

TEST REPORT

Product : WIFI Module
Trade mark : GSD
Model/Type reference : WC0PR1601, WC0PR1601F
Serial Number : N/A
Report Number : EED32L00074902
FCC ID : 2AC23-WC0PR1601
Date of Issue : Jun. 27, 2019
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

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Jun. 27, 2019



Check No.:3096396831

2 Version

Version No.	Date	Description
00	Jun. 27, 2019	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	ANSI C63.10-2013	PASS
Conducted Output Power and transmit power control mechanism	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1)	ANSI C63.10-2013	PASS
26dB Occupied Bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)	ANSI C63.10-2013	PASS
Peak Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5)	ANSI C63.10-2013	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	ANSI C63.10-2013	PASS
Operation in the absence of information to the transmit	47 CFR Part 15 Subpart E Section 15.407 (c)	47 CFR Part 15 Subpart E	PASS
Unwanted Emissions that fall Outside of the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5)	ANSI C63.10-2013	PASS
Unwanted Emissions in the Restricted Bands	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8)	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Model No.: WC0PR1601,WC0PR1601F

Only the model WC0PR1601 was tested, their electrical circuit design, layout, components used and internal wiring are identical ,but the SMT connector is different.

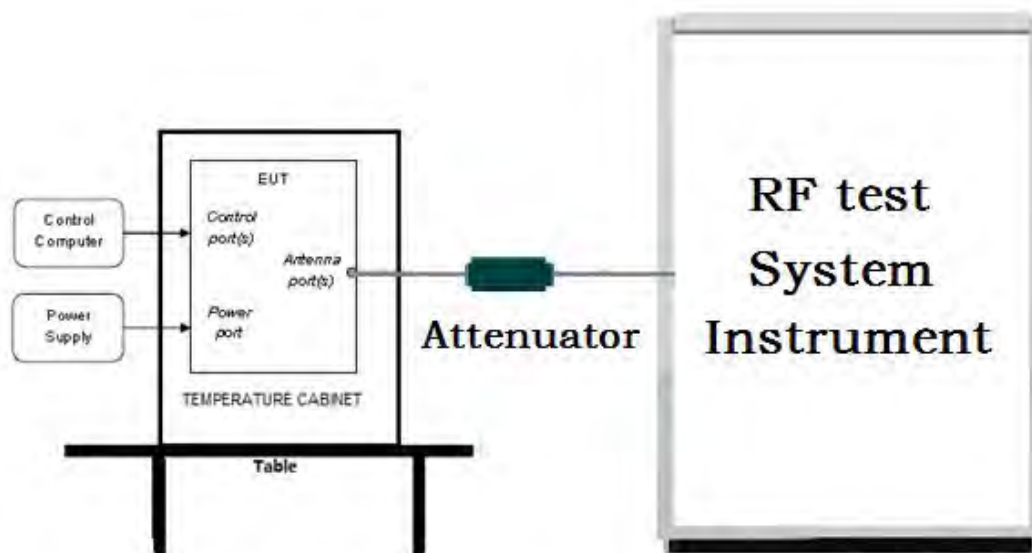
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

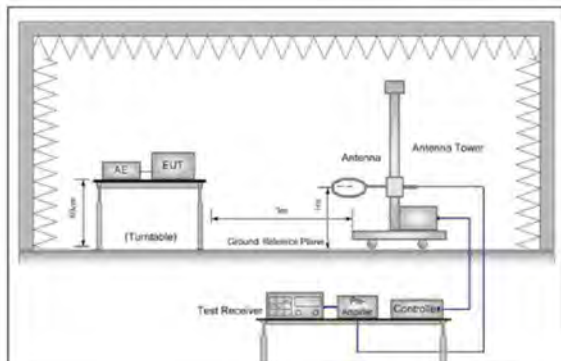


Figure 1. Below 30MHz

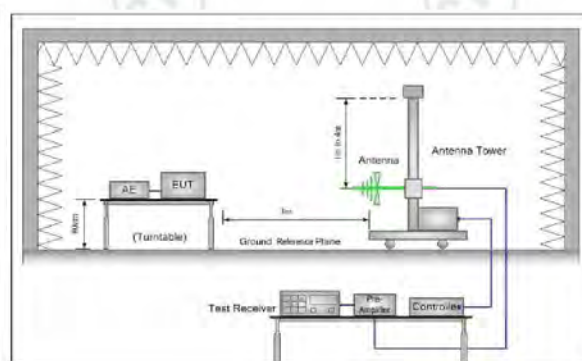


Figure 2. 30MHz to 1GHz

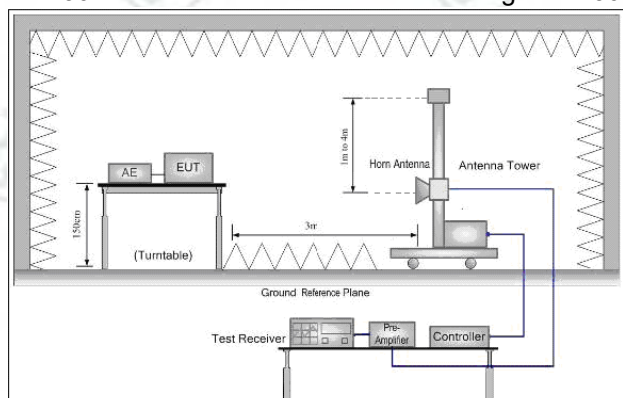
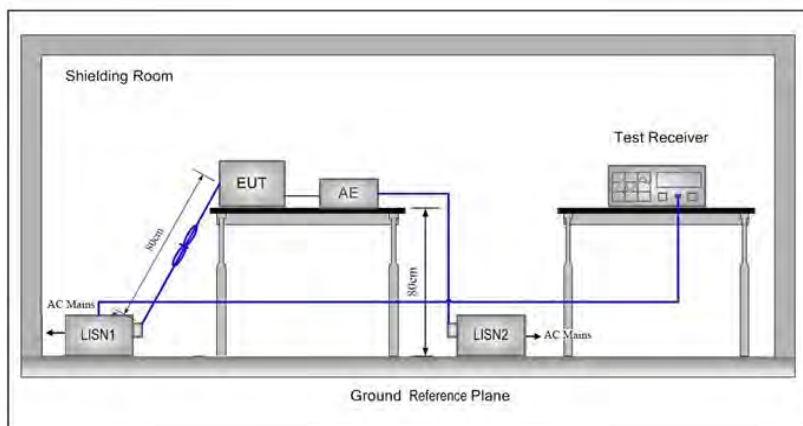


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment for RF test:

Temperature:	25°C
Humidity:	51% RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11a/n/ac(20M)	5150MHz ~5250 MHz	Channel 36	Channel 40	Channel 48
		5180MHz	5200MHz	5240MHz
802.11n/ac(40M)	5150MHz ~5250 MHz	Channel 38	N/A	Channel 46
		5190MHz	N/A	5230MHz
802.11ac(80M)	5150MHz ~5250 MHz	N/A	Channel 42	N/A
		N/A	5210MHz	N/A
802.11a/n/ac(20M)	5725MHz ~5850 MHz	Channel 149	Channel 157	Channel 165
		5745MHz	5785MHz	5825MHz
802.11n/ac(40M)	5725MHz ~5850 MHz	Channel 151	N/A	Channel 159
		5755MHz	N/A	5795MHz
802.11ac(80M)	5725MHz ~5850 MHz	N/A	Channel 155	N/A
		N/A	5775MHz	N/A

Test mode:
Pre-scan under all rate at lowest channel for Ant1

Mode	802.11a for 5150MHz ~5250 MHz							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	13.86	13.78	13.72	13.69	13.64	13.58	13.52	13.51
Mode	802.11n (20M) for 5150MHz ~5250 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	14.09	13.98	13.95	13.91	13.87	13.84	13.77	13.72
Mode	802.11ac (20M) for 5150MHz ~5250 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	13.83	13.81	13.79	13.76	13.71	13.68	13.64	13.55
Mode	802.11n(40M) for 5150MHz ~5250 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	13.18	13.15	13.11	13.09	13.07	13.04	12.98	12.97
Mode	802.11ac (40M) for 5150MHz ~5250 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	13.34	13.32	13.29	13.28	13.26	13.28	13.24	13.21
Mode	802.11ac(80M)for 5150MHz ~5250 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	8.27	8.26	8.24	8.25	8.19	8.14	8.16	8.21
Mode	802.11a for 5725MHz ~5850 MHz							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	14.33	14.9	14.30	4.25	14.26	14.21	14.23	14.20
Mode	802.11n (20M) for 5725MHz ~5850 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	14.49	14.46	14.42	14.43	14.45	14.32	14.38	14.36
Mode	802.11ac (20M) for 5725MHz ~5850 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	14.01	14.00	13.96	13.98	13.92	13.94	13.86	13.88
Mode	802.11n (40M) for 5725MHz ~5850 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	13.93	13.89	13.85	13.90	13.87	13.84	13.83	13.80
Mode	802.11ac (40M) for 5725MHz ~5850 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	13.89	13.82	13.84	13.86	13.78	13.79	13.75	13.71
Mode	802.11ac(80M)for 5725MHz ~5850 MHz							
Data Rate	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Power(dBm)	12.26	12.24	12.19	12.21	12.20	12.17	12.16	12.10

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11n (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac (20M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11n(40M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac (40M) for 5150MHz ~5250 MHz; MCS0 is the worst case of 802.11ac(80M)for 5150MHz ~5250 MHz; 6Mbps is the worst case of 802.11a (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11n (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac (20M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11n (40M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac (40M) for 5725MHz ~5850 MHz; MCS0 is the worst case of 802.11ac(80M)for 5725MHz ~5850 MHz.

6 General Information

6.1 Client Information

Applicant:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Applicant:	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Manufacturer:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Manufacturer:	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Factory:	Hui Zhou Gaoshengda Technology Co., LTD
Address of Factory:	NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

6.2 General Description of EUT

Product Name:	WIFI Module
Model No.(EUT):	WC0PR1601, WC0PR1601F
Test Model No.:	WC0PR1601
Trade Mark:	GSD
EUT Supports Radios application:	2.4G WiFi: IEEE802.11b/g/n(20MHz)/n(40MHz), 2412MHz-2462MHz 5G WiFi: IEEE802.11a/ac(HT20)/ac(HT40)/ac(HT80), 5150-5250MHz, 5725-5850MHz
Firmware version of the sample:	V1.0(manufacturer declare)
Hardware version of the sample:	V1.0(manufacturer declare)
Sample Received Date:	Apr. 04, 2019
Sample tested Date:	Apr. 15, 2019 to Jun. 26, 2019

6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE802.11ac(80M): 5150MHz ~5250 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz IEEE802.11ac(80M): 5725MHz ~5850 MHz
Channel Numbers:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel
Type of Modulation:	OFDM, DSSS
Test Power Grade:	N/A
Test Software of EUT:	Win7_MP_Kit_RTL11ac_8821CU_USB_v3.00_20171106(manufacturer declare)
Antenna Type:	PIFA Antenna
Antenna gain:	3dBi
Test Voltage:	DC 3.3V

Operation Frequency each of channel

For 802.11a/n/ac(20M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
36	5180MHz	44	5220MHz

40	5200MHz	48	5240MHz
----	---------	----	---------

For 802.11a/n/ac(20M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	NA	NA

For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
38	5190MHz	46	5230MHz
For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band			
Channel	Frequency	Channel	Frequency
42	5210MHz	NA	NA
For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band			
Channel	Frequency	Channel	Frequency
155	5775MHz	NA	NA

6.4 Description of Support Units

The EUT has been tested independently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Building C, Hongwei Ind. Zone, Baoan 70 District, Shenzhen, 518101, China

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty(95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-28-2020
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-28-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-20-2019	05-18-2020
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019	06-12-2020
Communication test set	Agilent	E5515C	GB47050 534	03-01-2019	02-29-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-08-2019	05-06-2020
LISN	schwarzbeck	NNLK8121	8121-529	05-08-2019	05-06-2020
Voltage Probe	R&S	ESH2-Z3 0299.7810.56	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-20-2019	05-18-2020
ISN	TESEQ	ISN T800	30297	01-06-2019	01-15-2020

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-22-2020
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-30-2018	07-29-2019
Microwave Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845 SE	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6041	08-08-2018	08-07-2019
Spectrum Analyzer	R&S	FSP40	100416	04-28-2019	04-26-2020
Receiver	R&S	ESCI	100435	05-20-2019	05-18-2020
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/10711112	---	01-09-2019	01-08-2020
LISN	schwarzbeck	NNBM8125	81251547	05-08-2019	05-06-2020
LISN	schwarzbeck	NNBM8125	81251548	05-08-2019	05-06-2020
Signal Generator	Agilent	E4438C	MY45095744	03-01-2019	02-28-2020
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2020
Cable line	Fulai(7M)	SF106	5219/6A	01-09-2019	01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-09-2019	01-08-2020
Communication test set	R&S	CMW500	104466	01-18-2019	01-17-2020
High-pass filter	Sinoscite	FL3CX03WG18NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA09CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03CL12-0394-001	---	01-09-2019	01-08-2020

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15E	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB789033 D02 General UNII Test Procedures New Rules v01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15 subpart E
4	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15E Section 15.407 (a)(1)(2)(4)(h)(1)	KDB789033 D02v01	Conducted Output Power and transmit power control mechanism	PASS	Appendix A)
Part15E Section 15.407 (a)(1)(2)	KDB789033 D02v01	26dB Occupied Bandwidth	PASS	Appendix B)
Part15E Section 15.407 (a)(1)(2)(5)	KDB789033 D02v01	Power Spectral Density	PASS	Appendix C)
Part15E Section 15.407 (b)(1)to(6)	KDB789033 D02v01	Band Edge Measurements	PASS	Appendix D)
Part15E Section 15.407 (g)	KDB789033 D02v01	Frequency stability	PASS	Appendix E)
Part15C Section 15.203	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15E Section 15.407 (c)	Section 15.407	Operation in the absence of information to the transmit	PASS	Appendix G)
Part15E Section 15.407 (b)(6)	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix H)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix I)
Part15E Section 15.407 (b)(6)(7)(8)	KDB789033 D02v01	Unwanted Emissions in the Restricted Bands	PASS	Appendix J)
Part15E Section 15.407 (b)(1)(2)(3)(5)	KDB789033 D02v01	Unwanted Emissions that fall Outside of the Restricted Bands	PASS	Appendix K)

Appendix A): Emission Bandwidth

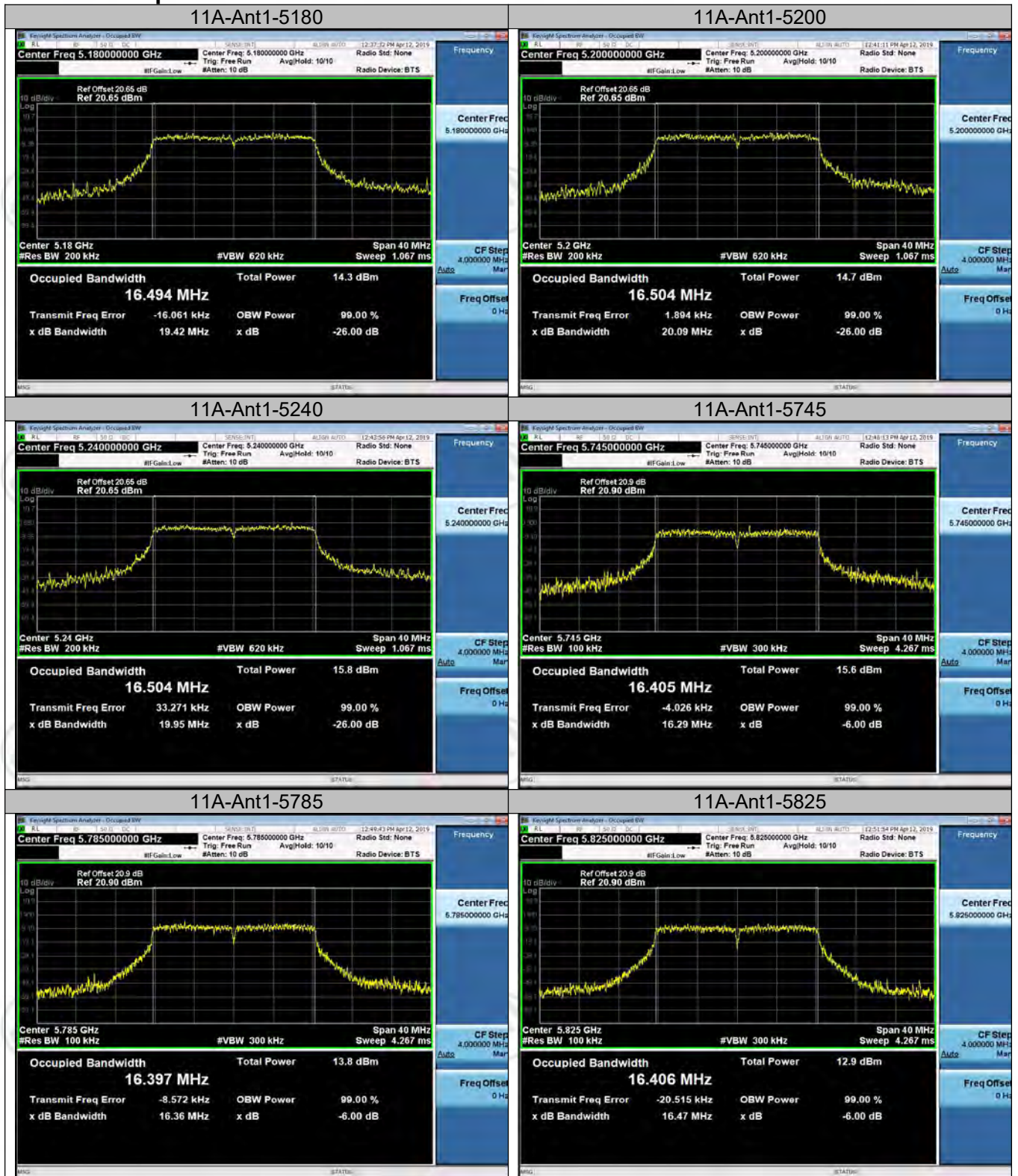
Result Table

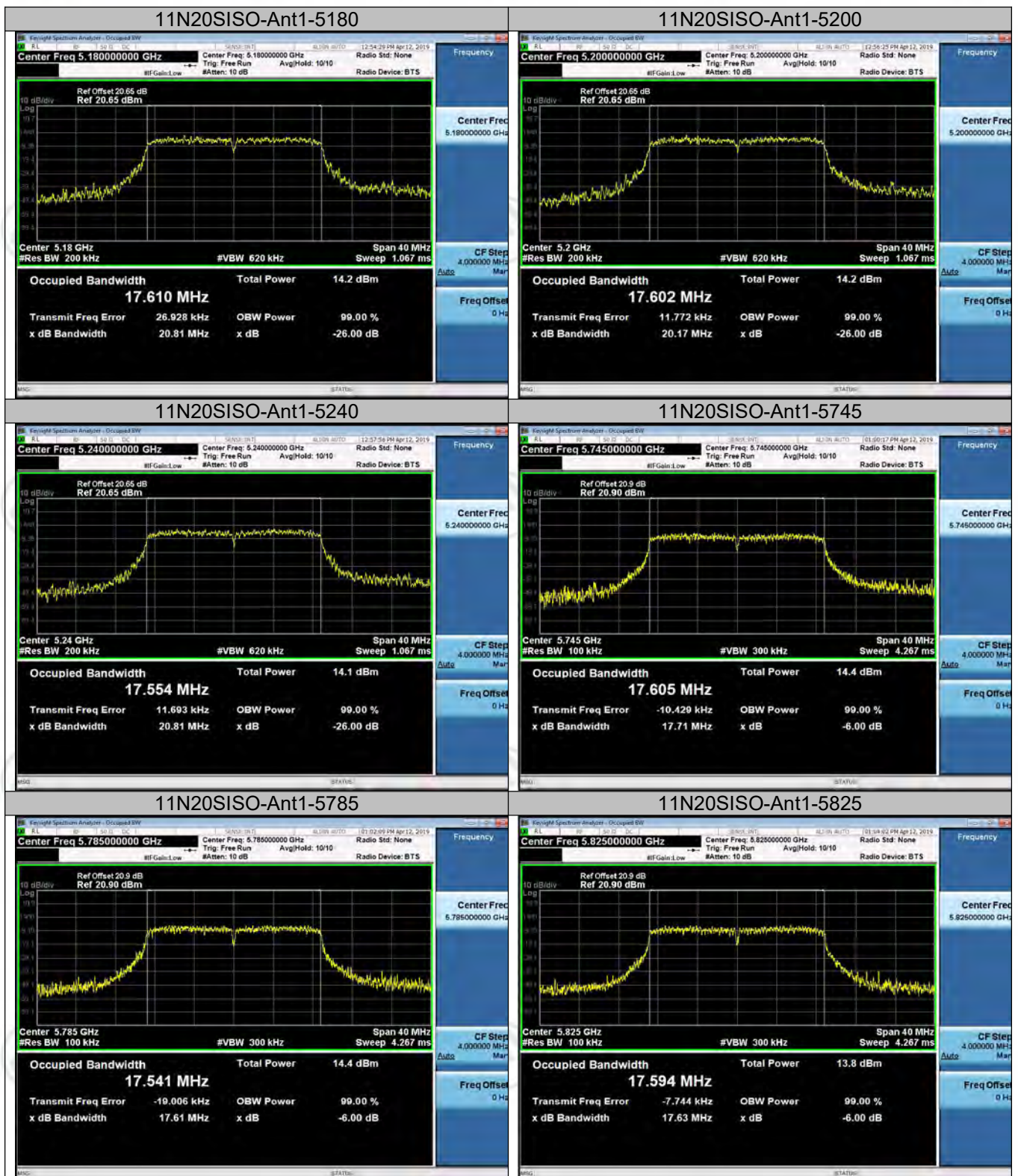
WC0PR1601: Antenna 2

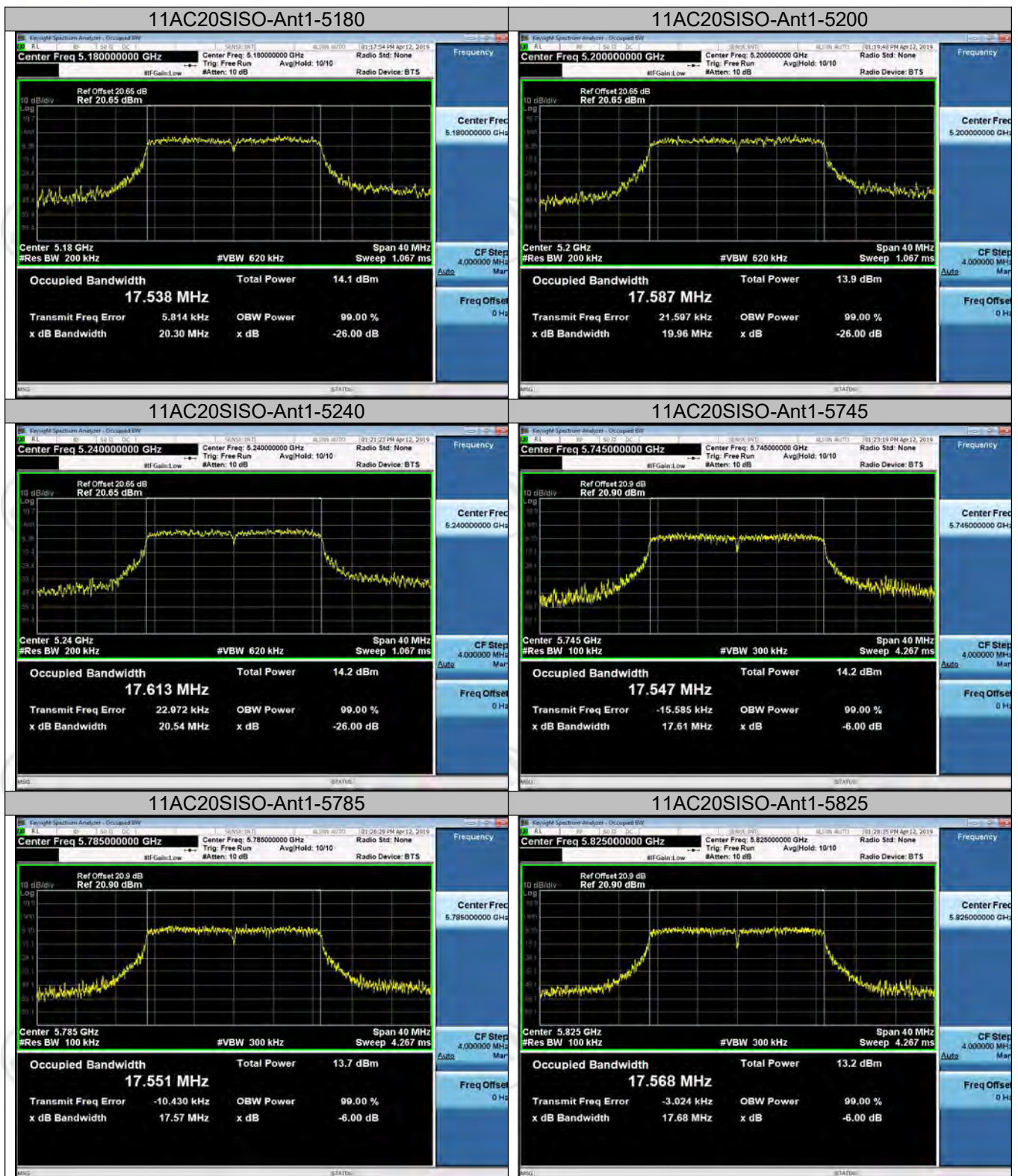
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	19.42	16.494	PASS
11A	Ant1	5200	20.09	16.504	PASS
11A	Ant1	5240	19.95	16.504	PASS
11A	Ant1	5745	16.29	16.405	PASS
11A	Ant1	5785	16.36	16.397	PASS
11A	Ant1	5825	16.47	16.406	PASS
11N20SISO	Ant1	5180	20.81	17.610	PASS
11N20SISO	Ant1	5200	20.17	17.602	PASS
11N20SISO	Ant1	5240	20.81	17.554	PASS
11N20SISO	Ant1	5745	17.71	17.605	PASS
11N20SISO	Ant1	5785	17.61	17.541	PASS
11N20SISO	Ant1	5825	17.63	17.594	PASS
11AC20SISO	Ant1	5180	20.30	17.538	PASS
11AC20SISO	Ant1	5200	19.96	17.587	PASS
11AC20SISO	Ant1	5240	20.54	17.613	PASS
11AC20SISO	Ant1	5745	17.61	17.547	PASS
11AC20SISO	Ant1	5785	17.57	17.551	PASS
11AC20SISO	Ant1	5825	17.68	17.568	PASS
11N40SISO	Ant1	5190	41.16	35.912	PASS
11N40SISO	Ant1	5230	39.91	35.963	PASS
11N40SISO	Ant1	5755	36.34	35.951	PASS
11N40SISO	Ant1	5795	35.84	35.887	PASS
11AC40SISO	Ant1	5190	40.86	35.924	PASS
11AC40SISO	Ant1	5230	40.83	36.056	PASS
11AC40SISO	Ant1	5755	36.13	35.940	PASS
11AC40SISO	Ant1	5795	33.42	35.919	PASS
11AC80SISO	Ant1	5210	79.17	75.188	PASS
11AC80SISO	Ant1	5775	72.58	75.233	PASS

