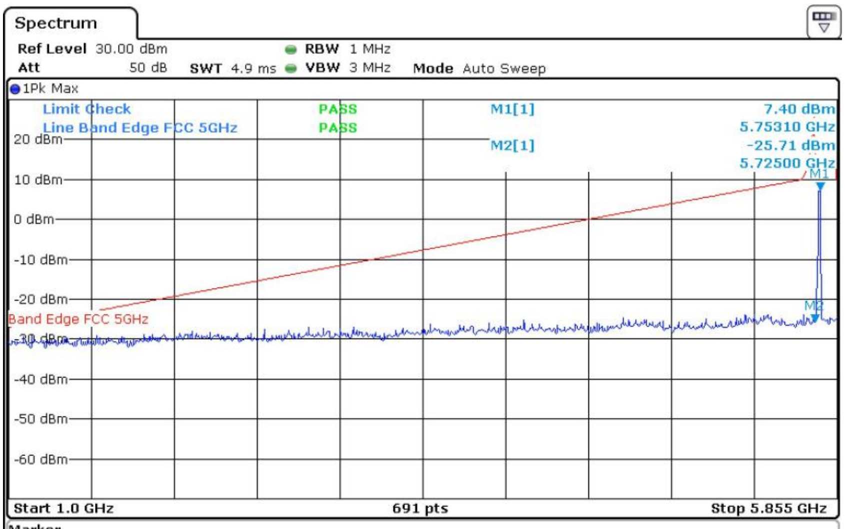
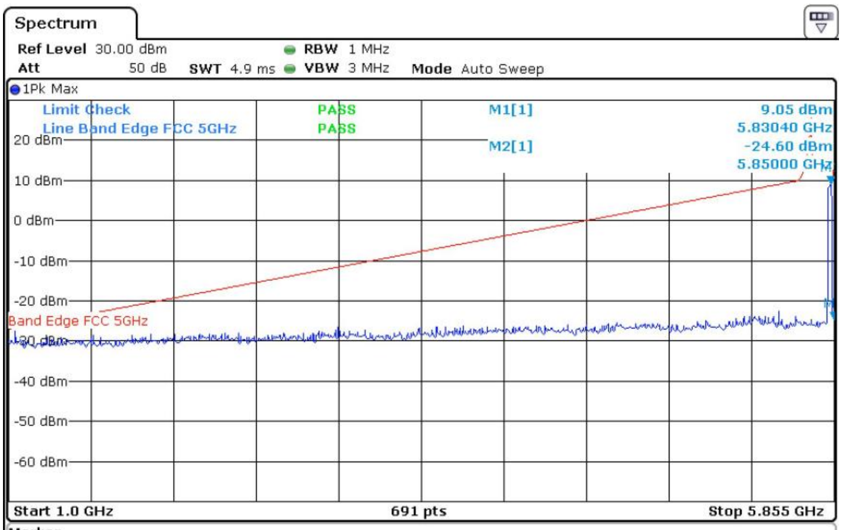
802.11ac(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



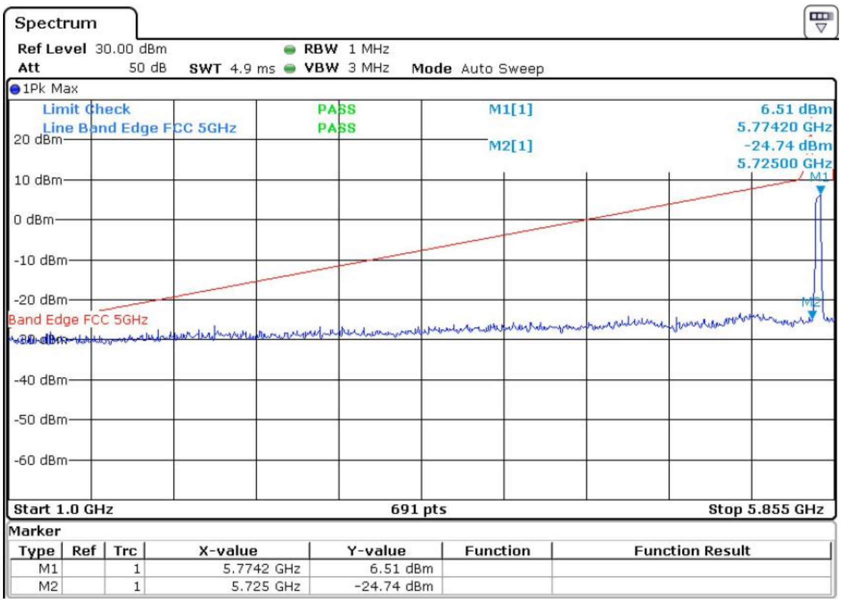
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7531 GHz	7.40 dBm		
M2		1	5.725 GHz	-25.71 dBm		

802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz

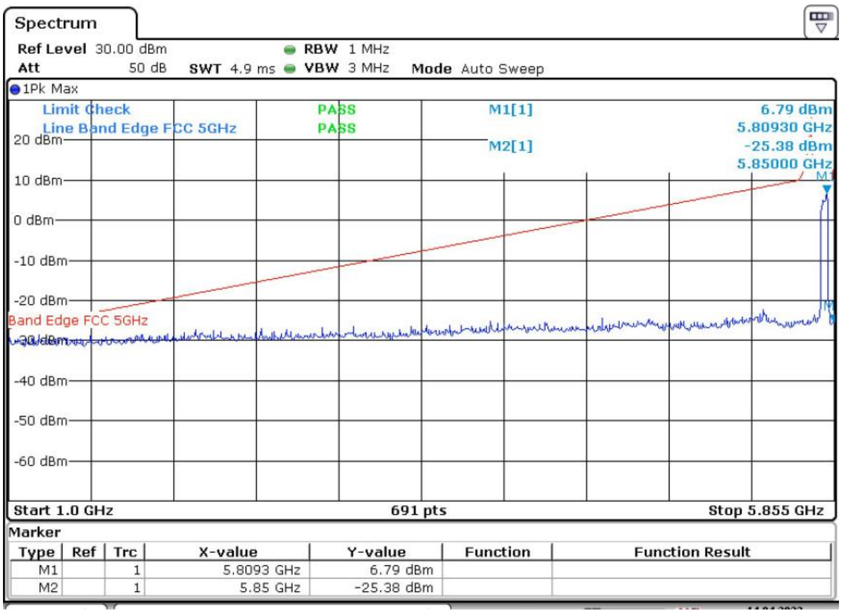


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.8304 GHz	9.05 dBm		
M2		1	5.85 GHz	-24.60 dBm		

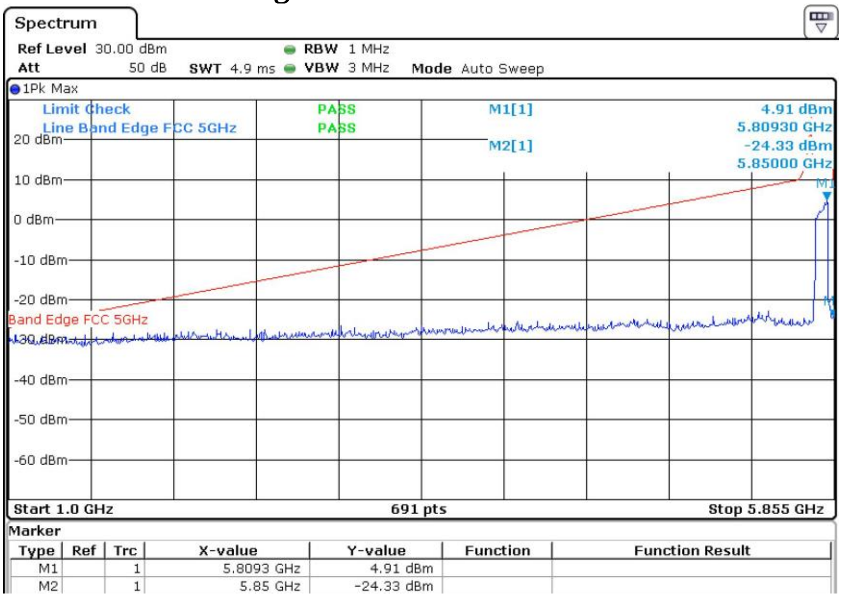
802.11ac(40M) (5.725GHz-5.85GHz)
The Lowest Channel 151: 5755MHz



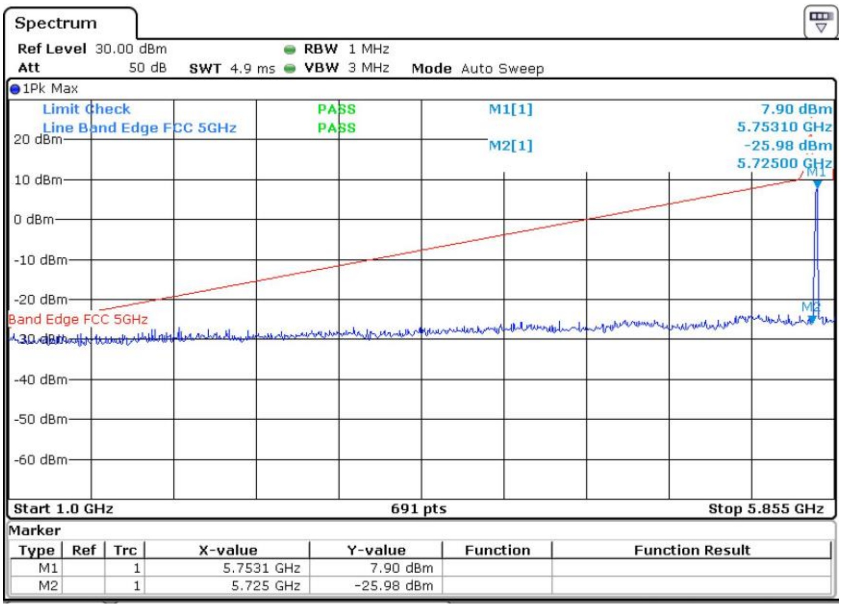
802.11ac(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz



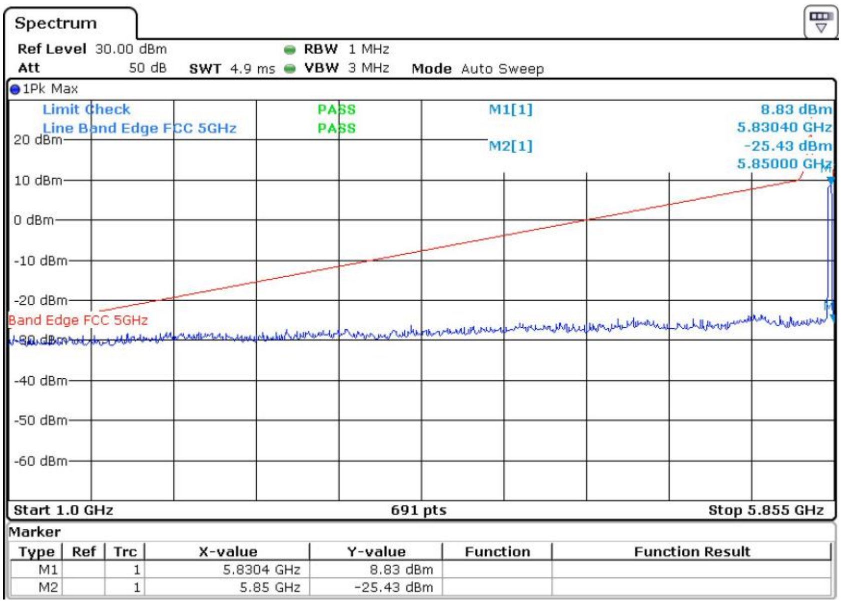
802.11ac(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



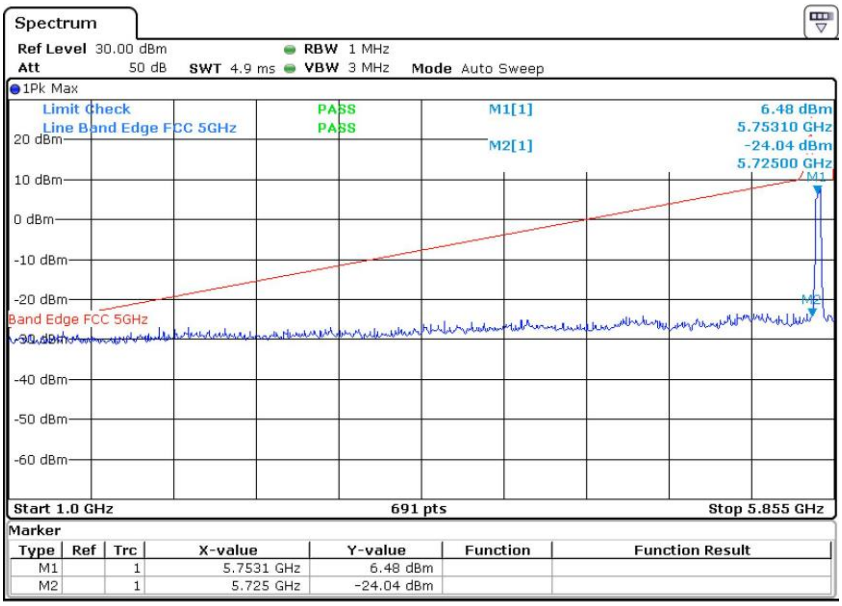
802.11ax(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



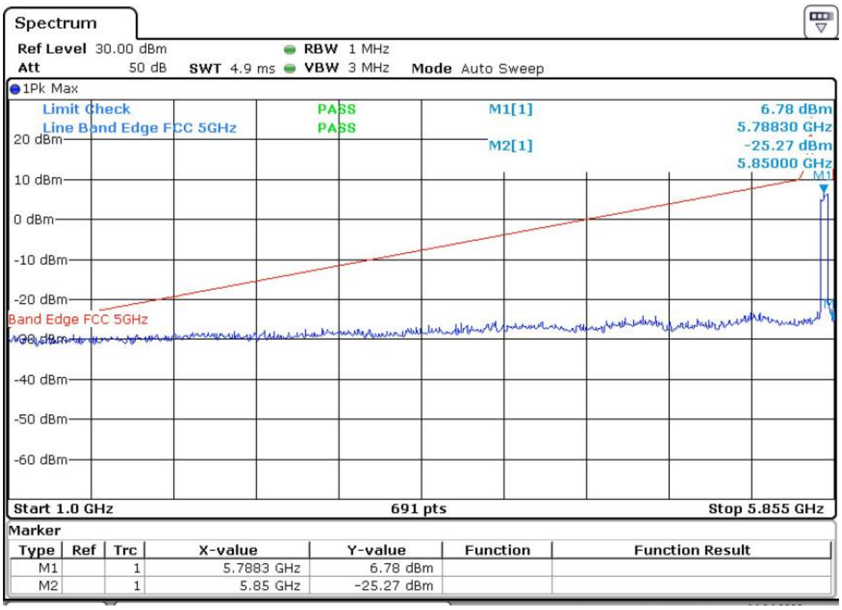
802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165:   5825MHz



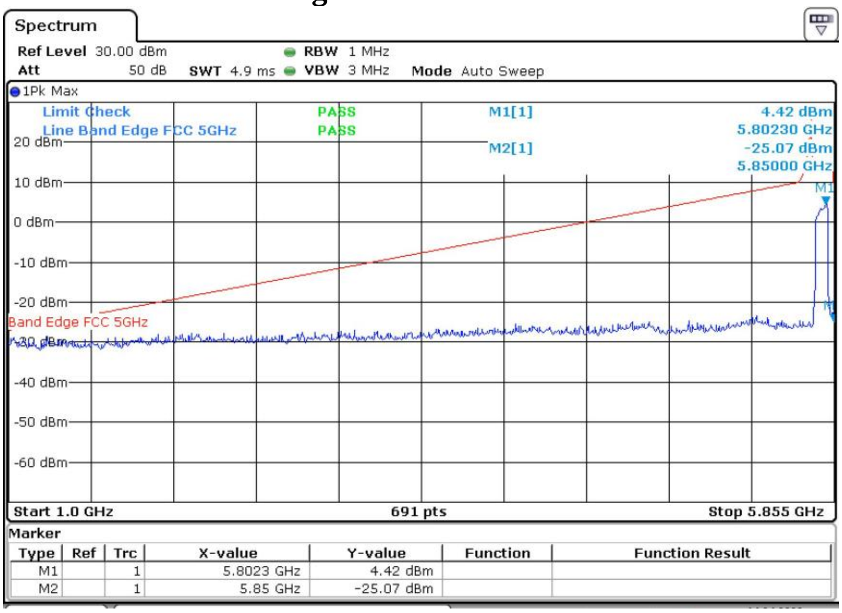
802.11ax(40M) (5.725GHz-5.85GHz)
The Lowest Channel 151:   5755MHz



802.11ax(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz

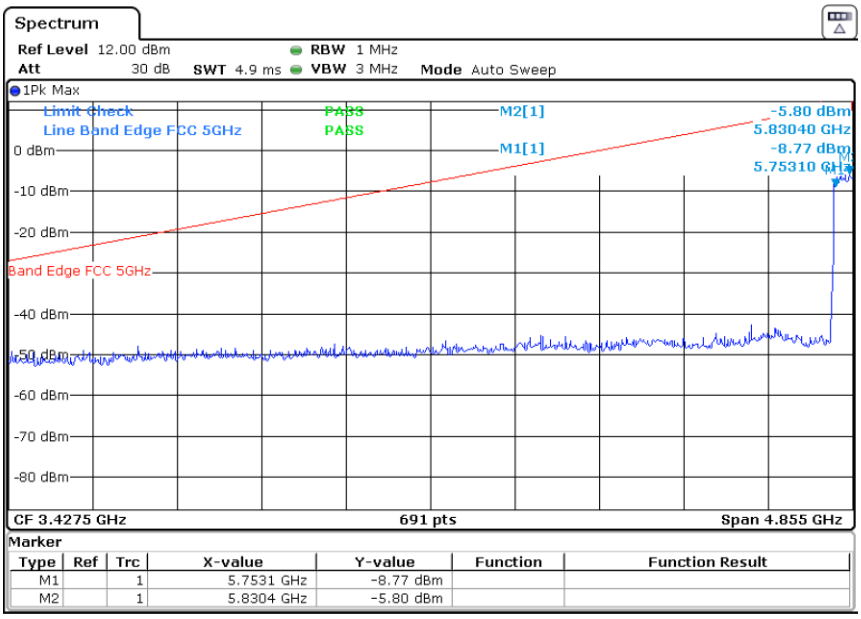


802.11ax(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



802.11ax(160M) (5.725GHz-5.85GHz)

