



TEST REPORT

REPORT NUMBER: I23W00008-WIFI 5.8G RF

ON

Type of Equipment: Multimedia Control System

Type of Designation: IN9.0-OS

Brand Name:



Manufacturer:

NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD.

FCC ID:

2A7V5-IN90-OS-1

ACCORDING TO

FCC Part15

Chongqing Academy of Information and Communications Technology

Month date, year

Mar 23, 2023

Signature

Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: I23W00008-WIFI 5.8G RF

Revision Version

Report Number	Revision	Date	Memo
I23W00008-WIFI 5.8G RF	00	2023-03-23	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC/IC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	25-75%

1.3. Project data

Testing Start Date:	2023-01-05
Testing End Date:	2023-03-01

1.4. Signature



2023-03-23

Dong Junxin
(Prepared this test report)

Date

2023-03-23

Li Xu
(Reviewed this test report)

Date

2023-03-23

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD.
Address /Post:	No. 668, Caihong Road, Zhangjiagang Economic and Technological Development Zone, Suzhou , Jiangsu, P.R. China
City:	Jiangsu
Country:	China
Telephone:	0512-80616208
Fax:	N/A
Email:	douwenjuan@noboauto.com
Contact Person:	Wenjuan Dou

2.2. Manufacturer Information




Company Name:	NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD.
Address /Post:	No. 668, Caihong Road, Zhangjiagang Economic and Technological Development Zone, Suzhou , Jiangsu, P.R. China
City:	Jiangsu
Country:	China
Telephone:	0512-80616208
Fax:	N/A
Email:	douwenjuan@noboauto.com
Contact Person:	Wenjuan Dou

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Multimedia Control System
Model name	IN9.0-OS
Brand name	   HAVAL NOBO®
GSM Frequency Band	--
WCDMA Frequency Band	--
LTE Frequency Band	--
BLUETOOTH Frequency Band	2402MHz-2480MHz
WLAN Frequency Band	Wi-Fi 2.4G:802.11b/g/n, Wi-Fi 5G U-NII-1/Wi-Fi 5G U-NII-3:802.11a/n/ac
Type of WLAN modulation	OFDM
Extreme Temperature	-40-85°C
Nominal Voltage	12V
Extreme High Voltage	18V
Extreme Low Voltage	7V

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S1	NA	AA	AA	2023-03-14
S2	NA	AA	AA	2023-03-14

*EUT ID: is used to identify the test sample in the lab internally.

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
WLAN	5G	UNII 3: 5745MHz-5825MHz		--

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3.3. Outline of Equipment under Test

3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	0.5dB

*AE ID: is used to identify the test sample in the lab internally.

dB*: is provided customer.

3.5. EUT Test RF Confagle Configuration

EUT uses adb tool to control emission measurement, Change power level, channel, rate and HT.

```

C:\Users\Administrator\Desktop\ADB\adb\cmd.exe - adb shell
1|sa8155_v35:/ # myftm -J -M 1 -r 15 -f 5200 -p 10 -a 1 -t 3
myftm -J -M 1 -r 15 -f 5200 -p 10 -a 1 -t 3
Version Flags: 1.0
using TLV2.0
WlanATSetWlanMode using athtestcmdlib
WlanATSetRate using athtestcmdlib
WlanATSetWifiFreq using athtestcmdlib
WlanATSetWifiTxPower using athtestcmdlib
WlanATSetWifiAntenna using athtestcmdlib

-----qca6174SetAntenna() gCmd.chain = 1
WlanATSetWifiTX using athtestcmdlib
-----qca6174TxCommand():3001 gCmd.chain = 1
rateIndexToArrayMapping() 12 HT20 MCS0 6.5 Mb Is11AcRate 0
dataRate 12 rateIndex 16
qca6174TxCommand - input pwr 10.00 output pwr 20
qca6174TxCommand() TLV2_CMD_TX 3
qca6174TxCommand() TLV2_CMD_TX DPD flag is not Enabled PARM_FLAGS 24
qca6174TxCommand() TLV2_CMD_TX/CMD_TXSTATUS 3
05 00 00 00 02 00 00 00 00 00 00 84 01 00 00
6a 7c 00 00 00 00 00 00 00 00 00 0e 00 00 00
2f 5b 05 2f 15 00 00 00 a6 00 00 00 14 52 e6 44
00 00 00 00 35 00 00 00 ef 46 5a 14 03 00 00 00
36 00 00 00 50 3e bd 54 50 14 00 00 38 00 00 00
52 1c e2 02 01 00 00 00 37 00 00 00 bc 33 5c 52
01 00 00 00 2d 00 00 00 28 b7 b7 05 00 00 00 00
42 00 00 00 f8 7b b5 29 18 00 00 00 3e 00 00 00
9c 6d 0a 50 01 00 00 00 3f 00 00 00 42 7b 87 50
00 00 00 00 40 00 00 00 9f 20 8e 02 00 00 00 00
46 00 00 00 83 0e 95 2f 00 00 00 00 49 00 00 00
  
```


4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2020
ANSI 63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
KDB 789033	Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2017
KDB 905462	COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION	2016

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2023-06-29
2	Spectrum analyzer	FSW26	104280	--	--	R&S	2023-06-29
3	DC Power Supply	3303D	801128	--	--	Topward	2023-06-29
4	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2023-06-29

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	2023-06-29
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2024-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2024-12-14
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2024-09-06
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2024-09-06
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	2023-06-29
7	Amplifier2	SCU-18F	180093	--	--	R&S	2023-06-29

5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2023-06-29

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5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Fully-Anechoic Chamber	FAC5	--	TDK	2024-09-22

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMI Test Software	EMC32 V9.26.01	--	R&S

6. Test Results

6.1 Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
15.407(a)	Maximum Output Power	Pass
15.407(a)	Power Spectral Density	Pass
15.407(e)	6dB Occupied Bandwidth	Pass
15.407(e)	99% Occupied Bandwidth	Pass
15.407(b)	Band edge compliance	Pass
15.407	Transmitter Spurious Emission-Conducted	Pass
15.407,15.205,15.209	Transmitter Spurious Emission - Radiated	Pass
15.207	AC Powerline Conducted Emission	N/A

Note:
The IN9.0-OS, manufactured by NOBO AUTOMOTIVE TECHNOLOGIES CO., LTD. is a new product for testing.

6.2 99% Occupied Bandwidth

Specifications:	FCC Part 15.407(e)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit(KHz)
FCC Part 15.407(e)	N/A

Measurement Uncertainty:

Measurement Uncertainty	28kHz
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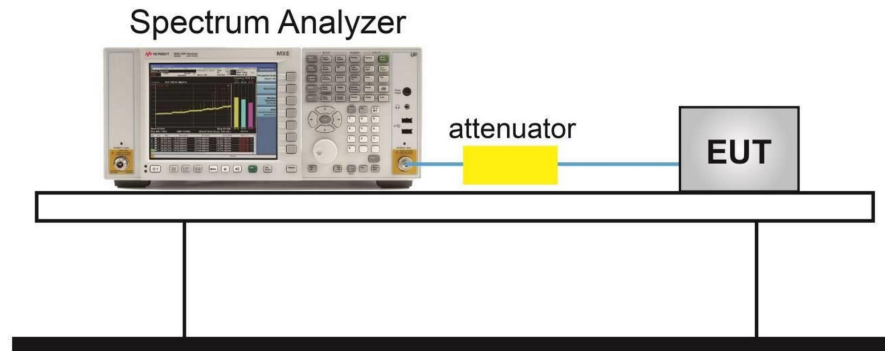
The measurement method is made according to KDB 789033 D

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Test Setup

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Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5745	16.981	5736.5221	5753.5026
	Ant2	5745	16.78	5736.6310	5753.4111
	Ant1	5785	17.04	5776.4680	5793.5085
	Ant2	5785	16.981	5776.4577	5793.4388
	Ant1	5825	17.054	5816.5082	5833.5620
	Ant2	5825	17.01	5816.4657	5833.4762
11N20SISO	Ant1	5745	18.037	5735.9877	5754.0250
	Ant2	5745	17.942	5736.0326	5753.9745
	Ant1	5785	18.054	5775.9982	5794.0518
	Ant2	5785	17.995	5775.9821	5793.9772
	Ant1	5825	18.082	5815.9835	5834.0650
	Ant2	5825	18.041	5815.9465	5833.9872
11N40SISO	Ant1	5755	36.702	5736.7388	5773.4407
	Ant2	5755	36.624	5736.7781	5773.4024
	Ant1	5795	36.664	5776.7780	5813.4416
	Ant2	5795	36.667	5776.6839	5813.3510
11AC20SISO	Ant1	5745	18.054	5735.9685	5754.0228
	Ant2	5745	17.95	5736.0286	5753.9791
	Ant1	5785	18.039	5776.0008	5794.0399
	Ant2	5785	17.975	5775.9817	5793.9565
	Ant1	5825	18.145	5815.9528	5834.0981
	Ant2	5825	18.05	5815.9458	5833.9956
11AC40SISO	Ant1	5755	36.631	5736.7499	5773.3804

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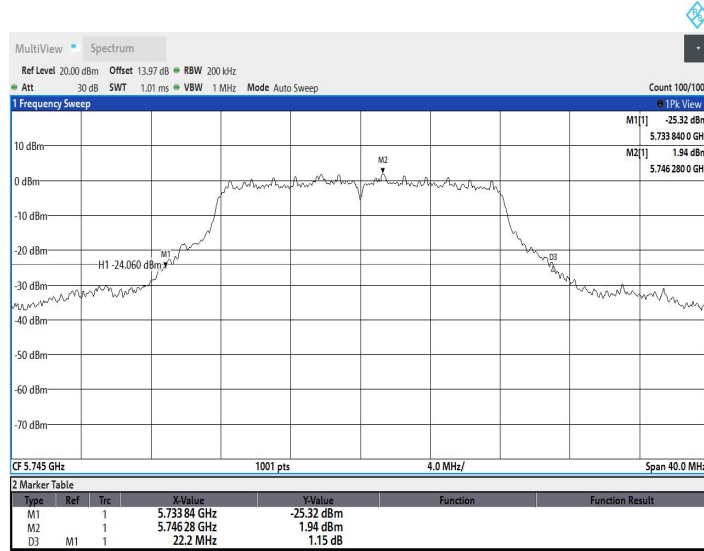
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	Ant1	5795	36.613	5776.7373	5813.3506
	Ant2	5795	36.583	5776.6933	5813.2764
11AC80SISO	Ant1	5775	37.407	5756.3929	5793.7995
	Ant2	5775	37.311	5756.3502	5793.6609

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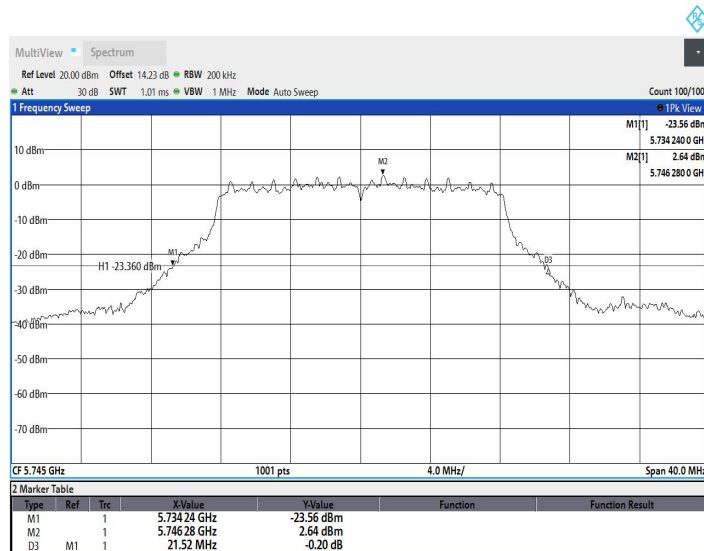
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Test Graphs