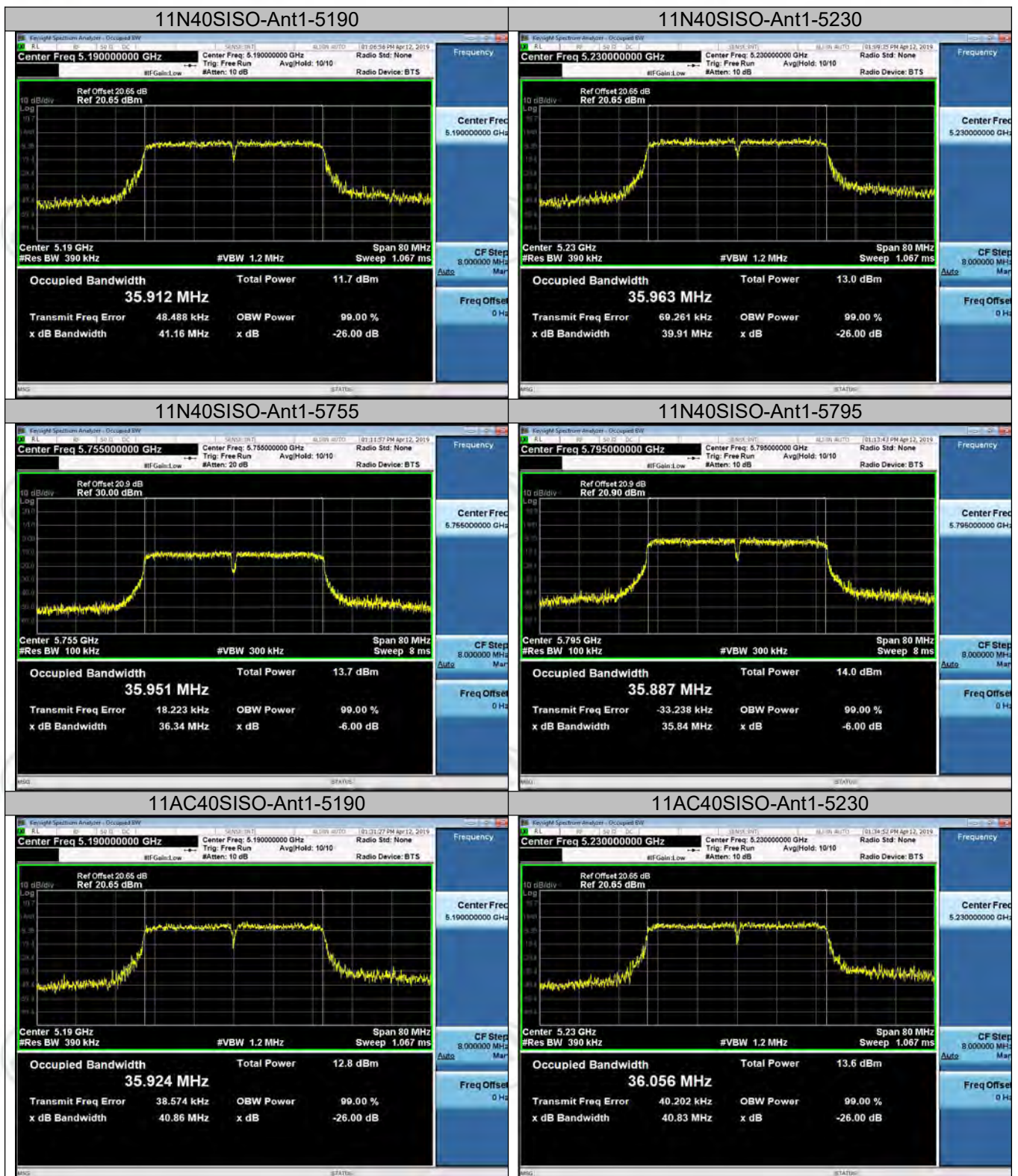
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant2	5180	20.44	16.521	PASS
11A	Ant2	5200	20.09	16.449	PASS
11A	Ant2	5240	20.20	16.537	PASS
11A	Ant2	5745	16.19	16.434	PASS
11A	Ant2	5785	16.08	16.420	PASS
11A	Ant2	5825	16.28	16.415	PASS
11N20SISO	Ant2	5180	20.85	17.598	PASS
11N20SISO	Ant2	5200	20.22	17.570	PASS
11N20SISO	Ant2	5240	19.93	17.645	PASS
11N20SISO	Ant2	5745	16.06	17.599	PASS
11N20SISO	Ant2	5785	17.14	17.573	PASS
11N20SISO	Ant2	5825	17.54	17.573	PASS
11AC20SISO	Ant2	5180	20.78	17.688	PASS
11AC20SISO	Ant2	5200	20.45	17.643	PASS
11AC20SISO	Ant2	5240	20.61	17.630	PASS
11AC20SISO	Ant2	5745	17.58	17.579	PASS
11AC20SISO	Ant2	5785	17.29	17.565	PASS
11AC20SISO	Ant2	5825	17.28	17.573	PASS
11N40SISO	Ant2	5190	41.67	36.061	PASS
11N40SISO	Ant2	5230	41.58	36.074	PASS
11N40SISO	Ant2	5755	35.16	36.086	PASS
11N40SISO	Ant2	5795	35.64	36.087	PASS
11AC40SISO	Ant2	5190	40.02	36.128	PASS
11AC40SISO	Ant2	5230	40.15	36.051	PASS
11AC40SISO	Ant2	5755	34.66	36.082	PASS
11AC40SISO	Ant2	5795	35.06	36.083	PASS
11AC80SISO	Ant2	5210	80.35	75.159	PASS
11AC80SISO	Ant2	5775	71.99	75.060	PASS

