



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2433-2, XT2433-1  
**FCC ID** : IHDT56AS4  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure  
**TEST DATE(S)** : Apr. 26, 2024 ~ Jul. 04, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

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People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR422904E	Rev. 01	Initial issue of report	Jul. 26, 2024



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.09 dB at 5470.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 10.32 dB at 0.184 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W, Merchandise Mart Plaza,Chicago,IL60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W, Merchandise Mart Plaza,Chicago,IL60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Motorola
Model Name	XT2433-2, XT2433-1
FCC ID	IHDT56AS4
IMEI Code	Conducted: 356304130012194/356304130012202 Conduction: 356304130012830/356304130012848 Radiation: 356304130083377/356304130123181
HW Version	DVT2
SW Version	UOA34.101
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The two models are only different for market segment, all the others are same.

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 17.79 dBm / 0.0601 W 802.11n HT20 : 16.96 dBm / 0.0497 W 802.11n HT40 : 15.19 dBm / 0.0330 W 802.11ac VHT20: 17.27 dBm / 0.0533 W 802.11ac VHT40: 15.71 dBm / 0.0372 W 802.11ac VHT80: 13.69 dBm / 0.0234 W <5260 MHz ~ 5320 MHz> 802.11a : 18.28 dBm / 0.0673 W



	<p>802.11n HT20 : 17.49 dBm / 0.0561 W  802.11n HT40 : 14.96 dBm / 0.0313 W  802.11ac VHT20: 17.67 dBm / 0.0585 W  802.11ac VHT40: 15.62 dBm / 0.0340 W  802.11ac VHT80: 14.87 dBm / 0.0307 W</p> <p><b>&lt;5500 MHz ~ 5720 MHz &gt;</b>  802.11a : 18.14 dBm / 0.0652 W  802.11n HT20 : 17.57 dBm / 0.0571 W  802.11n HT40 : 15.45 dBm / 0.0351 W  802.11ac VHT20: 17.61 dBm / 0.0577 W  802.11ac VHT40: 16.05 dBm / 0.0403 W  802.11ac VHT80: 15.60 dBm / 0.0363 W</p> <p><b>&lt;5745 MHz ~ 5825 MHz&gt;</b>  802.11a : 18.48 dBm / 0.0705 W  802.11n HT20 : 17.65 dBm / 0.0582 W  802.11n HT40 : 15.61 dBm / 0.0364 W  802.11ac VHT20: 17.69 dBm / 0.0587 W  802.11ac VHT40: 15.96 dBm / 0.0394 W  802.11ac VHT80: 15.62 dBm / 0.0365 W</p>
<p><b>99% Occupied Bandwidth</b></p>	<p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b>  802.11a : 17.582 MHz  802.11ac VHT20 : 18.182 MHz  802.11ac VHT40 : 36.763 MHz  802.11ac VHT80 : 76.244 MHz</p> <p><b>&lt;5260 MHz ~ 5320 MHz&gt;</b>  802.11a : 17.902 MHz  802.11ac VHT20 : 18.302 MHz  802.11ac VHT40 : 36.763 MHz  802.11ac VHT80 : 76.244 MHz</p> <p><b>&lt;5500 MHz ~ 5720 MHz&gt;</b>  802.11a : 17.942 MHz  802.11ac VHT20 : 18.342 MHz  802.11ac VHT40 : 36.923 MHz  802.11ac VHT80 : 76.244 MHz</p> <p><b>&lt;5745 MHz ~ 5825 MHz&gt;</b>  802.11a : 17.862 MHz  802.11ac VHT20 : 18.342 MHz  802.11ac VHT40 : 36.763 MHz  802.11ac VHT80 : 75.924 MHz</p>
<p><b>Antenna Type / Gain</b></p>	<p><b>&lt;5180 MHz ~ 5240 MHz&gt;</b>  IFA Antenna with gain -3.4 dBi</p> <p><b>&lt;5260 MHz ~ 5320 MHz&gt;</b>  IFA Antenna with gain -3.4 dBi</p> <p><b>&lt;5500 MHz ~ 5720 MHz&gt;</b>  IFA Antenna with gain -3.8 dBi</p> <p><b>&lt;5745 MHz ~ 5825 MHz&gt;</b>  IFA Antenna with gain -4.7 dBi</p>
<p><b>Type of Modulation</b></p>	<p>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)  802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</p>

**Note:** For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing has assessed only 802.11ac VHT20/ VHT40 by referring to their higher conducted power.



### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH03-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 3.4 of this report

### 1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	CO01-KS	AUDIX	E3	6.2009-8-24
3.	03CH03-SZ	AUDIX	E3	6.2009-8-24



### 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

### 1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-201L
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-203L
AC Adapter 1(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-204
AC Adapter 1(AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-205L
AC Adapter 1(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-206L
AC Adapter 2(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-201L
AC Adapter 2(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-202L
AC Adapter 2(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-203L
AC Adapter 2(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-205L
AC Adapter 2(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-206L
AC Adapter 2(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-207L
AC Adapter 2(Chile)	Brand Name	Motorola(Salcomp)	Model Name	MC-209L
AC Adapter 3(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-201L
AC Adapter 3(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-202L
AC Adapter 3(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-206L
AC Adapter 3(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-207L
AC Adapter 4(BR)	Brand Name	Motorola(Cliptech)	Model Name	MC-207L
AC Adapter 5(IN)	Brand Name	Motorola(XIHI)	Model Name	MC-204
Battery 1	Brand Name	Motorola(ATL)	Model Name	QG50
Battery 2	Brand Name	Motorola(Sunwoda)	Model Name	QG50
Battery 3	Brand Name	Motorola(JIADE)	Model Name	QG50
USB Cable 1	Brand Name	Saibao	Model Name	SZN-A026A
USB Cable 2	Brand Name	Juwei	Model Name	JWUB1606-ZN01H





## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 <sup>#</sup>	5210		

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 <sup>#</sup>	5290	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 <sup>#</sup>	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 <sup>#</sup>	5775	165	5825



Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 <sup>#</sup>	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 <sup>#</sup>	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "\*" are 40MHz bandwidth.
2. The above Frequency and Channel in "<sup>#</sup>" are 80MHz bandwidth.

## 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

<b>AC Conducted Emission</b>	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link (5G) + USB Cable 2(Charging from Adapter 4) + Earphone
<b>Remark:</b> For Radiated Test Cases, The tests were performance with Adapter, Earphone and USB Cable.	

<b>Co-location</b>
<b>BLE CH39 TX + LTE Band 41 Link + 802.11ac VHT40 CH102 TX</b>



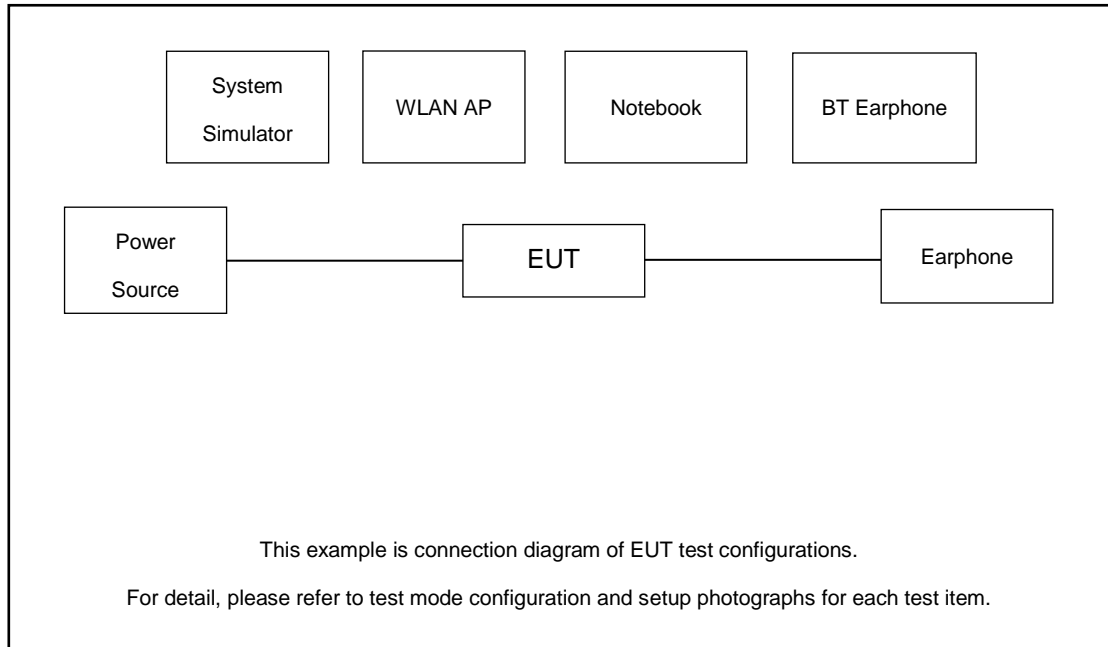
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

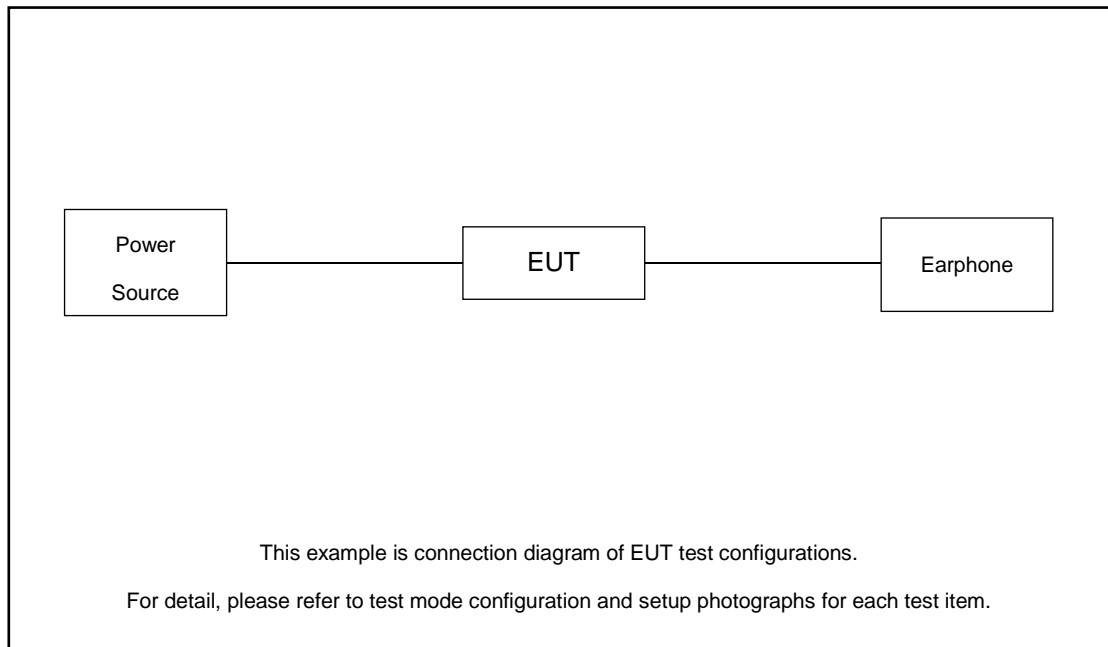
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	-	-
Straddle		-	-	138	-

## 2.3 Connection Diagram of Test System

Conducted Emission:



Radiated Emission:





### 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	Lenovo	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
5.	SD Card	Kingston	8GB	N/A	N/A	N/A
6.	Earphone	Apple	DZAY1V-A9007ZJ W3-000	Fcc DoC	N/A	N/A

### 2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

### 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

$$Offset = RF\ cable\ loss + attenuator\ factor.$$

Following shows an offset computation example with cable loss 4.28 dB and 10dB attenuator.

$$\begin{aligned}
Offset(dB) &= RF\ cable\ loss(dB) + attenuator\ factor(dB). \\
&= 4.28 + 10 = 14.28\ (dB)
\end{aligned}$$



### 3 Test Result

#### 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

##### 3.1.2 Measuring Instruments

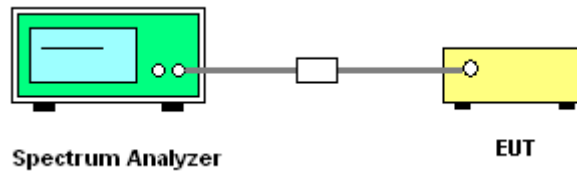
The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

<input checked="" type="checkbox"/>	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	<ol style="list-style-type: none"> <li>1. Set RBW = approximately 1% of the emission bandwidth.</li> <li>2. Set the VBW &gt; RBW.</li> <li>3. Detector = Peak.</li> <li>4. Trace mode = max hold</li> <li>5. Measure the maximum width of the emission that is 26 dB down from the peak 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%.</li> <li>6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.</li> <li>7. Measure and record the results in the test report.</li> </ol>
<input checked="" type="checkbox"/>	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	<ol style="list-style-type: none"> <li>1. Set RBW = 100kHz.</li> <li>2. Set the VBW ≥ 3 x RBW.</li> <li>3. Detector = Peak.</li> <li>4. Trace mode = max hold</li> <li>5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.</li> <li>6. Measure and record the results in the test report.</li> </ol>

### 3.1.4 Test Setup



### 3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable 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.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log_{10} B$ , where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



### 3.2.3 Test Procedures

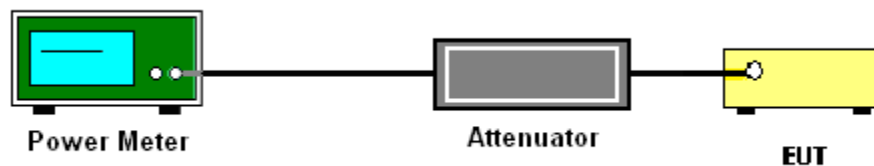
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

### 3.2.4 Test Setup





3.2.5 Test Result of Maximum Conducted Output Power

U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	/	Pass/Fail
11a	6Mbps	1	36	5180	0.20	16.42	23.98	-3.40		Pass
11a	6Mbps	1	44	5220	0.20	17.79	23.98	-3.40		Pass
11a	6Mbps	1	48	5240	0.20	17.72	23.98	-3.40		Pass
HT20	MCS0	1	36	5180	0.21	15.62	23.98	-3.40		Pass
HT20	MCS0	1	44	5220	0.21	16.96	23.98	-3.40		Pass
HT20	MCS0	1	48	5240	0.21	16.87	23.98	-3.40		Pass
HT40	MCS0	1	38	5190	0.44	12.52	23.98	-3.40		Pass
HT40	MCS0	1	46	5230	0.44	15.19	23.98	-3.40	/	Pass
VHT20	MCS0	1	36	5180	0.24	15.80	23.98	-3.40		Pass
VHT20	MCS0	1	44	5220	0.24	17.27	23.98	-3.40		Pass
VHT20	MCS0	1	48	5240	0.24	17.07	23.98	-3.40		Pass
VHT40	MCS0	1	38	5190	0.44	12.65	23.98	-3.40		Pass
VHT40	MCS0	1	46	5230	0.44	15.71	23.98	-3.40		Pass
VHT80	MCS0	1	42	5210	0.26	13.69	23.98	-3.40		Pass

U-NII-2A single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	52	5260	0.20	18.28	23.98	-3.40	30	Pass
11a	6Mbps	1	60	5300	0.20	18.23	23.98	-3.40	30	Pass
11a	6Mbps	1	64	5320	0.20	18.14	23.98	-3.40	30	Pass
HT20	MCS0	1	52	5260	0.21	17.49	23.98	-3.40	30	Pass
HT20	MCS0	1	60	5300	0.21	17.48	23.98	-3.40	30	Pass
HT20	MCS0	1	64	5320	0.21	17.39	23.98	-3.40	30	Pass
HT40	MCS0	1	54	5270	0.44	14.96	23.98	-3.40	30	Pass
HT40	MCS0	1	62	5310	0.44	14.20	23.98	-3.40	30	Pass
VHT20	MCS0	1	52	5260	0.24	17.63	23.98	-3.40	30	Pass
VHT20	MCS0	1	60	5300	0.24	17.67	23.98	-3.40	30	Pass
VHT20	MCS0	1	64	5320	0.24	17.65	23.98	-3.40	30	Pass
VHT40	MCS0	1	54	5270	0.44	15.62	23.98	-3.40	30	Pass
VHT40	MCS0	1	62	5310	0.44	14.75	23.98	-3.40	30	Pass
VHT80	MCS0	1	58	5290	0.26	14.87	23.98	-3.40	30	Pass



U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	100	5500	0.20	17.81	23.98	-3.80	30	Pass
11a	6Mbps	1	116	5580	0.20	18.14	23.98	-3.80	30	Pass
11a	6Mbps	1	136	5680	0.20	18.13	23.98	-3.80	30	Pass
11a	6Mbps	1	140	5700	0.20	13.22	23.98	-3.80	30	Pass
HT20	MCS0	1	100	5500	0.21	17.12	23.98	-3.80	30	Pass
HT20	MCS0	1	116	5580	0.21	17.57	23.98	-3.80	30	Pass
HT20	MCS0	1	136	5680	0.21	17.42	23.98	-3.80	30	Pass
HT20	MCS0	1	140	5700	0.21	12.49	23.98	-3.80	30	Pass
HT40	MCS0	1	102	5510	0.44	15.08	23.98	-3.80	30	Pass
HT40	MCS0	1	110	5550	0.44	15.45	23.98	-3.80	30	Pass
HT40	MCS0	1	134	5670	0.44	15.09	23.98	-3.80	30	Pass
VHT20	MCS0	1	100	5500	0.24	17.17	23.98	-3.80	30	Pass
VHT20	MCS0	1	116	5580	0.24	17.61	23.98	-3.80	30	Pass
VHT20	MCS0	1	136	5680	0.24	17.55	23.98	-3.80	30	Pass
VHT20	MCS0	1	140	5700	0.24	12.65	23.98	-3.80	30	Pass
VHT40	MCS0	1	102	5510	0.44	15.77	23.98	-3.80	30	Pass
VHT40	MCS0	1	110	5550	0.44	15.95	23.98	-3.80	30	Pass
VHT40	MCS0	1	134	5670	0.44	15.72	23.98	-3.80	30	Pass
VHT80	MCS0	1	106	5530	0.26	14.74	23.98	-3.80	30	Pass
VHT80	MCS0	1	122	5610	0.26	15.60	23.98	-3.80	30	Pass

U-NII-2C straddle channel single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
11a	6Mbps	1	144	5720	0.20	17.85	23.98	-3.80	30	Pass
HT20	MCS0	1	144	5720	0.21	17.18	23.98	-3.80	30	Pass
HT40	MCS0	1	142	5710	0.44	14.72	23.98	-3.80	30	Pass
VHT20	MCS0	1	144	5720	0.24	17.36	23.98	-3.80	30	Pass
VHT40	MCS0	1	142	5710	0.44	16.05	23.98	-3.80	30	Pass
VHT80	MCS0	1	138	5690	0.26	15.29	23.98	-3.80	30	Pass



U-NII-3 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/Fail
11a	6Mbps	1	149	5745	0.20	18.28	30.00	-4.70	Pass
11a	6Mbps	1	157	5785	0.20	18.36	30.00	-4.70	Pass
11a	6Mbps	1	165	5825	0.20	18.48	30.00	-4.70	Pass
HT20	MCS0	1	149	5745	0.21	17.59	30.00	-4.70	Pass
HT20	MCS0	1	157	5785	0.21	17.63	30.00	-4.70	Pass
HT20	MCS0	1	165	5825	0.21	17.65	30.00	-4.70	Pass
HT40	MCS0	1	151	5755	0.44	15.13	30.00	-4.70	Pass
HT40	MCS0	1	159	5795	0.44	15.61	30.00	-4.70	Pass
VHT20	MCS0	1	149	5745	0.24	17.63	30.00	-4.70	Pass
VHT20	MCS0	1	157	5785	0.24	17.67	30.00	-4.70	Pass
VHT20	MCS0	1	165	5825	0.24	17.69	30.00	-4.70	Pass
VHT40	MCS0	1	151	5755	0.44	15.65	30.00	-4.70	Pass
VHT40	MCS0	1	159	5795	0.44	15.96	30.00	-4.70	Pass
VHT80	MCS0	1	155	5775	0.26	15.62	30.00	-4.70	Pass



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.  
Section F) Maximum power spectral density.

#### **For devices operating in the bands UNII-1/2A/2C**

##### **# Method SA-2 #**

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW  $\geq$  3 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

#### **For devices operating in the band UNII-3**

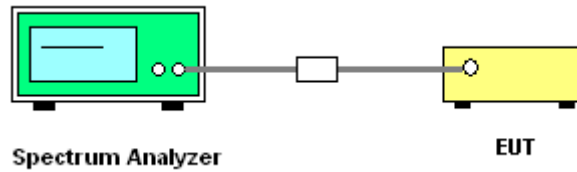
##### **# Method SA-2 #**

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
- Set VBW  $\geq$  1 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can't set RBW=500KHz, then add  $10 \log(500\text{kHz}/\text{RBW})$  to the test result.
- Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add  $10 \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



### 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of  $-27$  dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of  $-27$  dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of  $-27$  dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of  $-27$  dBm/MHz.

- (2) For transmitters operating in the 5.725-5.85 GHz band:  
15.407(b)(4)(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.





(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

(4) EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E<sub>Meas</sub> is the field strength of the emission at the measurement distance, in dBµV/m

d<sub>Meas</sub> is the measurement distance, in m

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

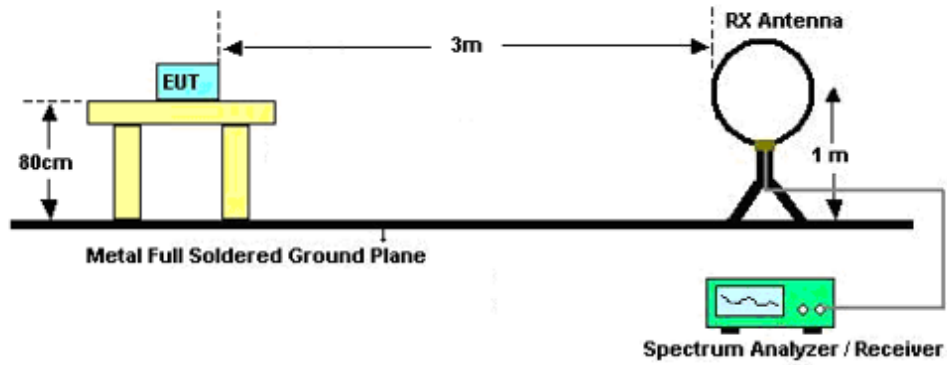


### 3.4.3 Test Procedures

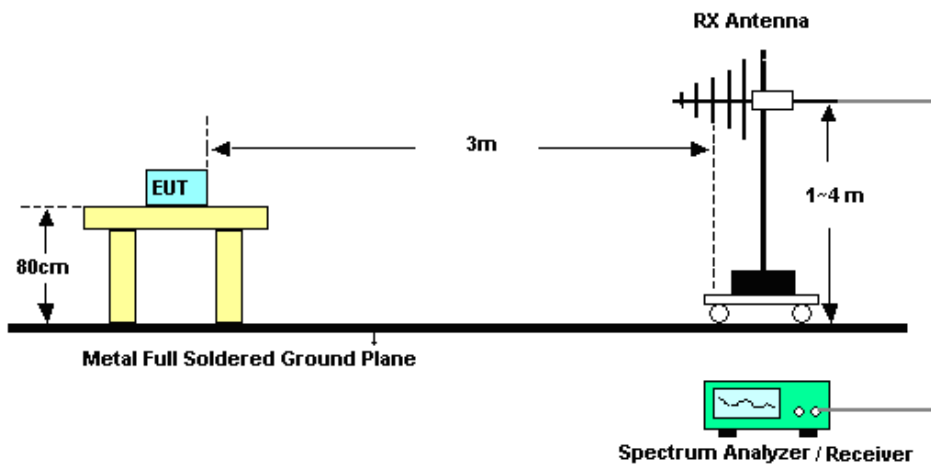
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

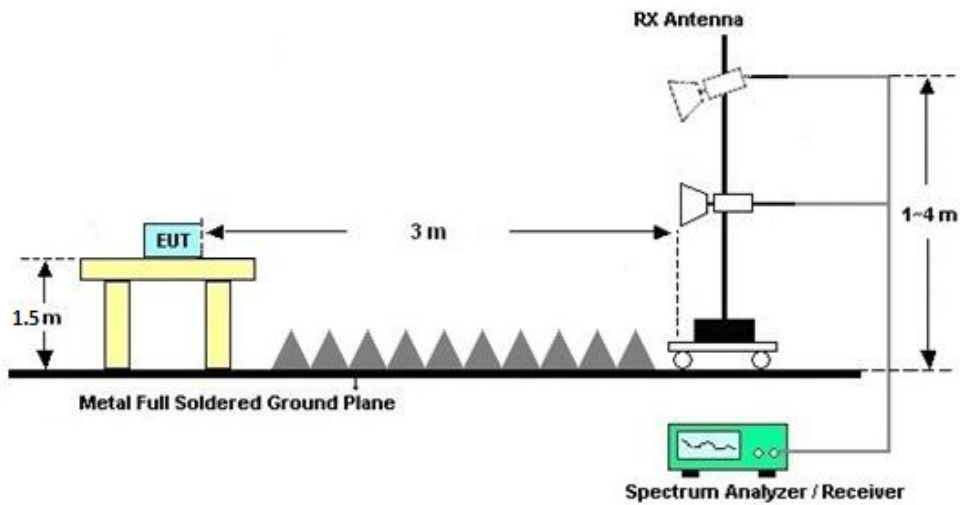
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### **3.4.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix C.

