



FCC TEST REPORT

FCC ID: 2ACFQ-ORBITA100

Product	:	Wireless Carplay/Android Auto Adapter
Model Name	:	Orbit A100
Serial model	:	Refer to page6
Brand	:	MyGekoGear/gekogear
Report No.	:	PTC24030500102E-FC04
Prepared for		
ADESSO INC.		
20659 Valley BLVD. Walnut, CA 91789, U.S.A.		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : ADESSO INC.

Address : 20659 Valley BLVD. Walnut, CA 91789, U.S.A.

Manufacture's name : ADESSO ELECTRONICS INC.

Address : No.5, ChengDa East St., Xiagang
Community, Changan, DongGuan, China

Product name : Wireless Carplay/Android Auto Adapter

Model name : Orbit A100

Serial model : Refer to page6

Standards : FCC CFR47 Part 15 Section 15.407

Test procedure : ANSI C63.10:2013

Test Date : Apr. 18, 2024 to May. 21, 2024

Date of Issue : Jun. 25, 2024

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.407(b)	PASS
Emission and Occupied Bandwidth	15.407(a)(e)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Frequency stability	15.407 (g)	PASS
Antenna Requirement	15.203	PASS



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wireless Carplay/Android Auto Adapter
Model Name	:	Orbit A100
Additional model	:	Orbit A200, Orbit A300, Orbit A400, Orbit A500, Orbit A600, Orbit A700, Orbit A800, Orbit A900
Specification	:	802.11a/n HT20/HT40/ac20/ac40
Operation Frequency	:	5G Wi-Fi:5180-5240 MHz 5.8G Wi-Fi:5745MHz~5825MHz
Number of Channel	:	4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40 5180-5240 MHz 2 channels for 802.11n40/ac40 5745MHz~5825MHz
Type of Modulation	:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n/a/ac
Antenna installation	:	PCB Antenna
Antenna Gain	:	5.2G:1.75 dBi 5.8G:1.67 dBi
Power supply	:	DC 5V/100mA
Hardware Version	:	V1.0
Software Version	:	N/A
Test sample No.	:	PTC24030500102E-1/2, PTC24030500102E-2/2



3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 6 Mbps; 802.11n (HT20): MCS0; 802.11ac: MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 a/N20/N40/AC20/AC40

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	46	5230	153	5765
38	5190	48	5240	157	5785
40	5200	149	5745	159	5795
44	5220	151	5755	161	5805
				165	5825



The maximum duty cycle as following table:

Test Mode	Duty Cycle(%)
802.11a	100%
802.11n/ac20	100%
802.11n/ac40	100%

3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



4 Equipment During Test

4.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug.17, 2023	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.17, 2023	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.17, 2023	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.17, 2023	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug. 17,2023	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Aug. 17,2023	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug. 17,2023	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug. 17,2023	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug. 17,2023	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug. 17,2023	1 Year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug. 17,2023	1 Year



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Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug. 17,2023	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jul. 19, 2023	1 Year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jul. 19, 2023	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug. 17,2023	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug. 17,2023	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 17, 2023	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug. 17, 2023	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug. 17, 2023	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug. 16,2023	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 22,2024	1 Year
Test S/W	Tonscend	JS32-CE	/	/	/	/



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(9kHz~30MHz)	±3.15dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~18GHz)	±4.74dB
Radiated Emission(18GHz~40GHz)	±3.20dB



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4.3 Description of Support Units

Equipment	Model No.	Series No.
Notebook	X230	R9PL804A

5 Conducted Emission

Test Requirement:	: FCC CFR 47 Part 15 Section 15.207
Test Method	: ANSI C63.10: 2013
Test Result	: PASS
Frequency Range	: 150kHz to 30MHz
Class/Severity	: Class B

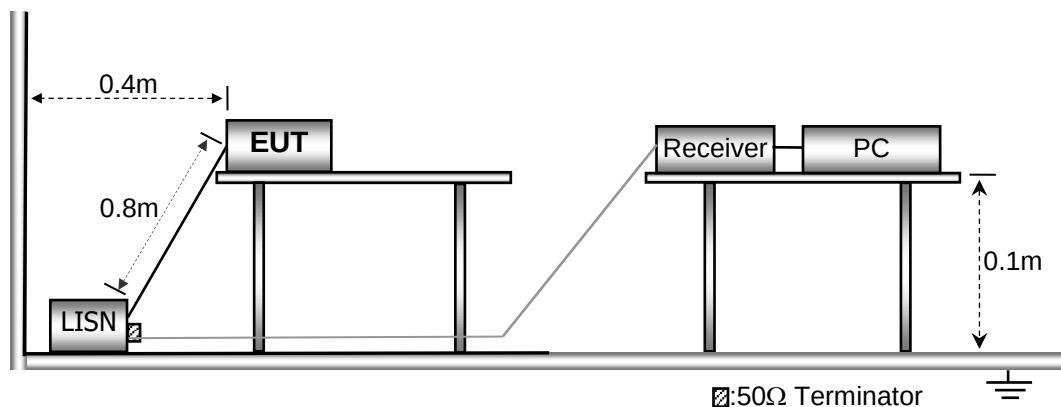
5.1 E.U.T. Operation

Operating Environment :

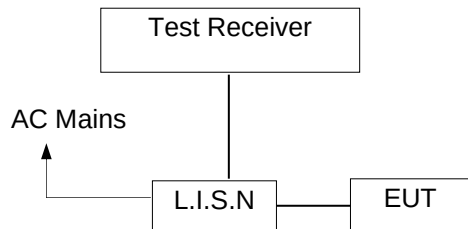
Temperature	: 23.9 °C
Humidity	: 51.4 % RH
Atmospheric Pressure	: 101.21kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.1m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

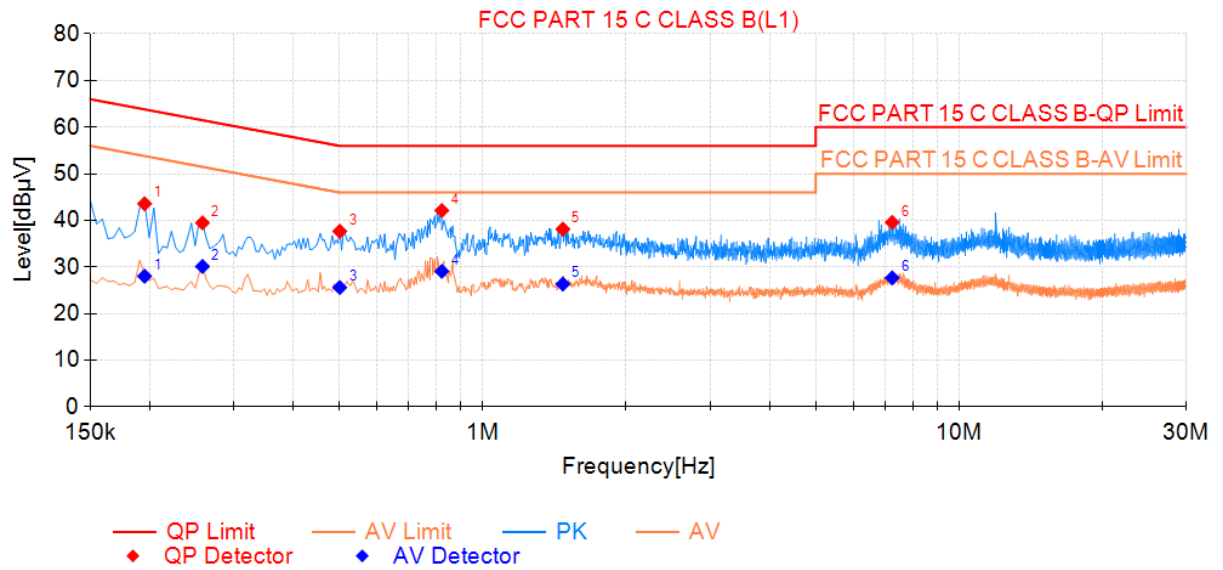
5.7 Conducted Emission Test Result

Pass.

All the modulation modes were tested the data of the worst mode (AC 120V/60Hz, TX 5180MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.



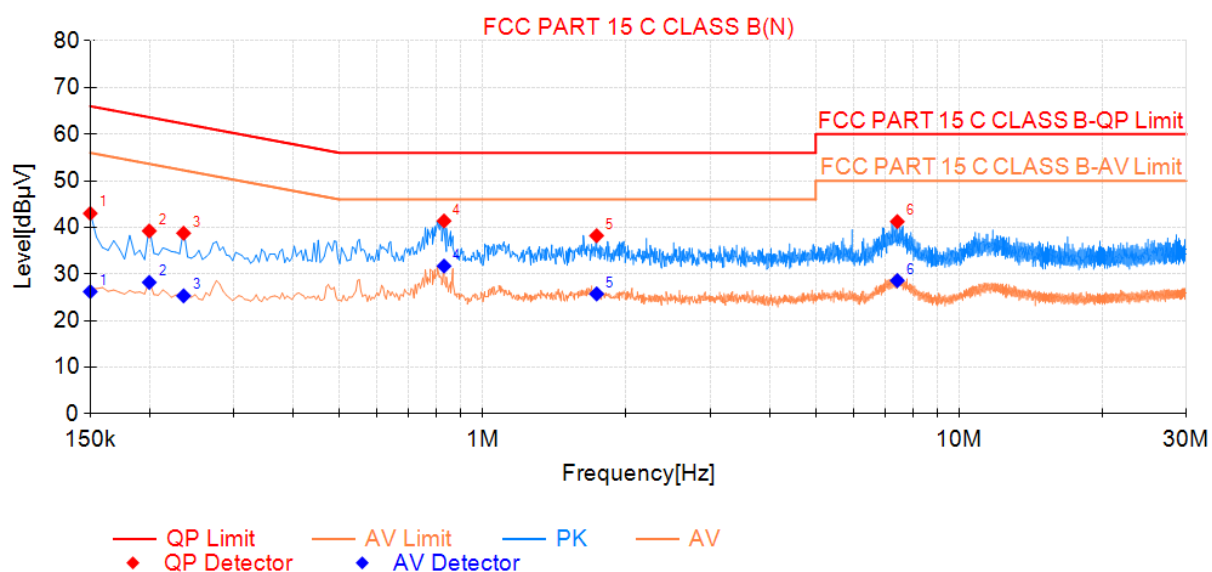
Line-AC 120V/60Hz



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.195	24.41	19.16	43.57	63.82	20.25	8.88	28.04	53.82	25.78	PASS
2	0.258	20.34	19.14	39.48	61.50	22.02	10.99	30.13	51.50	21.37	PASS
3	0.501	18.49	19.19	37.68	56.00	18.32	6.42	25.61	46.00	20.39	PASS
4	0.821	22.87	19.27	42.14	56.00	13.86	9.81	29.08	46.00	16.92	PASS
5	1.473	18.85	19.28	38.13	56.00	17.87	7.07	26.35	46.00	19.65	PASS
6	7.238	20.16	19.43	39.59	60.00	20.41	8.25	27.68	50.00	22.32	PASS

Neutral-AC 120V/60Hz



Final Data List											
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.150	24.02	18.99	43.01	66.00	22.99	7.23	26.22	56.00	29.78	PASS
2	0.200	20.16	19.08	39.24	63.63	24.39	9.14	28.22	53.63	25.41	PASS
3	0.236	19.70	19.06	38.76	62.25	23.49	6.26	25.32	52.25	26.93	PASS
4	0.830	22.14	19.25	41.39	56.00	14.61	12.47	31.72	46.00	14.28	PASS
5	1.734	18.98	19.25	38.23	56.00	17.77	6.48	25.73	46.00	20.27	PASS
6	7.418	21.84	19.42	41.26	60.00	18.74	9.17	28.59	50.00	21.41	PASS

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].



6 Radiated Spurious Emissions

Test Requirement	:	FCC CFR47 Part 15 Section 15.209 & 15.407(b)
Test Method	:	ANSI C63.10:2013
Test Result	:	PASS
Measurement Distance	:	3m

Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Further.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits. As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz



As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

6.1 EUT Operation

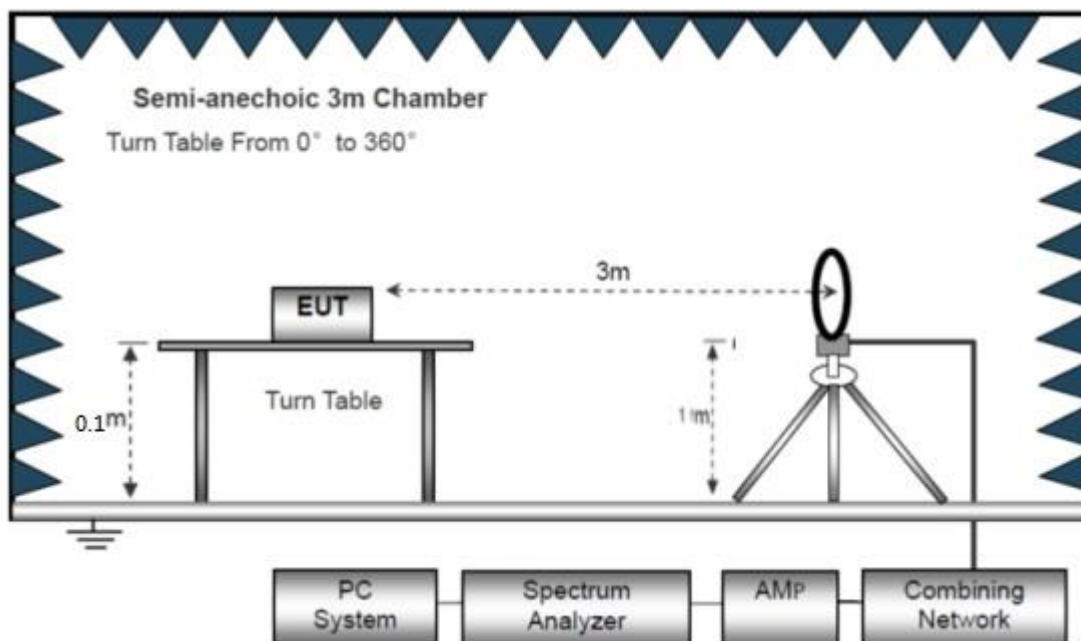
Operating Environment :

Temperature:	:	24.5 °C
Humidity:	:	52 % RH
Atmospheric Pressure:	:	101.3kPa
Test Voltage	:	AC 120V 60Hz

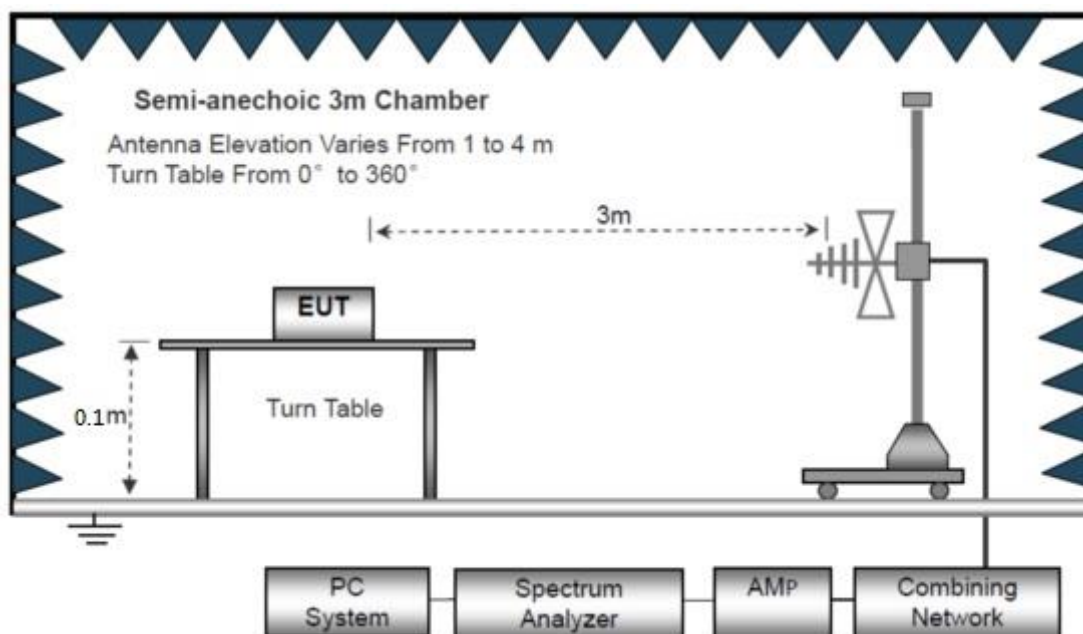
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

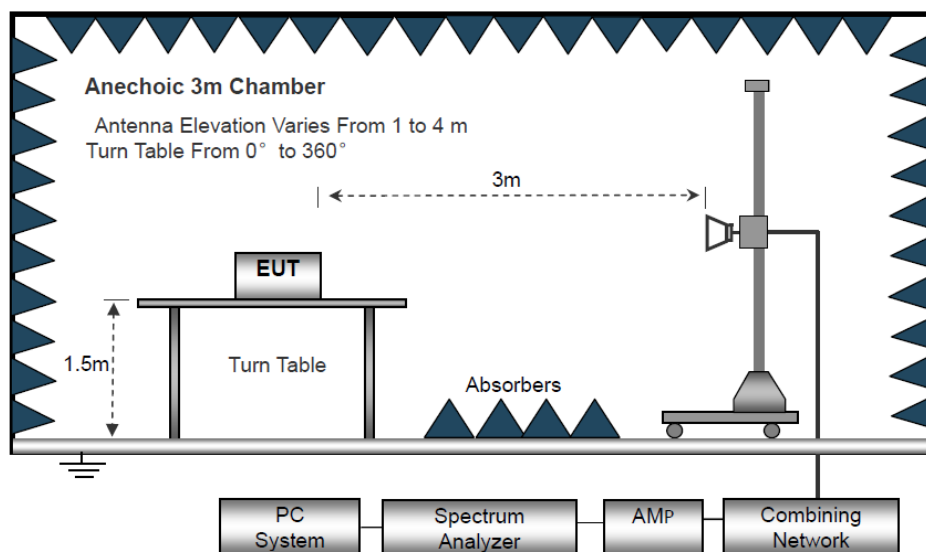
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Receiver Setup	Frequency	Detector	RBW	VBW	Remark
	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value



6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)
--	--	--	--	>20

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);

Limit line = Specific limits (dBuV) + distance extrapolation factor.

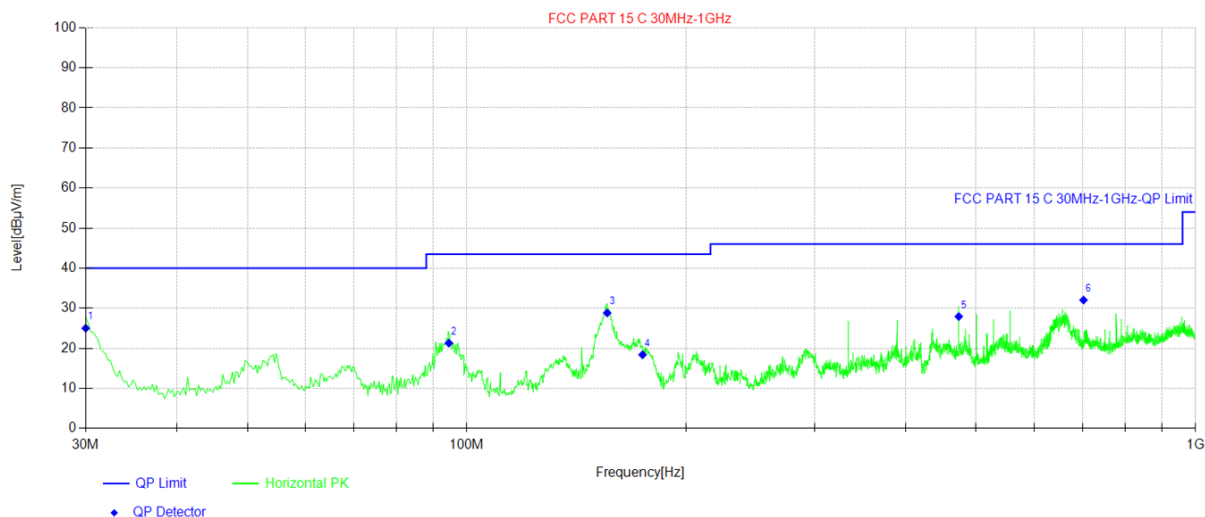
Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (TX 802.11a Channel 36, CH149) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:



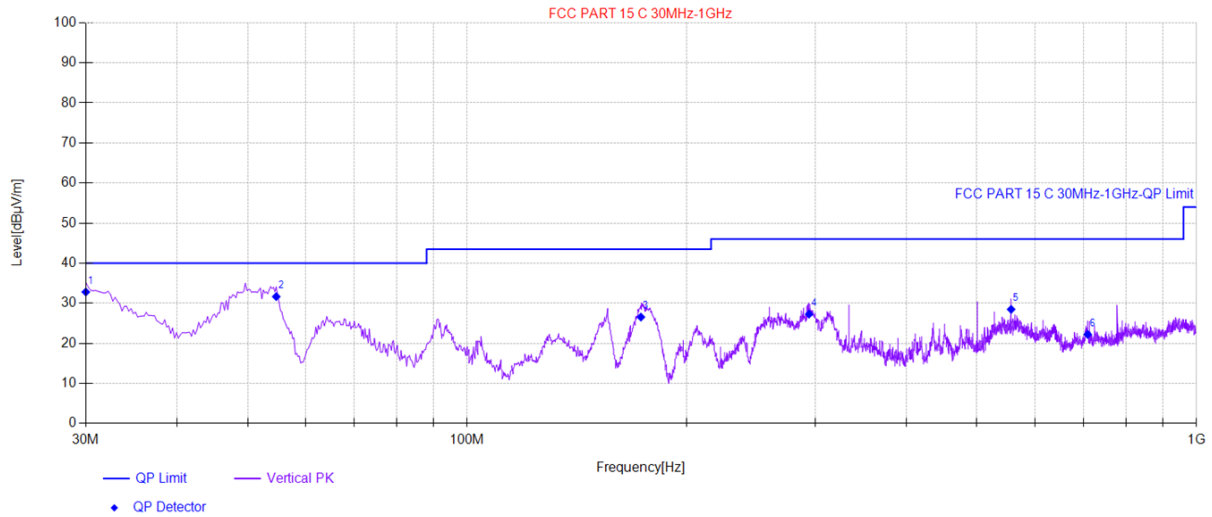
Antenna Polarization: Horizontal(CH36)



Final Data List[QP]							
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.00	43.36	-18.35	25.01	40.00	14.99	Horizontal
2	94.51	41.64	-20.34	21.30	43.50	22.20	Horizontal
3	155.86	44.87	-16.04	28.83	43.50	14.67	Horizontal
4	174.29	35.02	-16.62	18.40	43.50	25.10	Horizontal
5	473.29	39.46	-11.52	27.94	46.00	18.06	Horizontal
6	701.97	38.59	-6.55	32.04	46.00	13.96	Horizontal

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor

Antenna Polarization: Vertical (CH36)



Final Data List[QP]							
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.00	51.16	-18.35	32.81	40.00	7.19	Vertical
2	54.74	49.54	-17.88	31.66	40.00	8.34	Vertical
3	173.08	43.09	-16.53	26.56	43.50	16.94	Vertical
4	294.33	42.98	-15.69	27.29	46.00	18.71	Vertical
5	556.95	37.77	-9.29	28.48	46.00	17.52	Vertical
6	709.24	28.61	-6.38	22.23	46.00	23.77	Vertical

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor
Note: only the worst case recorded in the report.



