

RF TEST REPORT

FCC ID: 2BALL-EPC11C

Test Report No.....: RF260326671-03-002

Product(s) Name.....: Camtells Cee

Model(s).....: EPC11C

Trade Mark.....: N/A

Applicant.....: Chengdu EAPIL Technology Co.,Ltd

Address.....: Room 1505-1506, Pioneering Building G5, Innovation Center, 1858,
Middle Section of Yizhou Avenue, Gaoxin District, Chengdu,
China(Sichuan)Pilot Free Trade Zone

Receipt Date.....: 2026.05.12

Test Date.....: 2026.06.23 ~ 2026.07.10

Issued Date.....: 2026.07.13

Standards.....: 47 CFR FCC Part 15, Subpart E(Section 15.407);
ANSI C63.10-2020+Cor. 1-2023

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Lemon He	Black Ding	Tim Zhang	
Lemon He	Black Ding	Tim.zhang	

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History of this test report

Original Report Issue Date: 2026.07.13

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

Chengdu EAPIL Technology Co.,Ltd

Room 1505-1506, Pioneering Building G5, Innovation Center, 1858, Middle Section of Yizhou Avenue, Gaoxin District, Chengdu, China(Sichuan)Pilot Free Trade Zone

1.2 Manufacturer

Chengdu EAPIL Technology Co.,Ltd

Room 1505-1506, Pioneering Building G5, Innovation Center, 1858, Middle Section of Yizhou Avenue, Gaoxin District, Chengdu, China(Sichuan)Pilot Free Trade Zone

1.3 Basic Description of Equipment Under Test

Sample No.	POC260326671-S003	
Product name	Camtells Cee	
Model name	EPC11C	
Trade Mark	N/A	
Power supply	DC 5V from adapter	
Adapter information	Model name: AS24PD-0503000USC Input: 100-240V~ 50/60Hz, 0.6A MAX Output: 5.0V==3.0A	
Operate temperature	-10℃~45℃	
EUT Stage	○ Product Unit	● Final-Sample
Operating Band & Max Conducted Output Power	5150MHz ~5250MHz	802.11ax40: 14.81dBm(0.03W)
	5725MHz ~5850MHz	802.11a: 15.91dBm(0.039W)
Product Type	IEEE 802.11a/n/ac/ax: WLAN(SISO)	
Nominal Bandwidth	20MHz / 40MHz / 80MHz	
Antenna gain	2.42dBi	
Antenna type	FPC Antenna	
Modulation	OFDM, OFDMA	
Data Rate (Mbps)	IEEE 802.11a mode : 6/9/12/18/24/36/48/54 IEEE 802.11n mode : up to 150 IEEE 802.11ac mode : up to 433.3 IEEE 802.11ax mode : up to 600.5	
Type of Device	Slaver device	

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac /ax (20MHz)	5180-5240	36-48
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac /ax (40MHz)	5190-5230	38-46
5725-5850		5755-5795	151-159
5150-5250	802.11ac /ax (80MHz)	5210	42
5725-5850		5775	155

1.4 Transmit Operating Mode

Transmit Operating Mode					Transmit Multiple Antennas					
☒	Operating mode 1 (single antenna)				☒	1TX				
☐	Operating mode 2 (multiple antenna, no beam forming)				☐	2TX	☐	3TX	☐	4TX
☐	Operating mode 3 (multiple antenna, with beam forming)				☐	2TX	☐	3TX	☐	4TX
☒	802.11a	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11n(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11n(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ac(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ac(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ac(80MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ax(20MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ax(40MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX
☒	802.11ax(80MHz)	Operating mode	☒	1TX	☐	2TX	☐	3TX	☐	4TX

Note: For 802.11ax mode only support full RU mode.

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Test item	Standard	Results	Remarks
AC Power Conducted Emission	15.207 15.407(b)	Pass	Meet the requirement of the limit
Radiated Emission	15.205(a) 15.209(a) 15.407(b)	Pass	Meet the requirement of the limit
Antenna Requirements	15.203	Compliance	Note 1
Spectrum Bandwidth	15.407(a) 15.407(e)	Pass	Meet the requirement of the limit
Conducted Output Power	15.407(a)	Pass	Meet the requirement of the limit
Power Spectral Density	15.407(a)	Pass	Meet the requirement of the limit
Frequency Stability	15.407(g)	---	Note 2
Note: 1. The EUT has one FPC antennas arrangement which was permanently attached. 2. The item is declared by the manufacturer.			

2.2 Application of Standard

47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

ANSI C63.10-2020+Cor. 1-2023

2.3 Test Instruments

No.	Name of Equipment	Manufacturer	Model Number	Serial Number	Inventory No.	Last Calibration	Due Calibration
Radiated Emission							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2026/2/27	2027/2/26
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2028/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2026/2/27	2027/2/26
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2026/2/27	2027/2/26
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2028/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2026/4/8	2027/4/7
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB1519B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2026/2/27	2027/2/26
10	Filter	dsusoft	ZBSF6-C5170-5330-544	07227557	/	N/A	N/A
11	Filter	dsusoft	ZBSF6-C5495-5705-1309	07227558	/	N/A	N/A
12	Filter	dsusoft	ZBSF6-C5745-5830-1310	07227559	/	N/A	N/A
13	Filter	dsusoft	ZBSF6-C2400-2483.5-543	07227559	/	N/A	N/A
14	10dB attenuator	dsusoft	10dB	/	/	N/A	N/A
15	Filter	dsusoft	ZBSF6-C3000-18000-174	07227597	/	N/A	N/A
16	Filter	dsusoft	ZBSF6-C6500-18000-547	07227595	/	N/A	N/A
17	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2026/2/27	2027/2/26
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2026/2/27	2027/2/26
3	ISN	Schwarzbeck	CAT 3 8158	00187	JLE032	2026/2/27	2027/2/26
4	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2026/2/27	2027/2/26
5	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2026/2/27	2027/2/26
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2026/4/8	2027/4/7
7	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emissions							
1	MXA Signal Analyzer	Keysight	N9010A	MY51440158	JLE087	2025/9/15	2026/9/14
2	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	6625-01-588-5515	JLE120	2026/1/19	2027/1/18
3	RF Control Unit	dsusoft	JS0806-2	21G8060449	JLE053	2026/2/27	2027/2/26
4	power supply unit	dsusoft	JS0806-4ADC	N/A	JLE055	2026/2/27	2027/2/26
5	VXG Signal Generator	Keysight	N5182B	MY59100855	JLE068	2026/4/8	2027/4/7
6	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	JLE052	2026/2/27	2027/2/26
7	Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	1201.0002K5 0-116064-Dt	JLE054	2026/2/27	2027/2/26
8	Test software	dsusoft	JS1120-3 Ver.3.2.22.0				

2.4 Operation Mode

The EUT was supplied by and it was run in TX mode that was controlled by Master provided RF testing program. The worst case test result was showed in the report.

2.5 Test Condition

Test Item	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	22.5°C, 52% RH	AC 120V/60Hz	Keith Huang
Radiated Emission	23.1°C, 54% RH	AC 120V/60Hz	Lemon He
Spectrum Bandwidth	23.7°C, 51% RH	DC 5V	Elio Lin
Conducted Power	23.7°C, 51% RH	DC 5V	Elio Lin
Power Spectral Density	23.7°C, 51% RH	DC 5V	Elio Lin

Note: Adapter supply voltage AC 120V/60Hz.

The applicant declare the operating environment of EUT as below:

Normal conditions: 5V DC, 0~45°C

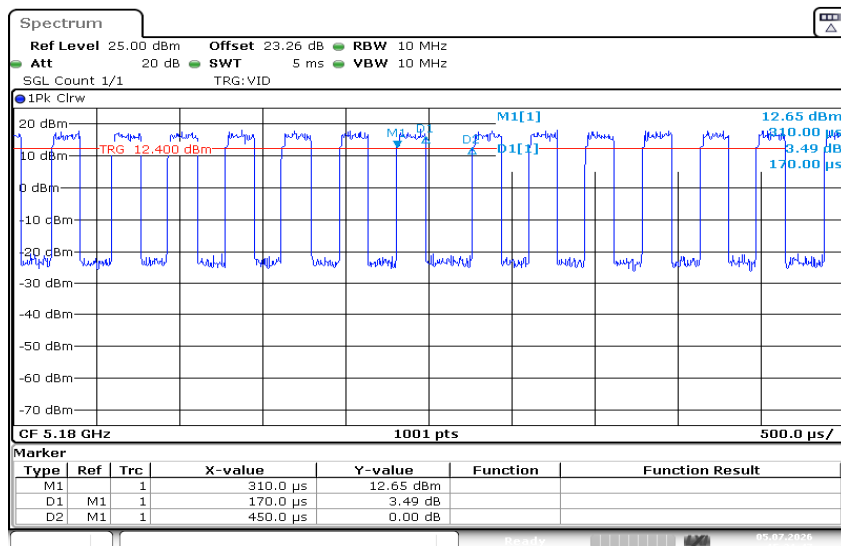
2.6 Duty Cycle of Test Signal

If duty cycle is $\geq 98\%$, duty factor is not required.

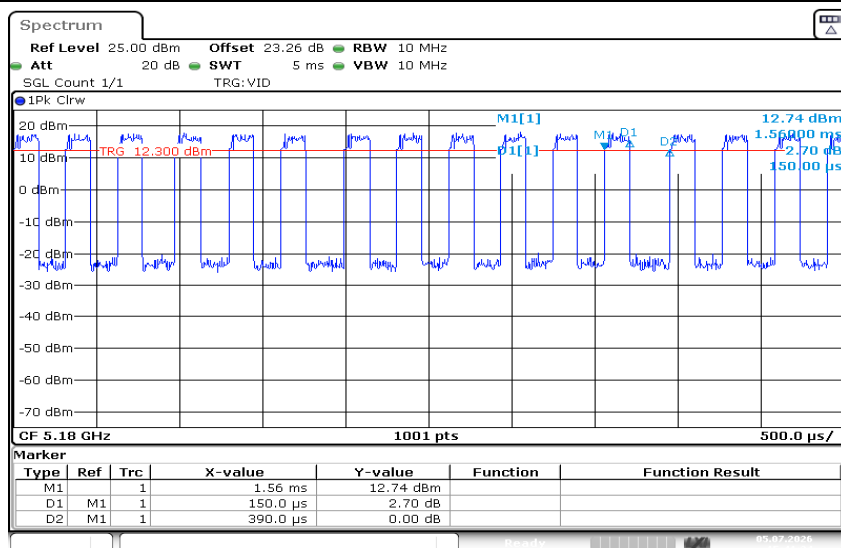
If duty cycle is $< 98\%$, duty factor shall be considered.

All the duty factor of other test mode have been considered.

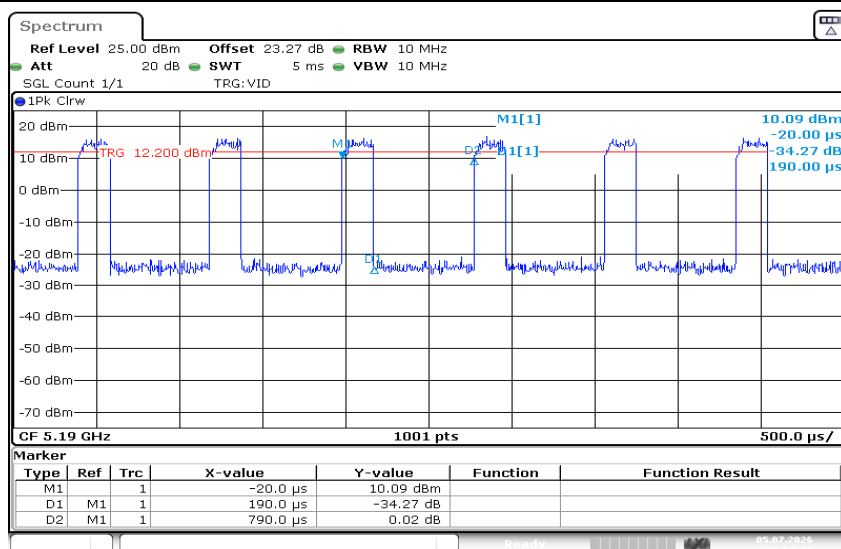
Test Mode	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	5180	0.17	0.45	37.78
11N20SISO	5180	0.15	0.39	38.46
11N40SISO	5190	0.19	0.79	24.05
11AC20SISO	5180	0.68	1.32	51.52
11AC40SISO	5190	0.12	0.73	16.44
11AC80SISO	5210	0.19	0.82	23.17
11AX20SISO	5180	0.20	0.80	25.00
11AX40SISO	5190	0.32	0.95	33.68
11AX80SISO	5210	0.19	0.82	23.17



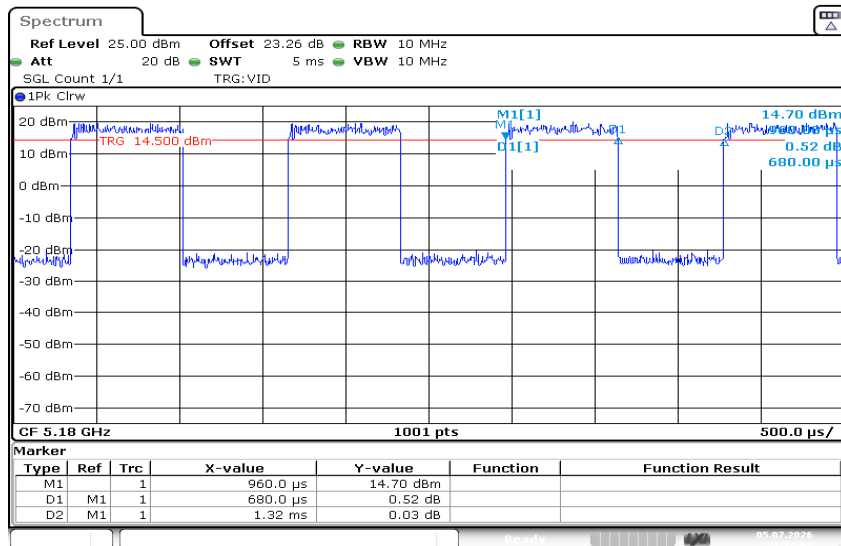
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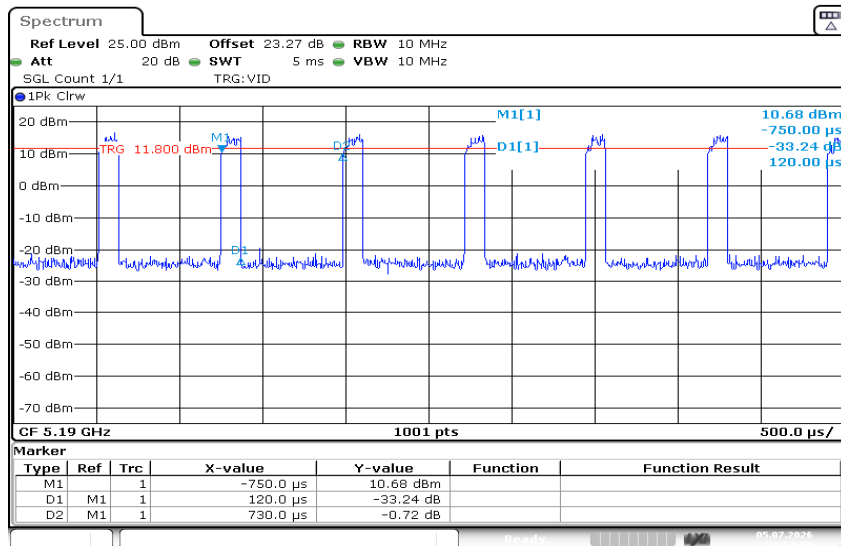
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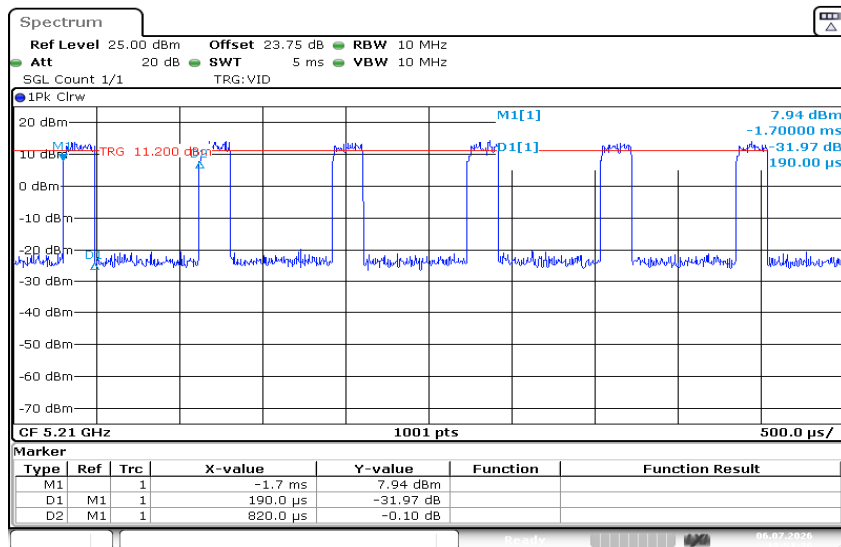
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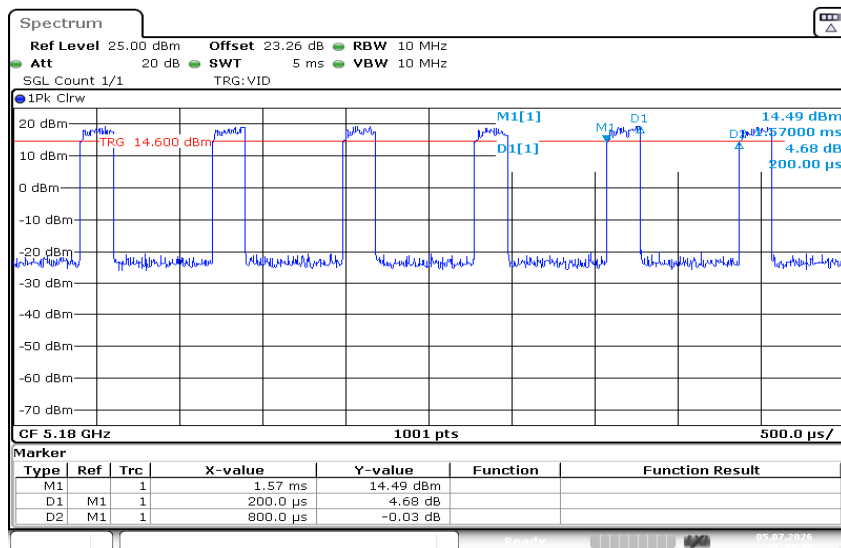
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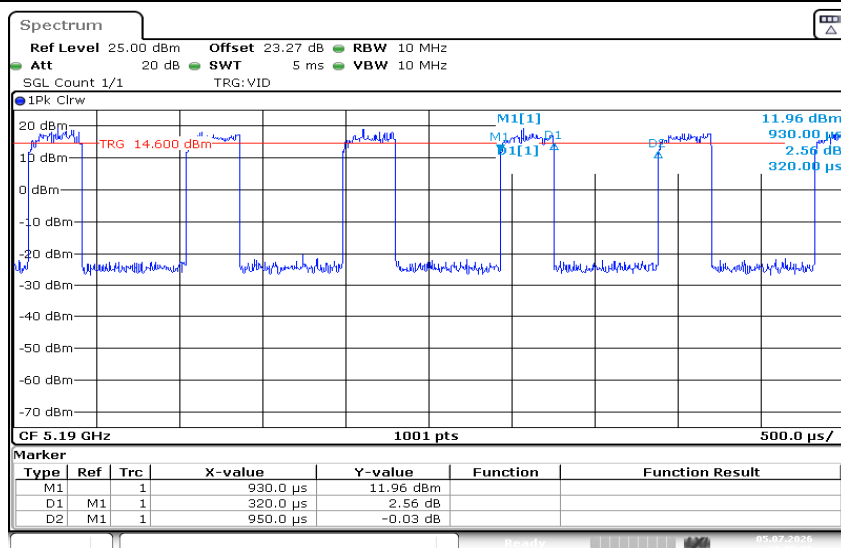
NTNV-11AC40SISO-Ant1-5190



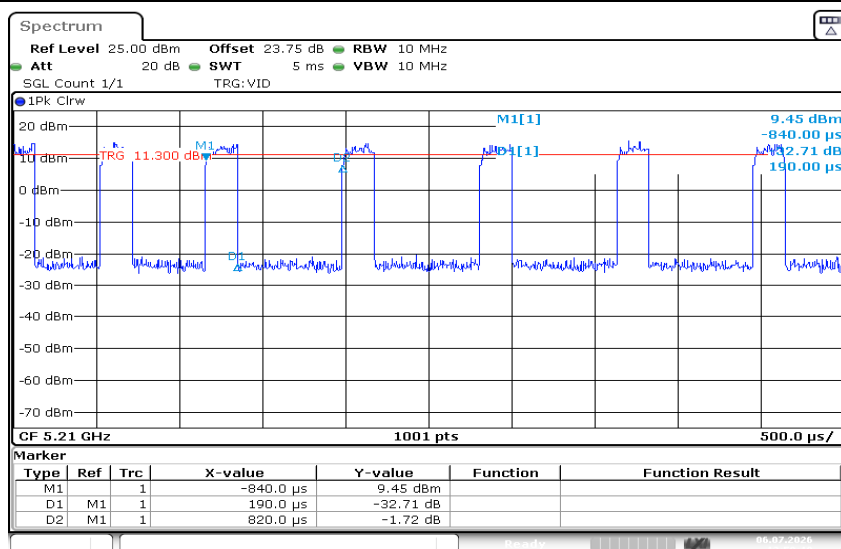
NTNV-11AC80SISO-Ant1-5210



NTNV-11AX20SISO-Ant1-5180



NTNV-11AX40SISO-Ant1-5190



NTNV-11AX80SISO-Ant1-5210

2.7 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 102\text{kHz}$
Power Spectral Density	$\pm 0.243\text{dB}$
Conducted Spurious Emission	$\pm 0.743\text{dB}$
RF power conducted	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.8 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
FCC Designation Number	CN1340
CAB identifier:	CN0145
A2LA Certificate Number:	6823.01

2.9 SUPPORT UNITS

No.	Equipment	Model	Manufacturer	Series No
1	PC	M4500T	Thinkpad	M032004854IT

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

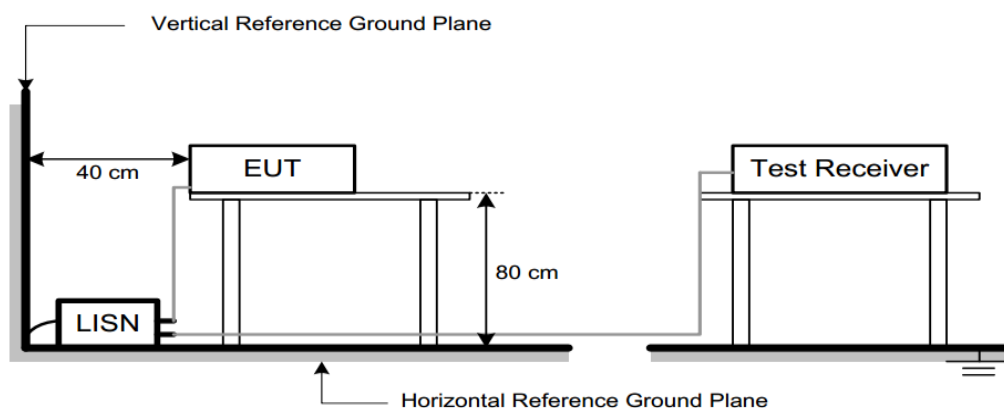
2. The lower limit shall apply at the transition frequencies.

3.1.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
○ Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

3.1.3 Test Setup



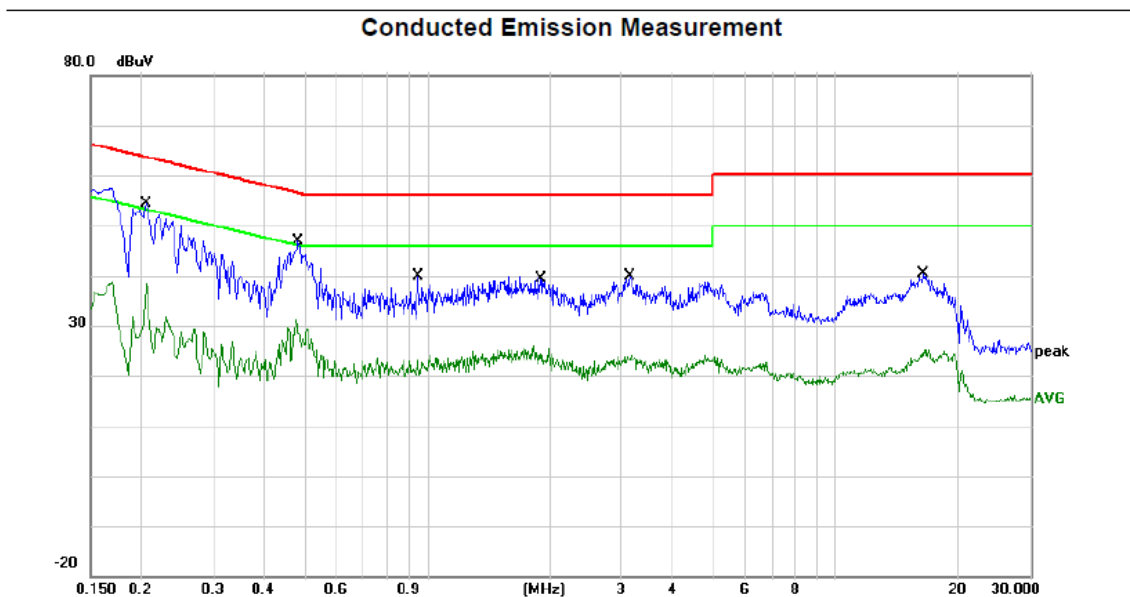
3.1.4 Test Result

Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading + Correct Factor.
3. Over = Measurement – Limit
4. The TX 11A Mode Channel 149 is found to be the worst case and recorded.

150kHz~30MHz	TX 11A Mode Channel 149
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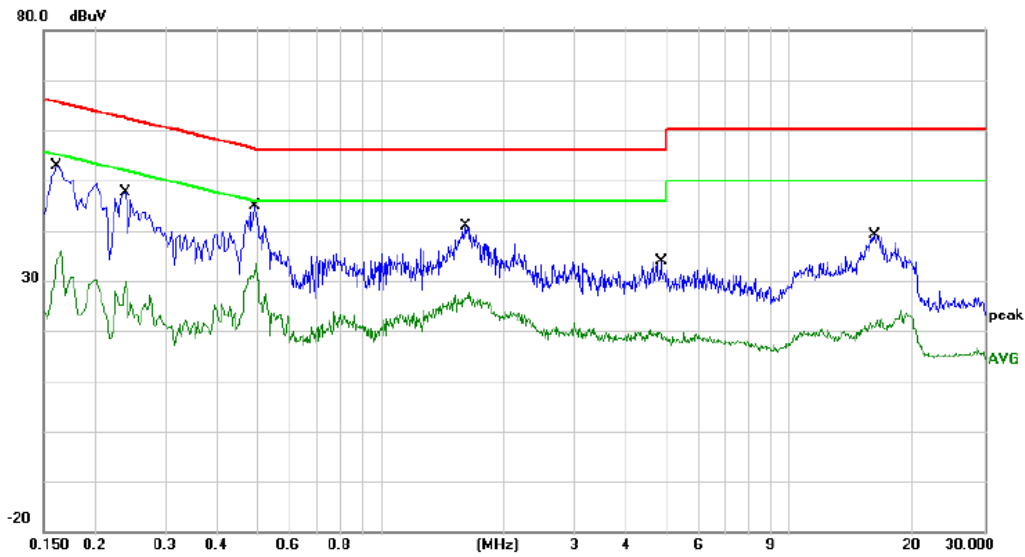
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2075	25.35	19.55	44.90	63.30	-18.40	QP	
2		0.2075	6.96	19.55	26.51	53.30	-26.79	AVG	
3	*	0.4860	23.11	19.27	42.38	56.24	-13.86	QP	
4		0.4860	9.98	19.27	29.25	46.24	-16.99	AVG	
5		0.9552	9.39	19.29	28.68	56.00	-27.32	QP	
6		0.9552	0.64	19.29	19.93	46.00	-26.07	AVG	
7		1.9038	10.12	19.26	29.38	56.00	-26.62	QP	
8		1.9038	1.44	19.26	20.70	46.00	-25.30	AVG	
9		3.1142	10.89	19.32	30.21	56.00	-25.79	QP	
10		3.1142	0.99	19.32	20.31	46.00	-25.69	AVG	
11		16.4074	14.65	19.38	34.03	60.00	-25.97	QP	
12		16.4074	2.61	19.38	21.99	50.00	-28.01	AVG	

Neutral

Conducted Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1621	28.34	19.48	47.82	65.36	-17.54	QP	
2		0.1621	9.33	19.48	28.81	55.36	-26.55	AVG	
3		0.2375	22.67	19.56	42.23	62.18	-19.95	QP	
4		0.2375	7.06	19.56	26.62	52.18	-25.56	AVG	
5		0.4961	19.76	19.56	39.32	56.07	-16.75	QP	
6 *		0.4961	10.84	19.56	30.40	46.07	-15.67	AVG	
7		1.6265	15.71	19.52	35.23	56.00	-20.77	QP	
8		1.6265	6.46	19.52	25.98	46.00	-20.02	AVG	
9		4.8380	5.07	19.43	24.50	56.00	-31.50	QP	
10		4.8380	-0.93	19.43	18.50	46.00	-27.50	AVG	
11		16.1267	11.36	19.42	30.78	60.00	-29.22	QP	
12		16.1267	-0.05	19.42	19.37	50.00	-30.63	AVG	

3.2 Radiated Emission

3.2.1 Limit

1) Limit of radiated emission measurement:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Distance Meters(m)	Field Strength Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 – 0.49	300	$2400/\text{F}(\text{kHz})$	-
0.490 – 1.705	30	$24000/\text{F}(\text{kHz})$	-
1.705 – 30	30	30	-
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

2) Limit of unwanted emission out of the restricted bands:

Frequency(MHz)	EIRP Limit(dBm/MHz)	Equivalent Field Strength at 3m($\text{dB}\mu\text{V}/\text{m}$)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850	-27 NOTE (2)	68.2
	10 NOTE (2)	105.2
	15.6 NOTE (2)	110.8
	27 NOTE (2)	122.2

Note: (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d=3\text{m}$

(2) According to 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.

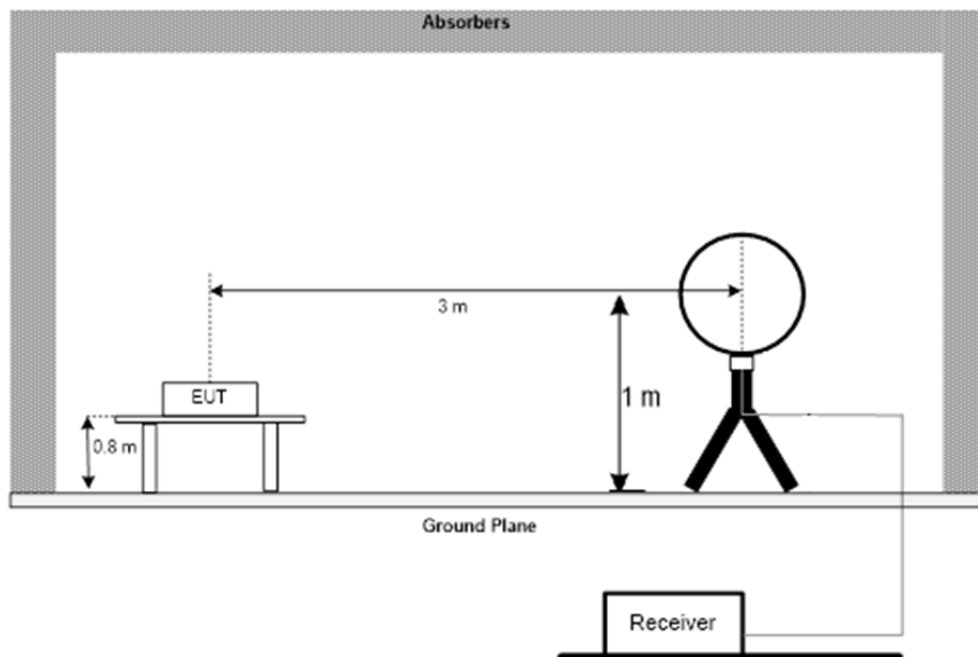
3.2.2 Test Procedure

Test Method	
○Conducted Measurement	●Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

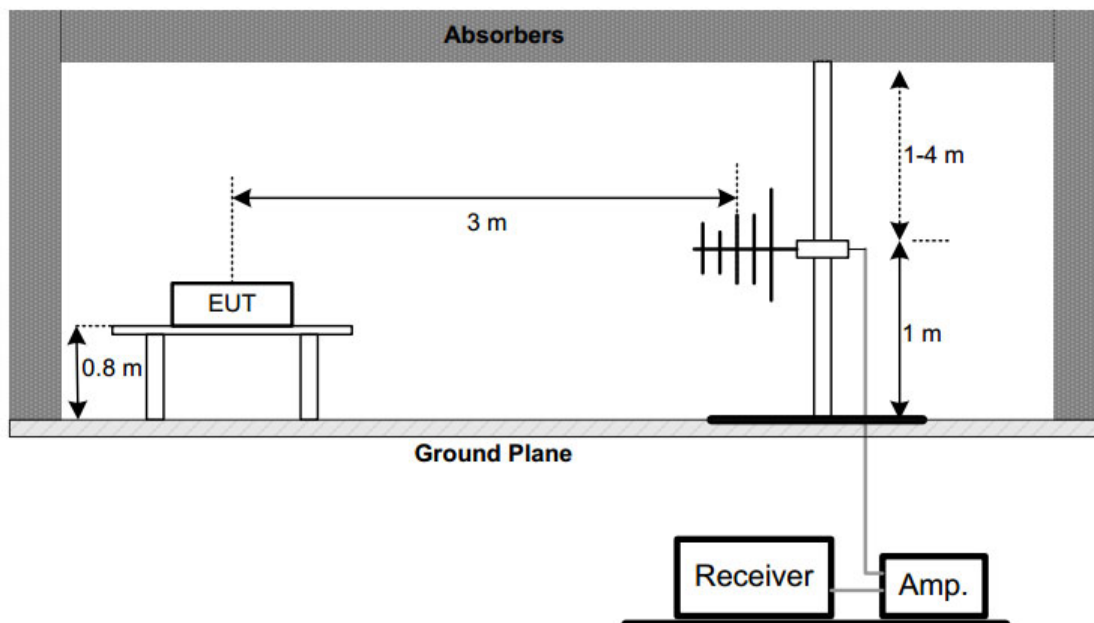
- a) The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1 GHz)
- b) The measuring distance of 3 m or 1.5m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (above 1GHz)
- c) The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e) The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f) The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h) All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i) For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.3 Test Setup

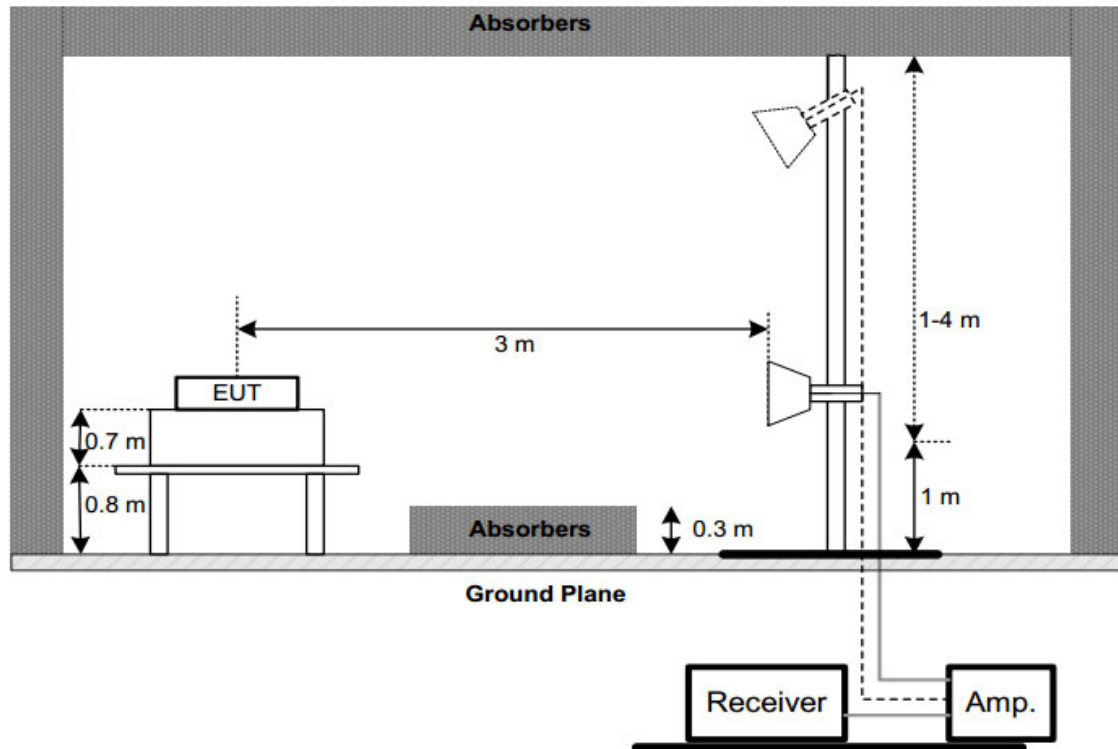
(A) Radiated Emission Test Set-Up Frequency Below 30 MHz



(B) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



(C) Radiated Emission Test Set-Up Frequency Above 1 GHz



3.2.4 Test Result

1) Radiated emission: 9kHz-30MHz

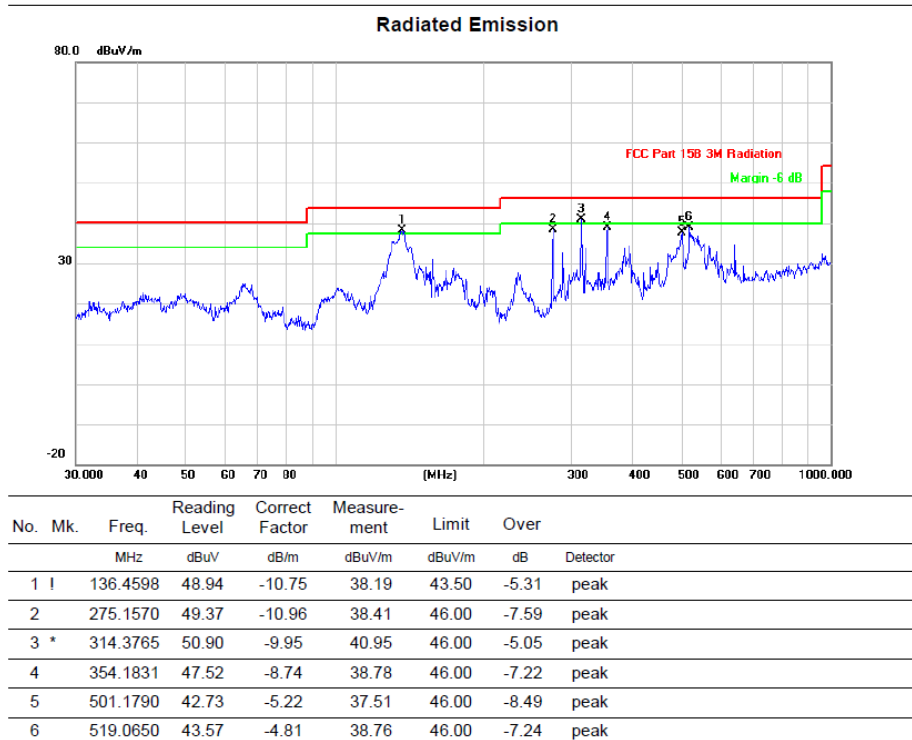
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not recorded in this report.

2) Radiated emission: 30MHz-1GHz

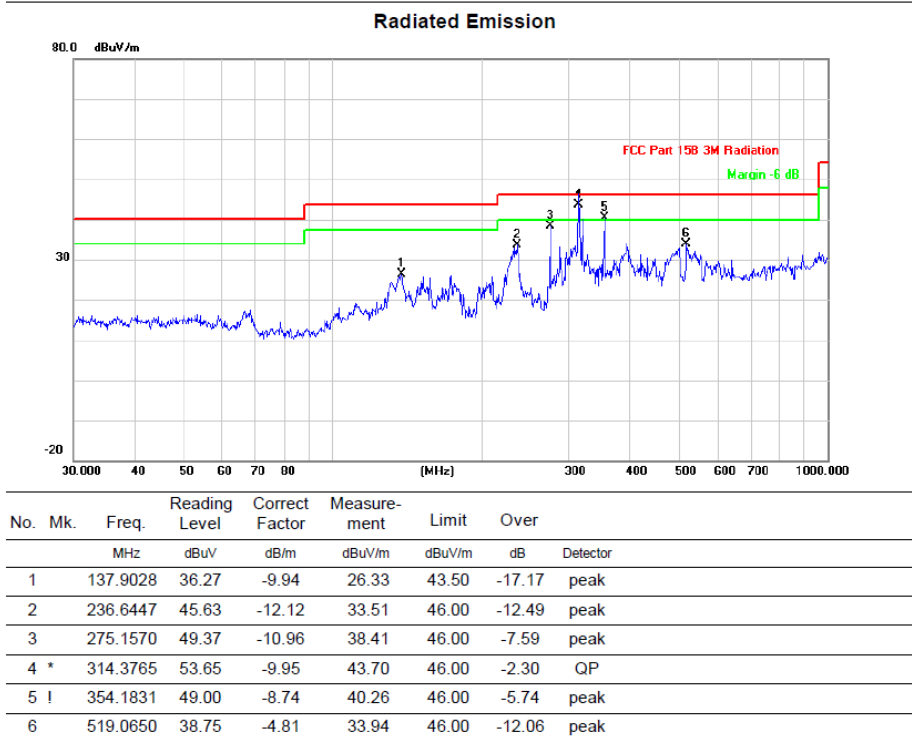
Note:

1. Measurement = Reading + Correct Factor.
2. Over = Measurement – Limit
3. The TX 11A Mode Channel 149 is found to be the worst case and recorded.