### **3.4.7 Duty Cycle**

Please refer to Appendix D.

### **3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)**

Please refer to Appendix C.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

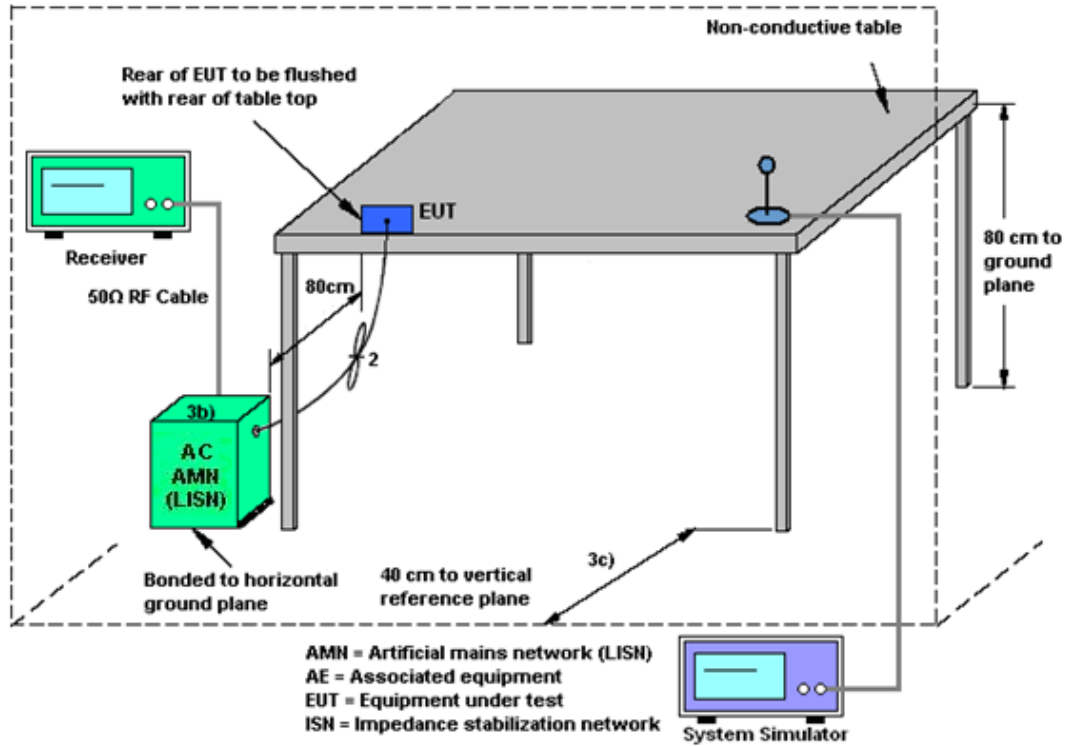
#### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit 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.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.6.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Apr. 26, 2024~ Jul. 04, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Apr. 26, 2024~ Jul. 04, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Apr. 26, 2024~ Jul. 04, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 09, 2024	Jun. 21, 2024~ Jul. 04, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 09, 2024	Jun. 21, 2024~ Jul. 04, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jun. 21, 2024~ Jul. 04, 2024	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Aug. 20, 2023	Jun. 21, 2024~ Jul. 04, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 09, 2024	Jun. 21, 2024~ Jul. 04, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Jun. 21, 2024~ Jul. 04, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 18, 2023	Jun. 21, 2024~ Jul. 04, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jun. 21, 2024~ Jul. 04, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 27, 2023	Jun. 21, 2024~ Jul. 04, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jun. 21, 2024~ Jul. 04, 2024	Jul. 06, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024		Jul. 02, 2025	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2023	Jun. 21, 2024~ Jul. 04, 2024	Oct. 17, 2024	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 21, 2024~ Jul. 04, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 21, 2024~ Jul. 04, 2024	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required





## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04ppm

### Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
---	---------

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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----- THE END -----



## Appendix A. Conducted Test Results



Ambient Condition: 25 °C, 45 %RH

Test Date: 2024.4.26~2024.7.4

Test Engineer: Jiang Jun

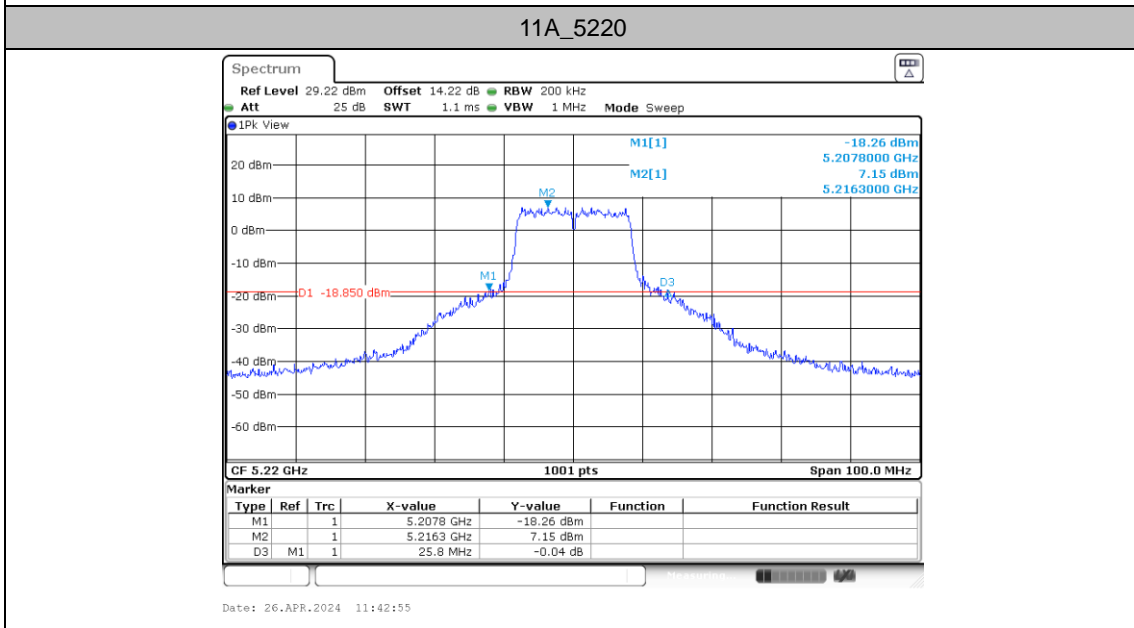
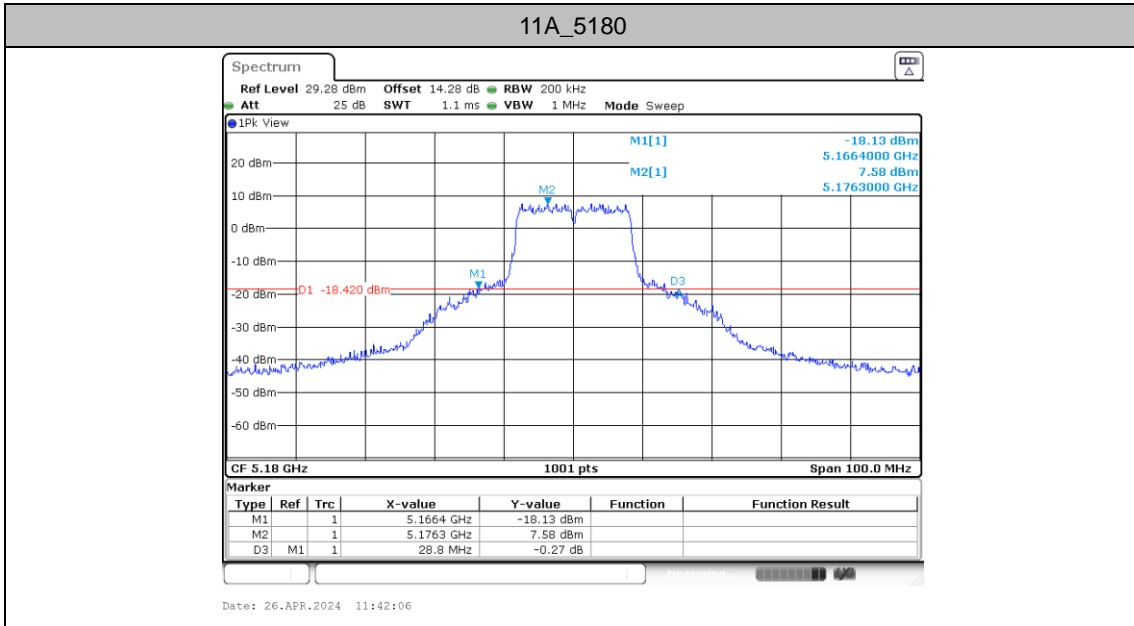
### Emission Bandwidth

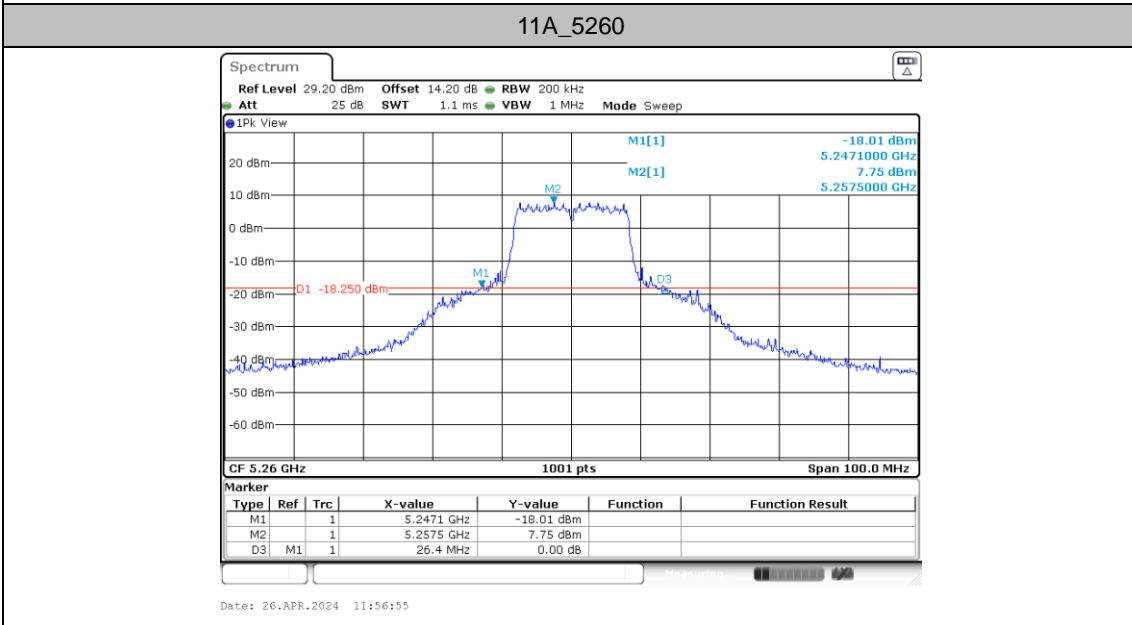
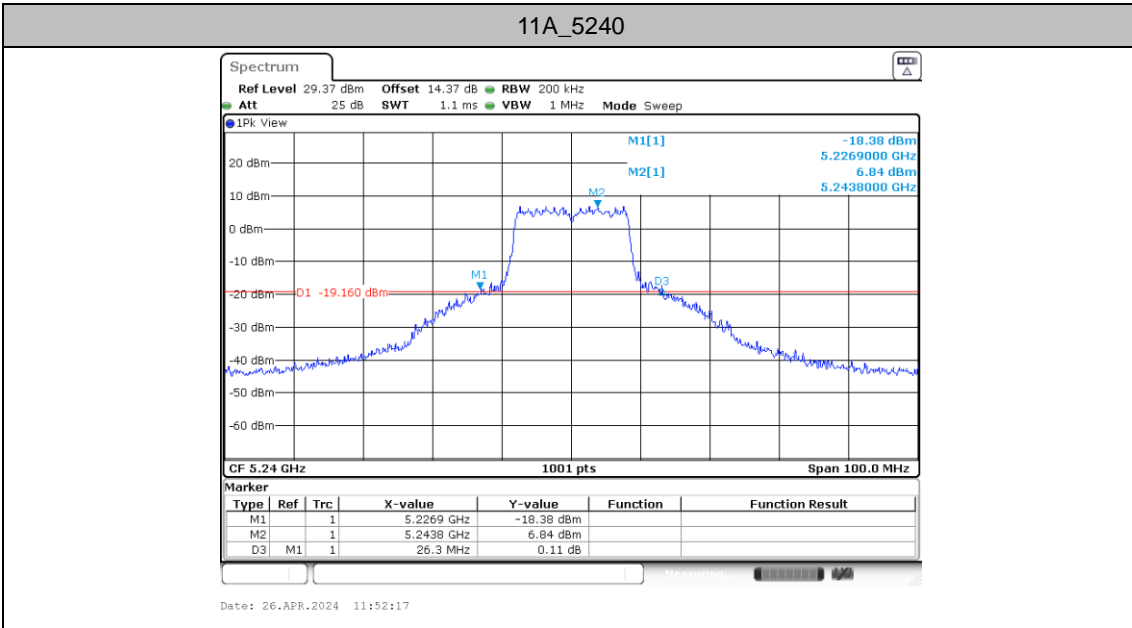
#### Test Result

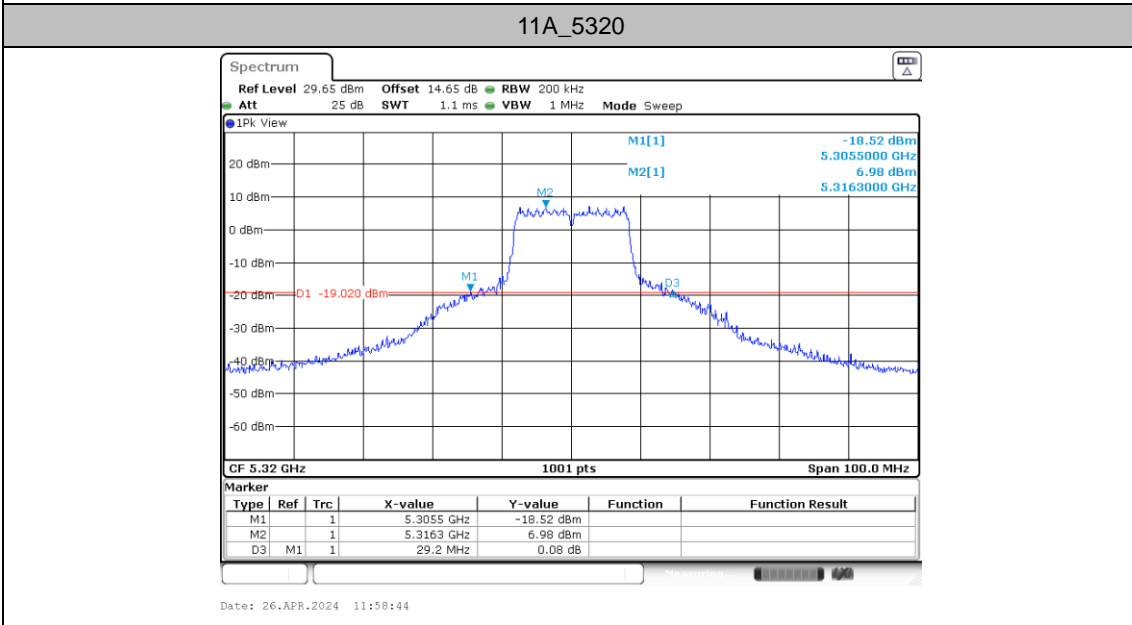
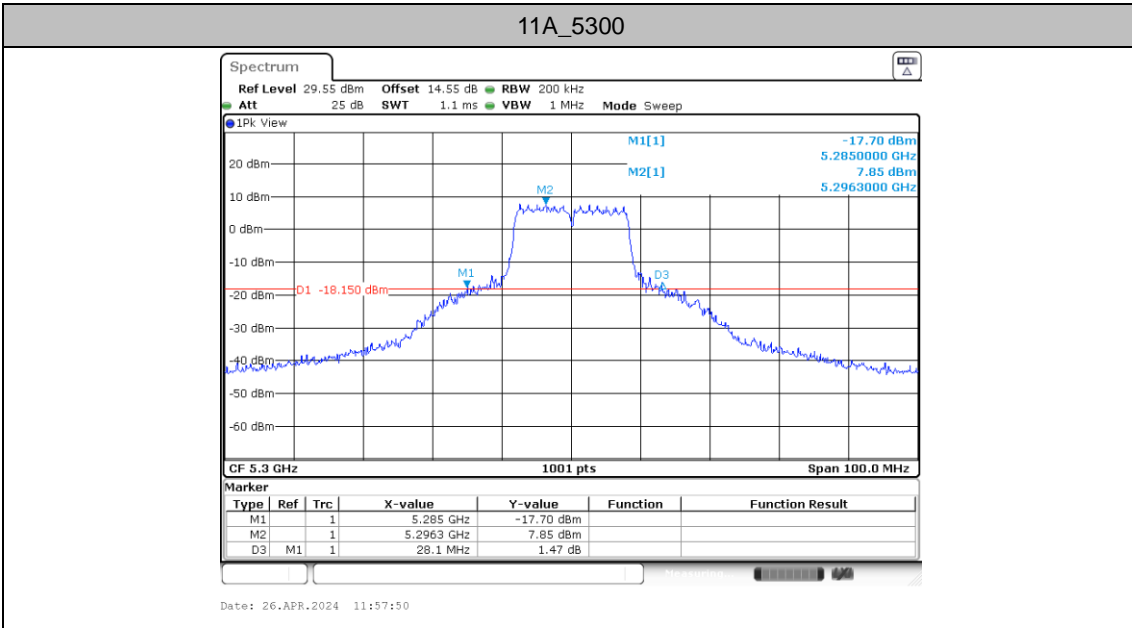
TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant6	5180	28.80	5166.40	5195.20
		5220	25.80	5207.80	5233.60
		5240	26.30	5226.90	5253.20
		5260	26.40	5247.10	5273.50
		5300	28.10	5285.00	5313.10
		5320	29.20	5305.50	5334.70
		5500	32.10	5484.30	5516.40
		5580	29.60	5566.80	5596.40
		5680	29.50	5665.00	5694.50
		5700	29.50	5686.80	5716.30
		5720	27.50	5705.80	5733.30
		5745	29.40	5730.60	5760.00
		5785	32.10	5770.00	5802.10
		5825	31.10	5810.50	5841.60
11AC20SISO	Ant6	5180	30.20	5166.00	5196.20
		5220	26.70	5206.60	5233.30
		5240	29.00	5226.30	5255.30
		5260	29.10	5245.00	5274.10
		5300	29.20	5285.10	5314.30
		5320	32.60	5305.10	5337.70
		5500	32.30	5485.30	5517.60
		5580	31.10	5565.00	5596.10
		5680	29.80	5666.30	5696.10
		5700	30.30	5685.10	5715.40
		5720	29.70	5705.60	5735.30
		5745	31.40	5729.10	5760.50
		5785	31.70	5770.00	5801.70
		5825	30.20	5810.50	5840.70
11AC40SISO	Ant6	5190	46.00	5169.60	5215.60
		5230	45.80	5210.20	5256.00
		5270	47.40	5247.40	5294.80
		5310	47.20	5288.80	5336.00
		5510	46.20	5488.00	5534.20
		5550	46.60	5529.00	5575.60
		5670	46.00	5644.80	5690.80
		5710	50.00	5685.20	5735.20
		5755	47.40	5730.60	5778.00
		5795	49.10	5771.10	5820.20
11AC80SISO	Ant6	5210	87.60	5169.20	5256.80
		5290	88.40	5248.80	5337.20
		5530	84.40	5488.40	5572.80
		5610	90.00	5562.80	5652.80
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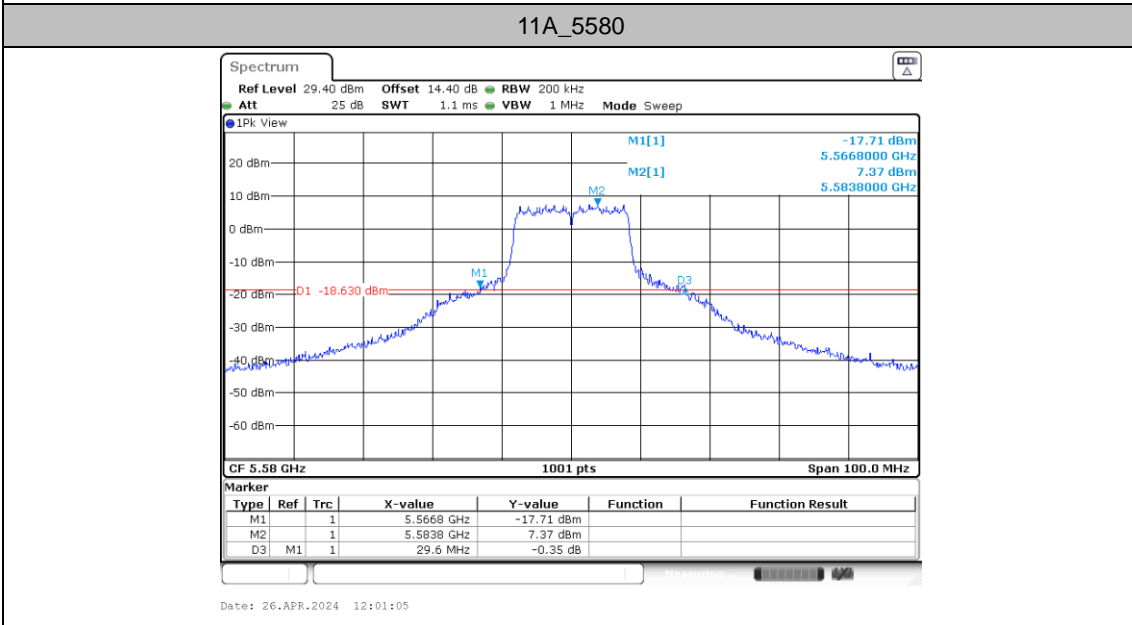
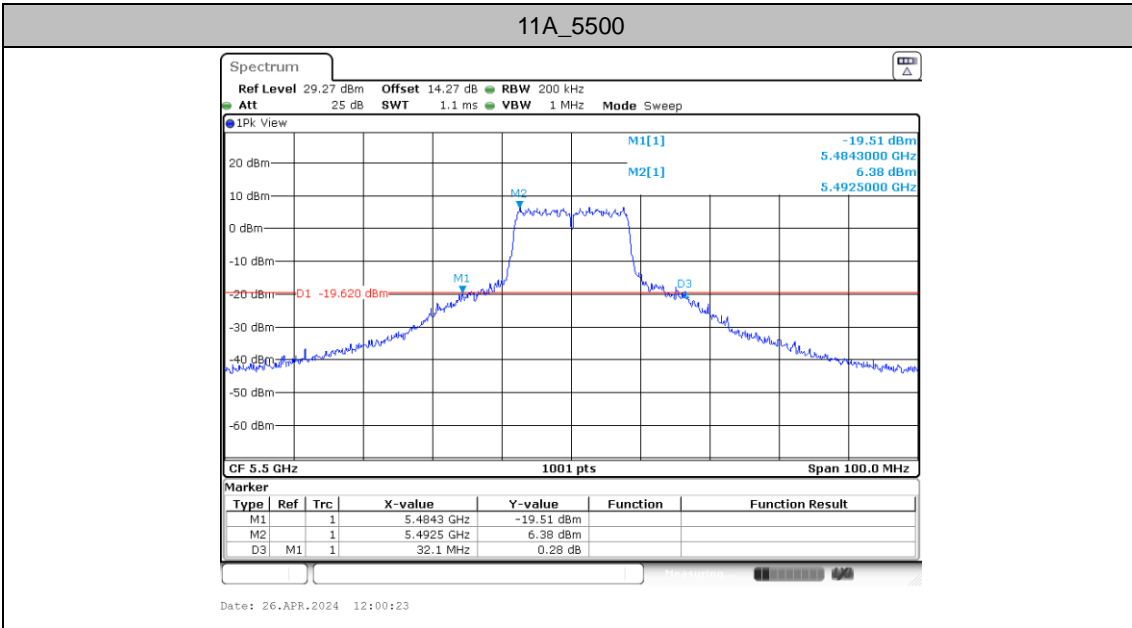