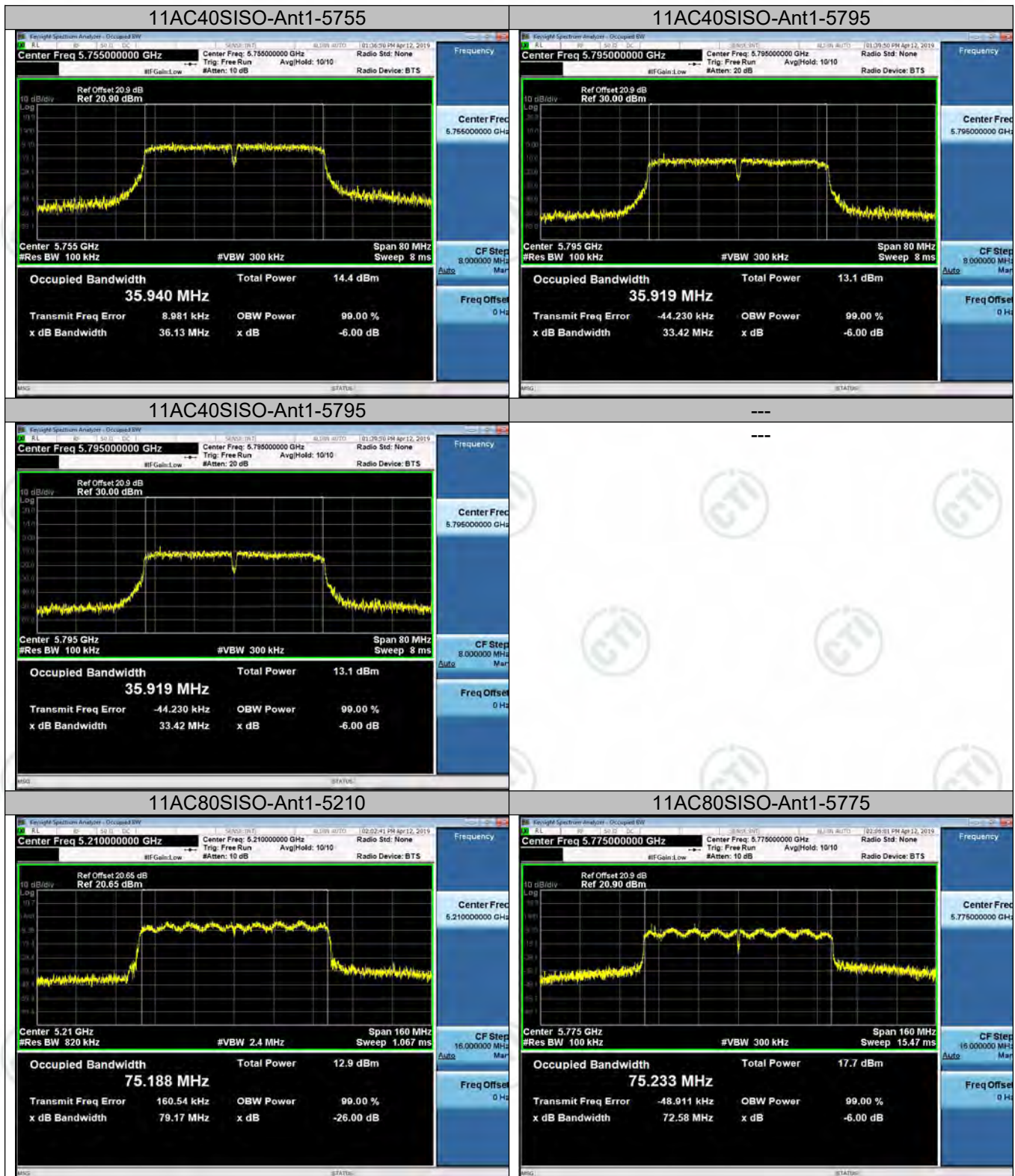
Test Graph

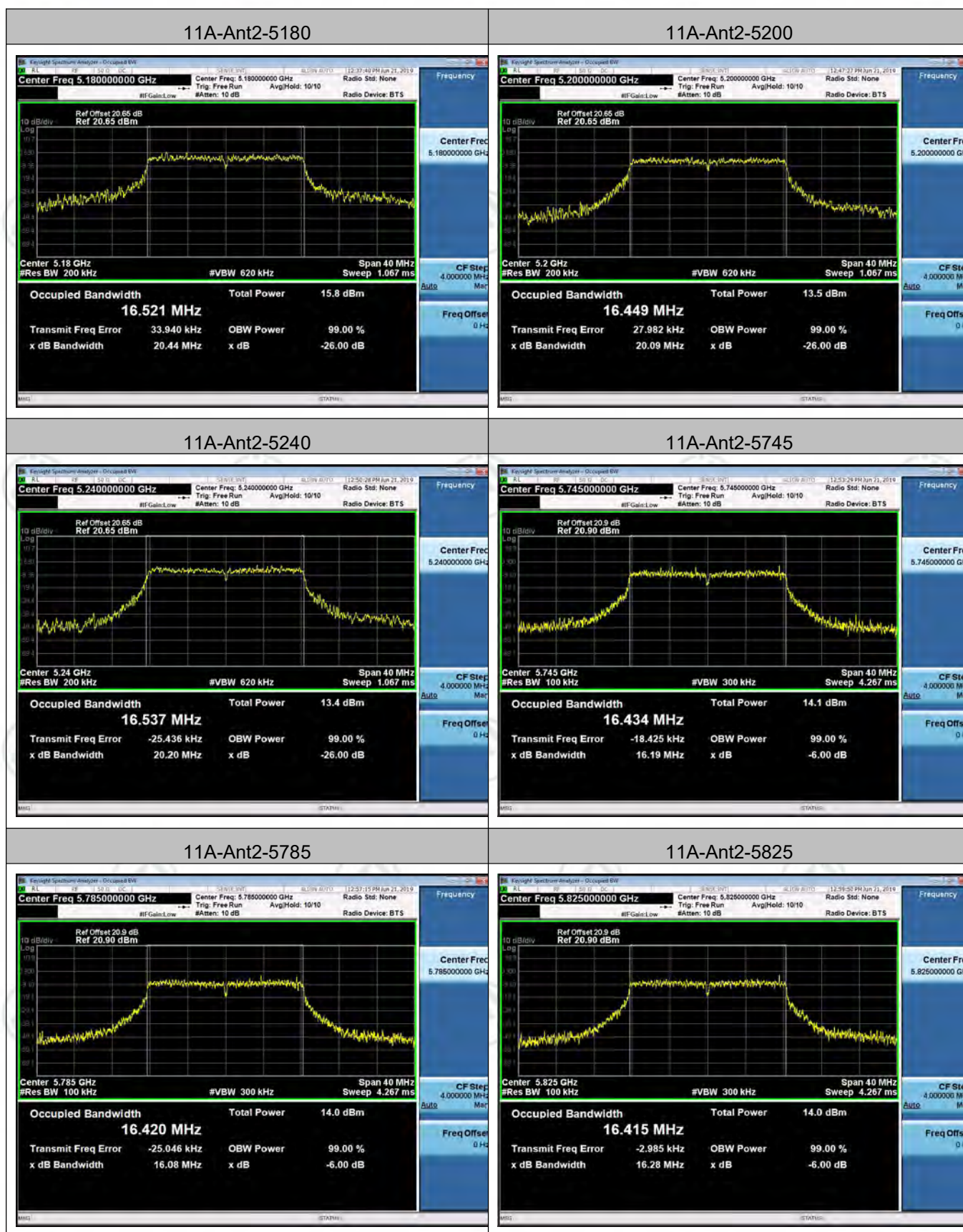


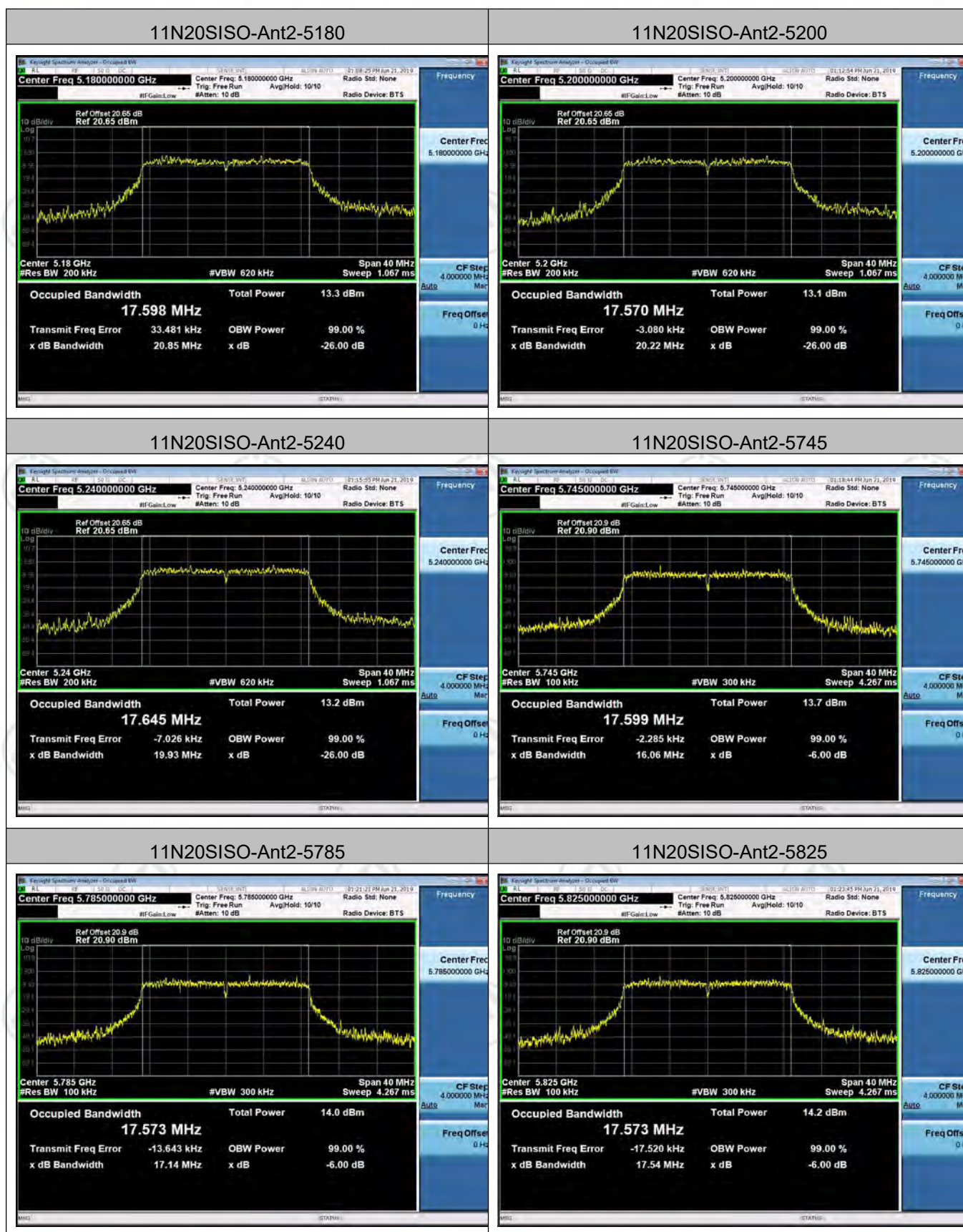


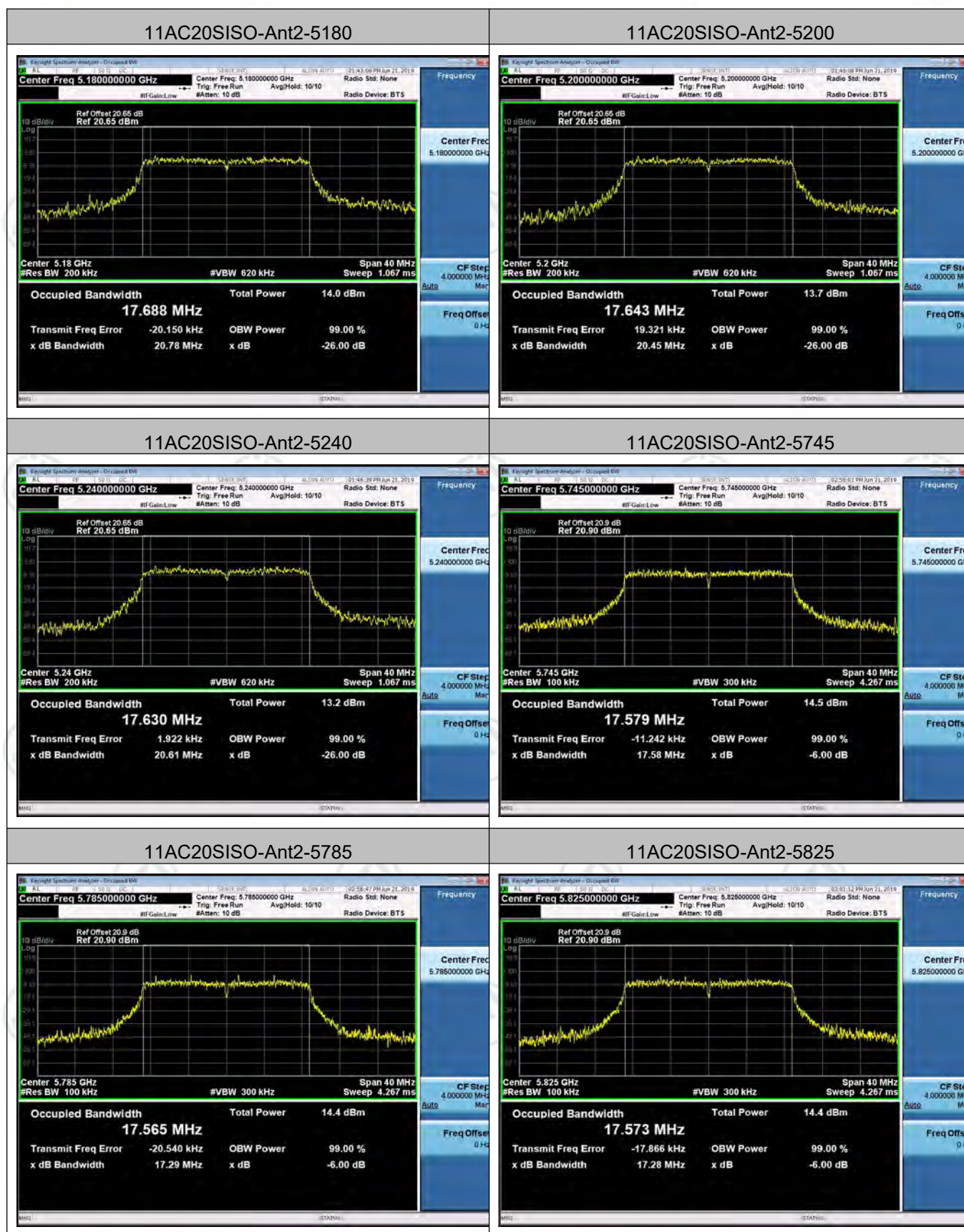


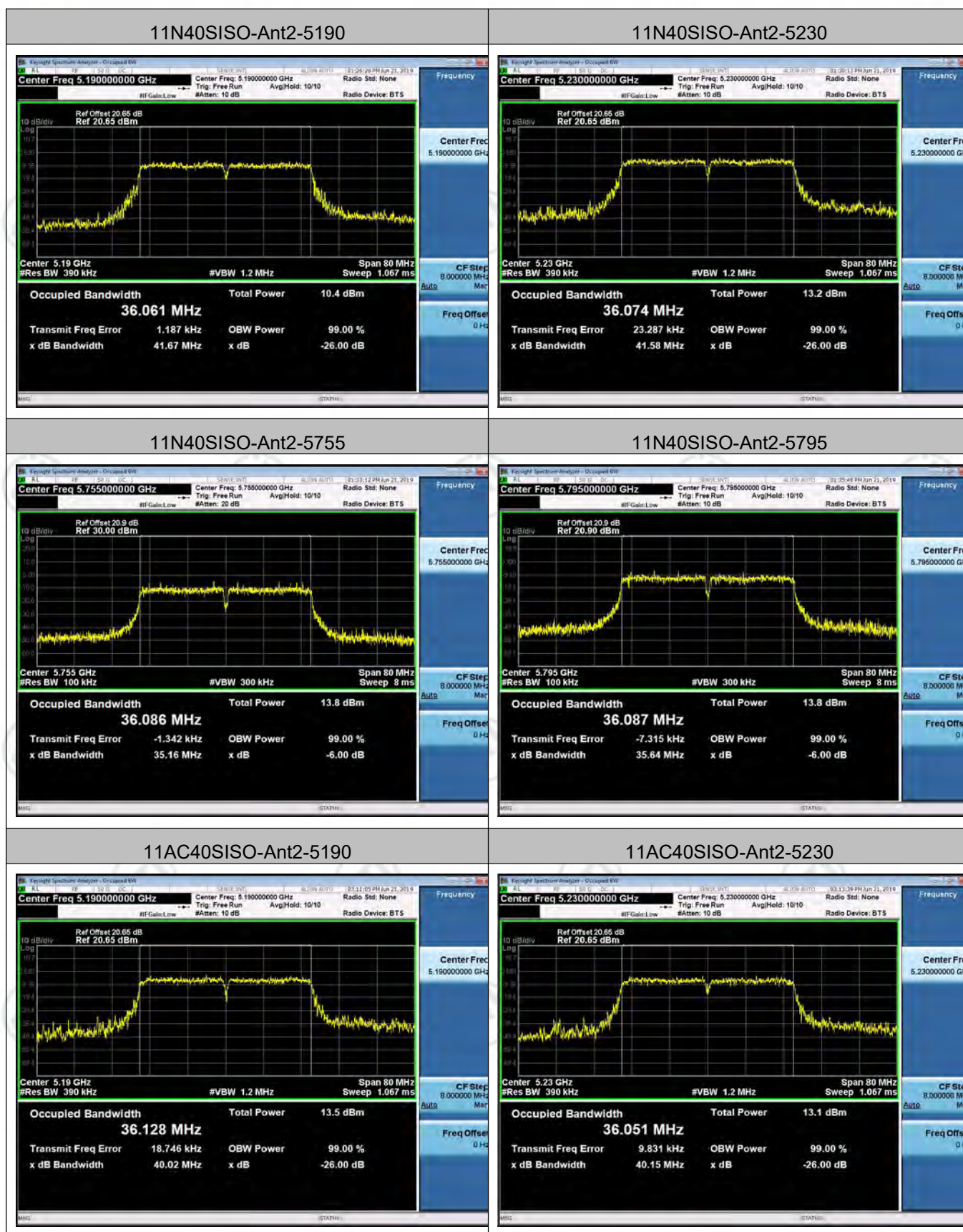


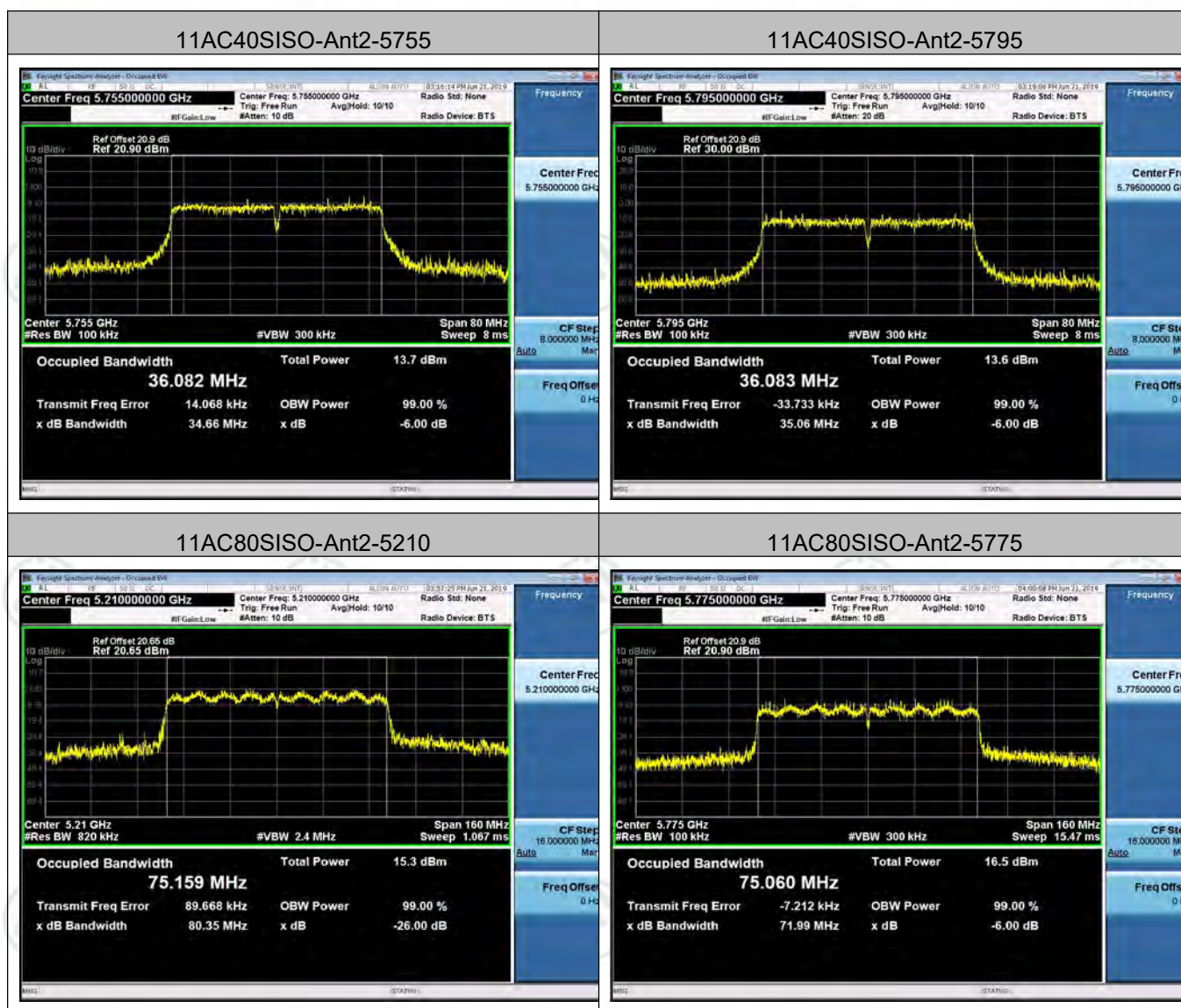












Appendix B): Maximum Conduct Output Power

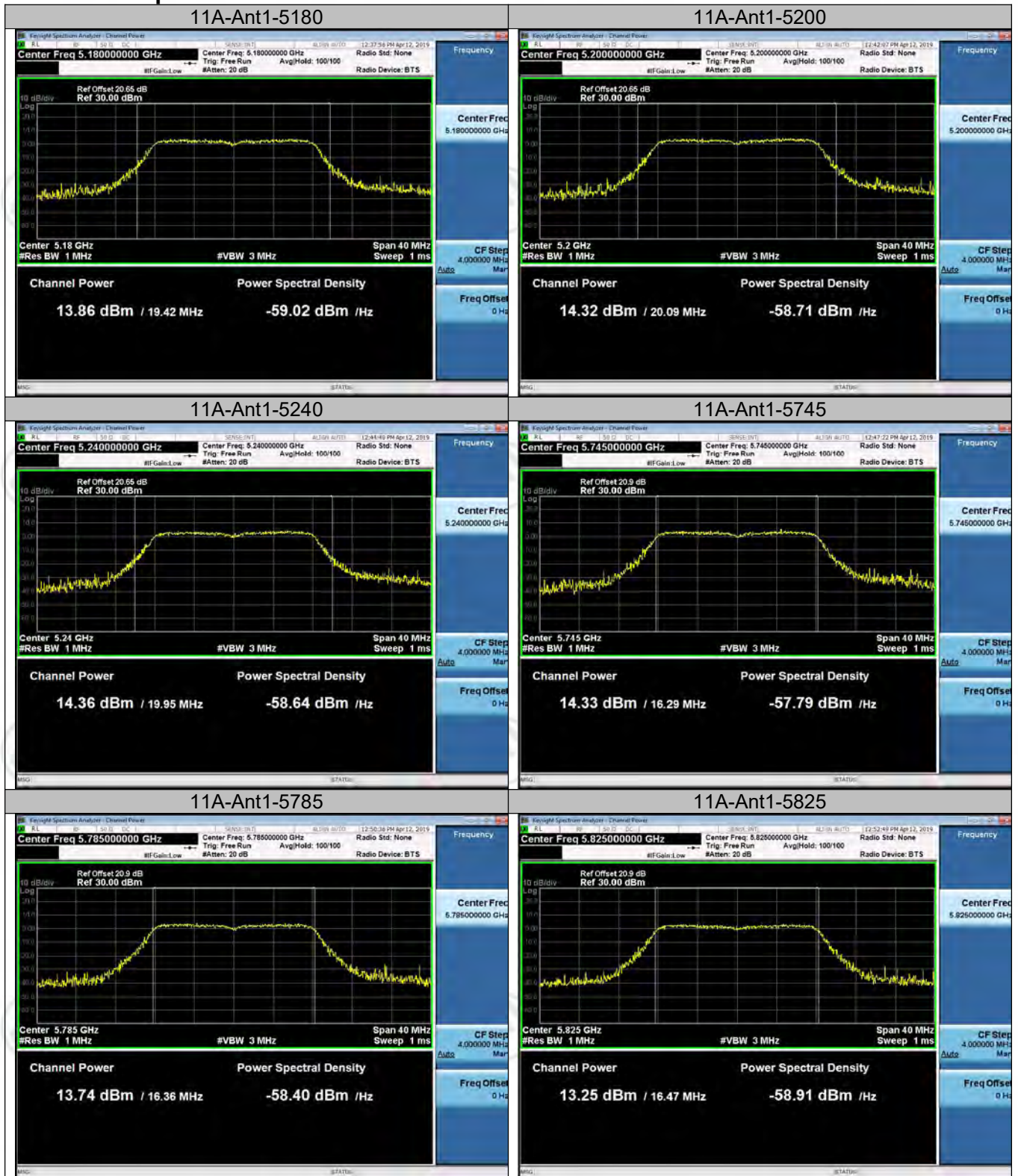
Result Table

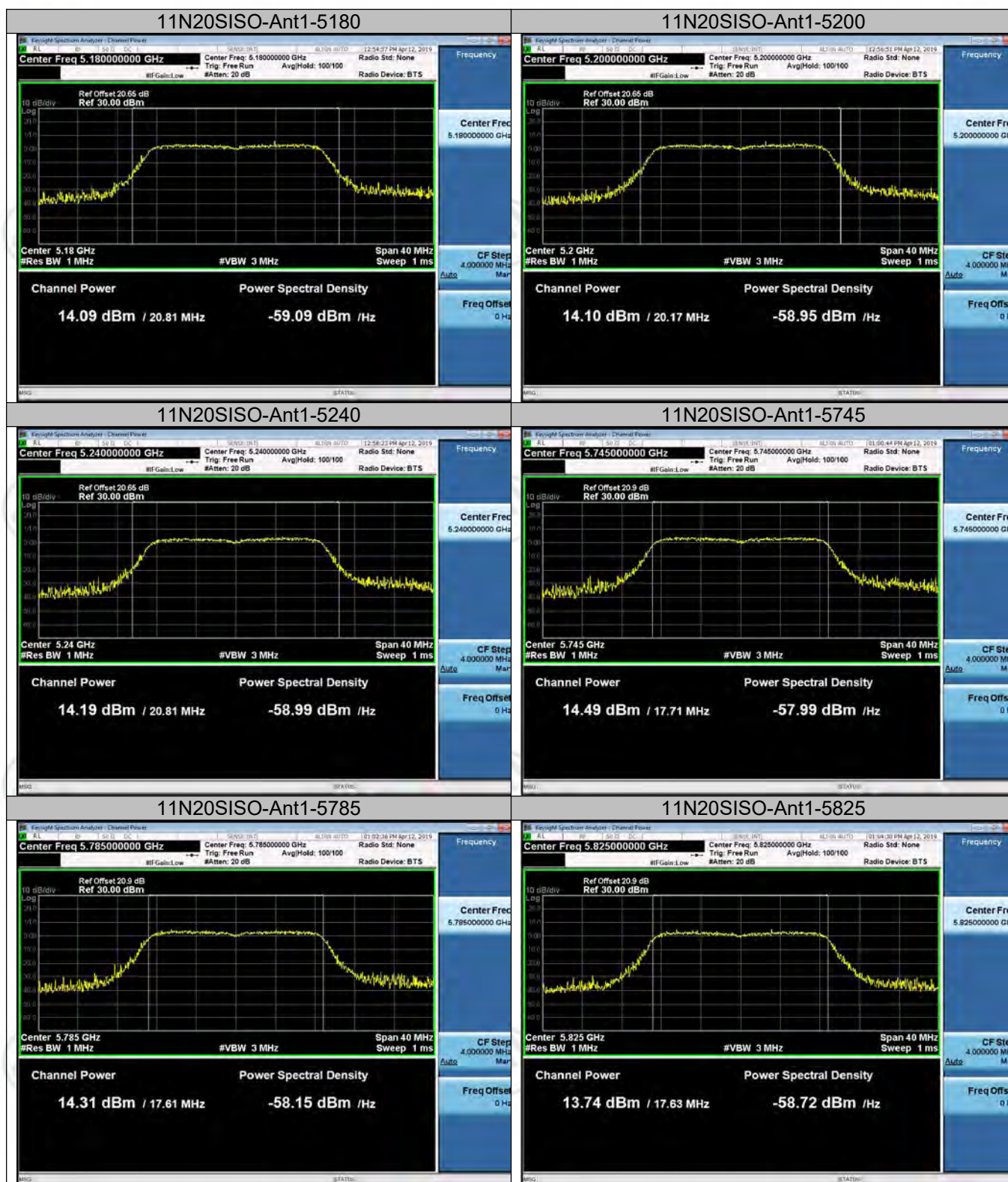
WC0PR1601: Antenna 2

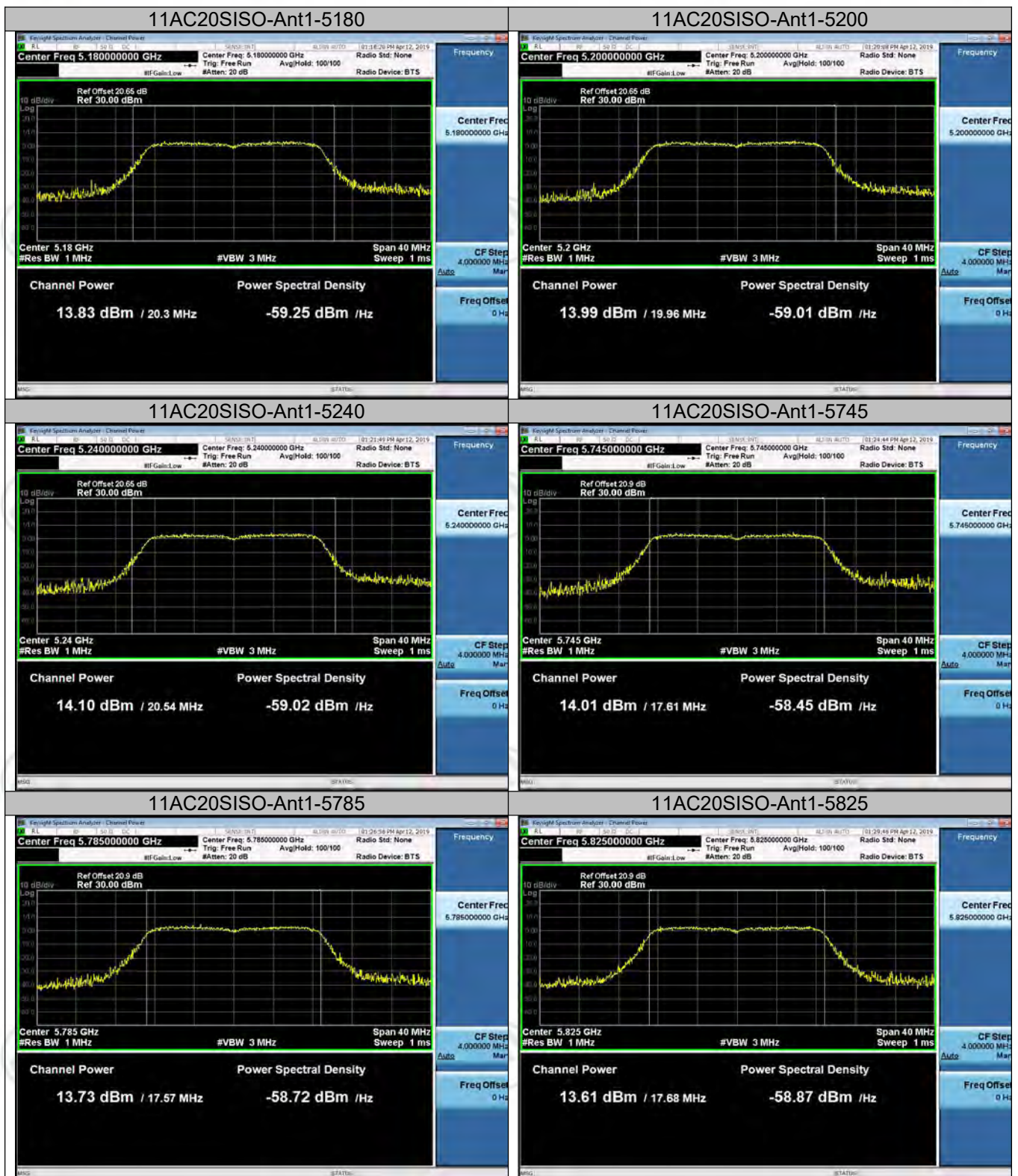
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant1	5180	13.86	13.86	PASS
11A	Ant1	5200	14.32	14.32	PASS
11A	Ant1	5240	14.36	14.36	PASS
11A	Ant1	5745	14.33	14.33	PASS
11A	Ant1	5785	13.74	13.74	PASS
11A	Ant1	5825	13.25	13.25	PASS
11N20SISO	Ant1	5180	14.09	14.09	PASS
11N20SISO	Ant1	5200	14.1	14.1	PASS
11N20SISO	Ant1	5240	14.19	14.19	PASS
11N20SISO	Ant1	5745	14.49	14.49	PASS
11N20SISO	Ant1	5785	14.31	14.31	PASS
11N20SISO	Ant1	5825	13.74	13.74	PASS
11AC20SISO	Ant1	5180	13.83	13.83	PASS
11AC20SISO	Ant1	5200	13.99	13.99	PASS
11AC20SISO	Ant1	5240	14.1	14.1	PASS
11AC20SISO	Ant1	5745	14.01	14.01	PASS
11AC20SISO	Ant1	5785	13.73	13.73	PASS
11AC20SISO	Ant1	5825	13.61	13.61	PASS
11N40SISO	Ant1	5190	13.18	13.18	PASS
11N40SISO	Ant1	5230	13.1	13.1	PASS
11N40SISO	Ant1	5755	13.93	13.93	PASS
11N40SISO	Ant1	5795	13.51	13.51	PASS
11AC40SISO	Ant1	5190	13.34	13.34	PASS
11AC40SISO	Ant1	5230	13.41	13.41	PASS
11AC40SISO	Ant1	5755	13.89	13.89	PASS
11AC40SISO	Ant1	5795	13.37	13.37	PASS
11AC80SISO	Ant1	5210	8.27	8.27	PASS
11AC80SISO	Ant1	5775	12.26	12.26	PASS

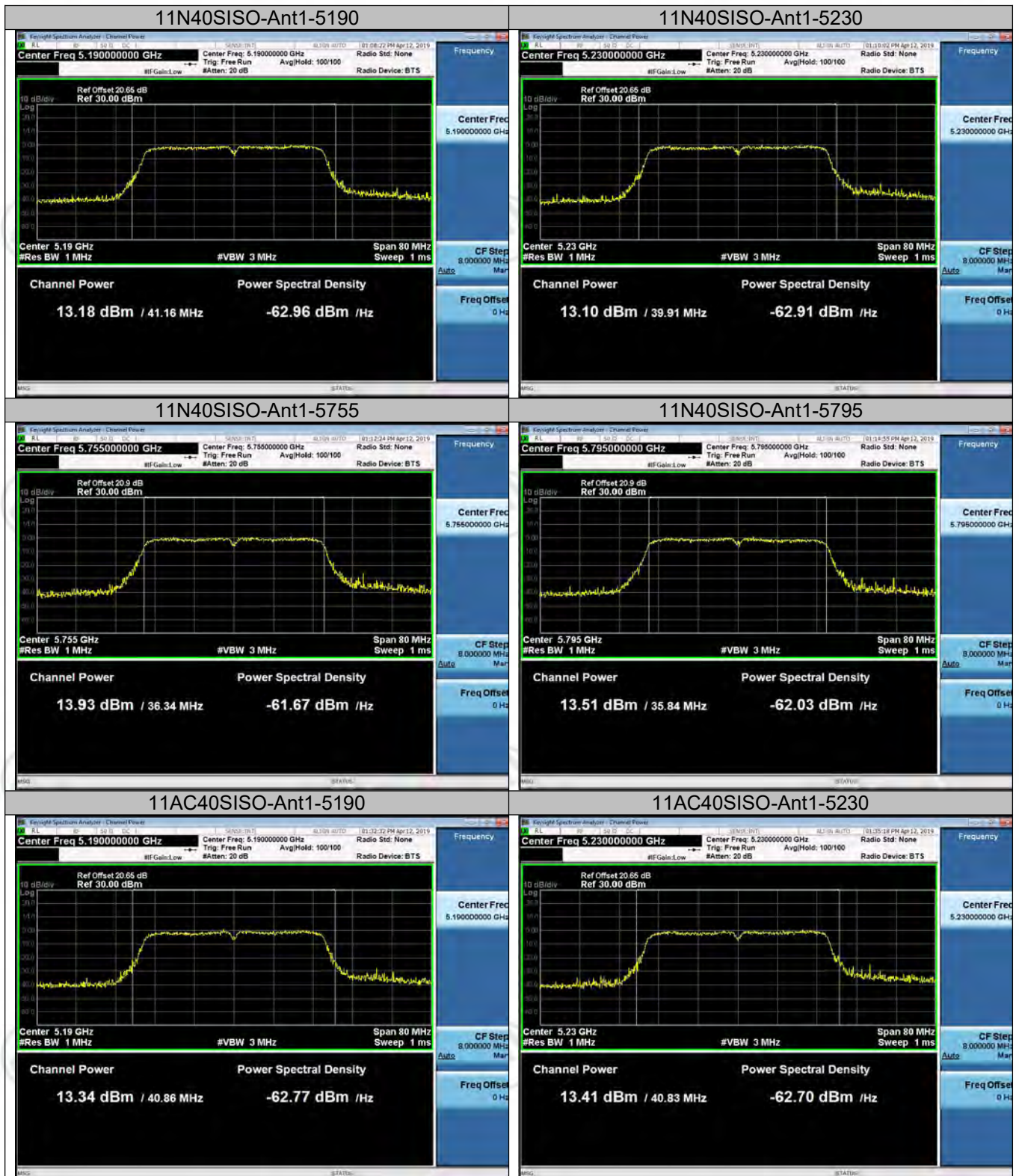
Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11A	Ant2	5180	13	13	PASS
11A	Ant2	5200	13.44	13.44	PASS
11A	Ant2	5240	13.31	13.31	PASS
11A	Ant2	5745	13.57	13.57	PASS
11A	Ant2	5785	13.7	13.7	PASS
11A	Ant2	5825	13.98	13.98	PASS
11N20SISO	Ant2	5180	13.08	13.08	PASS
11N20SISO	Ant2	5200	13.03	13.03	PASS
11N20SISO	Ant2	5240	13.03	13.03	PASS
11N20SISO	Ant2	5745	13.3	13.3	PASS
11N20SISO	Ant2	5785	13.8	13.8	PASS
11N20SISO	Ant2	5825	14.03	14.03	PASS
11AC20SISO	Ant2	5180	13.79	13.79	PASS
11AC20SISO	Ant2	5200	13.41	13.41	PASS
11AC20SISO	Ant2	5240	13.09	13.09	PASS
11AC20SISO	Ant2	5745	14.25	14.25	PASS
11AC20SISO	Ant2	5785	13.95	13.95	PASS
11AC20SISO	Ant2	5825	14.06	14.06	PASS
11N40SISO	Ant2	5190	13.28	13.28	PASS
11N40SISO	Ant2	5230	13.18	13.18	PASS
11N40SISO	Ant2	5755	13.64	13.64	PASS
11N40SISO	Ant2	5795	13.62	13.62	PASS
11AC40SISO	Ant2	5190	13.38	13.38	PASS
11AC40SISO	Ant2	5230	13.19	13.19	PASS
11AC40SISO	Ant2	5755	13.59	13.59	PASS
11AC40SISO	Ant2	5795	13.67	13.67	PASS
11AC80SISO	Ant2	5210	10.32	10.32	PASS
11AC80SISO	Ant2	5775	10.82	10.82	PASS