VERTICAL



HORIZONTAL



3) Radiated emission: Above 1GHz

Frequency (MHz)	Read Level (dBμV)	Polarization	Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
11A TX CH36							
4500.00	41.01	H	4.45	45.46	74.00	28.54	peak
5150.00	40.73	H	6.04	46.77	74.00	27.23	peak
10360.00	39.73	H	7.25	46.98	68.20	21.22	peak
4500.00	41.36	V	4.45	45.81	74.00	28.19	peak
5150.00	41.44	V	6.04	47.48	74.00	26.52	peak
10360.00	40.80	V	7.25	48.05	68.20	20.15	peak
11A TX CH40							
10400.00	39.98	H	7.39	47.37	68.20	20.83	peak
10400.00	40.89	V	7.39	48.28	68.20	19.92	peak
11A TX CH48							
10480.00	39.89	H	7.60	47.49	68.20	20.71	peak
10480.00	40.74	V	7.60	48.34	68.20	19.86	peak
11A TX CH149							
5650.00	42.84	H	5.72	48.56	68.20	19.64	peak
5700.00	43.44	H	6.00	49.44	105.20	55.76	peak
5720.00	52.62	H	5.82	58.44	110.80	52.36	peak
5725.00	59.00	H	5.78	64.78	122.20	57.42	peak
11490.00	38.86	H	7.76	46.62	74.00	27.38	peak
5650.00	43.56	V	5.72	49.28	68.20	18.92	peak
5700.00	44.97	V	6.00	50.97	105.20	54.23	peak
5720.00	53.40	V	5.82	59.22	110.80	51.58	peak
5725.00	59.67	V	5.78	65.45	122.20	56.75	peak
11490.00	39.55	V	7.76	47.31	74.00	26.69	peak
11A TX CH157							
11570.00	38.94	H	7.60	46.54	74.00	27.46	peak
11570.00	39.62	V	7.60	47.22	74.00	26.78	peak
11A TX CH165							
5850.00	52.68	H	6.79	59.47	122.20	62.73	peak
5855.00	48.43	H	6.72	55.15	110.80	55.65	peak
5875.00	44.27	H	6.46	50.73	105.20	54.47	peak
5925.00	41.98	H	6.46	48.44	68.20	19.76	peak
11650.00	39.04	H	7.45	46.49	74.00	27.51	peak
5850.00	54.74	V	6.79	61.53	122.20	60.67	peak
5855.00	49.55	V	6.72	56.27	110.80	54.53	peak
5875.00	45.03	V	6.46	51.49	105.20	53.71	peak
5925.00	42.92	V	6.46	49.38	68.20	18.82	peak
11650.00	39.91	V	7.45	47.36	74.00	26.64	peak
11N20 TX CH36							
4500.00	41.06	H	4.45	45.51	74.00	28.49	peak
5150.00	40.78	H	6.04	46.82	74.00	27.18	peak

10360.00	39.61	H	7.25	46.86	68.20	21.34	peak
4500.00	41.53	V	4.45	45.98	74.00	28.02	peak
5150.00	41.56	V	6.04	47.60	74.00	26.40	peak
10360.00	40.72	V	7.25	47.97	68.20	20.23	peak
11N20 TX CH40							
10400.00	39.94	H	7.39	47.33	68.20	20.87	peak
10400.00	40.87	V	7.39	48.26	68.20	19.94	peak
11N20 TX CH48							
10480.00	39.81	H	7.60	47.41	68.20	20.79	peak
10480.00	40.70	V	7.60	48.30	68.20	19.90	peak
11N20 TX CH149							
5650.00	42.90	H	5.72	48.62	68.20	19.58	peak
5700.00	43.56	H	6.00	49.56	105.20	55.64	peak
5720.00	52.81	H	5.82	58.63	110.80	52.17	peak
5725.00	59.10	H	5.78	64.88	122.20	57.32	peak
11490.00	38.99	H	7.76	46.75	74.00	27.25	peak
5650.00	43.62	V	5.72	49.34	68.20	18.86	peak
5700.00	45.14	V	6.00	51.14	105.20	54.06	peak
5720.00	53.55	V	5.82	59.37	110.80	51.43	peak
5725.00	59.93	V	5.78	65.71	122.20	56.49	peak
11490.00	39.66	V	7.76	47.42	74.00	26.58	peak
11N20 TX CH157							
11570.00	39.01	H	7.60	46.61	74.00	27.39	peak
11570.00	39.66	V	7.60	47.26	74.00	26.74	peak
11N20 TX CH165							
5850.00	52.80	H	6.79	59.59	122.20	62.61	peak
5855.00	48.65	H	6.72	55.37	110.80	55.43	peak
5875.00	44.48	H	6.46	50.94	105.20	54.26	peak
5925.00	41.91	H	6.46	48.37	68.20	19.83	peak
11650.00	39.11	H	7.45	46.56	74.00	27.44	peak
5850.00	54.90	V	6.79	61.69	122.20	60.51	peak
5855.00	49.80	V	6.72	56.52	110.80	54.28	peak
5875.00	45.28	V	6.46	51.74	105.20	53.46	peak
5925.00	42.99	V	6.46	49.45	68.20	18.75	peak
11650.00	40.05	V	7.45	47.50	74.00	26.50	peak
11N40 TX CH38							
4500.00	40.69	H	4.45	45.14	74.00	28.86	peak
5150.00	40.43	H	6.04	46.47	74.00	27.53	peak
10380.00	40.27	H	7.32	47.59	68.20	20.61	peak
4500.00	40.91	V	4.45	45.36	74.00	28.64	peak
5150.00	41.65	V	6.04	47.69	74.00	26.31	peak
10380.00	41.12	V	7.32	48.44	68.20	19.76	peak
11N40 TX CH46							
10460.00	40.08	H	7.55	47.63	68.20	20.57	peak

10460.00	40.99	V	7.55	48.54	68.20	19.66	peak
11N40 TX CH151							
5650.00	43.51	H	6.22	49.73	68.20	18.47	peak
5700.00	47.18	H	6.50	53.68	105.20	51.52	peak
5720.00	56.65	H	6.32	62.97	110.80	47.83	peak
5725.00	59.53	H	6.28	65.81	122.20	56.39	peak
11510.00	39.40	H	8.26	47.66	74.00	26.34	peak
5650.00	44.33	V	6.22	50.55	68.20	17.65	peak
5700.00	49.12	V	6.50	55.62	105.20	49.58	peak
5720.00	58.14	V	6.32	64.46	110.80	46.34	peak
5725.00	61.03	V	6.28	67.31	122.20	54.89	peak
11510.00	40.10	V	8.26	48.36	74.00	25.64	peak
11N40 TX CH159							
5850.00	49.37	H	7.29	56.66	122.20	65.54	peak
5855.00	46.20	H	7.22	53.42	110.80	57.38	peak
5875.00	43.62	H	6.96	50.58	105.20	54.62	peak
5925.00	42.51	H	6.96	49.47	68.20	18.73	peak
11590.00	38.43	H	8.04	46.47	74.00	27.53	peak
5850.00	50.12	V	7.29	57.41	122.20	64.79	peak
5855.00	46.76	V	7.22	53.98	110.80	56.82	peak
5875.00	44.21	V	6.96	51.17	105.20	54.03	peak
5925.00	43.35	V	6.96	50.31	68.20	17.89	peak
11590.00	39.54	V	8.04	47.58	74.00	26.42	peak
11AC20 TX CH36							
4500.00	40.90	H	4.45	45.35	74.00	28.65	peak
5150.00	40.90	H	6.04	46.94	74.00	27.06	peak
10360.00	39.68	H	7.25	46.93	68.20	21.27	peak
4500.00	41.42	V	4.45	45.87	74.00	28.13	peak
5150.00	41.77	V	6.04	47.81	74.00	26.19	peak
10360.00	40.61	V	7.25	47.86	68.20	20.34	peak
11AC20 TX CH40							
10400.00	40.00	H	7.39	47.39	68.20	20.81	peak
10400.00	40.92	V	7.39	48.31	68.20	19.89	peak
11AC20 TX CH48							
10480.00	39.66	H	7.60	47.26	68.20	20.94	peak
10480.00	40.73	V	7.60	48.33	68.20	19.87	peak
11AC20 TX CH149							
5650.00	42.72	H	5.72	48.44	68.20	19.76	peak
5700.00	43.69	H	6.00	49.69	105.20	55.51	peak
5720.00	52.59	H	5.82	58.41	110.80	52.39	peak
5725.00	59.55	H	5.78	65.33	122.20	56.87	peak
11490.00	39.11	H	7.76	46.87	74.00	27.13	peak
5650.00	43.52	V	5.72	49.24	68.20	18.96	peak
5700.00	45.03	V	6.00	51.03	105.20	54.17	peak
5720.00	53.29	V	5.82	59.11	110.80	51.69	peak

5725.00	60.08	V	5.78	65.86	122.20	56.34	peak
11490.00	39.83	V	7.76	47.59	74.00	26.41	peak
11AC20 TX CH157							
11570.00	39.15	H	7.60	46.75	74.00	27.25	peak
11570.00	39.72	V	7.60	47.32	74.00	26.68	peak
11AC20 TX CH165							
5850.00	53.07	H	6.79	59.86	122.20	62.34	peak
5855.00	48.59	H	6.72	55.31	110.80	55.49	peak
5875.00	44.37	H	6.46	50.83	105.20	54.37	peak
5925.00	41.77	H	6.46	48.23	68.20	19.97	peak
11650.00	39.24	H	7.45	46.69	74.00	27.31	peak
5850.00	55.15	V	6.79	61.94	122.20	60.26	peak
5855.00	49.98	V	6.72	56.70	110.80	54.10	peak
5875.00	45.46	V	6.46	51.92	105.20	53.28	peak
5925.00	42.73	V	6.46	49.19	68.20	19.01	peak
11650.00	39.88	V	7.45	47.33	74.00	26.67	peak
11AC40 TX CH38							
4500.00	40.62	H	4.45	45.07	74.00	28.93	peak
5150.00	40.31	H	6.04	46.35	74.00	27.65	peak
10380.00	40.10	H	7.32	47.42	68.20	20.78	peak
4500.00	40.83	V	4.45	45.28	74.00	28.72	peak
5150.00	41.28	V	6.04	47.32	74.00	26.68	peak
10380.00	41.24	V	7.32	48.56	68.20	19.64	peak
11AC40 TX CH46							
10460.00	39.99	H	7.55	47.54	68.20	20.66	peak
10460.00	40.87	V	7.55	48.42	68.20	19.78	peak
11AC40 TX CH151							
5650.00	43.03	H	6.22	49.25	68.20	18.95	peak
5700.00	47.44	H	6.50	53.94	105.20	51.26	peak
5720.00	56.89	H	6.32	63.21	110.80	47.59	peak
5725.00	59.88	H	6.28	66.16	122.20	56.04	peak
11510.00	39.45	H	8.26	47.71	74.00	26.29	peak
5650.00	43.97	V	6.22	50.19	68.20	18.01	peak
5700.00	48.73	V	6.50	55.23	105.20	49.97	peak
5720.00	58.27	V	6.32	64.59	110.80	46.21	peak
5725.00	61.16	V	6.28	67.44	122.20	54.76	peak
11510.00	39.15	V	8.26	47.41	74.00	26.59	peak
11AC40 TX CH159							
5850.00	49.58	H	7.29	56.87	122.20	65.33	peak
5855.00	46.42	H	7.22	53.64	110.80	57.16	peak
5875.00	43.92	H	6.96	50.88	105.20	54.32	peak
5925.00	42.13	H	6.96	49.09	68.20	19.11	peak
11590.00	38.73	H	8.04	46.77	74.00	27.23	peak
5850.00	50.56	V	7.29	57.85	122.20	64.35	peak
5855.00	47.39	V	7.22	54.61	110.80	56.19	peak

5875.00	44.28	V	6.96	51.24	105.20	53.96	peak
5925.00	43.20	V	6.96	50.16	68.20	18.04	peak
11590.00	39.49	V	8.04	47.53	74.00	26.47	peak
11AC80 TX CH42							
4500.00	39.69	H	4.45	44.14	74.00	29.86	peak
5150.00	39.63	H	6.04	45.67	74.00	28.33	peak
10420.00	40.36	H	7.45	47.81	68.20	20.39	peak
4500.00	39.98	H	4.45	44.43	74.00	29.57	peak
5150.00	40.31	H	6.04	46.35	74.00	27.65	peak
10420.00	40.93	V	7.45	48.38	68.20	19.82	peak
11AC80 TX CH155							
5650.00	43.85	H	5.72	49.57	68.20	18.63	peak
5700.00	49.07	H	6.00	55.07	105.20	50.13	peak
5720.00	60.14	H	5.82	65.96	110.80	44.84	peak
5725.00	58.06	H	5.78	63.84	122.20	58.36	peak
5850.00	53.99	H	6.79	60.78	122.20	61.42	peak
5855.00	51.24	H	6.72	57.96	110.80	52.84	peak
5875.00	46.37	H	6.46	52.83	105.20	52.37	peak
5925.00	43.79	H	6.46	50.25	68.20	17.95	peak
11510.00	39.57	H	7.66	47.23	74.00	26.77	peak
5650.00	44.90	V	5.72	50.62	68.20	17.58	peak
5700.00	52.88	V	6.00	58.88	105.20	46.32	peak
5720.00	61.83	V	5.82	67.65	110.80	43.15	peak
5725.00	59.63	V	5.78	65.41	122.20	56.79	peak
5850.00	54.60	V	6.79	61.39	122.20	60.81	peak
5855.00	50.81	V	6.72	57.53	110.80	53.27	peak
5875.00	77.58	V	6.46	84.04	105.20	21.16	peak
5925.00	43.90	V	6.46	50.36	68.20	17.84	peak
11510.00	40.49	V	7.66	48.15	74.00	25.85	peak
11AX20 TX CH36							
4500.00	40.91	H	4.45	45.36	74.00	28.64	peak
5150.00	40.93	H	6.04	46.97	74.00	27.03	peak
10360.00	39.89	H	7.25	47.14	68.20	21.06	peak
4500.00	41.29	V	4.45	45.74	74.00	28.26	peak
5150.00	41.56	V	6.04	47.60	74.00	26.40	peak
10360.00	41.03	V	7.25	48.28	68.20	19.92	peak
11AX20 TX CH40							
10400.00	39.96	H	7.39	47.35	68.20	20.85	peak
10400.00	40.83	V	7.39	48.22	68.20	19.98	peak
11AX20 TX CH48							
10480.00	39.71	H	7.60	47.31	68.20	20.89	peak
10480.00	40.57	V	7.60	48.17	68.20	20.03	peak
11AX20 TX CH149							
5650.00	42.86	H	5.72	48.58	68.20	19.62	peak
5700.00	43.62	H	6.00	49.62	105.20	55.58	peak

5720.00	52.59	H	5.82	58.41	110.80	52.39	peak
5725.00	59.68	H	5.78	65.46	122.20	56.74	peak
11490.00	39.16	H	7.76	46.92	74.00	27.08	peak
5650.00	43.57	V	5.72	49.29	68.20	18.91	peak
5700.00	45.03	V	6.00	51.03	105.20	54.17	peak
5720.00	53.44	V	5.82	59.26	110.80	51.54	peak
5725.00	60.08	V	5.78	65.86	122.20	56.34	peak
11490.00	39.88	V	7.76	47.64	74.00	26.36	peak
11AX20 TX CH157							
11570.00	39.40	H	7.60	47.00	74.00	27.00	peak
11570.00	40.46	V	7.60	48.06	74.00	25.94	peak
11AX20 TX CH165							
5850.00	54.19	H	6.79	60.98	122.20	61.22	peak
5855.00	48.35	H	6.72	55.07	110.80	55.73	peak
5875.00	44.12	H	6.46	50.58	105.20	54.62	peak
5925.00	41.82	H	6.46	48.28	68.20	19.92	peak
11650.00	39.29	H	7.45	46.74	74.00	27.26	peak
5850.00	55.36	V	6.79	62.15	122.20	60.05	peak
5855.00	49.79	V	6.72	56.51	110.80	54.29	peak
5875.00	45.37	V	6.46	51.83	105.20	53.37	peak
5925.00	42.65	V	6.46	49.11	68.20	19.09	peak
11650.00	40.01	V	7.45	47.46	74.00	26.54	peak
11AX40 TX CH38							
4500.00	40.60	H	4.45	45.05	74.00	28.95	peak
5150.00	40.25	H	6.04	46.29	74.00	27.71	peak
10380.00	40.21	H	7.32	47.53	68.20	20.67	peak
4500.00	40.80	V	4.45	45.25	74.00	28.75	peak
5150.00	40.44	V	6.04	46.48	74.00	27.52	peak
10380.00	41.00	V	7.32	48.32	68.20	19.88	peak
11AX40 TX CH46							
10460.00	39.92	H	7.55	47.47	68.20	20.73	peak
10460.00	40.74	V	7.55	48.29	68.20	19.91	peak
11AX40 TX CH151							
5650.00	43.22	H	6.22	49.44	68.20	18.76	peak
5700.00	47.35	H	6.50	53.85	105.20	51.35	peak
5720.00	56.82	H	6.32	63.14	110.80	47.66	peak
5725.00	59.39	H	6.28	65.67	122.20	56.53	peak
11510.00	39.25	H	8.26	47.51	74.00	26.49	peak
5650.00	44.40	V	6.22	50.62	68.20	17.58	peak
5700.00	49.03	V	6.50	55.53	105.20	49.67	peak
5720.00	57.63	V	6.32	63.95	110.80	46.85	peak
5725.00	60.88	V	6.28	67.16	122.20	55.04	peak
11510.00	39.82	V	8.26	48.08	74.00	25.92	peak
11AX40 TX CH159							

5850.00	49.73	H	7.29	57.02	122.20	65.18	peak
5855.00	46.15	H	7.22	53.37	110.80	57.43	peak
5875.00	44.02	H	6.96	50.98	105.20	54.22	peak
5925.00	43.10	H	6.96	50.06	68.20	18.14	peak
11590.00	39.35	H	8.04	47.39	74.00	26.61	peak
5850.00	49.83	V	7.29	57.12	122.20	65.08	peak
5855.00	46.15	V	7.22	53.37	110.80	57.43	peak
5875.00	44.12	V	6.96	51.08	105.20	54.12	peak
5925.00	43.69	V	6.96	50.65	68.20	17.55	peak
11590.00	39.98	V	8.04	48.02	74.00	25.98	peak
11AX80 TX CH42							
4500.00	39.98	H	4.45	44.43	74.00	29.57	peak
5150.00	39.55	H	6.04	45.59	74.00	28.41	peak
10420.00	40.33	H	7.45	47.78	68.20	20.42	peak
5350.00	40.01	H	4.45	44.46	74.00	29.54	peak
5460.00	40.65	H	6.04	46.69	74.00	27.31	peak
10420.00	40.99	V	7.45	48.44	68.20	19.76	peak
11AX80 TX CH155							
5650.00	44.05	H	5.72	49.77	68.20	18.43	peak
5700.00	48.99	H	6.00	54.99	105.20	50.21	peak
5720.00	60.22	H	5.82	66.04	110.80	44.76	peak
5725.00	58.20	H	5.78	63.98	122.20	58.22	peak
5850.00	53.84	H	6.79	60.63	122.20	61.57	peak
5855.00	50.13	H	6.72	56.85	110.80	53.95	peak
5875.00	46.40	H	6.46	52.86	105.20	52.34	peak
5925.00	43.86	H	6.46	50.32	68.20	17.88	peak
11510.00	39.56	H	7.66	47.22	74.00	26.78	peak
5650.00	45.18	V	5.72	50.90	68.20	17.30	peak
5700.00	52.69	V	6.00	58.69	105.20	46.51	peak
5720.00	61.16	V	5.82	66.98	110.80	43.82	peak
5725.00	59.46	V	5.78	65.24	122.20	56.96	peak
5850.00	54.56	V	6.79	61.35	122.20	60.85	peak
5855.00	50.97	V	6.72	57.69	110.80	53.11	peak
5875.00	77.67	V	6.46	84.13	105.20	21.07	peak
5925.00	44.10	V	6.46	50.56	68.20	17.64	peak
11510.00	40.53	V	7.66	48.19	74.00	25.81	peak

Note: 1. The other emission levels were very low against the limit.
2. Measurement = Reading Level+ Correct Factor, Margin = Limit- Measurement

3.3 Spectrum Bandwidth

3.3.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
15.407(e)	26 dB Bandwidth	-	5725-5850
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

3.3.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) the spectrum analyser is set as follow:

For 26 dB Bandwidth

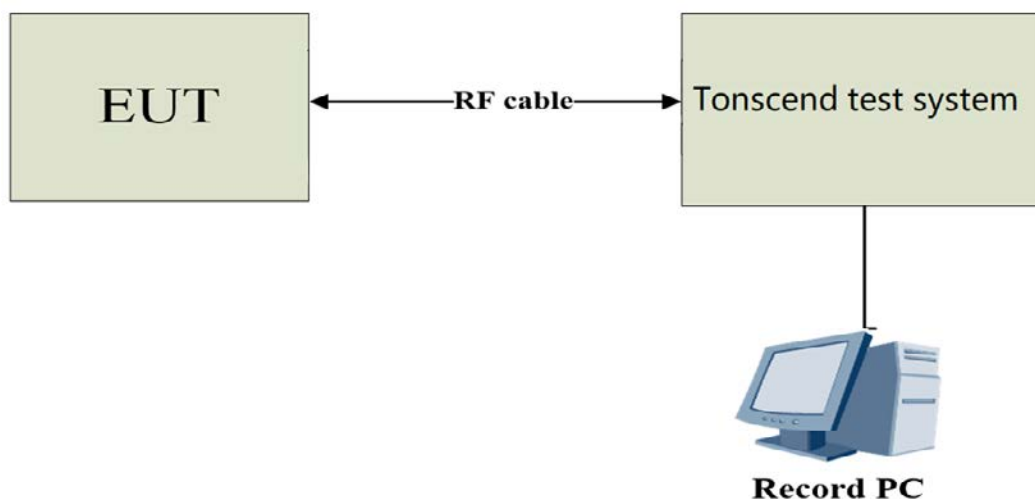
Centre Frequency	The centre frequency of the channel under test
RBW	1% to 5% of the emission bandwidth
VBW	> RBW
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

For 6 dB Bandwidth

Centre Frequency	The centre frequency of the channel under test
RBW	100 kHz
VBW	300 kHz
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

- c) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.
- d) Use the -26/-6dB bandwidth function of the spectrum analyser to measure the -26/-6dB Bandwidth of the EUT. This value shall be recorded.
- e) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.3.3 Test Setup

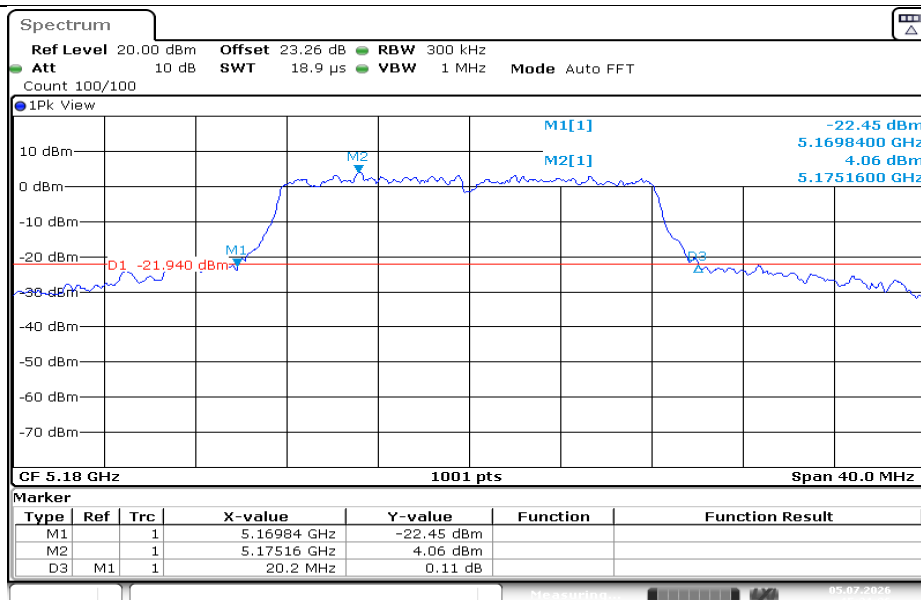


3.3.4 Test Result

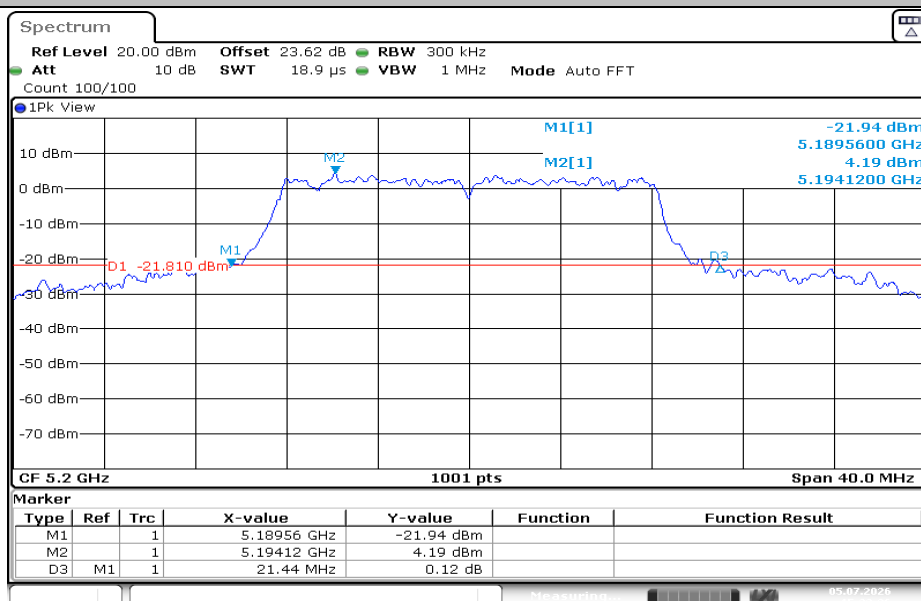
26 dB Bandwidth

Test Mode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.20	5169.84	5190.04	---	---
11A	Ant1	5200	21.44	5189.56	5211.00	---	---
11A	Ant1	5240	27.16	5227.24	5254.40	---	---
11A	Ant1	5745	22.72	5732.32	5755.04	---	---
11A	Ant1	5785	20.12	5774.96	5795.08	---	---
11A	Ant1	5825	19.60	5815.24	5834.84	---	---
11N20SISO	Ant1	5180	21.64	5168.76	5190.40	---	---
11N20SISO	Ant1	5200	24.28	5188.56	5212.84	---	---
11N20SISO	Ant1	5240	24.00	5228.80	5252.80	---	---
11N20SISO	Ant1	5745	23.32	5734.40	5757.72	---	---
11N20SISO	Ant1	5785	20.60	5774.72	5795.32	---	---
11N20SISO	Ant1	5825	20.16	5814.84	5835.00	---	---
11N40SISO	Ant1	5190	40.48	5169.60	5210.08	---	---
11N40SISO	Ant1	5230	40.40	5209.68	5250.08	---	---
11N40SISO	Ant1	5755	40.64	5734.68	5775.32	---	---
11N40SISO	Ant1	5795	39.92	5774.76	5814.68	---	---

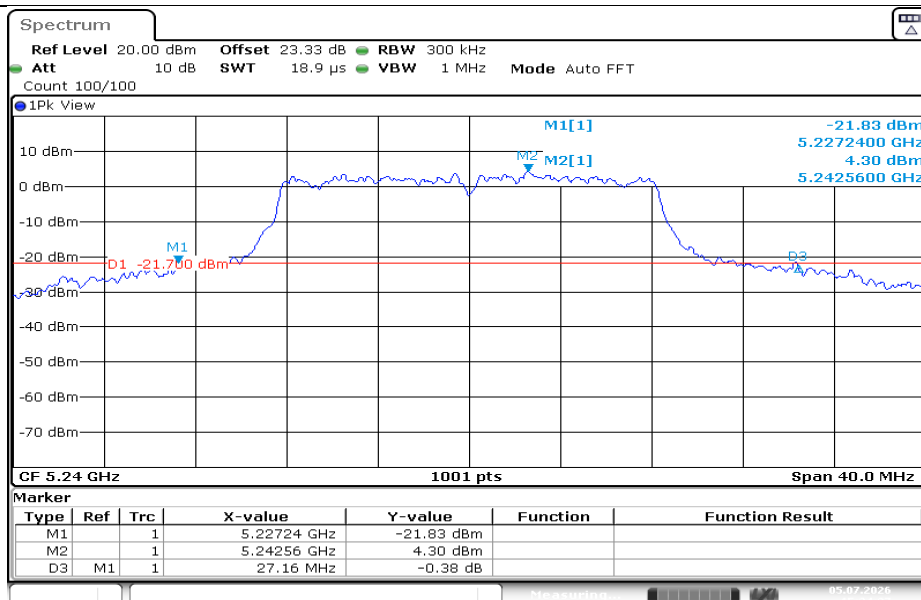
11AC20SISO	Ant1	5180	25.52	5167.64	5193.16	---	---
11AC20SISO	Ant1	5200	24.28	5187.72	5212.00	---	---
11AC20SISO	Ant1	5240	20.24	5229.96	5250.20	---	---
11AC20SISO	Ant1	5745	26.24	5732.32	5758.56	---	---
11AC20SISO	Ant1	5785	24.96	5772.60	5797.56	---	---
11AC20SISO	Ant1	5825	24.88	5812.48	5837.36	---	---
11AC40SISO	Ant1	5190	39.36	5170.40	5209.76	---	---
11AC40SISO	Ant1	5230	40.32	5209.76	5250.08	---	---
11AC40SISO	Ant1	5755	40.24	5735.08	5775.32	---	---
11AC40SISO	Ant1	5795	40.56	5774.60	5815.16	---	---
11AC80SISO	Ant1	5210	79.52	5170.32	5249.84	---	---
11AC80SISO	Ant1	5775	79.52	5735.16	5814.68	---	---
11AX20SISO	Ant1	5180	21.76	5169.00	5190.76	---	---
11AX20SISO	Ant1	5200	23.12	5187.96	5211.08	---	---
11AX20SISO	Ant1	5240	20.00	5230.00	5250.00	---	---
11AX20SISO	Ant1	5745	24.28	5731.52	5755.80	---	---
11AX20SISO	Ant1	5785	22.44	5773.60	5796.04	---	---
11AX20SISO	Ant1	5825	21.52	5814.16	5835.68	---	---
11AX40SISO	Ant1	5190	39.76	5170.08	5209.84	---	---
11AX40SISO	Ant1	5230	39.76	5210.08	5249.84	---	---
11AX40SISO	Ant1	5755	39.68	5735.08	5774.76	---	---
11AX40SISO	Ant1	5795	39.60	5775.16	5814.76	---	---
11AX80SISO	Ant1	5210	80.00	5170.00	5250.00	---	---
11AX80SISO	Ant1	5775	80.16	5735.00	5815.16	---	---



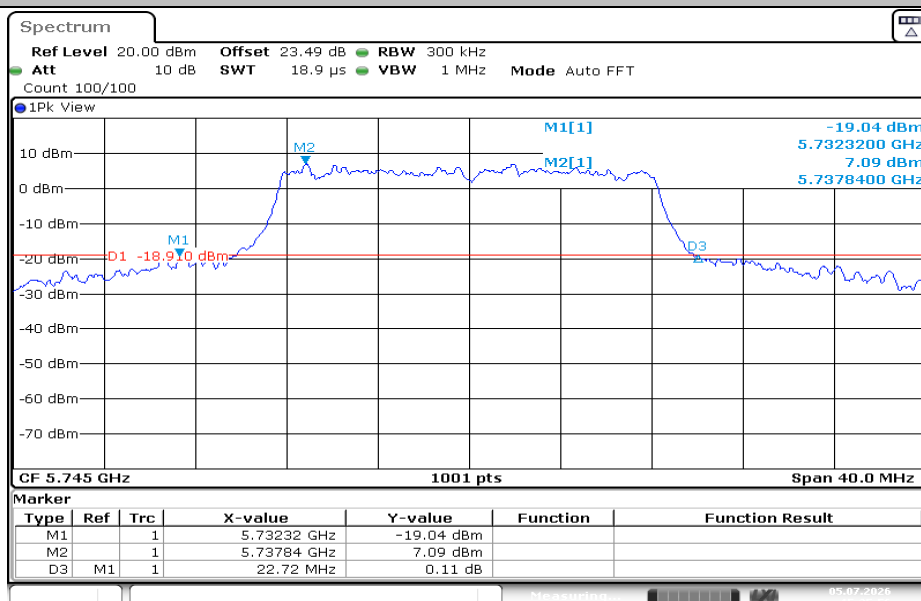
11A-Ant1-5180



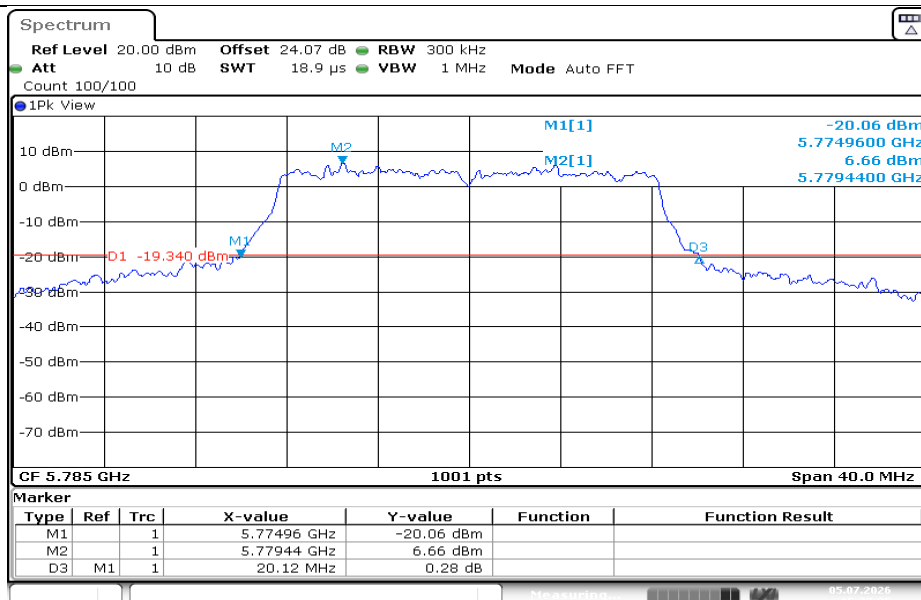
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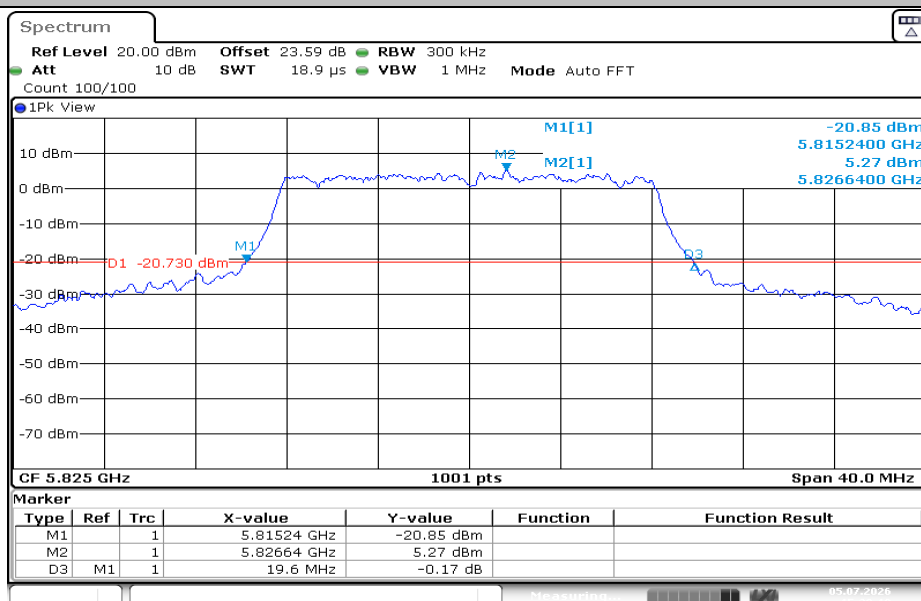
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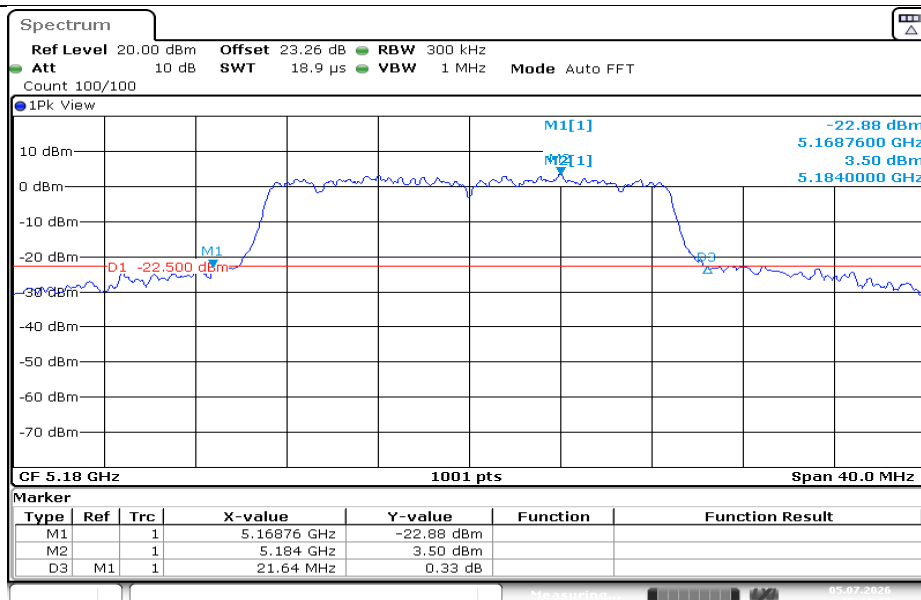
11A-Ant1-5745



