



FCC CERTIFICATION TEST REPORT

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Applicant	:	2/F, F Building, Hougang Industrial Zone, Shigang, Huangshi West Road, Baiyun District, Guangzhou, China
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Manufacturer	:	2/F, F Building, Hougang Industrial Zone, Shigang, Huangshi West Road, Baiyun District, Guangzhou, China
Equipment under Test	:	Streaming Music Receiver
Model No.	:	F3081S, F3082S, F3083S, F3084S, F3085S, F3086S, F3087S, F3088S, F3089S, F4081S, F4082S, F4083S, F4084S, F4085S, F4086S, F4087S, F4088S, F4089S
FCC ID	:	R56-F30814
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, ANSI C63.10:2020, 789033 D02 General U-NII Test Procedures New Rules v02r01
Report No.	:	DDT-RE24061713-2E10
Issue Date	:	2024/08/22
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Applicant	:	2/F, F Building, Hougang Industrial Zone, Shigang, Huangshi West Road, Baiyun District, Guangzhou, China
Equipment under Test	:	Streaming Music Receiver
Model No.	:	F3081S, F3082S, F3083S, F3084S, F3085S, F3086S, F3087S, F3088S, F3089S, F4081S, F4082S, F4083S, F4084S, F4085S, F4086S, F4087S, F4088S, F4089S
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Manufacturer	:	2/F, F Building, Hougang Industrial Zone, Shigang, Huangshi West Road, Baiyun District, Guangzhou, China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E

Test procedure used:

ANSI C63.10:2020, 789033 D02 General U-NII Test Procedures New Rules v02r01

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No.:	DDT-RE24061713-2E10		
Date of Receipt:	2024/06/25	Date of Test:	2024/06/25~2024/08/22

Prepared By:**Jacky Huang/Engineer****Approved By:****Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/08/22	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Results
6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e)	PASS
Maximum Conducted Output Power	FCC 15.407 (a)	PASS
Power Spectral Density	FCC 15.407 (a)	PASS
Frequency Stability Measurement	FCC 15.407 (g)	PASS
Emissions in restricted frequency bands	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
Band Edge Compliance	FCC 15.407 (b) FCC 15.209 FCC 15.205	PASS
Power Line Conducted Emission	FCC 15.207	PASS
Antenna requirement	FCC 15.203	PASS
Dynamic Frequency Selection	FCC 15.407 (h)	PASS

2. General Test Information

2.1. Description of EUT

EUT Name	: Streaming Music Receiver
Model Number	: F3081S, F3082S, F3083S, F3084S, F3085S, F3086S, F3087S, F3088S, F3089S, F4081S, F4082S, F4083S, F4084S, F4085S, F4086S, F4087S, F4088S, F4089S
Model Difference	: Only the model name is different, any other is the same. The test model is F3081S.
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V powered by an external adapter
Radio Specification	: Bluetooth (BR/EDR/LE), WLAN (2.4 GHz): IEEE 802.11b/g/n, WLAN (5 GHz): IEEE 802.11a/n/ac
Operation Frequency	: Bluetooth (BR/EDR/LE): 2402 MHz-2480 MHz IEEE 802.11b/g/n: 2412 MHz to 2462 MHz, IEEE 802.11a/n/ac: 5180 MHz to 5240 MHz, 5260 MHz to 5320 MHz, 5500 MHz to 5720 MHz, 5745 MHz to 5825 MHz
Modulation	: Bluetooth BR/EDR: GFSK, $\pi/4$ -DQPSK, 8DPSK Bluetooth LE: GFSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Note 1: EUT is the abbreviation of equipment under test.

Note 2: This report only for WLAN (5 GHz): IEEE 802.11a/n/ac.

Note 3: Simultaneously transmission condition: N/A.

Note 4: Antenna information:

5 GHz WLAN Antenna information:	
Antenna Type	FPC
Antenna Gain (dBi)	2.58
Note: This product does not support beamforming.	

Note 5: Channel information:

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/

44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310		/
60	5300	/	/	/	/
64	5320	/	/	/	/
UNII-2C					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	142	5710	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/
136	5680	/	/	/	/
140	5700	/	/	/	/
144	5720	/	/	/	/
UNII-3					
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

Note 6: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

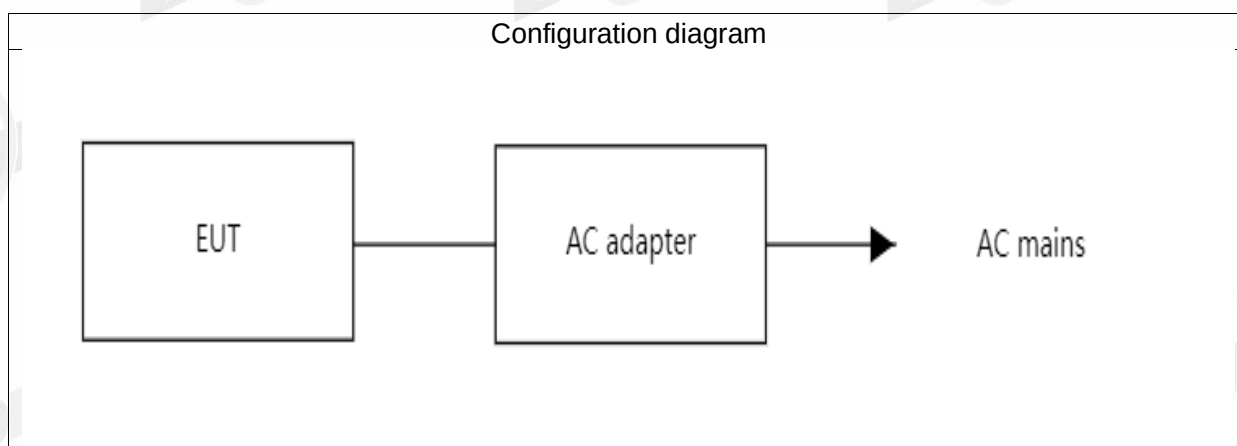
2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Adapter	/	/	/
Remote controller	/	/	/
Type-C cable	/	/	/

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Other	SN
Laptop	Lenovo	X201	N/A	00154-290-415-484
Router	ASUS	GT-AXE11000	FCC ID: MSQ-RTAXJF00	M8IG0X400384RSG

2.4. Block diagram of EUT configuration for test



The Putty.exe was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11a	10	6	Low: CH36	5180
	10	6	Middle: CH40	5200
	10	6	High: CH48	5240
	10	6	Low: CH52	5260
	10	6	Middle: CH56	5280
	10	6	High: CH64	5320
	10	6	Low: CH100	5500
	10	6	Middle: CH116	5580
	10	6	High: CH140	5700
	10	6	High: CH144	5720
	10	6	Low: CH149	5745
	10	6	Middle: CH157	5785
	10	6	High: CH165	5825
IEEE 802.11n HT20	10	MCS 0	Low: CH36	5180
	10	MCS 0	Middle: CH40	5200
	10	MCS 0	High: CH48	5240

	10	MCS 0	Low: CH52	5260
	10	MCS 0	Middle: CH56	5280
	10	MCS 0	High: CH64	5320
	10	MCS 0	Low: CH100	5500
	10	MCS 0	Middle: CH116	5580
	10	MCS 0	High: CH140	5700
	10	MCS 0	High: CH144	5720
	10	MCS 0	Low: CH149	5745
	10	MCS 0	Middle: CH157	5785
	10	MCS 0	High: CH165	5825
IEEE 802.11n HT40	10	MCS 0	Low: CH38	5190
	10	MCS 0	Middle: CH46	5230
	10	MCS 0	High: CH54	5270
	10	MCS 0	Low: CH62	5310
	10	MCS 0	Middle: CH102	5510
	10	MCS 0	High: CH110	5550
	10	MCS 0	Low: CH134	5670
	10	MCS 0	Low: CH142	5710
	10	MCS 0	Middle: CH151	5755
	10	MCS 0	High: CH159	5795
IEEE 802.11ac VHT20	10	MCS 0	Low: CH36	5180
	10	MCS 0	Middle: CH40	5200
	10	MCS 0	High: CH48	5240
	10	MCS 0	Low: CH52	5260
	10	MCS 0	Middle: CH56	5280
	10	MCS 0	High: CH64	5320
	10	MCS 0	Low: CH100	5500
	10	MCS 0	Middle: CH116	5580
	10	MCS 0	High: CH140	5700
	10	MCS 0	High: CH144	5720
	10	MCS 0	Low: CH149	5745
	10	MCS 0	Middle: CH157	5785
	10	MCS 0	High: CH165	5825
IEEE 802.11ac VHT40	10	MCS 0	Low: CH38	5190
	10	MCS 0	Middle: CH46	5230
	10	MCS 0	High: CH54	5270
	10	MCS 0	Low: CH62	5310
	10	MCS 0	Middle: CH102	5510
	10	MCS 0	High: CH110	5550

	10	MCS 0	Low: CH134	5670
	10	MCS 0	Low: CH142	5710
	10	MCS 0	Middle: CH151	5755
	10	MCS 0	High: CH159	5795
IEEE 802.11ac VHT80	10	MCS 0	CH42	5210
	10	MCS 0	CH58	5290
	10	MCS 0	CH106	5530
	10	MCS 0	CH122	5610
	10	MCS 0	CH122	5690
	10	MCS 0	CH155	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation.