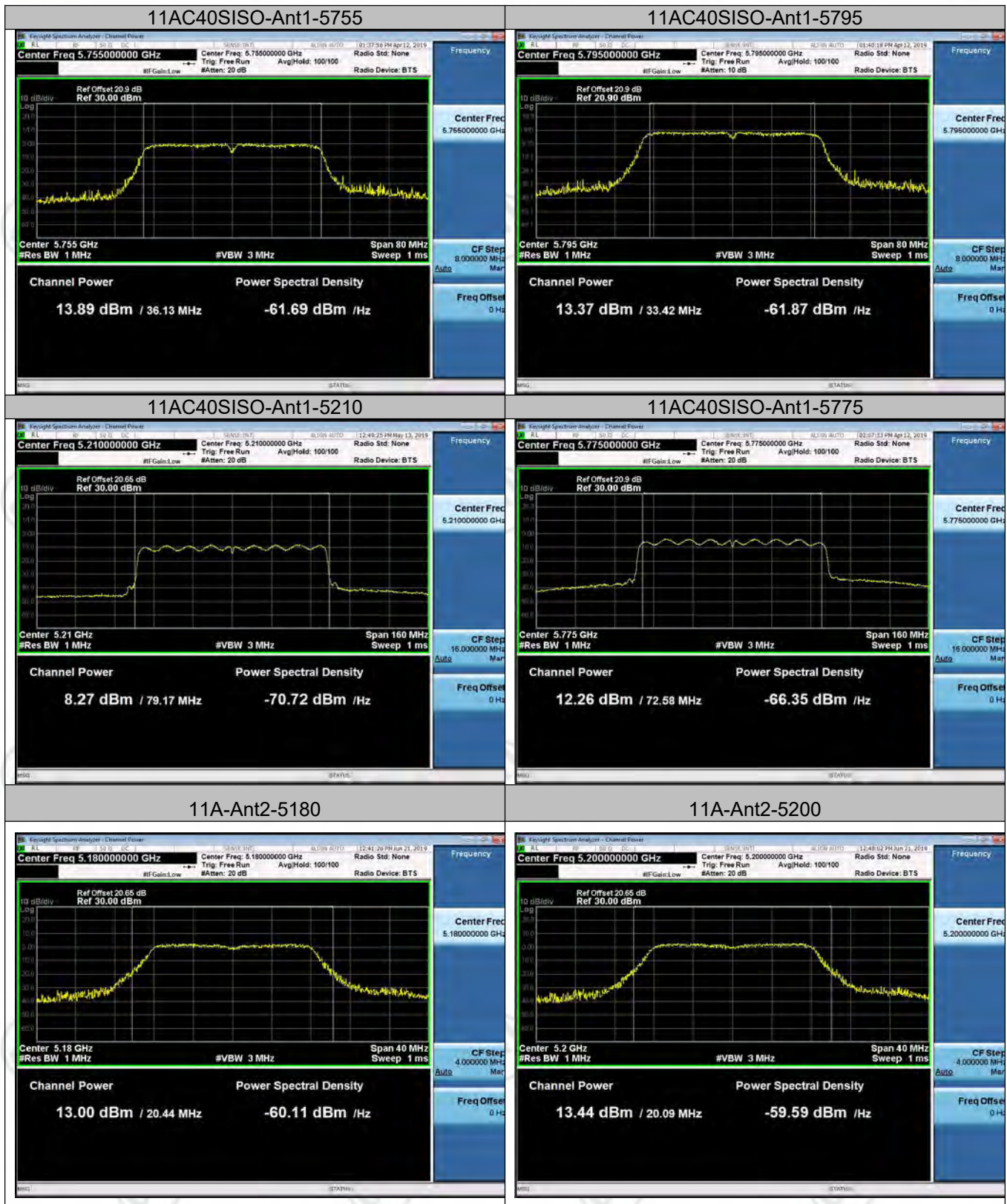
Test Graph

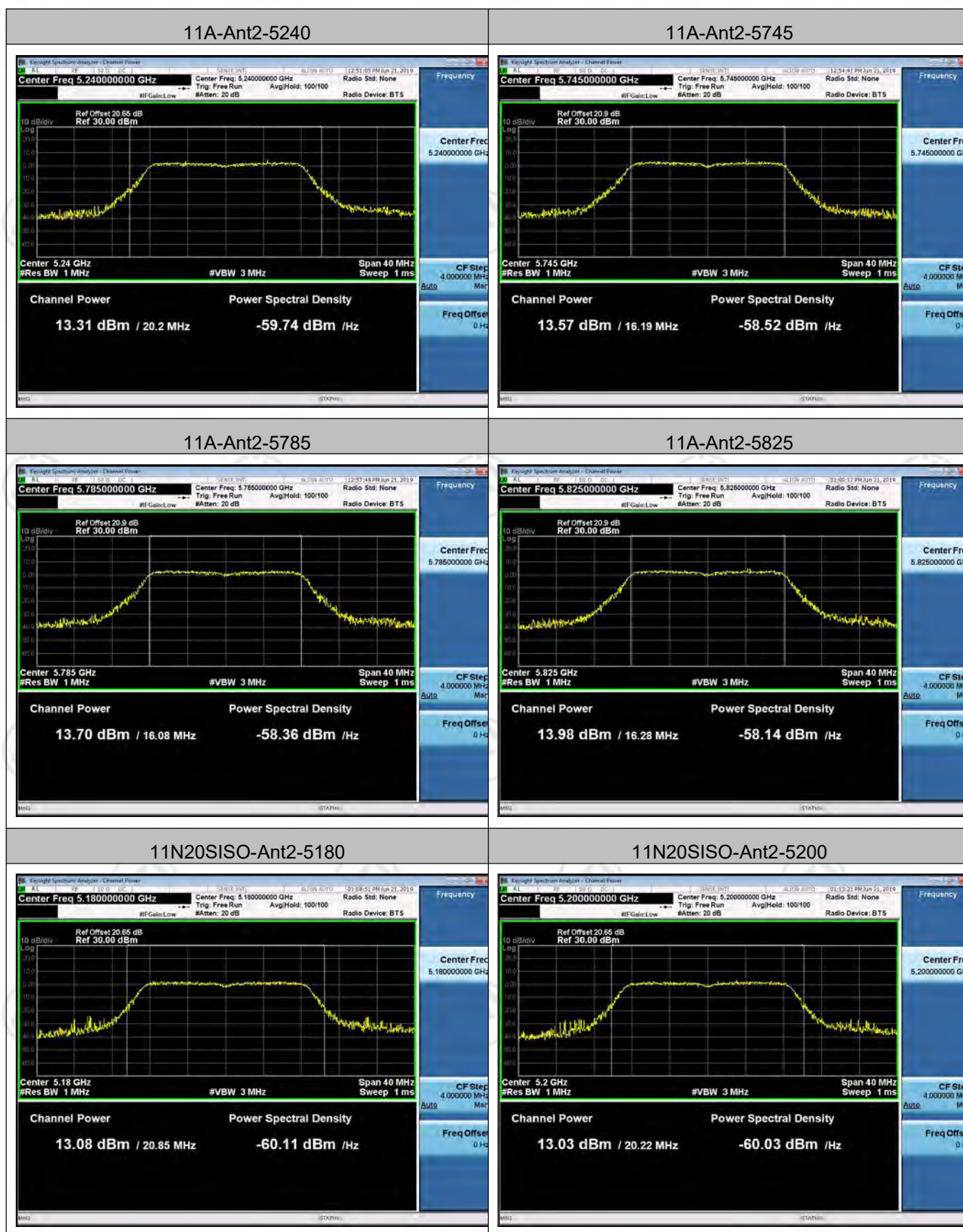


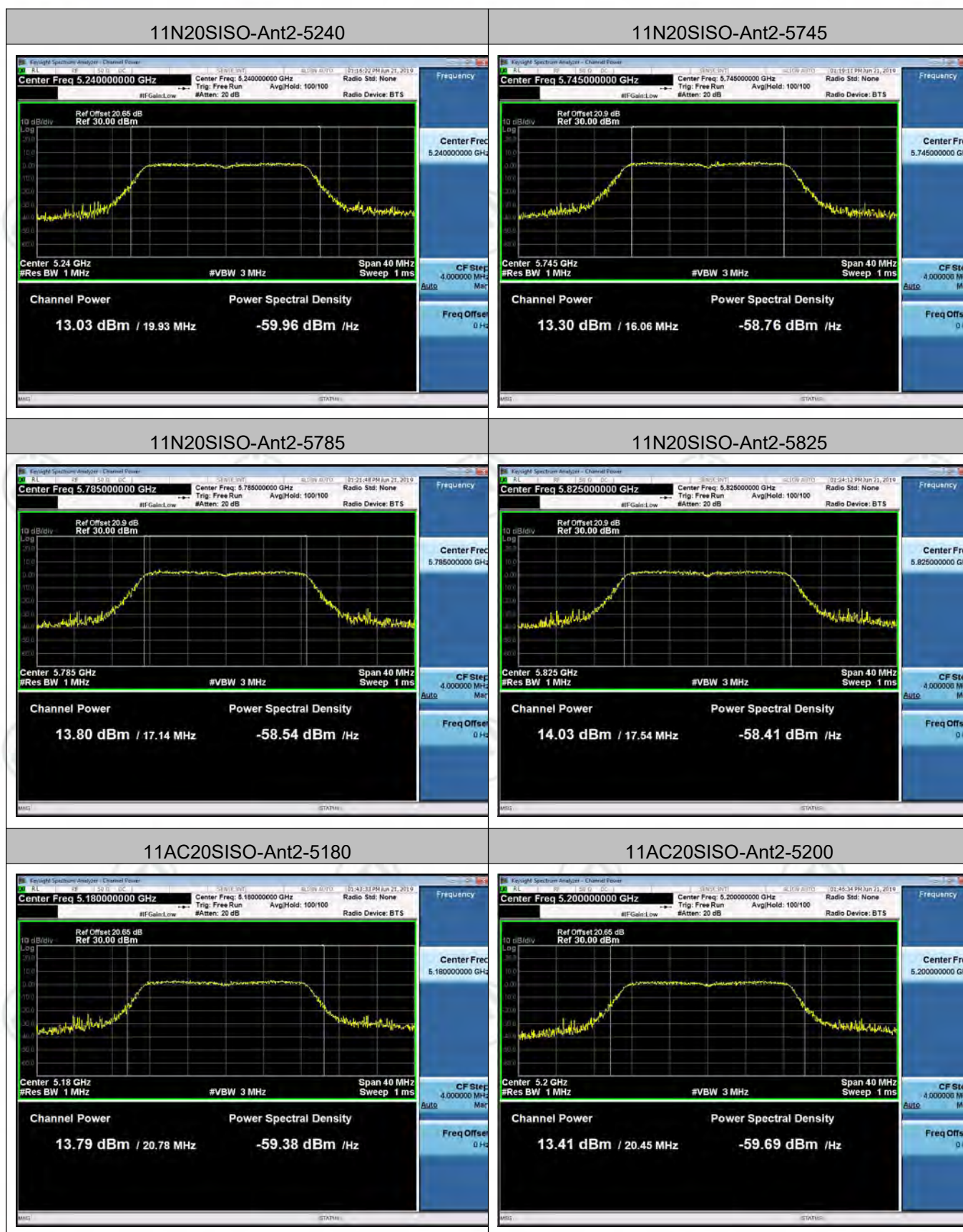


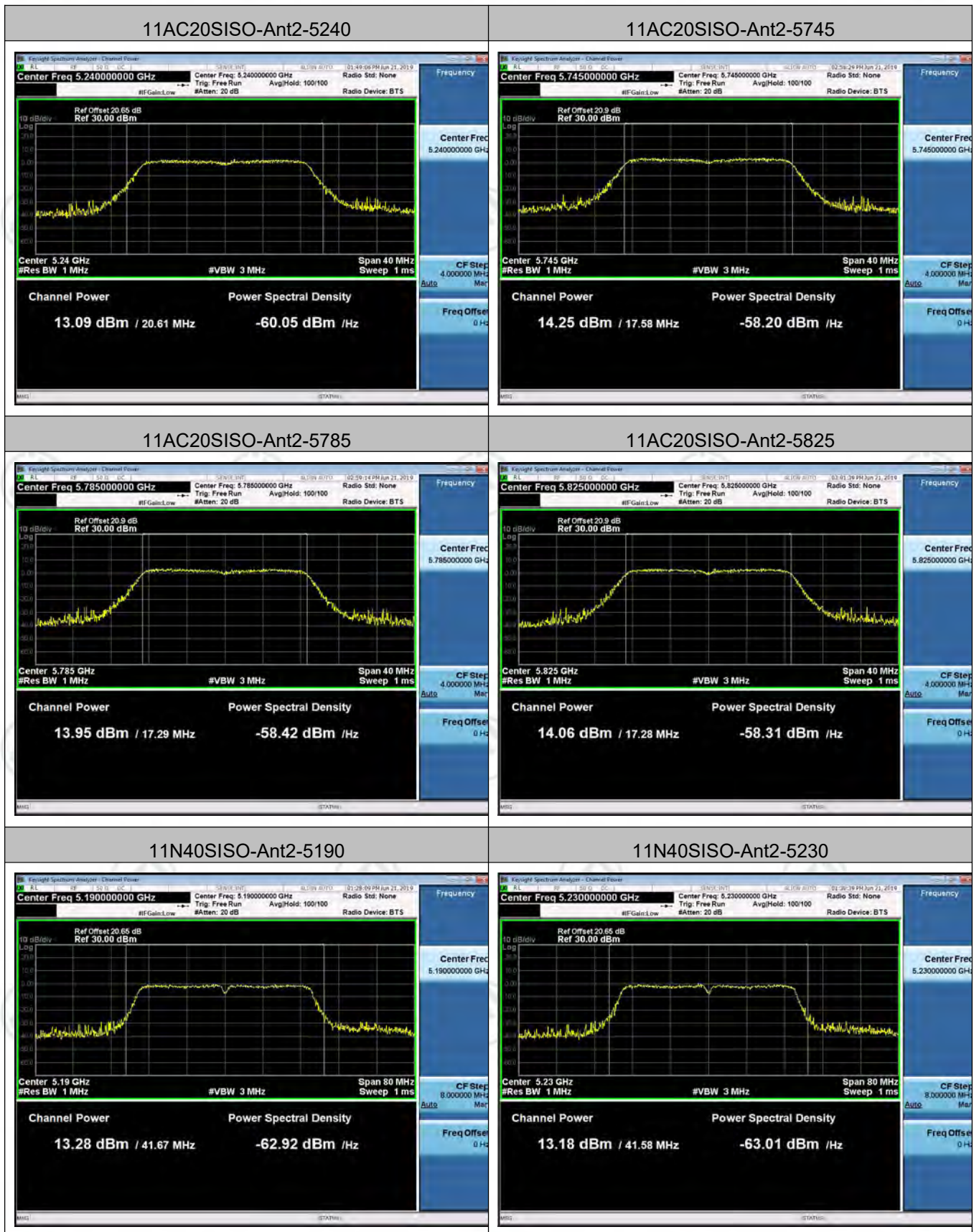








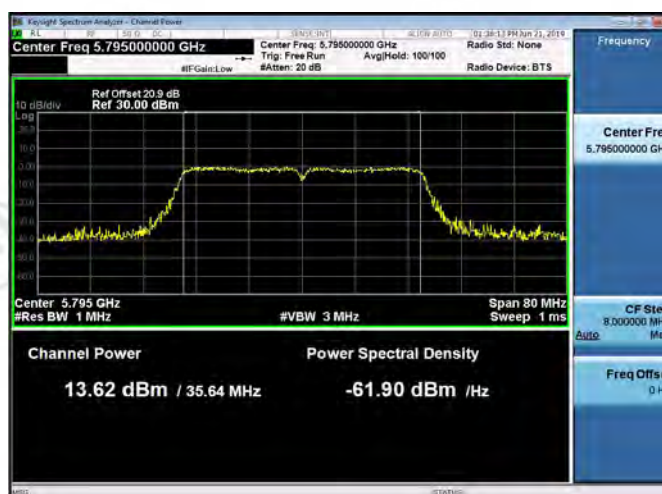




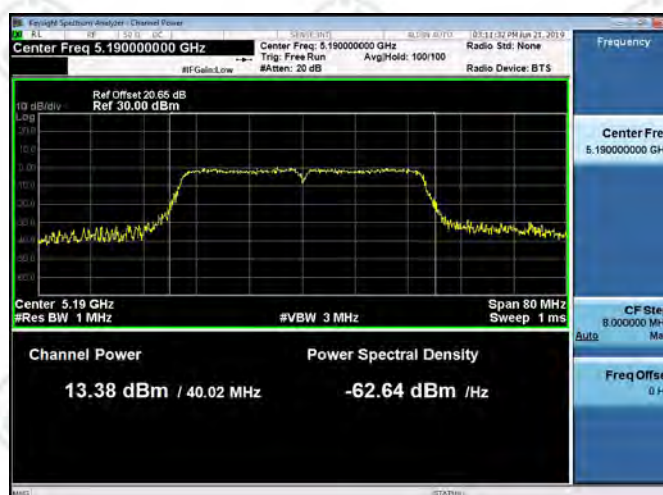
11N40SISO-Ant2-5755



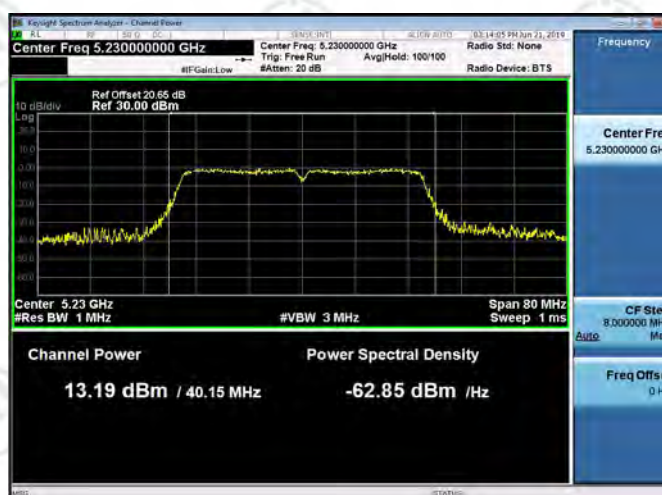
11N40SISO-Ant2-5795



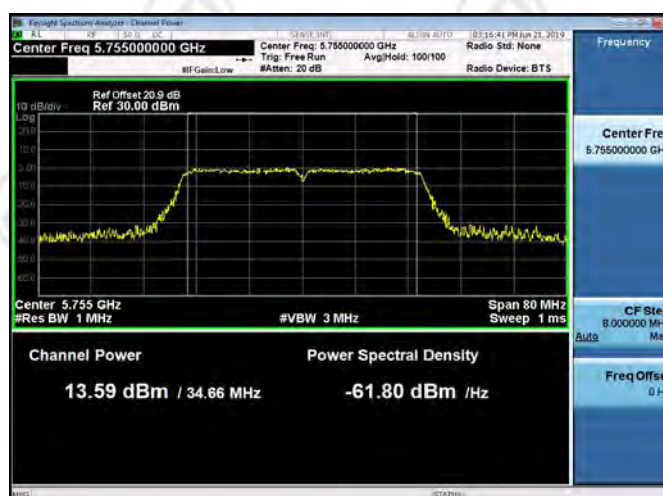
11AC40SISO-Ant2-5190



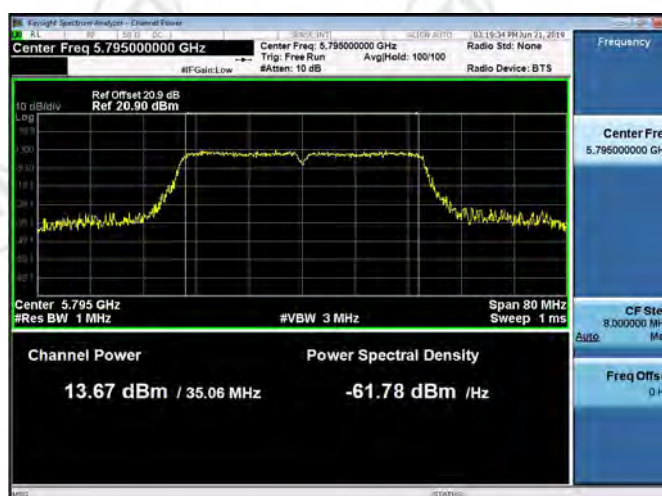
11AC40SISO-Ant2-5230

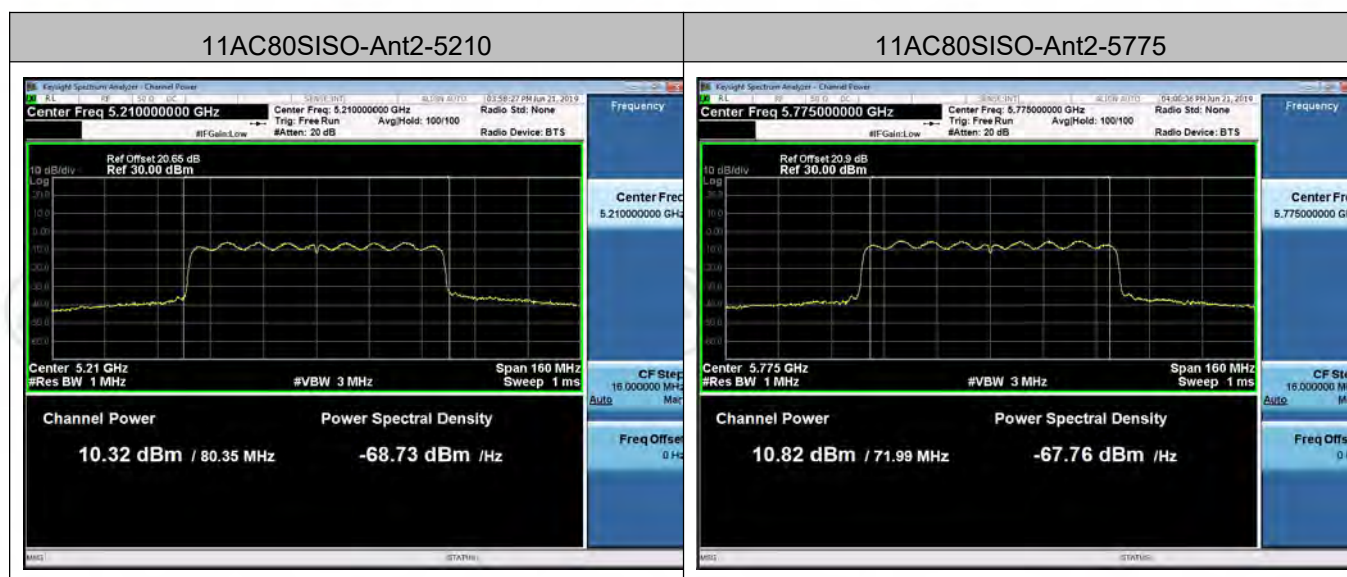


11AC40SISO-Ant2-5755



11AC40SISO-Ant2-5795





Appendix C): Power Spectral Density

Result Table

WC0PR1601: Antenna 2

Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	6.74	6.74	PASS
11A	Ant1	5200	6.80	6.80	PASS
11A	Ant1	5240	6.90	6.90	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant1	5745	1.50	3.71	PASS
11A	Ant1	5785	0.56	2.78	PASS
11A	Ant1	5825	0.26	2.48	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	6.41	6.41	PASS
11N20SISO	Ant1	5200	6.58	6.58	PASS
11N20SISO	Ant1	5240	6.49	6.49	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant1	5745	1.68	3.90	PASS
11N20SISO	Ant1	5785	1.19	3.41	PASS
11N20SISO	Ant1	5825	0.58	2.80	PASS

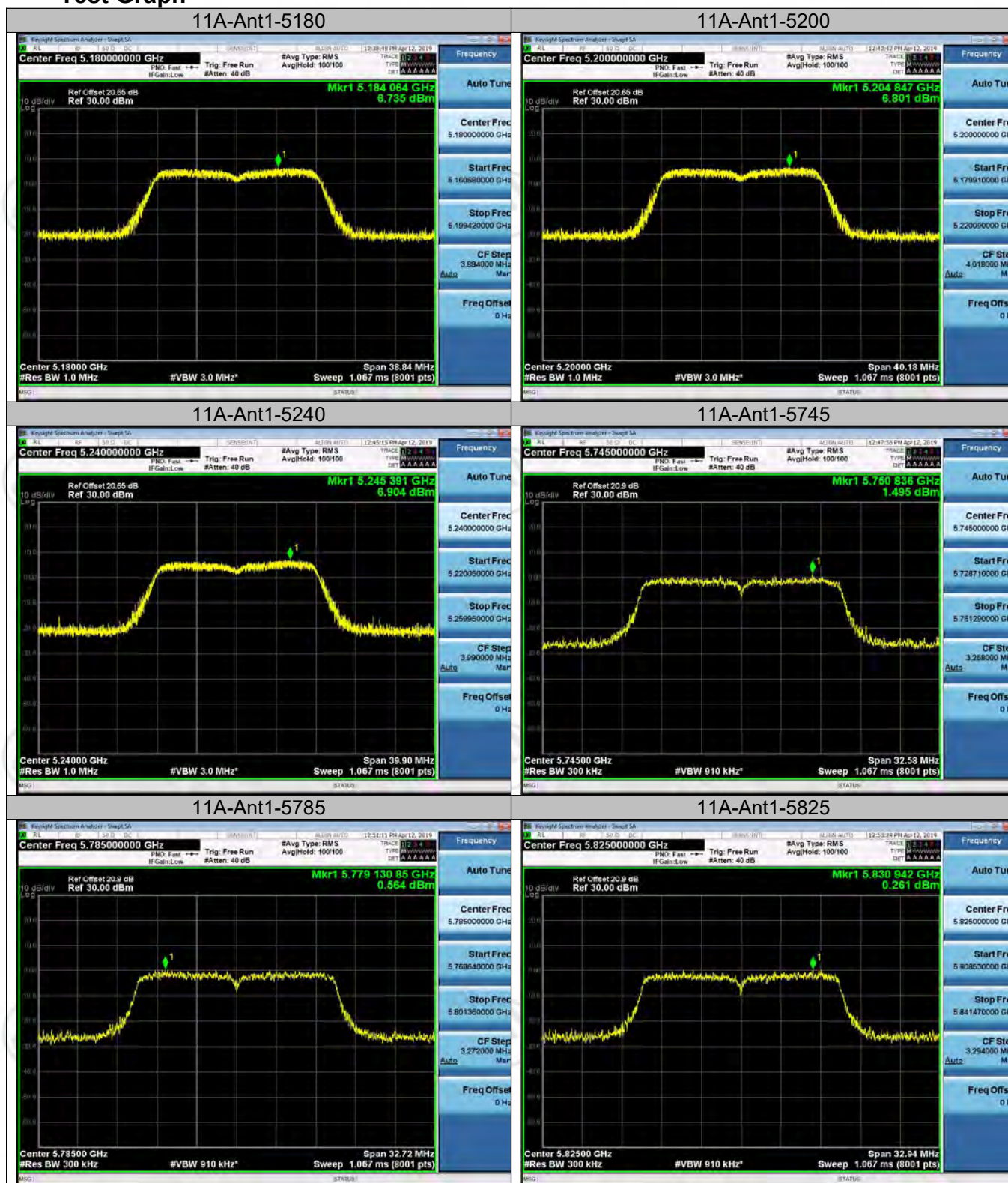
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	2.87	2.87	PASS
11N40SISO	Ant1	5230	2.39	2.39	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant1	5755	-2.39	-0.17	PASS
11N40SISO	Ant1	5795	-2.66	-0.43	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	5.99	5.99	PASS
11AC20SISO	Ant1	5200	6.81	6.81	PASS
11AC20SISO	Ant1	5240	6.82	6.82	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant1	5745	1.04	3.26	PASS
11AC20SISO	Ant1	5785	0.39	2.61	PASS
11AC20SISO	Ant1	5825	0.45	2.67	PASS

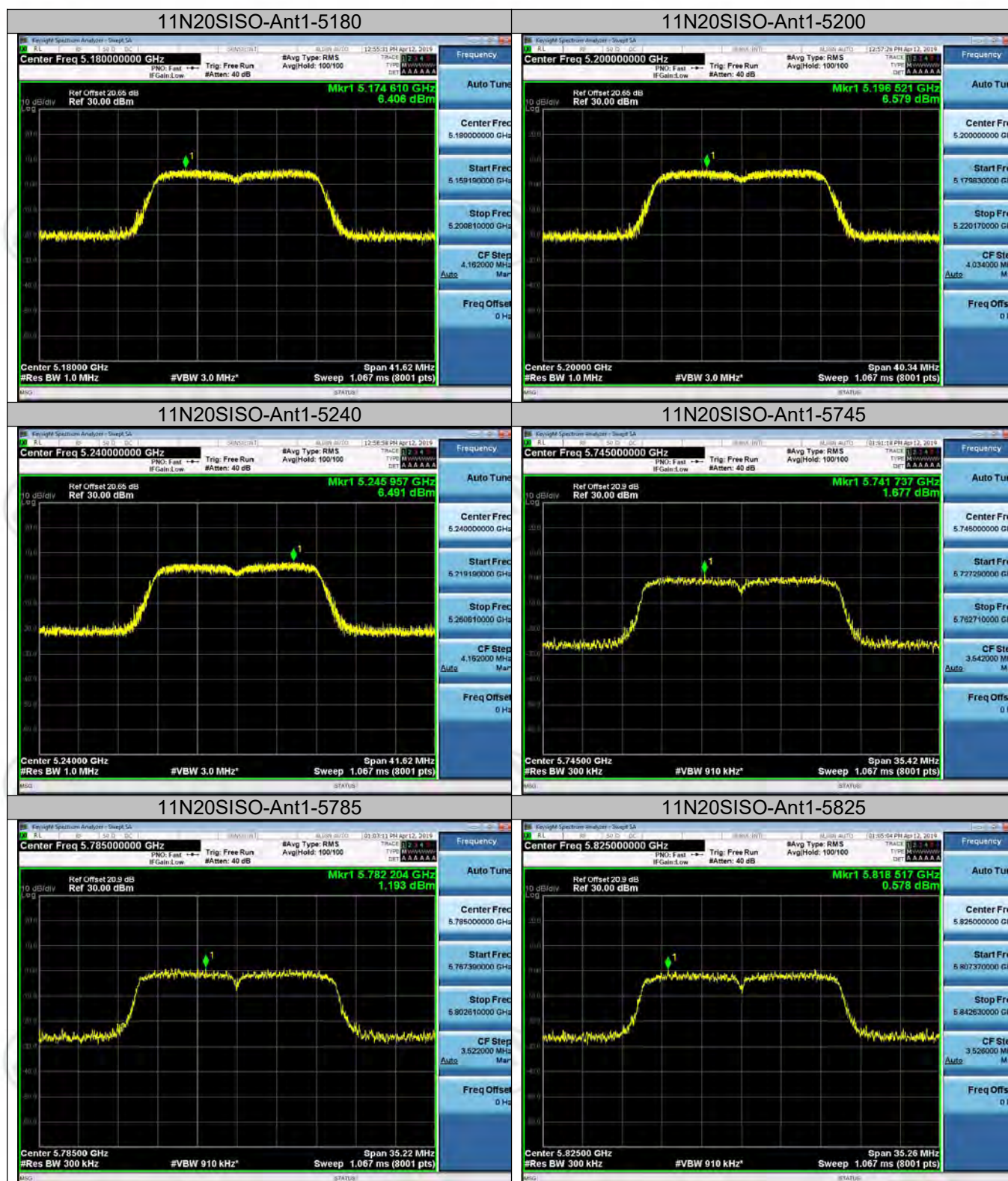
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	2.54	2.54	PASS
11AC40SISO	Ant1	5230	3.82	3.82	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant1	5755	-2.70	-0.48	PASS
11AC40SISO	Ant1	5795	-2.95	-0.73	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	0.16	0.16	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant1	5775	-1.99	0.23	PASS

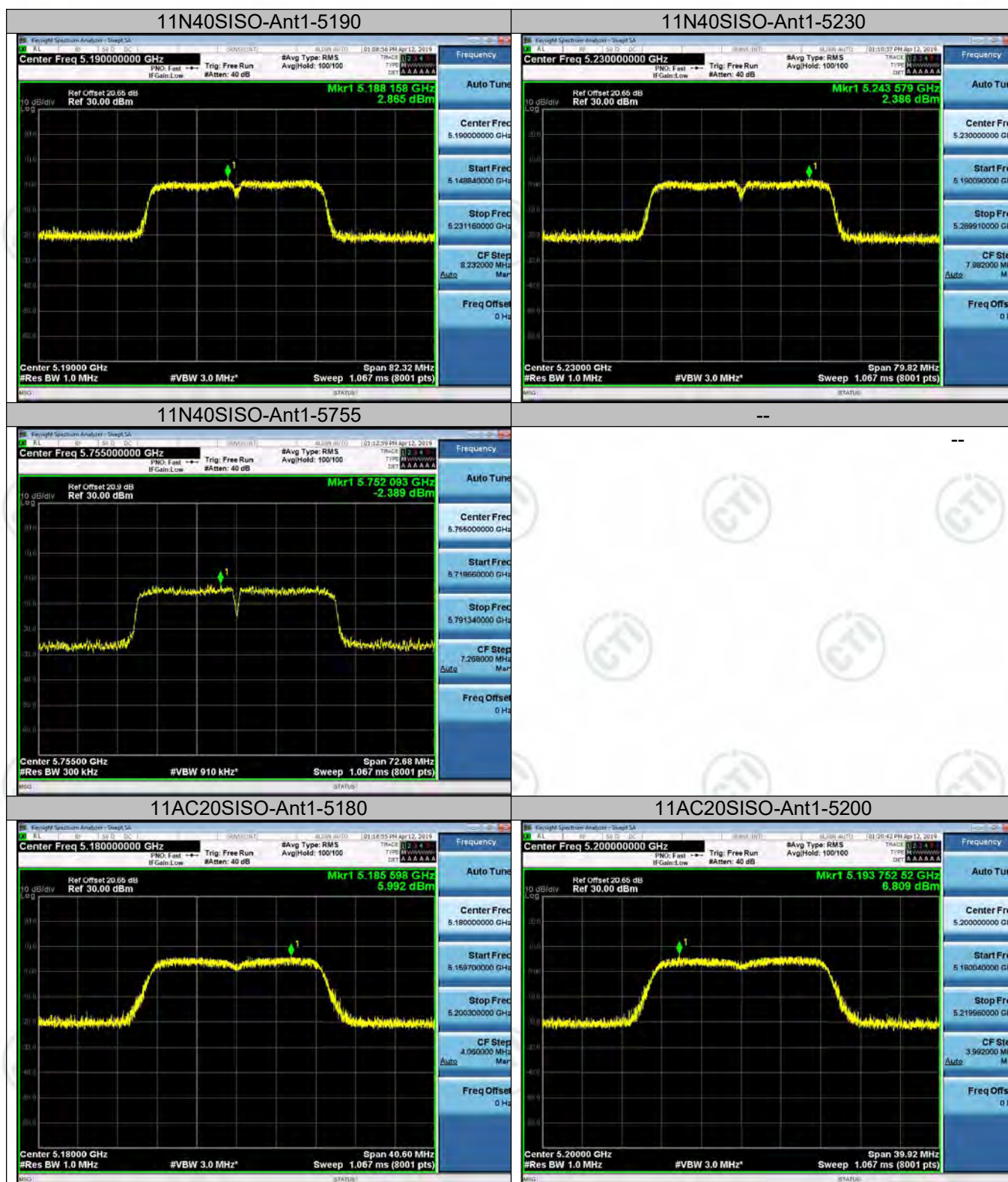
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11A	Ant2	5180	5.54	5.54	PASS
11A	Ant2	5200	6.48	6.48	PASS
11A	Ant2	5240	6.34	6.34	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11A	Ant2	5745	0.30	2.52	PASS
11A	Ant2	5785	0.09	2.30	PASS
11A	Ant2	5825	0.79	3.00	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant2	5180	5.43	5.43	PASS
11N20SISO	Ant2	5200	5.67	5.67	PASS
11N20SISO	Ant2	5240	5.57	5.57	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N20SISO	Ant2	5745	-0.02	2.20	PASS
11N20SISO	Ant2	5785	0.27	2.49	PASS
11N20SISO	Ant2	5825	0.49	2.71	PASS

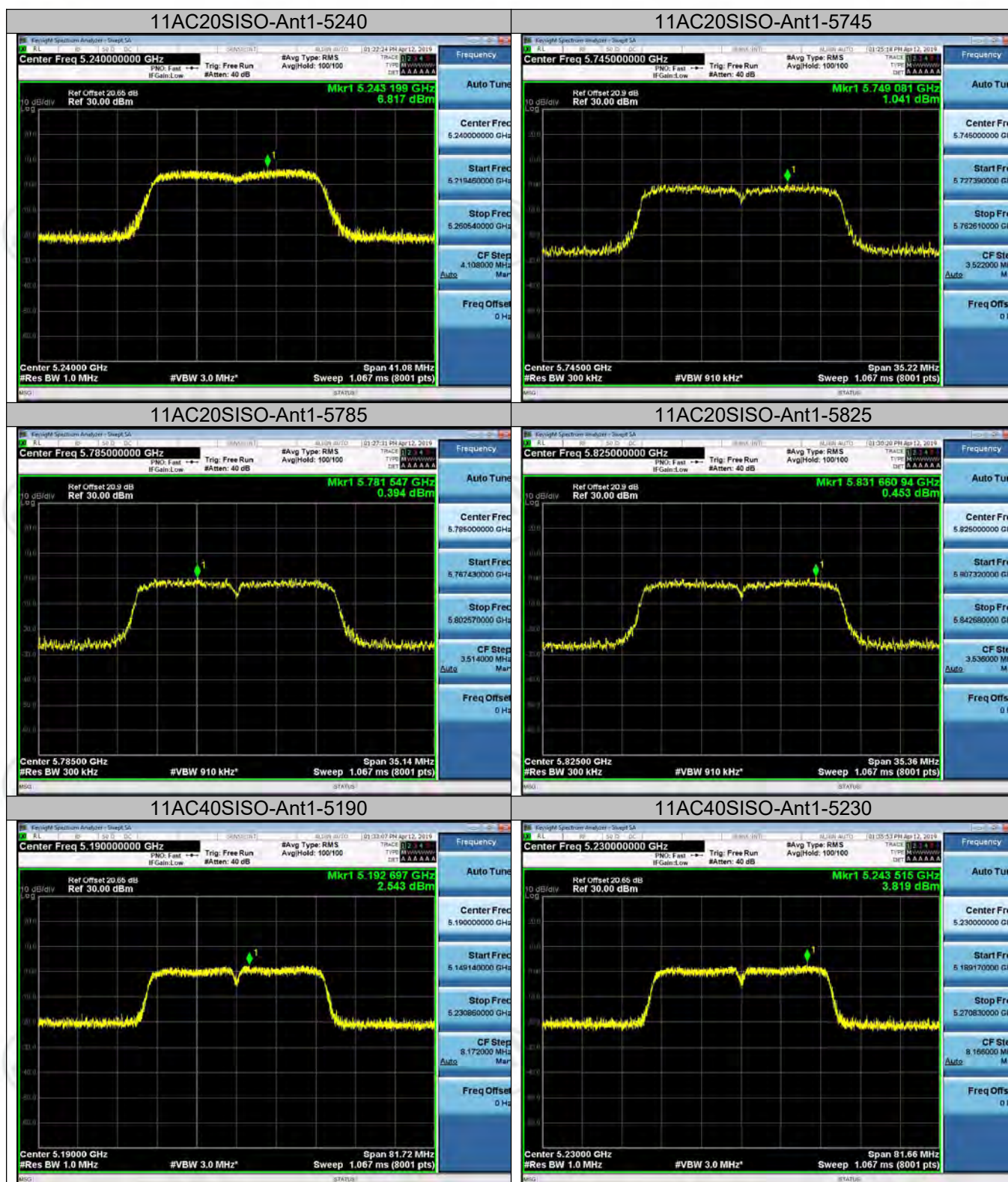
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant2	5190	3.14	3.14	PASS
11N40SISO	Ant2	5230	2.09	2.09	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11N40SISO	Ant2	5755	-2.86	-0.64	PASS
11N40SISO	Ant2	5795	-3.23	-1.01	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant2	5180	5.93	5.93	PASS
11AC20SISO	Ant2	5200	5.41	5.41	PASS
11AC20SISO	Ant2	5240	5.27	5.27	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC20SISO	Ant2	5745	0.71	2.93	PASS
11AC20SISO	Ant2	5785	0.59	2.81	PASS
11AC20SISO	Ant2	5825	0.43	2.65	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant2	5190	2.63	2.63	PASS
11AC40SISO	Ant2	5230	2.49	2.49	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC40SISO	Ant2	5755	-2.71	-0.49	PASS
11AC40SISO	Ant2	5795	-3.13	-0.91	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant2	5210	2.19	2.19	PASS
Test Mode	Antenna	Channel	Meas.Level [dBm]	PSD [dBm/500kHz]	Verdict
11AC80SISO	Ant2	5775	-2.39	-0.17	PASS