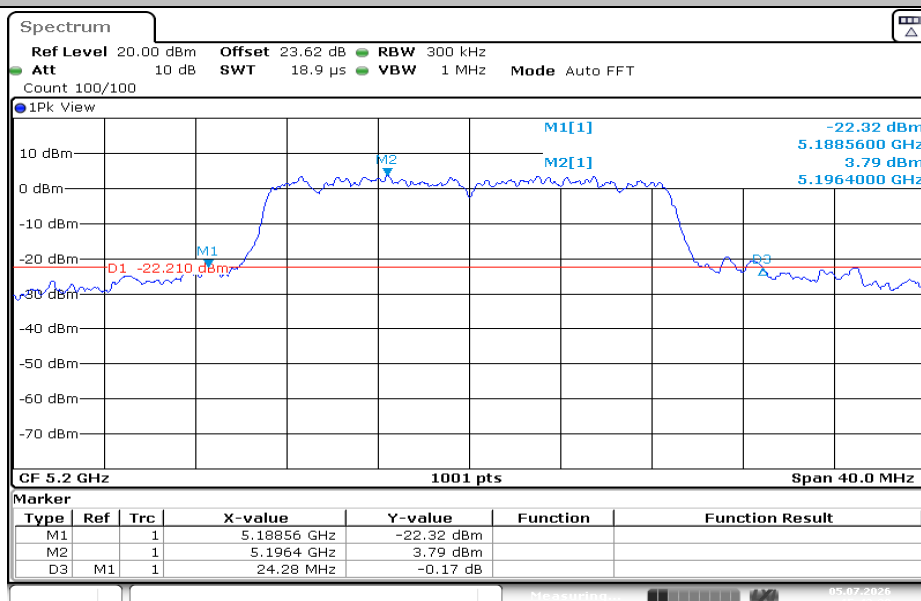
11A-Ant1-5785



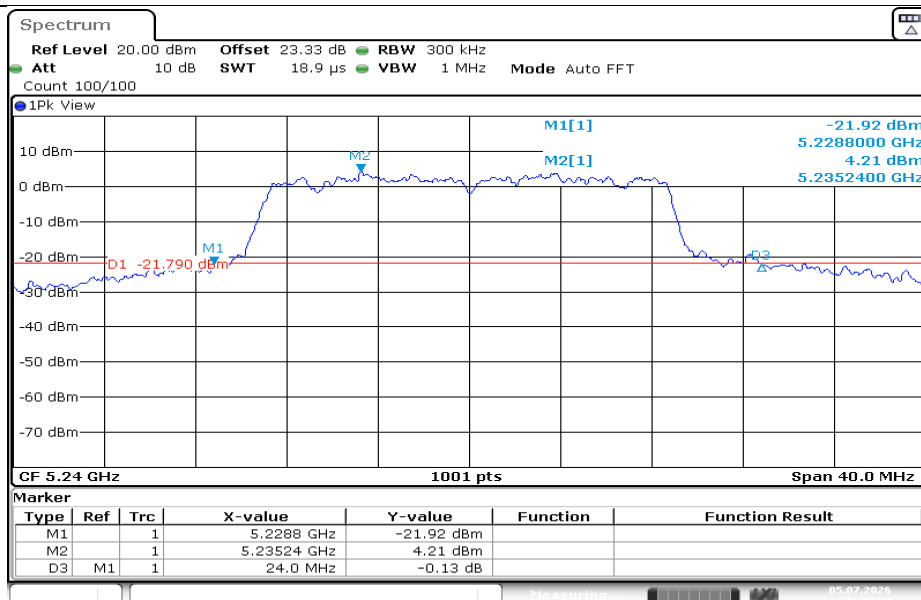
11A-Ant1-5825



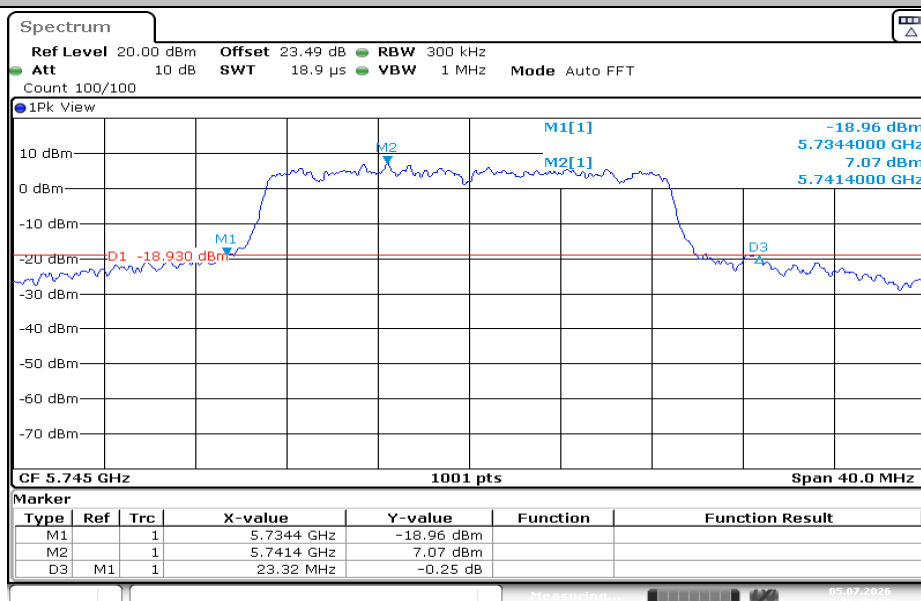
11N20SISO-Ant1-5180



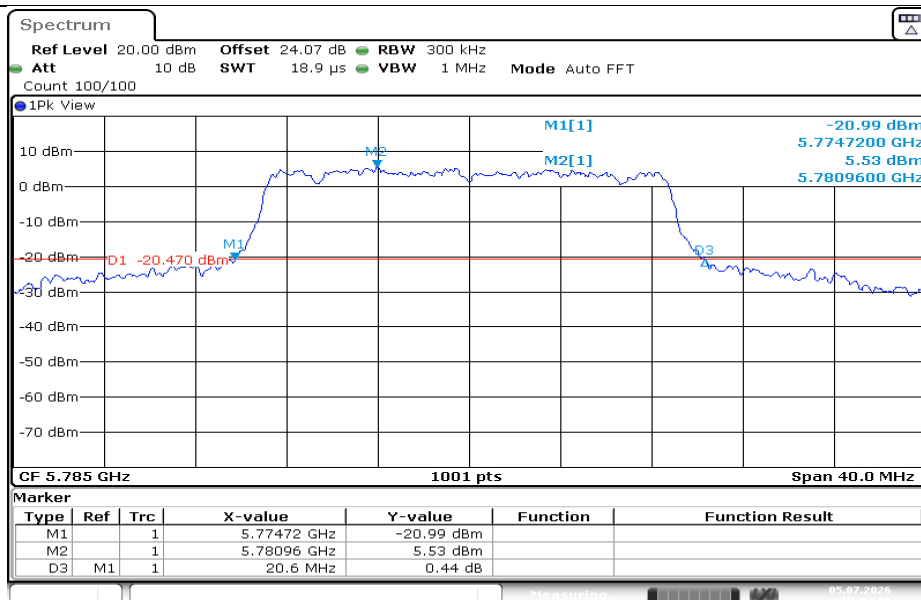
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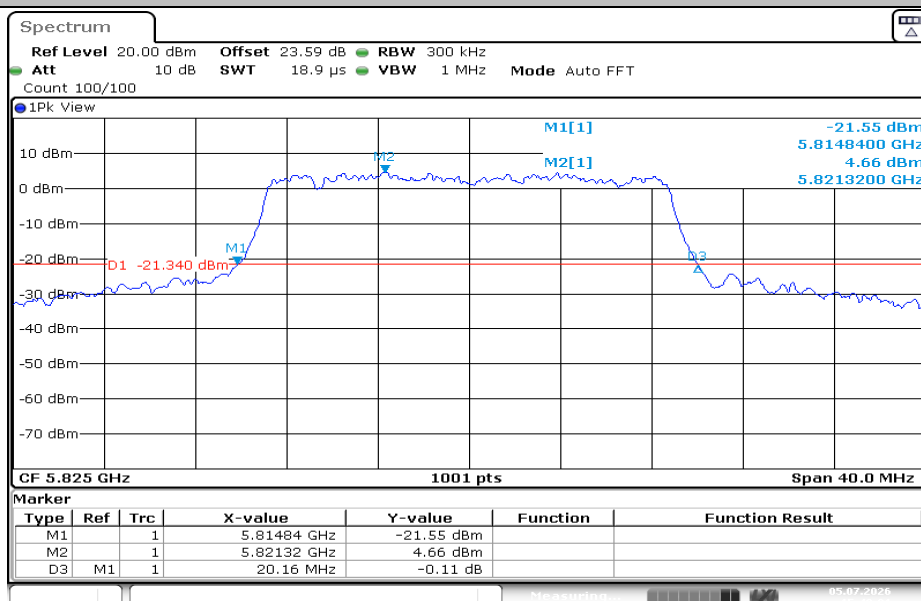
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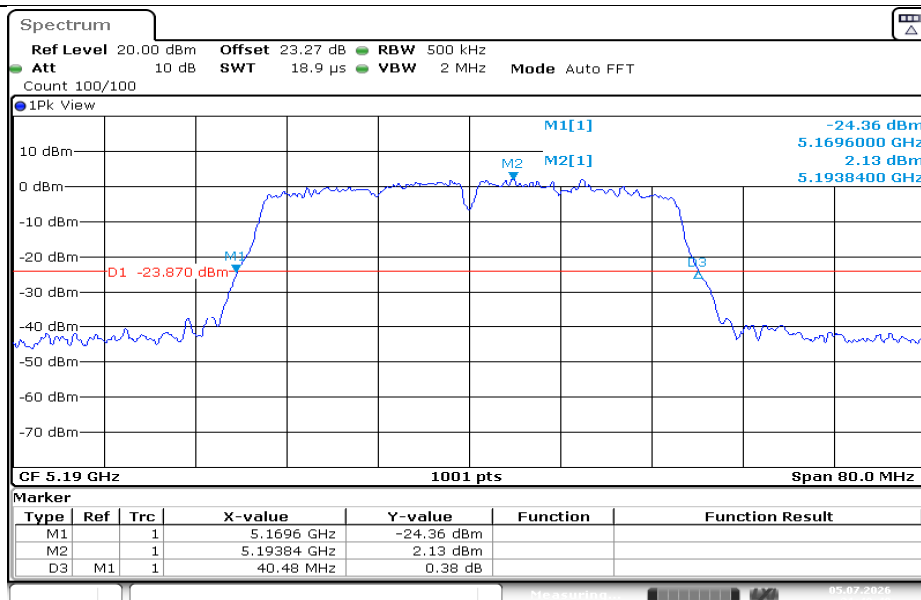
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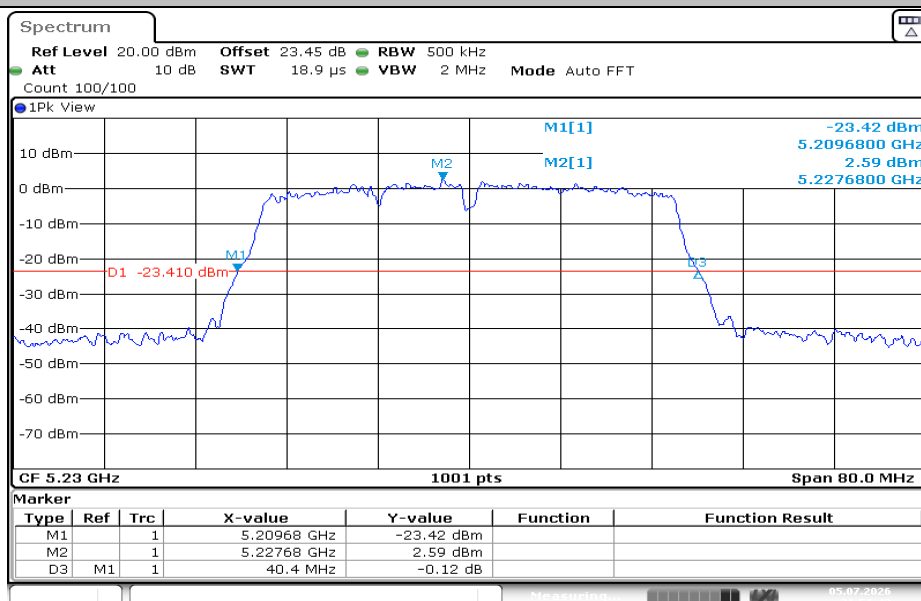
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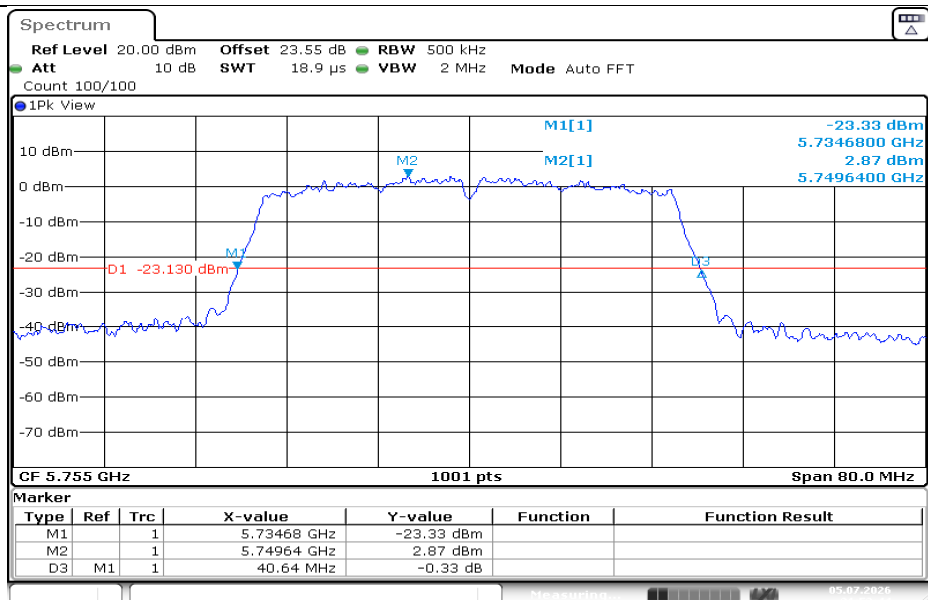
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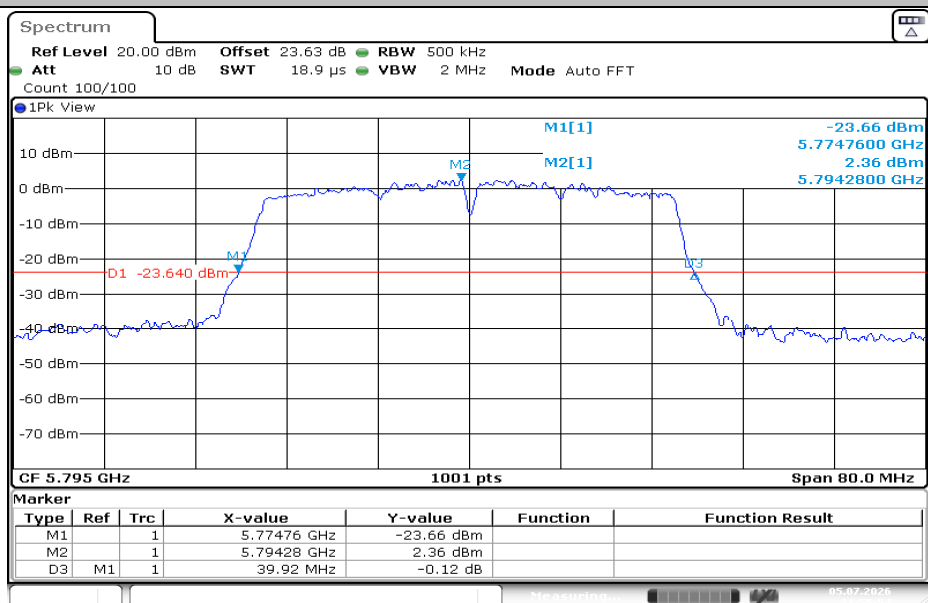
11N40SISO-Ant1-5190



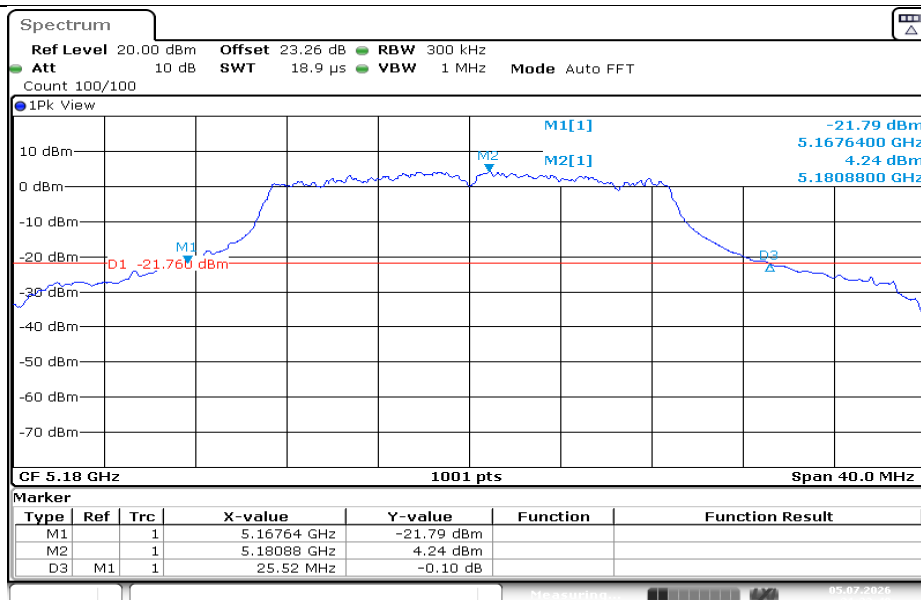
11N40SISO-Ant1-5230



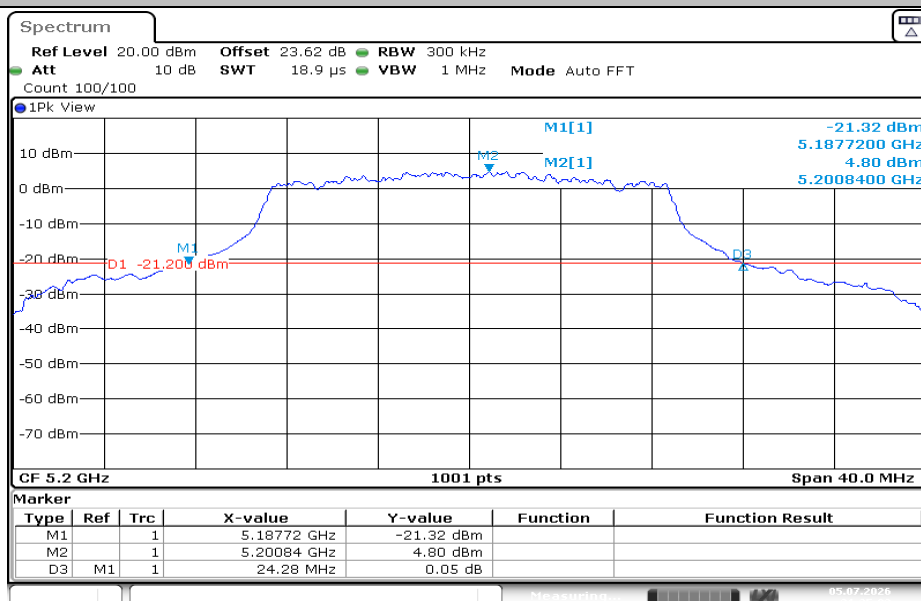
11N40SISO-Ant1-5755



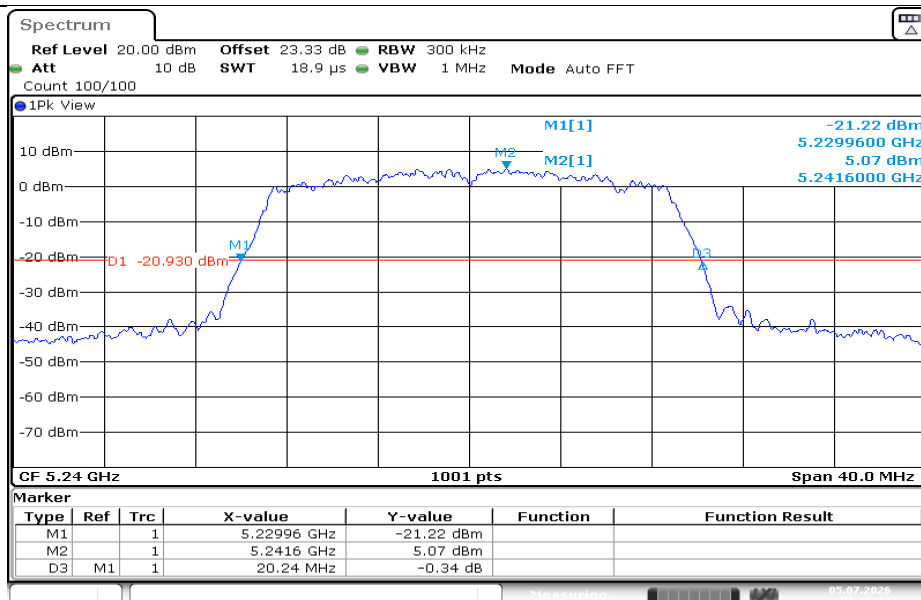
11N40SISO-Ant1-5795



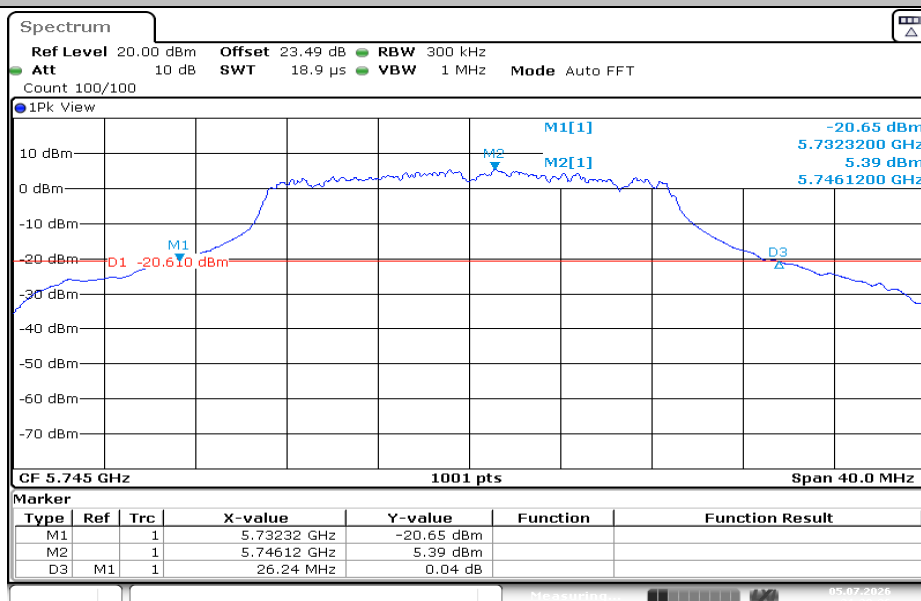
11AC20SISO-Ant1-5180



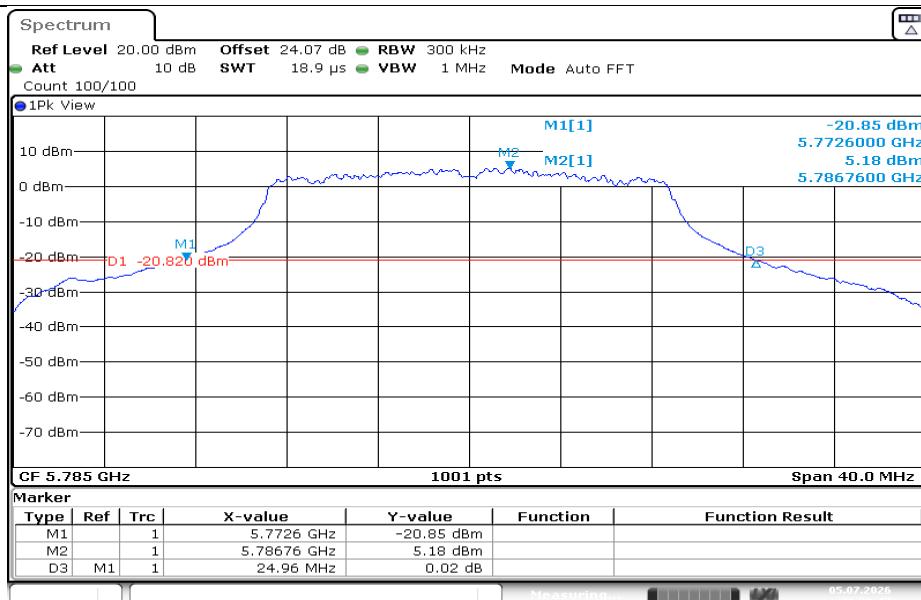
11AC20SISO-Ant1-5200



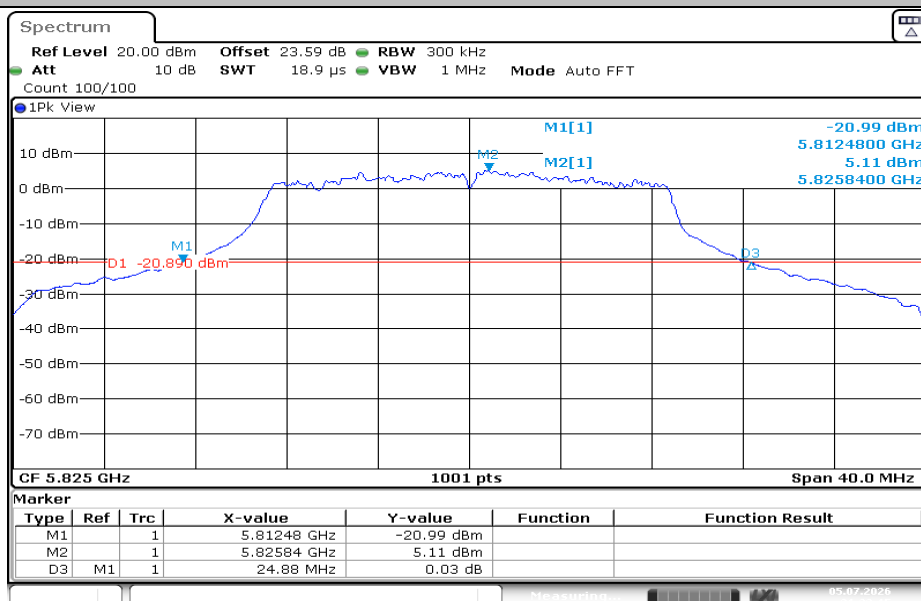
11AC20SISO-Ant1-5240



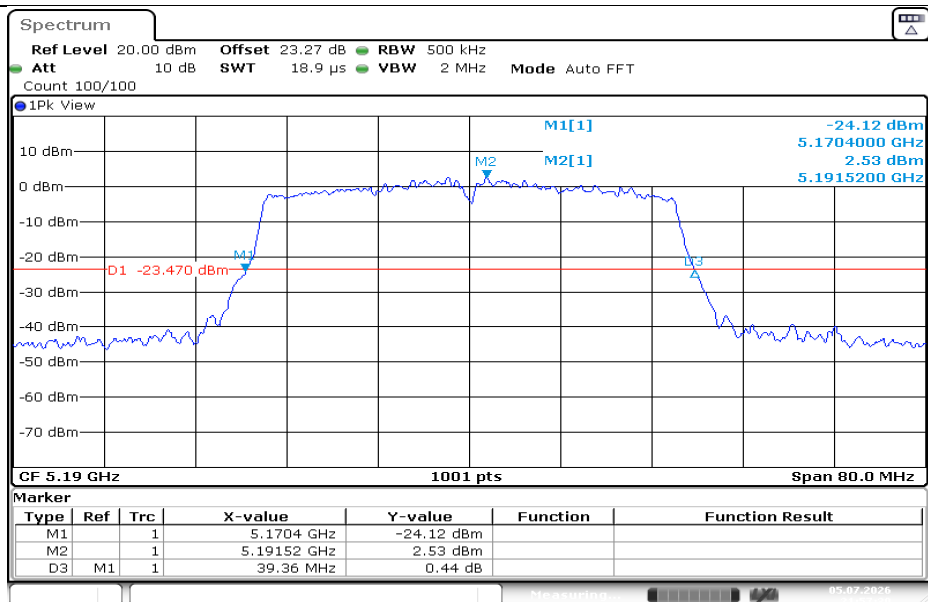
11AC20SISO-Ant1-5745



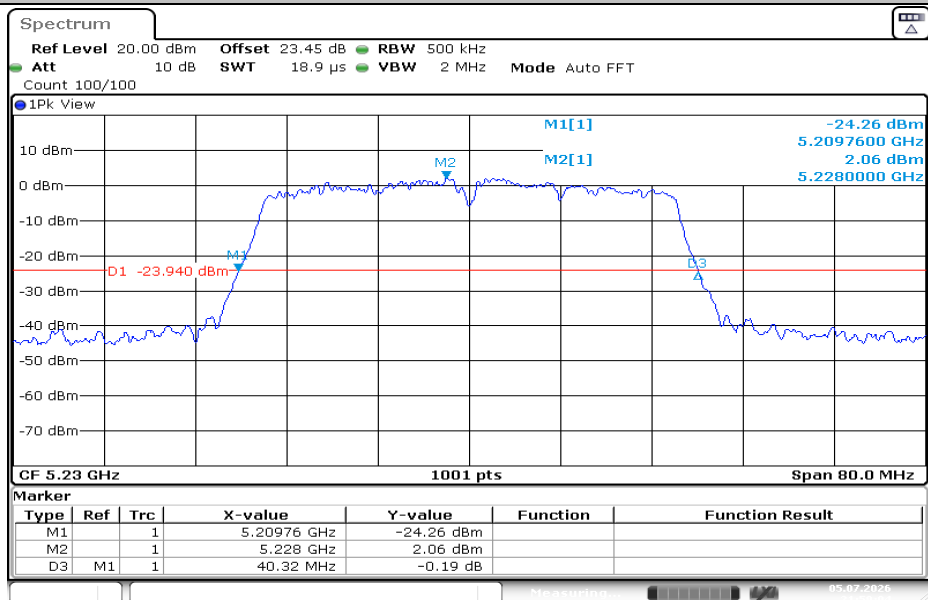
11AC20SISO-Ant1-5785



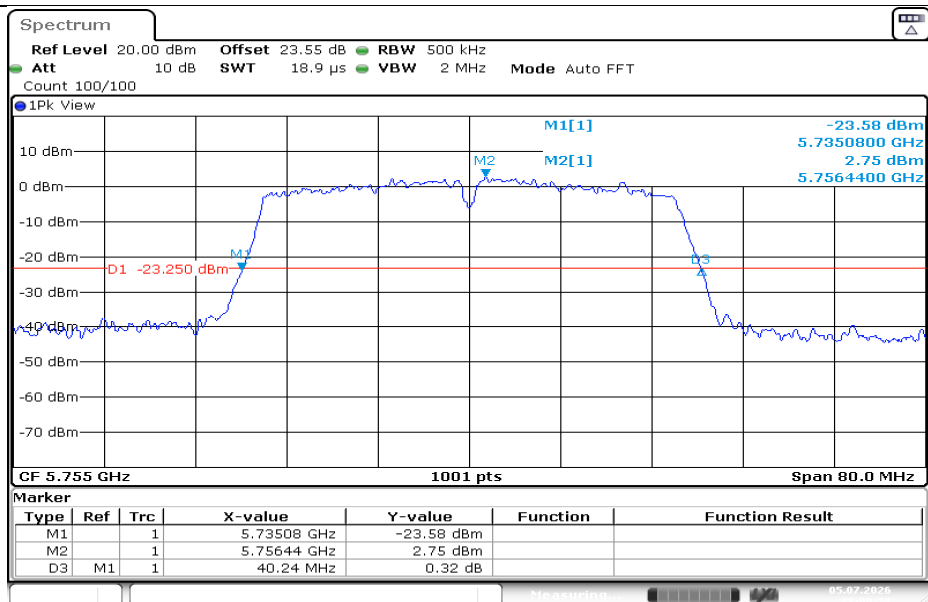
11AC20SISO-Ant1-5825



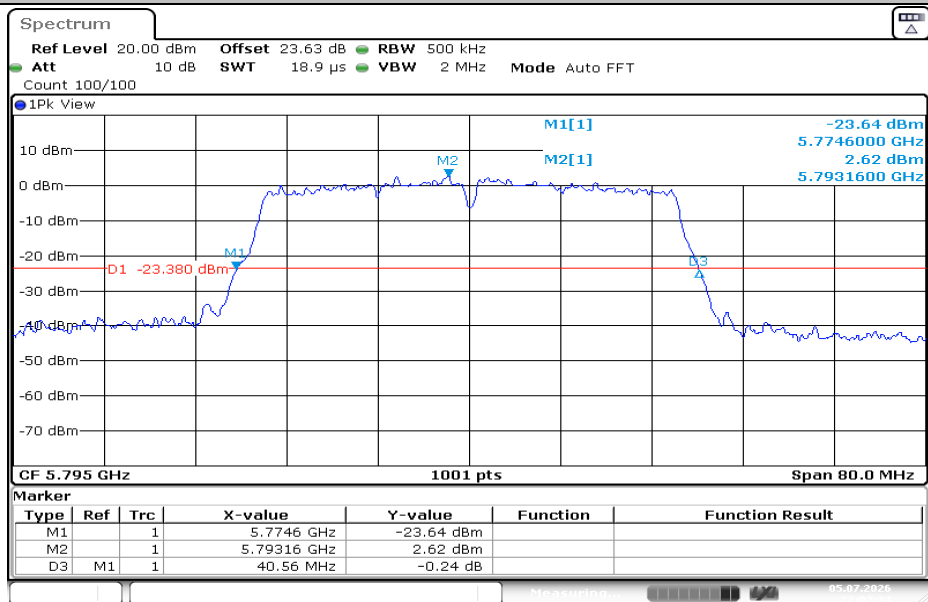
11AC40SISO-Ant1-5190



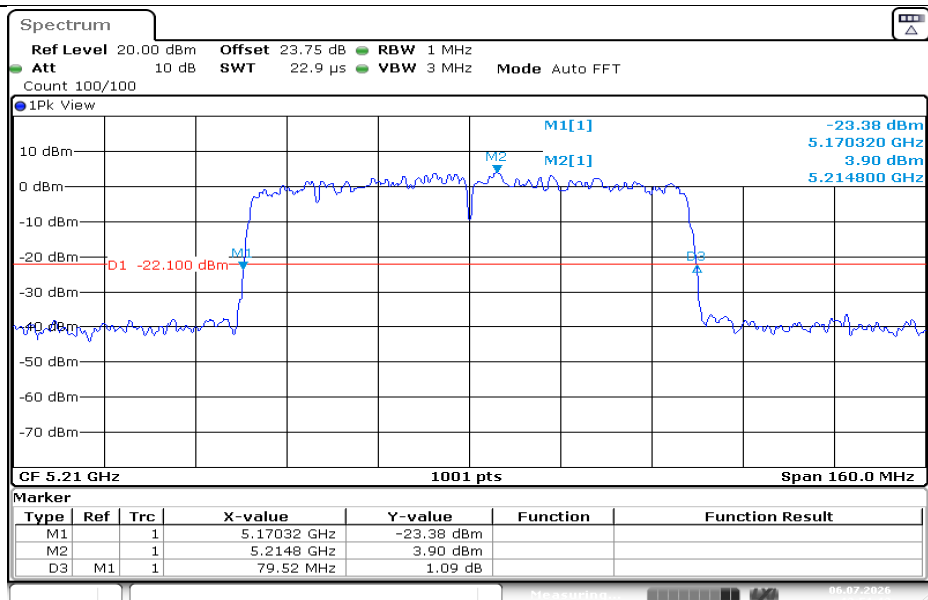
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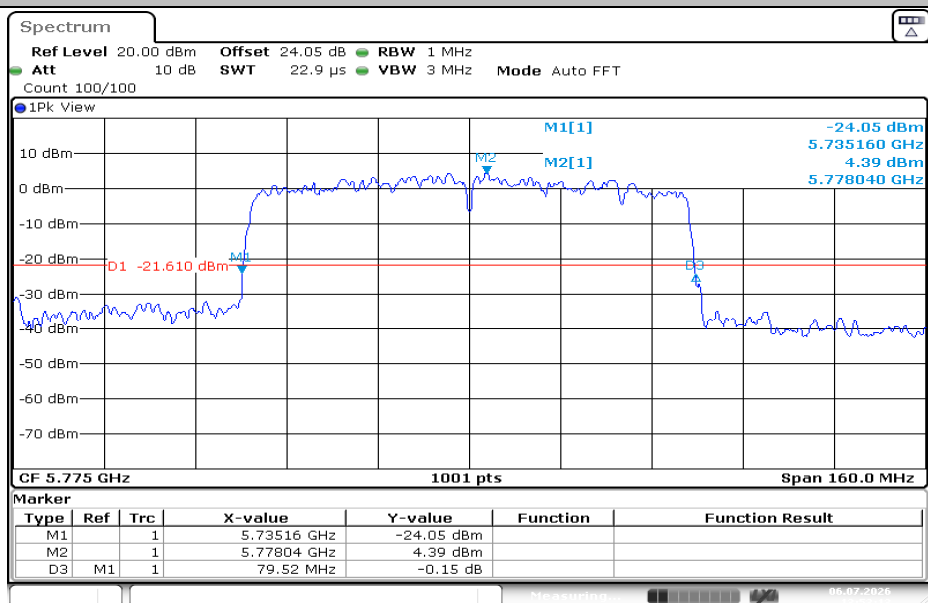
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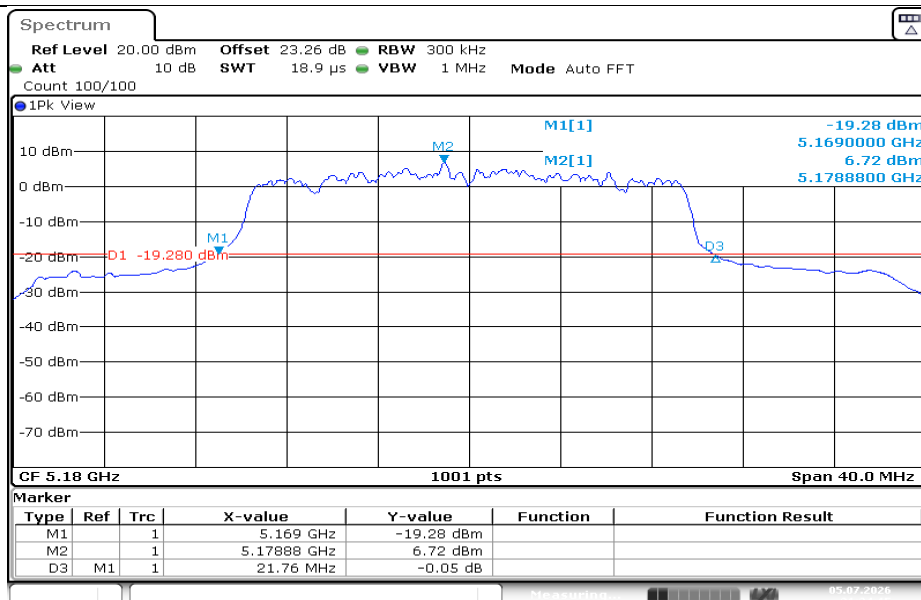
11AC40SISO-Ant1-5795



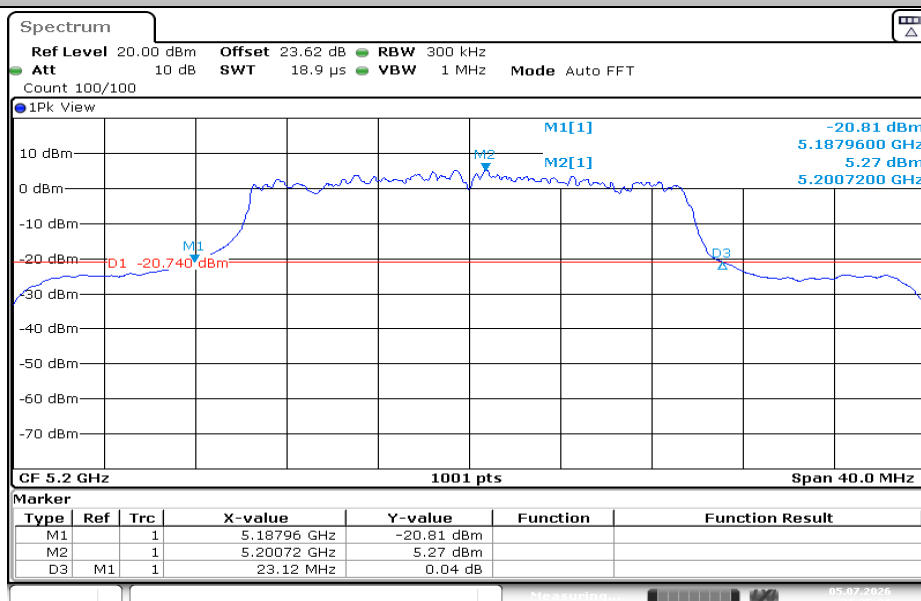
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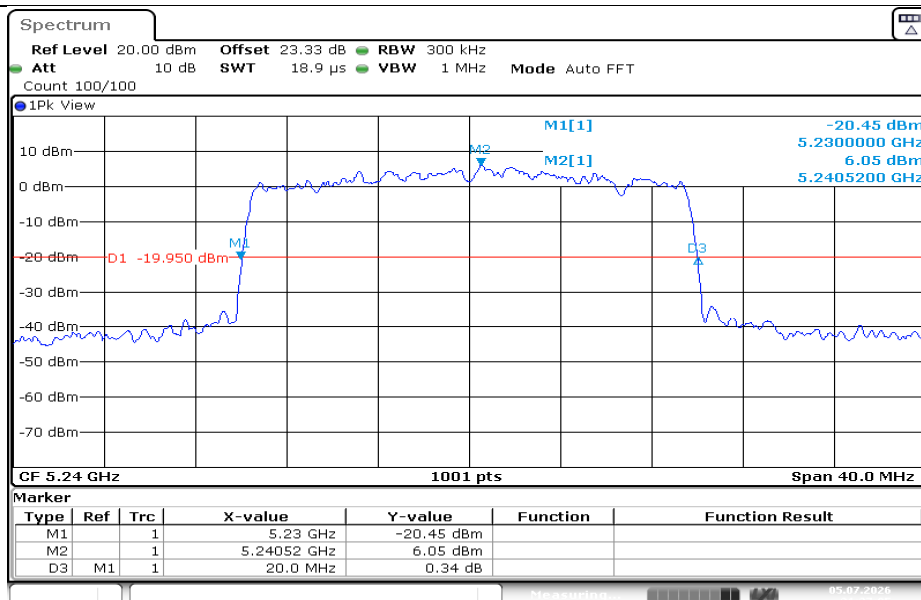
11AC80SISO-Ant1-5775