2.6. Test environment conditions

Temperature range:	+15℃ to +35 ℃
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

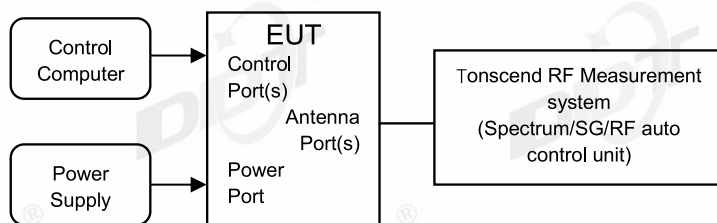
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☑RF Connected Test (RF Measurement System 4#)					
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05	1 Year
RF Control Unit	Tonsend	JS0806-2	21I8060485	2025/03/31	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	5470 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, 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 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	20.84	5169.60	5190.44	---	---
		5200	20.80	5189.64	5210.44	---	---
		5240	20.84	5229.60	5250.44	---	---
		5260	20.84	5249.60	5270.44	---	---
		5280	20.84	5269.60	5290.44	---	---
		5320	20.92	5309.60	5330.52	---	---
		5500	20.88	5489.56	5510.44	---	---
		5580	20.92	5569.52	5590.44	---	---
		5700	20.88	5689.56	5710.44	---	---
		5720	20.96	5709.52	5730.48	---	---
		5720_UNII-2C	15.48	5709.52	5725	---	---
		5720_UNII-3	5.48	5725	5730.48	---	---
		5745	20.96	5734.52	5755.48	---	---
		5785	20.80	5774.60	5795.40	---	---
		5825	20.92	5814.56	5835.48	---	---
11N20SISO	Ant1	5180	21.32	5169.36	5190.68	---	---
		5200	21.28	5189.32	5210.60	---	---
		5240	21.28	5229.32	5250.60	---	---
		5260	21.28	5249.40	5270.68	---	---
		5280	21.36	5269.24	5290.60	---	---
		5320	21.44	5309.24	5330.68	---	---
		5500	21.28	5489.28	5510.56	---	---
		5580	21.12	5569.40	5590.52	---	---
		5700	21.40	5689.32	5710.72	---	---
		5720	21.48	5709.24	5730.72	---	---
		5720_UNII-2C	15.76	5709.24	5725	---	---
		5720_UNII-3	5.72	5725	5730.72	---	---
		5745	21.24	5734.36	5755.60	---	---
		5785	21.28	5774.36	5795.64	---	---
		5825	21.24	5814.40	5835.64	---	---
11N40SISO	Ant1	5190	39.92	5170.00	5209.92	---	---
		5230	40.00	5210.08	5250.08	---	---
		5270	39.84	5250.16	5290.00	---	---
		5310	40.00	5290.00	5330.00	---	---
		5510	40.08	5489.76	5529.84	---	---
		5550	40.00	5529.92	5569.92	---	---
		5670	39.92	5650.16	5690.08	---	---

		5755	39.92	5735.08	5775.00	---	---
		5795	39.92	5775.16	5815.08	---	---
11AC20SISO	Ant1	5180	21.36	5169.32	5190.68	---	---
		5200	21.20	5189.36	5210.56	---	---
		5240	21.24	5229.40	5250.64	---	---
		5260	21.28	5249.36	5270.64	---	---
		5280	21.24	5269.40	5290.64	---	---
		5320	21.24	5309.32	5330.56	---	---
		5500	21.12	5489.36	5510.48	---	---
		5580	21.44	5569.24	5590.68	---	---
		5700	21.40	5689.32	5710.72	---	---
		5720	21.32	5709.32	5730.64	---	---
		5720_UNII-2C	15.68	5709.32	5725	---	---
		5720_UNII-3	5.64	5725	5730.64	---	---
		5745	21.36	5734.32	5755.68	---	---
		5785	21.36	5774.32	5795.68	---	---
		5825	21.32	5814.32	5835.64	---	---
11AC40SISO	Ant1	5190	40.00	5170.16	5210.16	---	---
		5230	39.84	5210.08	5249.92	---	---
		5270	39.84	5250.16	5290.00	---	---
		5310	39.92	5290.08	5330.00	---	---
		5510	40.00	5489.92	5529.92	---	---
		5550	39.92	5530.00	5569.92	---	---
		5670	40.08	5650.08	5690.16	---	---
		5710	39.76	5690.16	5729.92	---	---
		5710_UNII-2C	34.84	5690.16	5725	---	---
		5710_UNII-3	4.92	5725	5729.92	---	---
		5755	40.08	5735.00	5775.08	---	---
		5795	40.00	5775.00	5815.00	---	---
11AC80SISO	Ant1	5210	81.60	5169.52	5251.12	---	---
		5290	81.60	5249.36	5330.96	---	---
		5530	81.60	5489.20	5570.80	---	---
		5610	81.76	5569.04	5650.80	---	---
		5690	81.12	5649.68	5730.80	---	---
		5690_UNII-2C	75.32	5649.68	5725	---	---
		5690_UNII-3	5.8	5725	5730.80	---	---
		5775	81.12	5734.68	5815.80	---	---