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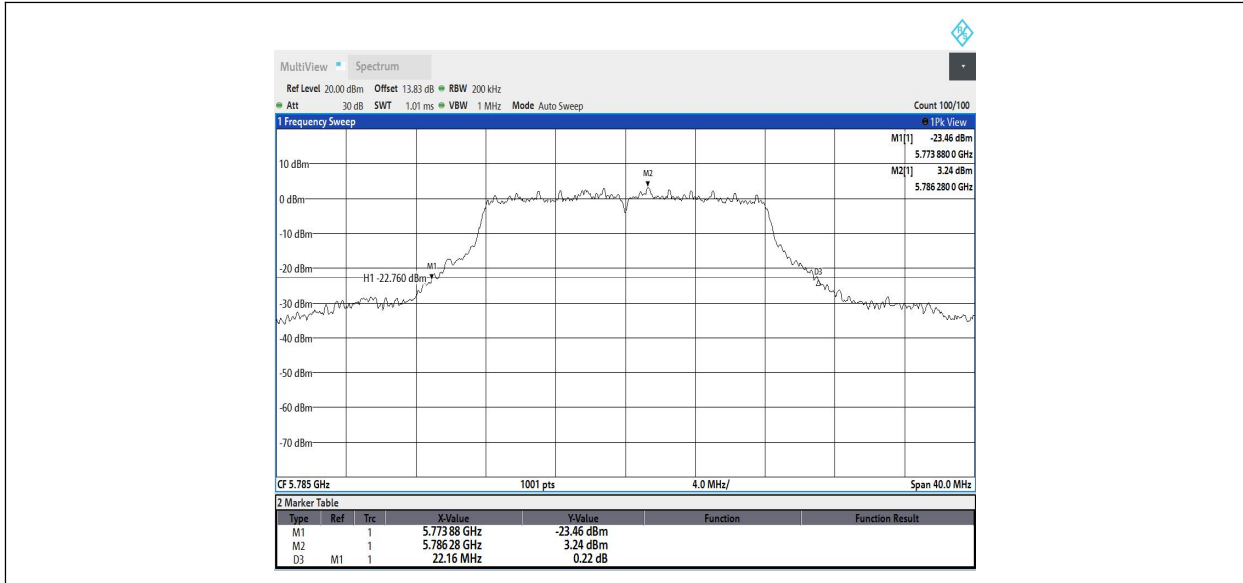
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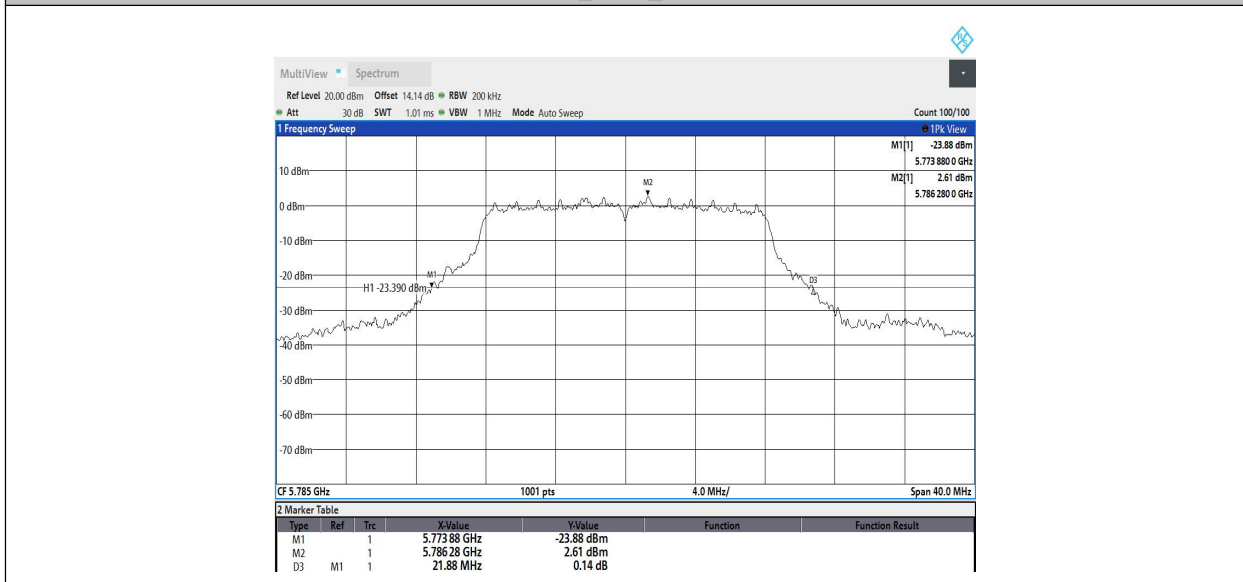
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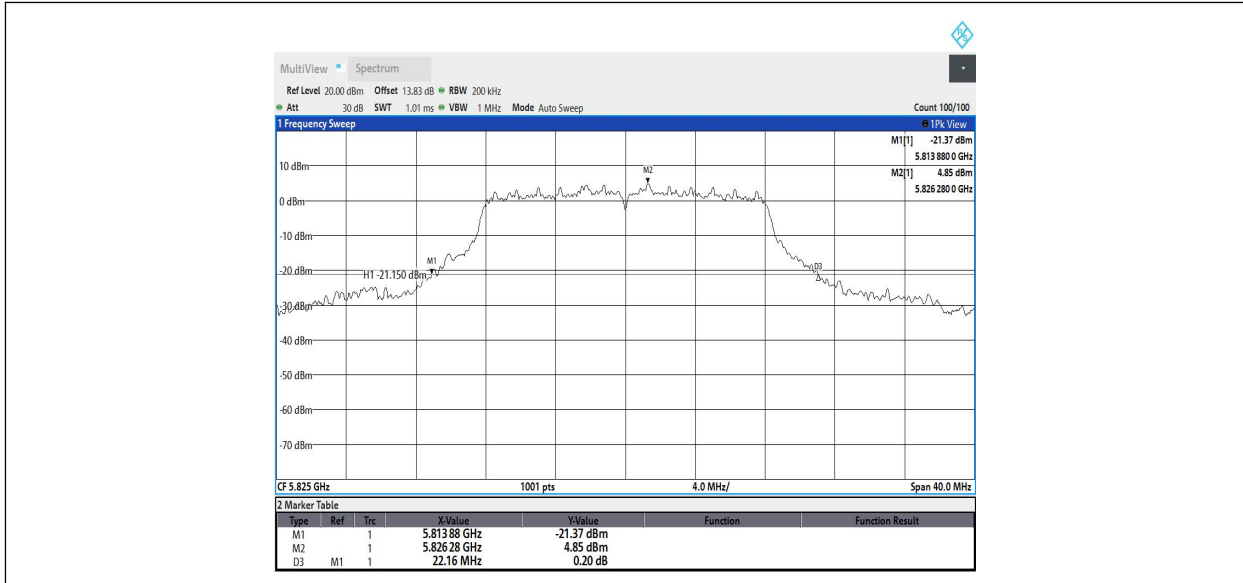
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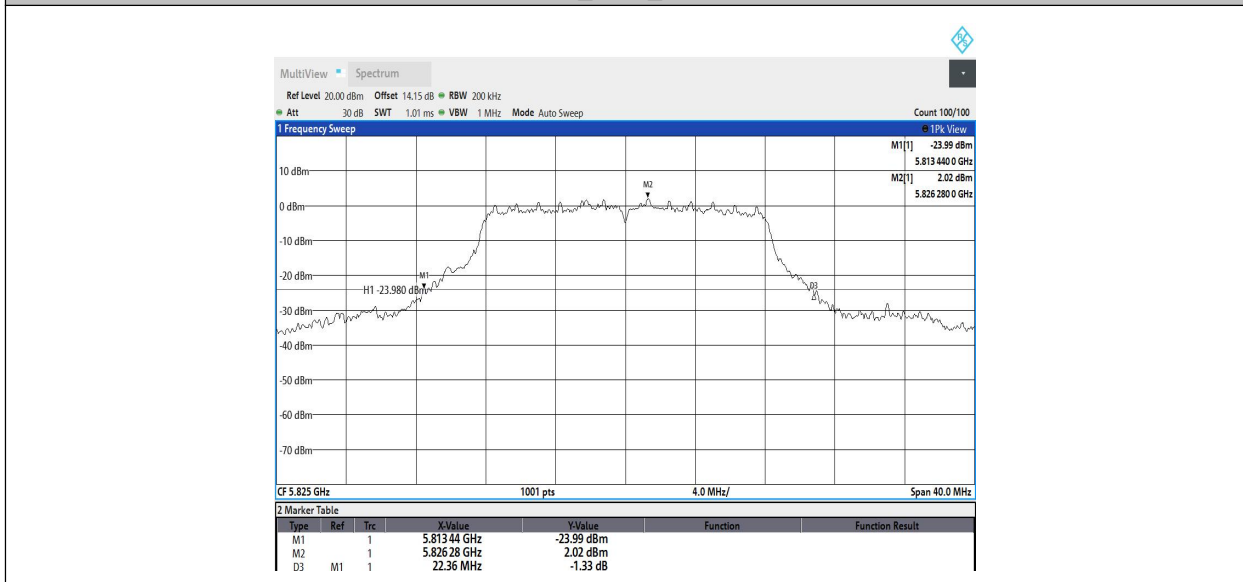
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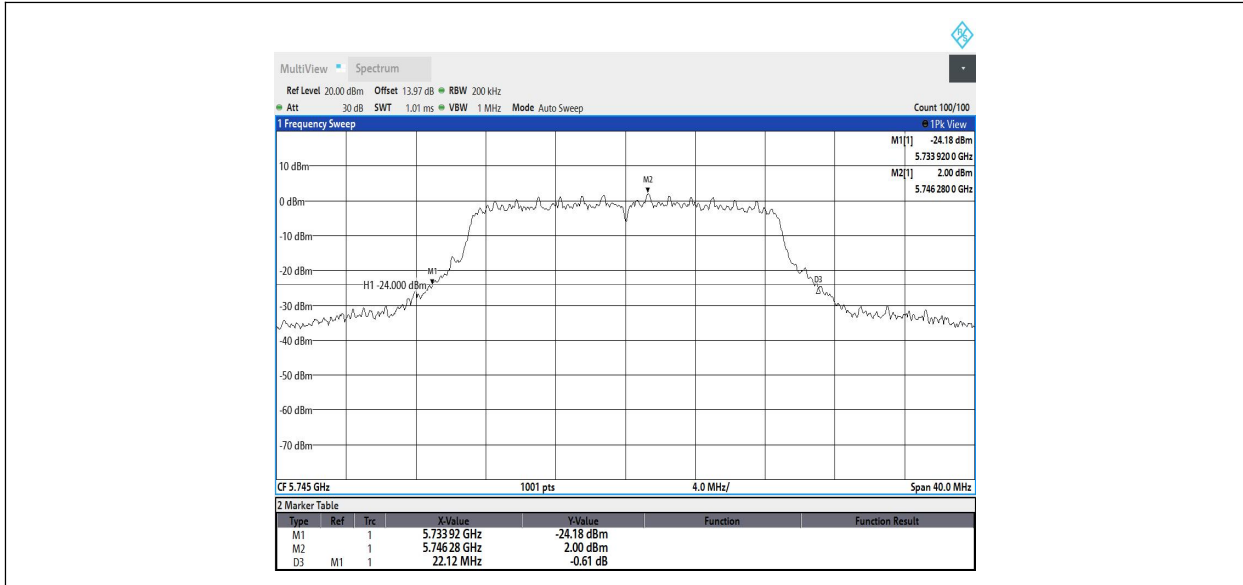
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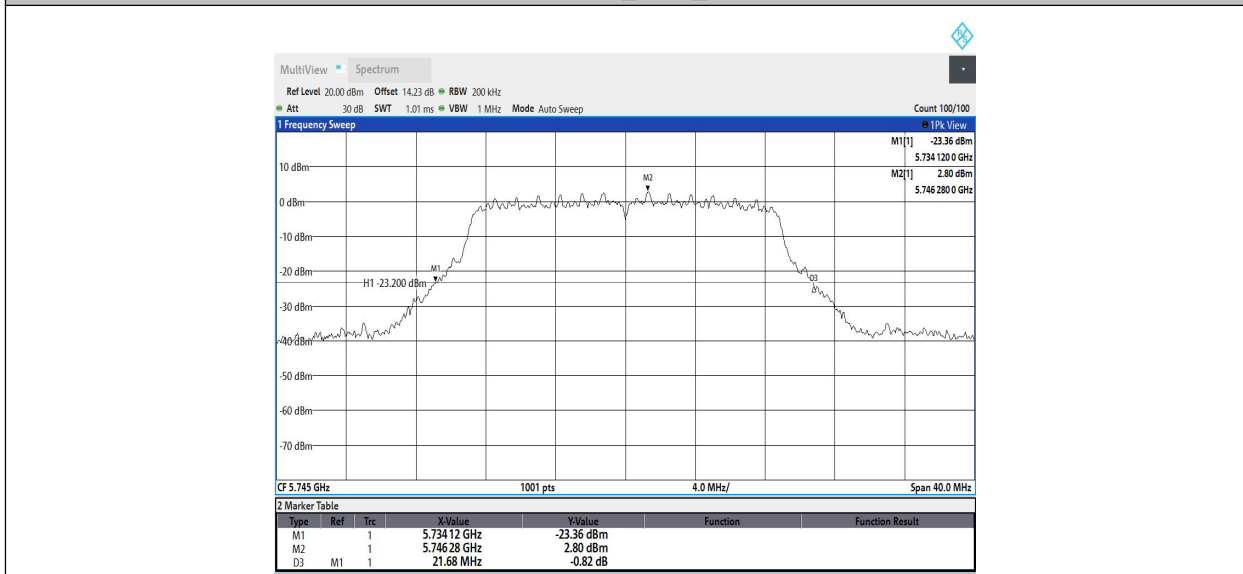
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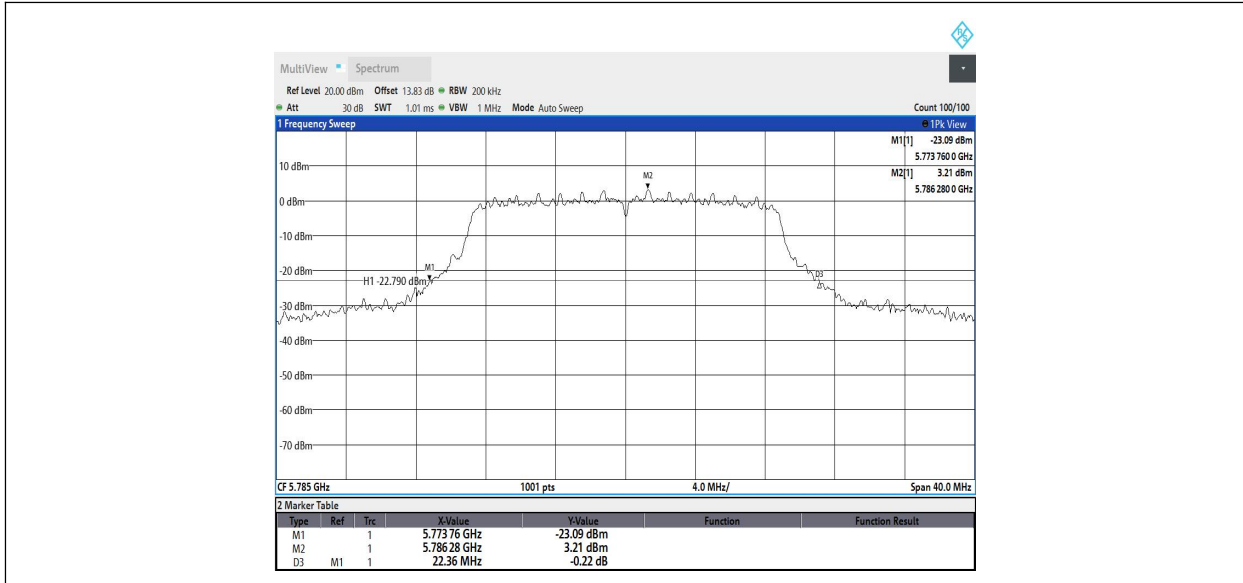