Test Graphs



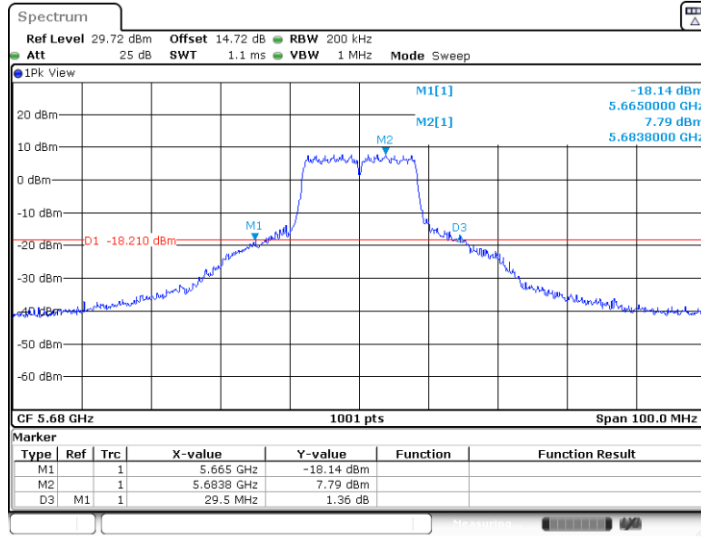




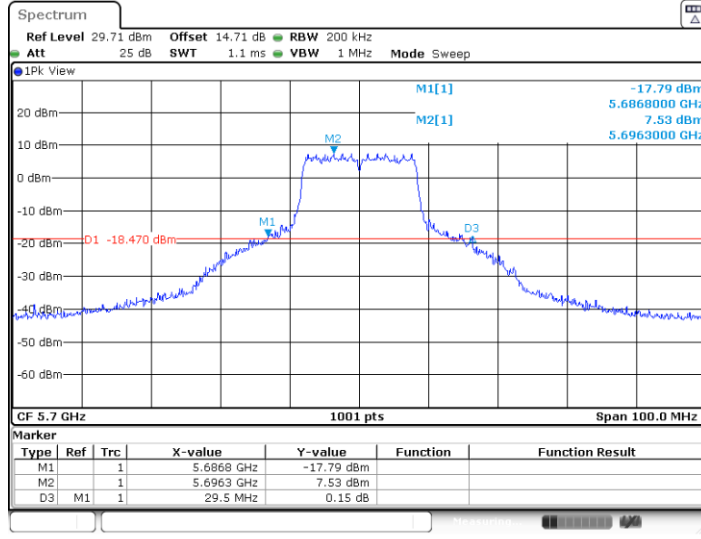




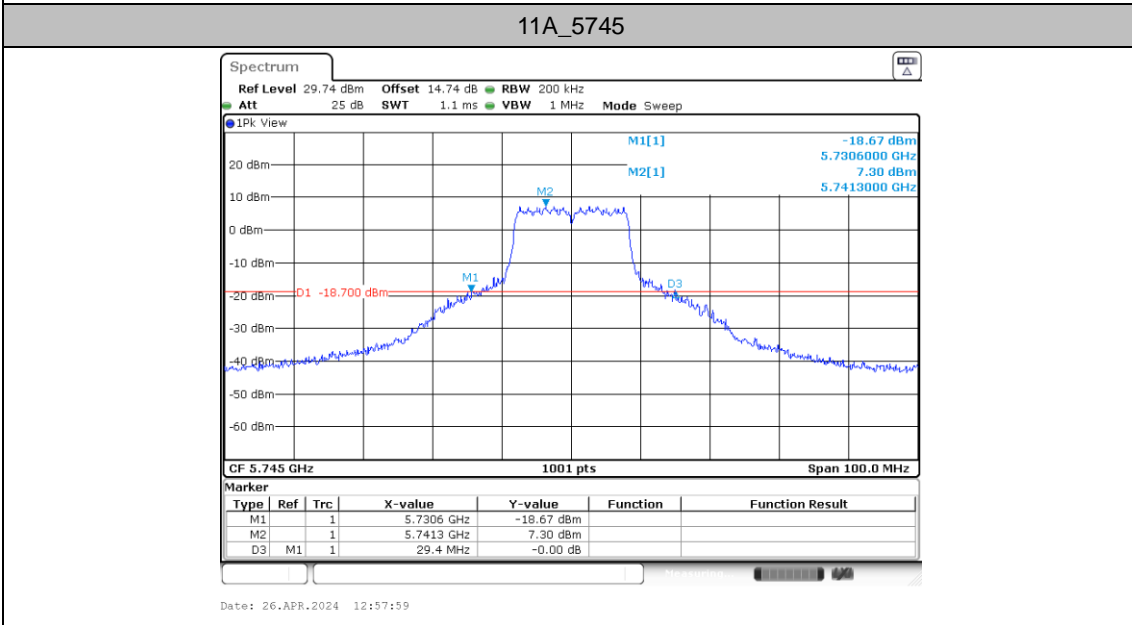
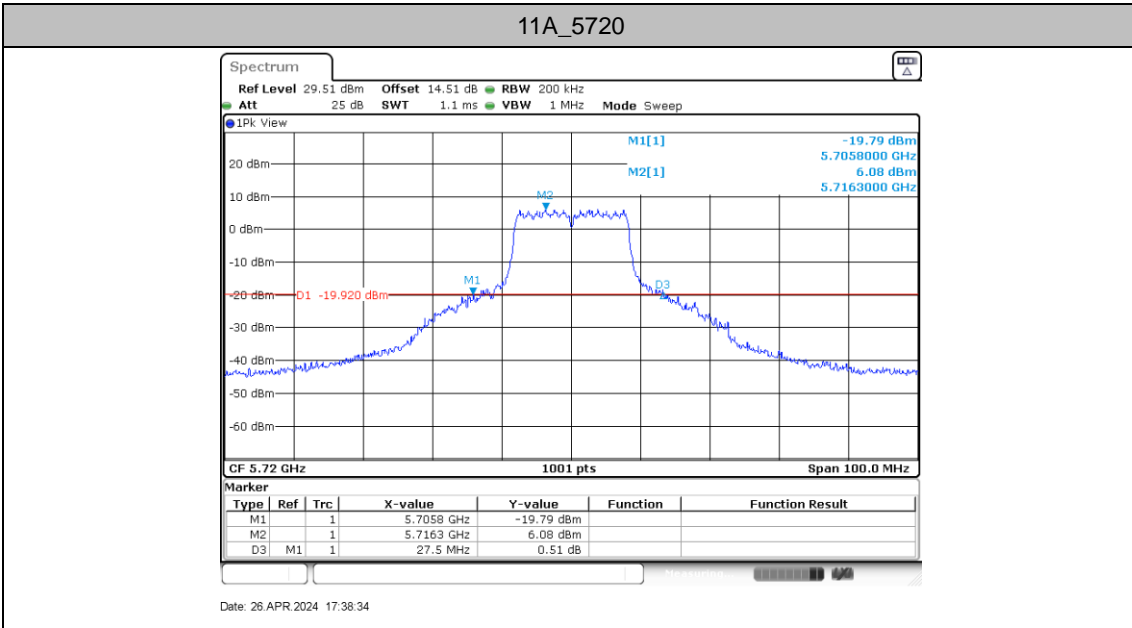
11A\_5680

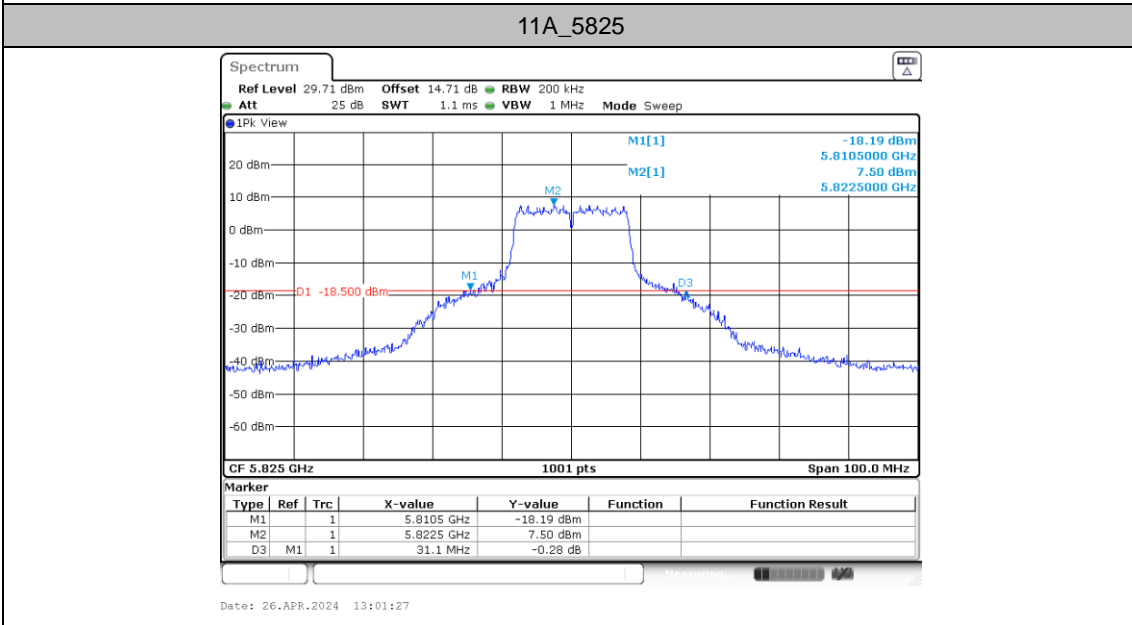
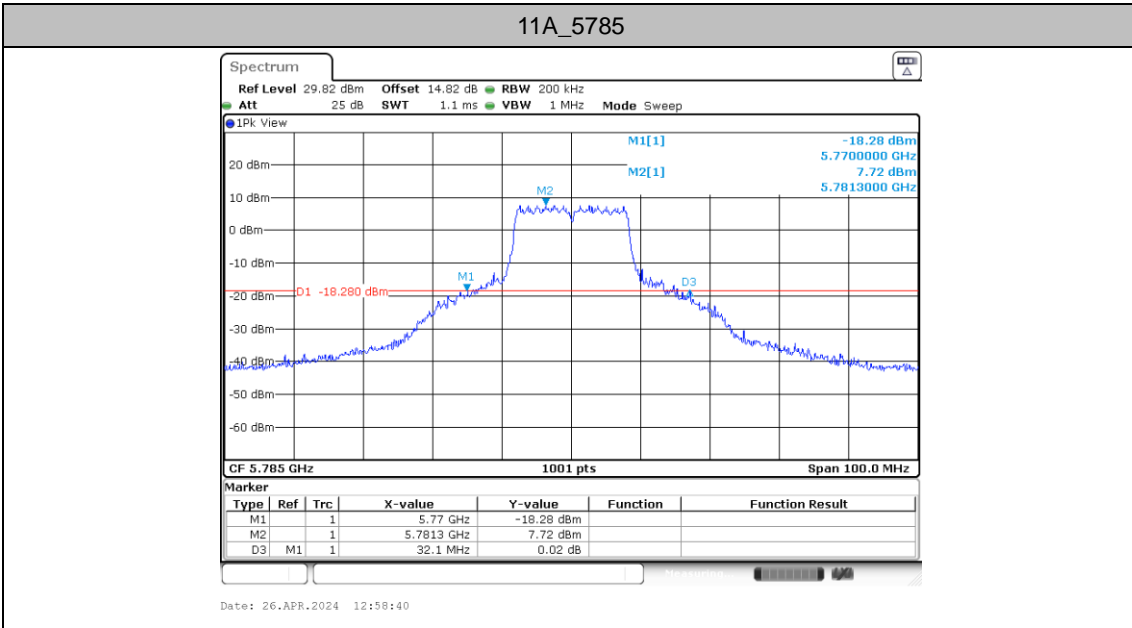


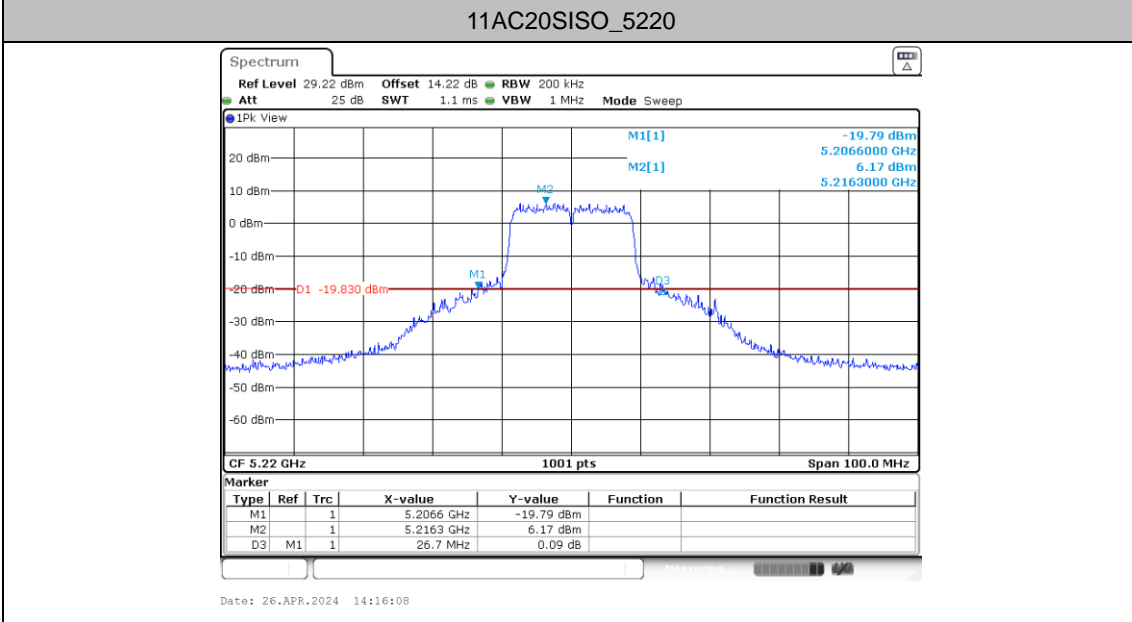
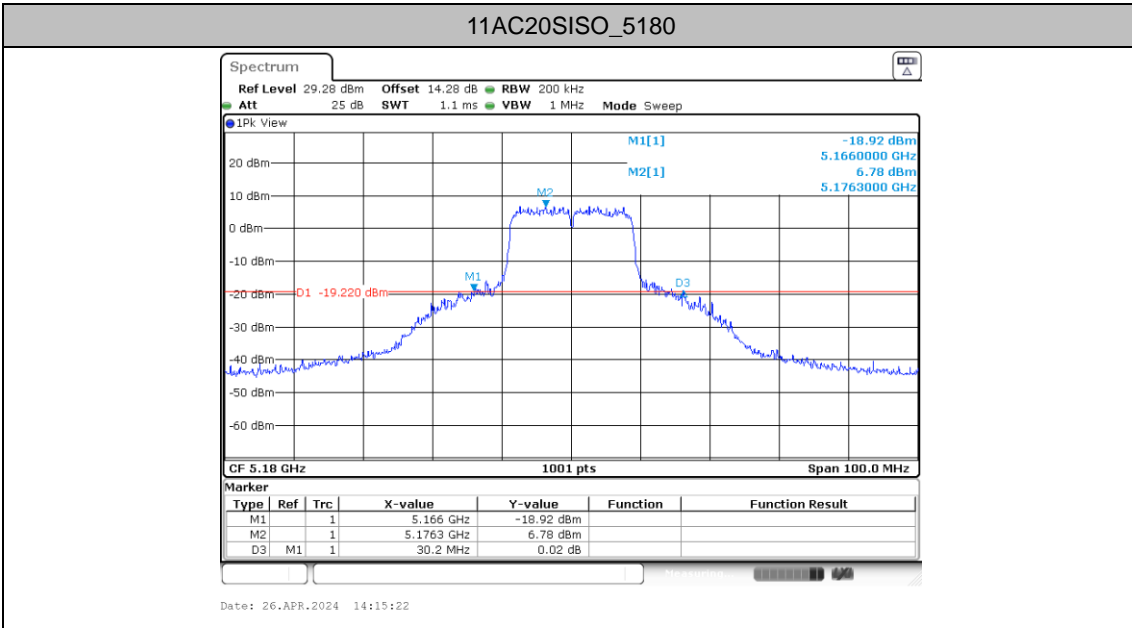
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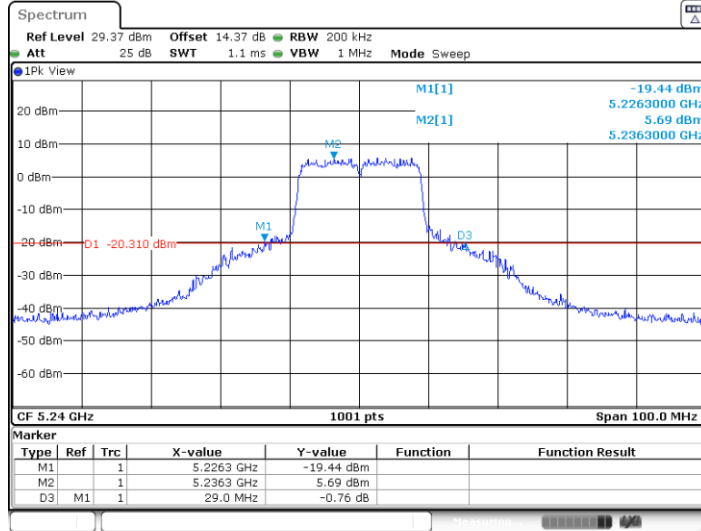




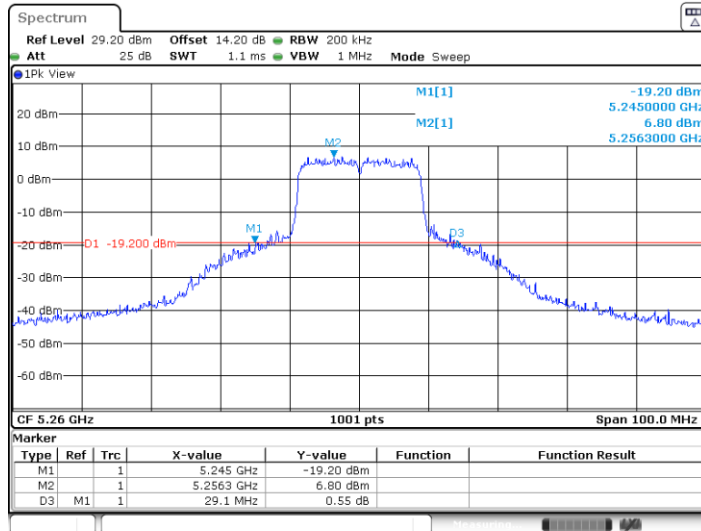


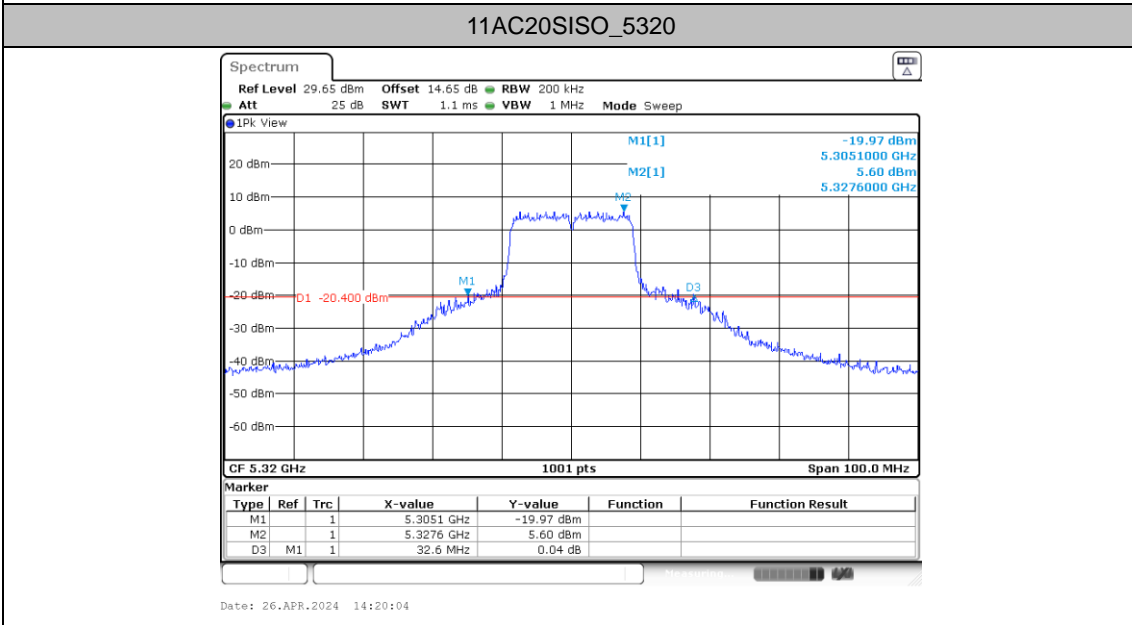
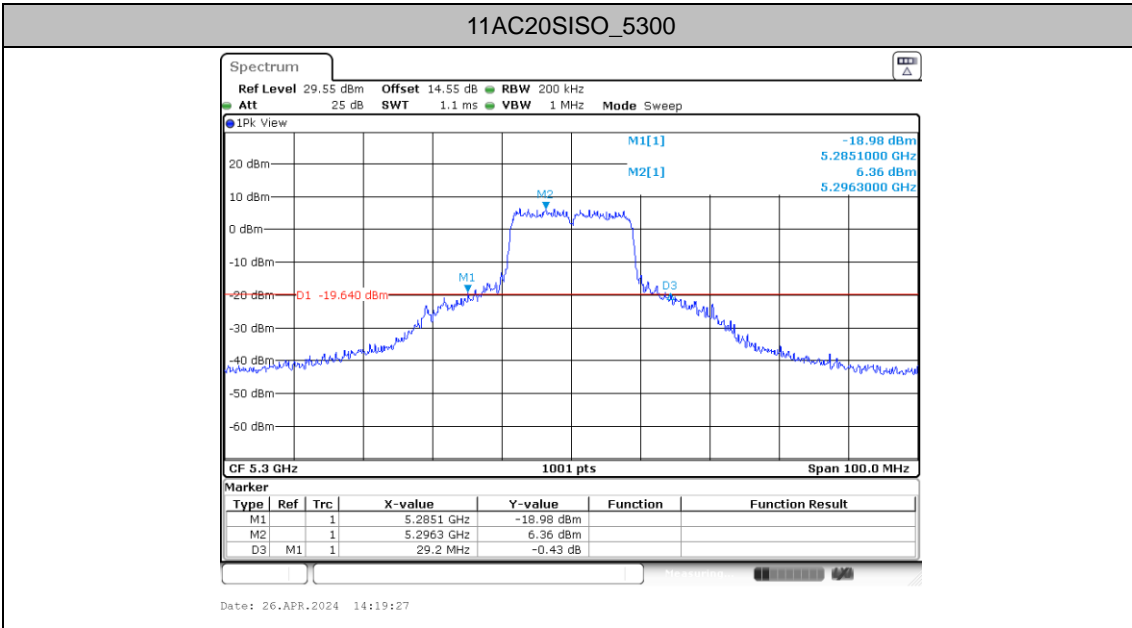


