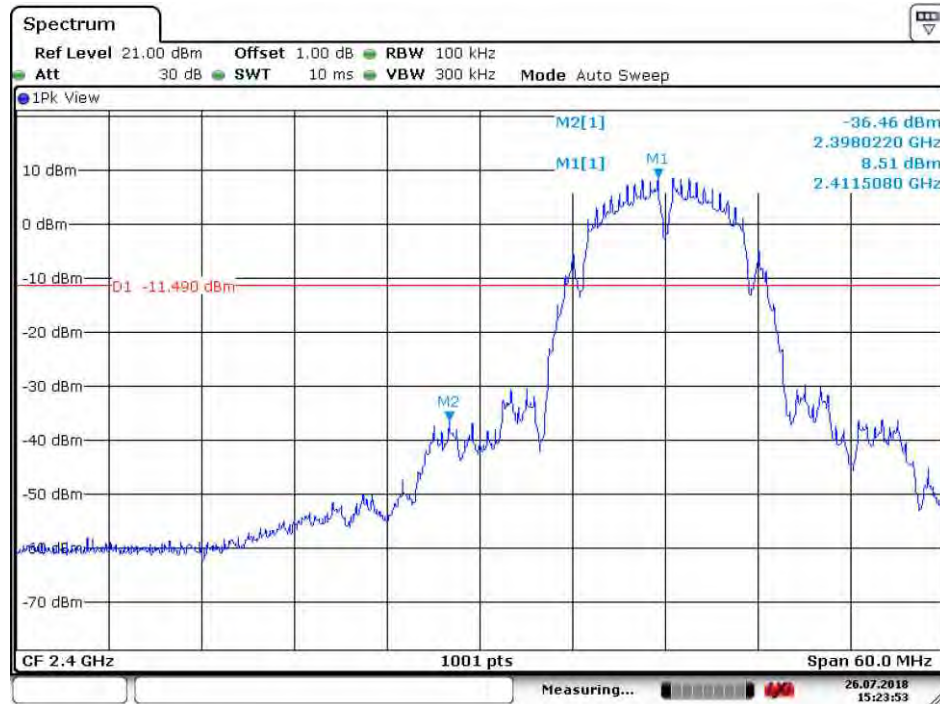


Date: 26 JUL 2018 15:09:37



SISO_ANT2

Test mode:	802.11b	Test channel:	Lowest
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Date: 26 JUL 2018 15:23:54

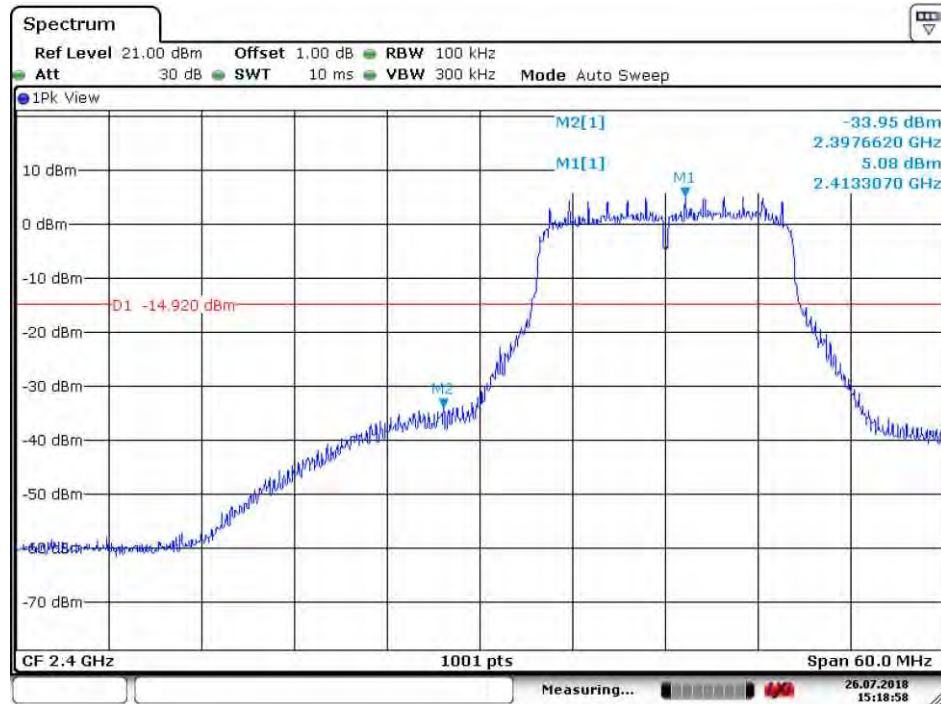
Test mode:	802.11b	Test channel:	Highest
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Date: 26 JUL 2018 15:22:55

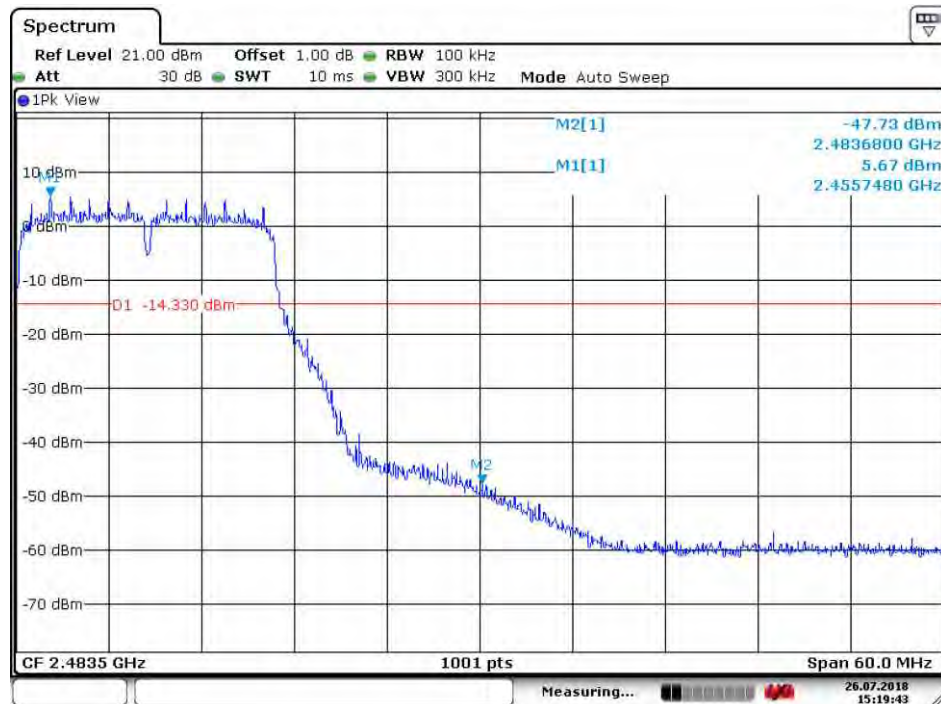


Test mode:	802.11g	Test channel:	Lowest
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Date: 26 JUL 2018 15:18:59

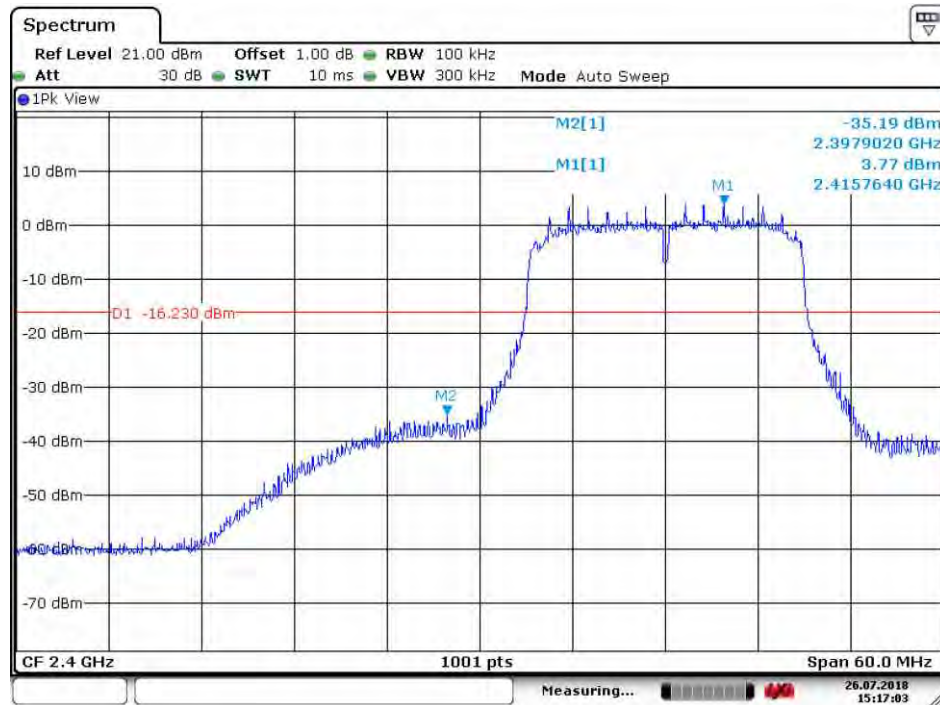
Test mode:	802.11g	Test channel:	Highest
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Date: 26 JUL 2018 15:19:43

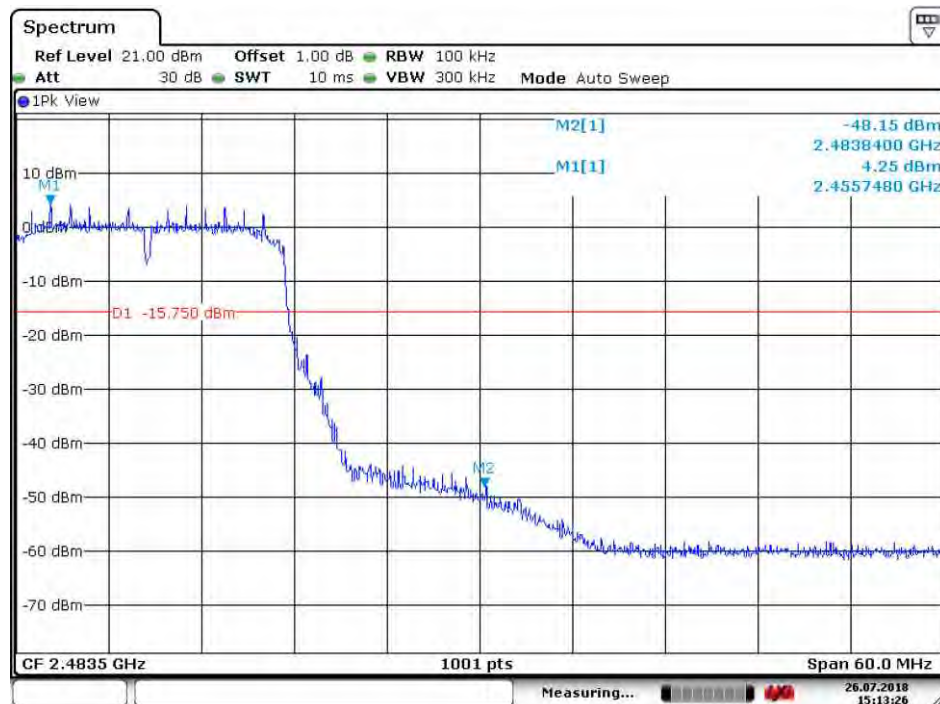


Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 26 JUL 2018 15:17:03

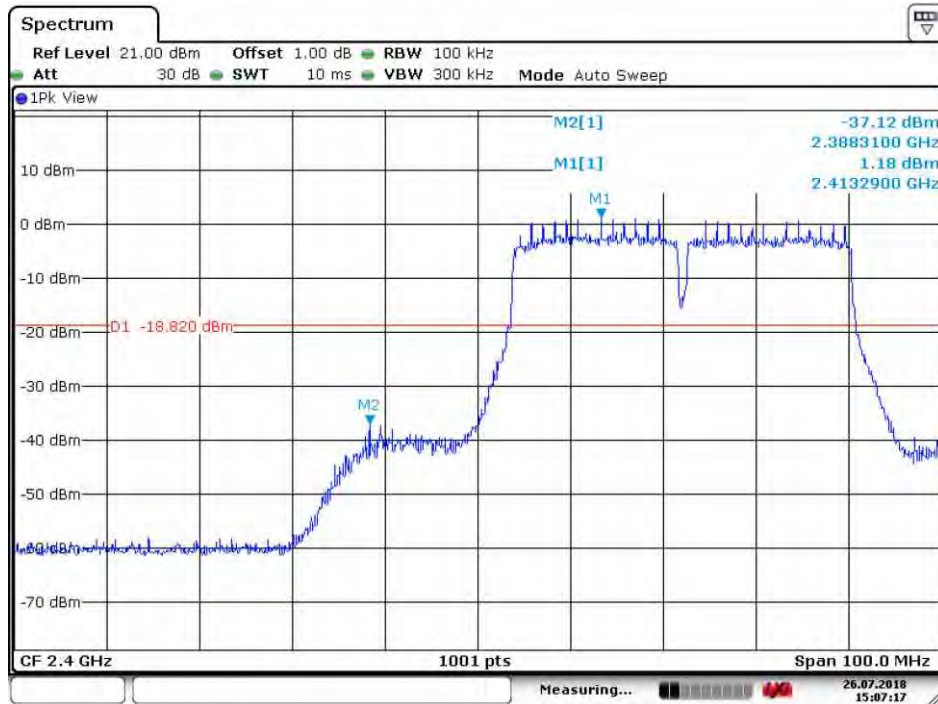
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 26 JUL 2018 15:13:26

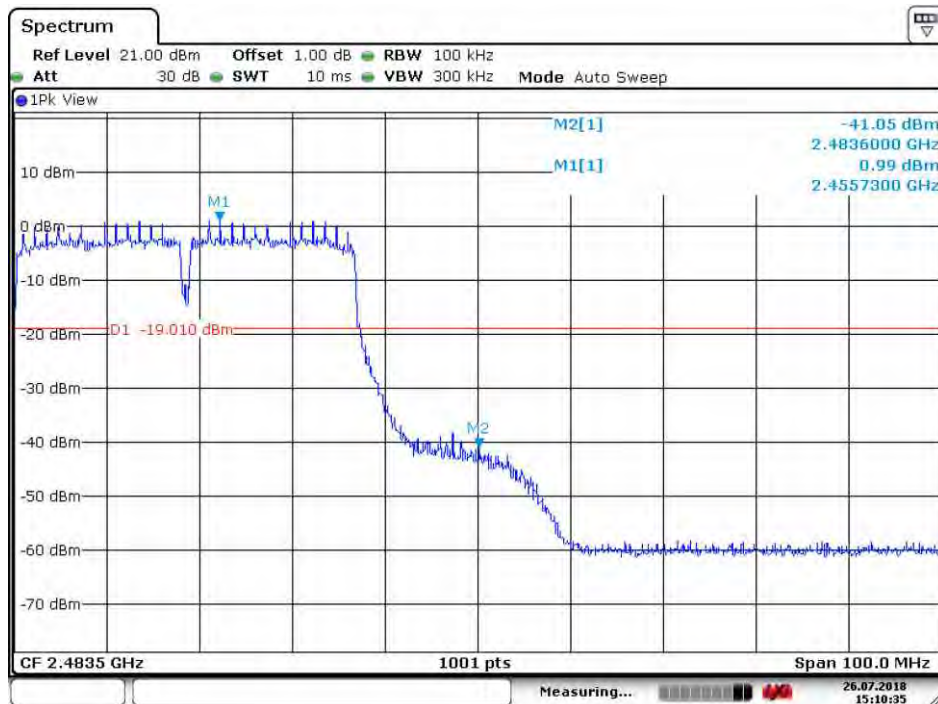


Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 26 JUL 2018 15:07:17

Test mode:	802.11n(HT40)	Test channel:	Highest
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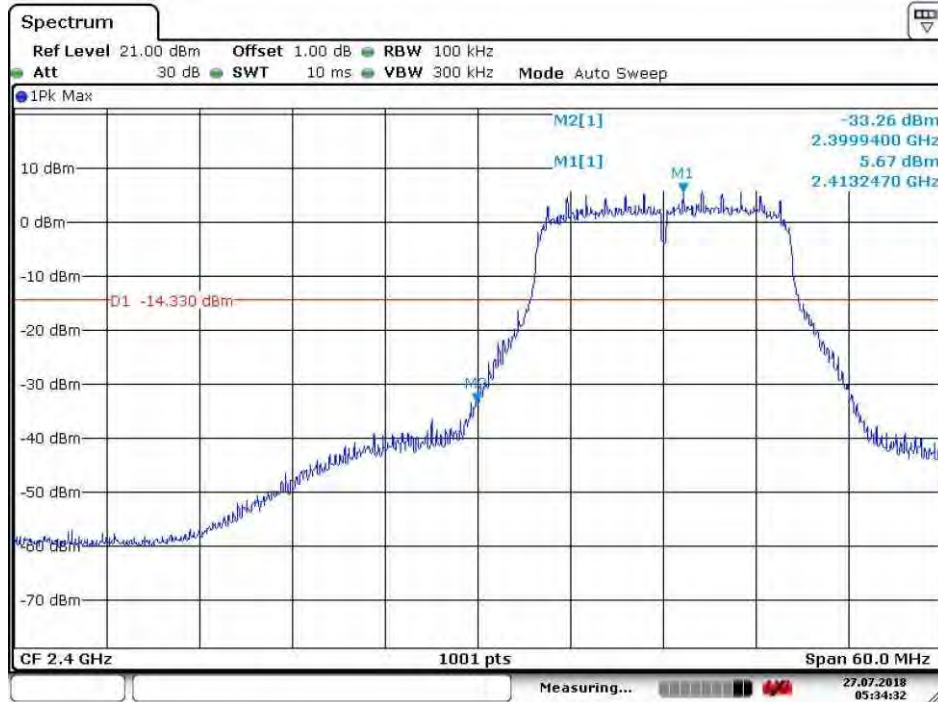


Date: 26 JUL 2018 15:10:36



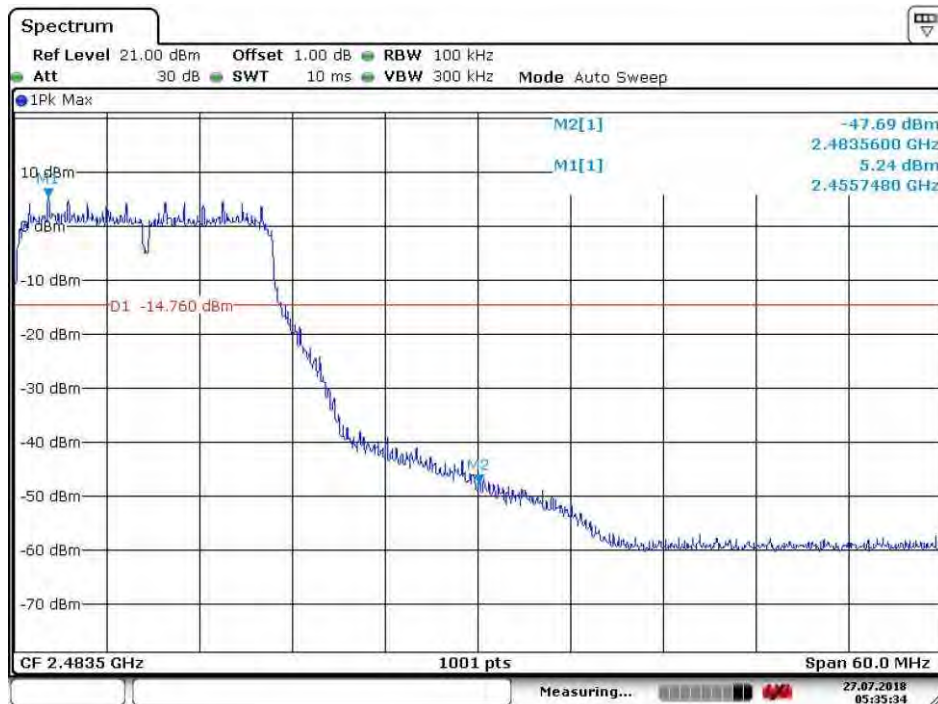
CDD_ANT1

Test mode:	802.11g	Test channel:	Lowest
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Date: 27 JUL 2018 05:34:32

Test mode:	802.11g	Test channel:	Highest
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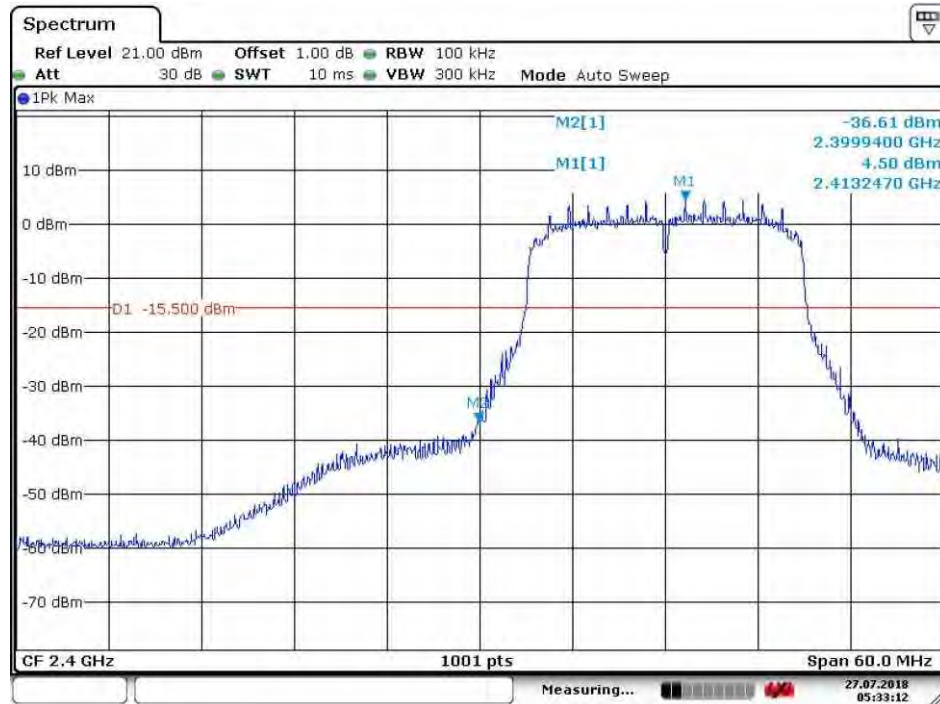


Date: 27 JUL 2018 05:35:35



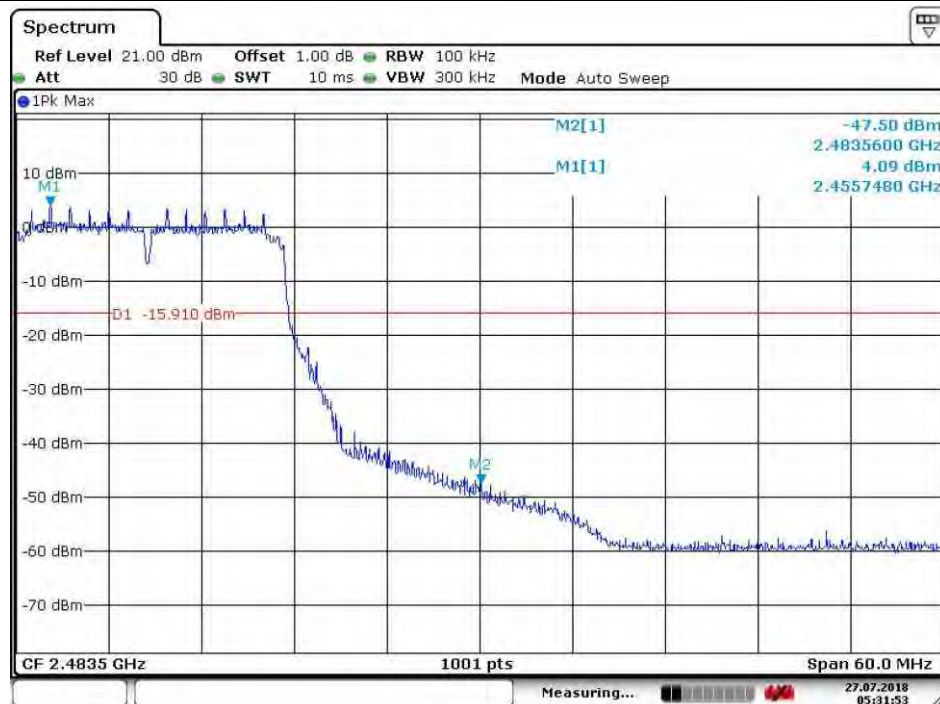
MIMO_ANT1

Test mode:	802.11n(HT20)	Test channel:	Lowest
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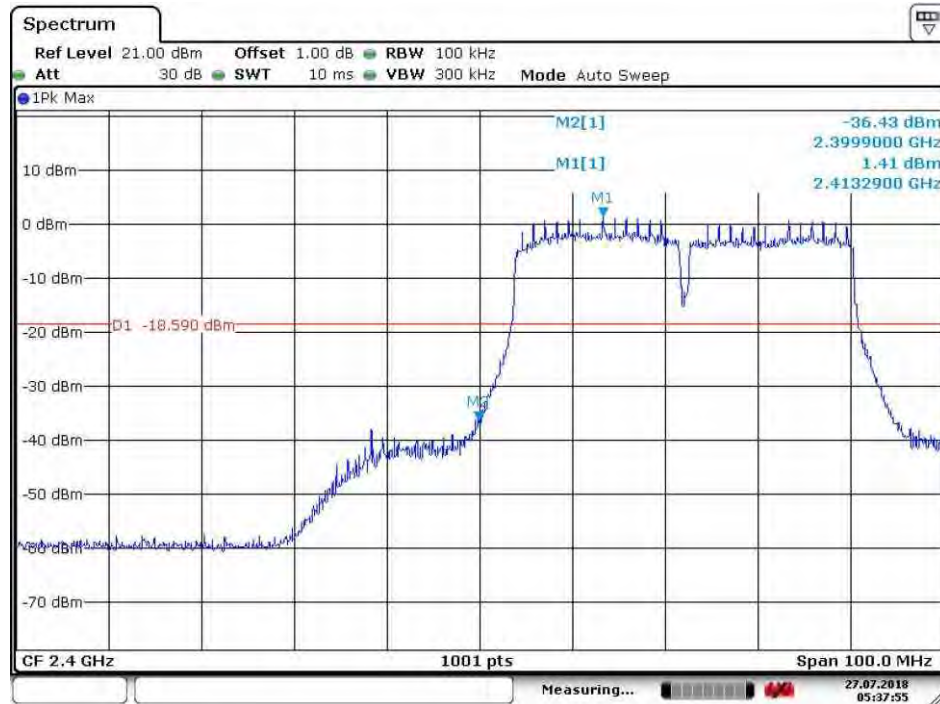
Date: 27 JUL 2018 05:33:12