4.5. Test graphs

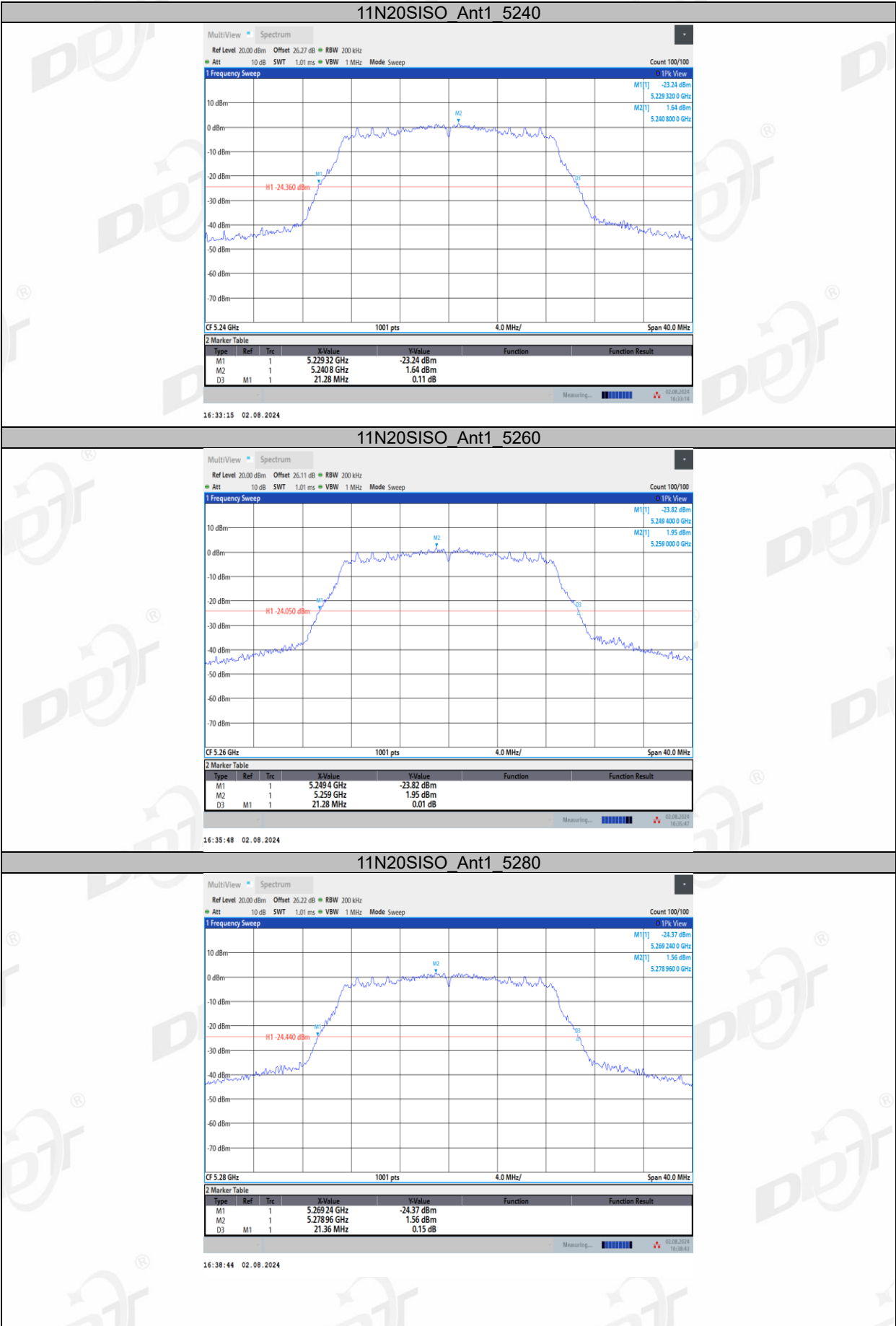


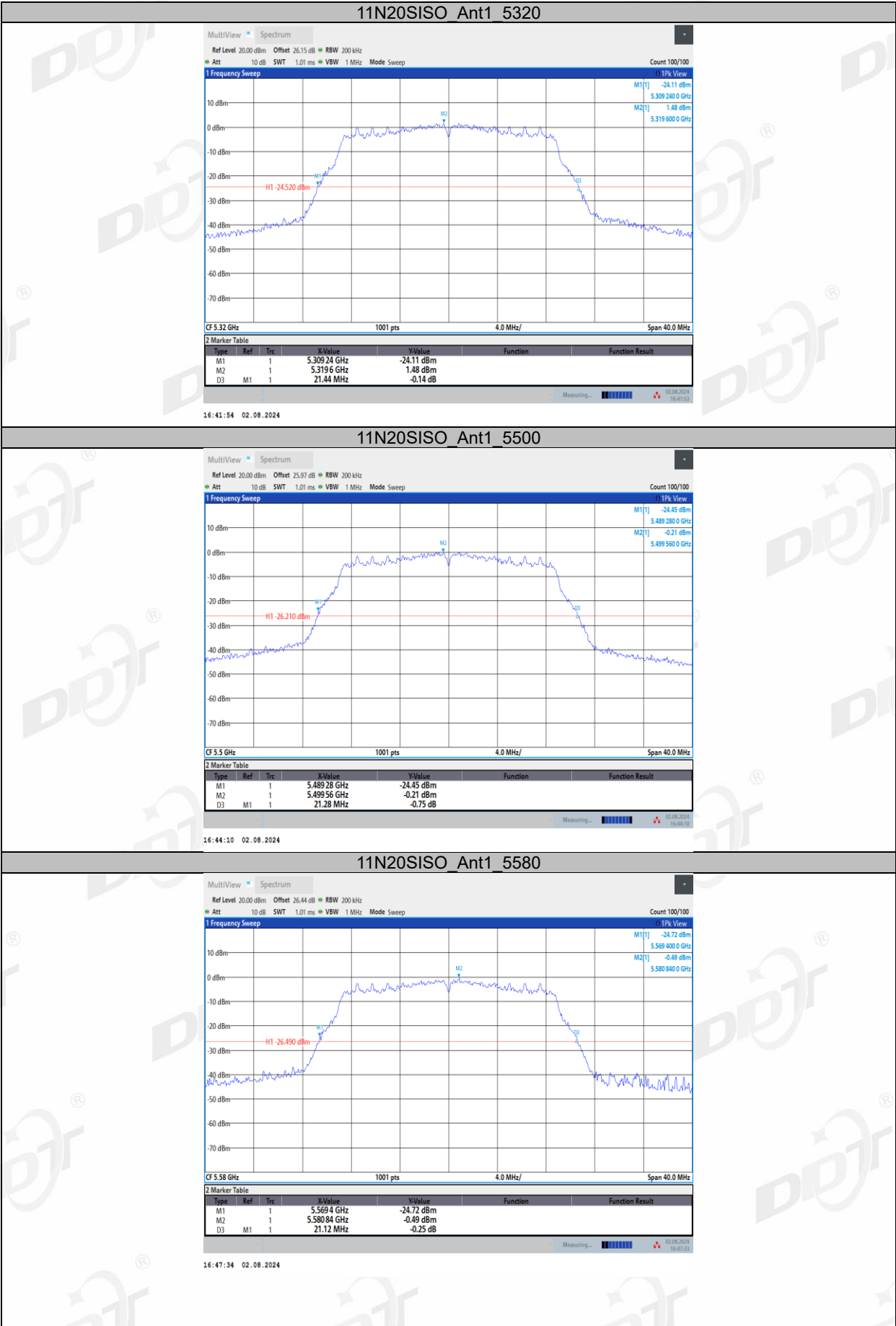








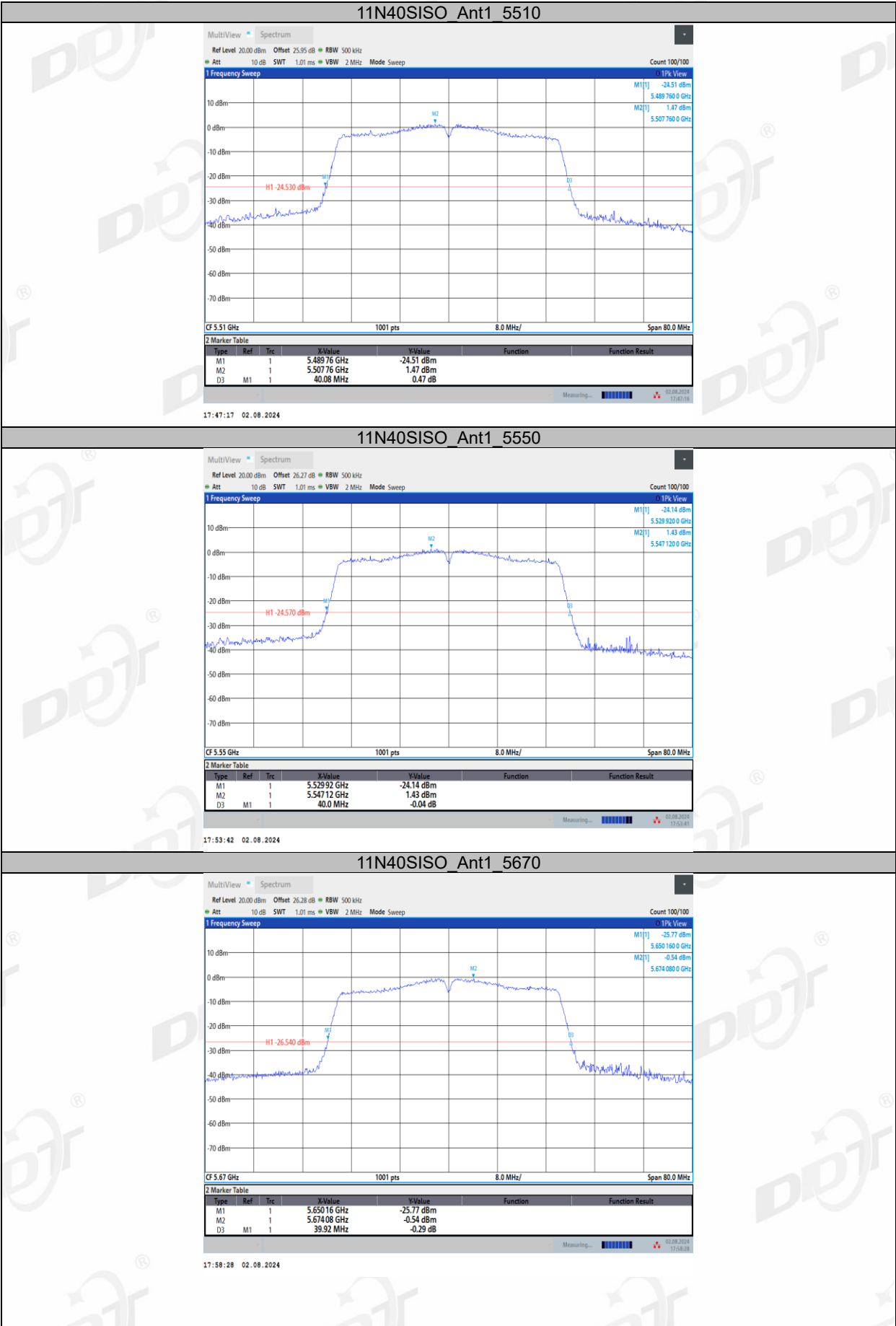