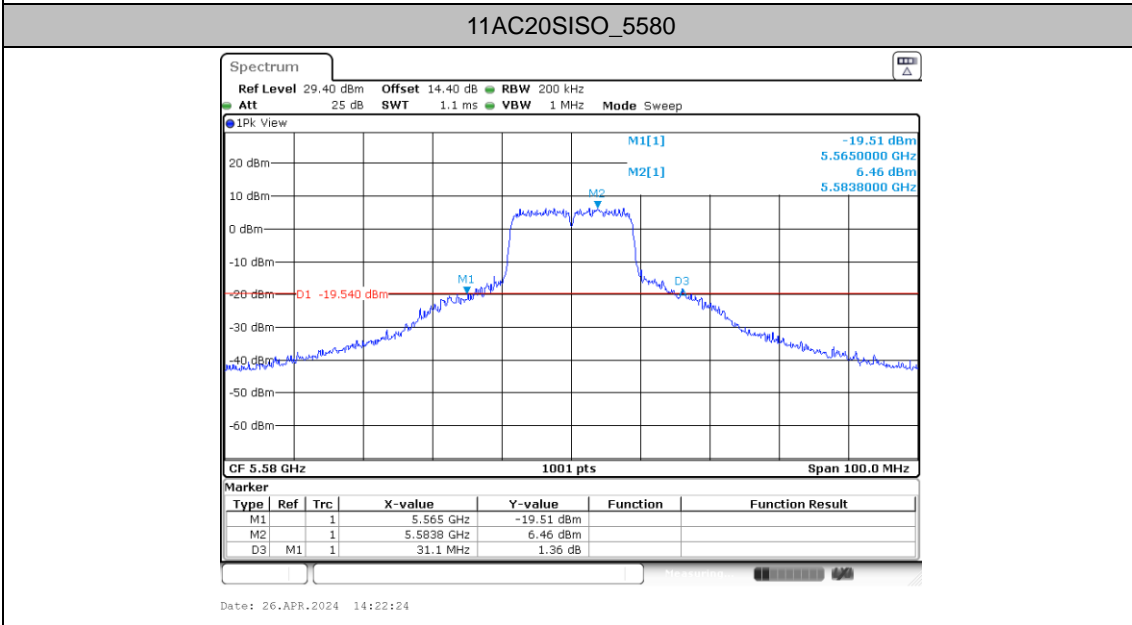
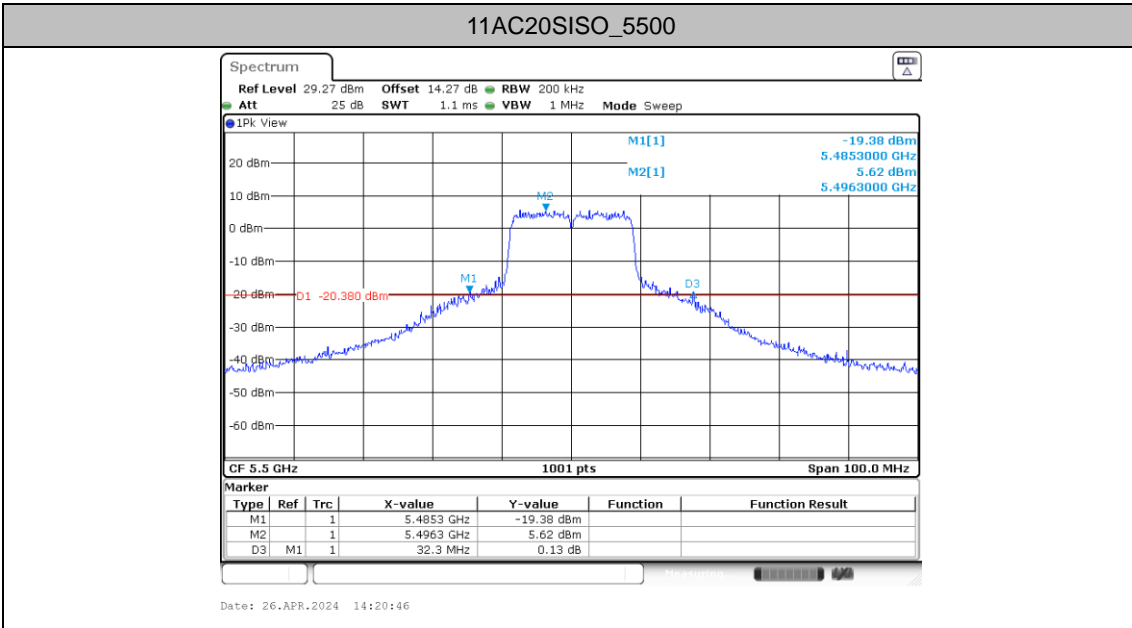
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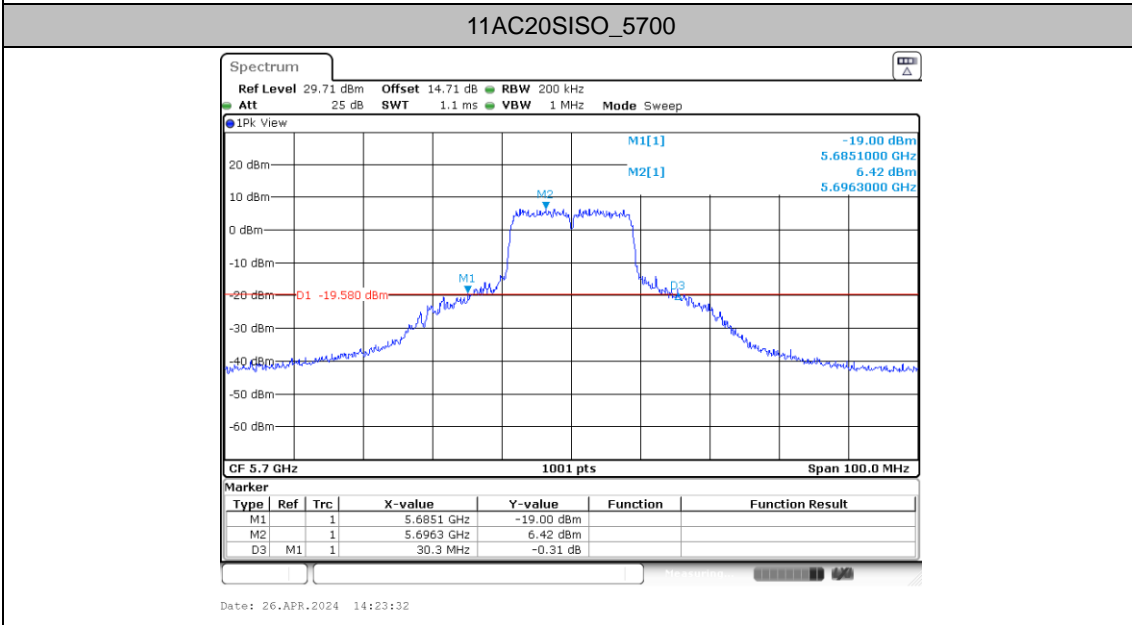
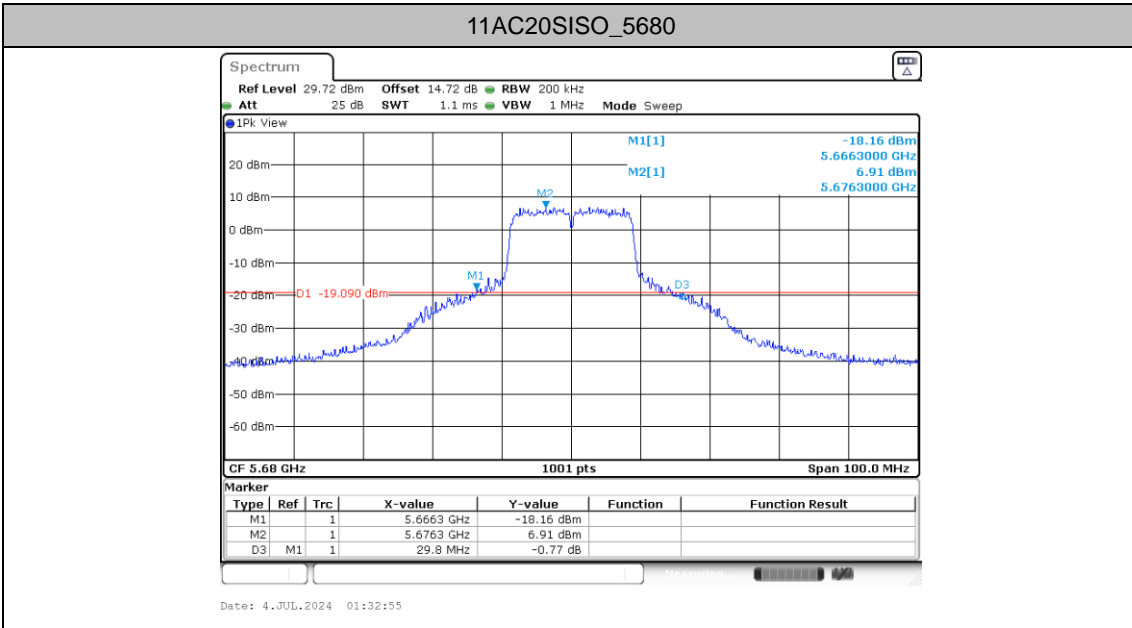


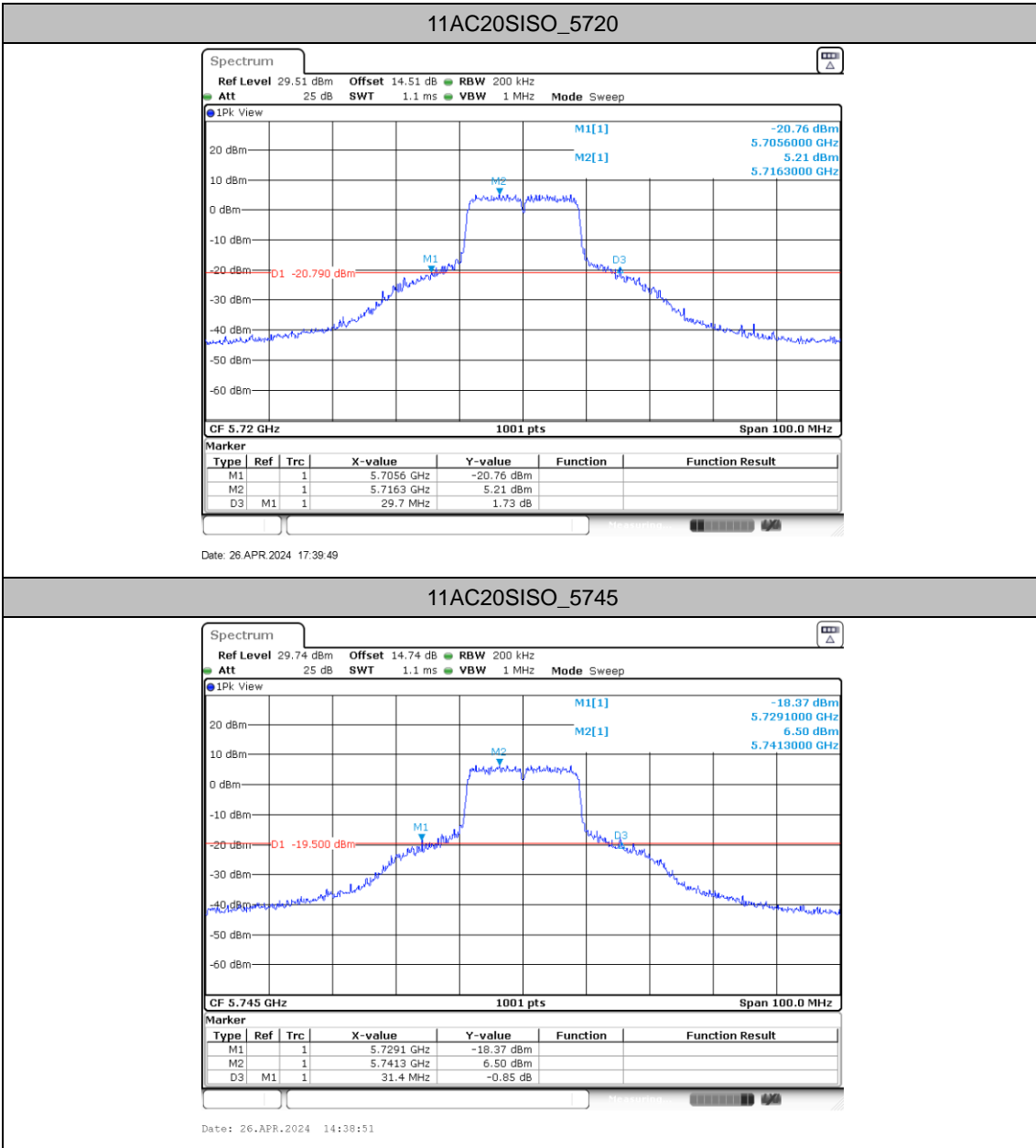
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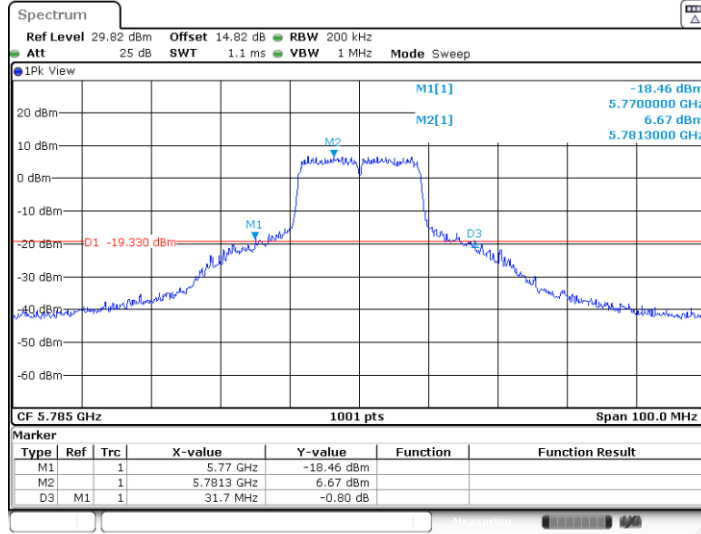




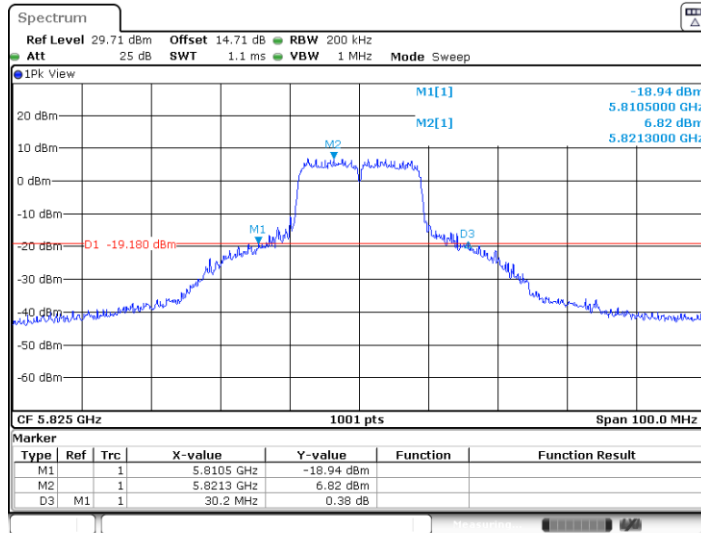


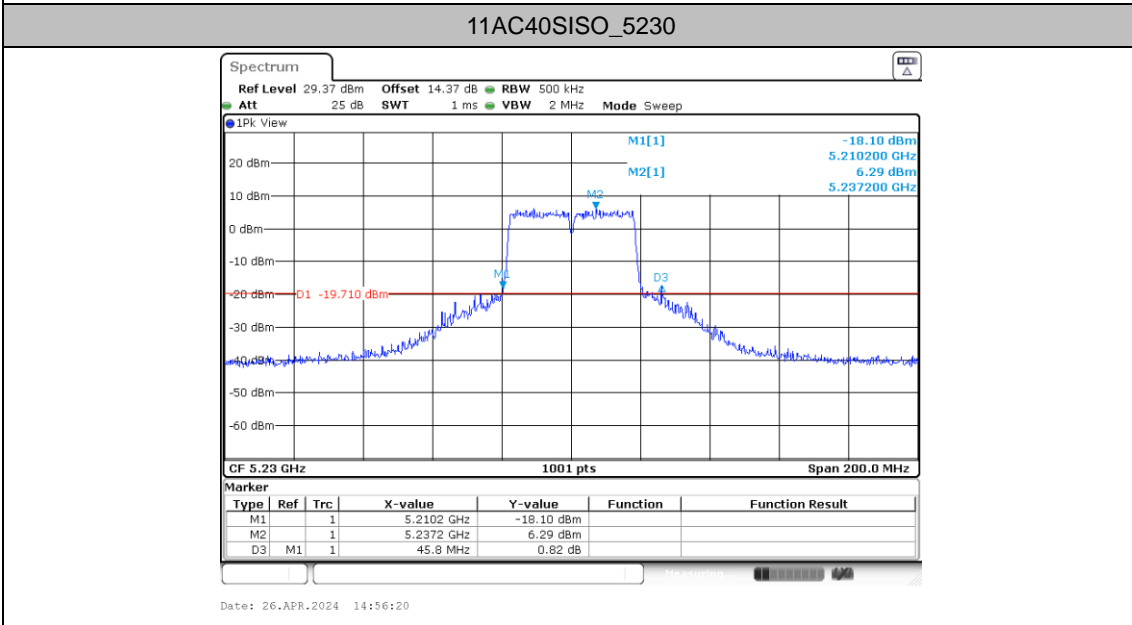
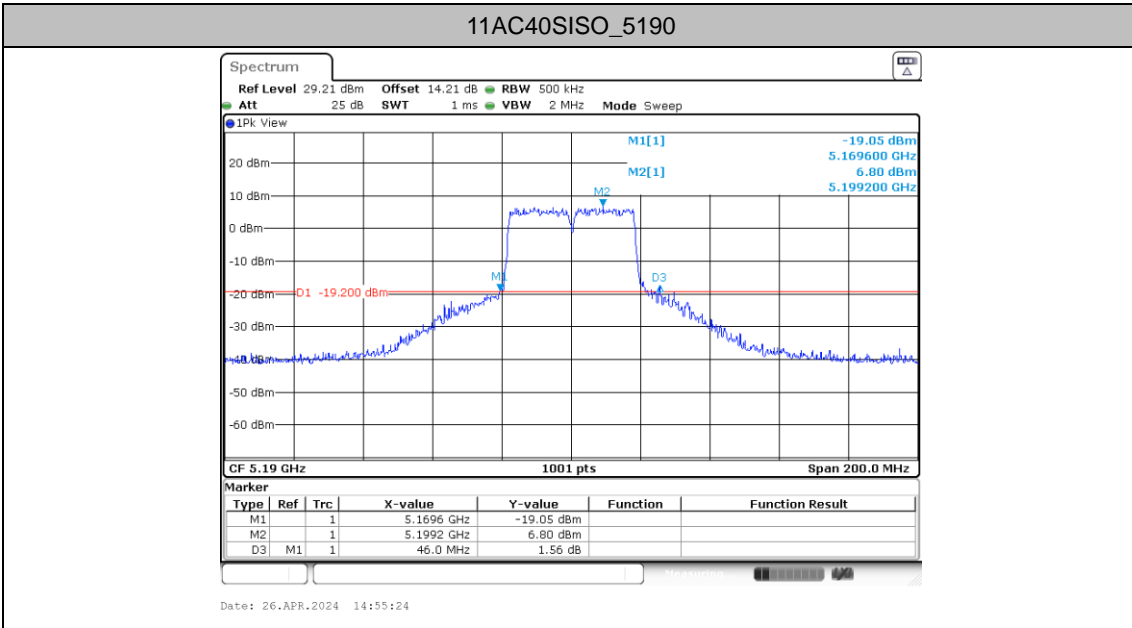