Test Frequency: From 1GHz to 40GHz

Pre-scan all test modes

Only the worst case Main test data.

802.11a

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.43	35.22	5.36	31.25	56.76	68.2	-11.44	V
15540	42.18	35.96	7.85	30.63	55.36	68.2	-12.84	V
20720	43.19	39.12	8.56	34.95	55.92	68.2	-12.28	V
10360	48.28	34.12	5.36	31.25	56.51	68.2	-11.69	H
15540	42.60	36.52	7.85	30.63	56.34	68.2	-11.86	H
20720	42.59	40.01	8.56	34.95	56.21	68.2	-11.99	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	32.90	35.22	5.36	31.25	42.23	54	-11.77	V
15540	30.60	35.96	7.85	30.63	43.78	54	-10.22	V
20720	28.29	39.12	8.56	34.95	41.02	54	-12.98	V
10360	32.61	34.12	5.36	31.25	40.84	54	-13.16	H
15540	24.64	36.52	7.85	30.63	38.38	54	-15.62	H
20720	27.24	40.01	8.56	34.95	40.86	54	-13.14	H



802.11a

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	47.59	35.63	5.36	31.25	57.33	68.2	-10.87	V
15600	43.05	35.91	7.85	30.63	56.18	68.2	-12.02	V
20800	44.04	39.67	8.56	34.95	57.32	68.2	-10.88	V
10400	47.06	34.25	5.36	31.25	55.42	68.2	-12.78	H
15600	42.23	37.02	7.85	30.63	56.47	68.2	-11.73	H
20800	43.69	38.88	8.56	34.95	56.18	68.2	-12.02	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.63	35.63	5.36	31.25	43.37	54	-10.63	V
15600	29.13	35.91	7.85	30.63	42.26	54	-11.74	V
20800	29.29	39.67	8.56	34.95	42.57	54	-11.43	V
10400	33.11	34.25	5.36	31.25	41.47	54	-12.53	H
15600	28.91	37.02	7.85	30.63	43.15	54	-10.85	H
20800	30.29	38.88	8.56	34.95	42.78	54	-11.22	H



802.11a

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.52	34.68	5.36	31.25	54.31	68.2	-13.89	V
17520	43.40	36.52	7.85	30.63	57.14	68.2	-11.06	V
20960	44.10	38.77	8.56	34.95	56.48	68.2	-11.72	V
10480	47.01	33.99	5.36	31.25	55.11	68.2	-13.09	H
17520	45.48	36.84	7.85	30.63	59.54	68.2	-8.66	H
20960	46.35	39.93	8.56	34.95	59.89	68.2	-8.31	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.53	34.68	5.36	31.25	42.32	54	-11.68	V
17520	28.92	36.52	7.85	30.63	42.66	54	-11.34	V
20960	29.90	38.77	8.56	34.95	42.28	54	-11.72	V
10480	32.46	33.99	5.36	31.25	40.56	54	-13.44	H
17520	27.30	36.84	7.85	30.63	41.36	54	-12.64	H
20960	29.17	39.93	8.56	34.95	42.71	54	-11.29	H



802.11a

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.78	35.26	5.42	31.75	56.71	68.23	-11.52	V
17235	42.25	36.88	7.32	30.96	55.49	68.23	-12.74	V
22980	43.94	39.14	8.85	35.25	56.68	68.23	-11.55	V
11490	49.50	34.21	5.42	31.75	57.38	68.23	-10.85	H
17235	44.05	37.52	7.32	30.96	57.93	68.23	-10.30	H
22980	44.05	39.88	8.85	35.25	57.53	68.23	-10.70	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	32.49	35.26	5.42	31.75	41.42	54	-12.58	V
17235	29.68	36.88	7.32	30.96	42.92	54	-11.08	V
22980	29.56	39.14	8.85	35.25	42.30	54	-11.70	V
11490	31.50	34.21	5.42	31.75	39.38	54	-14.62	H
17235	29.00	37.52	7.32	30.96	42.88	54	-11.12	H
22980	28.88	39.88	8.85	35.25	42.36	54	-11.64	H



802.11a

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.39	35.26	5.42	31.75	57.32	68.23	-10.91	V
17355	44.16	36.88	7.32	30.96	57.40	68.23	-10.83	V
23140	45.18	39.14	8.85	35.25	57.92	68.23	-10.31	V
11570	48.43	34.21	5.42	31.75	56.31	68.23	-11.92	H
17355	42.52	37.52	7.32	30.96	56.40	68.23	-11.83	H
23140	43.12	39.88	8.85	35.25	56.60	68.23	-11.63	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.24	35.26	5.42	31.75	42.17	54	-11.83	V
17355	29.31	36.88	7.32	30.96	42.55	54	-11.45	V
23140	28.68	39.14	8.85	35.25	41.42	54	-12.58	V
11570	34.83	34.21	5.42	31.75	42.71	54	-11.29	H
17355	29.48	37.52	7.32	30.96	43.36	54	-10.64	H
23140	29.59	39.88	8.85	35.25	43.07	54	-10.93	H



802.11a

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.78	35.26	5.42	31.75	57.71	68.23	-10.52	V
17475	44.22	36.88	7.32	30.96	57.46	68.23	-10.77	V
23300	45.81	39.14	8.85	35.25	58.55	68.23	-9.68	V
11650	49.20	34.21	5.42	31.75	57.08	68.23	-11.15	H
17475	44.21	37.52	7.32	30.96	58.09	68.23	-10.14	H
23300	45.22	39.88	8.85	35.25	58.70	68.23	-9.53	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	34.69	34.96	5.42	31.75	43.32	54	-10.68	V
17475	28.79	36.74	7.32	30.96	41.89	54	-12.11	V
23300	30.08	39.14	8.85	35.25	42.82	54	-11.18	V
11650	33.42	34.02	5.42	31.75	41.11	54	-12.89	H
17475	28.75	36.57	7.32	30.96	41.68	54	-12.32	H
23300	28.35	39.88	8.85	35.25	41.83	54	-12.17	H



802.11n20

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	45.48	34.56	5.36	31.25	54.15	68.2	-14.05	V
15540	43.23	36.22	7.85	30.63	56.67	68.2	-11.53	V
20720	44.21	38.97	8.56	34.95	56.79	68.2	-11.41	V
10360	49.18	33.57	5.36	31.25	56.86	68.2	-11.34	H
15540	40.55	36.49	7.85	30.63	54.26	68.2	-13.94	H
20720	41.98	39.92	8.56	34.95	55.51	68.2	-12.69	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	32.24	34.56	5.36	31.25	40.91	54	-13.09	V
15540	29.80	36.22	7.85	30.63	43.24	54	-10.76	V
20720	27.91	38.97	8.56	34.95	40.49	54	-13.51	V
10360	32.38	33.57	5.36	31.25	40.06	54	-13.94	H
15540	26.81	36.49	7.85	30.63	40.52	54	-13.48	H
20720	28.22	39.92	8.56	34.95	41.75	54	-12.25	H



802.11n20

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	48.62	34.63	5.36	31.25	57.36	68.2	-10.84	V
15600	44.54	36.42	7.85	30.63	58.18	68.2	-10.02	V
20800	45.09	38.81	8.56	34.95	57.51	68.2	-10.69	V
10400	47.61	33.93	5.36	31.25	55.65	68.2	-12.55	H
15600	43.39	36.55	7.85	30.63	57.16	68.2	-11.04	H
20800	44.39	39.94	8.56	34.95	57.94	68.2	-10.26	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	32.61	34.63	5.36	31.25	41.35	54	-12.65	V
15600	28.65	36.42	7.85	30.63	42.29	54	-11.71	V
20800	29.11	38.81	8.56	34.95	41.53	54	-12.47	V
10400	33.64	33.93	5.36	31.25	41.68	54	-12.32	H
15600	28.70	36.55	7.85	30.63	42.47	54	-11.53	H
20800	29.79	39.94	8.56	34.95	43.34	54	-10.66	H



802.11n20

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.65	34.68	5.36	31.25	54.44	68.2	-13.76	V
17520	44.75	36.52	7.85	30.63	58.49	68.2	-9.71	V
20960	43.22	38.77	8.56	34.95	55.60	68.2	-12.60	V
10480	46.38	33.99	5.36	31.25	54.48	68.2	-13.72	H
17520	46.06	36.84	7.85	30.63	60.12	68.2	-8.08	H
20960	44.36	39.93	8.56	34.95	57.90	68.2	-10.30	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	31.63	34.68	5.36	31.25	40.42	54	-13.58	V
17520	27.59	36.52	7.85	30.63	41.33	54	-12.67	V
20960	28.51	38.77	8.56	34.95	40.89	54	-13.11	V
10480	30.54	33.99	5.36	31.25	38.64	54	-15.36	H
17520	27.55	36.84	7.85	30.63	41.61	54	-12.39	H
20960	29.61	39.93	8.56	34.95	43.15	54	-10.85	H



802.11n20

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	49.48	35.26	5.42	31.75	58.41	68.23	-9.82	V
17235	42.87	36.88	7.32	30.96	56.11	68.23	-12.12	V
22980	43.19	39.14	8.85	35.25	55.93	68.23	-12.30	V
11490	49.16	34.21	5.42	31.75	57.04	68.23	-11.19	H
17235	43.94	37.52	7.32	30.96	57.82	68.23	-10.41	H
22980	45.00	39.88	8.85	35.25	58.48	68.23	-9.75	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	33.71	35.26	5.42	31.75	42.64	54	-11.36	V
17235	29.97	36.88	7.32	30.96	43.21	54	-10.79	V
22980	29.48	39.14	8.85	35.25	42.22	54	-11.78	V
11490	32.96	34.21	5.42	31.75	40.84	54	-13.16	H
17235	28.60	37.52	7.32	30.96	42.48	54	-11.52	H
22980	29.36	39.88	8.85	35.25	42.84	54	-11.16	H



802.11n20

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	45.79	35.26	5.42	31.75	54.72	68.23	-13.51	V
17355	44.18	36.88	7.32	30.96	57.42	68.23	-10.81	V
23140	45.04	39.14	8.85	35.25	57.78	68.23	-10.45	V
11570	48.10	34.21	5.42	31.75	55.98	68.23	-12.25	H
17355	42.78	37.52	7.32	30.96	56.66	68.23	-11.57	H
23140	41.87	39.88	8.85	35.25	55.35	68.23	-12.88	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.37	35.26	5.42	31.75	42.30	54	-11.70	V
17355	30.15	36.88	7.32	30.96	43.39	54	-10.61	V
23140	29.24	39.14	8.85	35.25	41.98	54	-12.02	V
11570	33.59	34.21	5.42	31.75	41.47	54	-12.53	H
17355	29.69	37.52	7.32	30.96	43.57	54	-10.43	H
23140	29.46	39.88	8.85	35.25	42.94	54	-11.06	H



802.11n20

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	47.74	35.26	5.42	31.75	56.67	68.23	-11.56	V
17475	44.71	36.88	7.32	30.96	57.95	68.23	-10.28	V
23300	45.33	39.14	8.85	35.25	58.07	68.23	-10.16	V
11650	49.05	34.21	5.42	31.75	56.93	68.23	-11.30	H
17475	44.36	37.52	7.32	30.96	58.24	68.23	-9.99	H
23300	45.62	39.88	8.85	35.25	59.10	68.23	-9.13	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	35.40	35.26	5.42	31.75	44.33	54	-9.67	V
17475	29.22	36.88	7.32	30.96	42.46	54	-11.54	V
23300	27.71	39.14	8.85	35.25	40.45	54	-13.55	V
11650	32.89	34.21	5.42	31.75	40.77	54	-13.23	H
17475	28.59	37.52	7.32	30.96	42.47	54	-11.53	H
23300	28.97	39.88	8.85	35.25	42.45	54	-11.55	H



802.11ac20

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.08	35.22	5.36	31.25	56.41	68.2	-11.79	V
15540	41.97	35.96	7.85	30.63	55.15	68.2	-13.05	V
20720	43.14	39.12	8.56	34.95	55.87	68.2	-12.33	V
10360	48.51	34.12	5.36	31.25	56.74	68.2	-11.46	H
15540	42.59	36.52	7.85	30.63	56.33	68.2	-11.87	H
20720	42.62	40.01	8.56	34.95	56.24	68.2	-11.96	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	33.14	35.22	5.36	31.25	42.47	54	-11.53	V
15540	30.38	35.96	7.85	30.63	43.56	54	-10.44	V
20720	27.89	39.12	8.56	34.95	40.62	54	-13.38	V
10360	32.54	34.12	5.36	31.25	40.77	54	-13.23	H
15540	24.88	36.52	7.85	30.63	38.62	54	-15.38	H
20720	27.37	40.01	8.56	34.95	40.99	54	-13.01	H



802.11ac20

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	47.94	35.63	5.36	31.25	57.68	68.2	-10.52	V
15600	43.17	35.91	7.85	30.63	56.30	68.2	-11.90	V
20800	44.43	39.67	8.56	34.95	57.71	68.2	-10.49	V
10400	47.00	34.25	5.36	31.25	55.36	68.2	-12.84	H
15600	41.82	37.02	7.85	30.63	56.06	68.2	-12.14	H
20800	43.15	38.88	8.56	34.95	55.64	68.2	-12.56	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.46	35.63	5.36	31.25	43.20	54	-10.80	V
15600	28.63	35.91	7.85	30.63	41.76	54	-12.24	V
20800	29.37	39.67	8.56	34.95	42.65	54	-11.35	V
10400	33.07	34.25	5.36	31.25	41.43	54	-12.57	H
15600	28.94	37.02	7.85	30.63	43.18	54	-10.82	H
20800	30.00	38.88	8.56	34.95	42.49	54	-11.51	H



802.11ac20

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.70	34.68	5.36	31.25	54.49	68.2	-13.71	V
17520	43.28	36.52	7.85	30.63	57.02	68.2	-11.18	V
20960	43.92	38.77	8.56	34.95	56.30	68.2	-11.90	V
10480	47.00	33.99	5.36	31.25	55.10	68.2	-13.10	H
17520	45.38	36.84	7.85	30.63	59.44	68.2	-8.76	H
20960	46.18	39.93	8.56	34.95	59.72	68.2	-8.48	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.58	34.68	5.36	31.25	42.37	54	-11.63	V
17520	29.25	36.52	7.85	30.63	42.99	54	-11.01	V
20960	29.74	38.77	8.56	34.95	42.12	54	-11.88	V
10480	32.40	33.99	5.36	31.25	40.50	54	-13.50	H
17520	26.97	36.84	7.85	30.63	41.03	54	-12.97	H
20960	28.99	39.93	8.56	34.95	42.53	54	-11.47	H



802.11ac20

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.55	35.26	5.42	31.75	56.48	68.23	-11.75	V
17235	42.31	36.88	7.32	30.96	55.55	68.23	-12.68	V
22980	43.98	39.14	8.85	35.25	56.72	68.23	-11.51	V
11490	49.63	34.21	5.42	31.75	57.51	68.23	-10.72	H
17235	44.12	37.52	7.32	30.96	58.00	68.23	-10.23	H
22980	44.60	39.88	8.85	35.25	58.08	68.23	-10.15	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	32.31	35.26	5.42	31.75	41.24	54	-12.76	V
17235	29.72	36.88	7.32	30.96	42.96	54	-11.04	V
22980	29.85	39.14	8.85	35.25	42.59	54	-11.41	V
11490	31.51	34.21	5.42	31.75	39.39	54	-14.61	H
17235	28.69	37.52	7.32	30.96	42.57	54	-11.43	H
22980	29.28	39.88	8.85	35.25	42.76	54	-11.24	H



802.11ac20

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.45	35.26	5.42	31.75	57.38	68.23	-10.85	V
17355	44.43	36.88	7.32	30.96	57.67	68.23	-10.56	V
23140	45.34	39.14	8.85	35.25	58.08	68.23	-10.15	V
11570	48.43	34.21	5.42	31.75	56.31	68.23	-11.92	H
17355	42.33	37.52	7.32	30.96	56.21	68.23	-12.02	H
23140	43.37	39.88	8.85	35.25	56.85	68.23	-11.38	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.45	35.26	5.42	31.75	42.38	54	-11.62	V
17355	29.25	36.88	7.32	30.96	42.49	54	-11.51	V
23140	28.45	39.14	8.85	35.25	41.19	54	-12.81	V
11570	34.33	34.21	5.42	31.75	42.21	54	-11.79	H
17355	29.28	37.52	7.32	30.96	43.16	54	-10.84	H
23140	29.17	39.88	8.85	35.25	42.65	54	-11.35	H



802.11ac20

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.32	35.26	5.42	31.75	57.25	68.23	-10.98	V
17475	44.30	36.88	7.32	30.96	57.54	68.23	-10.69	V
23300	45.35	39.14	8.85	35.25	58.09	68.23	-10.14	V
11650	49.12	34.21	5.42	31.75	57.00	68.23	-11.23	H
17475	44.14	37.52	7.32	30.96	58.02	68.23	-10.21	H
23300	45.23	39.88	8.85	35.25	58.71	68.23	-9.52	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	34.54	35.26	5.42	31.75	43.47	54	-10.53	V
17475	28.73	36.88	7.32	30.96	41.97	54	-12.03	V
23300	30.02	39.14	8.85	35.25	42.76	54	-11.24	V
11650	33.84	34.21	5.42	31.75	41.72	54	-12.28	H
17475	28.41	37.52	7.32	30.96	42.29	54	-11.71	H
23300	28.29	39.88	8.85	35.25	41.77	54	-12.23	H



802.11n40

Test Mode:5190					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	47.71	35.26	5.42	31.75	56.64	68.2	-11.56	V
15570	44.54	36.88	7.32	30.96	57.78	68.2	-10.42	V
20760	45.12	39.14	8.85	35.25	57.86	68.2	-10.34	V
10380	49.50	34.21	5.42	31.75	57.38	68.2	-10.82	H
15570	44.50	37.52	7.32	30.96	58.38	68.2	-9.82	H
20760	45.57	39.88	8.85	35.25	59.05	68.2	-9.15	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	35.63	35.26	5.42	31.75	44.56	54	-9.44	V
15570	29.06	36.88	7.32	30.96	42.30	54	-11.70	V
20760	27.62	39.14	8.85	35.25	40.36	54	-13.64	V
10380	33.07	34.21	5.42	31.75	40.95	54	-13.05	H
15570	28.61	37.52	7.32	30.96	42.49	54	-11.51	H
20760	28.82	39.88	8.85	35.25	42.30	54	-11.70	H



802.11n40

Test Mode:5230					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	47.60	35.26	5.42	31.75	56.53	68.2	-11.67	V
15690	44.65	36.88	7.32	30.96	57.89	68.2	-10.31	V
20920	44.97	39.14	8.85	35.25	57.71	68.2	-10.49	V
10460	49.09	34.21	5.42	31.75	56.97	68.2	-11.23	H
15690	44.36	37.52	7.32	30.96	58.24	68.2	-9.96	H
20920	45.28	39.88	8.85	35.25	58.76	68.2	-9.44	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	35.60	35.26	5.42	31.75	44.53	54	-9.47	V
15690	28.75	36.88	7.32	30.96	41.99	54	-12.01	V
20920	27.87	39.14	8.85	35.25	40.61	54	-13.39	V
10460	33.39	34.21	5.42	31.75	41.27	54	-12.73	H
15690	28.82	37.52	7.32	30.96	42.70	54	-11.30	H
20920	28.88	39.88	8.85	35.25	42.36	54	-11.64	H



802.11ac40

Test Mode:5190					Test channel:LOW			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	47.46	35.26	5.42	31.75	56.39	68.2	-11.81	V
15570	44.44	36.88	7.32	30.96	57.68	68.2	-10.52	V
20760	45.21	39.14	8.85	35.25	57.95	68.2	-10.25	V
10380	49.21	34.21	5.42	31.75	57.09	68.2	-11.11	H
15570	44.84	37.52	7.32	30.96	58.72	68.2	-9.48	H
20760	45.28	39.88	8.85	35.25	58.76	68.2	-9.44	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	35.67	35.26	5.42	31.75	44.60	54	-9.40	V
15570	29.04	36.88	7.32	30.96	42.28	54	-11.72	V
20760	27.95	39.14	8.85	35.25	40.69	54	-13.31	V
10380	32.90	34.21	5.42	31.75	40.78	54	-13.22	H
15570	28.62	37.52	7.32	30.96	42.50	54	-11.50	H
20760	29.08	39.88	8.85	35.25	42.56	54	-11.44	H



802.11ac40

Test Mode:5230					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	47.58	35.26	5.42	31.75	56.51	68.2	-11.69	V
15690	44.30	36.88	7.32	30.96	57.54	68.2	-10.66	V
20920	44.80	39.14	8.85	35.25	57.54	68.2	-10.66	V
10460	49.22	34.21	5.42	31.75	57.10	68.2	-11.10	H
15690	44.65	37.52	7.32	30.96	58.53	68.2	-9.67	H
20920	45.13	39.88	8.85	35.25	58.61	68.2	-9.59	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	35.76	35.26	5.42	31.75	44.69	54	-9.31	V
15690	28.78	36.88	7.32	30.96	42.02	54	-11.98	V
20920	27.78	39.14	8.85	35.25	40.52	54	-13.48	V
10460	33.19	34.21	5.42	31.75	41.07	54	-12.93	H
15690	28.64	37.52	7.32	30.96	42.52	54	-11.48	H
20920	28.80	39.88	8.85	35.25	42.28	54	-11.72	H

Note:

