



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : 15E 6 GHz Low Power Dual Client (6CD)
(Standard Power UNII 5/7)
TEST DATE(S) : Aug. 01, 2025 ~ Aug. 15, 2025

We, Sporton International Inc. (Shenzhen), 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.

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

Fly Liang

Approved by: Fly Liang



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People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FR561202H	01	Initial issue of report	Sep. 01, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(11)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)(7)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(7)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(7)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(7)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Pass	1
3.5	15.407(b)	Unwanted Emissions	Pass	Under limit 20.90 dB at 5924.58 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 12.75 dB at 0.170 MHz
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Remark 1:

For CBP, receiver circuit is the same when connect to indoor AP and standard AP, the Contention Based Protocol have been demonstrated compliance in the Indoor low power test report which is issued separately (Report No. FR561202G).

Conformity Assessment Condition:

1. 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. 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

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
IMEI	Conducted: 867621080021194/867621080021186 Conduction: 867621080024719/867621080024701 Radiation: 867621080022598/867621080022580
HW Version	11
SW Version	OxygenOS 16.0
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	U-NII-5: 5925 MHz ~ 6425 MHz U-NII-7: 6525 MHz ~ 6875 MHz
Maximum EIRP	<MIMO Ant.15+10> <U-NII-5> 802.11a : 0.56 dBm / 0.0011 W 802.11ax HE20 : 0.60 dBm / 0.0011 W 802.11ax HE40 : 2.43 dBm / 0.0017 W 802.11ax HE80 : 8.43 dBm / 0.0070 W 802.11ax HE160 : 9.69 dBm / 0.0093 W 802.11be EHT20 : 0.72 dBm / 0.0012 W 802.11be EHT40 : 2.53 dBm / 0.0018 W 802.11be EHT80 : 8.49 dBm / 0.0071 W 802.11be EHT160 : 9.73 dBm / 0.0094 W 802.11be EHT320 : 15.55 dBm / 0.0359 W <U-NII-7> 802.11a : 1.97 dBm / 0.0016 W 802.11ax HE20 : 2.58 dBm / 0.0018 W 802.11ax HE40 : 3.73 dBm / 0.0024 W 802.11ax HE80 : 9.42 dBm / 0.0087 W 802.11ax HE160 : 11.72 dBm / 0.0149 W 802.11be EHT20 : 2.66 dBm / 0.0018 W 802.11be EHT40 : 3.77 dBm / 0.0024 W 802.11be EHT80 : 9.47 dBm / 0.0089 W 802.11be EHT160 : 11.75 dBm / 0.0150 W
99% Occupied Bandwidth	802.11a : 17.426 MHz 802.11be EHT20 : 19.378 MHz 802.11be EHT40 : 38.484 MHz 802.11be EHT80 : 77.960 MHz 802.11be EHT160 : 160.020 MHz 802.11be EHT320 : 319.840 MHz
Antenna Type / Gain	<5925 MHz ~ 6425 MHz > <Ant. 15> : IFA Antenna with gain -1.20 dBi <Ant. 10> : IFA Antenna with gain -2.10 dBi <6525 MHz ~ 6875 MHz > <Ant. 15> : IFA Antenna with gain -2.10 dBi <Ant. 10> : IFA Antenna with gain -4.60 dBi
Type of Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Remark:

1. WIFI MIMO support CDD by manufacturer declared.
2. For WLAN SISO & CDD MIMO mode, the whole testing has assessed only CDD MIMO mode by referring to the higher normal conducted power.
3. For 802.11ax/be 20/40/80/160MHz mode, the whole testing has assessed only 802.11be EHT20/EHT40/EHT80/EHT160MHz by referring to the higher output power.

4. 802.11ax/be support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested for conducted power/PSD/Channel Mask in appendix A, all the other test case were performed with full RU with its maximum power/PSD.
5. 802.11be support small size RU, Large size RU and Puncturing modes as below, which is less than full RU conducted power, therefore have assessed only Power Density/MASK/RSE.

<Small size RU 52+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	26	52	1	38	1
20MHz	52	26	39	7	3

<Small size RU 106+26 Tone>:

Bandwidth	Tones		Index		For test modes configure
20MHz	106	26	53	4	1
20MHz	26	106	4	54	2

<Large size RU 484+242 tone> & <80M BW Puncturing 20MHz>:

Bandwidth	Tones		Index		For test modes configure
80MHz	242	484	62	66	1
80MHz	242	484	61	66	2
80MHz	484	242	65	64	3
80MHz	484	242	65	63	4

<Large size RU 996+484 tone> & <160M BW Puncturing 40MHz>:

Bandwidth	Tones		Index		For test modes configure
160MHz	484-Left	996-Right	66-Left	67-Right	1
160MHz	484-Left	996-Right	65-Left	67-Right	2
160MHz	996-Left	484-Right	67-Left	66-Right	3
160MHz	996-Left	484-Right	67-Left	65-Right	4

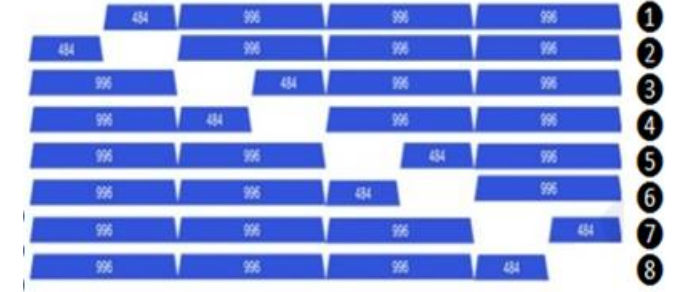
<Large size RU 996+484+242 tone> & <160M BW Puncturing 20MHz>:

Bandwidth	Tones			Index			For test modes configure
160MHz	242-Left	484-Left	996-Right	62-Left	66-Left	67-Right	1
160MHz	242-Left	484-Left	996-Right	61-Left	66-Left	67-Right	2
160MHz	484-Left	242-Left	996-Right	65-Left	64-Left	67-Right	3
160MHz	484-Left	242-Left	996-Right	65-Left	63-Left	67-Right	4
160MHz	996-Left	242-Right	484-Right	67-Left	62-Right	66-Right	5
160MHz	996-Left	242-Right	484-Right	67-Left	61-Right	66-Right	6
160MHz	996-Left	484-Right	242-Right	67-Left	65-Right	64-Right	7
160MHz	996-Left	484-Right	242-Right	67-Left	65-Right	63-Right	8

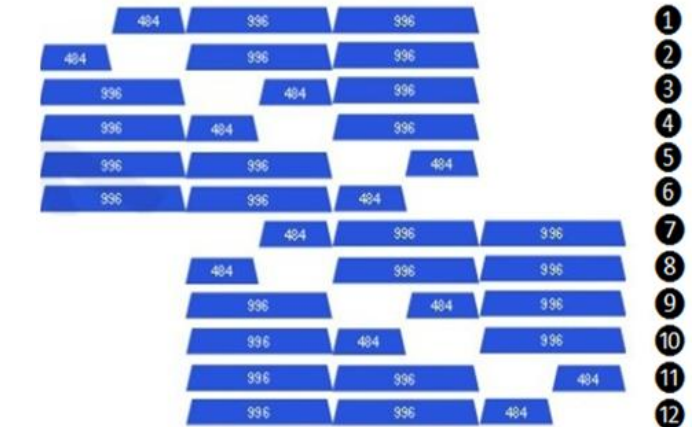
<Large size RU 3*996 tone> & <320M BW Puncturing 80MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4

<Large size RU 3*996+484 tone> & <320M BW Puncturing 40MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4
			5
			6
			7
			8

<Large size RU 2*996+484 tone> & <320M BW Puncturing 80+40MHz>:

Bandwidth	Tones	Index	For test modes configure
320MHz			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12

Only the worse cases are shown in this report.



1.5 Modification of EUT

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

1.6 Testing Location

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ DFS01-SZ CO02-SZ 03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020

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.



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 (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

<U-NII-5>

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							

BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							
BW 320M	Channel	31				63			
	Freq. (MHz)	6105				6265			



BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

<U-NII- 7>

BW 20M	Channel	-	-	-	-	-	117	121	125
	Freq. (MHz)	-	-	-	-	-	6535	6555	6575
BW 40M	Channel	-		-		-		123	
	Freq. (MHz)	-		-		-		6565	

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	-	-
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	-	-
BW 40M	Channel	163		171		179		-	
	Freq. (MHz)	6765		6805		6845		-	
BW 80M	Channel	167				-			
	Freq. (MHz)	6785				-			

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
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0
802.11be EHT80	MCS0
802.11be EHT160	MCS0
802.11be EHT320	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle+ BT Link+ WLAN Link(6G)+ USB Cable(Charging From Adapter 1) + Battery 1
Remark: For Radiated Test Cases, the tests were performed with Adapter and USB Cable.	

Ch. #		UNII-5	UNII-7	UNII-5	UNII-7
		20M BW	20M BW	40M BW	40M BW
L	Low	001	117	003	123
M	Middle	049	149	051	147
H	High	093	181	091	179

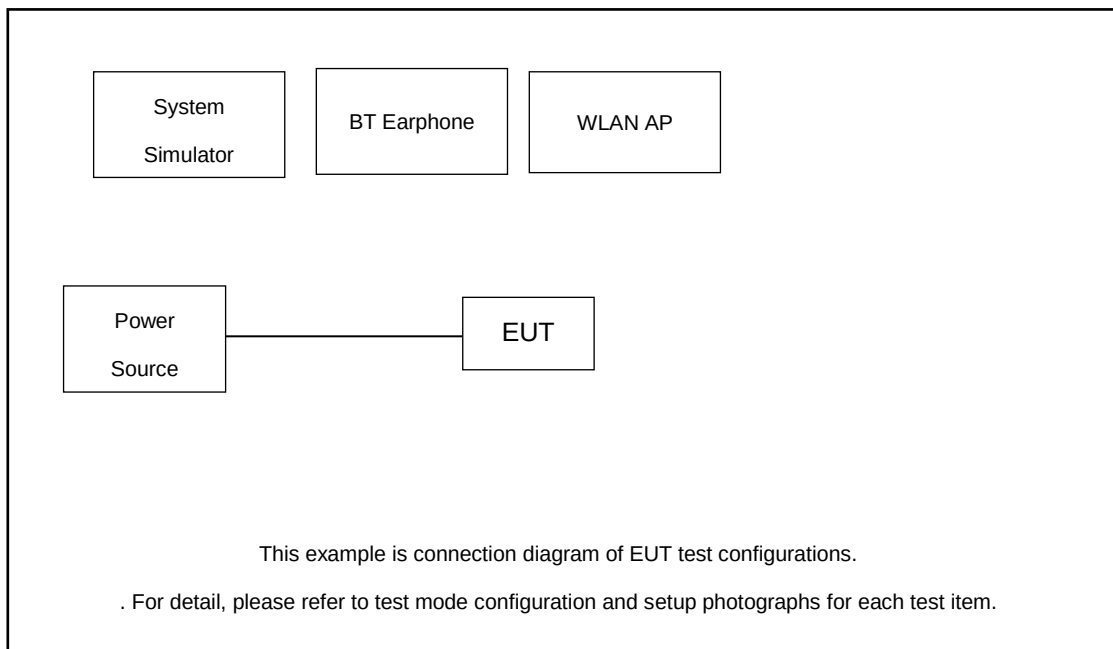
Ch. #		UNII-5	UNII-7	UNII-5	UNII-7
		80M BW	80M BW	160M BW	160M BW
L	Low	007	135	015	143
M	Middle	055	151	047	-
H	High	087	167	079	-

Ch. #		UNII-5
		320M BW
L	Low	031
M	Middle	-
H	High	063

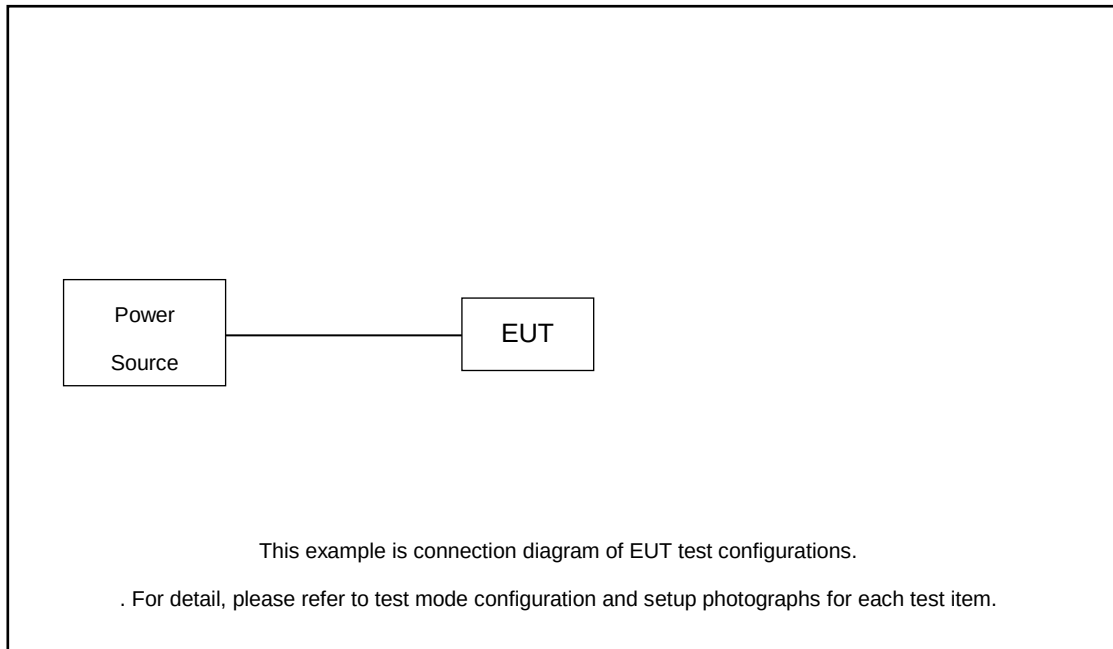
Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
3.	WLAN AP	NETHEAR	RAXE500	PY320300508	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program (QRCT TX Tool) 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 5.86 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5.86 + 10 = 15.86 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 CFR 15.407 (a)(11)

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

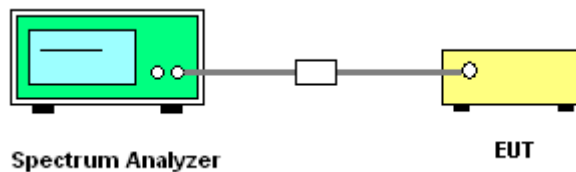
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. 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%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

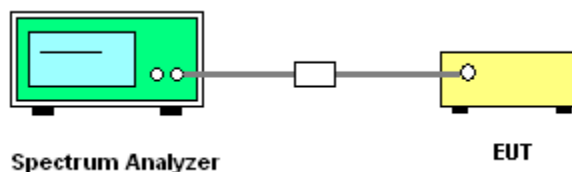
3.2.3 Test Procedures

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

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

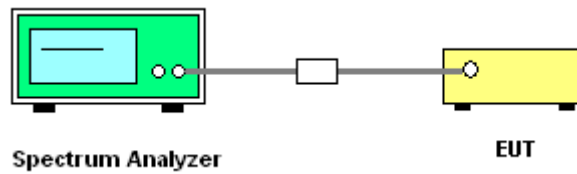
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - 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.
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, attenuator loss and duty factor. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is the bin-by-bin summation to obtain the combined spectrum. For the device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2

to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

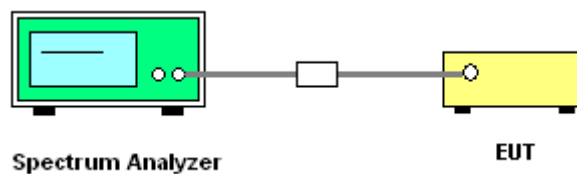
The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.

- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.5.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.2
- 7 (Peak)	88.2

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) 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

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

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

3.5.2 Measuring Instruments

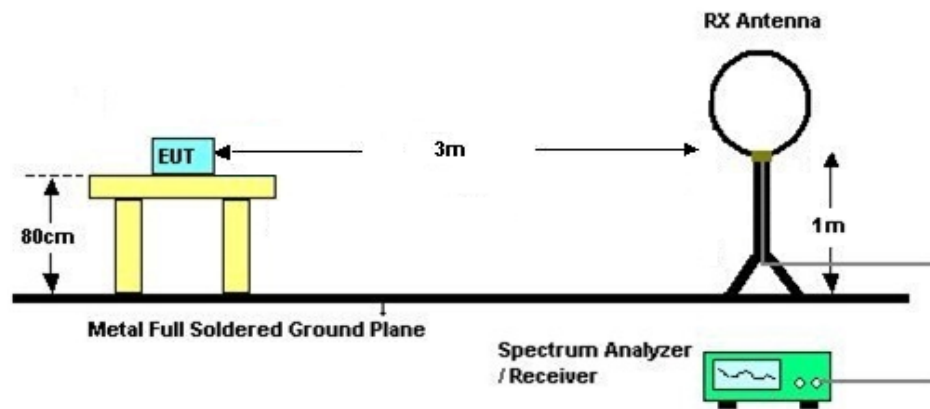
See list of measuring equipment of this test report.

3.5.3 Test Procedures

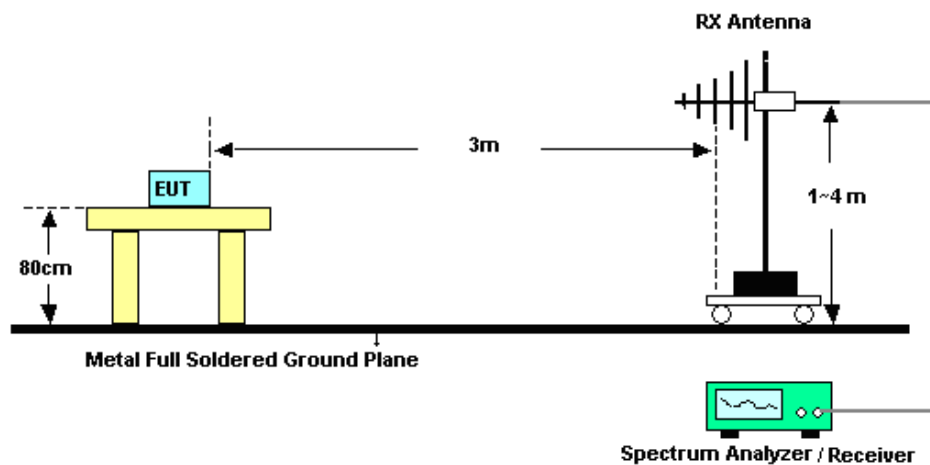
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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 and is transmitting at its maximum power control level for the tested mode of operation.
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.

3.5.4 Test Setup

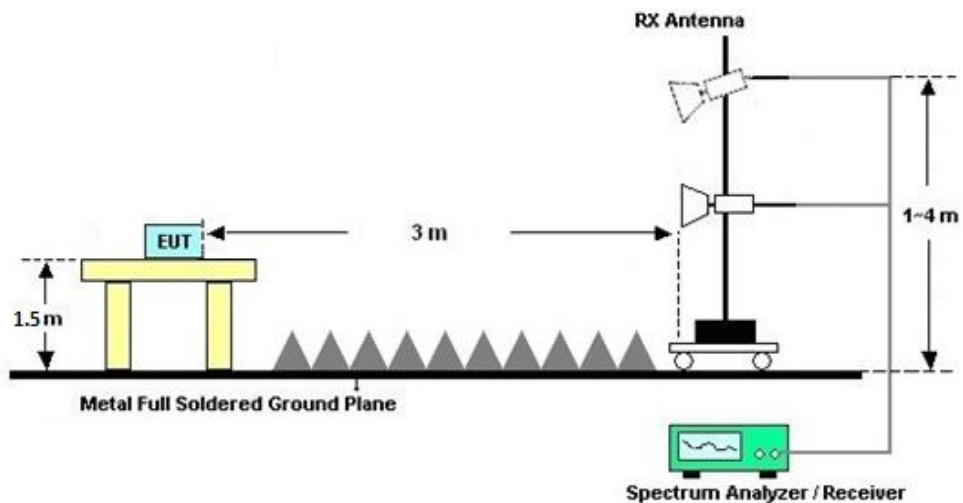
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 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 adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 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 (dB μ V)	
	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.

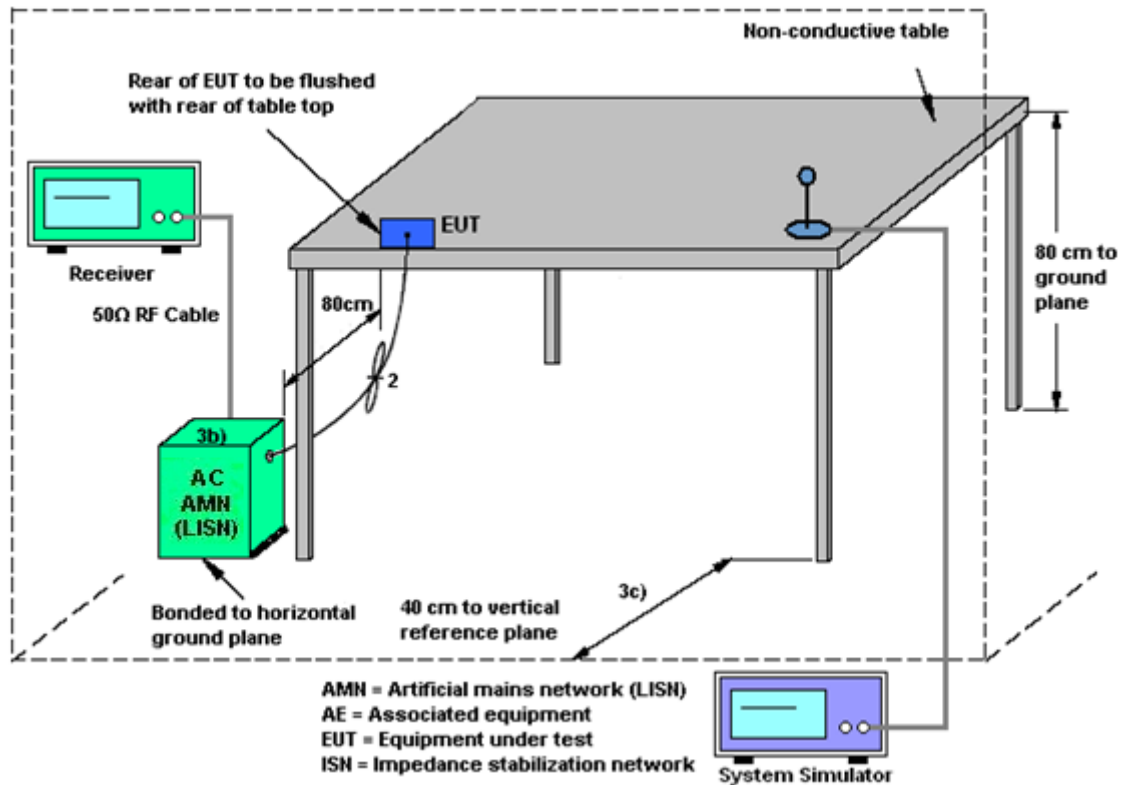
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 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.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

§15.203: 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 shall be considered sufficient to comply with the provisions of this section.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. The EUT complies with the requirement of 15.203.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e.,

Directional gain = $G_{ANT\ MAX}(Ant.1\ Gain, Ant.2\ Gain, \dots) + \text{Array Gain}$, as following table for Power, where Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

For PSD, the directional gain calculation is following,

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ANT}]$ dBi, as following table for PSD.

N_{ANT} = number of transmit antennas

N_{SS} = number of spatial streams. (The worst case directional gain will occur when $N_{SS} = 1$)

<CDD Modes>				
			DG	DG
			for	for
	Ant. 15	Ant. 10	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
U-NII-5	-1.20	-2.10	-1.20	1.37
U-NII-7	-2.10	-4.60	-2.10	-0.25



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Aug. 01, 2025~ Aug. 05, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Aug. 01, 2025~ Aug. 05, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	Aug. 01, 2025~ Aug. 05, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Aug. 01, 2025~ Aug. 05, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 25, 2024	Aug. 15, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Aug. 15, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 15, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Aug. 15, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 15, 2025	Jul. 03, 2026	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 03, 2025	Aug. 15, 2025	Apr. 02, 2027	Radiation (03CH01-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	Aug. 15, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Aug. 15, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Aug. 15, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 15, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Aug. 15, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 15, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 15, 2025	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 02, 2025	Aug. 06, 2025	Jul. 01, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2025	Aug. 06, 2025	Jul. 02, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec. 25, 2024	Aug. 06, 2025	Dec. 24, 2025	Conduction (CO02-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz
Conducted Generated signal Levels	± 0.62 dB
Conducted Time	0.38%

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
--	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.2dB
--	-------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0dB
--	-------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.3dB
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----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Chen ZhiQiang	Temperature:	21~25	°C
Test Date:	2025//08/01~2025/08/05	Relative Humidity:	51~54	%

TEST RESULTS DATA
EIRP Power Table

Band V MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant15	Ant10	Ant15	Ant10	SUM	Ant15	Ant10	SUM		
11a	6Mbps	2	1	5955	Full	0.04	0.04	-2.09	-1.18	1.40	-1.20		0.20	30.00	Pass
11a	6Mbps	2	45	6175	Full	0.04	0.04	-1.11	-1.88	1.53	-1.20		0.33	30.00	Pass
11a	6Mbps	2	93	6415	Full	0.04	0.04	-1.08	-1.43	1.76	-1.20		0.56	30.00	Pass
AX20	MCS0	2	1	5955	Full	0.02	0.02	-2.24	-1.12	1.36	-1.20		0.16	30.00	Pass
AX20	MCS0	2	1	5955	26/0	0.02	0.02	-7.57	-7.02	-4.28	-1.20		-5.48	30.00	Pass
AX20	MCS0	2	1	5955	52/37	0.02	0.02	-4.47	-4.03	-1.24	-1.20		-2.44	30.00	Pass
AX20	MCS0	2	1	5955	106/53	0.02	0.02	-1.52	-0.94	1.79	-1.20		0.59	30.00	Pass
AX20	MCS0	2	45	6175	Full	0.02	0.02	-1.22	-1.79	1.51	-1.20		0.31	30.00	Pass
AX20	MCS0	2	93	6415	Full	0.02	0.02	-1.26	-1.15	1.80	-1.20		0.60	30.00	Pass
AX40	MCS0	2	3	5965	Full	0.02	0.02	-0.53	0.59	3.07	-1.20		1.87	30.00	Pass
AX40	MCS0	2	43	6165	Full	0.02	0.02	0.45	-0.10	3.19	-1.20		1.99	30.00	Pass
AX40	MCS0	2	91	6405	Full	0.02	0.02	0.52	0.72	3.63	-1.20		2.43	30.00	Pass
AX80	MCS0	2	7	5985	Full	0.02	0.02	5.41	6.43	8.96	-1.20		7.76	30.00	Pass
AX80	MCS0	2	39	6145	Full	0.02	0.02	5.56	5.82	8.70	-1.20		7.50	30.00	Pass
AX80	MCS0	2	87	6385	Full	0.02	0.02	6.32	6.91	9.63	-1.20		8.43	30.00	Pass
AX160	MCS0	2	15	6025	Full	0.02	0.02	7.62	8.14	10.89	-1.20		9.69	30.00	Pass
AX160	MCS0	2	47	6185	Full	0.02	0.02	7.77	7.88	10.83	-1.20		9.63	30.00	Pass
AX160	MCS0	2	79	6345	Full	0.02	0.02	7.80	7.66	10.74	-1.20		9.54	30.00	Pass

Power Setting	
Ant15	Ant10
	-3.5
	-3.5
	-3.5
	-3
	-8
	-5
	-2
	-3
	-3
	-1
	-1
	-1
	5
	5
	5
	8
	8
	8

TEST RESULTS DATA
EIRP Power Table

Band V MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant15	Ant10	Ant15	Ant10	SUM	Ant15	Ant10	SUM			Ant15	Ant10
BE20	MCS0	2	1	5955	Full	0.02	0.02	-2.12	-1.03	1.47	-1.20		0.27	30.00	Pass	-3	
BE20	MCS0	2	1	5955	26/0	0.02	0.02	-7.45	-6.88	-4.15	-1.20		-5.35	30.00	Pass	-8	
BE20	MCS0	2	1	5955	52/37	0.02	0.02	-4.35	-3.89	-1.11	-1.20		-2.31	30.00	Pass	-5	
BE20	MCS0	2	1	5955	106/53	0.02	0.02	-1.40	-0.80	1.92	-1.20		0.72	30.00	Pass	-2	
BE20	MCS0	2	45	6175	Full	0.02	0.02	-1.10	-1.67	1.63	-1.20		0.43	30.00	Pass	-3	
BE20	MCS0	2	93	6415	Full	0.02	0.02	-1.14	-1.03	1.92	-1.20		0.72	30.00	Pass	-3	
BE40	MCS0	2	3	5965	Full	0.02	0.02	-0.43	0.69	3.17	-1.20		1.97	30.00	Pass	-1	
BE40	MCS0	2	43	6165	Full	0.02	0.02	0.55	0.00	3.29	-1.20		2.09	30.00	Pass	-1	
BE40	MCS0	2	91	6405	Full	0.02	0.02	0.62	0.82	3.73	-1.20		2.53	30.00	Pass	-1	
BE80	MCS0	2	7	5985	Full	0.02	0.01	5.47	6.48	9.01	-1.20		7.81	30.00	Pass	5	
BE80	MCS0	2	39	6145	Full	0.02	0.01	5.62	5.87	8.75	-1.20		7.55	30.00	Pass	5	
BE80	MCS0	2	87	6385	Full	0.02	0.01	6.38	6.96	9.69	-1.20		8.49	30.00	Pass	5	
BE160	MCS0	2	15	6025	Full	0.01	0.02	7.65	8.18	10.93	-1.20		9.73	30.00	Pass	8	
BE160	MCS0	2	47	6185	Full	0.01	0.02	7.80	7.92	10.87	-1.20		9.67	30.00	Pass	8	
BE160	MCS0	2	79	6345	Full	0.01	0.02	7.83	7.70	10.77	-1.20		9.57	30.00	Pass	8	
BE320	MCS0	2	31	6105	Full	0.02	0.02	13.52	13.96	16.75	-1.20		15.55	30.00	Pass	13	
BE320	MCS0	2	63	6265	Full	0.02	0.02	13.64	13.61	16.63	-1.20		15.43	30.00	Pass	13	

TEST RESULTS DATA
EIRP Power Table

Band VII MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant15	Ant10	Ant15	Ant10	SUM	Ant15	Ant10	SUM		
11a	6Mbps	2	117	6535	Full	0.04	0.04	1.39	0.70	4.07	-2.10		1.97	30.00	Pass
11a	6Mbps	2	149	6695	Full	0.04	0.04	1.41	0.55	4.01	-2.10		1.91	30.00	Pass
11a	6Mbps	2	181	6855	Full	0.04	0.04	1.15	0.79	3.99	-2.10		1.89	30.00	Pass
AX20	MCS0	2	117	6535	Full	0.02	0.02	1.15	0.78	3.98	-2.10		1.88	30.00	Pass
AX20	MCS0	2	149	6695	Full	0.02	0.02	1.07	0.65	3.87	-2.10		1.77	30.00	Pass
AX20	MCS0	2	181	6855	Full	0.02	0.02	0.75	0.77	3.77	-2.10		1.67	30.00	Pass
AX20	MCS0	2	181	6855	26/8	0.02	0.02	-5.97	-6.19	-3.07	-2.10		-5.17	30.00	Pass
AX20	MCS0	2	181	6855	52/40	0.02	0.02	-2.84	-3.09	0.04	-2.10		-2.06	30.00	Pass
AX20	MCS0	2	181	6855	106/54	0.02	0.02	1.63	1.72	4.68	-2.10		2.58	30.00	Pass
AX40	MCS0	2	123	6565	Full	0.02	0.02	2.60	2.56	5.59	-2.10		3.49	30.00	Pass
AX40	MCS0	2	147	6685	Full	0.02	0.02	2.57	3.06	5.83	-2.10		3.73	30.00	Pass
AX40	MCS0	2	179	6845	Full	0.02	0.02	2.53	2.62	5.58	-2.10		3.48	30.00	Pass
AX80	MCS0	2	135	6625	Full	0.02	0.02	8.22	8.74	11.49	-2.10		9.39	30.00	Pass
AX80	MCS0	2	151	6705	Full	0.02	0.02	8.09	8.76	11.44	-2.10		9.34	30.00	Pass
AX80	MCS0	2	167	6785	Full	0.02	0.02	8.42	8.60	11.52	-2.10		9.42	30.00	Pass
AX160	MCS0	2	143	6665	Full	0.02	0.02	10.61	11.00	13.82	-2.10		11.72	30.00	Pass

Power Setting	
Ant15	Ant10
-1	
-1	
-1	
-0.5	
-0.5	
-0.5	
-7	
-4	
1.5	
2.5	
2.5	
2.5	
9.5	
9	
9	
11.5	