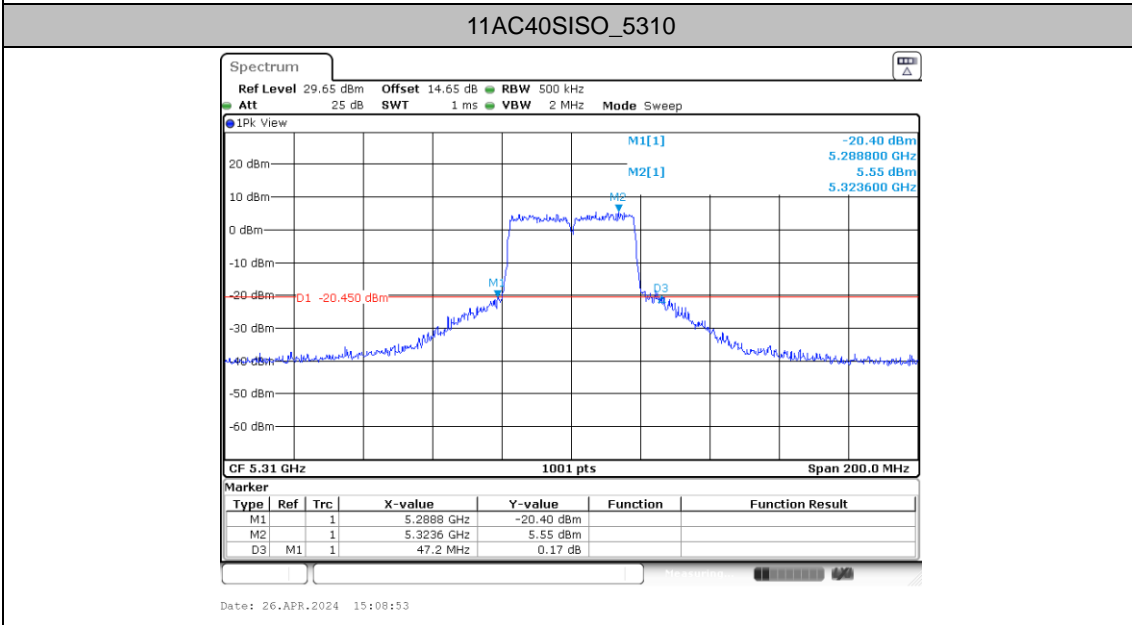
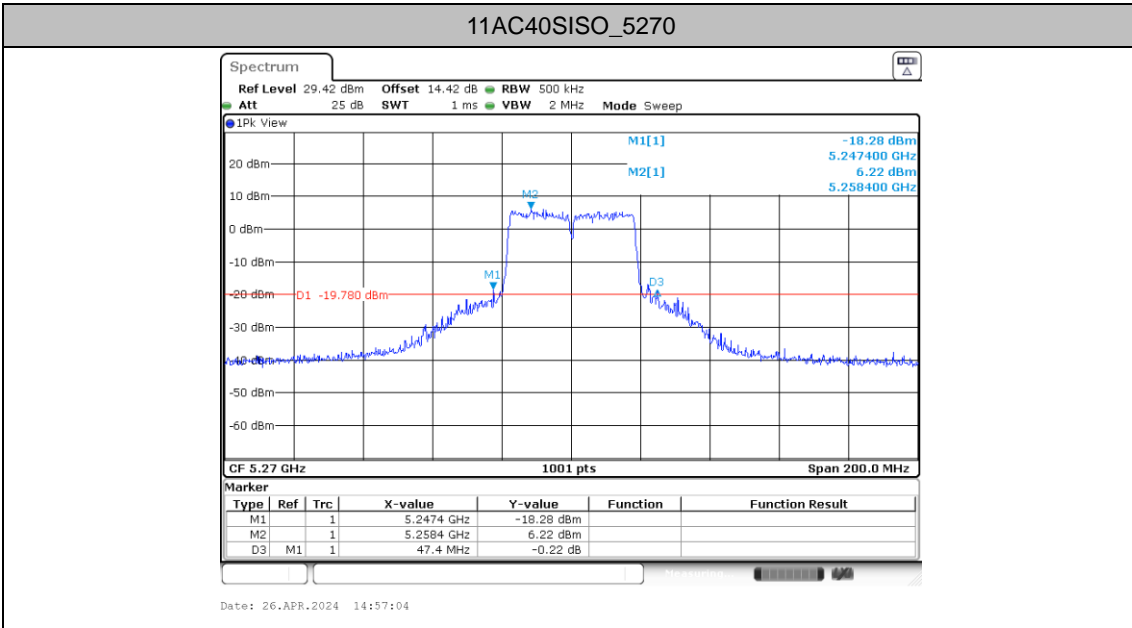
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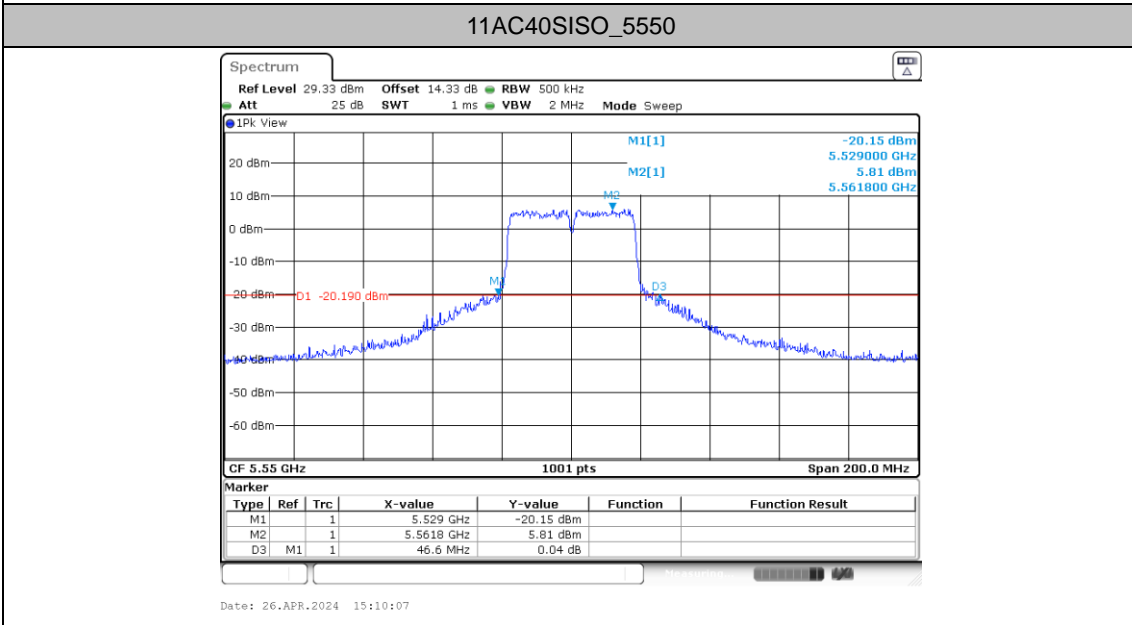
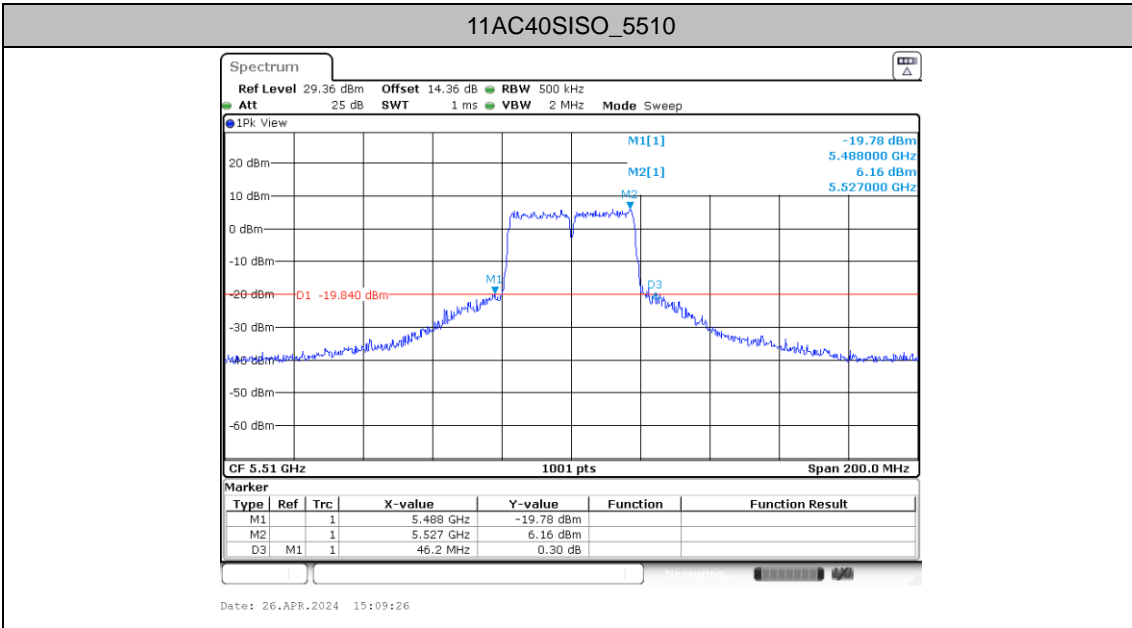


11AC20SISO\_5825



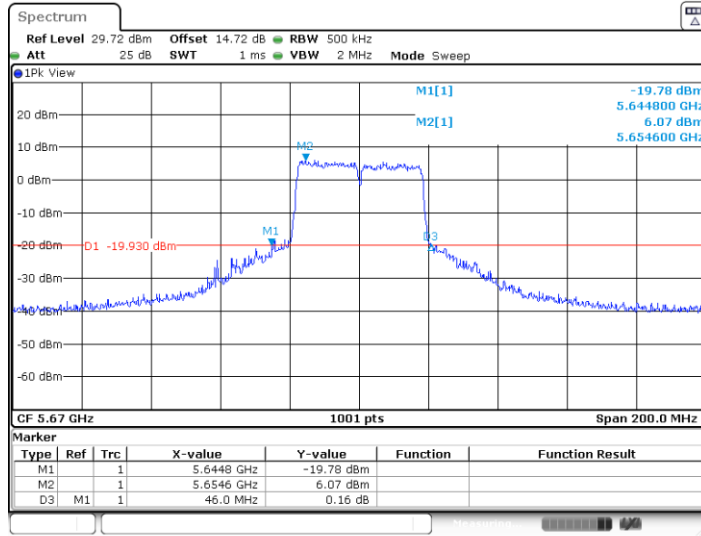






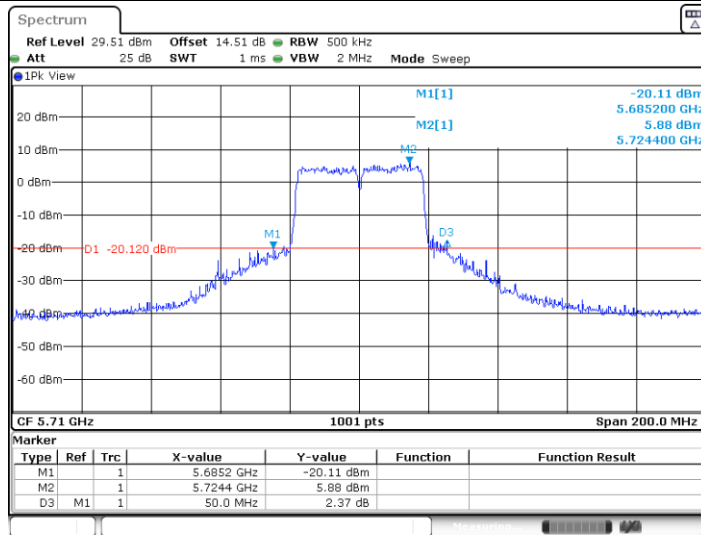


11AC40SISO\_5670



Date: 26.APR.2024 15:13:41

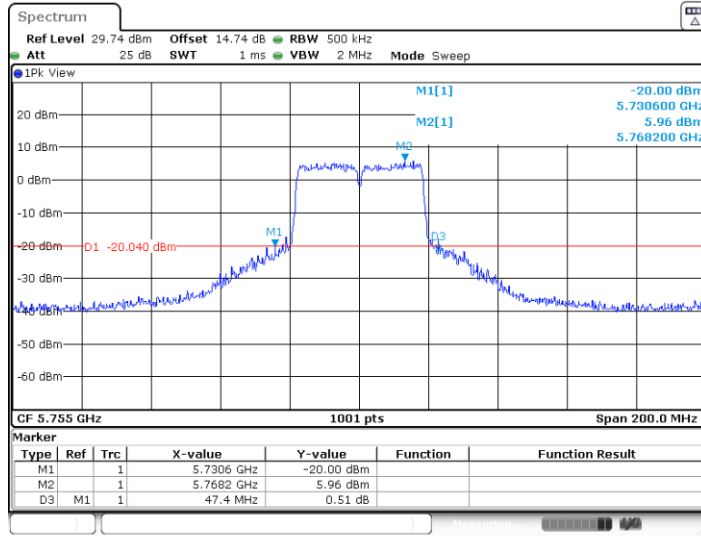
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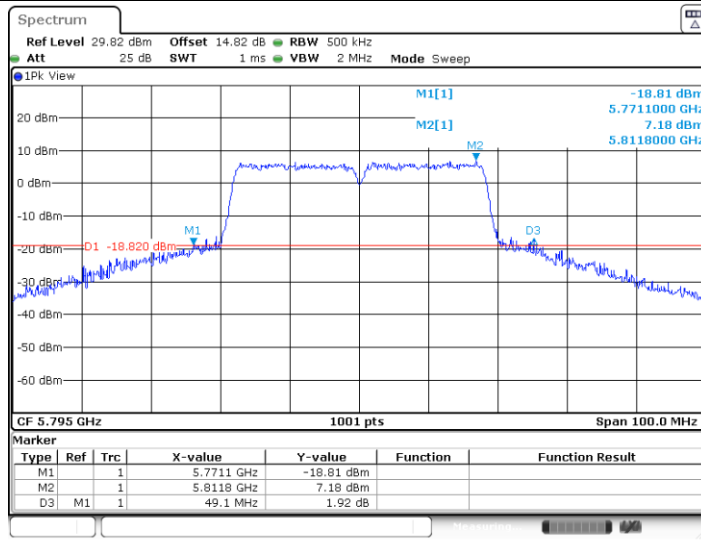
Date: 26 APR 2024 17:40:47

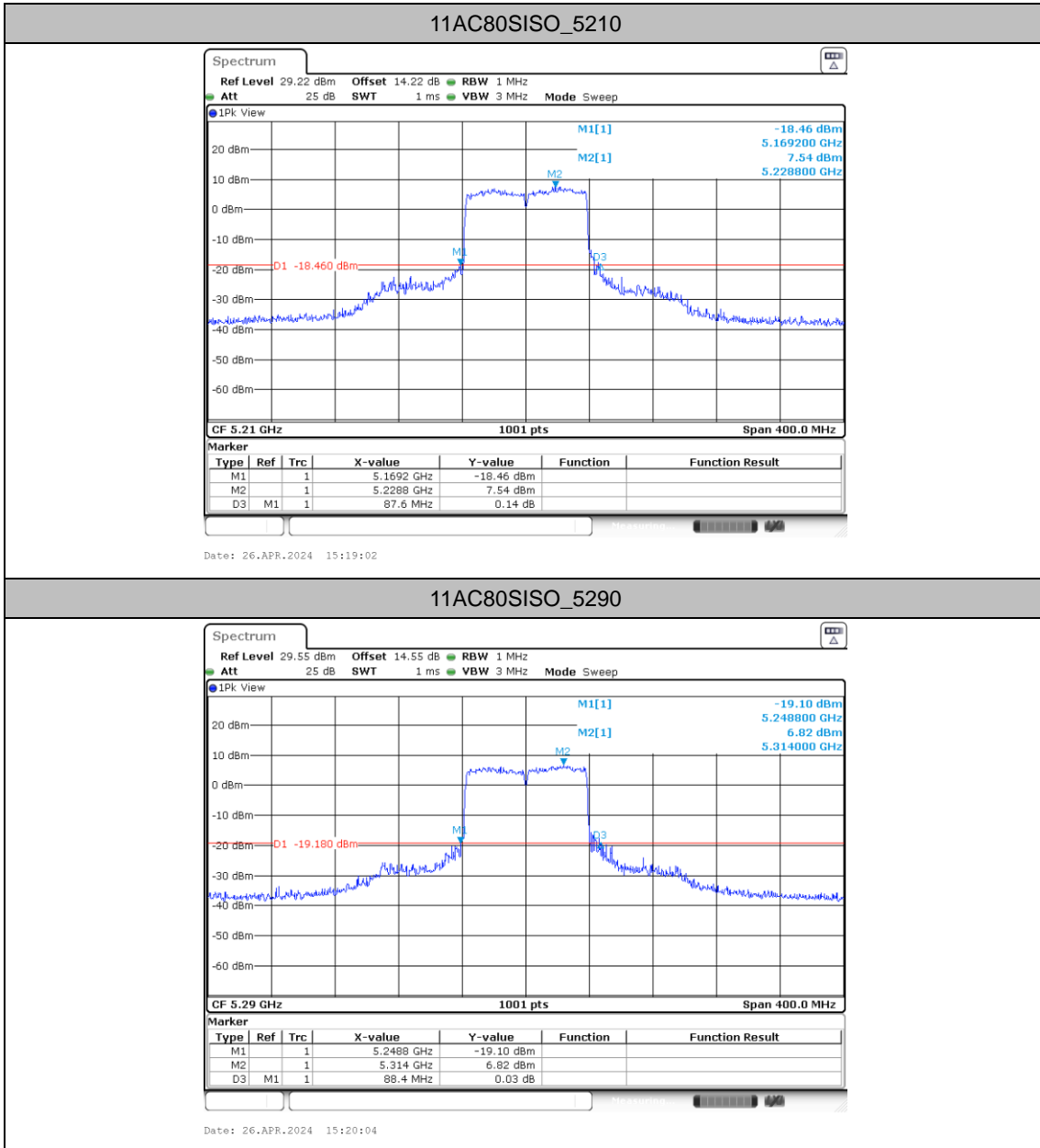


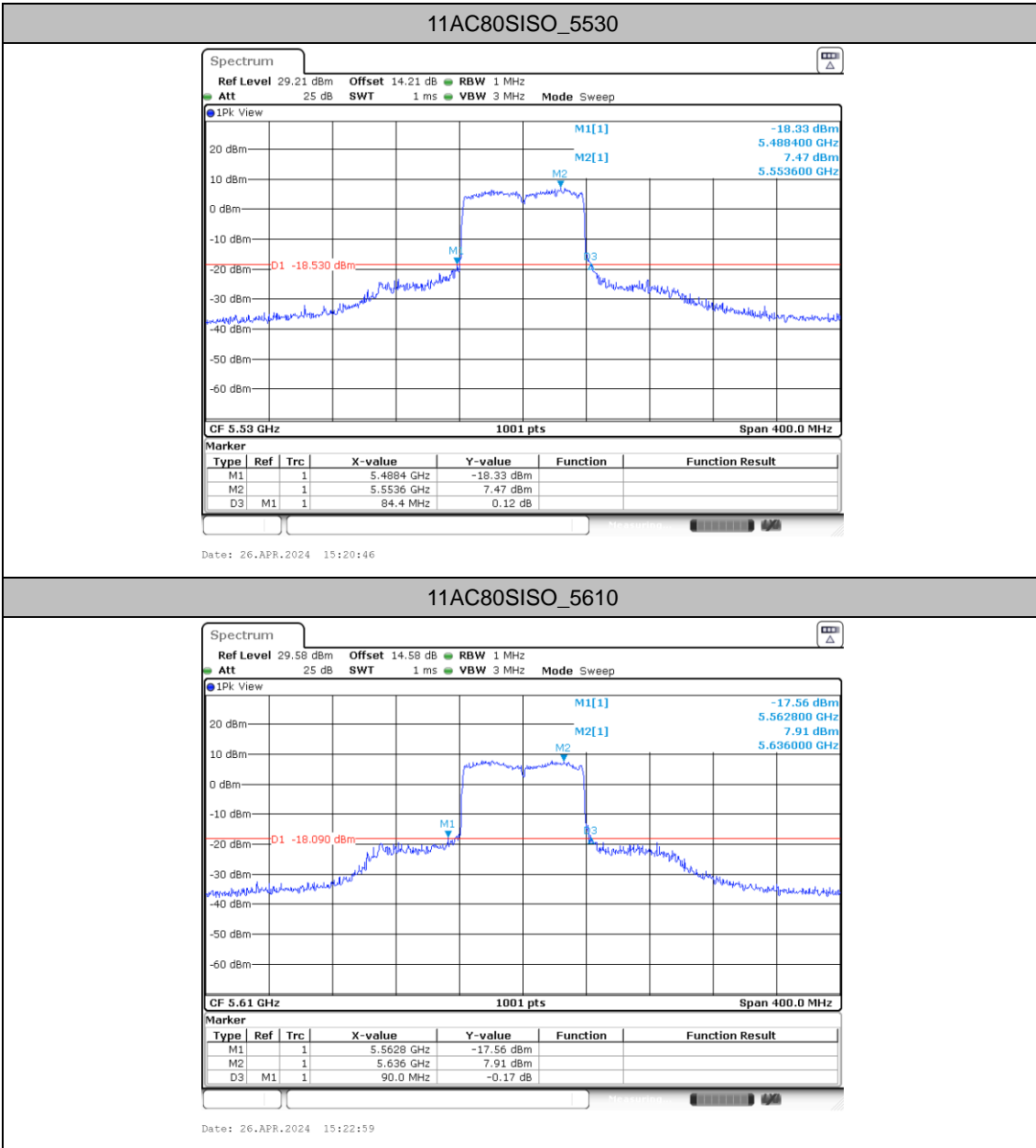
11AC40SISO\_5755



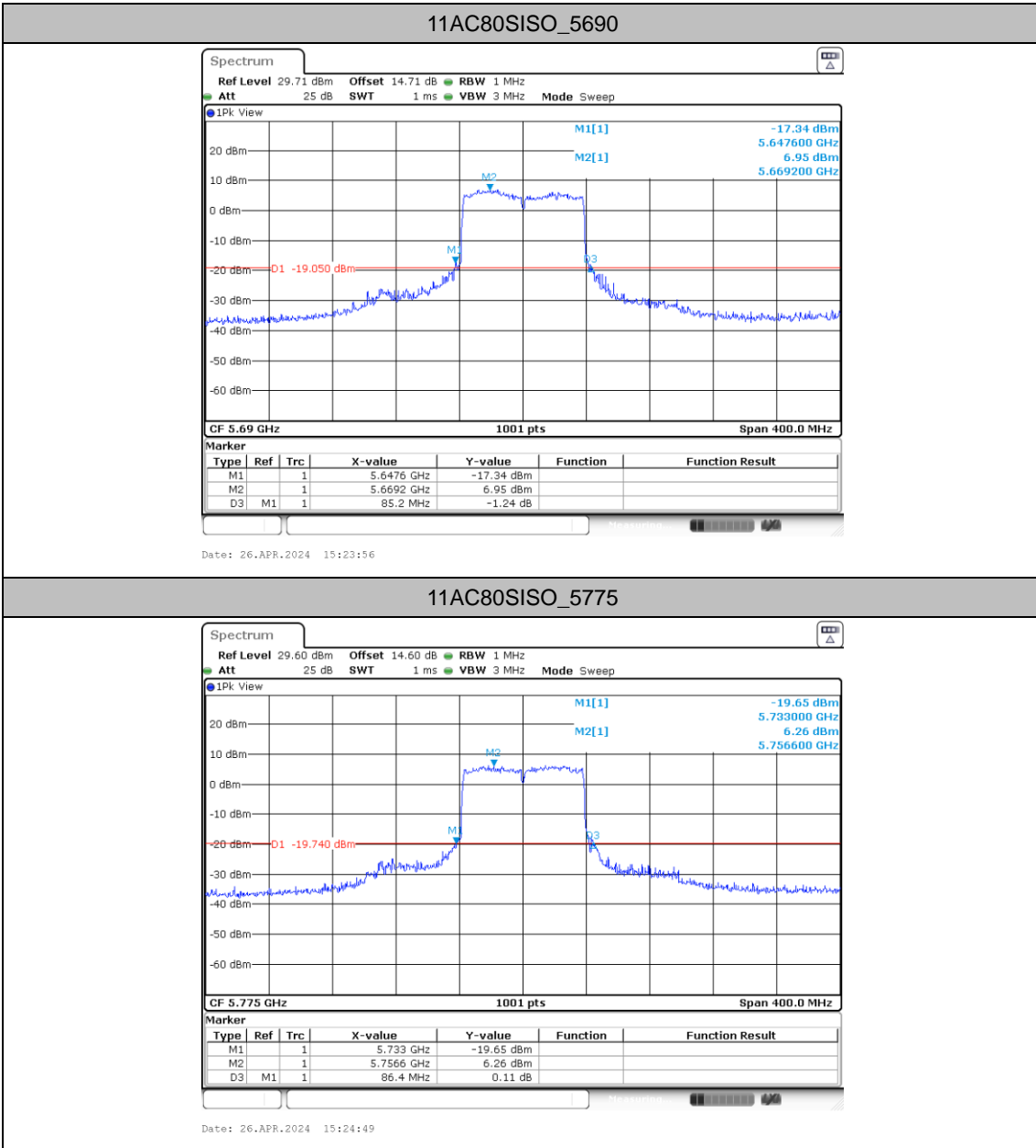
11AC40SISO\_5795













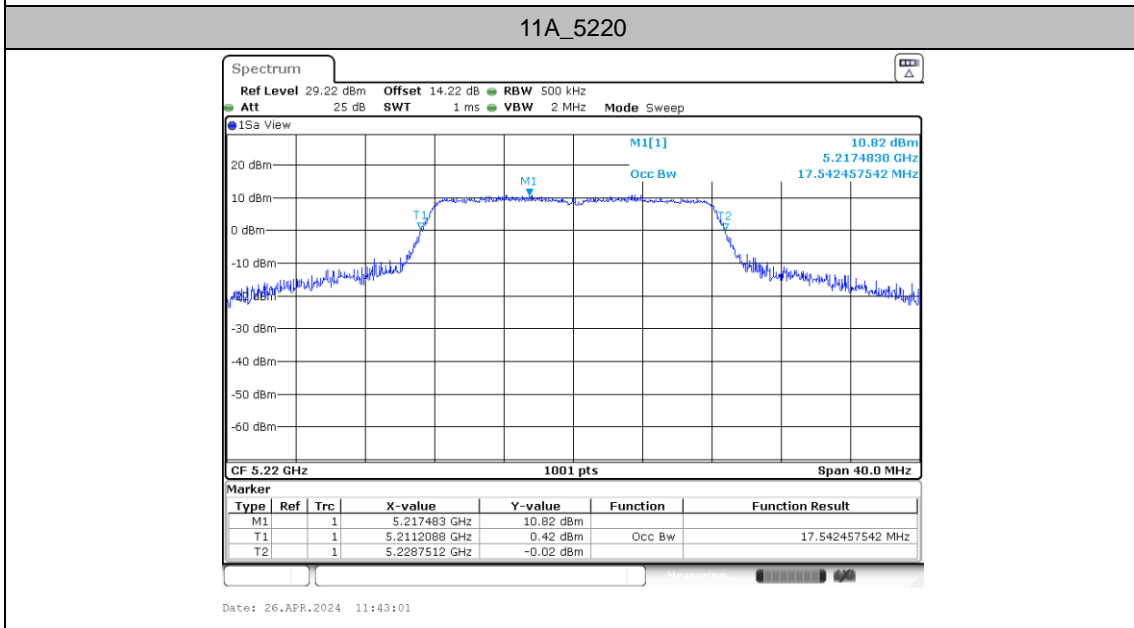
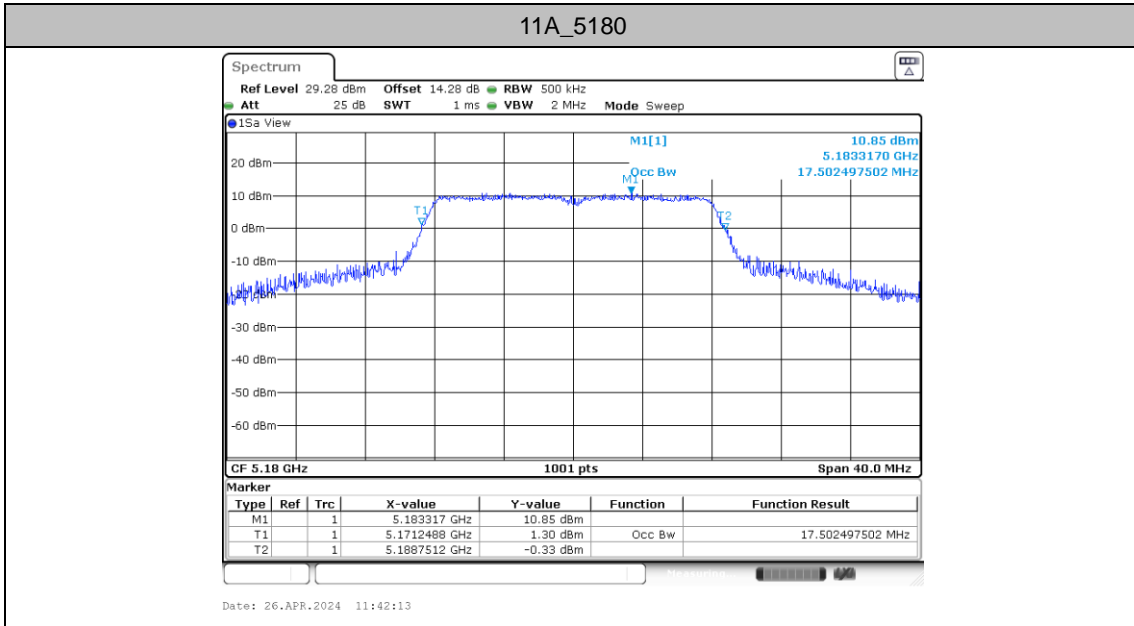
### Occupied channel bandwidth