Test Graph



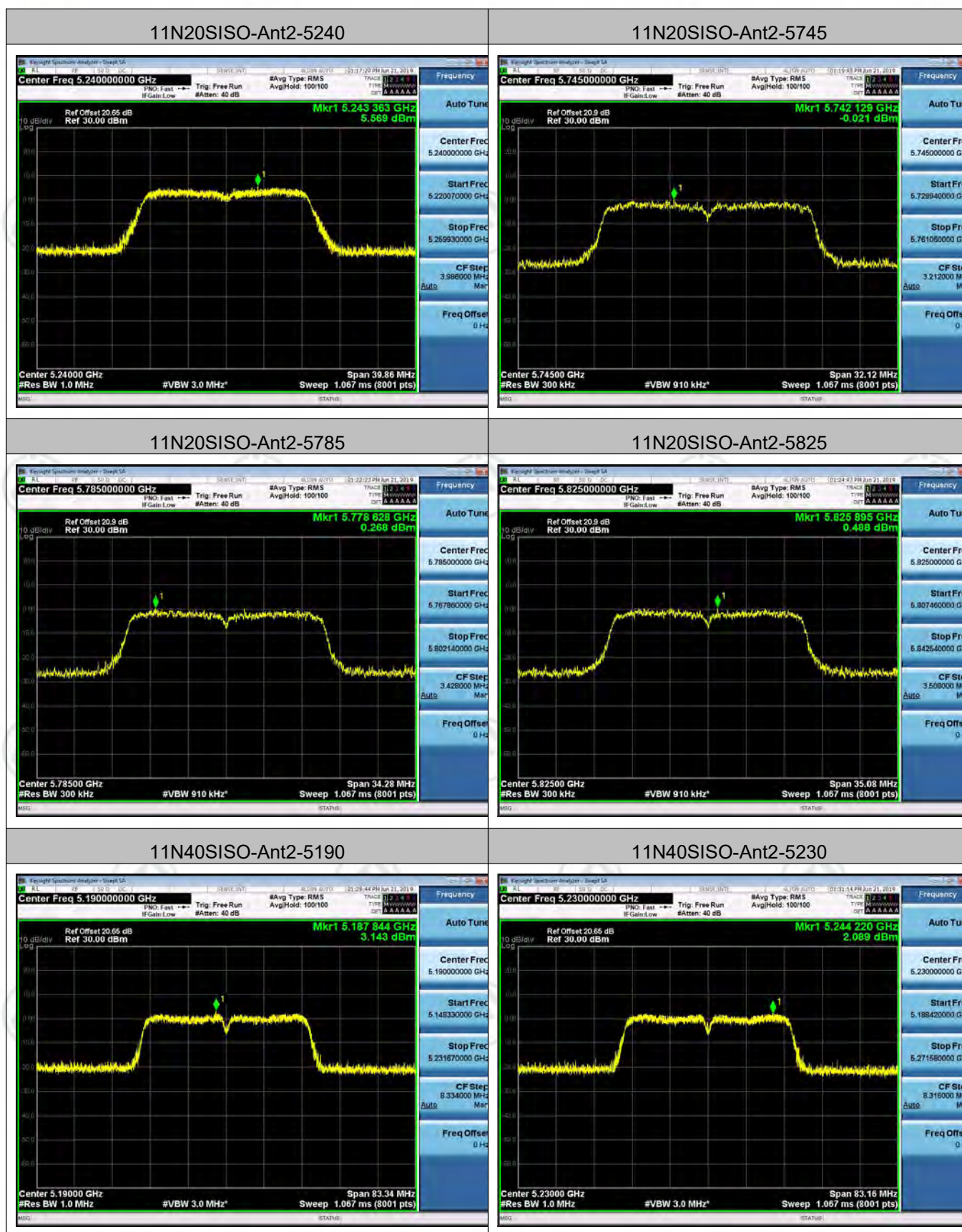


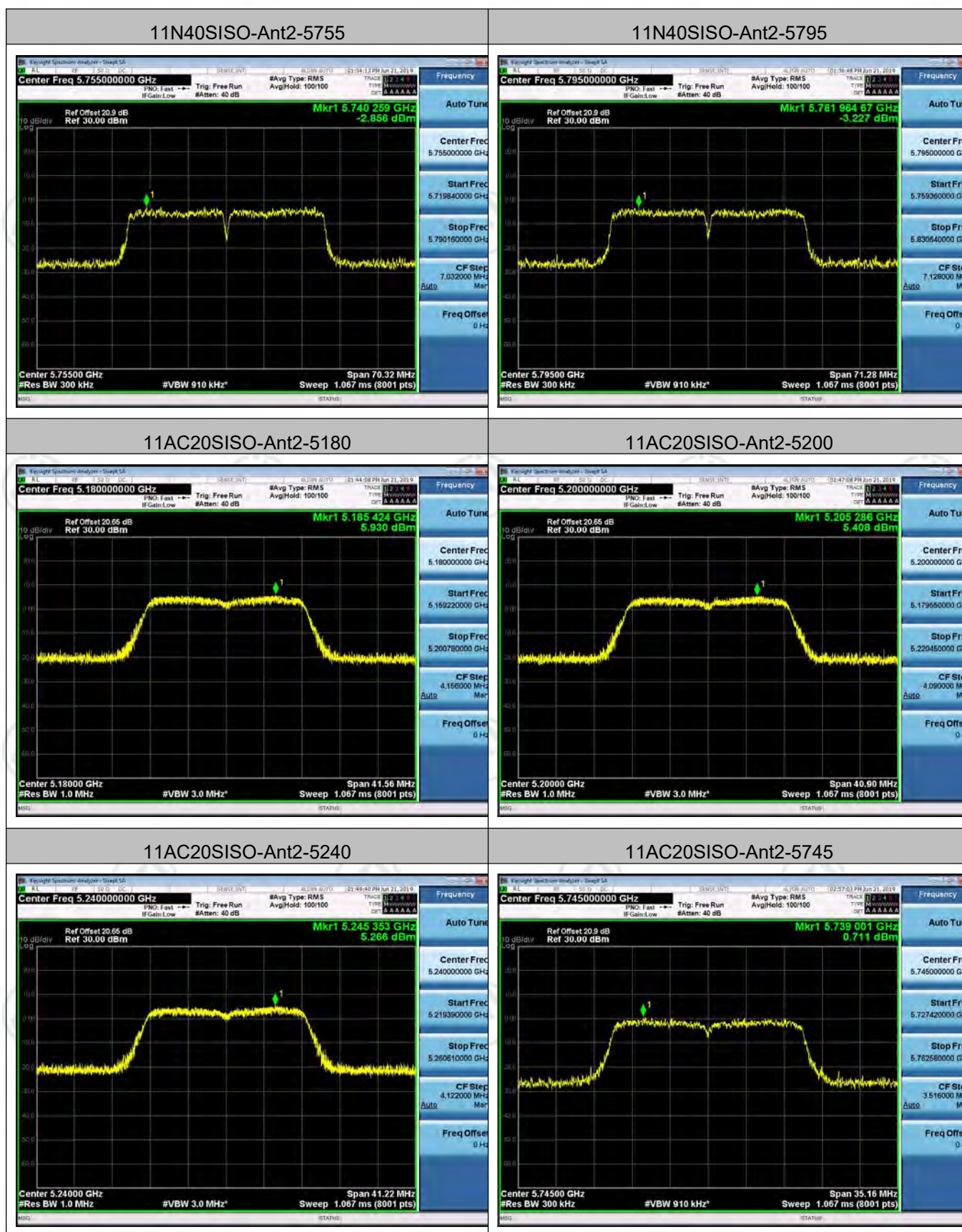




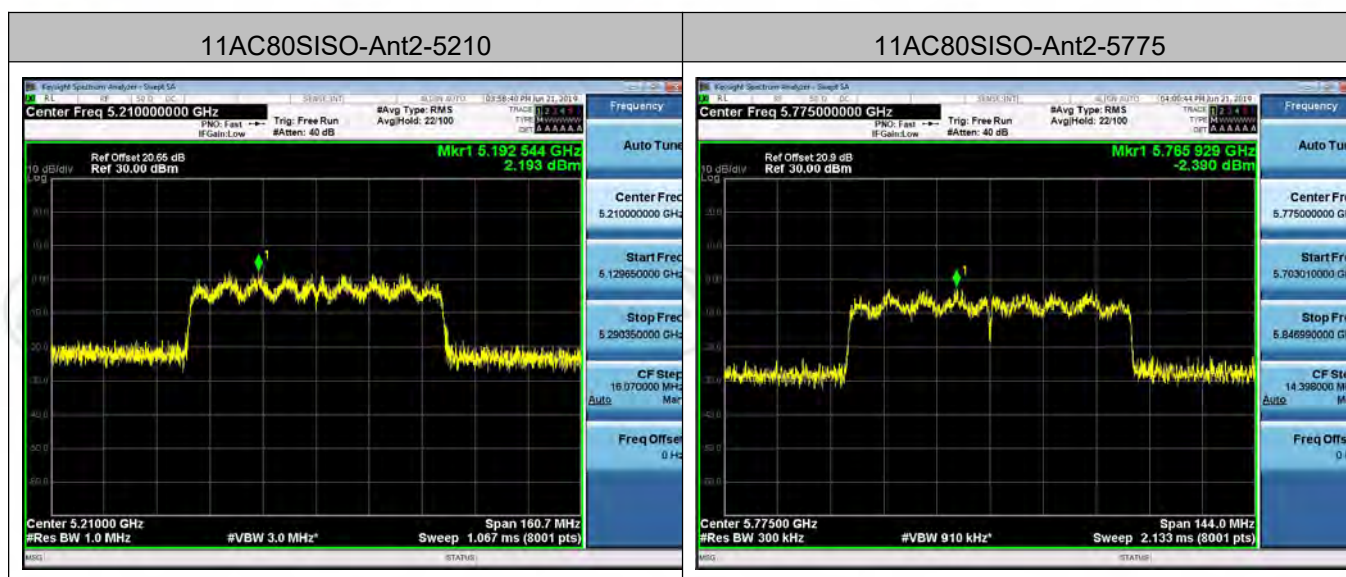












Appendix D): Band Edge Measurements

Result Table

WC0PR1601: Antenna 2

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11A	Ant1	5180	-46.739		PASS
11A	Ant1	5240	-47.616		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11A	Ant1	5745	-46.831	-47.585	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11A	Ant1	5825	-48.573	-46.556	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N20SISO	Ant1	5180	-46.922		PASS
11N20SISO	Ant1	5240	-48.023		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N20SISO	Ant1	5745	-47.629	-45.358	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N20SISO	Ant1	5825	-47.233	-47.692	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N40SISO	Ant1	5190	-49.823		PASS
11N40SISO	Ant1	5230	-53.204		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N40SISO	Ant1	5755	-46.934	-47.125	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N40SISO	Ant1	5795	-48.654	-48.033	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC20SISO	Ant1	5180	-46.618		PASS
11AC20SISO	Ant1	5240	-48.097		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC20SISO	Ant1	5745	-47.106	-47.637	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC20SISO	Ant1	5825	-48.173	-46.796	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC40SISO	Ant1	5190	-51.111		PASS
11AC40SISO	Ant1	5230	-44.734		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC40SISO	Ant1	5755	-47.807	-45.143	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC40SISO	Ant1	5795	-48.369	-47.316	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC80SISO	Ant1	5210	-44.220		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC80SISO	Ant1	5775	-36.594	-39.363	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11A	Ant2	5180	-46.102		PASS
11A	Ant2	5240	-47.809		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11A	Ant2	5745	-47.885	-47.743	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11A	Ant2	5825	-47.939	-47.327	PASS

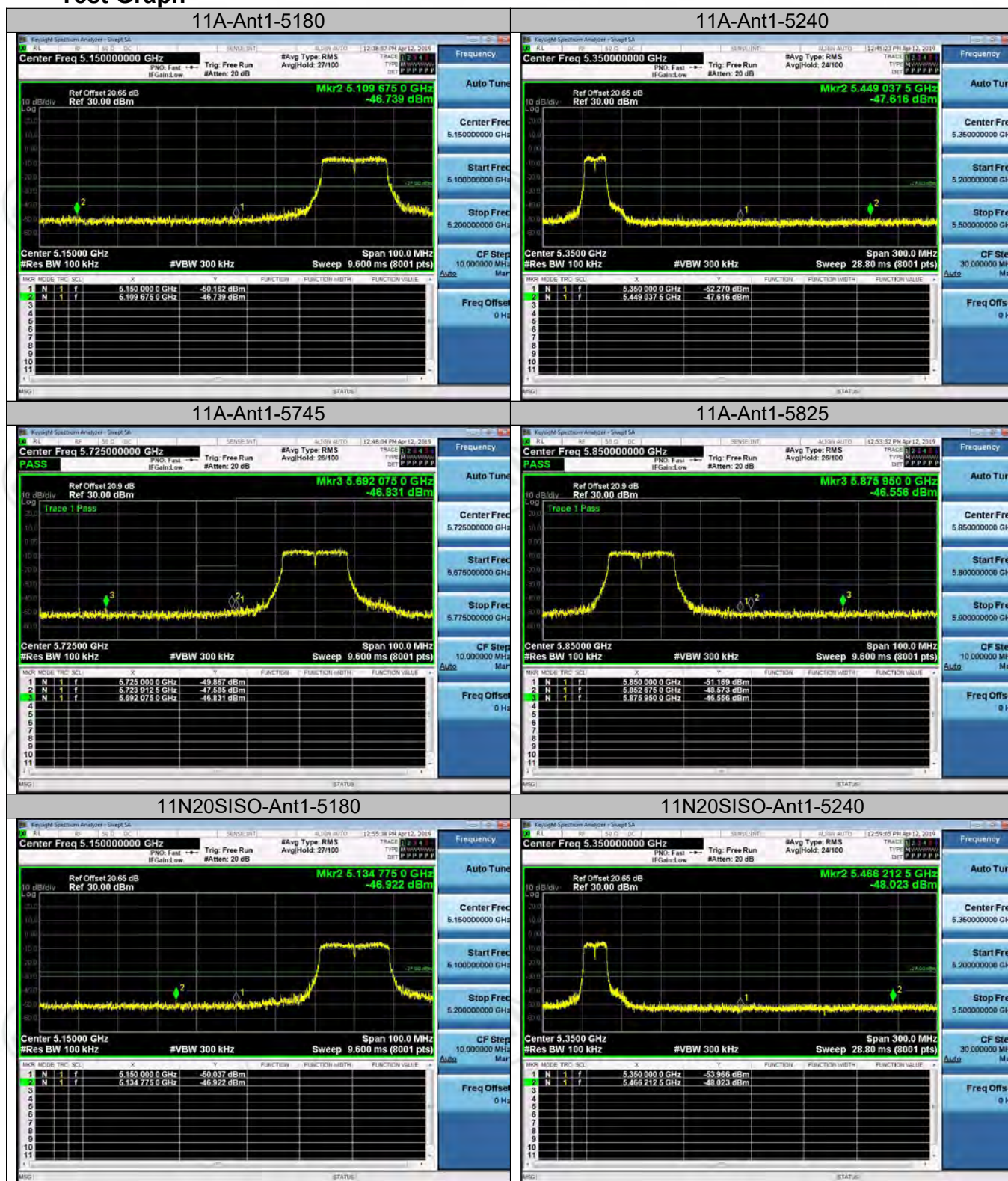
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N20SISO	Ant2	5180	-46.115		PASS
11N20SISO	Ant2	5240	-47.383		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N20SISO	Ant2	5745	-48.369	-46.252	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N20SISO	Ant2	5825	-48.026	-47.365	PASS

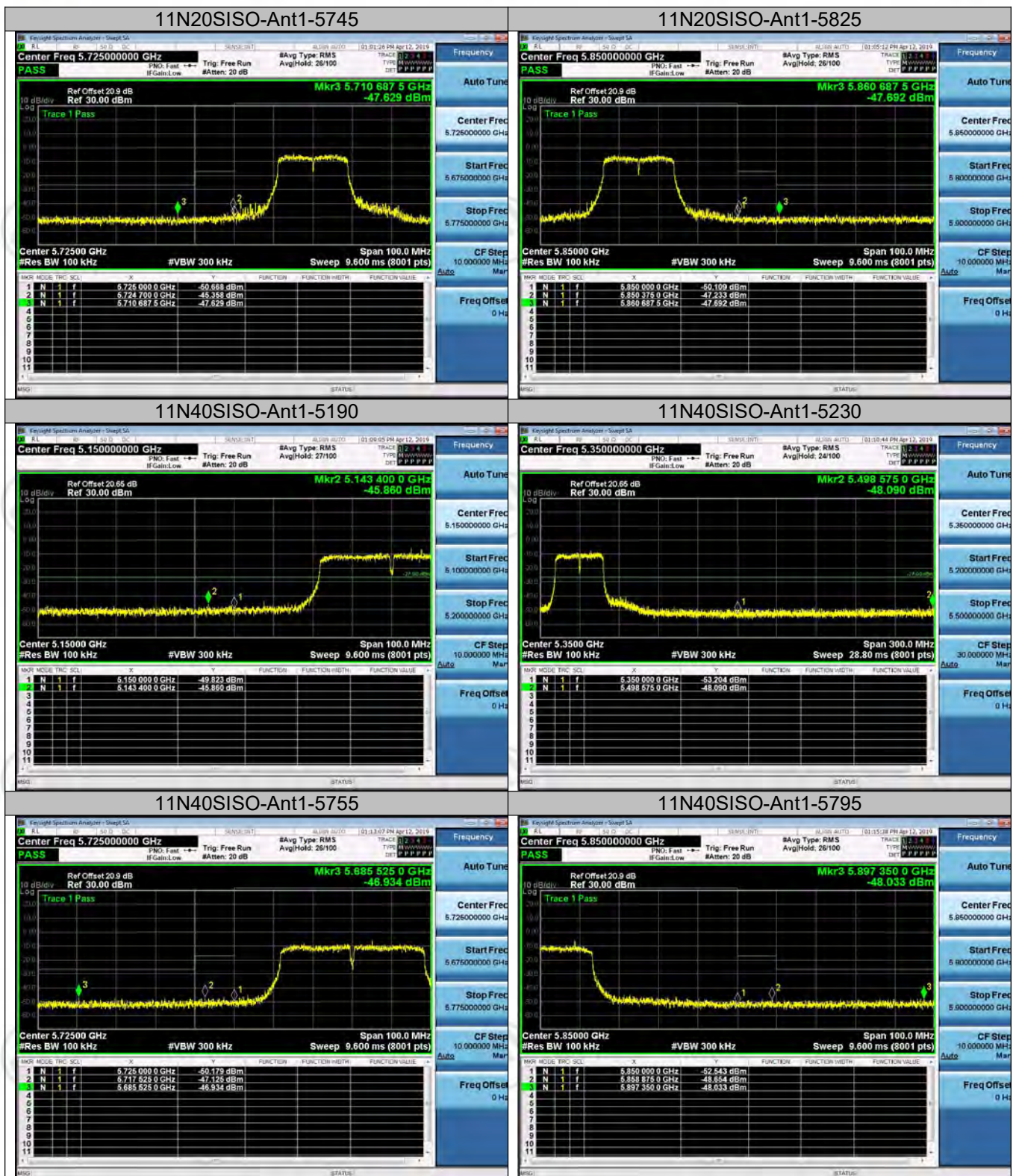
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11N40SISO	Ant2	5190	-50.95		PASS
11N40SISO	Ant2	5230	-51.823		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11N40SISO	Ant2	5755	-47.291	-40.747	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11N40SISO	Ant2	5795	-48.562	-47.583	PASS

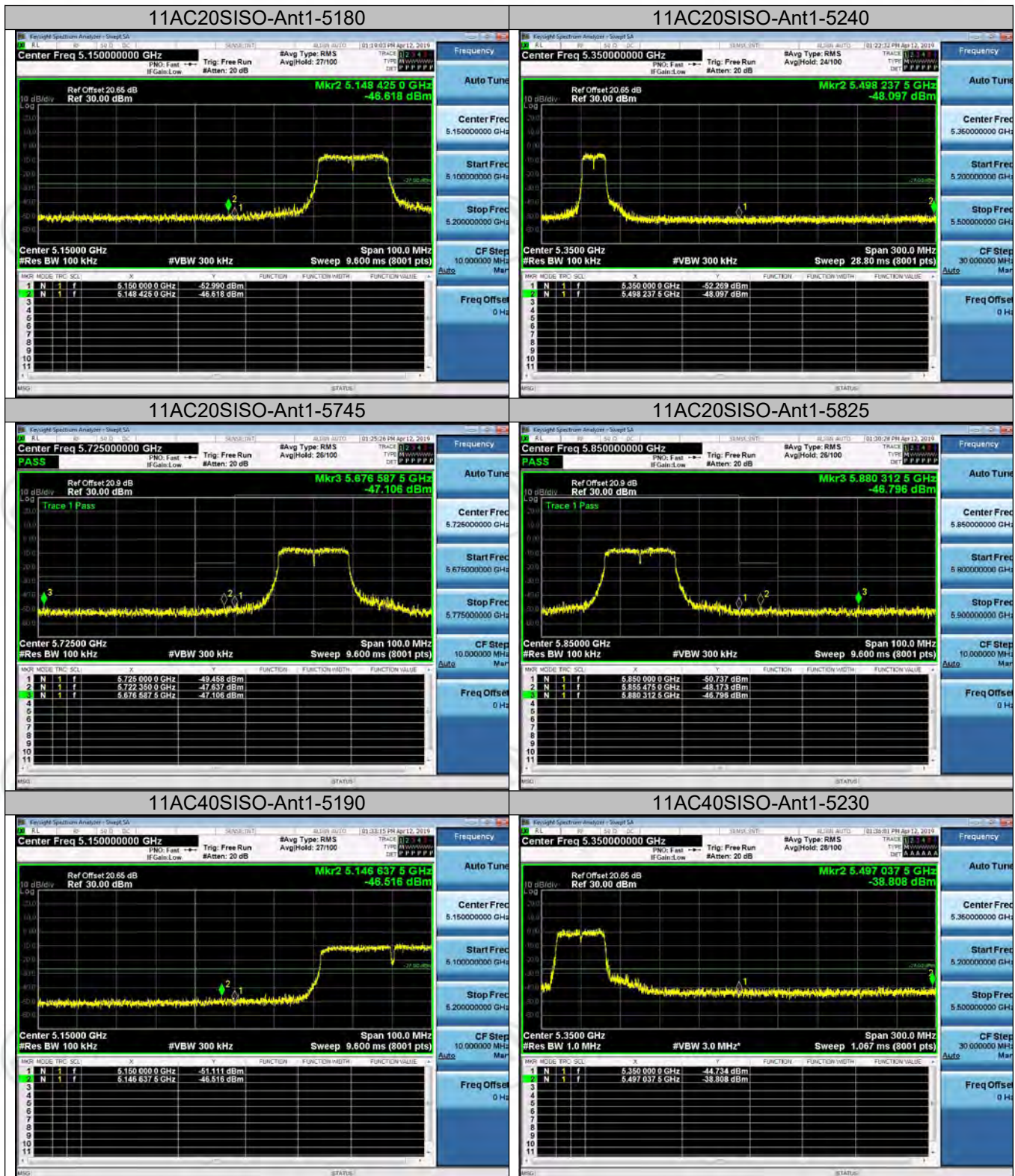
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC20SISO	Ant2	5180	-47.191		PASS
11AC20SISO	Ant2	5240	-48.361		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC20SISO	Ant2	5745	-47.212	-43.652	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC20SISO	Ant2	5825	-47.21	-47.523	PASS

Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC40SISO	Ant2	5190	-51.938		PASS
11AC40SISO	Ant2	5230	-43.056		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			Below 5715	5715-5725	
11AC40SISO	Ant2	5755	-44.924	-42.989	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC40SISO	Ant2	5795	-47.922	-47.054	PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
11AC80SISO	Ant2	5210	-41.934		PASS
Test Mode	Antenna	Channel	Max.Level [dBm]		Verdict
			5850-5860	Above 5860	
11AC80SISO	Ant2	5775	-40.826	-40.275	PASS