The High Channel 163: 5815MHz



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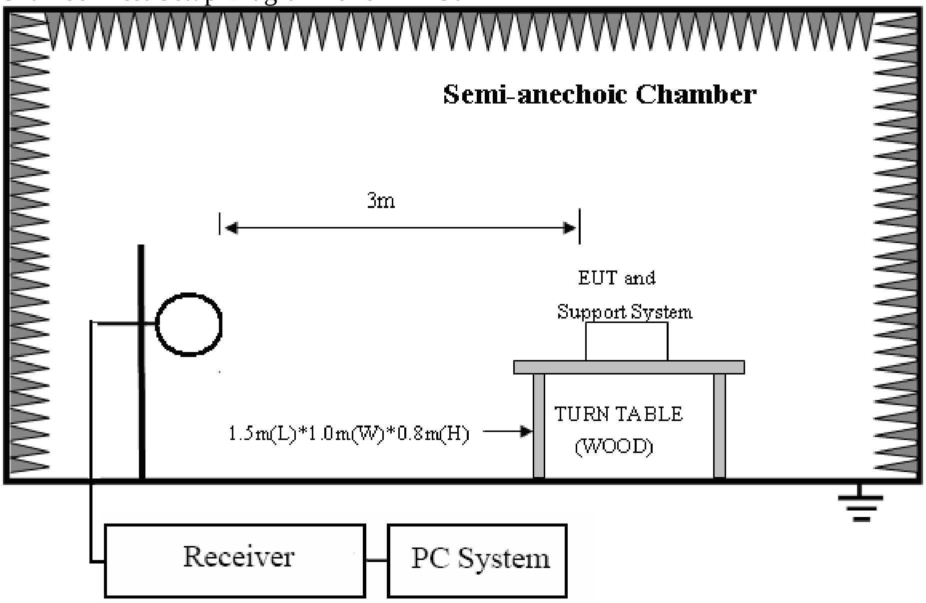
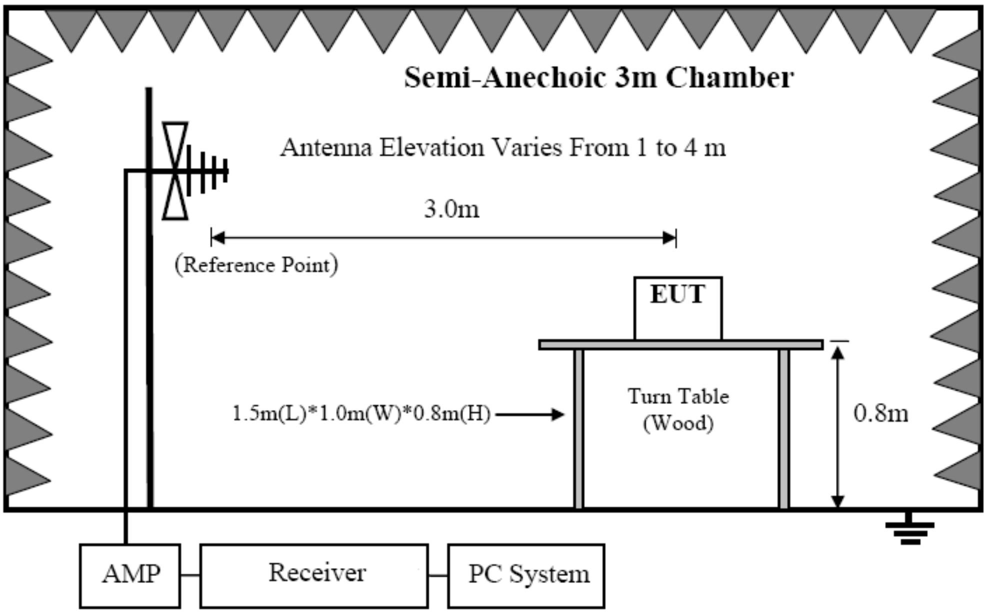
8. RADIATED EMISSION MEASUREMENT

8.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



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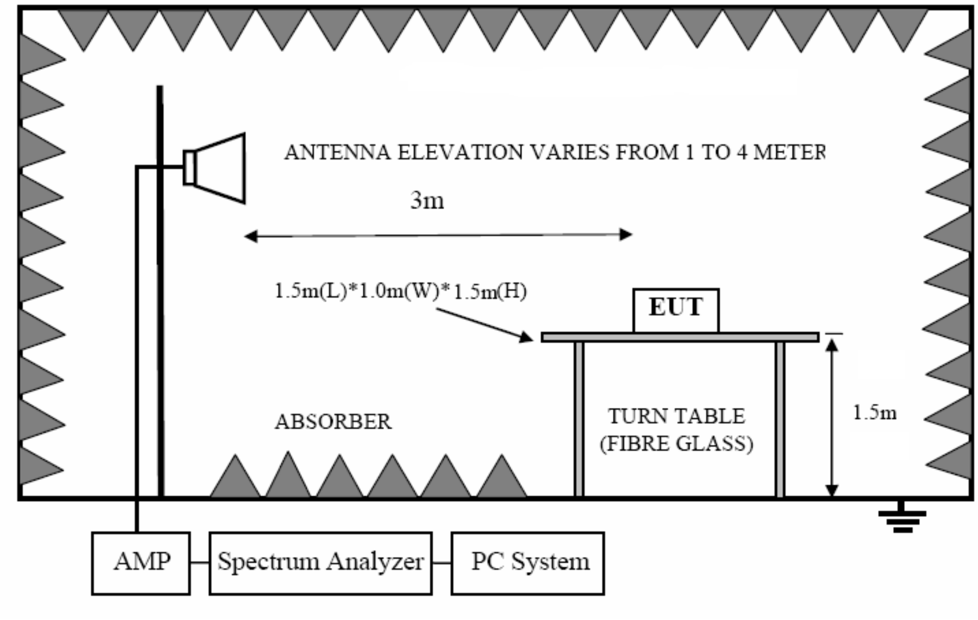
In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

9.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

9.3.2. FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$Limit_{3m}$(dBuV/m)= $Limit_{30m}$(dBuV/m) + 40Log(30m/3m)

9.3.3. Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 30dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Setup EUT and assistant system according clause 2.4 and 7.2

(3) Test antenna was located 3m(except 18GHz-40GHz was 1m) from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Bilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it’s fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) new battery is used during testing

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

(5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.

(6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

（8）For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure). Peak detector is used for Peak and AV measurement both.

According to KDB 789033 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

8.4. Test result(Below 30MHz)

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	**Model Name. :**	ion4x_w2_ext
Temperature:	25℃	**Relative Humidity:**	51%
Distance:	3m	**Test Power:**	110VAC, 60Hz
Polarization:	--	**Test Result:**	Pass
Test Mode:	Keeping TX mode	**Test By:**	Ankur

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Note: N/A

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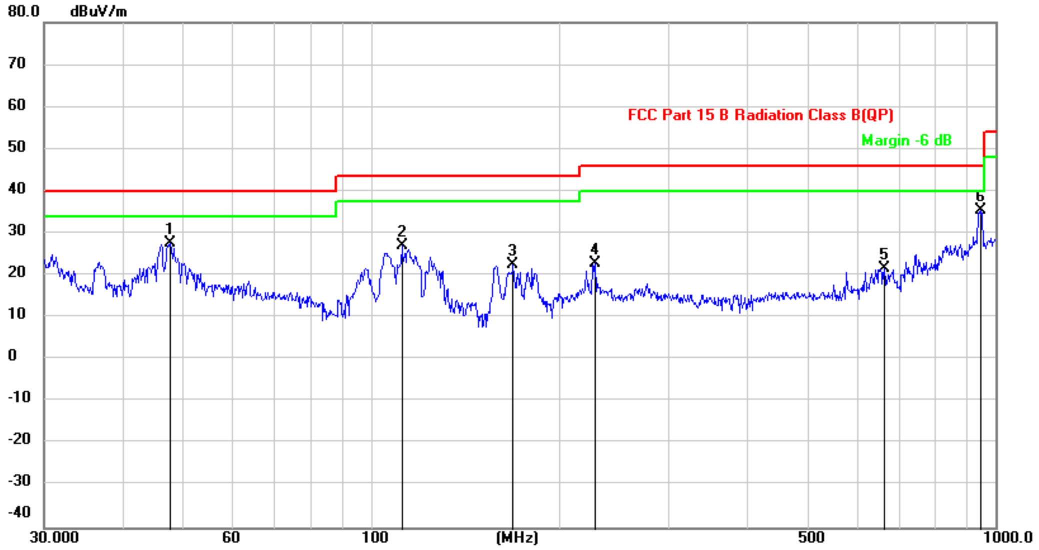
TEST RESULTS (Between 30M – 1000 MHz)

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	**Model Name. :**	ion4x_w2_ext
Temperature:	25℃	**Relative Humidity:**	51%
Distance:	3m	**Test Power:**	110VAC, 60Hz
Polarization:	**Vertical**	**Test Result:**	Pass
Standard:	(RE)FCC PART 15	**Test By:**	Ankur
Test Mode:	Keeping TX mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		47.8260	40.53	-12.73	27.80	40.00	-12.20	QP
2		112.1304	39.15	-12.05	27.10	43.50	-16.40	QP
3		169.0053	34.07	-11.47	22.60	43.50	-20.90	QP
4		228.4904	32.38	-9.52	22.86	46.00	-23.14	QP
5		663.4728	19.08	2.44	21.52	46.00	-24.48	QP
6	*	945.4399	27.83	7.66	35.49	46.00	-10.51	QP

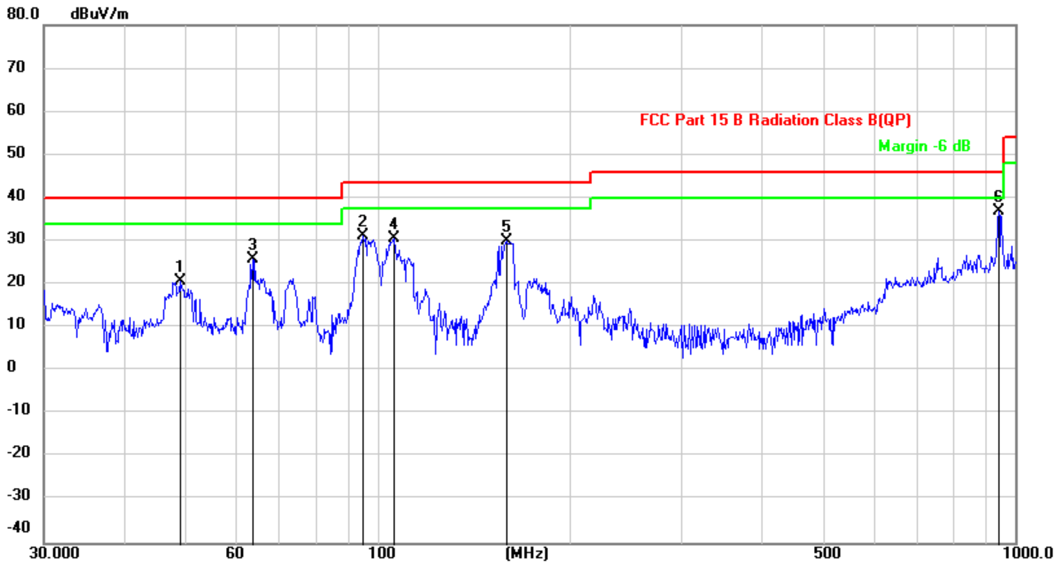
The test result is calculated as the following:

(1) Result = Reading + Correct Factor

(2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(3) Margin = Result - Limit

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	**Model Name. :**	ion4x_w2_ext
Temperature:	25℃	**Relative Humidity:**	51%
Distance:	3m	**Test Power:**	110VAC, 60Hz
Polarization:	**Horizontal**	**Test Result:**	Pass
Standard:	(RE) FCC PART 15	**Test By:**	Ankur
Test Mode:	Keeping TX mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	33.4449	44.47	-12.84	31.63	40.00	-8.37	QP
2		50.5860	35.94	-15.32	20.62	40.00	-19.38	QP
3		84.1100	33.37	-16.16	17.21	40.00	-22.79	QP
4		185.7882	21.42	-13.30	8.12	43.50	-35.38	QP
5		383.9318	18.34	-5.95	12.39	46.00	-33.61	QP
6		836.2443	15.82	4.16	19.98	46.00	-26.02	QP

The test result is calculated as the following:

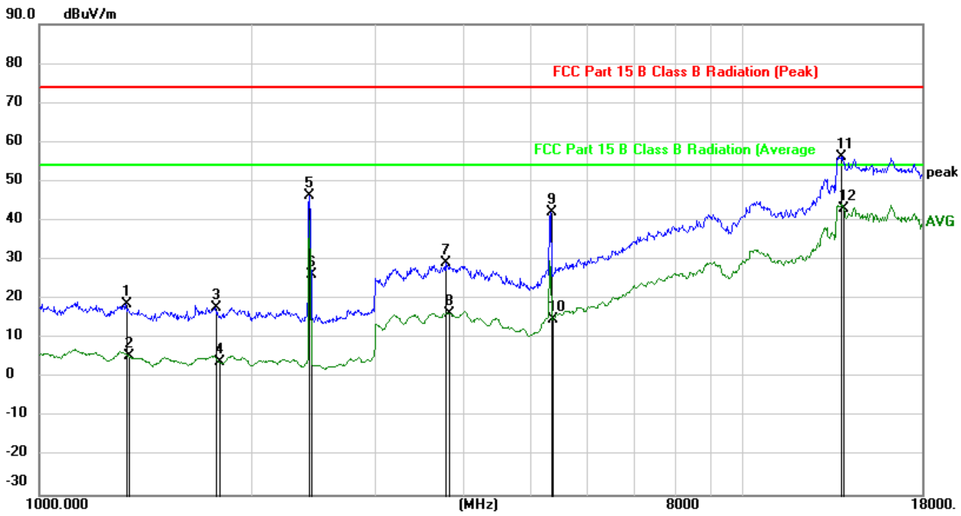
(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(6) Margin = Result - Limit

TEST RESULTS (Between 1000M – 18000 MHz)

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	Model Name. :	ion4x_w2_ext
Temperature:	25℃	Relative Humidity:	51%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	**Vertical**	Test Result:	Pass
Standard:	(RE) FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		1327.446	26.95	-8.22	18.73	74.00	-55.27	peak
2		1339.006	13.77	-8.26	5.51	54.00	-48.49	AVG
3		1777.458	26.74	-8.92	17.82	74.00	-56.18	peak
4		1798.127	13.10	-8.92	4.18	54.00	-49.82	AVG
5		2421.661	55.87	-9.49	46.38	74.00	-27.62	peak
6		2428.671	35.76	-9.51	26.25	54.00	-27.75	AVG
7		3779.422	35.03	-5.85	29.18	74.00	-44.82	peak
8		3812.336	22.15	-5.76	16.39	54.00	-37.61	AVG
9		5330.928	47.99	-5.80	42.19	74.00	-31.81	peak
10		5361.834	20.27	-5.49	14.78	54.00	-39.22	AVG
11		13797.08	37.15	19.25	56.40	74.00	-17.60	peak
12	*	13917.24	23.89	19.14	43.03	54.00	-10.97	AVG

Note: Marker 5 & 9 is intentionally radiated frequency from the EUT.

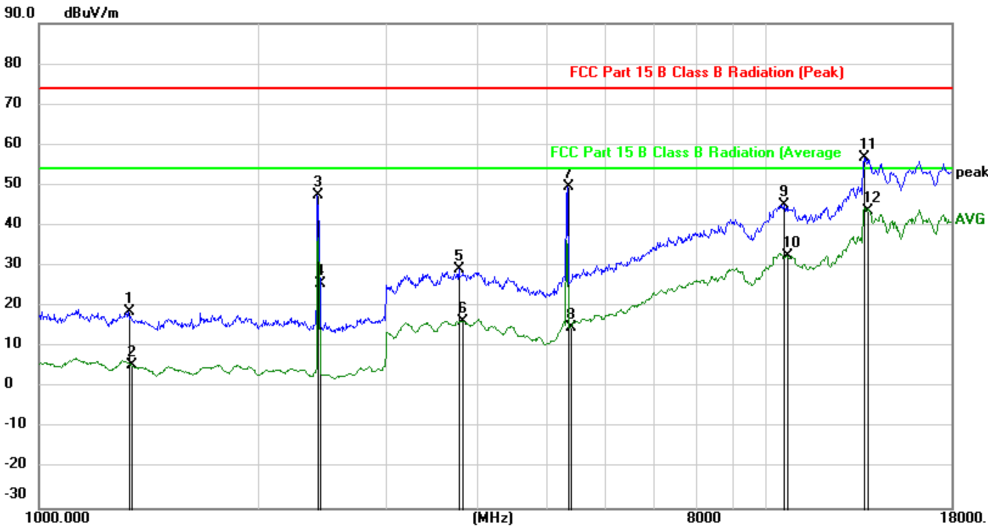
The test result is calculated as the following:

(1) Result = Reading + Correct Factor

(2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(3) Margin = Result - Limit

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	Model Name. :	ion4x_w2_ext
Temperature:	25℃	Relative Humidity:	51%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	**Horizontal**	Test Result:	Pass
Standard:	(RE) FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		1327.446	26.95	-8.22	18.73	74.00	-55.27	peak
2		1339.006	13.72	-8.26	5.46	54.00	-48.54	AVG
3		2414.672	57.08	-9.49	47.59	74.00	-26.41	peak
4		2428.671	35.15	-9.51	25.64	54.00	-28.36	AVG
5		3779.422	35.03	-5.85	29.18	74.00	-44.82	peak
6		3812.336	22.15	-5.76	16.39	54.00	-37.61	AVG
7		5330.928	55.49	-5.80	49.69	74.00	-24.31	peak
8		5377.354	20.16	-5.32	14.84	54.00	-39.16	AVG
9		10575.53	34.18	11.09	45.27	74.00	-28.73	peak
10		10667.63	21.54	10.99	32.53	54.00	-21.47	AVG
11		13677.96	37.37	19.34	56.71	74.00	-17.29	peak
12	*	13757.26	24.30	19.28	43.58	54.00	-10.42	AVG

Note: Marker 3 & 7 is intentionally radiated frequency from the EUT.