TEST RESULTS DATA
EIRP Power Table

Band VII MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power with duty factor (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Power Setting	
						Ant15	Ant10	Ant15	Ant10	SUM	Ant15	Ant10	SUM			Ant15	Ant10
BE20	MCS0	2	117	6535	Full	0.02	0.02	1.27	0.90	4.10	-2.10	2.00	30.00	Pass		-0.5	
BE20	MCS0	2	149	6695	Full	0.02	0.02	1.19	0.77	3.99	-2.10	1.89	30.00	Pass		-0.5	
BE20	MCS0	2	181	6855	Full	0.02	0.02	0.87	0.89	3.89	-2.10	1.79	30.00	Pass		-0.5	
BE20	MCS0	2	181	6855	26/8	0.02	0.02	-5.89	-6.11	-2.99	-2.10	-5.09	30.00	Pass		-7	
BE20	MCS0	2	181	6855	52/40	0.02	0.02	-2.76	-3.01	0.12	-2.10	-1.98	30.00	Pass		-4	
BE20	MCS0	2	181	6855	106/54	0.02	0.02	1.71	1.80	4.76	-2.10	2.66	30.00	Pass		1.5	
BE40	MCS0	2	123	6565	Full	0.02	0.02	2.64	2.60	5.63	-2.10	3.53	30.00	Pass		2.5	
BE40	MCS0	2	147	6685	Full	0.02	0.02	2.61	3.10	5.87	-2.10	3.77	30.00	Pass		2.5	
BE40	MCS0	2	179	6845	Full	0.02	0.02	2.57	2.66	5.62	-2.10	3.52	30.00	Pass		2.5	
BE80	MCS0	2	135	6625	Full	0.02	0.01	8.28	8.79	11.55	-2.10	9.45	30.00	Pass		9.5	
BE80	MCS0	2	151	6705	Full	0.02	0.01	8.15	8.81	11.50	-2.10	9.40	30.00	Pass		9	
BE80	MCS0	2	167	6785	Full	0.02	0.01	8.48	8.65	11.57	-2.10	9.47	30.00	Pass		9	
BE160	MCS0	2	143	6665	Full	0.01	0.02	10.64	11.04	13.85	-2.10	11.75	30.00	Pass		11.5	



Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant15	5955	21.97	5944.07	5966.04	≤320	PASS
	Ant10	5955	21.60	5944.08	5965.68	≤320	PASS
	Ant15	6175	21.68	6164.05	6185.73	≤320	PASS
	Ant10	6175	21.62	6164.06	6185.68	≤320	PASS
	Ant15	6415	21.64	6404.08	6425.72	≤320	PASS
	Ant10	6415	21.60	6404.08	6425.68	≤320	PASS
	Ant15	6535	22.01	6524.05	6546.06	≤320	PASS
	Ant10	6535	21.61	6524.08	6545.69	≤320	PASS
	Ant15	6695	22.01	6684.05	6706.06	≤320	PASS
	Ant10	6695	22.01	6684.05	6706.06	≤320	PASS
	Ant15	6855	21.40	6844.08	6865.48	≤320	PASS
	Ant10	6855	21.59	6844.08	6865.67	≤320	PASS
11BE20MIMO	Ant15	5955	22.07	5944.23	5966.30	≤320	PASS
	Ant10	5955	22.98	5943.34	5966.32	≤320	PASS
	Ant15	6175	22.24	6163.69	6185.93	≤320	PASS
	Ant10	6175	22.19	6164.14	6186.33	≤320	PASS
	Ant15	6415	21.88	6404.11	6425.99	≤320	PASS
	Ant10	6415	22.07	6403.99	6426.06	≤320	PASS
	Ant15	6535	22.48	6523.72	6546.20	≤320	PASS
	Ant10	6535	22.48	6523.52	6546.00	≤320	PASS
	Ant15	6695	22.10	6683.83	6705.93	≤320	PASS
	Ant10	6695	22.01	6683.90	6705.91	≤320	PASS
	Ant15	6855	22.55	6843.84	6866.39	≤320	PASS
	Ant10	6855	22.66	6843.33	6865.99	≤320	PASS
11BE40MIMO	Ant15	5965	43.06	5943.76	5986.82	≤320	PASS
	Ant10	5965	42.72	5943.18	5985.90	≤320	PASS
	Ant15	6165	42.42	6143.66	6186.08	≤320	PASS
	Ant10	6165	43.40	6142.98	6186.38	≤320	PASS
	Ant15	6405	42.10	6383.96	6426.06	≤320	PASS
	Ant10	6405	43.38	6382.70	6426.08	≤320	PASS
	Ant15	6565	42.82	6543.16	6585.98	≤320	PASS
	Ant10	6565	42.68	6543.54	6586.22	≤320	PASS



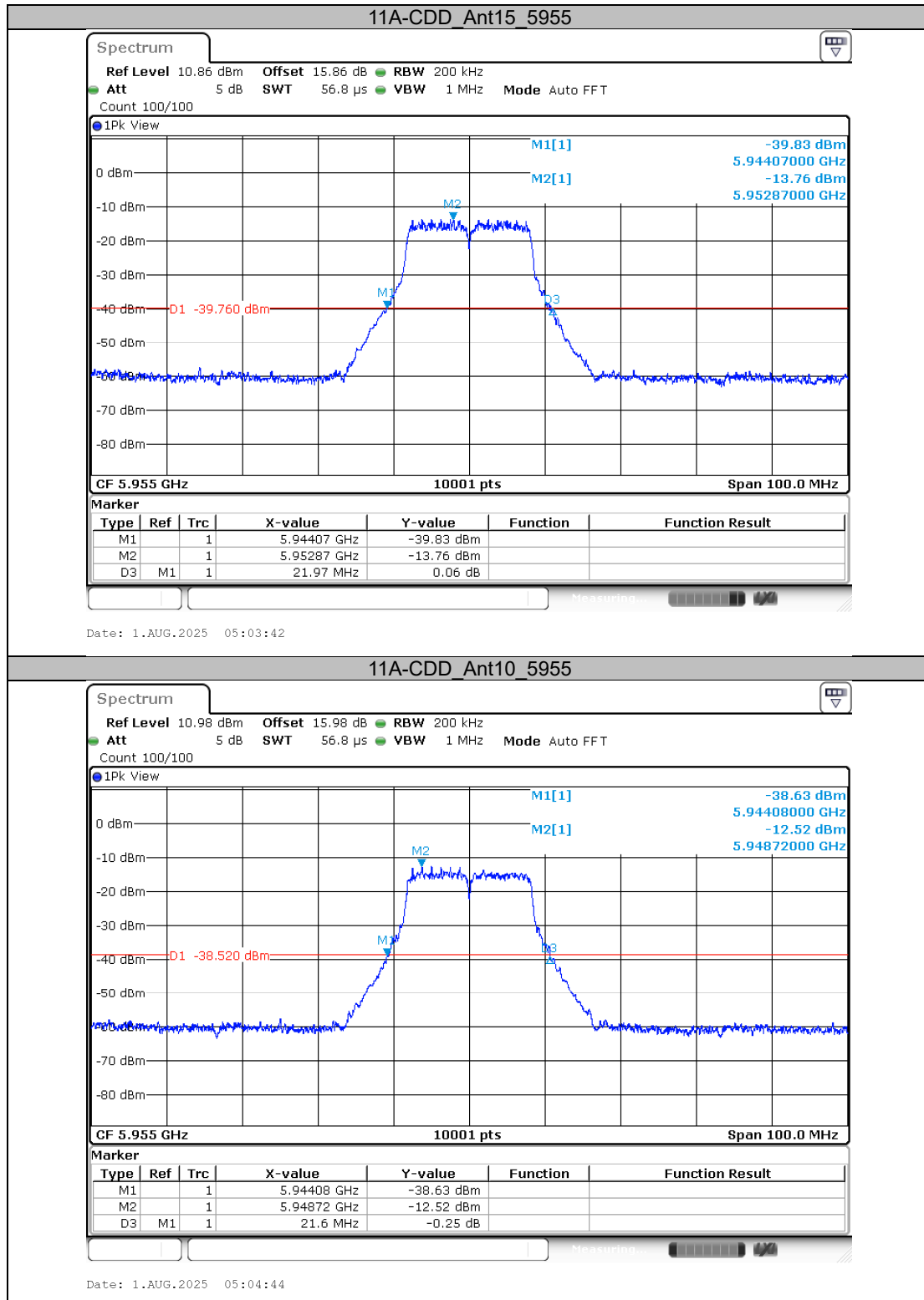
	Ant15	6685	43.40	6662.76	6706.16	≤320	PASS
	Ant10	6685	42.22	6663.82	6706.04	≤320	PASS
	Ant15	6845	43.34	6823.04	6866.38	≤320	PASS
	Ant10	6845	42.34	6823.88	6866.22	≤320	PASS
11BE80MIMO	Ant15	5985	82.48	5943.00	6025.48	≤320	PASS
	Ant10	5985	83.72	5943.92	6027.64	≤320	PASS
	Ant15	6145	85.16	6103.00	6188.16	≤320	PASS
	Ant10	6145	84.68	6101.60	6186.28	≤320	PASS
	Ant15	6385	83.80	6342.64	6426.44	≤320	PASS
	Ant10	6385	83.88	6342.96	6426.84	≤320	PASS
	Ant15	6625	83.84	6582.96	6666.80	≤320	PASS
	Ant10	6625	85.88	6583.04	6668.92	≤320	PASS
	Ant15	6705	82.88	6663.20	6746.08	≤320	PASS
	Ant10	6705	84.80	6662.64	6747.44	≤320	PASS
	Ant15	6785	84.04	6742.76	6826.80	≤320	PASS
	Ant10	6785	84.08	6742.68	6826.76	≤320	PASS
11BE160MIMO	Ant15	6025	176.32	5937.16	6113.48	≤320	PASS
	Ant10	6025	174.00	5938.20	6112.20	≤320	PASS
	Ant15	6185	176.32	6095.72	6272.04	≤320	PASS
	Ant10	6185	174.32	6097.00	6271.32	≤320	PASS
	Ant15	6345	177.04	6255.32	6432.36	≤320	PASS
	Ant10	6345	176.96	6256.12	6433.08	≤320	PASS
	Ant15	6665	176.56	6577.80	6754.36	≤320	PASS
	Ant10	6665	173.76	6578.68	6752.44	≤320	PASS
11BE320MIMO	Ant15	6105	347.20	5932.52	6279.72	---	---
	Ant10	6105	348.16	5928.52	6276.68	---	---
	Ant15	6265	346.40	6089.96	6436.36	---	---
	Ant10	6265	348.32	6089.64	6437.96	---	---

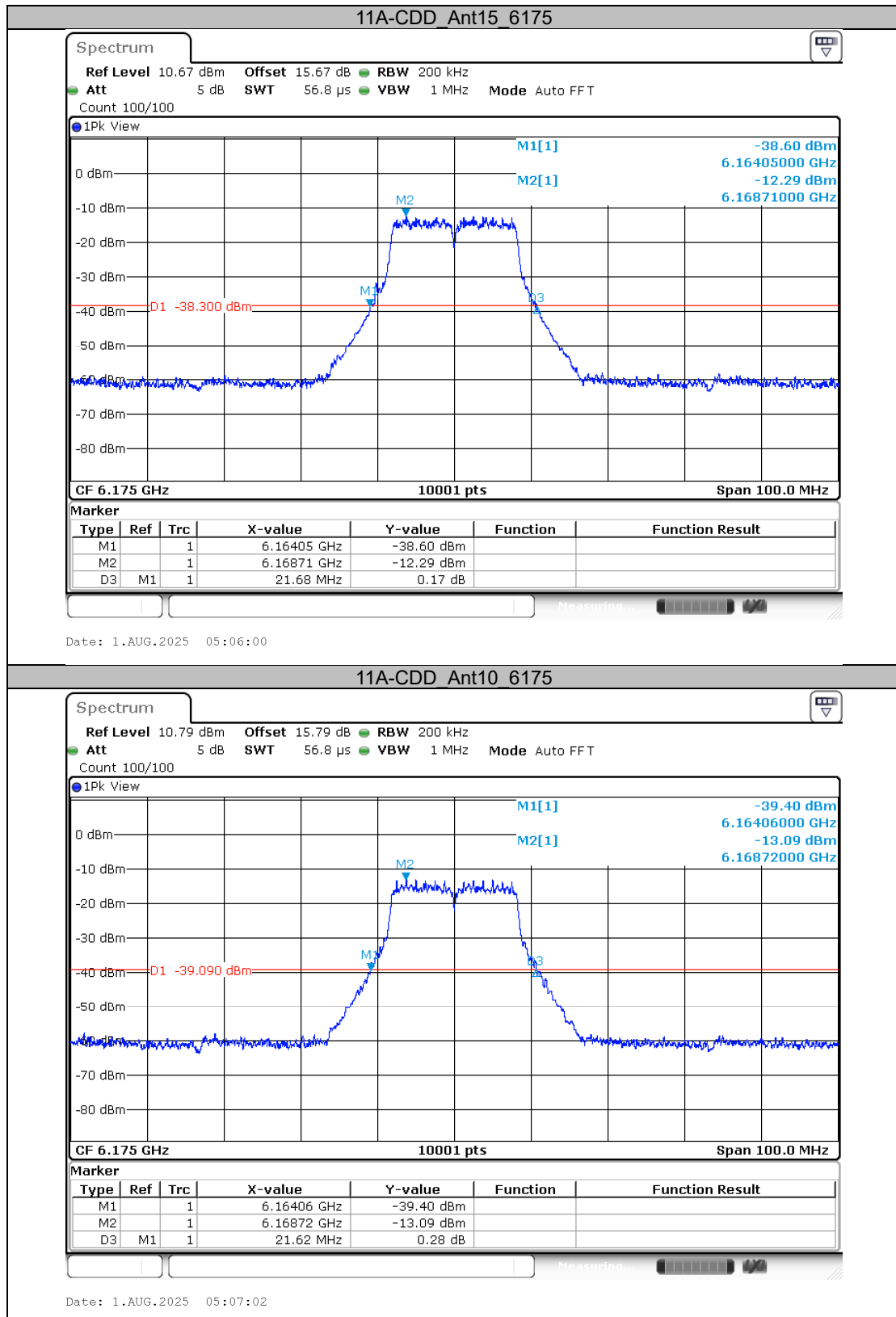
Note1: For channels with a nominal bandwidth of 320MHz, compliance is demonstrated by way of the 99%BW.

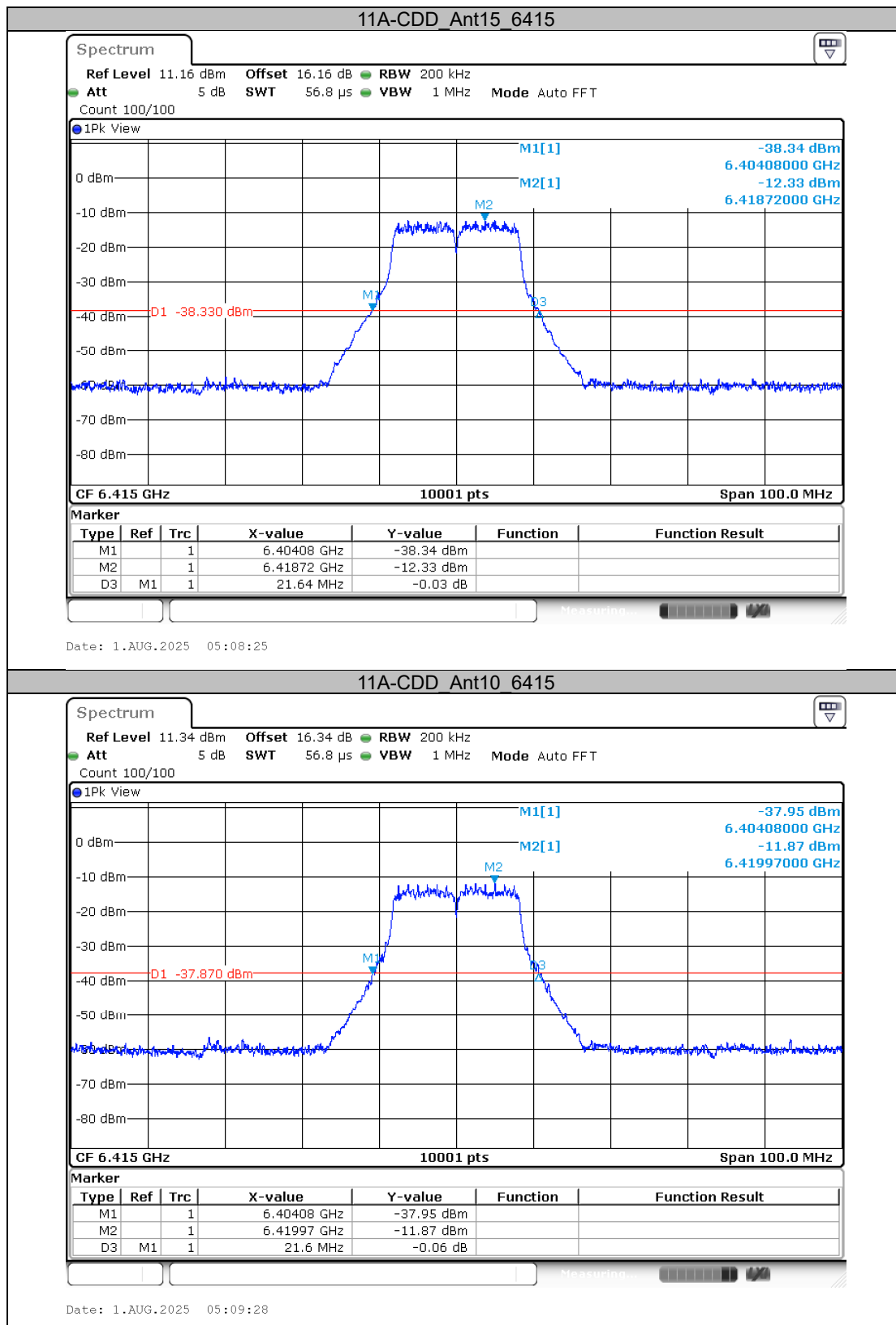
Note2: For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz), compliance is demonstrated by way of the 26dB EBW.