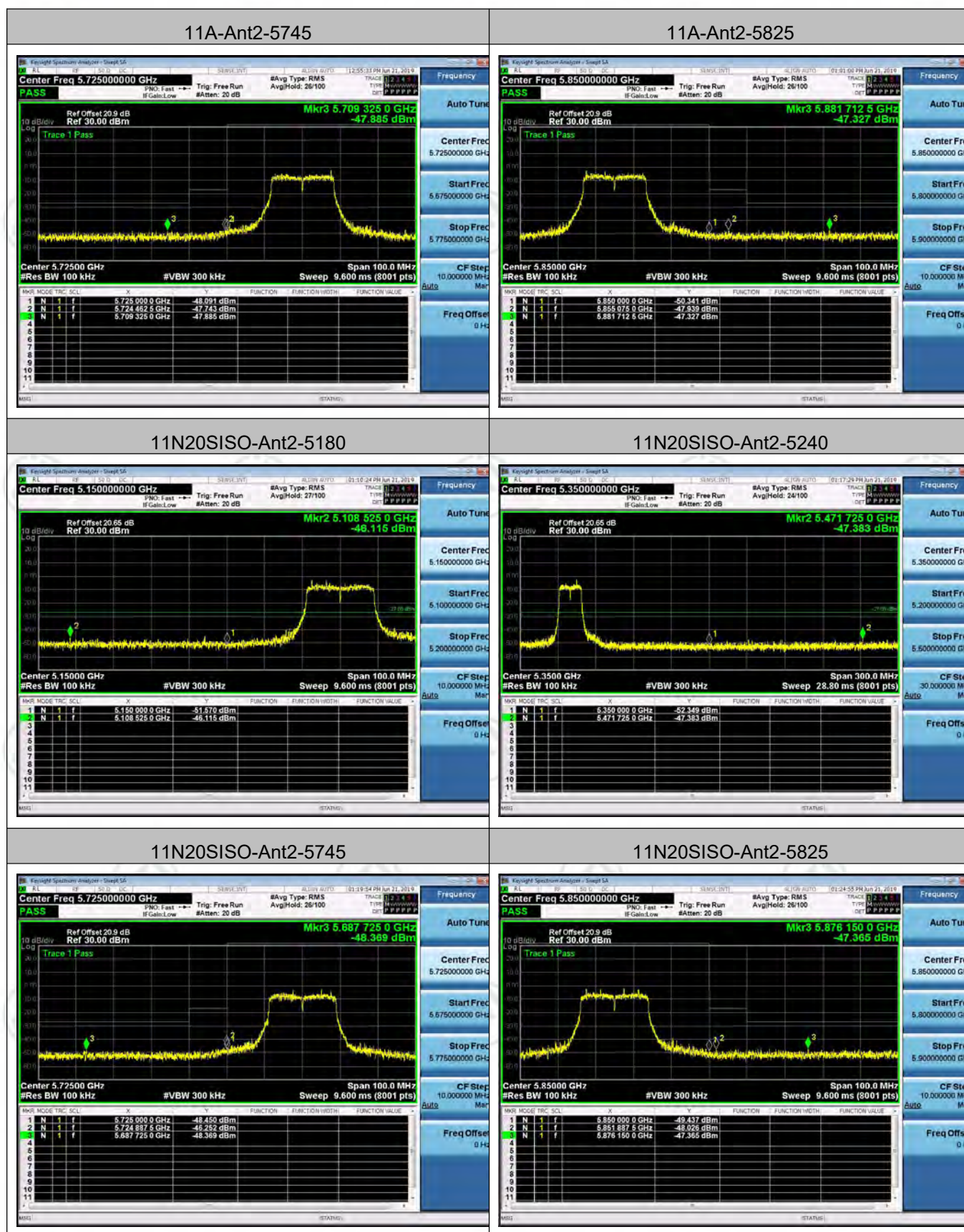
Test Graph



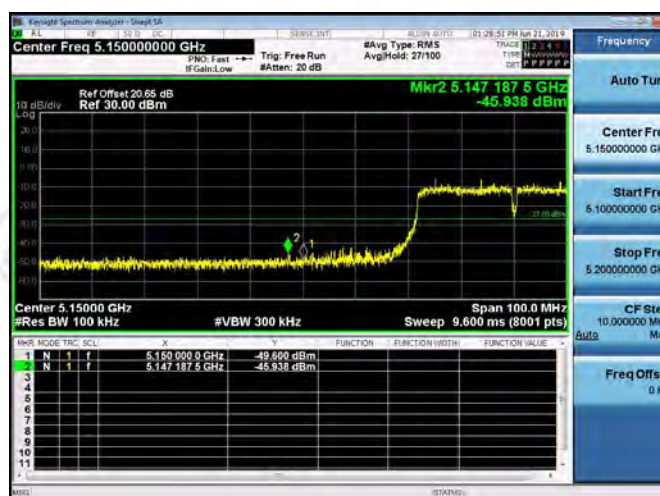




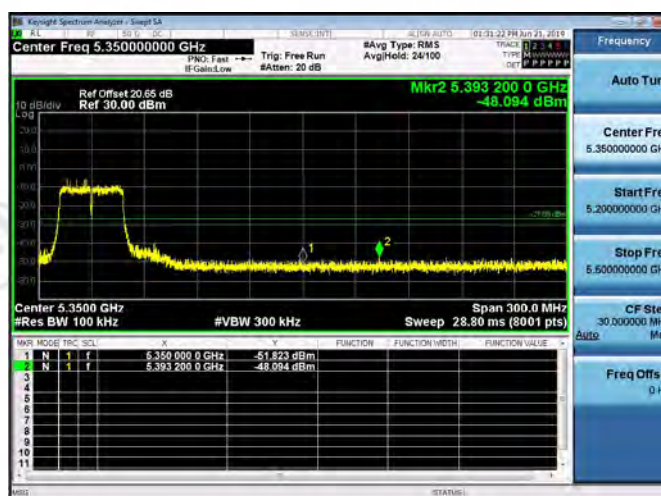




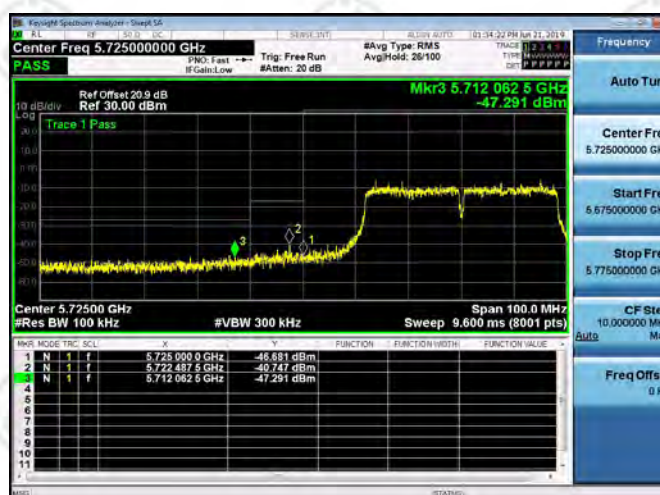
11N40SISO-Ant2-5190



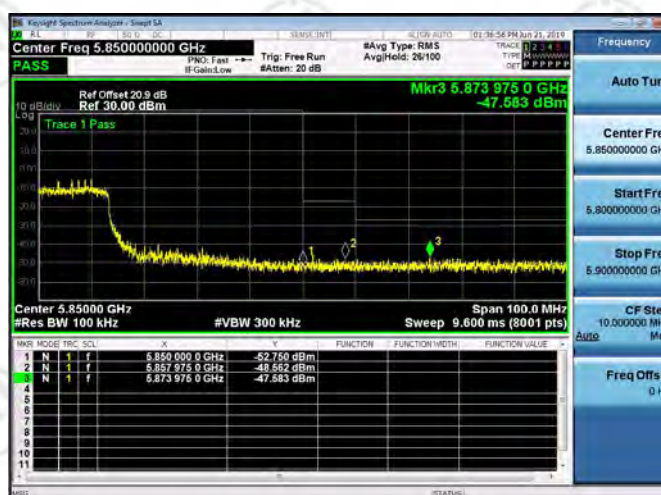
11N40SISO-Ant2-5230



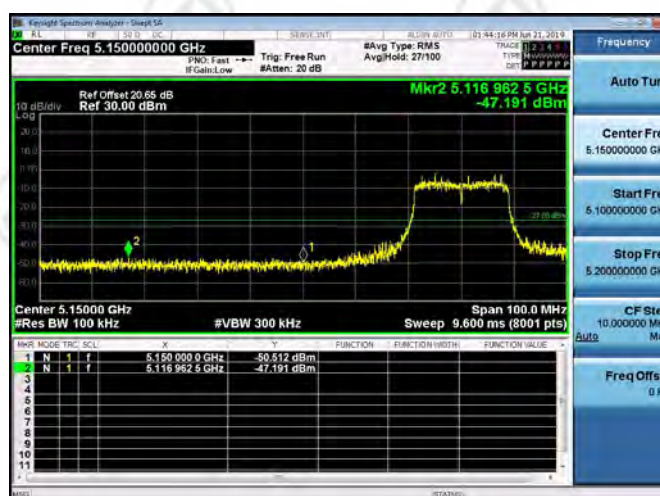
11N40SISO-Ant2-5755



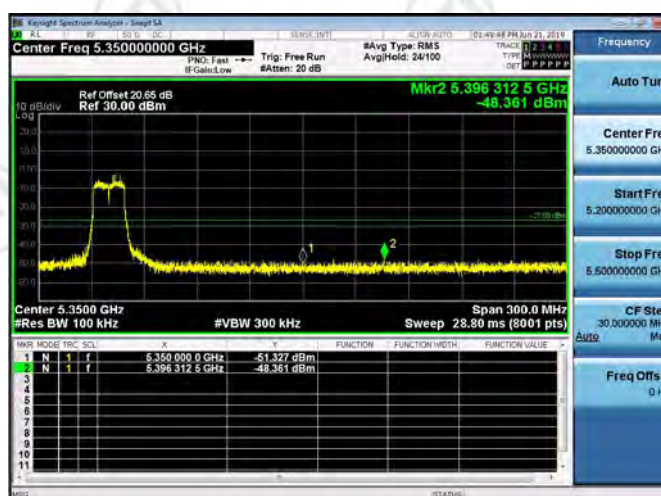
11N40SISO-Ant2-5795



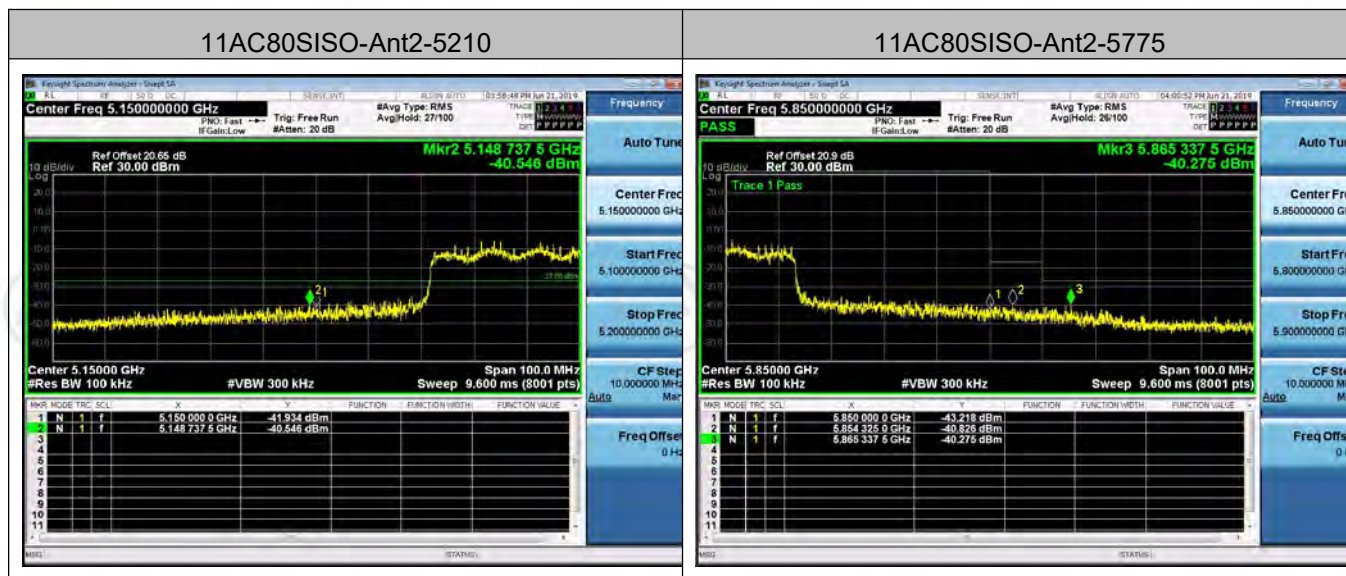
11AC20SISO-Ant2-5180



11AC20SISO-Ant2-5240







Appendix E): Frequency Stability

Frequency Error vs. Voltage:

WC0PR1601: Antenna 2

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	TN	VL	5179.98	-3.861004	PASS
			TN	VN	5180.04	7.722008	PASS
			TN	VH	5180.08	15.444015	PASS
11A	Ant1	5200	TN	VL	5200.08	15.384615	PASS
			TN	VN	5200.02	3.846154	PASS
			TN	VH	5199.98	-3.846154	PASS
11A	Ant1	5240	TN	VL	5240.02	3.816794	PASS
			TN	VN	5240.08	15.267176	PASS
			TN	VH	5240.08	15.267176	PASS
11A	Ant1	5745	TN	VL	5745.04	6.962576	PASS
			TN	VN	5745.04	6.962576	PASS
			TN	VH	5744.98	-3.481288	PASS
11A	Ant1	5785	TN	VL	5784.96	-6.914434	PASS
			TN	VN	5785	0	PASS
			TN	VH	5784.9	-17.286085	PASS
11A	Ant1	5825	TN	VL	5824.94	-10.300429	PASS
			TN	VN	5825.04	6.866953	PASS
			TN	VH	5824.98	-3.433476	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant1	5180	TN	VL	5180.02	3.861004	PASS
			TN	VN	5180.02	3.861004	PASS
			TN	VH	5180.02	3.861004	PASS
11N20	Ant1	5200	TN	VL	5200.02	3.846154	PASS
			TN	VN	5200.04	7.692308	PASS
			TN	VH	5200.06	11.538462	PASS
11N20	Ant1	5240	TN	VL	5240.02	3.816794	PASS
			TN	VN	5240.02	3.816794	PASS
			TN	VH	5239.94	-11.450382	PASS
11N20	Ant1	5745	TN	VL	5744.98	-3.481288	PASS
			TN	VN	5745.04	-3.481288	PASS
			TN	VH	5744.98	-6.962576	PASS
11N20	Ant1	5785	TN	VL	5785.06	10.371651	PASS
			TN	VN	5785.02	3.457217	PASS
			TN	VH	5784.96	-6.914434	PASS
11N20	Ant1	5825	TN	VL	5824.98	-3.433476	PASS
			TN	VN	5825	0	PASS
			TN	VH	5824.96	-6.866953	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant1	5190	TN	VL	5190	0	PASS
			TN	VN	5190.04	7.707129	PASS
			TN	VH	5190.08	15.414258	PASS
11N40	Ant1	5230	TN	VL	5230.08	15.296367	PASS
			TN	VN	5229.96	-7.648184	PASS
			TN	VH	5230	0	PASS
11N40	Ant1	5755	TN	VL	5755	0	PASS
			TN	VN	5755.04	6.950478	PASS
			TN	VH	5755.04	6.950478	PASS
11N40	Ant1	5795	TN	VL	5795	0	PASS
			TN	VN	5795.04	6.902502	PASS
			TN	VH	5795.04	6.902502	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant1	5180	TN	VL	5180	0	PASS
			TN	VN	5180.04	7.722008	PASS
			TN	VH	5180.04	7.722008	PASS
11AC20	Ant1	5200	TN	VL	5200	0	PASS
			TN	VN	5200	0	PASS
			TN	VH	5200.02	3.846154	PASS
11AC20	Ant1	5240	TN	VL	5239.96	-7.633588	PASS
			TN	VN	5240.1	19.083969	PASS
			TN	VH	5240.02	3.816794	PASS
11AC20	Ant1	5745	TN	VL	5744.98	-3.481288	PASS
			TN	VN	5745	0	PASS
			TN	VH	5744.98	-3.481288	PASS
11AC20	Ant1	5785	TN	VL	5785	0	PASS
			TN	VN	5784.96	-6.914434	PASS
			TN	VH	5785.02	3.457217	PASS
11AC20	Ant1	5825	TN	VL	5824.96	-6.866953	PASS
			TN	VN	5825.02	3.433476	PASS
			TN	VH	5824.96	-6.866953	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant1	5190	TN	VL	5190.04	7.707129	PASS
			TN	VN	5190.04	7.707129	PASS
			TN	VH	5189.92	-15.414258	PASS
11AC40	Ant1	5230	TN	VL	5230.08	15.296367	PASS
			TN	VN	5230.04	7.648184	PASS
			TN	VH	5230.04	7.648184	PASS
11AC40	Ant1	5755	TN	VL	5755.08	13.900956	PASS
			TN	VN	5755	0	PASS
			TN	VH	5755.04	6.950478	PASS
11AC40	Ant1	5795	TN	VL	5794.96	-6.902502	PASS
			TN	VN	5795.04	6.902502	PASS

			TN	VH	5795	0	PASS
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Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant1	5210	TN	VL	5210.08	15.355086	PASS
			TN	VN	5210	0	PASS
			TN	VH	5210.08	15.355086	PASS
11AC80	Ant1	5775	TN	VL	5775	0	PASS
			TN	VN	5775	0	PASS
			TN	VH	5775	0	PASS

**Frequency Error vs. Temperature:
WC0PR1601: Antenna 2**

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant1	5180	50	VN	5180.04	7.722008	PASS
			40	VN	5179.98	-3.861004	PASS
			30	VN	5180.08	15.444015	PASS
			20	VN	5180	0	PASS
			10	VN	5180.02	3.861004	PASS
			0	VN	5180	0	PASS
			-10	VN	5180	0	PASS
			-20	VN	5179.98	-3.861004	PASS
			-30	VN	5179.94	-11.583012	PASS
11A	Ant1	5200	50	VN	5200.02	3.846154	PASS
			40	VN	5199.96	-7.692308	PASS
			30	VN	5200.06	11.538462	PASS
			20	VN	5200.1	19.230769	PASS
			10	VN	5200.08	15.384615	PASS
			0	VN	5200.06	11.538462	PASS
			-10	VN	5200.04	7.692308	PASS
			-20	VN	5200.04	7.692308	PASS
			-30	VN	5200.04	7.692308	PASS
11A	Ant1	5240	50	VN	5240.08	15.267176	PASS
			40	VN	5240.06	11.450382	PASS
			30	VN	5240.06	11.450382	PASS
			20	VN	5240.06	11.450382	PASS
			10	VN	5240.04	7.633588	PASS
			0	VN	5240.04	7.633588	PASS
			-10	VN	5240.06	11.450382	PASS
			-20	VN	5239.96	-7.633588	PASS
			-30	VN	5239.96	-7.633588	PASS
11A	Ant1	5745	50	VN	5745.02	3.481288	PASS
			40	VN	5744.94	-10.443864	PASS
			30	VN	5745.08	13.925152	PASS

			20	VN	5745	0	PASS
			10	VN	5745.1	17.40644	PASS
			0	VN	5744.96	-6.962576	PASS
			-10	VN	5745	0	PASS
			-20	VN	5745.06	10.443864	PASS
			-30	VN	5745.08	13.925152	PASS
11A	Ant1	5785	50	VN	5784.98	-3.457217	PASS
			40	VN	5785	0	PASS
			30	VN	5784.98	-3.457217	PASS
			20	VN	5785	0	PASS
			10	VN	5784.94	-10.371651	PASS
			0	VN	5784.98	-3.457217	PASS
			-10	VN	5784.96	-6.914434	PASS
			-20	VN	5785.08	13.828868	PASS
			-30	VN	5785.02	3.457217	PASS
11A	Ant1	5825	50	VN	5825.08	13.733906	PASS
			40	VN	5825.02	3.433476	PASS
			30	VN	5825.04	6.866953	PASS
			20	VN	5825.04	6.866953	PASS
			10	VN	5825.04	6.866953	PASS
			0	VN	5825.02	3.433476	PASS
			-10	VN	5824.92	-13.733906	PASS
			-20	VN	5825.06	10.300429	PASS
			-30	VN	5824.96	-6.866953	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant1	5180	50	VN	5180.02	3.861004	PASS
			40	VN	5180.07	10.300429	PASS
			30	VN	5180.02	3.861004	PASS
			20	VN	5179.09	-6.866953	PASS
			10	VN	5180.02	3.861004	PASS
			0	VN	5180.08	15.444015	PASS
			-10	VN	5179.92	-15.444015	PASS

11N20	Ant1	5200	-20	VN	5180.02	3.861004	PASS
			-30	VN	5179.96	-7.722008	PASS
			50	VN	5200.04	7.692308	PASS
			40	VN	5200.02	3.846154	PASS
			30	VN	5199.98	-3.846154	PASS
			20	VN	5200.02	3.846154	PASS
			10	VN	5200.08	3.846154	PASS
			0	VN	5200.08	15.384615	PASS
			-10	VN	5199.92	-15.384615	PASS
			-20	VN	5200.08	15.384615	PASS
11N20	Ant1	5240	-30	VN	5200.04	7.692308	PASS
			50	VN	5240.04	7.633588	PASS
			40	VN	5240.08	15.267176	PASS
			30	VN	5239.92	-15.267176	PASS
			20	VN	5240.02	3.816794	PASS
			10	VN	5240.06	11.450382	PASS
			0	VN	5240.02	3.816794	PASS
			-10	VN	5240.02	3.816794	PASS
			-20	VN	5240.05	3.481288	PASS
			-30	VN	5240.08	15.267176	PASS
11N20	Ant1	5745	50	VN	5745.02	3.481288	PASS
			40	VN	5744.94	-10.443864	PASS
			30	VN	5744.96	-6.962576	PASS
			20	VN	5745.08	13.925152	PASS
			10	VN	5744.99	-13.925152	PASS
			0	VN	5744.92	-13.925152	PASS
			-10	VN	5745	0	PASS
			-20	VN	5744.98	-3.481288	PASS
			-30	VN	5745.02	3.481288	PASS
11N20	Ant1	5785	50	VN	5784.96	-6.914434	PASS
			40	VN	5785.1	17.286085	PASS
			30	VN	5784.96	-6.914434	PASS
			20	VN	5784.92	-13.828868	PASS

11N20	Ant1	5825	10	VN	5784.96	-6.914434	PASS
			0	VN	5785	0	PASS
			-10	VN	5784.96	-6.914434	PASS
			-20	VN	5784.98	-3.457217	PASS
			-30	VN	5784.94	-10.371651	PASS
			50	VN	5824.96	-6.866953	PASS
			40	VN	5824.92	-13.733906	PASS
			30	VN	5825.02	3.433476	PASS
			20	VN	5825.08	13.733906	PASS
11N20	Ant1	5825	10	VN	5825.04	6.866953	PASS
			0	VN	5825.08	13.733906	PASS
			-10	VN	5824.98	-3.433476	PASS
			-20	VN	5825.06	10.300429	PASS
			-30	VN	5825	0	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant1	5190	50	VN	5190.04	7.707129	PASS
			40	VN	5190	0	PASS
			30	VN	5190.08	15.414258	PASS
			20	VN	5190.08	15.414258	PASS
			10	VN	5190	0	PASS
			0	VN	5190.04	7.707129	PASS
			-10	VN	5190.04	0	PASS
			-20	VN	5190.04	7.707129	PASS
			-30	VN	5190	7.707129	PASS
11N40	Ant1	5230	50	VN	5230	0	PASS
			40	VN	5230.04	7.648184	PASS
			30	VN	5230.04	7.648184	PASS
			20	VN	5230	0	PASS
			10	VN	5229.96	-7.648184	PASS
			0	VN	5230.04	7.648184	PASS
			-10	VN	5230	0	PASS

11N40	Ant1	5755	-20	VN	5230.08	15.296367	PASS
			-30	VN	5230.04	7.648184	PASS
			50	VN	5755	0	PASS
			40	VN	5754.96	-6.950478	PASS
			30	VN	5755.04	6.950478	PASS
			20	VN	5755	0	PASS
			10	VN	5754.96	-6.950478	PASS
			0	VN	5755.04	6.950478	PASS
			-10	VN	5754.92	-13.900956	PASS
			-20	VN	5755.08	13.900956	PASS
			-30	VN	5755.04	6.950478	PASS
11N40	Ant1	5795	50	VN	5795	0	PASS
			40	VN	5795	0	PASS
			30	VN	5795.08	13.805004	PASS
			20	VN	5794.92	-13.805004	PASS
			10	VN	5795	0	PASS
			0	VN	5795	0	PASS
			-10	VN	5795.04	6.902502	PASS
			-20	VN	5795.04	6.902502	PASS
			-30	VN	5794.96	-6.902502	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant1	5180	50	VN	5180.02	3.861004	PASS
			40	VN	5180	0	PASS
			30	VN	5180.02	3.861004	PASS
			20	VN	5180	0	PASS
			10	VN	5180.02	3.861004	PASS
			0	VN	5180.08	15.444015	PASS
			-10	VN	5179.92	-15.444015	PASS
			-20	VN	5180	0	PASS
			-30	VN	5179.96	-7.722008	PASS
	Ant1	5200	50	VN	5200.04	7.692308	PASS
			40	VN	5200.02	3.846154	PASS

			30	VN	5199.98	-3.846154	PASS
			20	VN	5200.02	3.846154	PASS
			10	VN	5200	0	PASS
			0	VN	5200.08	15.384615	PASS
			-10	VN	5199.92	-15.384615	PASS
			-20	VN	5200.08	15.384615	PASS
			-30	VN	5200.04	7.692308	PASS
11AC20	Ant1	5240	50	VN	5240.04	7.633588	PASS
			40	VN	5240.08	15.267176	PASS
			30	VN	5239.92	-15.267176	PASS
			20	VN	5240.02	3.816794	PASS
			10	VN	5240.06	11.450382	PASS
			0	VN	5240.02	3.816794	PASS
			-10	VN	5240.02	3.816794	PASS
			-20	VN	5240	0	PASS
			-30	VN	5240.08	15.267176	PASS
11AC20	Ant1	5745	50	VN	5745.02	3.481288	PASS
			40	VN	5744.94	-10.443864	PASS
			30	VN	5744.96	-6.962576	PASS
			20	VN	5745.08	13.925152	PASS
			10	VN	5745	0	PASS
			0	VN	5744.92	-13.925152	PASS
			-10	VN	5745	0	PASS
			-20	VN	5744.98	-3.481288	PASS
			-30	VN	5745.02	3.481288	PASS
11AC20	Ant1	5785	50	VN	5784.96	-6.914434	PASS
			40	VN	5785.1	17.286085	PASS
			30	VN	5784.96	-6.914434	PASS
			20	VN	5784.92	-13.828868	PASS
			10	VN	5784.96	-6.914434	PASS
			0	VN	5785	0	PASS
			-10	VN	5785	0	PASS
			-20	VN	5785.08	13.828868	PASS

			-30	VN	5784.98	-3.457217	PASS
11AC20	Ant1	5825	50	VN	5825.02	3.433476	PASS
			40	VN	5824.92	-13.733906	PASS
			30	VN	5825	0	PASS
			20	VN	5824.96	-6.866953	PASS
			10	VN	5824.96	-6.866953	PASS
			0	VN	5825	0	PASS
			-10	VN	5825.02	3.433476	PASS
			-20	VN	5825	0	PASS
			-30	VN	5825	0	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant1	5190	50	VN	5190.04	7.707129	PASS
			40	VN	5190.08	15.414258	PASS
			30	VN	5190.04	7.707129	PASS
			20	VN	5190	0	PASS
			10	VN	5190.04	7.707129	PASS
			0	VN	5190.04	7.707129	PASS
			-10	VN	5190	0	PASS
			-20	VN	5190.04	7.707129	PASS
			-30	VN	5190	0	PASS
11AC40	Ant1	5230	50	VN	5230.04	7.648184	PASS
			40	VN	5230.04	7.648184	PASS
			30	VN	5230.08	15.296367	PASS
			20	VN	5230	0	PASS
			10	VN	5230	0	PASS
			0	VN	5230.04	7.648184	PASS
			-10	VN	5230.04	7.648184	PASS
			-20	VN	5230.04	7.648184	PASS
			-30	VN	5230.08	15.296367	PASS
11AC40	Ant1	5755	50	VN	5755	0	PASS
			40	VN	5755.04	6.950478	PASS
			30	VN	5755.08	13.900956	PASS

11AC40	Ant1	5795	20	VN	5755	0	PASS
			10	VN	5755	0	PASS
			0	VN	5755.04	6.950478	PASS
			-10	VN	5755	0	PASS
			-20	VN	5755.04	6.950478	PASS
			-30	VN	5754.96	-6.950478	PASS
			50	VN	5794.96	-6.902502	PASS
			40	VN	5795.04	6.902502	PASS
			30	VN	5795	0	PASS
			20	VN	5795	0	PASS
			10	VN	5794.92	-13.805004	PASS
			0	VN	5794.96	-6.902502	PASS
			-10	VN	5795	0	PASS
			-20	VN	5794.96	-6.902502	PASS
			-30	VN	5794.96	-6.902502	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant1	5210	50	VN	5210	0	PASS
			40	VN	5210.08	15.355086	PASS
			30	VN	5210.08	15.355086	PASS
			20	VN	5210.08	15.355086	PASS
			10	VN	5210.08	15.355086	PASS
			0	VN	5210	0	PASS
			-10	VN	5210.08	15.355086	PASS
			-20	VN	5210.08	15.355086	PASS
			-30	VN	5210.08	15.355086	PASS
11AC80	Ant1	5775	50	VN	5774.92	-13.852814	PASS
			40	VN	5775	0	PASS
			30	VN	5775	0	PASS
			20	VN	5775.08	13.852814	PASS
			10	VN	5775	0	PASS
			0	VN	5774.92	-13.852814	PASS
			-10	VN	5775.08	13.852814	PASS

			-20	VN	5775	0	PASS
			-30	VN	5774.92	-13.852814	PASS

Frequency Error vs. Voltage:
WC0PR1601: Antenna 2

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant2	5180	TN	VL	5180.06	11.583012	PASS
			TN	VN	5180	0	PASS
			TN	VH	5179.985	-2.895753	PASS
11A	Ant2	5200	TN	VL	5199.97	-5.769231	PASS
			TN	VN	5200.06	11.538462	PASS
			TN	VH	5199.985	-2.884615	PASS
11A	Ant2	5240	TN	VL	5239.97	-5.725191	PASS
			TN	VN	5239.94	-11.450382	PASS
			TN	VH	5240.03	5.725191	PASS
11A	Ant2	5745	TN	VL	5745.075	13.05483	PASS
			TN	VN	5745.09	15.665796	PASS
			TN	VH	5744.985	-2.610966	PASS
11A	Ant2	5785	TN	VL	5785.015	2.592913	PASS
			TN	VN	5784.955	-7.778738	PASS
			TN	VH	5785.075	12.964564	PASS
11A	Ant2	5825	TN	VL	5825.06	10.300429	PASS
			TN	VN	5825.06	10.300429	PASS
			TN	VH	5824.97	-5.150215	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant2	5180	TN	VL	5179.955	-8.687259	PASS
			TN	VN	5179.925	-14.478764	PASS
			TN	VH	5180.03	5.791506	PASS
11N20	Ant2	5200	TN	VL	5200.045	8.653846	PASS
			TN	VN	5199.985	-2.884615	PASS
			TN	VH	5199.985	-2.884615	PASS
11N20	Ant2	5240	TN	VL	5239.985	-2.862595	PASS
			TN	VN	5240	0	PASS
			TN	VH	5239.985	-2.862595	PASS
11N20	Ant2	5745	TN	VL	5744.985	-2.610966	PASS
			TN	VN	5745.09	-2.610966	PASS
			TN	VH	5744.985	-7.832898	PASS