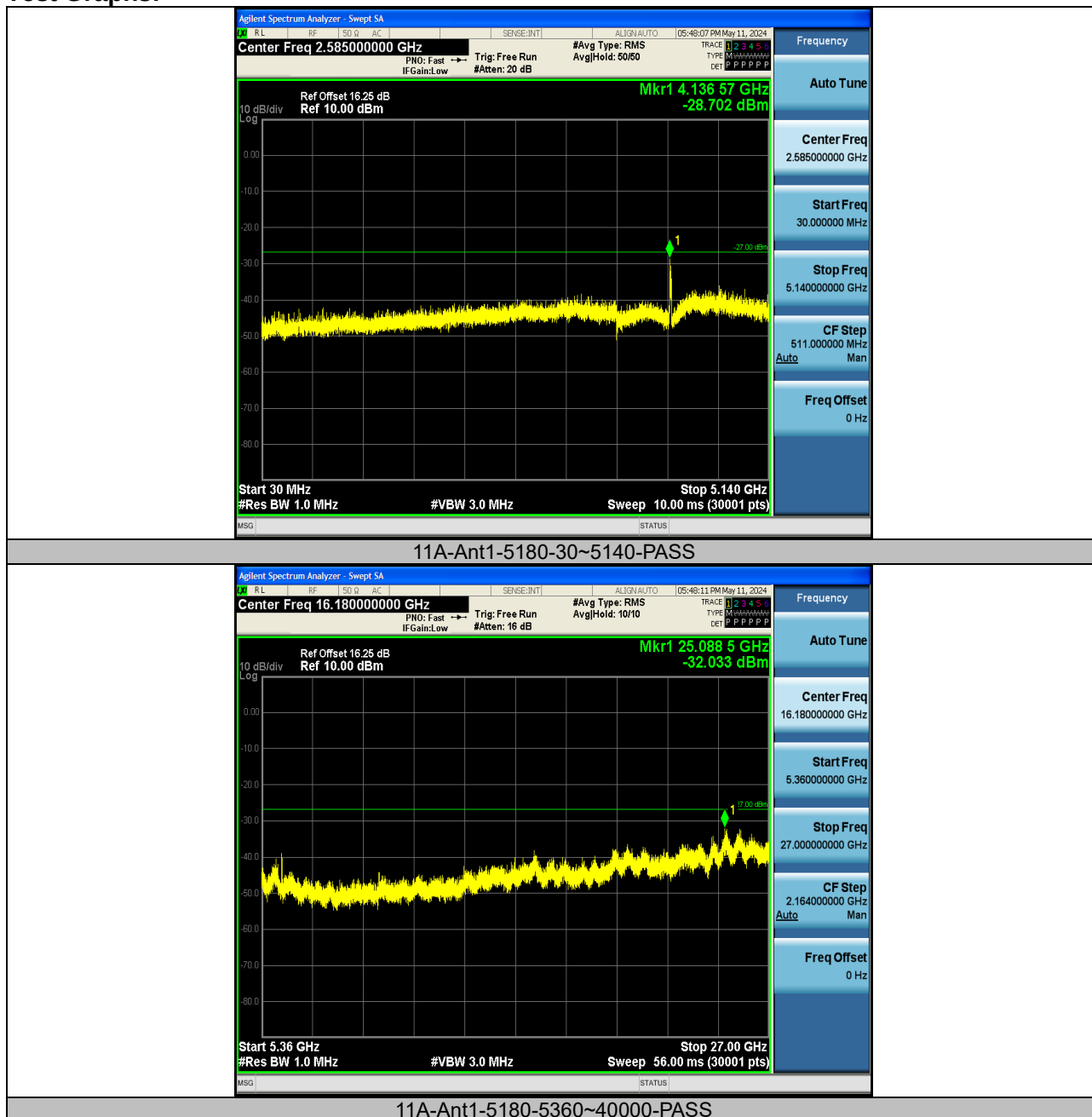
1. The testing has been conformed to 10*5825MHz=58250MHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

**Undesirable emission**

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4136.57	-28.7	≤-27	PASS
11A	Ant1	5180	5360~40000	25088.47	-32.03	≤-27	PASS
11A	Ant1	5200	30~5140	4153.43	-28.54	≤-27	PASS
11A	Ant1	5200	5360~40000	25714.58	-32.4	≤-27	PASS
11A	Ant1	5240	30~5140	4184.94	-28.21	≤-27	PASS
11A	Ant1	5240	5360~40000	25752.81	-31.88	≤-27	PASS
11A	Ant1	5745	30~5650	4589.69	-28.8	≤-27	PASS
11A	Ant1	5745	5925~40000	25689.14	-29.45	≤-27	PASS
11A	Ant1	5785	30~5650	4628.28	-27.68	≤-27	PASS
11A	Ant1	5785	5925~40000	25694.76	-29.76	≤-27	PASS
11A	Ant1	5825	30~5650	4660.13	-27.83	≤-27	PASS
11A	Ant1	5825	5925~40000	25809.97	-29.51	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	4136.06	-27.82	≤-27	PASS
11N20SISO	Ant1	5180	5360~40000	25795.37	-32.84	≤-27	PASS
11N20SISO	Ant1	5200	30~5140	4153.77	-28.46	≤-27	PASS
11N20SISO	Ant1	5200	5360~40000	26236.83	-32.62	≤-27	PASS
11N20SISO	Ant1	5240	30~5140	4183.92	-28.03	≤-27	PASS
11N20SISO	Ant1	5240	5360~40000	25723.96	-31.94	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	4588.94	-28.52	≤-27	PASS
11N20SISO	Ant1	5745	5925~40000	25660.33	-30.28	≤-27	PASS
11N20SISO	Ant1	5785	30~5650	4628.1	-28.32	≤-27	PASS
11N20SISO	Ant1	5785	5925~40000	25778.35	-29.31	≤-27	PASS
11N20SISO	Ant1	5825	30~5650	4660.13	-27.78	≤-27	PASS
11N20SISO	Ant1	5825	5925~40000	25670.17	-29.13	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	4167.91	-28.23	≤-27	PASS
11N40SISO	Ant1	5190	5360~40000	25163.49	-32.49	≤-27	PASS
11N40SISO	Ant1	5230	30~5140	4169.61	-28.28	≤-27	PASS
11N40SISO	Ant1	5230	5360~40000	25741.27	-32.78	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4136.74	-27.32	≤-27	PASS
11AC20SISO	Ant1	5180	5360~40000	25081.97	-32.39	≤-27	PASS
11AC20SISO	Ant1	5200	30~5140	4152.41	-28.77	≤-27	PASS
11AC20SISO	Ant1	5200	5360~40000	25227.68	-31.97	≤-27	PASS
11AC20SISO	Ant1	5240	30~5140	4184.09	-27.38	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	4587.07	-27.72	≤-27	PASS
11N40SISO	Ant1	5755	5925~40000	25682.11	-28.38	≤-27	PASS
11N40SISO	Ant1	5795	30~5650	4636.15	-28.61	≤-27	PASS
11N40SISO	Ant1	5795	5925~40000	25096.93	-29.37	≤-27	PASS
11AC20SISO	Ant1	5240	5360~40000	25721.8	-31.72	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4595.88	-28.22	≤-27	PASS
11AC20SISO	Ant1	5745	5925~40000	25691.95	-29.24	≤-27	PASS
11AC20SISO	Ant1	5785	30~5650	4628.28	-28.49	≤-27	PASS
11AC20SISO	Ant1	5785	5925~40000	25184.74	-30.15	≤-27	PASS
11AC20SISO	Ant1	5825	30~5650	4660.13	-27.78	≤-27	PASS
11AC20SISO	Ant1	5825	5925~40000	25750.25	-28.88	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	4168.42	-28.91	≤-27	PASS
11AC40SISO	Ant1	5190	5360~40000	25705.93	-32.58	≤-27	PASS
11AC40SISO	Ant1	5230	30~5140	4167.4	-29.02	≤-27	PASS
11AC40SISO	Ant1	5230	5360~40000	25175.75	-31.78	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	4604.12	-27.26	≤-27	PASS
11AC40SISO	Ant1	5755	5925~40000	25181.93	-29.73	≤-27	PASS
11AC40SISO	Ant1	5795	30~5650	4635.96	-28.93	≤-27	PASS
11AC40SISO	Ant1	5795	5925~40000	25706.7	-28.88	≤-27	PASS

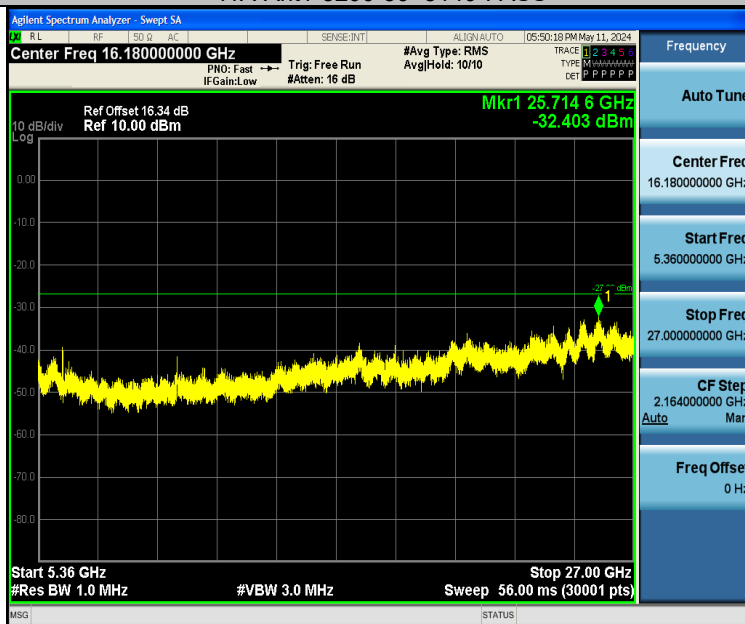


Test Graphs:





11A-Ant1-5200-30~5140-PASS



11A-Ant1-5200-5360~40000-PASS



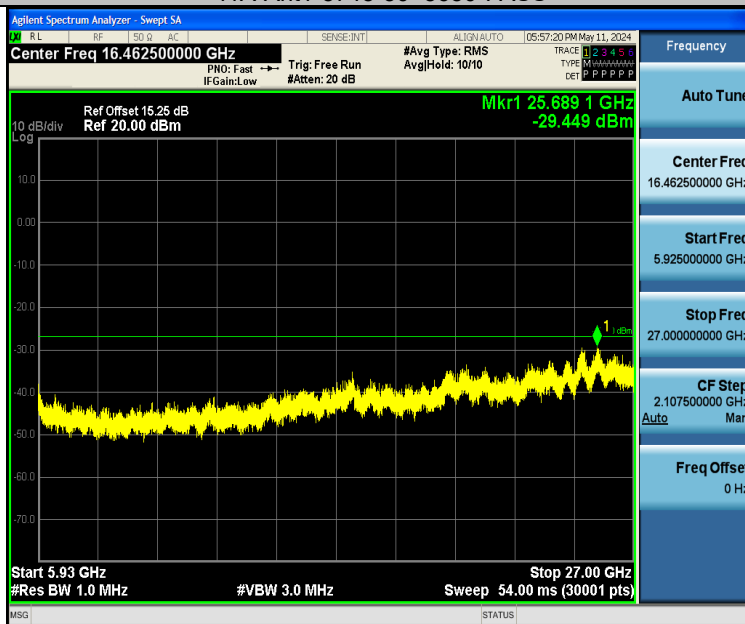
11A-Ant1-5240-30~5140-PASS



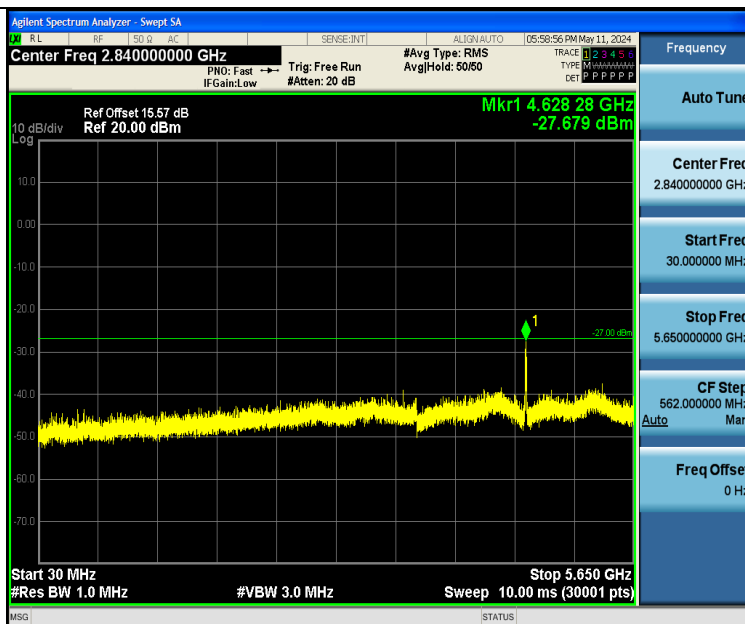
11A-Ant1-5240-5360~40000-PASS



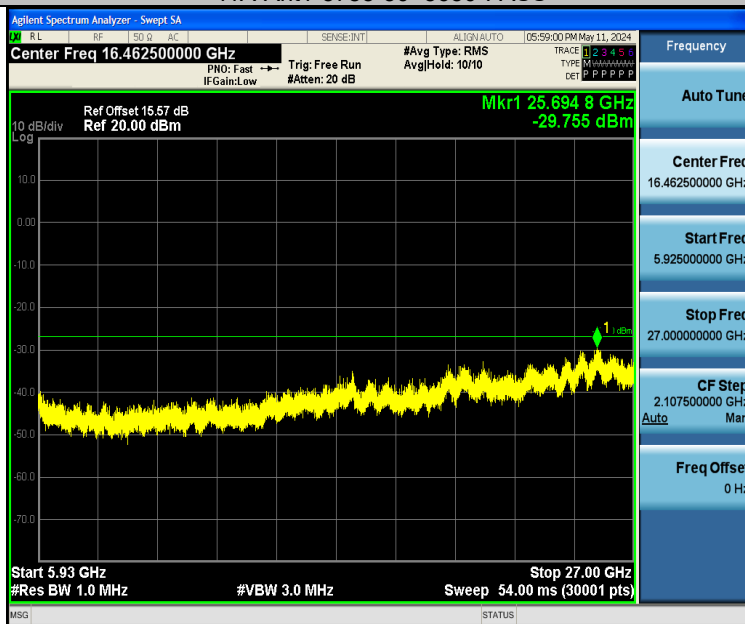
11A-Ant1-5745-30~5650-PASS



11A-Ant1-5745-5925~40000-PASS



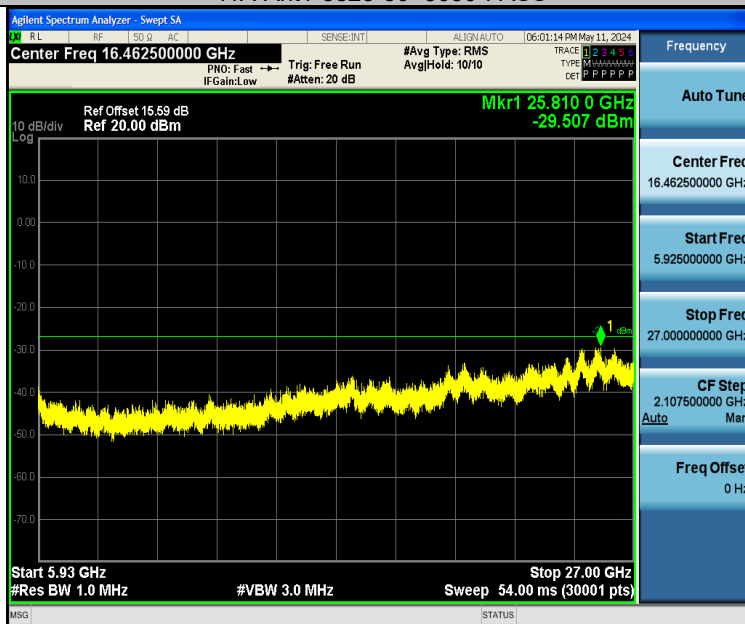
11A-Ant1-5785-30~5650-PASS



11A-Ant1-5785-5925~40000-PASS



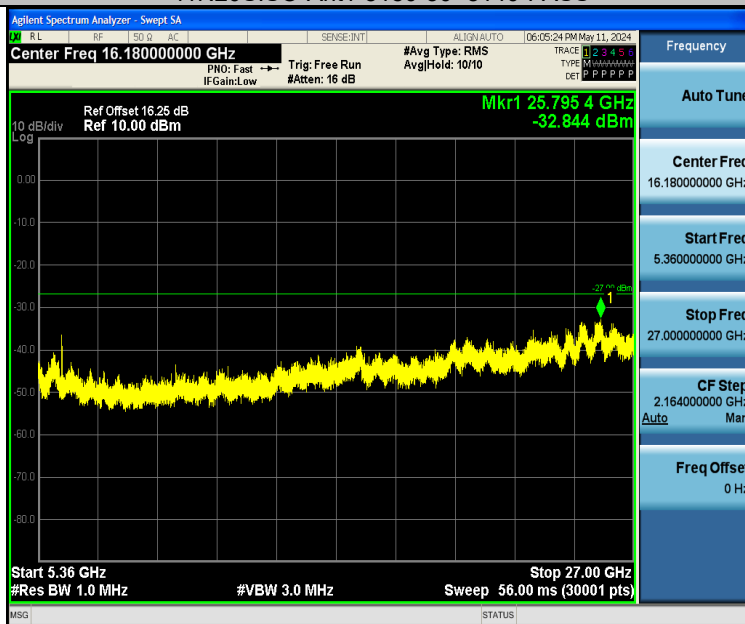
11A-Ant1-5825-30~5650-PASS



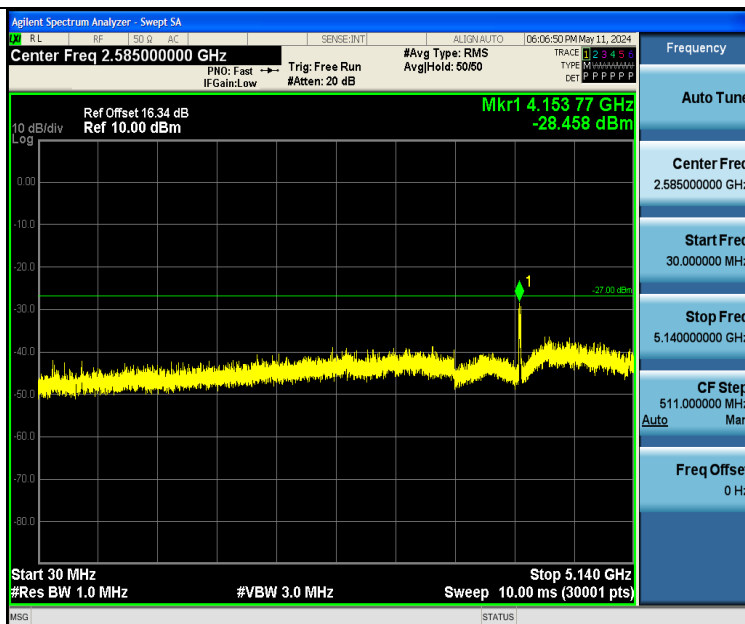
11A-Ant1-5825-5925~40000-PASS



11N20SISO-Ant1-5180-30~5140-PASS



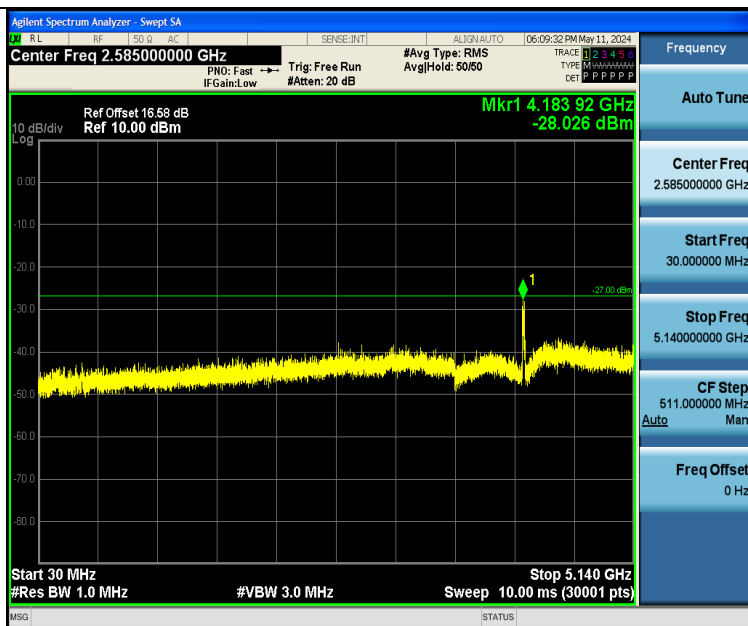
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11N20SISO-Ant1-5200-30~5140-PASS



11N20SISO-Ant1-5200-5360~40000-PASS



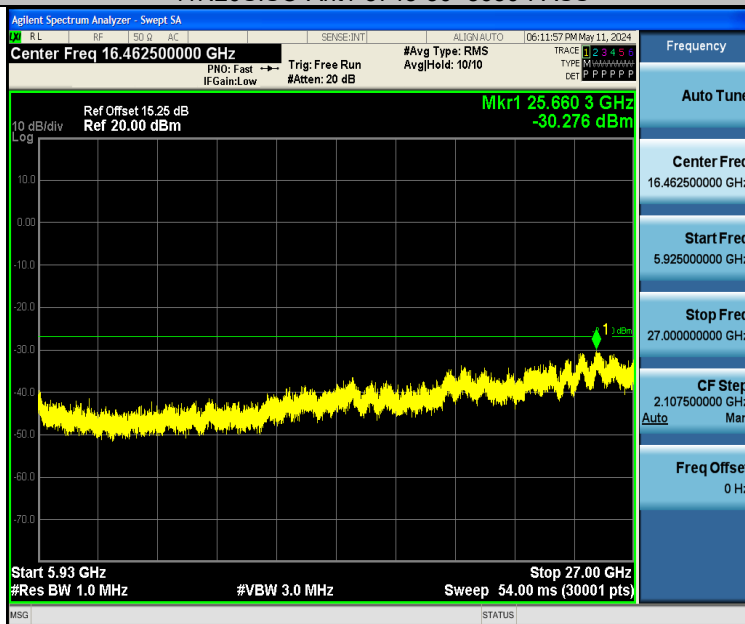
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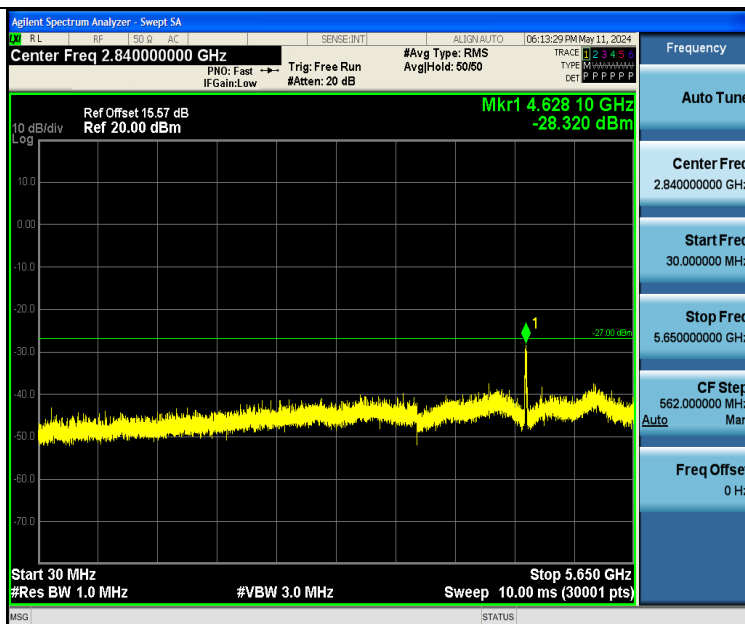
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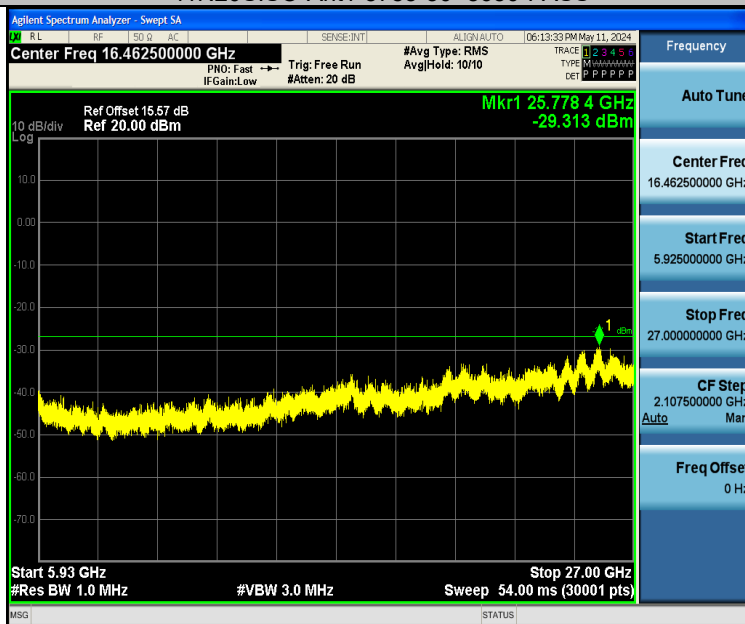
11N20SISO-Ant1-5745-30~5650-PASS