Test mode:	802.11n(HT20)	Test channel:	Highest
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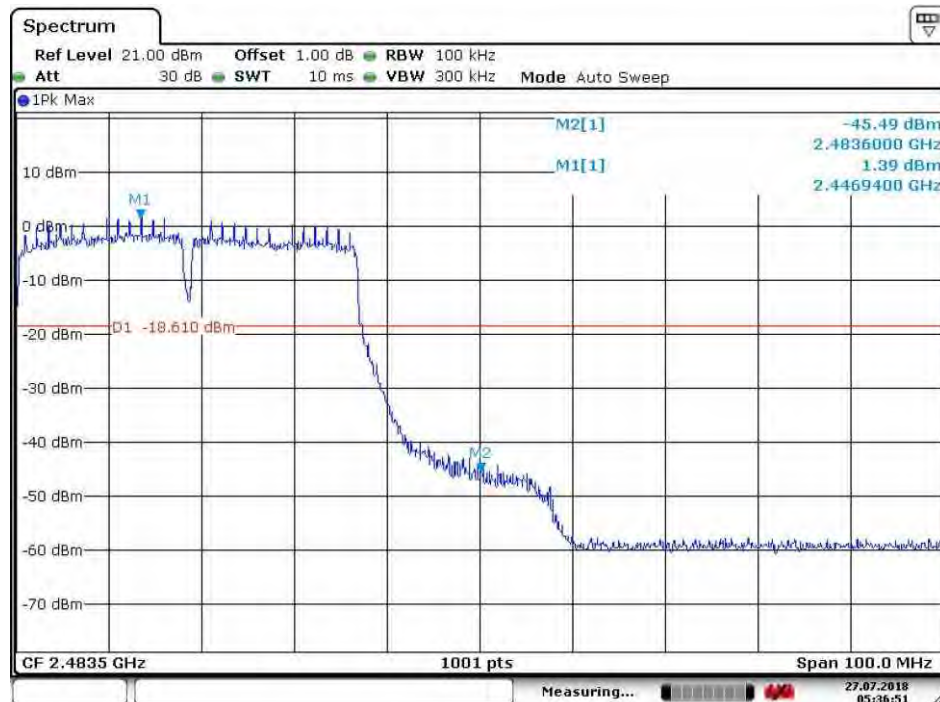
Date: 27 JUL 2018 05:31:53

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 27.JUL.2018 05:37:55

Test mode:	802.11n(HT40)	Test channel:	Highest
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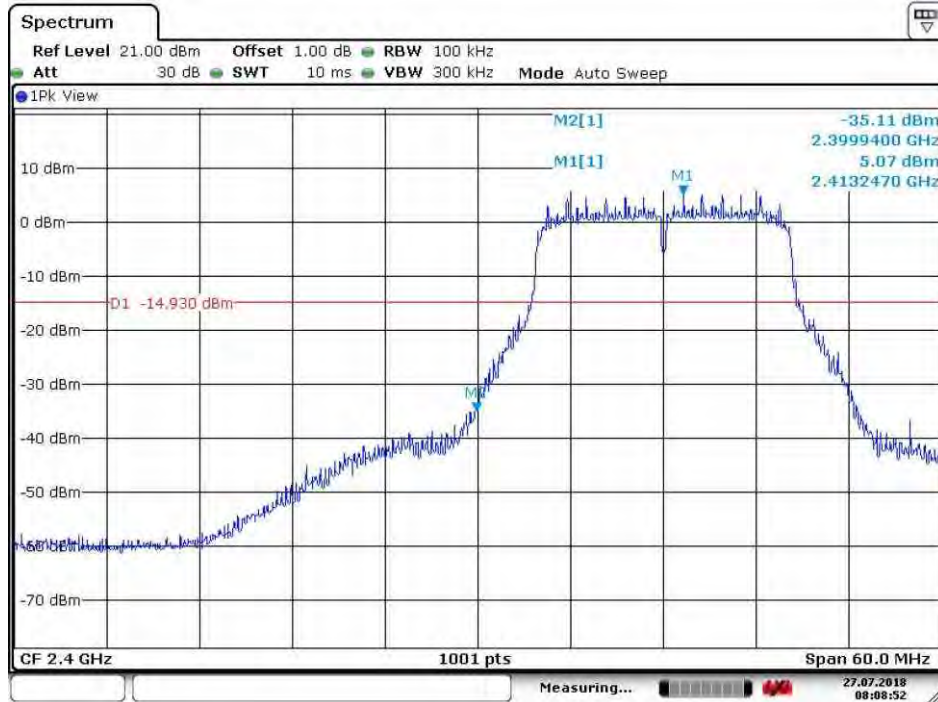


Date: 27.JUL.2018 05:36:51



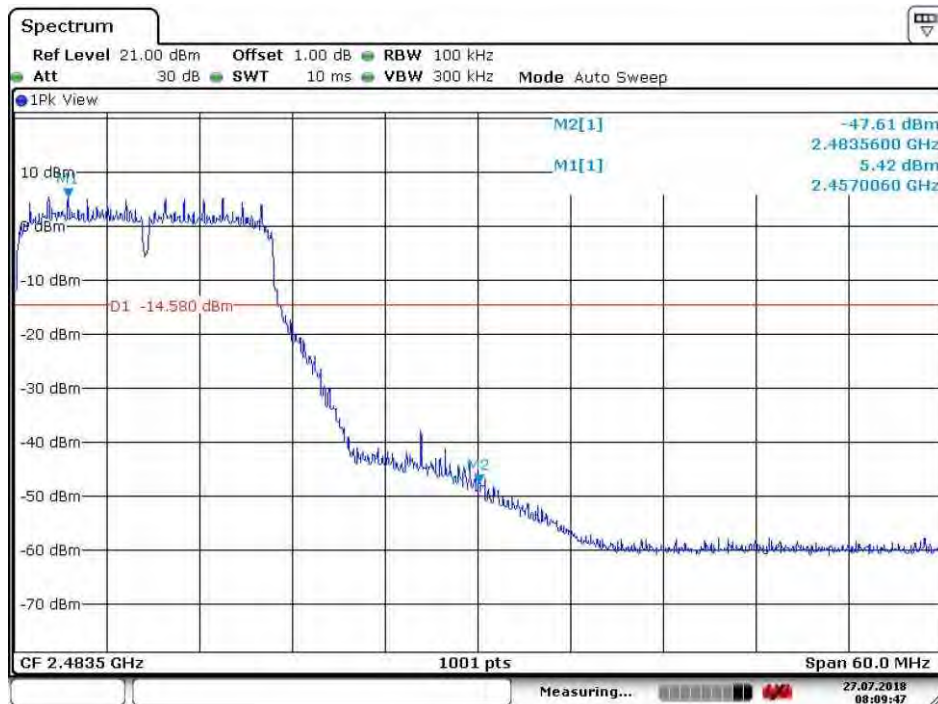
CDD_ANT2

Test mode:	802.11g	Test channel:	Lowest
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Date: 27 JUL 2018 08:08:53

Test mode:	802.11g	Test channel:	Highest
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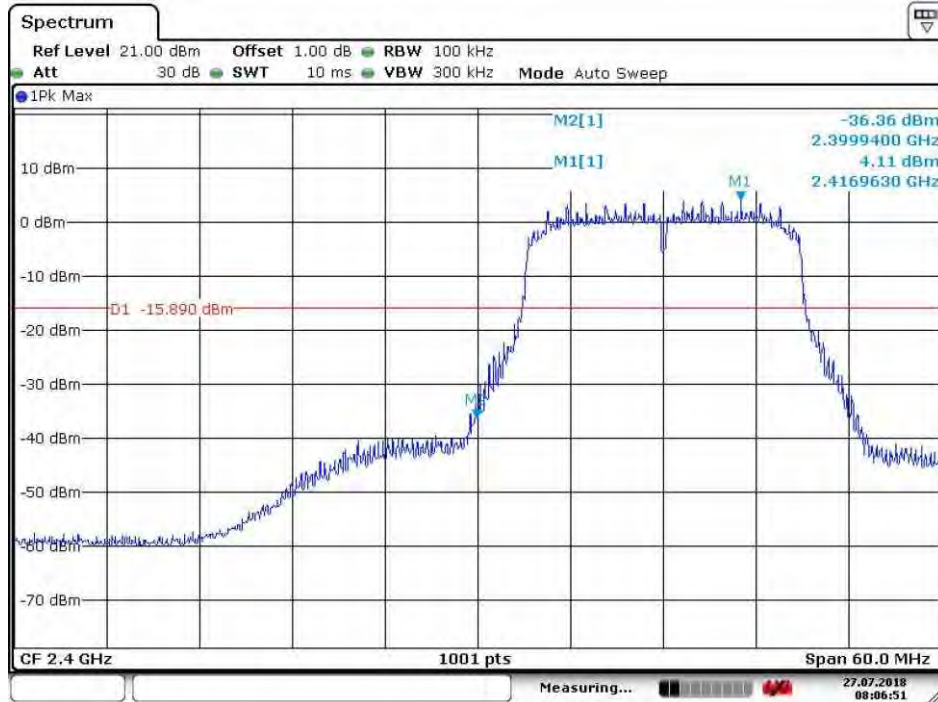


Date: 27 JUL 2018 08:09:47



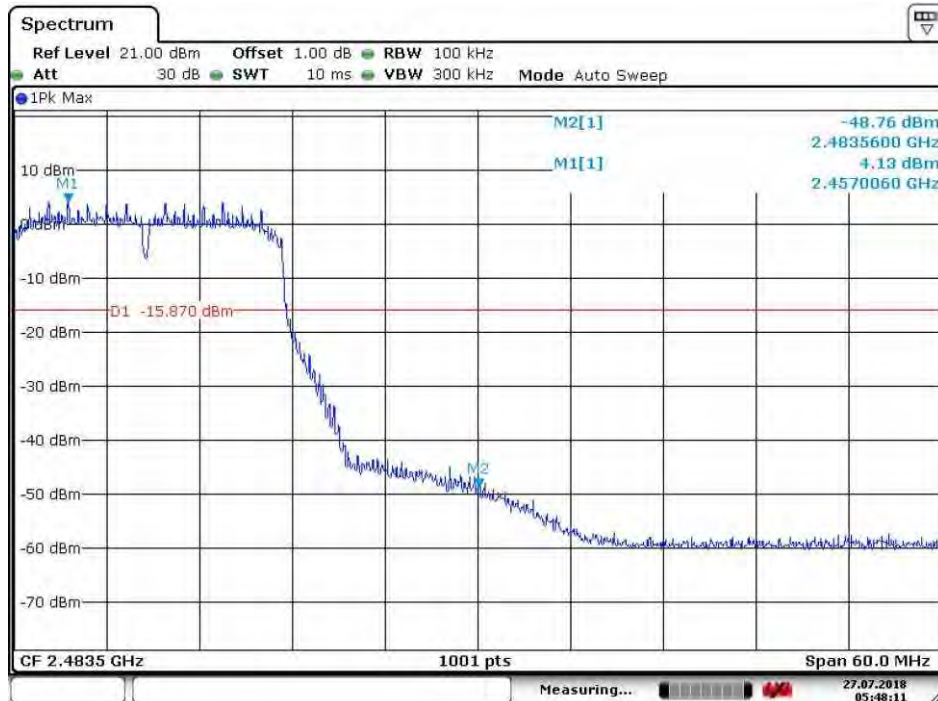
MIMO_ANT2

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 27 JUL 2018 08:06:51

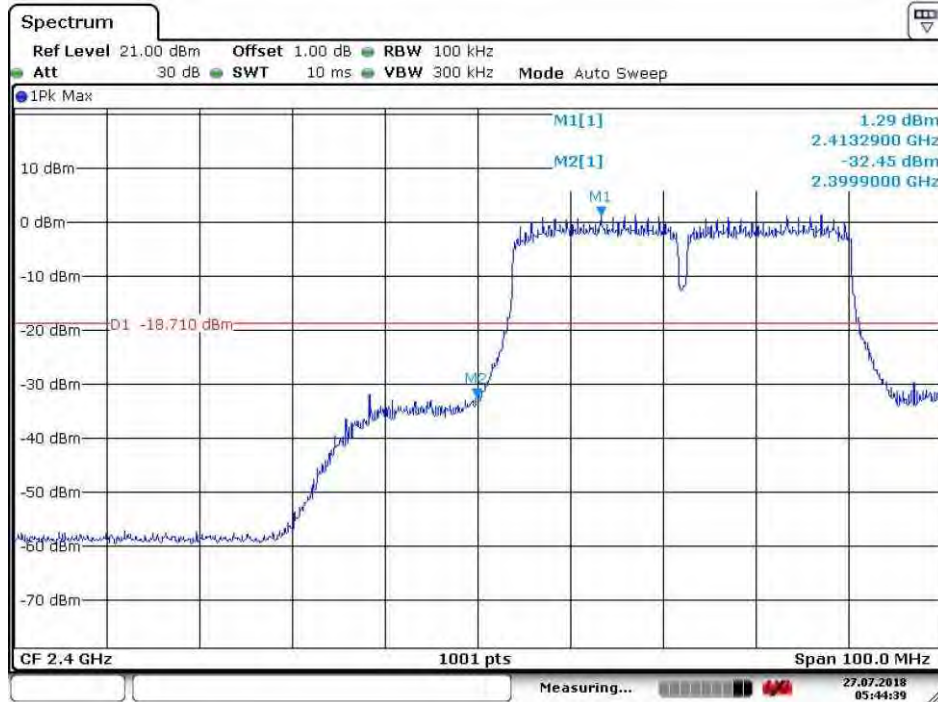
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 27 JUL 2018 05:48:11

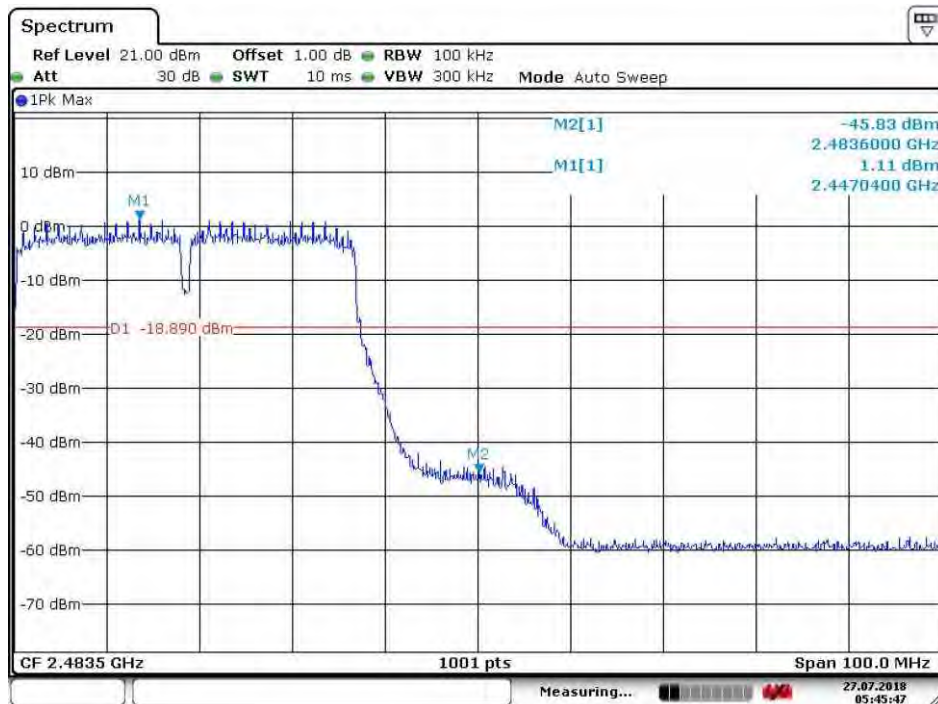


Test mode:	802.11n(HT40)	Test channel:	Lowest
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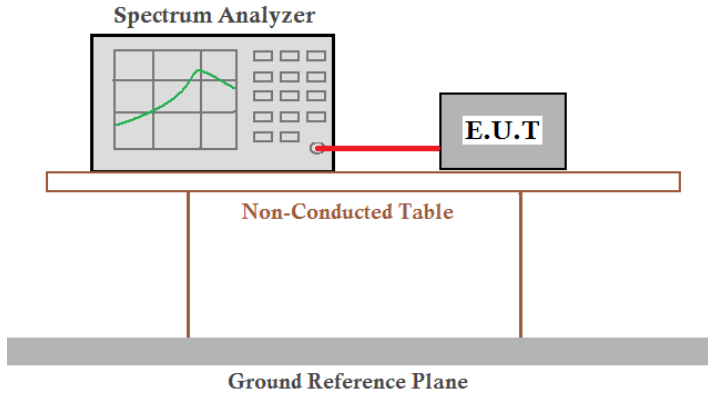
Date: 27 JUL 2018 05:44:39

Test mode:	802.11n(HT40)	Test channel:	Highest
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Date: 27 JUL 2018 05:45:47

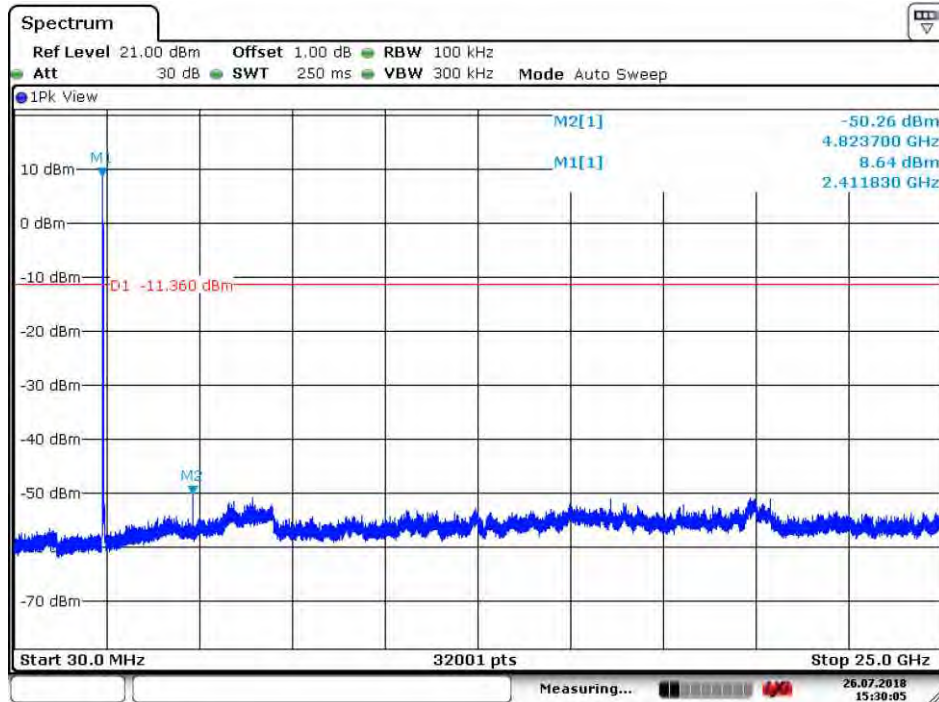
5.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	 The diagram illustrates the test setup for RF conducted spurious emissions. A Spectrum Analyzer is connected to an Equipment Under Test (E.U.T.) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



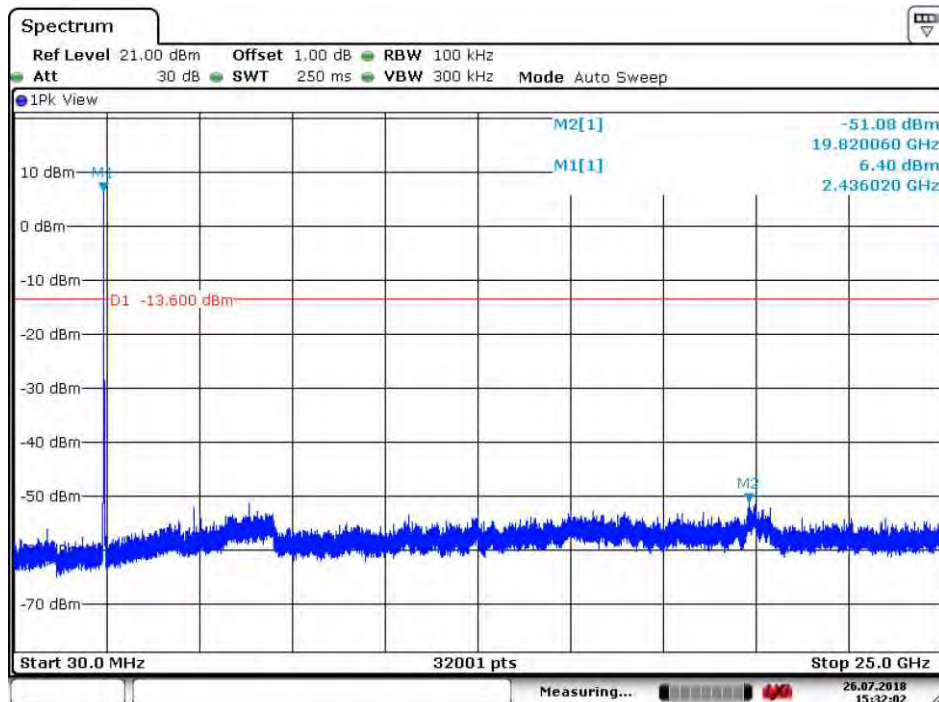
Test plot as follows:
SISO_ANT1

Test mode:	802.11b	Test channel:	Lowest
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Date: 26 JUL 2018 15:30:05

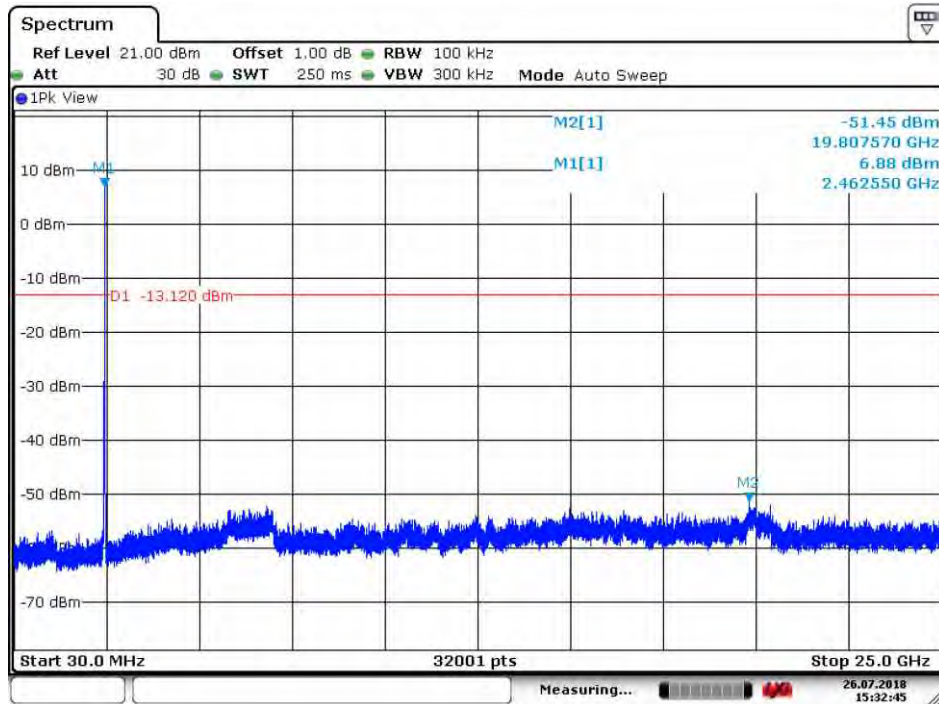
Test mode:	802.11b	Test channel:	Middle
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Date: 26 JUL 2018 15:32:02