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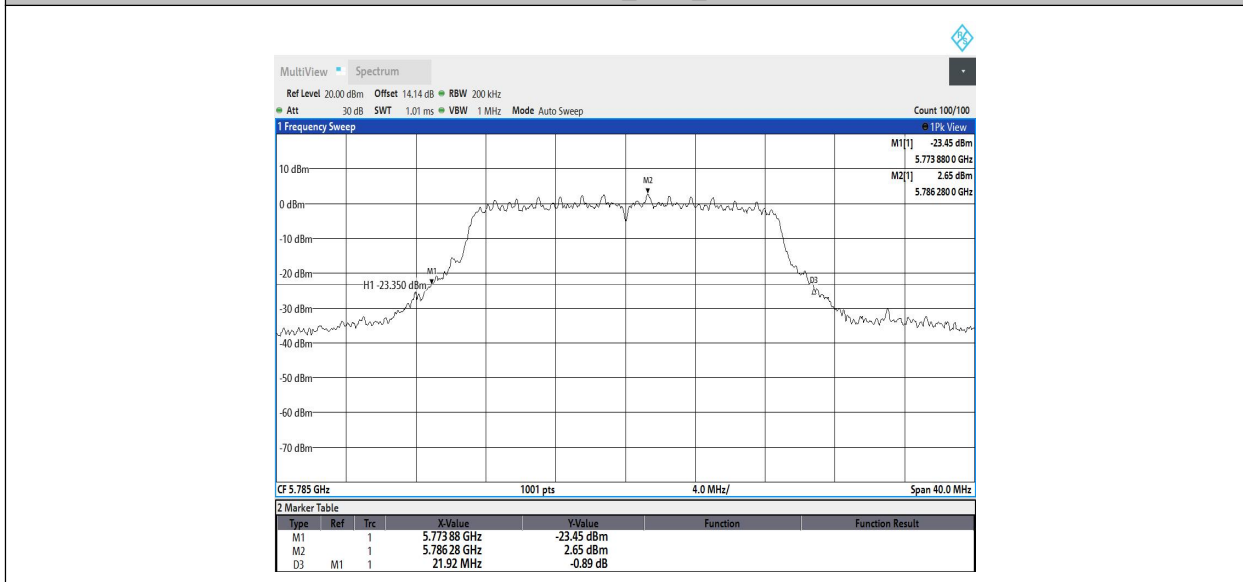
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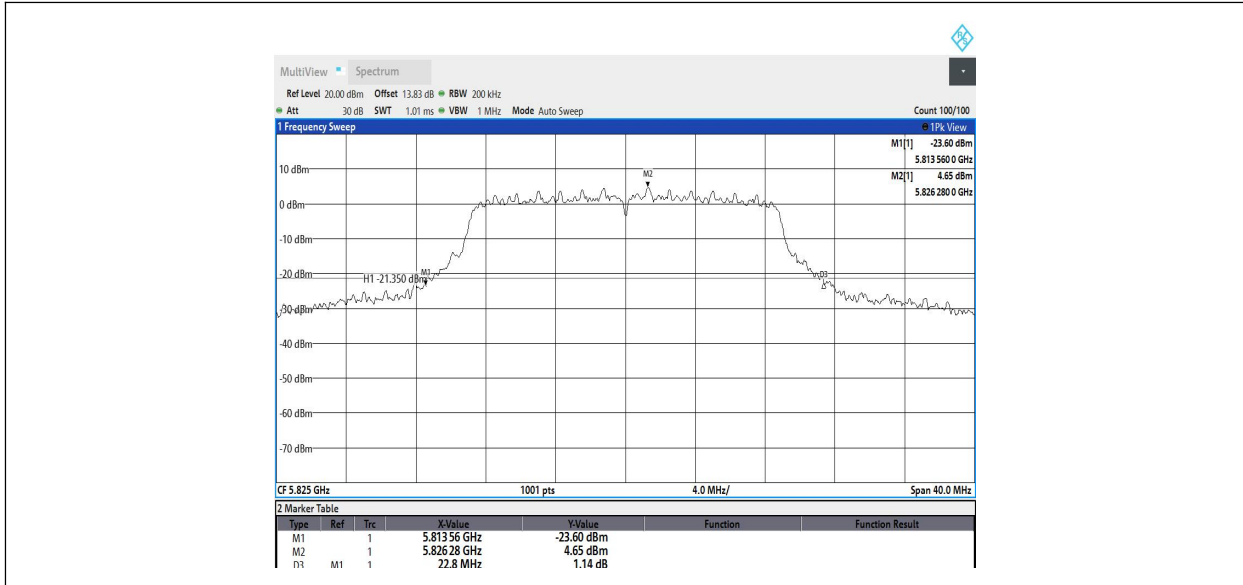
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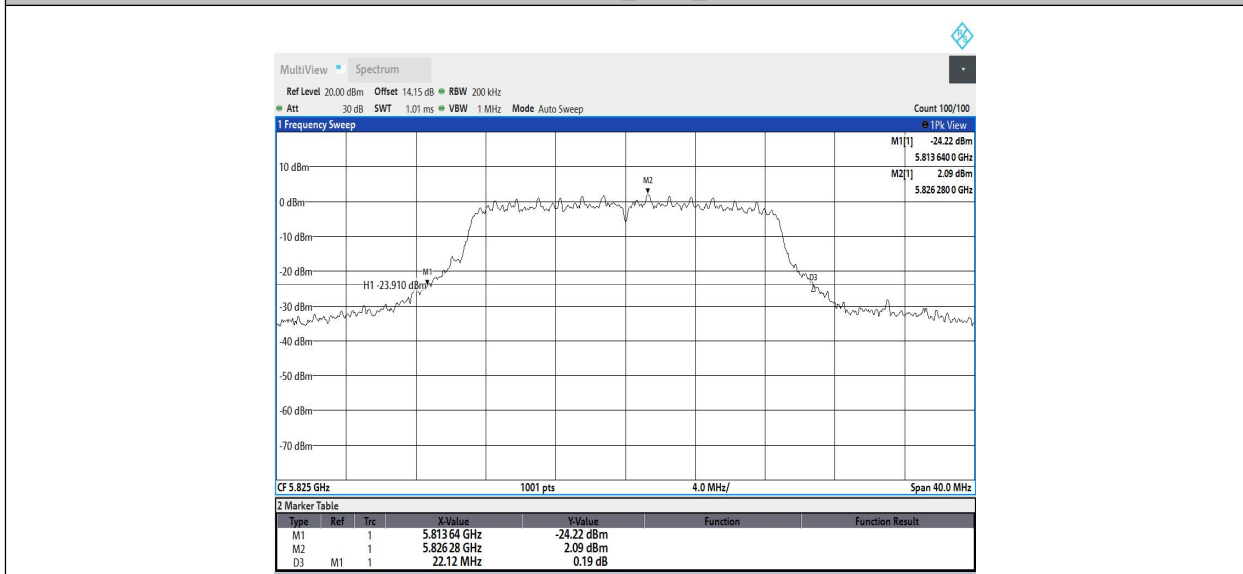
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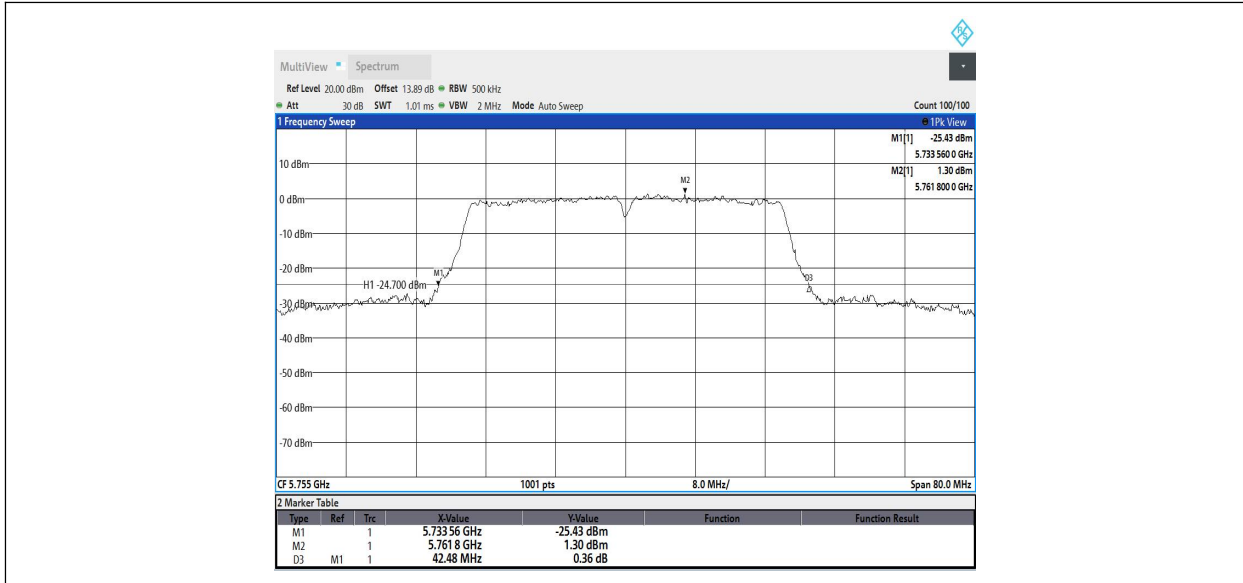
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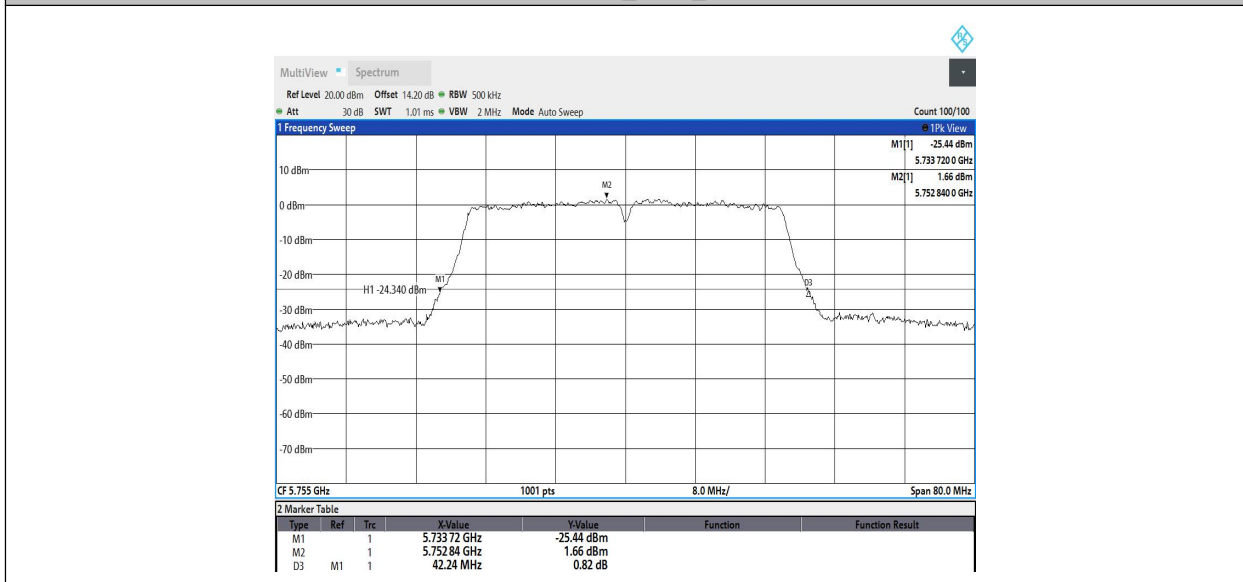
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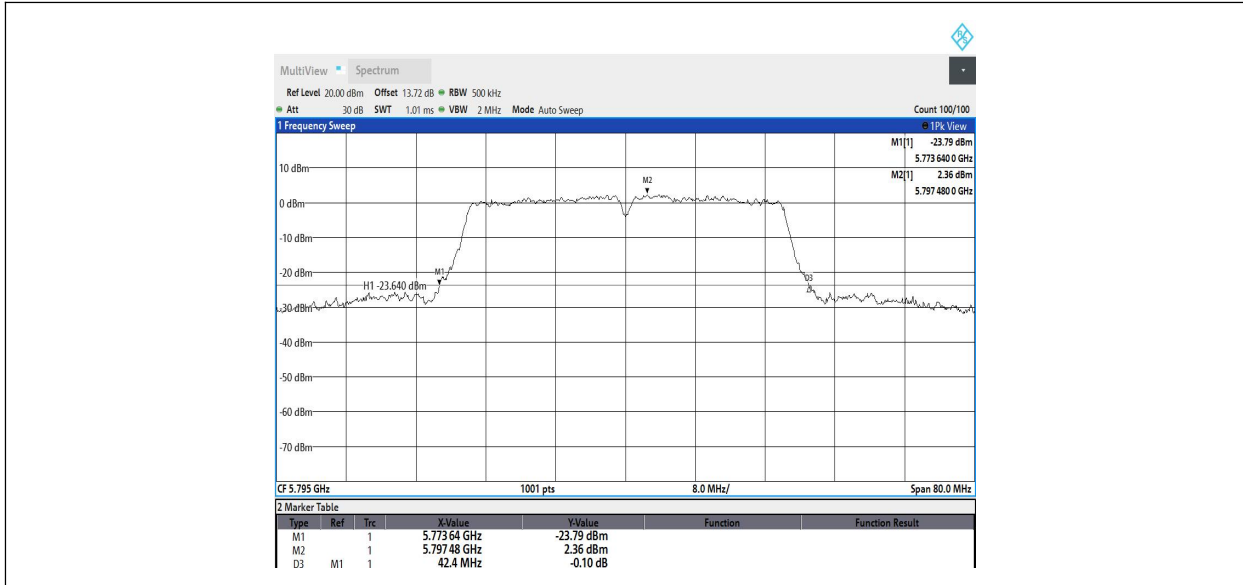
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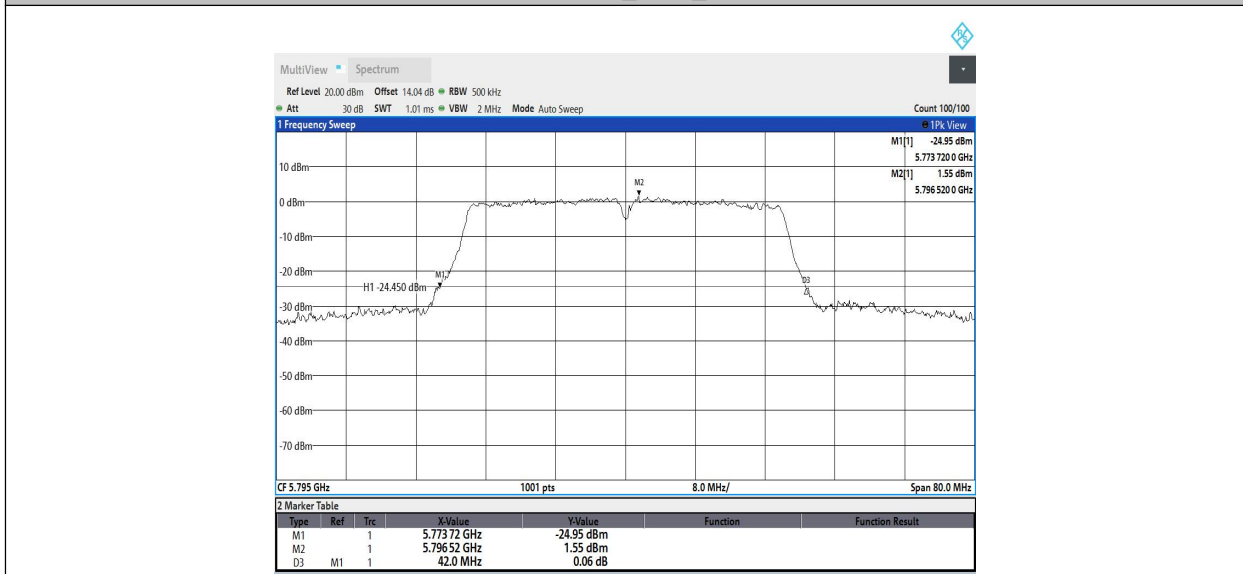