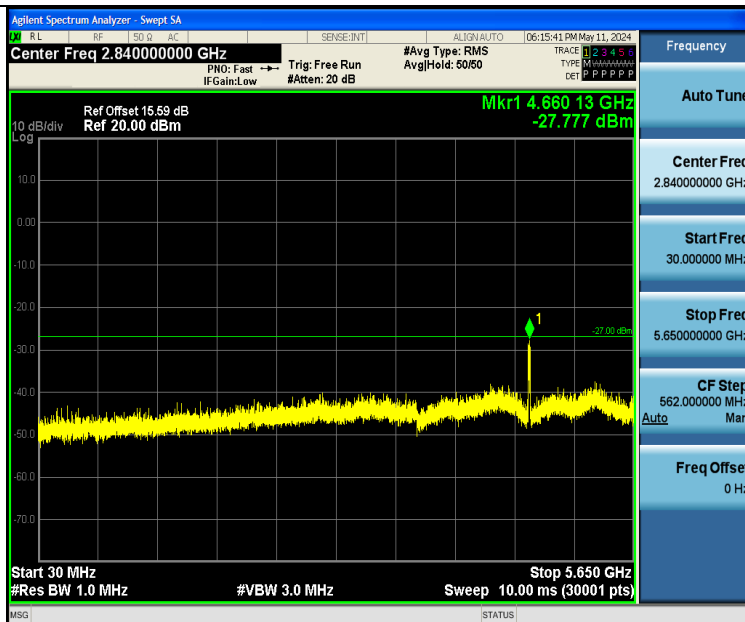
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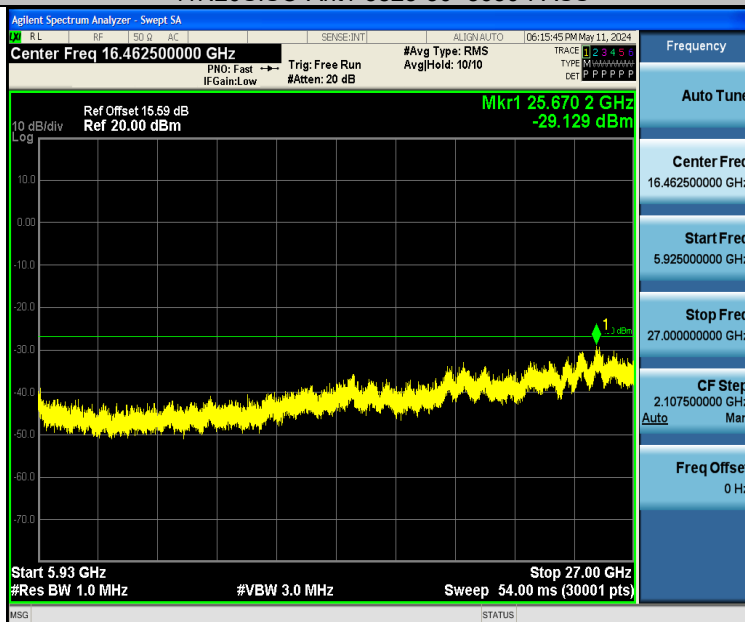
11N20SISO-Ant1-5785-30~5650-PASS



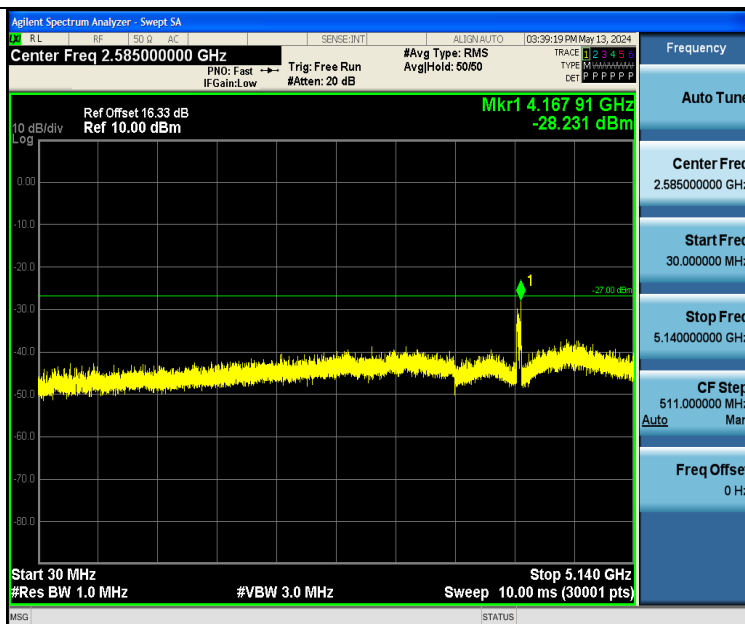
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11N20SISO-Ant1-5825-30~5650-PASS



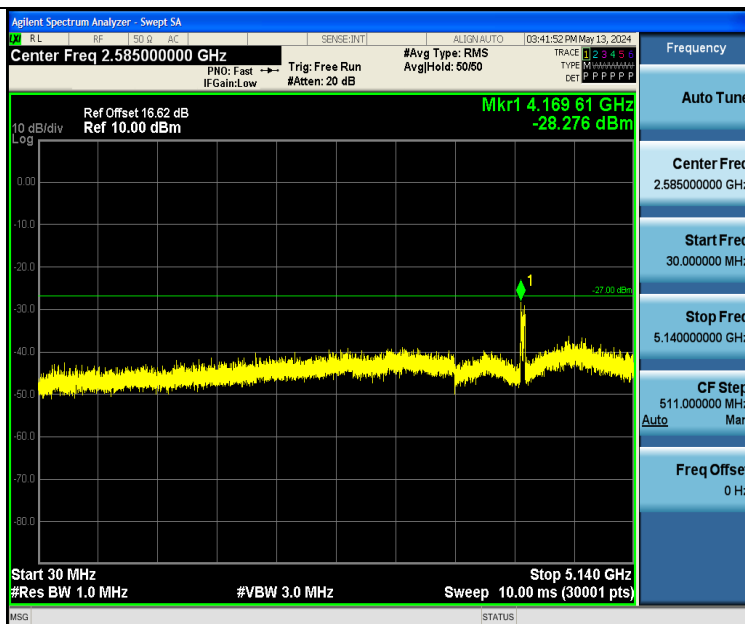
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11N40SISO-Ant1-5190-30~5140-PASS



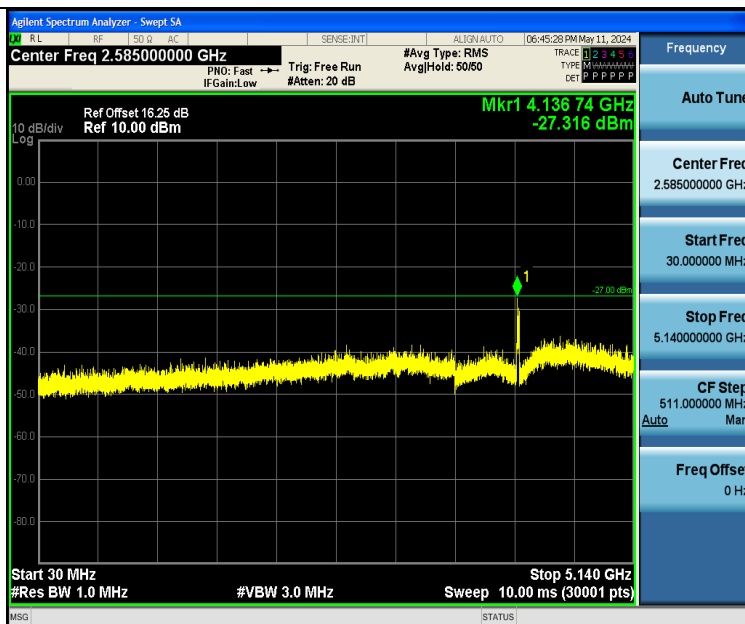
11N40SISO-Ant1-5190-5360~40000-PASS



11N40SISO-Ant1-5230-30~5140-PASS



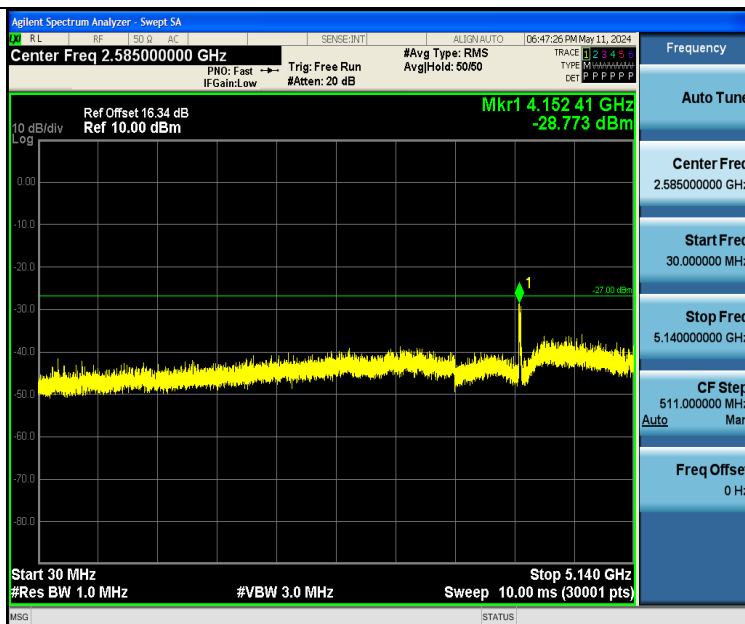
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11AC20SISO-Ant1-5180-30~5140-PASS