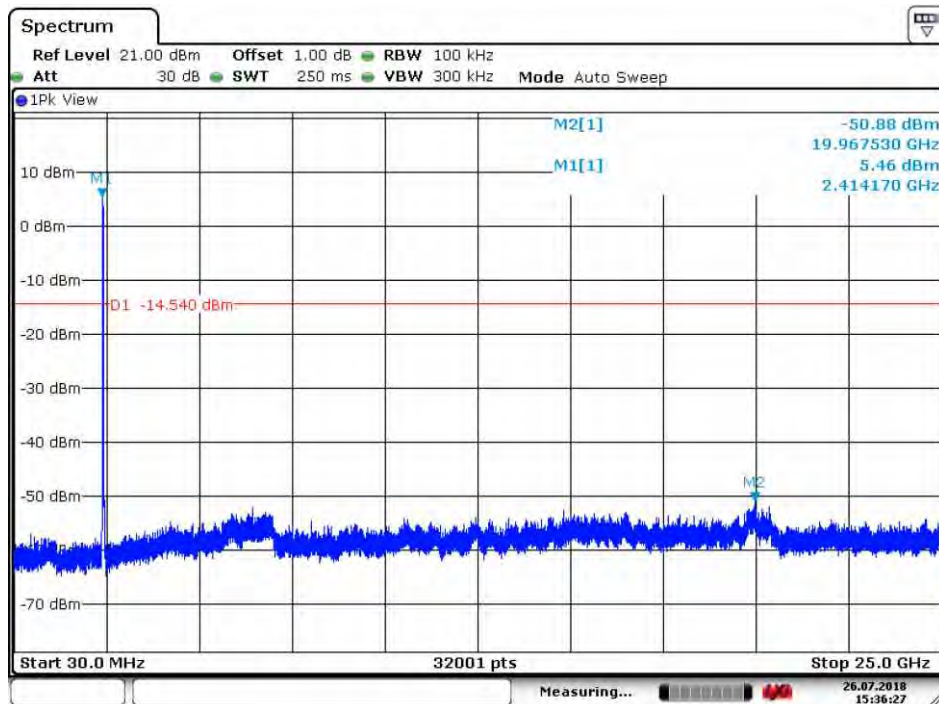


Test mode:	802.11b	Test channel:	Highest
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Date: 26 JUL 2018 15:32:45

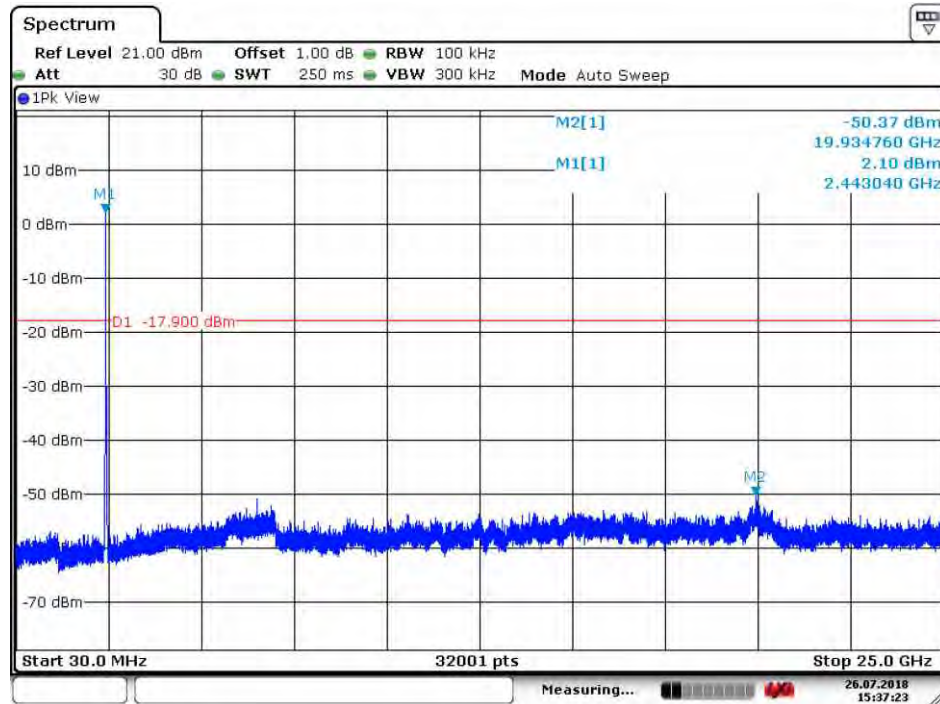
Test mode:	802.11g	Test channel:	Lowest
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Date: 26 JUL 2018 15:36:28

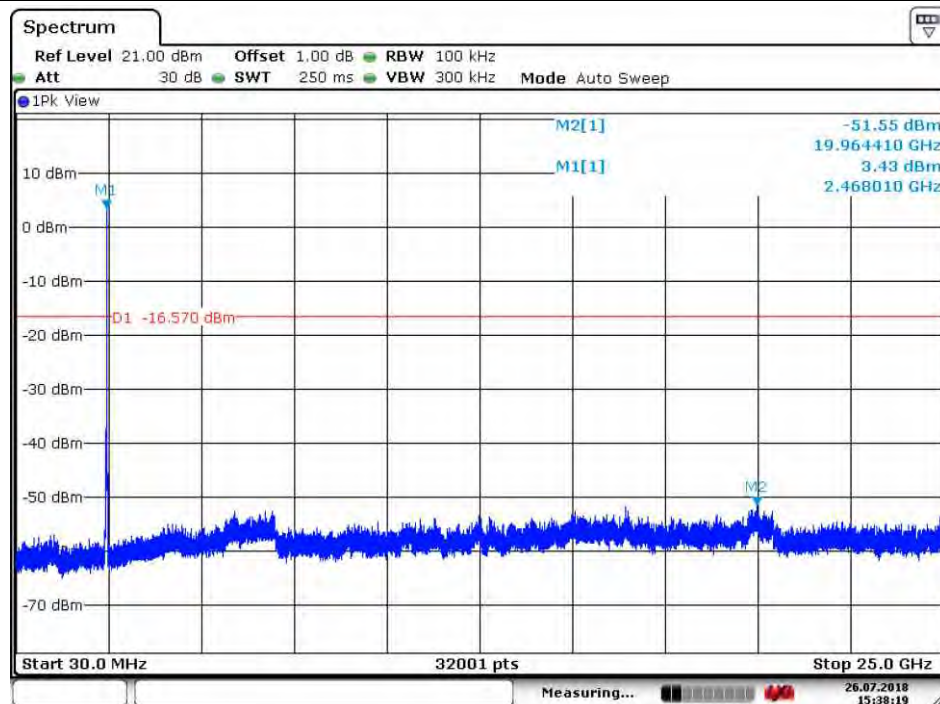


Test mode:	802.11g	Test channel:	Middle
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Date: 26 JUL 2018 15:37:23

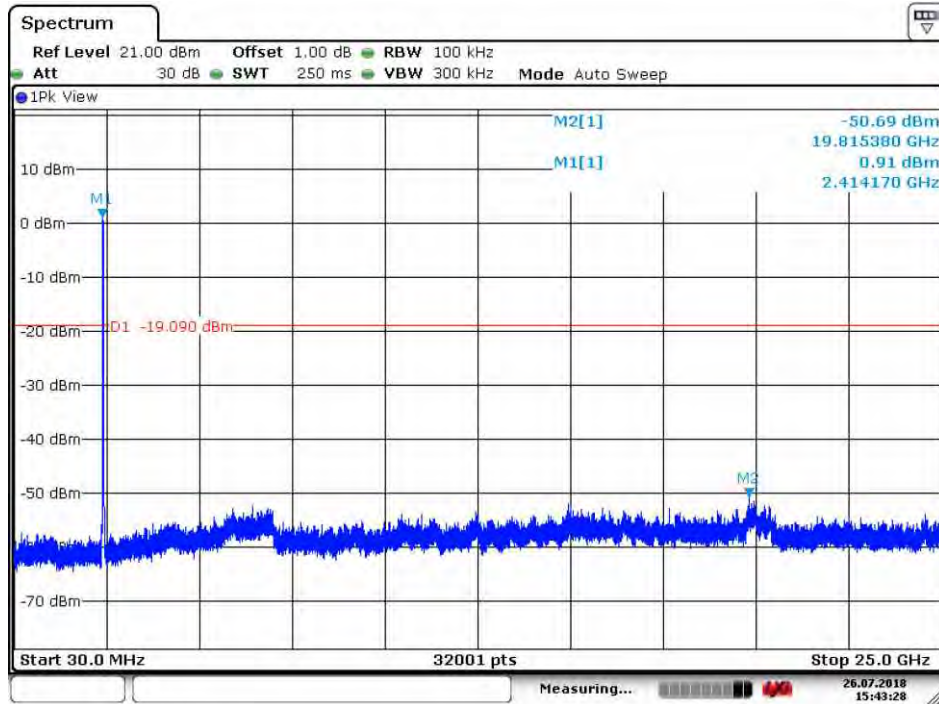
Test mode:	802.11g	Test channel:	Highest
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Date: 26 JUL 2018 15:38:20

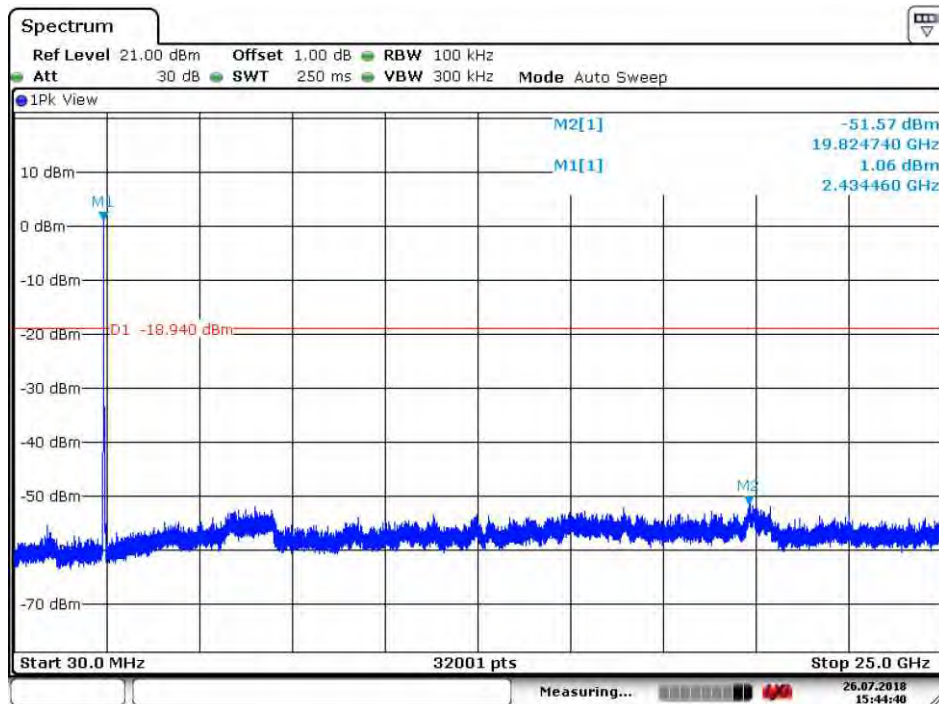


Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 26 JUL 2018 15:43:28

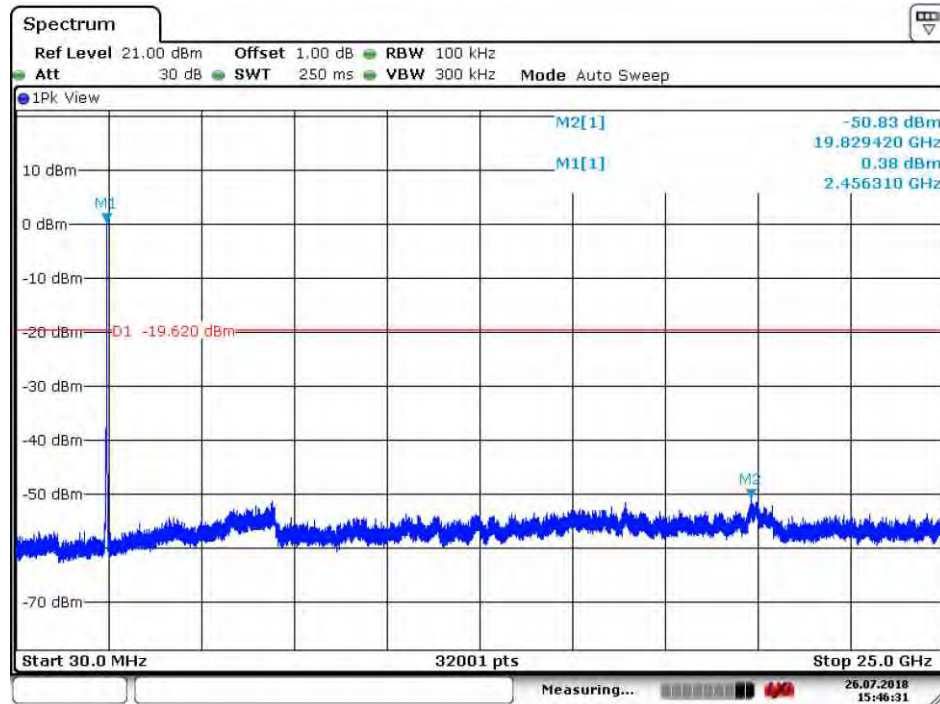
Test mode:	802.11n(HT20)	Test channel:	Middle
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Date: 26 JUL 2018 15:44:40

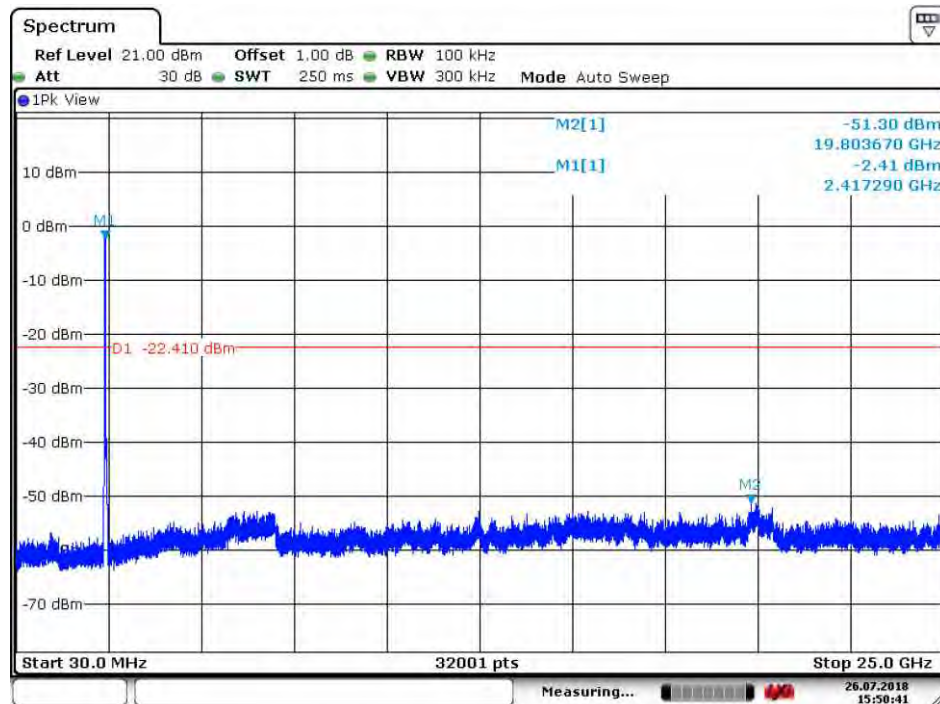


Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 26 JUL 2018 15:46:32

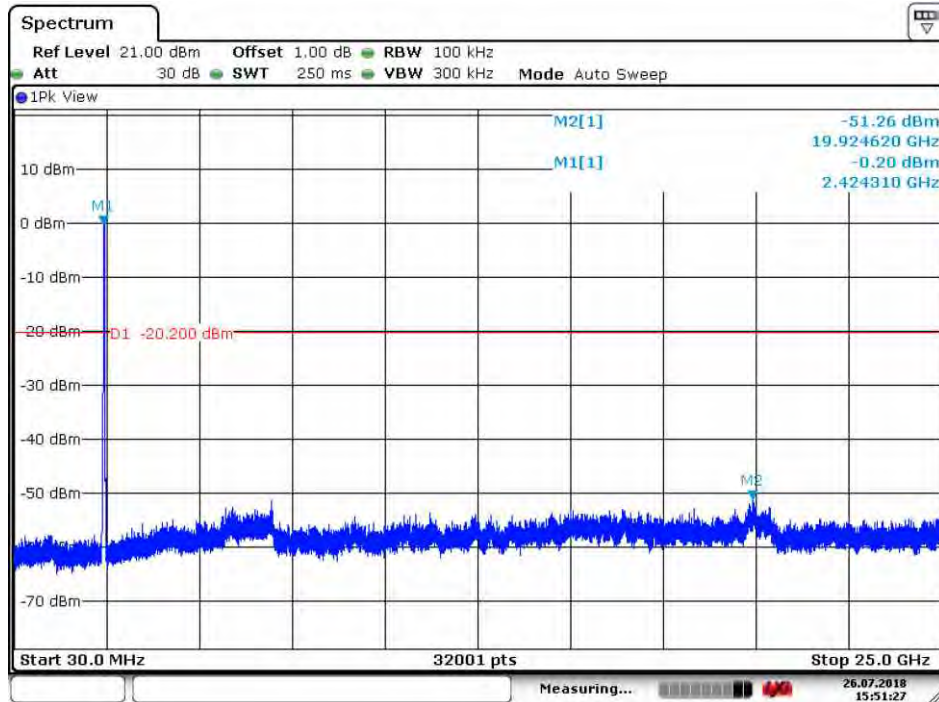
Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 26 JUL 2018 15:50:41

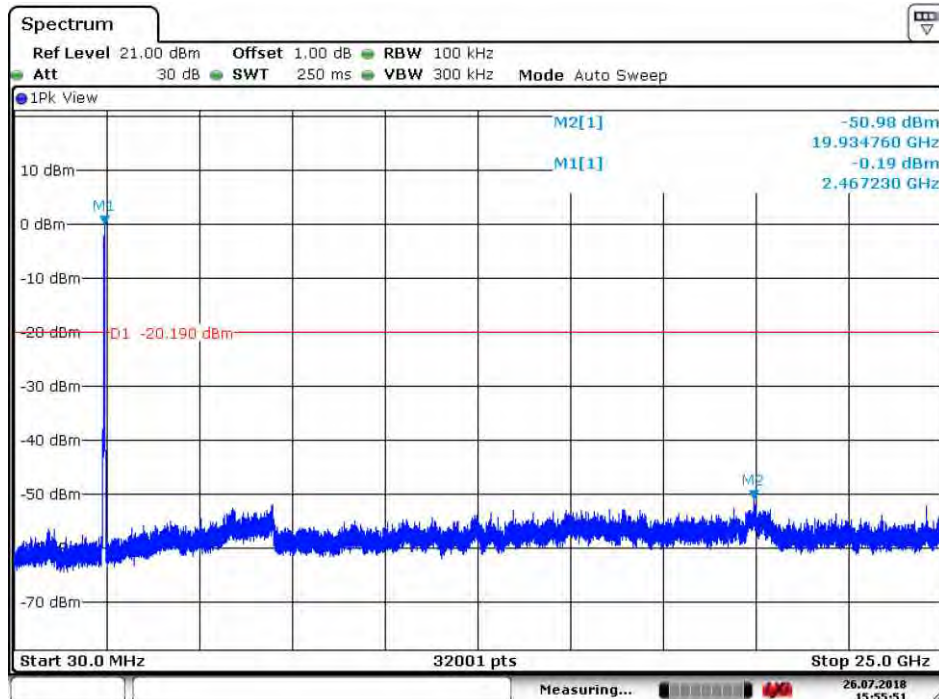


Test mode:	802.11n(HT40)	Test channel:	Middle
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Date: 26 JUL 2018 15:51:28

Test mode:	802.11n(HT40)	Test channel:	Highest
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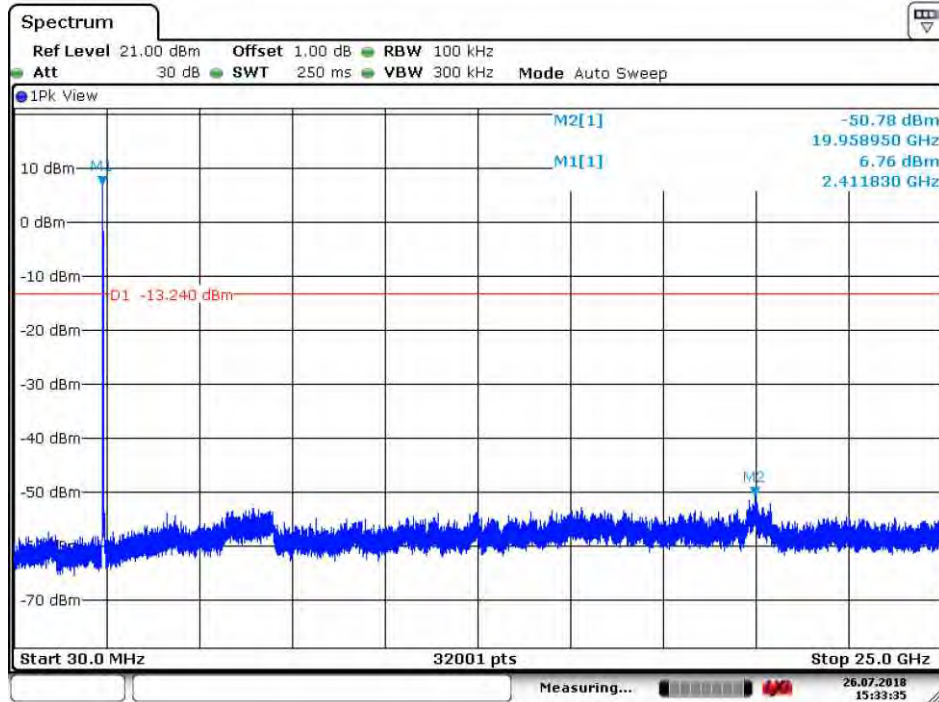


Date: 26 JUL 2018 15:55:51



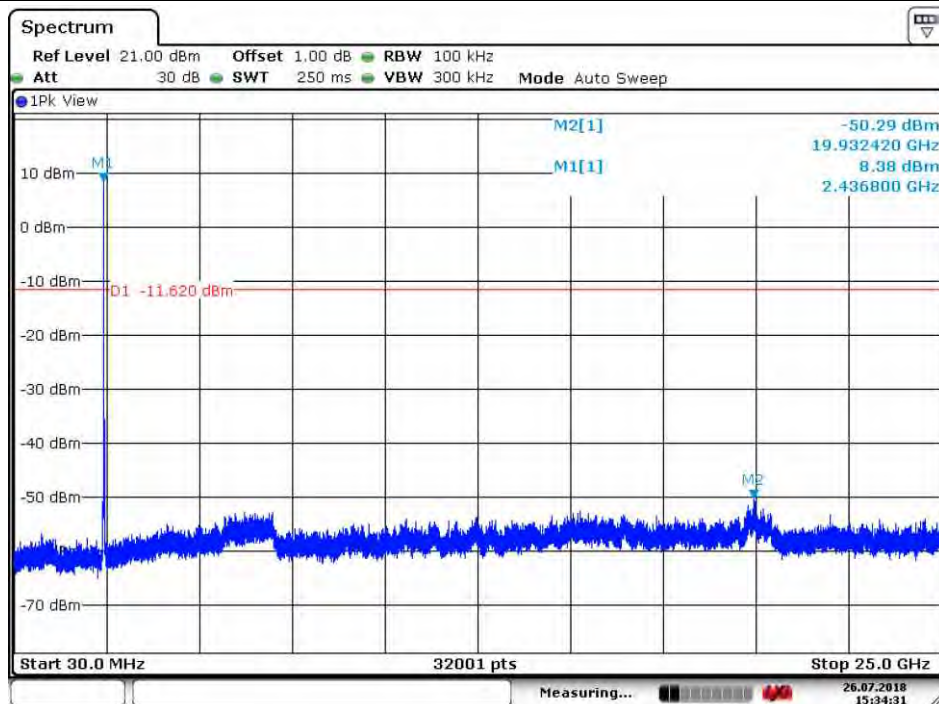
SISO_ANT2

Test mode:	802.11b	Test channel:	Lowest
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Date: 26 JUL 2018 15:33:35