11N20	Ant2	5785	TN	VL	5785.015	2.592913	PASS
			TN	VN	5784.97	-5.185825	PASS
			TN	VH	5785.015	2.592913	PASS
11N20	Ant2	5825	TN	VL	5824.985	-2.575107	PASS
			TN	VN	5824.97	-5.150215	PASS
			TN	VH	5825	0	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant2	5190	TN	VL	5189.91	-17.34104	PASS
			TN	VN	5190	0	PASS
			TN	VH	5190.06	11.560694	PASS
11N40	Ant2	5230	TN	VL	5230	0	PASS
			TN	VN	5229.97	-5.736138	PASS
			TN	VH	5230	0	PASS
11N40	Ant2	5755	TN	VL	5755	0	PASS
			TN	VN	5755.03	5.212858	PASS
			TN	VH	5754.97	-5.212858	PASS
11N40	Ant2	5795	TN	VL	5794.97	-5.176877	PASS
			TN	VN	5795.03	5.176877	PASS

			TN	VH	5795.03	5.176877	PASS
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Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant2	5180	TN	VL	5179.97	-5.791506	PASS
			TN	VN	5179.97	-5.791506	PASS
			TN	VH	5180	0	PASS
11AC20	Ant2	5200	TN	VL	5200.03	5.769231	PASS
			TN	VN	5200.03	5.769231	PASS
			TN	VH	5199.94	-11.538462	PASS
11AC20	Ant2	5240	TN	VL	5240.015	2.862595	PASS
			TN	VN	5240.015	2.862595	PASS
			TN	VH	5240.03	5.725191	PASS
11AC20	Ant2	5745	TN	VL	5745	0	PASS
			TN	VN	5744.97	-5.221932	PASS
			TN	VH	5745.03	5.221932	PASS
11AC20	Ant2	5785	TN	VL	5785.03	5.185825	PASS
			TN	VN	5785.015	2.592913	PASS
			TN	VH	5785.045	7.778738	PASS
11AC20	Ant2	5825	TN	VL	5825.015	2.575107	PASS
			TN	VN	5825.015	2.575107	PASS
			TN	VH	5825.015	2.575107	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant2	5190	TN	VL	5190.03	5.780347	PASS
			TN	VN	5190.06	11.560694	PASS
			TN	VH	5190.03	5.780347	PASS
11AC40	Ant2	5230	TN	VL	5230.06	11.472275	PASS
			TN	VN	5230.09	17.208413	PASS
			TN	VH	5229.97	-5.736138	PASS
11AC40	Ant2	5755	TN	VL	5755.03	5.212858	PASS
			TN	VN	5755.06	10.425717	PASS
			TN	VH	5755	0	PASS

11AC40	Ant2	5795	TN	VL	5795.06	10.353753	PASS
			TN	VN	5795.09	15.53063	PASS
			TN	VH	5794.94	-10.353753	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant2	5210	TN	VL	5210	0	PASS
			TN	VN	5209.92	-15.355086	PASS
			TN	VH	5210.08	15.355086	PASS
11AC80	Ant2	5775	TN	VL	5775	0	PASS
			TN	VN	5775	0	PASS
			TN	VH	5774.92	-13.852814	PASS

Frequency Error vs. Temperature:
WC0PR1601: Antenna 2

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	Ant2	5180	50	VN	5180	0	PASS
			40	VN	5179.94	-11.583012	PASS
			30	VN	5179.985	-2.895753	PASS
			20	VN	5180.015	2.895753	PASS
			10	VN	5179.925	-14.478764	PASS
			0	VN	5180	0	PASS
11A	Ant2	5200	50	VN	5199.97	-5.769231	PASS
			40	VN	5200.06	11.538462	PASS
			30	VN	5200.03	5.769231	PASS
			20	VN	5200.06	11.538462	PASS
			10	VN	5199.94	-11.538462	PASS
			0	VN	5199.97	-5.769231	PASS
11A	Ant2	5240	50	VN	5240.03	5.725191	PASS
			40	VN	5240.06	11.450382	PASS
			30	VN	5240.075	14.312977	PASS
			20	VN	5240.09	17.175573	PASS
			10	VN	5240.045	8.587786	PASS
			0	VN	5240.03	5.725191	PASS
11A	Ant2	5745	50	VN	5745.06	10.443864	PASS
			40	VN	5745.06	10.443864	PASS
			30	VN	5745.06	10.443864	PASS
			20	VN	5744.97	-5.221932	PASS
			10	VN	5745	0	PASS
			0	VN	5745.015	2.610966	PASS
11A	Ant2	5785	50	VN	5785.045	7.778738	PASS
			40	VN	5784.97	-5.185825	PASS
			30	VN	5785.045	7.778738	PASS
			20	VN	5784.97	-5.185825	PASS
			10	VN	5785.03	5.185825	PASS
			0	VN	5784.955	-7.778738	PASS
11A	Ant2	5825	50	VN	5824.985	-2.575107	PASS
			40	VN	5825.03	5.150215	PASS
			30	VN	5825	0	PASS

		20	VN	5825.03	5.150215	PASS
		10	VN	5825	0	PASS
		0	VN	5825.06	10.300429	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N20	Ant2	5180	50	VN	5179.91	-17.374517	PASS
			40	VN	5179.985	-2.895753	PASS
			30	VN	5179.97	-5.791506	PASS
			20	VN	5180.015	2.895753	PASS
			10	VN	5179.925	-14.478764	PASS
			0	VN	5179.97	-5.791506	PASS
11N20	Ant2	5200	50	VN	5200.015	2.884615	PASS
			40	VN	5199.985	-2.884615	PASS
			30	VN	5199.97	-5.769231	PASS
			20	VN	5200.03	5.769231	PASS
			10	VN	5199.94	-11.538462	PASS
			0	VN	5200.06	11.538462	PASS
11N20	Ant2	5240	50	VN	5240	0	PASS
			40	VN	5239.985	-2.862595	PASS
			30	VN	5239.97	-5.725191	PASS
			20	VN	5240.015	2.862595	PASS
			10	VN	5240.015	2.862595	PASS
			0	VN	5240.03	5.725191	PASS
11N20	Ant2	5745	50	VN	5744.94	-10.443864	PASS
			40	VN	5744.985	-2.610966	PASS
			30	VN	5745	0	PASS
			20	VN	5745.015	2.610966	PASS
			10	VN	5744.925	-13.05483	PASS
			0	VN	5745.09	15.665796	PASS
11N20	Ant2	5785	50	VN	5784.97	-5.185825	PASS
			40	VN	5784.97	-5.185825	PASS
			30	VN	5785.03	5.185825	PASS
			20	VN	5785.015	2.592913	PASS
			10	VN	5785	0	PASS
			0	VN	5784.97	-5.185825	PASS
11N20	Ant2	5825	50	VN	5824.955	-7.725322	PASS
			40	VN	5825.015	2.575107	PASS

			30	VN	5824.985	-2.575107	PASS
			20	VN	5825	0	PASS
			10	VN	5825.075	12.875536	PASS
			0	VN	5824.97	-5.150215	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11N40	Ant2	5190	50	VN	5190	0	PASS
			40	VN	5190	0	PASS
			30	VN	5190	0	PASS
			20	VN	5190	0	PASS
			10	VN	5189.97	-5.780347	PASS
			0	VN	5190	0	PASS
11N40	Ant2	5230	50	VN	5230.06	11.472275	PASS
			40	VN	5230	0	PASS
			30	VN	5230.03	5.736138	PASS
			20	VN	5230	0	PASS
			10	VN	5230.03	5.736138	PASS
			0	VN	5230.03	5.736138	PASS
11N40	Ant2	5755	50	VN	5755.06	10.425717	PASS
			40	VN	5755	0	PASS
			30	VN	5755.03	5.212858	PASS
			20	VN	5755	0	PASS
			10	VN	5755.03	5.212858	PASS
			0	VN	5755	0	PASS
11N40	Ant2	5795	50	VN	5795	0	PASS
			40	VN	5794.97	-5.176877	PASS
			30	VN	5795.03	5.176877	PASS
			20	VN	5795	0	PASS
			10	VN	5795.06	10.353753	PASS
			0	VN	5795	0	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC20	Ant2	5180	50	VN	5180.015	2.895753	PASS
			40	VN	5179.985	-2.895753	PASS
			30	VN	5179.97	-5.791506	PASS
			20	VN	5180.015	2.895753	PASS
			10	VN	5180.015	2.895753	PASS
			0	VN	5179.955	-8.687259	PASS
11AC20	Ant2	5200	50	VN	5200.03	5.769231	PASS
			40	VN	5200.015	2.884615	PASS
			30	VN	5200.09	17.307692	PASS
			20	VN	5199.955	-8.653846	PASS
			10	VN	5199.985	-2.884615	PASS
			0	VN	5199.97	-5.769231	PASS
11AC20	Ant2	5240	50	VN	5240	0	PASS
			40	VN	5239.985	-2.862595	PASS
			30	VN	5240.045	8.587786	PASS
			20	VN	5239.985	-2.862595	PASS
			10	VN	5240.045	8.587786	PASS
			0	VN	5240.045	8.587786	PASS
11AC20	Ant2	5745	50	VN	5744.955	-7.832898	PASS
			40	VN	5745.015	2.610966	PASS
			30	VN	5744.985	-2.610966	PASS
			20	VN	5745	0	PASS
			10	VN	5744.895	-18.276762	PASS
			0	VN	5744.94	-10.443864	PASS
11AC20	Ant2	5785	50	VN	5785	0	PASS
			40	VN	5784.97	-5.185825	PASS
			30	VN	5785.015	2.592913	PASS
			20	VN	5784.985	-2.592913	PASS
			10	VN	5784.97	-5.185825	PASS
			0	VN	5784.94	-10.371651	PASS
11AC20	Ant2	5825	50	VN	5824.91	-15.450644	PASS
			40	VN	5825.015	2.575107	PASS
			30	VN	5825	0	PASS
			20	VN	5824.94	-10.300429	PASS
			10	VN	5825	0	PASS
			0	VN	5824.94	-10.300429	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC40	Ant2	5190	50	VN	5190.03	5.780347	PASS
			40	VN	5190	0	PASS
			30	VN	5190.03	5.780347	PASS
			20	VN	5190	0	PASS
			10	VN	5190.03	5.780347	PASS
			0	VN	5190.03	5.780347	PASS
11AC40	Ant2	5230	50	VN	5230	0	PASS
			40	VN	5230.03	5.736138	PASS
			30	VN	5230.03	5.736138	PASS
			20	VN	5230	0	PASS
			10	VN	5230	0	PASS
			0	VN	5229.91	-17.208413	PASS
11AC40	Ant2	5755	50	VN	5755.06	10.425717	PASS
			40	VN	5754.94	-10.425717	PASS
			30	VN	5755.03	5.212858	PASS
			20	VN	5755	0	PASS
			10	VN	5755.06	10.425717	PASS
			0	VN	5755.06	10.425717	PASS
11AC40	Ant2	5795	50	VN	5795.03	5.176877	PASS
			40	VN	5794.97	-5.176877	PASS
			30	VN	5795	0	PASS
			20	VN	5795	0	PASS
			10	VN	5795	0	PASS
			0	VN	5795.03	5.176877	PASS

Test Mode	Antenna	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11AC80	Ant2	5210	50	VN	5210.08	15.355086	PASS
			40	VN	5210.08	15.355086	PASS
			30	VN	5210.08	15.355086	PASS
			20	VN	5210.08	15.355086	PASS
			10	VN	5210	0	PASS
			0	VN	5210	0	PASS
11AC80	Ant2	5775	50	VN	5775	0	PASS
			40	VN	5775.08	13.852814	PASS
			30	VN	5775.08	13.852814	PASS
			20	VN	5775.08	13.852814	PASS
			10	VN	5775.08	13.852814	PASS
			0	VN	5775.08	13.852814	PASS

Appendix F): Antenna Requirement

15.203 requirement:

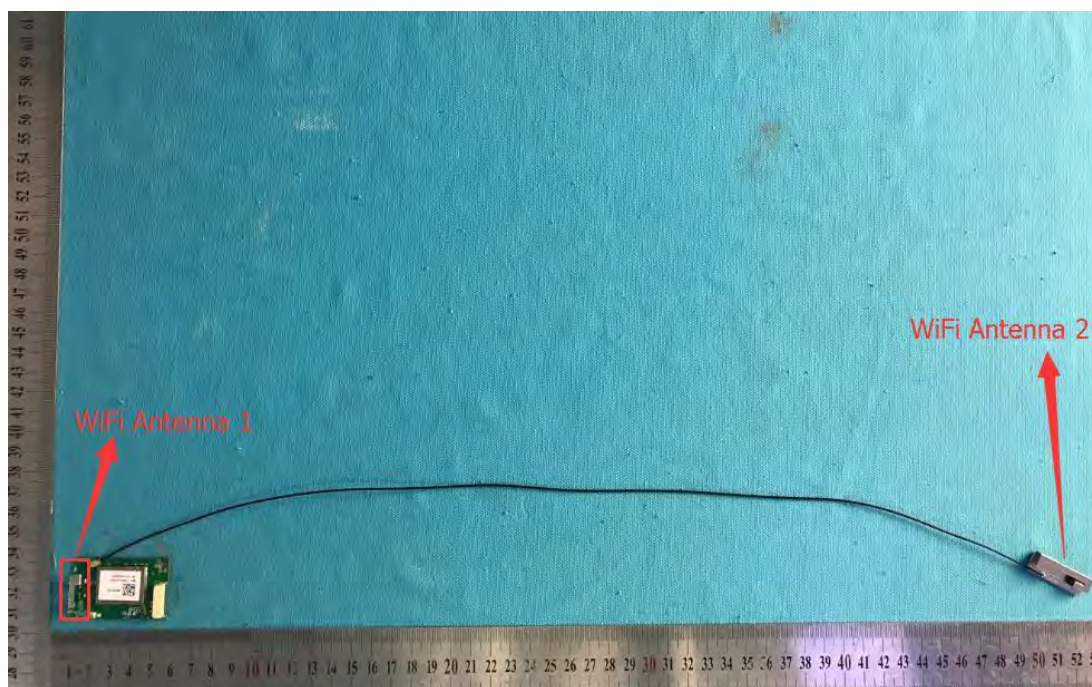
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 3dBi.



Appendix G): Operation in the absence of information to the transmit

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

Operation never ceases as information from cell town is always present. (manufacturer declare)

Appendix H): AC Power Line Conducted Emission

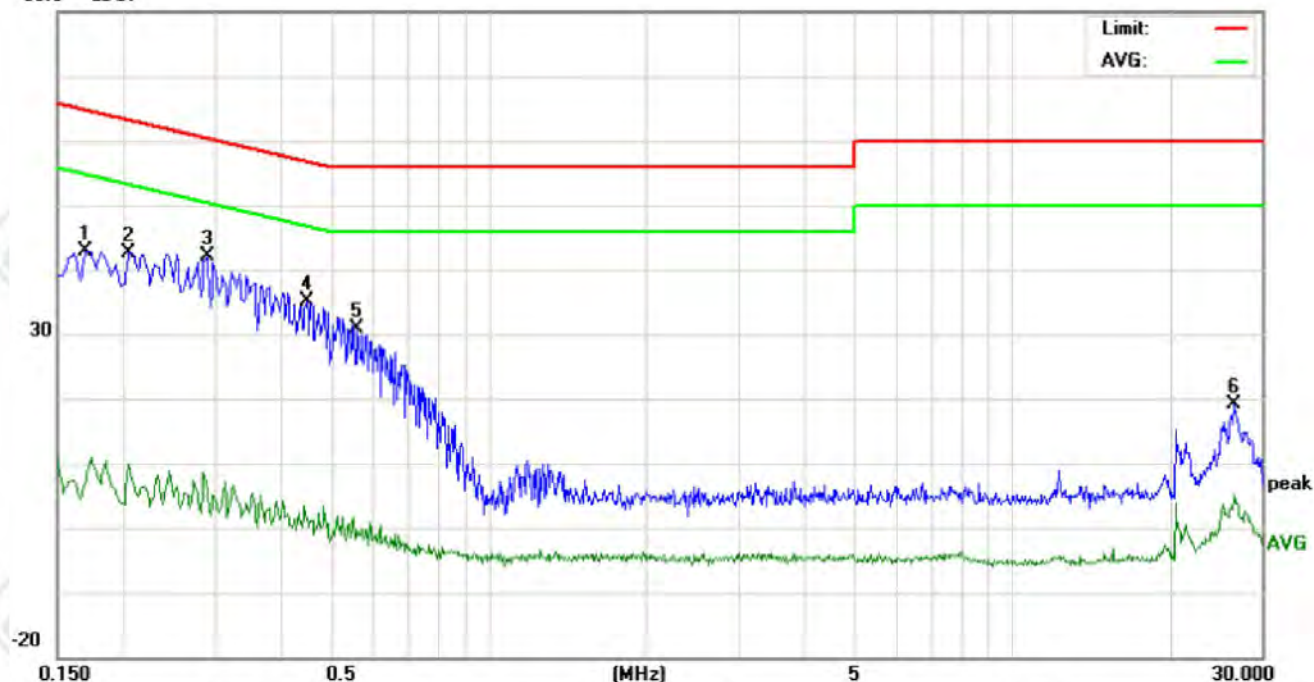
Test Procedure:	Test frequency range :150KHz-30MHz 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (LineImpedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT wereconnected to a second LISN 2, which was bonded to the groundreference plane in the same way as the LISN 1 for the unit beingmeasured. A multiple socket outlet strip was used to connect multiplepower cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above theground reference plane. And for floor-standing arrangement, the EUT wasplaced on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal groundreference plane. The LISN 1 was placed 0.8 m from the boundary of theunit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance wasbetween the closest points of the LISN 1 and the EUT. All other unit ofthe EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.																
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency			Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
Test Ambient:	Temp.: 25°C	Humid.: 52%	Press.: 101kPa														

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:

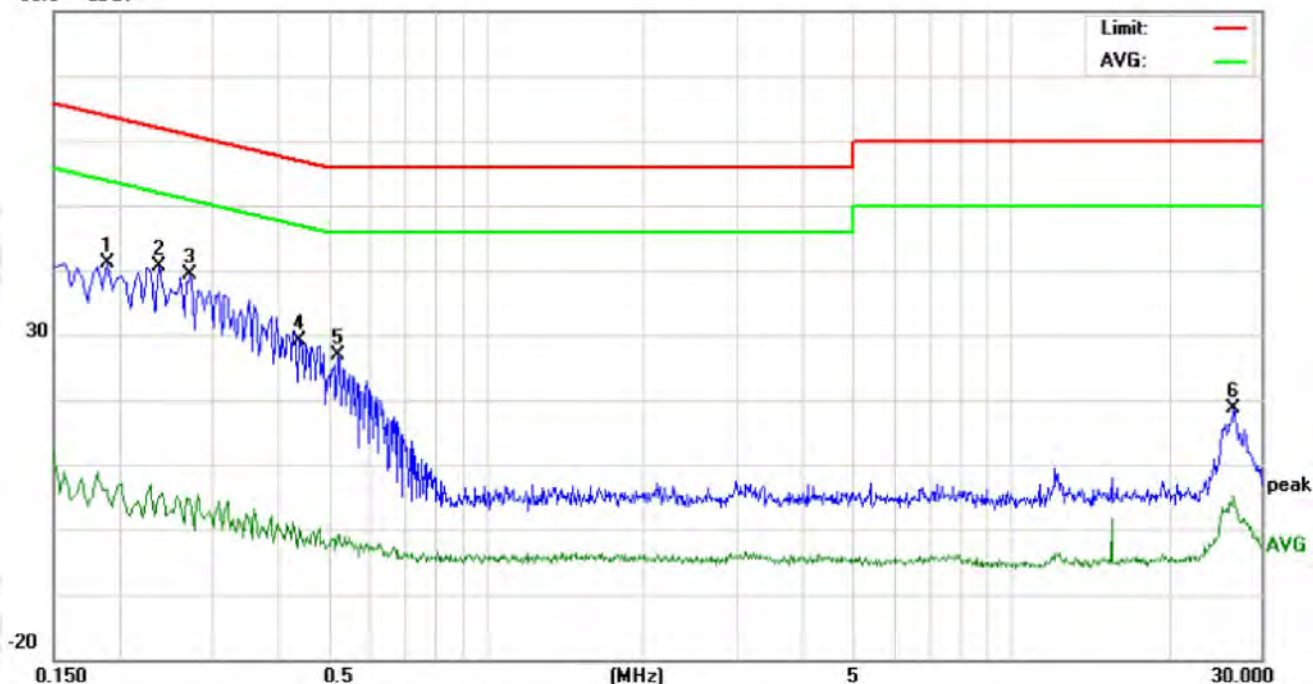
80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1700	33.05	30.46	-3.00	9.91	42.96	40.37	6.91	64.96	54.96	-24.59	-48.05	P	
2	0.2060	32.75	29.64	-0.03	9.92	42.67	39.56	9.89	63.36	53.36	-23.80	-43.47	P	
3	0.2900	32.02	29.74	-3.80	9.99	42.01	39.73	6.19	60.52	50.52	-20.79	-44.33	P	
4	0.4500	25.22	22.40	-8.42	9.89	35.11	32.29	1.47	56.87	46.87	-24.58	-45.40	P	
5	0.5620	20.89	16.52	-10.6	9.99	30.88	26.51	-0.70	56.00	46.00	-29.49	-46.70	P	
6	26.4380	9.22	6.12	-5.19	9.94	19.16	16.06	4.75	60.00	50.00	-43.94	-45.25	P	

Neutral line:

80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1900	31.30	28.13	-3.85	9.91	41.21	38.04	6.06	64.03	54.03	-25.99	-47.97	P	
2	0.2380	30.66	27.33	-4.80	9.94	40.60	37.27	5.14	62.16	52.16	-24.89	-47.02	P	
3	0.2740	29.35	26.47	-5.45	9.98	39.33	36.45	4.53	60.99	50.99	-24.54	-46.46	P	
4	0.4420	19.15	16.52	-9.83	9.89	29.04	26.41	0.06	57.02	47.02	-30.61	-46.96	P	
5	0.5220	17.07	14.75	-10.9	9.93	27.00	24.68	-0.97	56.00	46.00	-31.32	-46.97	P	
6	26.5740	8.57	4.56	-4.82	9.94	18.51	14.50	5.12	60.00	50.00	-45.50	-44.88	P	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

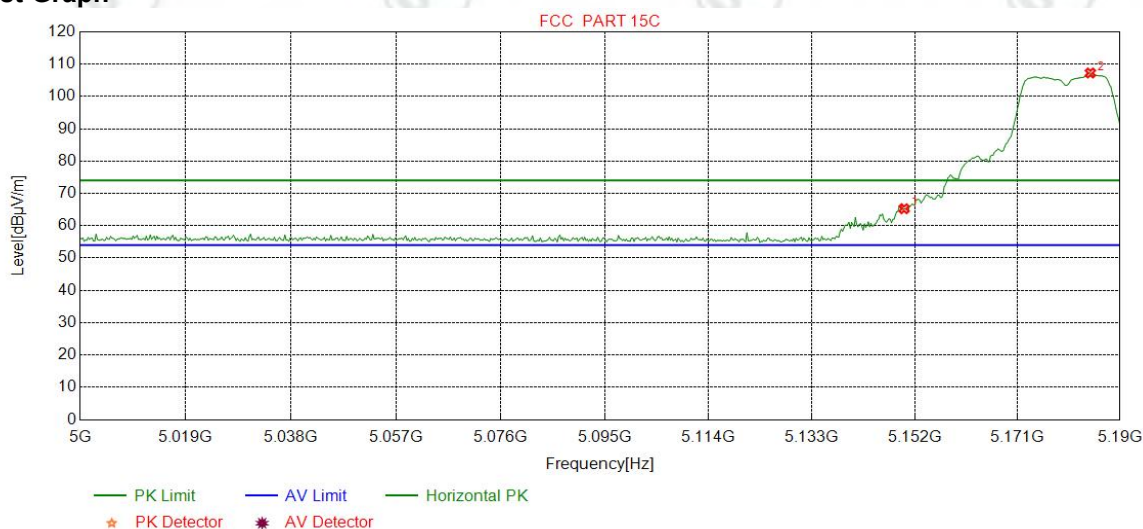
Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	
		Peak	1MHz	VBW≤RBW/100,but not less than 10 Hz	Average	
Test Procedure:	Below 1GHz test procedure as below: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel					
	Above 1GHz test procedure as below: Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.					
	Limit:	Frequency		Limit (dBμV/m @3cm)		Remark
		30MHz-88MHz		40.0		Quasi-peak Value
		88MHz-216MHz		43.5		Quasi-peak Value
		216MHz-960MHz		46.0		Quasi-peak Value
		960MHz-1GHz		54.0		Quasi-peak Value
		Above 1GHz		54.0		Average Value
				74.0		Peak Value
	Note: Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.					
Test Ambient:	Temp.: 25°C		Humid.: 51%		Press.: 101kPa	

Test plot as follows:

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

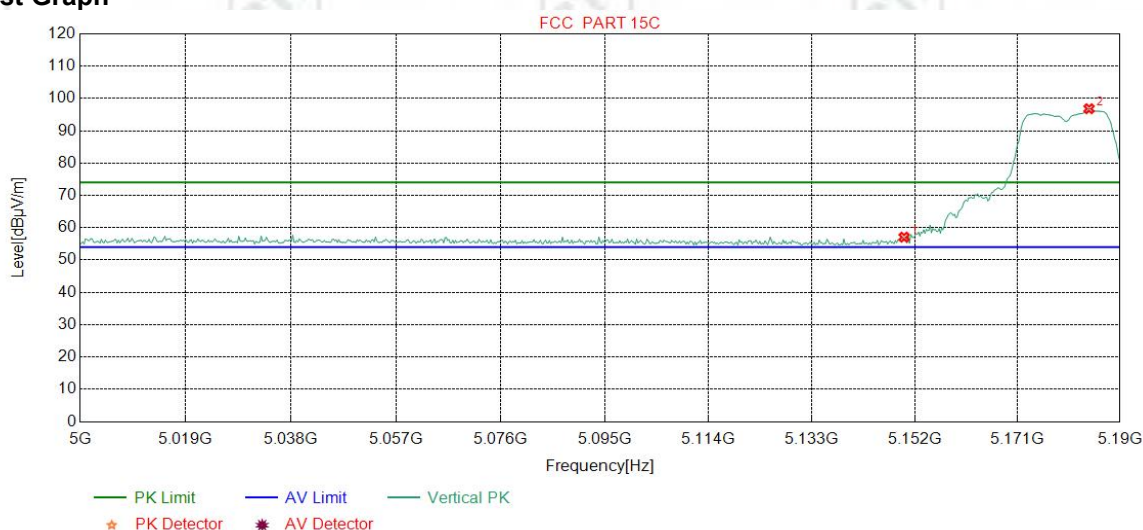
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	56.08	65.27	74.00	8.73	Pass	Horizontal
2	5184.5307	34.68	15.42	-40.55	97.71	107.26	74.00	-33.26	Pass	Horizontal

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

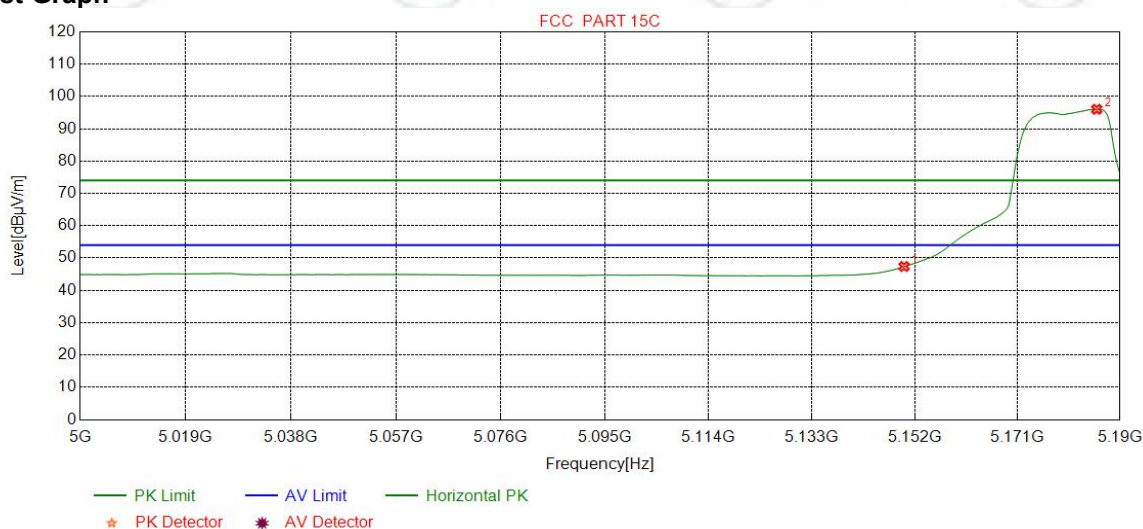
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	47.89	57.08	74.00	16.92	Pass	Vertical
2	5184.2929	34.68	15.42	-40.55	87.28	96.83	74.00	-22.83	Pass	Vertical