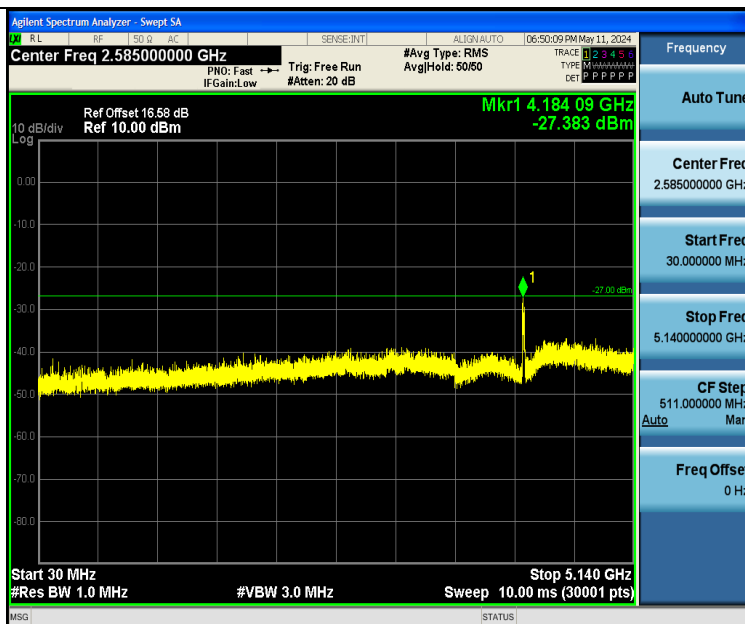
11AC20SISO-Ant1-5180-5360~40000-PASS



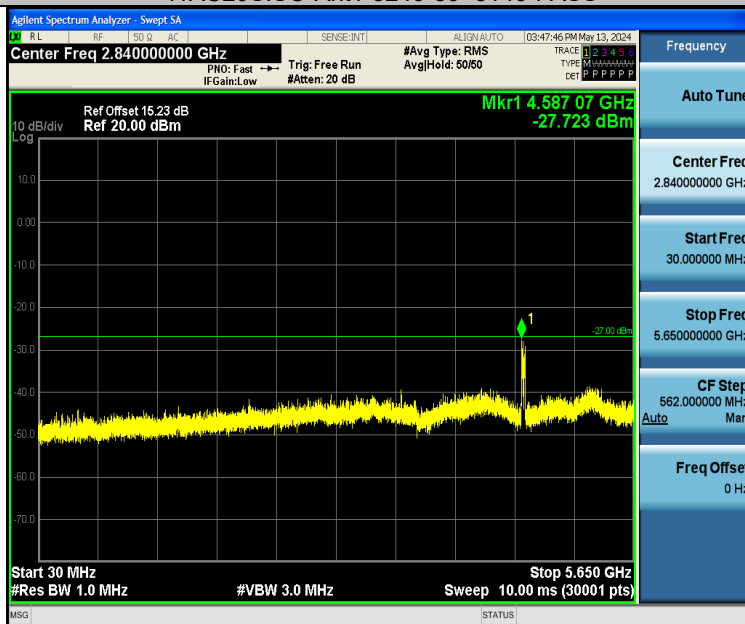
11AC20SISO-Ant1-5200-30~5140-PASS



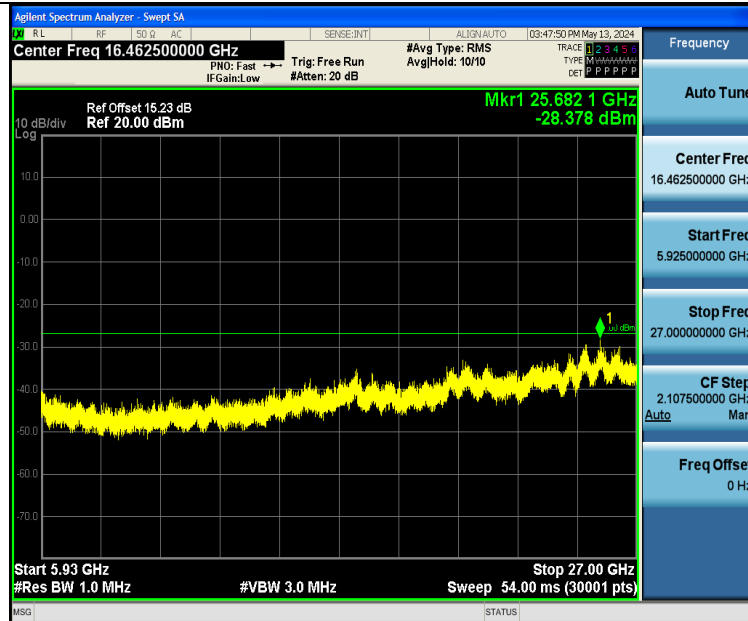
11AC20SISO-Ant1-5200-5360~40000-PASS



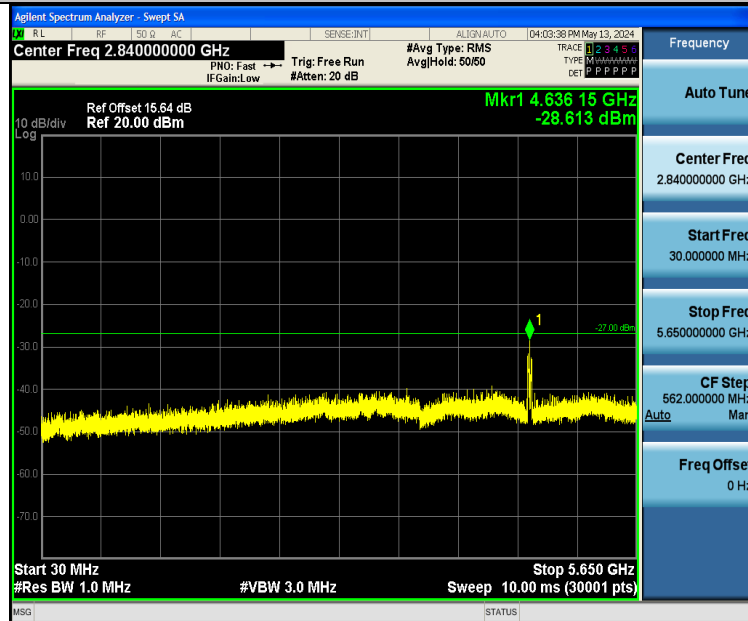
11AC20SISO-Ant1-5240-30~5140-PASS



11N40SISO-Ant1-5755-30~5650-PASS



11N40SISO-Ant1-5755-5925~40000-PASS



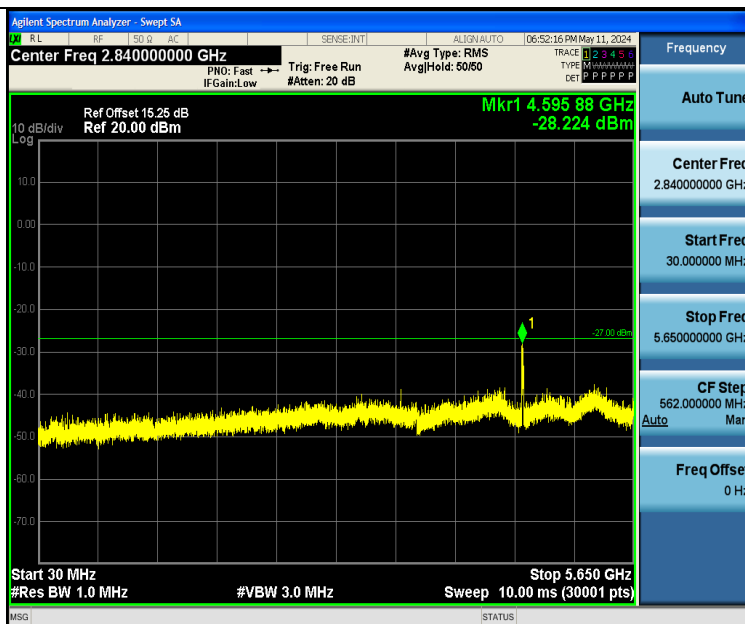
11N40SISO-Ant1-5795-30~5650-PASS



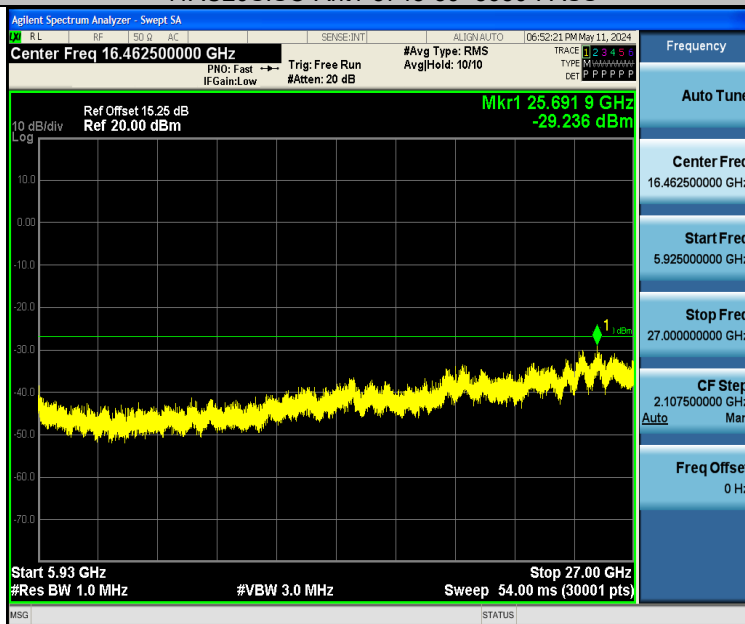
11N40SISO-Ant1-5795-5925~40000-PASS



11AC20SISO-Ant1-5240-5360~40000-PASS



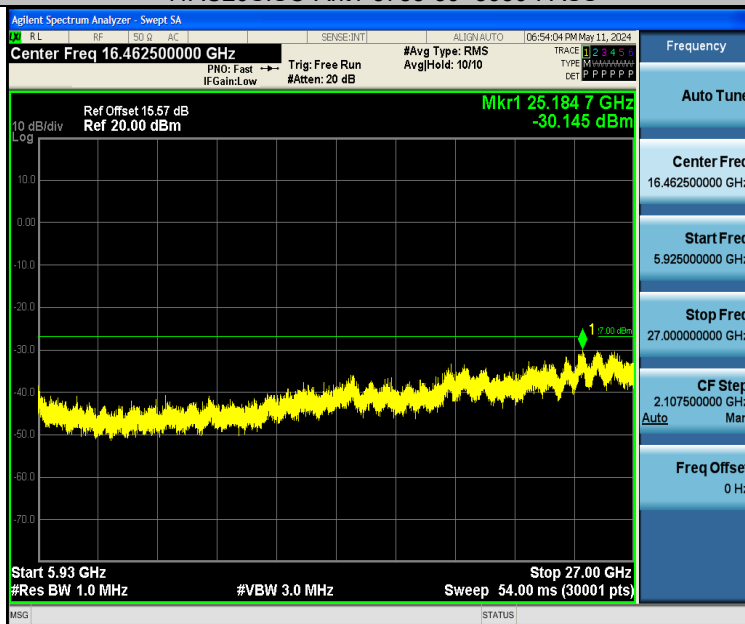
11AC20SISO-Ant1-5745-30~5650-PASS



11AC20SISO-Ant1-5745-5925~40000-PASS



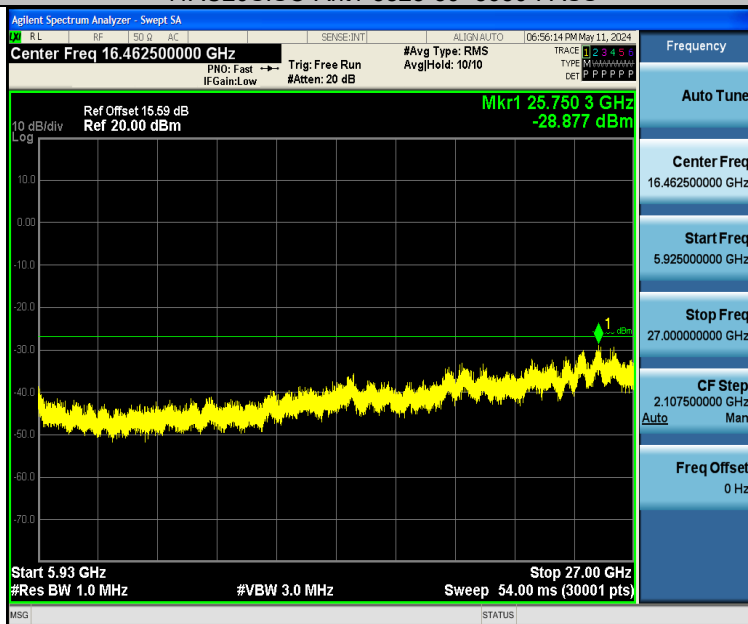
11AC20SISO-Ant1-5785-30~5650-PASS



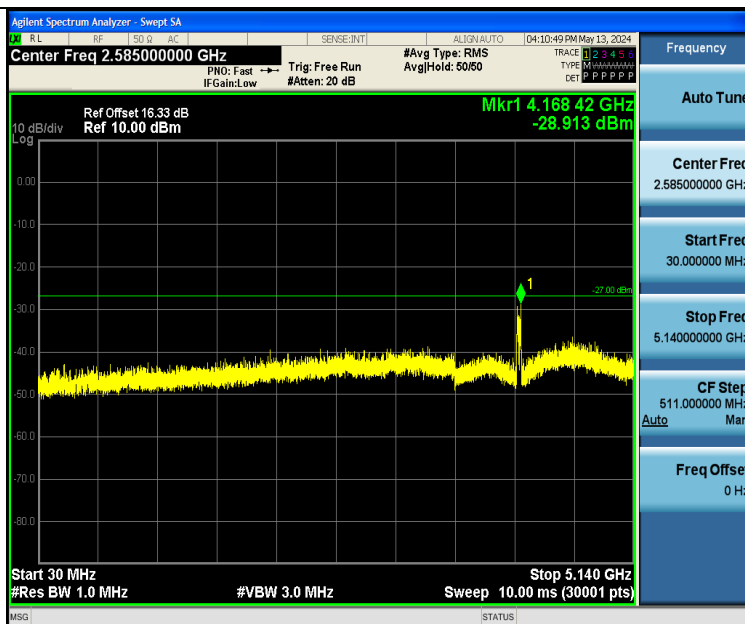
11AC20SISO-Ant1-5785-5925~40000-PASS



11AC20SISO-Ant1-5825-30~5650-PASS



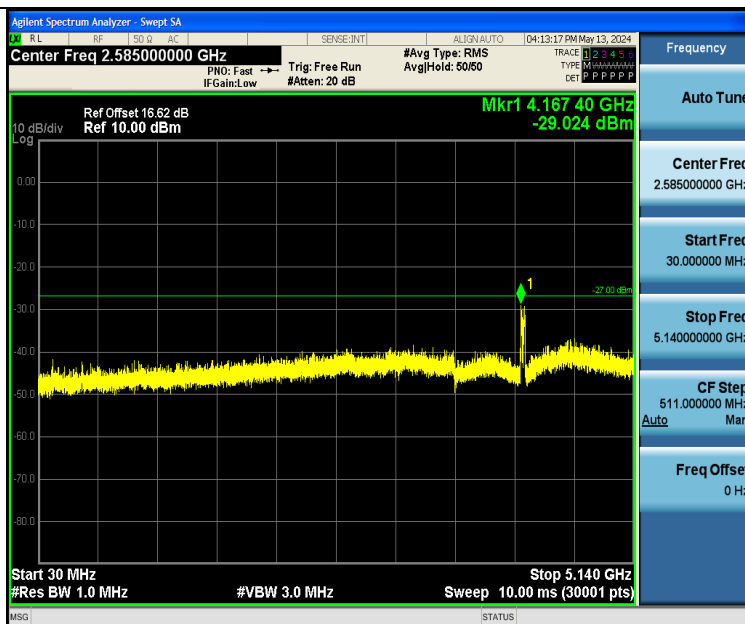
11AC20SISO-Ant1-5825-5925~40000-PASS



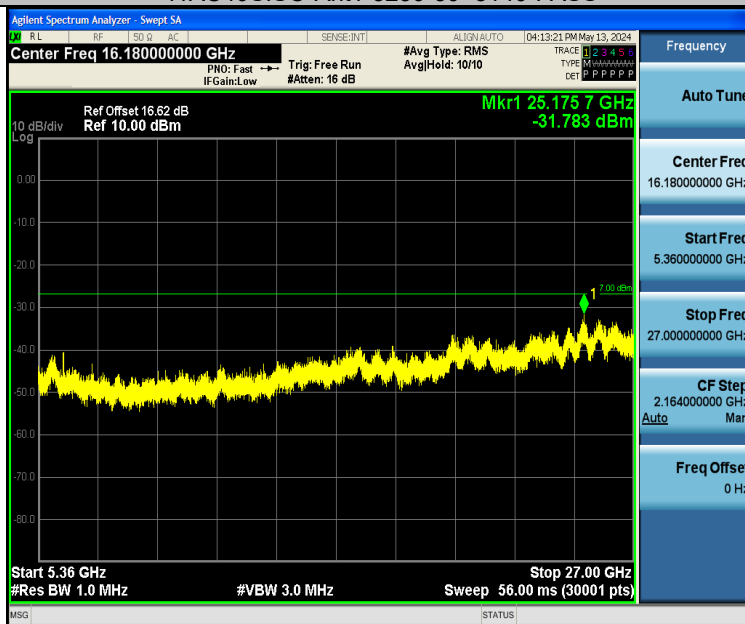
11AC40SISO-Ant1-5190-30~5140-PASS



11AC40SISO-Ant1-5190-5360~40000-PASS



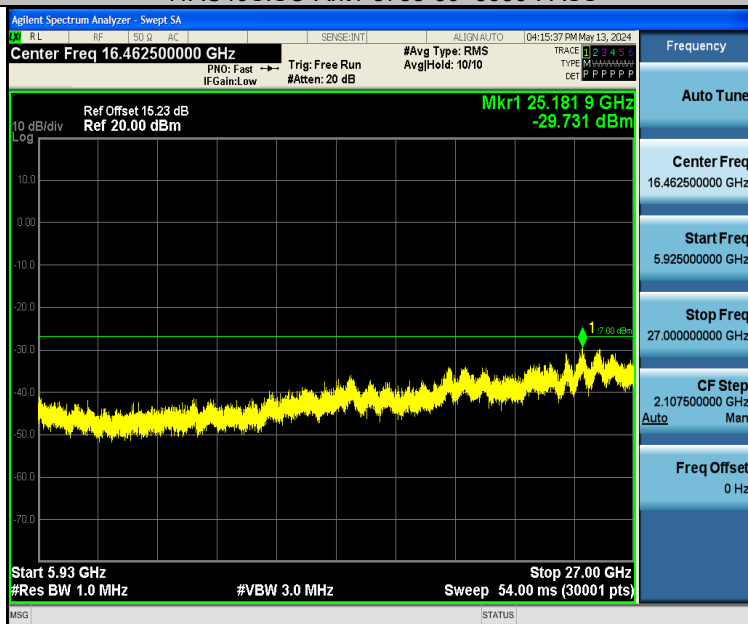
11AC40SISO-Ant1-5230-30~5140-PASS



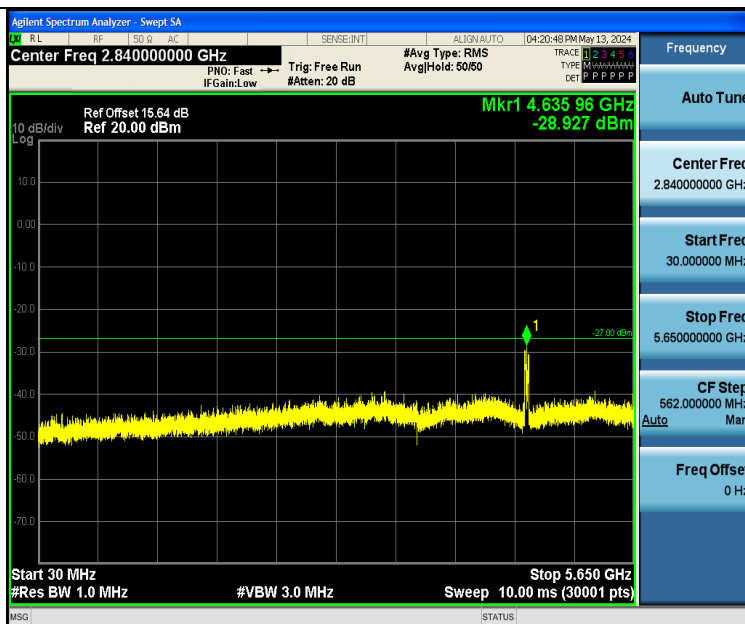
11AC40SISO-Ant1-5230-5360~40000-PASS



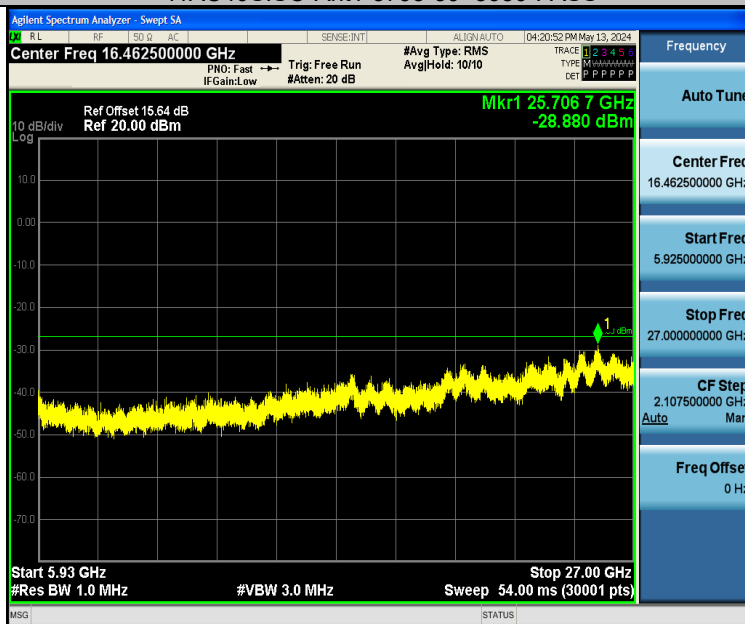
11AC40SISO-Ant1-5755-30~5650-PASS



11AC40SISO-Ant1-5755-5925~40000-PASS



11AC40SISO-Ant1-5795-30~5650-PASS



11AC40SISO-Ant1-5795-5925~40000-PASS



6.6 Band edge measurements

Test Result:

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-39.28	≤-27	PASS
11A	Ant1	High	5240	-40.52	≤-27	PASS
11N20SISO	Ant1	Low	5180	-39.85	≤-27	PASS
11N20SISO	Ant1	High	5240	-40.27	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-39.34	≤-27	PASS
11AC20SISO	Ant1	High	5240	-40.42	≤-27	PASS
11N40SISO	Ant1	Low	5190	-40.31	≤-27	PASS
11N40SISO	Ant1	High	5230	-39.97	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-39.87	≤-27	PASS
11AC40SISO	Ant1	High	5230	-40.32	≤-27	PASS

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-34.74	≤25.52	PASS
11A	Ant1	Low	5745	5700~5720	-40.78	≤13.86	PASS
11A	Ant1	Low	5745	5650~5700	-42.34	≤5.81	PASS
11A	Ant1	Low	5745	5760~5650	-43.37	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-40.3	≤24.41	PASS
11A	Ant1	High	5825	5855~5875	-40.32	≤14.22	PASS
11A	Ant1	High	5825	5875~5925	-40.15	≤-18.46	PASS
11A	Ant1	High	5825	5925~5935	-41.08	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-35.17	≤23.42	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-40.74	≤14.50	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-43.1	≤5.72	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-42.91	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-38.69	≤16.41	PASS
11N20SISO	Ant1	High	5825	5855~5875	-40.83	≤15.16	PASS
11N20SISO	Ant1	High	5825	5875~5925	-40.63	≤-1.78	PASS
11N20SISO	Ant1	High	5825	5925~5935	-41.12	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-42.24	≤20.35	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-42.41	≤11.50	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-43.11	≤9.36	PASS
11N40SISO	Ant1	Low	5755	5780~5650	-43.6	≤-27	PASS
11AC40SISO	Ant1	Low	5755	5720~5725	-41.67	≤24.97	PASS
11AC40SISO	Ant1	Low	5755	5700~5720	-41.83	≤13.50	PASS



11AC40SIS O	Ant1	Low	5755	5650~5700	-41.71	≤4.46	PASS
11AC40SIS O	Ant1	Low	5755	5780~5650	-44.21	≤-27	PASS
11AC40SIS O	Ant1	High	5795	5850~5855	-40.87	≤17.54	PASS
11AC40SIS O	Ant1	High	5795	5855~5875	-40.78	≤15.40	PASS
11AC40SIS O	Ant1	High	5795	5875~5925	-40.24	≤-16.42	PASS
11AC40SIS O	Ant1	High	5795	5925~5935	-40.33	≤-27	PASS
11AC20SIS O	Ant1	Low	5745	5720~5725	-37.47	≤26.83	PASS
11AC20SIS O	Ant1	Low	5745	5700~5720	-37.51	≤15.40	PASS
11AC20SIS O	Ant1	Low	5745	5650~5700	-42.85	≤1.04	PASS
11AC20SIS O	Ant1	Low	5745	5760~5650	-44.29	≤-27	PASS
11AC20SIS O	Ant1	High	5825	5850~5855	-40.12	≤17.95	PASS
11AC20SIS O	Ant1	High	5825	5855~5875	-40.1	≤14.67	PASS
11AC20SIS O	Ant1	High	5825	5875~5925	-40.03	≤-7.28	PASS
11AC20SIS O	Ant1	High	5825	5925~5935	-41.15	≤-27	PASS
11N40SIS O	Ant1	High	5795	5850~5855	-40.79	≤17.16	PASS
11N40SIS O	Ant1	High	5795	5855~5875	-41.46	≤14.47	PASS
11N40SIS O	Ant1	High	5795	5875~5925	-40.53	≤6.66	PASS
11N40SIS O	Ant1	High	5795	5925~5935	-40.99	≤-27	PASS

Test Graphs:

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-34.74	≤25.52	PASS
11A	Ant1	Low	5745	5700~5720	-40.78	≤13.86	PASS
11A	Ant1	Low	5745	5650~5700	-42.34	≤5.81	PASS
11A	Ant1	Low	5745	5760~5650	-43.37	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-40.3	≤24.41	PASS
11A	Ant1	High	5825	5855~5875	-40.32	≤14.22	PASS
11A	Ant1	High	5825	5875~5925	-40.15	≤-18.46	PASS
11A	Ant1	High	5825	5925~5935	-41.08	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5720~5725	-35.17	≤23.42	PASS
11N20SIS O	Ant1	Low	5745	5700~5720	-40.74	≤14.50	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-43.1	≤5.72	PASS
11N20SIS	Ant1	Low	5745	5760~5650	-42.91	≤-27	PASS



O							
11N20SIS O	Ant1	High	5825	5850~5855	-38.69	≤16.41	PASS
11N20SIS O	Ant1	High	5825	5855~5875	-40.83	≤15.16	PASS
11N20SIS O	Ant1	High	5825	5875~5925	-40.63	≤-1.78	PASS
11N20SIS O	Ant1	High	5825	5925~5935	-41.12	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5720~5725	-42.24	≤20.35	PASS
11N40SIS O	Ant1	Low	5755	5700~5720	-42.41	≤11.50	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-43.11	≤9.36	PASS
11N40SIS O	Ant1	Low	5755	5780~5650	-43.6	≤-27	PASS
11AC40SIS O	Ant1	Low	5755	5720~5725	-41.67	≤24.97	PASS
11AC40SIS O	Ant1	Low	5755	5700~5720	-41.83	≤13.50	PASS
11AC40SIS O	Ant1	Low	5755	5650~5700	-41.71	≤4.46	PASS
11AC40SIS O	Ant1	Low	5755	5780~5650	-44.21	≤-27	PASS
11AC40SIS O	Ant1	High	5795	5850~5855	-40.87	≤17.54	PASS
11AC40SIS O	Ant1	High	5795	5855~5875	-40.78	≤15.40	PASS
11AC40SIS O	Ant1	High	5795	5875~5925	-40.24	≤-16.42	PASS
11AC40SIS O	Ant1	High	5795	5925~5935	-40.33	≤-27	PASS
11AC20SIS O	Ant1	Low	5745	5720~5725	-37.47	≤26.83	PASS
11AC20SIS O	Ant1	Low	5745	5700~5720	-37.51	≤15.40	PASS
11AC20SIS O	Ant1	Low	5745	5650~5700	-42.85	≤1.04	PASS
11AC20SIS O	Ant1	Low	5745	5760~5650	-44.29	≤-27	PASS
11AC20SIS O	Ant1	High	5825	5850~5855	-40.12	≤17.95	PASS
11AC20SIS O	Ant1	High	5825	5855~5875	-40.1	≤14.67	PASS
11AC20SIS O	Ant1	High	5825	5875~5925	-40.03	≤-7.28	PASS
11AC20SIS O	Ant1	High	5825	5925~5935	-41.15	≤-27	PASS
11N40SIS O	Ant1	High	5795	5850~5855	-40.79	≤17.16	PASS
11N40SIS O	Ant1	High	5795	5855~5875	-41.46	≤14.47	PASS
11N40SIS O	Ant1	High	5795	5875~5925	-40.53	≤6.66	PASS
11N40SIS O	Ant1	High	5795	5925~5935	-40.99	≤-27	PASS



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Test plots B4:

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-34.74	≤25.52	PASS
11A	Ant1	Low	5745	5700~5720	-40.78	≤13.86	PASS
11A	Ant1	Low	5745	5650~5700	-42.34	≤5.81	PASS
11A	Ant1	Low	5745	5760~5650	-43.37	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-40.3	≤24.41	PASS
11A	Ant1	High	5825	5855~5875	-40.32	≤14.22	PASS
11A	Ant1	High	5825	5875~5925	-40.15	≤-18.46	PASS
11A	Ant1	High	5825	5925~5935	-41.08	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5720~5725	-35.17	≤23.42	PASS
11N20SIS O	Ant1	Low	5745	5700~5720	-40.74	≤14.50	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-43.1	≤5.72	PASS
11N20SIS O	Ant1	Low	5745	5760~5650	-42.91	≤-27	PASS
11N20SIS O	Ant1	High	5825	5850~5855	-38.69	≤16.41	PASS
11N20SIS O	Ant1	High	5825	5855~5875	-40.83	≤15.16	PASS
11N20SIS O	Ant1	High	5825	5875~5925	-40.63	≤-1.78	PASS
11N20SIS O	Ant1	High	5825	5925~5935	-41.12	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5720~5725	-42.24	≤20.35	PASS
11N40SIS O	Ant1	Low	5755	5700~5720	-42.41	≤11.50	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-43.11	≤9.36	PASS
11N40SIS O	Ant1	Low	5755	5780~5650	-43.6	≤-27	PASS
11AC40SIS O	Ant1	Low	5755	5720~5725	-41.67	≤24.97	PASS
11AC40SIS O	Ant1	Low	5755	5700~5720	-41.83	≤13.50	PASS
11AC40SIS O	Ant1	Low	5755	5650~5700	-41.71	≤4.46	PASS
11AC40SIS O	Ant1	Low	5755	5780~5650	-44.21	≤-27	PASS
11AC40SIS O	Ant1	High	5795	5850~5855	-40.87	≤17.54	PASS
11AC40SIS O	Ant1	High	5795	5855~5875	-40.78	≤15.40	PASS
11AC40SIS O	Ant1	High	5795	5875~5925	-40.24	≤-16.42	PASS
11AC40SIS O	Ant1	High	5795	5925~5935	-40.33	≤-27	PASS
11AC20SIS O	Ant1	Low	5745	5720~5725	-37.47	≤26.83	PASS
11AC20SIS O	Ant1	Low	5745	5700~5720	-37.51	≤15.40	PASS
11AC20SIS O	Ant1	Low	5745	5650~5700	-42.85	≤1.04	PASS



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11AC20SIS O	Ant1	Low	5745	5760~5650	-44.29	≤ -27	PASS
11AC20SIS O	Ant1	High	5825	5850~5855	-40.12	≤ 17.95	PASS
11AC20SIS O	Ant1	High	5825	5855~5875	-40.1	≤ 14.67	PASS
11AC20SIS O	Ant1	High	5825	5875~5925	-40.03	≤ 7.28	PASS
11AC20SIS O	Ant1	High	5825	5925~5935	-41.15	≤ -27	PASS
11N40SIS O	Ant1	High	5795	5850~5855	-40.79	≤ 17.16	PASS
11N40SIS O	Ant1	High	5795	5855~5875	-41.46	≤ 14.47	PASS
11N40SIS O	Ant1	High	5795	5875~5925	-40.53	≤ 6.66	PASS
11N40SIS O	Ant1	High	5795	5925~5935	-40.99	≤ -27	PASS



6.7 Restricted Band

Test Requirement : FCC Part15 E Section 15.407(b)

Test site : Measurement Distance: 3m

Test Limit :

Frequency	Limit (dBuV/m @3m)	Remark
Above 1GHz	74	Peak Value
	54	Average Value

Test Procedure:

1. The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

Test Result:

Worst case mode:		802.11a(6Mbps)		Test channel:		36		
NO.	Freq. [MHz]	level [dBμV/m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5150	50.01	6.53	56.54	74	17.46	H	Peak
2	5150	40.12	6.53	46.65	54	7.35	H	Average
3	5150	49.96	6.53	56.49	74	17.51	V	Peak
4	5150	38.32	6.53	44.85	54	9.15	V	Average



Worst case mode:		802.11a(6Mbps)		Test channel:		48		
NO.	Freq. [MHz]	level [dBμV/m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5350	50.41	6.56	56.97	74	17.03	H	Peak
2	5350	39.94	6.56	46.5	54	7.5	H	Average
3	5350	49.91	6.56	56.47	74	17.53	V	Peak
4	5350	38.13	6.56	44.69	54	9.31	V	Average

Worst case mode:		802.11a(6Mbps)		Test channel:		165		
NO.	Freq. [MHz]	level [dBμV/m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Over [dB]	Polarity	Detector Type
1	5850	49.75	6.64	56.39	74	17.61	H	Peak
2	5850	40.13	6.64	46.77	54	7.23	H	Average
3	5850	49.46	6.64	56.1	74	17.9	V	Peak
4	5850	38.01	6.64	44.65	54	9.35	V	Average

Note: Only recorded the worst case in the report.



7 Emission Bandwidth and Occupied Bandwidth

Test Requirement	: FCC CFR47 Part 15 Section 15.407(a)(e)
Test Method	: ANSI C63.10:2013 According to FCC §15.407(a), The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less.
Test Limit	Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth. As per FCC §15.407(e): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of U-NII devices shall be 500 kHz.

7.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01,
Emission Bandwidth (EBW)

a) Set RBW = approximately 1% of the emission bandwidth; b) Set the VBW > RBW; c) Detector = Peak; d) Trace mode = max hold; e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%; 99% Occupied Bandwidth
The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

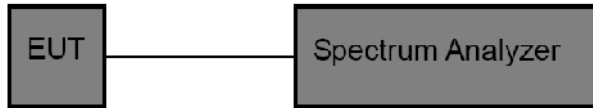
The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set $VBW \geq 3 \cdot RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency.



The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

7.2 Test Setup



7.3 Test Result

PASS

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.
Following channel was selected for the final test as listed below.