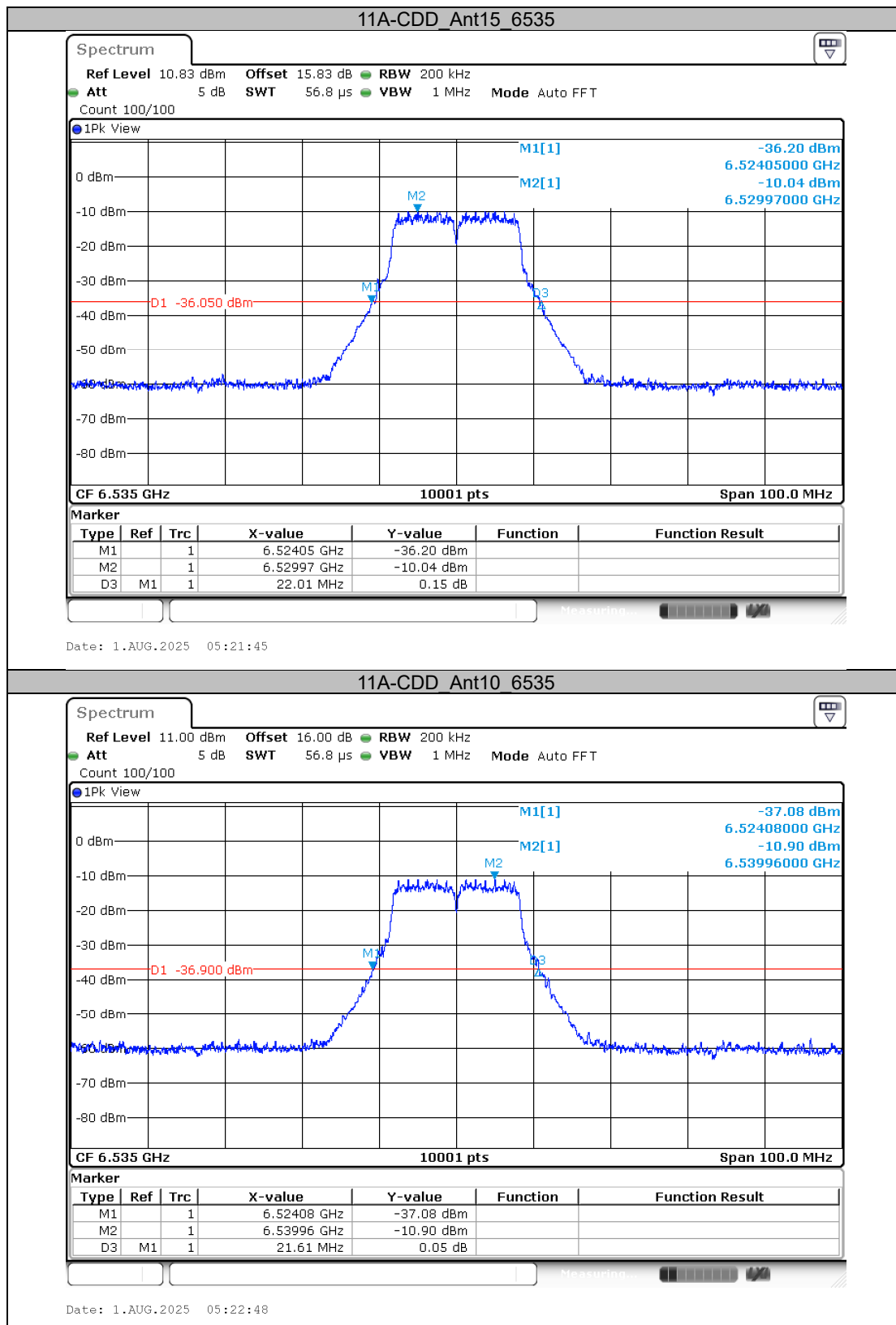


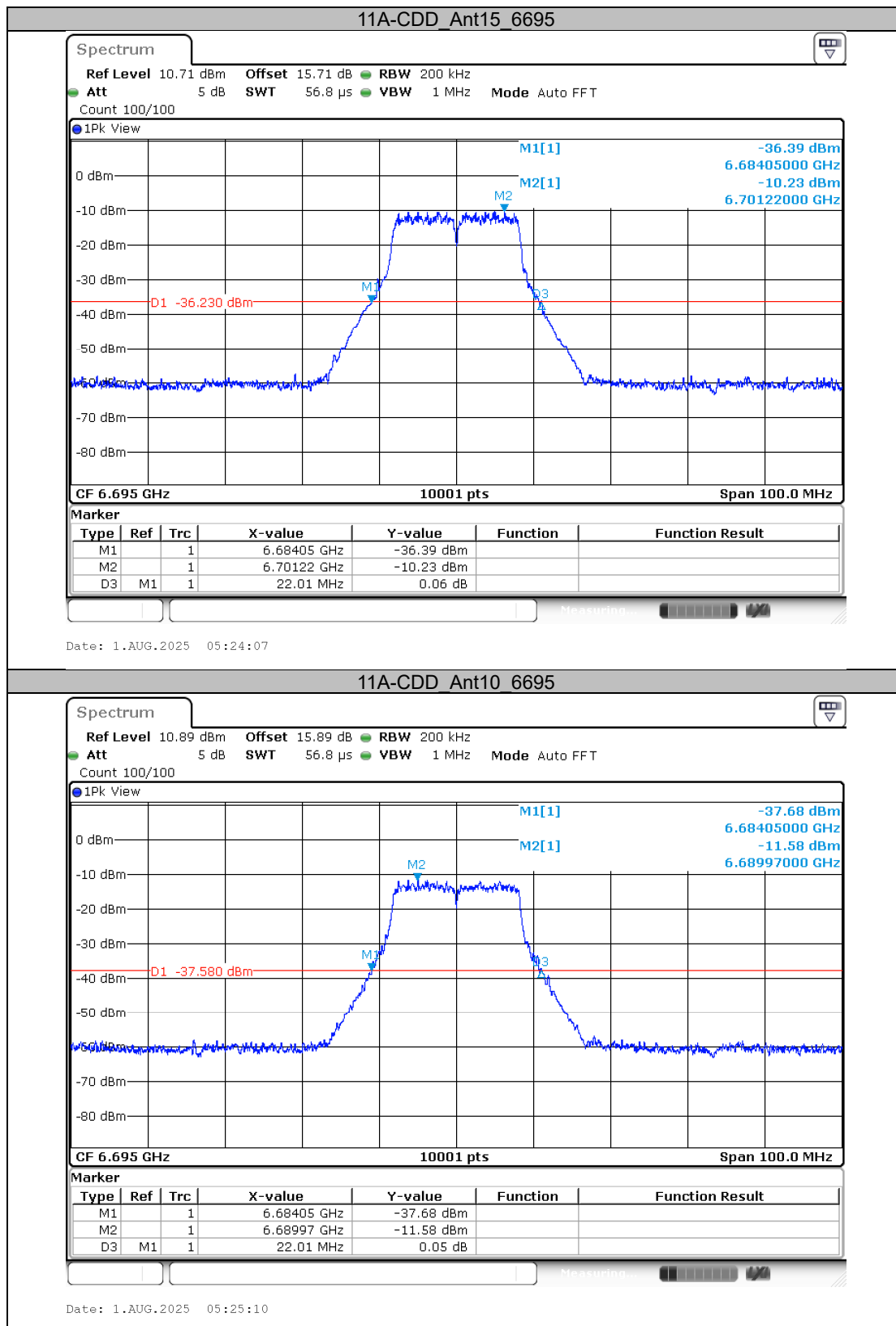
Test Graphs

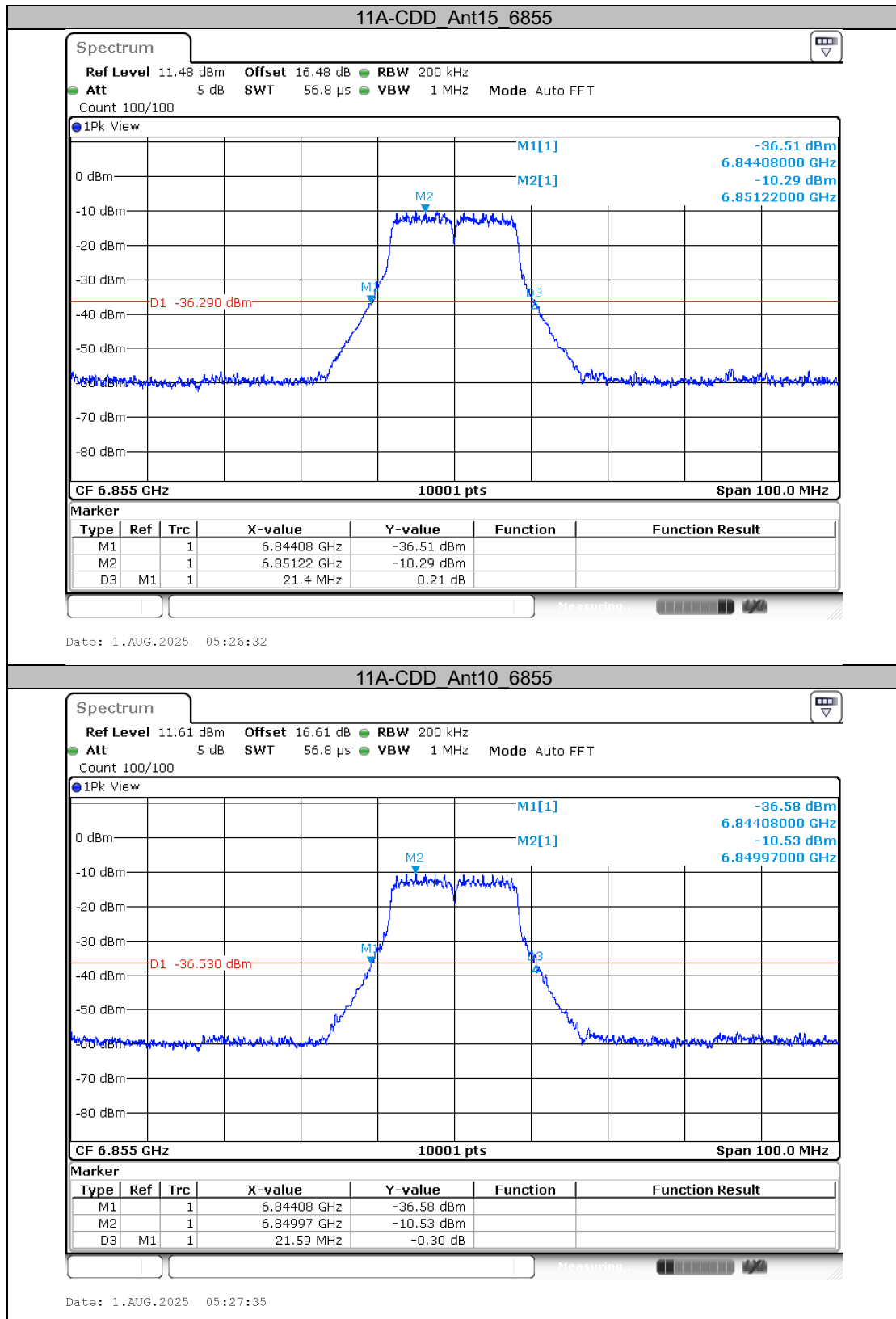


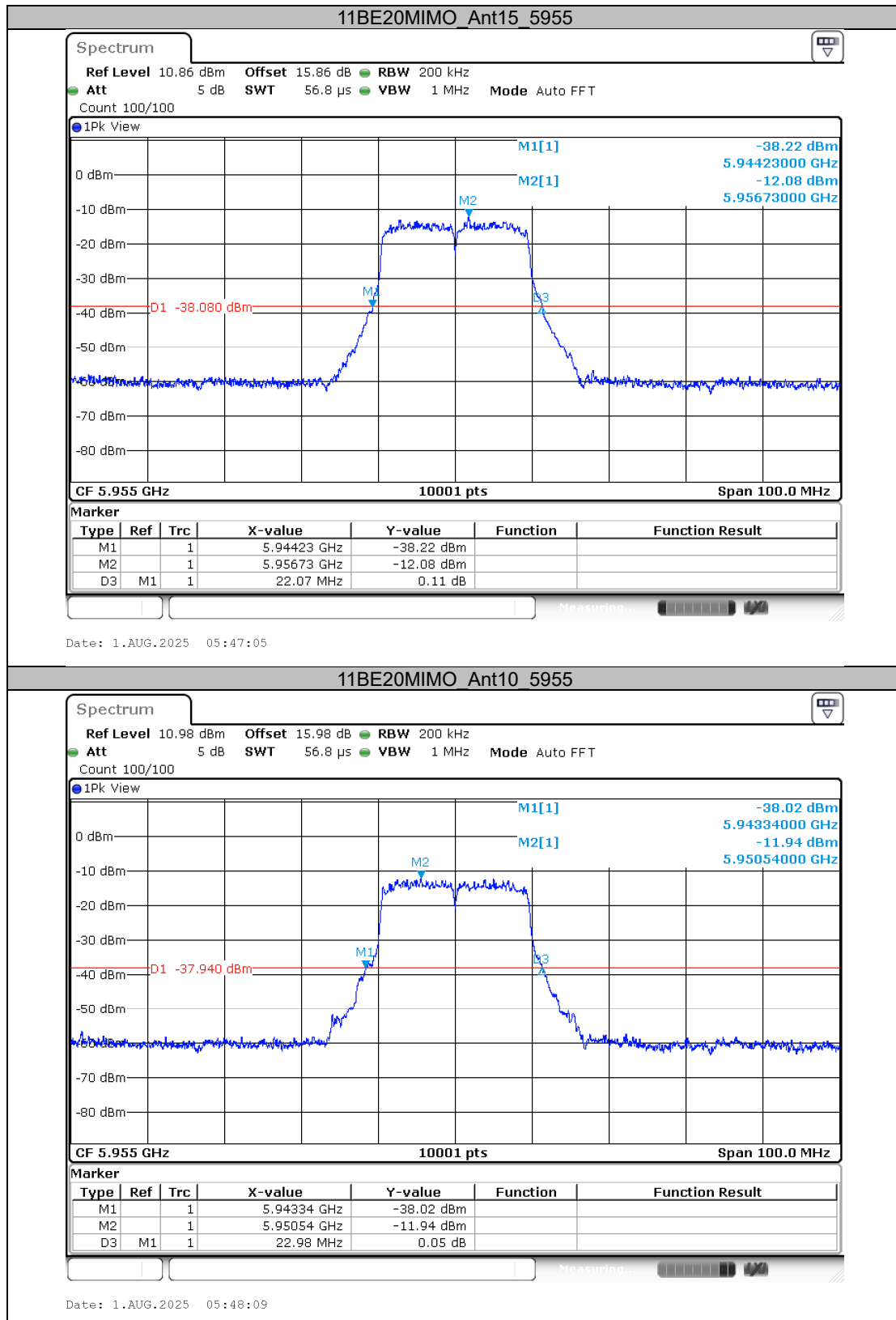


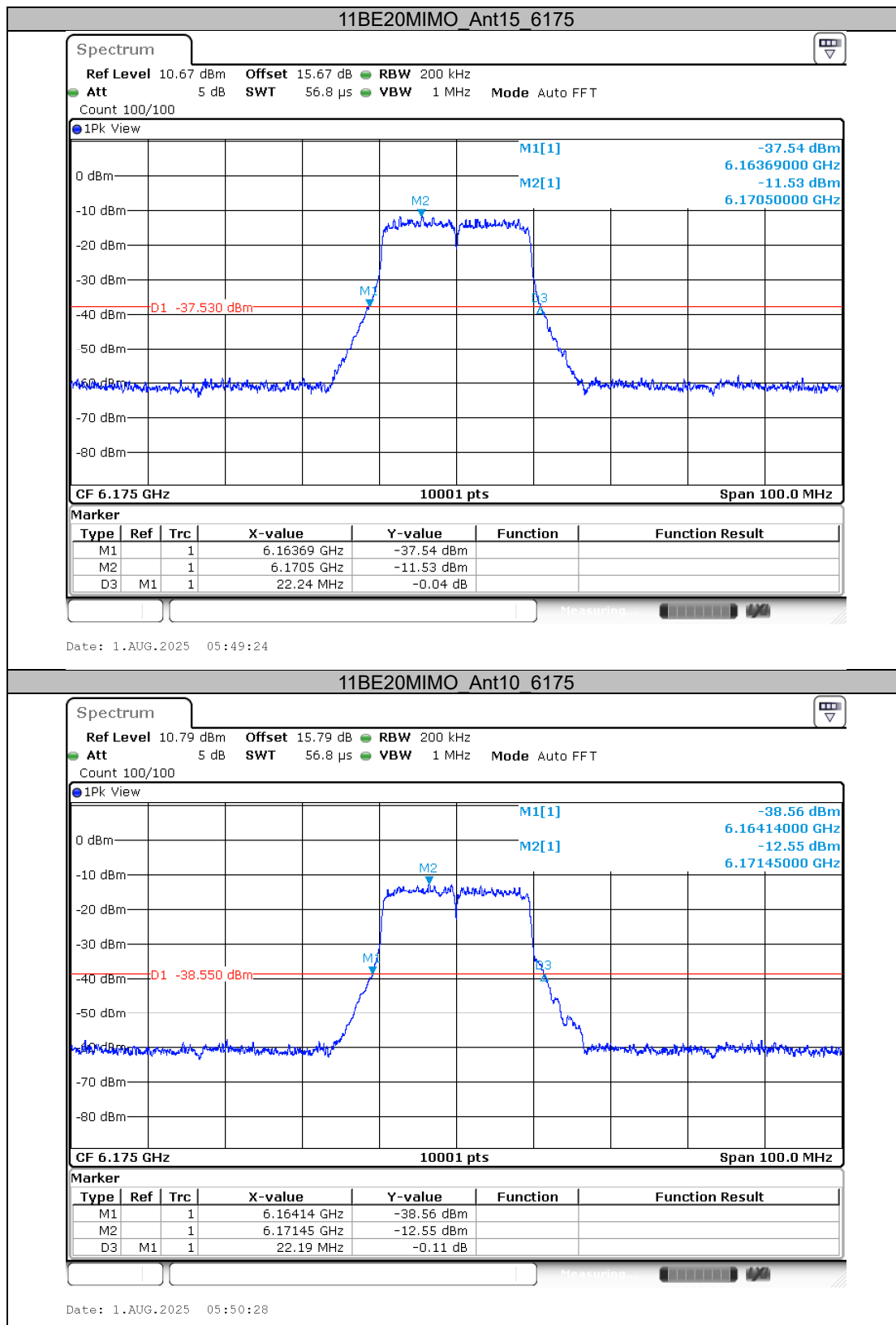


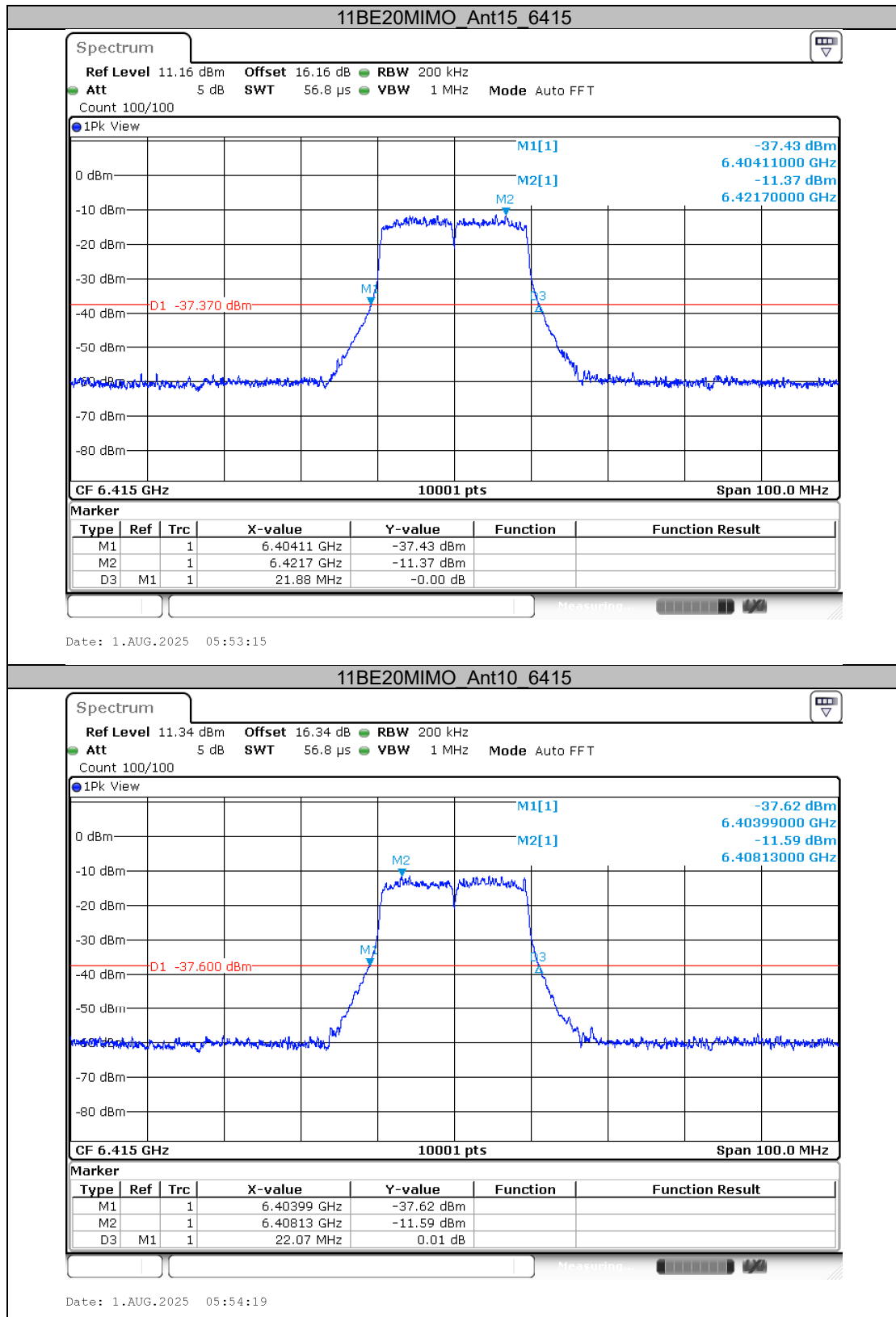


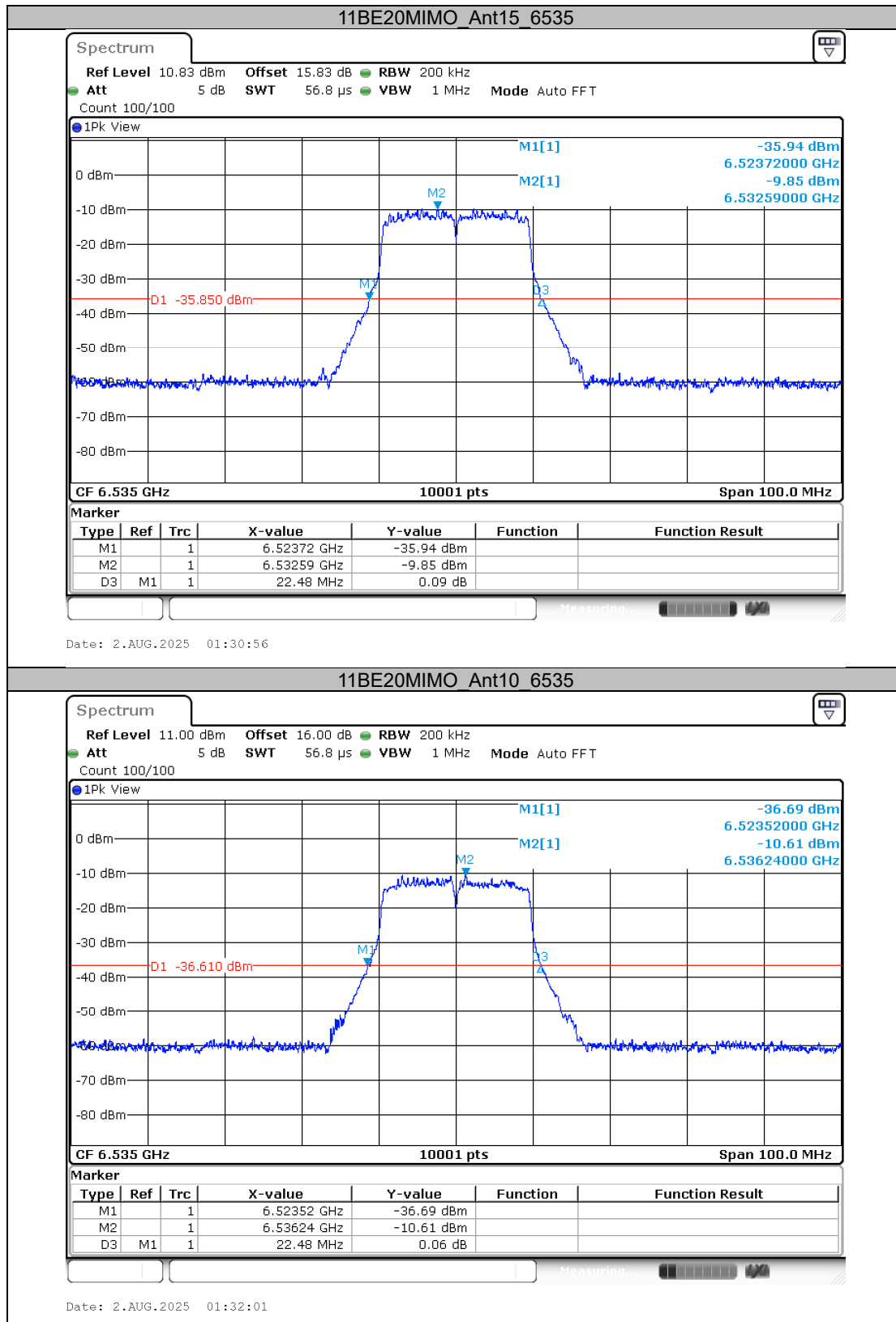


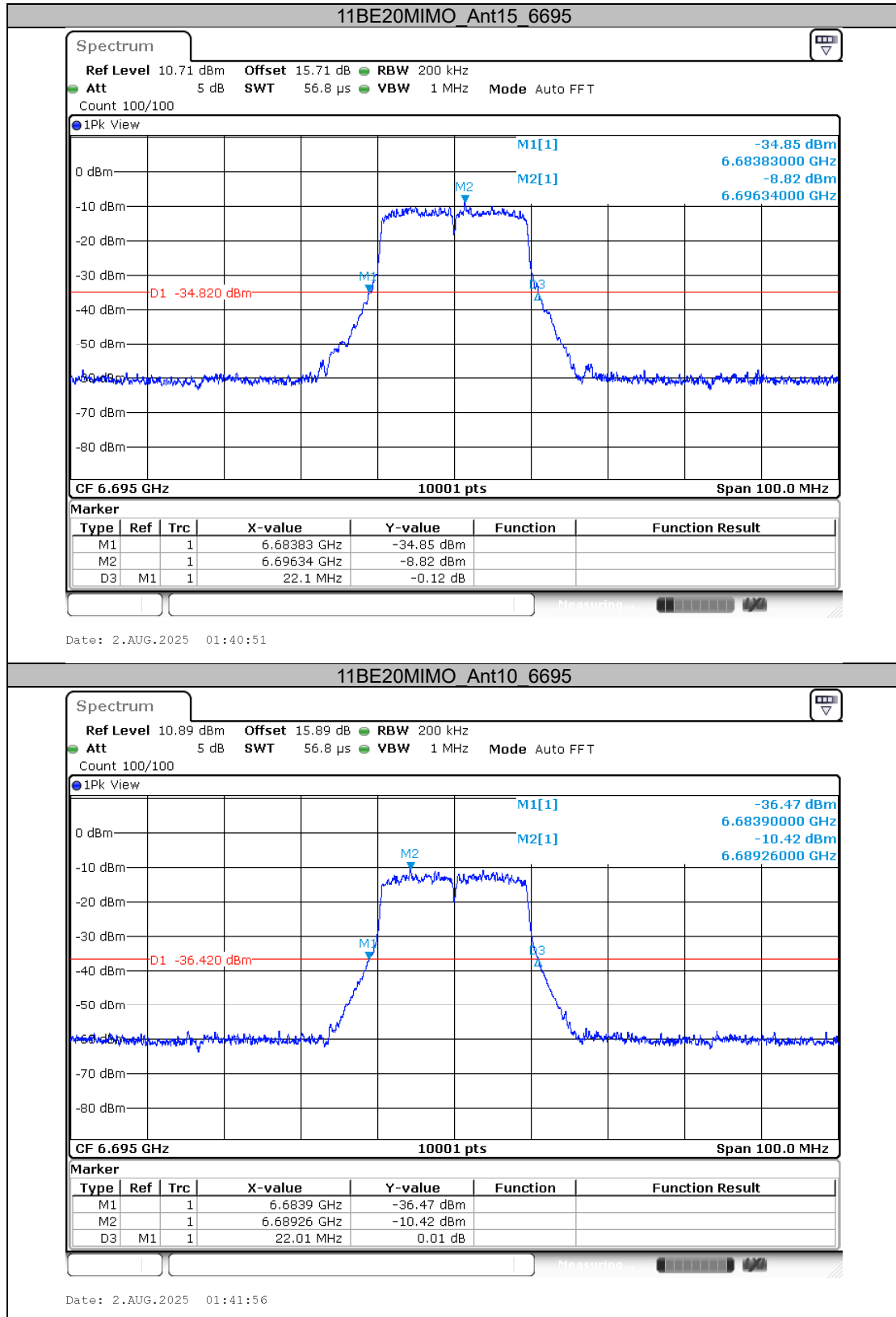


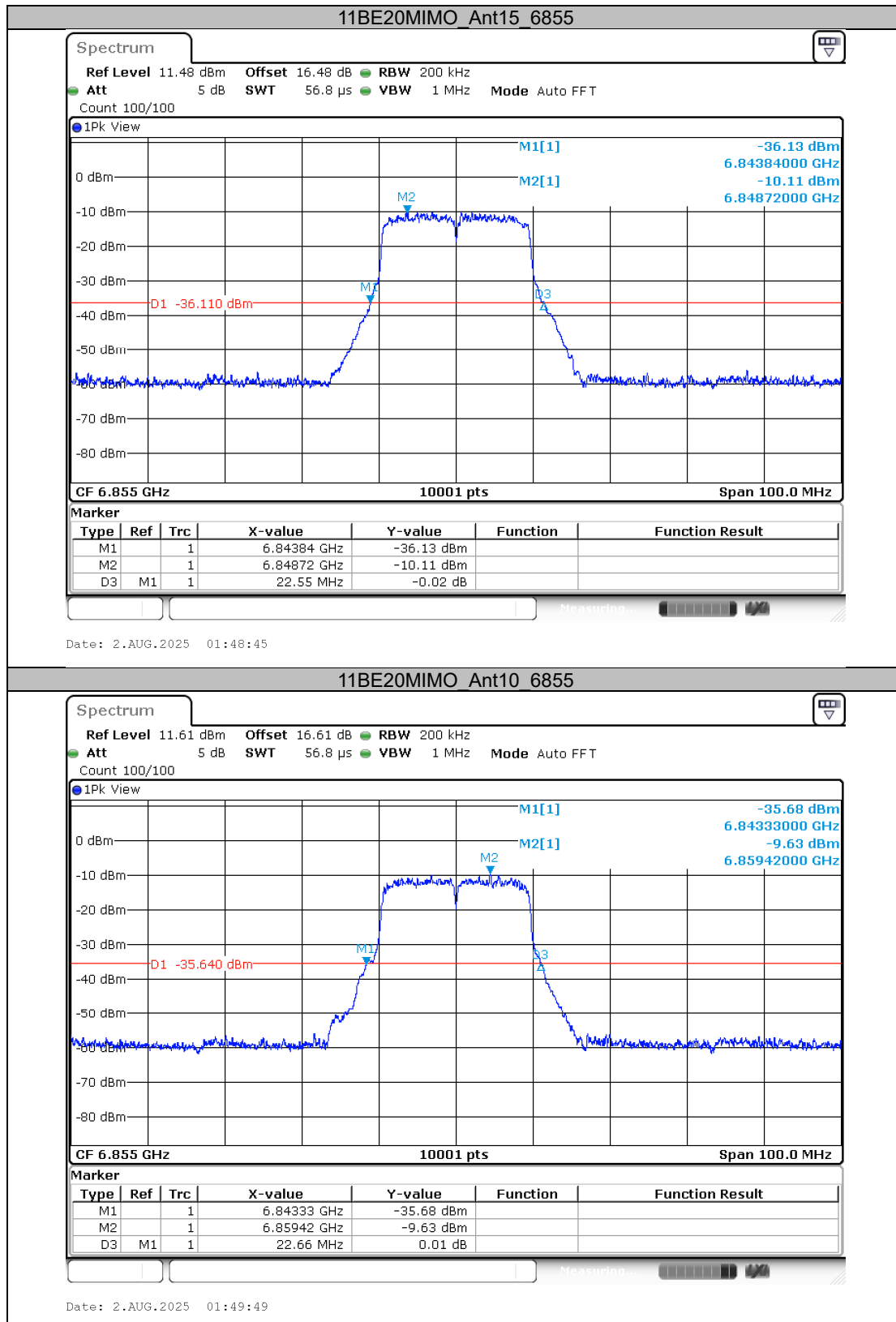


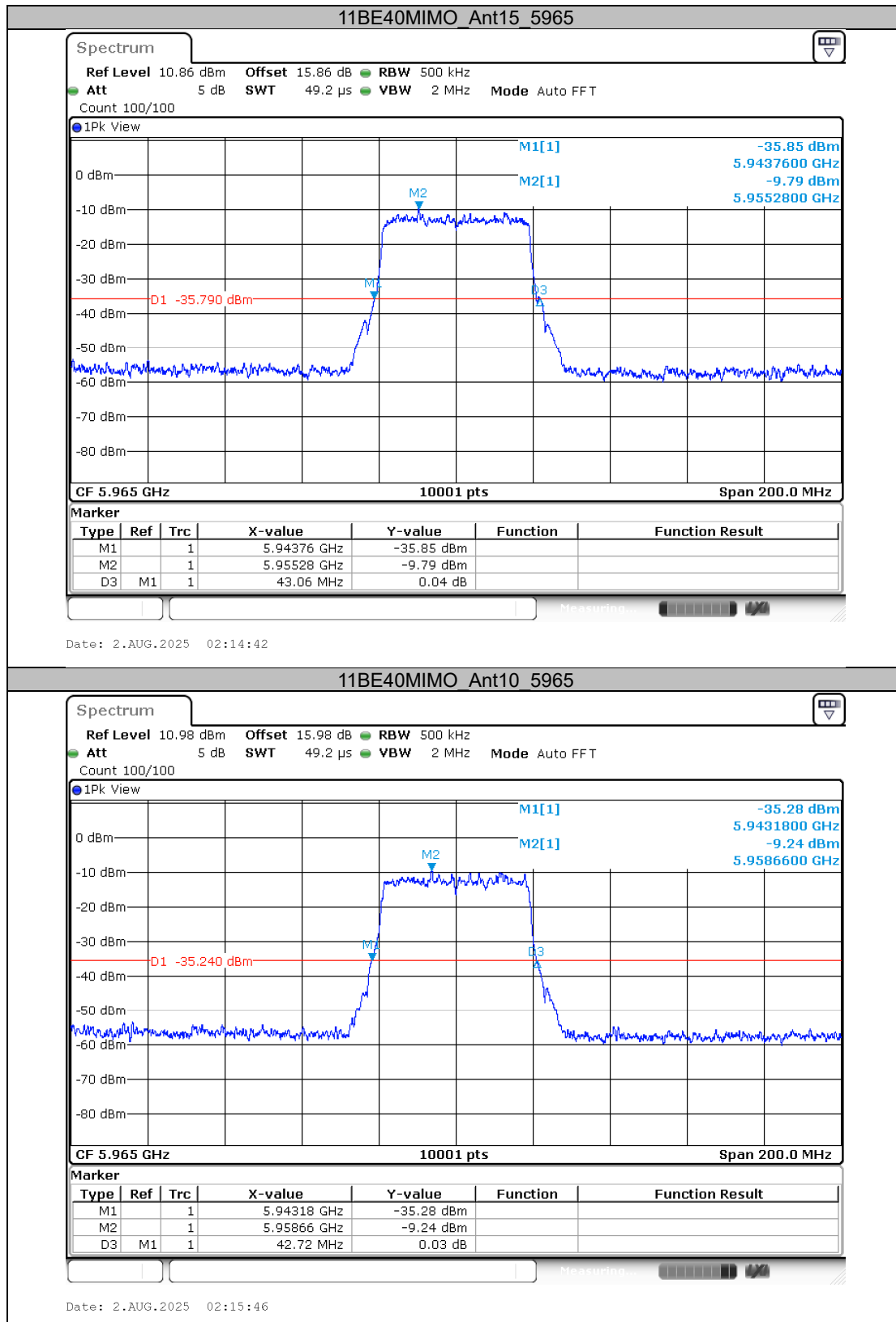


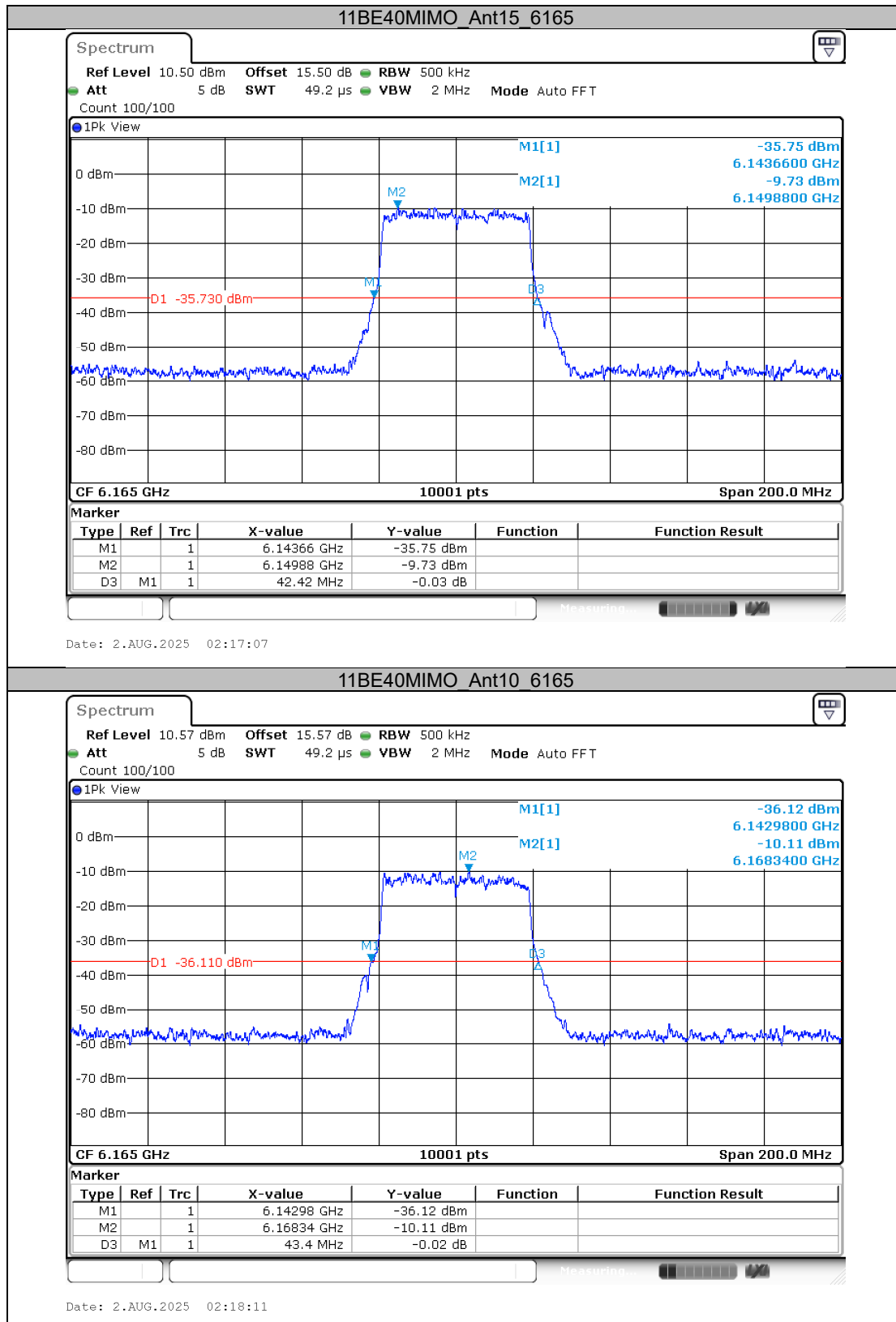


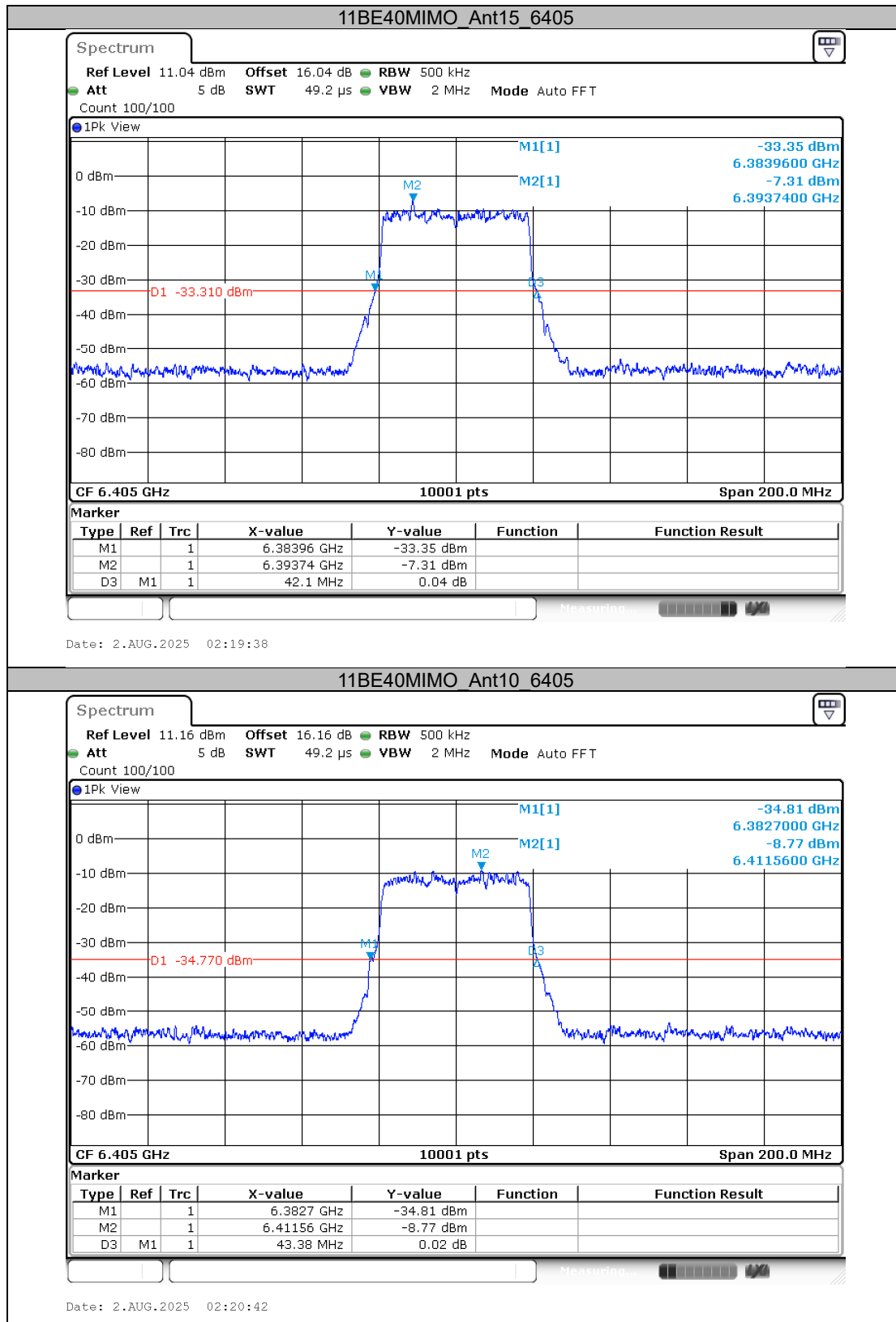


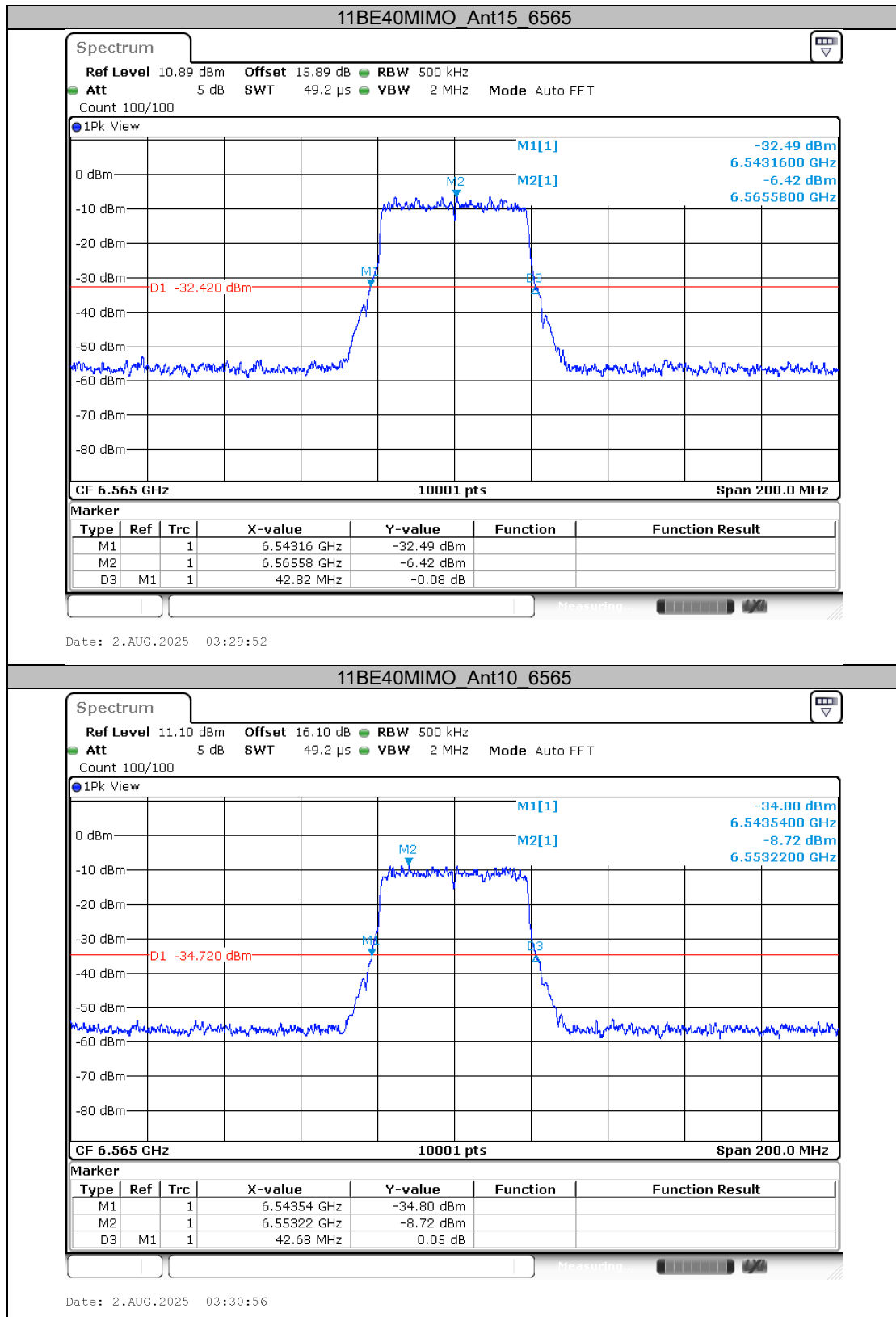


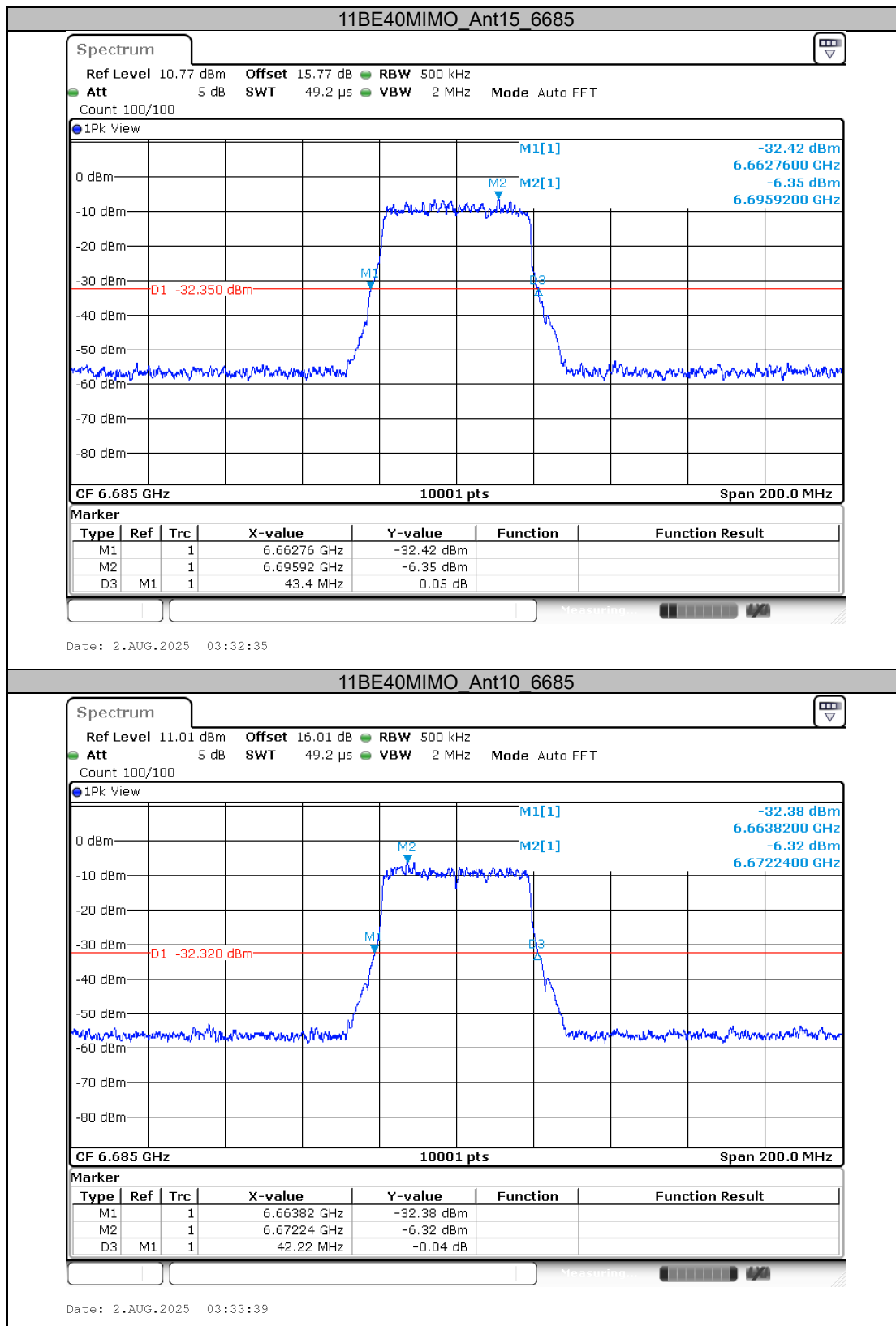


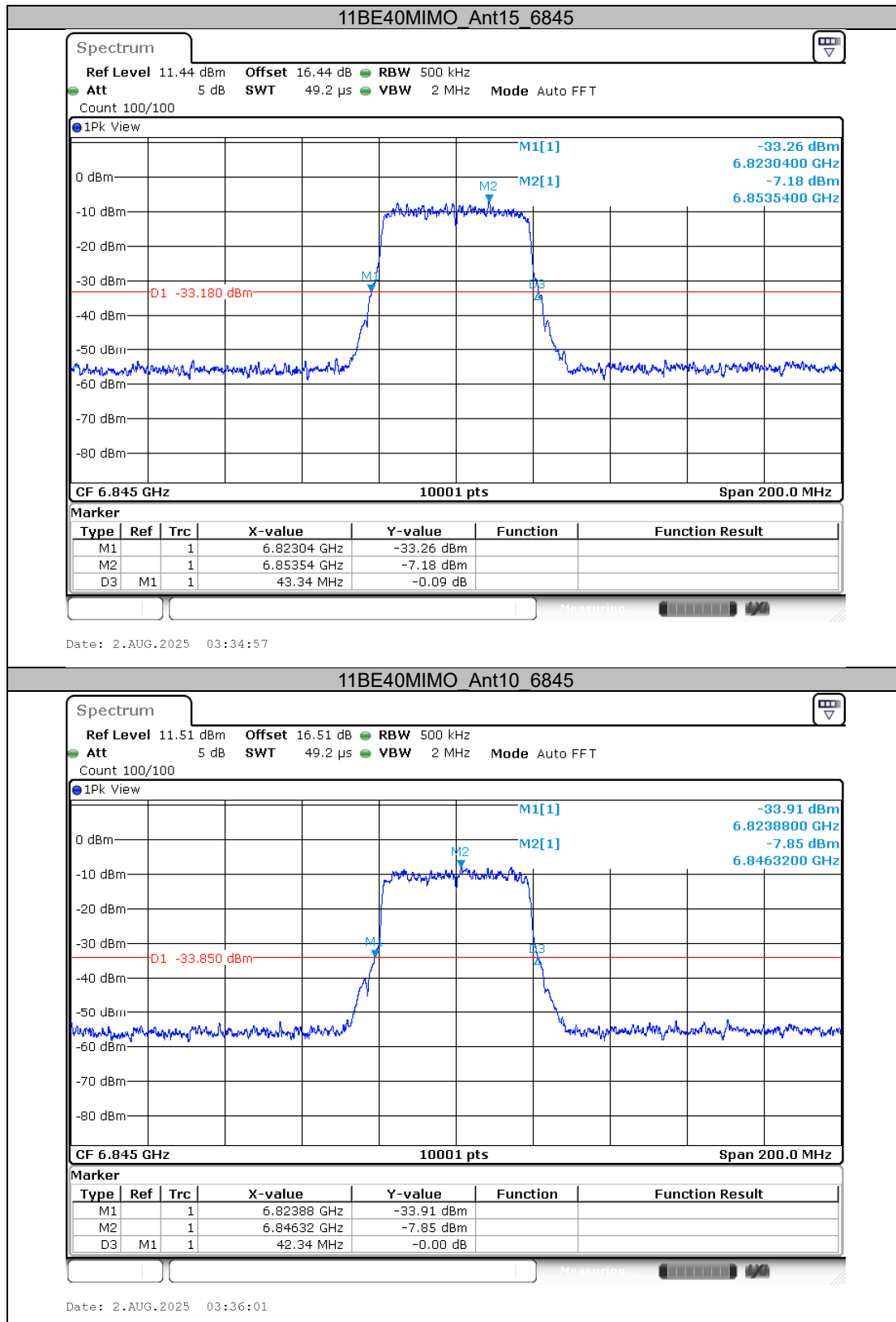


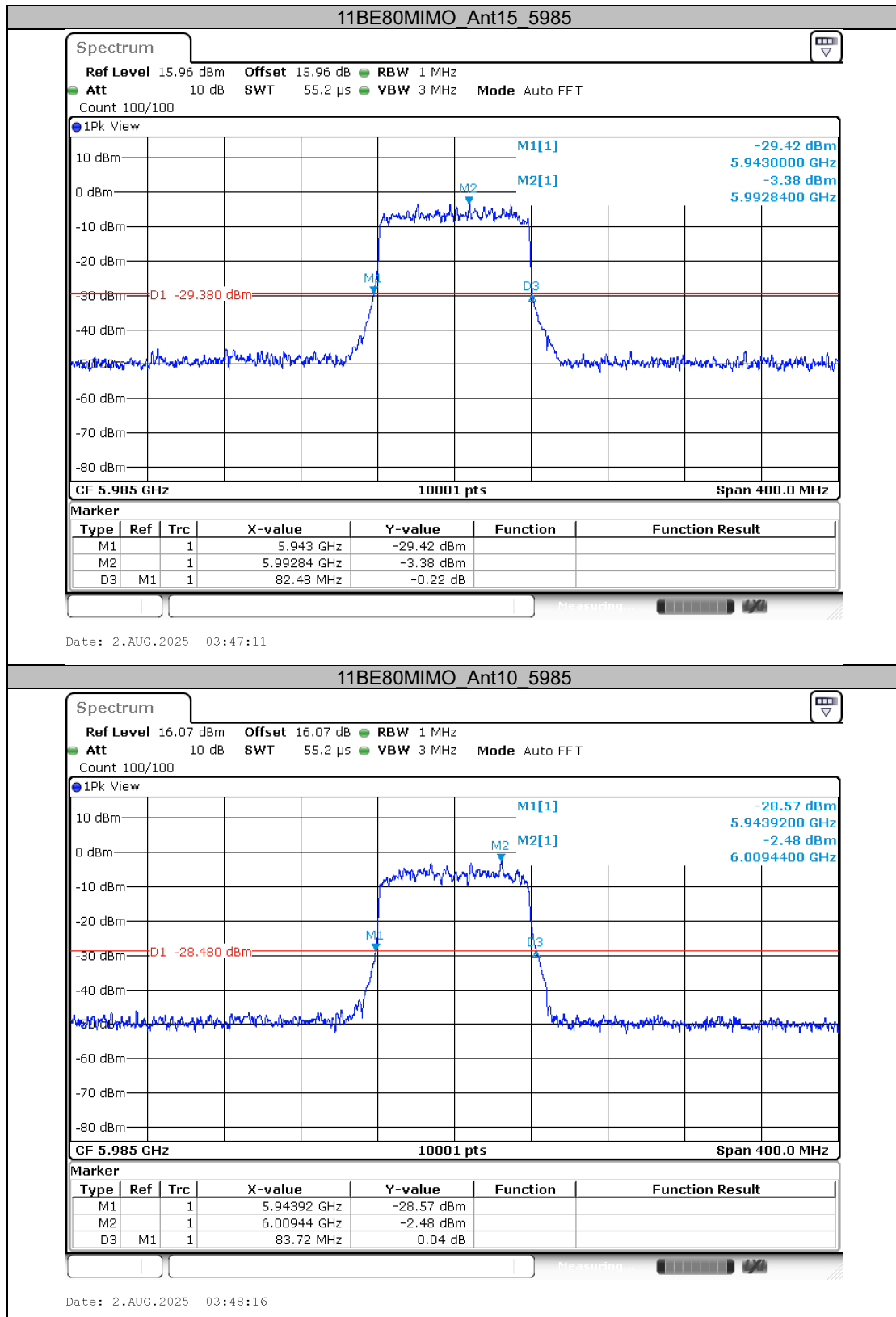


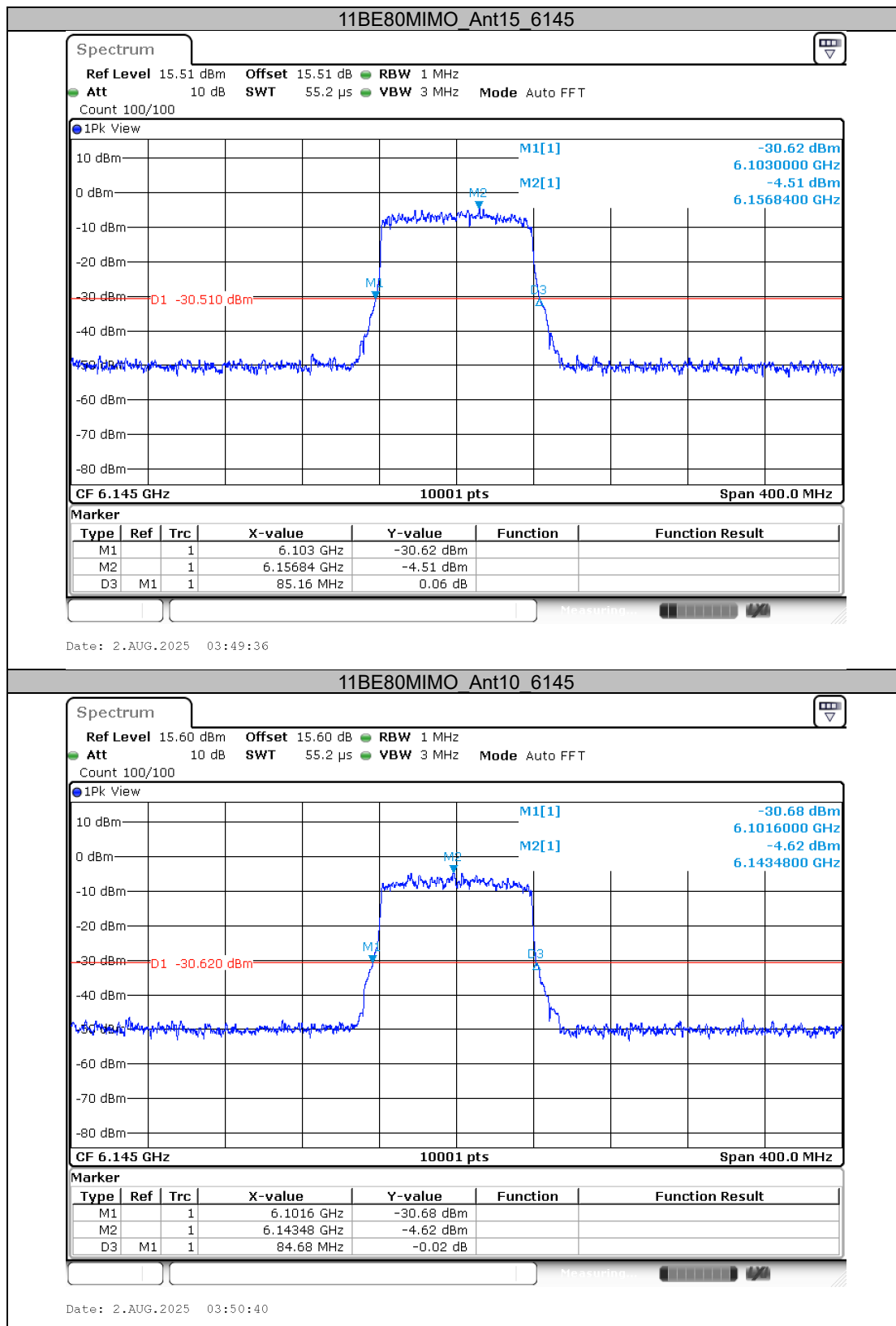


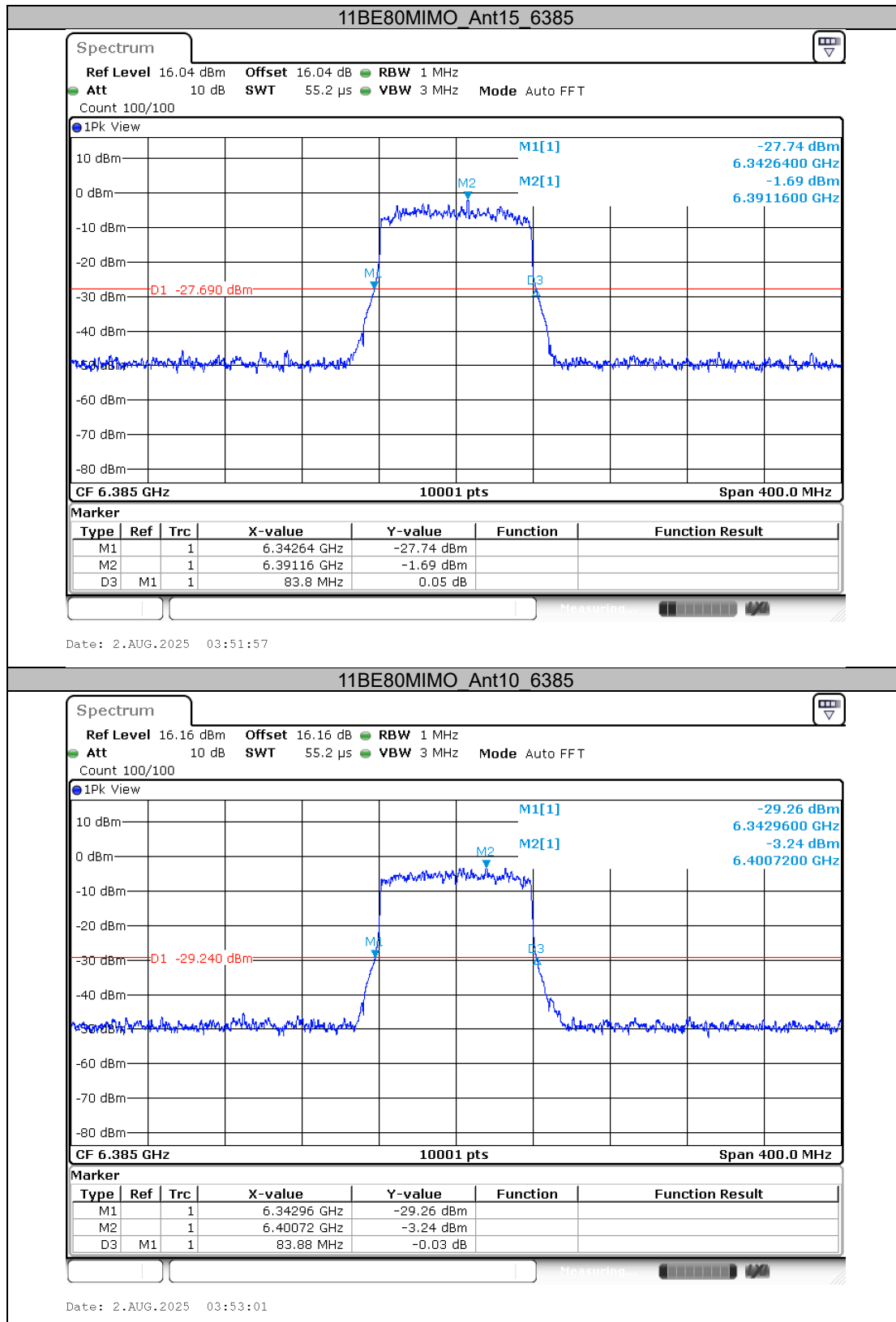


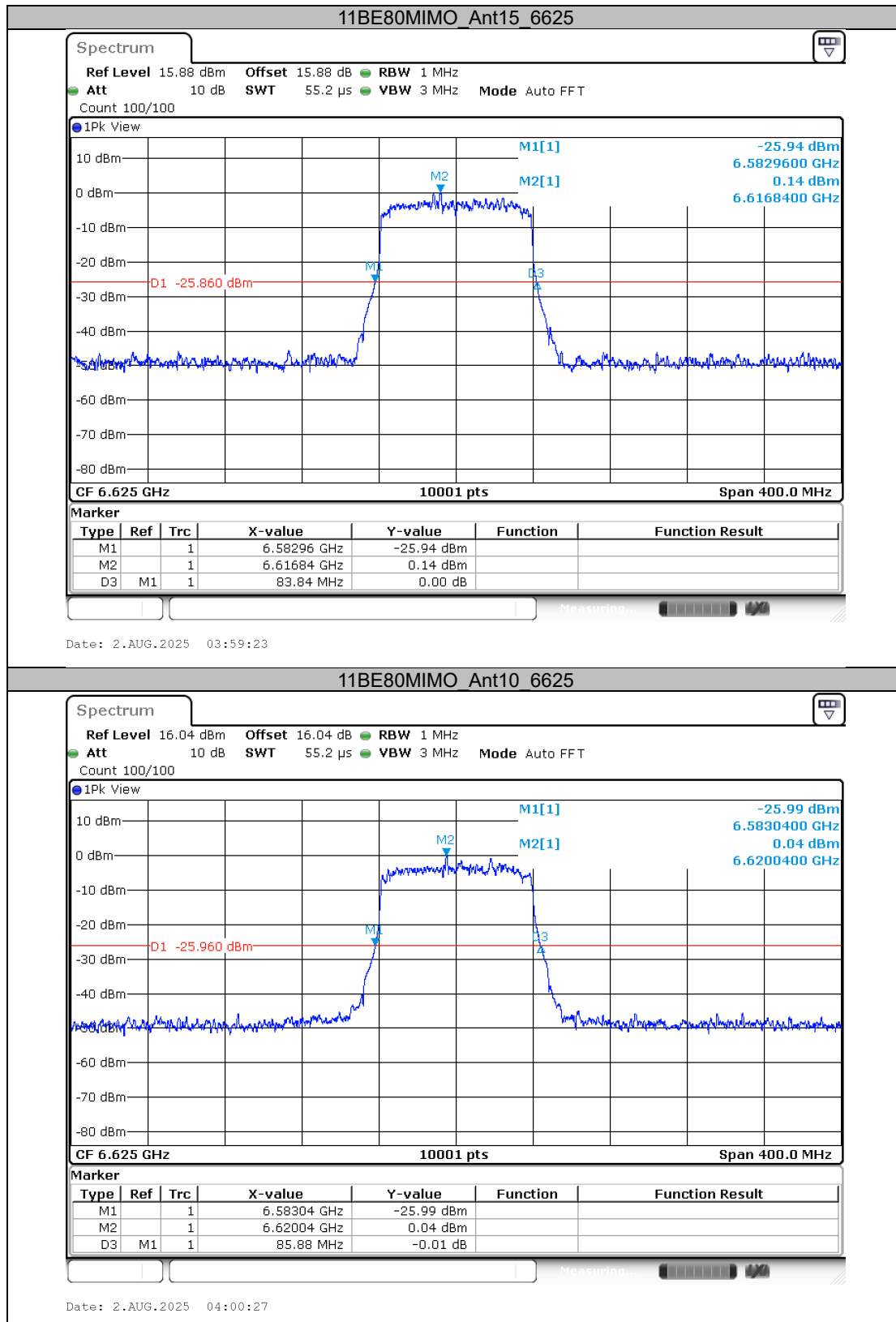


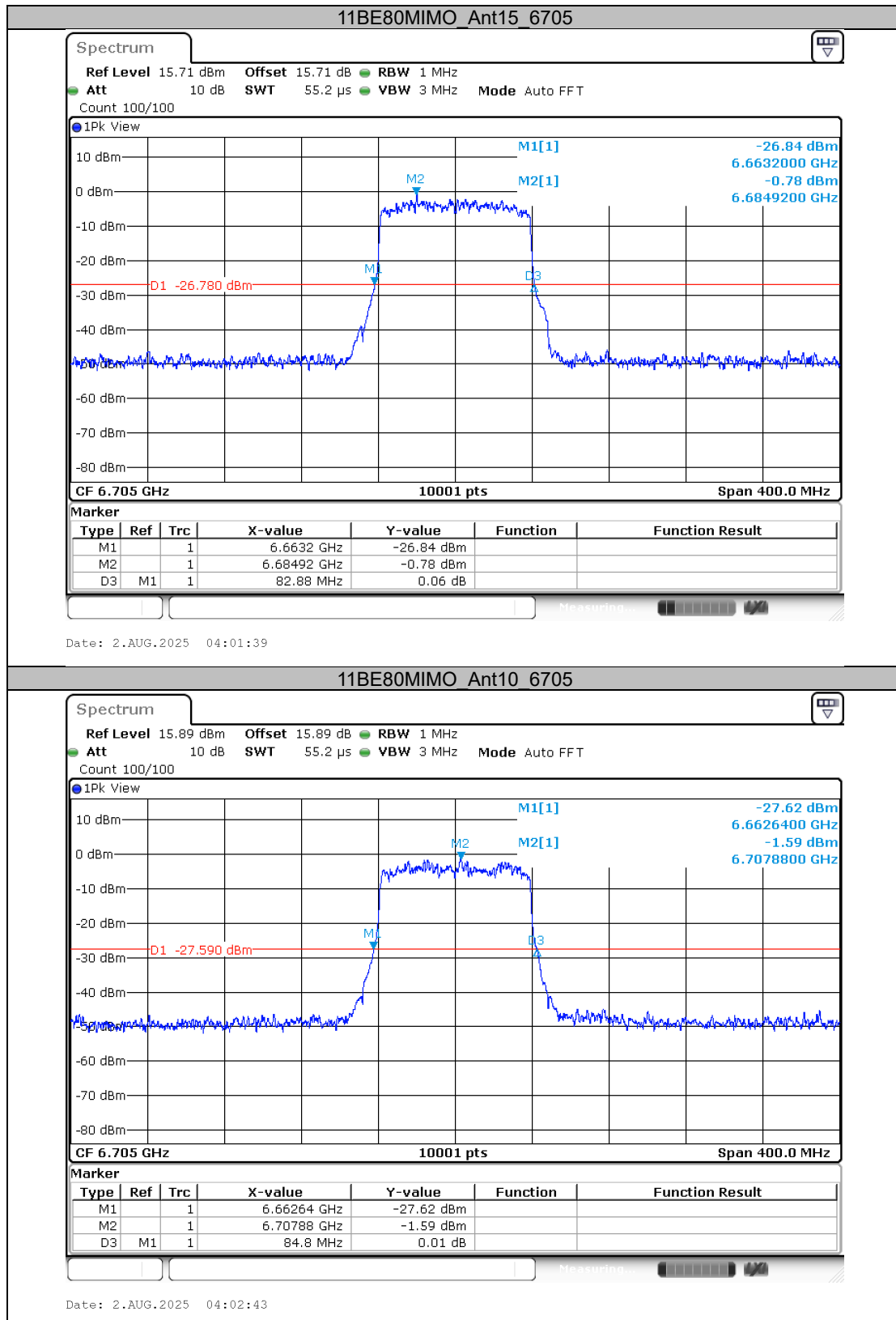


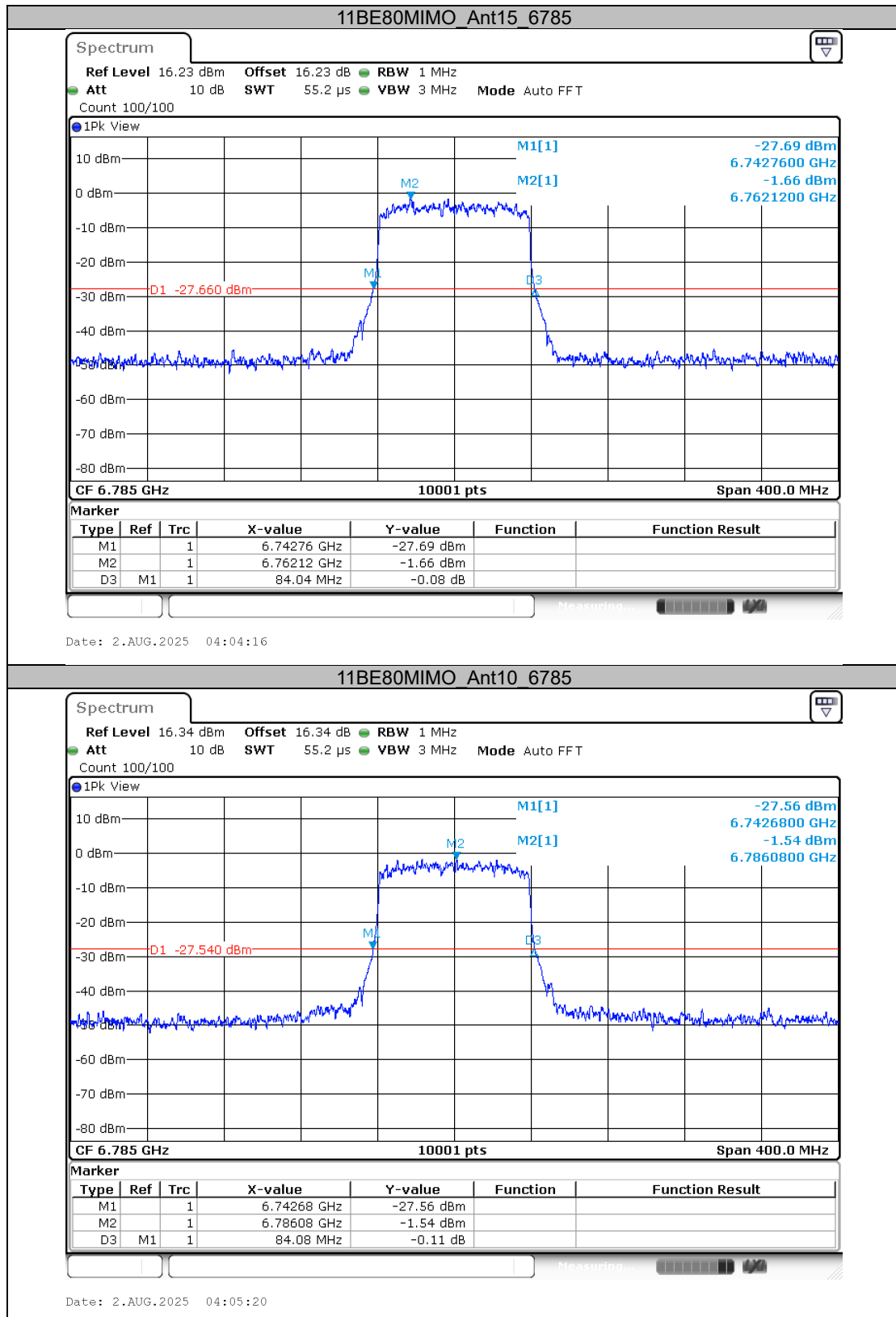


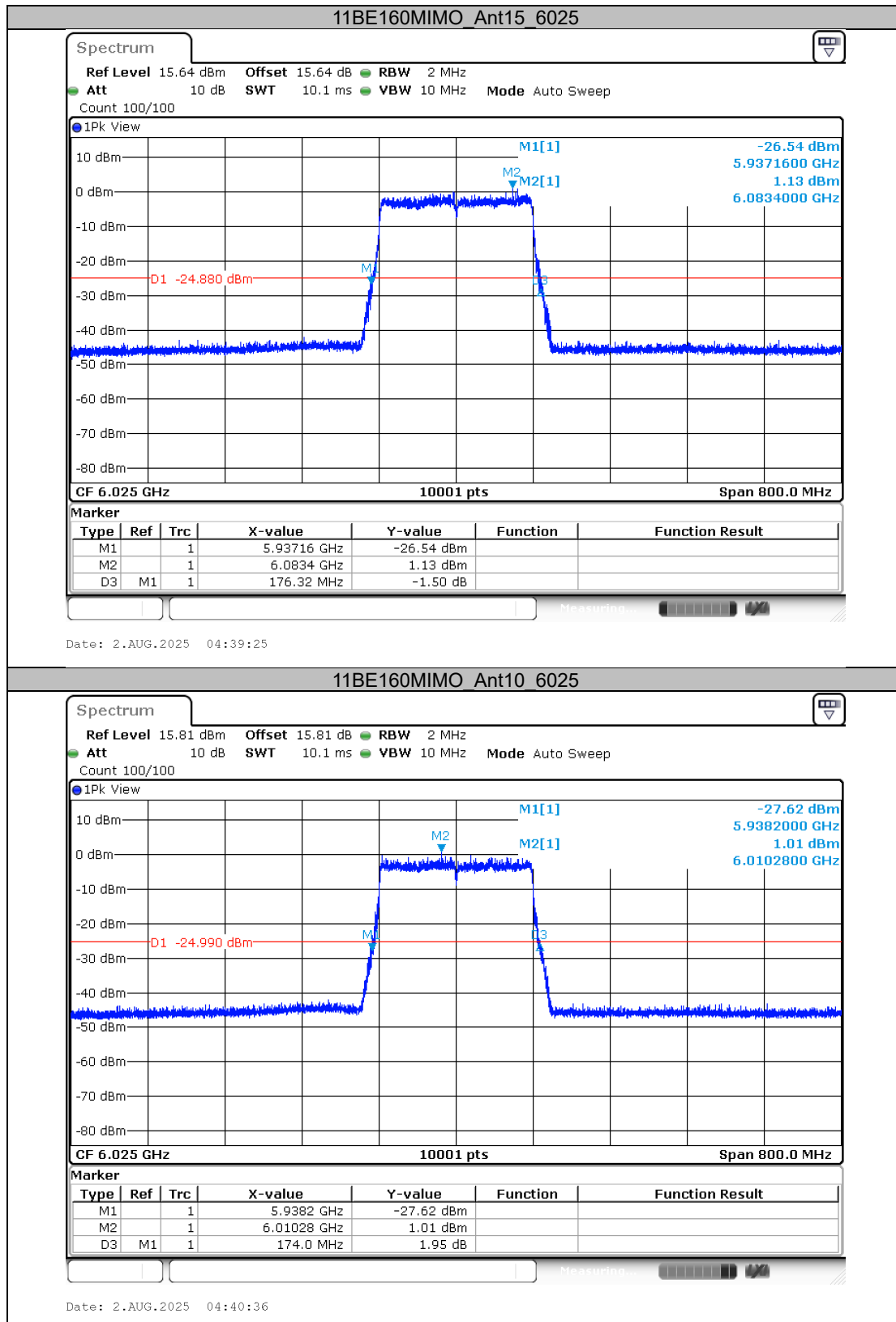


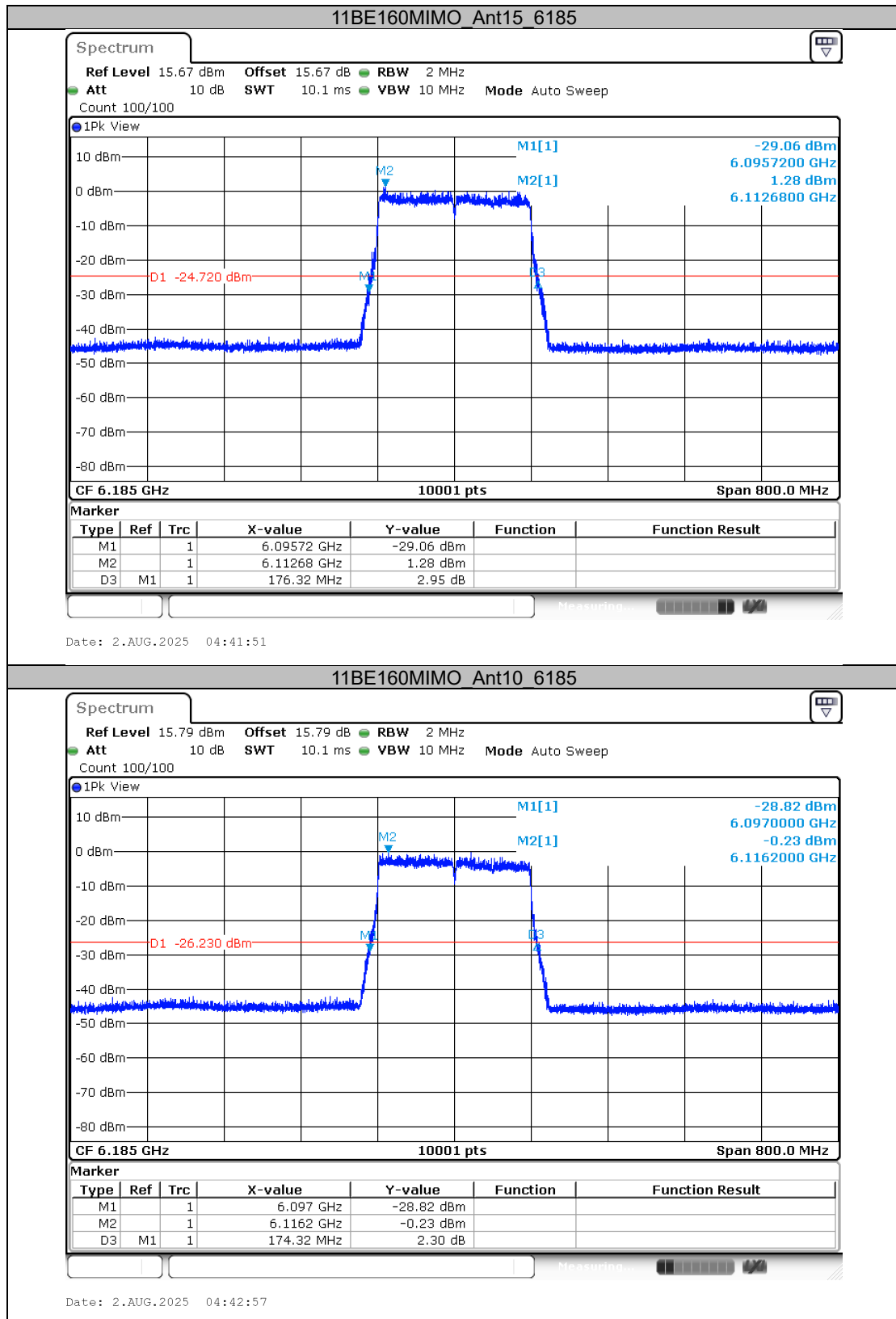


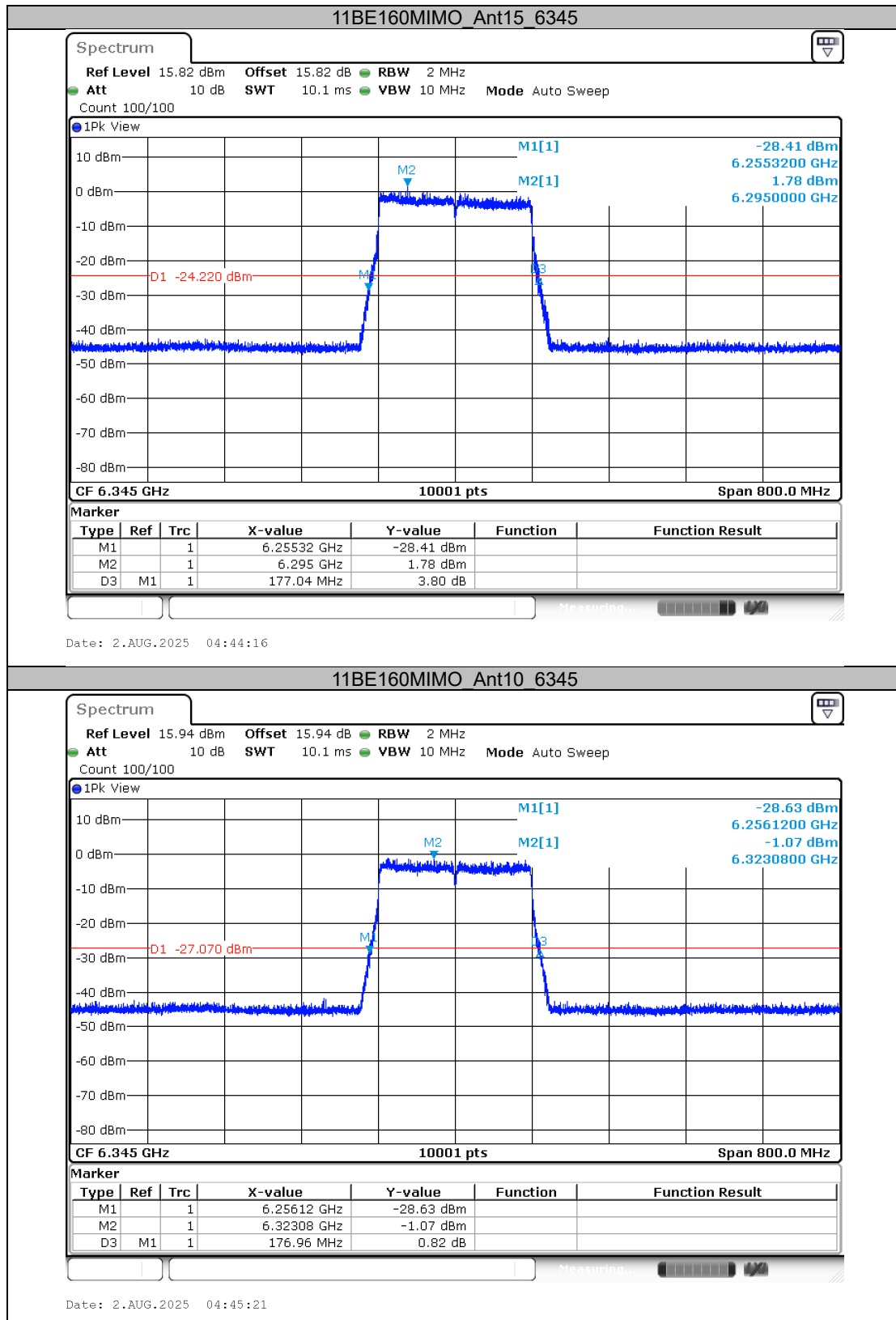


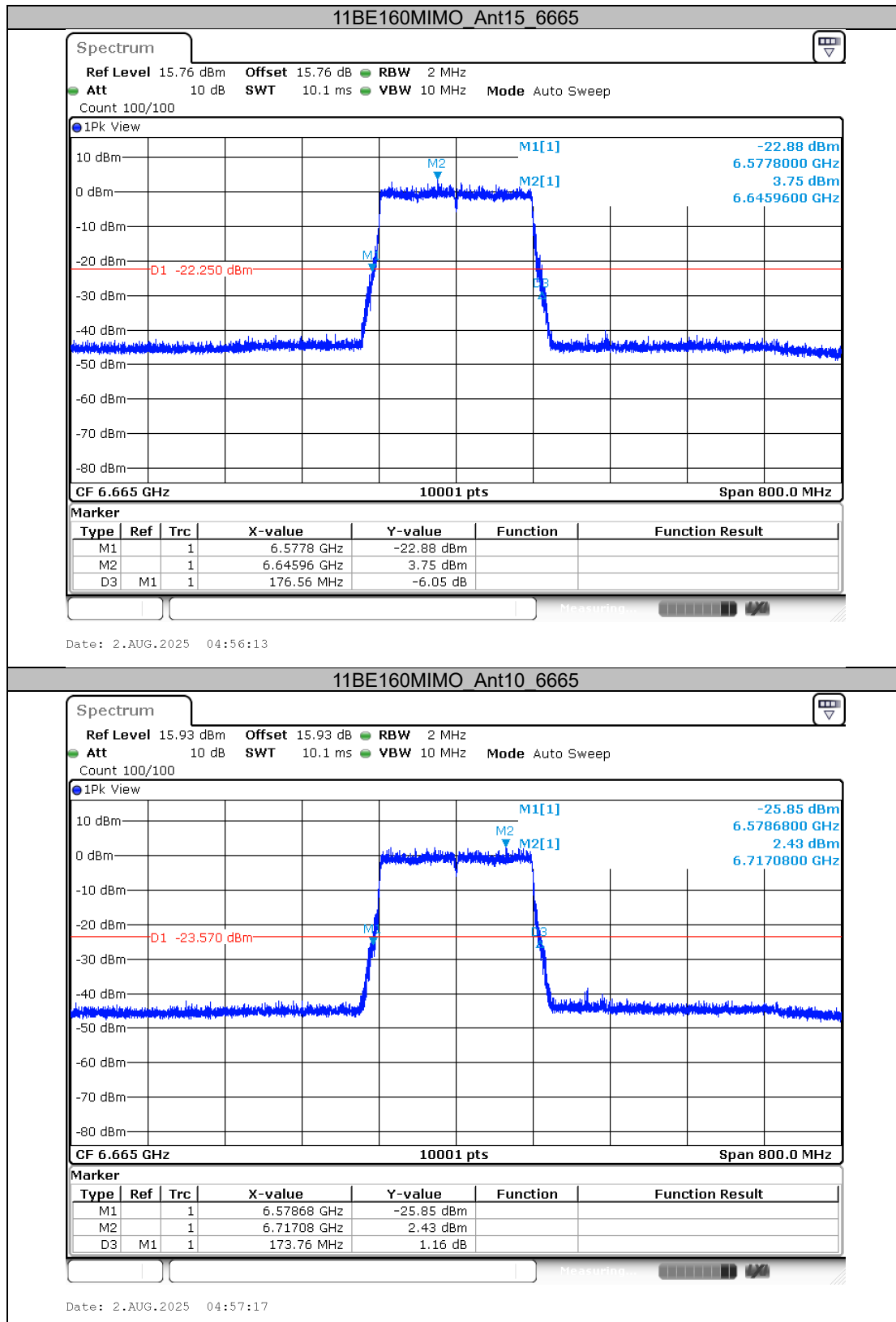


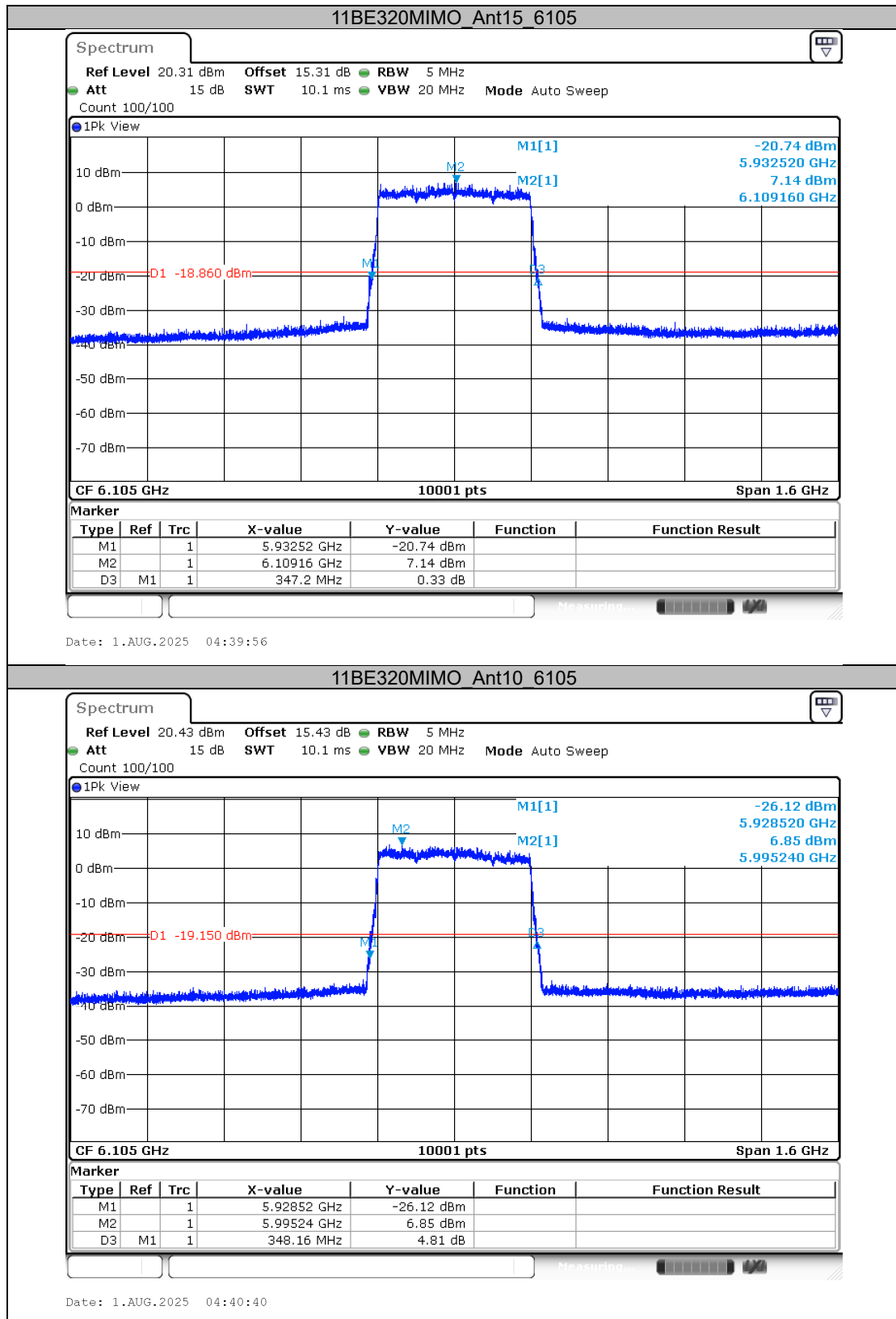


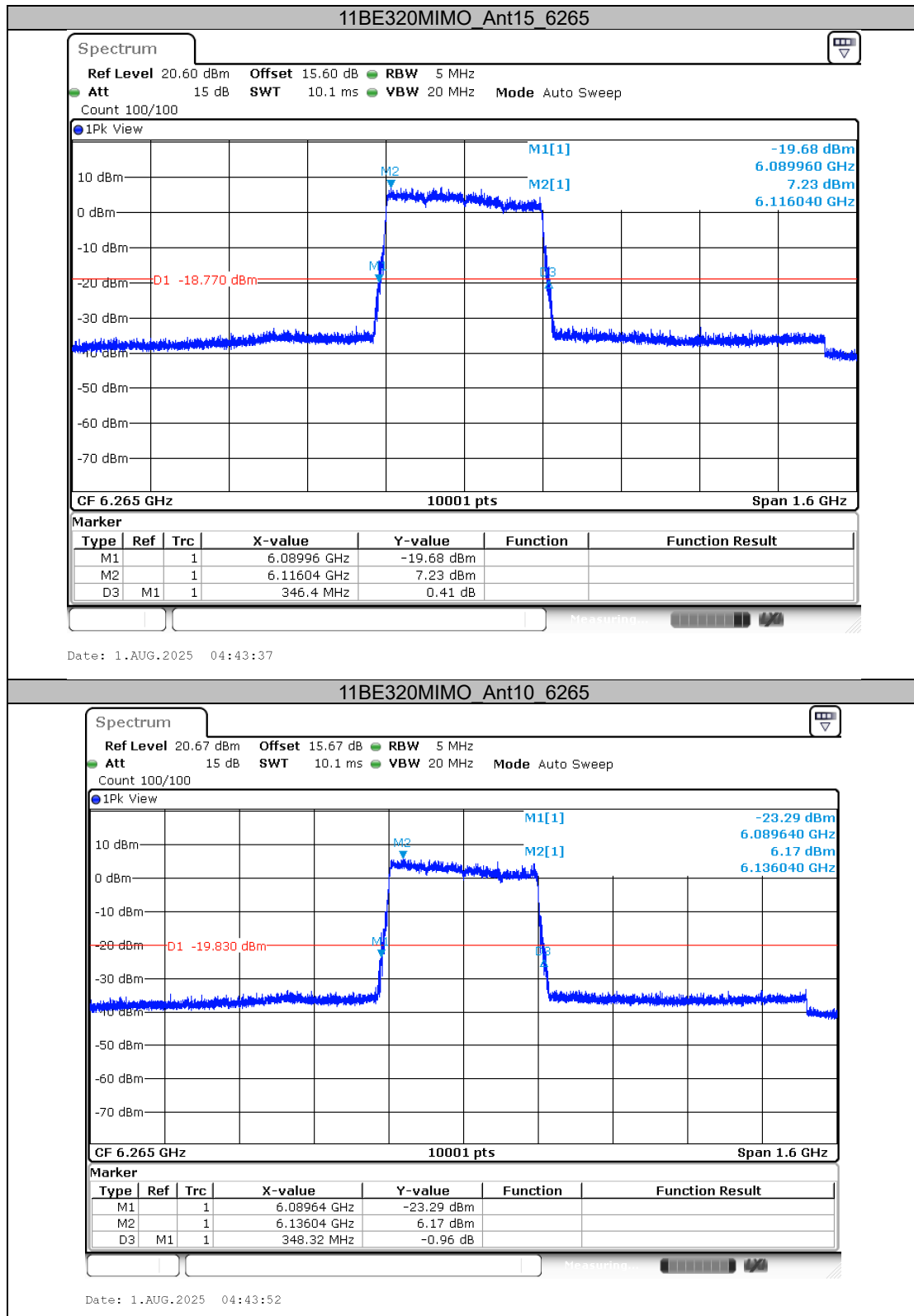














Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant15	5955	17.246	5946.2769	5963.5231	---	---
	Ant10	5955	16.978	5946.4489	5963.4272	---	---
	Ant15	6175	17.426	6166.1289	6183.5551	---	---
	Ant10	6175	17.138	6166.3649	6183.5031	---	---
	Ant15	6415	17.322	6406.1169	6423.4392	---	---
	Ant10	6415	17.122	6406.3849	6423.5071	---	---