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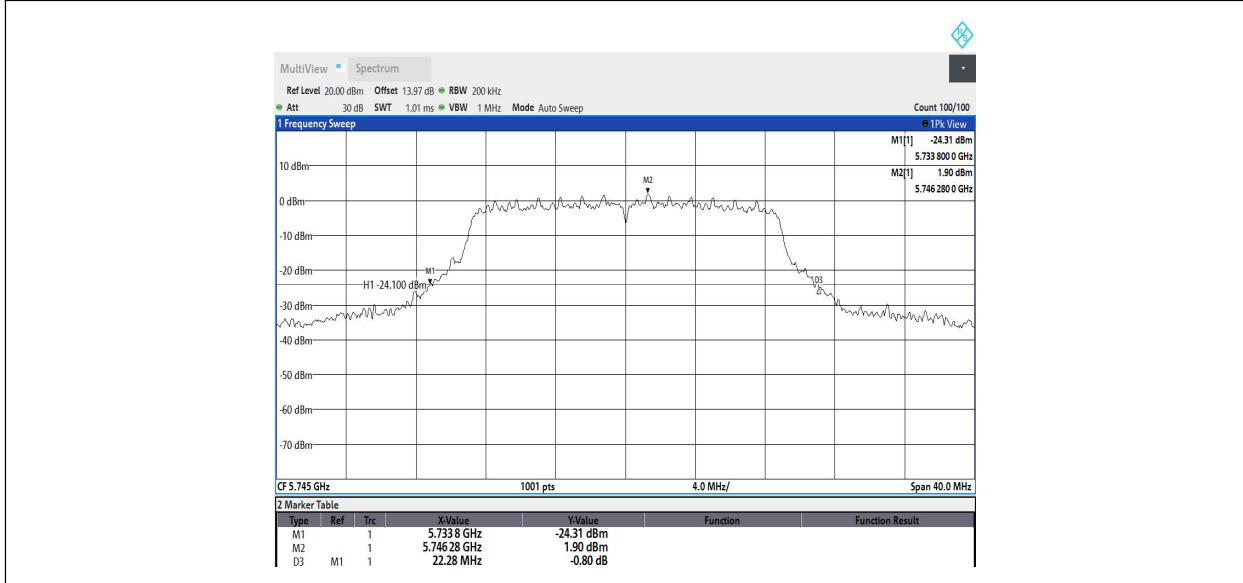
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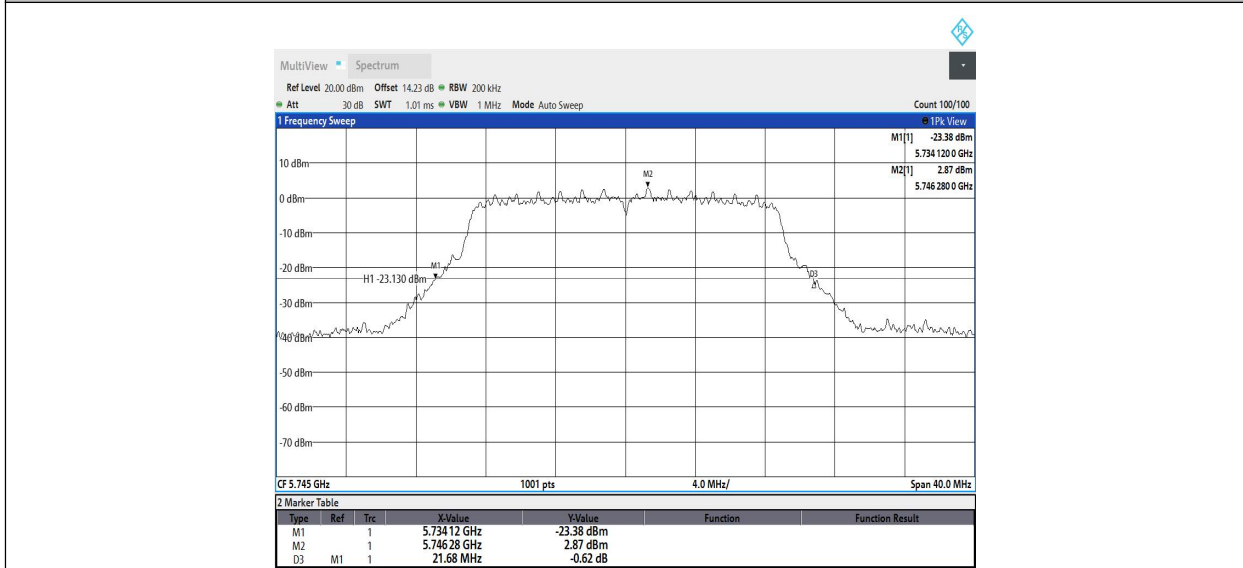
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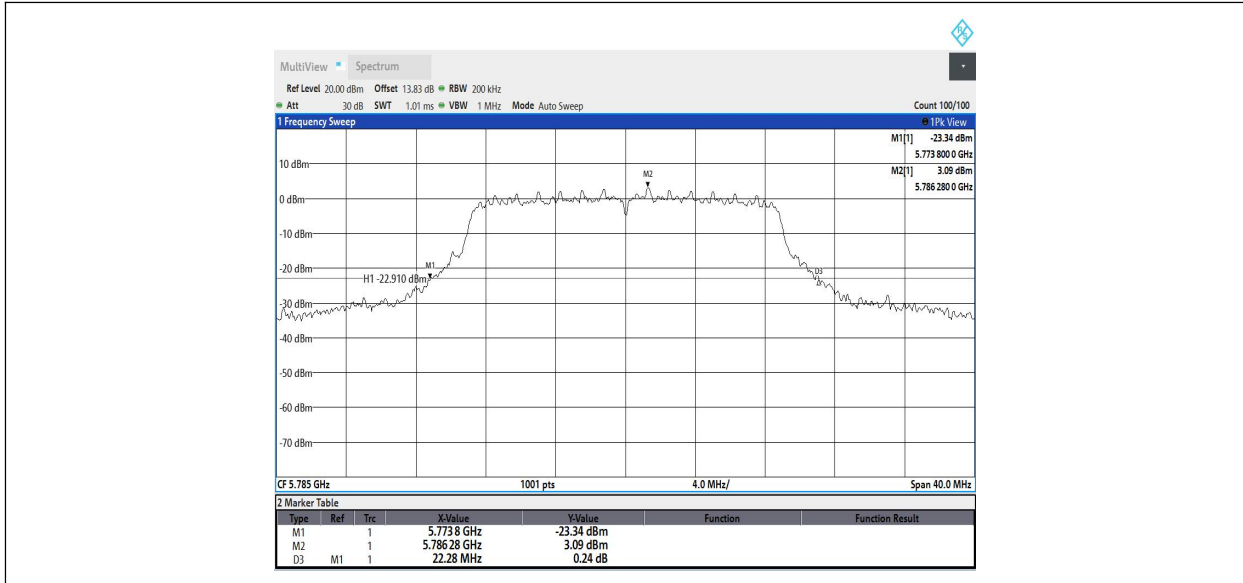
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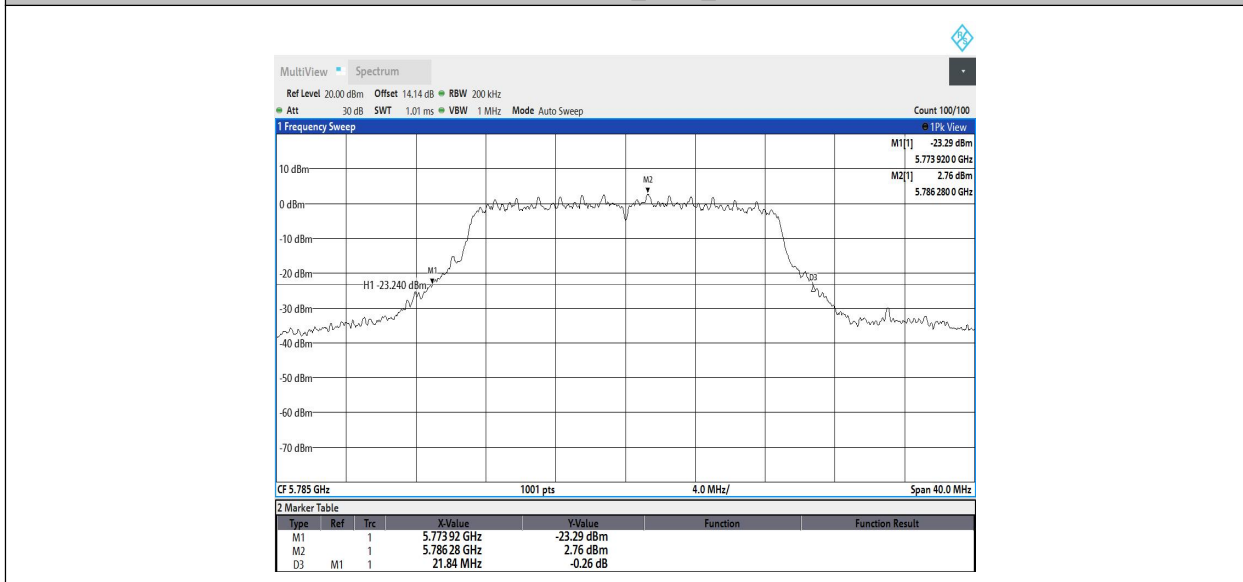
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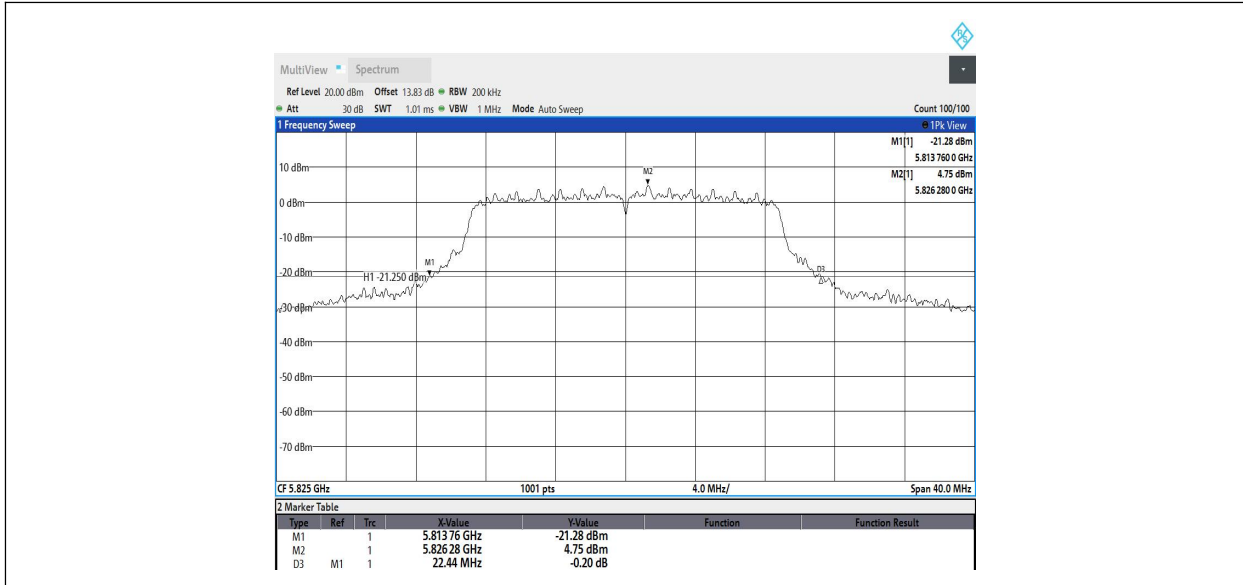
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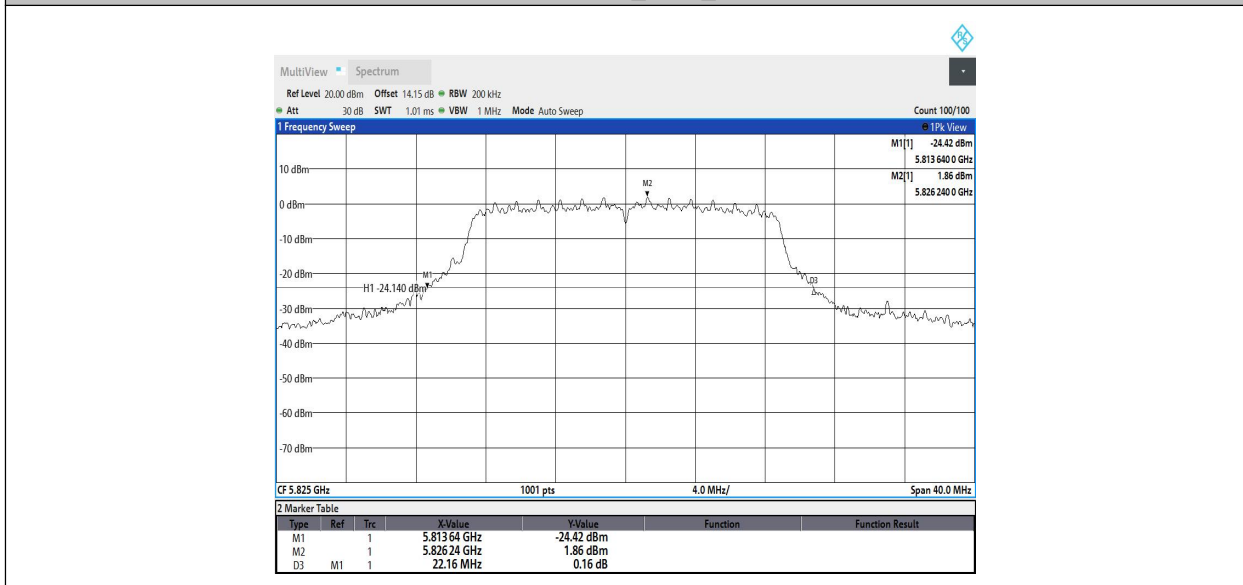
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11AC20SISO_Ant2_5825