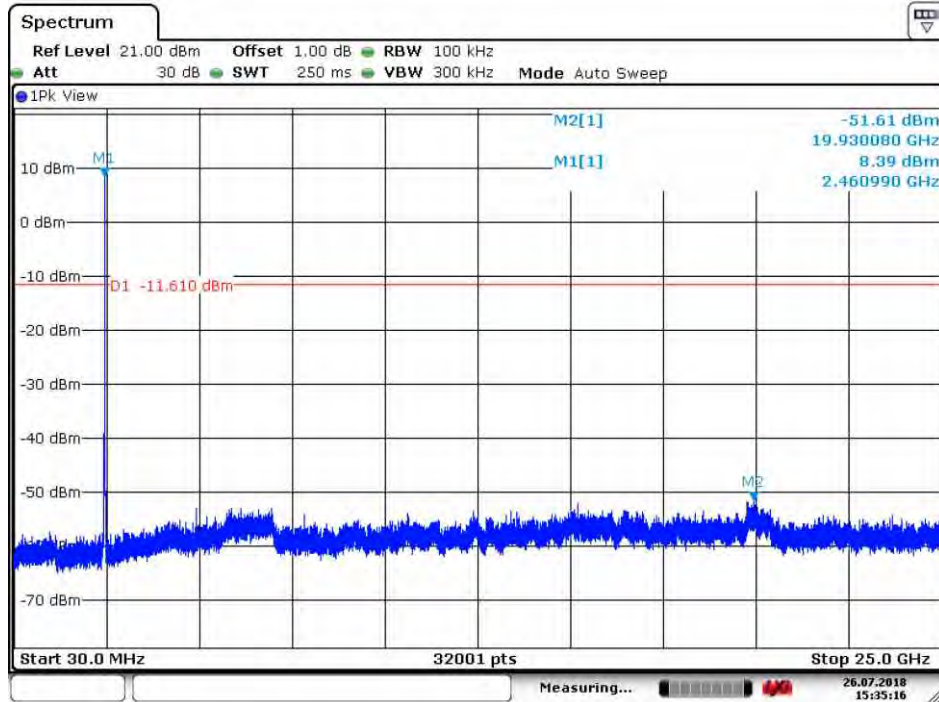
Test mode:	802.11b	Test channel:	Middle
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Date: 26 JUL 2018 15:34:31

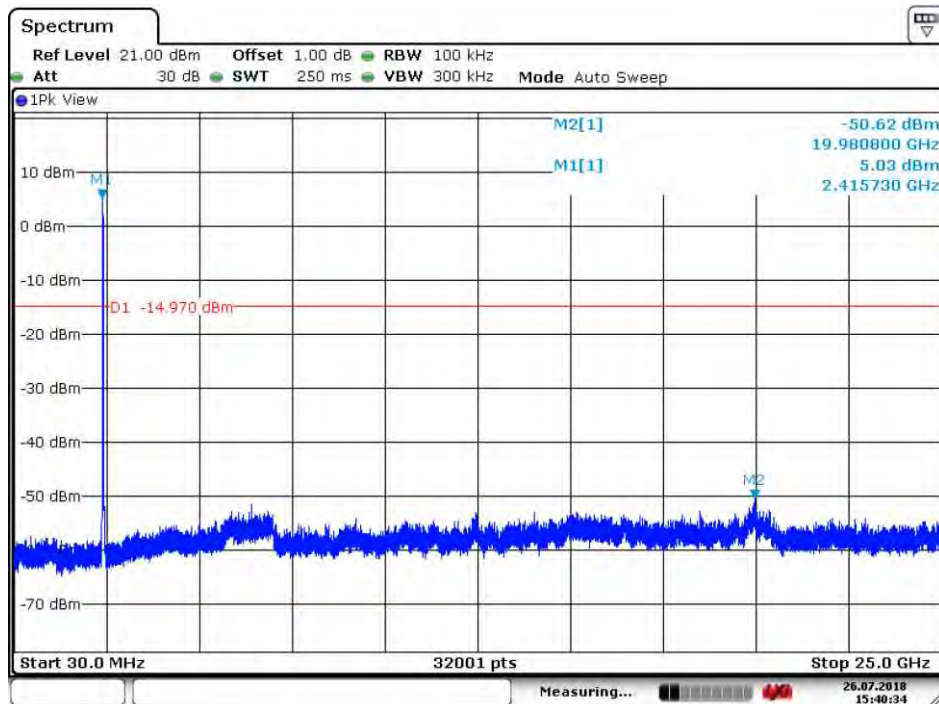


Test mode:	802.11b	Test channel:	Highest
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Date: 26 JUL 2018 15:35:17

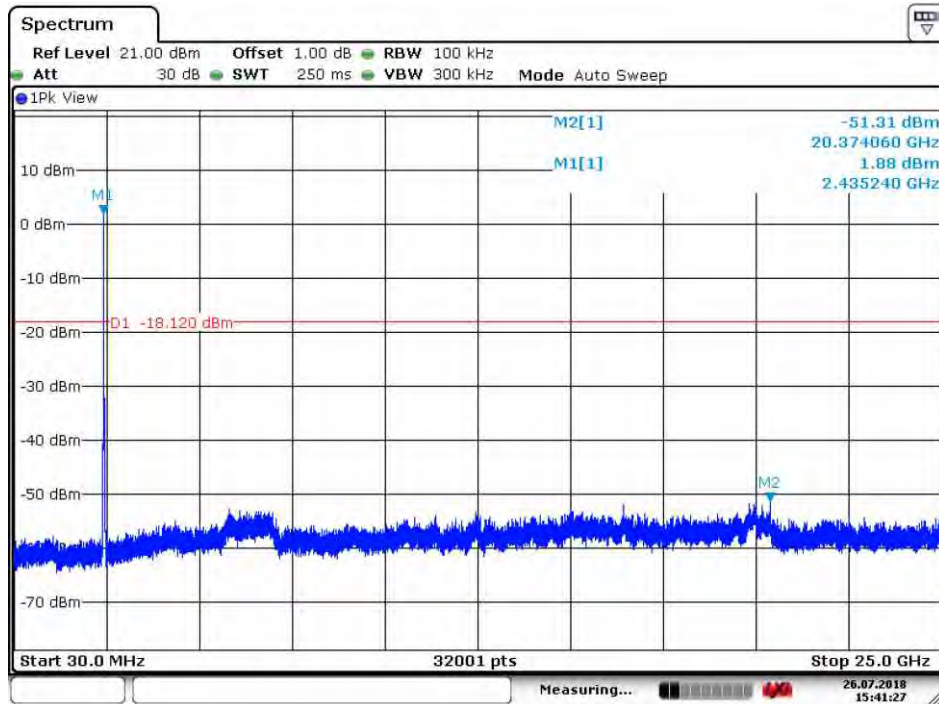
Test mode:	802.11g	Test channel:	Lowest
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Date: 26 JUL 2018 15:40:35

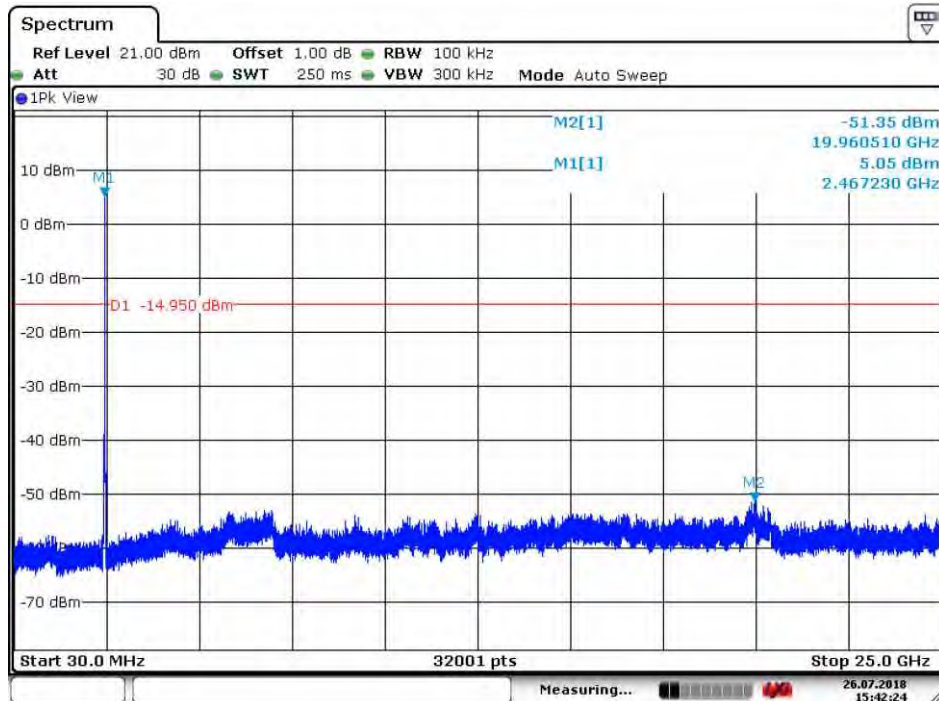


Test mode:	802.11g	Test channel:	Middle
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Date: 26 JUL 2018 15:41:28

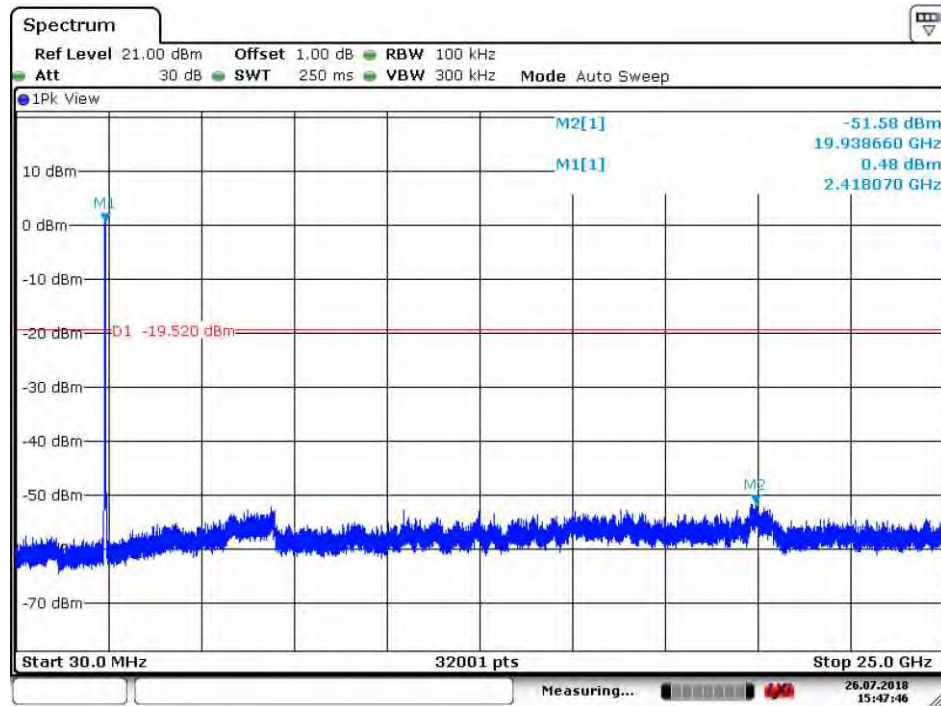
Test mode:	802.11g	Test channel:	Highest
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Date: 26 JUL 2018 15:42:24

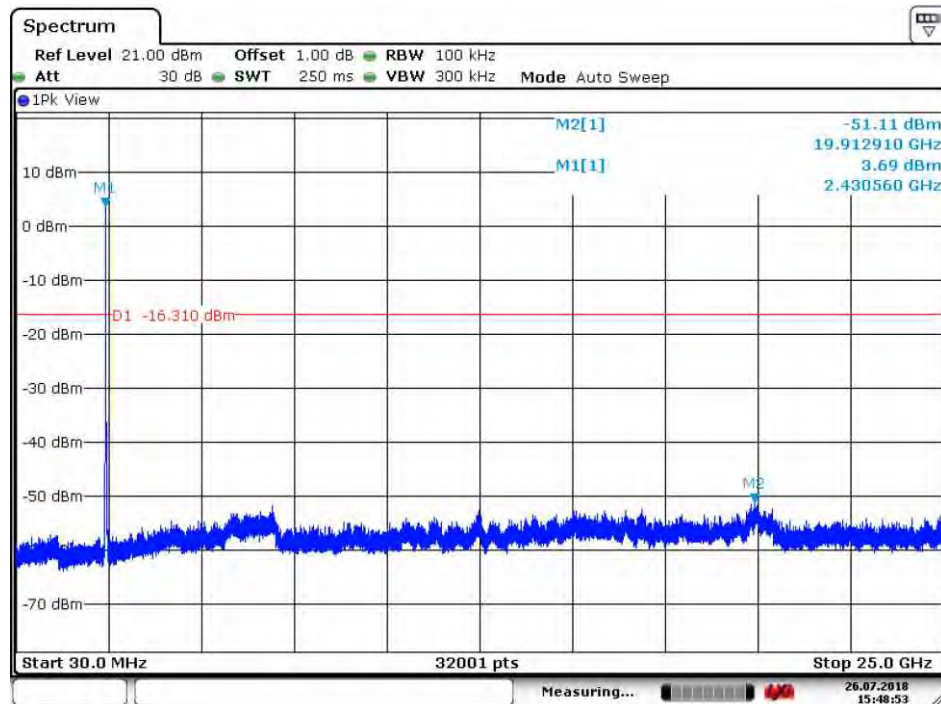


Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 26 JUL 2018 15:47:46

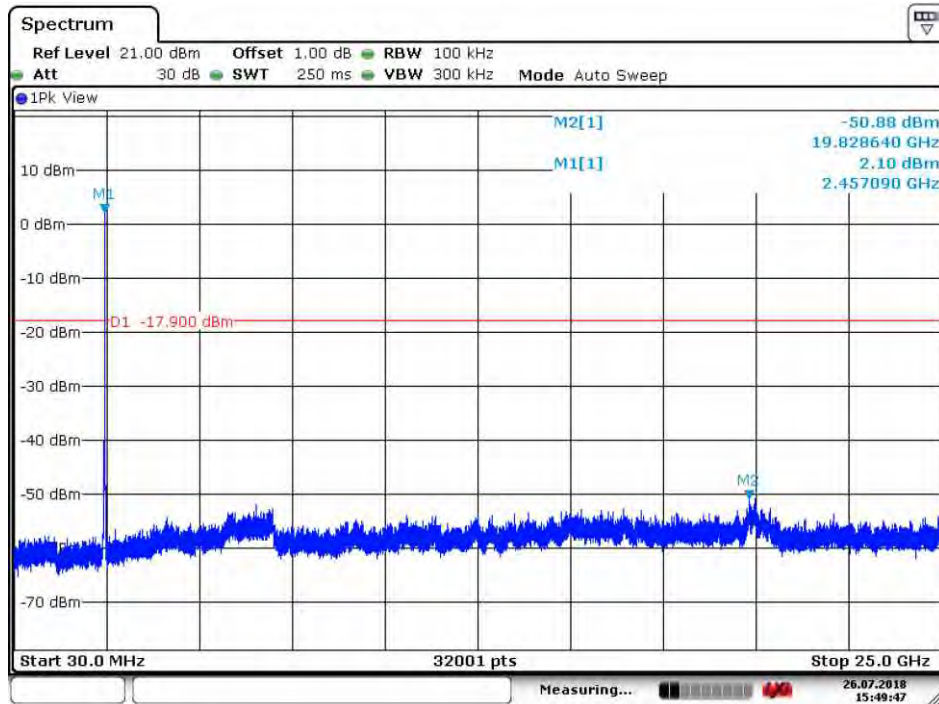
Test mode:	802.11n(HT20)	Test channel:	Middle
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Date: 26 JUL 2018 15:48:54

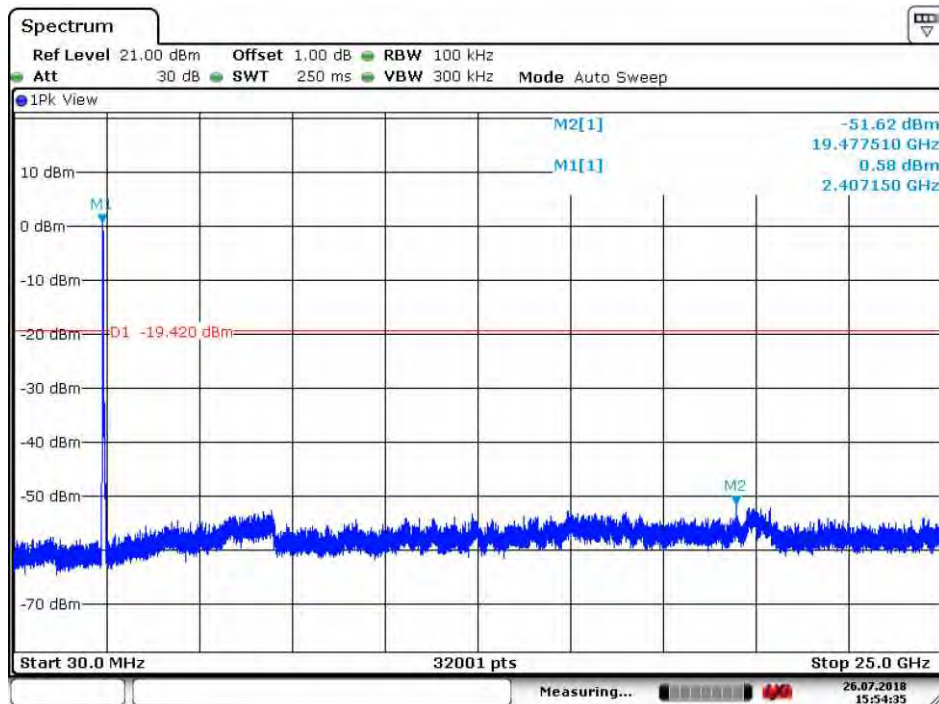


Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 26 JUL 2018 15:49:48

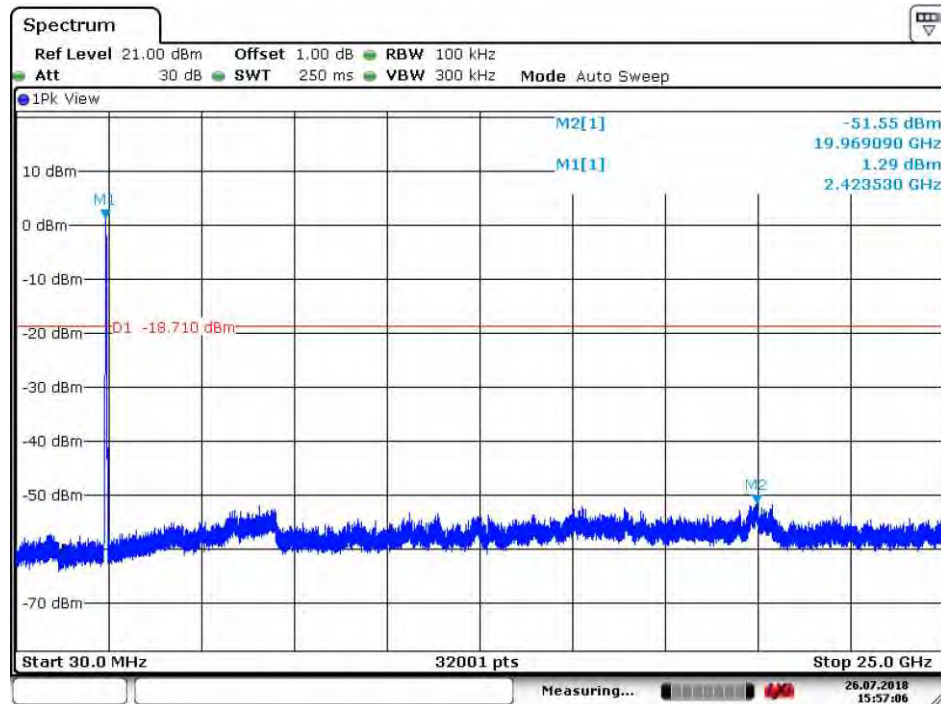
Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 26 JUL 2018 15:54:35

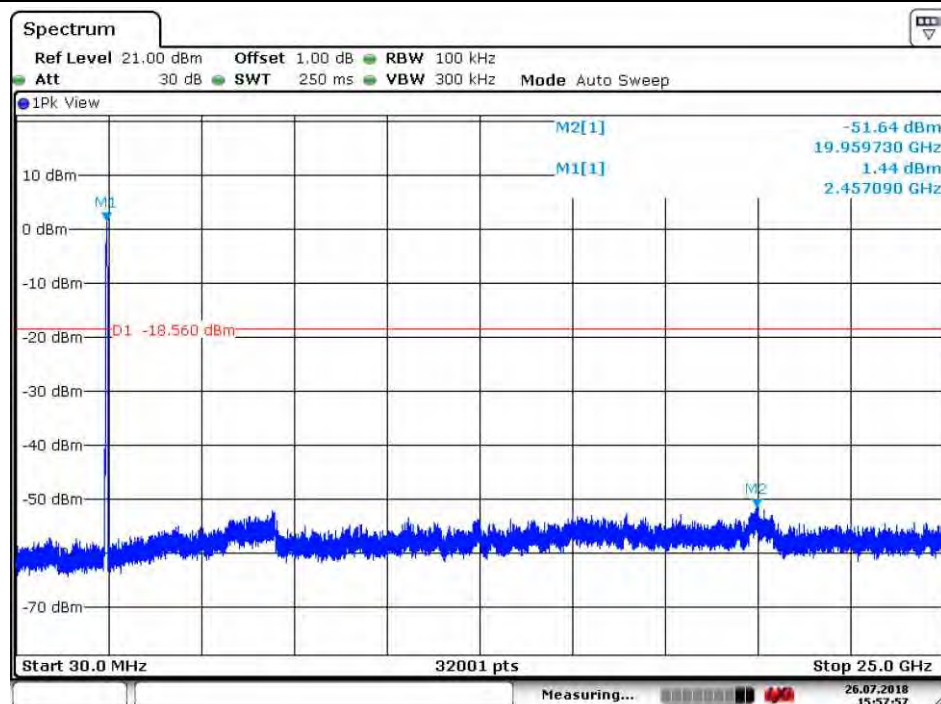


Test mode:	802.11n(HT40)	Test channel:	Middle
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Date: 26 JUL 2018 15:57:06

Test mode:	802.11n(HT40)	Test channel:	Highest
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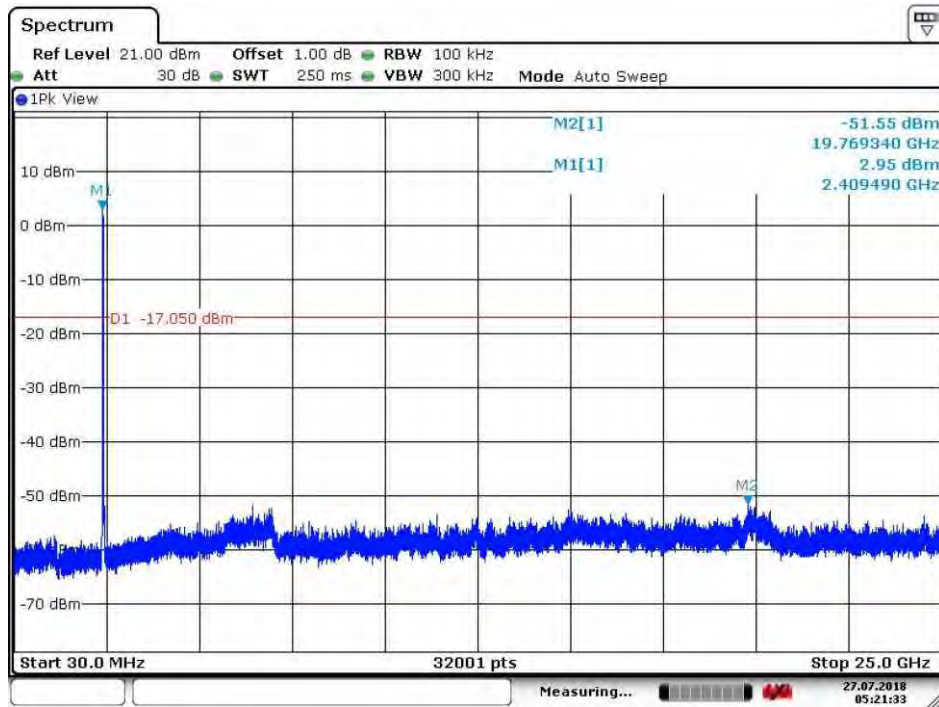


Date: 26 JUL 2018 15:57:57



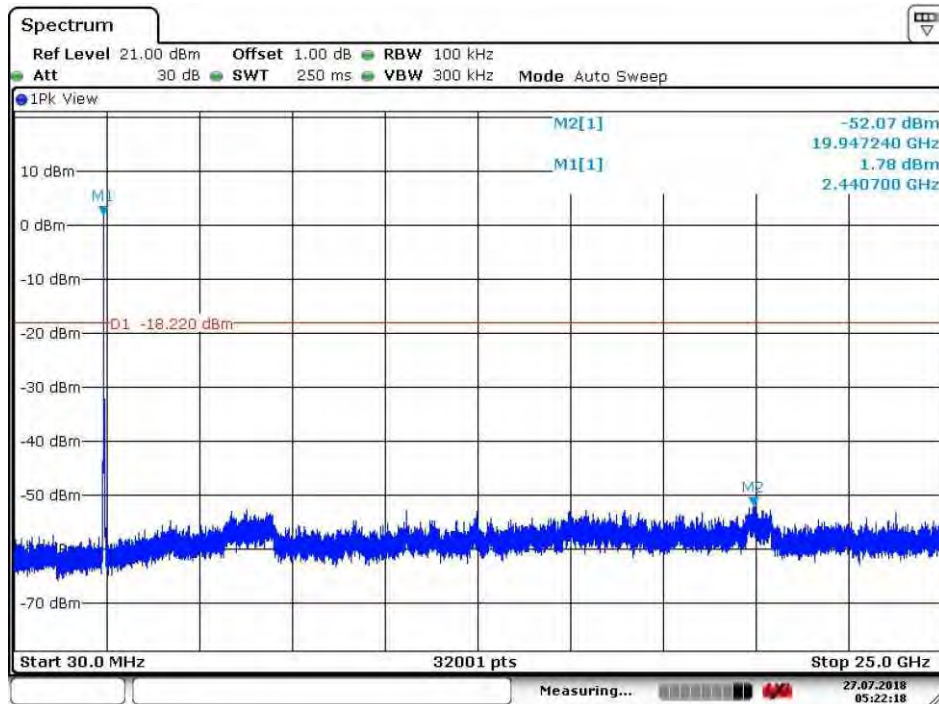
CDD_ANT1

Test mode:	802.11g	Test channel:	Lowest
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Date: 27.JUL.2018 05:21:33