	Ant15	6535	17.346	6526.1809	6543.5271	---	---
	Ant10	6535	17.042	6526.3729	6543.4152	---	---
	Ant15	6695	17.390	6686.1449	6703.5351	---	---
	Ant10	6695	17.182	6686.2969	6703.4792	---	---
	Ant15	6855	17.162	6846.3489	6863.5111	---	---
	Ant10	6855	17.130	6846.3409	6863.4712	---	---
11BE20MIMO	Ant15	5955	19.378	5945.3210	5964.6990	---	---
	Ant10	5955	19.066	5945.4450	5964.5110	---	---
	Ant15	6175	19.194	6165.4130	6184.6070	---	---
	Ant10	6175	19.242	6165.3850	6184.6270	---	---
	Ant15	6415	19.070	6405.4090	6424.4791	---	---
	Ant10	6415	19.182	6405.3610	6424.5430	---	---
	Ant15	6535	19.126	6525.4010	6544.5270	---	---
	Ant10	6535	19.182	6525.4410	6544.6230	---	---
	Ant15	6695	19.158	6685.3930	6704.5510	---	---
	Ant10	6695	19.178	6685.3690	6704.5470	---	---
	Ant15	6855	19.222	6845.3610	6864.5830	---	---
	Ant10	6855	19.162	6845.3930	6864.5550	---	---
11BE40MIMO	Ant15	5965	38.012	5946.0099	5984.0221	---	---
	Ant10	5965	38.220	5945.8659	5984.0861	---	---
	Ant15	6165	38.364	6145.6739	6184.0381	---	---
	Ant10	6165	38.308	6145.7699	6184.0781	---	---
	Ant15	6405	38.068	6385.9139	6423.9821	---	---
	Ant10	6405	38.260	6385.8739	6424.1341	---	---
	Ant15	6565	38.100	6545.8499	6583.9501	---	---
	Ant10	6565	38.292	6545.8179	6584.1101	---	---
	Ant15	6685	38.076	6665.8499	6703.9261	---	---



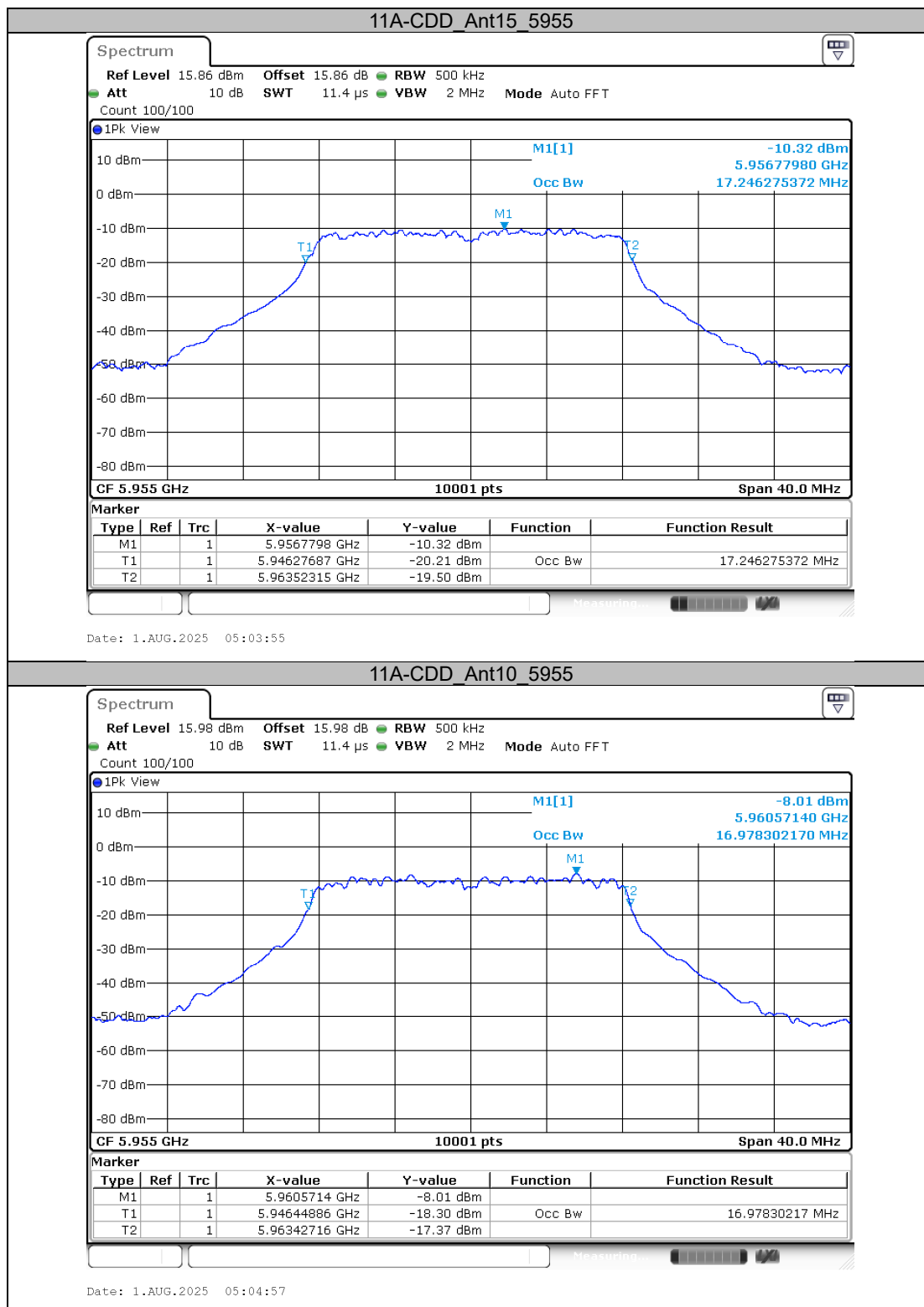
	Ant10	6685	38.044	6665.9939	6704.0381	---	---
	Ant15	6845	38.340	6825.8579	6864.1981	---	---
	Ant10	6845	38.484	6825.5699	6864.0541	---	---