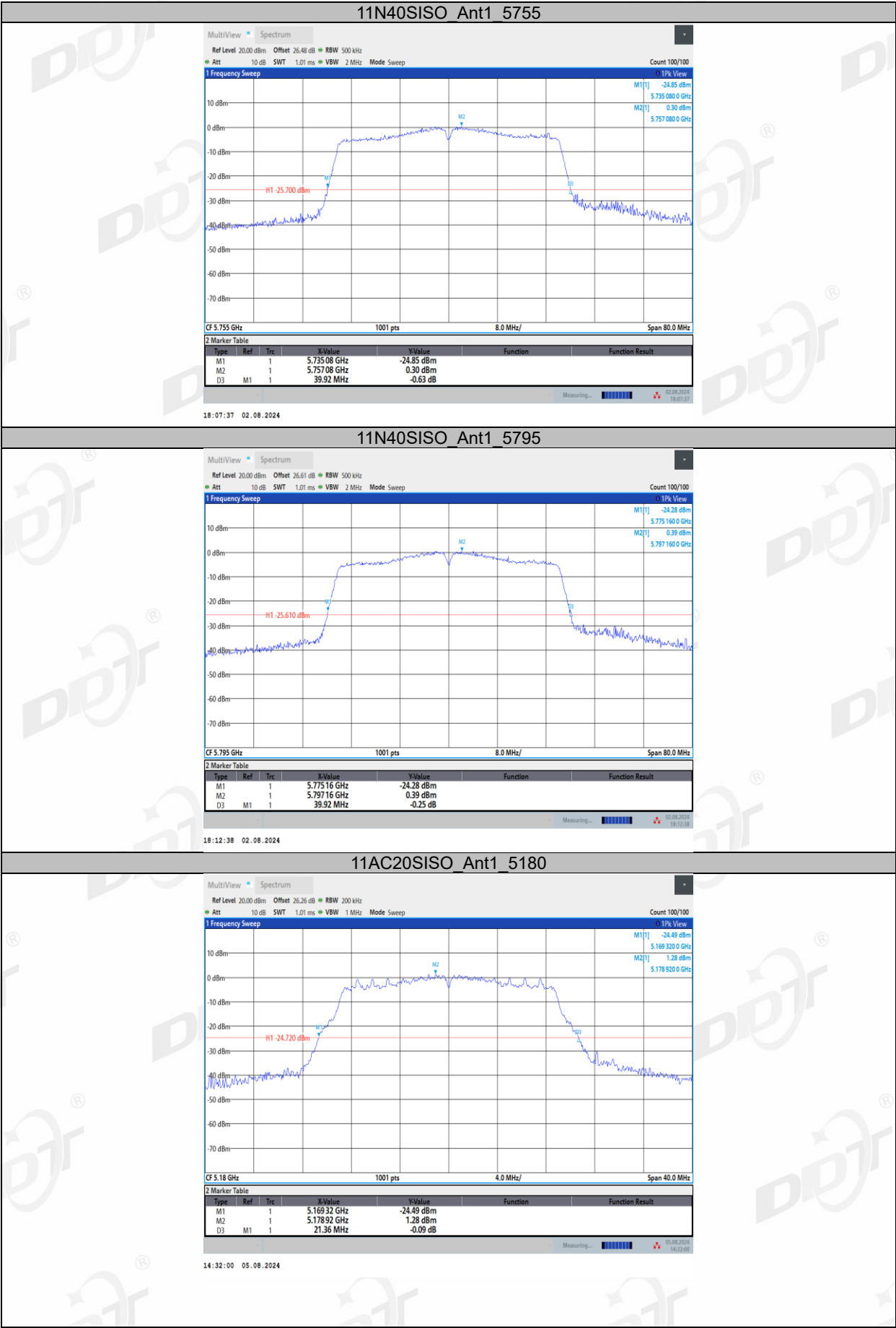


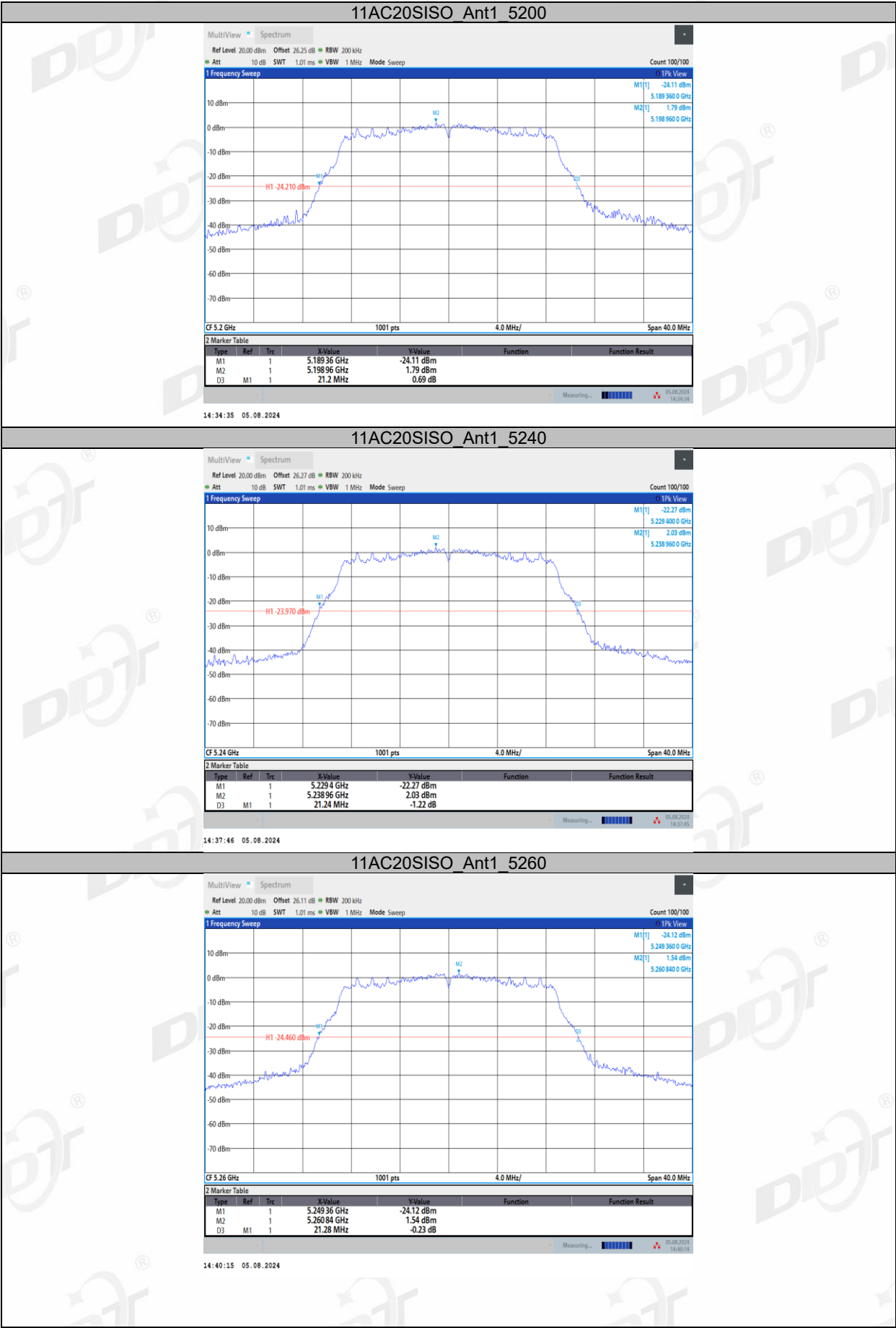












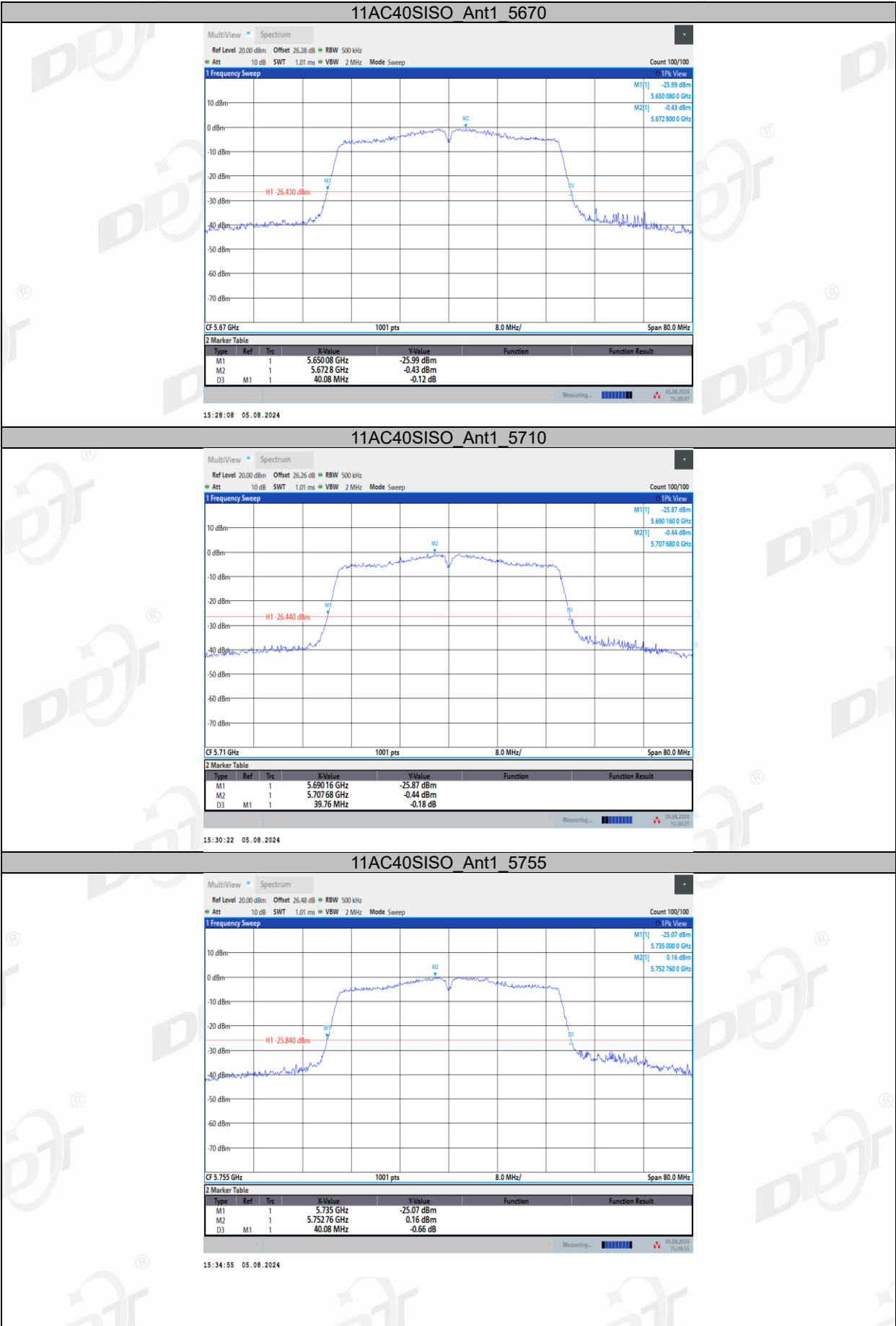