The test result is calculated as the following:

(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

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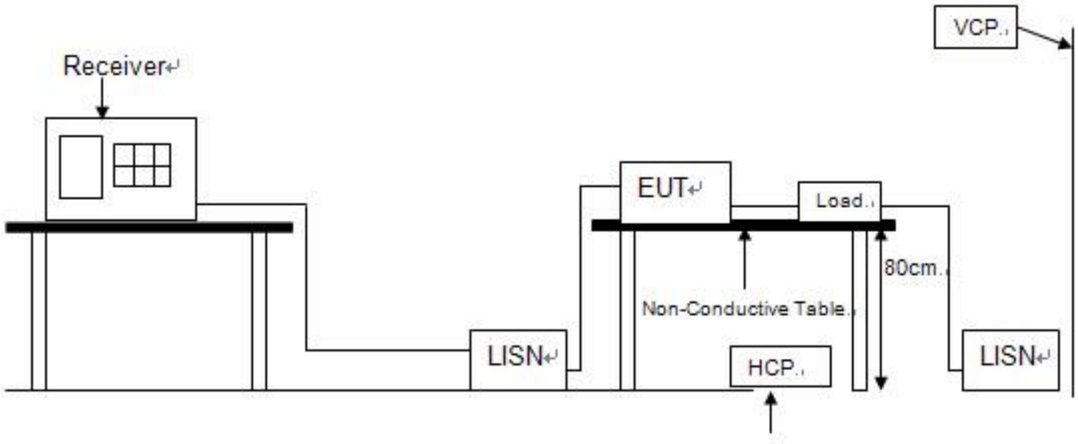
(6) Margin = Result – Limit

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.
Average measurement was not performed if peak level lower than average limit. No any other emissions level very low which are attenuated less than 20dB below the limit. According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

9. POWER LINE CONDUCTED EMISSION

9.1. Block diagram of test setup



9.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

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9.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

9.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means peak detection; “-----” mans average detection

Plot No.174, UdyogVihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India

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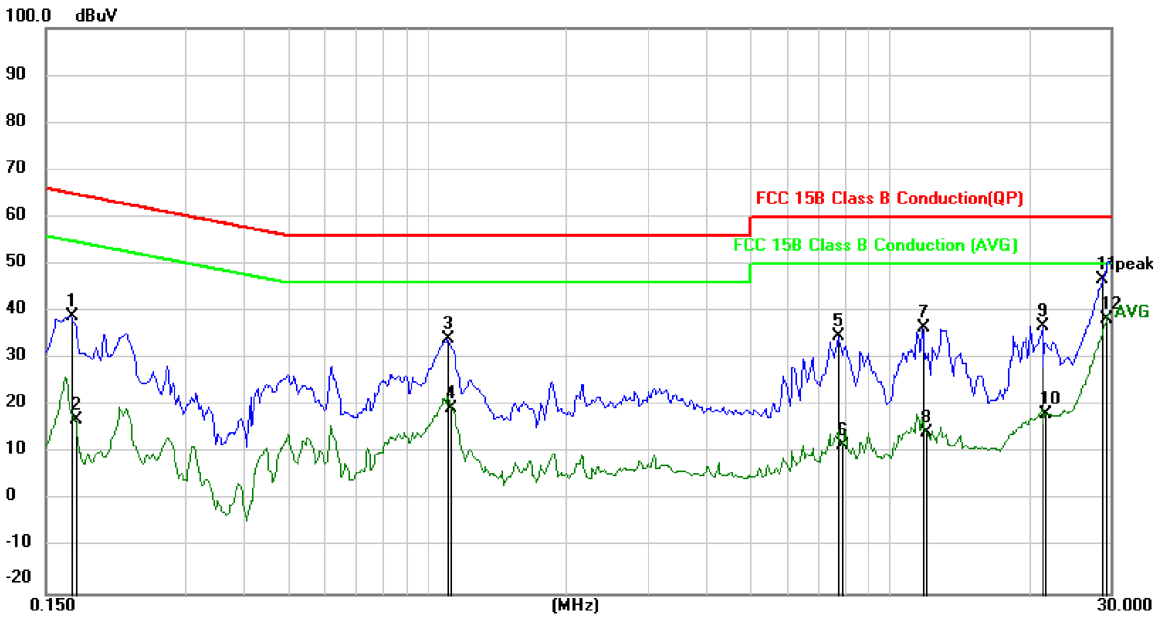
EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	Model Name. :	ion4x_w2_ext
Temperature:	25 °C	Relative Humidity:	51%
Probe:	Line	Test Power:	110VAC, 60Hz
Test Mode:	TX	Test Result:	Pass
Standard:	(CE)FCC PART 15 C_QP		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1695	48.90	-9.96	38.94	64.98	-26.04	QP
2		0.1733	27.07	-9.94	17.13	54.80	-37.67	AVG
3		1.1094	43.95	-9.81	34.14	56.00	-21.86	QP
4		1.1250	29.36	-9.81	19.55	46.00	-26.45	AVG
5		7.7355	44.75	-9.85	34.90	60.00	-25.10	QP
6		7.9032	21.44	-9.85	11.59	50.00	-38.41	AVG
7		11.7524	46.37	-9.84	36.53	60.00	-23.47	QP
8		11.9961	24.30	-9.85	14.45	50.00	-35.55	AVG
9		21.3738	46.89	-10.05	36.84	60.00	-23.16	QP
10		21.7149	28.18	-10.05	18.13	50.00	-31.87	AVG
11		28.9072	41.01	5.68	46.69	60.00	-13.31	QP
12	*	29.5269	30.10	8.19	38.29	50.00	-11.71	AVG

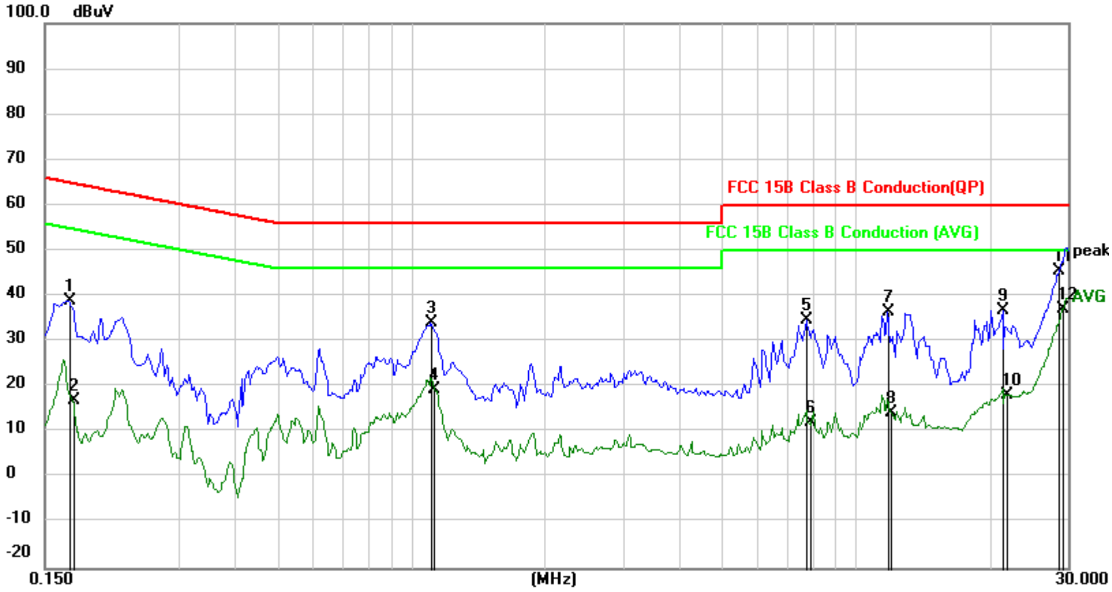
The test result is calculated as the following:

(1) Result = Reading + Correct Factor

(2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator

(3) Margin = Result - Limit

EUT:	IO Wi-Fi 6 Dual Band 2x2:2 Outdoor Access Point with Integrated Antenna (8 dBi) with LTE Band Pass Filter [extended temperature]	**Model Name. :**	ion4x_w2_ext
Temperature:	25 ℃	**Relative Humidity:**	51%
Probe:	**Neutral**	**Test Power:**	110VAC, 60Hz
Test Mode:	**TX**	**Test Result:**	**Pass**
Standard:	**(CE)FCC PART 15 C_QP**		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1695	48.90	-9.96	38.94	64.98	-26.04	QP
2		0.1733	27.07	-9.94	17.13	54.80	-37.67	AVG
3		1.1094	43.95	-9.81	34.14	56.00	-21.86	QP
4		1.1250	29.36	-9.81	19.55	46.00	-26.45	AVG
5		7.7355	44.75	-9.85	34.90	60.00	-25.10	QP
6		7.9352	22.16	-9.85	12.31	50.00	-37.69	AVG
7		11.7524	46.37	-9.84	36.53	60.00	-23.47	QP
8		11.9961	24.30	-9.85	14.45	50.00	-35.55	AVG
9		21.3738	46.89	-10.05	36.84	60.00	-23.16	QP
10		21.9462	28.17	-10.06	18.11	50.00	-31.89	AVG
11		28.6030	41.02	4.46	45.48	60.00	-14.52	QP
12	*	29.2152	30.33	6.93	37.26	50.00	-12.74	AVG

The test result is calculated as the following:

(1) Result = Reading + Correct Factor

(2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator

(3) Margin = Result – Limit

10. CONDUCTED SPURIOUS EMISSIONS

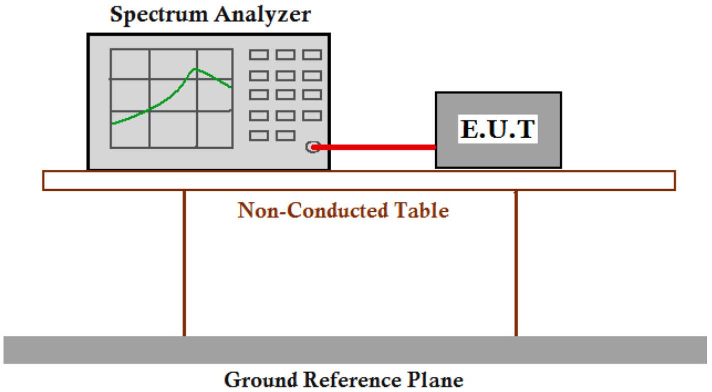
Test Requirement: FCC Part 15 C section 15.407

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10: Clause 6.7

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

Test Configuration:

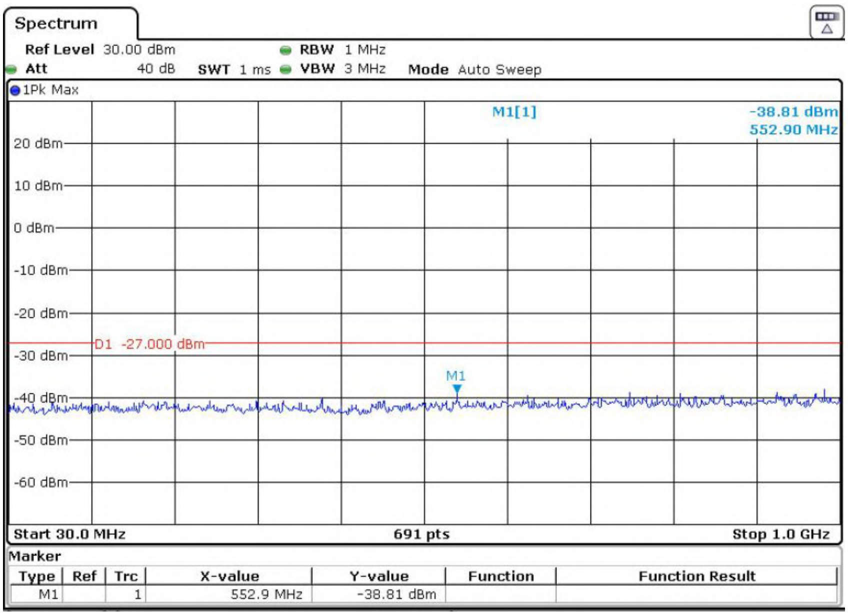


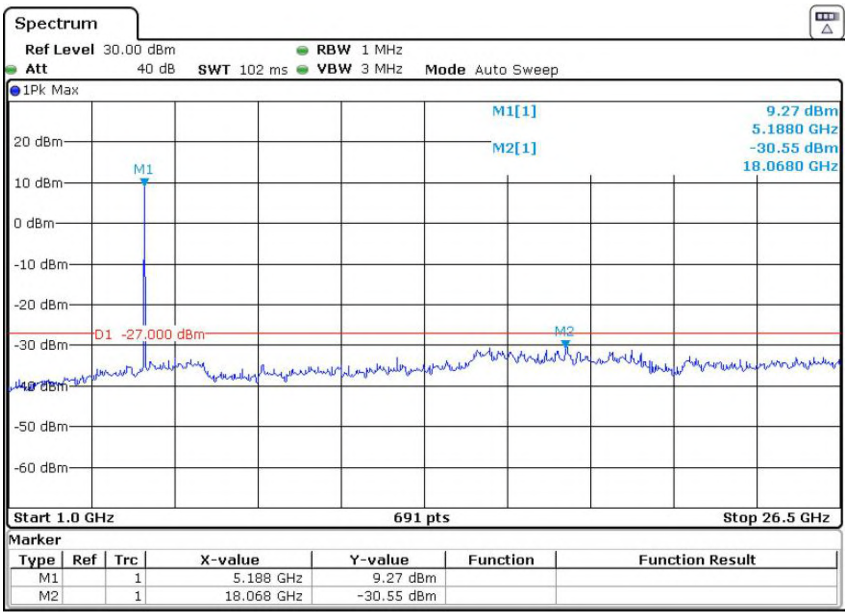
Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.