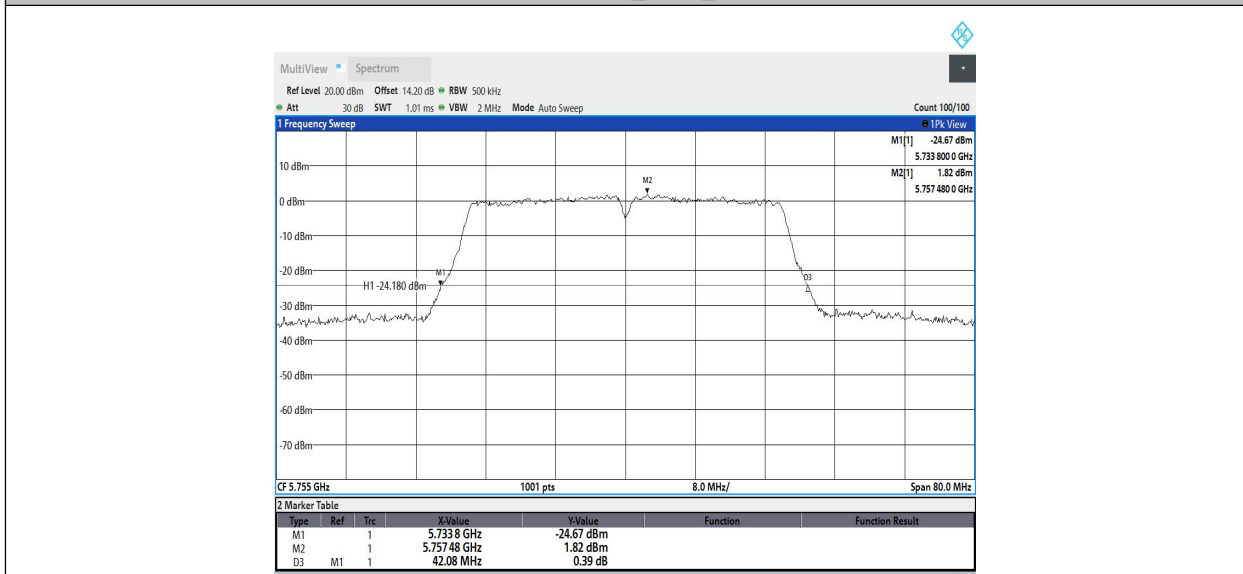
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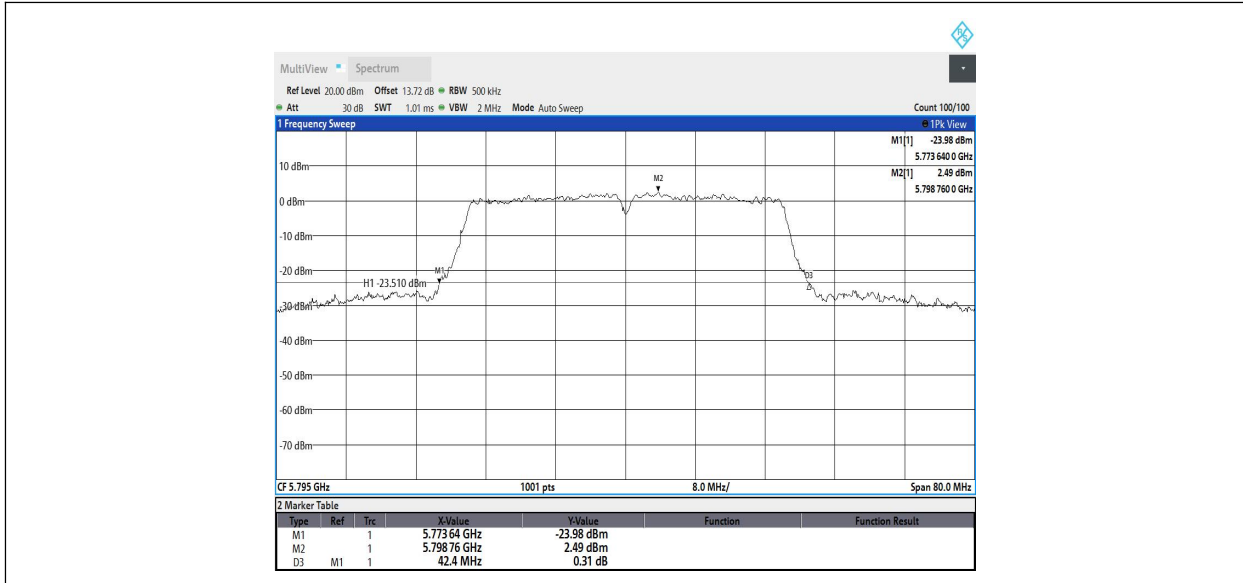
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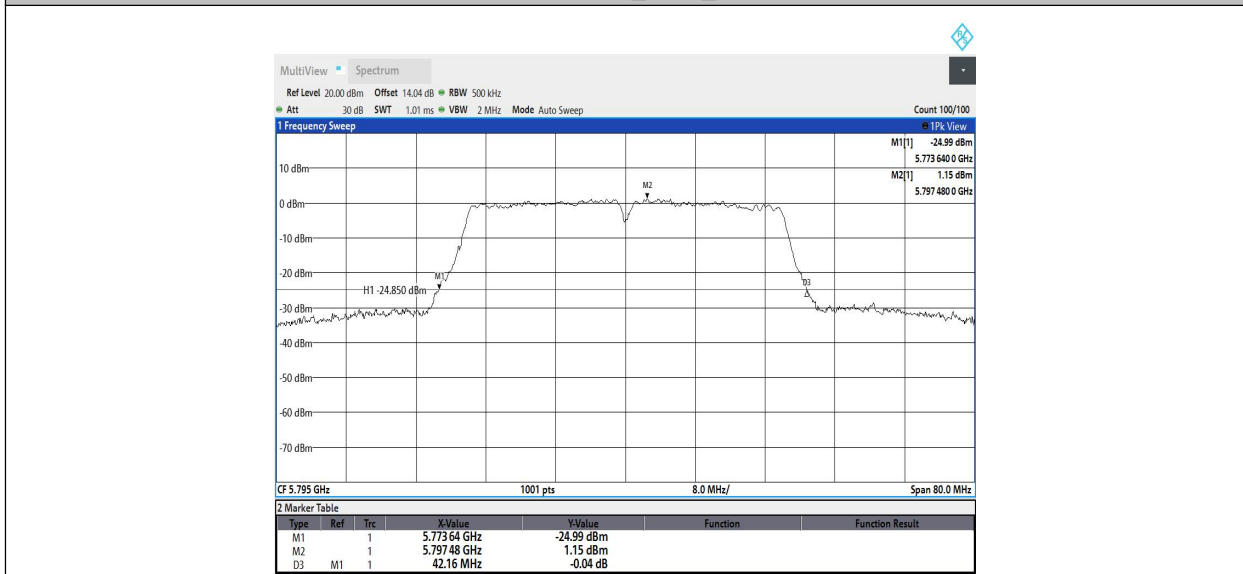
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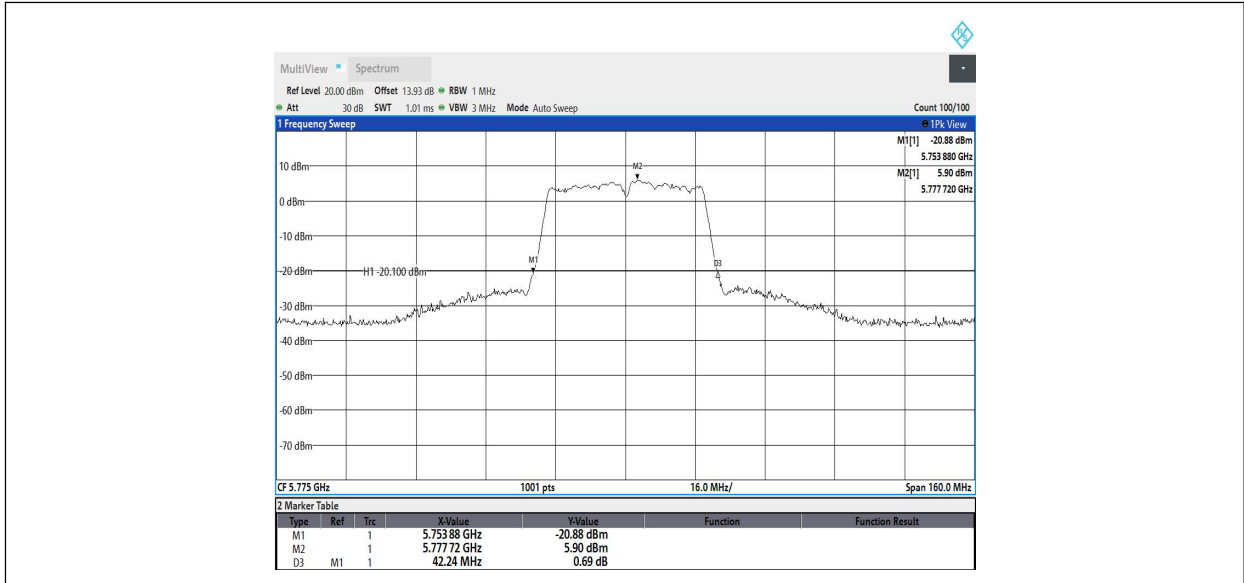
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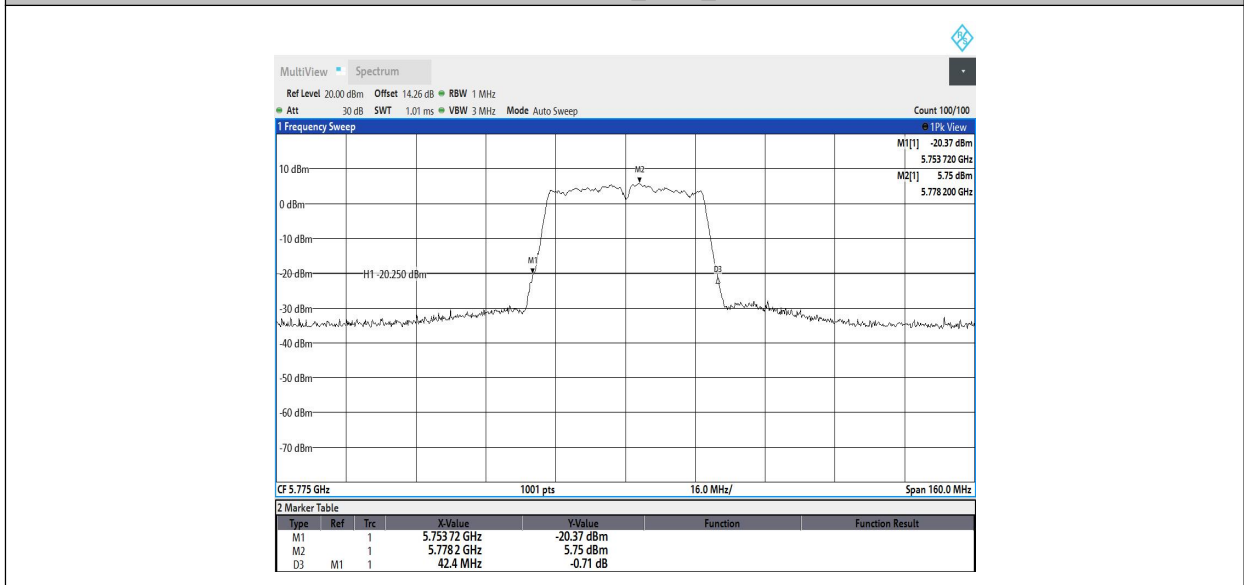
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11AC80SISO_Ant2_5775