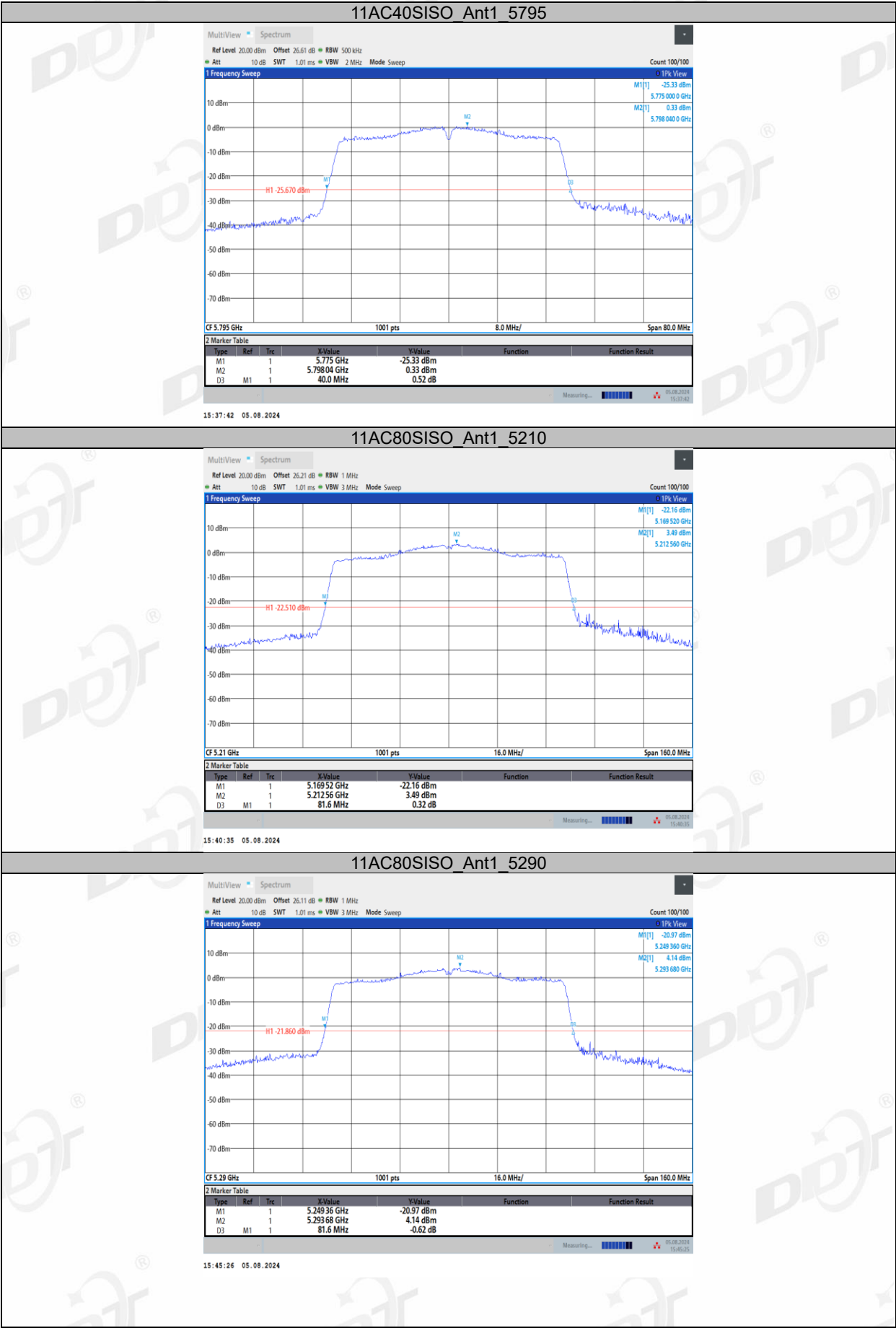


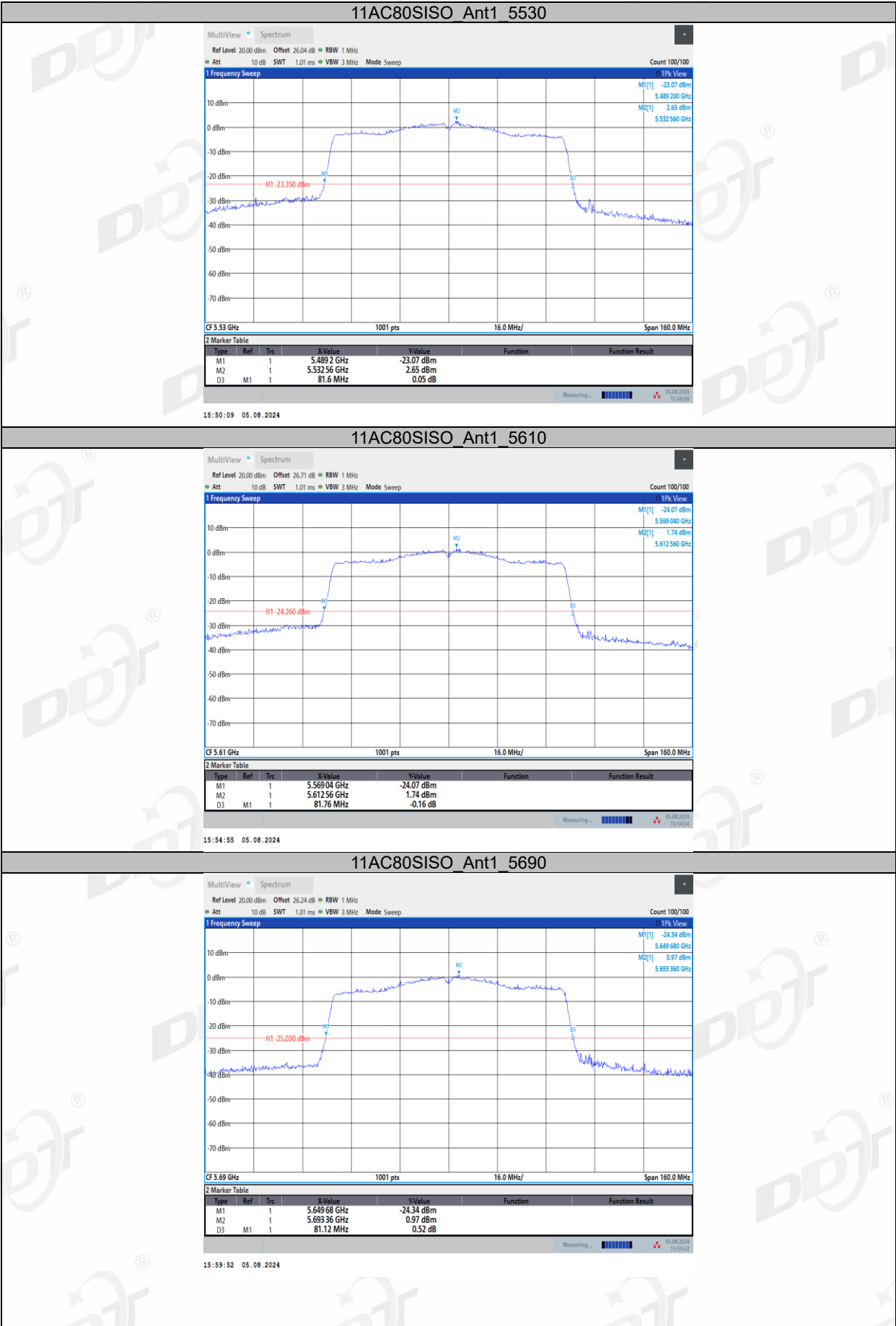


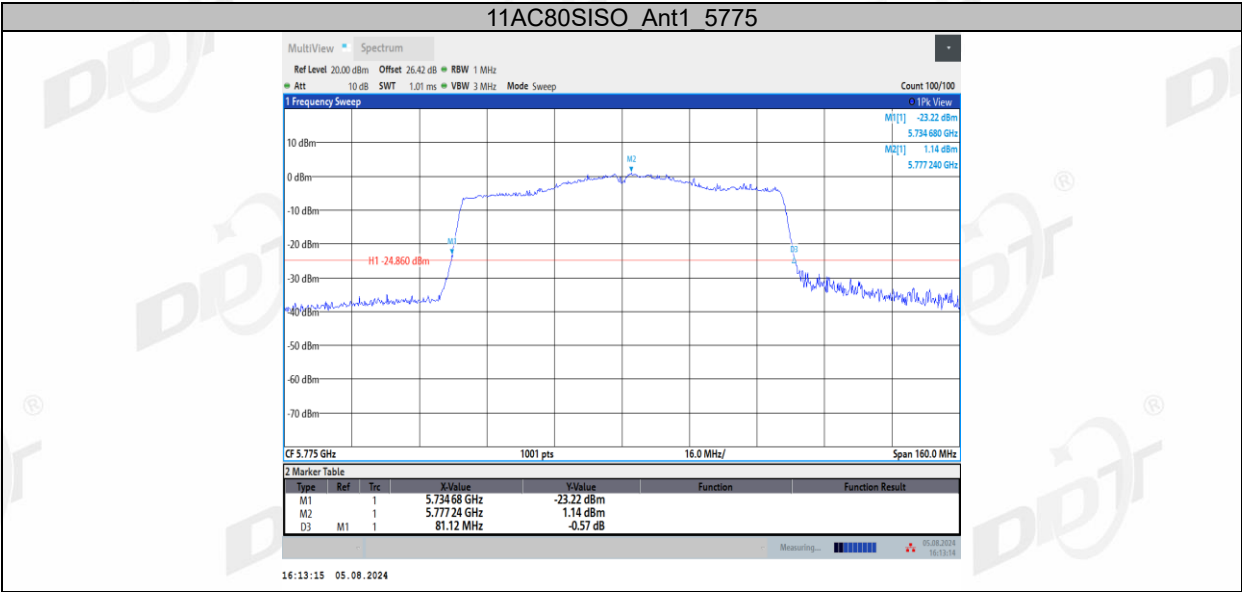