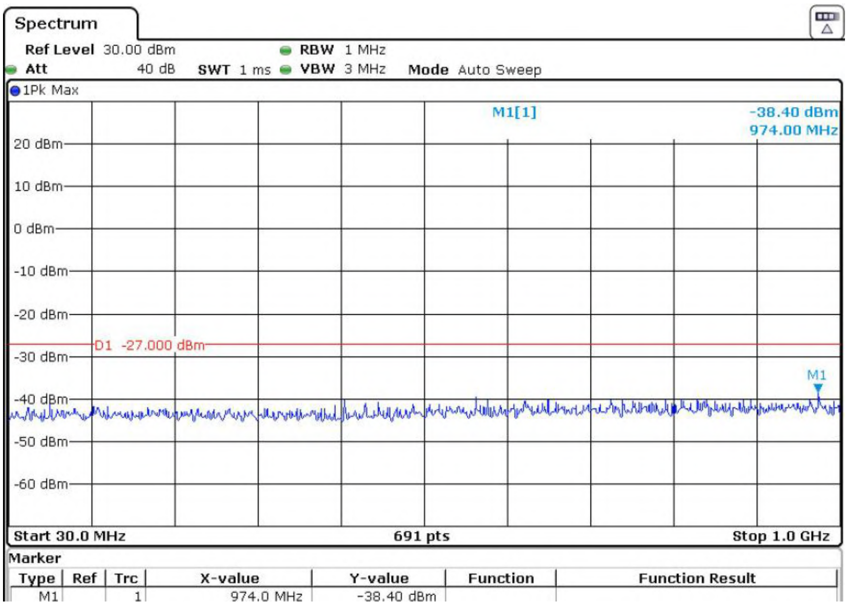
Result plot as follows: CHAIN 0

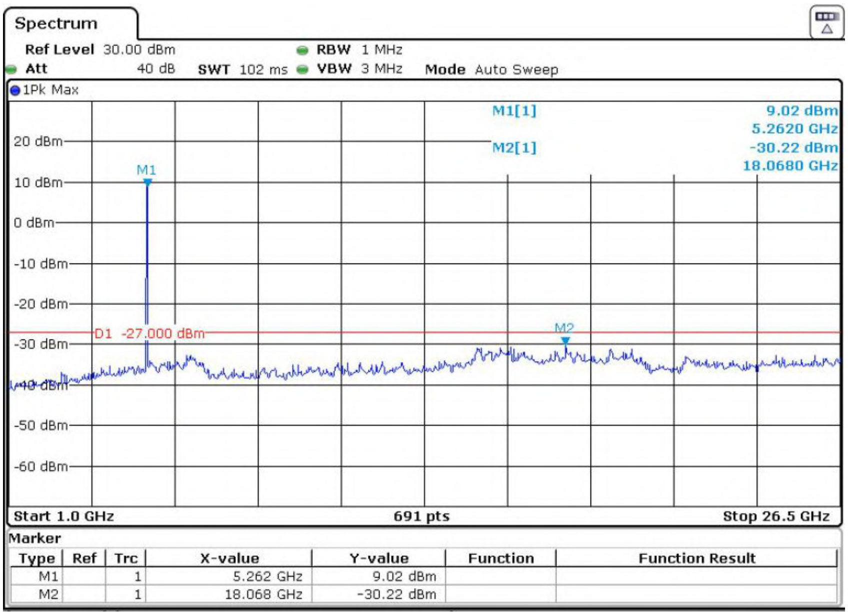
a20 5.180 GHz



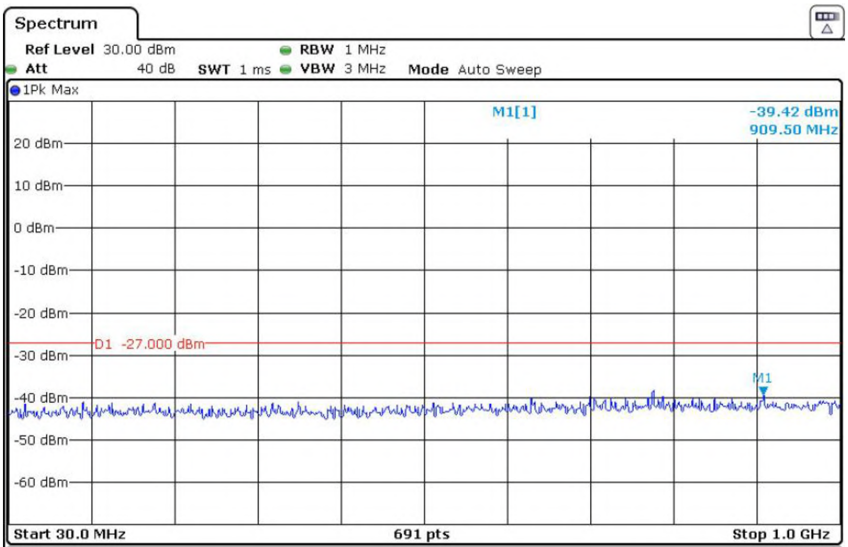


a20 5.240 GHz

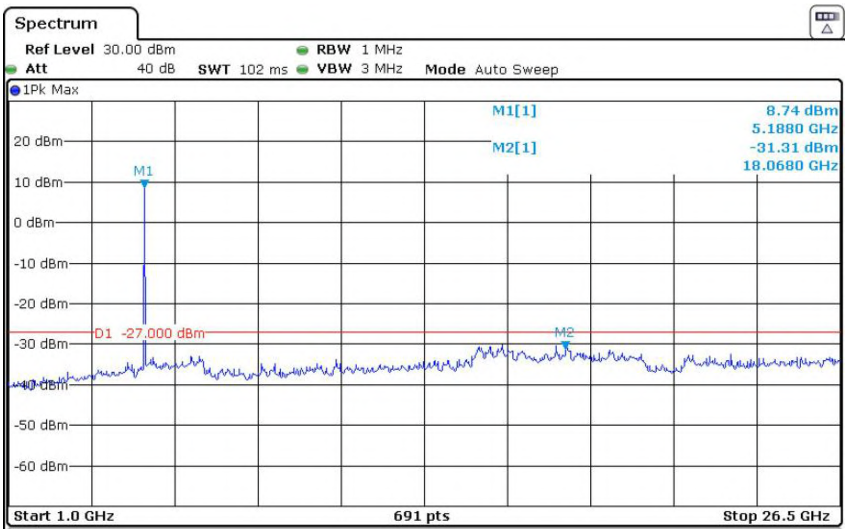

Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
-38.40 dBm
974.00 MHz
D1 -27.000 dBm
M1
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 974.0 MHz | -38.40 dBm | |


Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
9.02 dBm
5.2620 GHz
M2[1]
-30.22 dBm
18.0680 GHz
M1
D1 -27.000 dBm
M2
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 5.262 GHz | 9.02 dBm | |
M2 | | 1 | 18.068 GHz | -30.22 dBm | |

n20 5.180 GHz

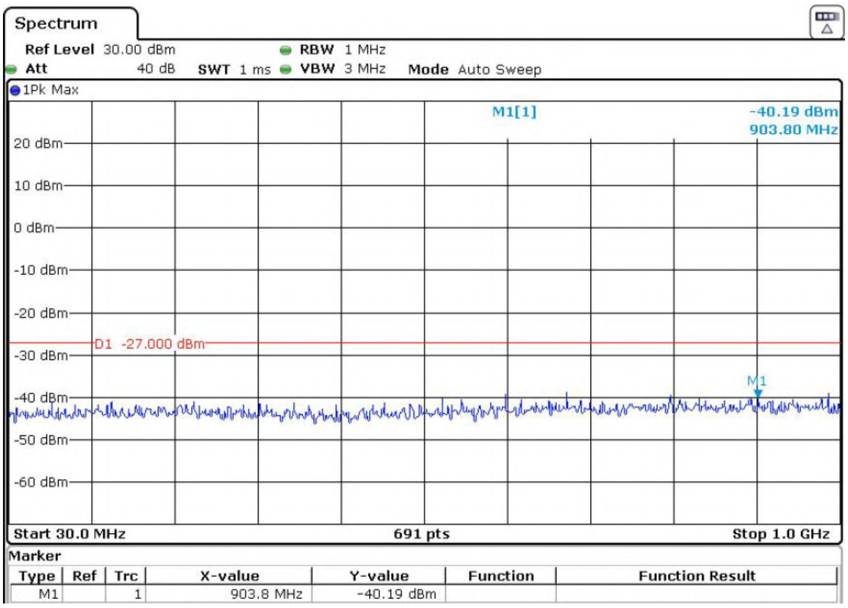


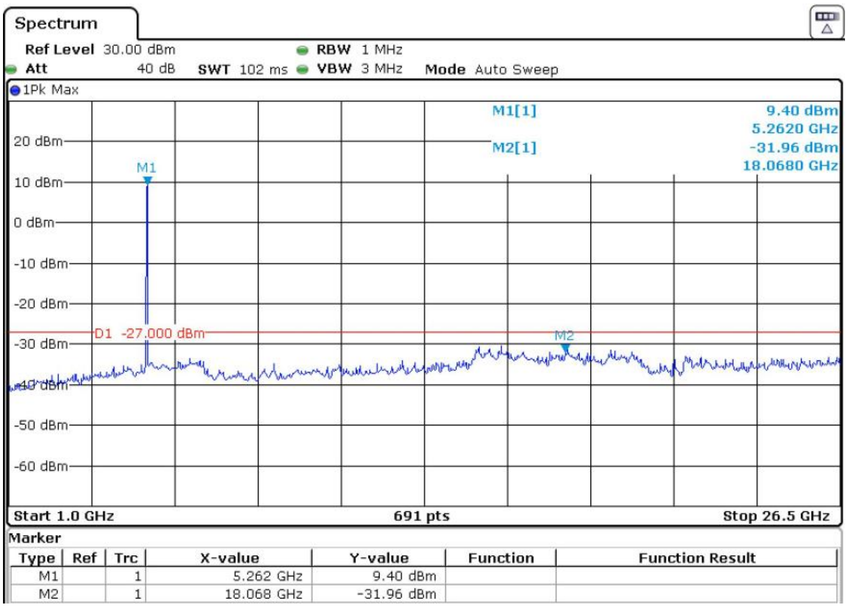
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	909.5 MHz	-39.42 dBm		



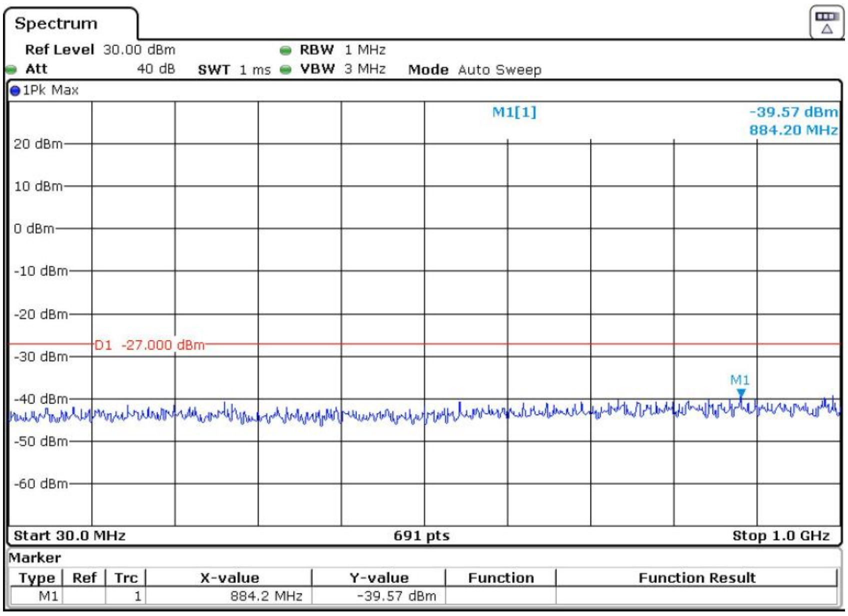
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.188 GHz	8.74 dBm		
M2		1	18.068 GHz	-31.31 dBm		

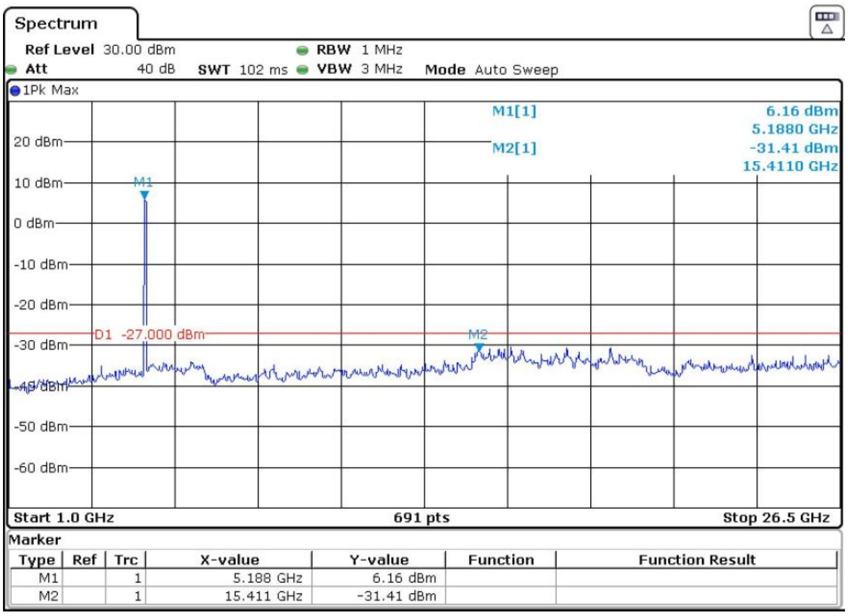
n20 5.240 GHz


Spectrum
Ref Level 30.00 dBm RBW 1 MHz
Att 40 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep
1Pk Max
M1[1] -40.19 dBm 903.80 MHz
D1 -27.000 dBm
Start 30.0 MHz 691 pts Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 903.8 MHz -40.19 dBm

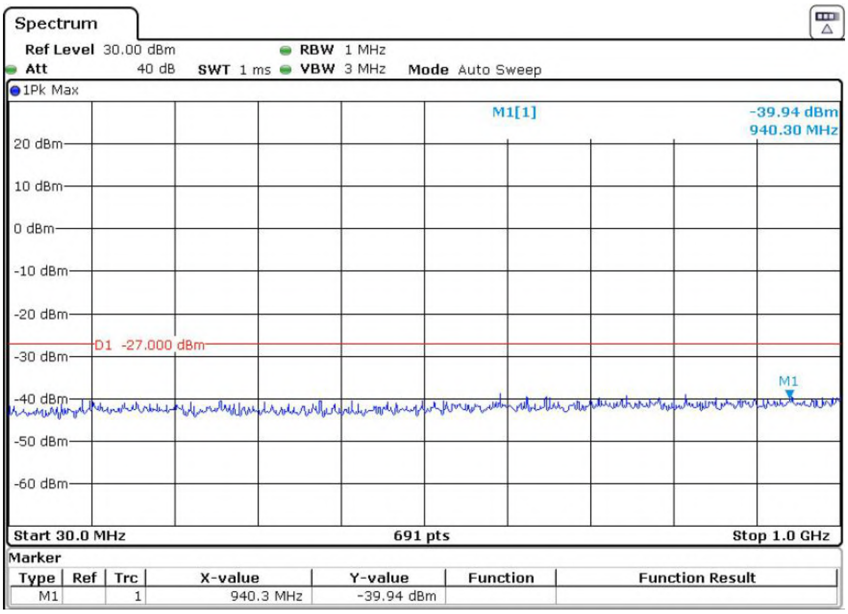

Spectrum
Ref Level 30.00 dBm RBW 1 MHz
Att 40 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep
1Pk Max
M1[1] 9.40 dBm 5.2620 GHz
M2[1] -31.96 dBm 18.0680 GHz
D1 -27.000 dBm
Start 1.0 GHz 691 pts Stop 26.5 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.262 GHz 9.40 dBm
M2 1 18.068 GHz -31.96 dBm

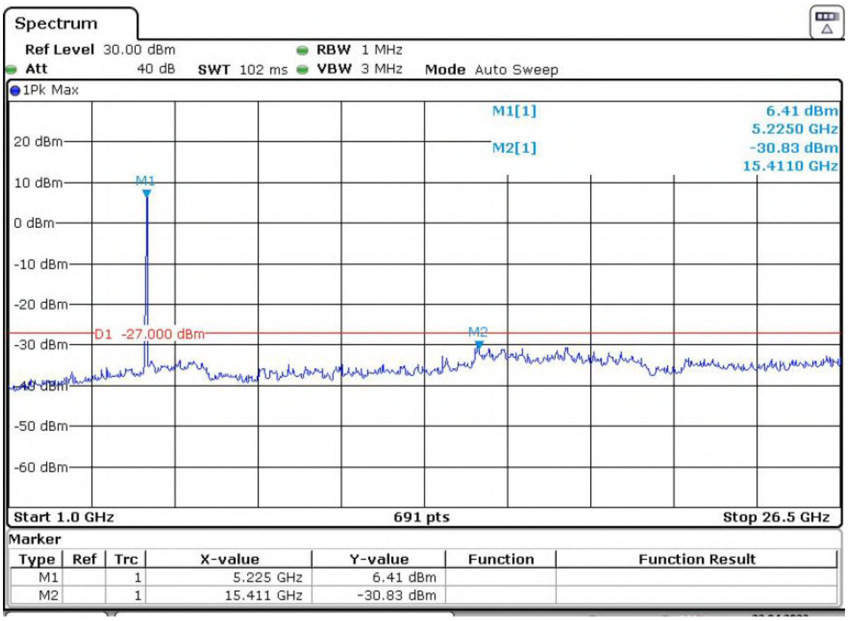
n40 5.190 GHz


Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
-39.57 dBm
884.20 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -27.000 dBm
M1
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 884.2 MHz -39.57 dBm

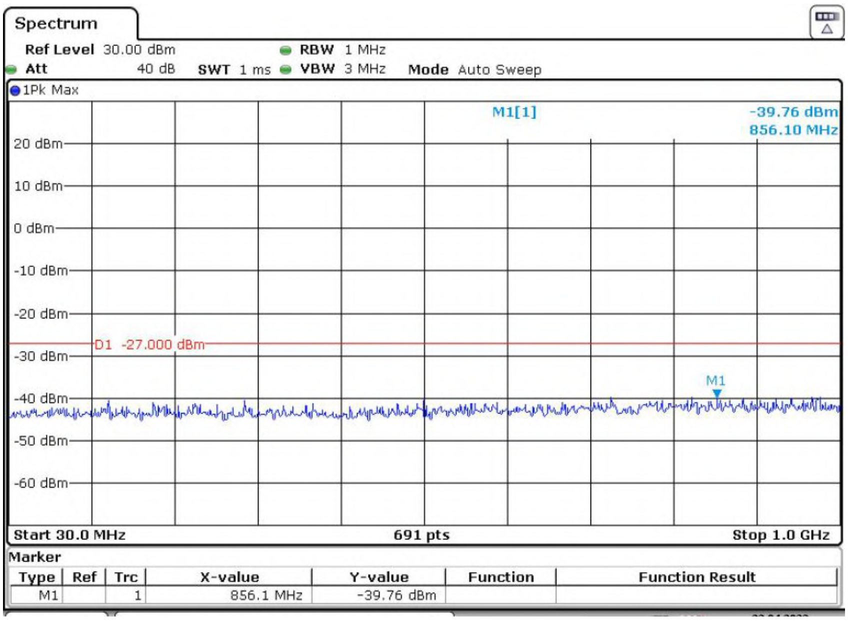

Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
6.16 dBm
5.1880 GHz
M2[1]
-31.41 dBm
15.4110 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
D1 -27.000 dBm
M1
M2
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.188 GHz 6.16 dBm
M2 1 15.411 GHz -31.41 dBm