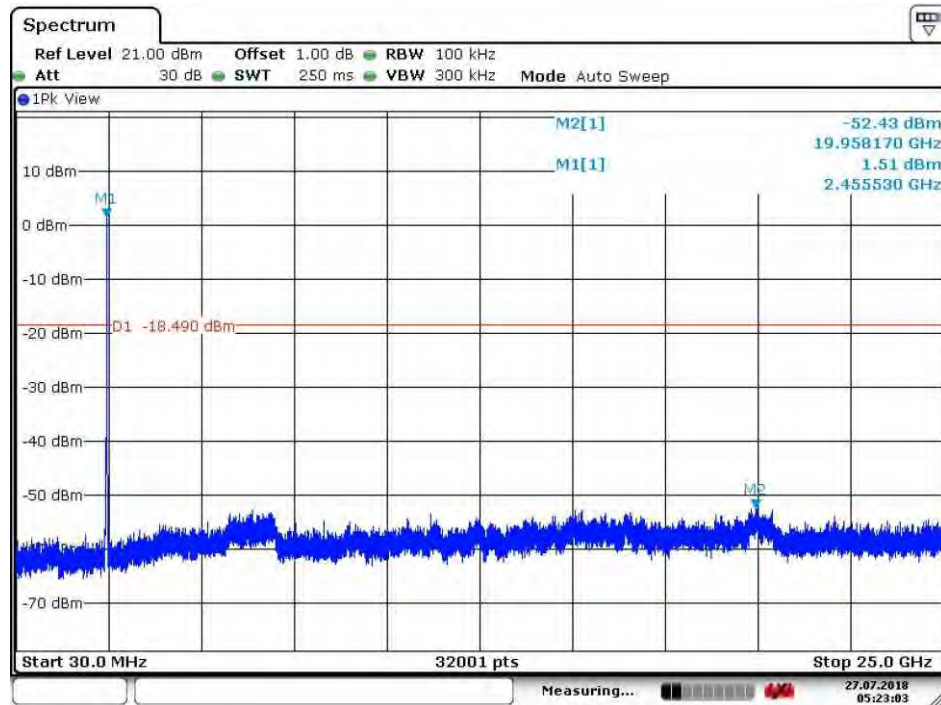
Test mode:	802.11g	Test channel:	Middle
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Date: 27.JUL.2018 05:22:19



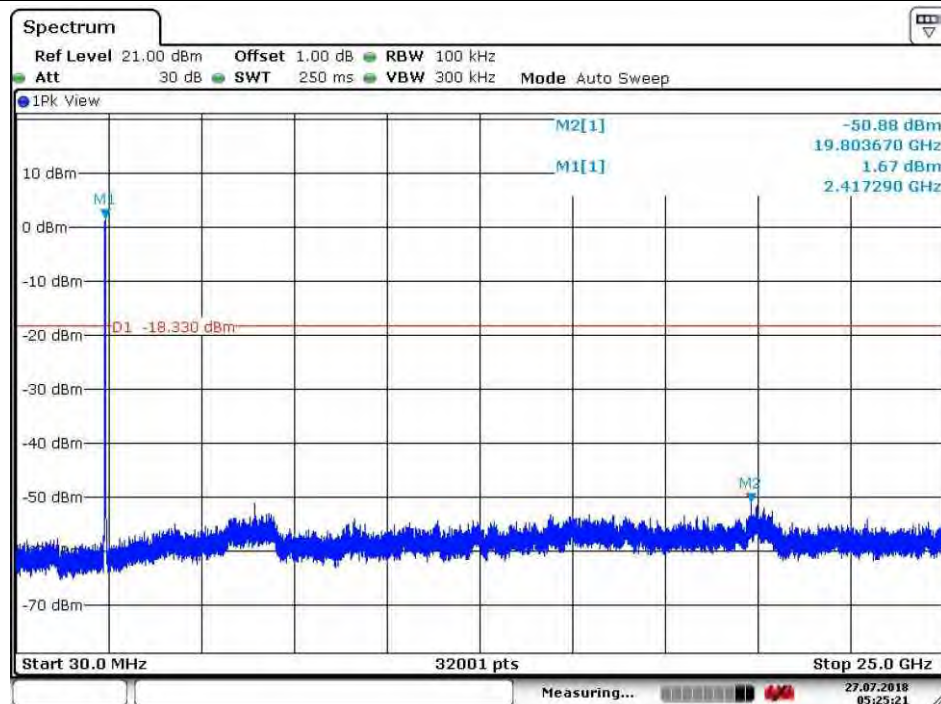
Test mode:	802.11g	Test channel:	Highest
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Date: 27.JUL.2018 05:23:03

MIMO_ANT1

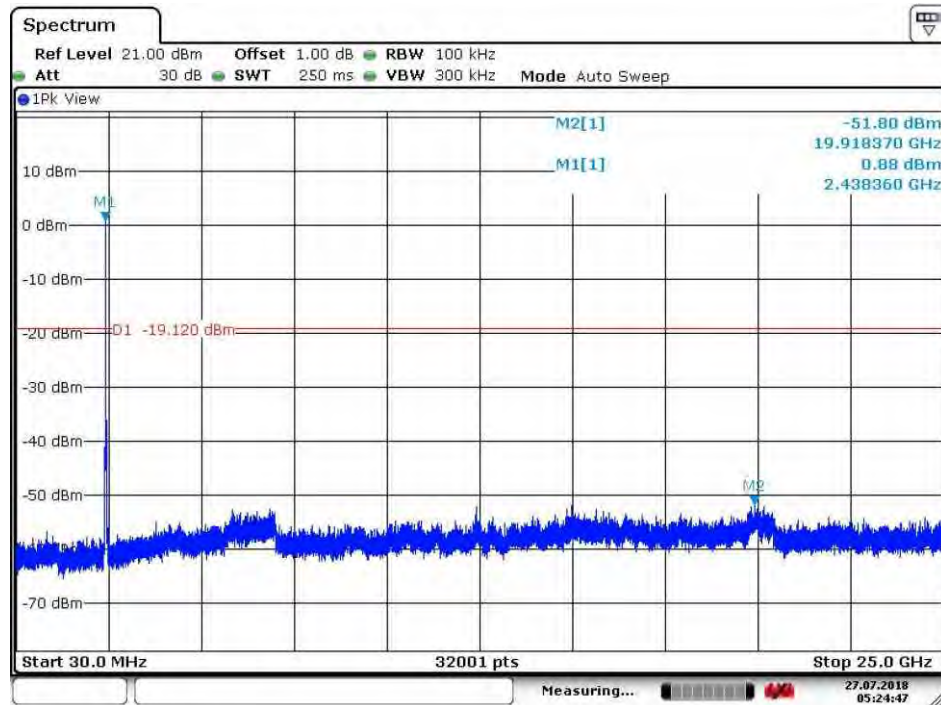
Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 27.JUL.2018 05:25:21

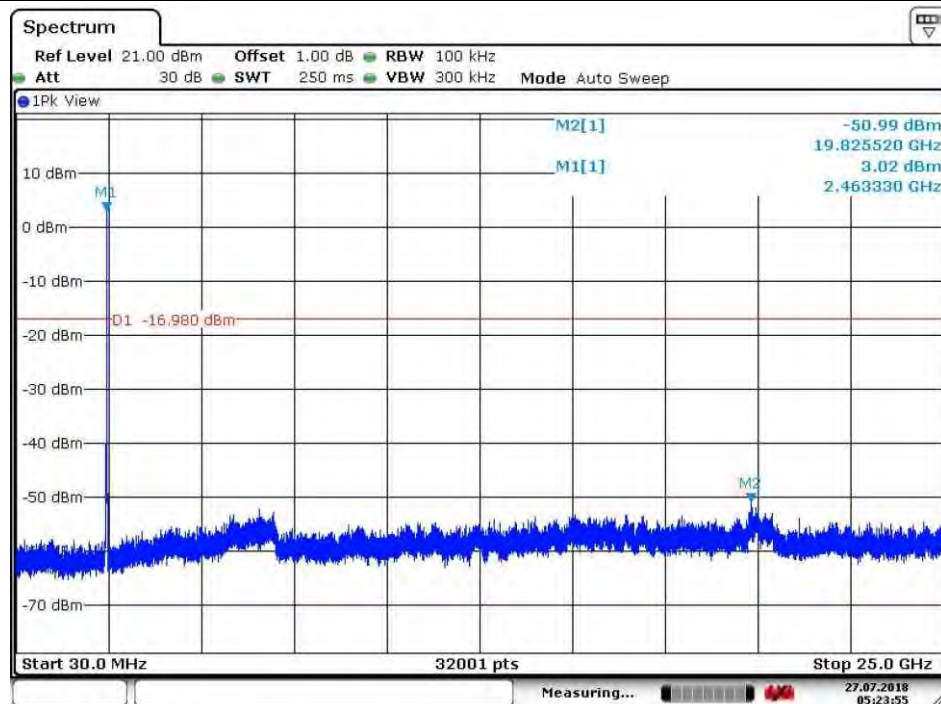


Test mode:	802.11n(HT20)	Test channel:	Middle
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Date: 27.JUL.2018 05:24:48

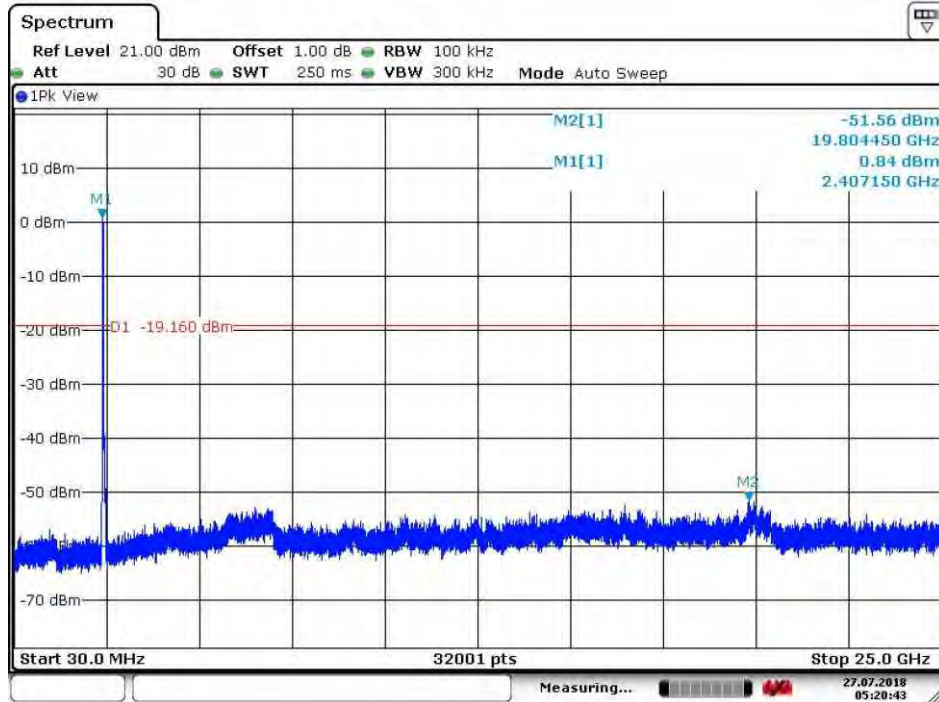
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 27.JUL.2018 05:23:55

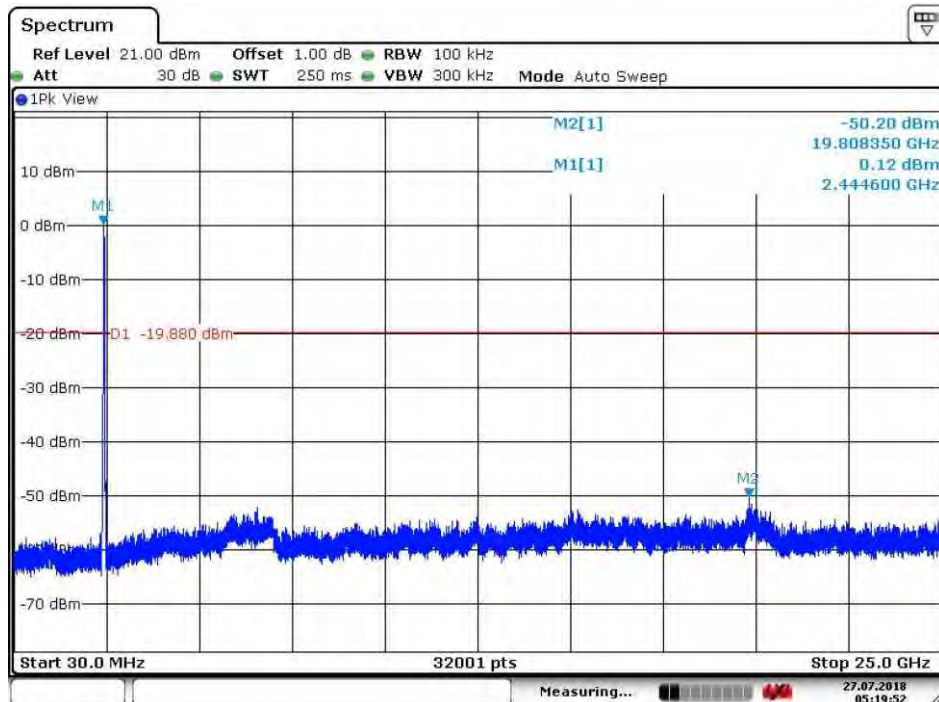


Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 27 JUL 2018 05:20:44

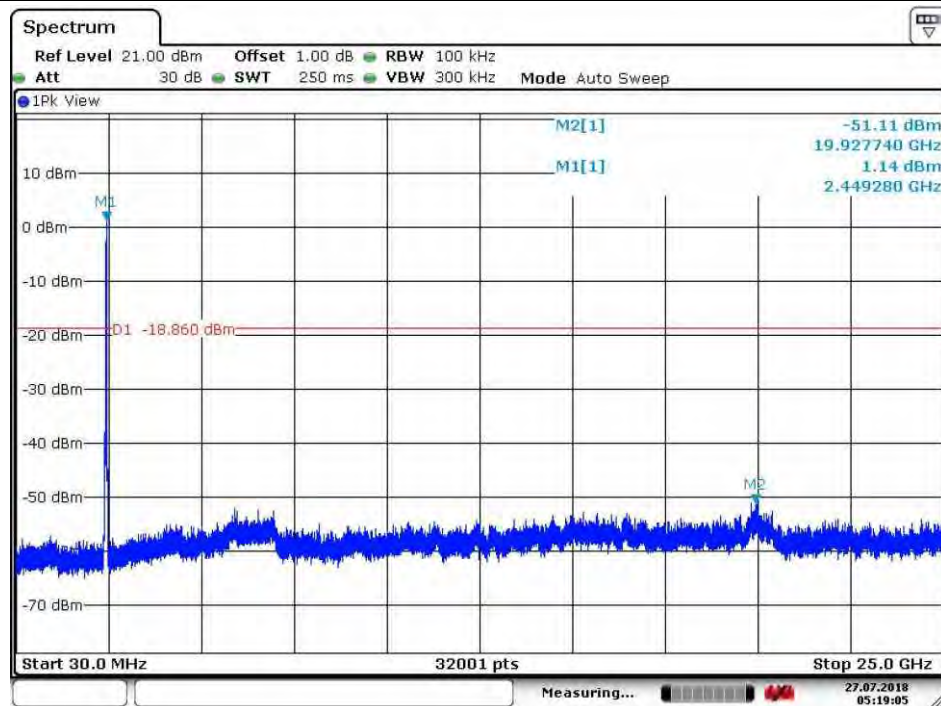
Test mode:	802.11n(HT40)	Test channel:	Middle
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Date: 27 JUL 2018 05:19:52



Test mode:	802.11n(HT40)	Test channel:	Highest
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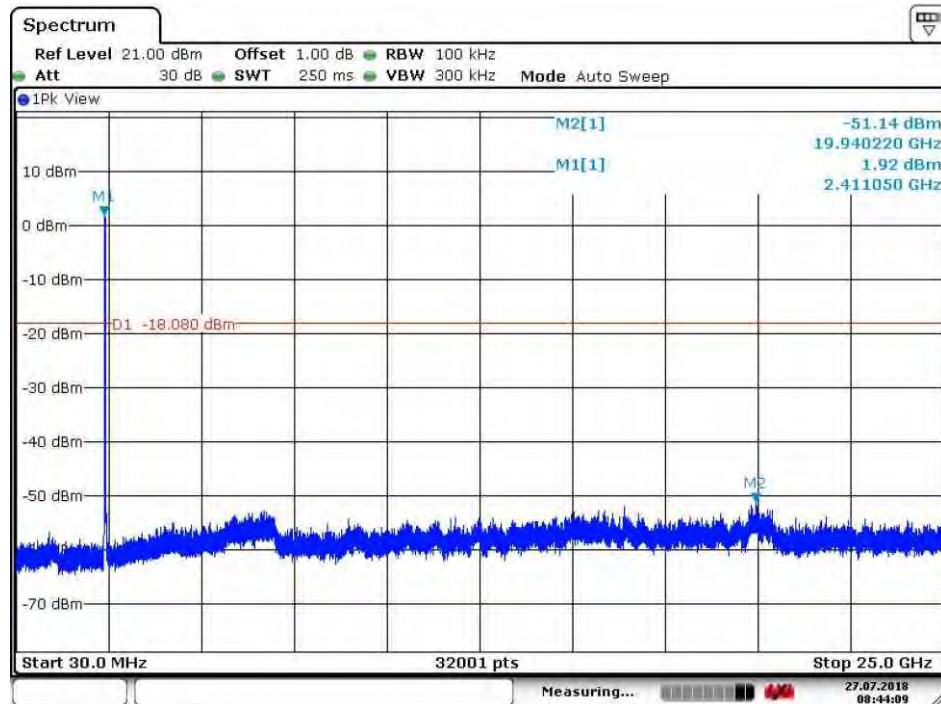


Date: 27.JUL.2018 05:19:05



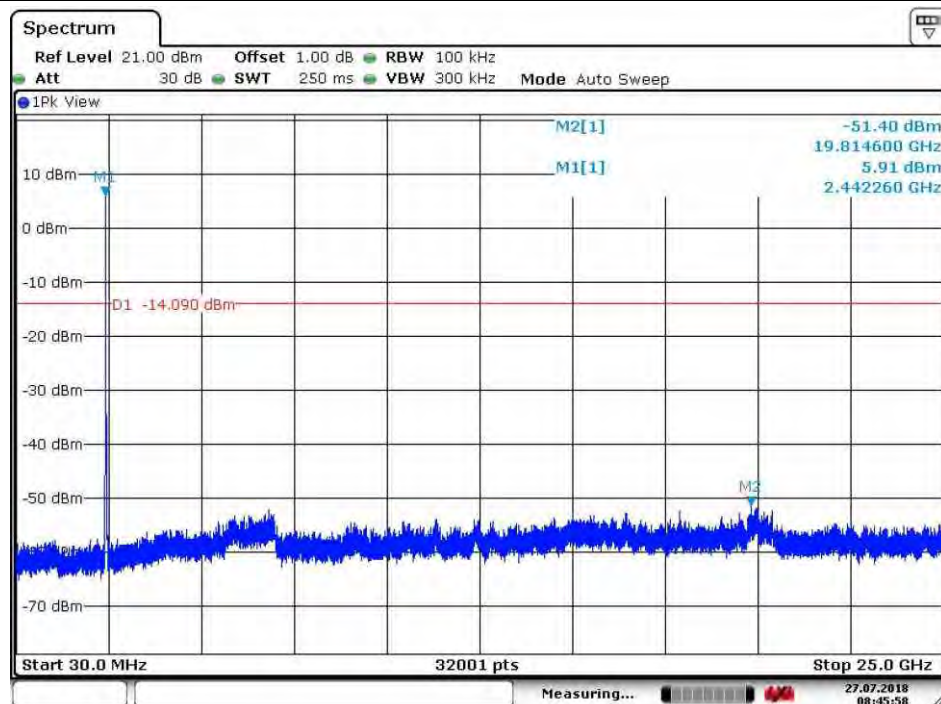
CDD_ANT2

Test mode:	802.11g	Test channel:	Lowest
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Date: 27.JUL.2018 08:44:09

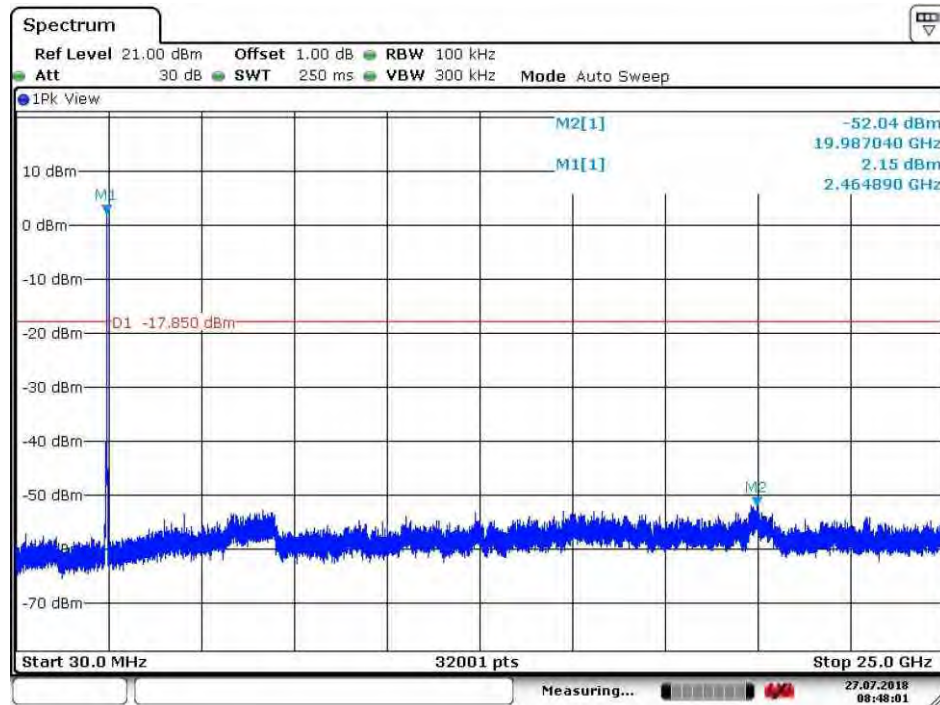
Test mode:	802.11g	Test channel:	Middle
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Date: 27.JUL.2018 08:45:58



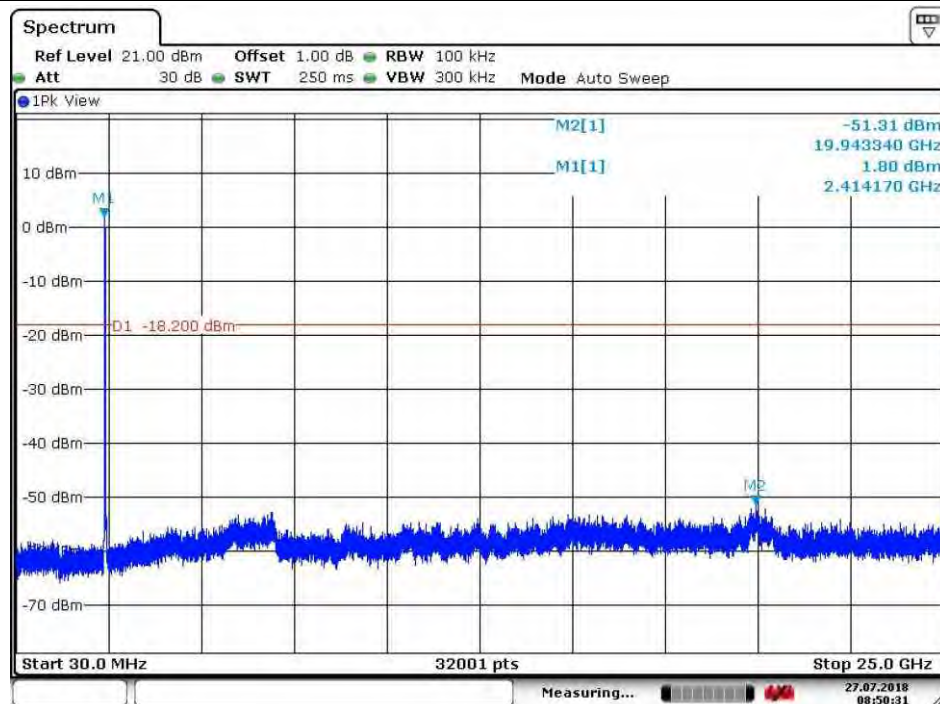
Test mode:	802.11g	Test channel:	Highest
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Date: 27.JUL.2018 08:48:01