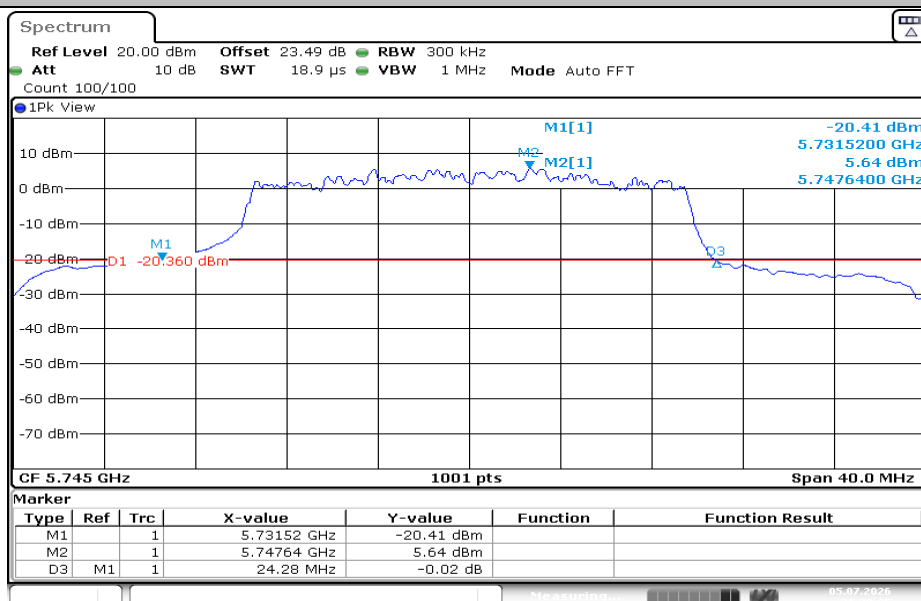
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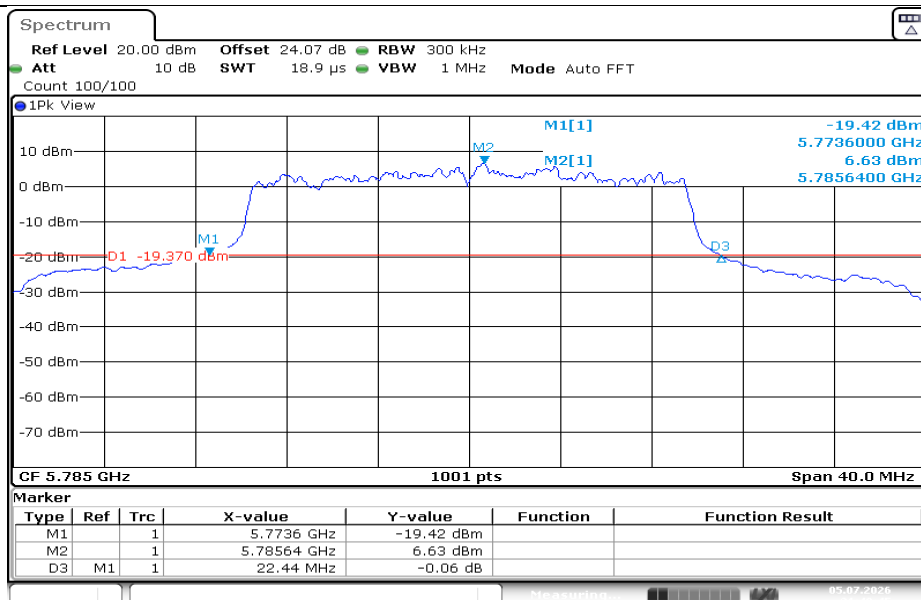
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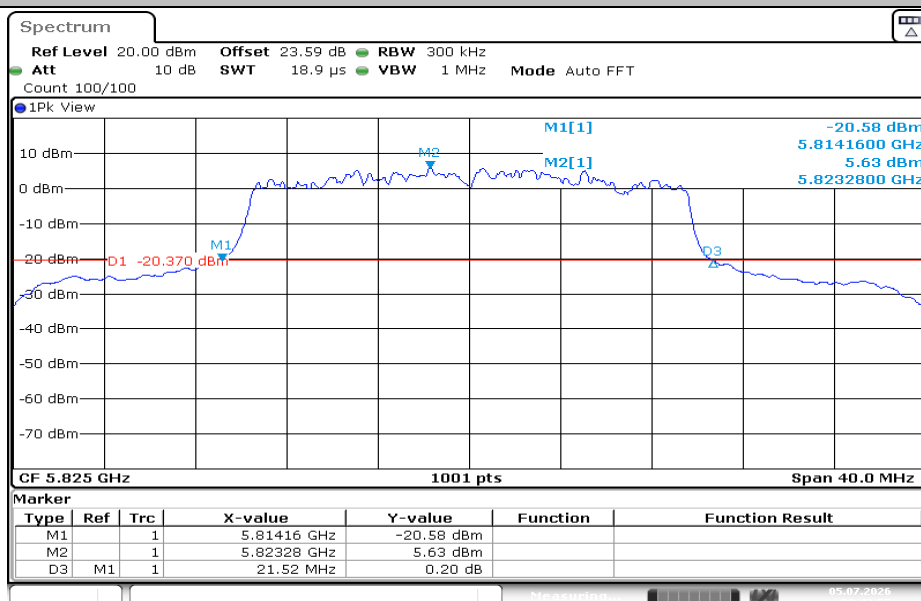
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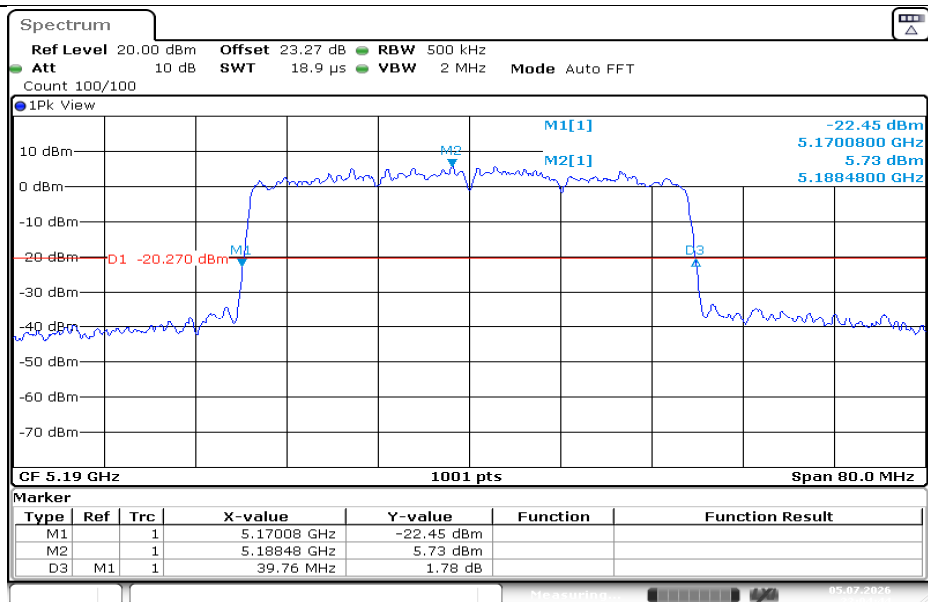
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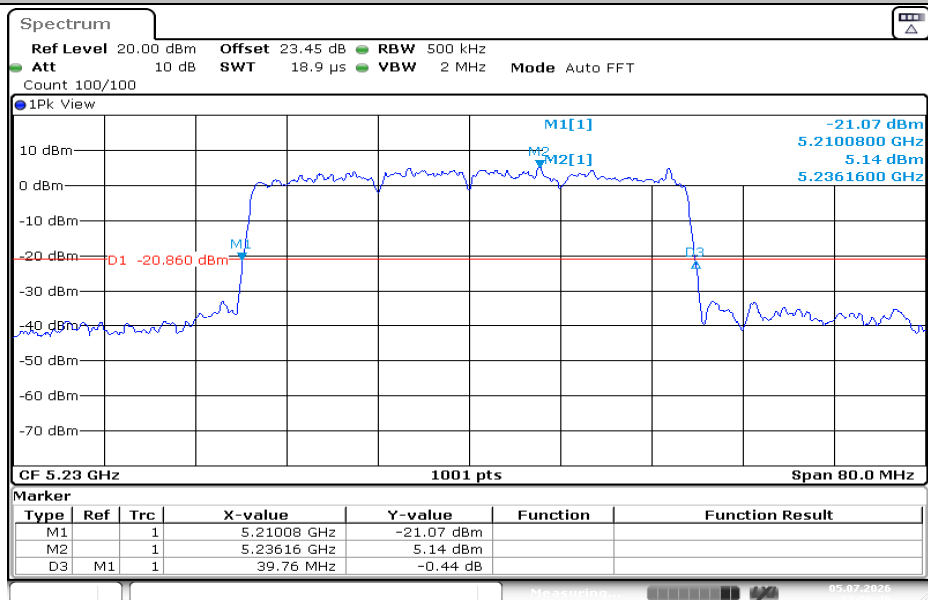
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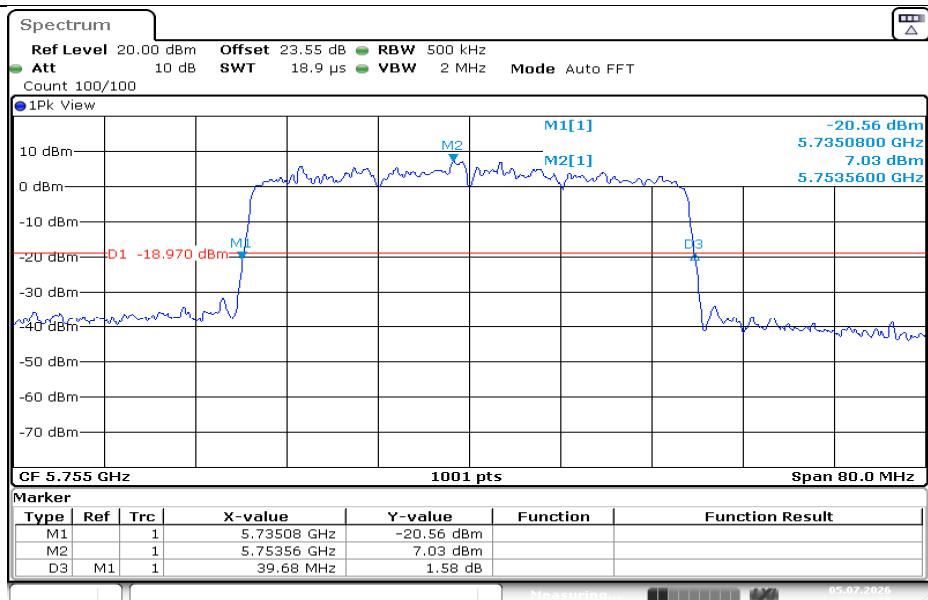
11AX20SISO-Ant1-5825



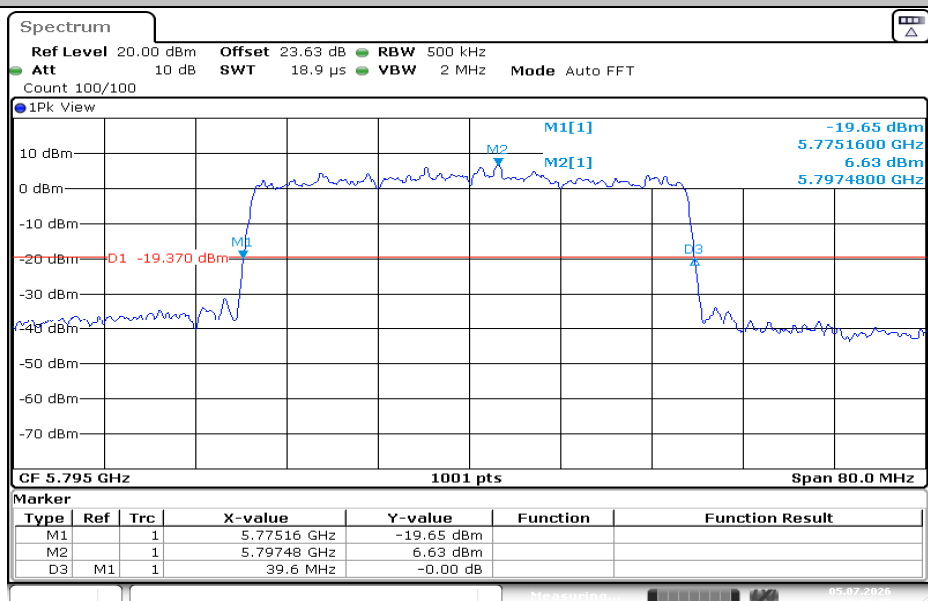
11AX40SISO-Ant1-5190



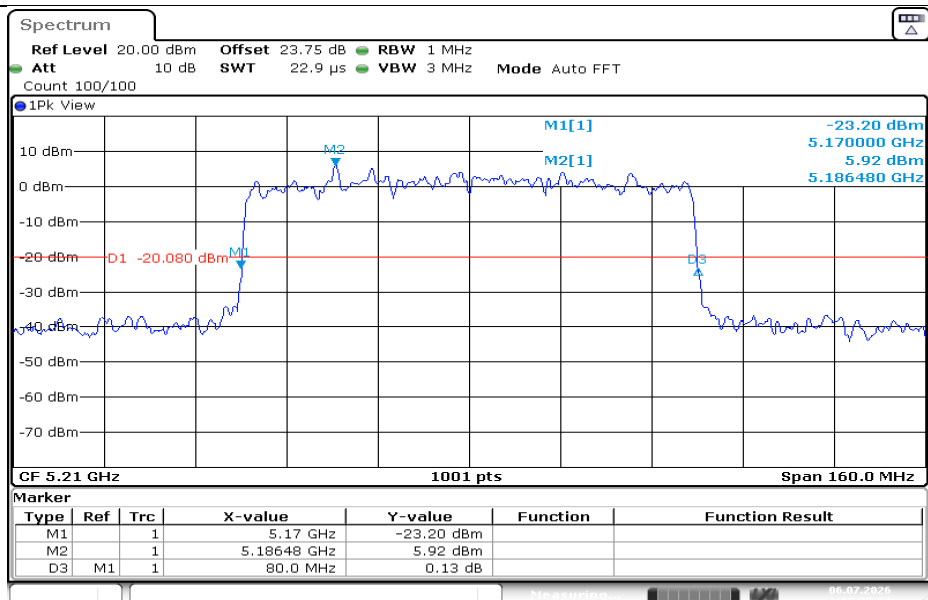
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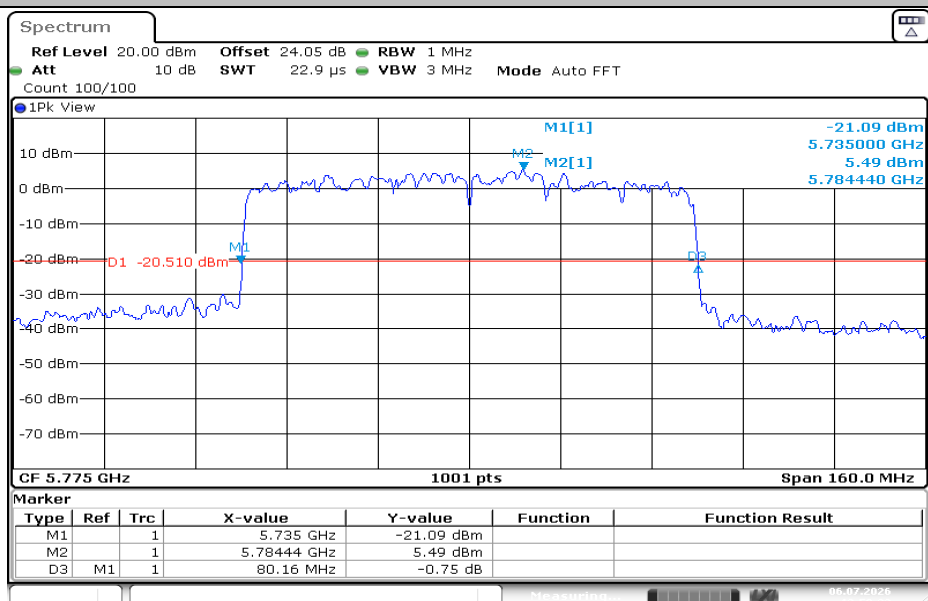
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11AX40SISO-Ant1-5795



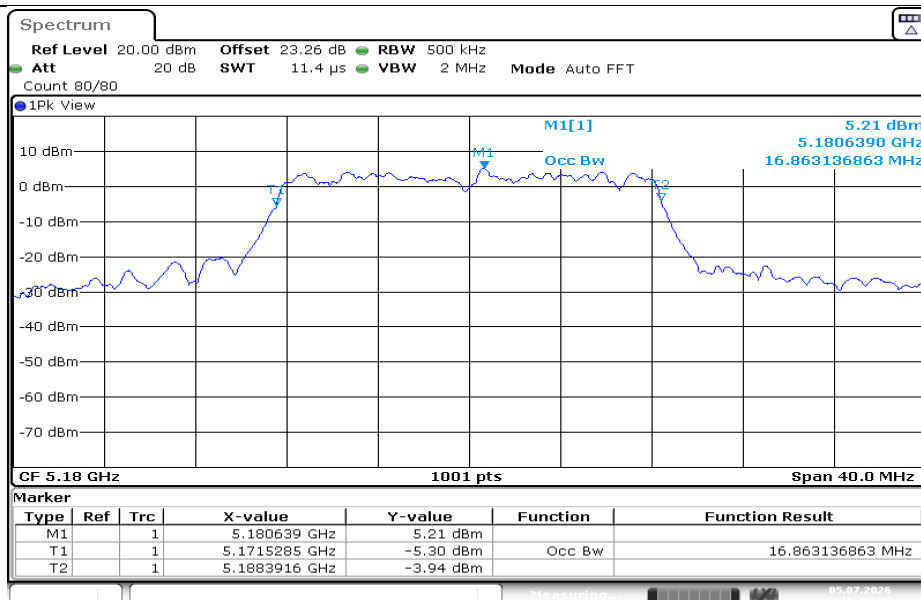
11AX80SISO-Ant1-5210



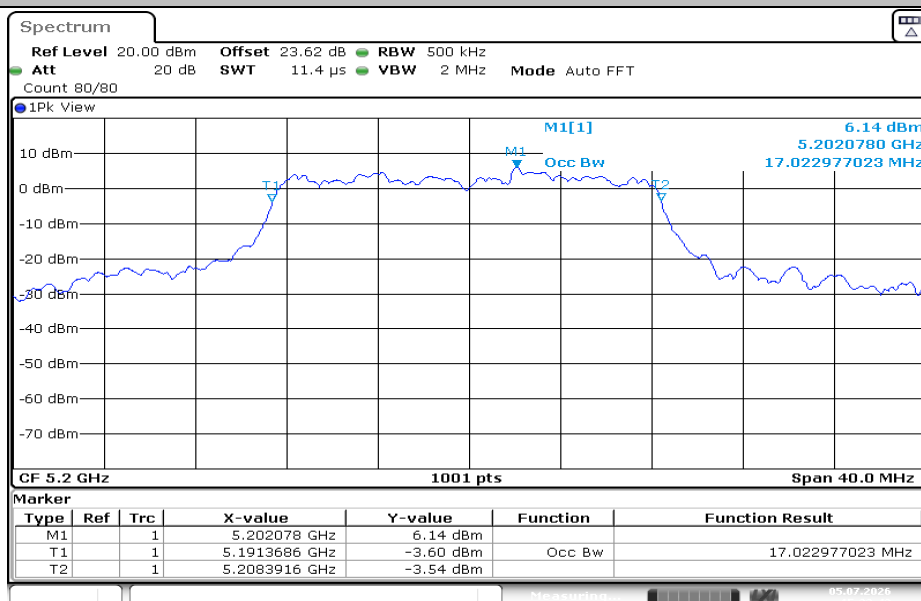
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Occupied channel bandwidth

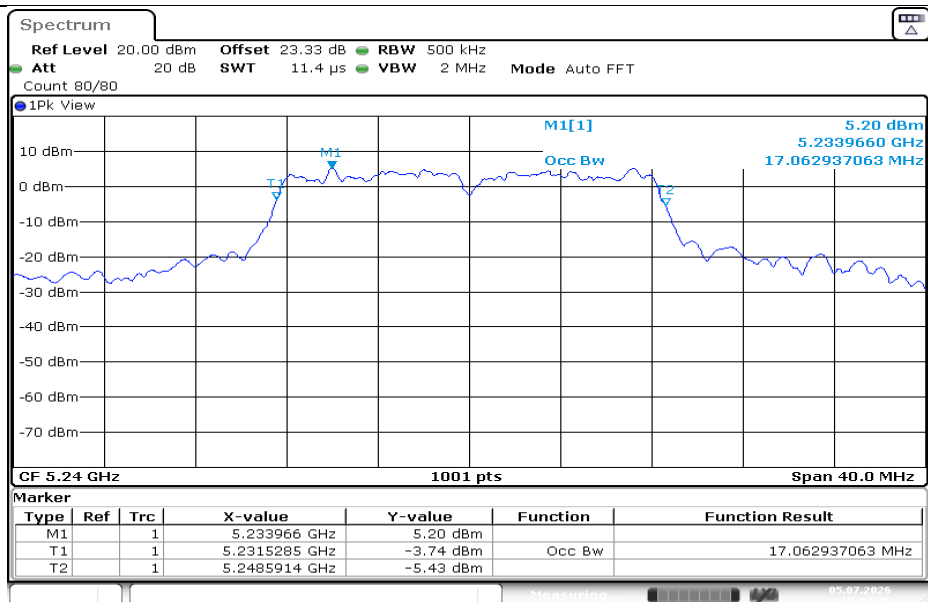
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.863	5171.5285	5188.3916	---	---
11A	Ant1	5200	17.023	5191.3686	5208.3916	---	---
11A	Ant1	5240	17.063	5231.5285	5248.5914	---	---
11A	Ant1	5745	16.863	5736.4885	5753.3516	---	---
11A	Ant1	5785	16.703	5776.6484	5793.3516	---	---
11A	Ant1	5825	16.783	5816.6883	5833.4715	---	---
11N20SISO	Ant1	5180	17.742	5171.0490	5188.7912	---	---
11N20SISO	Ant1	5200	17.782	5191.1289	5208.9111	---	---
11N20SISO	Ant1	5240	17.822	5231.1289	5248.9510	---	---
11N20SISO	Ant1	5745	17.782	5736.0889	5753.8711	---	---
11N20SISO	Ant1	5785	17.742	5776.1289	5793.8711	---	---
11N20SISO	Ant1	5825	17.702	5816.1289	5833.8312	---	---
11N40SISO	Ant1	5190	35.644	5172.1778	5207.8222	---	---
11N40SISO	Ant1	5230	36.284	5211.8581	5248.1419	---	---
11N40SISO	Ant1	5755	35.964	5736.9381	5772.9021	---	---
11N40SISO	Ant1	5795	36.044	5776.7782	5812.8222	---	---
11AC20SISO	Ant1	5180	18.062	5171.0090	5189.0709	---	---
11AC20SISO	Ant1	5200	17.862	5191.0889	5208.9510	---	---
11AC20SISO	Ant1	5240	17.742	5231.0889	5248.8312	---	---
11AC20SISO	Ant1	5745	19.580	5735.2897	5754.8701	---	---
11AC20SISO	Ant1	5785	18.102	5775.9690	5794.0709	---	---
11AC20SISO	Ant1	5825	18.142	5815.8092	5833.9510	---	---
11AC40SISO	Ant1	5190	36.284	5171.8581	5208.1419	---	---
11AC40SISO	Ant1	5230	36.204	5211.9381	5248.1419	---	---
11AC40SISO	Ant1	5755	36.124	5737.0180	5773.1419	---	---
11AC40SISO	Ant1	5795	36.204	5777.0180	5813.2218	---	---
11AC80SISO	Ant1	5210	74.486	5173.2368	5247.7223	---	---
11AC80SISO	Ant1	5775	75.764	5736.9580	5812.7223	---	---
11AX20SISO	Ant1	5180	19.061	5170.5694	5189.6304	---	---
11AX20SISO	Ant1	5200	19.021	5190.4496	5209.4705	---	---
11AX20SISO	Ant1	5240	18.781	5230.6893	5249.4705	---	---
11AX20SISO	Ant1	5745	18.981	5735.4496	5754.4306	---	---
11AX20SISO	Ant1	5785	19.061	5775.4496	5794.5105	---	---
11AX20SISO	Ant1	5825	19.021	5815.4096	5834.4306	---	---
11AX40SISO	Ant1	5190	37.642	5171.2188	5208.8611	---	---
11AX40SISO	Ant1	5230	37.722	5211.2188	5248.9411	---	---
11AX40SISO	Ant1	5755	37.722	5735.9790	5773.7013	---	---
11AX40SISO	Ant1	5795	37.882	5776.0589	5813.9411	---	---
11AX80SISO	Ant1	5210	77.203	5171.3187	5248.5215	---	---
11AX80SISO	Ant1	5775	77.363	5736.3187	5813.6813	---	---



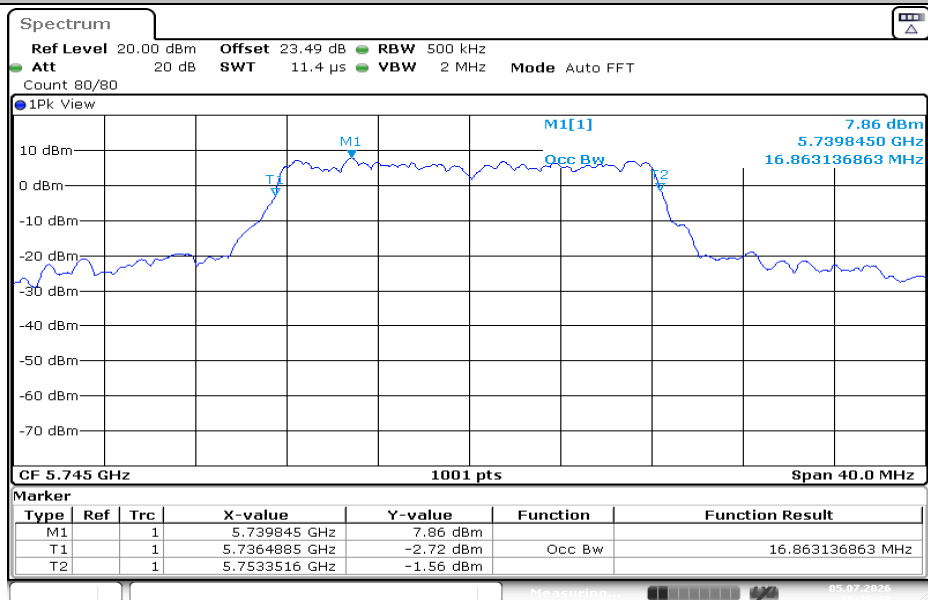
11A-Ant1-5180



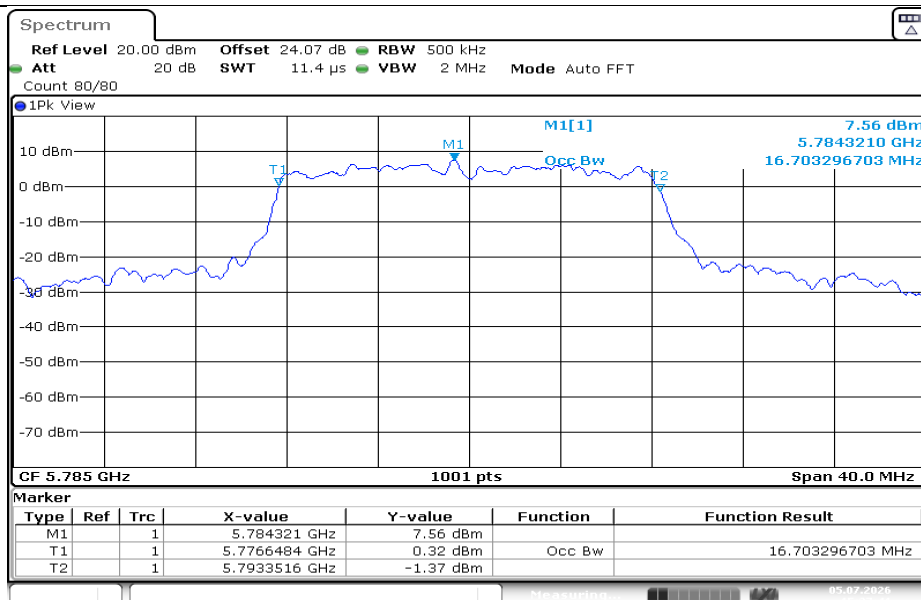
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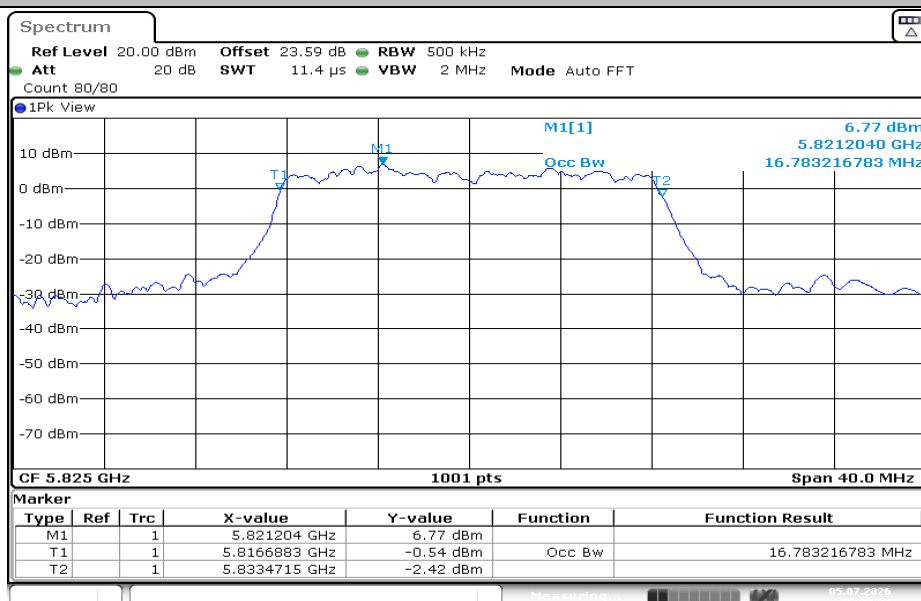
11A-Ant1-5240