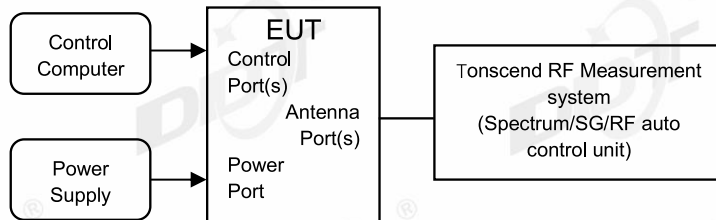






5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

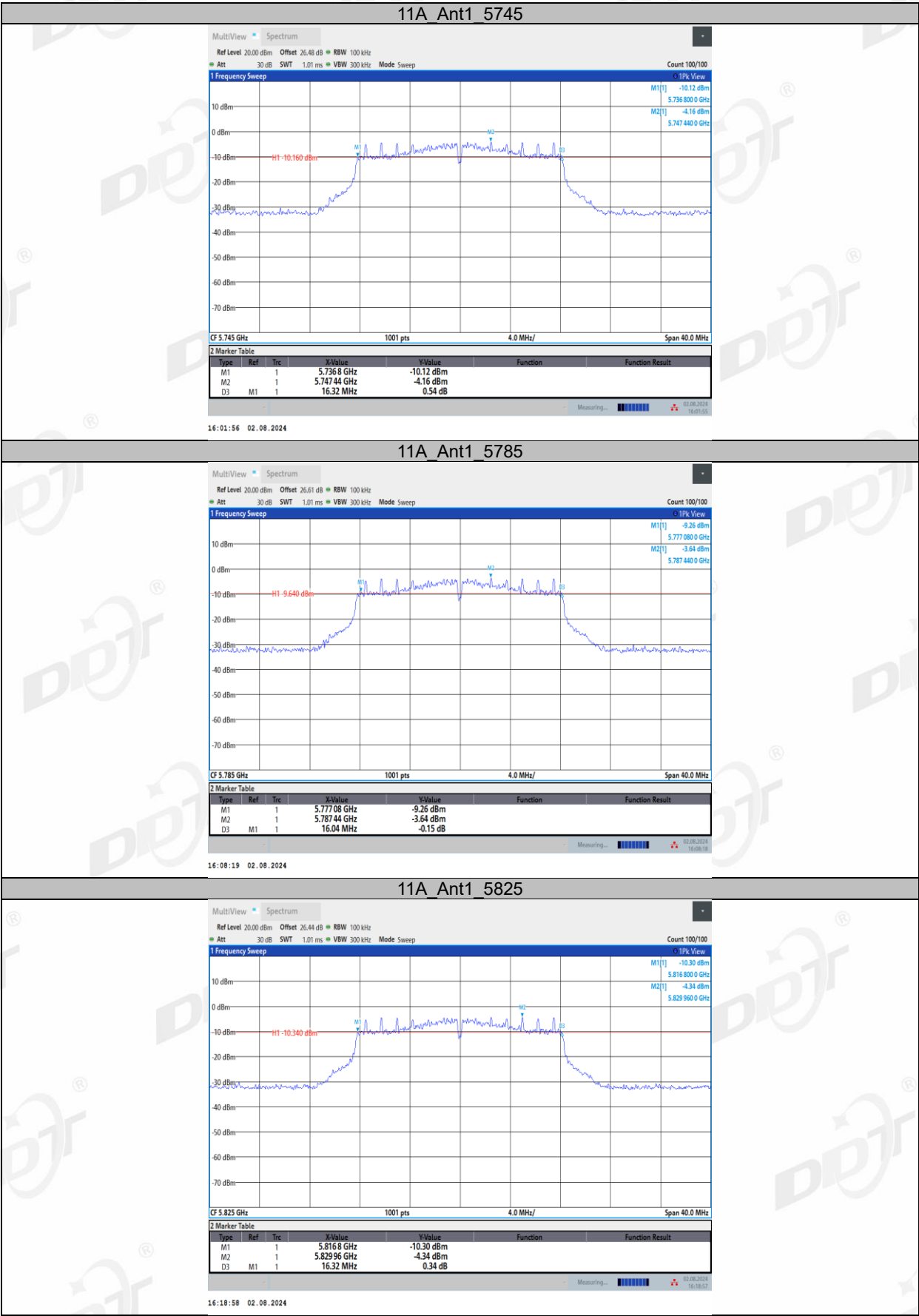