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

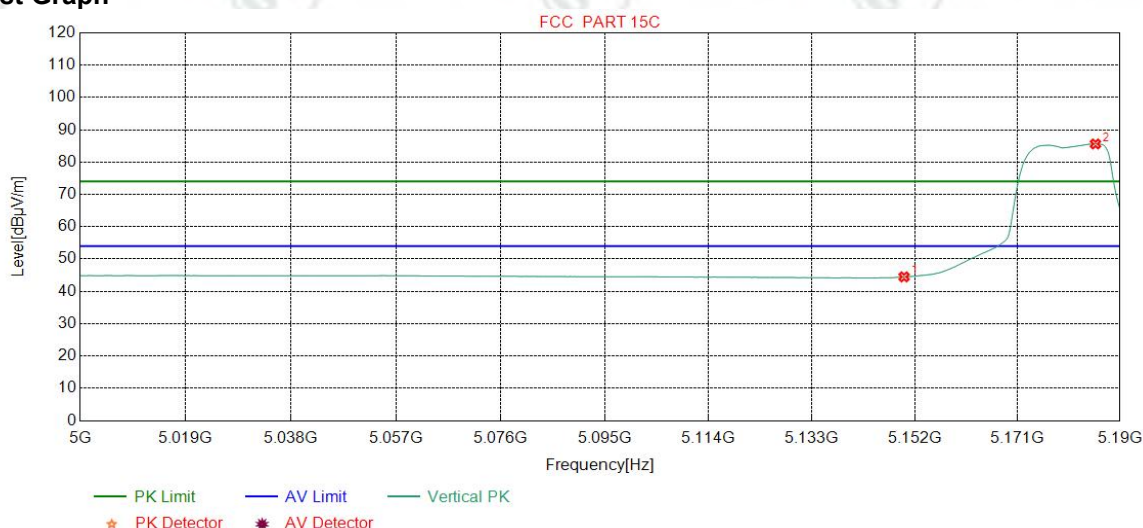
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	38.20	47.39	54.00	6.61	Pass	Horizontal
2	5185.7197	34.69	15.43	-40.56	86.48	96.04	54.00	-42.04	Pass	Horizontal

Mode:	802.11 a(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

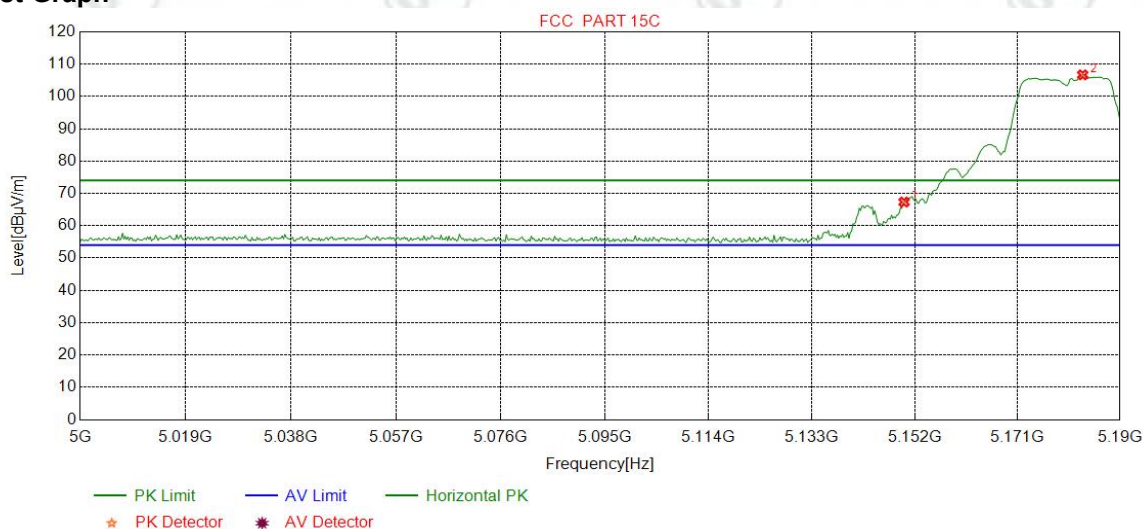
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	35.30	44.49	54.00	9.51	Pass	Vertical
2	5185.4819	34.69	15.43	-40.56	76.06	85.62	54.00	-31.62	Pass	Vertical

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

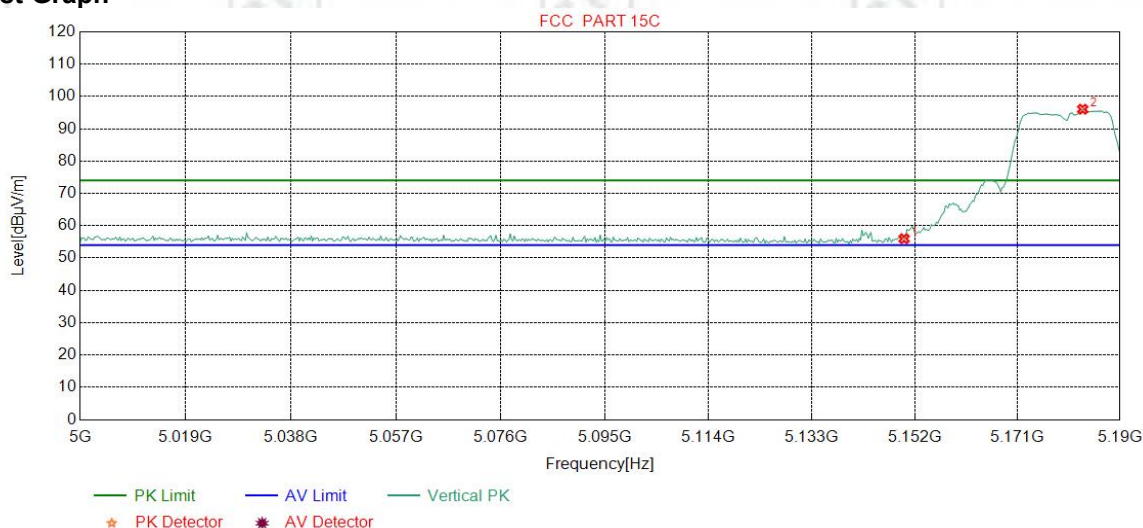
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	58.14	67.33	74.00	6.67	Pass	Horizontal
2	5183.1039	34.68	15.40	-40.54	97.15	106.69	74.00	-32.69	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

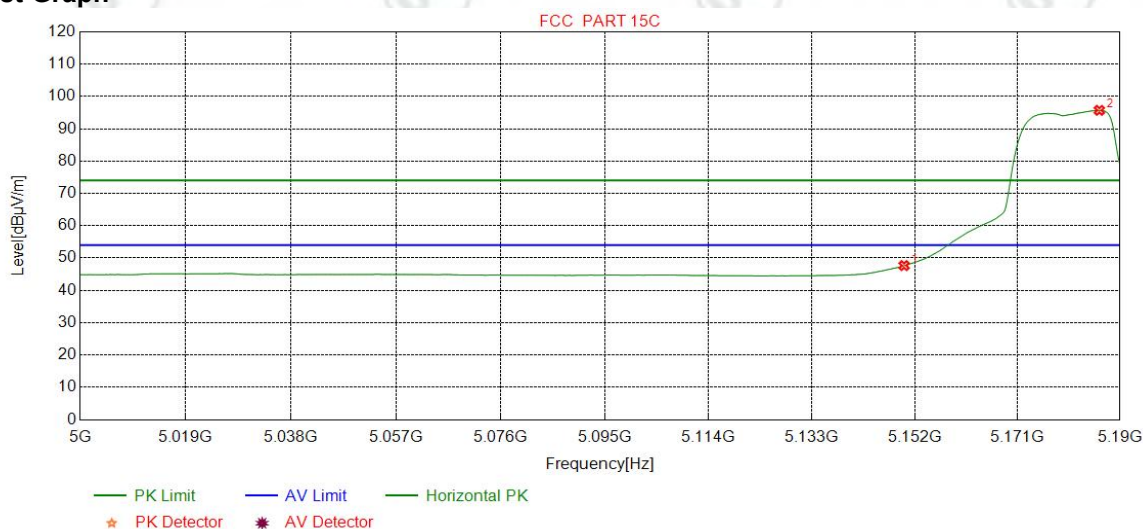
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	46.80	55.99	74.00	18.01	Pass	Vertical
2	5183.1039	34.68	15.40	-40.54	86.52	96.06	74.00	-22.06	Pass	Vertical

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

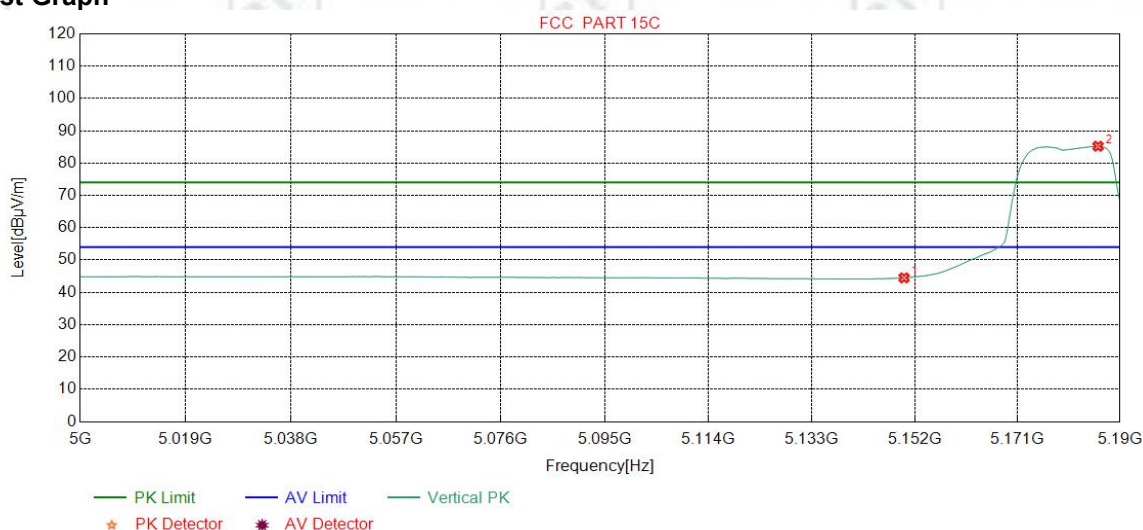
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	38.48	47.67	54.00	6.33	Pass	Horizontal
2	5186.1952	34.69	15.43	-40.55	86.14	95.71	54.00	-41.71	Pass	Horizontal

Mode:	802.11 n(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

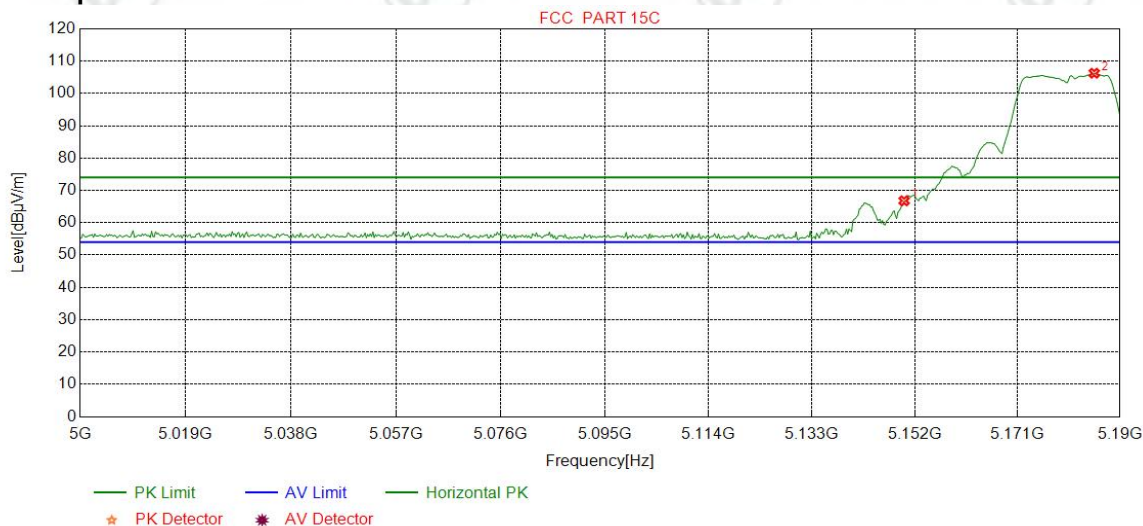
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	35.30	44.49	54.00	9.51	Pass	Vertical
2	5185.9574	34.69	15.43	-40.55	75.65	85.22	54.00	-31.22	Pass	Vertical

Mode:	802.11 ac(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

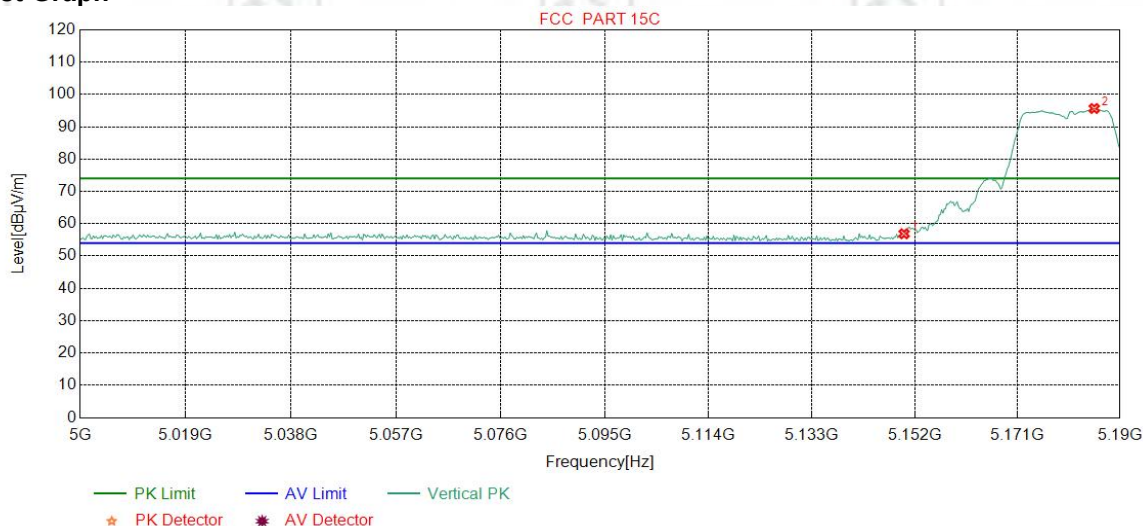
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	57.60	66.79	74.00	7.21	Pass	Horizontal
2	5185.2441	34.69	15.43	-40.56	96.71	106.27	74.00	-32.27	Pass	Horizontal

Mode:	802.11 ac(HT20Mbps) Transmitting	Channel:	5180
Remark:	PK		

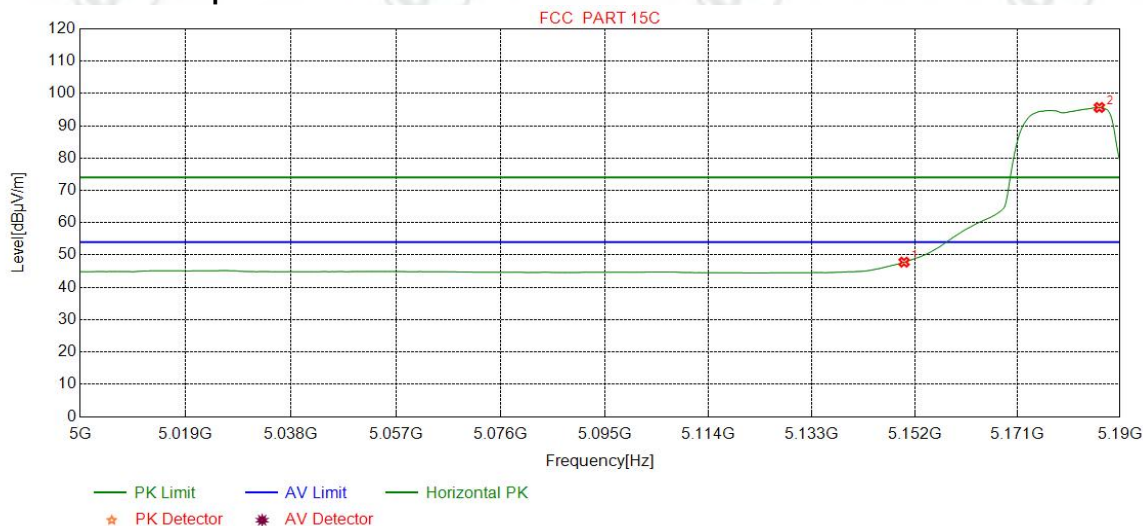
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	47.70	56.89	74.00	17.11	Pass	Vertical
2	5185.2441	34.69	15.43	-40.56	86.10	95.66	74.00	-21.66	Pass	Vertical

Mode:	802.11 ac(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

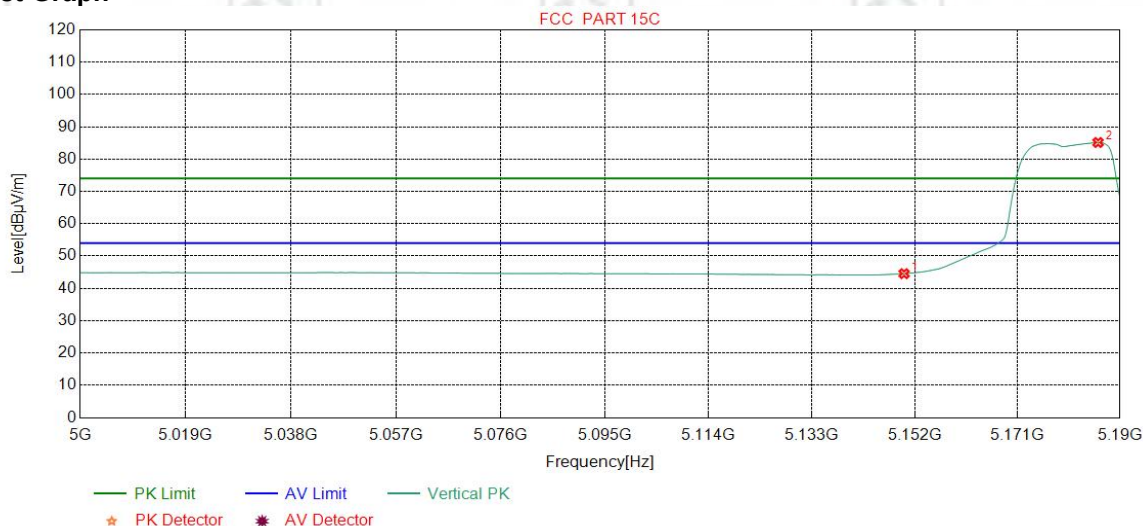
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	38.62	47.81	54.00	6.19	Pass	Horizontal
2	5186.1952	34.69	15.43	-40.55	86.09	95.66	54.00	-41.66	Pass	Horizontal

Mode:	802.11 ac(HT20Mbps) Transmitting	Channel:	5180
Remark:	AV		

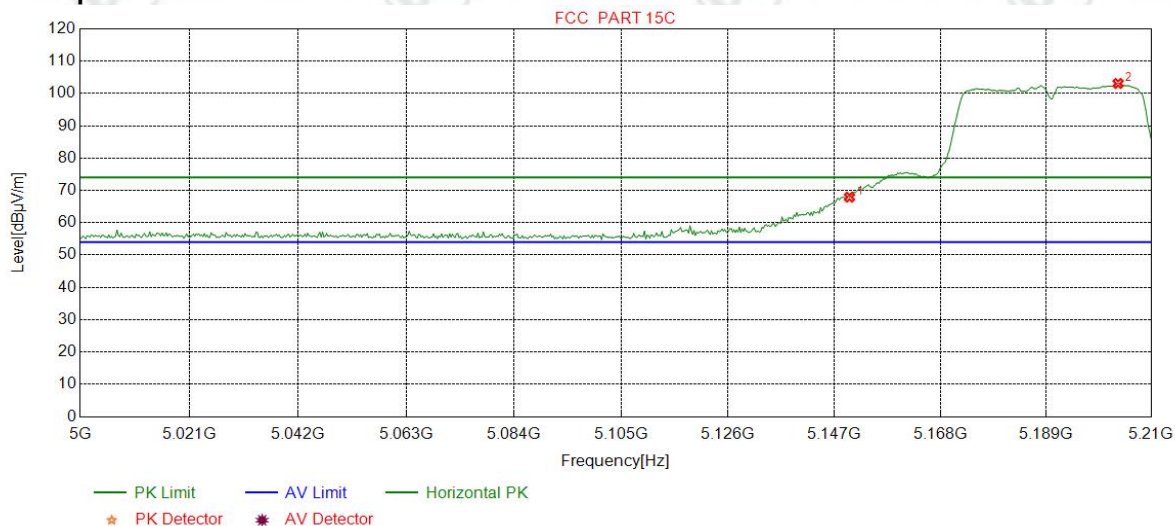
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	35.36	44.55	54.00	9.45	Pass	Vertical
2	5185.9574	34.69	15.43	-40.55	75.57	85.14	54.00	-31.14	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

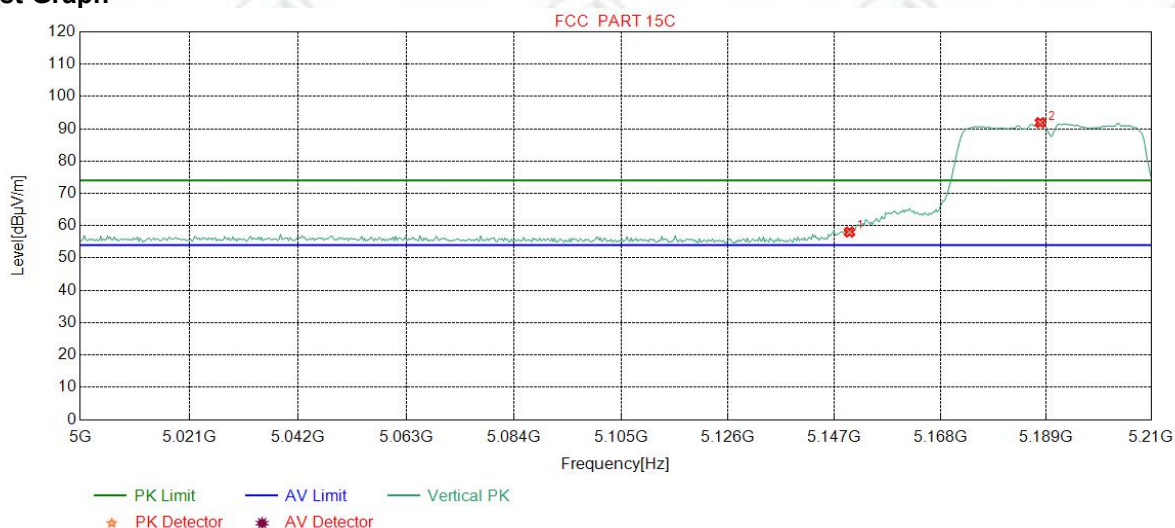
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	58.73	67.92	74.00	6.08	Pass	Horizontal
2	5203.4293	34.70	15.55	-40.55	93.40	103.10	74.00	-29.10	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	PK		

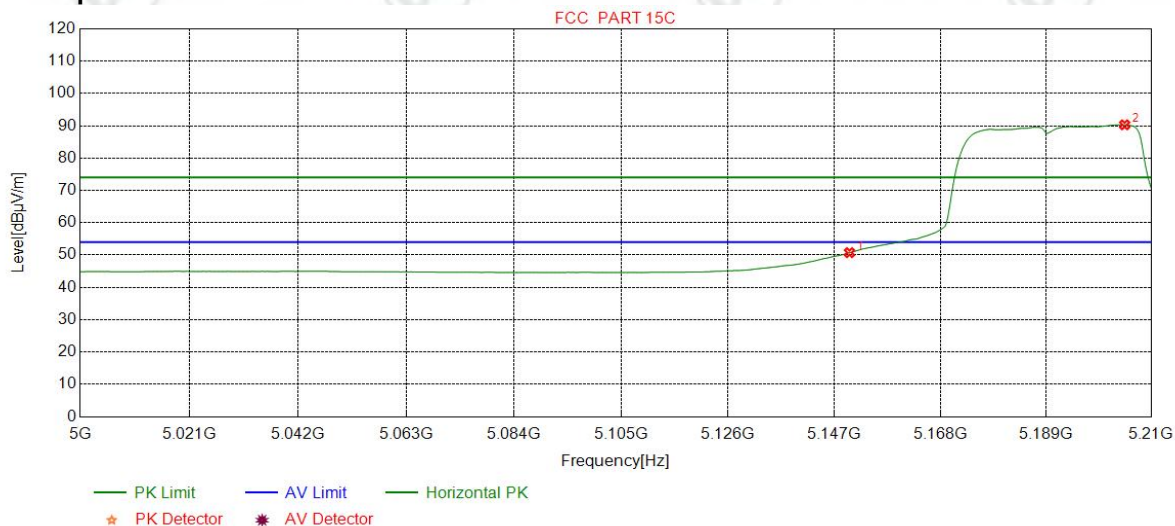
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	48.86	58.05	74.00	15.95	Pass	Vertical
2	5187.9224	34.69	15.45	-40.55	82.33	91.92	74.00	-17.92	Pass	Vertical

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

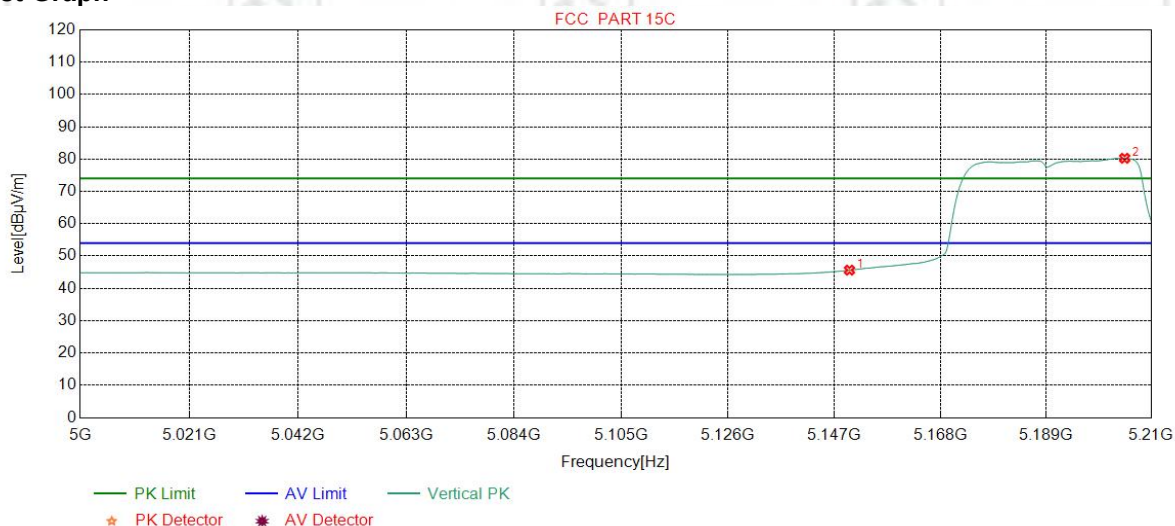
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	41.55	50.74	54.00	3.26	Pass	Horizontal
2	5204.7434	34.70	15.55	-40.55	80.60	90.30	54.00	-36.30	Pass	Horizontal

Mode:	802.11 n(HT40Mbps) Transmitting	Channel:	5190
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	5150.0000	34.65	15.08	-40.54	36.46	45.65	54.00	8.35	Pass	Vertical
2	5204.7434	34.70	15.55	-40.55	70.56	80.26	54.00	-26.26	Pass	Vertical