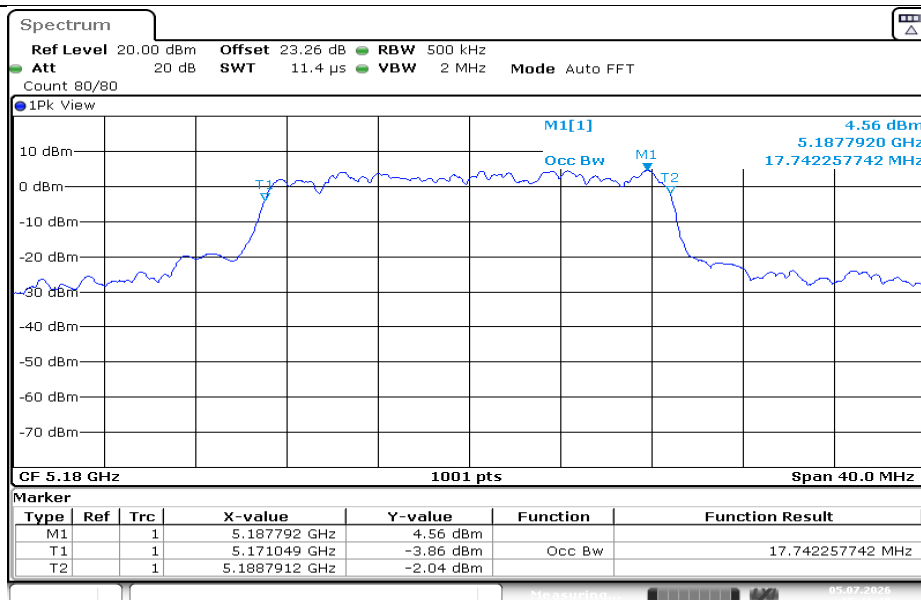
11A-Ant1-5745



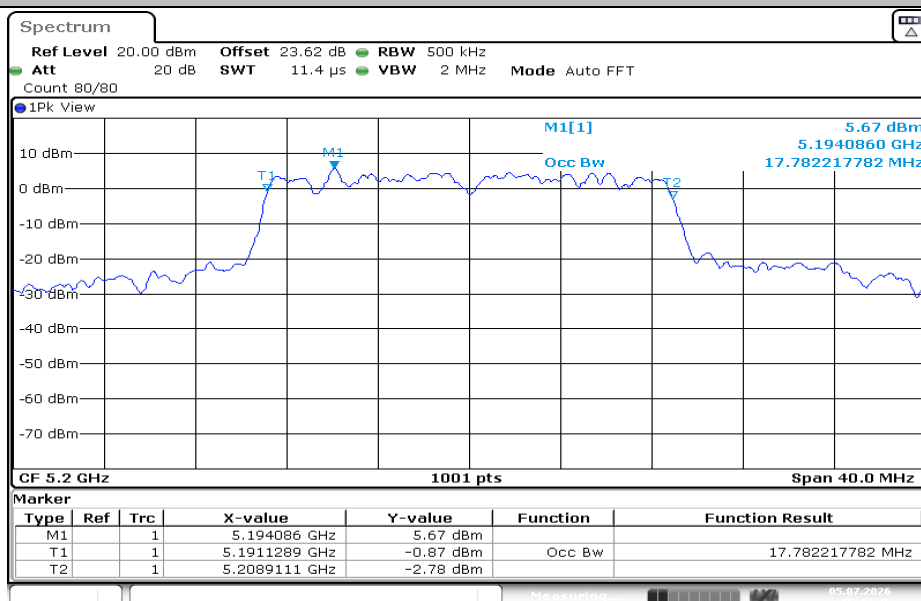
11A-Ant1-5785



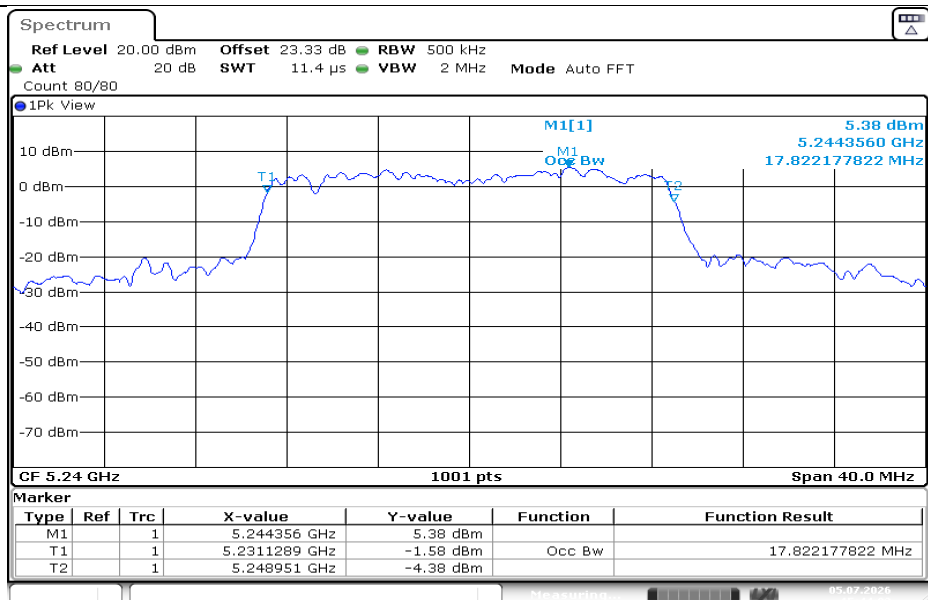
11A-Ant1-5825



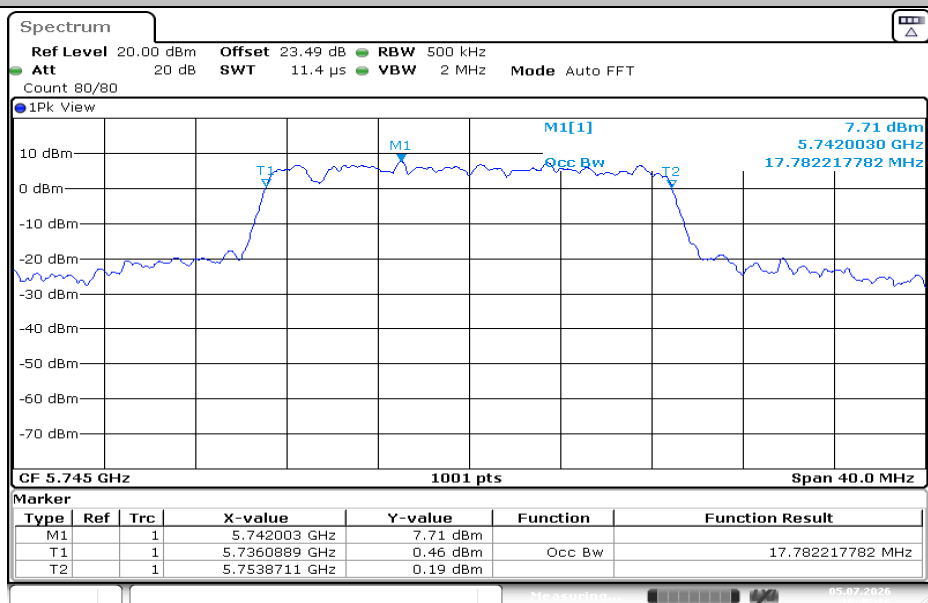
11N20SISO-Ant1-5180



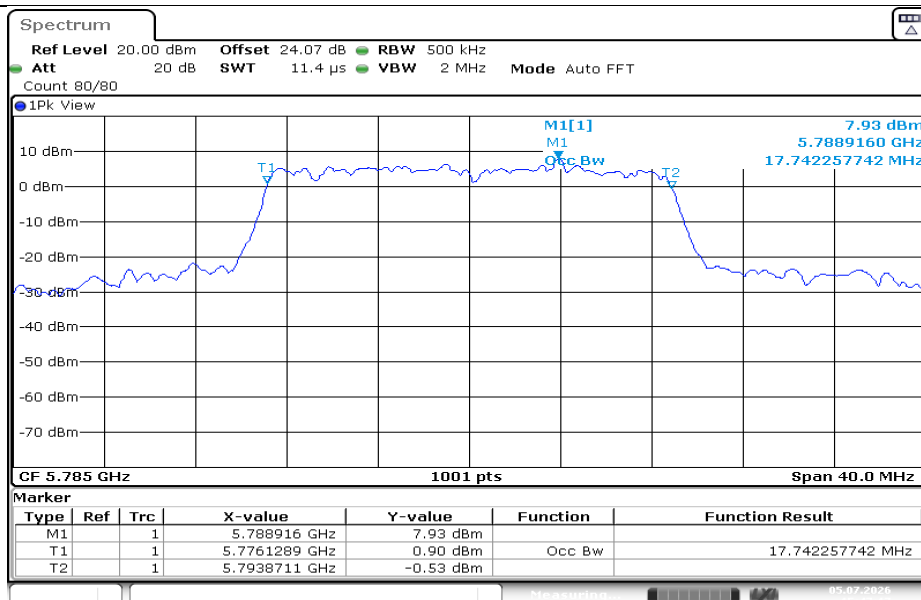
11N20SISO-Ant1-5200



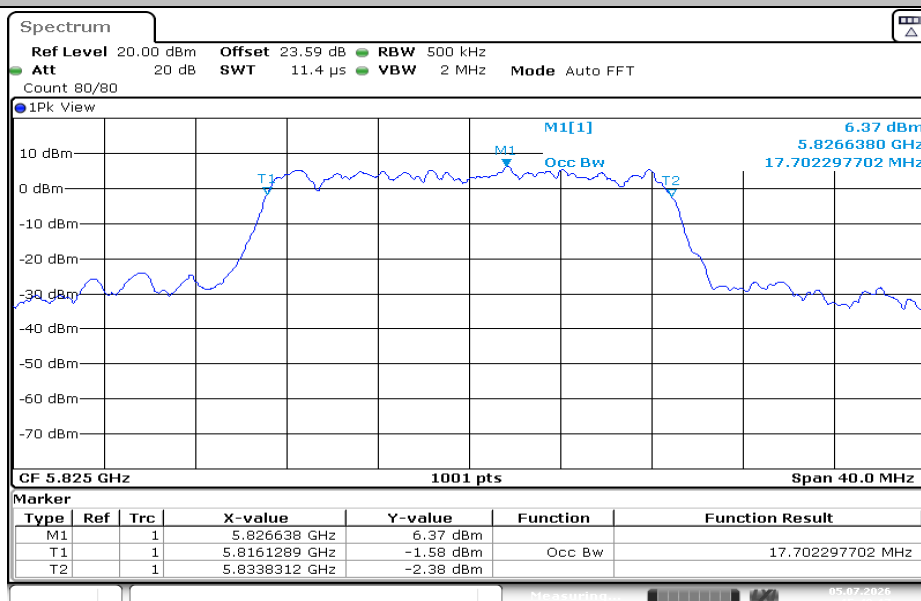
11N20SISO-Ant1-5240



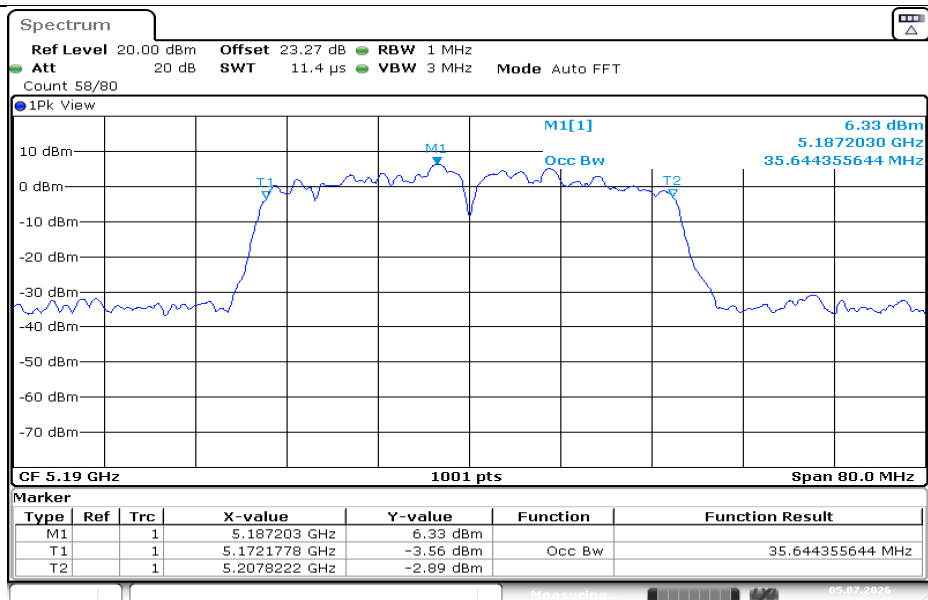
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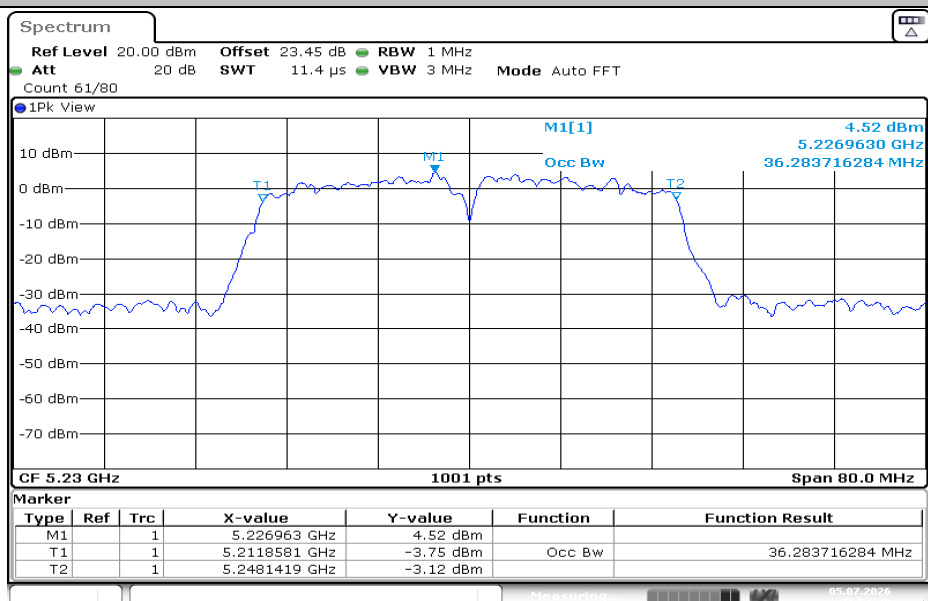
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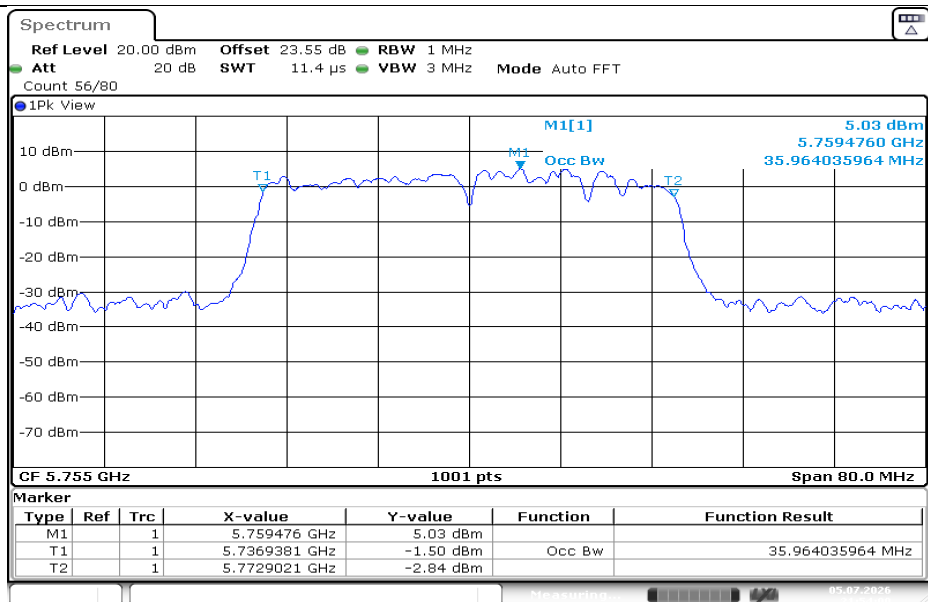
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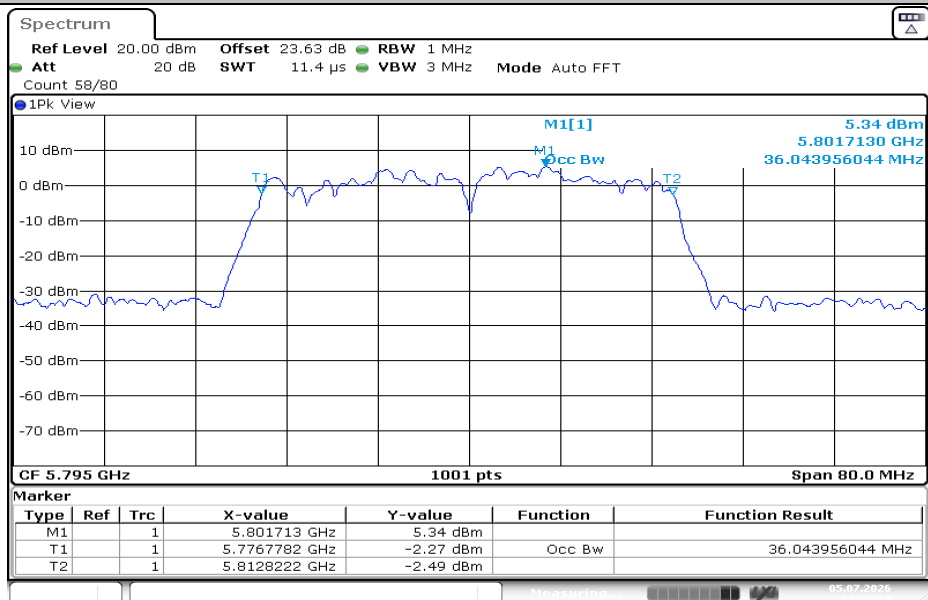
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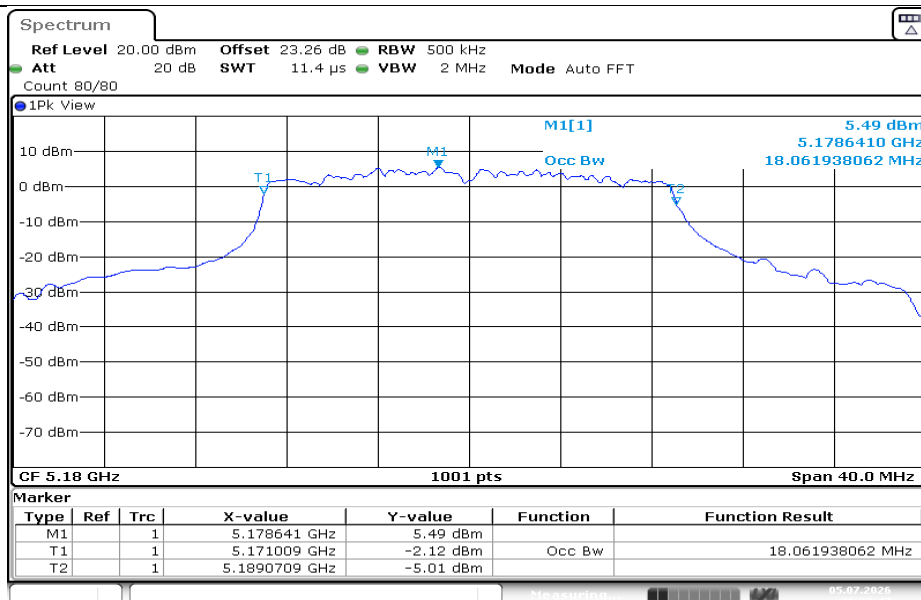
11N40SISO-Ant1-5230



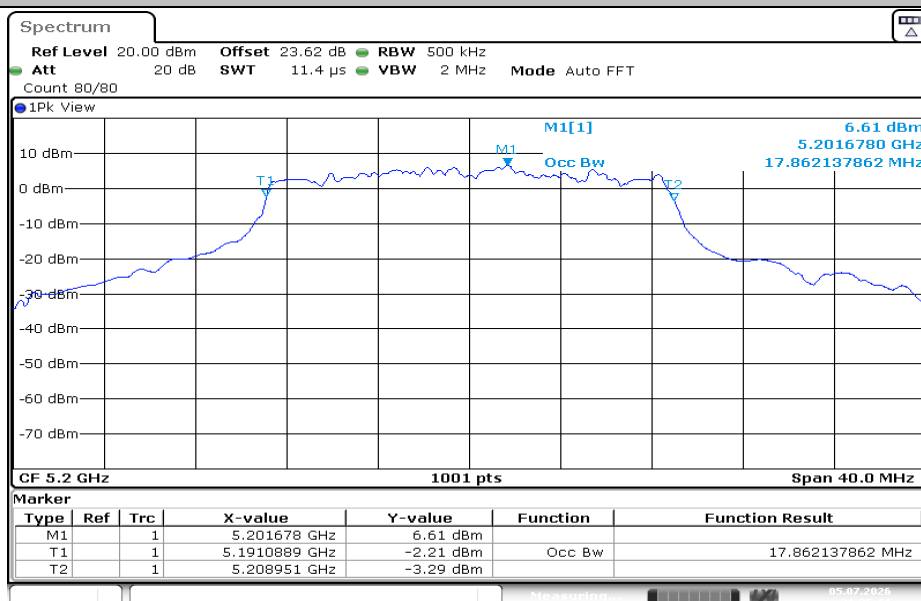
11N40SISO-Ant1-5755



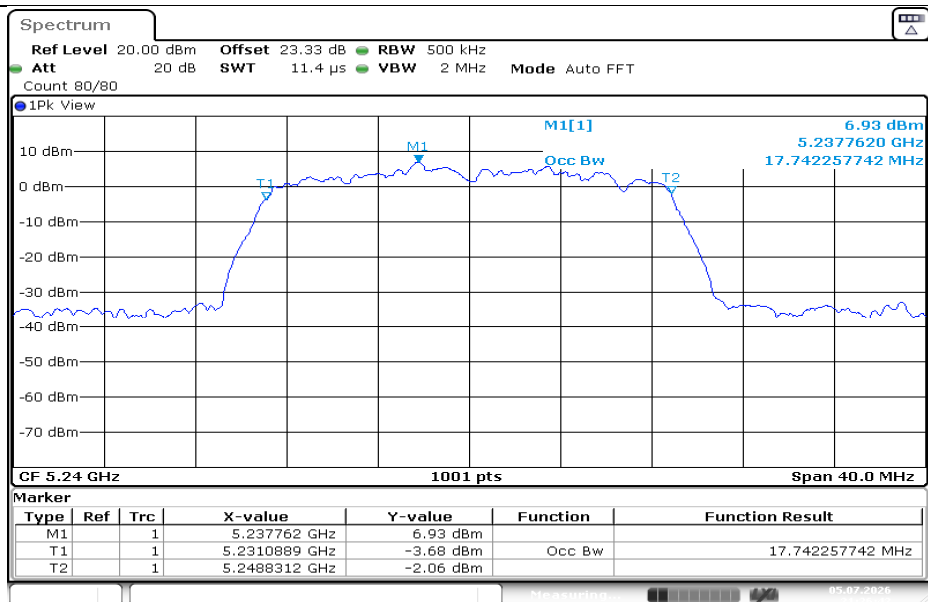
11N40SISO-Ant1-5795



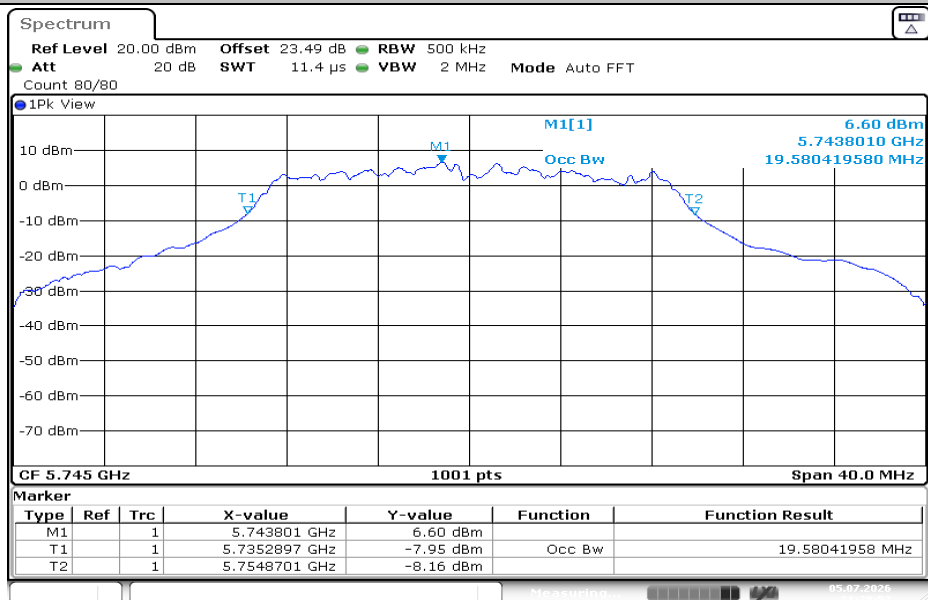
11AC20SISO-Ant1-5180



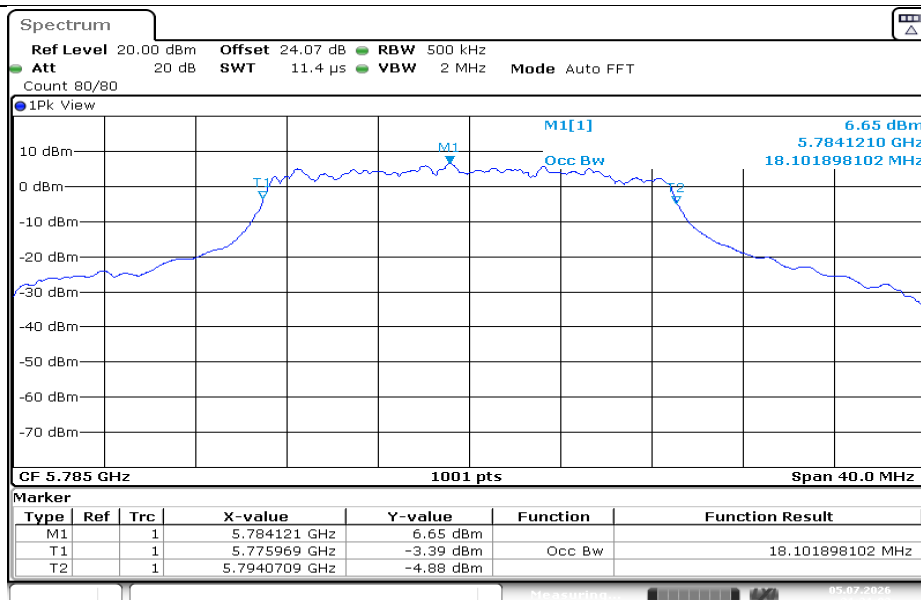
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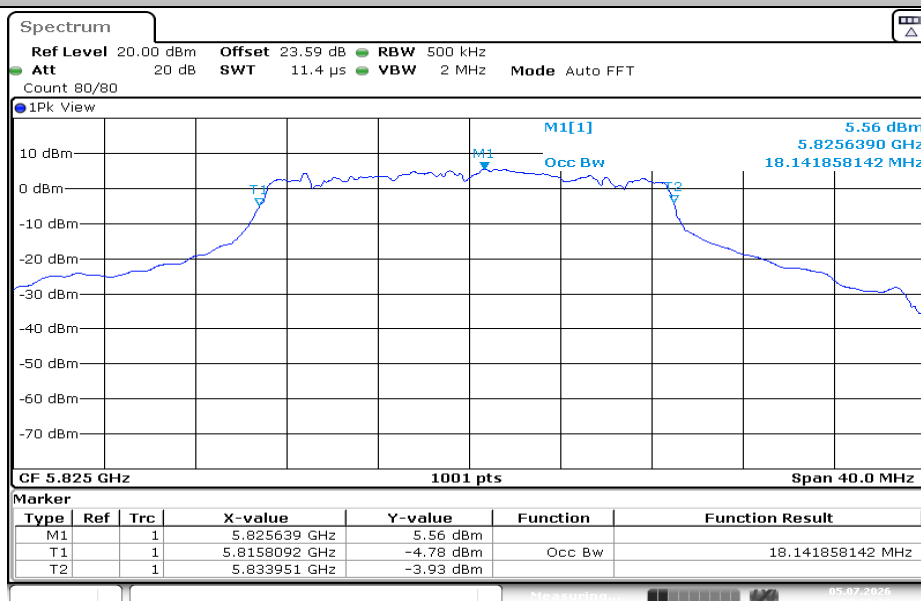
11AC20SISO-Ant1-5240



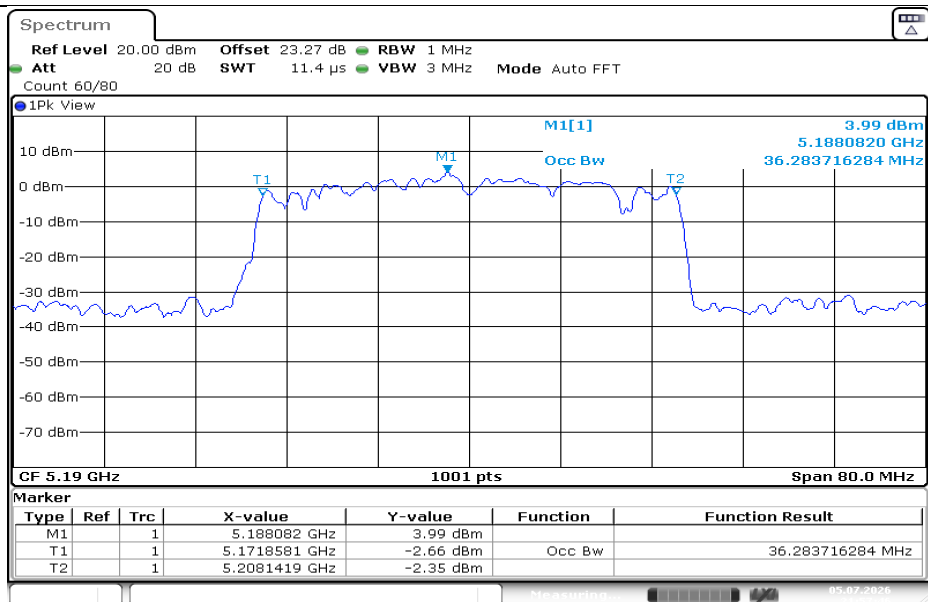
11AC20SISO-Ant1-5745



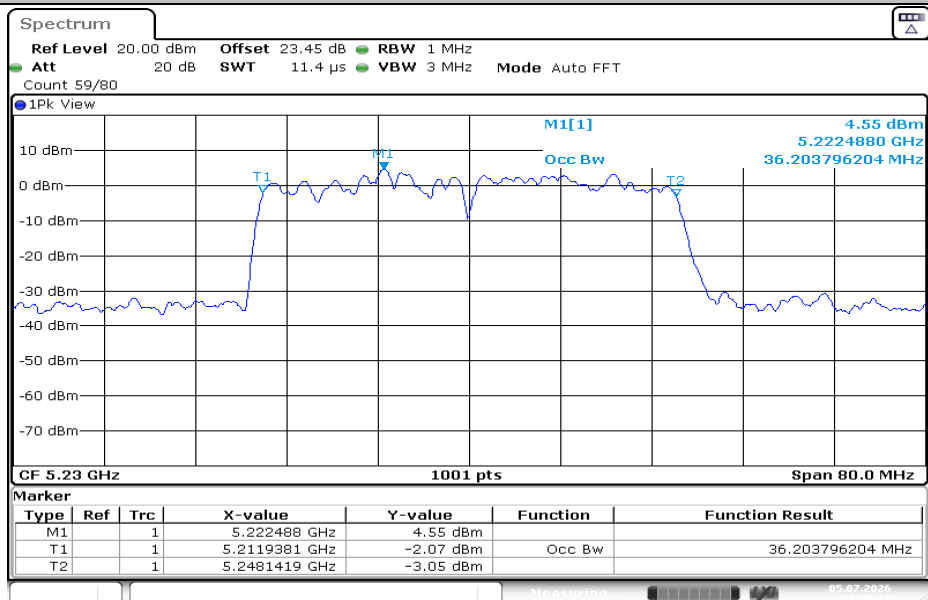
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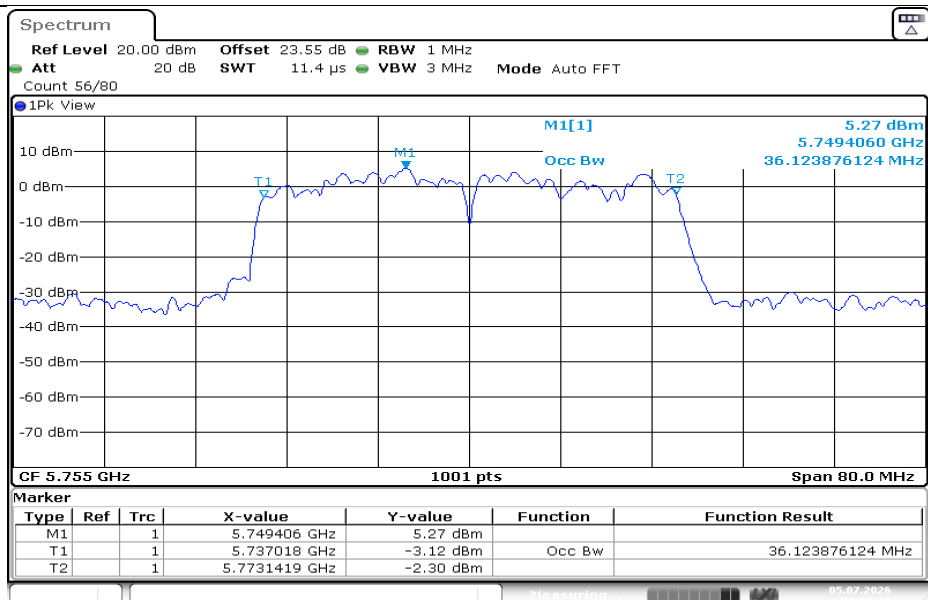
11AC20SISO-Ant1-5825