26 dB emission bandwidth:

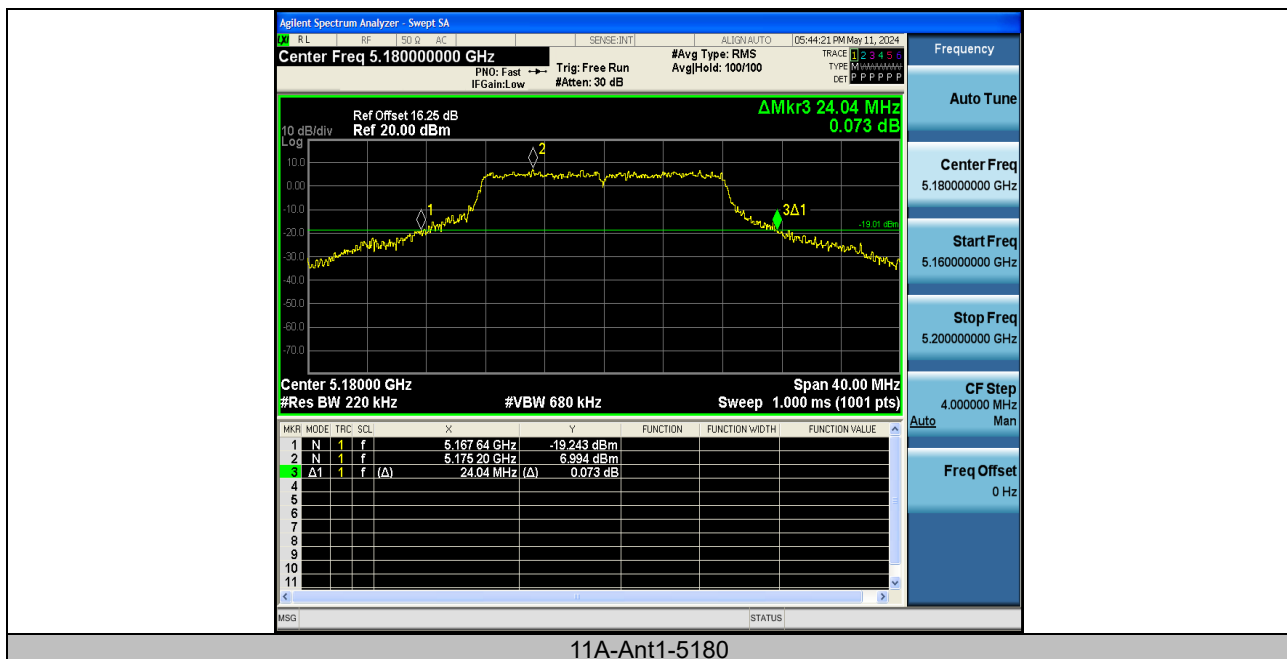
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.040	5167.640	5191.680	---	---
11A	Ant1	5200	24.160	5187.760	5211.920	---	---
11A	Ant1	5240	24.760	5227.600	5252.360	---	---
11A	Ant1	5745	25.360	5732.200	5757.560	---	---
11A	Ant1	5785	24.120	5772.840	5796.960	---	---
11A	Ant1	5825	25.240	5812.240	5837.480	---	---
11N20SISO	Ant1	5180	25.360	5167.040	5192.400	---	---
11N20SISO	Ant1	5200	25.360	5186.960	5212.320	---	---
11N20SISO	Ant1	5240	24.200	5227.920	5252.120	---	---
11N20SISO	Ant1	5745	24.800	5732.680	5757.480	---	---
11N20SISO	Ant1	5785	24.360	5772.520	5796.880	---	---
11N20SISO	Ant1	5825	25.080	5812.760	5837.840	---	---
11N40SISO	Ant1	5190	47.040	5166.160	5213.200	---	---
11AC20SISO	Ant1	5180	25.080	5167.640	5192.720	---	---
11AC20SISO	Ant1	5200	26.080	5187.040	5213.120	---	---
11AC20SISO	Ant1	5240	25.040	5227.400	5252.440	---	---
11AC20SISO	Ant1	5745	24.680	5732.880	5757.560	---	---
11AC20SISO	Ant1	5785	24.160	5772.880	5797.040	---	---
11AC20SISO	Ant1	5825	24.200	5813.440	5837.640	---	---
11N40SISO	Ant1	5230	45.600	5207.760	5253.360	---	---
11N40SISO	Ant1	5755	48.000	5731.960	5779.960	---	---
11N40SISO	Ant1	5795	45.840	5772.600	5818.440	---	---
11AC40SISO	Ant1	5190	47.040	5166.560	5213.600	---	---
11AC40SISO	Ant1	5230	47.680	5206.000	5253.680	---	---
11AC40SISO	Ant1	5755	47.600	5731.640	5779.240	---	---
11AC40SISO	Ant1	5795	47.040	5771.480	5818.520	---	---



minimum 6 dB bandwidth:

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
11A	Ant1	5785	16.320	5776.800	5793.120	0.5	PASS
11A	Ant1	5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11N20SISO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11N20SISO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11AC20SISO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
11AC20SISO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11AC20SISO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.080	5737.080	5773.160	0.5	PASS
11N40SISO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11AC40SISO	Ant1	5755	36.240	5736.840	5773.080	0.5	PASS
11AC40SISO	Ant1	5795	36.240	5776.840	5813.080	0.5	PASS

Test Graphs:



11A-Ant1-5180



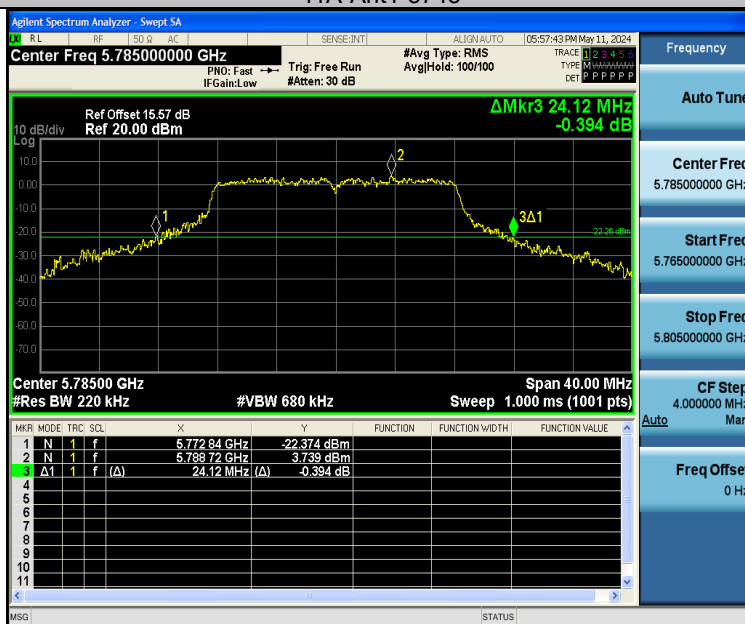
11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5745



11A-Ant1-5785



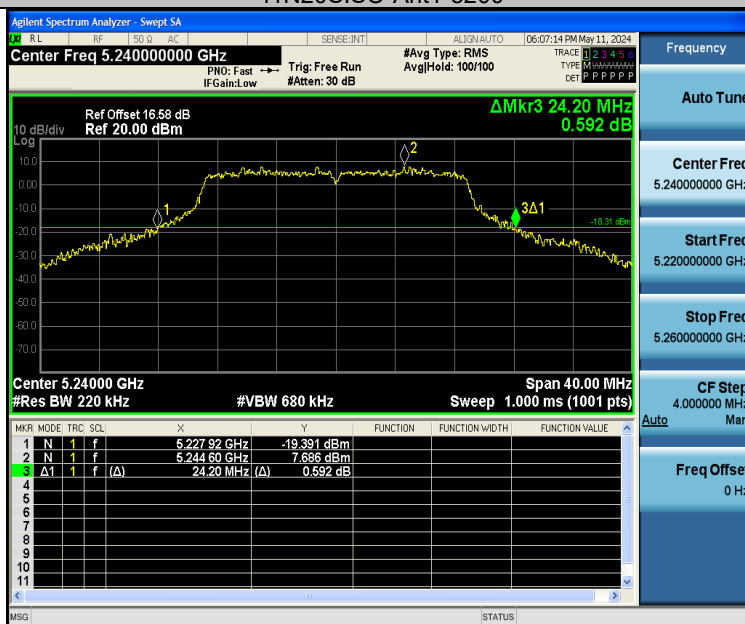
11A-Ant1-5825



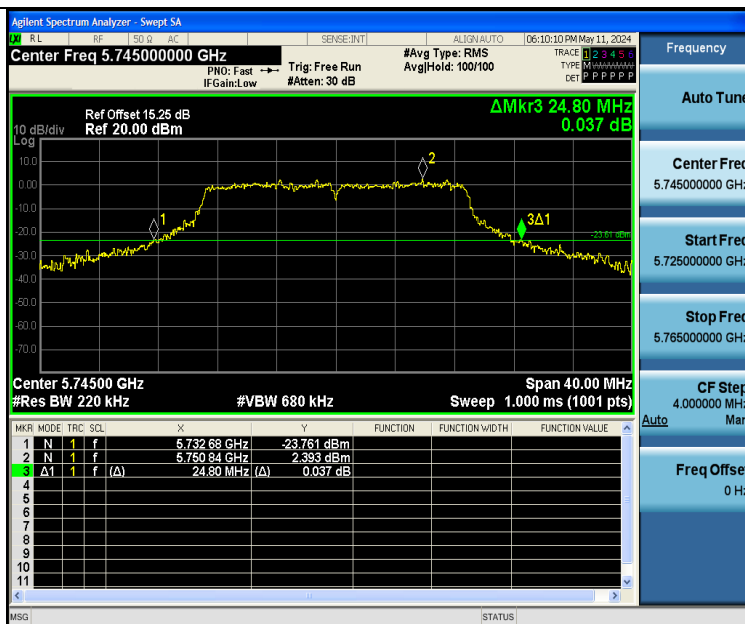
11N20SISO-Ant1-5180



11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



11N20SISO-Ant1-5745



11N20SISO-Ant1-5785



11N20SISO-Ant1-5825



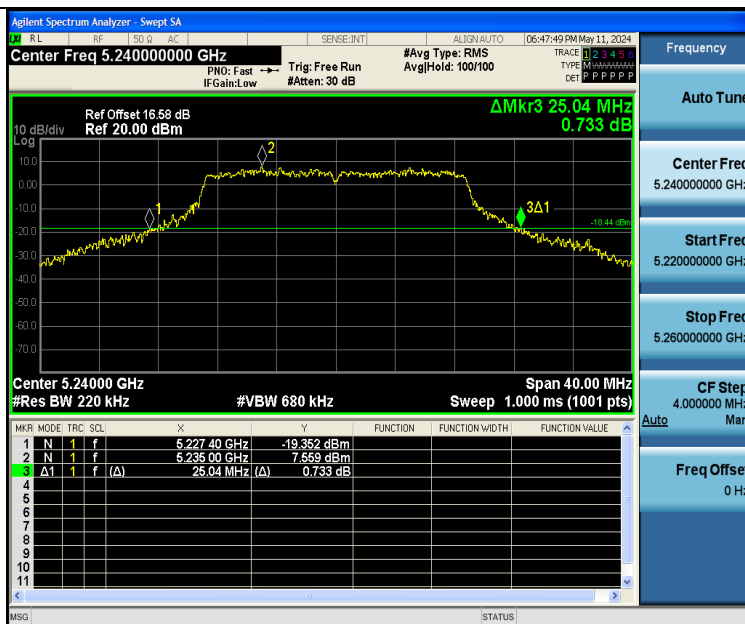
11N40SISO-Ant1-5190



11AC20SISO-Ant1-5180



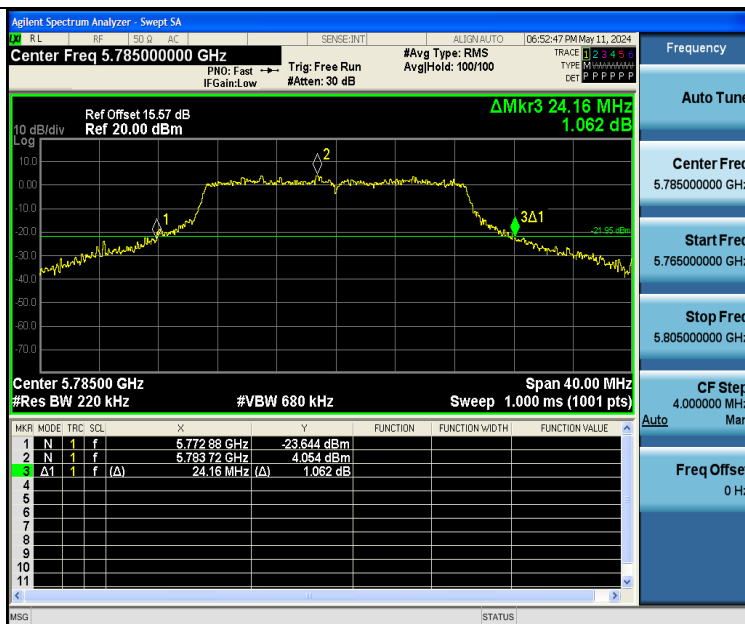
11AC20SISO-Ant1-5200



11AC20SISO-Ant1-5240



11AC20SISO-Ant1-5745



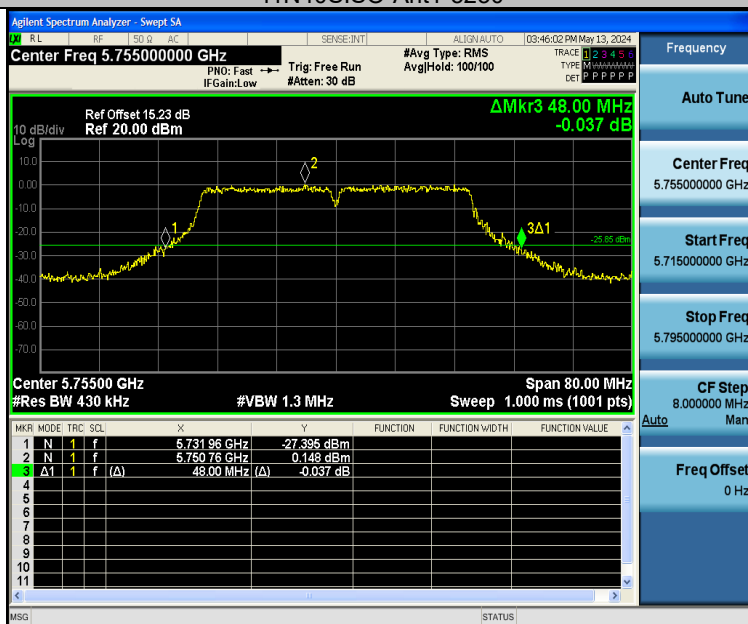
11AC20SISO-Ant1-5785



11AC20SISO-Ant1-5825



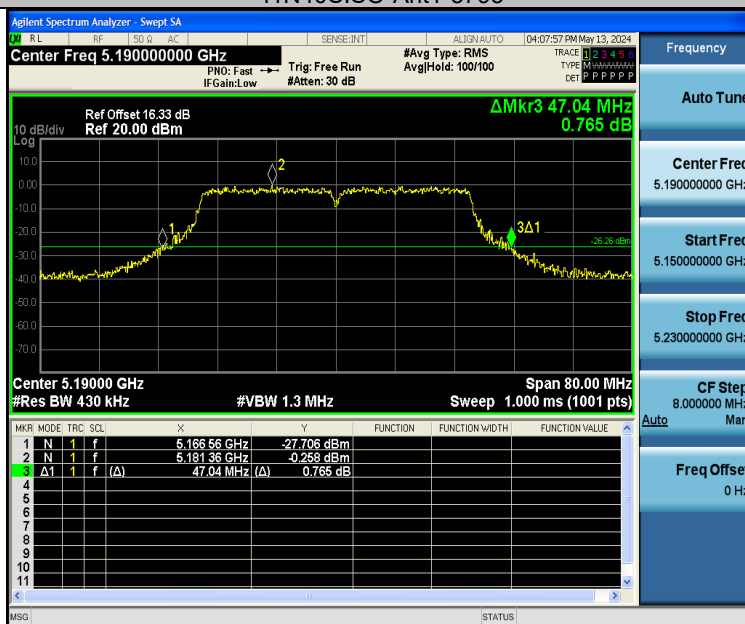
11N40SISO-Ant1-5230



11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



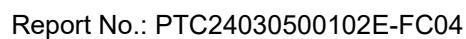
11AC40SISO-Ant1-5190



11AC40SISO-Ant1-5230



11AC40SISO-Ant1-5755





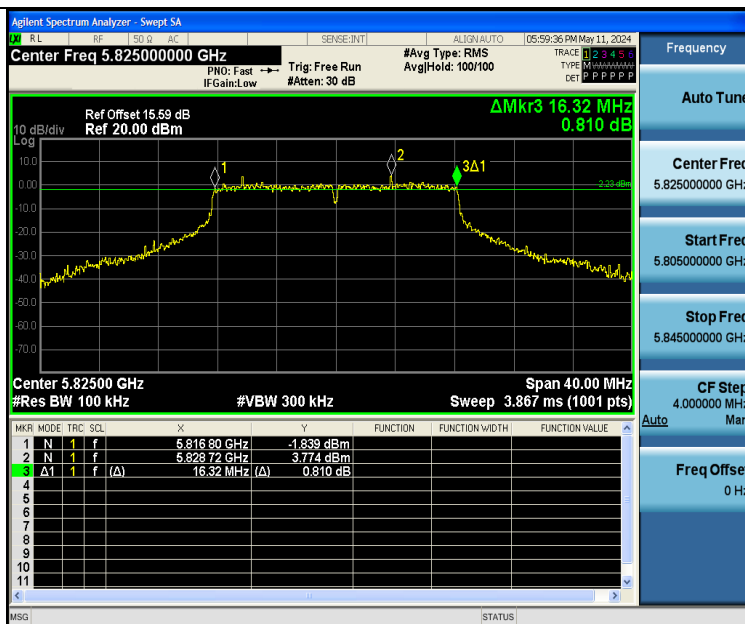
Min emission bandwidth Test Graphs:



11A-Ant1-5745-PASS



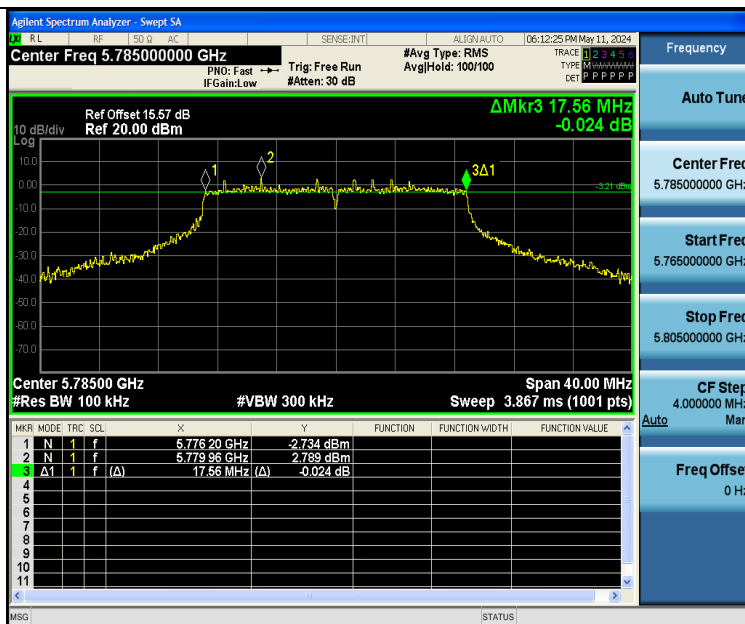
11A-Ant1-5785-PASS



11A-Ant1-5825-PASS



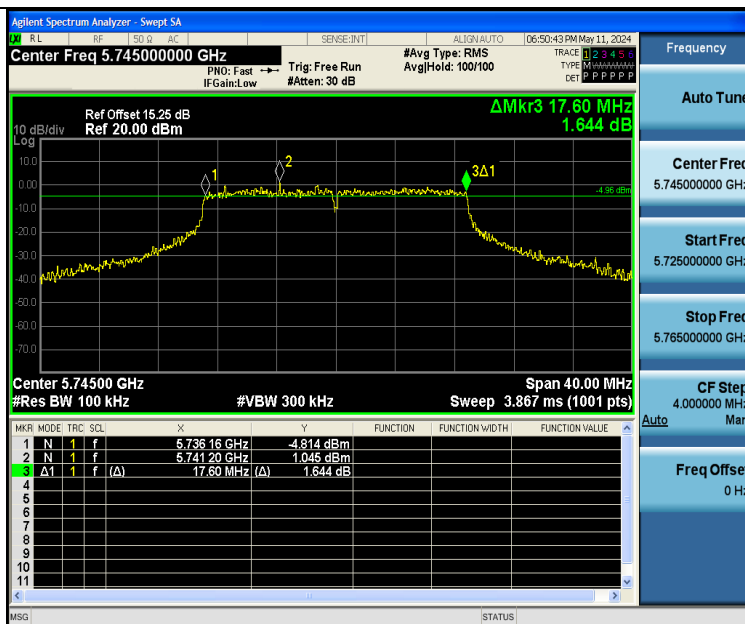
11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