MIMO_ANT2

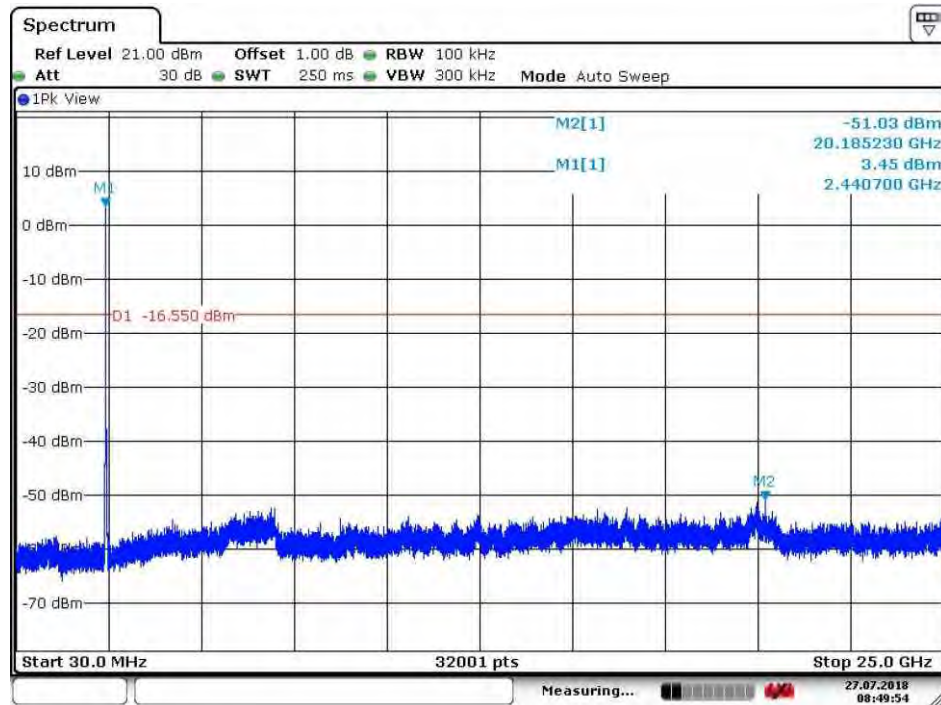
Test mode:	802.11n(HT20)	Test channel:	Lowest
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Date: 27.JUL.2018 08:50:31

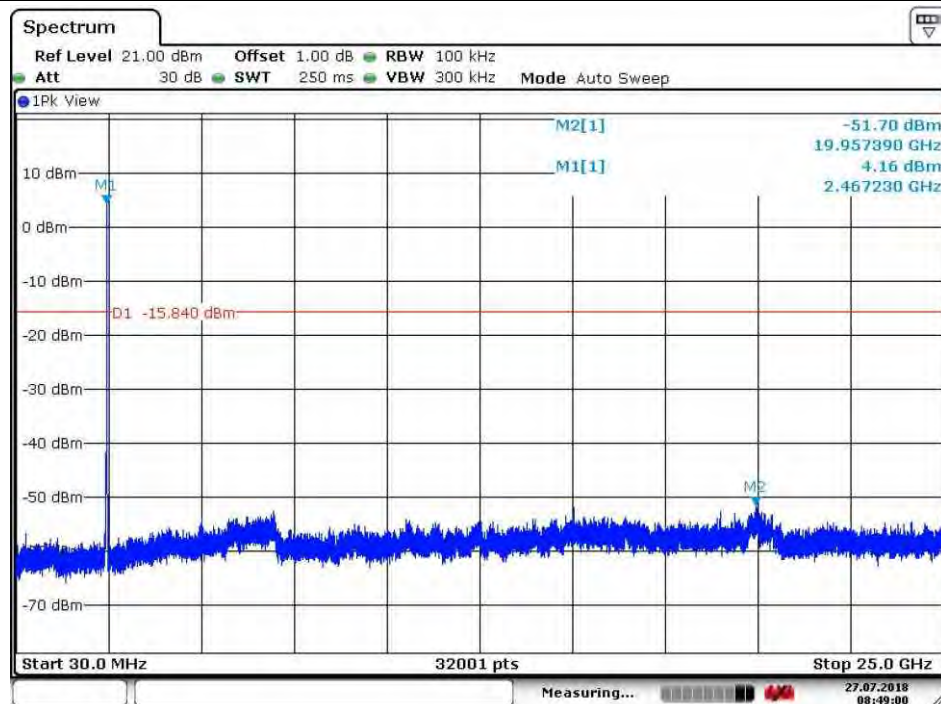


Test mode:	802.11n(HT20)	Test channel:	Middle
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Date: 27.JUL.2018 08:49:55

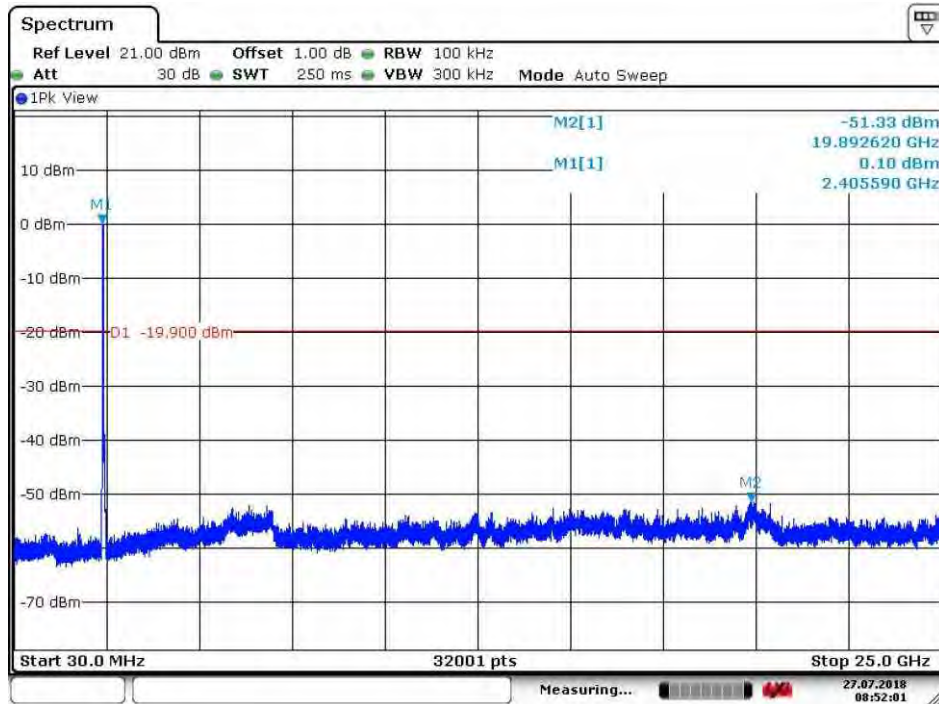
Test mode:	802.11n(HT20)	Test channel:	Highest
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Date: 27.JUL.2018 08:49:01

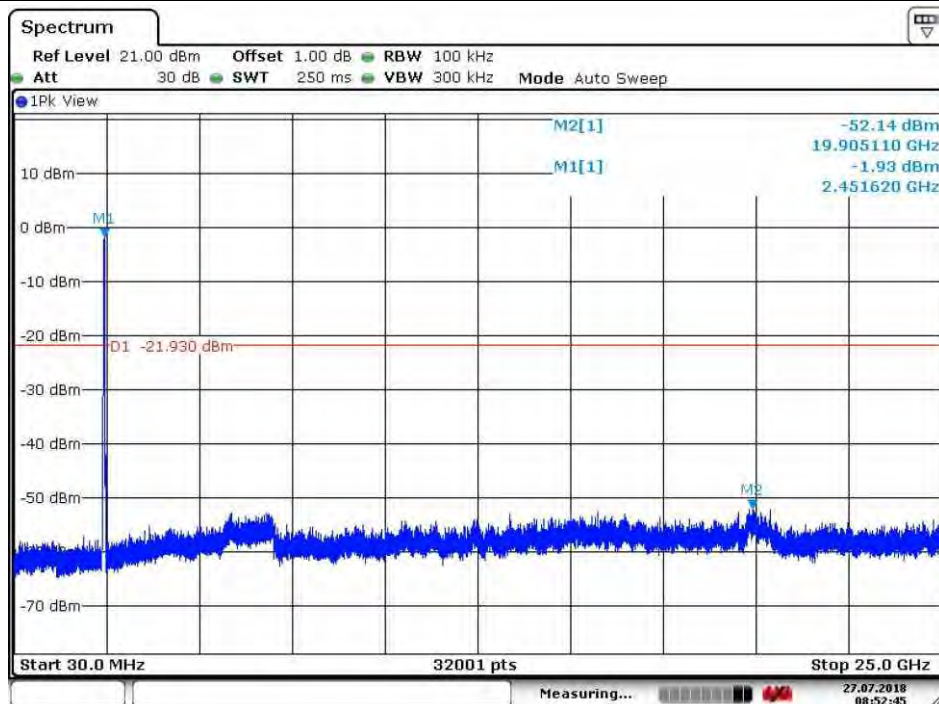


Test mode:	802.11n(HT40)	Test channel:	Lowest
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Date: 27 JUL 2018 08:52:01

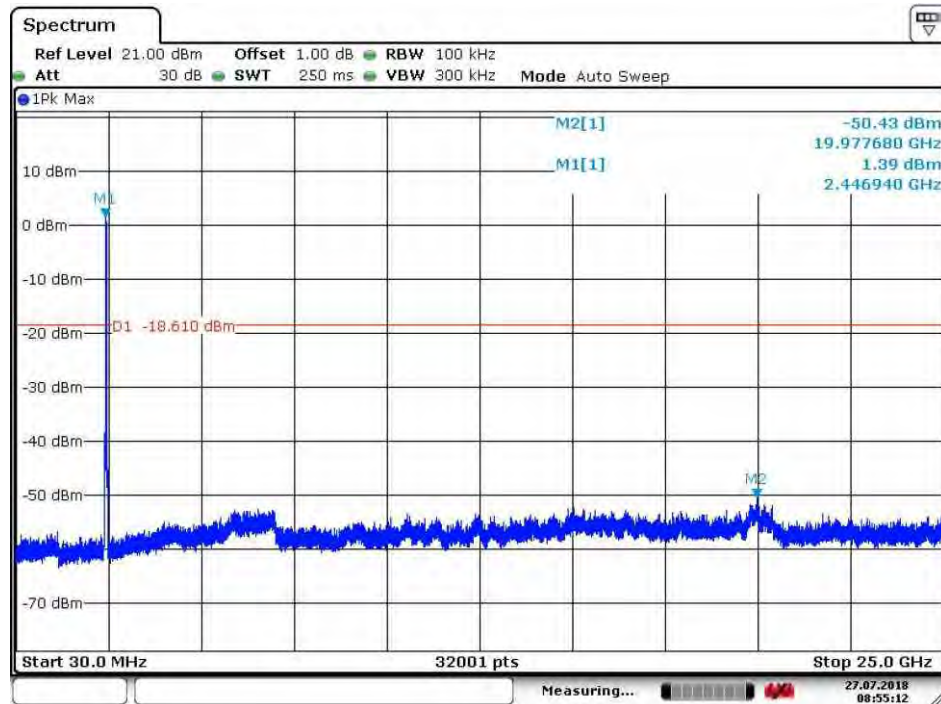
Test mode:	802.11n(HT40)	Test channel:	Middle
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Date: 27 JUL 2018 08:52:45



Test mode:	802.11n(HT40)	Test channel:	Highest
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Date: 27.JUL.2018 08:55:12

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

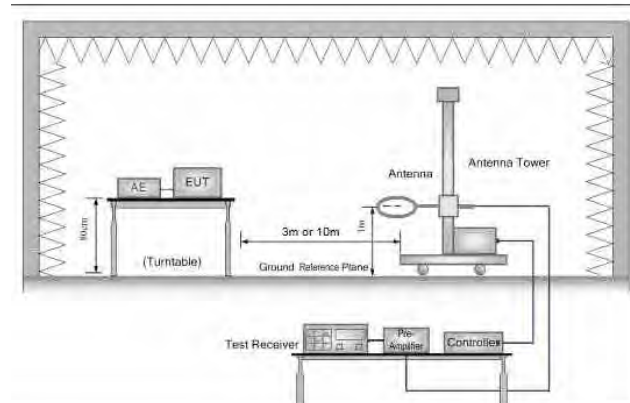


Figure 1. Below 30MHz

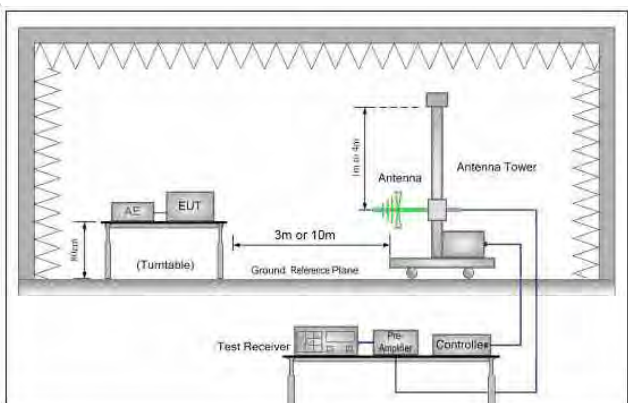


Figure 2. 30MHz to 1GHz

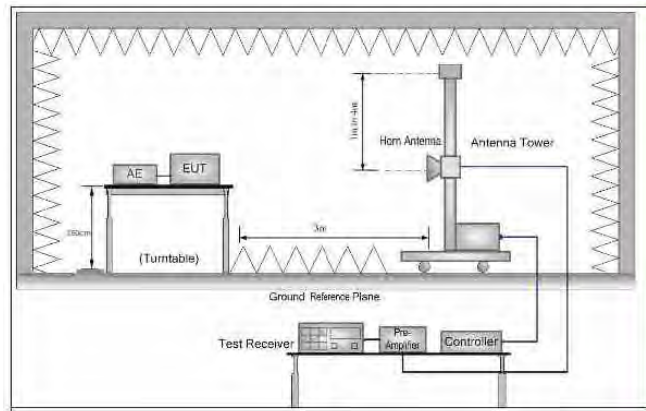


Figure 3. Above 1 GHz

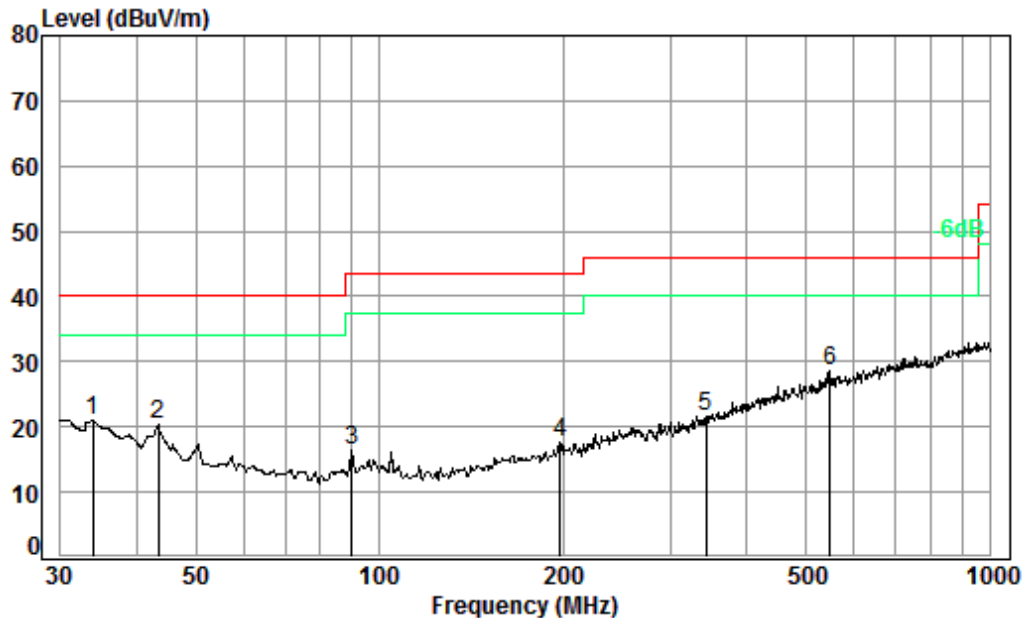
Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. - Test the EUT in the lowest channel ,the middle channel ,the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

Note1: Mode d= WiFi 2.4G RSE from 30MHz-1GHz



5.9.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 3m VERTICAL

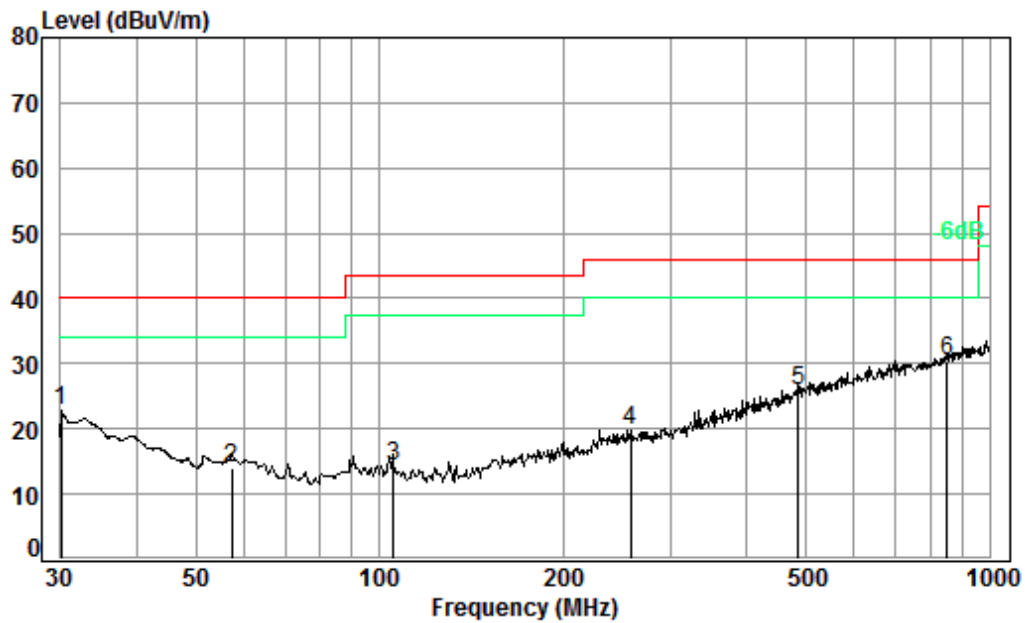
Job No. : 06549RG

Test mode: d

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.92	0.60	20.37	27.44	27.44	20.97	40.00	-19.03
2	43.35	0.67	16.31	27.42	30.77	20.33	40.00	-19.67
3	90.22	1.10	13.12	27.36	29.50	16.36	43.50	-27.14
4	197.89	1.40	16.44	26.91	26.75	17.68	43.50	-25.82
5	343.18	2.04	20.91	26.89	25.52	21.58	46.00	-24.42
6 pp	547.10	2.65	25.59	27.78	28.06	28.52	46.00	-17.48



Test mode:	Charge + Transmitting	Horizontal
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Condition: 3m HORIZONTAL

Job No. : 06549RG

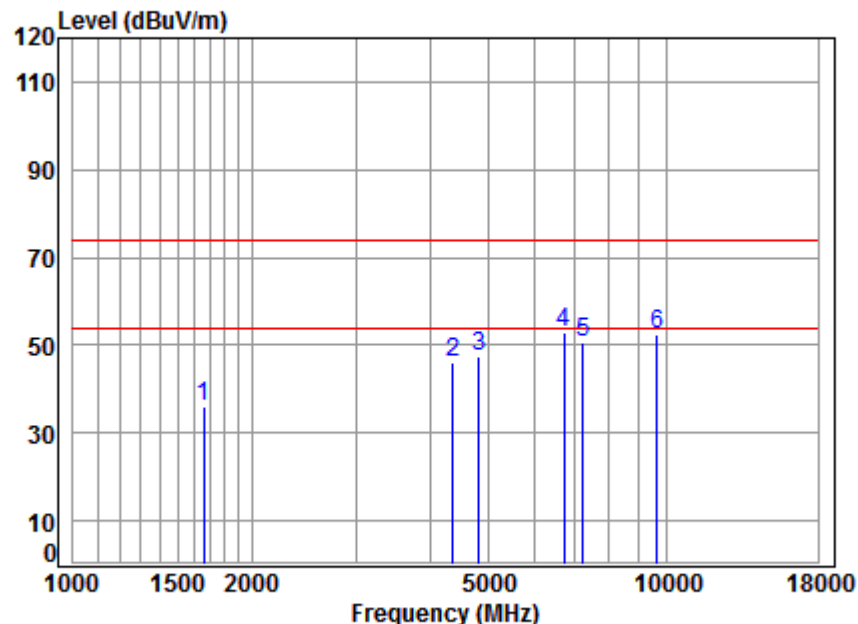
Test mode: d

	Freq	Cable	Ant	Preamp	Read		Limit	Over
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.45	27.18	22.77	40.00	-17.23
2	57.19	0.80	13.46	27.40	27.26	14.12	40.00	-25.88
3	105.27	1.22	13.75	27.32	26.54	14.19	43.50	-29.31
4	258.33	1.71	19.08	26.74	25.78	19.83	46.00	-26.17
5	485.61	2.55	24.31	27.55	26.69	26.00	46.00	-20.00
6 pp	851.04	3.41	29.18	27.33	25.20	30.46	46.00	-15.54



5.9.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	5.28	26.50	41.51	45.90	36.17	74.00	-37.83	peak
2	4367.058	7.41	33.37	42.39	47.84	46.23	74.00	-27.77	peak
3	4824.000	7.91	34.00	42.47	48.21	47.65	74.00	-26.35	peak
4 pp	6717.762	10.91	35.73	41.05	47.16	52.75	74.00	-21.25	peak
5	7236.000	10.07	36.09	40.69	45.10	50.57	74.00	-23.43	peak
6	9648.000	10.77	37.69	37.68	41.86	52.64	74.00	-21.36	peak

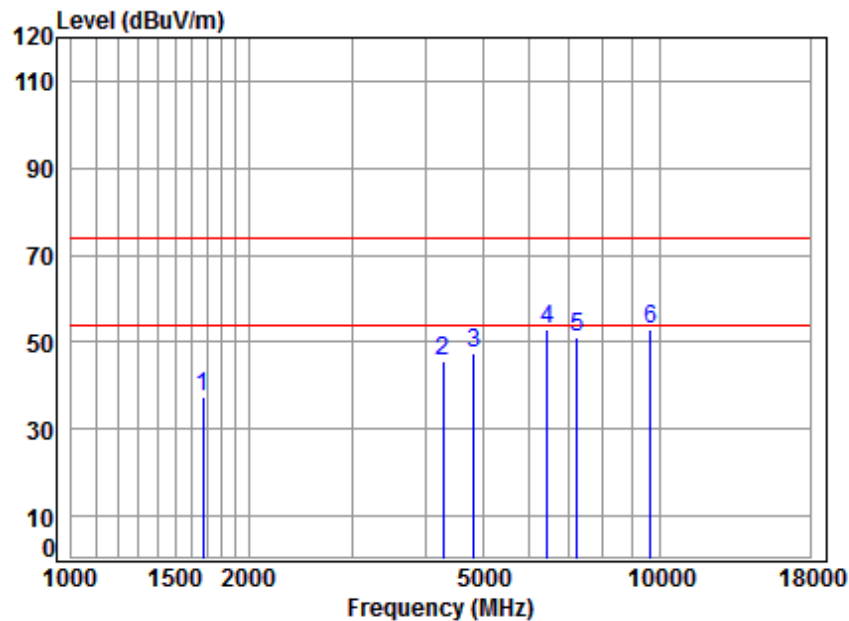


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Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B
: ANT1

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	41.52	46.99	37.29	74.00	-36.71	peak
2	4279.589	7.31	33.22	42.38	47.55	45.70	74.00	-28.30	peak
3	4824.000	7.91	34.00	42.47	47.79	47.23	74.00	-26.77	peak
4	6451.353	11.45	35.55	41.25	47.04	52.79	74.00	-21.21	peak
5	7236.000	10.07	36.09	40.69	45.59	51.06	74.00	-22.94	peak
6 pp	9648.000	10.77	37.69	37.68	42.03	52.81	74.00	-21.19	peak

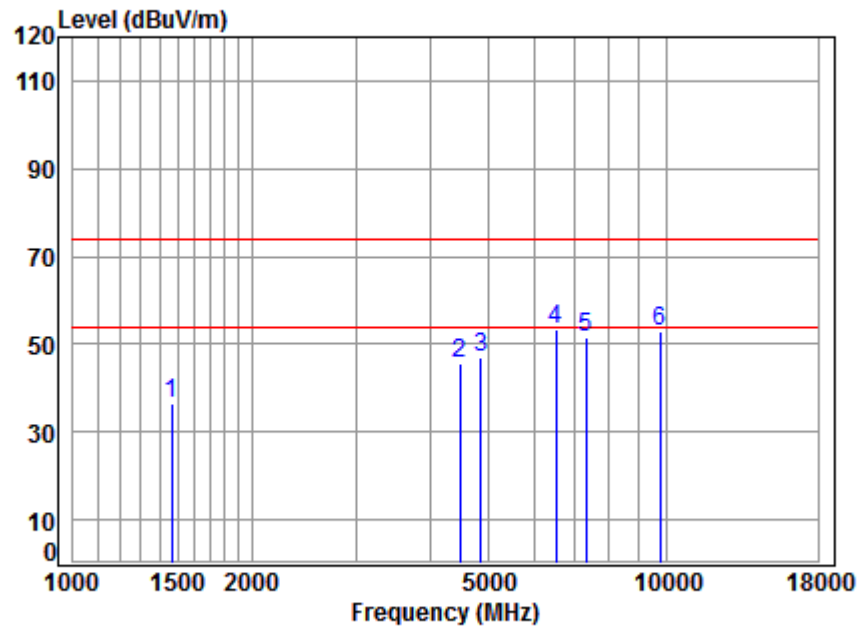


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Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B
: ANT1