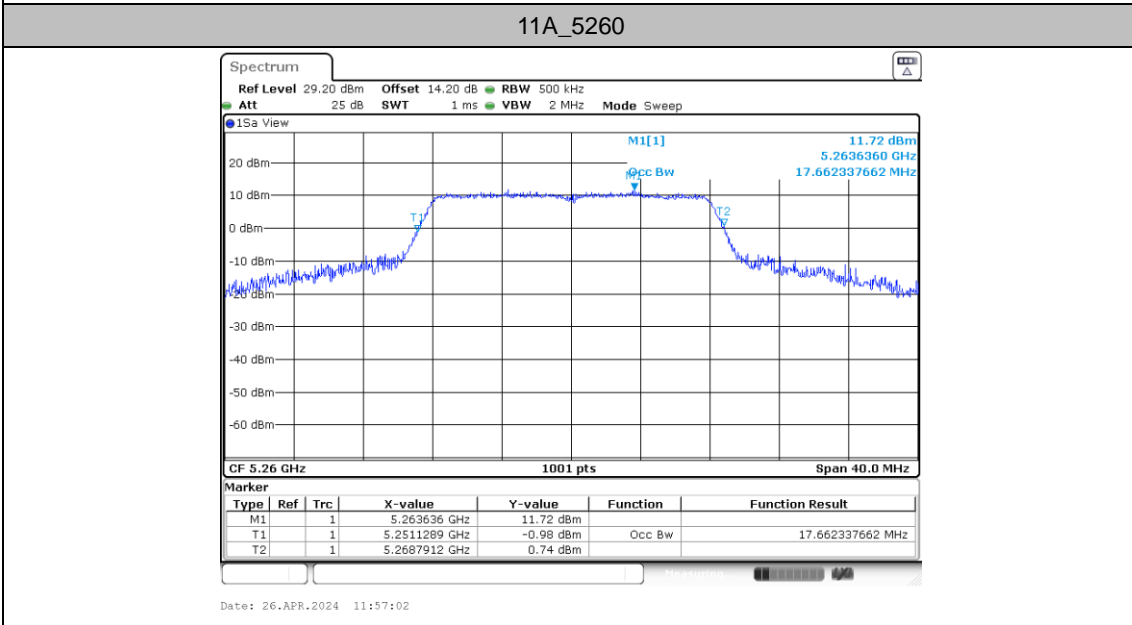
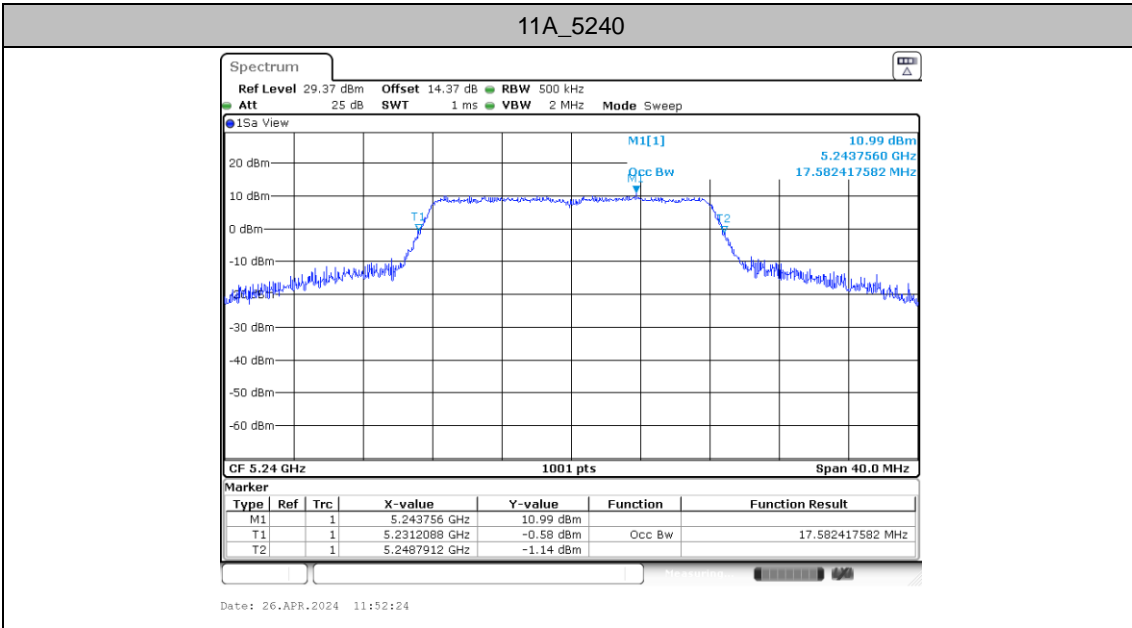
#### Test Result

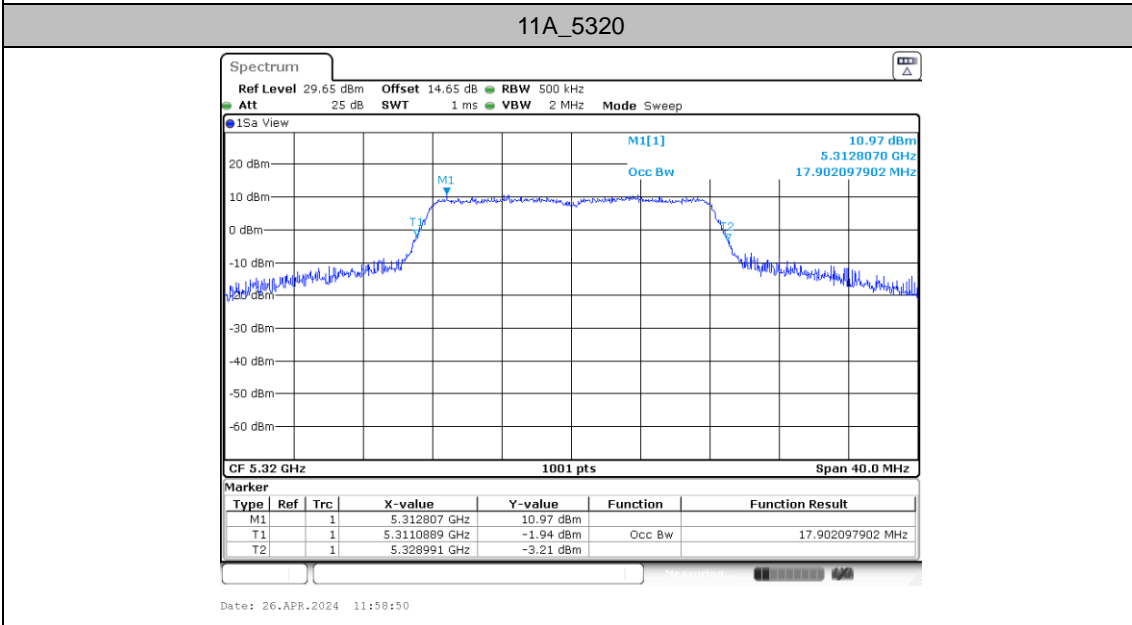
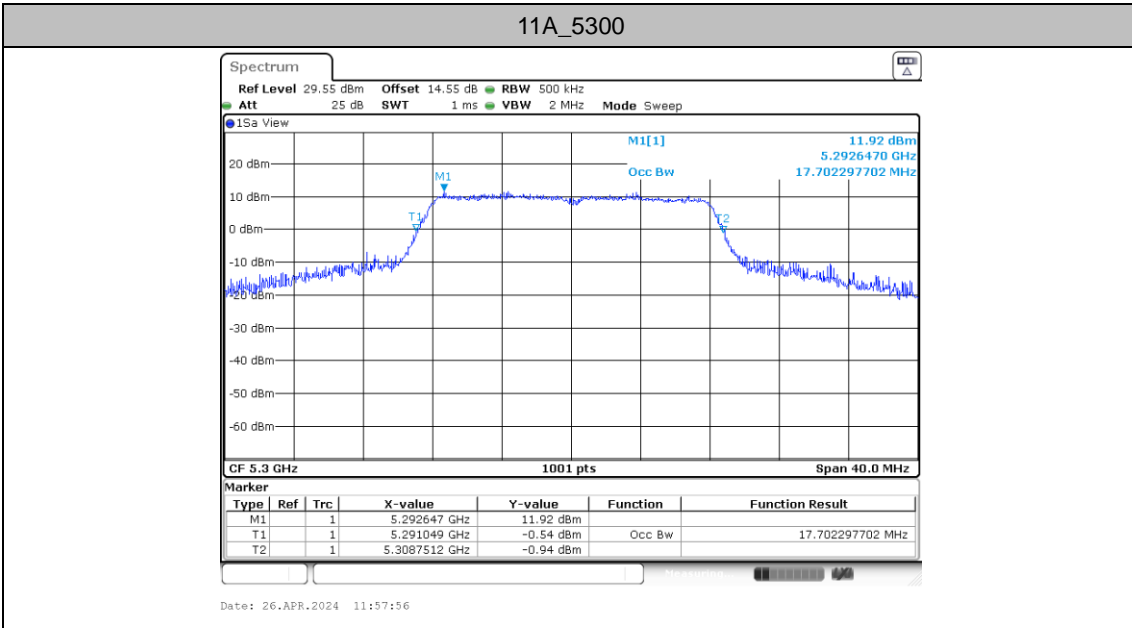
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant6	5180	17.502	5171.2488	5188.7512
		5220	17.542	5211.2088	5228.7512
		5240	17.582	5231.2088	5248.7912
		5260	17.662	5251.1289	5268.7912
		5300	17.702	5291.0490	5308.7512
		5320	17.902	5311.0889	5328.9910
		5500	17.702	5491.1289	5508.8312
		5580	17.942	5571.1688	5589.1109
		5680	17.662	5671.2088	5688.8711
		5700	17.702	5691.1688	5708.8711
		5720	17.622	5711.1688	5728.7912
		5745	17.582	5736.2088	5753.7912
		5785	17.782	5776.0889	5793.8711
		5825	17.862	5816.0490	5833.9111
11AC20SISO	Ant6	5180	18.102	5170.9291	5189.0310
		5220	18.142	5210.9291	5229.0709
		5240	18.182	5230.8891	5249.0709
		5260	18.142	5250.8891	5269.0310
		5300	18.262	5290.8092	5309.0709
		5320	18.302	5310.8492	5329.1508
		5500	18.262	5490.8891	5509.1508
		5580	18.342	5570.8891	5589.2308
		5680	18.182	5670.9291	5689.1109
		5700	18.222	5690.8891	5709.1109
		5720	18.222	5710.8891	5729.1109
		5745	18.262	5735.8492	5754.1109
		5785	18.262	5775.8492	5794.1109
		5825	18.342	5815.8092	5834.1508
11AC40SISO	Ant6	5190	36.763	5171.6184	5208.3816
		5230	36.763	5211.6983	5248.4615
		5270	36.763	5251.6184	5288.3816
		5310	36.683	5291.6983	5328.3816
		5510	36.923	5491.5385	5528.4615
		5550	36.683	5531.6983	5568.3816
		5670	36.683	5651.6184	5688.3017
		5710	36.763	5691.6184	5728.3816
		5755	36.763	5736.6983	5773.4615
		5795	36.763	5776.6184	5813.3816
11AC80SISO	Ant6	5210	76.244	5171.9580	5248.2018
		5290	76.244	5252.1179	5328.3616
		5530	76.084	5491.9580	5568.0420
		5610	76.244	5571.7982	5648.0420
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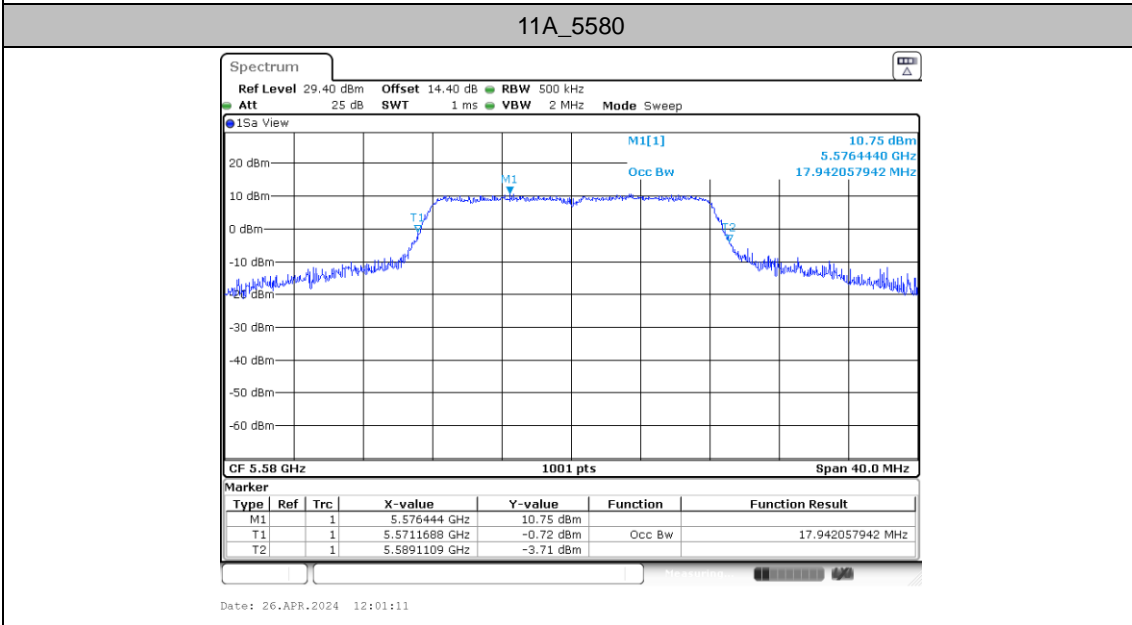
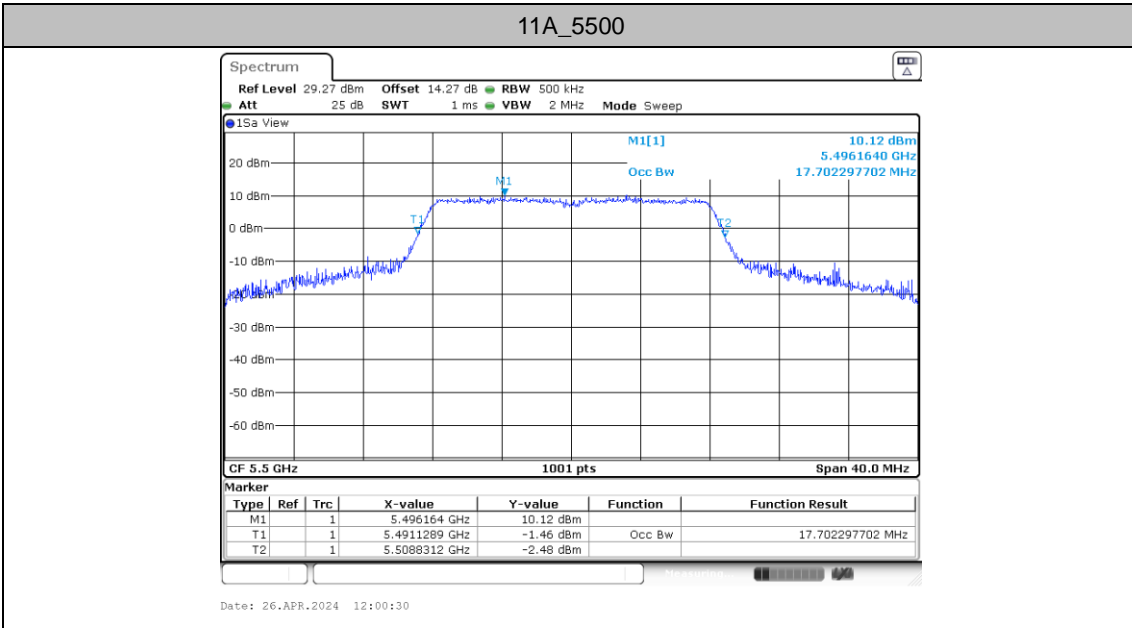


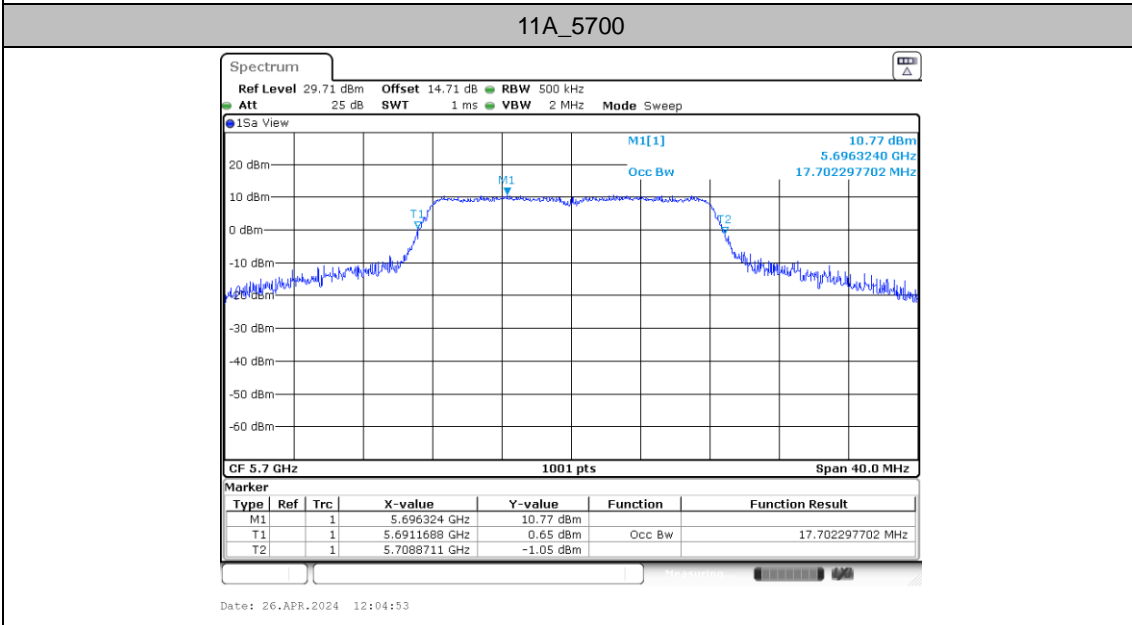
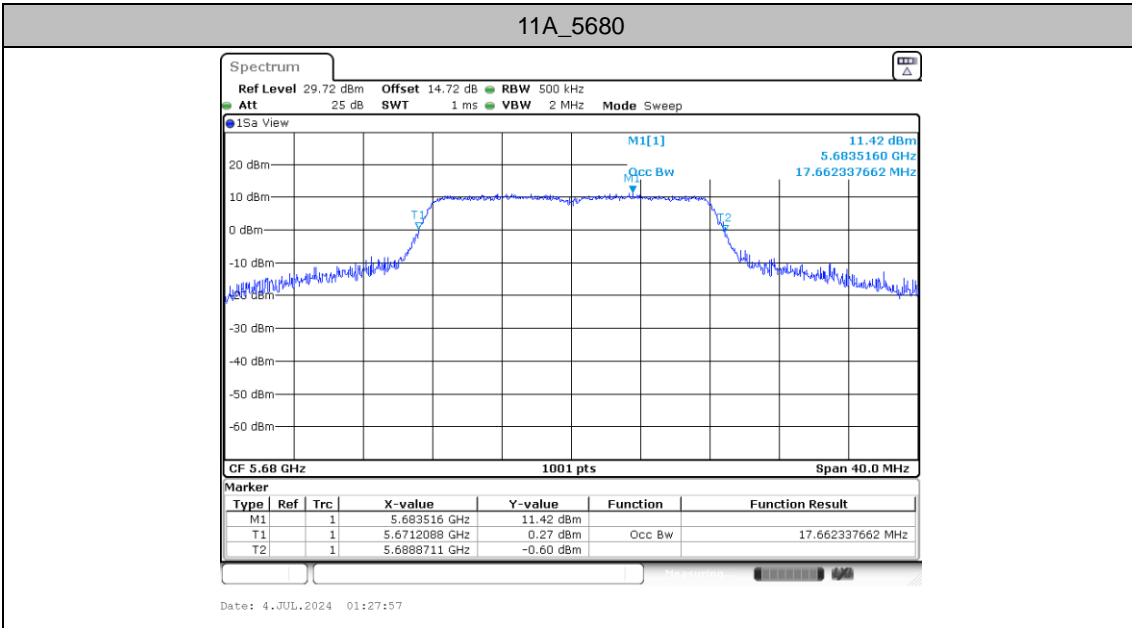
Test Graphs