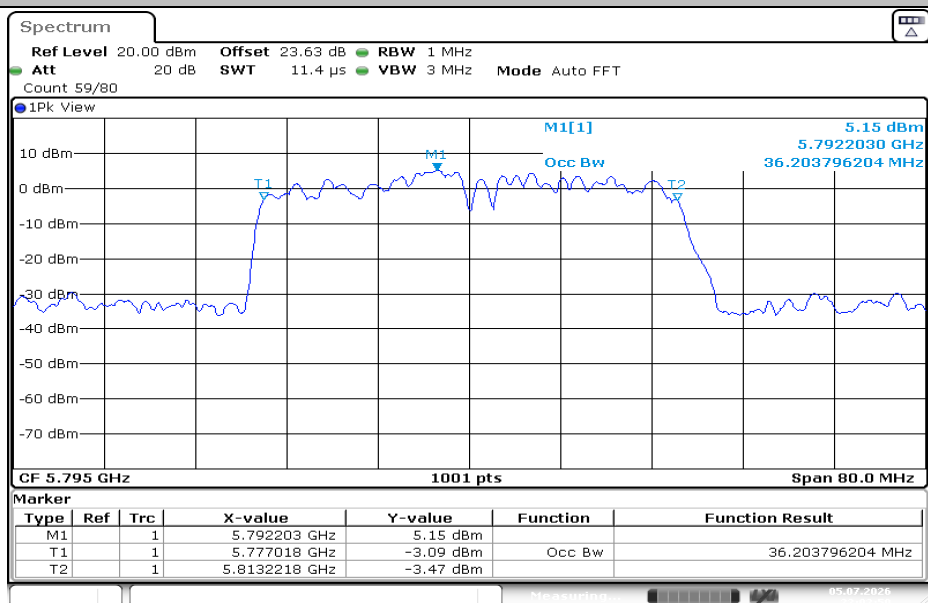
11AC40SISO-Ant1-5190



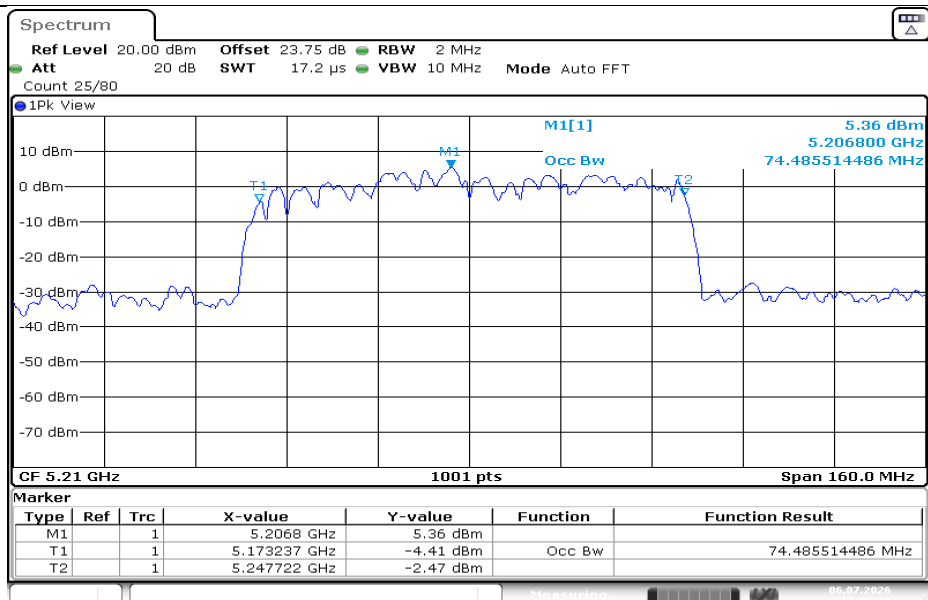
11AC40SISO-Ant1-5230



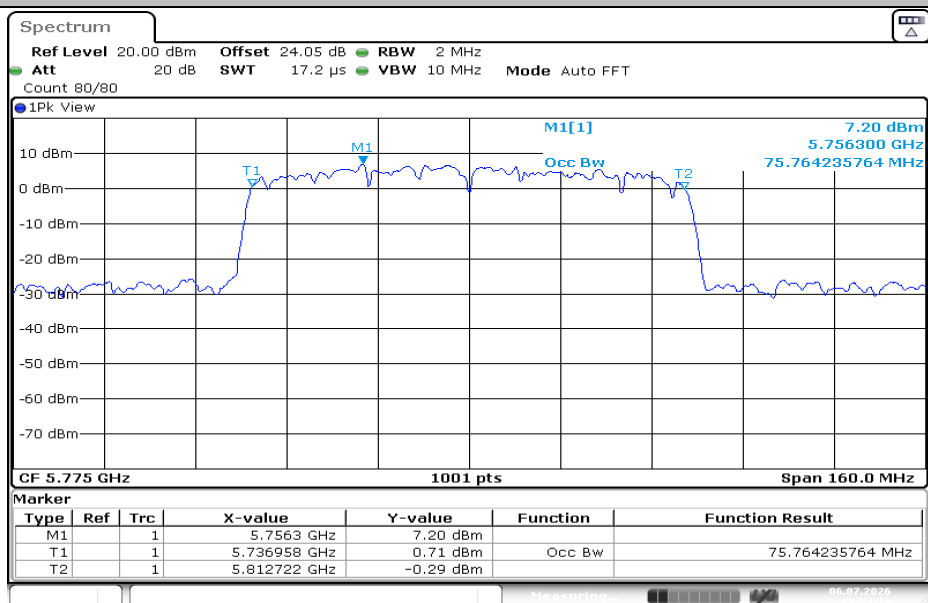
11AC40ISO-Ant1-5755



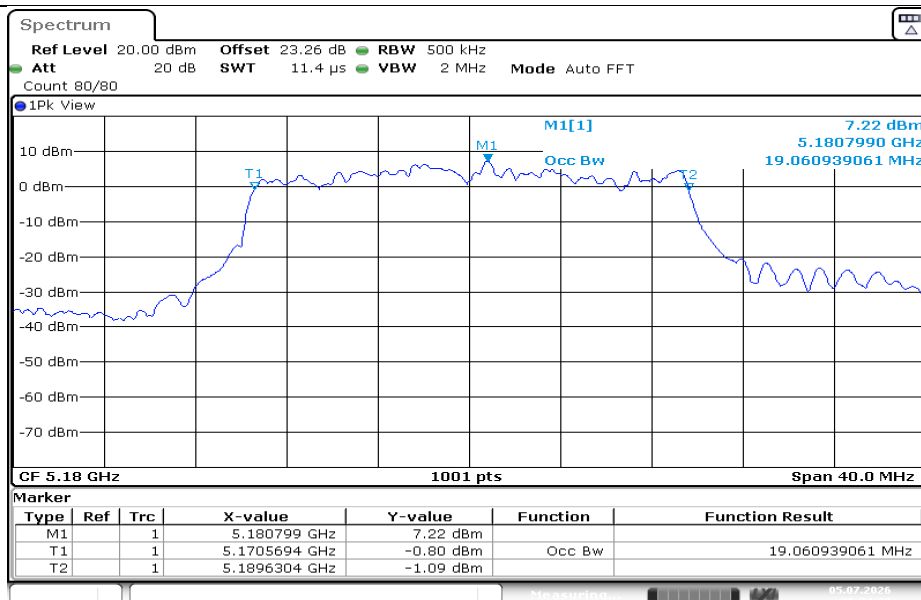
11AC40ISO-Ant1-5795



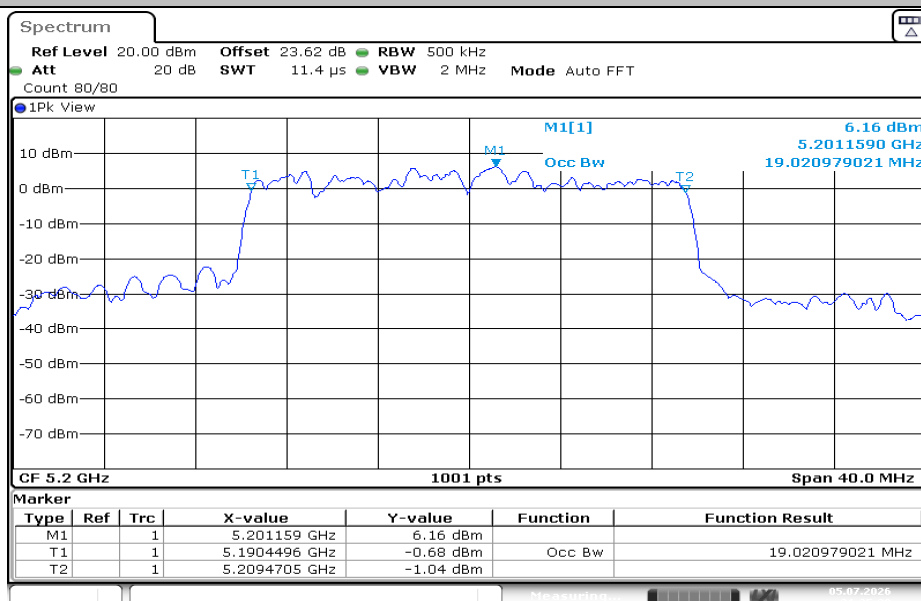
11AC80SISO-Ant1-5210



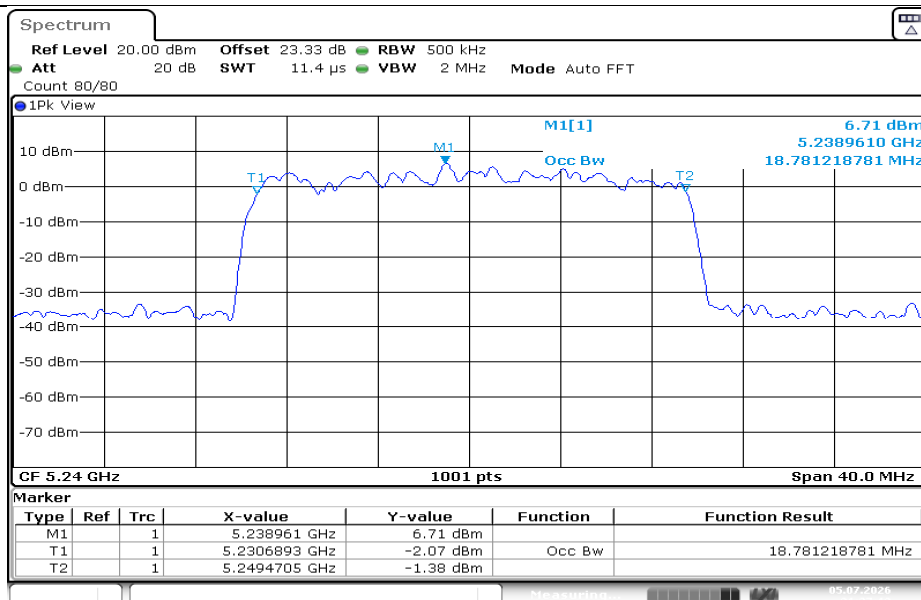
11AC80SISO-Ant1-5775



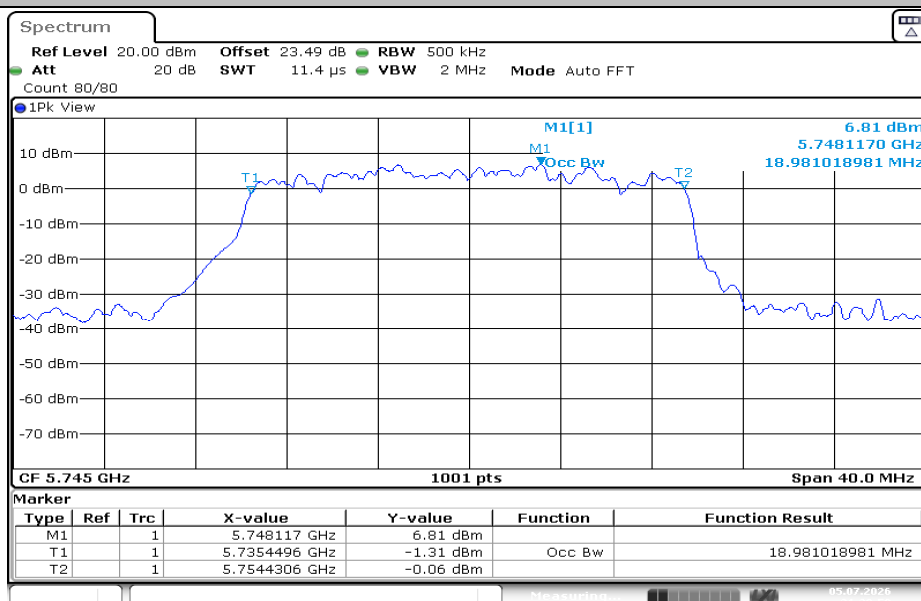
11AX20SISO-Ant1-5180



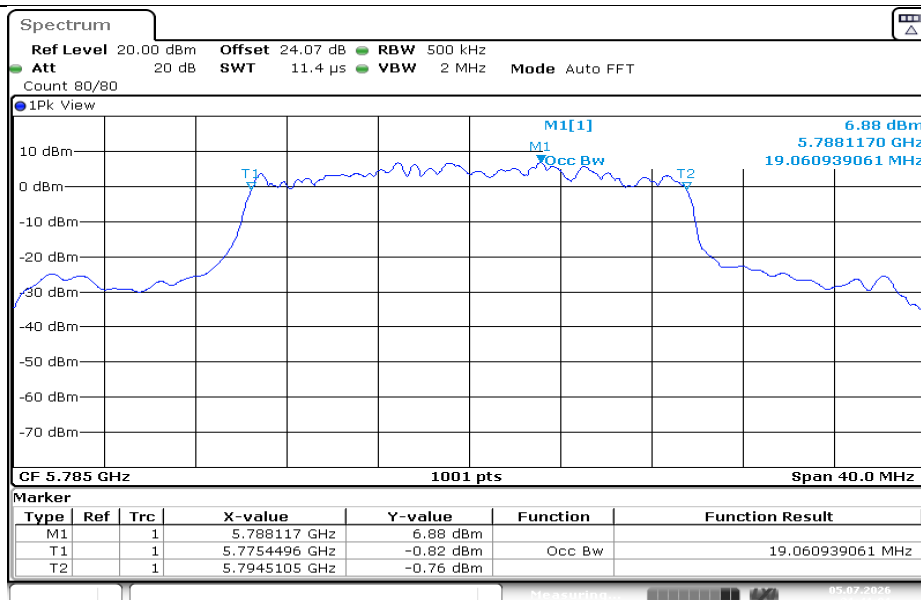
11AX20SISO-Ant1-5200



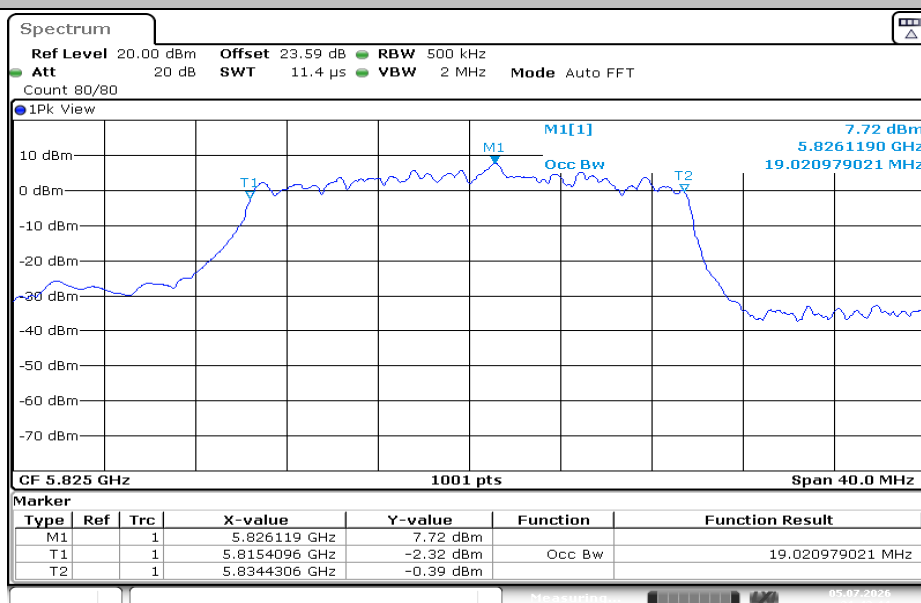
11AX20SISO-Ant1-5240



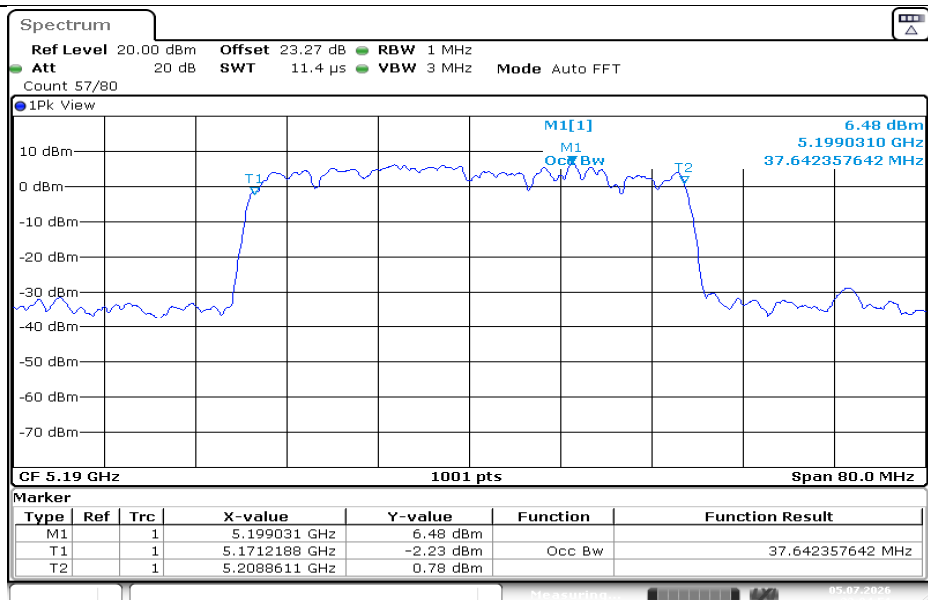
11AX20SISO-Ant1-5745



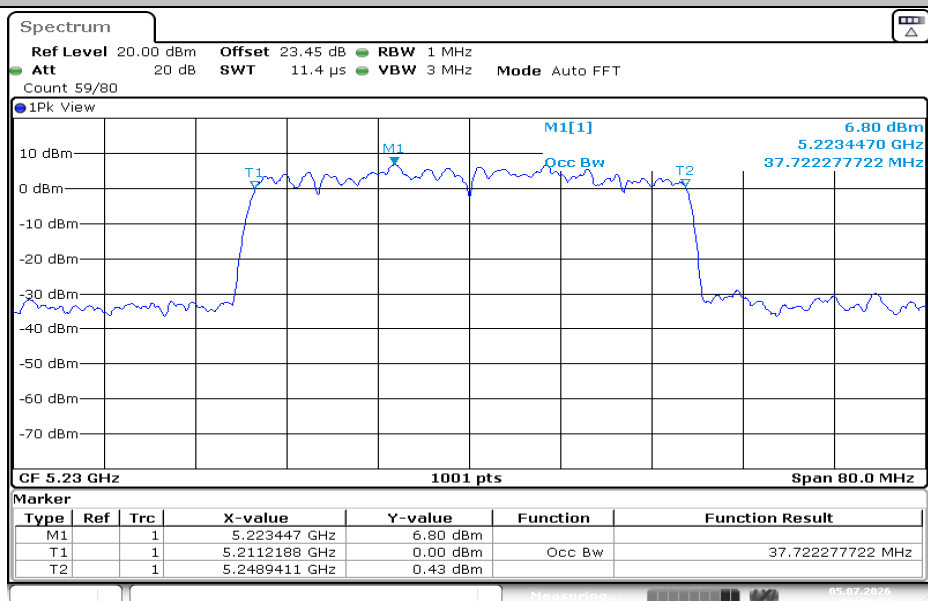
11AX20SISO-Ant1-5785



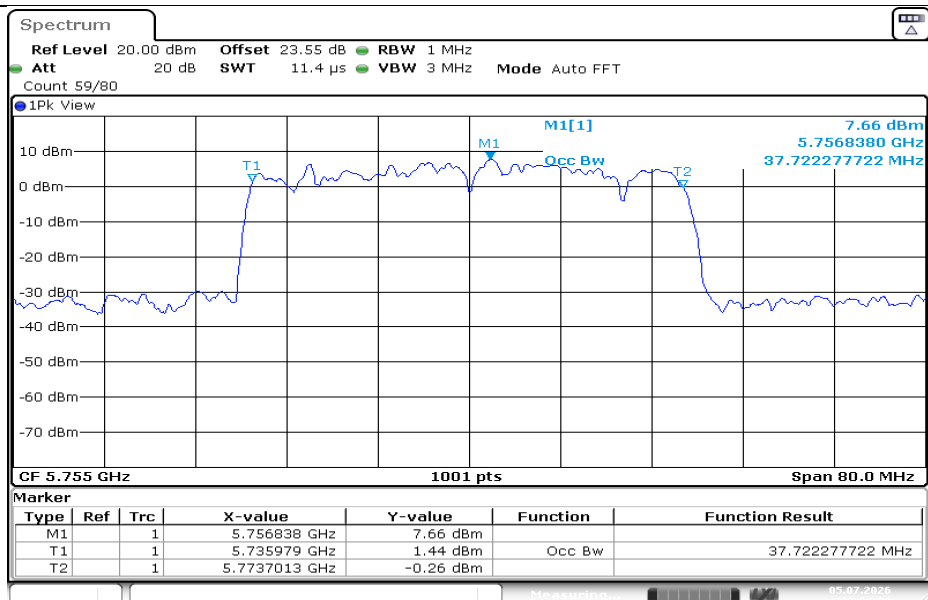
11AX20SISO-Ant1-5825



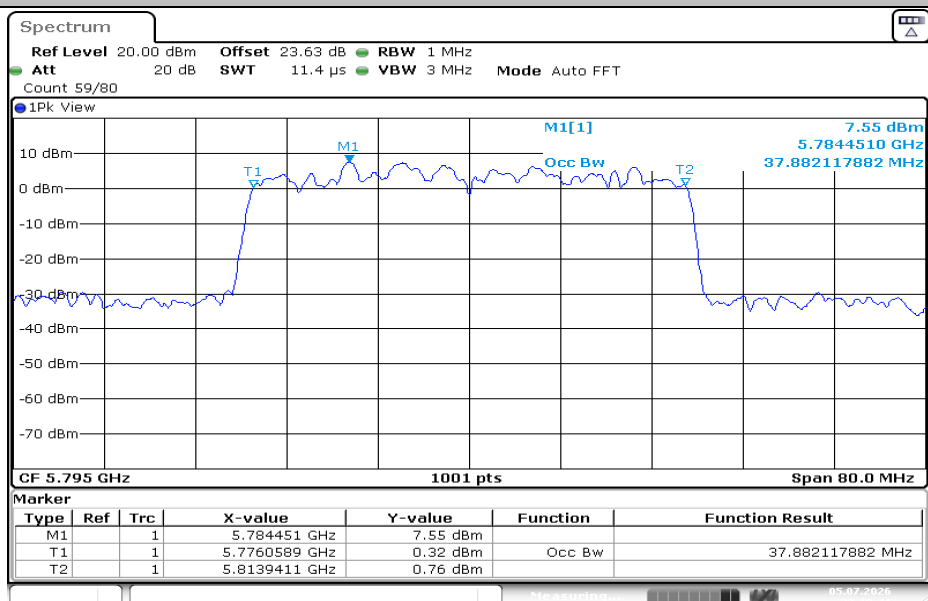
11AX40SISO-Ant1-5190



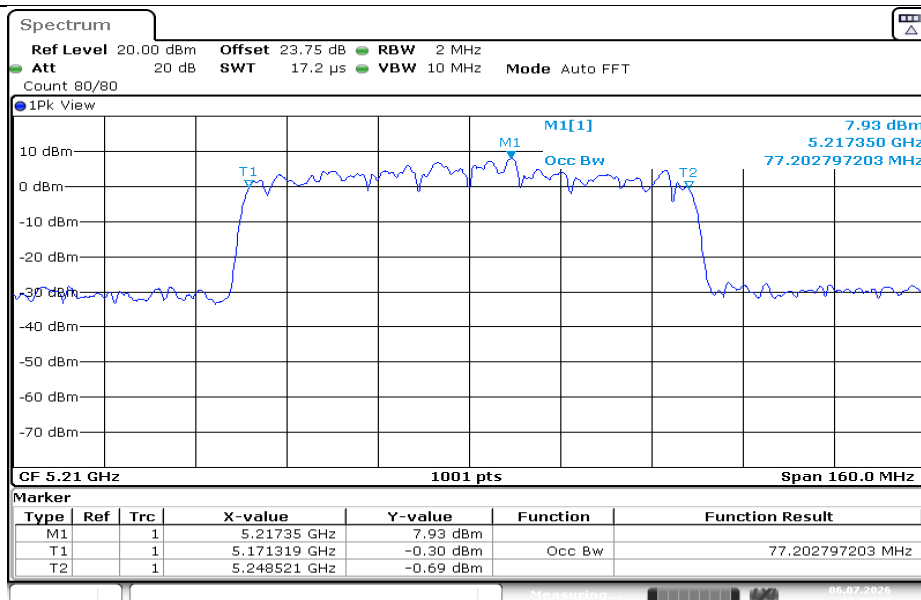
11AX40SISO-Ant1-5230



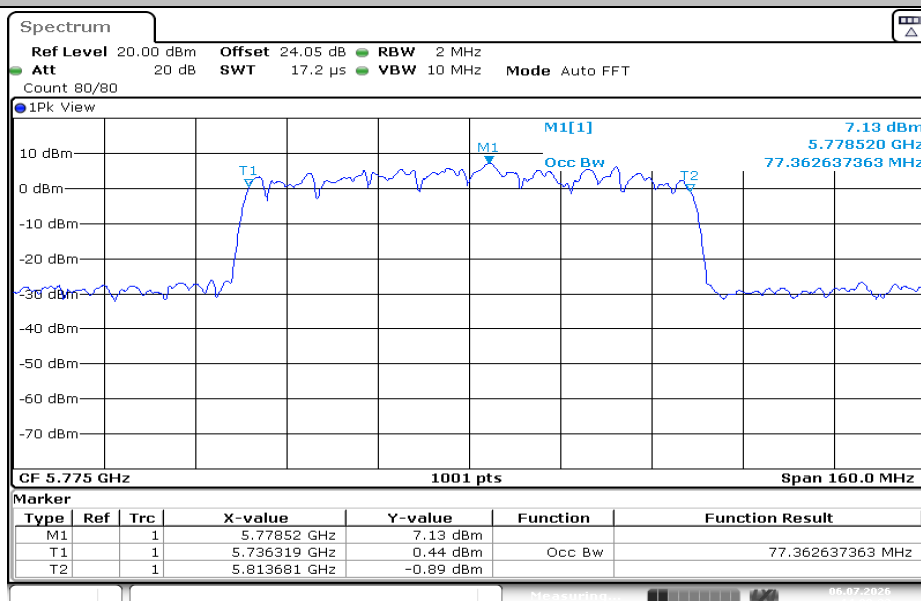
11AX40SISO-Ant1-5755



11AX40SISO-Ant1-5795



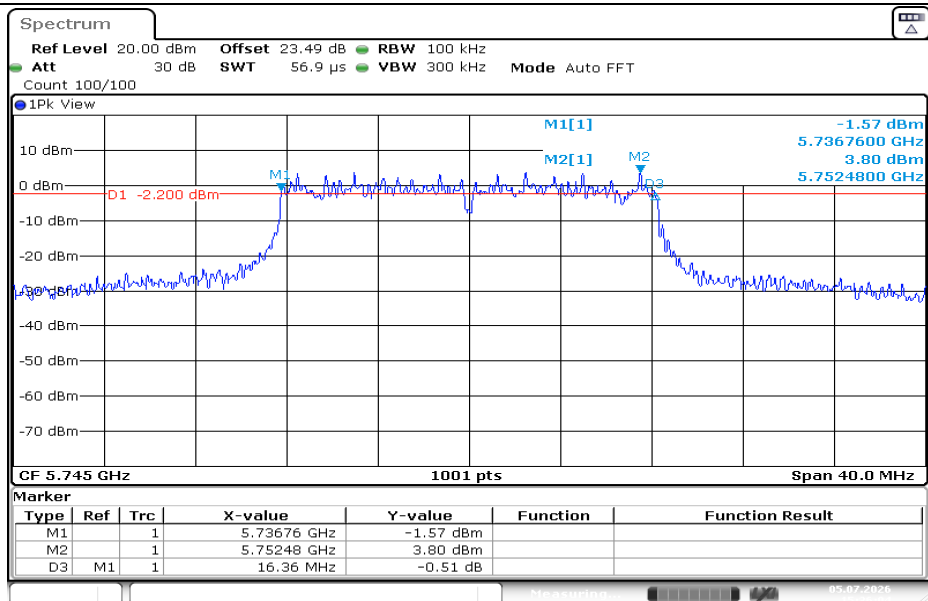
11AX80SISO-Ant1-5210



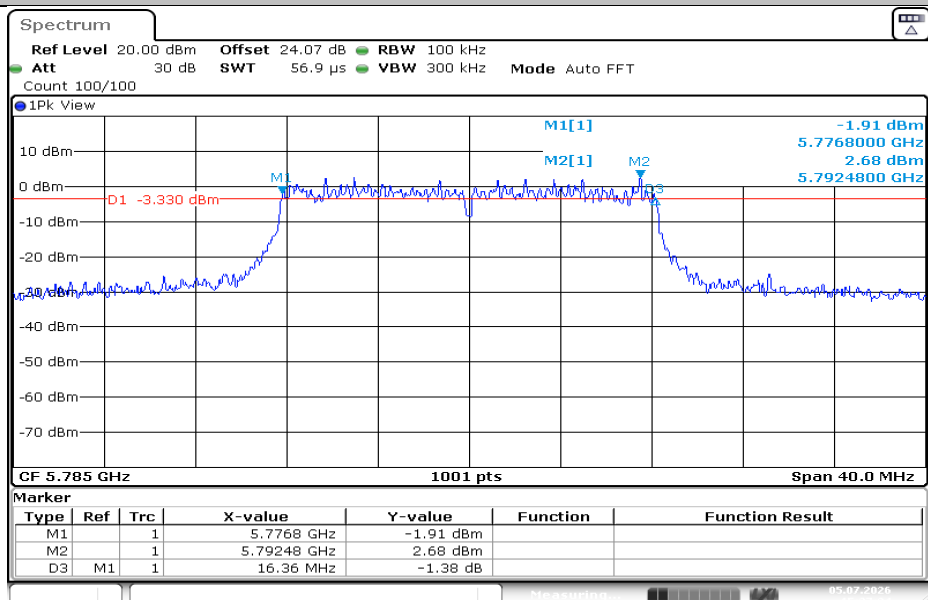
11AX80SISO-Ant1-5775

Min emission bandwidth

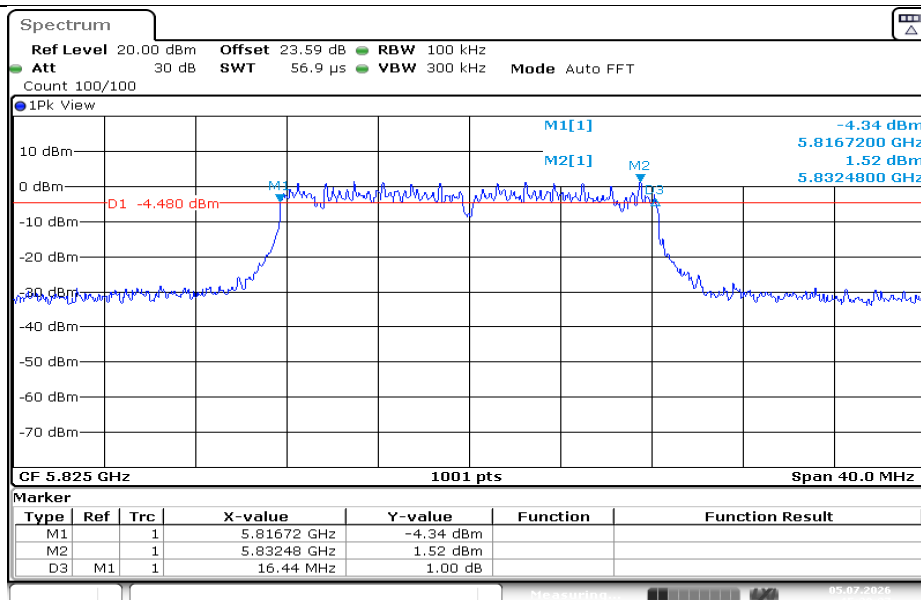
Test Mode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.76	5753.12	0.5	PASS
11A	Ant1	5785	16.36	5776.80	5793.16	0.5	PASS
11A	Ant1	5825	16.44	5816.72	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.16	5736.56	5753.72	0.5	PASS
11N20SISO	Ant1	5785	17.56	5776.16	5793.72	0.5	PASS
11N20SISO	Ant1	5825	17.08	5816.56	5833.64	0.5	PASS
11N40SISO	Ant1	5755	36.00	5737.16	5773.16	0.5	PASS
11N40SISO	Ant1	5795	35.12	5777.48	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	17.60	5736.20	5753.80	0.5	PASS
11AC20SISO	Ant1	5785	15.48	5777.08	5792.56	0.5	PASS
11AC20SISO	Ant1	5825	16.68	5816.44	5833.12	0.5	PASS
11AC40SISO	Ant1	5755	32.56	5737.48	5770.04	0.5	PASS
11AC40SISO	Ant1	5795	32.64	5779.96	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	69.44	5738.68	5808.12	0.5	PASS
11AX20SISO	Ant1	5745	18.44	5735.72	5754.16	0.5	PASS
11AX20SISO	Ant1	5785	15.20	5777.36	5792.56	0.5	PASS
11AX20SISO	Ant1	5825	14.88	5816.44	5831.32	0.5	PASS
11AX40SISO	Ant1	5755	36.64	5736.60	5773.24	0.5	PASS
11AX40SISO	Ant1	5795	37.60	5776.20	5813.80	0.5	PASS
11AX80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS



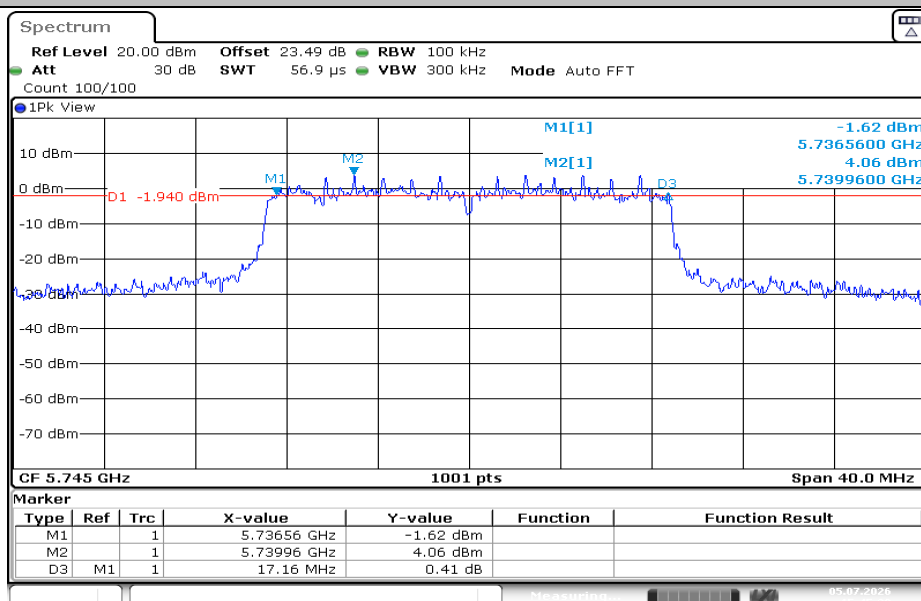
11A-Ant1-5745-PASS



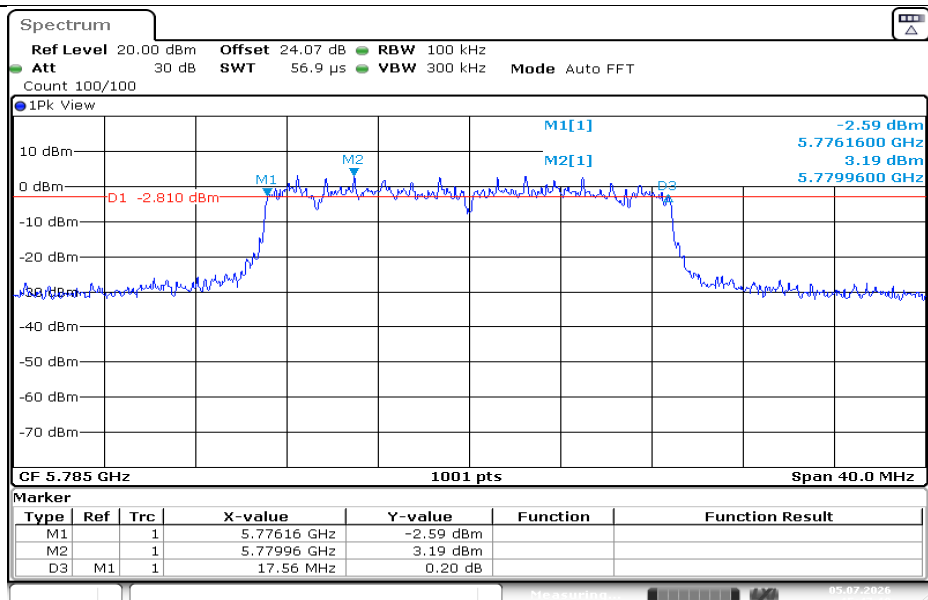
11A-Ant1-5785-PASS



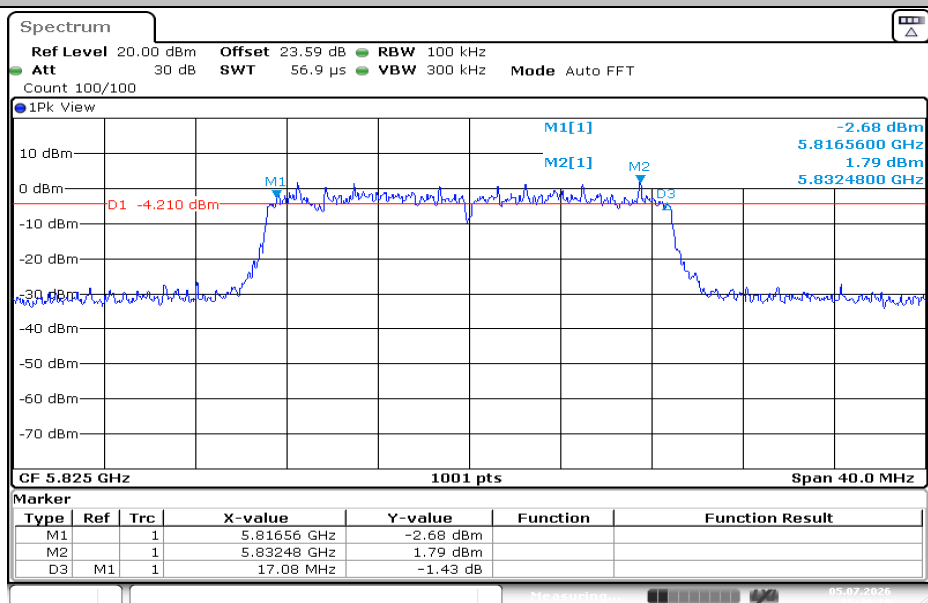
11A-Ant1-5825-PASS



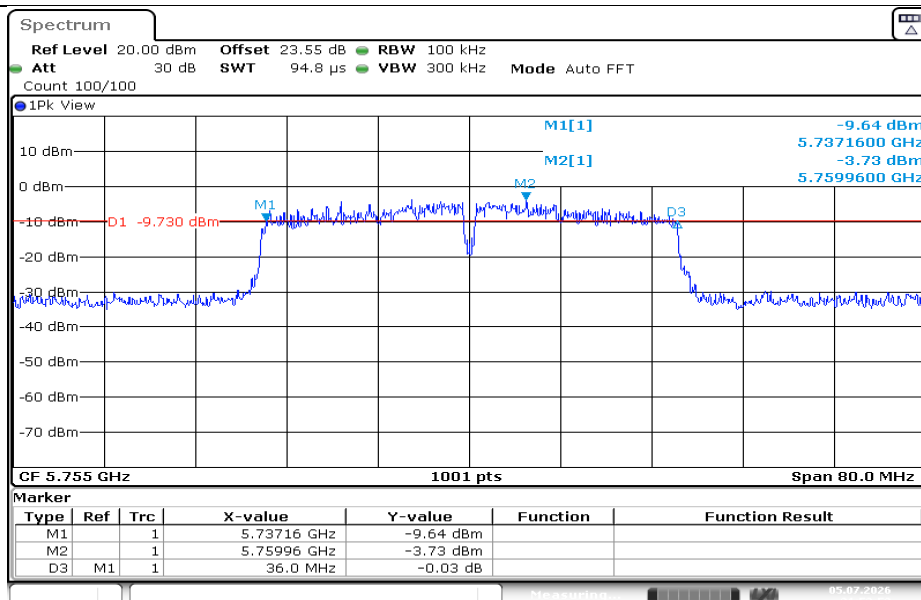
11N20SISO-Ant1-5745-PASS



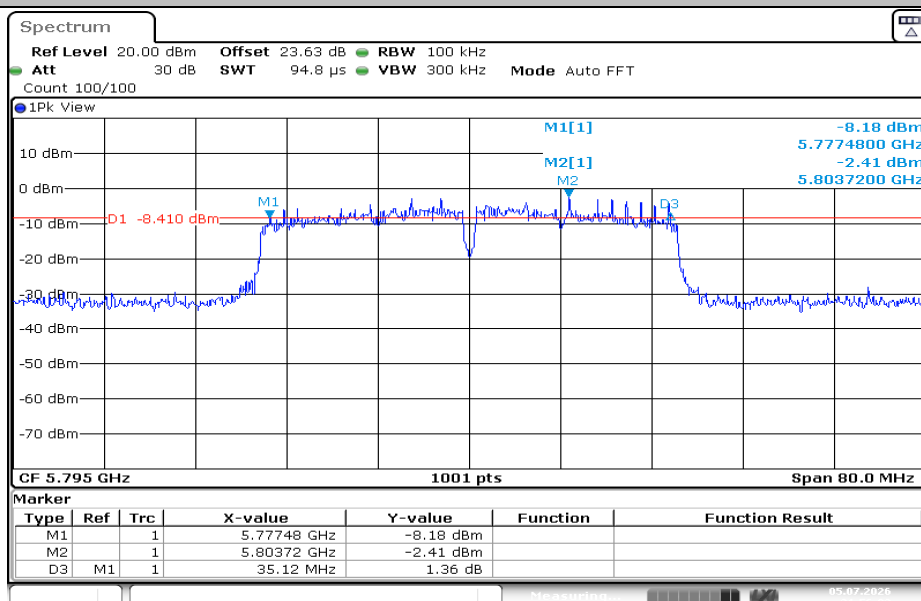
11N20SISO-Ant1-5785-PASS



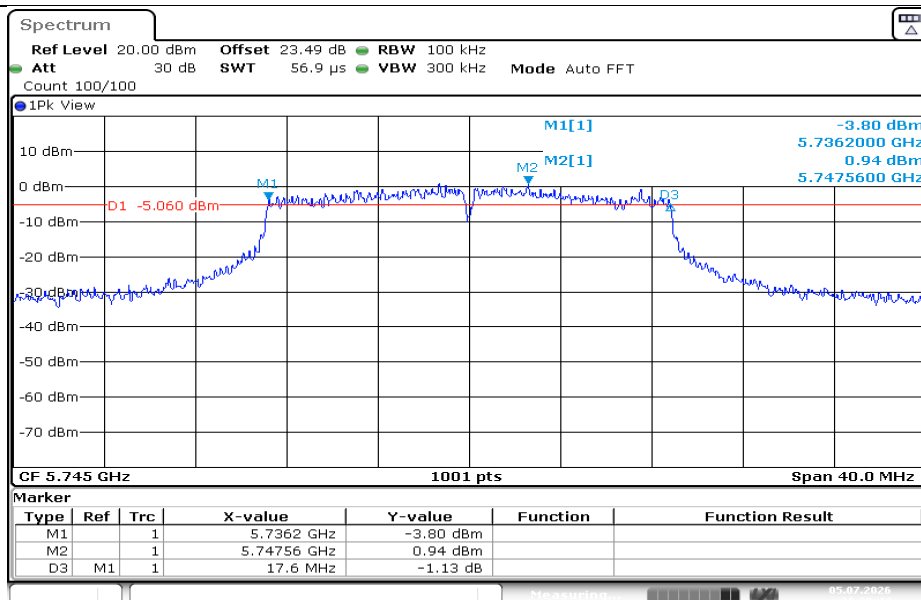
11N20SISO-Ant1-5825-PASS



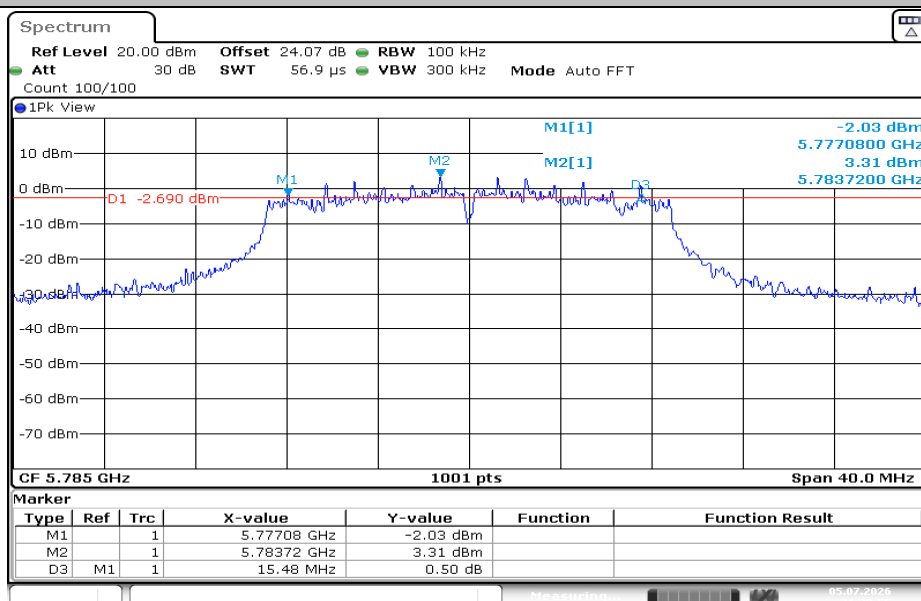
11N40SISO-Ant1-5755-PASS



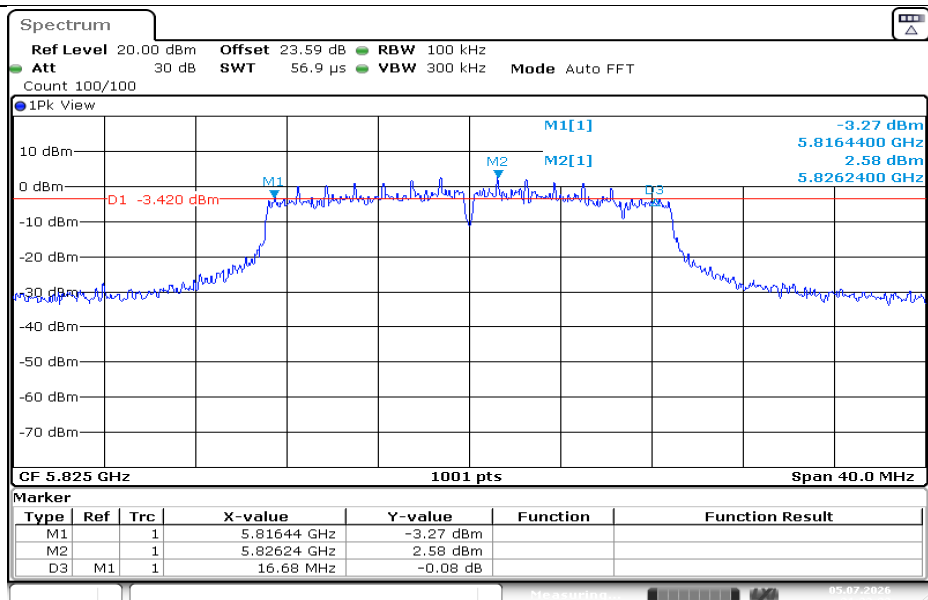
11N40SISO-Ant1-5795-PASS



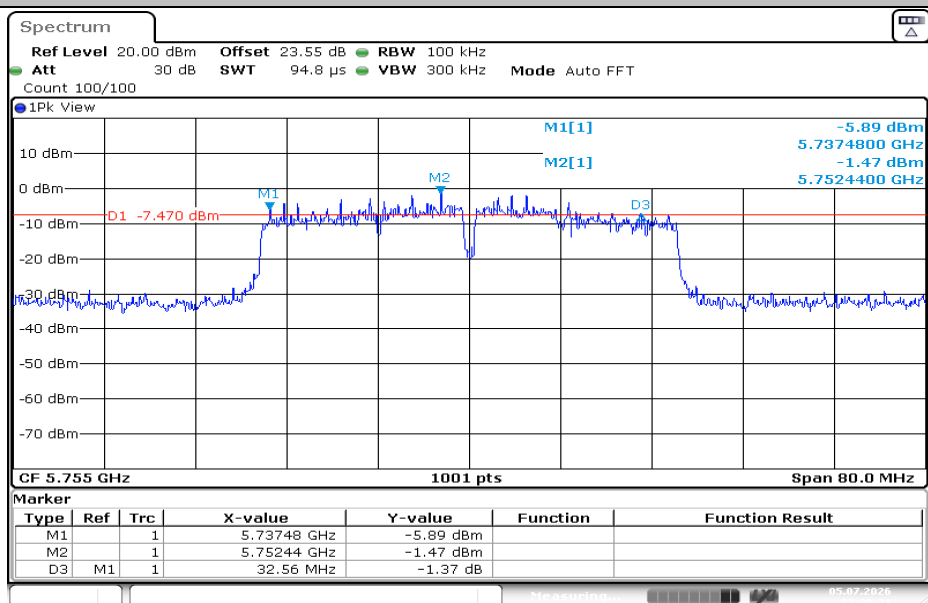
11AC20SISO-Ant1-5745-PASS



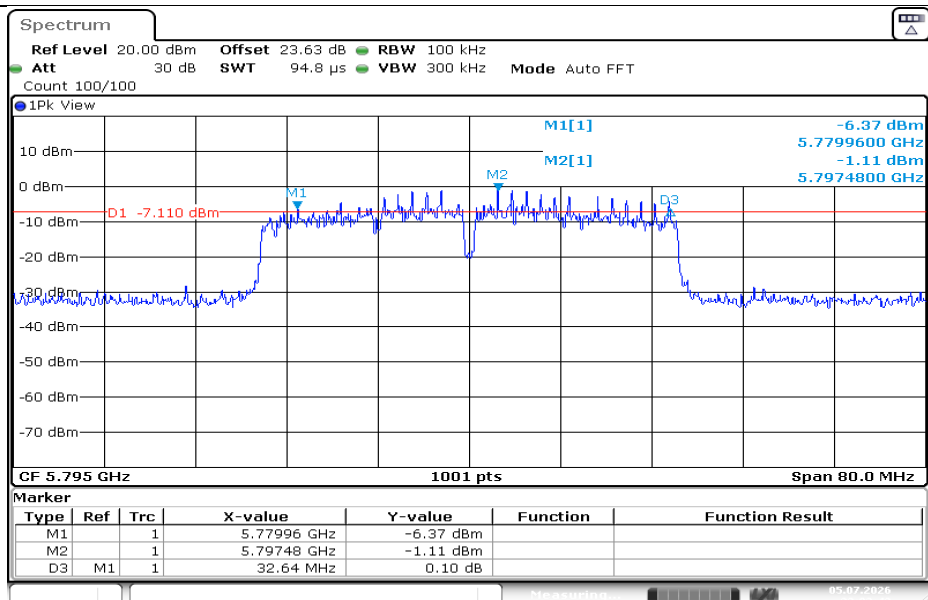
11AC20SISO-Ant1-5785-PASS



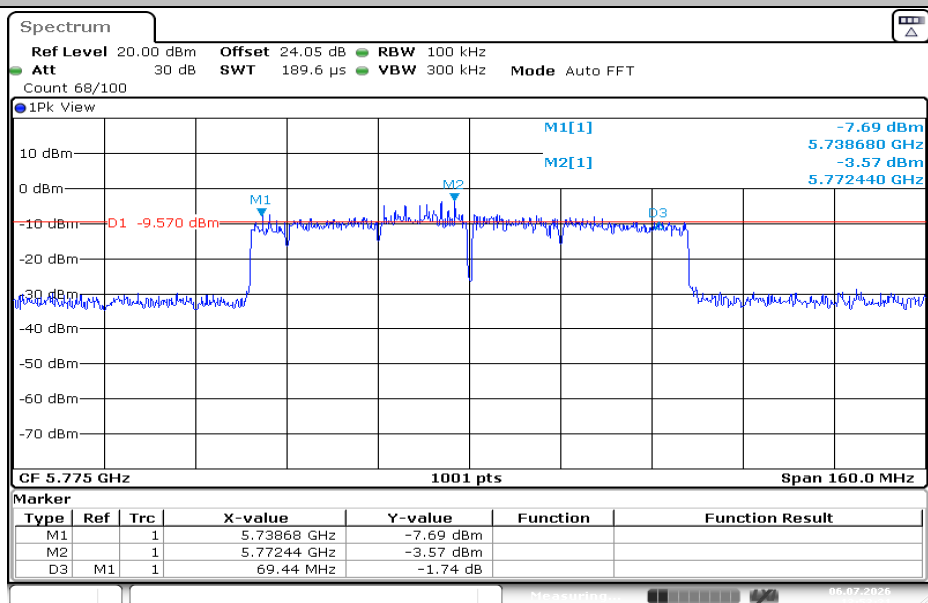
11AC20SISO-Ant1-5825-PASS



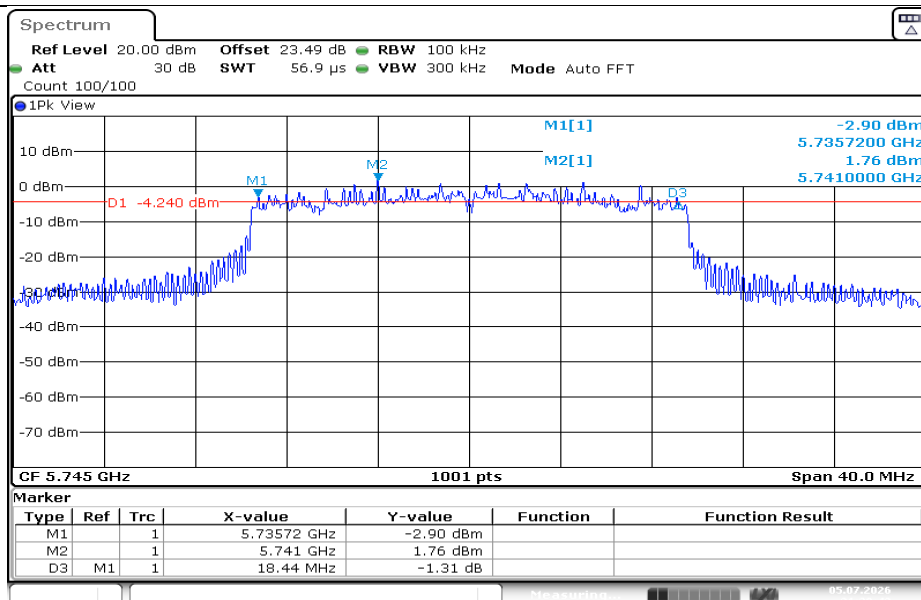
11AC40SISO-Ant1-5755-PASS



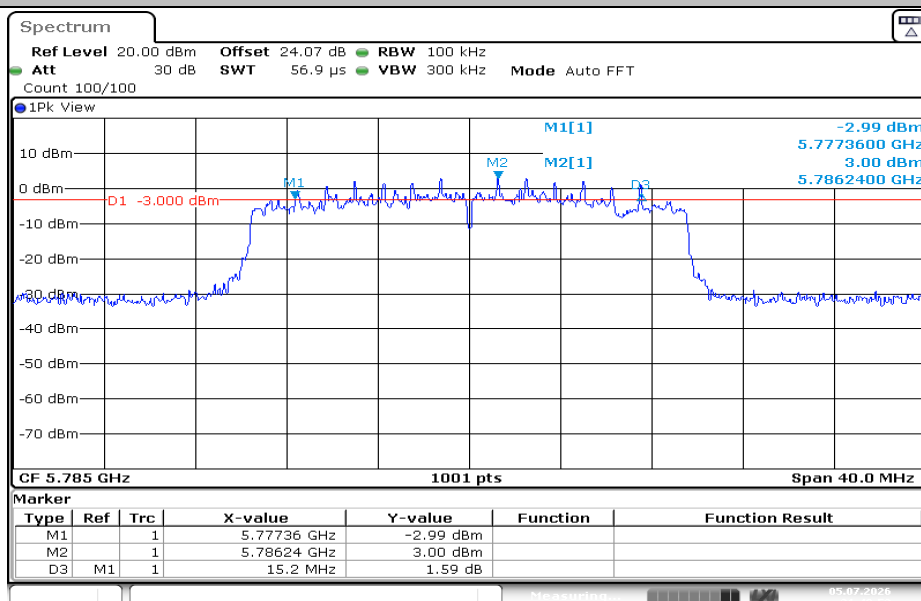
11AC40SISO-Ant1-5795-PASS



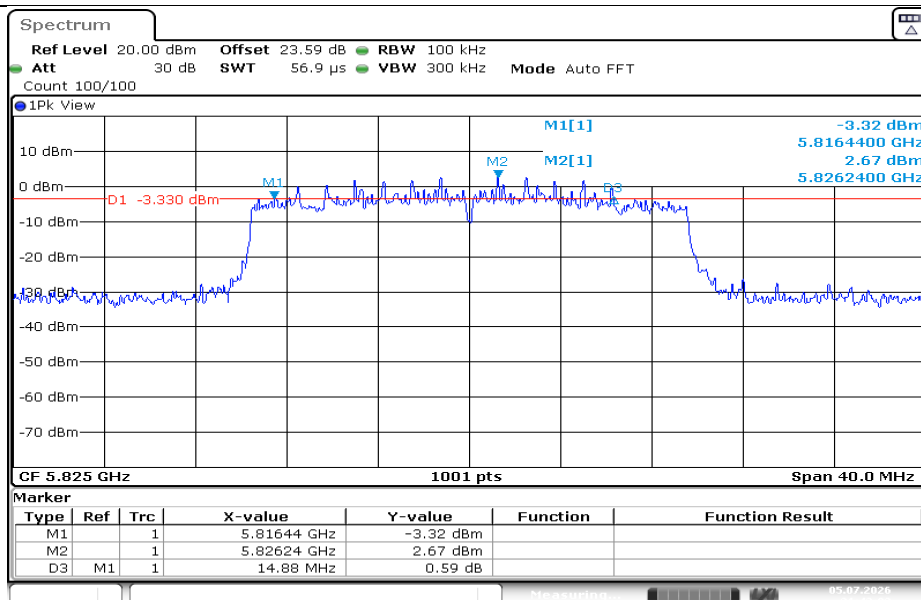
11AC80SISO-Ant1-5775-PASS



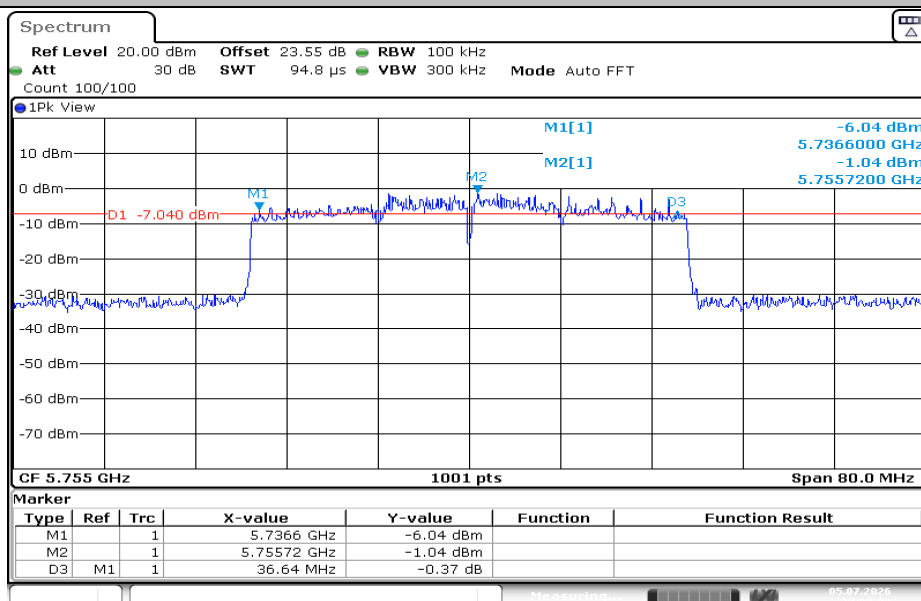
11AX20SISO-Ant1-5745-PASS



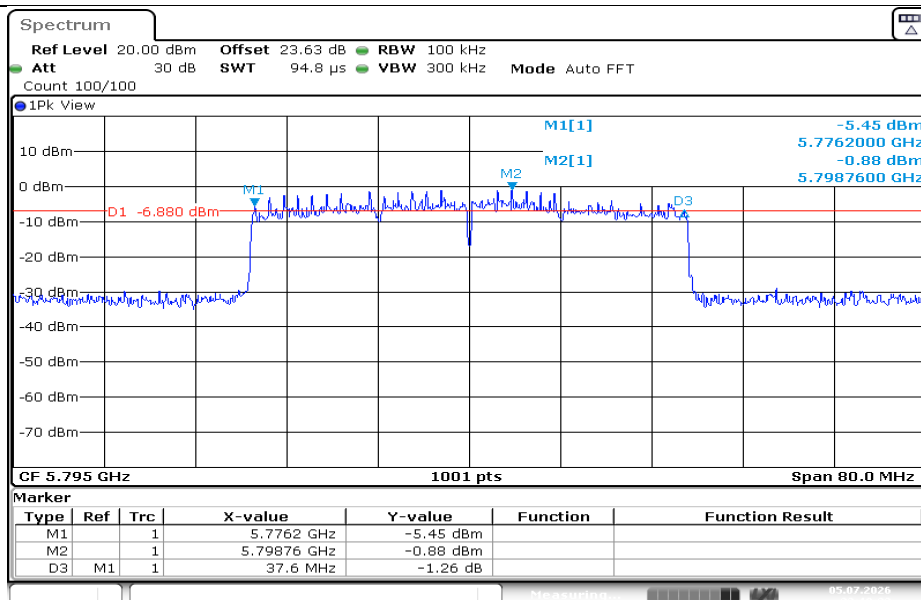
11AX20SISO-Ant1-5785-PASS



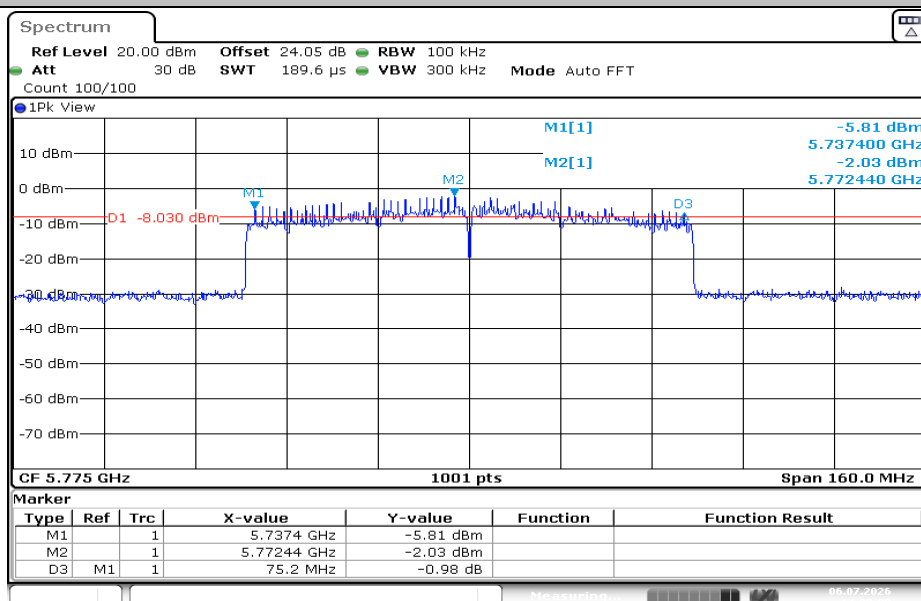
11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