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1464.522	5.37	25.67	41.38	46.65	36.31	74.00	-37.69	peak
2	4482.150	7.54	33.57	42.41	47.13	45.83	74.00	-28.17	peak
3	4874.000	7.96	34.05	42.48	47.47	47.00	74.00	-27.00	peak
4 pp	6526.373	11.46	35.62	41.20	47.71	53.59	74.00	-20.41	peak
5	7311.000	10.05	36.15	40.64	45.97	51.53	74.00	-22.47	peak
6	9748.000	10.82	37.75	37.54	41.76	52.79	74.00	-21.21	peak

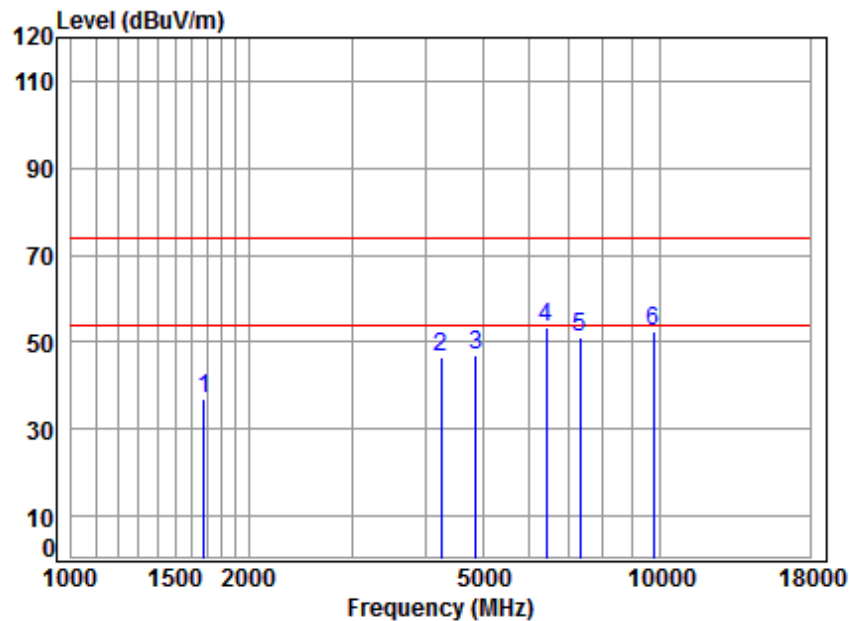


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Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B
: ANT1

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	41.52	46.81	37.12	74.00	-36.88	peak
2	4242.641	7.27	33.15	42.37	48.27	46.32	74.00	-27.68	peak
3	4874.000	7.96	34.05	42.48	47.61	47.14	74.00	-26.86	peak
4	pp 6414.167	11.38	35.52	41.28	47.83	53.45	74.00	-20.55	peak
5	7311.000	10.05	36.15	40.64	45.33	50.89	74.00	-23.11	peak
6	9748.000	10.82	37.75	37.54	41.34	52.37	74.00	-21.63	peak

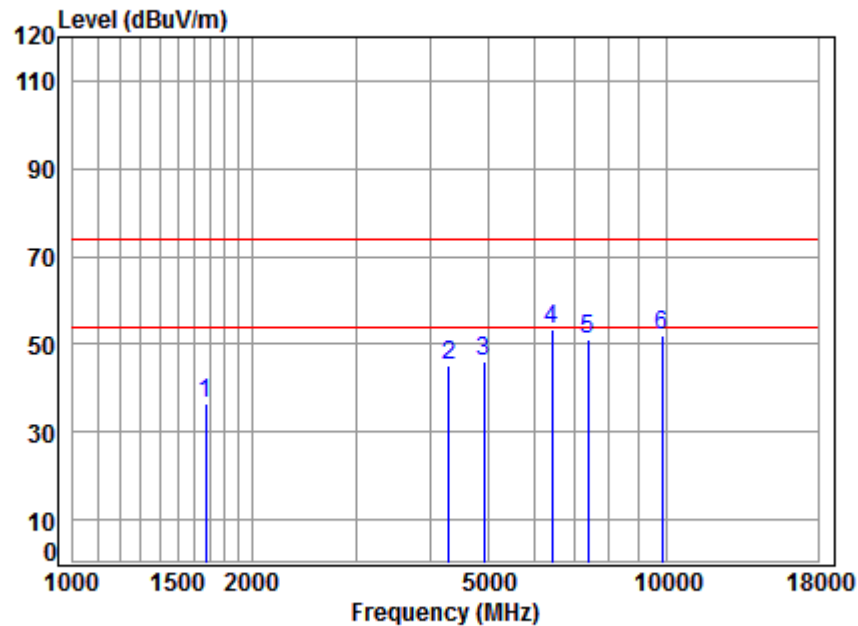


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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	41.52	45.99	36.29	74.00	-37.71	peak
2	4304.400	7.34	33.26	42.38	47.02	45.24	74.00	-28.76	peak
3	4924.000	8.01	34.11	42.49	46.64	46.27	74.00	-27.73	peak
4 pp	6414.167	11.38	35.52	41.28	47.75	53.37	74.00	-20.63	peak
5	7386.000	10.03	36.21	40.59	45.32	50.97	74.00	-23.03	peak
6	9848.000	10.87	37.81	37.41	40.93	52.20	74.00	-21.80	peak

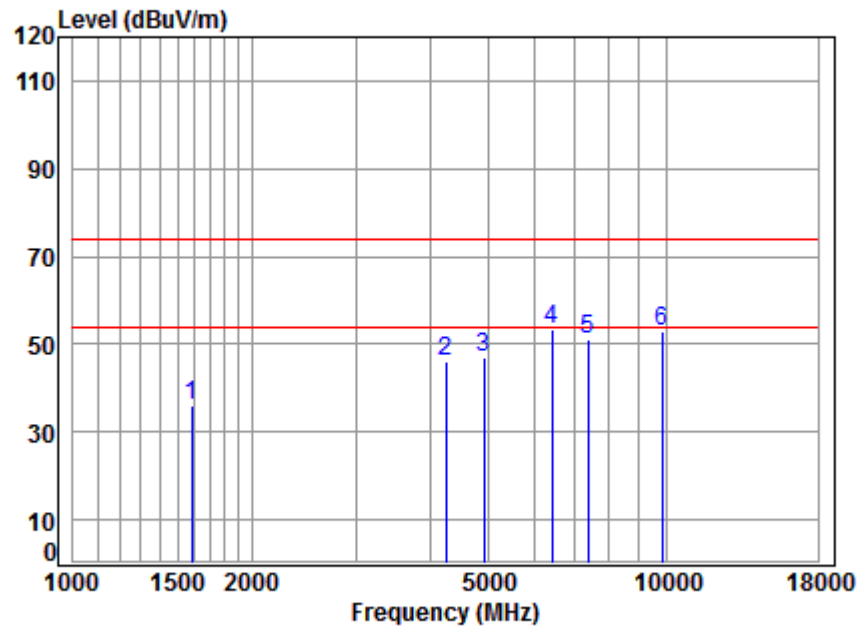


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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B
: ANT1

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	5.37	26.20	41.46	46.05	36.16	74.00	-37.84	peak
2	4254.921	7.28	33.17	42.37	47.95	46.03	74.00	-27.97	peak
3	4924.000	8.01	34.11	42.49	47.52	47.15	74.00	-26.85	peak
4 pp	6414.167	11.38	35.52	41.28	47.75	53.37	74.00	-20.63	peak
5	7386.000	10.03	36.21	40.59	45.50	51.15	74.00	-22.85	peak
6	9848.000	10.87	37.81	37.41	41.53	52.80	74.00	-21.20	peak

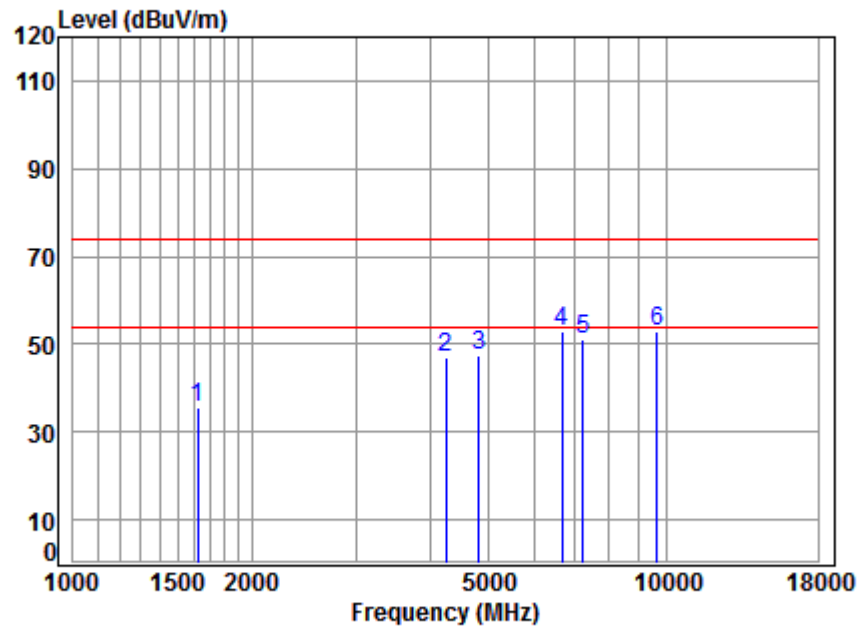


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Test mode:	802.11g_CDD	Test channel:	Lowest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	5.32	26.36	41.49	45.57	35.76	74.00	-38.24	peak
2	4242.641	7.27	33.15	42.37	48.83	46.88	74.00	-27.12	peak
3	4824.000	7.91	34.00	42.47	48.15	47.59	74.00	-26.41	peak
4	6679.040	11.02	35.71	41.08	47.05	52.70	74.00	-21.30	peak
5	7236.000	10.07	36.09	40.69	45.77	51.24	74.00	-22.76	peak
6 pp	9648.000	10.77	37.69	37.68	42.01	52.79	74.00	-21.21	peak

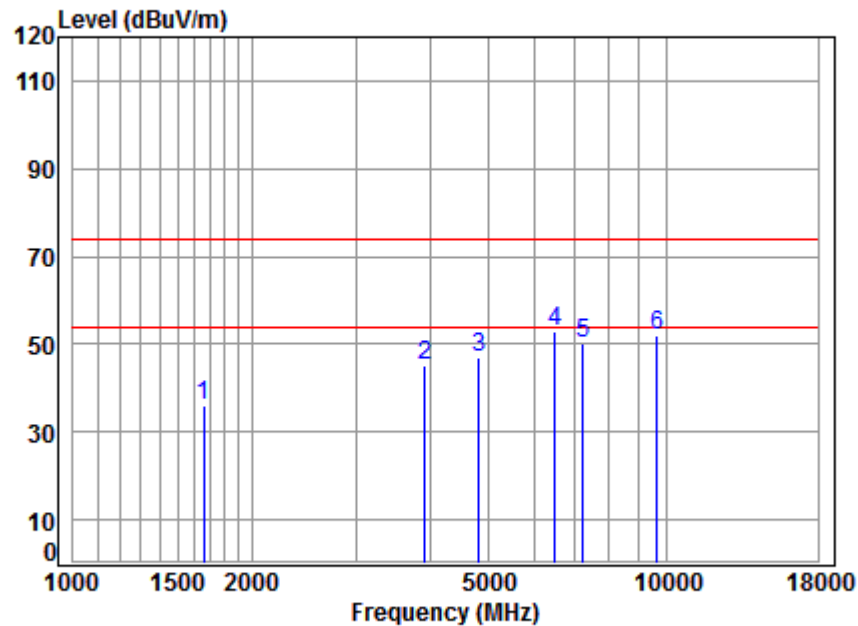


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Test mode:	802.11g_CDD	Test channel:	Lowest	Remark:	Peak	Horizontal
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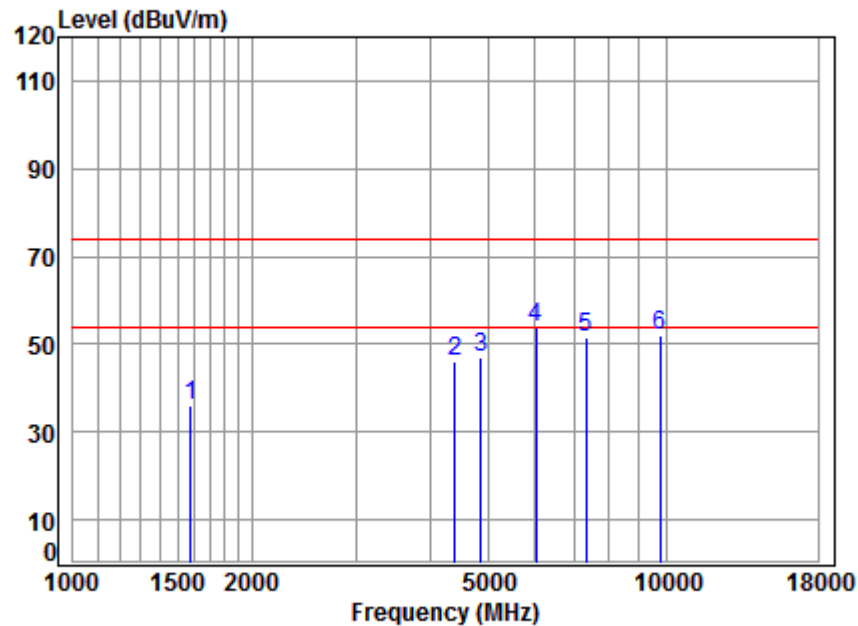


Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	41.51	45.70	35.98	74.00	-38.02	peak
2	3924.135	6.91	32.56	42.31	48.23	45.39	74.00	-28.61	peak
3	4824.000	7.91	34.00	42.47	47.75	47.19	74.00	-26.81	peak
4 pp	6488.754	11.52	35.59	41.22	47.18	53.07	74.00	-20.93	peak
5	7236.000	10.07	36.09	40.69	44.71	50.18	74.00	-23.82	peak
6	9648.000	10.77	37.69	37.68	41.38	52.16	74.00	-21.84	peak



Test mode:	802.11g_CDD	Test channel:	Middle	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	5.38	26.16	41.46	46.09	36.17	74.00	-37.83	peak
2	4405.090	7.46	33.44	42.40	47.60	46.10	74.00	-27.90	peak
3	4874.000	7.96	34.05	42.48	47.66	47.19	74.00	-26.81	peak
4 pp	6036.421	10.64	35.14	41.58	49.49	53.69	74.00	-20.31	peak
5	7311.000	10.05	36.15	40.64	46.11	51.67	74.00	-22.33	peak
6	9748.000	10.82	37.75	37.54	40.87	51.90	74.00	-22.10	peak

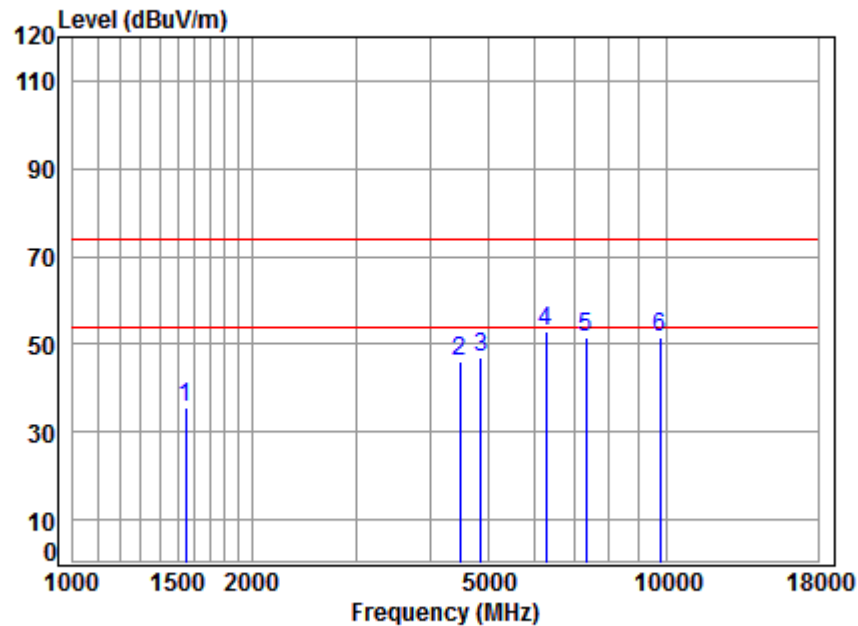


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Test mode:	802.11g_CDD	Test channel:	Middle	Remark:	Peak	Horizontal
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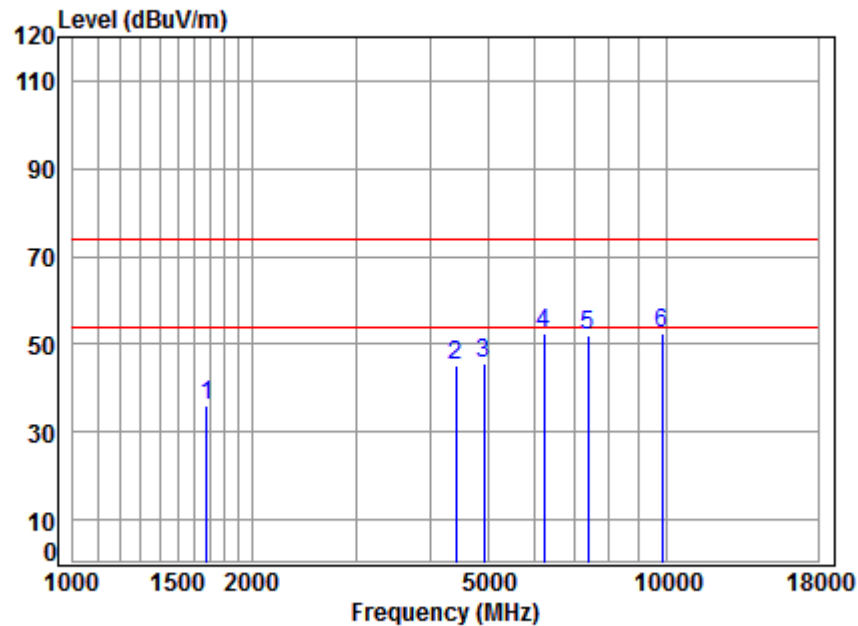


Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	5.42	26.02	41.44	45.79	35.79	74.00	-38.21	peak
2	4482.150	7.54	33.57	42.41	47.27	45.97	74.00	-28.03	peak
3	4874.000	7.96	34.05	42.48	47.67	47.20	74.00	-26.80	peak
4 pp	6267.553	11.10	35.37	41.39	47.67	52.75	74.00	-21.25	peak
5	7311.000	10.05	36.15	40.64	45.85	51.41	74.00	-22.59	peak
6	9748.000	10.82	37.75	37.54	40.47	51.50	74.00	-22.50	peak



Test mode:	802.11g_CDD	Test channel:	Highest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	41.52	45.66	35.99	74.00	-38.01	peak
2	4417.841	7.47	33.46	42.40	46.45	44.98	74.00	-29.02	peak
3	4924.000	8.01	34.11	42.49	46.20	45.83	74.00	-28.17	peak
4 pp	6213.441	10.99	35.32	41.44	47.65	52.52	74.00	-21.48	peak
5	7386.000	10.03	36.21	40.59	46.43	52.08	74.00	-21.92	peak
6	9848.000	10.87	37.81	37.41	41.22	52.49	74.00	-21.51	peak

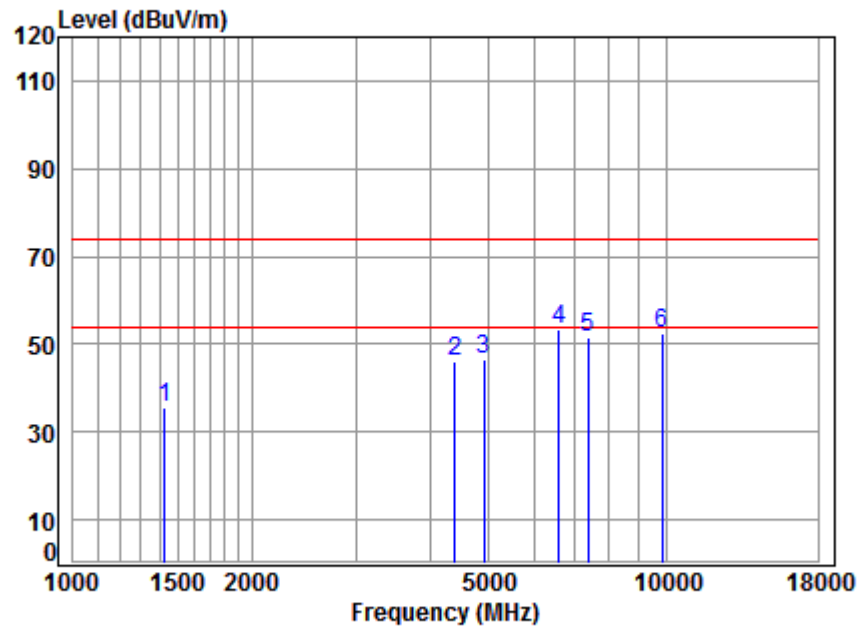


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Test mode:	802.11g_CDD	Test channel:	Highest	Remark:	Peak	Horizontal
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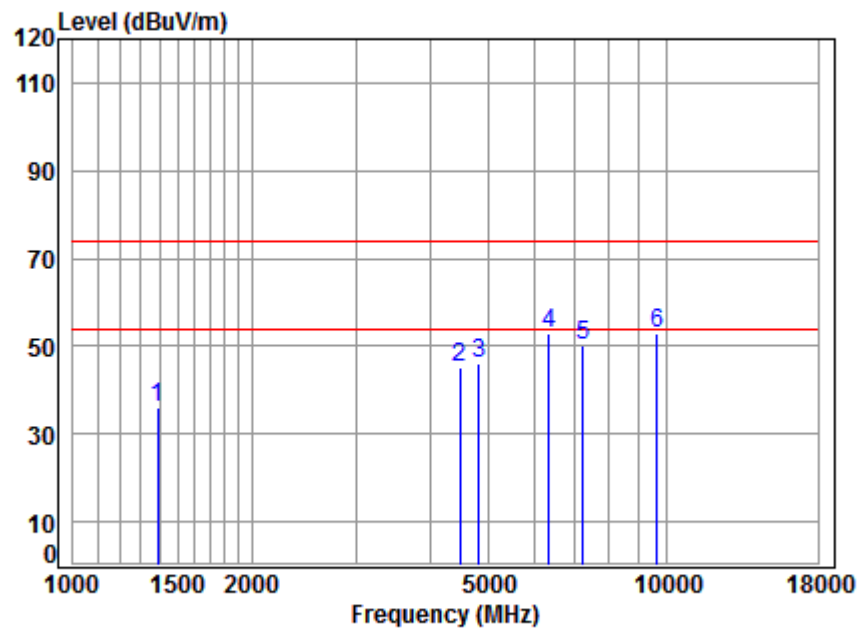


Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11G
: CDD

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1426.916	5.24	25.53	41.36	46.04	35.45	74.00	-38.55	peak
2	4405.090	7.46	33.44	42.40	47.42	45.92	74.00	-28.08	peak
3	4924.000	8.01	34.11	42.49	46.95	46.58	74.00	-27.42	peak
4 pp	6583.209	11.30	35.65	41.15	47.66	53.46	74.00	-20.54	peak
5	7386.000	10.03	36.21	40.59	46.06	51.71	74.00	-22.29	peak
6	9848.000	10.87	37.81	37.41	41.12	52.39	74.00	-21.61	peak



Test mode:	802.11n(HT20)_MIMO	Test channel:	Lowest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1390.276	5.12	25.39	41.33	46.88	36.06	74.00	-37.94	peak
2	4495.125	7.55	33.59	42.42	46.28	45.00	74.00	-29.00	peak
3	4824.000	7.91	34.00	42.47	46.83	46.27	74.00	-27.73	peak
4	6340.436	11.24	35.44	41.34	47.69	53.03	74.00	-20.97	peak
5	7236.000	10.07	36.09	40.69	44.87	50.34	74.00	-23.66	peak
6 pp	9648.000	10.77	37.69	37.68	42.27	53.05	74.00	-20.95	peak