11BE80MIMO	Ant15	5985	77.960	5946.2039	6024.1641	---	---
	Ant10	5985	77.544	5946.1719	6023.7161	---	---
	Ant15	6145	77.688	6106.1559	6183.8441	---	---
	Ant10	6145	77.704	6106.0599	6183.7641	---	---
	Ant15	6385	77.592	6345.9799	6423.5721	---	---
	Ant10	6385	77.560	6346.1719	6423.7321	---	---
	Ant15	6625	77.816	6585.9479	6663.7641	---	---
	Ant10	6625	77.480	6586.2519	6663.7321	---	---
	Ant15	6705	77.784	6666.1079	6743.8921	---	---
	Ant10	6705	77.480	6666.1559	6743.6361	---	---
	Ant15	6785	77.544	6746.1079	6823.6521	---	---
	Ant10	6785	77.304	6746.3479	6823.6521	---	---
11BE160MIMO	Ant15	6025	159.92	5945.1680	6105.0880	---	---
	Ant10	6025	159.76	5945.0720	6104.8320	---	---
	Ant15	6185	159.70	6104.8800	6264.5760	---	---
	Ant10	6185	159.34	6104.8160	6264.1601	---	---
	Ant15	6345	160.02	6264.4961	6424.5120	---	---
	Ant10	6345	159.79	6264.7840	6424.5760	---	---
	Ant15	6665	159.73	6585.0080	6744.7360	---	---
	Ant10	6665	159.41	6585.5199	6744.9280	---	---
11BE320MIMO	Ant15	6105	319.46	5945.0160	6264.4721	≤320	PASS
	Ant10	6105	319.14	5944.5680	6263.7041	≤320	PASS
	Ant15	6265	319.46	6103.8001	6423.2562	≤320	PASS
	Ant10	6265	319.84	6103.8001	6423.6401	≤320	PASS

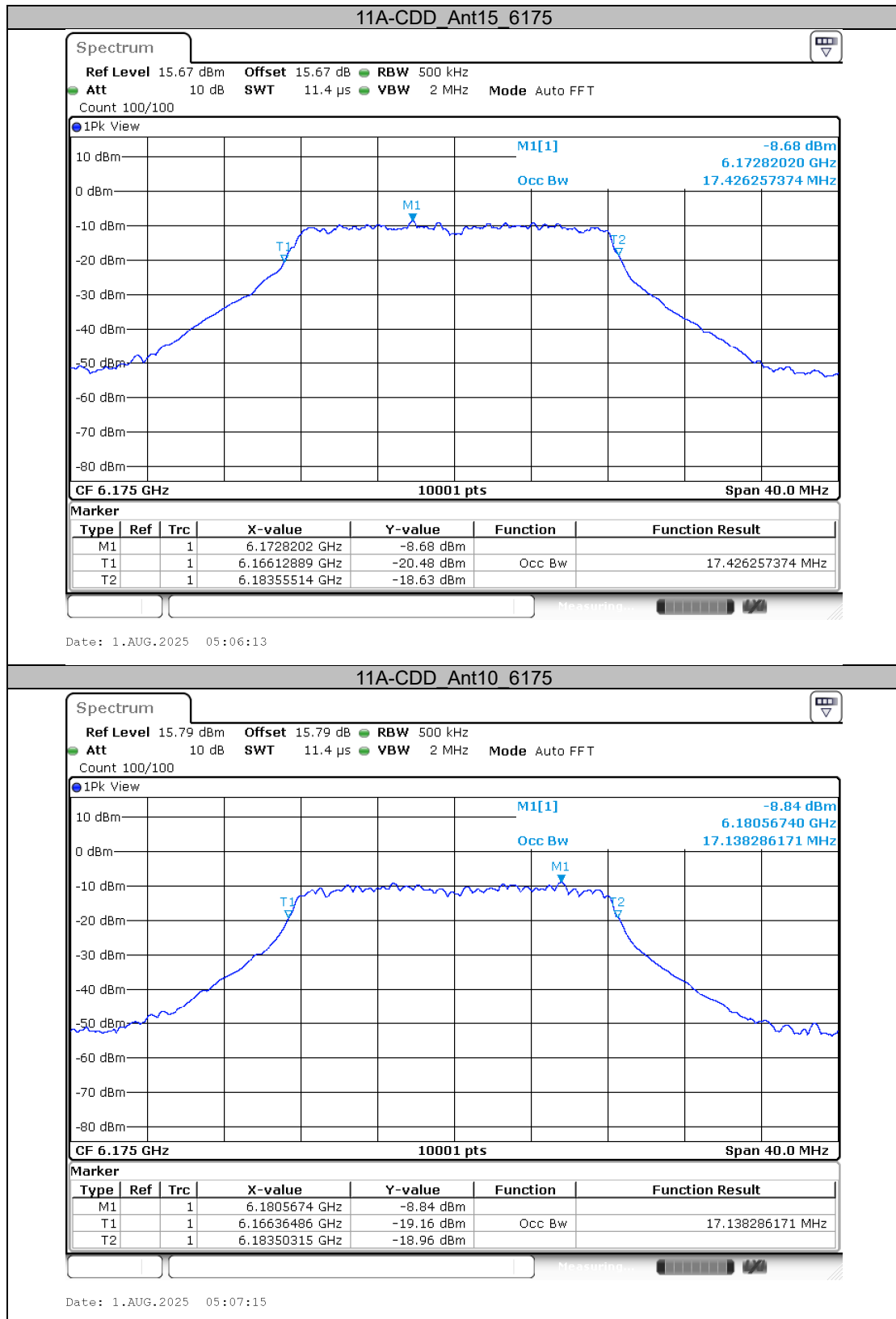
Note1: For channels with a nominal bandwidth of 320MHz, compliance is demonstrated by way of the 99%BW.

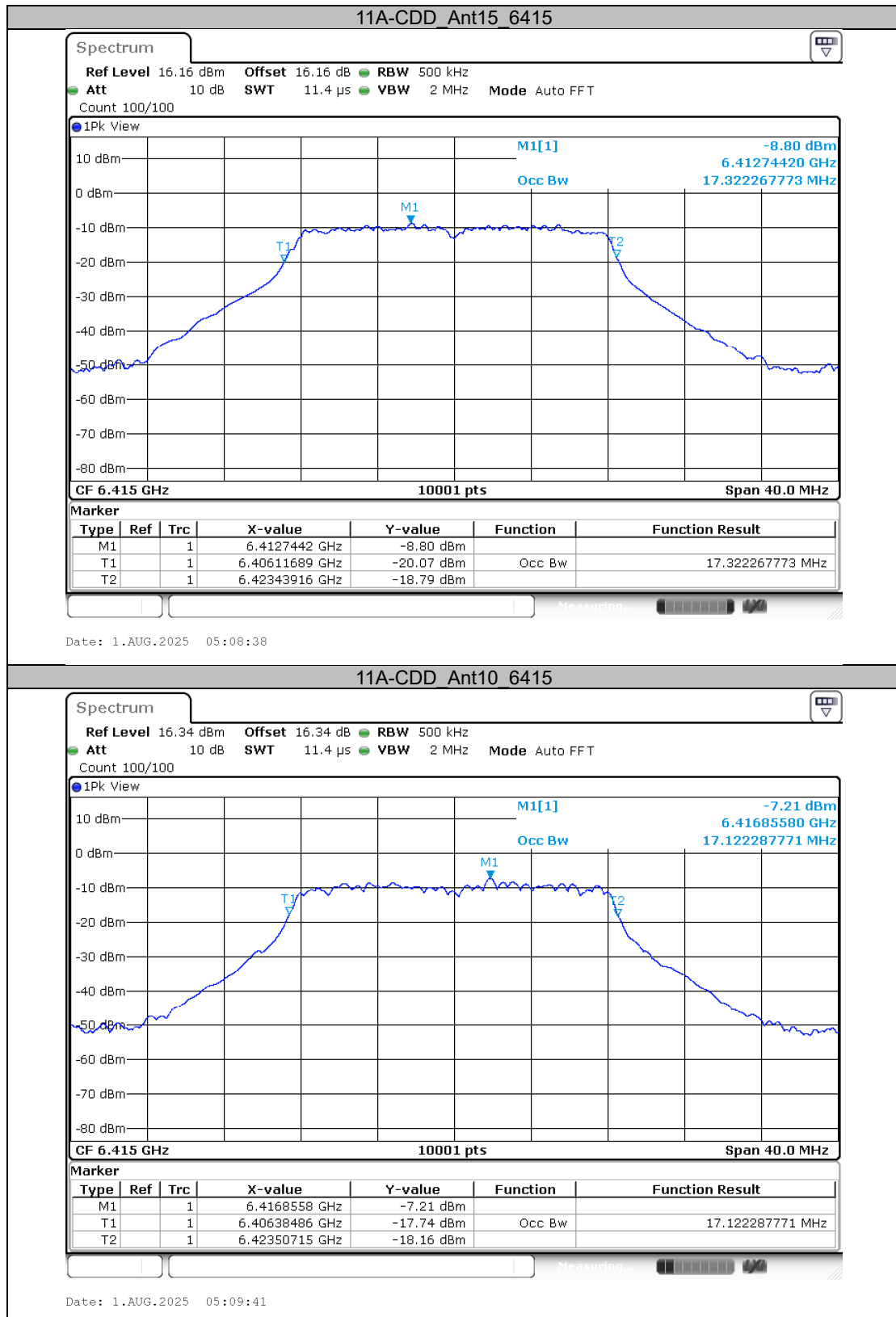
Note2: For channels with a nominal bandwidth less than 320MHz(e.g 20,40,80,160MHz), compliance is demonstrated by way of the 26dB EBW.