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6.3 6dB Occupied Bandwidth

Specifications:	FCC 47 CFR Part 15.407(e)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit(KHz)
FCC 47 CFR Part 15.407(e)	≥500

Measurement Uncertainty:

Measurement Uncertainty	28kHz
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The measurement is made according to KDB 789033 C

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725-5.85GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW= 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated

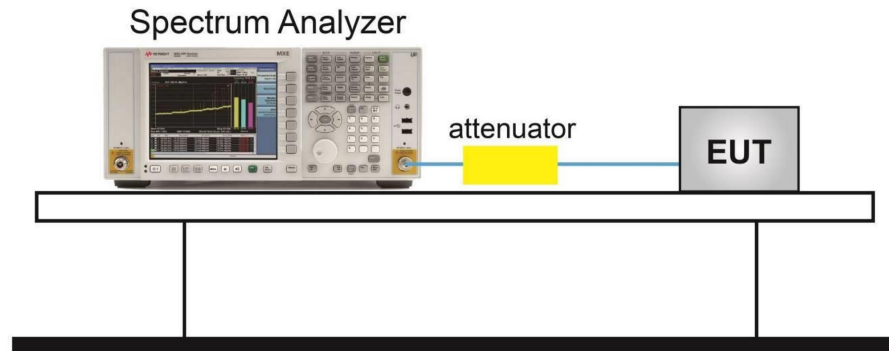
with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver maybe employed if it implements the functionality described above.

Test Setup

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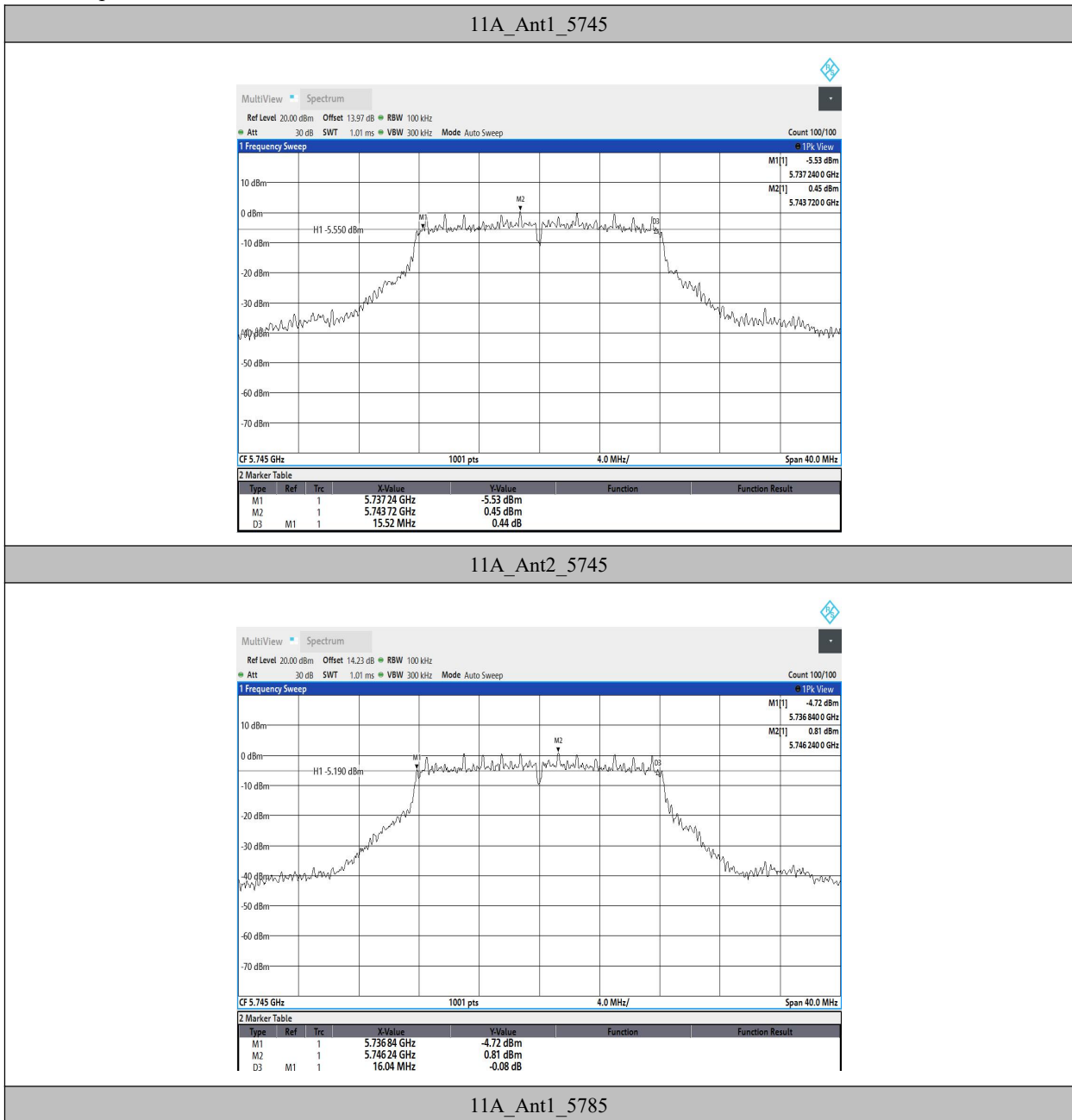
Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.52	5737.24	5752.76	0.5	PASS
	Ant2	5745	16.04	5736.84	5752.88	0.5	PASS
	Ant1	5785	15.56	5777.20	5792.76	0.5	PASS
	Ant2	5785	15.44	5777.08	5792.52	0.5	PASS
	Ant1	5825	15.88	5816.84	5832.72	0.5	PASS
	Ant2	5825	15.56	5817.20	5832.76	0.5	PASS
11N20SISO	Ant1	5745	16.56	5736.56	5753.12	0.5	PASS
	Ant2	5745	16.00	5736.56	5752.56	0.5	PASS
	Ant1	5785	16.56	5776.56	5793.12	0.5	PASS
	Ant2	5785	16.20	5776.56	5792.76	0.5	PASS
	Ant1	5825	16.56	5816.56	5833.12	0.5	PASS
	Ant2	5825	16.56	5816.56	5833.12	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant2	5755	36.08	5736.84	5772.92	0.5	PASS
	Ant1	5795	35.36	5777.24	5812.60	0.5	PASS
	Ant2	5795	35.76	5776.84	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	16.56	5736.56	5753.12	0.5	PASS
	Ant2	5745	16.56	5736.56	5753.12	0.5	PASS
	Ant1	5785	16.56	5776.56	5793.12	0.5	PASS
	Ant2	5785	16.56	5776.56	5793.12	0.5	PASS
	Ant1	5825	16.56	5816.56	5833.12	0.5	PASS
	Ant2	5825	16.00	5816.56	5832.56	0.5	PASS
11AC40SISO	Ant1	5755	36.32	5736.84	5773.16	0.5	PASS
	Ant2	5755	35.76	5736.84	5772.60	0.5	PASS
	Ant1	5795	35.92	5777.24	5813.16	0.5	PASS
	Ant2	5795	35.76	5776.84	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	35.20	5757.40	5792.60	0.5	PASS
	Ant2	5775	35.68	5756.92	5792.60	0.5	PASS

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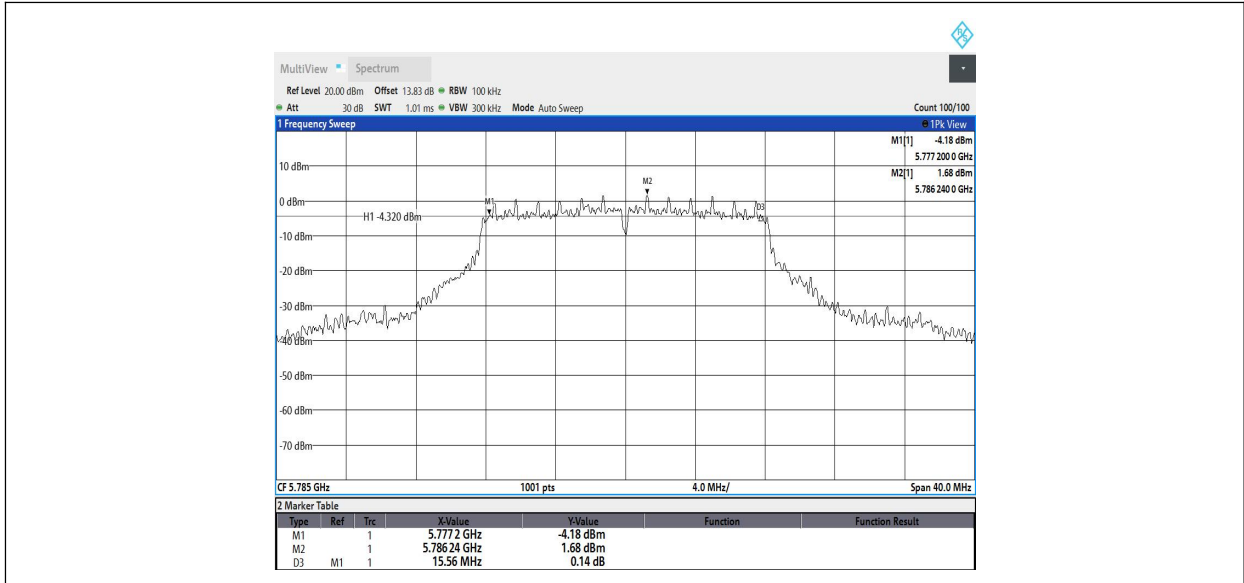
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Test Graphs B4