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

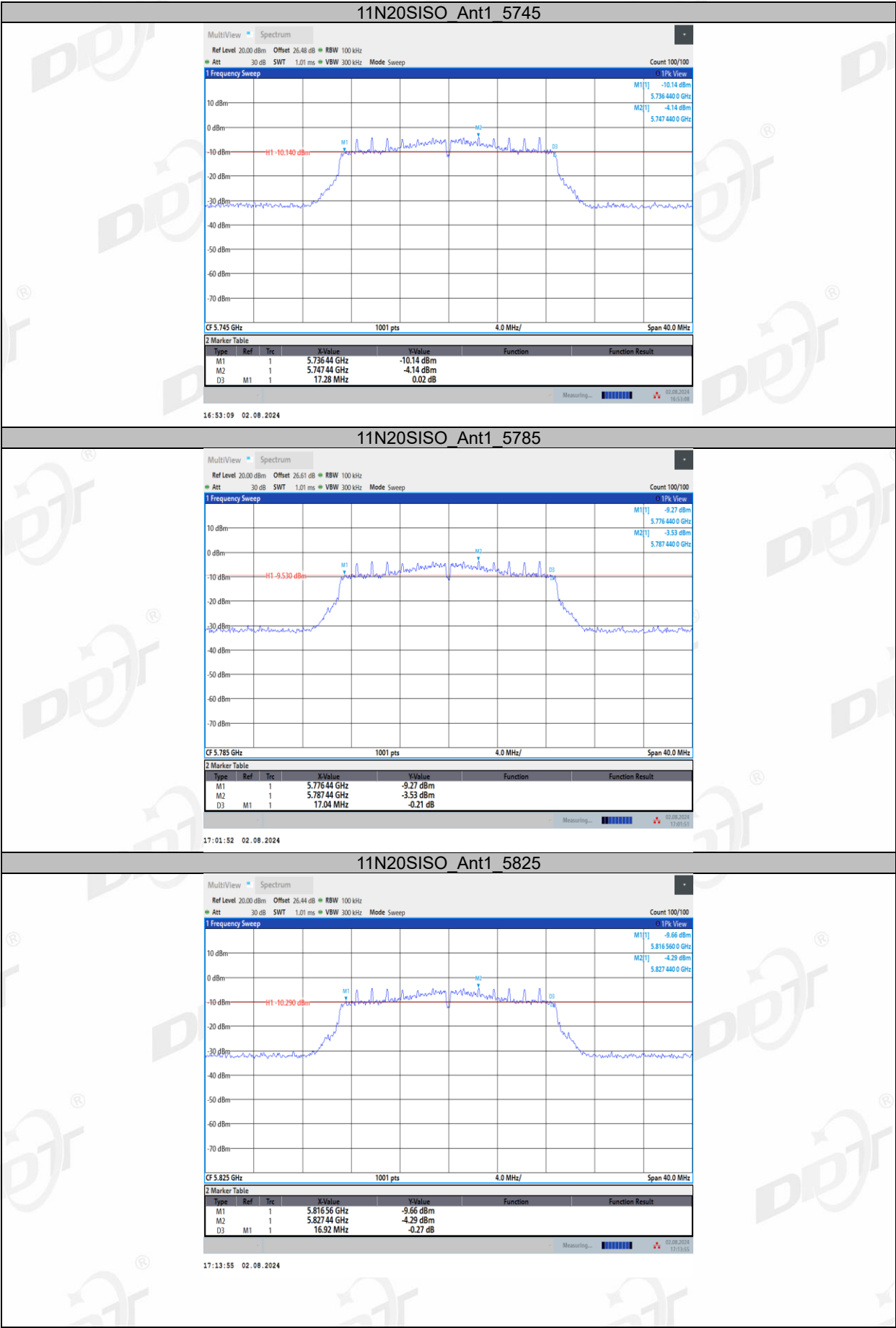
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4. Test result