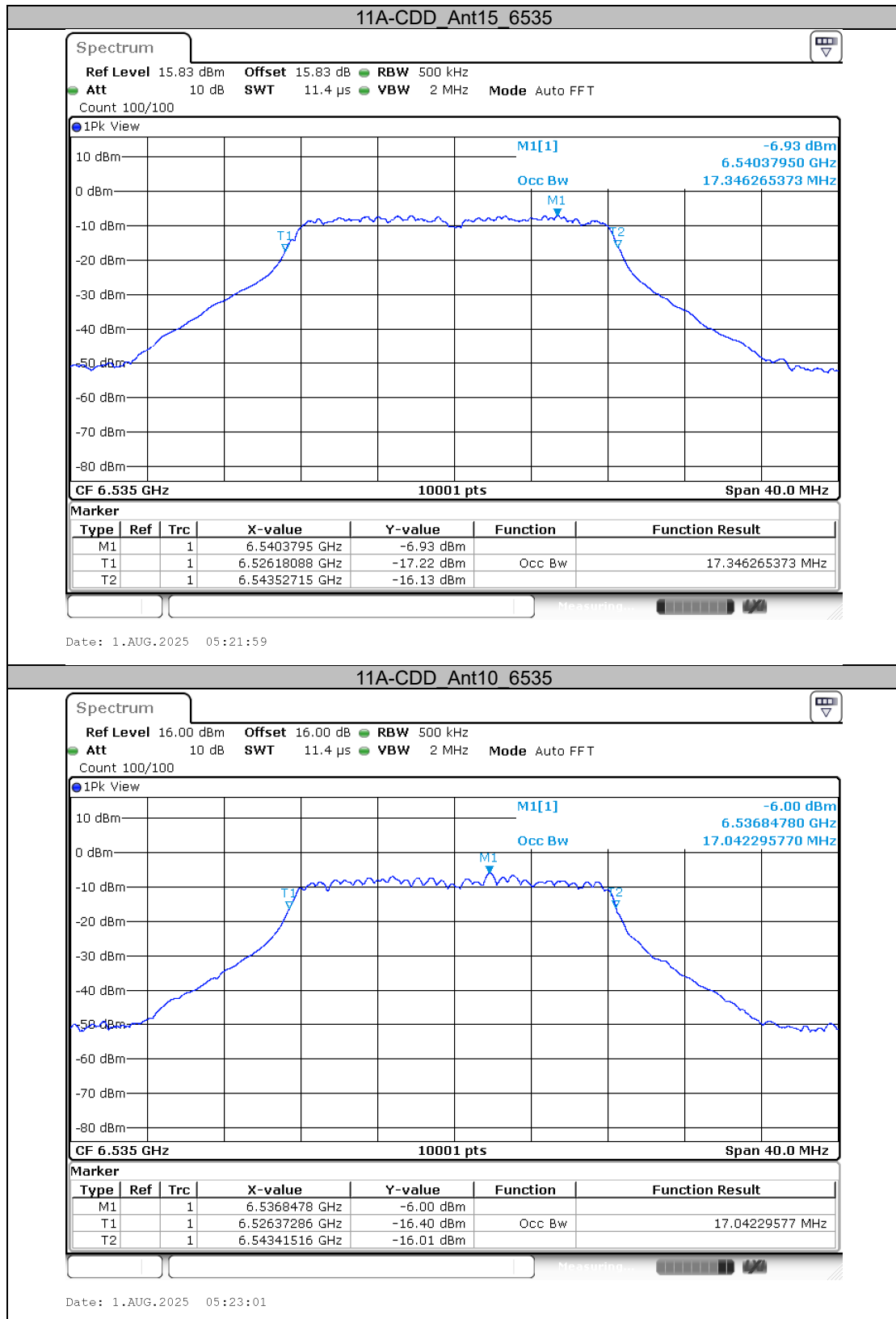


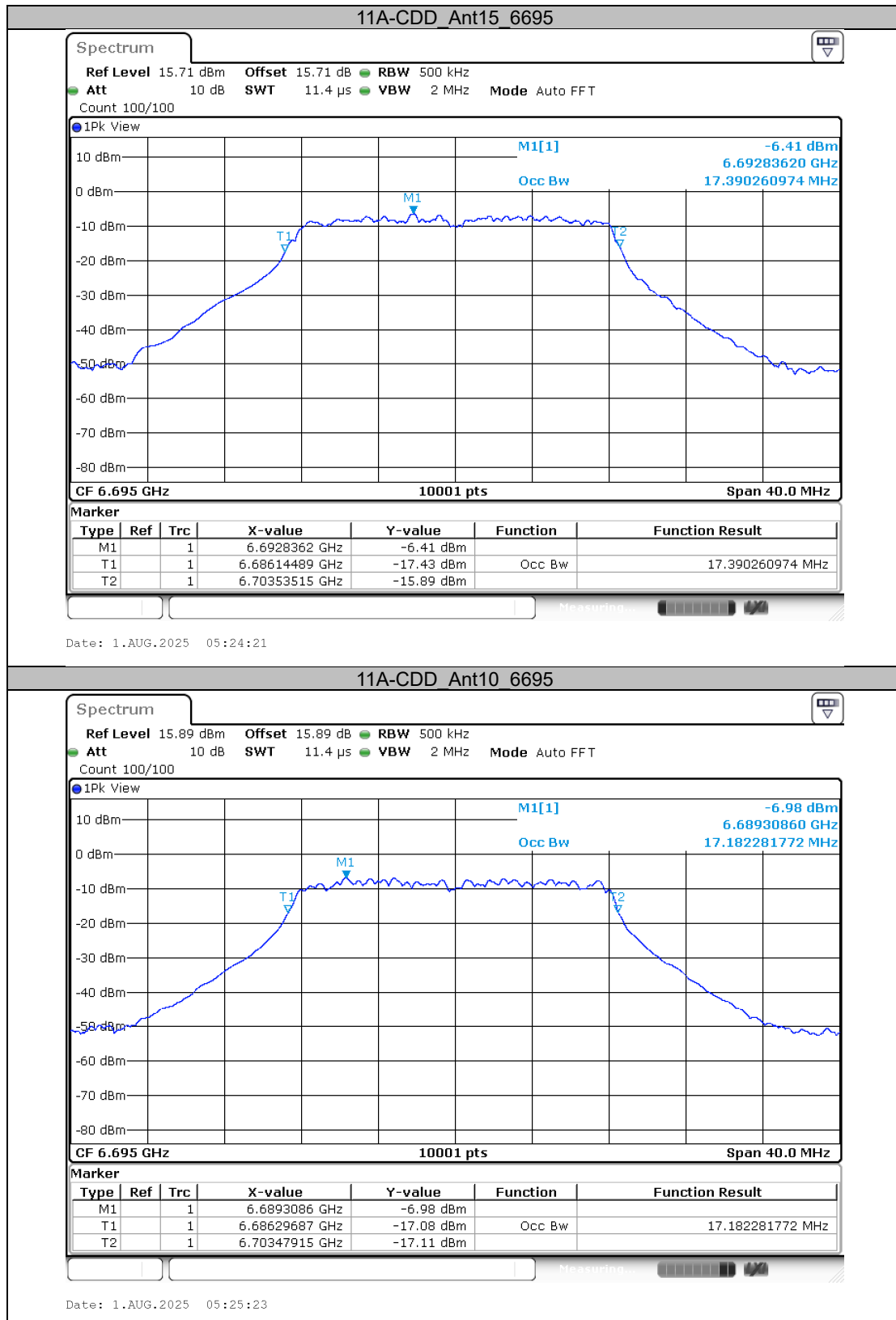
Test Graphs

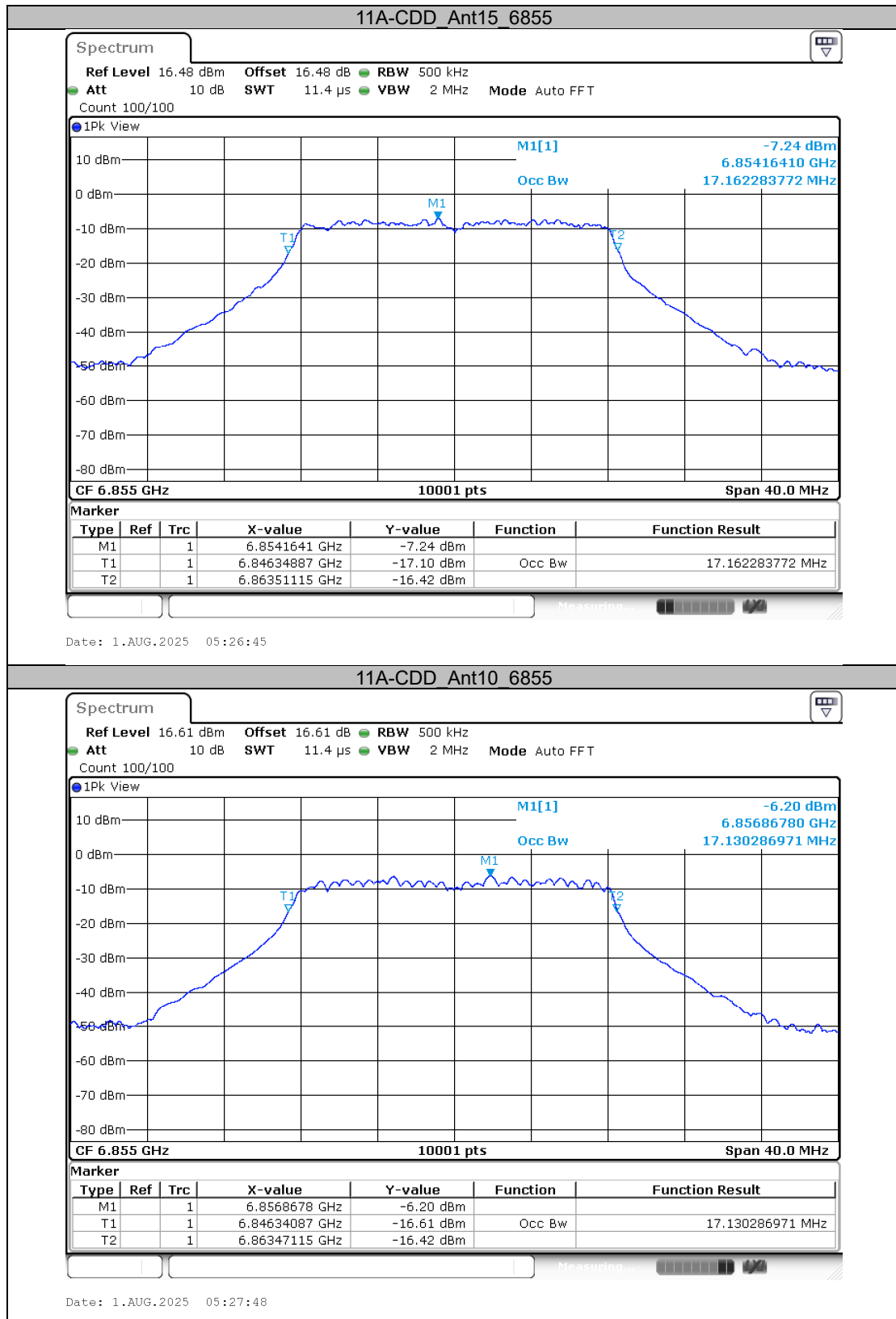


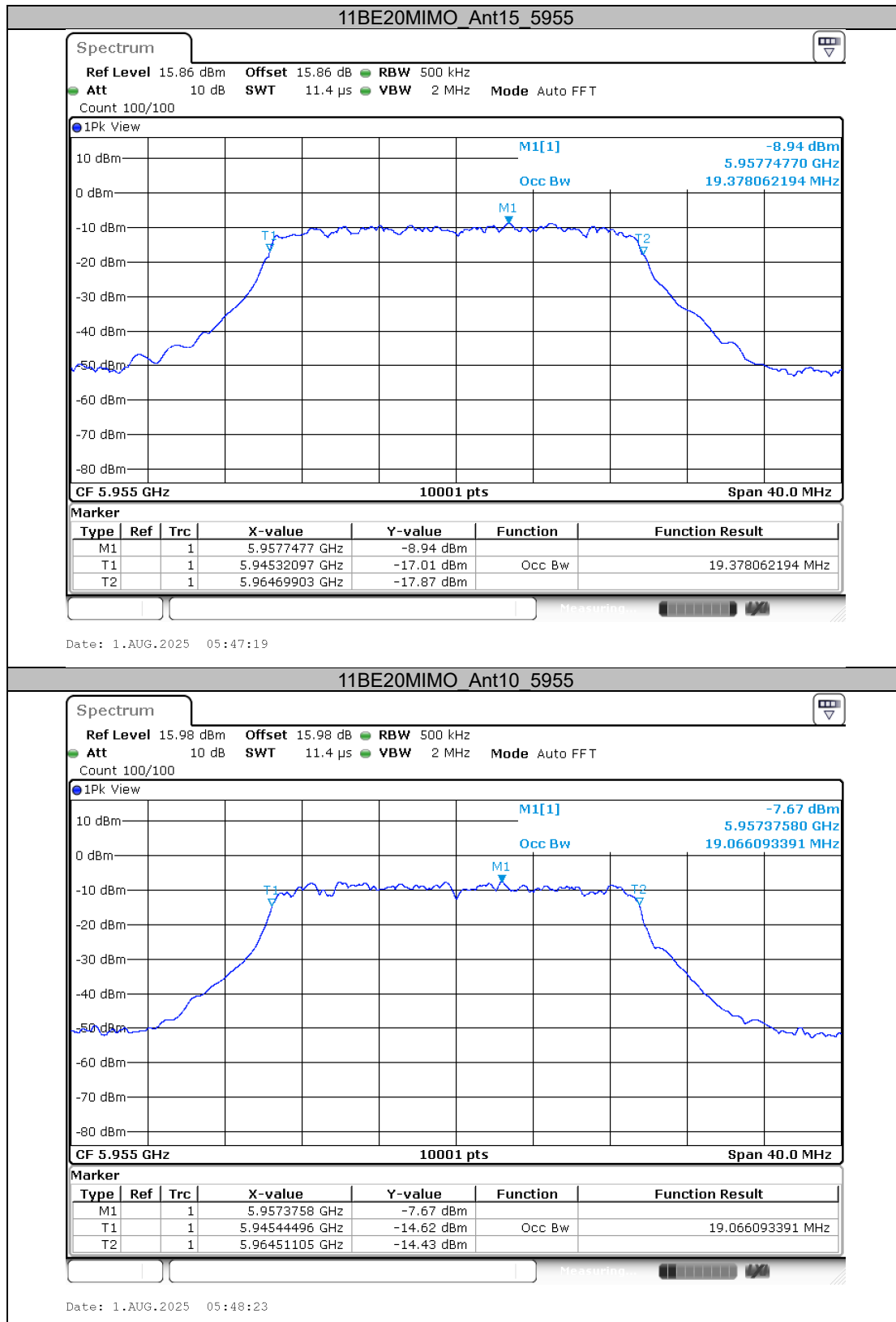


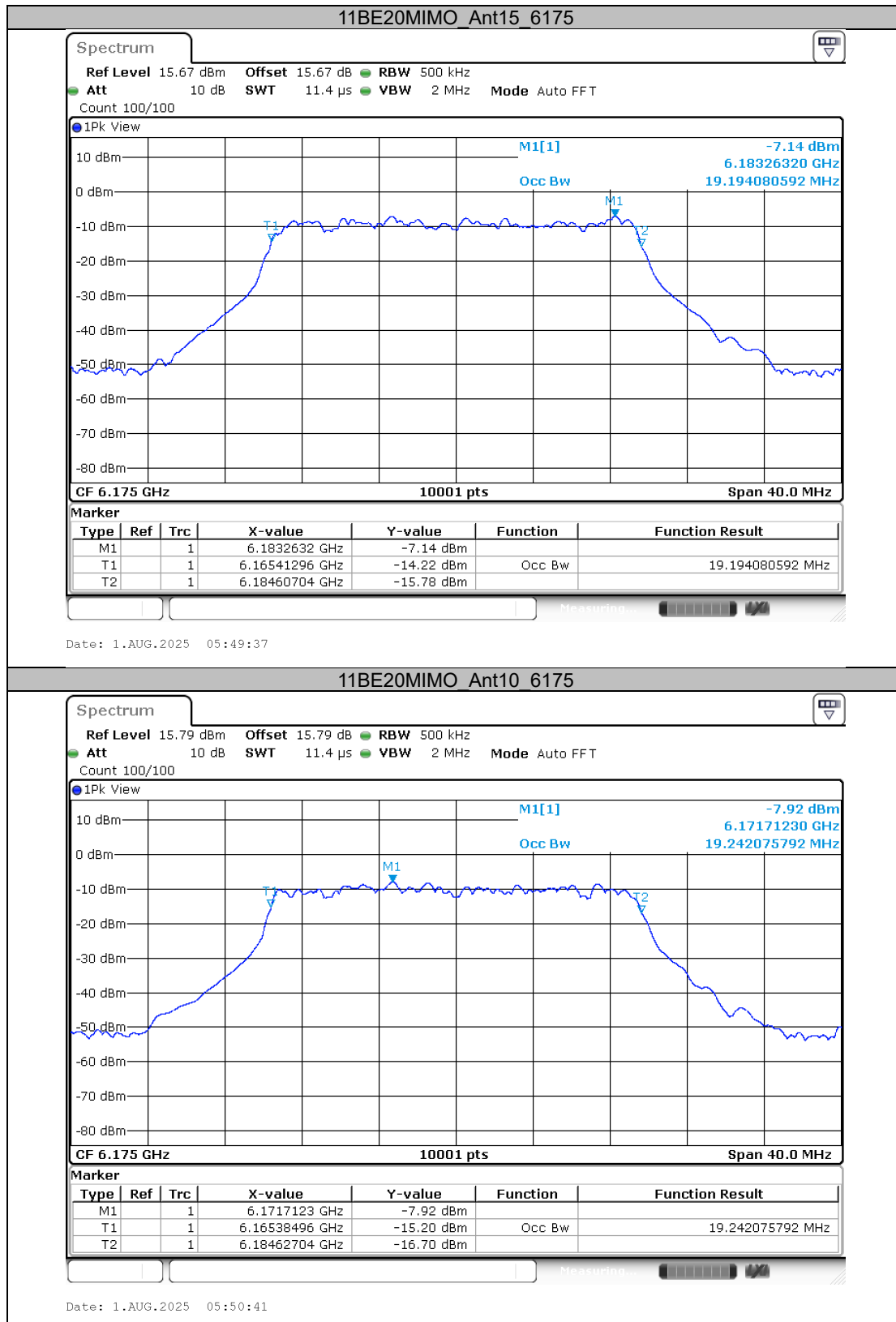


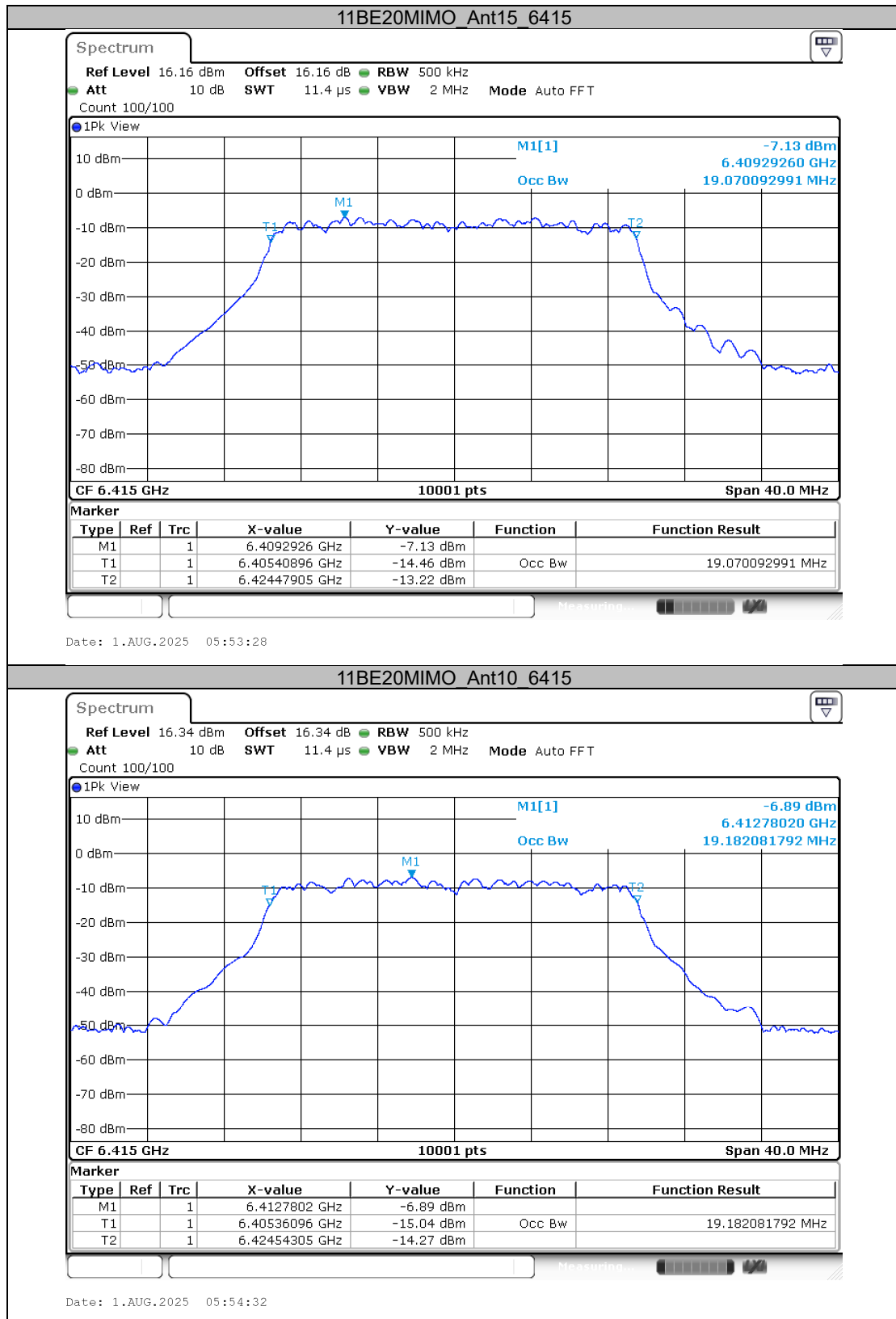


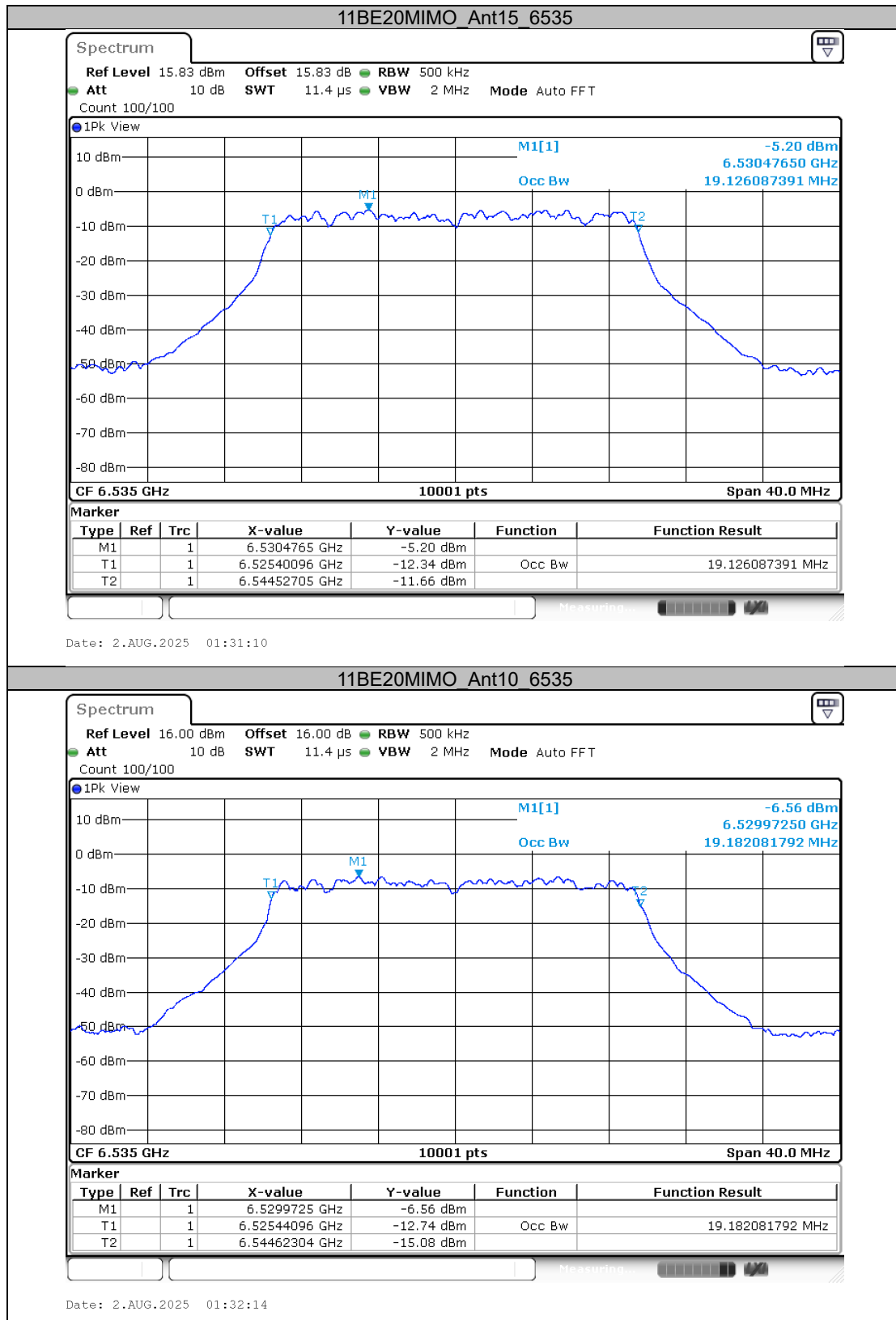


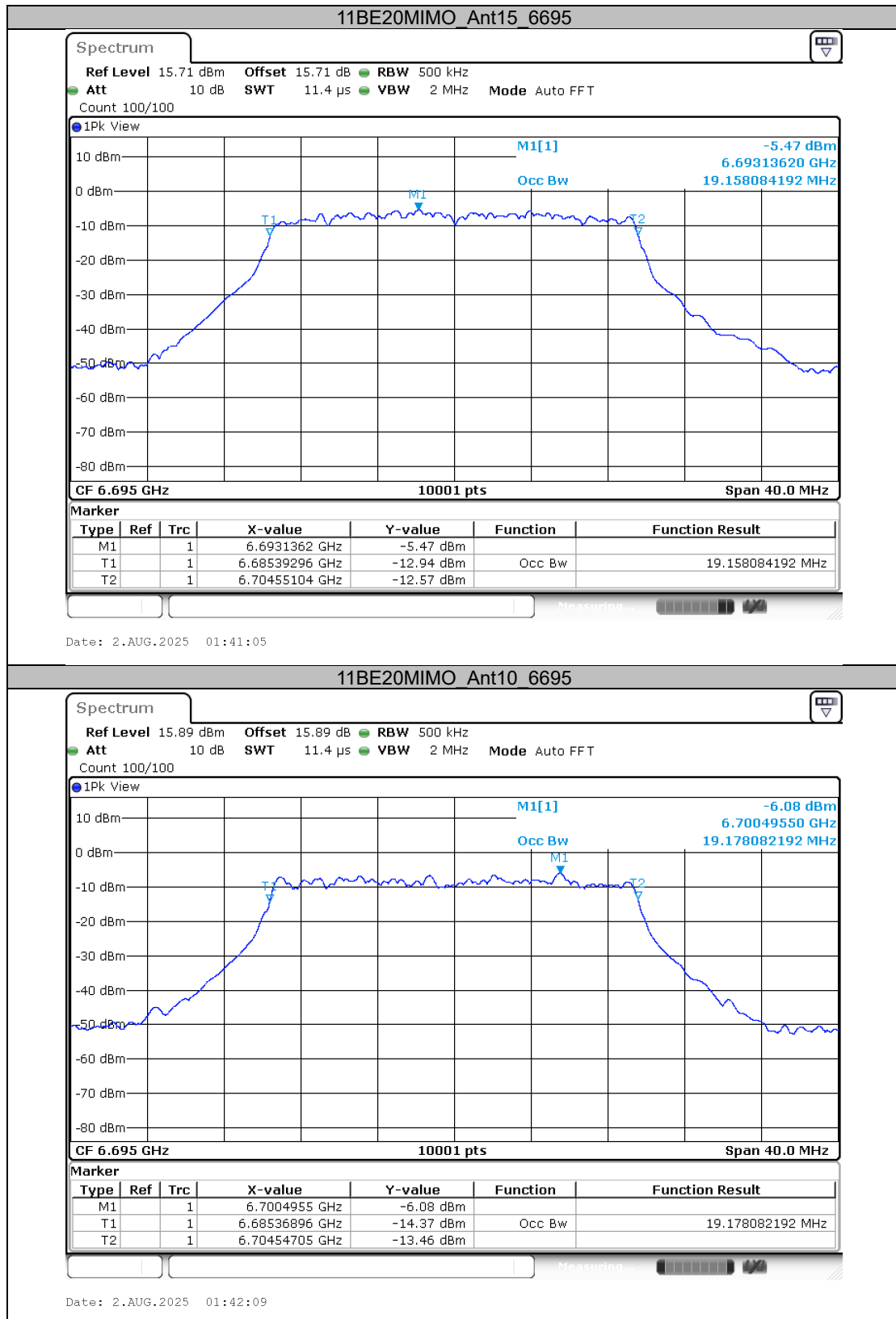


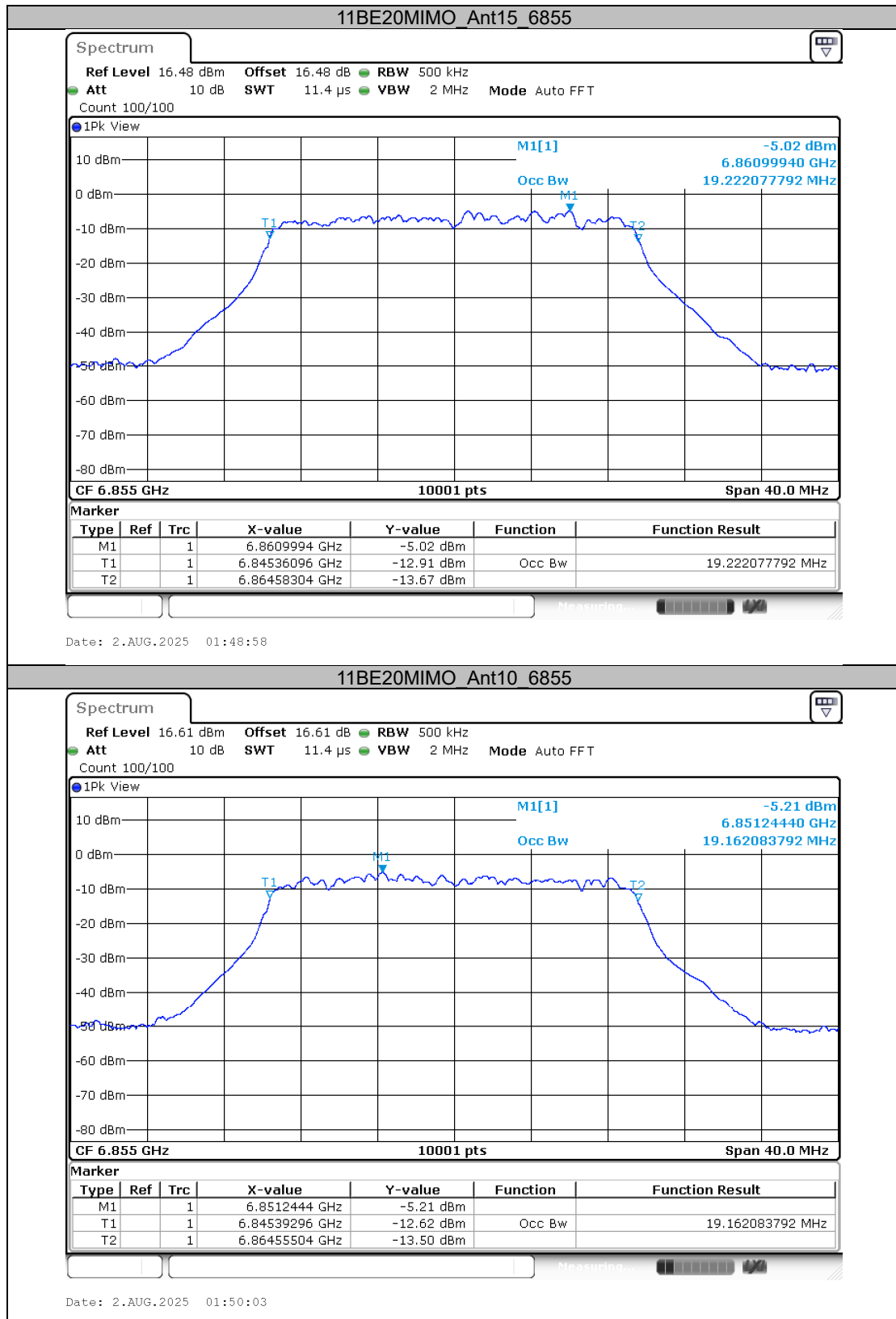


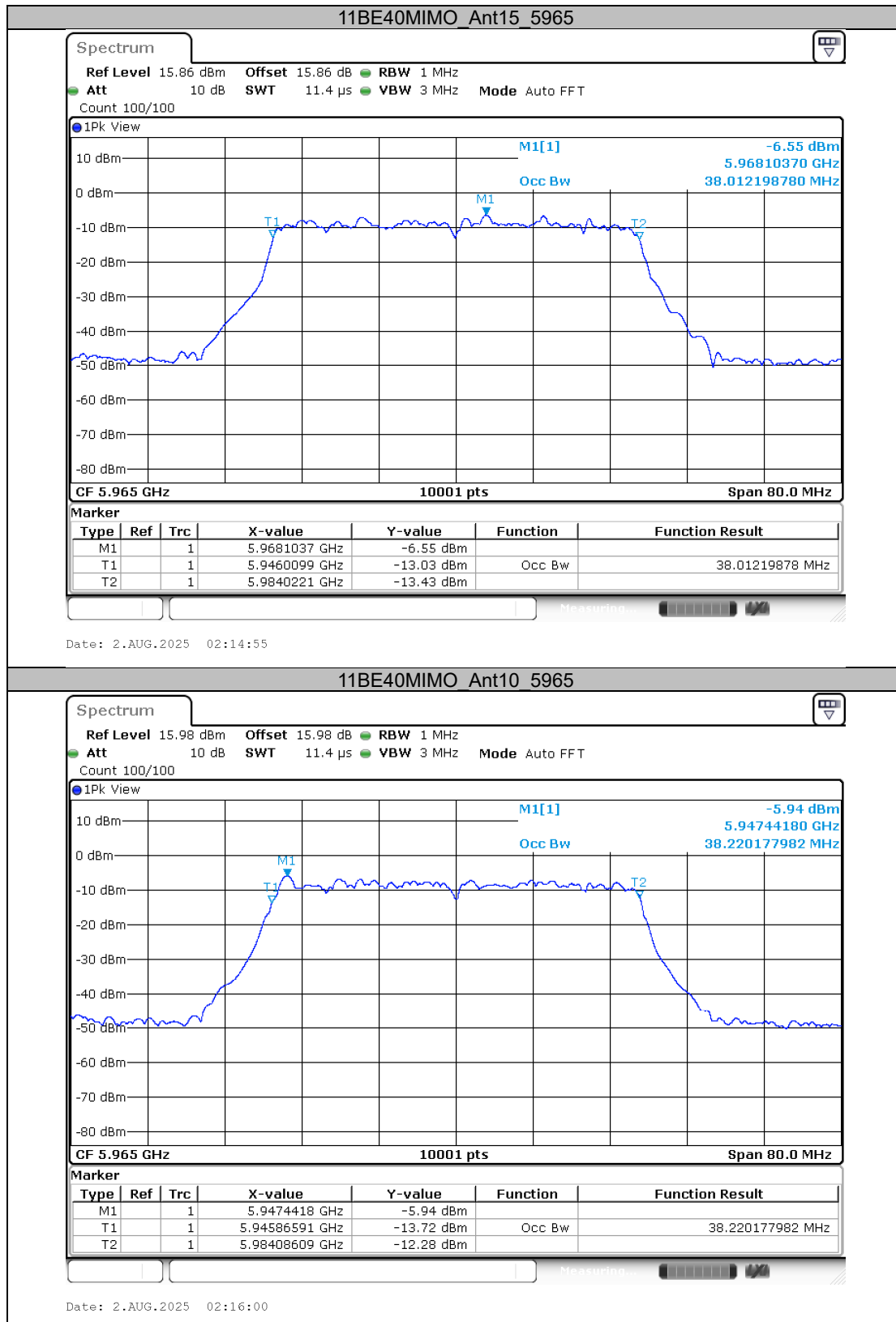


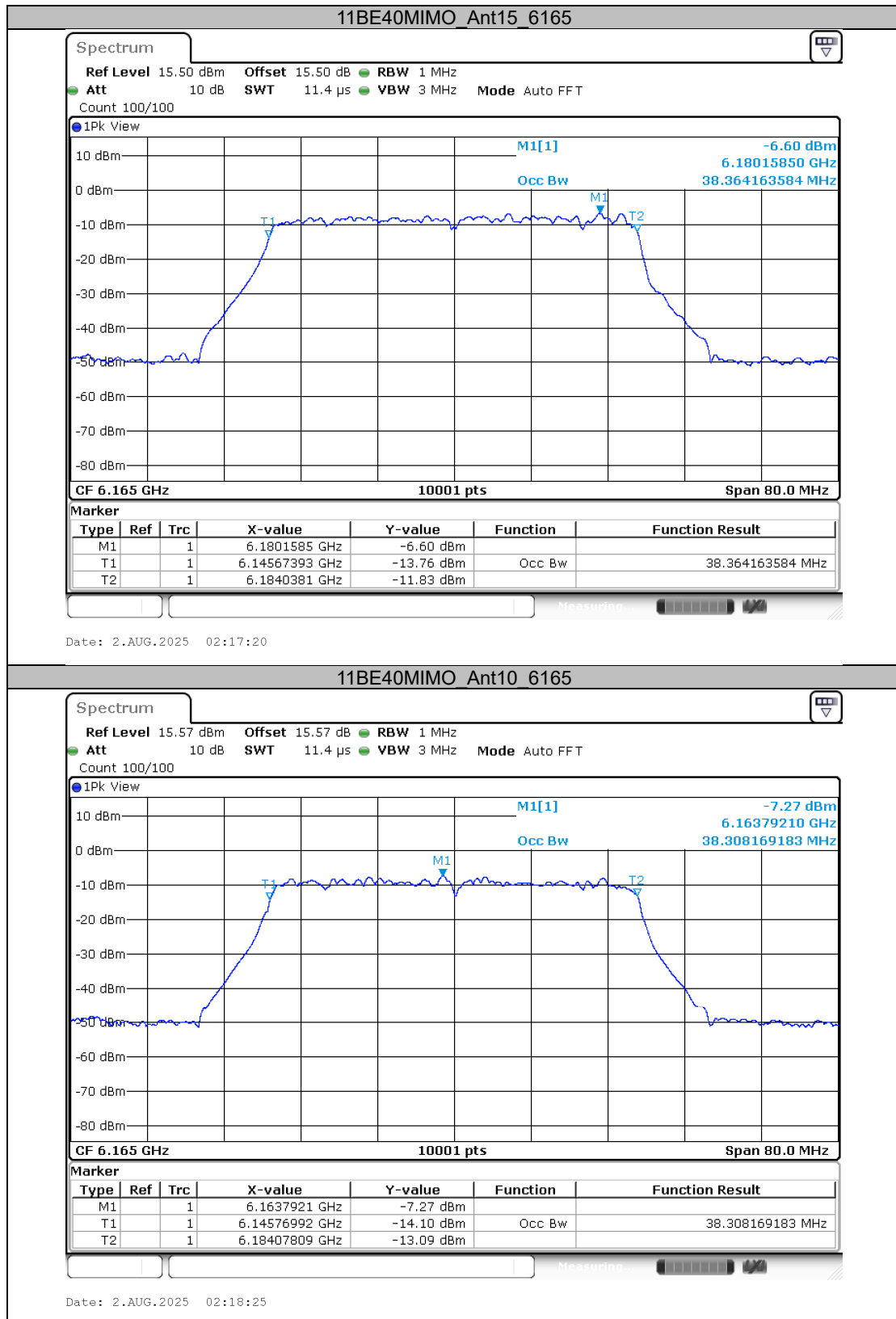


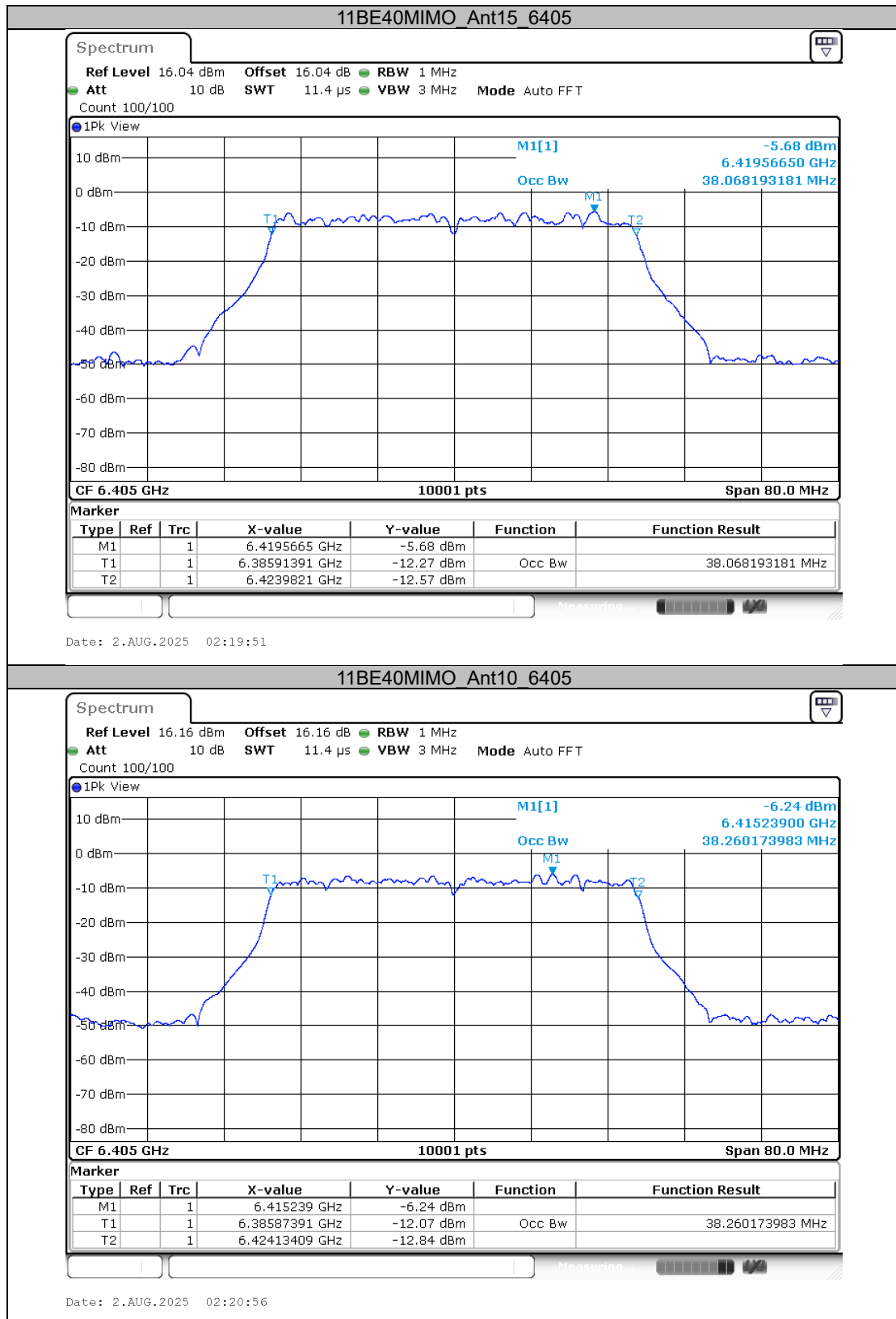


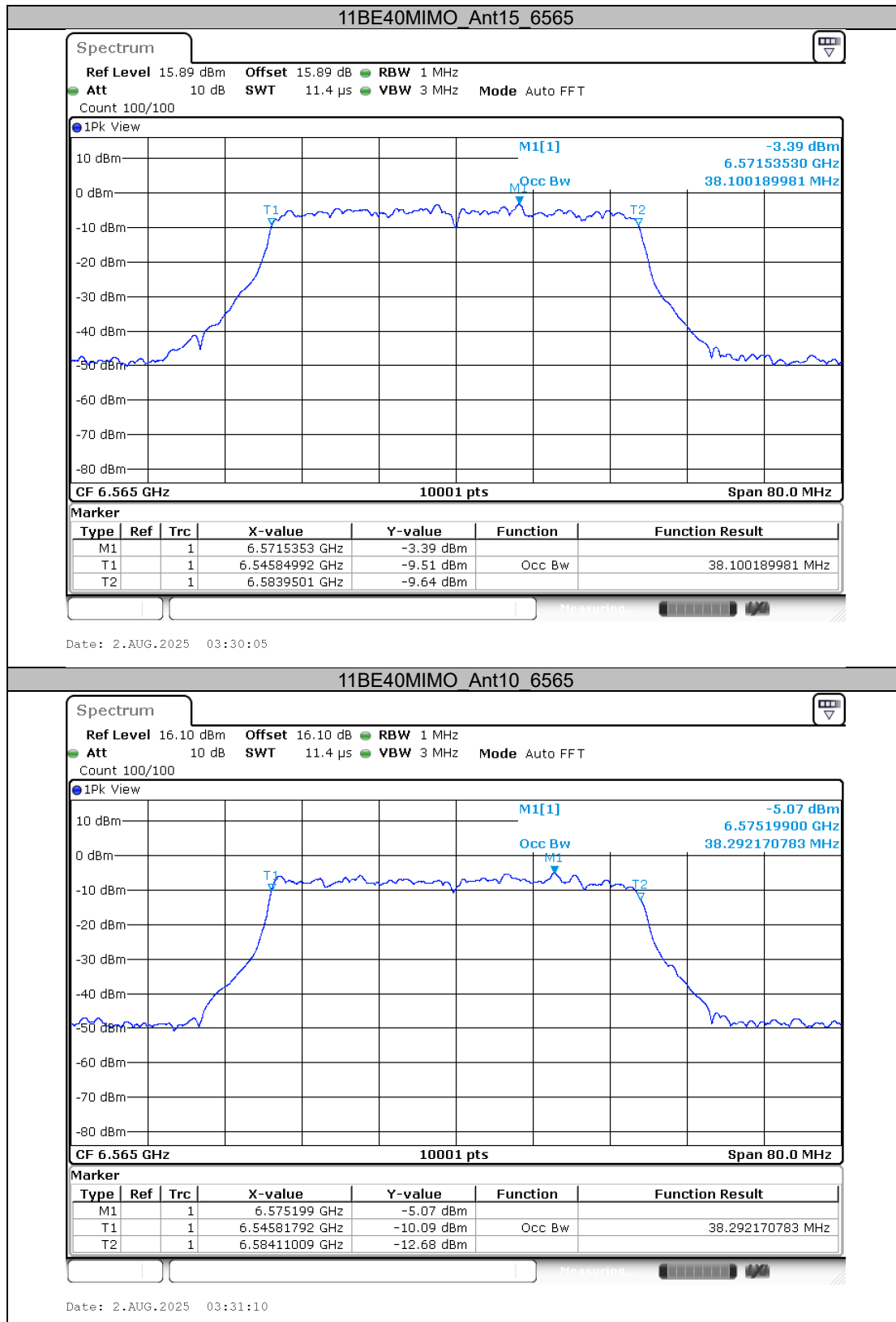


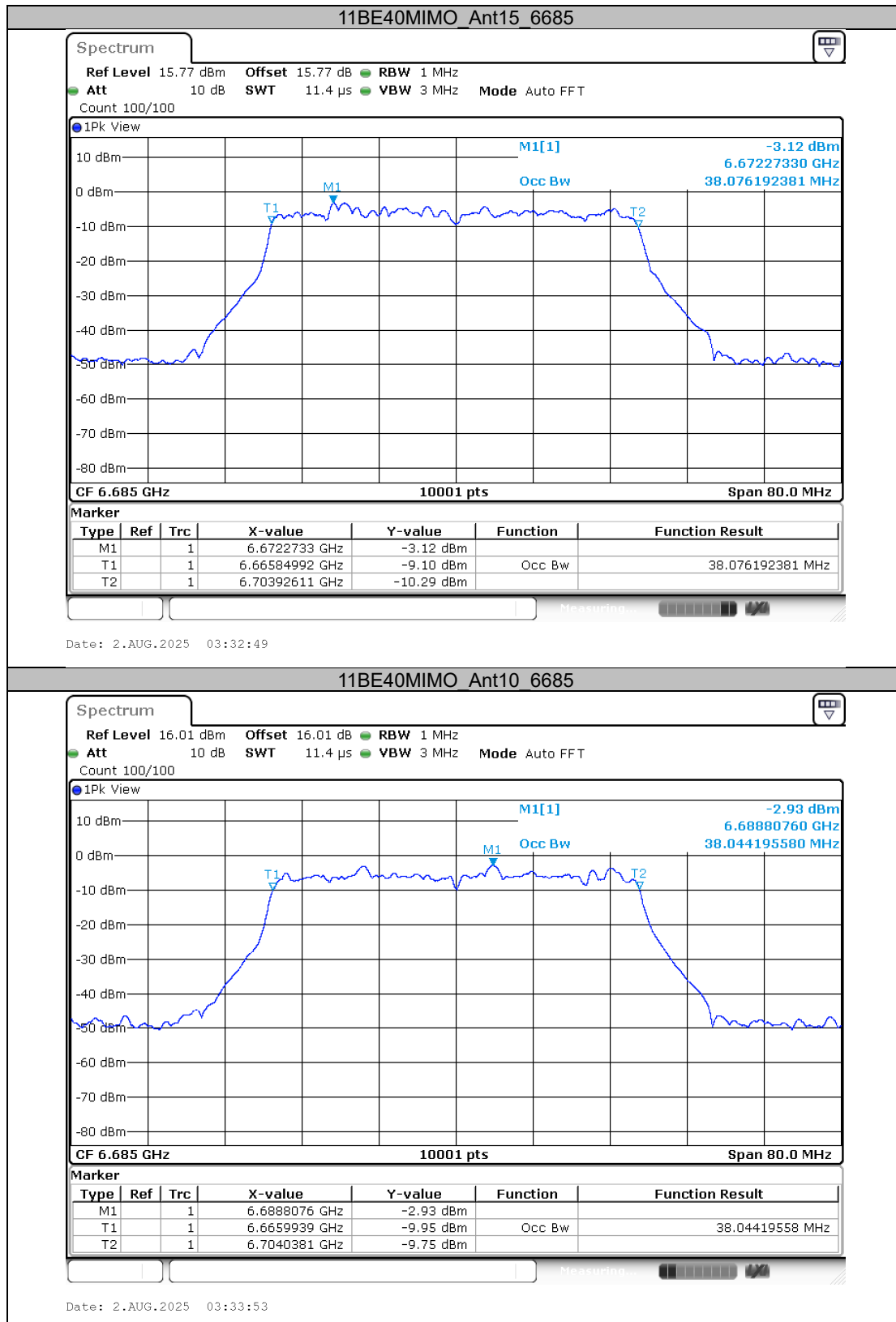


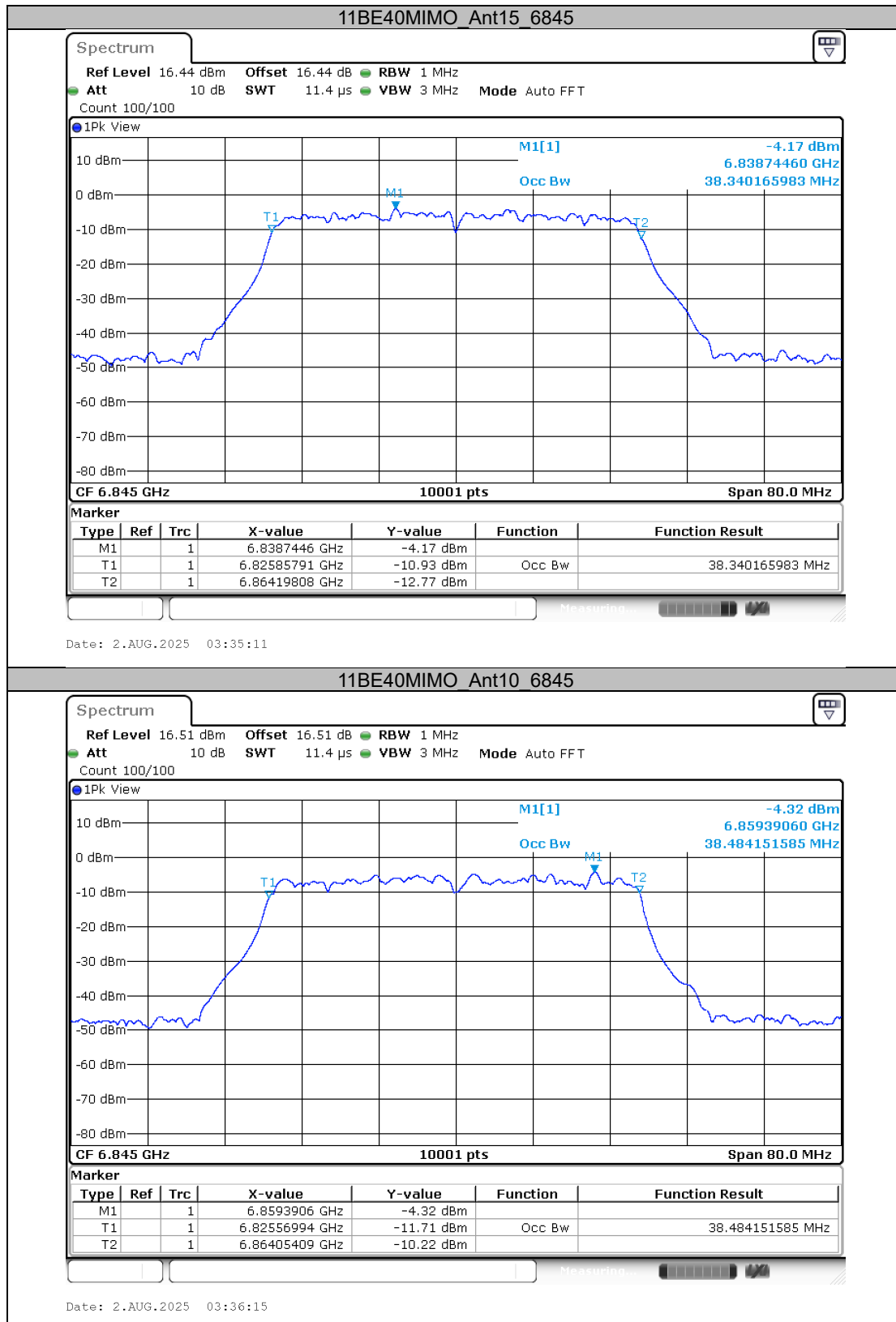


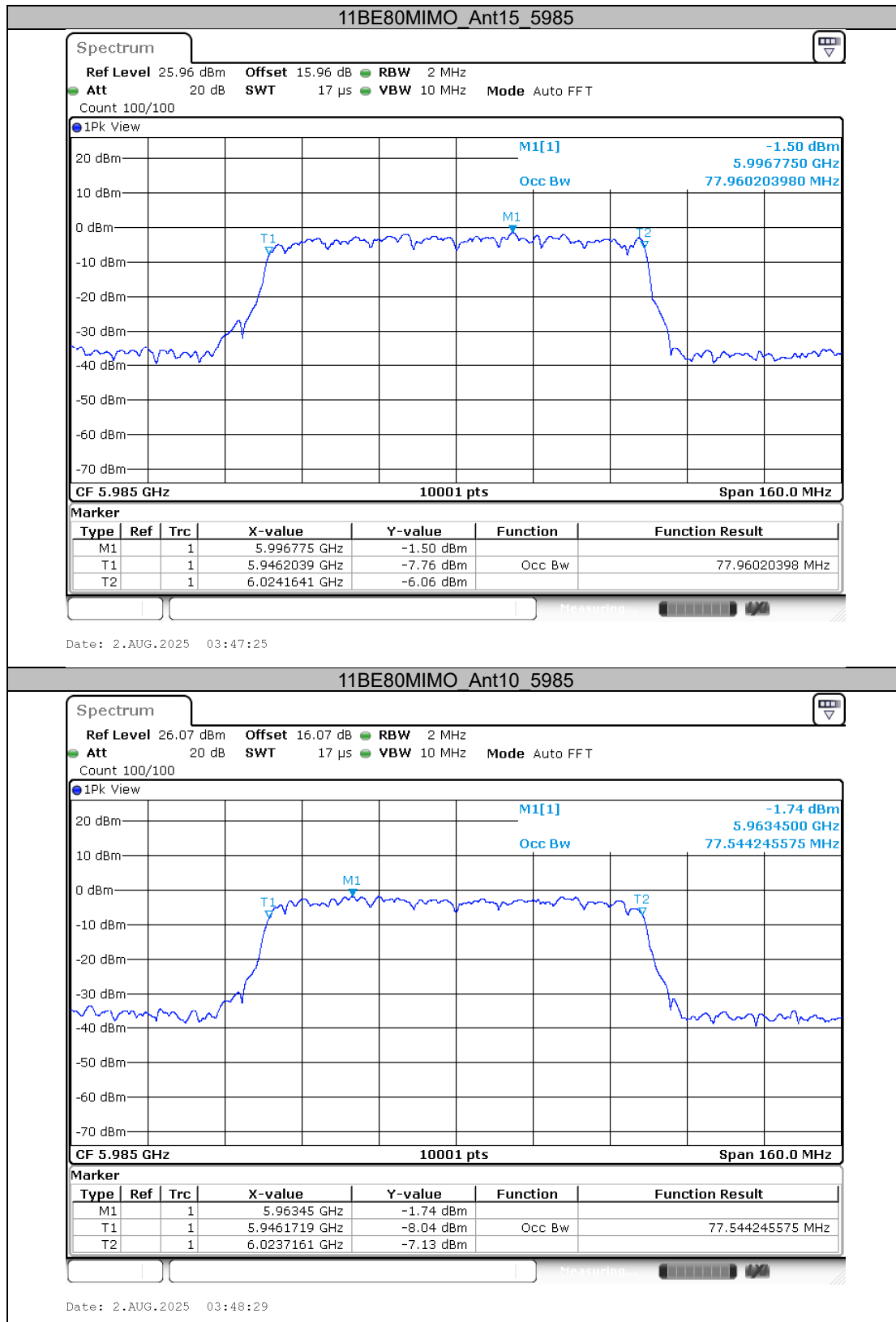


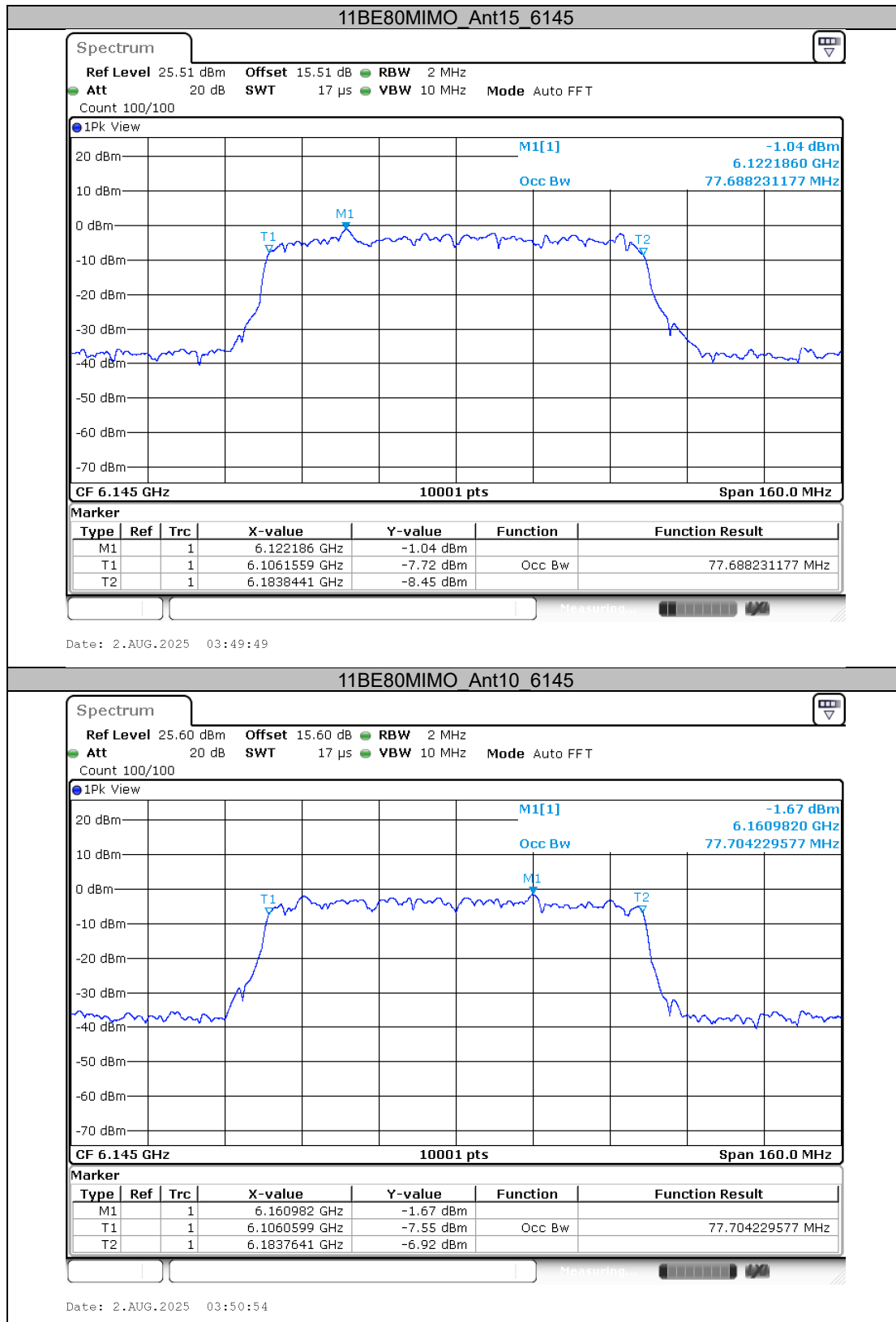


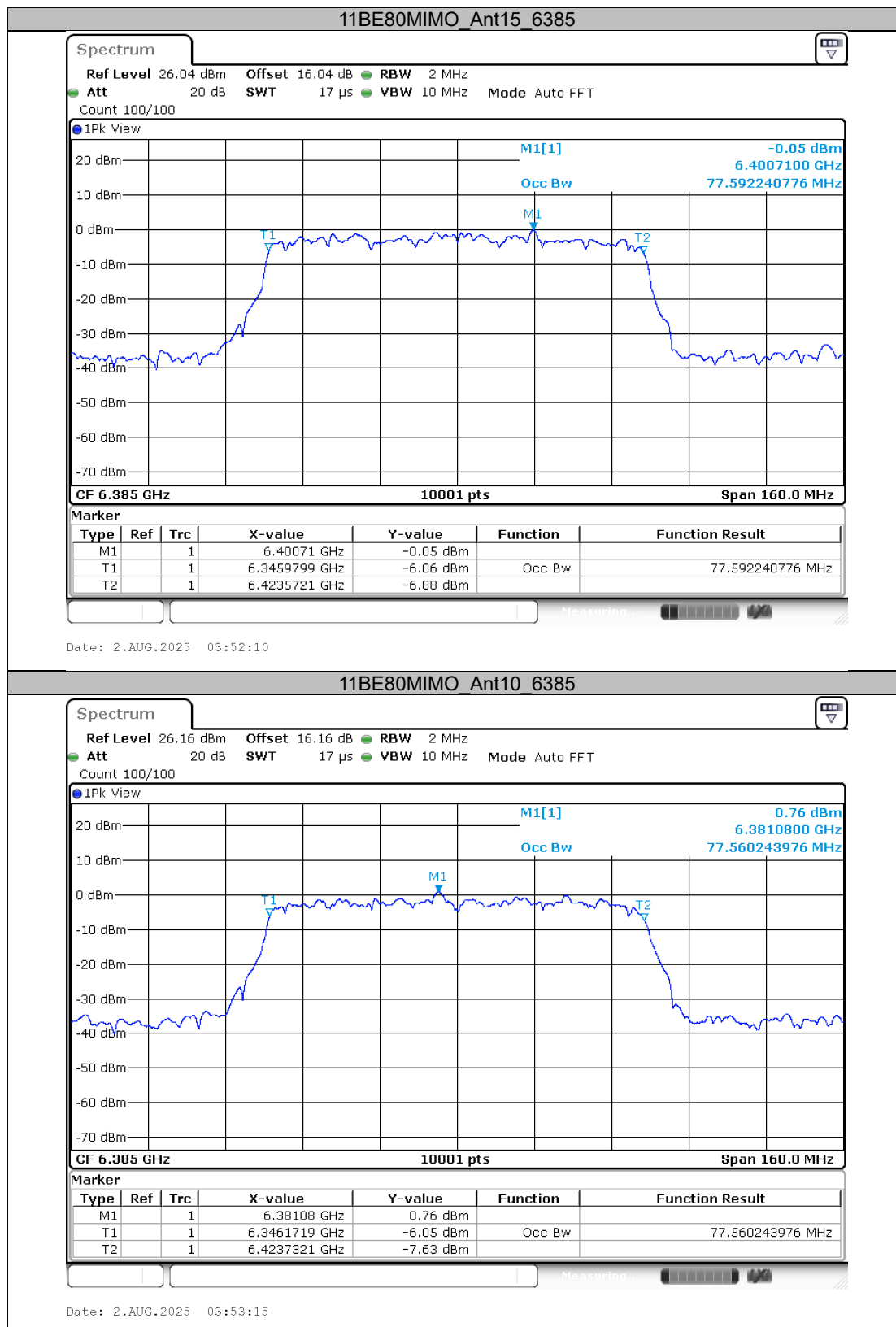


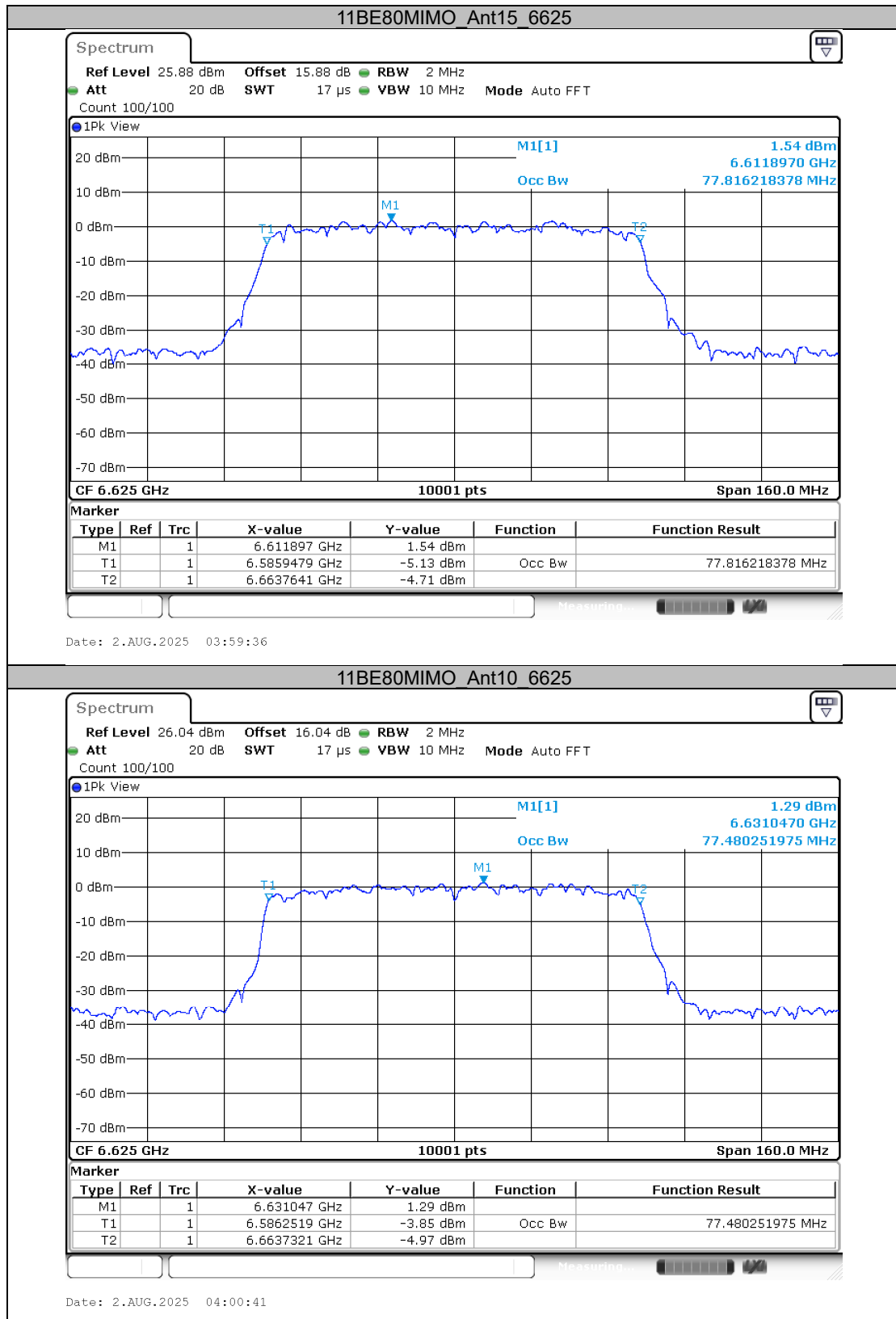


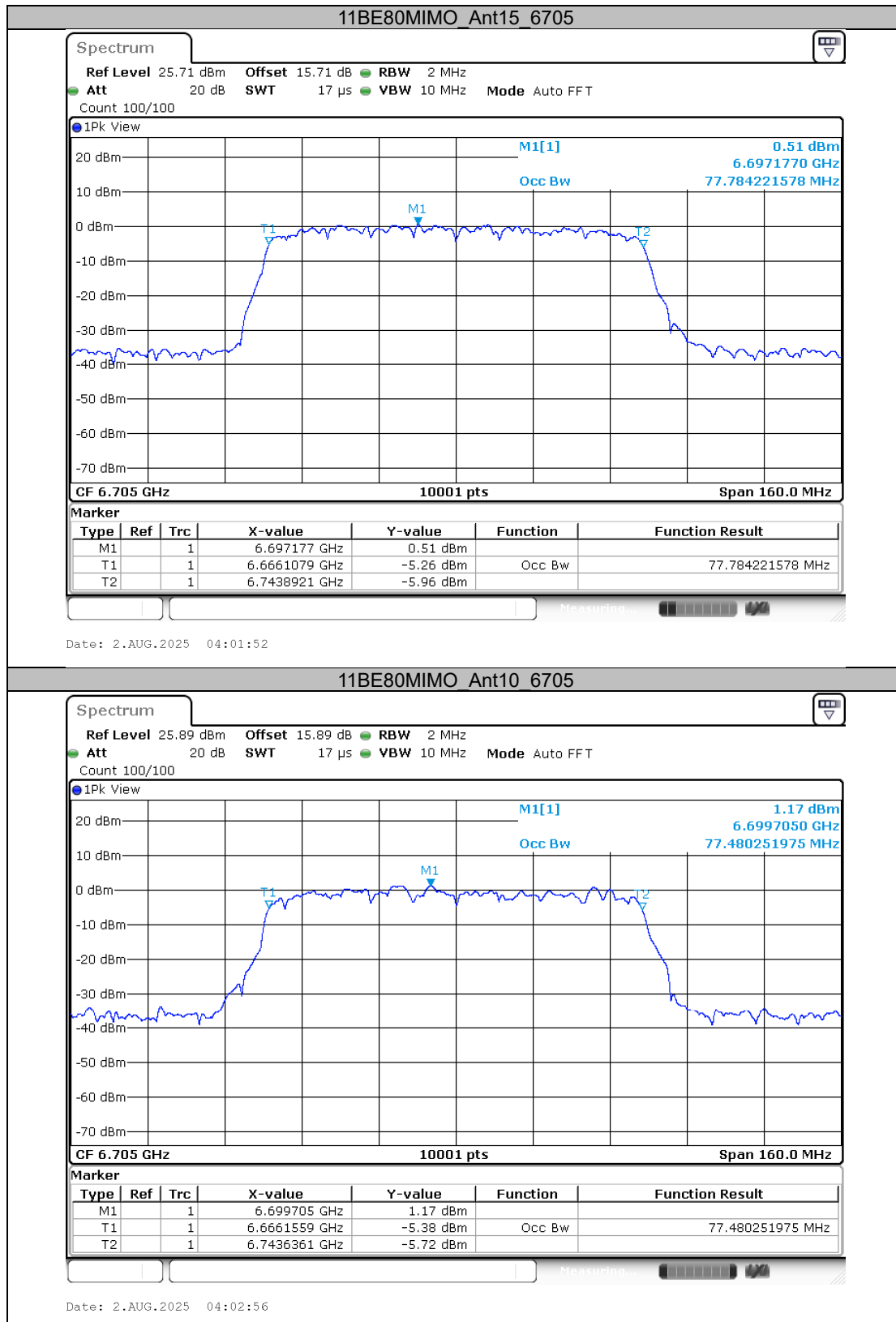


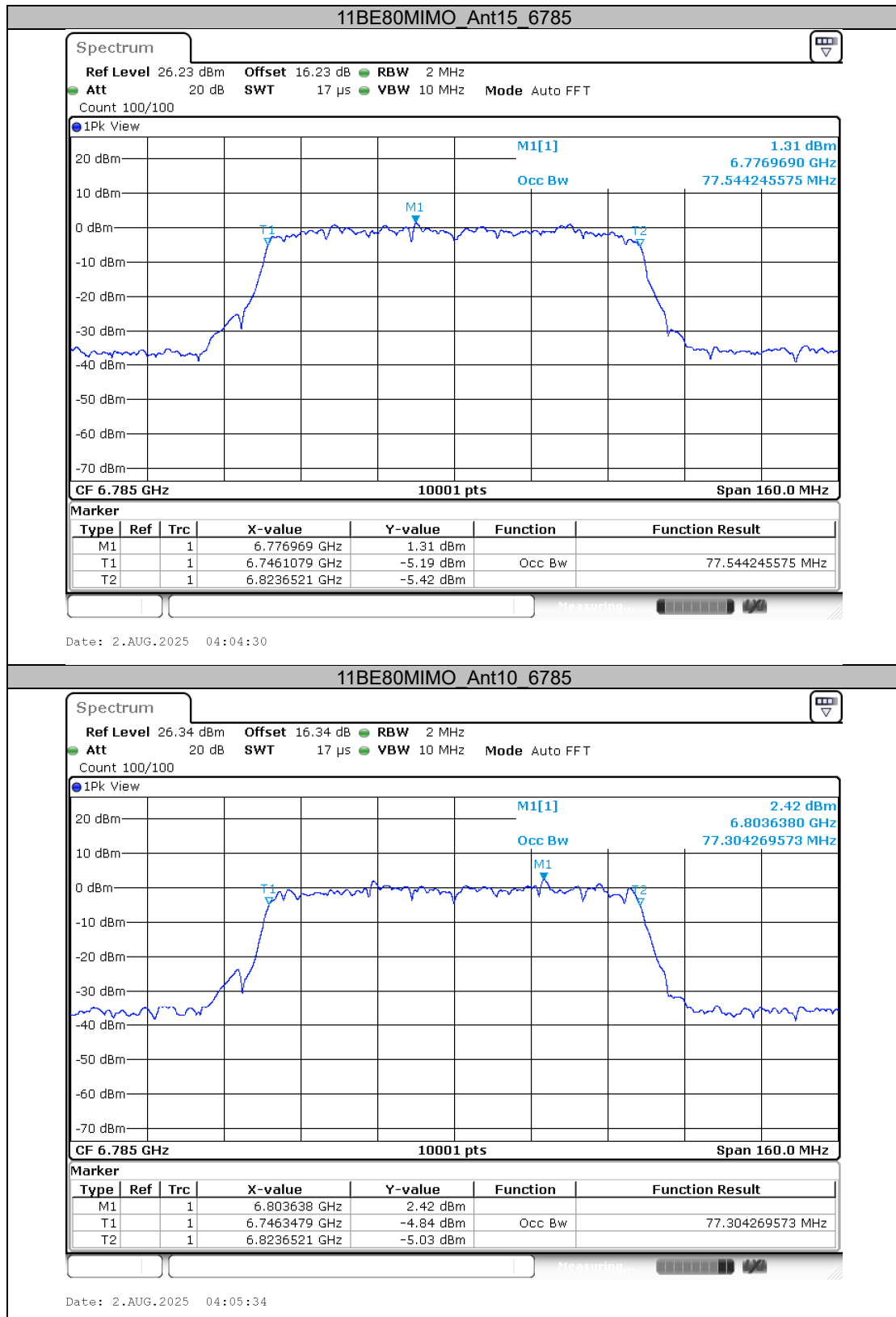


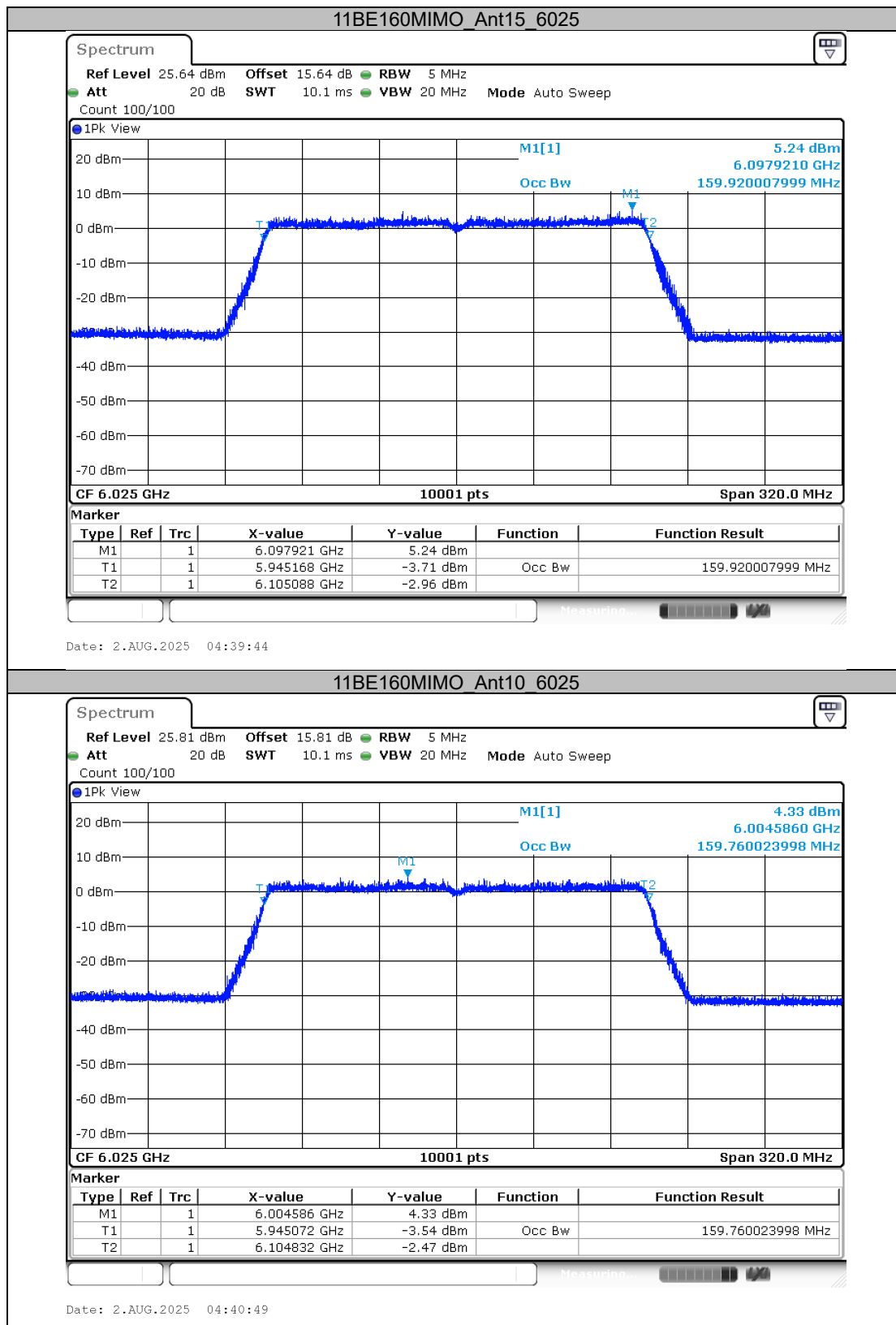


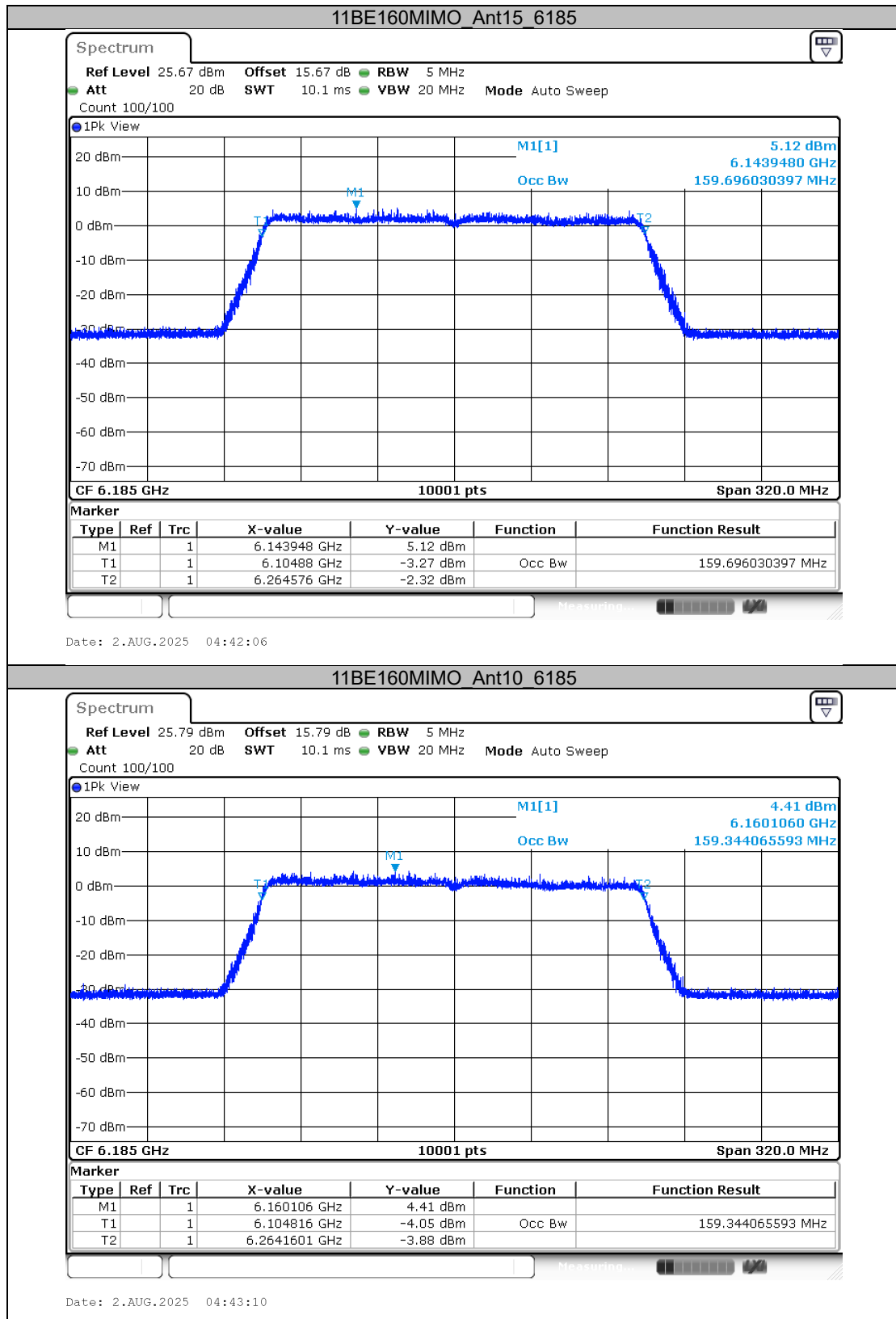


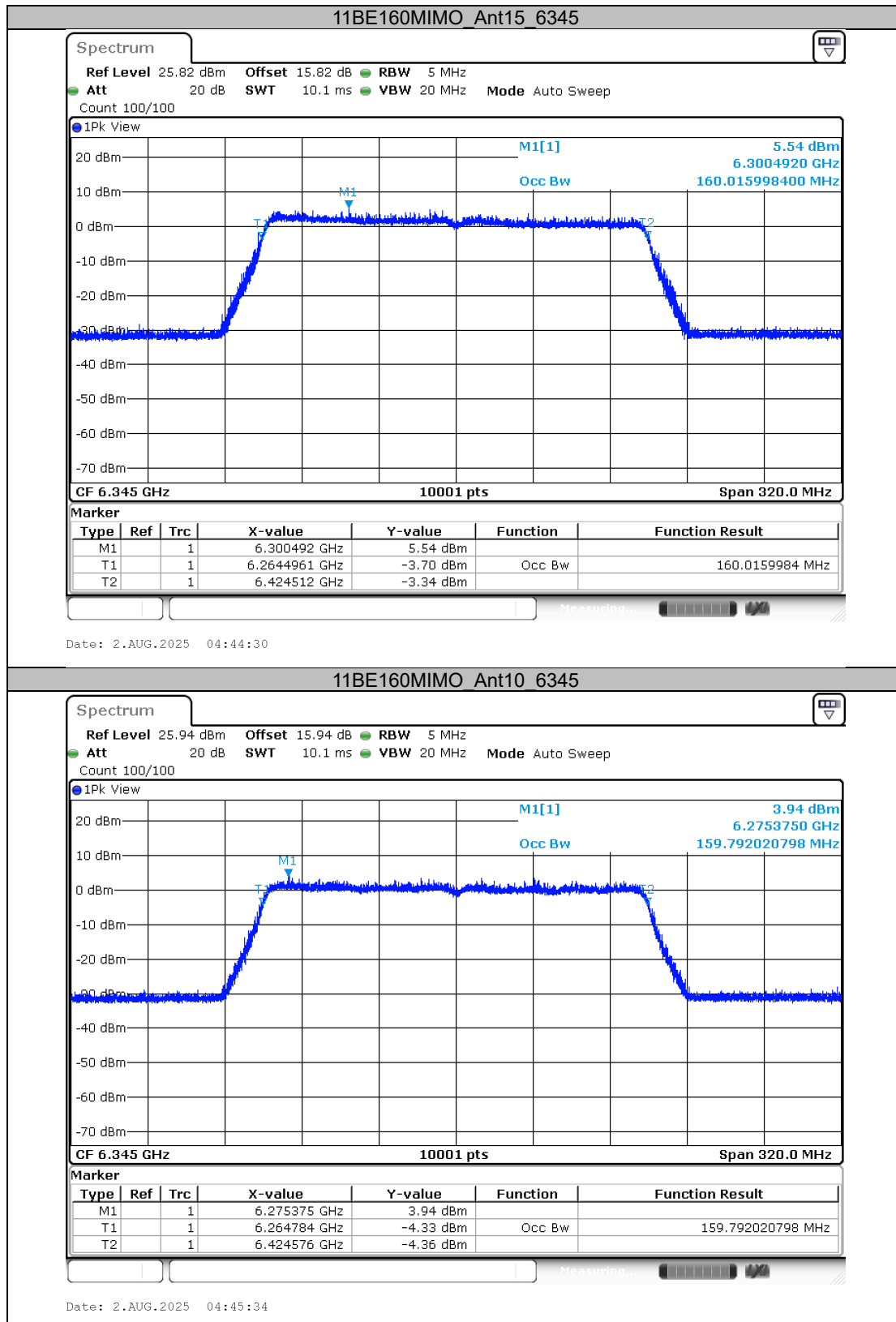


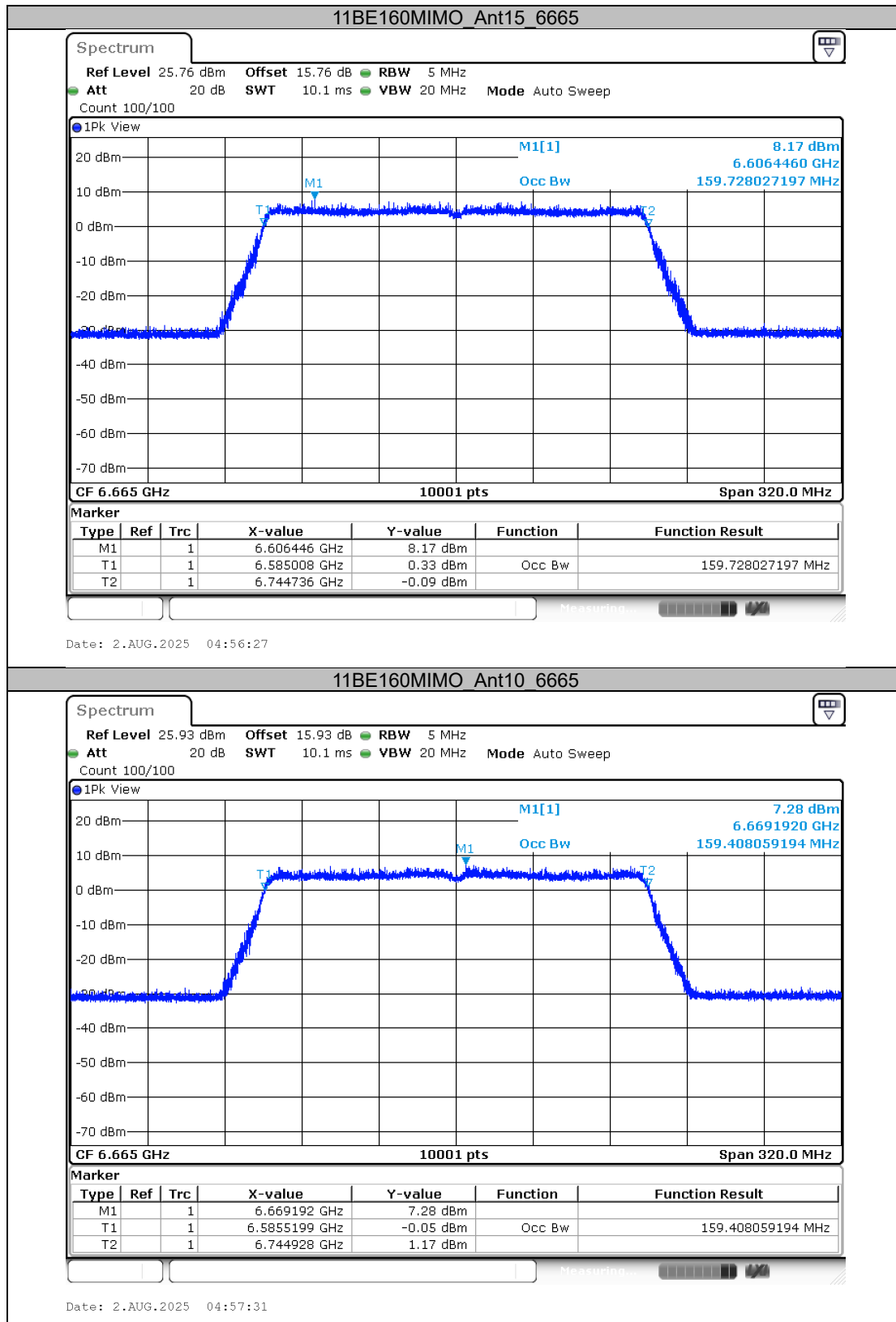


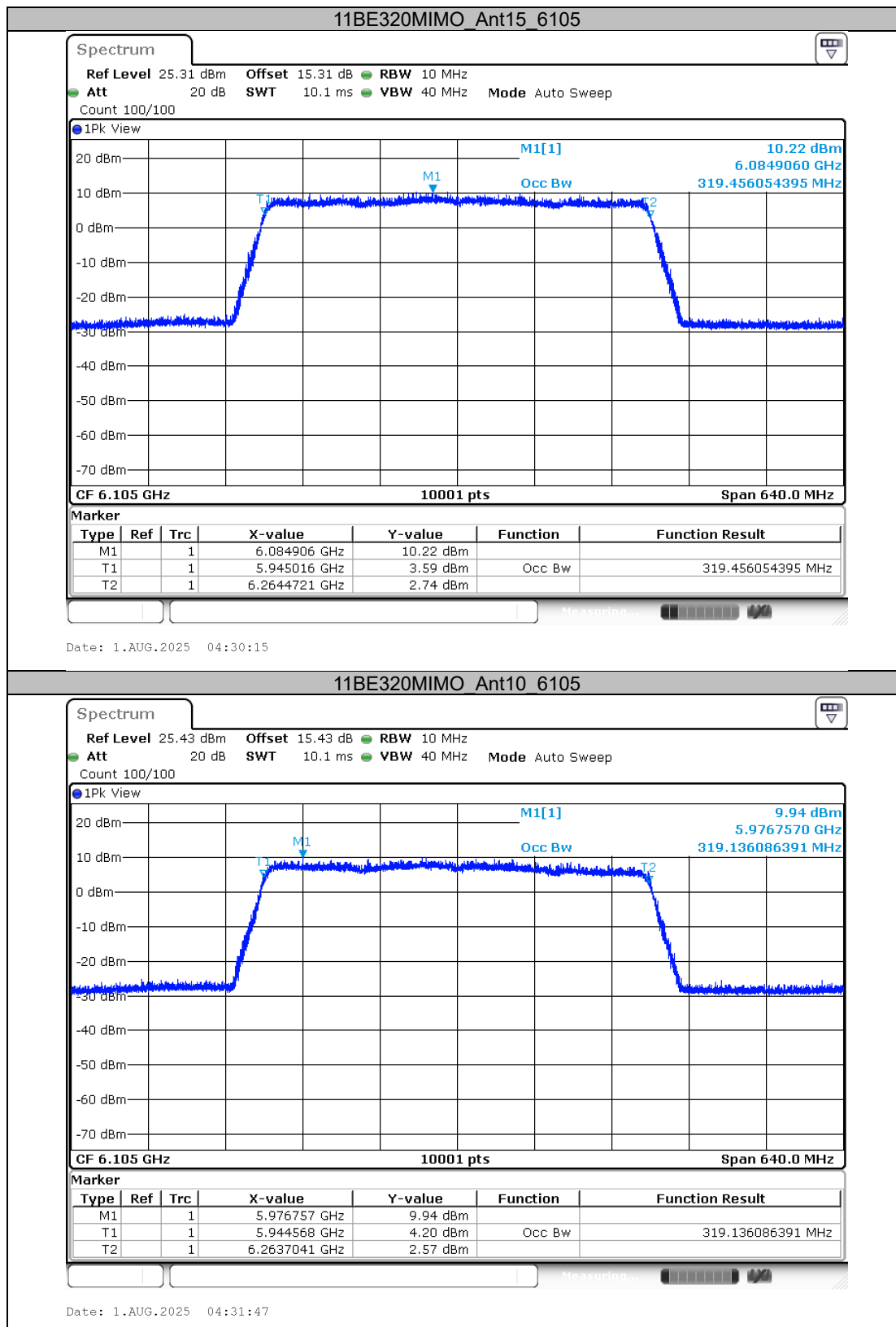
















Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Gain [dBi]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A-CDD	Ant15	5955	-15.08	-1.20	-16.28	≤17.00	PASS
	Ant10	5955	-13.98	-2.10	-16.08	≤17.00	PASS
	total	5955	-11.48	1.37	-10.11	≤17.00	PASS
	Ant15	6175	-13.81	-1.20	-15.01	≤17.00	PASS
	Ant10	6175	-14.66	-2.10	-16.76	≤17.00	PASS
	total	6175	-11.20	1.37	-9.83	≤17.00	PASS
	Ant15	6415	-13.87	-1.20	-15.07	≤17.00	PASS
	Ant10	6415	-13.63	-2.10	-15.73	≤17.00	PASS
	total	6415	-10.74	1.37	-9.37	≤17.00	PASS
	Ant15	6535	-11.42	-2.10	-13.52	≤17.00	PASS
	Ant10	6535	-12.39	-4.60	-16.99	≤17.00	PASS
	total	6535	-8.87	-0.25	-9.12	≤17.00	PASS