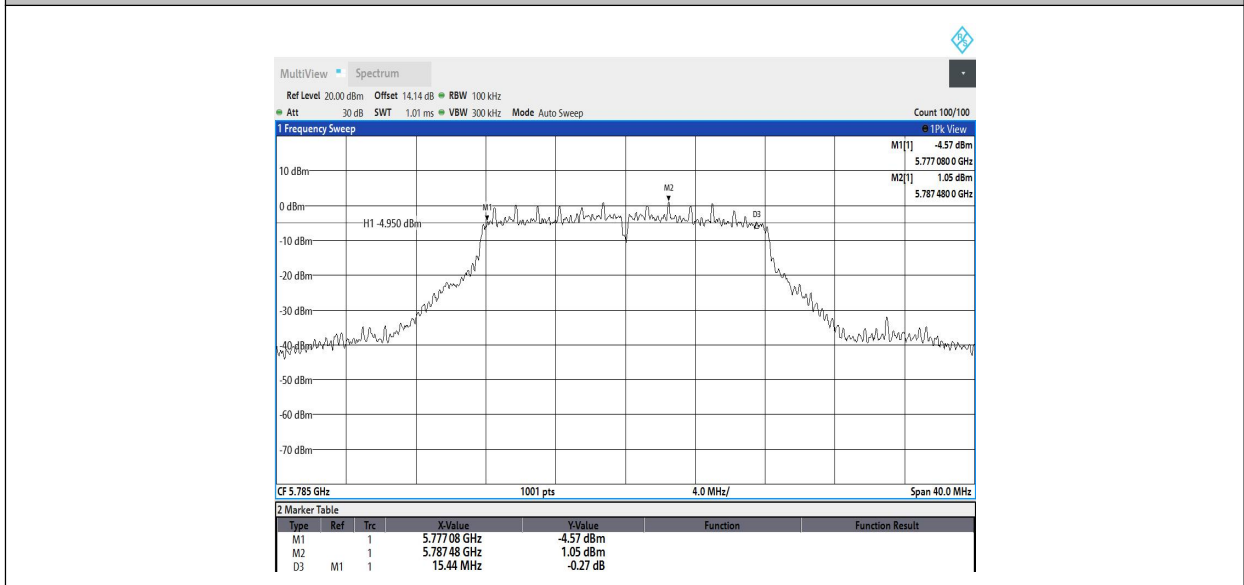


11A_Ant2_5745

11A_Ant1_5785



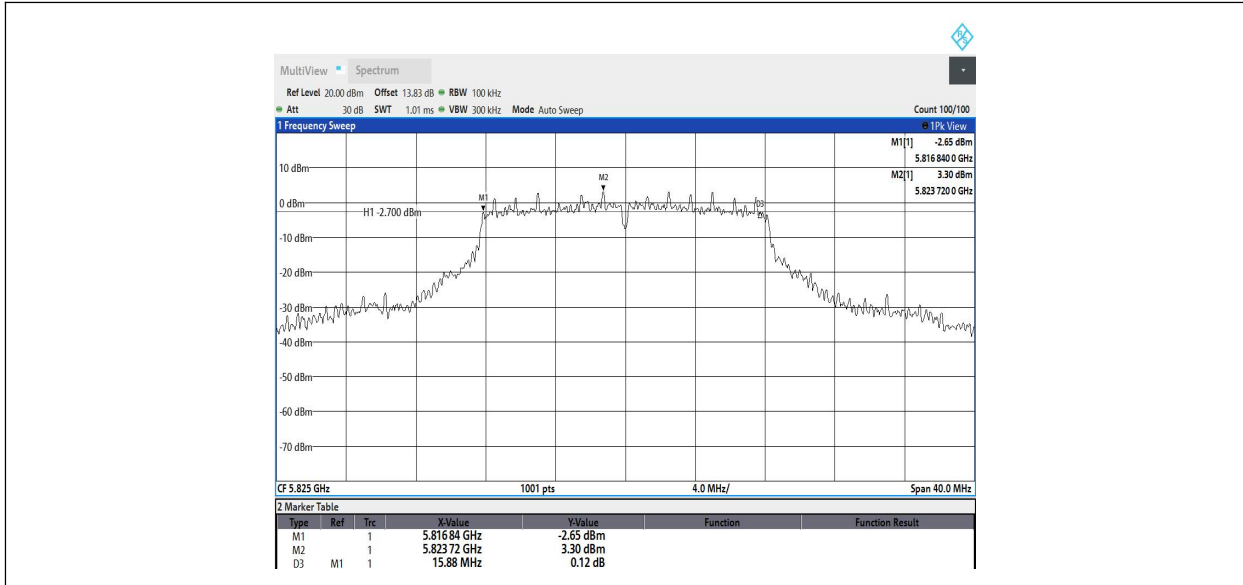
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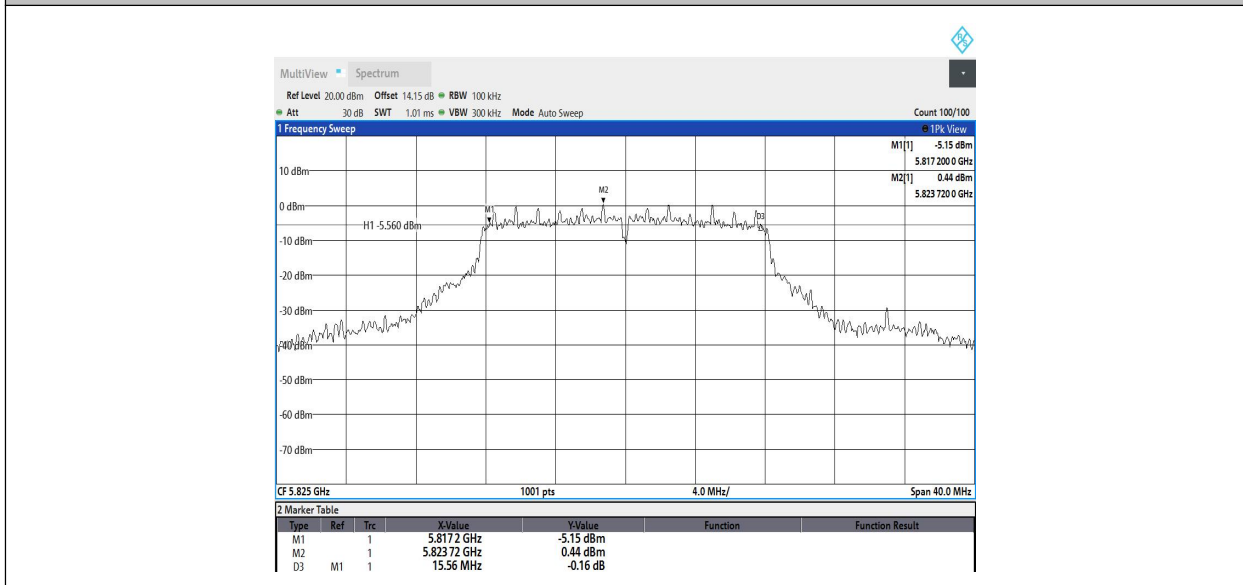
11A_Ant1_5825

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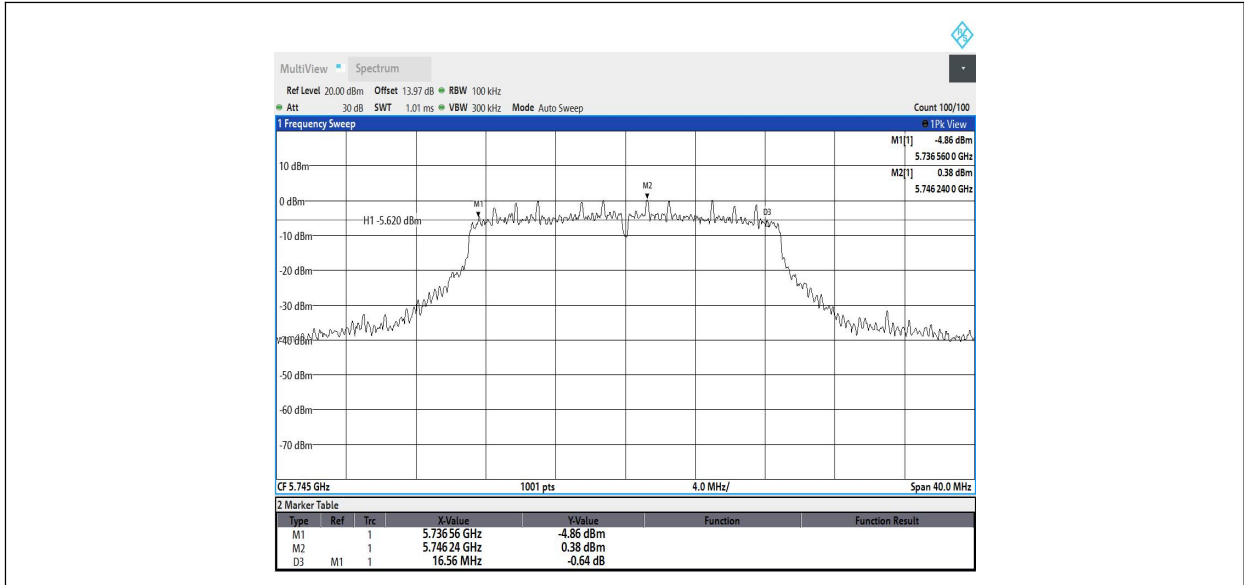
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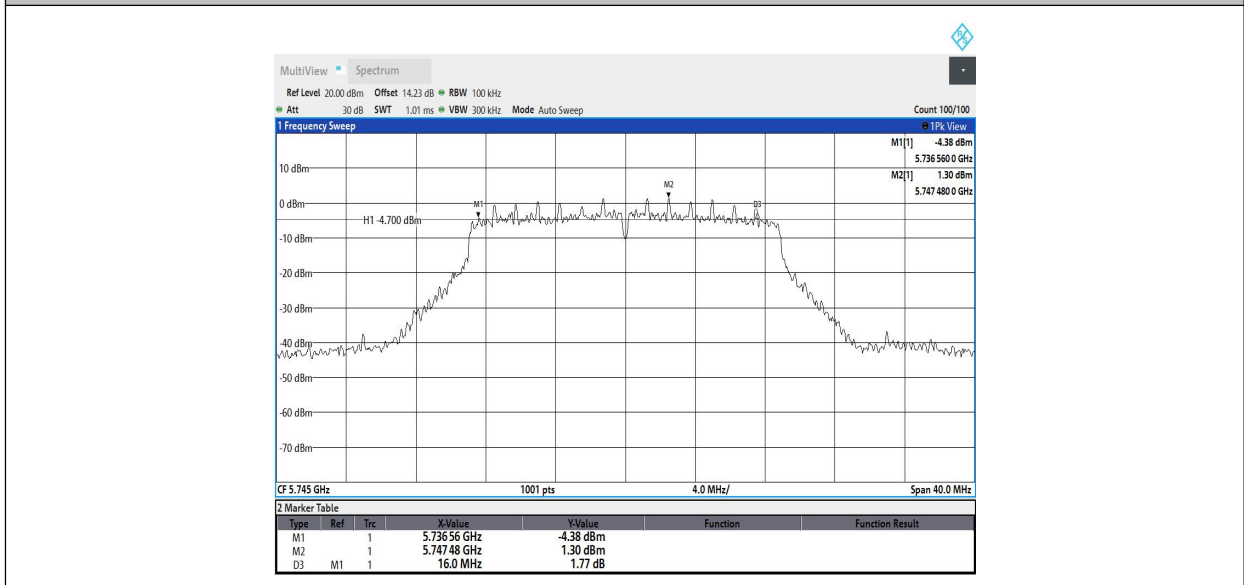
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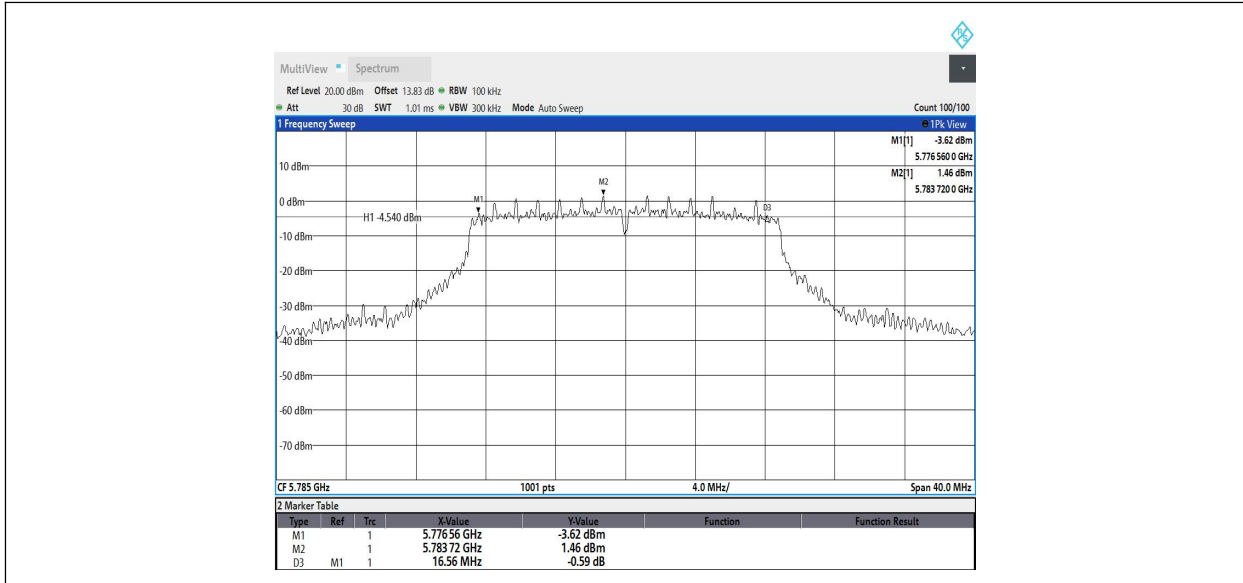
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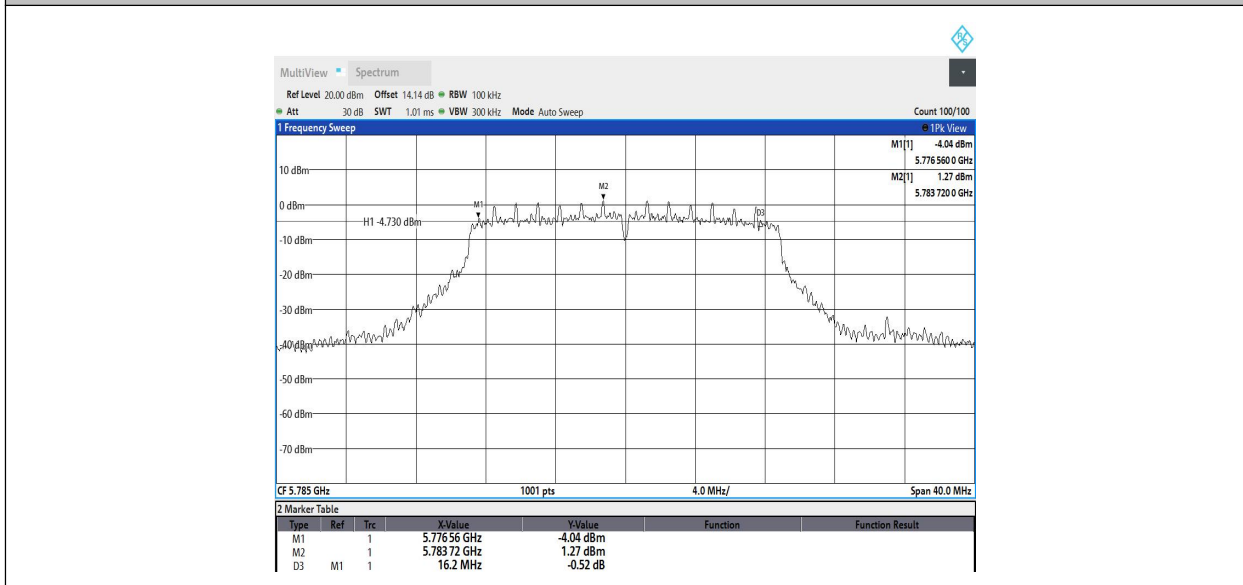
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11N20SISO_Ant1_5785