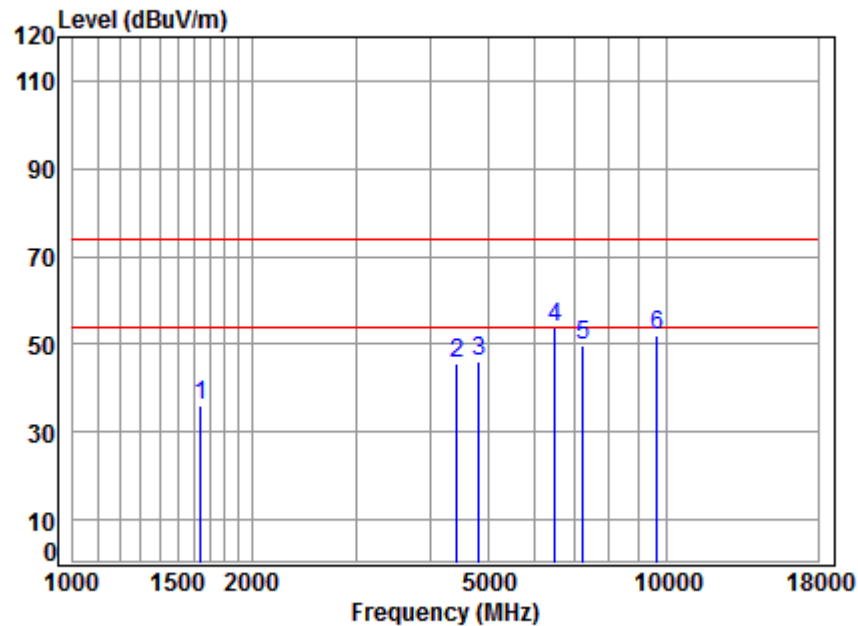


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Test mode:	802.11n(HT20)_MIMO	Test channel:	Lowest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2412 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	5.30	26.42	41.49	45.59	35.82	74.00	-38.18	peak
2	4430.628	7.48	33.48	42.41	47.22	45.77	74.00	-28.23	peak
3	4824.000	7.91	34.00	42.47	46.46	45.90	74.00	-28.10	peak
4 pp	6488.754	11.52	35.59	41.22	47.73	53.62	74.00	-20.38	peak
5	7236.000	10.07	36.09	40.69	44.47	49.94	74.00	-24.06	peak
6	9648.000	10.77	37.69	37.68	41.32	52.10	74.00	-21.90	peak

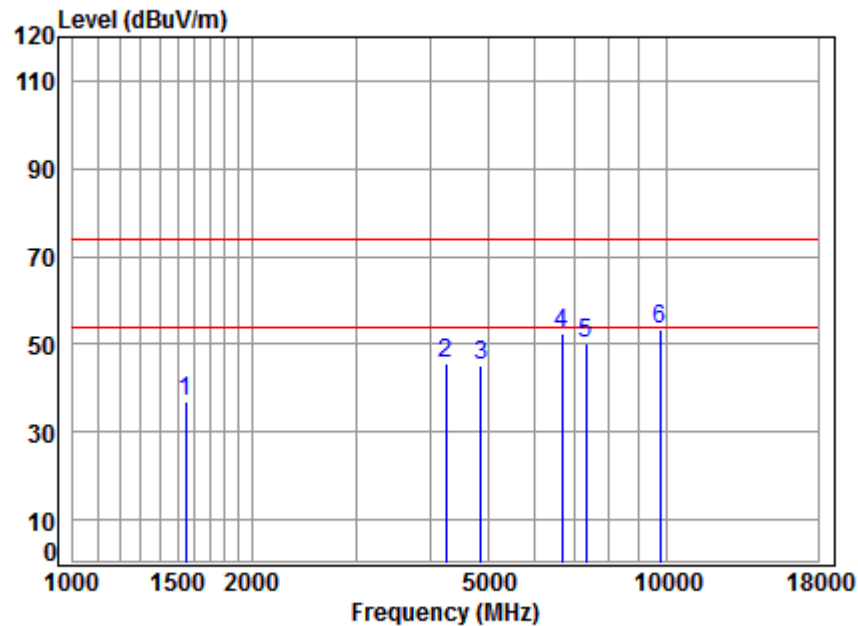


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Test mode:	802.11n(HT20)_MIMO	Test channel:	Middle	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	5.42	26.02	41.44	47.00	37.00	74.00	-37.00	peak
2	4242.641	7.27	33.15	42.37	47.50	45.55	74.00	-28.45	peak
3	4874.000	7.96	34.05	42.48	45.53	45.06	74.00	-28.94	peak
4	6679.040	11.02	35.71	41.08	46.93	52.58	74.00	-21.42	peak
5	7311.000	10.05	36.15	40.64	44.80	50.36	74.00	-23.64	peak
6 pp	9748.000	10.82	37.75	37.54	42.43	53.46	74.00	-20.54	peak

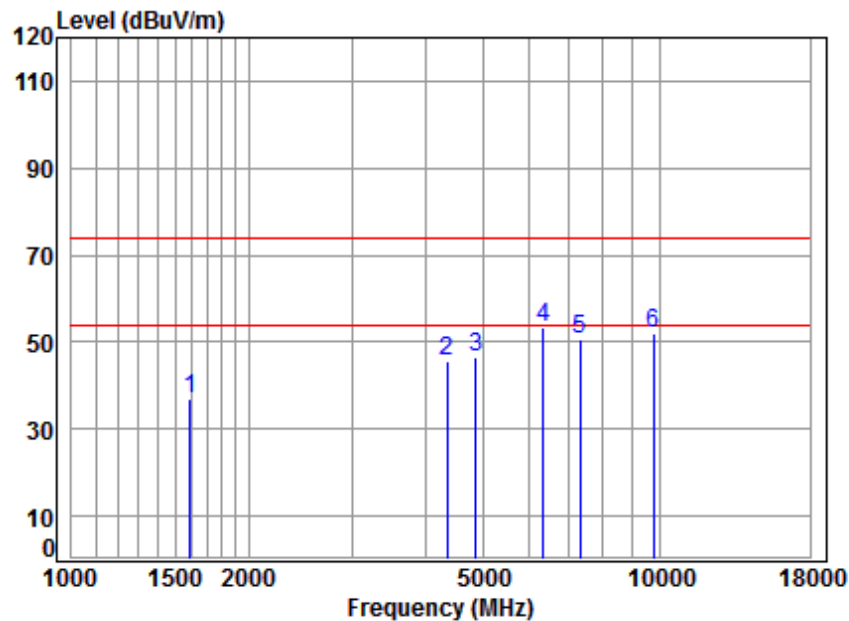


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Test mode:	802.11n(HT20)_MIMO	Test channel:	Middle	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2437 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	5.36	26.22	41.47	47.00	37.11	74.00	-36.89	peak
2	4354.454	7.40	33.35	42.39	47.29	45.65	74.00	-28.35	peak
3	4874.000	7.96	34.05	42.48	46.85	46.38	74.00	-27.62	peak
4 pp	6340.436	11.24	35.44	41.34	47.83	53.17	74.00	-20.83	peak
5	7311.000	10.05	36.15	40.64	45.13	50.69	74.00	-23.31	peak
6	9748.000	10.82	37.75	37.54	40.81	51.84	74.00	-22.16	peak

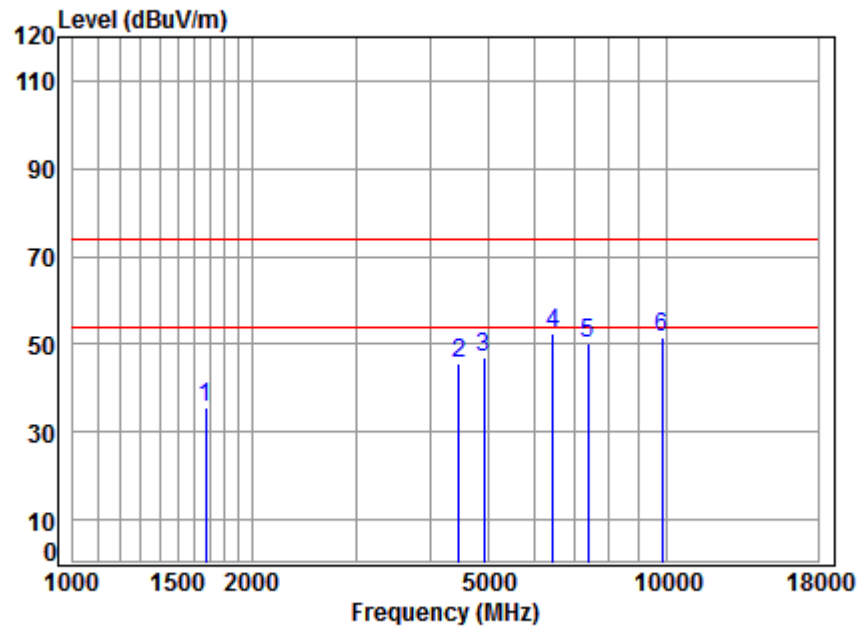


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Test mode:	802.11n(HT20)_MIMO	Test channel:	Highest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	41.52	45.30	35.60	74.00	-38.40	peak
2	4469.214	7.53	33.55	42.41	46.89	45.56	74.00	-28.44	peak
3	4924.000	8.01	34.11	42.49	47.18	46.81	74.00	-27.19	peak
4 pp	6451.353	11.45	35.55	41.25	46.80	52.55	74.00	-21.45	peak
5	7386.000	10.03	36.21	40.59	44.73	50.38	74.00	-23.62	peak
6	9848.000	10.87	37.81	37.41	40.51	51.78	74.00	-22.22	peak

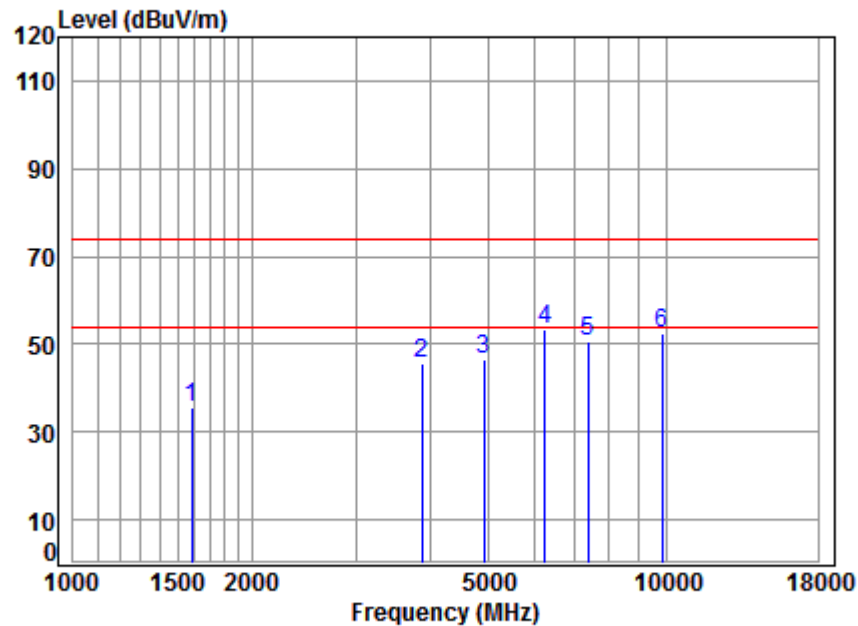


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Test mode:	802.11n(HT20)_MIMO	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2462 TX RSE
Note : 2.4G WIFI 11N 20
: MIMO

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	5.37	26.18	41.46	45.43	35.52	74.00	-38.48	peak
2	3867.831	6.85	32.45	42.30	48.81	45.81	74.00	-28.19	peak
3	4924.000	8.01	34.11	42.49	46.83	46.46	74.00	-27.54	peak
4 pp	6249.464	11.06	35.35	41.41	48.52	53.52	74.00	-20.48	peak
5	7386.000	10.03	36.21	40.59	44.99	50.64	74.00	-23.36	peak
6	9848.000	10.87	37.81	37.41	41.40	52.67	74.00	-21.33	peak

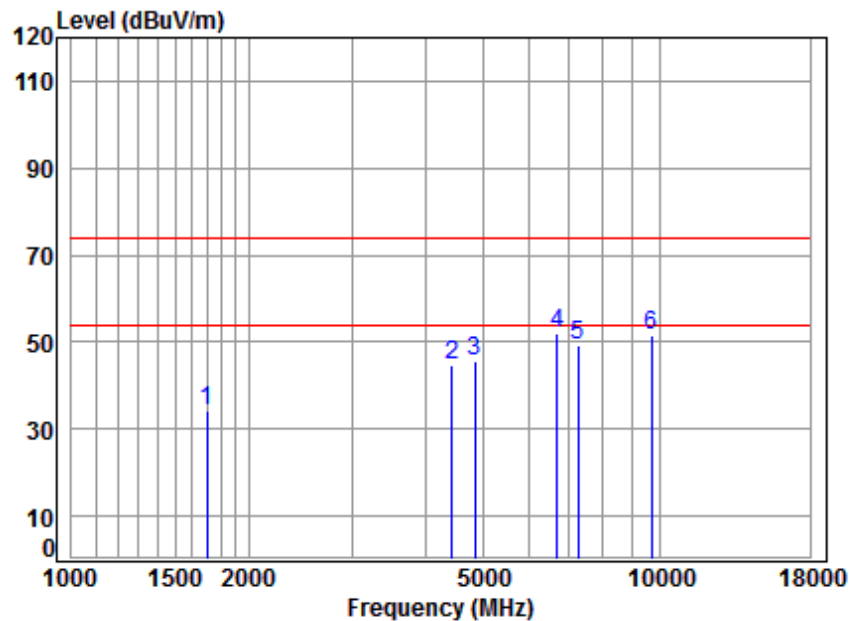


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Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2422 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	41.53	43.72	34.10	74.00	-39.90	peak
2	4430.628	7.48	33.48	42.41	46.25	44.80	74.00	-29.20	peak
3	4844.000	7.93	34.02	42.48	46.24	45.71	74.00	-28.29	peak
4 pp	6698.373	10.97	35.72	41.07	46.33	51.95	74.00	-22.05	peak
5	7266.000	10.06	36.12	40.67	43.62	49.13	74.00	-24.87	peak
6	9688.000	10.79	37.71	37.63	40.54	51.41	74.00	-22.59	peak

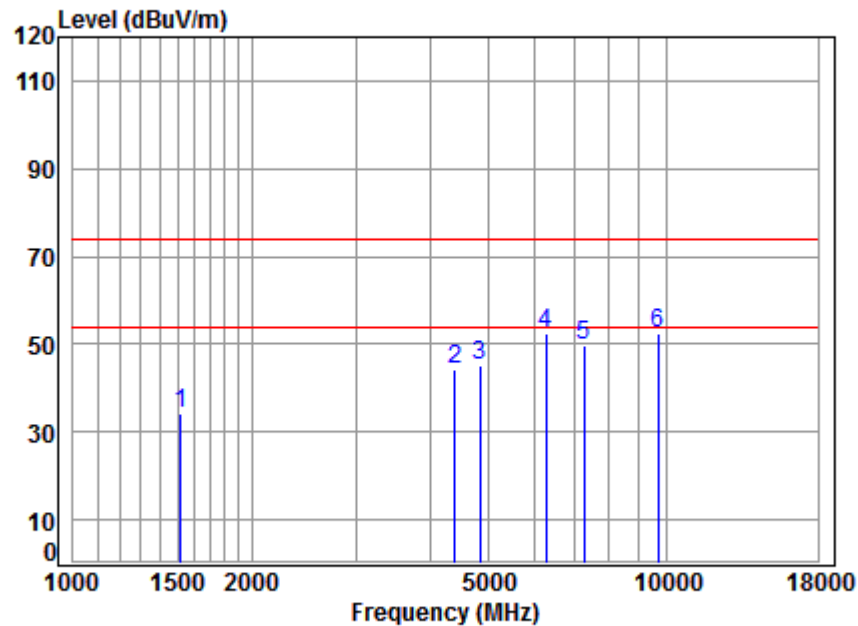


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Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2422 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5.45	25.89	41.42	44.25	34.17	74.00	-39.83	peak
2	4405.090	7.46	33.44	42.40	45.95	44.45	74.00	-29.55	peak
3	4844.000	7.93	34.02	42.48	45.81	45.28	74.00	-28.72	peak
4 pp	6267.553	11.10	35.37	41.39	47.48	52.56	74.00	-21.44	peak
5	7266.000	10.06	36.12	40.67	44.28	49.79	74.00	-24.21	peak
6	9688.000	10.79	37.71	37.63	41.38	52.25	74.00	-21.75	peak

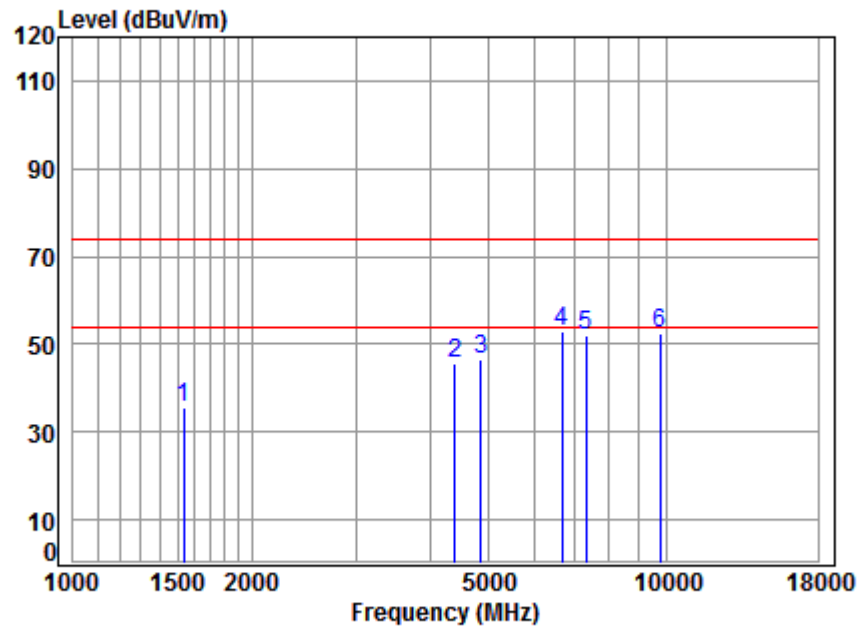


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Test mode:	802.11n(HT40)	Test channel:	Middle	Remark:	Peak	Vertical
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Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2437 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	5.43	25.98	41.43	45.65	35.63	74.00	-38.37	peak
2	4405.090	7.46	33.44	42.40	47.34	45.84	74.00	-28.16	peak
3	4874.000	7.96	34.05	42.48	47.16	46.69	74.00	-27.31	peak
4 pp	6679.040	11.02	35.71	41.08	47.25	52.90	74.00	-21.10	peak
5	7311.000	10.05	36.15	40.64	46.52	52.08	74.00	-21.92	peak
6	9748.000	10.82	37.75	37.54	41.58	52.61	74.00	-21.39	peak

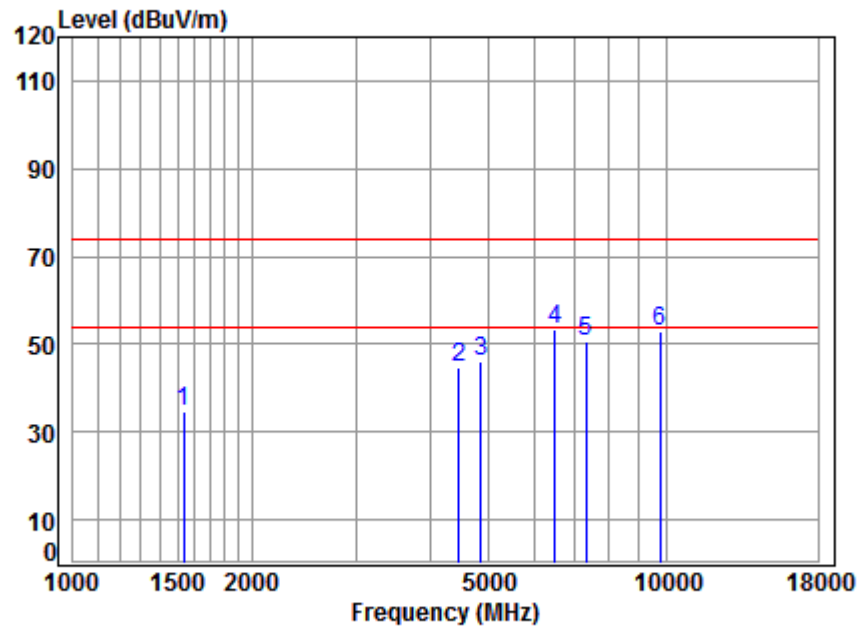


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Test mode:	802.11n(HT40)	Test channel:	Middle	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2437 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	5.43	25.98	41.43	44.64	34.62	74.00	-39.38	peak
2	4469.214	7.53	33.55	42.41	46.08	44.75	74.00	-29.25	peak
3	4874.000	7.96	34.05	42.48	46.52	46.05	74.00	-27.95	peak
4 pp	6488.754	11.52	35.59	41.22	47.62	53.51	74.00	-20.49	peak
5	7311.000	10.05	36.15	40.64	45.16	50.72	74.00	-23.28	peak
6	9748.000	10.82	37.75	37.54	41.93	52.96	74.00	-21.04	peak

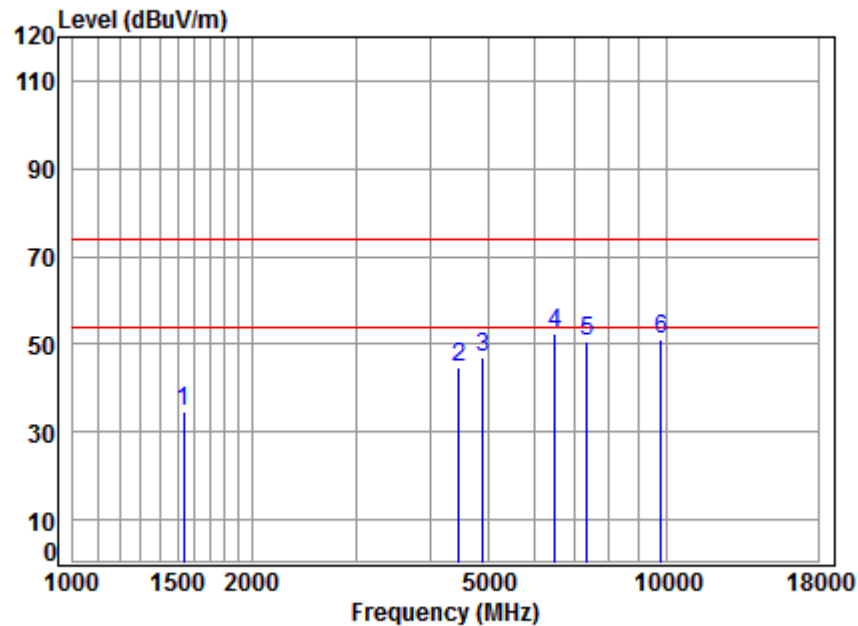


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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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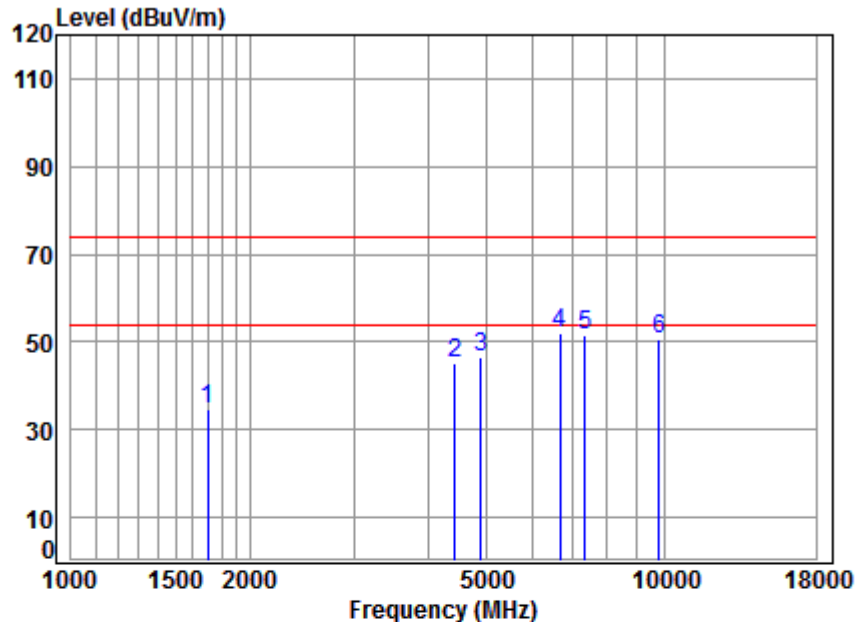


Site : chamber
Condition: 3m VERTICAL
Job No : 06549RG
Mode : 2452 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	5.43	25.98	41.43	44.64	34.62	74.00	-39.38	peak
2	4469.214	7.53	33.55	42.41	46.08	44.75	74.00	-29.25	peak
3	4904.000	7.99	34.09	42.48	47.29	46.89	74.00	-27.11	peak
4 pp	6488.754	11.52	35.59	41.22	46.62	52.51	74.00	-21.49	peak
5	7356.000	10.04	36.19	40.61	45.10	50.72	74.00	-23.28	peak
6	9808.000	10.85	37.79	37.46	39.85	51.03	74.00	-22.97	peak



Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Site : chamber
Condition: 3m HORIZONTAL
Job No : 06549RG
Mode : 2452 TX SE
Note : 2.4G WiFi 11N40
: ANT1

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	41.53	44.31	34.69	74.00	-39.31	peak
2	4430.628	7.48	33.48	42.41	46.61	45.16	74.00	-28.84	peak
3	4904.000	7.99	34.09	42.48	46.93	46.53	74.00	-27.47	peak
4 pp	6659.763	11.08	35.70	41.10	46.55	52.23	74.00	-21.77	peak
5	7356.000	10.04	36.19	40.61	45.99	51.61	74.00	-22.39	peak
6	9808.000	10.85	37.79	37.46	39.46	50.64	74.00	-23.36	peak



Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. So only the worst case data is recorded in the report.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All Modes have been tested, but only the worst case data displayed in this report.