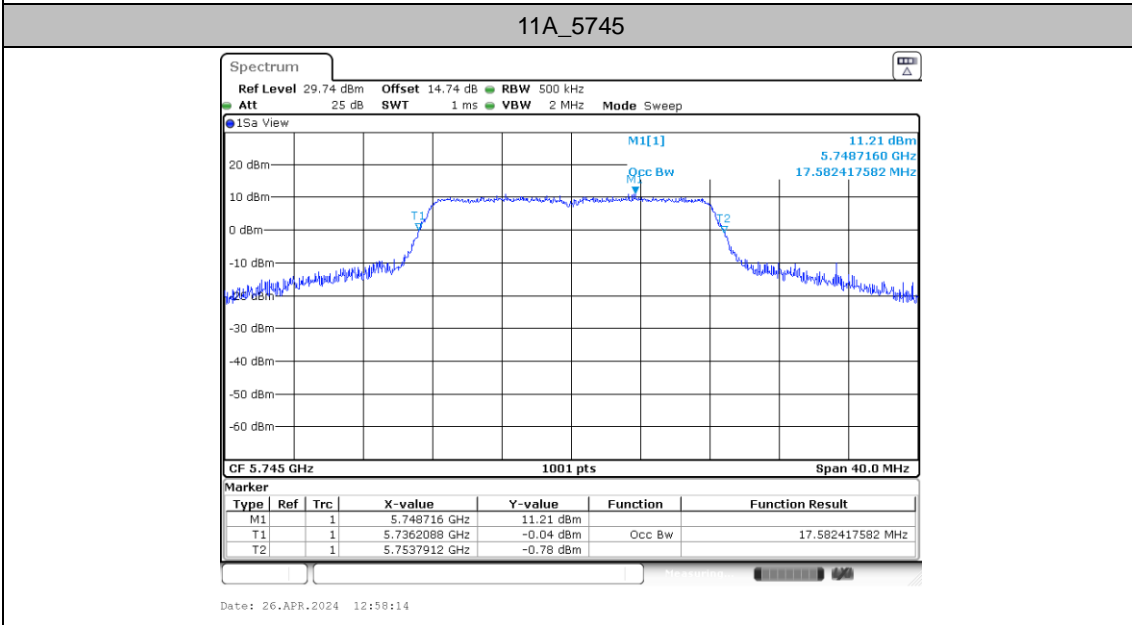
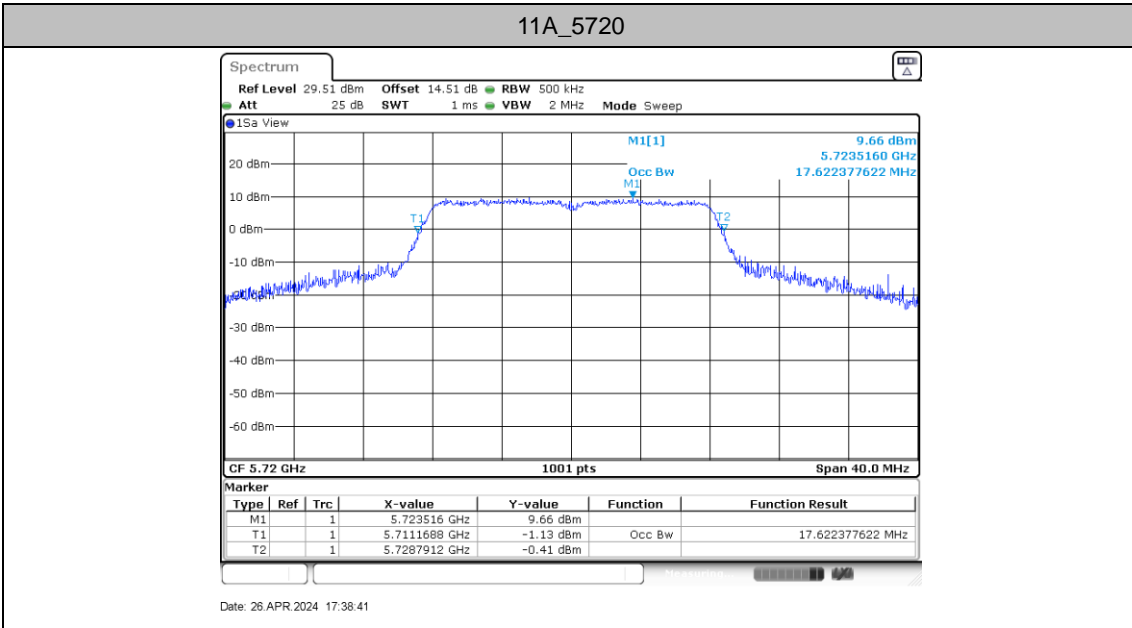




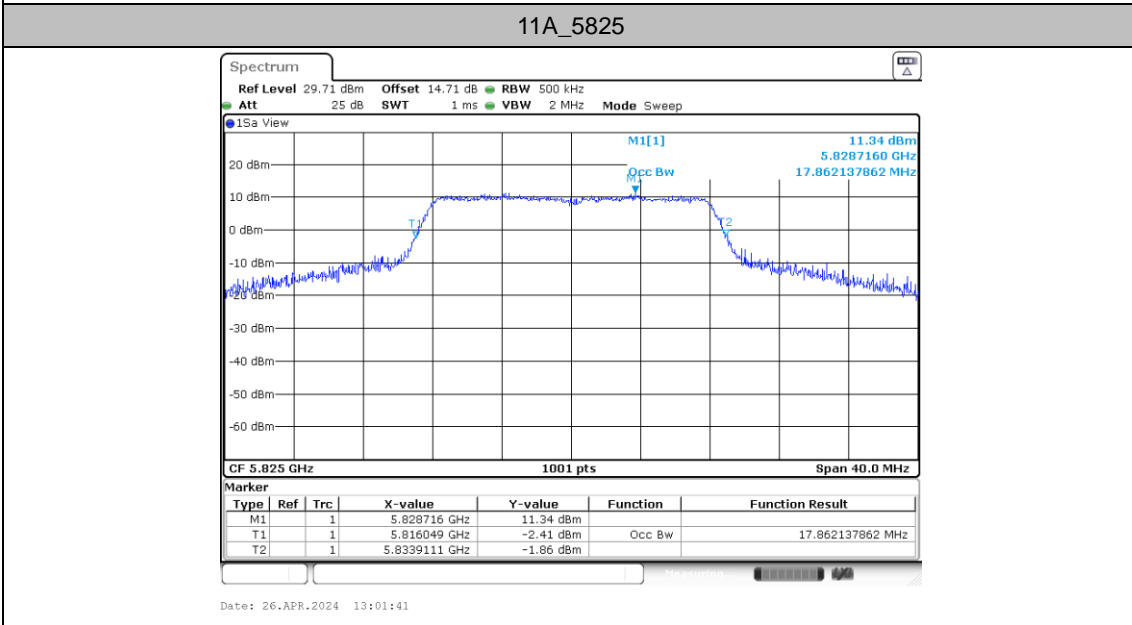
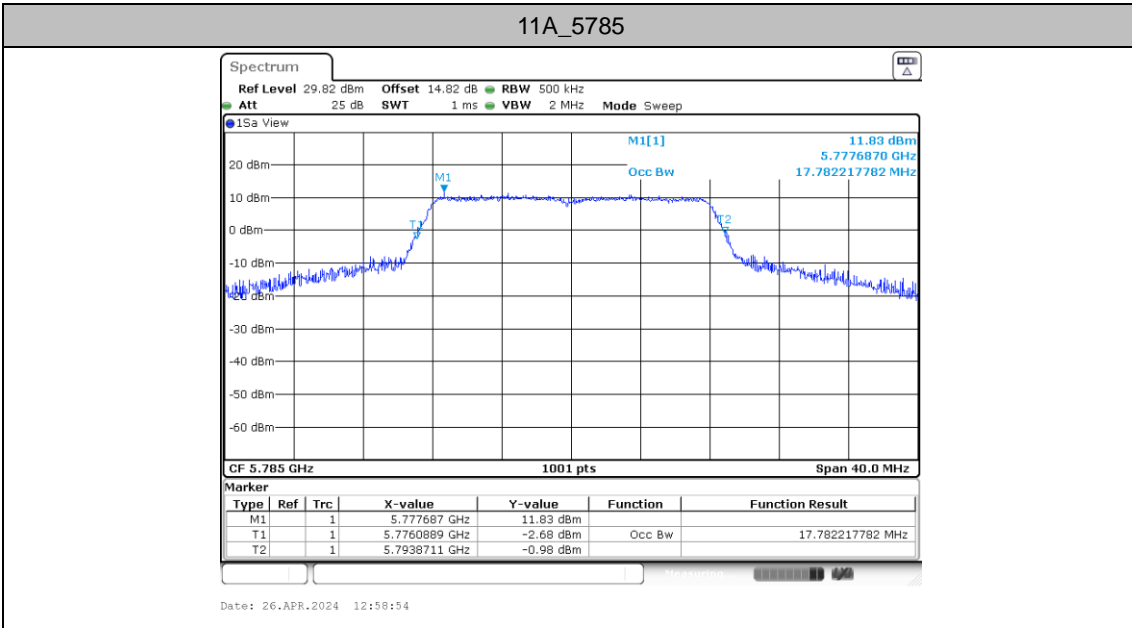






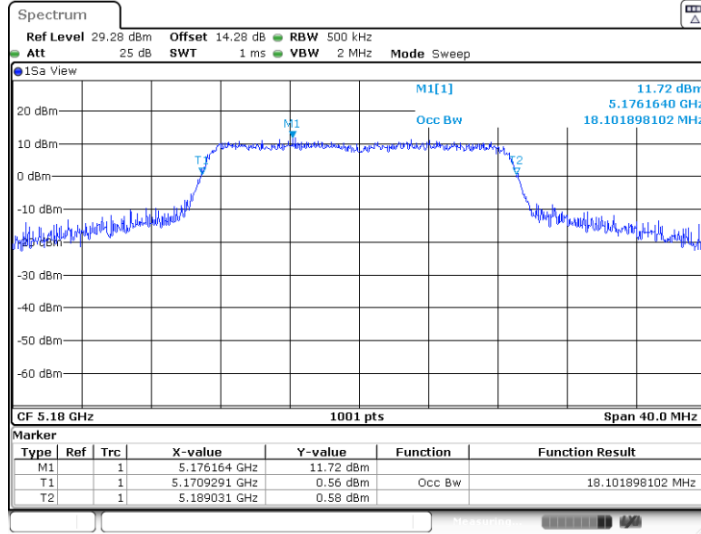




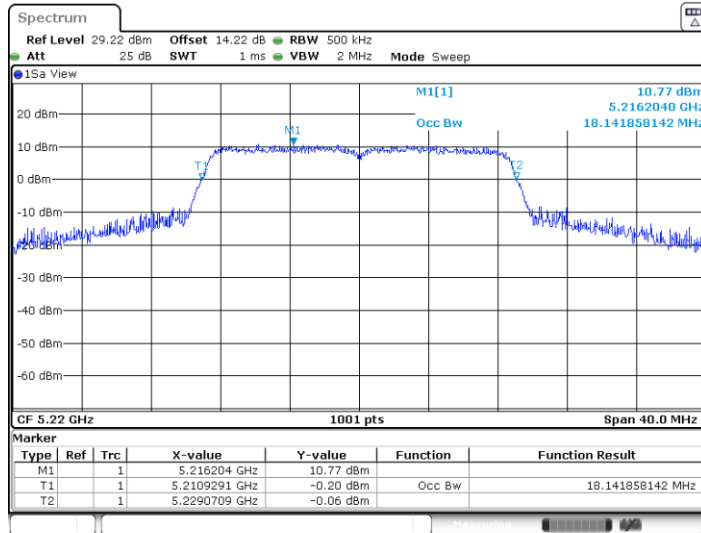




11AC20SISO\_5180

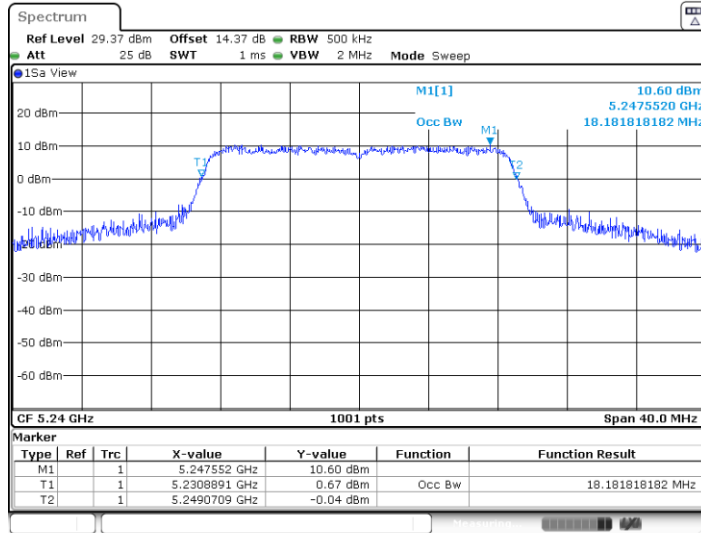


11AC20SISO\_5220



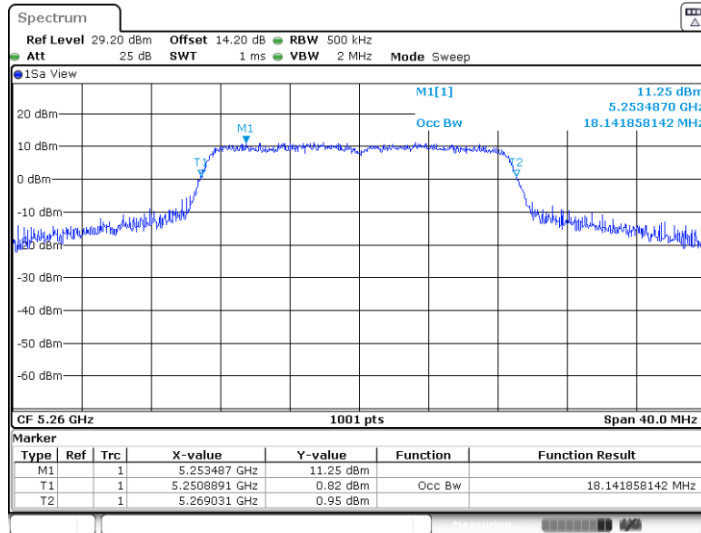


11AC20SISO\_5240

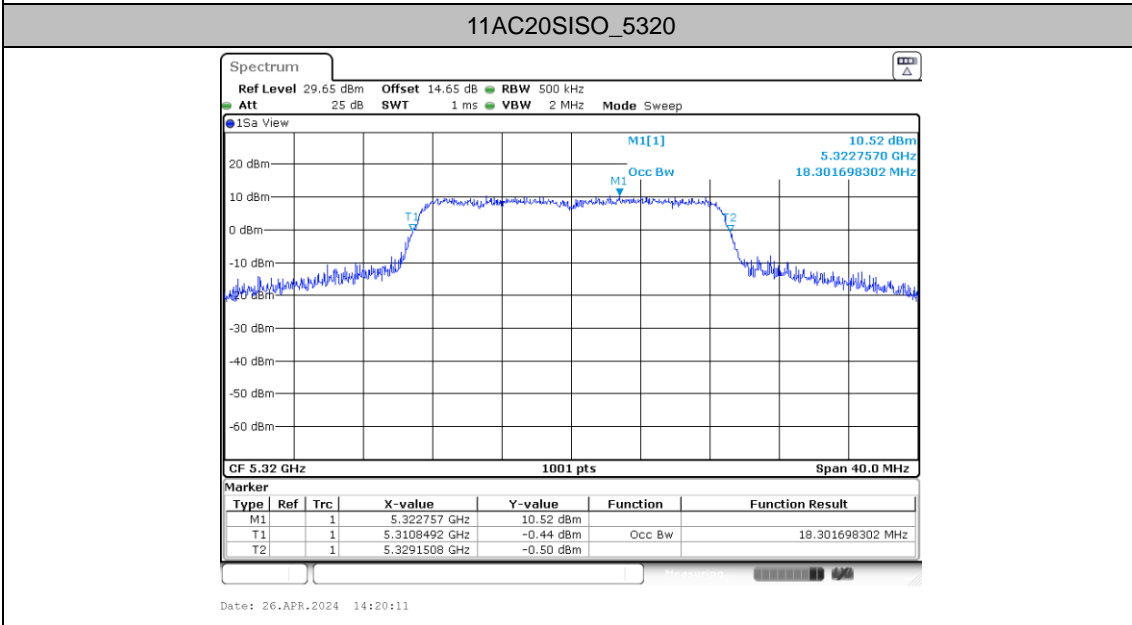
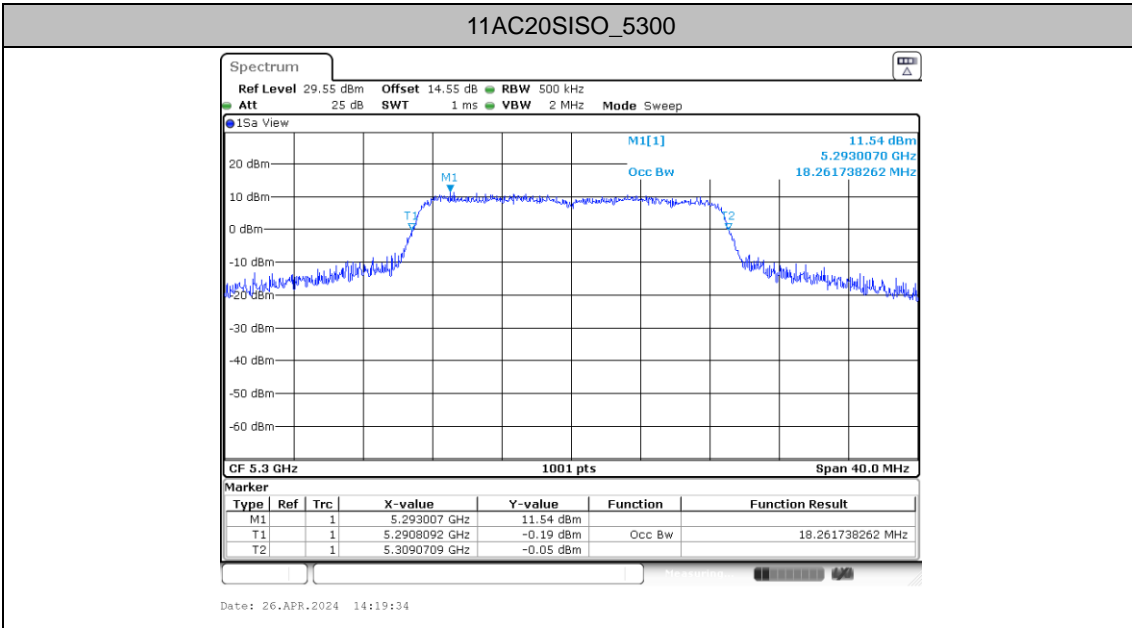


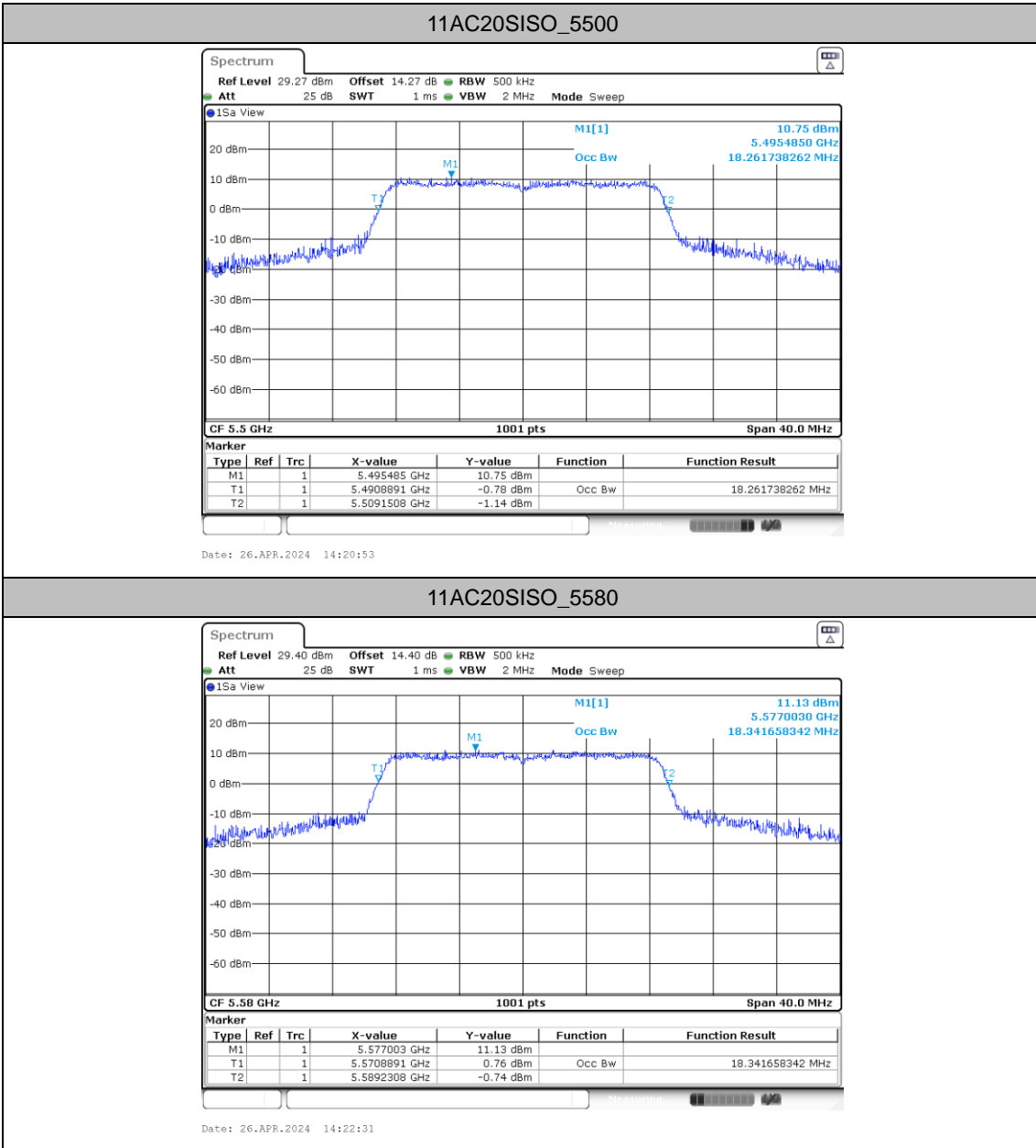
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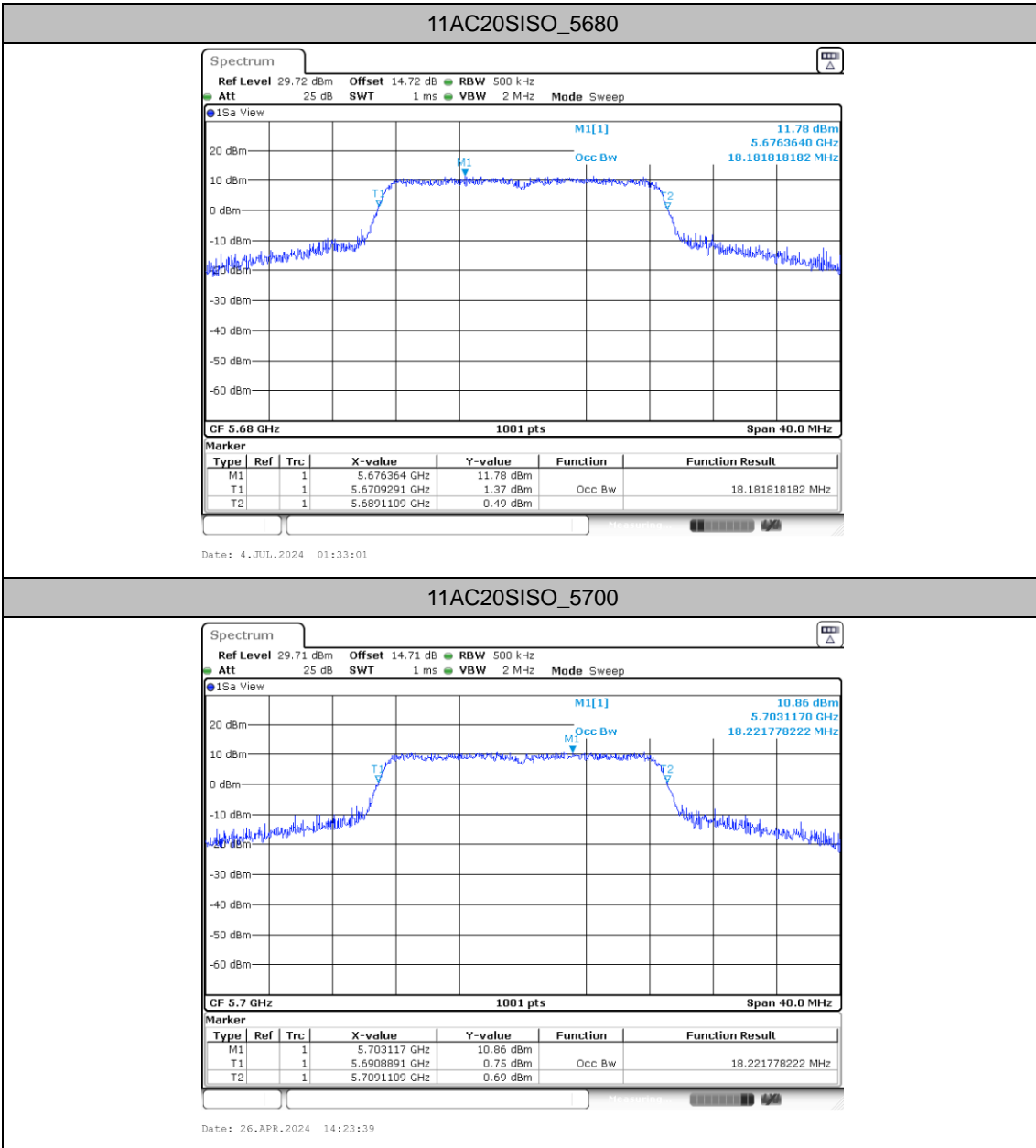
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Date: 26.APR.2024 14:18:55