	Ant15	6695	-11.57	-2.10	-13.67	≤17.00	PASS
	Ant10	6695	-12.38	-4.60	-16.98	≤17.00	PASS
	total	6695	-8.95	-0.25	-9.20	≤17.00	PASS
	Ant15	6855	-11.86	-2.10	-13.96	≤17.00	PASS
	Ant10	6855	-12.10	-4.60	-16.70	≤17.00	PASS
	total	6855	-8.97	-0.25	-9.22	≤17.00	PASS
11BE20MIMO	Ant15	5955	-15.44	-1.20	-16.64	≤17.00	PASS
	Ant10	5955	-14.46	-2.10	-16.56	≤17.00	PASS
	total	5955	-11.91	1.37	-10.54	≤17.00	PASS
	Ant15	6175	-14.21	-1.20	-15.41	≤17.00	PASS
	Ant10	6175	-14.94	-2.10	-17.04	≤17.00	PASS
	total	6175	-11.55	1.37	-10.18	≤17.00	PASS
	Ant15	6415	-14.24	-1.20	-15.44	≤17.00	PASS
	Ant10	6415	-14.13	-2.10	-16.23	≤17.00	PASS
	total	6415	-11.17	1.37	-9.80	≤17.00	PASS
	Ant15	6535	-12.03	-2.10	-14.13	≤17.00	PASS
	Ant10	6535	-13.36	-4.60	-17.96	≤17.00	PASS
	total	6535	-9.63	-0.25	-9.88	≤17.00	PASS
	Ant15	6695	-12.15	-2.10	-14.25	≤17.00	PASS
	Ant10	6695	-13.51	-4.60	-18.11	≤17.00	PASS



	total	6695	-9.77	-0.25	-10.02	≤17.00	PASS
	Ant15	6855	-12.29	-2.10	-14.39	≤17.00	PASS
	Ant10	6855	-12.64	-4.60	-17.24	≤17.00	PASS
	total	6855	-9.45	-0.25	-9.70	≤17.00	PASS
11BE40MIMO	Ant15	5965	-17.11	-1.20	-18.31	≤17.00	PASS
	Ant10	5965	-16.41	-2.10	-18.51	≤17.00	PASS
	total	5965	-13.74	1.37	-12.37	≤17.00	PASS
	Ant15	6165	-16.07	-1.20	-17.27	≤17.00	PASS
	Ant10	6165	-16.93	-2.10	-19.03	≤17.00	PASS
	total	6165	-13.47	1.37	-12.10	≤17.00	PASS
	Ant15	6405	-15.92	-1.20	-17.12	≤17.00	PASS
	Ant10	6405	-16.03	-2.10	-18.13	≤17.00	PASS
	total	6405	-12.96	1.37	-11.59	≤17.00	PASS
	Ant15	6565	-13.68	-2.10	-15.78	≤17.00	PASS
	Ant10	6565	-14.94	-4.60	-19.54	≤17.00	PASS
	total	6565	-11.25	-0.25	-11.50	≤17.00	PASS
	Ant15	6685	-13.97	-2.10	-16.07	≤17.00	PASS
	Ant10	6685	-13.85	-4.60	-18.45	≤17.00	PASS
	total	6685	-10.90	-0.25	-11.15	≤17.00	PASS
	Ant15	6845	-14.54	-2.10	-16.64	≤17.00	PASS