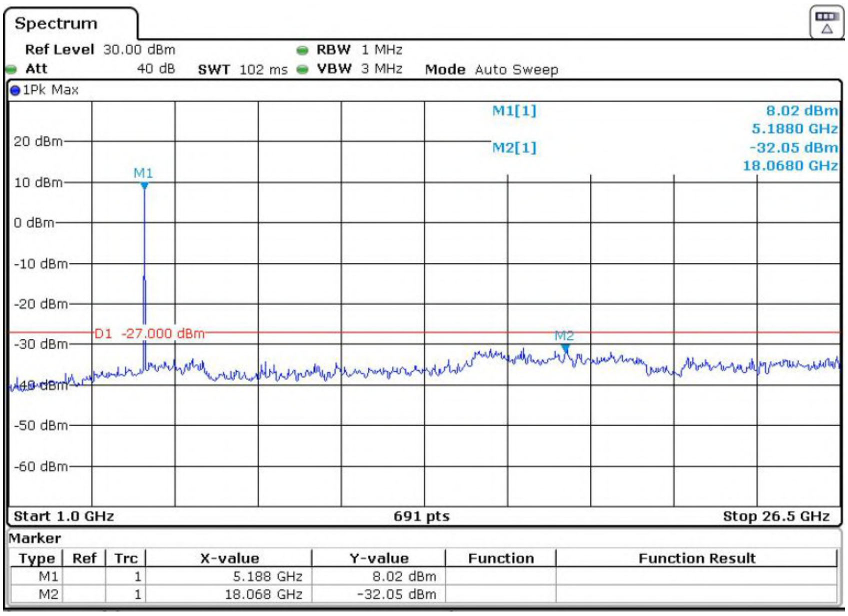
n40 5.230 GHz


Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
-39.94 dBm
940.30 MHz
D1 -27.000 dBm
M1
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 940.3 MHz | -39.94 dBm | |

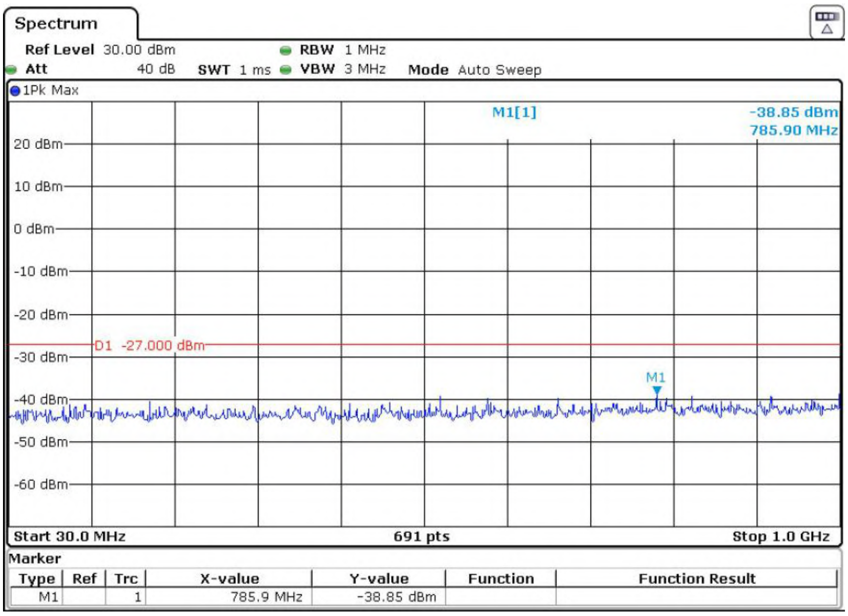

Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1]
6.41 dBm
5.2250 GHz
M2[1]
-30.83 dBm
15.4110 GHz
M1
M2
D1 -27.000 dBm
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 5.225 GHz | 6.41 dBm | |
M2 | | 1 | 15.411 GHz | -30.83 dBm | |