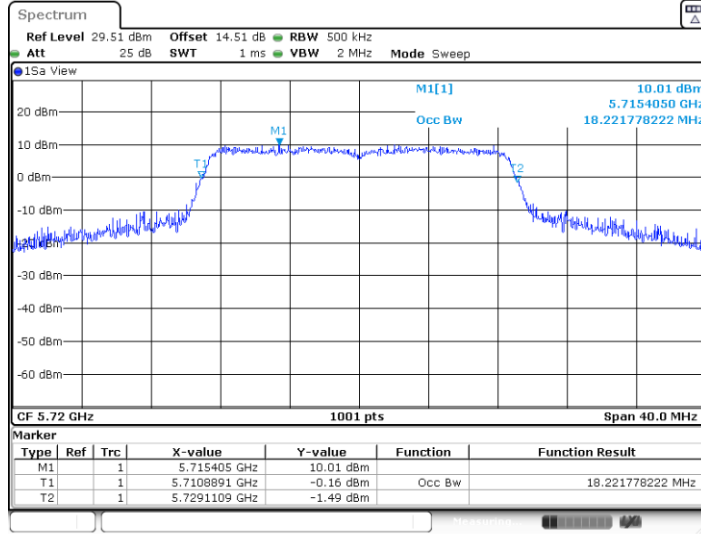






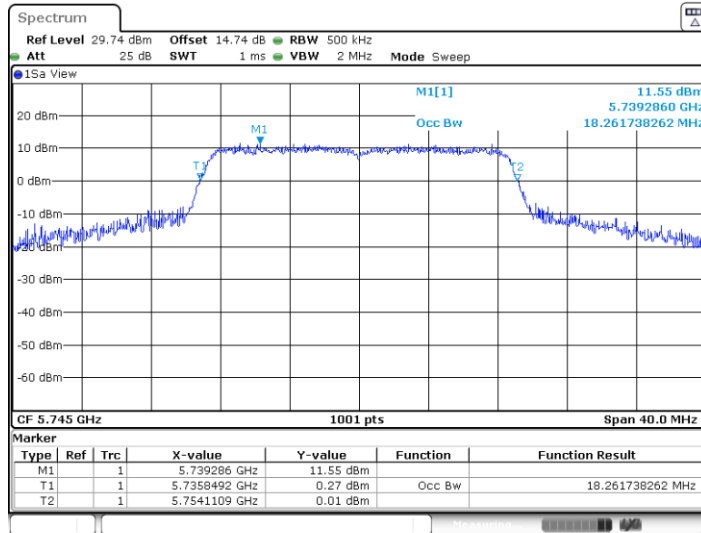


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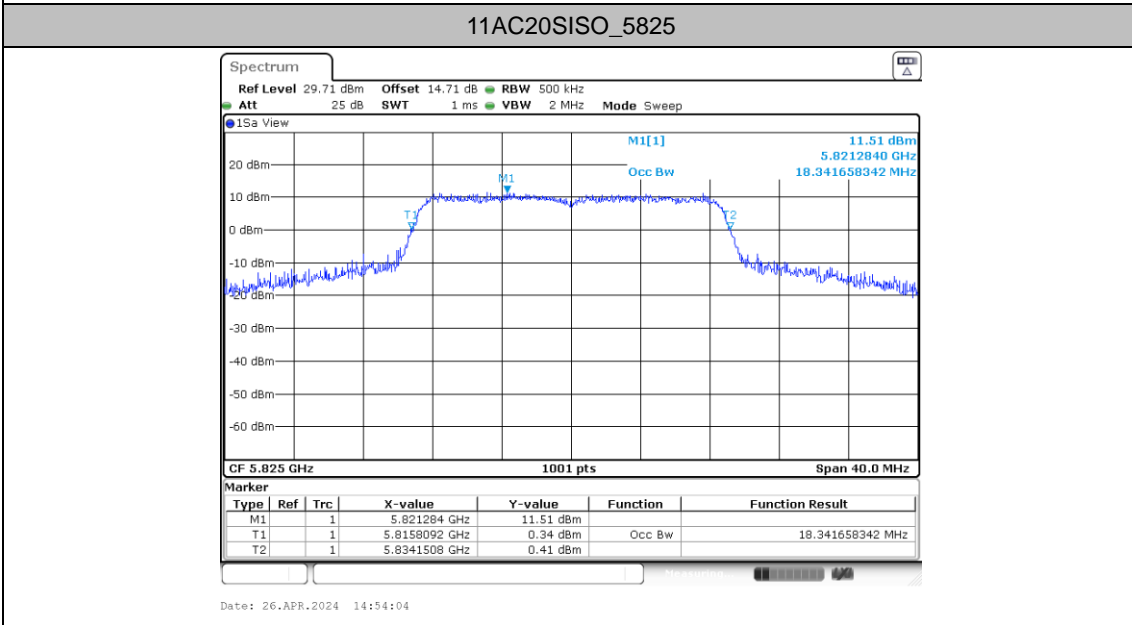
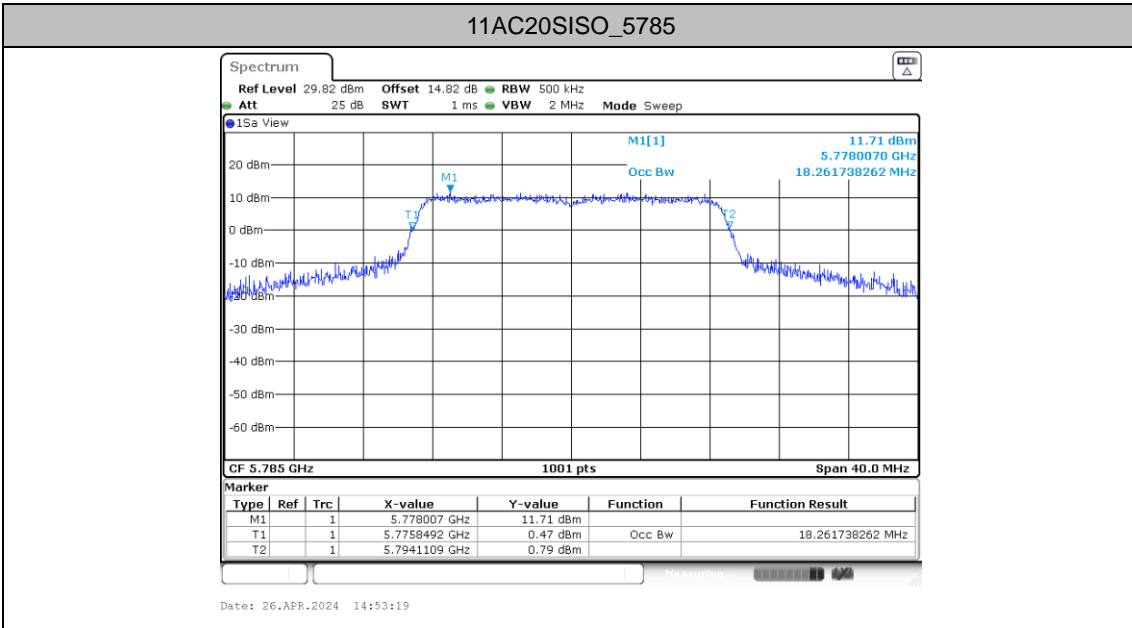


Date: 26 APR.2024 17:39:56

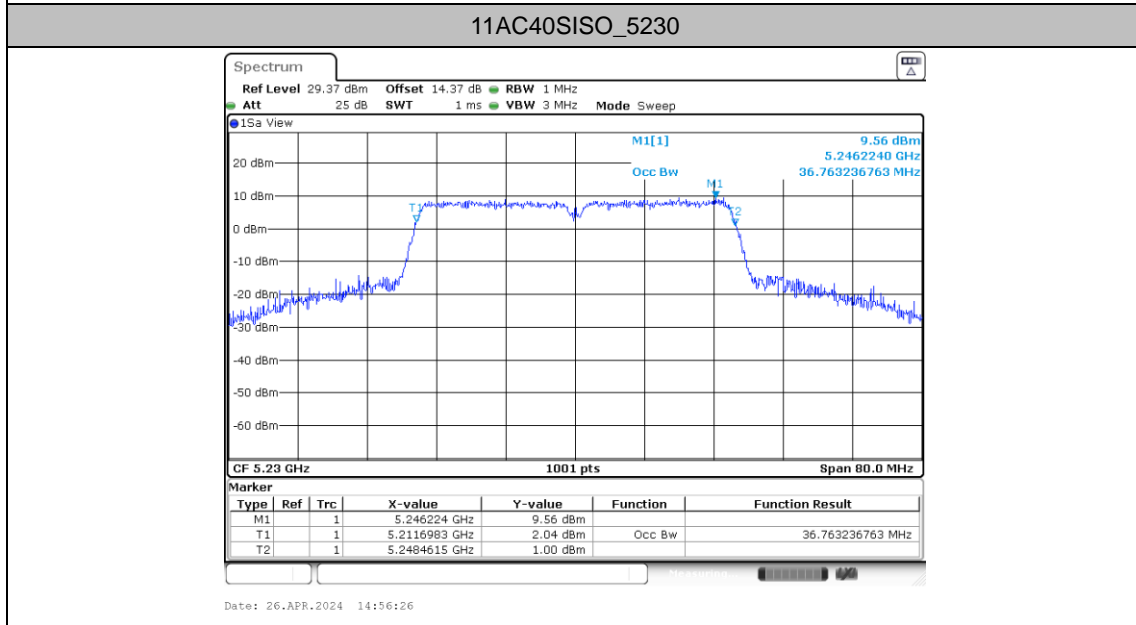
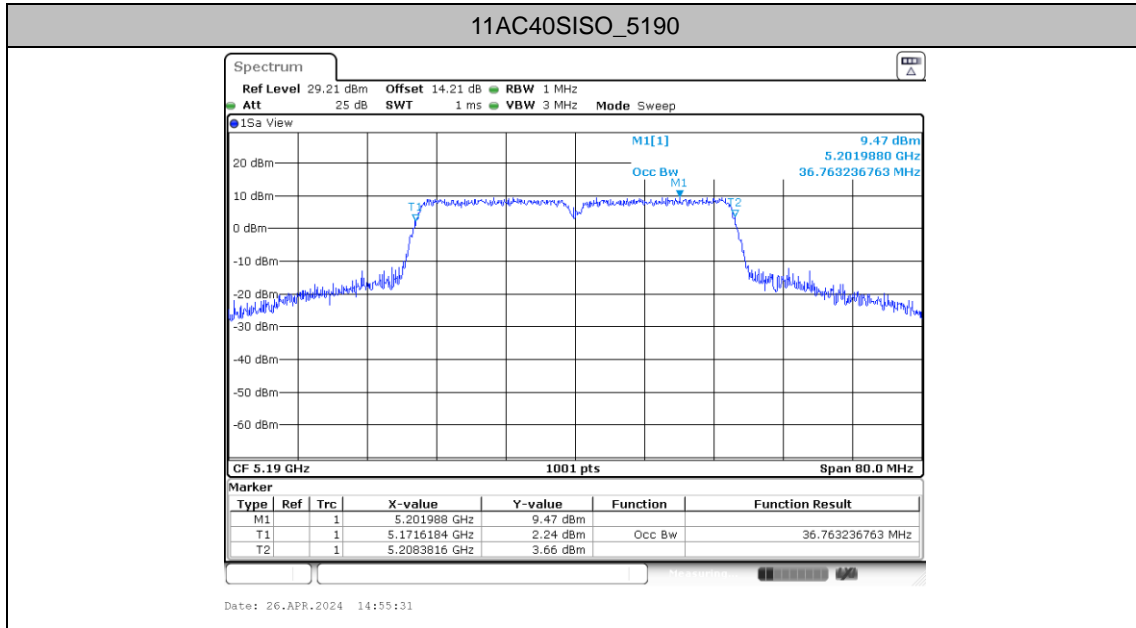
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Date: 26.APR.2024 14:39:05

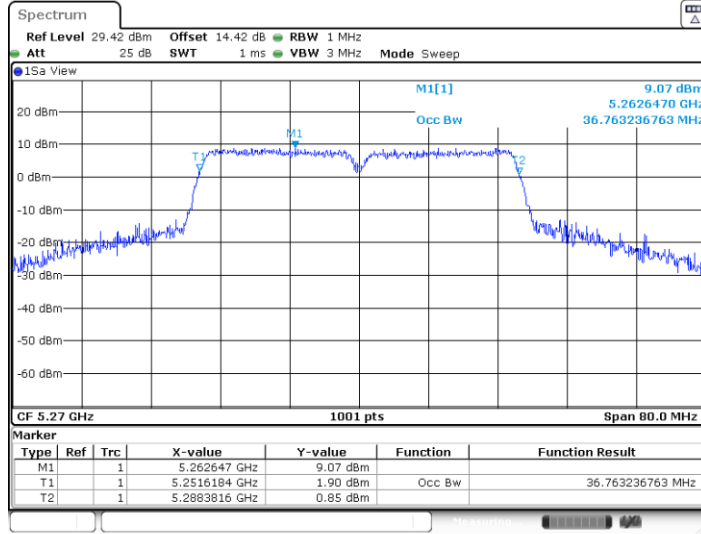






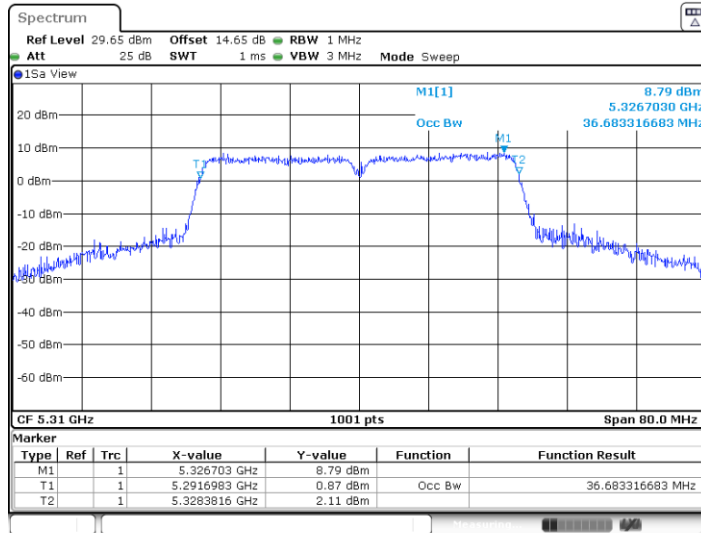


11AC40SISO\_5270



Date: 26.APR.2024 14:57:11

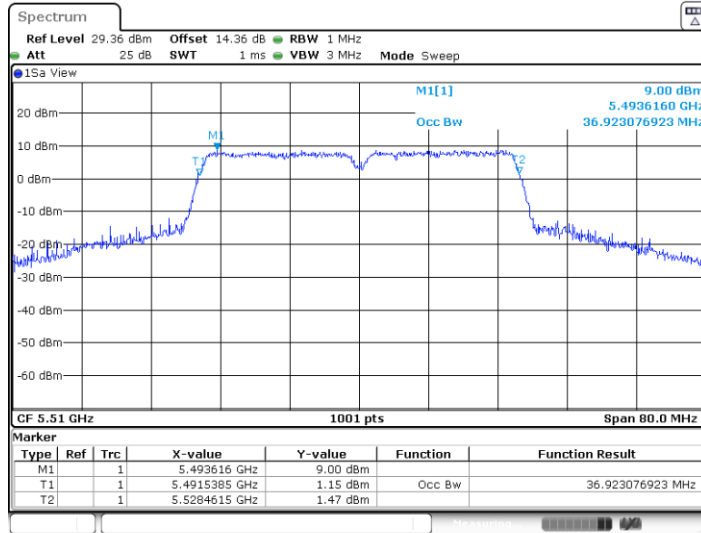
11AC40SISO\_5310



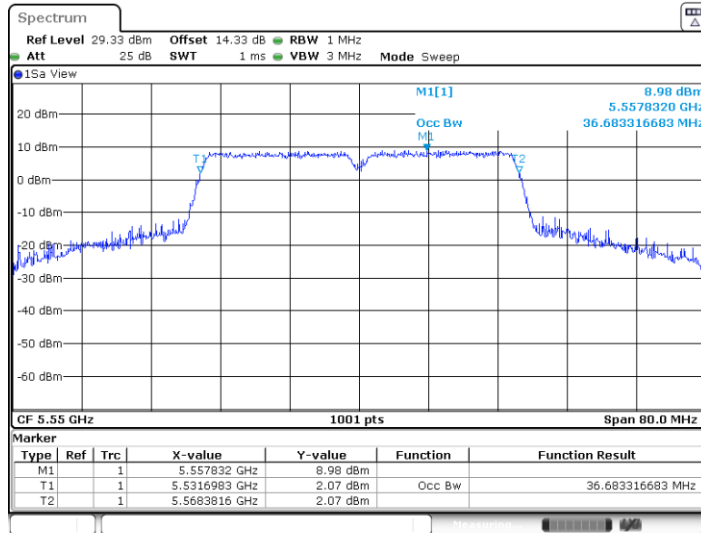
Date: 26.APR.2024 15:09:00



11AC40SISO\_5510

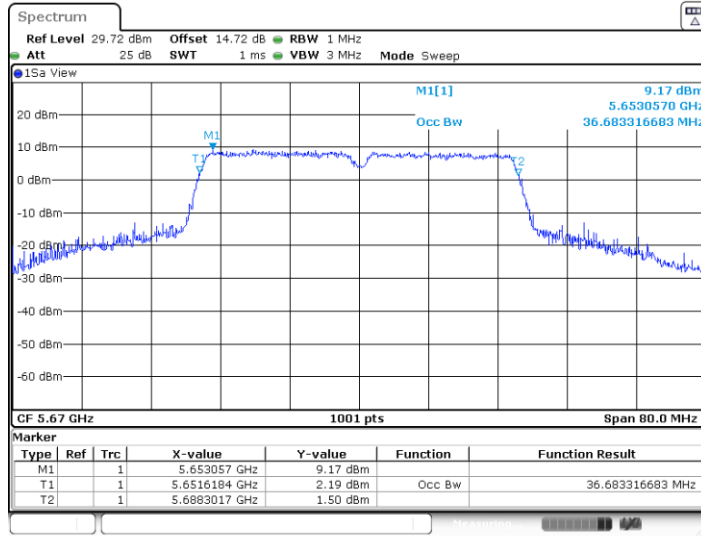


11AC40SISO\_5550



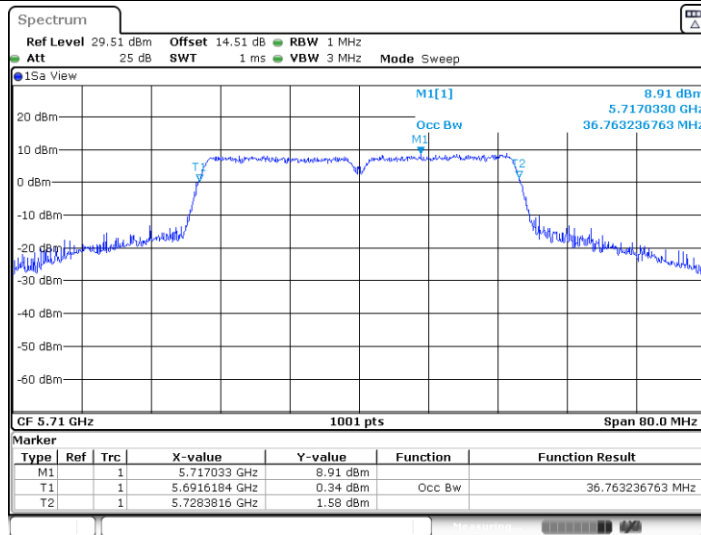


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Date: 26.APR.2024 15:13:47

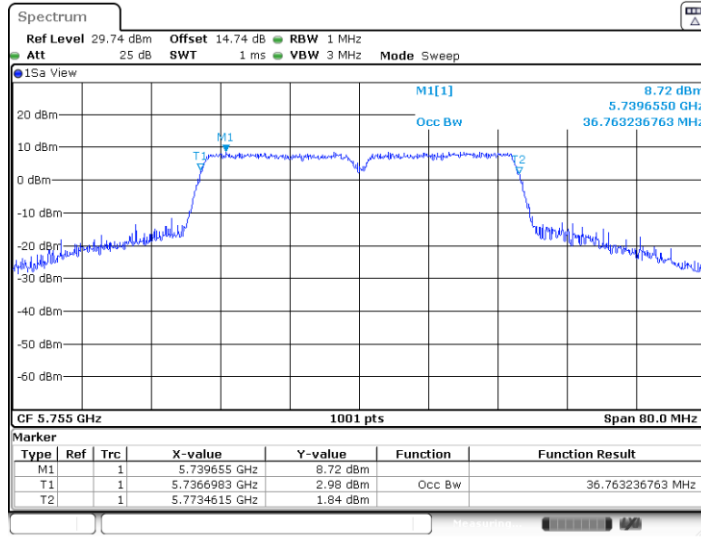
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Date: 26 APR 2024 17:40:56

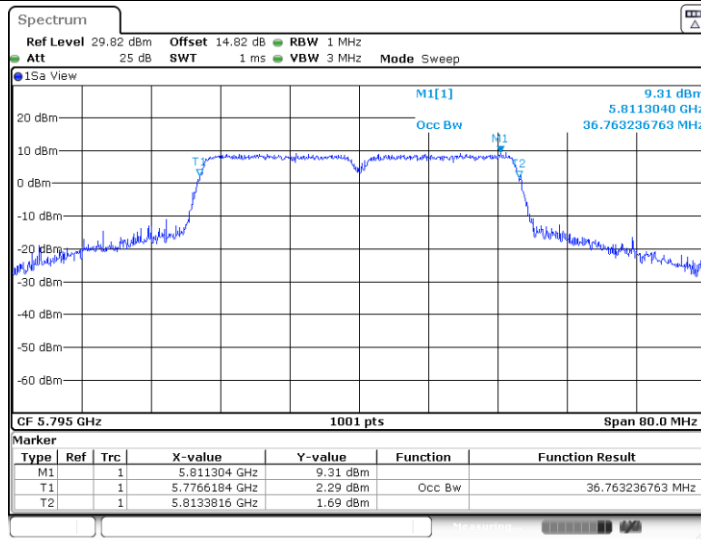


11AC40SISO\_5755



Date: 26.APR.2024 15:16:20

11AC40SISO\_5795



Date: 26.APR.2024 15:17:13