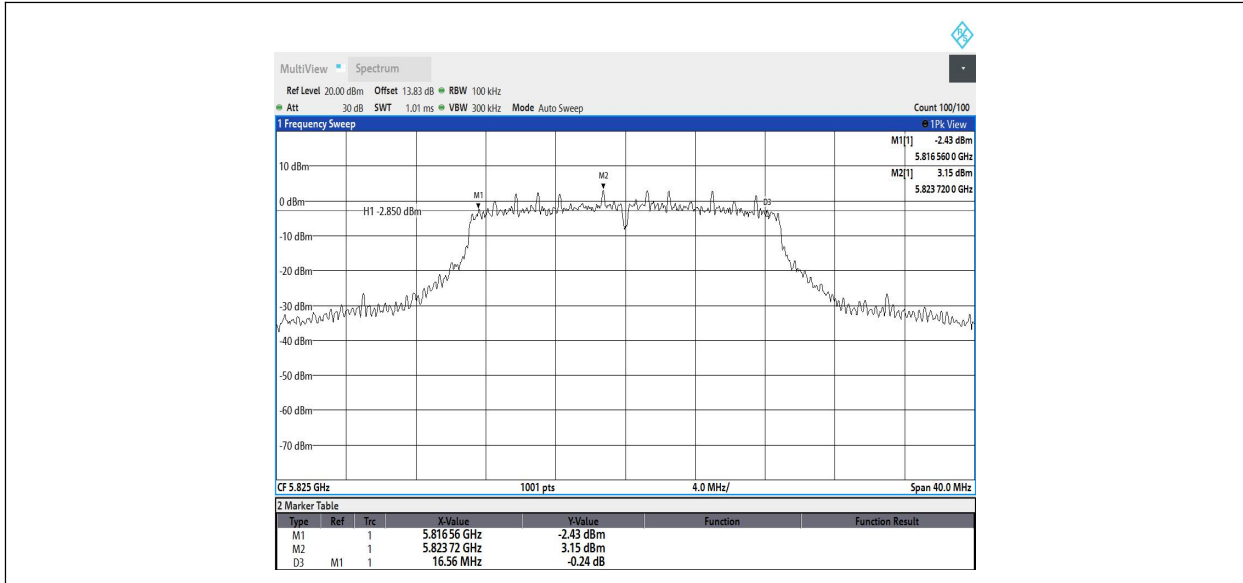
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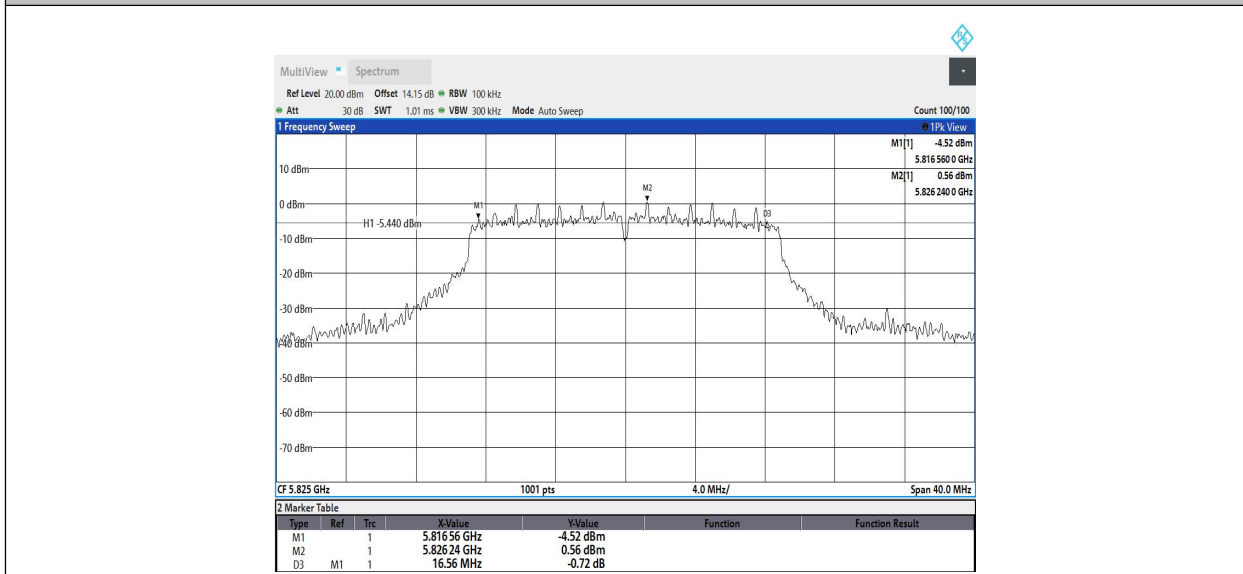
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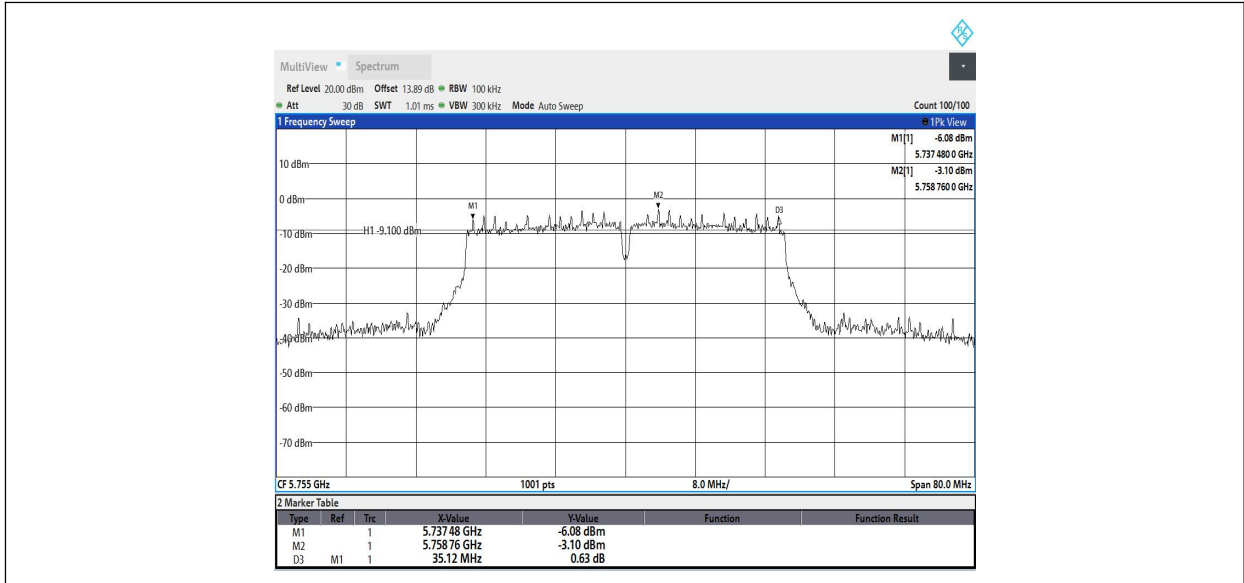
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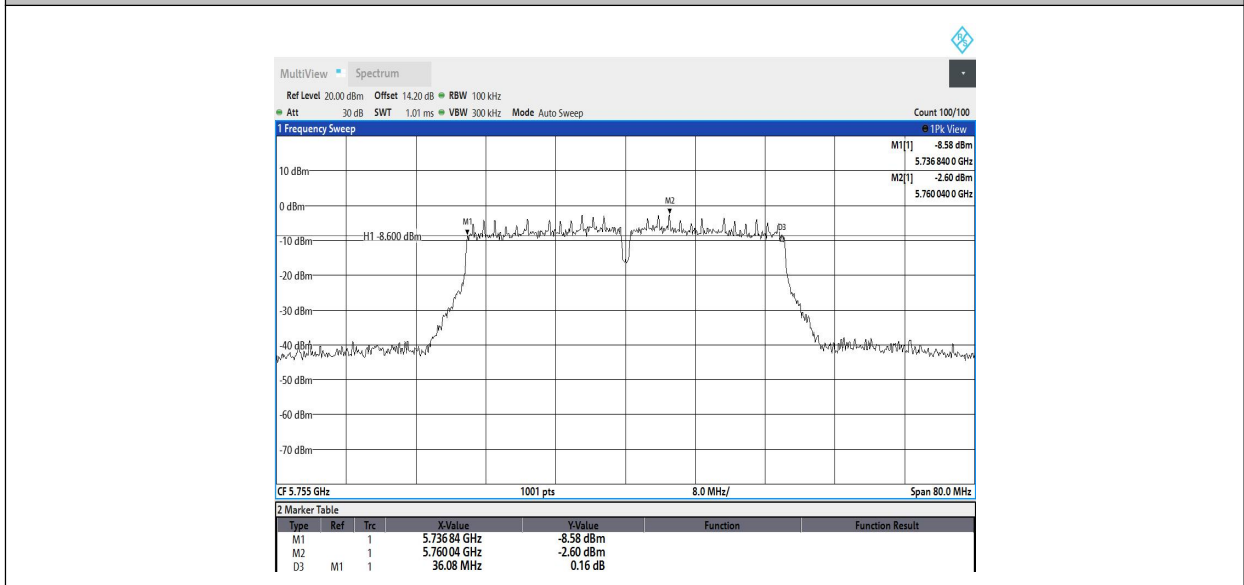
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11N40SISO_Ant1_5795

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