11AX40SISO-Ant1-5795-PASS



11AX80SISO-Ant1-5775-PASS

3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	Master device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

3.4.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

3.4.3 Test Setup



3.4.4 Table of Parameters of Text Software Setting

UNII-1			
Test Software Version	adb.exe		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	Default	Default	Default
IEEE 802.11n20	Default	Default	Default
IEEE 802.11ac20	Default	Default	Default
IEEE 802.11ax20	Default	Default	Default
Frequency (MHz)	5190	5230	
IEEE 802.11n40	Default	Default	
IEEE 802.11ac40	Default	Default	
IEEE 802.11ax40	Default	Default	
Frequency (MHz)	5210		
IEEE 802.11ac80	Default		
IEEE 802.11ax80	Default		

UNII-3			
Test Software Version	adb.exe		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	Default	Default	Default
IEEE 802.11n20	Default	Default	Default
IEEE 802.11ac20	Default	Default	Default
IEEE 802.11ax20	Default	Default	Default
Frequency (MHz)	5755	5795	
IEEE 802.11n40	Default	Default	
IEEE 802.11ac40	Default	Default	
IEEE 802.11ax40	Default	Default	
Frequency (MHz)	5775		
IEEE 802.11ac80	Default		
IEEE 802.11ax80	Default		

3.4.5 The Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.46	≤23.98	PASS
11A	Ant1	5200	13.26	≤23.98	PASS
11A	Ant1	5240	13.74	≤23.98	PASS
11A	Ant1	5745	15.91	≤30.00	PASS
11A	Ant1	5785	14.94	≤30.00	PASS
11A	Ant1	5825	14.10	≤30.00	PASS
11N20SISO	Ant1	5180	13.11	≤23.98	PASS
11N20SISO	Ant1	5200	13.38	≤23.98	PASS
11N20SISO	Ant1	5240	13.81	≤23.98	PASS
11N20SISO	Ant1	5745	15.85	≤30.00	PASS
11N20SISO	Ant1	5785	16.16	≤30.00	PASS
11N20SISO	Ant1	5825	14.20	≤30.00	PASS
11N40SISO	Ant1	5190	12.50	≤23.98	PASS
11N40SISO	Ant1	5230	12.65	≤23.98	PASS
11N40SISO	Ant1	5755	12.99	≤30.00	PASS
11N40SISO	Ant1	5795	12.46	≤30.00	PASS
11AC20SISO	Ant1	5180	13.57	≤23.98	PASS
11AC20SISO	Ant1	5200	13.94	≤23.98	PASS
11AC20SISO	Ant1	5240	13.72	≤23.98	PASS
11AC20SISO	Ant1	5745	14.10	≤30.00	PASS
11AC20SISO	Ant1	5785	14.17	≤30.00	PASS
11AC20SISO	Ant1	5825	13.77	≤30.00	PASS
11AC40SISO	Ant1	5190	12.24	≤23.98	PASS
11AC40SISO	Ant1	5230	12.58	≤23.98	PASS
11AC40SISO	Ant1	5755	12.94	≤30.00	PASS
11AC40SISO	Ant1	5795	12.22	≤30.00	PASS
11AC80SISO	Ant1	5210	13.63	≤23.98	PASS
11AC80SISO	Ant1	5775	13.94	≤30.00	PASS
11AX20SISO	Ant1	5180	13.75	≤23.98	PASS
11AX20SISO	Ant1	5200	13.95	≤23.98	PASS
11AX20SISO	Ant1	5240	13.78	≤23.98	PASS
11AX20SISO	Ant1	5745	14.16	≤30.00	PASS
11AX20SISO	Ant1	5785	13.93	≤30.00	PASS
11AX20SISO	Ant1	5825	13.78	≤30.00	PASS
11AX40SISO	Ant1	5190	14.81	≤23.98	PASS
11AX40SISO	Ant1	5230	14.47	≤23.98	PASS
11AX40SISO	Ant1	5755	14.71	≤30.00	PASS
11AX40SISO	Ant1	5795	14.26	≤30.00	PASS
11AX80SISO	Ant1	5210	13.99	≤23.98	PASS
11AX80SISO	Ant1	5775	14.29	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test system

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Master device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty factor+ $10\log(500\text{kHz}/300\text{kHz})$.

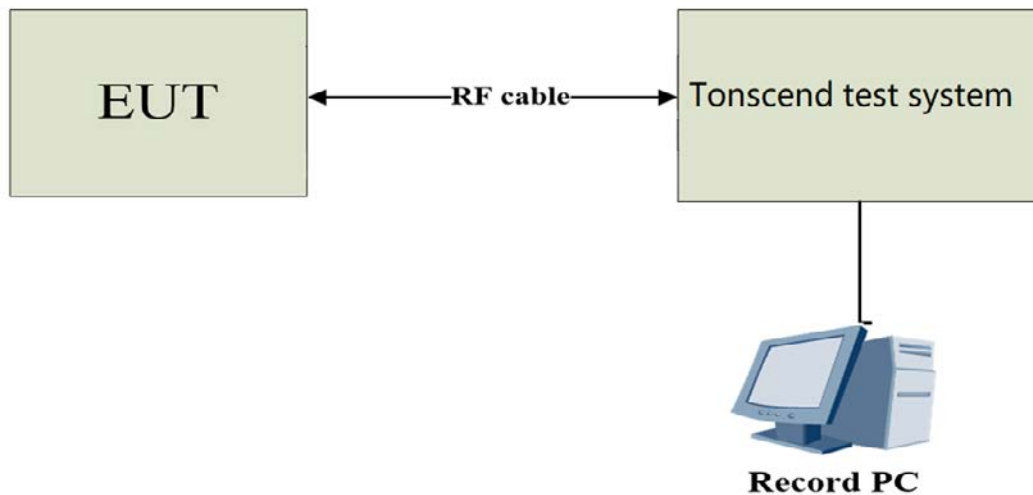
3.5.2 Test Procedure

Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3); = 500kHz (Band4)
VBW	$\geq 3 \times \text{RBW}$
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple

3.5.3 Test Setup



3.5.4 The Result

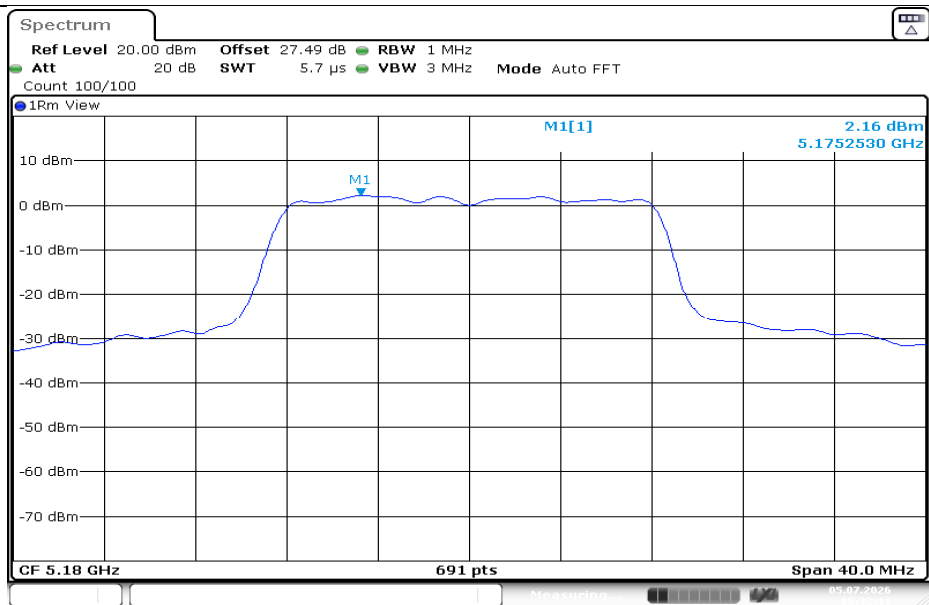
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.16	≤11.00	PASS
11A	Ant1	5200	2.25	≤11.00	PASS
11A	Ant1	5240	2.89	≤11.00	PASS
11A	Ant1	5745	1.45	≤30.00	PASS
11A	Ant1	5785	0.93	≤30.00	PASS
11A	Ant1	5825	0.88	≤30.00	PASS
11N20SISO	Ant1	5180	2.14	≤11.00	PASS
11N20SISO	Ant1	5200	2.12	≤11.00	PASS
11N20SISO	Ant1	5240	2.56	≤11.00	PASS
11N20SISO	Ant1	5745	2.11	≤30.00	PASS
11N20SISO	Ant1	5785	2.09	≤30.00	PASS
11N20SISO	Ant1	5825	0.62	≤30.00	PASS
11N40SISO	Ant1	5190	-0.18	≤11.00	PASS
11N40SISO	Ant1	5230	0.58	≤11.00	PASS
11N40SISO	Ant1	5755	-2.37	≤30.00	PASS
11N40SISO	Ant1	5795	-2.64	≤30.00	PASS
11AC20SISO	Ant1	5180	3.37	≤11.00	PASS
11AC20SISO	Ant1	5200	3.97	≤11.00	PASS
11AC20SISO	Ant1	5240	2.55	≤11.00	PASS
11AC20SISO	Ant1	5745	0.83	≤30.00	PASS
11AC20SISO	Ant1	5785	0.89	≤30.00	PASS
11AC20SISO	Ant1	5825	0.27	≤30.00	PASS
11AC40SISO	Ant1	5190	-0.95	≤11.00	PASS
11AC40SISO	Ant1	5230	0.06	≤11.00	PASS
11AC40SISO	Ant1	5755	-2.13	≤30.00	PASS
11AC40SISO	Ant1	5795	-1.78	≤30.00	PASS

11AC80SISO	Ant1	5210	-1.57	≤11.00	PASS
11AC80SISO	Ant1	5775	-5.96	≤30.00	PASS
11AX20SISO	Ant1	5180	3.42	≤11.00	PASS
11AX20SISO	Ant1	5200	3.80	≤11.00	PASS
11AX20SISO	Ant1	5240	3.41	≤11.00	PASS
11AX20SISO	Ant1	5745	0.89	≤30.00	PASS
11AX20SISO	Ant1	5785	1.16	≤30.00	PASS
11AX20SISO	Ant1	5825	-0.22	≤30.00	PASS
11AX40SISO	Ant1	5190	0.23	≤11.00	PASS
11AX40SISO	Ant1	5230	0.57	≤11.00	PASS
11AX40SISO	Ant1	5755	-1.80	≤30.00	PASS
11AX40SISO	Ant1	5795	-2.53	≤30.00	PASS
11AX80SISO	Ant1	5210	-2.16	≤11.00	PASS
11AX80SISO	Ant1	5775	-5.03	≤30.00	PASS

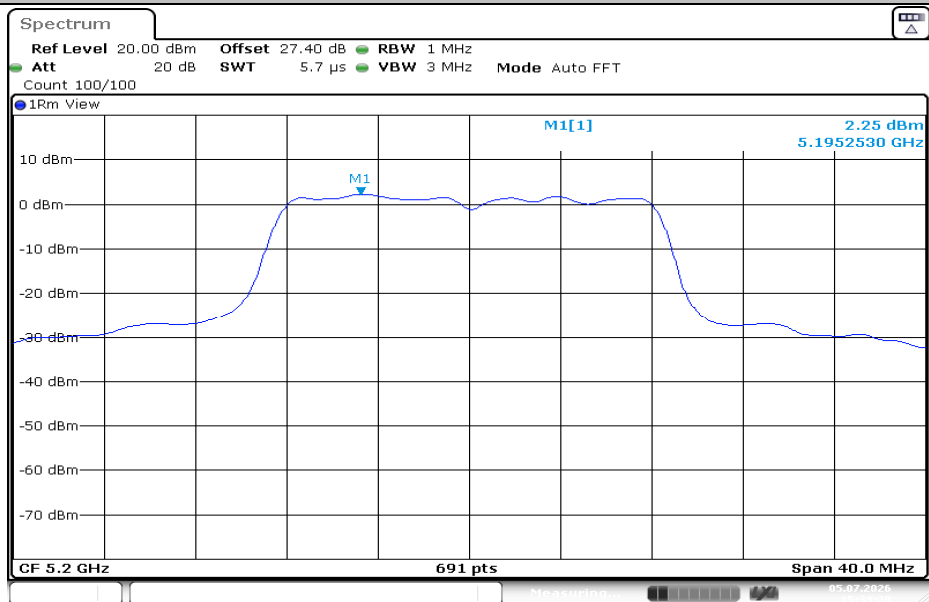
Note: The Duty Cycle Factor is compensated in the test system

For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.

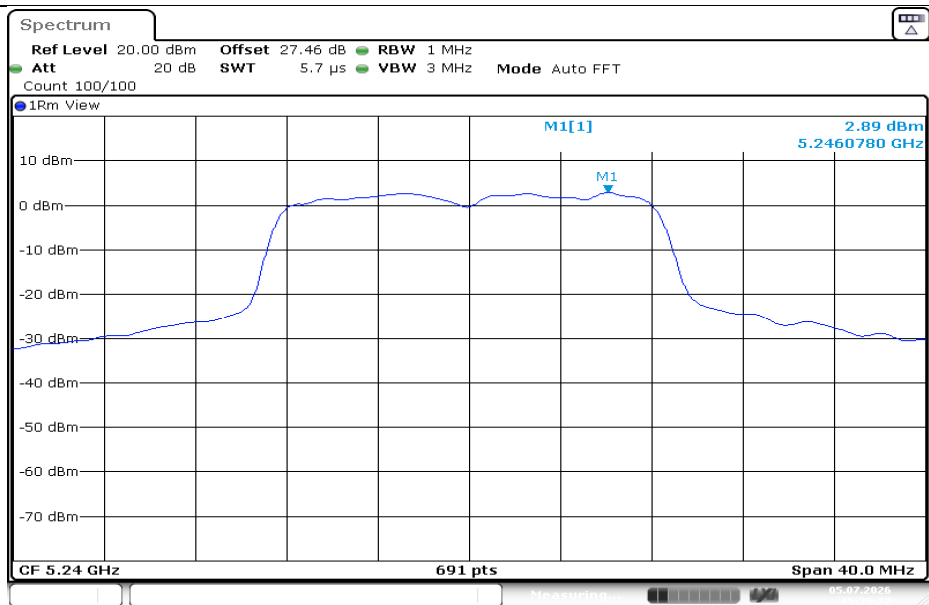
During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, $\text{offset} = \text{cable loss} + \text{duty factor} + 10 \log(500 \text{ kHz}/300 \text{ kHz})$.



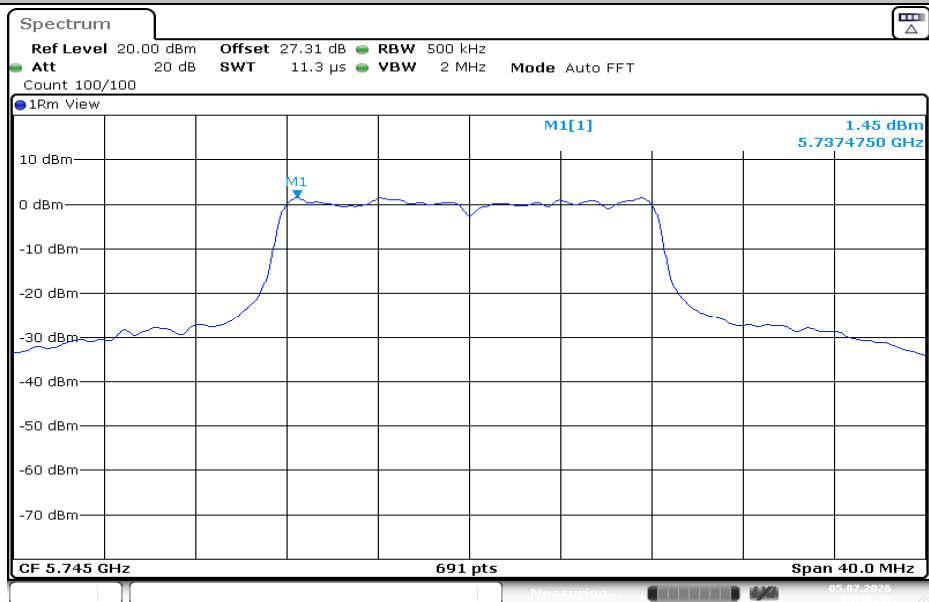
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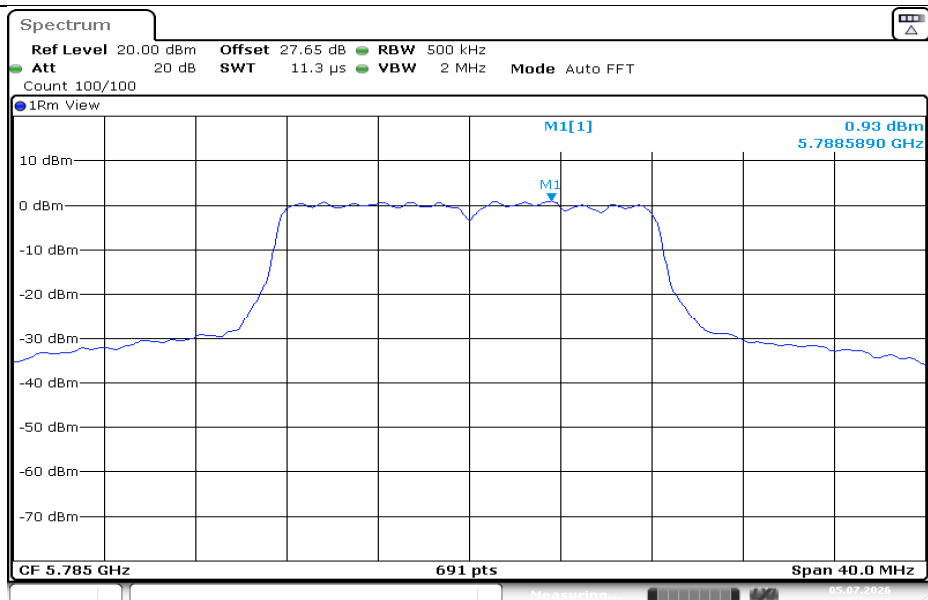
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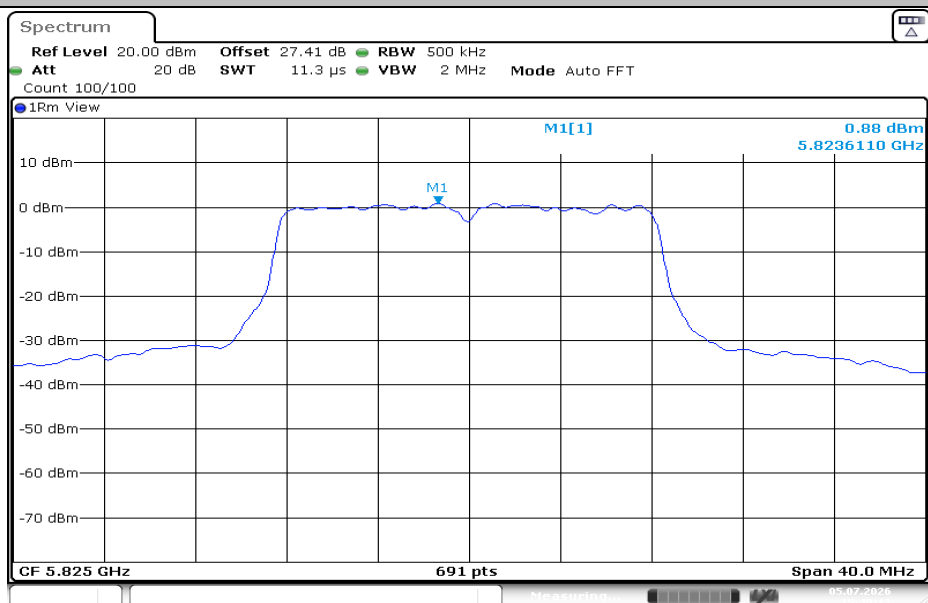
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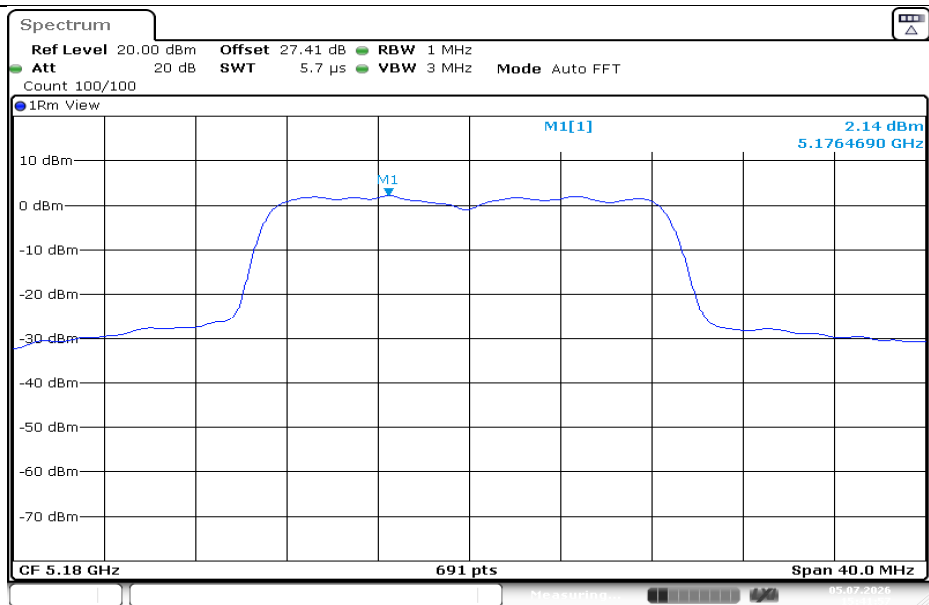
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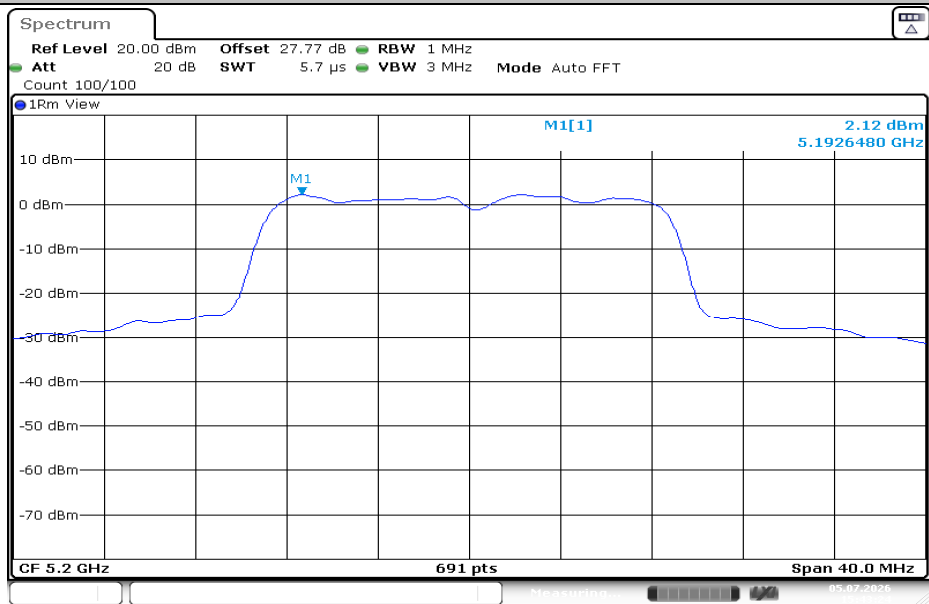
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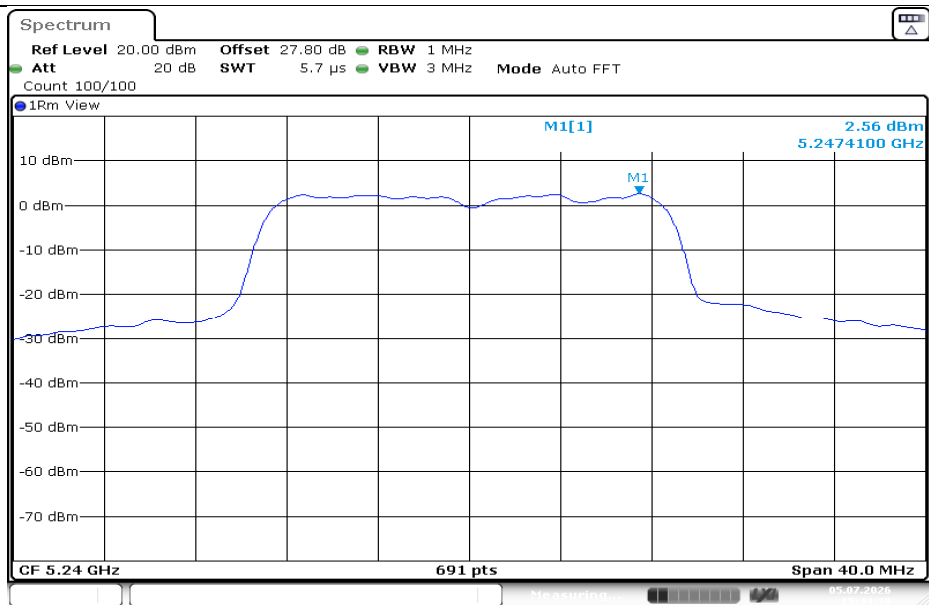
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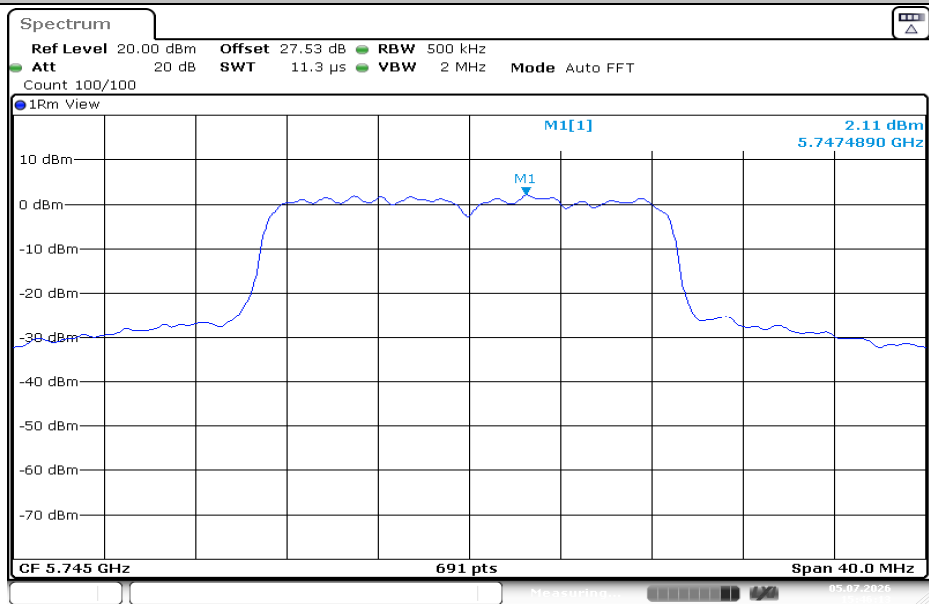
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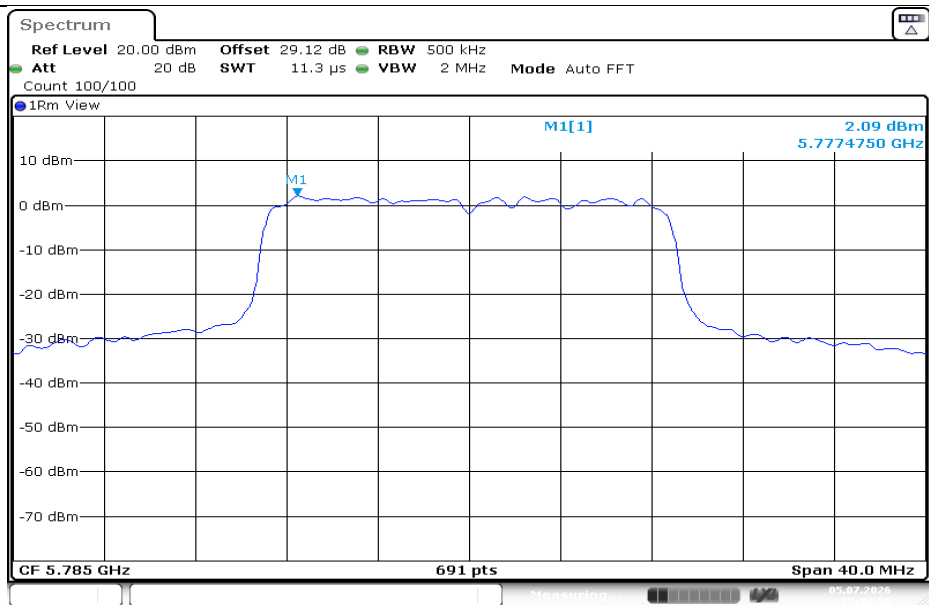
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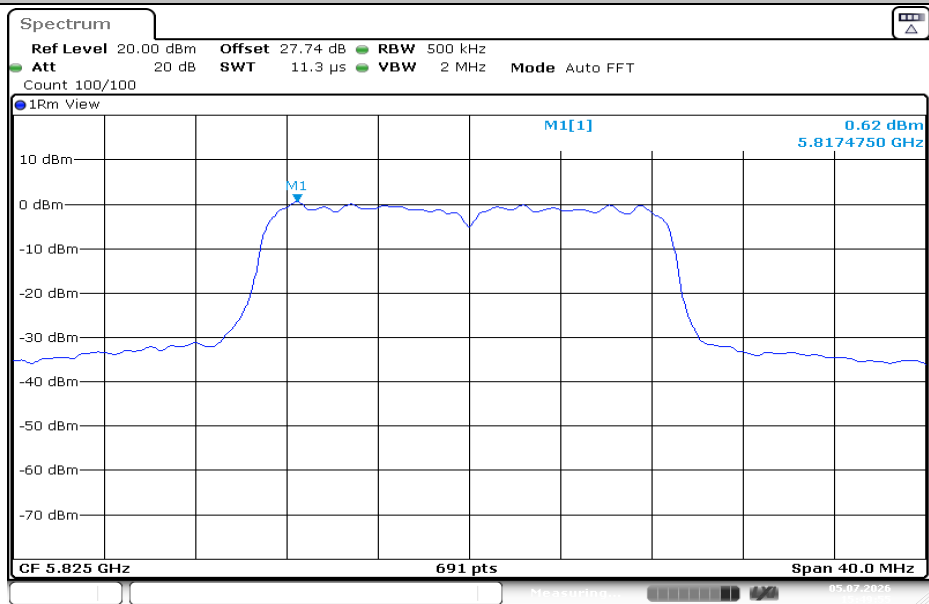
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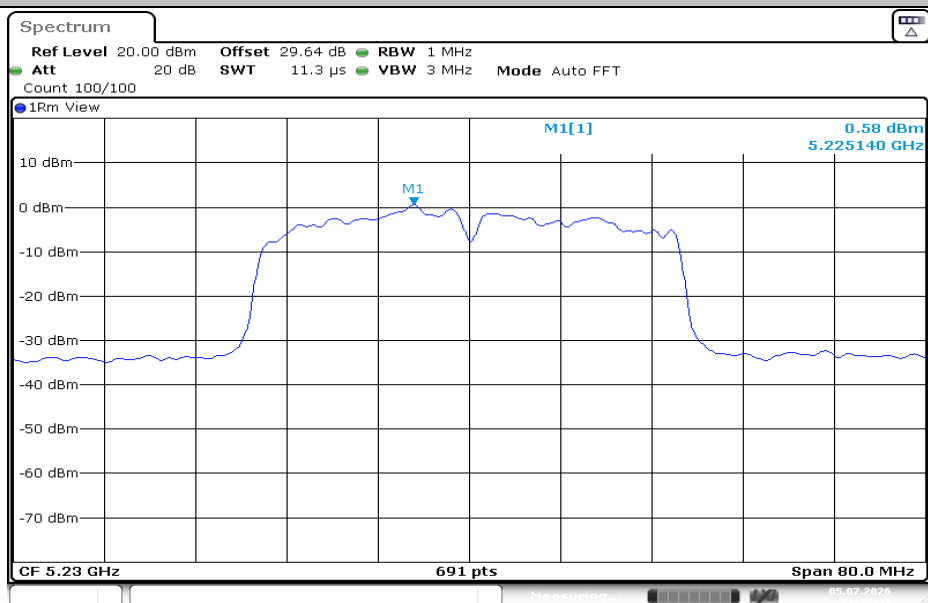
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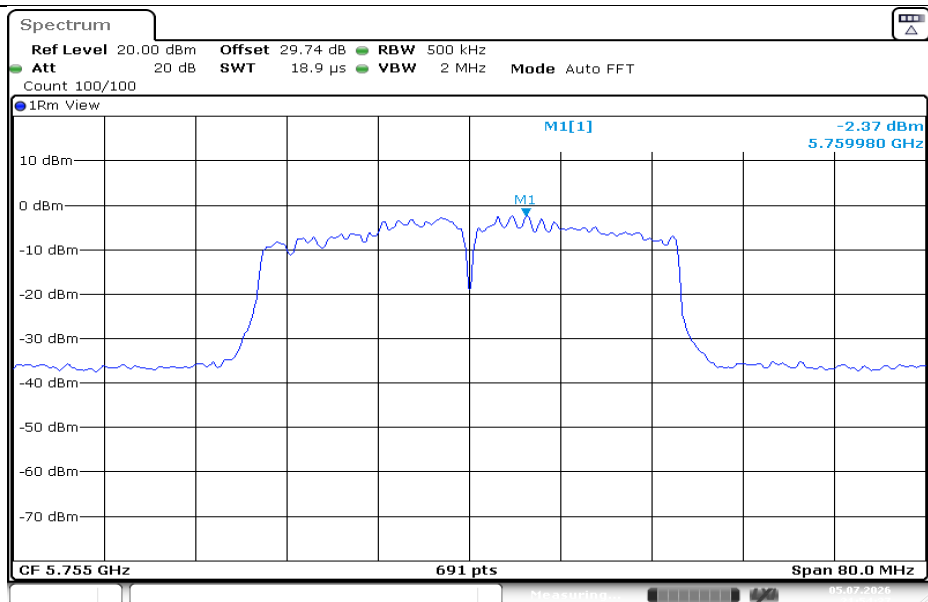
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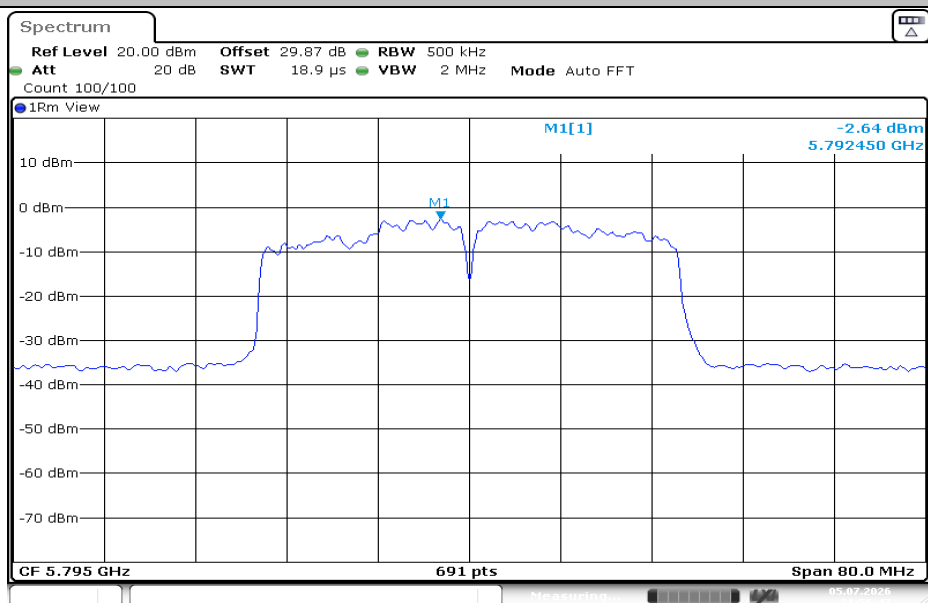
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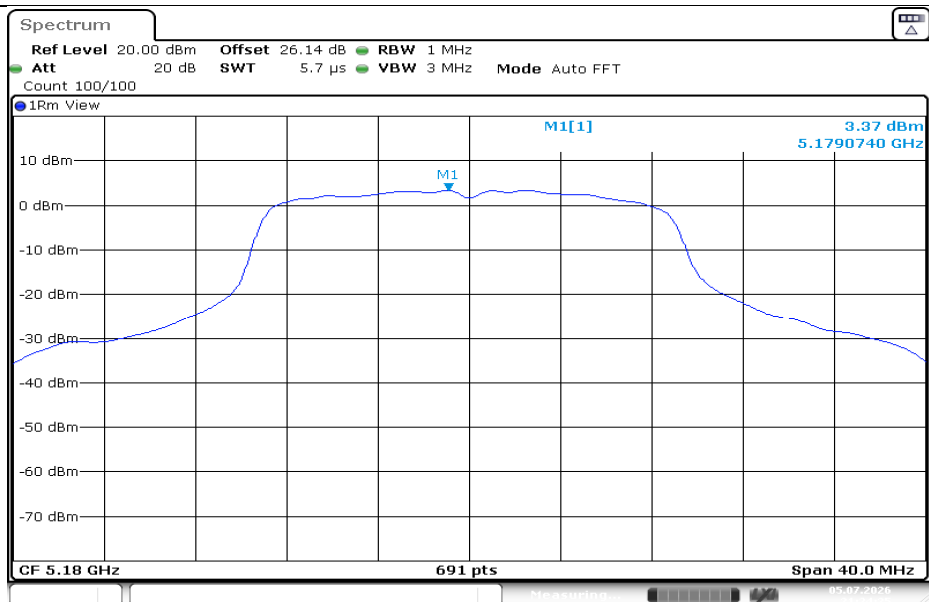
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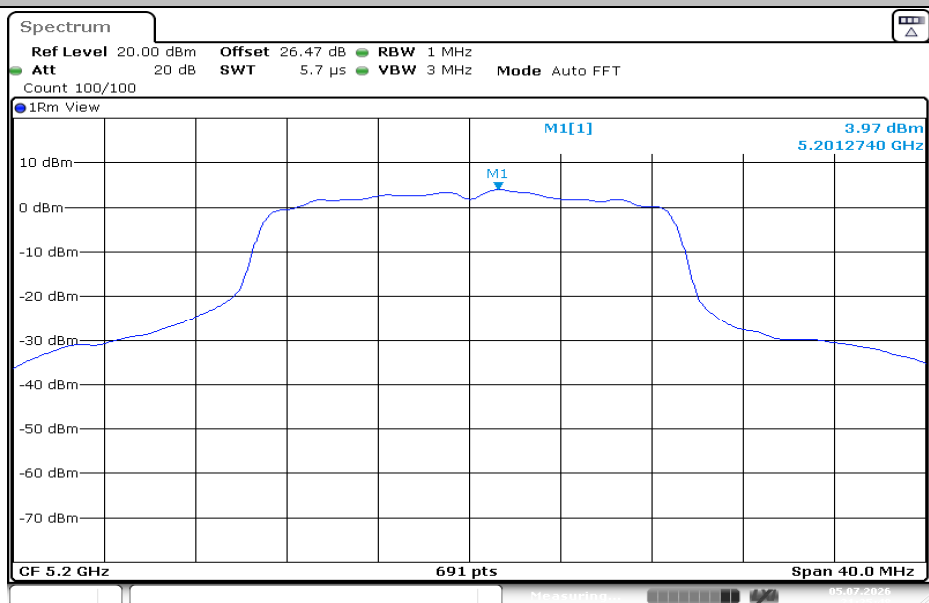
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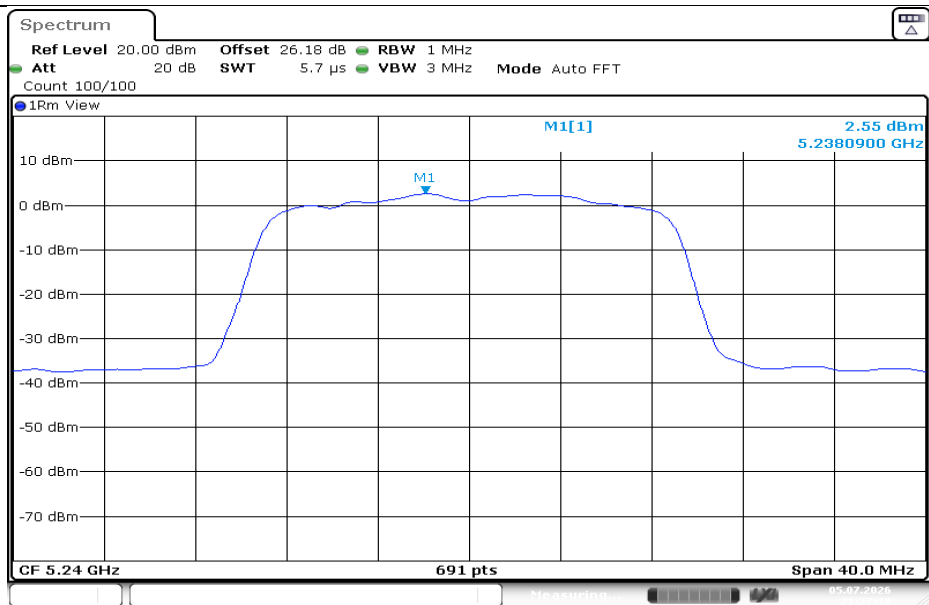
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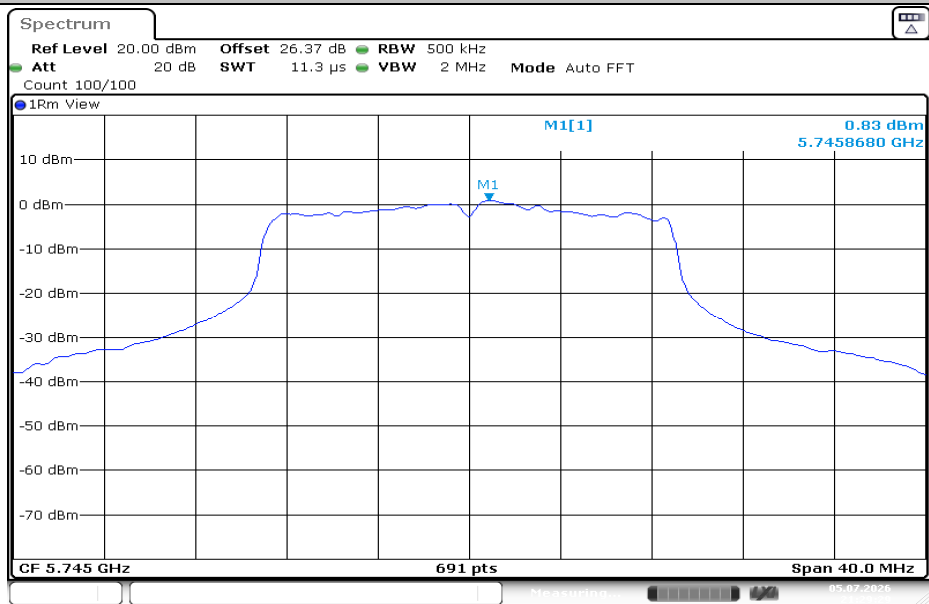
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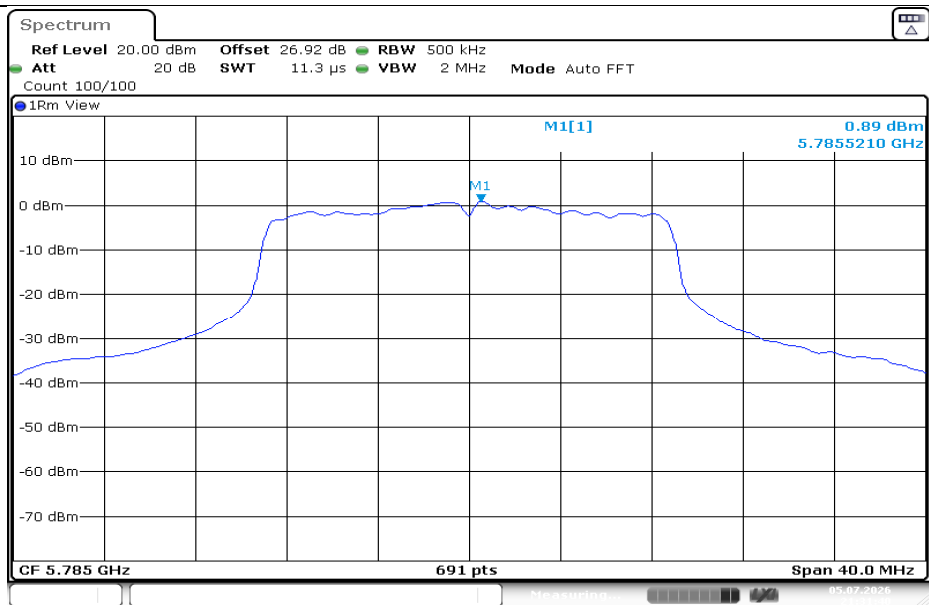
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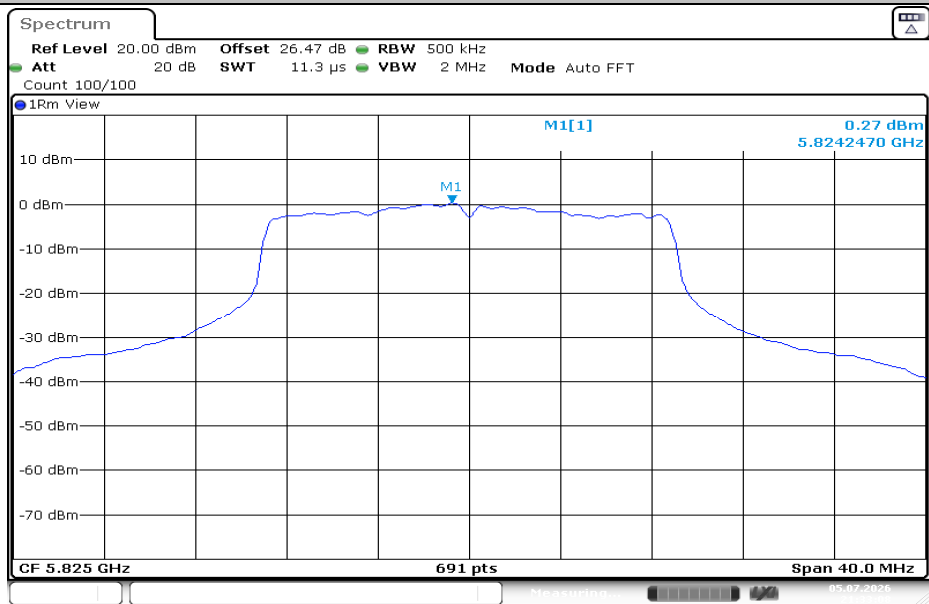
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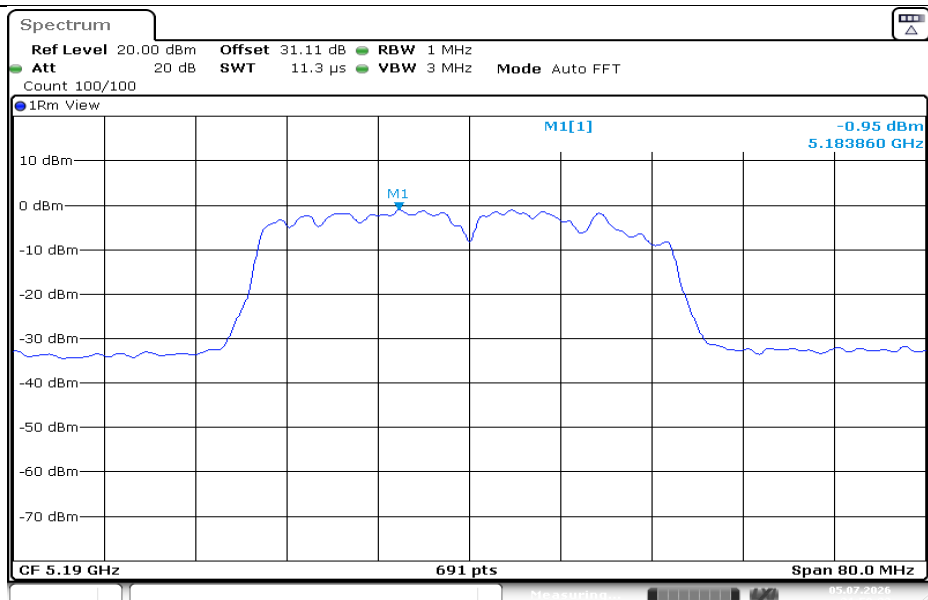
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11AC20SISO-Ant1-5785-PASS