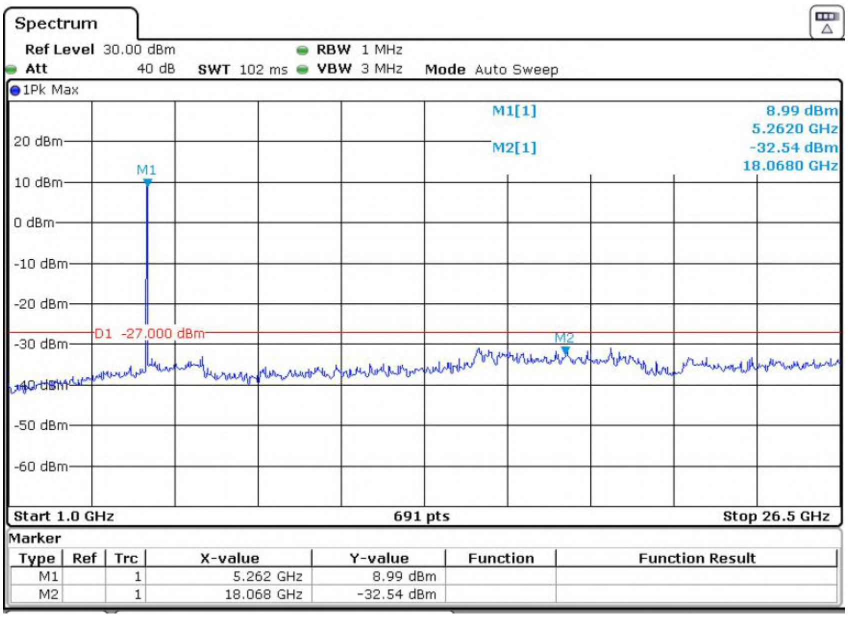
ac20 5.180 GHz



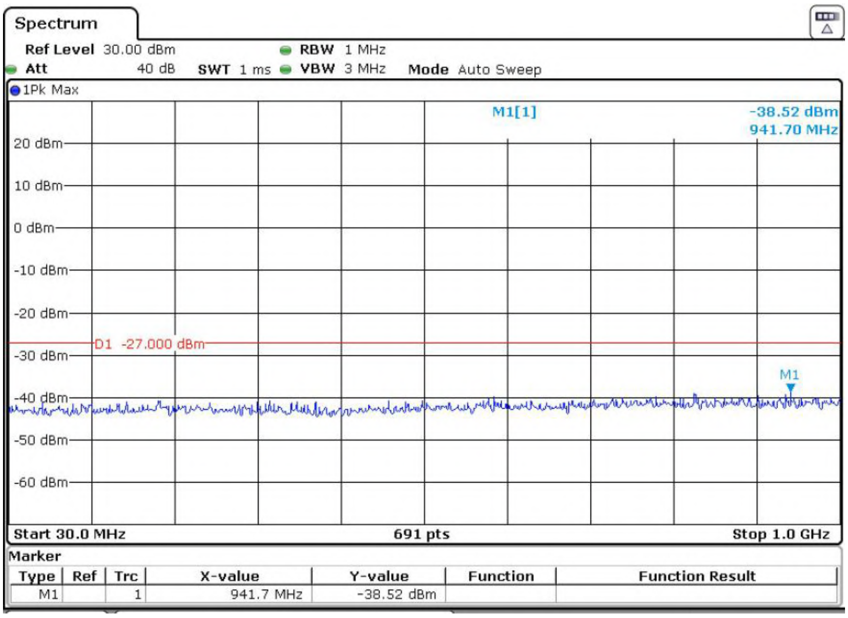


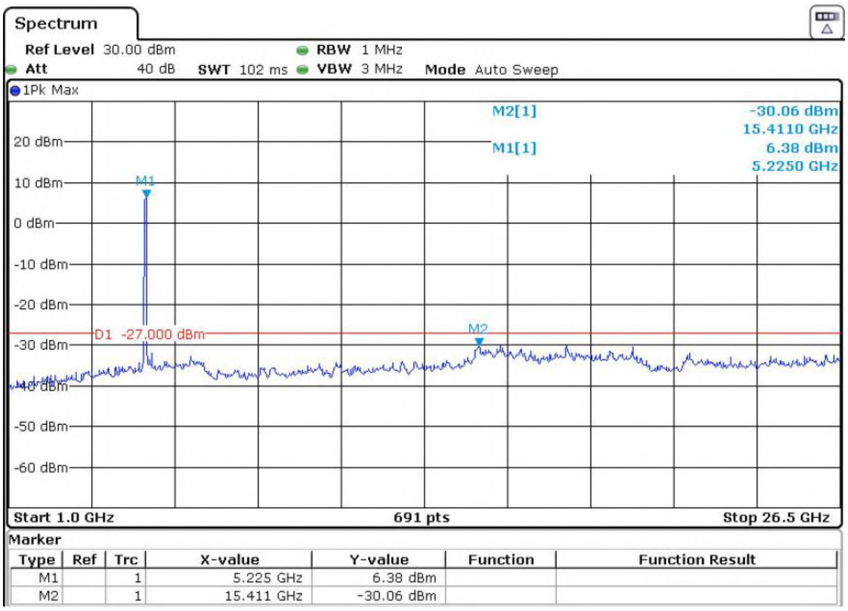
ac20 5.240GHz



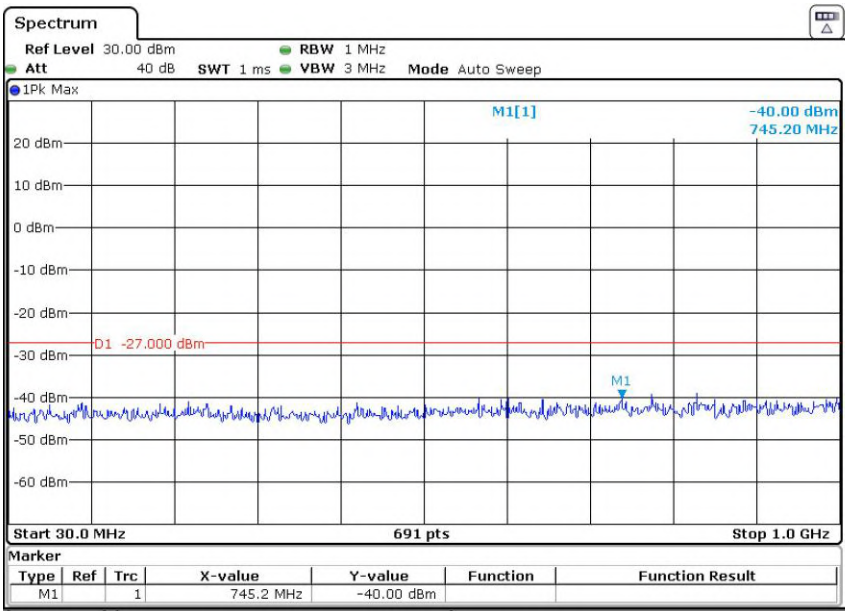


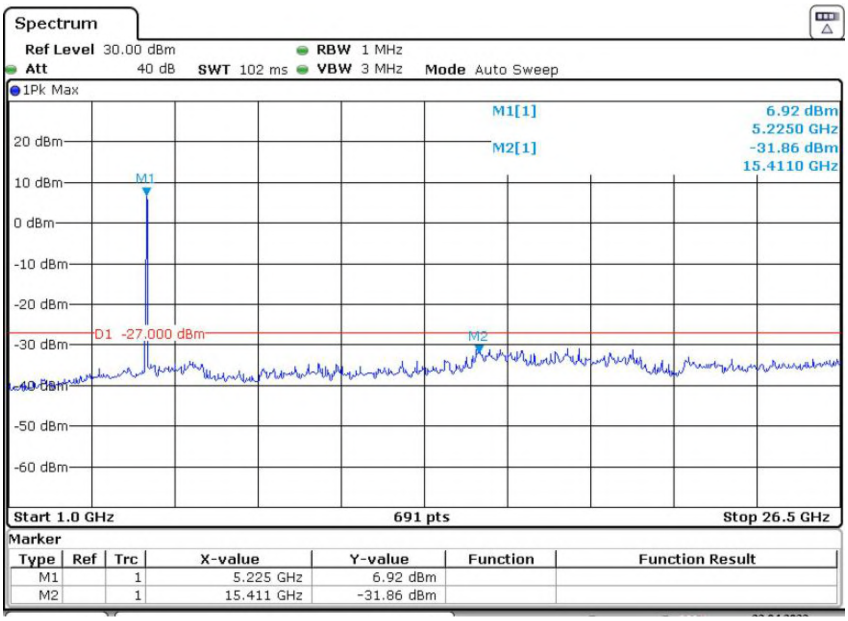
ac40 5.190GHz



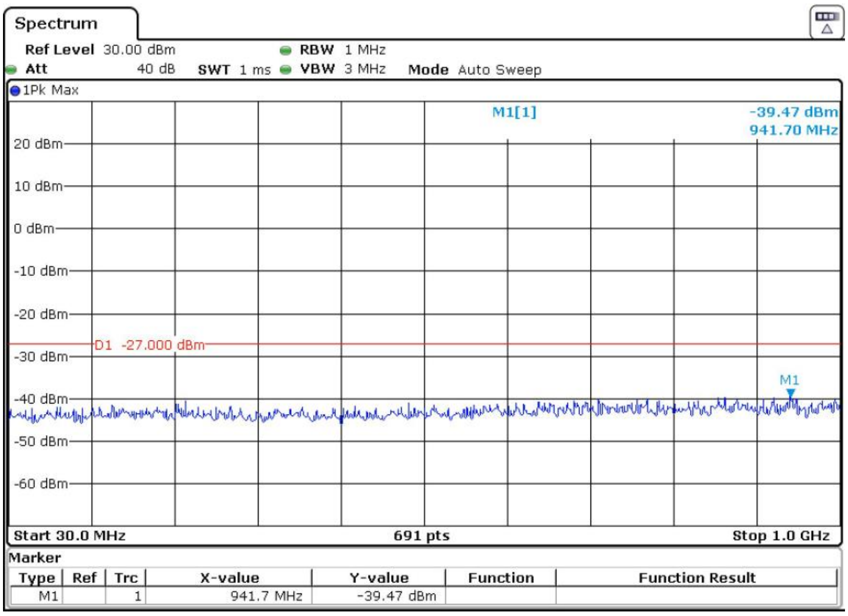


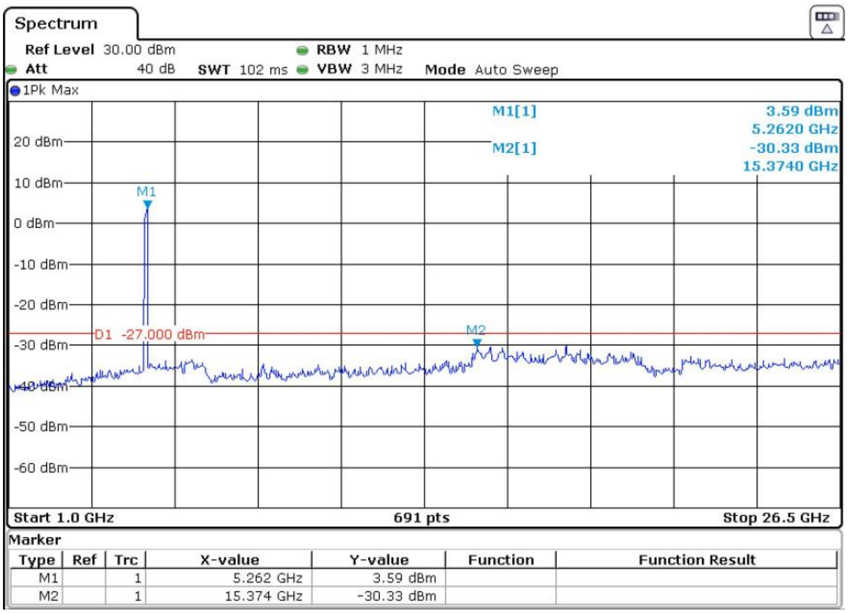
ac40 5.230GHz



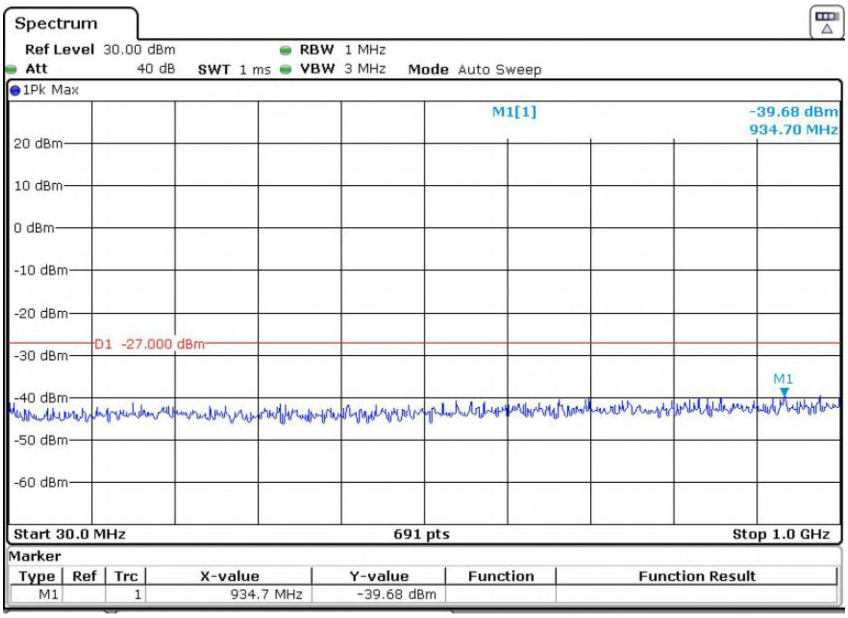


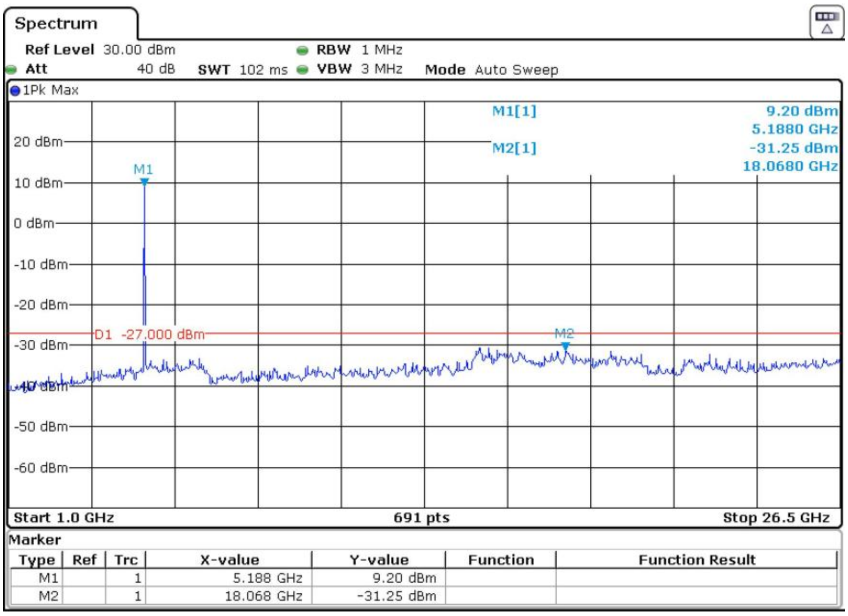
ac80 5.210GHz



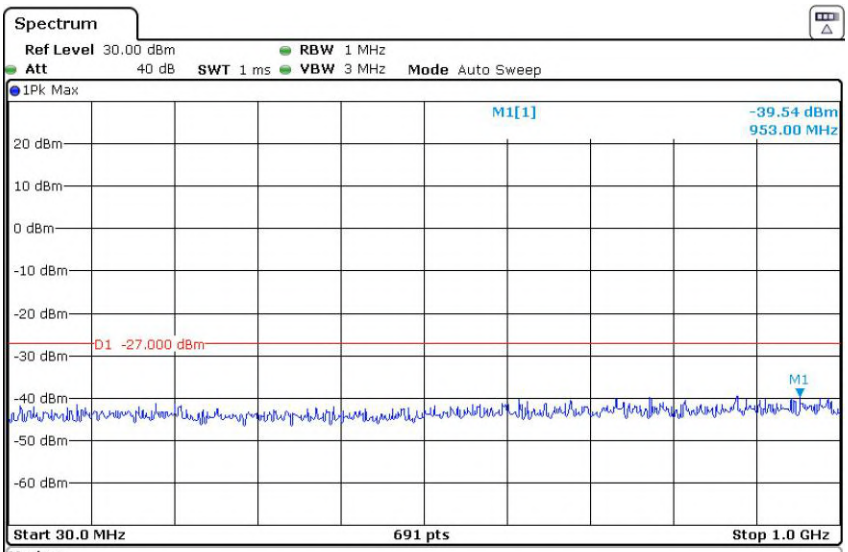


ax20 5.180 GHz

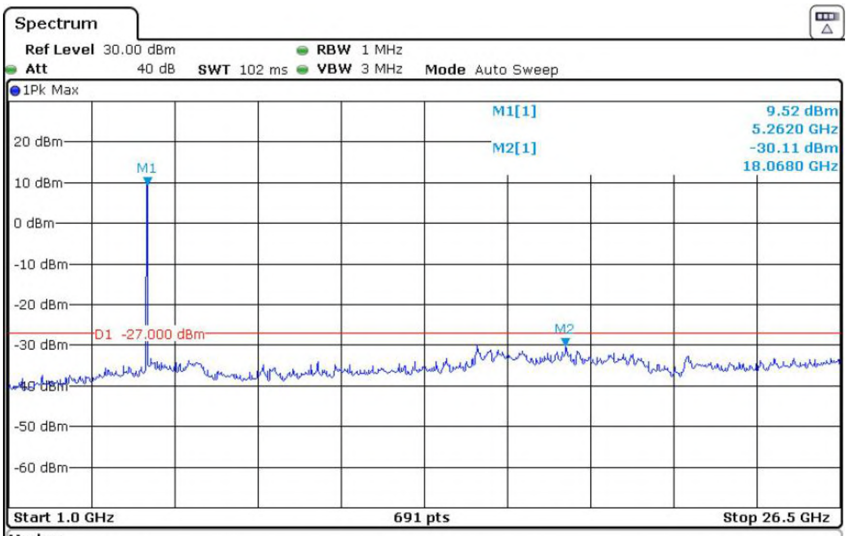




ax20 5.240 GHz

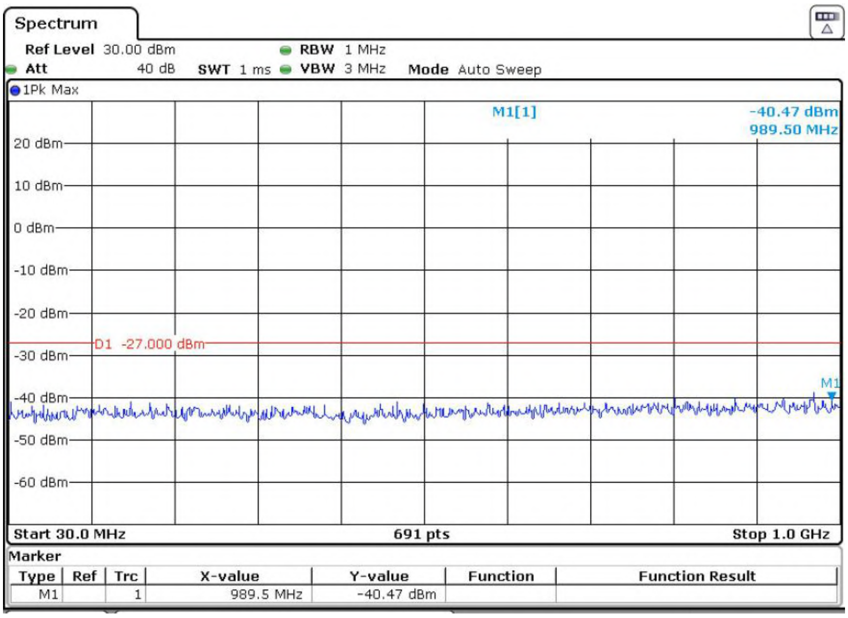


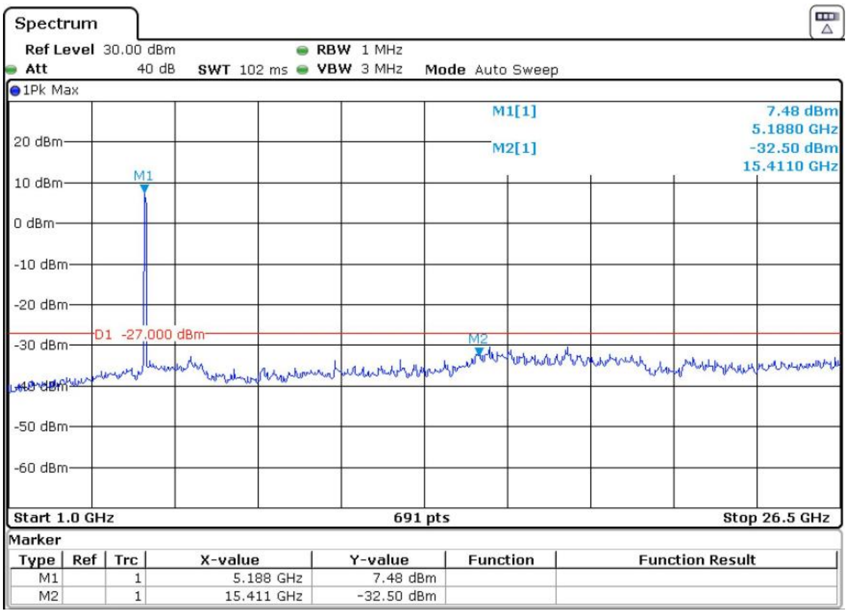
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	953.0 MHz	-39.54 dBm		



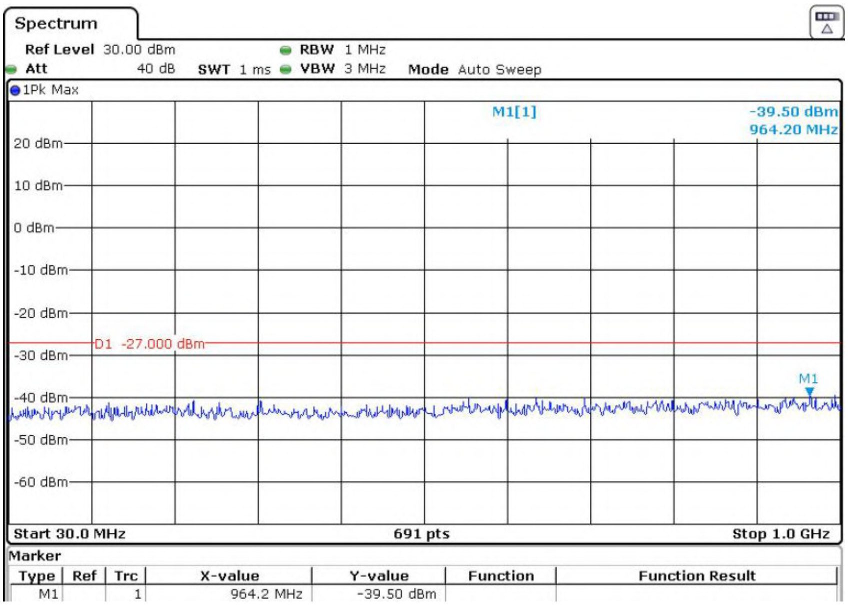
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.262 GHz	9.52 dBm		
M2		1	18.068 GHz	-30.11 dBm		

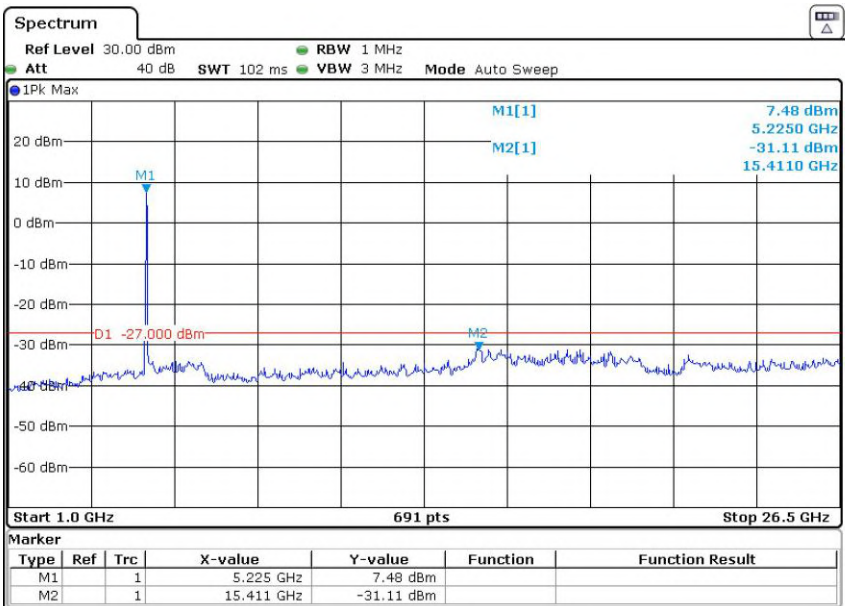
ax40 5.190 GHz





ax40 5.230 GHz

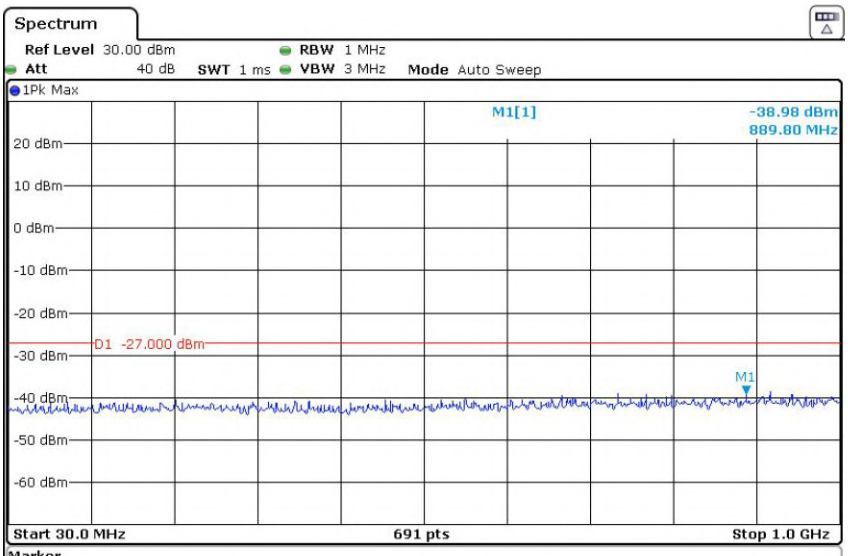




Plot No.174, UdyogVihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India

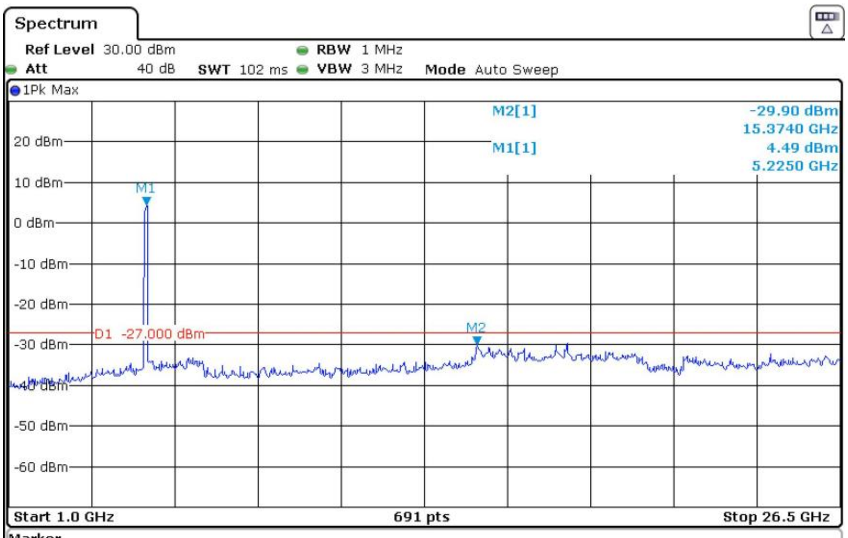
Contact: 0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

ax80 5.210 GHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	889.8 MHz	-38.98 dBm		

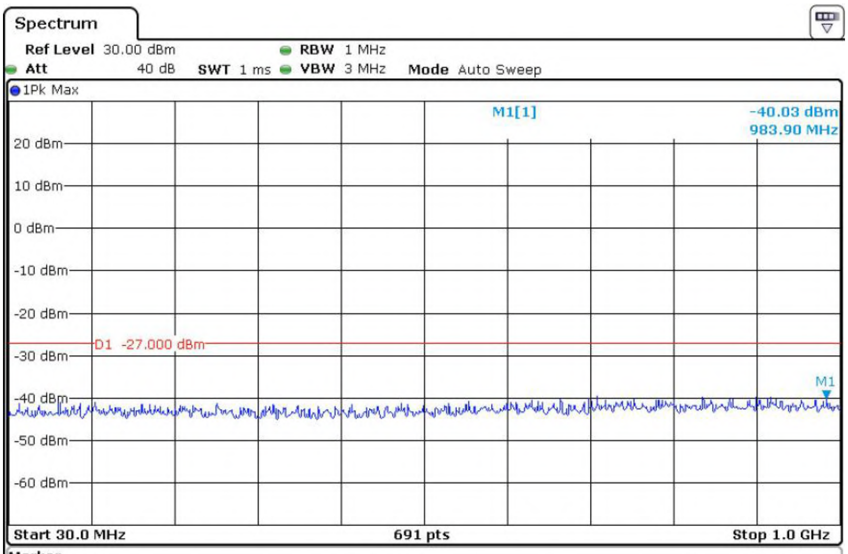


Marker

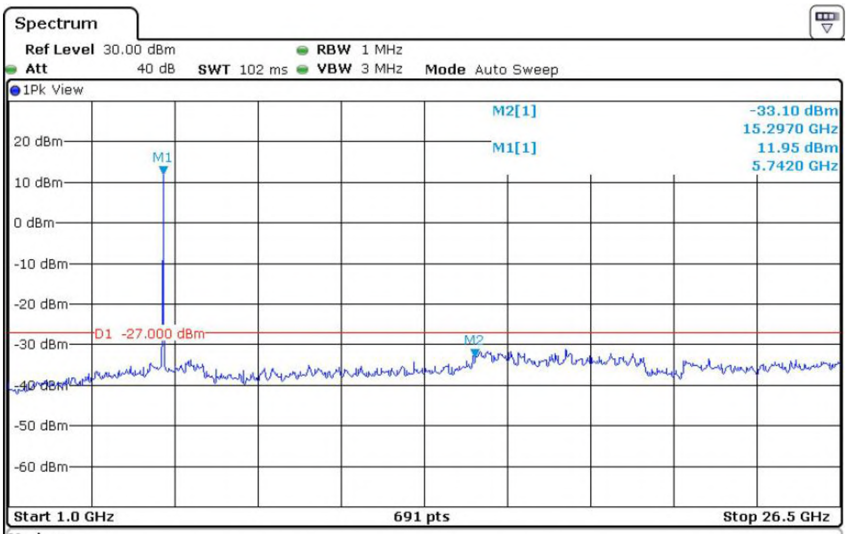
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.225 GHz	4.49 dBm		
M2		1	15.374 GHz	-29.90 dBm		