	Ant10	6845	-14.75	-4.60	-19.35	≤17.00	PASS
	total	6845	-11.63	-0.25	-11.88	≤17.00	PASS
11BE80MIMO	Ant15	5985	-13.78	-1.20	-14.98	≤17.00	PASS
	Ant10	5985	-13.38	-2.10	-15.48	≤17.00	PASS
	total	5985	-10.57	1.37	-9.20	≤17.00	PASS
	Ant15	6145	-13.92	-1.20	-15.12	≤17.00	PASS
	Ant10	6145	-14.13	-2.10	-16.23	≤17.00	PASS
	total	6145	-11.01	1.37	-9.64	≤17.00	PASS
	Ant15	6385	-12.93	-1.20	-14.13	≤17.00	PASS
	Ant10	6385	-12.60	-2.10	-14.70	≤17.00	PASS
	total	6385	-9.75	1.37	-8.38	≤17.00	PASS
	Ant15	6625	-10.67	-2.10	-12.77	≤17.00	PASS
	Ant10	6625	-10.65	-4.60	-15.25	≤17.00	PASS
	total	6625	-7.65	-0.25	-7.90	≤17.00	PASS
	Ant15	6705	-11.11	-2.10	-13.21	≤17.00	PASS
	Ant10	6705	-11.41	-4.60	-16.01	≤17.00	PASS
	total	6705	-8.25	-0.25	-8.50	≤17.00	PASS
	Ant15	6785	-11.15	-2.10	-13.25	≤17.00	PASS



	Ant10	6785	-10.96	-4.60	-15.56	≤17.00	PASS
	total	6785	-8.04	-0.25	-8.29	≤17.00	PASS
11BE160MIMO	Ant15	6025	-14.53	-1.20	-15.73	≤17.00	PASS
	Ant10	6025	-14.98	-2.10	-17.08	≤17.00	PASS
	total	6025	-11.74	1.37	-10.37	≤17.00	PASS
	Ant15	6185	-14.12	-1.20	-15.32	≤17.00	PASS
	Ant10	6185	-14.77	-2.10	-16.87	≤17.00	PASS
	total	6185	-11.42	1.37	-10.05	≤17.00	PASS
	Ant15	6345	-13.76	-1.20	-14.96	≤17.00	PASS
	Ant10	6345	-15.31	-2.10	-17.41	≤17.00	PASS
	total	6345	-11.46	1.37	-10.09	≤17.00	PASS
	Ant15	6665	-11.68	-2.10	-13.78	≤17.00	PASS
	Ant10	6665	-11.90	-4.60	-16.50	≤17.00	PASS
	total	6665	-8.78	-0.25	-9.03	≤17.00	PASS
11BE320MIMO	Ant15	6105	-11.65	-1.20	-12.85	≤17.00	PASS
	Ant10	6105	-12.04	-2.10	-14.14	≤17.00	PASS
	total	6105	-8.83	1.37	-7.46	≤17.00	PASS
	Ant15	6265	-10.79	-1.20	-11.99	≤17.00	PASS
	Ant10	6265	-11.62	-2.10	-13.72	≤17.00	PASS
	total	6265	-8.17	1.37	-6.80	≤17.00	PASS

Note: 1.The Duty Cycle Factor and is compensated in the graph.



Test Graphs