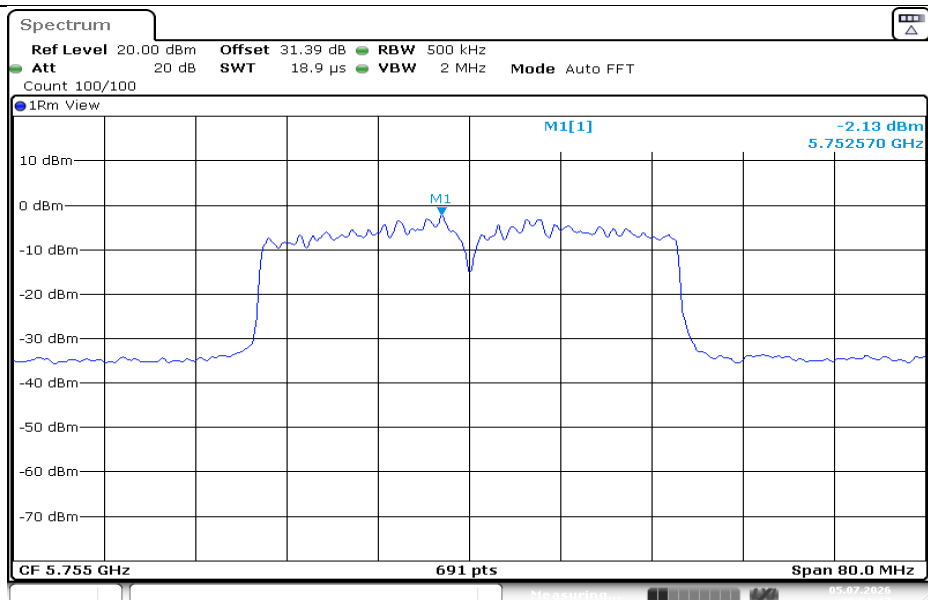
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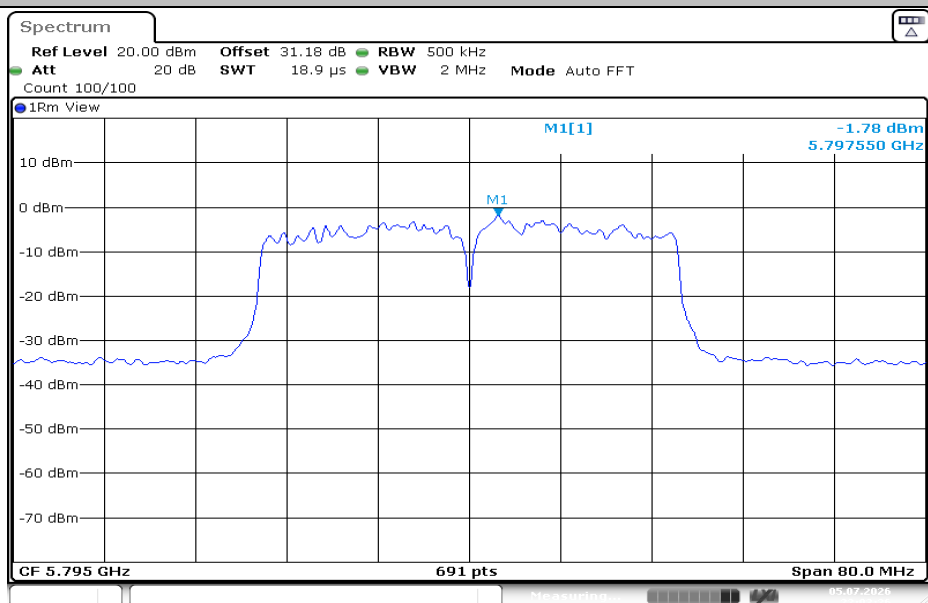
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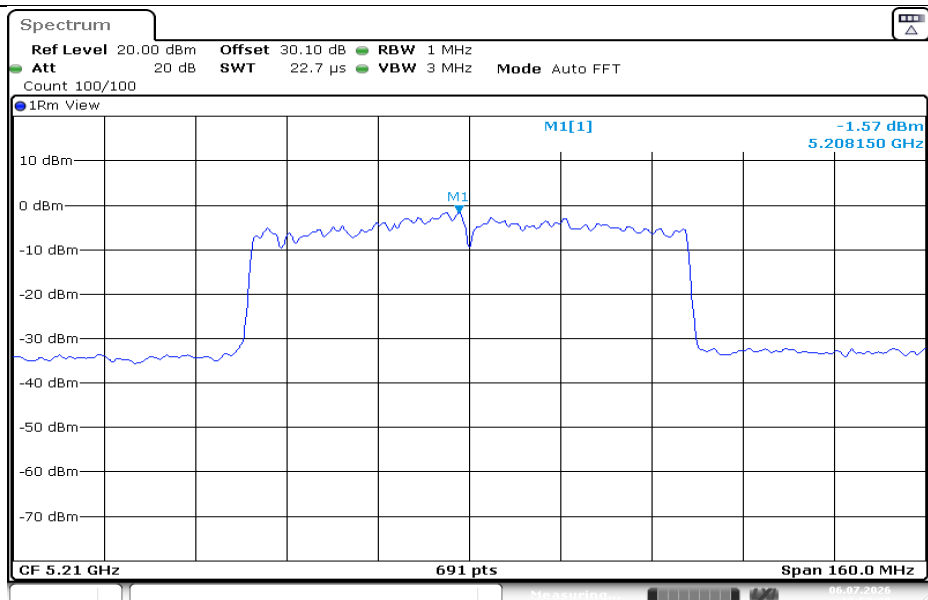
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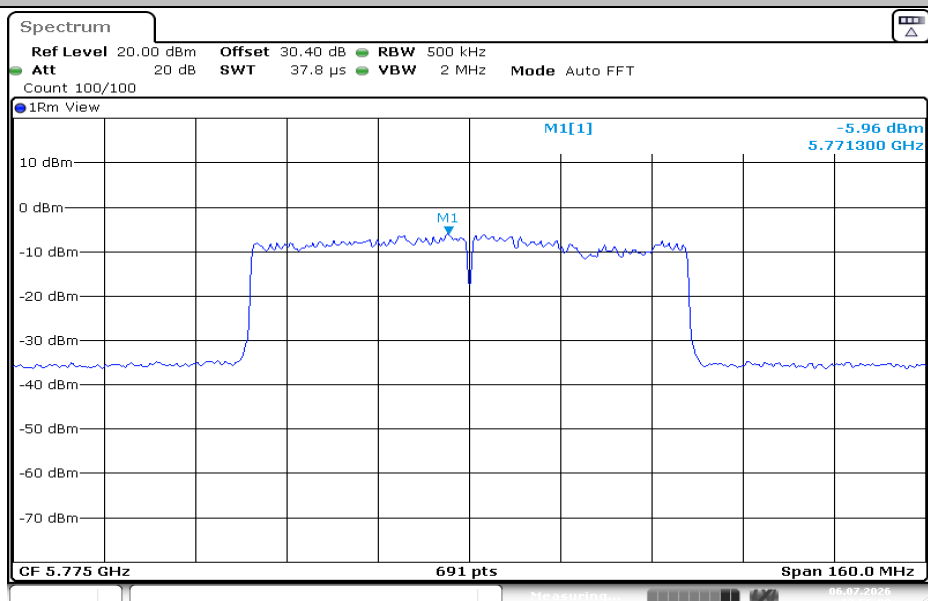
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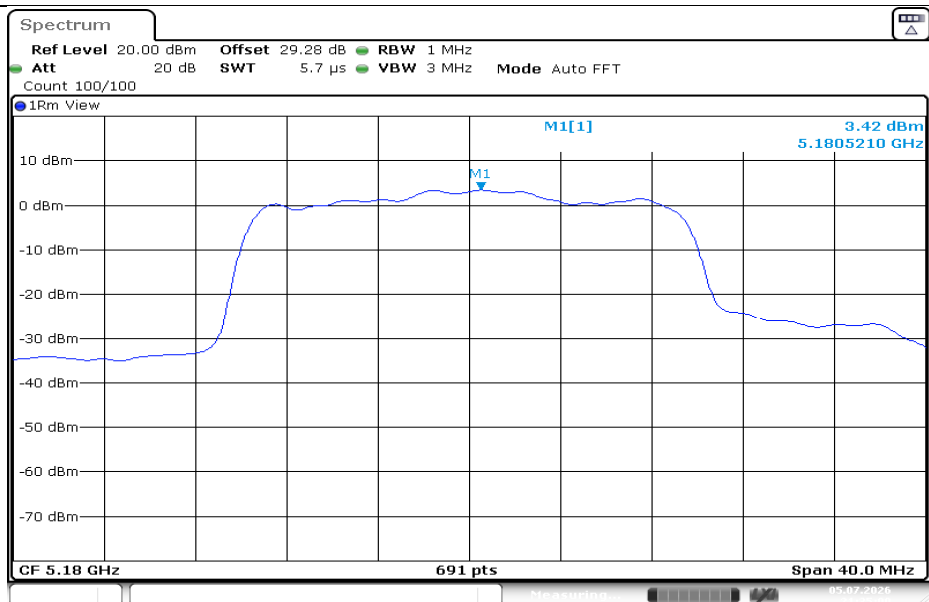
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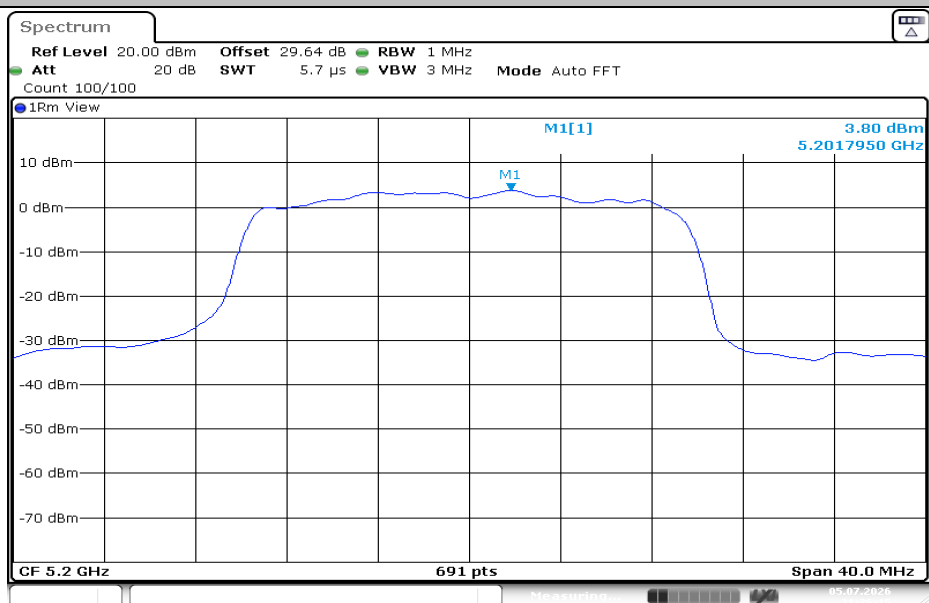
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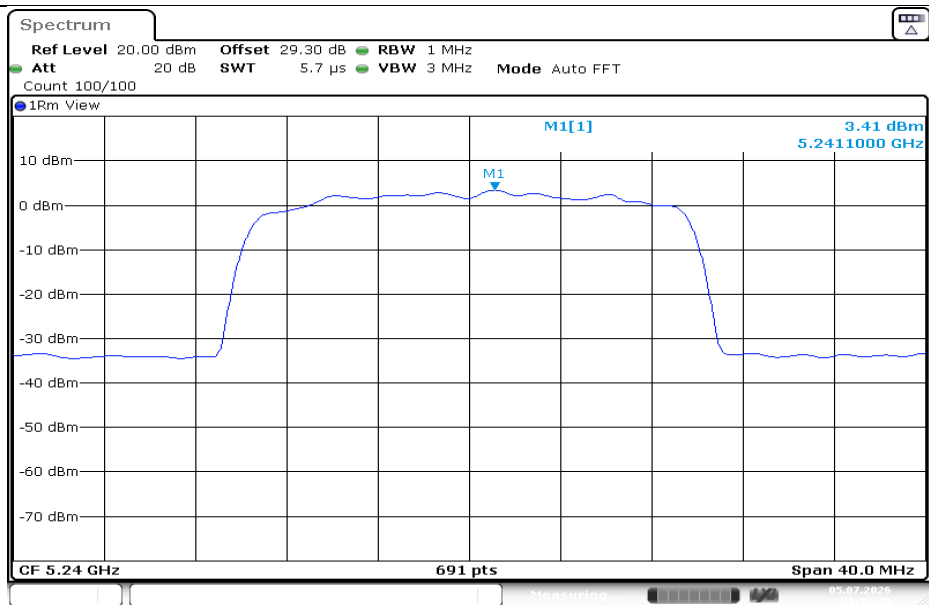
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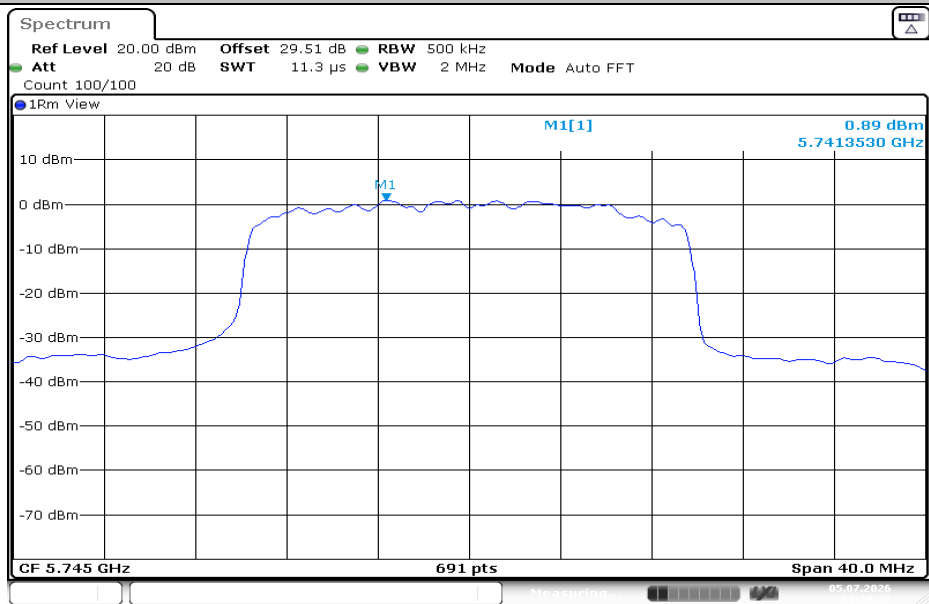
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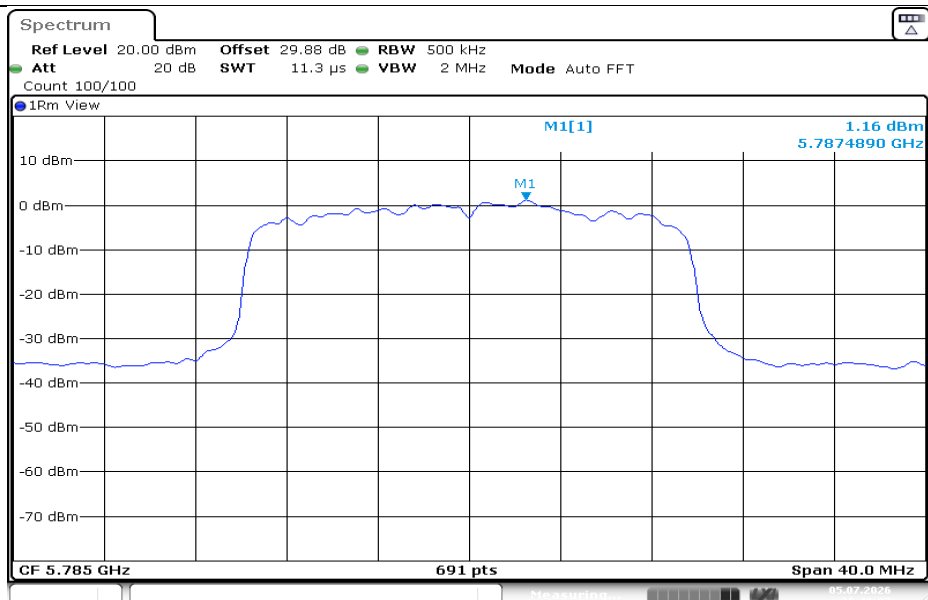
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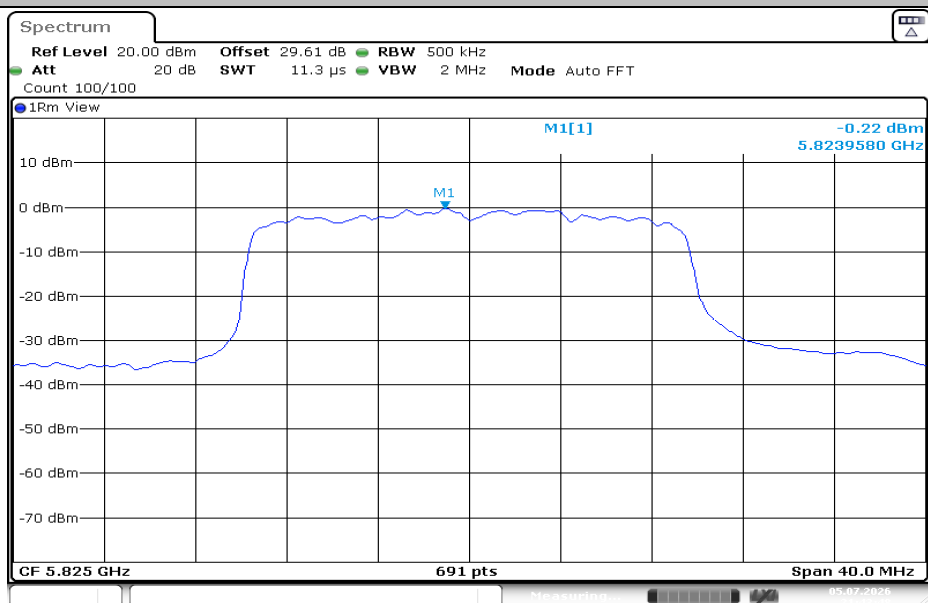
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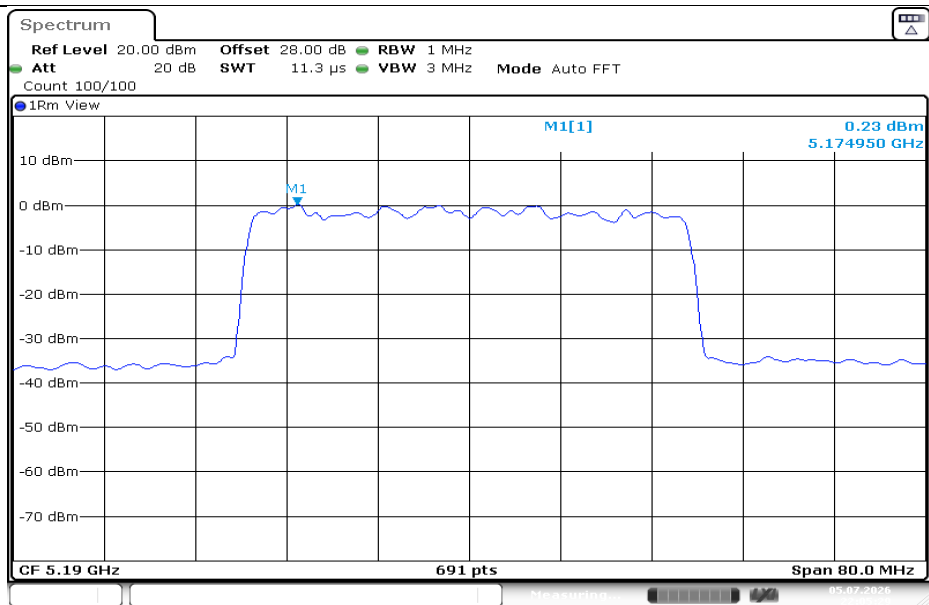
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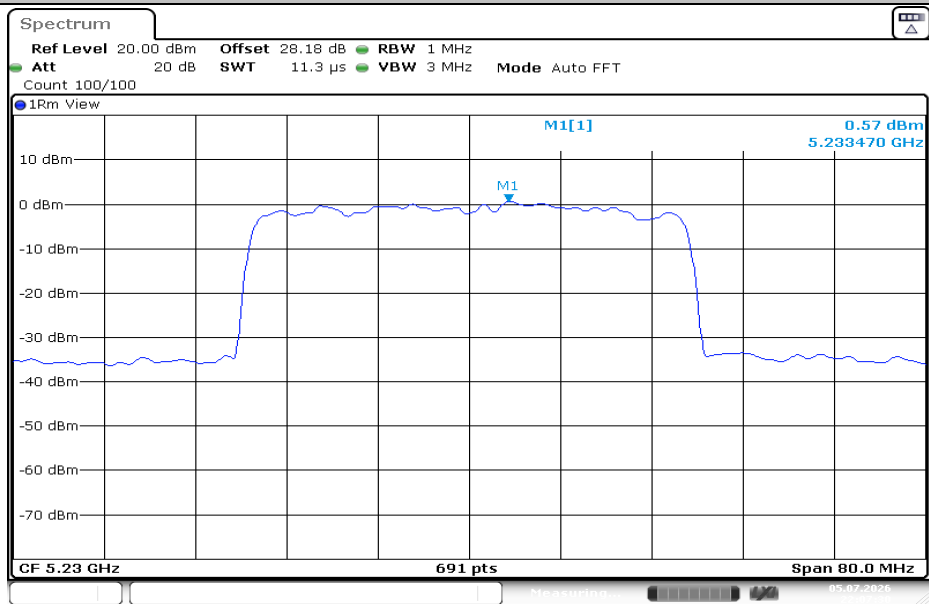
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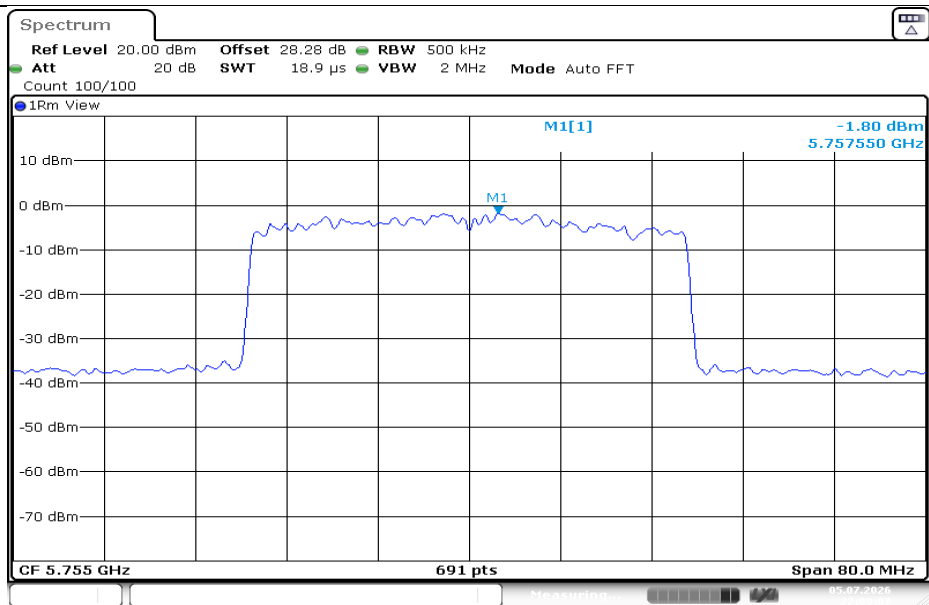
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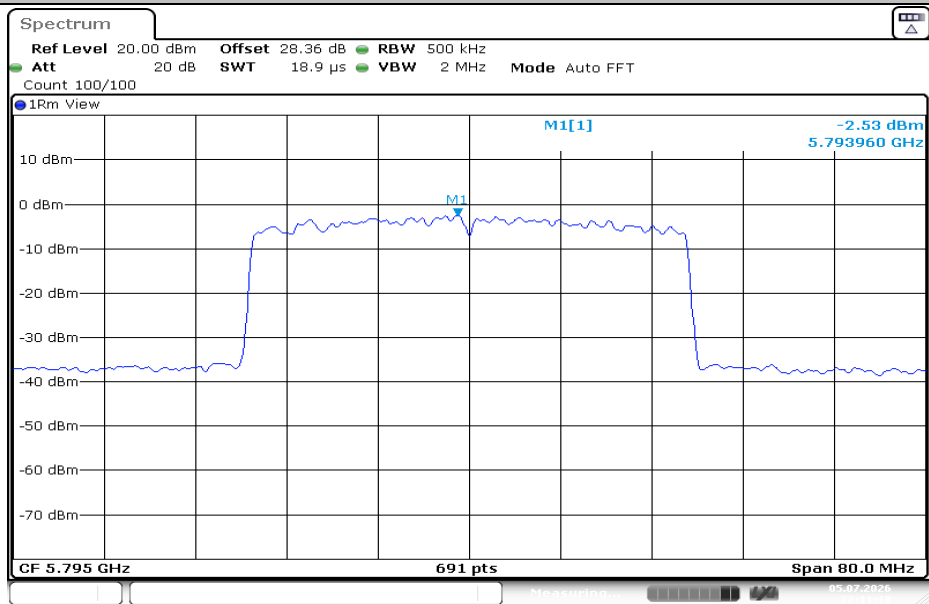
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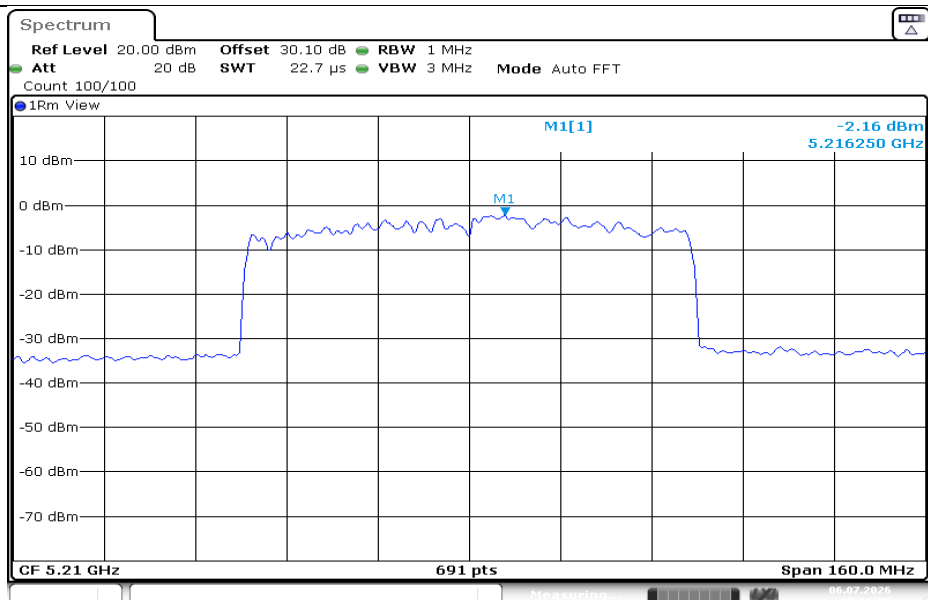
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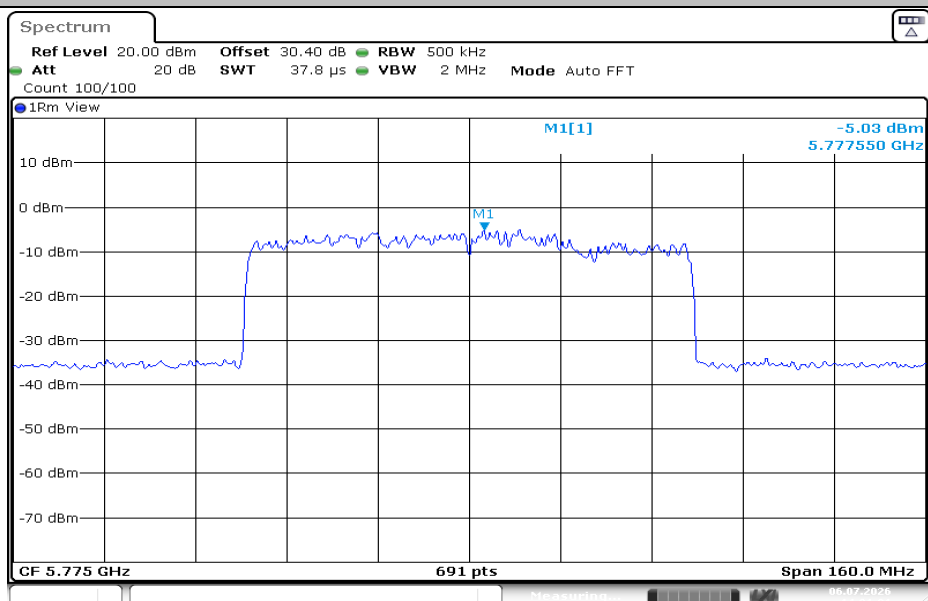
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11AX40SISO-Ant1-5795-PASS



11AX80SISO-Ant1-5210-PASS



11AX80SISO-Ant1-5775-PASS

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

(END OF REPORT)