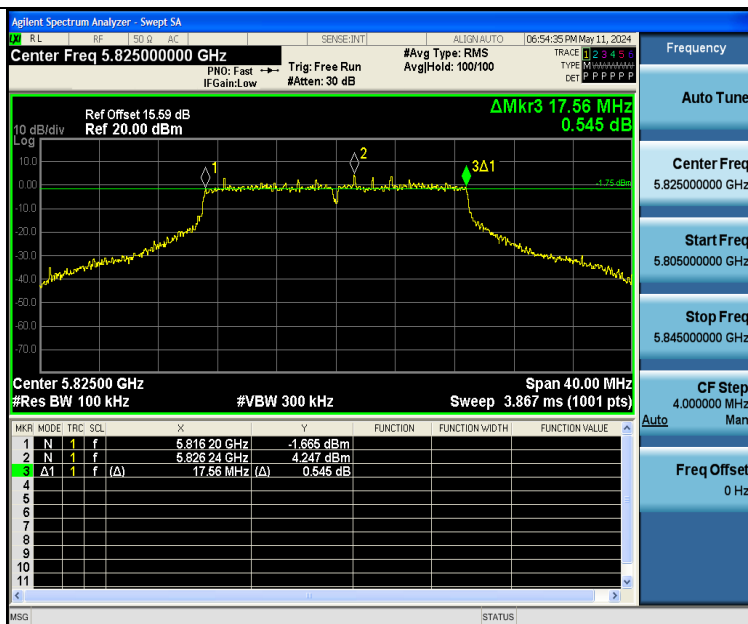
11N20SISO-Ant1-5825-PASS



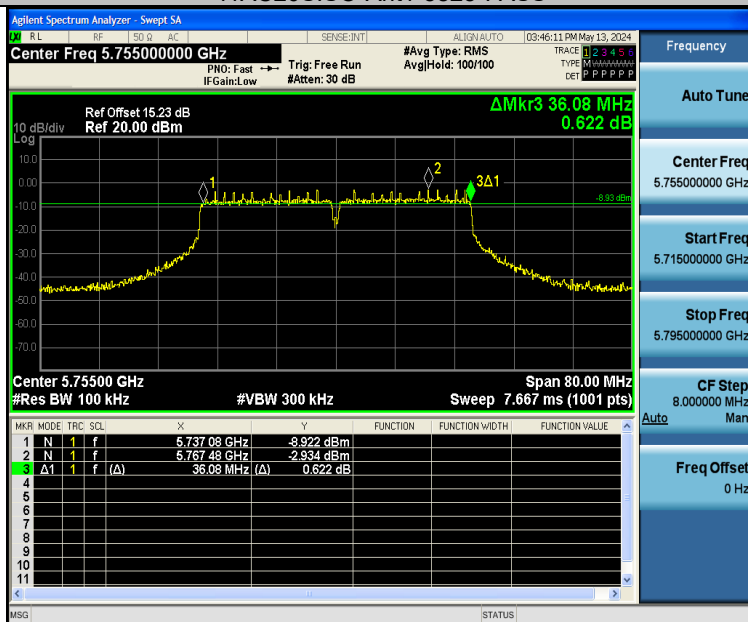
11AC20SISO-Ant1-5745-PASS



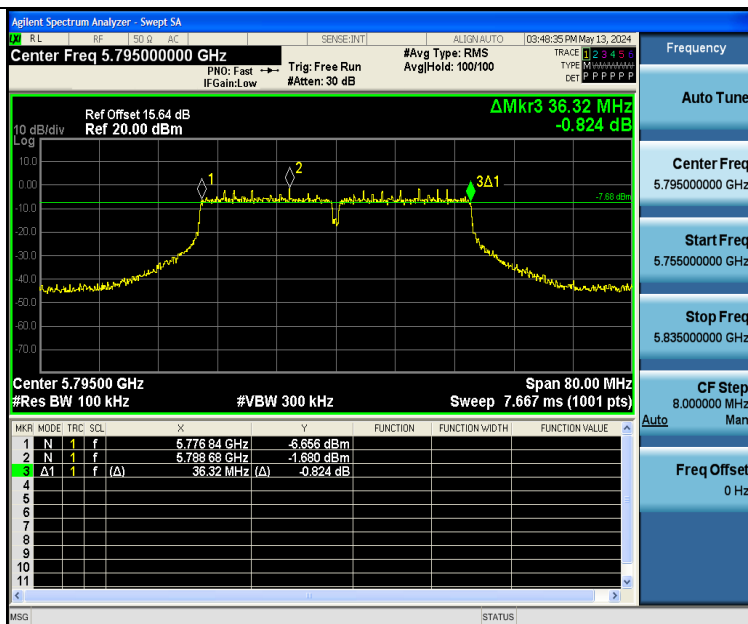
11AC20SISO-Ant1-5785-PASS



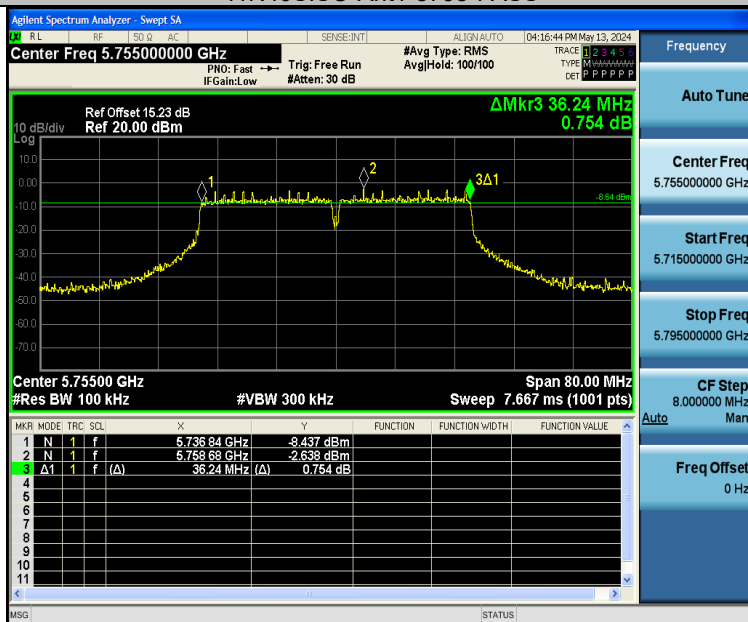
11AC20SISO-Ant1-5825-PASS



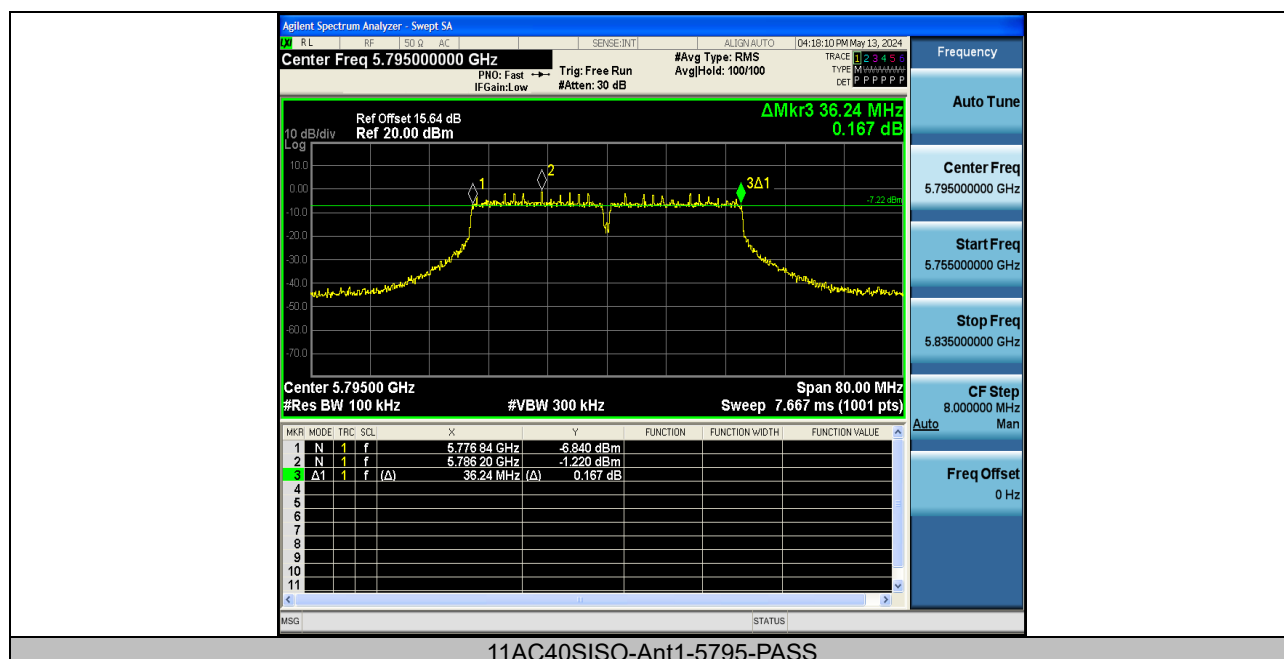
11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



11AC40SISO-Ant1-5755-PASS



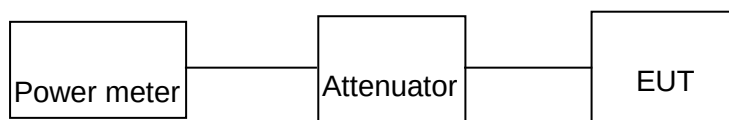


8 Maximum Conducted Output Power

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013
Test Limit	: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

8.1 Test Setup



8.2 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, The use Power Meter 1. Place the EUT on a bench and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a Power meter.



8.3 Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	17.12	≤23.98	PASS
11A	Ant1	5200	17.09	≤23.98	PASS
11A	Ant1	5240	17.91	≤23.98	PASS
11A	Ant1	5745	12.67	≤30.00	PASS
11A	Ant1	5785	14.10	≤30.00	PASS
11A	Ant1	5825	15.08	≤30.00	PASS
11N20SISO	Ant1	5180	16.63	≤23.98	PASS
11N20SISO	Ant1	5200	16.99	≤23.98	PASS
11N20SISO	Ant1	5240	18.07	≤23.98	PASS
11N20SISO	Ant1	5745	12.75	≤30.00	PASS
11N20SISO	Ant1	5785	14.21	≤30.00	PASS
11N20SISO	Ant1	5825	14.96	≤30.00	PASS
11AC20SISO	Ant1	5180	17.03	≤23.98	PASS
11AC20SISO	Ant1	5200	16.95	≤23.98	PASS
11AC20SISO	Ant1	5240	17.94	≤23.98	PASS
11N40SISO	Ant1	5190	10.61	≤23.98	PASS
11N40SISO	Ant1	5230	11.47	≤23.98	PASS
11N40SISO	Ant1	5755	11.56	≤30.00	PASS
11N40SISO	Ant1	5795	12.65	≤30.00	PASS
11AC20SISO	Ant1	5745	12.74	≤30.00	PASS
11AC20SISO	Ant1	5785	14.33	≤30.00	PASS
11AC20SISO	Ant1	5825	15.14	≤30.00	PASS
11AC40SISO	Ant1	5190	10.70	≤23.98	PASS
11AC40SISO	Ant1	5230	11.57	≤23.98	PASS
11AC40SISO	Ant1	5755	11.65	≤30.00	PASS
11AC40SISO	Ant1	5795	12.88	≤30.00	PASS



9 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.2407(a)
Test Method	: ANSI C63.10:2013
Test Limit	: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHzband. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

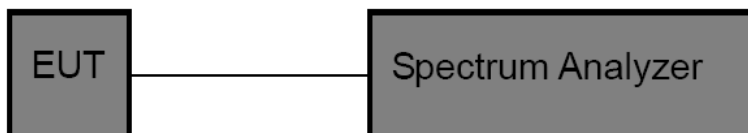


9.1 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI 63.10: 2013 Sec 10.3.7. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set the RBW to 1 MHz.
- b) Set the VBW to be at least 1 MHz (a VBW of 3 MHz is desirable).
- c) Set the frequency span to examine the spectrum across a convenient frequency segment (e.g., 600 MHz).
- d) Select the power averaging (rms) detector.
- e) Set the sweep time so that there is no more than a 1 ms integration period over each measurement bin.
- f) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

9.2 Test Setup





9.3 Test Result

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations / data rates and antenna ports.

Following channel was selected for the final test as listed below

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	6.26	≤11.00	PASS
11A	Ant1	5200	6.1	≤11.00	PASS
11A	Ant1	5240	6.86	≤11.00	PASS
11N20SISO	Ant1	5180	5.48	≤11.00	PASS
11N20SISO	Ant1	5200	5.68	≤11.00	PASS
11N20SISO	Ant1	5240	6.84	≤11.00	PASS
11AC20SISO	Ant1	5180	5.62	≤11.00	PASS
11AC20SISO	Ant1	5200	6.07	≤11.00	PASS
11AC20SISO	Ant1	5240	6.79	≤11.00	PASS
11N40SISO	Ant1	5190	-3.83	≤11.00	PASS
11N40SISO	Ant1	5230	-2.86	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.74	≤11.00	PASS
11AC40SISO	Ant1	5230	-2.92	≤11.00	PASS

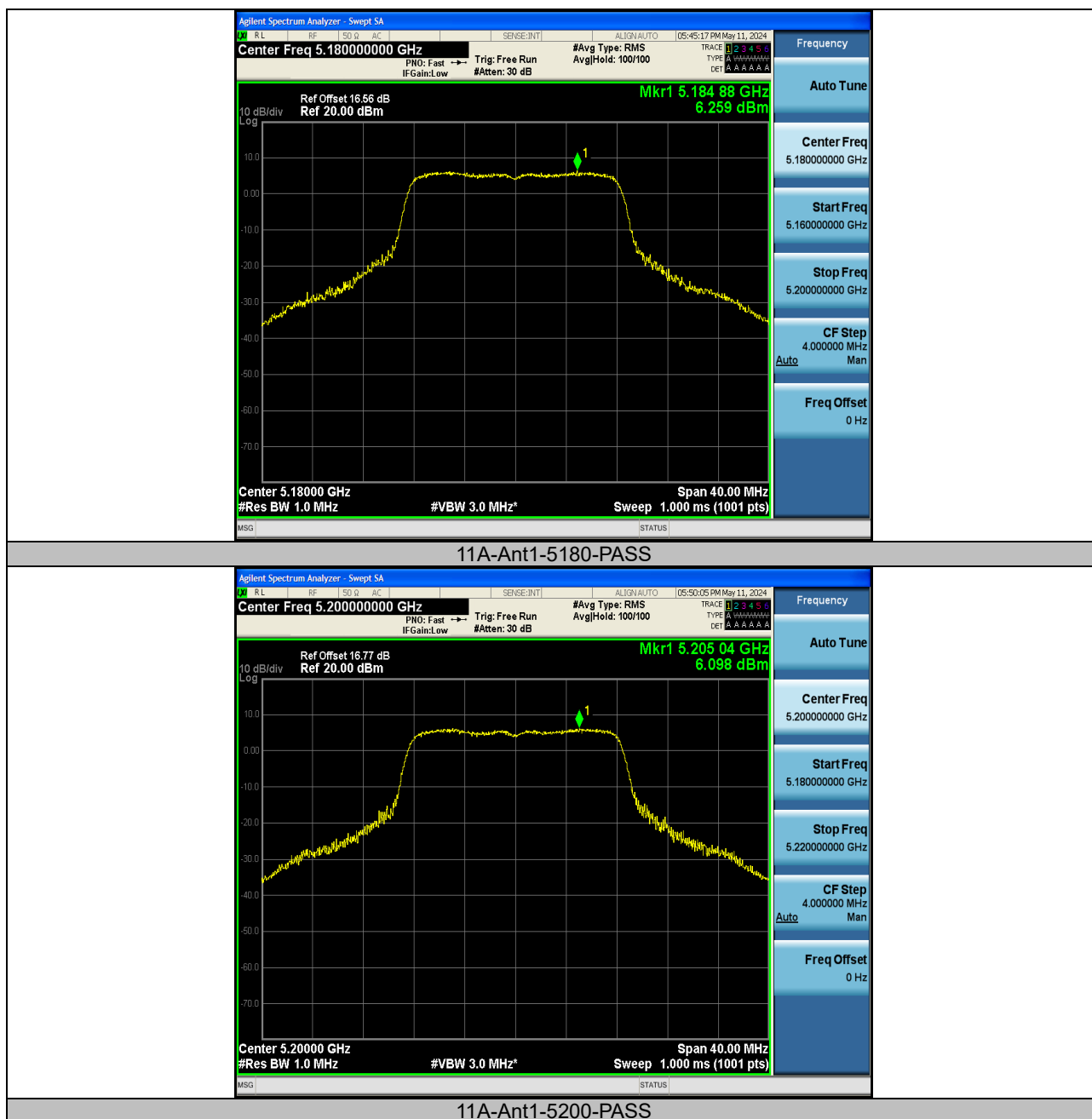
TestMode	Antenna	Frequency[MHz]	Result [dBm/300kHz]	Result [dBm/500kHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-0.97	1.25	≤30.00	PASS
11A	Ant1	5785	0.29	2.51	≤30.00	PASS
11A	Ant1	5825	1.1	3.32	≤30.00	PASS
11N20SISO	Ant1	5745	-1.37	0.85	≤30.00	PASS
11N20SISO	Ant1	5785	0.24	2.46	≤30.00	PASS
11N20SISO	Ant1	5825	0.95	3.17	≤30.00	PASS
11N40SISO	Ant1	5755	-5.83	-3.61	≤30.00	PASS
11N40SISO	Ant1	5795	-4.62	-2.40	≤30.00	PASS
11AC20SISO	Ant1	5745	-1.22	1.00	≤30.00	PASS
11AC20SISO	Ant1	5785	0.25	2.47	≤30.00	PASS
11AC20SISO	Ant1	5825	0.97	3.19	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.35	-3.13	≤30.00	PASS
11AC40SISO	Ant1	5795	-4.42	-2.20	≤30.00	PASS

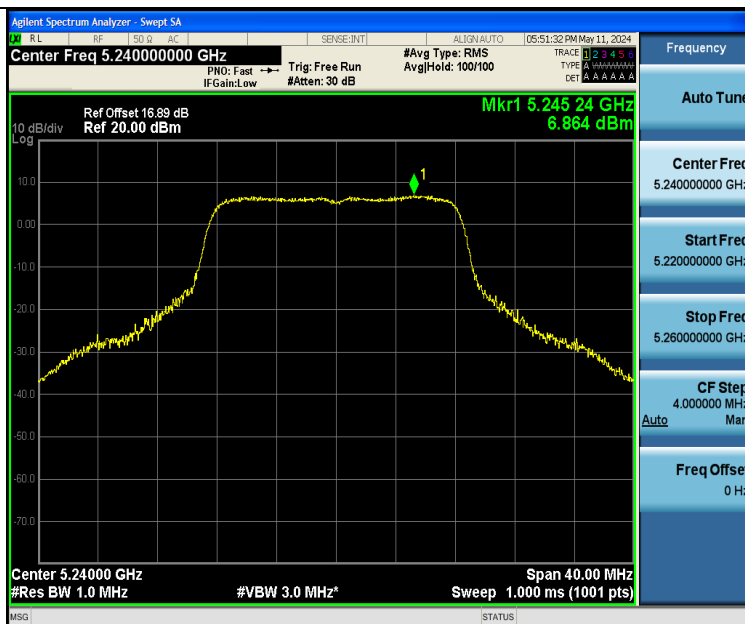
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. in the band 5.725–5.85 GHz the test RBW select 300KHz,so the measured result corrected by Result+10 log (500 kHz/300kHz).

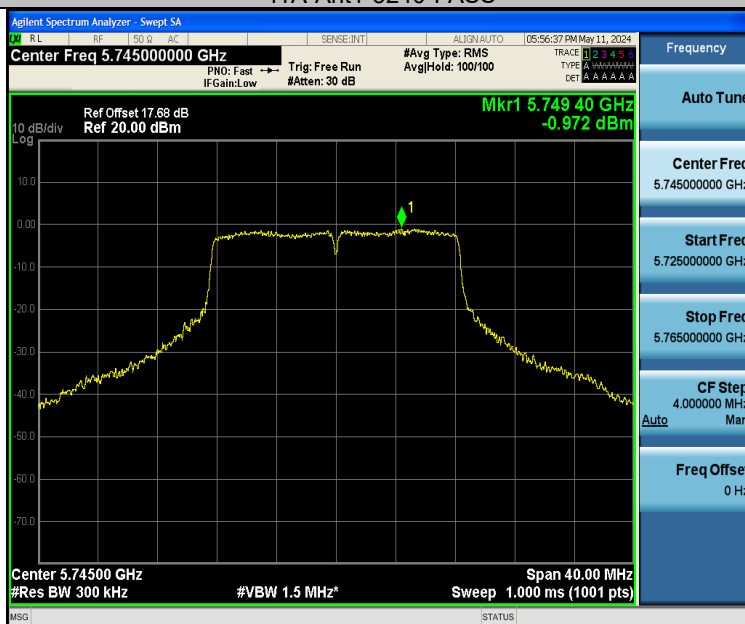


Test Graphs:

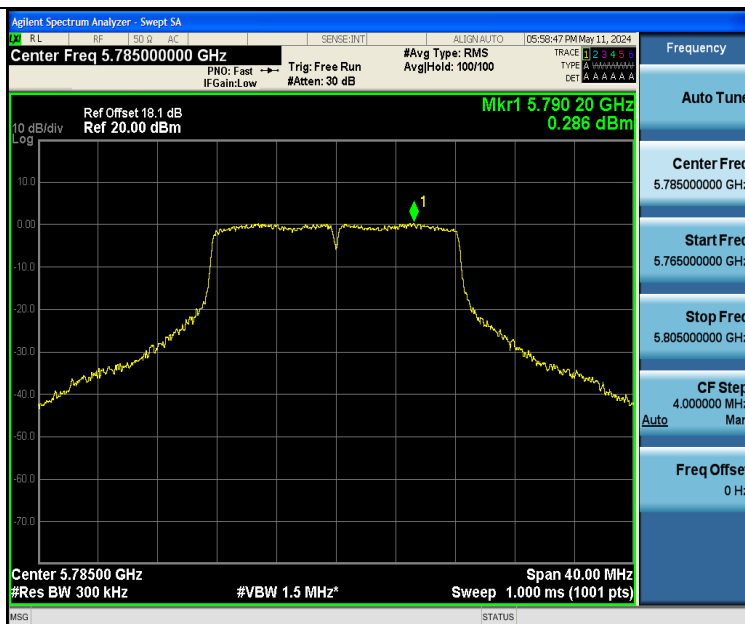




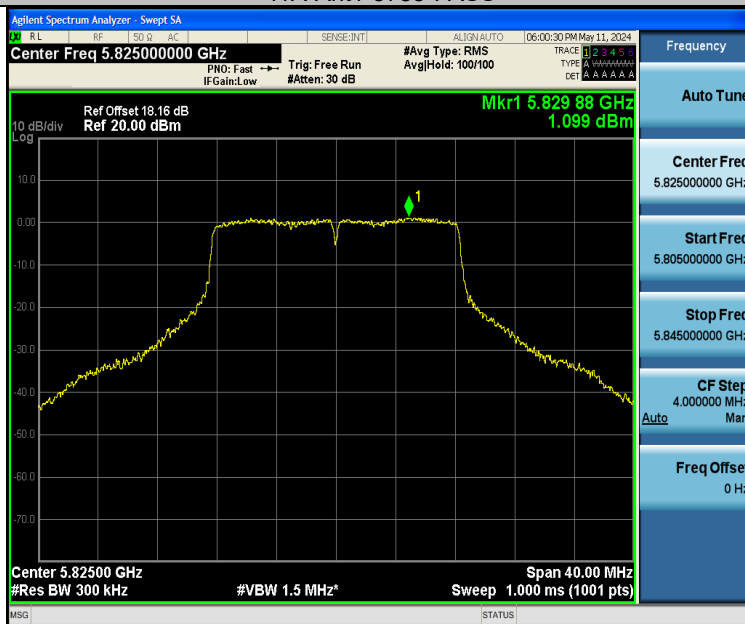
11A-Ant1-5240-PASS



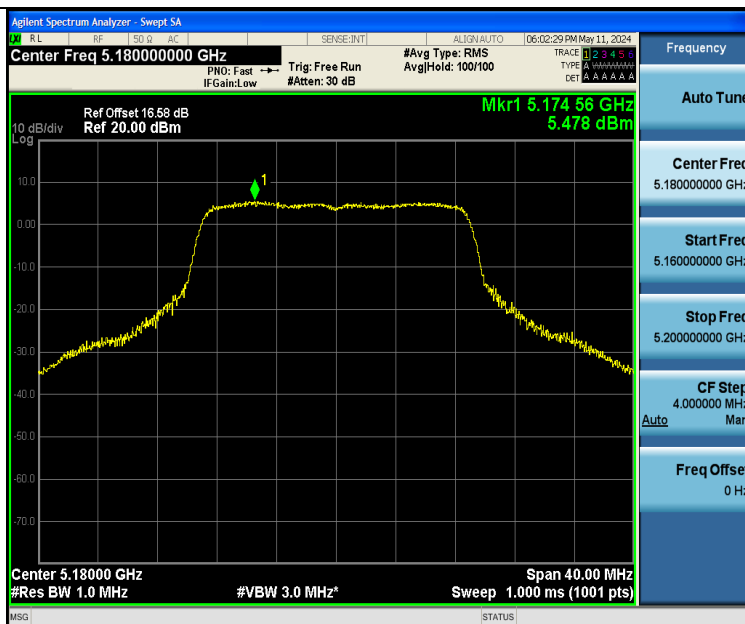
11A-Ant1-5745-PASS



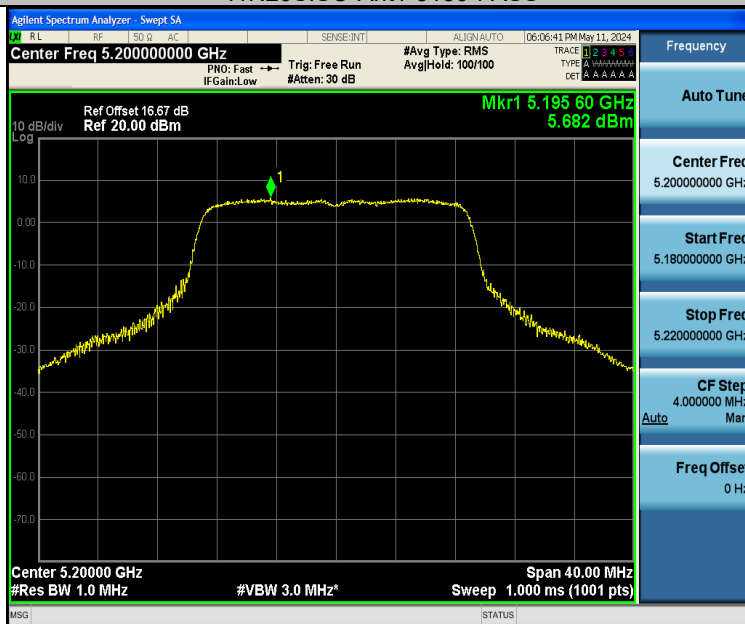
11A-Ant1-5785-PASS



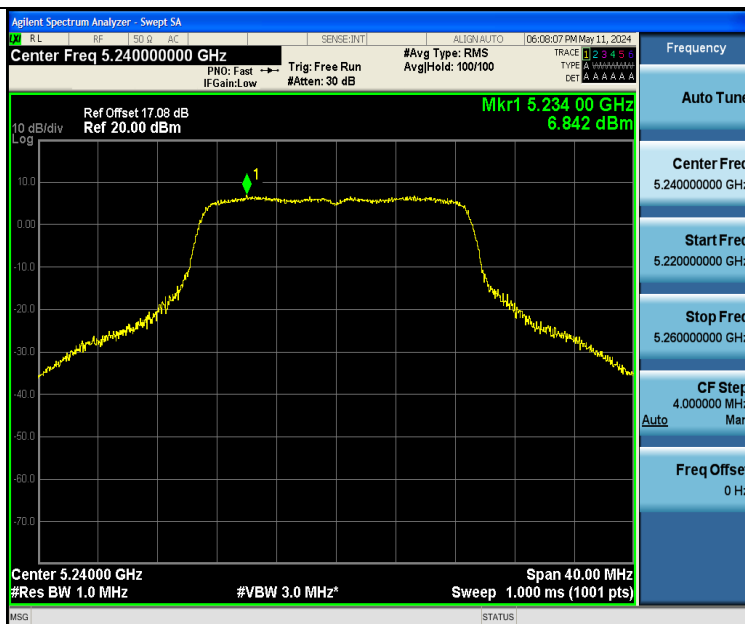
11A-Ant1-5825-PASS



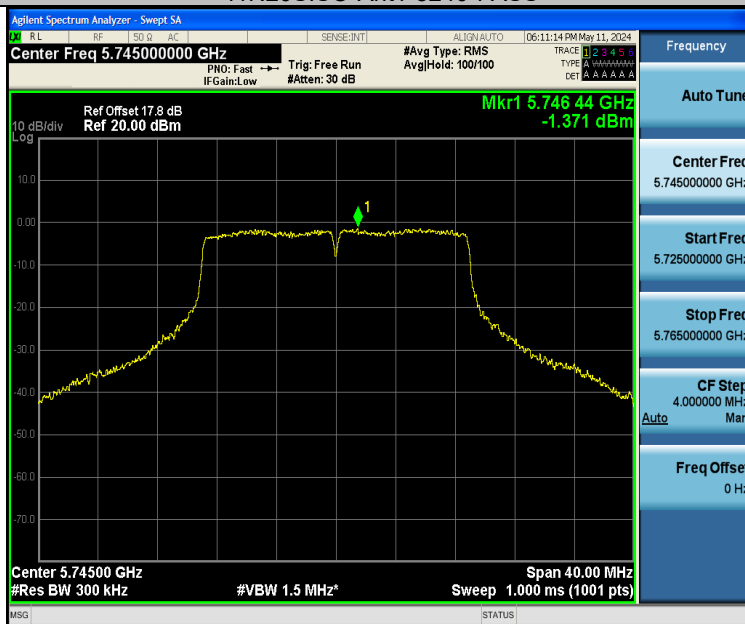
11N20SISO-Ant1-5180-PASS



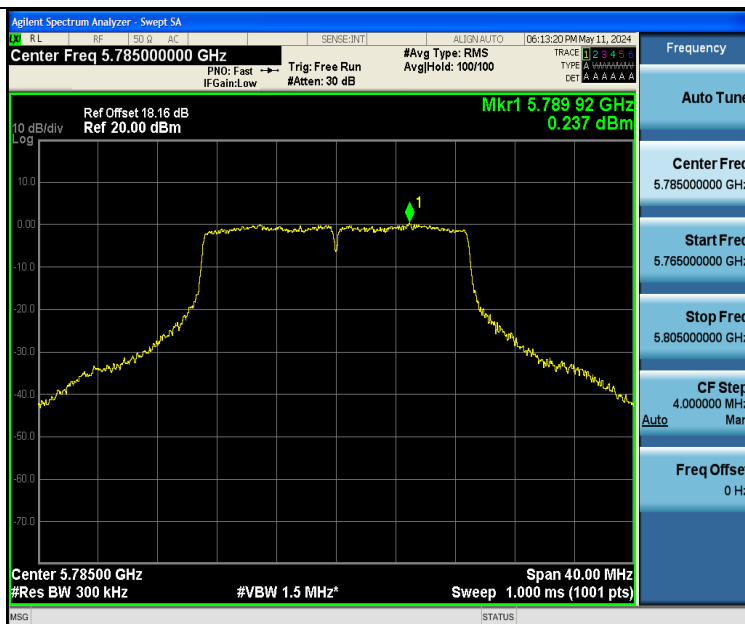
11N20SISO-Ant1-5200-PASS



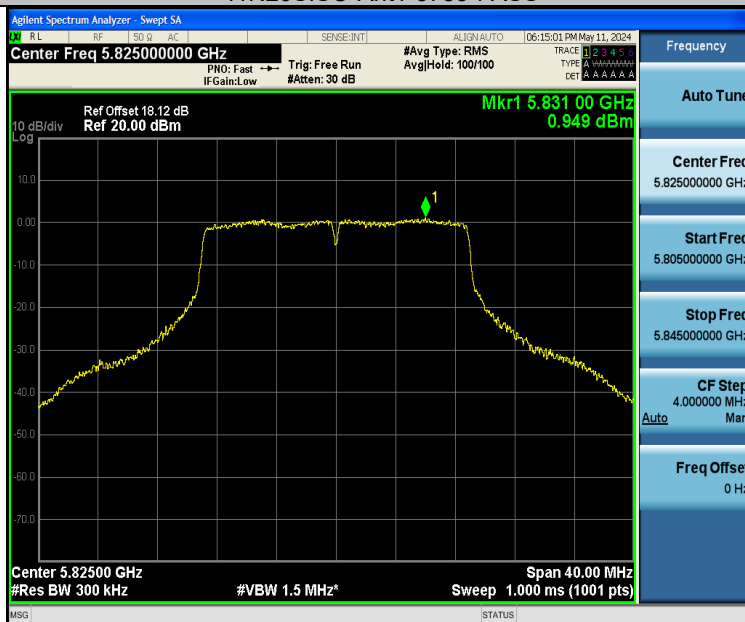
11N20SISO-Ant1-5240-PASS



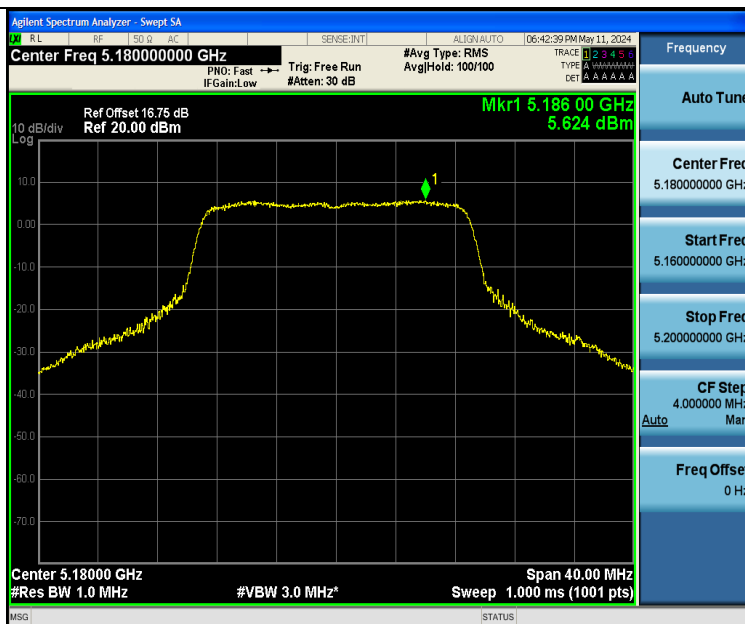
11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



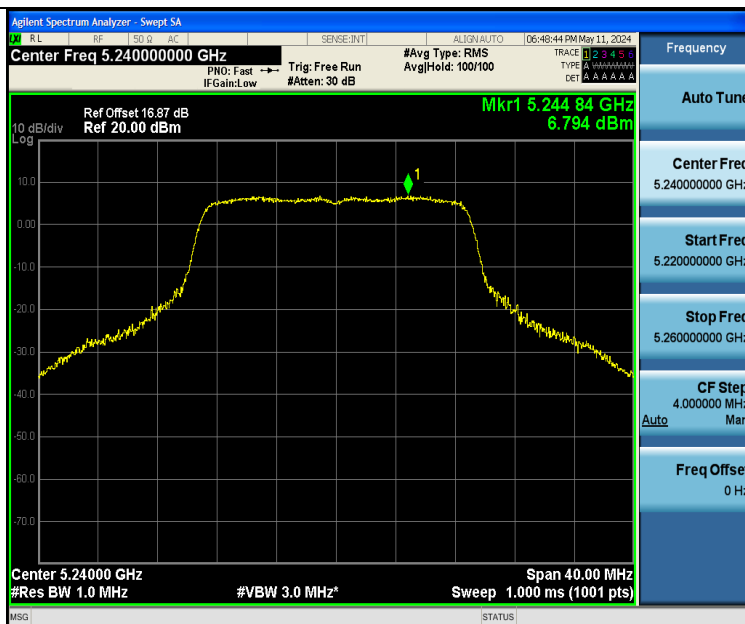
11N20SISO-Ant1-5825-PASS



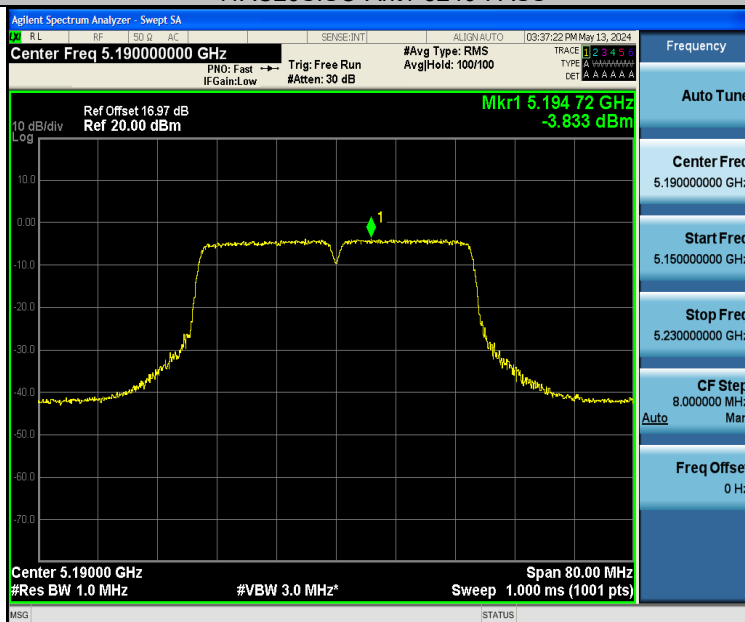
11AC20SISO-Ant1-5180-PASS



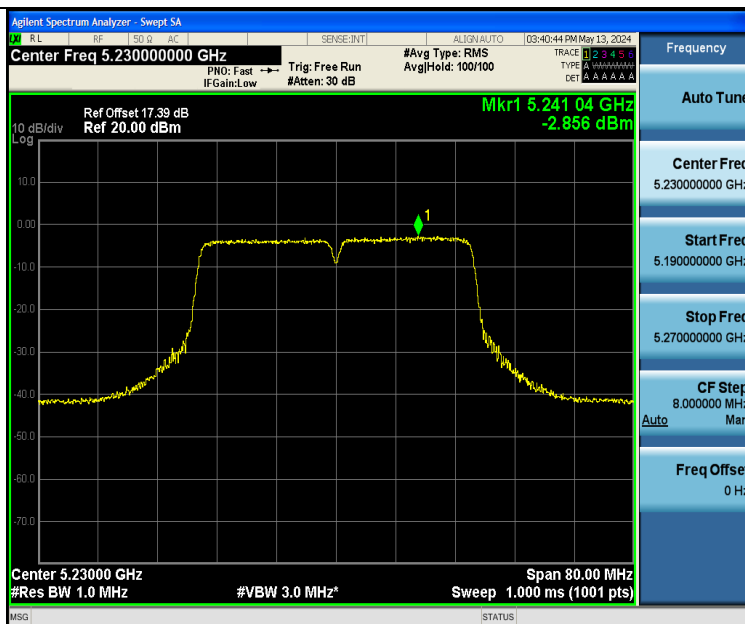
11AC20SISO-Ant1-5200-PASS



11AC20SISO-Ant1-5240-PASS



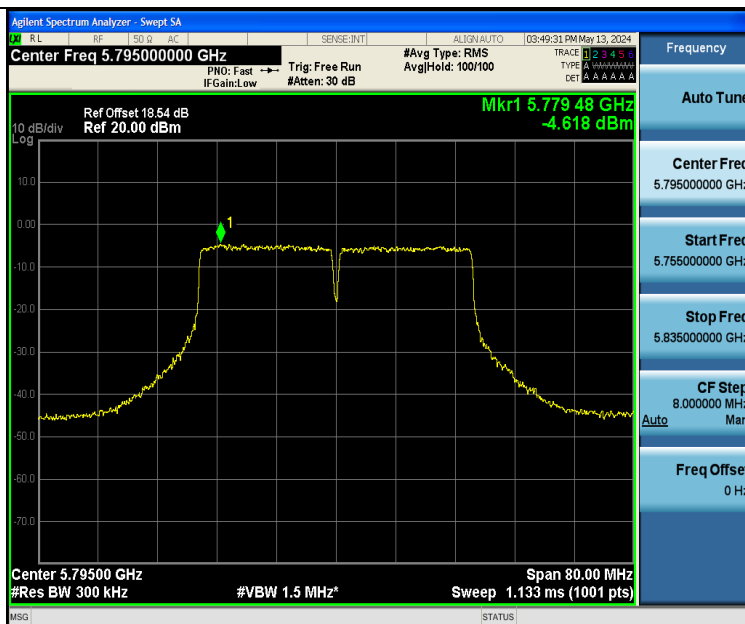
11N40SISO-Ant1-5190-PASS



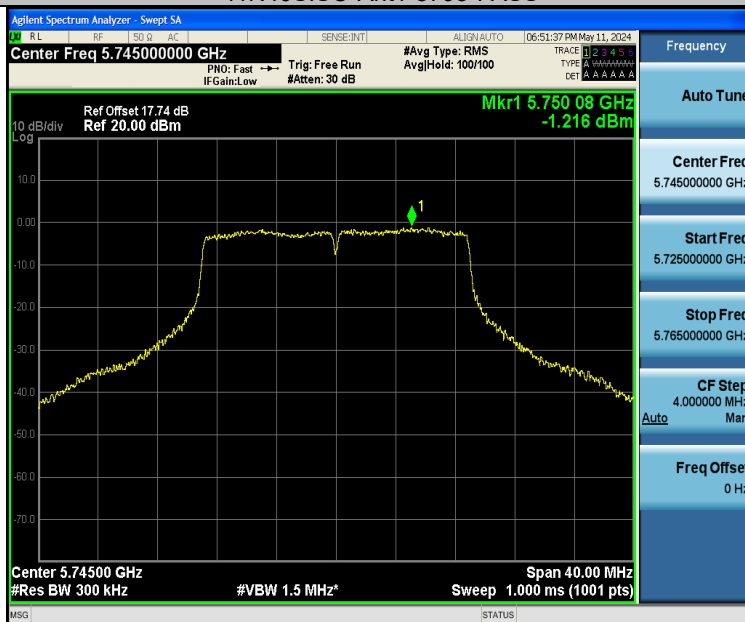
11N40SISO-Ant1-5230-PASS



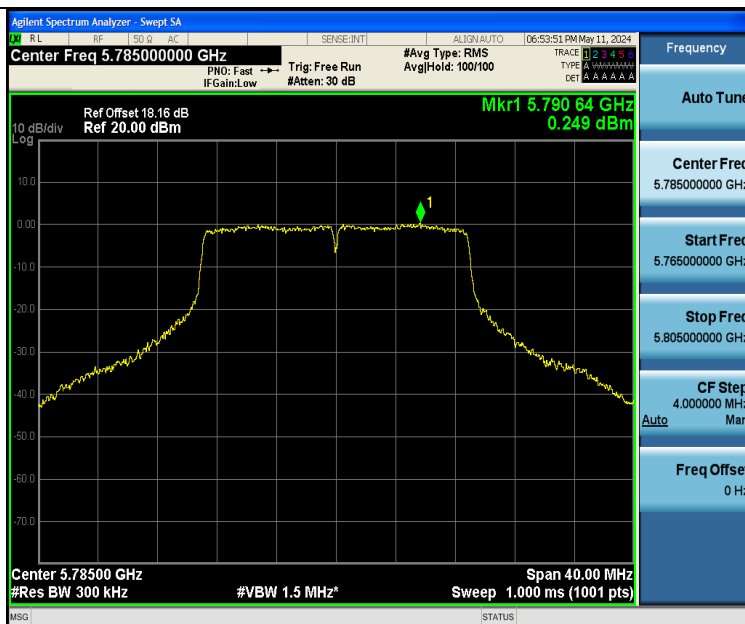
11N40SISO-Ant1-5755-PASS



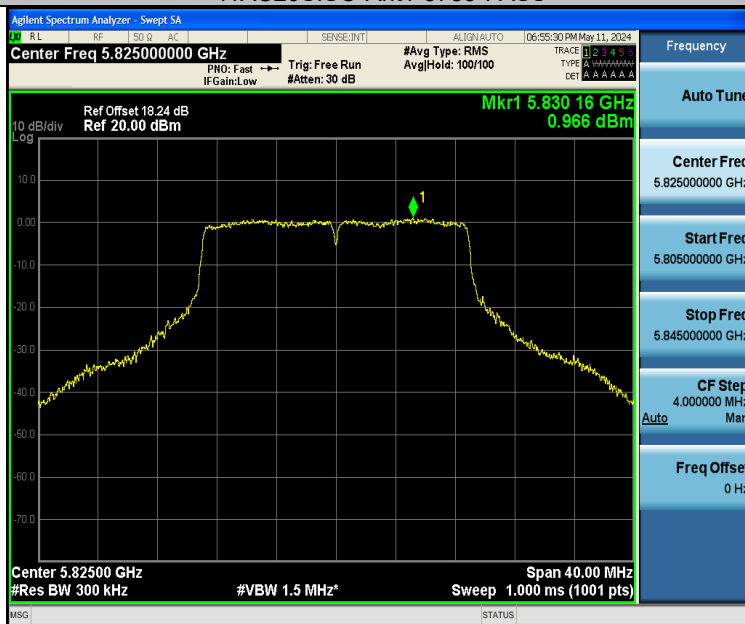
11N40SISO-Ant1-5795-PASS



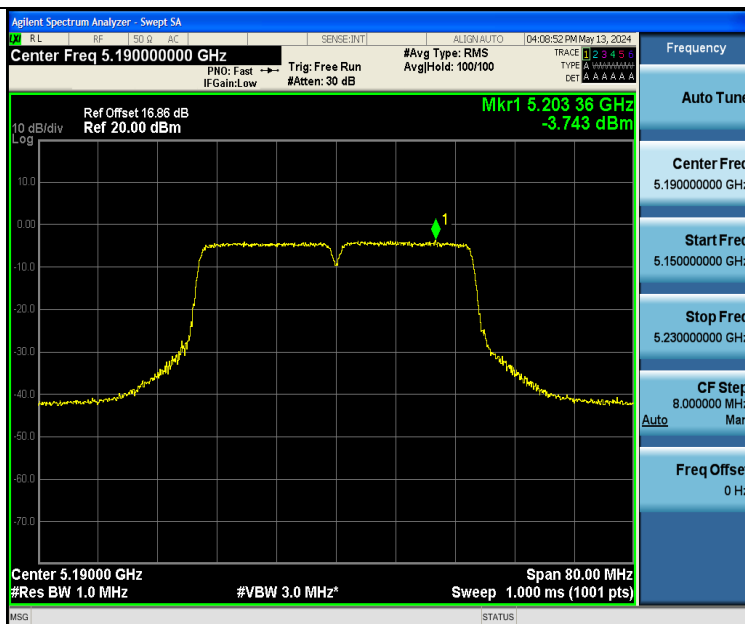
11AC20SISO-Ant1-5745-PASS



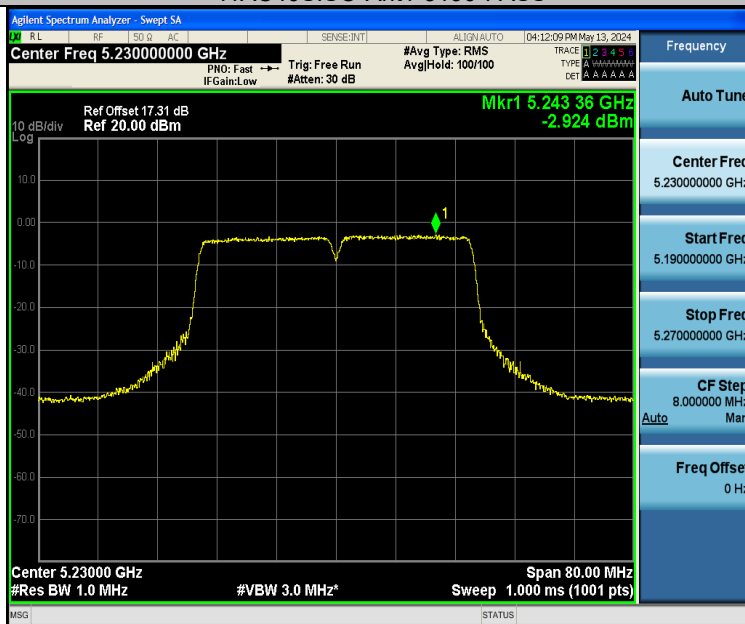
11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5230-PASS