Result plot as follows: CHAIN 0

a20 5.745 GHz

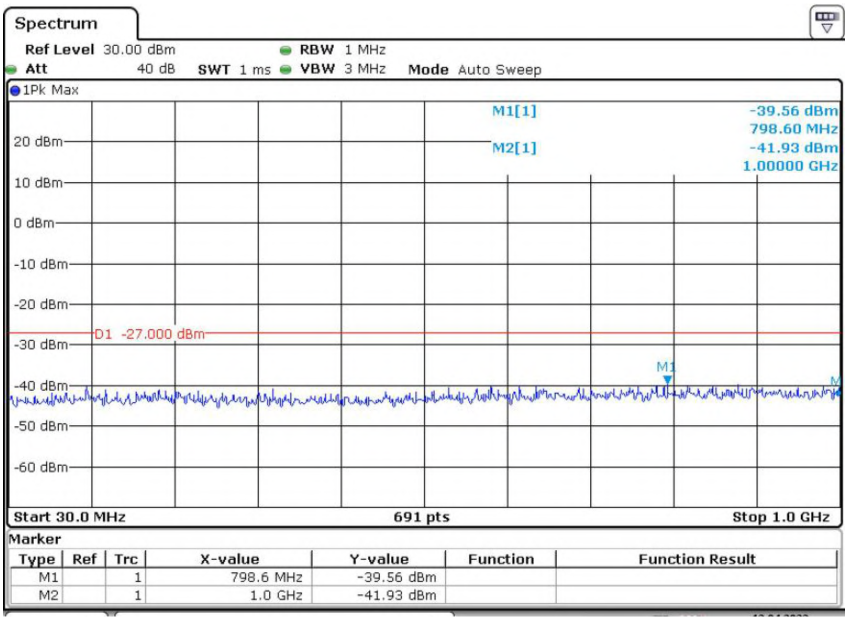


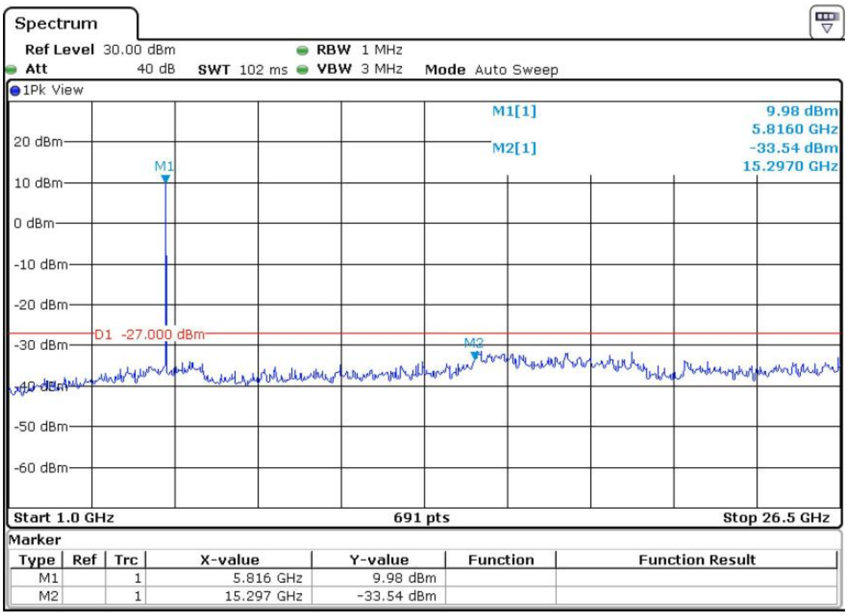
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	983.9 MHz	-40.03 dBm		



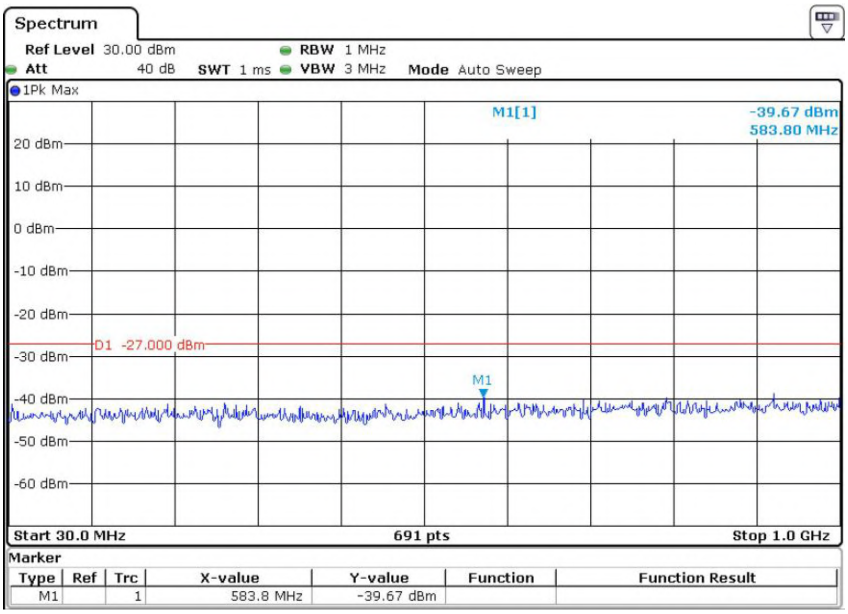
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.742 GHz	11.95 dBm		
M2		1	15.297 GHz	-33.10 dBm		

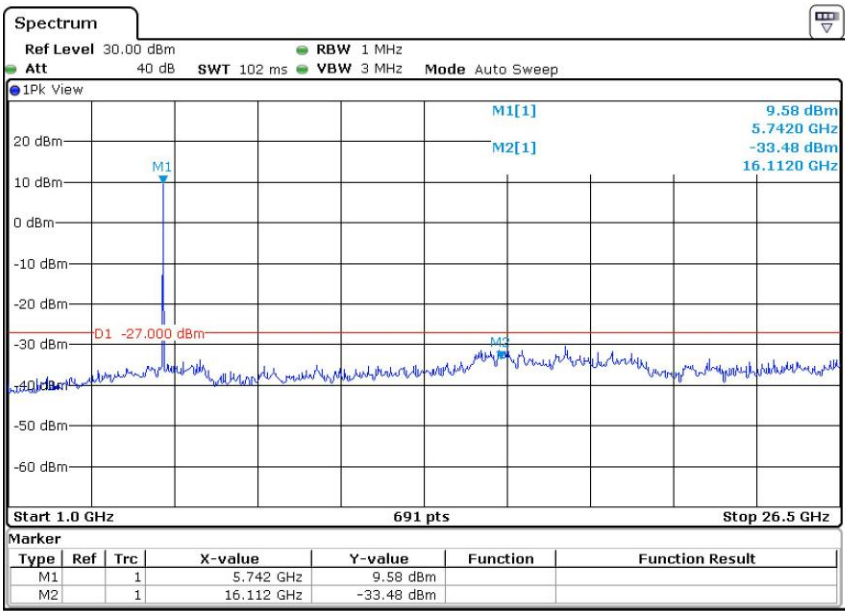
a20 5.825 GHz


Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk Max
M1[1] -39.56 dBm 798.60 MHz
M2[1] -41.93 dBm 1.00000 GHz
D1 -27.000 dBm
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 798.6 MHz | -39.56 dBm | |
M2 | | 1 | 1.0 GHz | -41.93 dBm | |


Spectrum
Ref Level 30.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk View
M1[1] 9.98 dBm 5.8160 GHz
M2[1] -33.54 dBm 15.2970 GHz
D1 -27.000 dBm
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 5.816 GHz | 9.98 dBm | |
M2 | | 1 | 15.297 GHz | -33.54 dBm | |

n20 5.745 GHz





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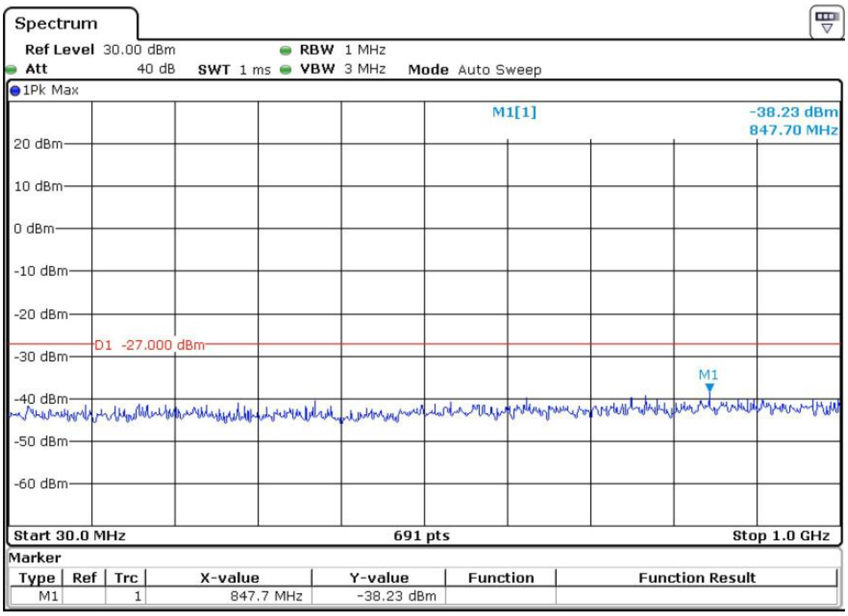
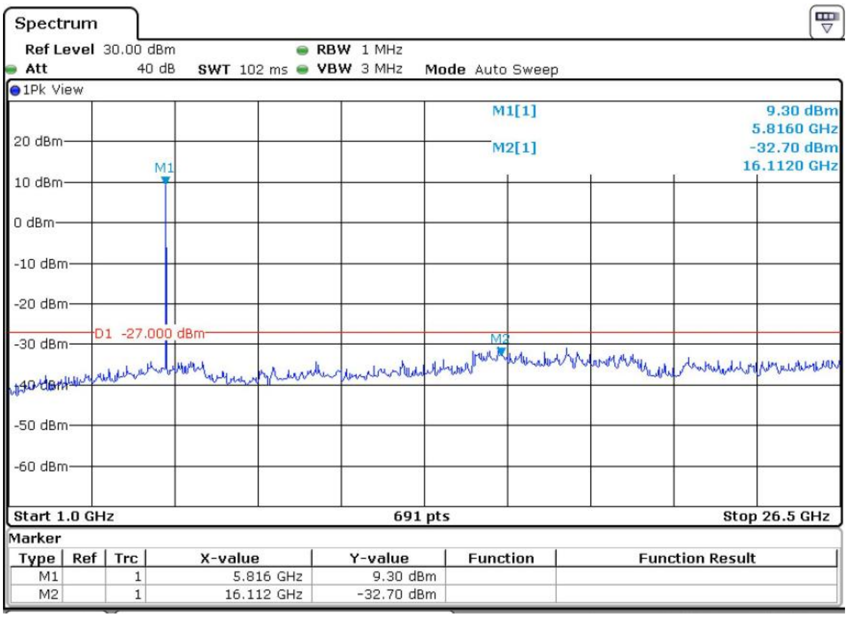
Contact: 0124-4235350, 4145343; e-mail: info @aaemtlabs.com; Website: www.aaemtlabs.com

n20 5.825 GHz





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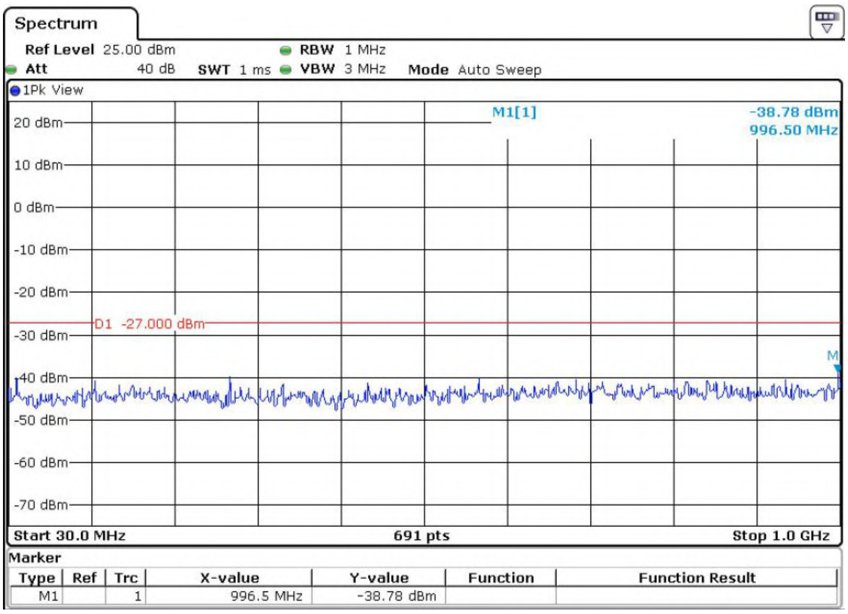
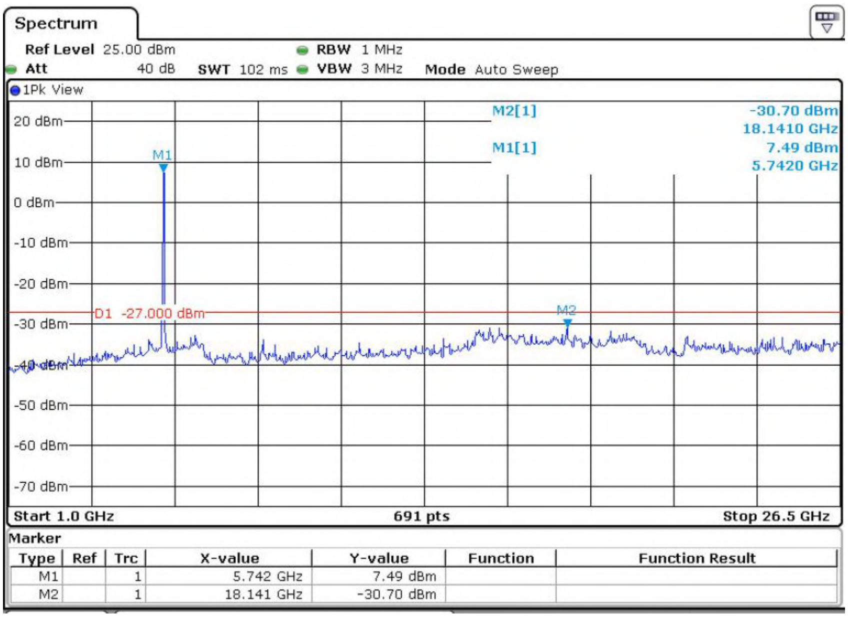
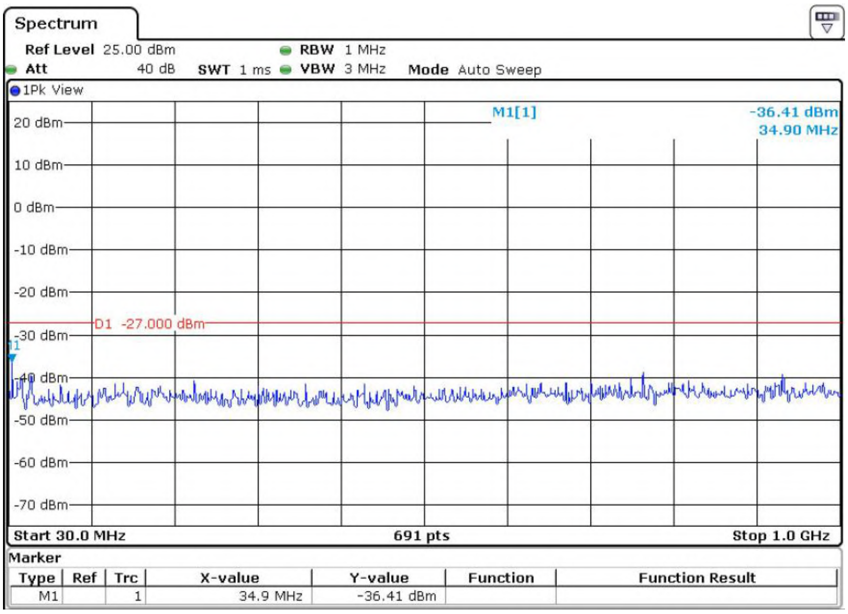
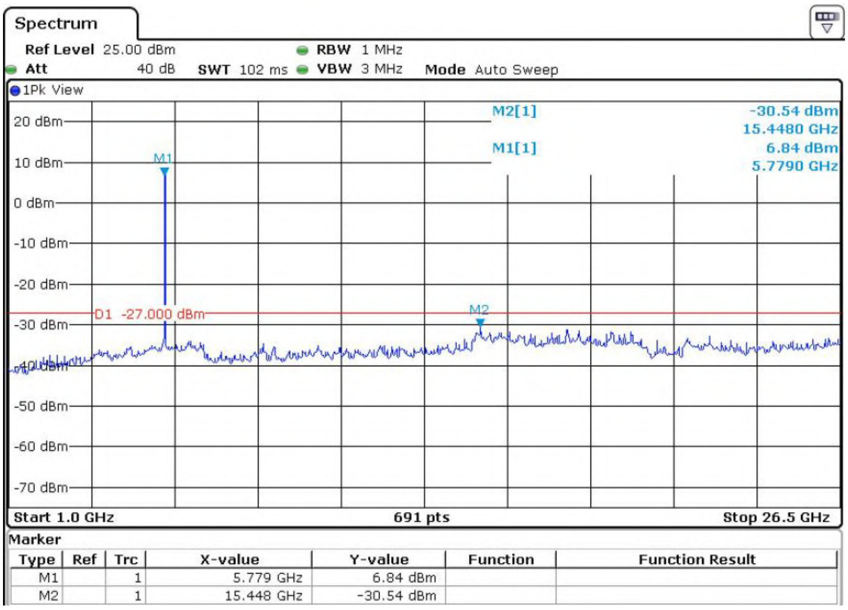
n40 5.755 GHz


Spectrum
Ref Level 25.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk View
M1[1]
-38.78 dBm
996.50 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
D1 -27.000 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 996.5 MHz -38.78 dBm

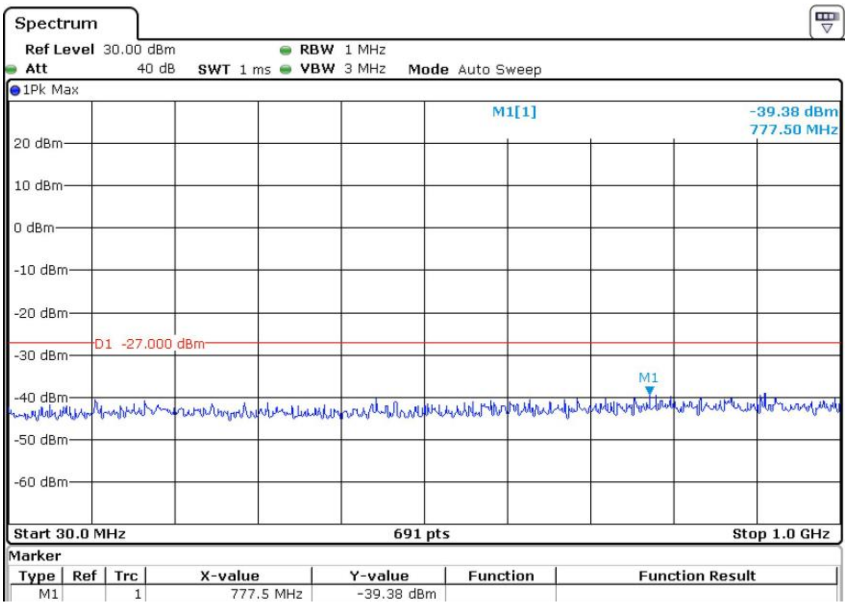

Spectrum
Ref Level 25.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk View
M2[1]
-30.70 dBm
18.1410 GHz
M1[1]
7.49 dBm
5.7420 GHz
M1
M2
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
D1 -27.000 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.742 GHz 7.49 dBm
M2 1 18.141 GHz -30.70 dBm

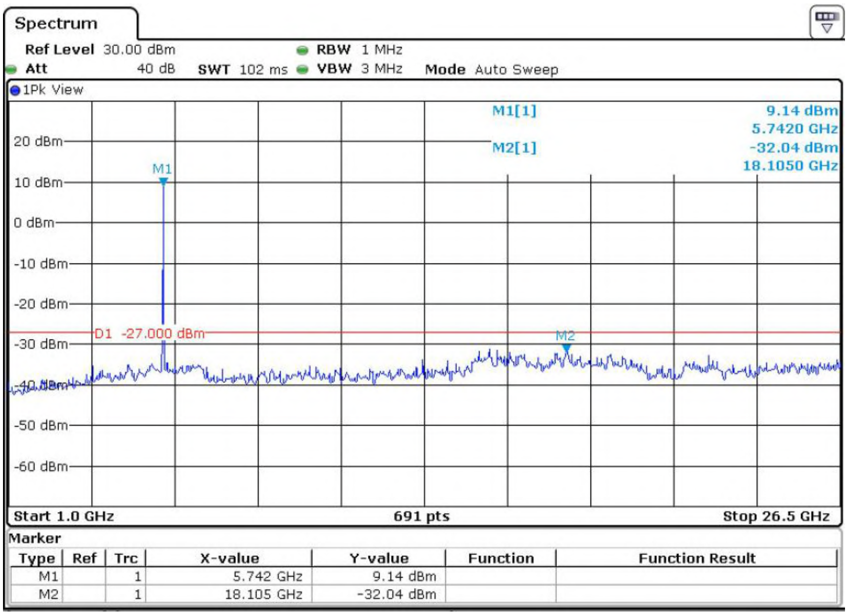
n40 5.795 GHz


Spectrum
Ref Level 25.00 dBm
Att 40 dB
SWT 1 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk View
M1[1]
-36.41 dBm
34.90 MHz
D1 -27.000 dBm
Start 30.0 MHz
691 pts
Stop 1.0 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 34.9 MHz | -36.41 dBm | |

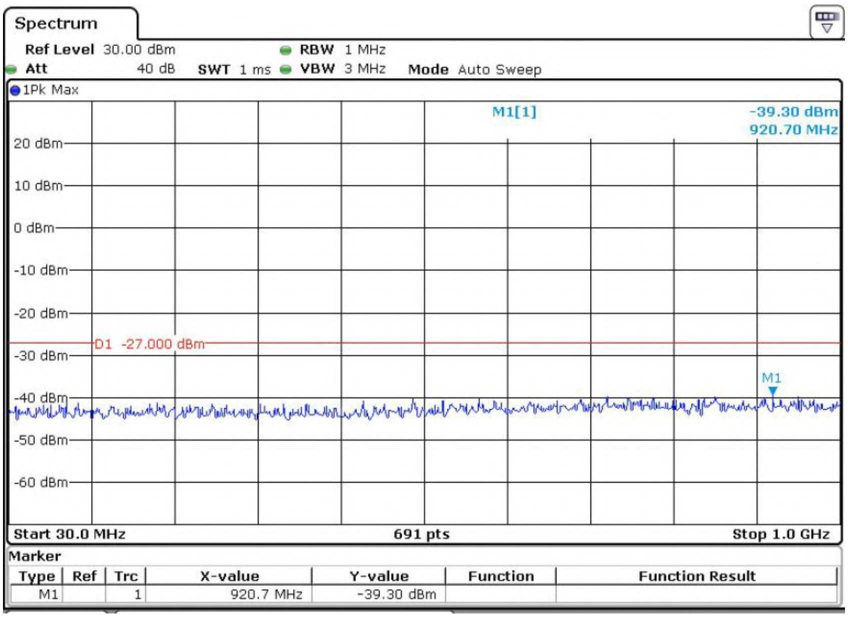

Spectrum
Ref Level 25.00 dBm
Att 40 dB
SWT 102 ms
RBW 1 MHz
VBW 3 MHz
Mode Auto Sweep
1Pk View
M2[1]
-30.54 dBm
15.4480 GHz
M1[1]
6.84 dBm
5.7790 GHz
D1 -27.000 dBm
Start 1.0 GHz
691 pts
Stop 26.5 GHz
Marker
Type | Ref | Trc | X-value | Y-value | Function | Function Result
M1 | | 1 | 5.779 GHz | 6.84 dBm | |
M2 | | 1 | 15.448 GHz | -30.54 dBm | |

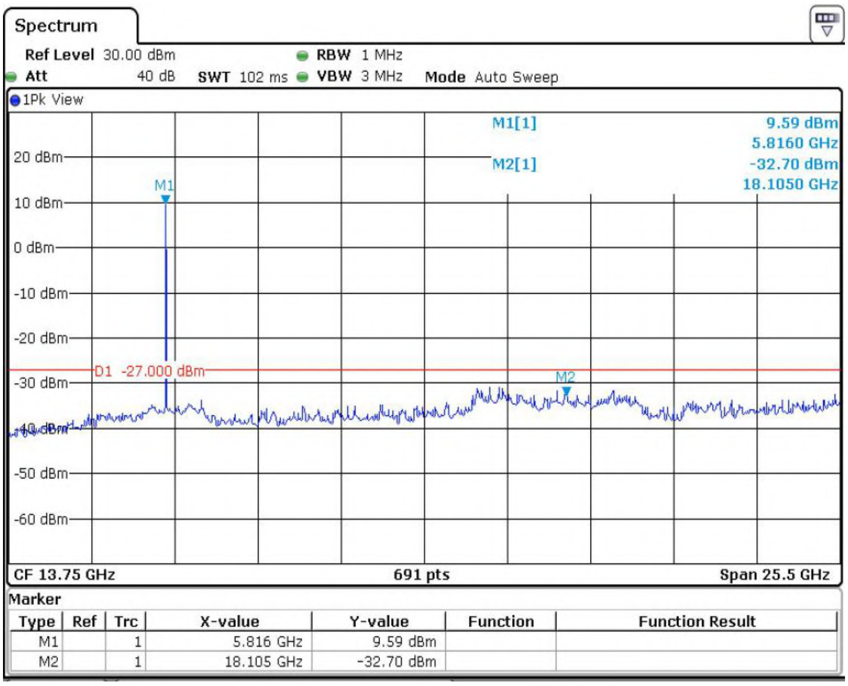
ac20 5.745 GHz



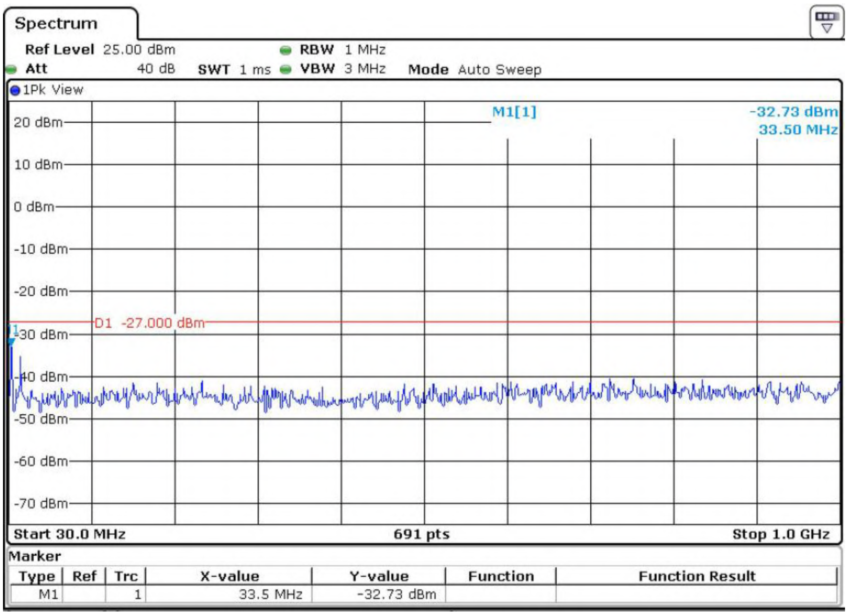


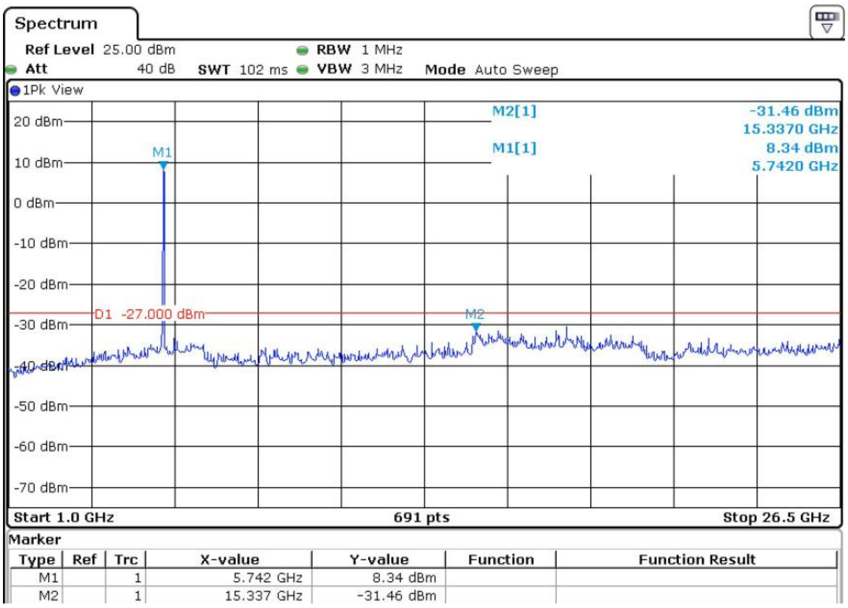
ac20 5.825 GHz



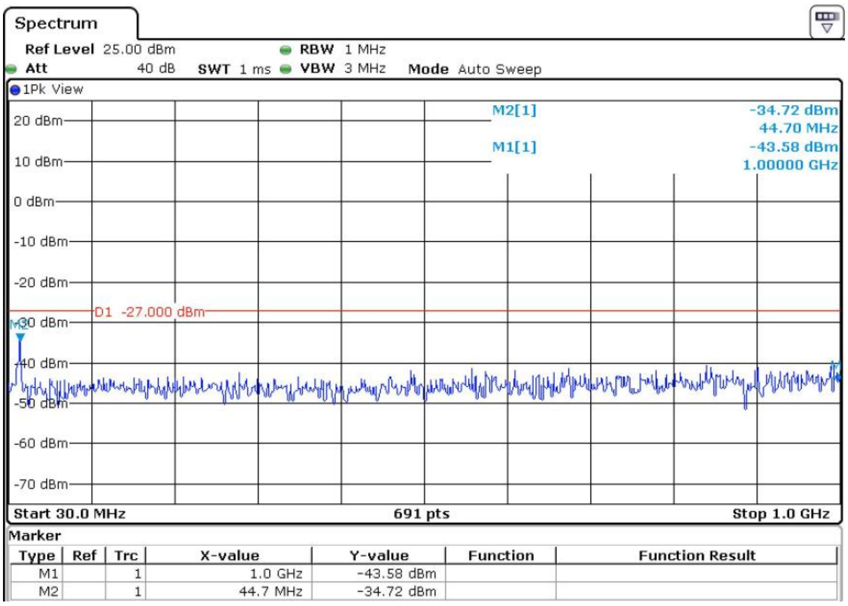


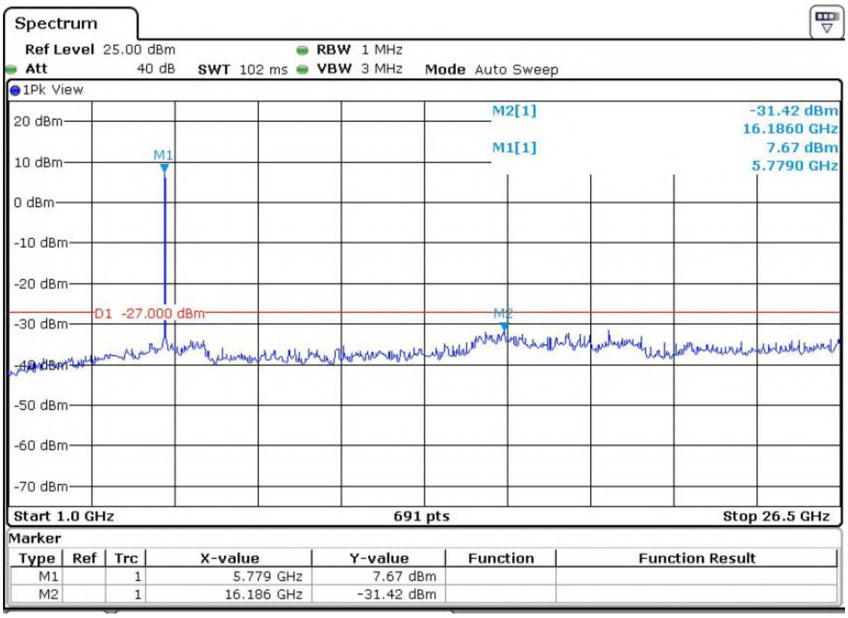
ac40 5.755 GHz





ac40 5.795 GHz





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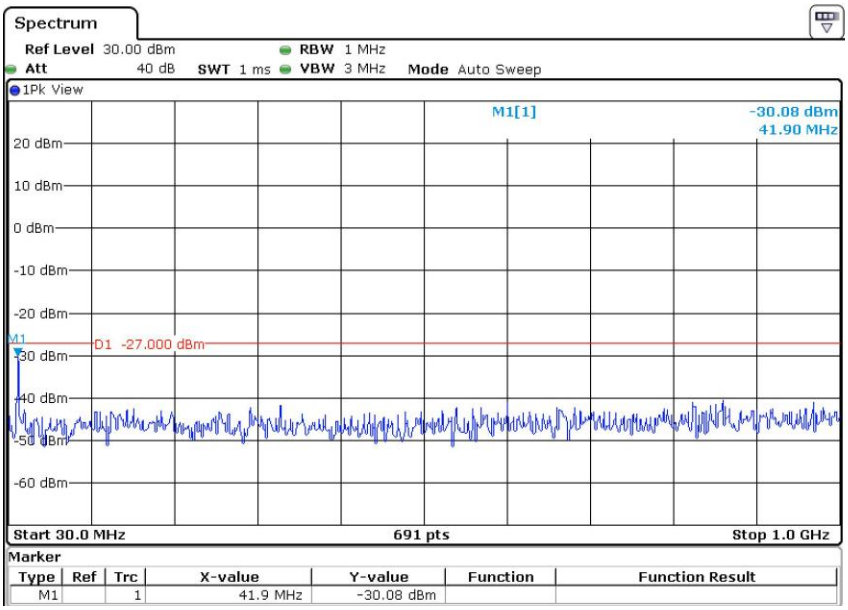
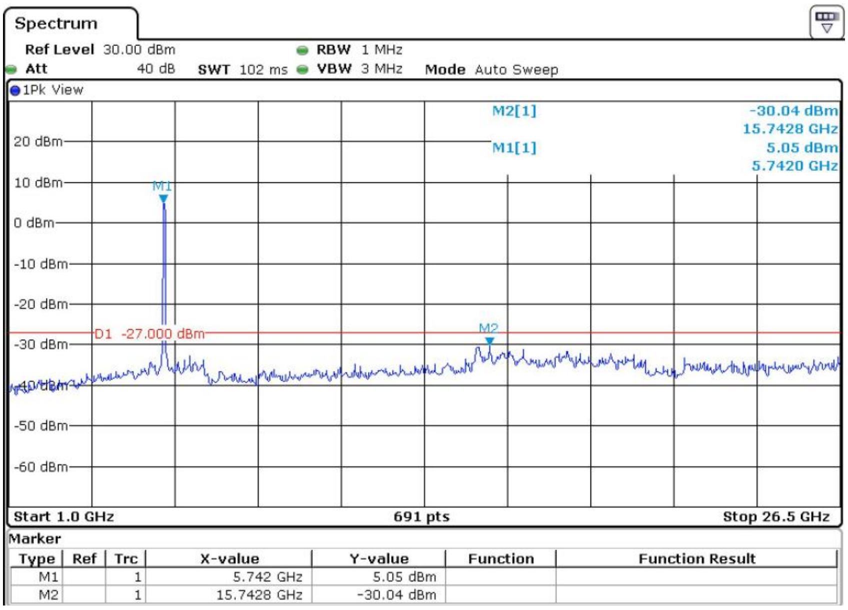
ac80 5.775 GHz





ax20 5.745 GHz