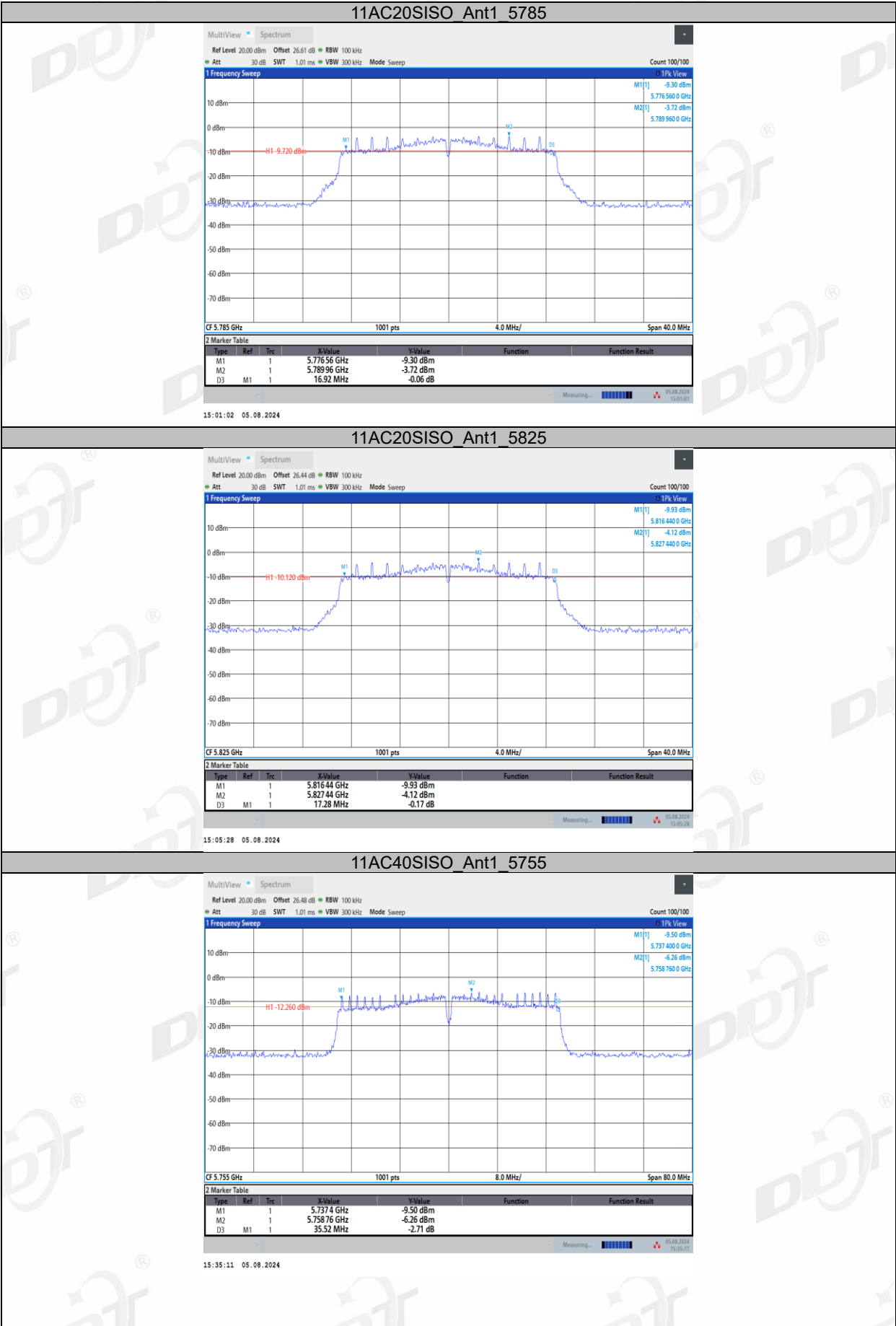
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
		5785	16.04	5777.08	5793.12	0.5	PASS
		5825	16.32	5816.80	5833.12	0.5	PASS
11N20SISO	Ant1	5745	17.28	5736.44	5753.72	0.5	PASS
		5785	17.04	5776.44	5793.48	0.5	PASS
		5825	16.92	5816.56	5833.48	0.5	PASS
11N40SISO	Ant1	5755	35.52	5737.40	5772.92	0.5	PASS
		5795	35.20	5777.40	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	17.16	5736.56	5753.72	0.5	PASS
		5785	16.92	5776.56	5793.48	0.5	PASS
		5825	17.28	5816.44	5833.72	0.5	PASS
11AC40SISO	Ant1	5755	35.52	5737.40	5772.92	0.5	PASS
		5795	35.20	5777.40	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

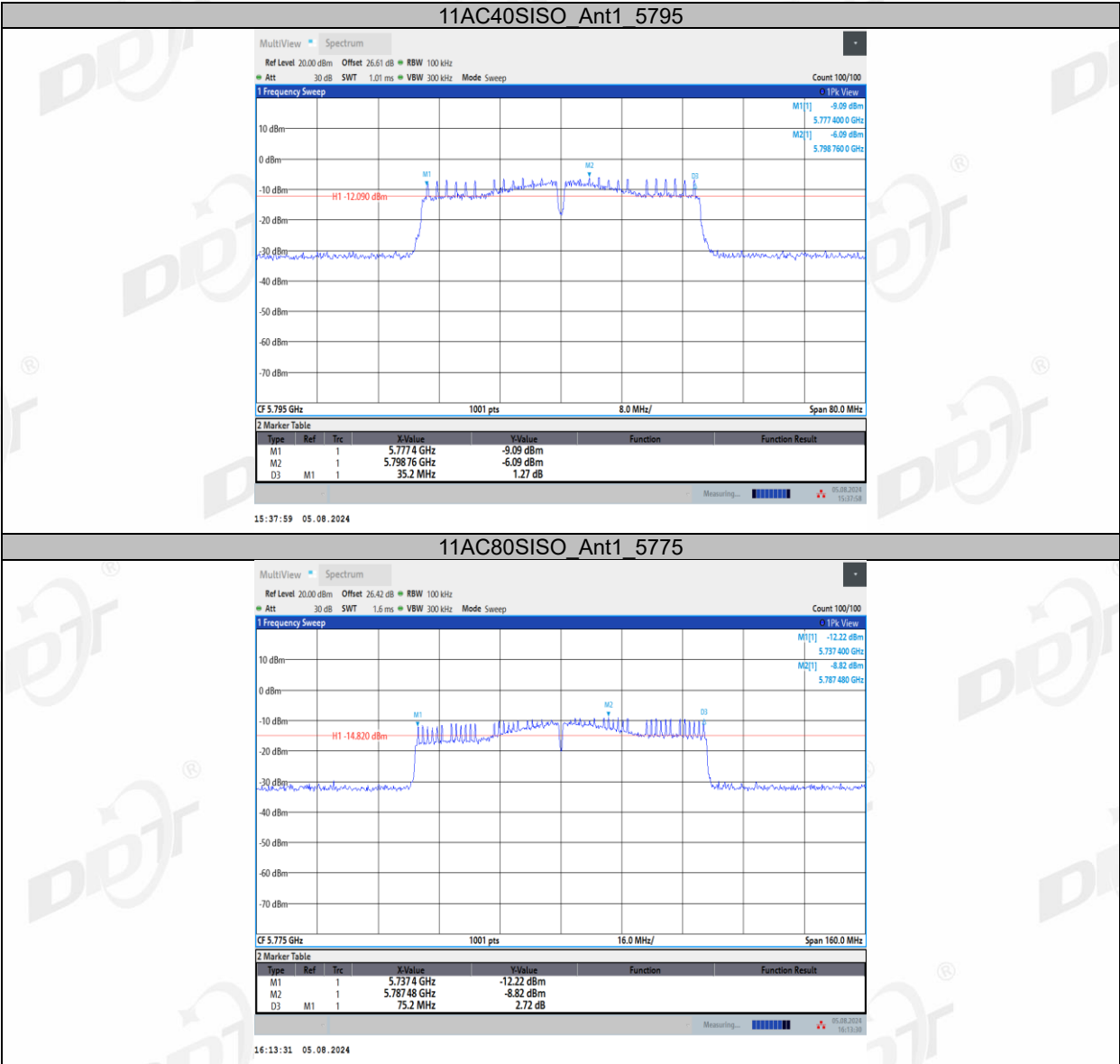
5.5. Test graphs





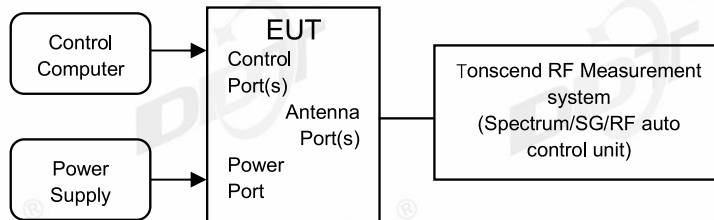






6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

- (2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

6.4. Test result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	17.436	5171.2246	5188.6605	---	---
		5200	17.412	5191.2725	5208.6845	---	---
		5240	17.427	5231.2075	5248.6346	---	---
		5260	17.433	5251.2334	5268.6663	---	---
		5280	17.485	5271.1972	5288.6818	---	---
		5320	17.454	5311.2327	5328.6862	---	---
		5500	17.426	5491.1676	5508.5935	---	---
		5580	17.477	5571.1748	5588.6521	---	---
		5700	17.485	5691.2216	5708.7070	---	---
		5720	17.519	5711.2184	5728.7376	---	---
		5720_UNII-2C	13.782	5711.2184	5725	---	---
		5720_UNII-3	3.738	5725	5728.7376	---	---
		5745	17.493	5736.2210	5753.7142	---	---
		5785	17.472	5776.2154	5793.6874	---	---
		5825	17.542	5816.1929	5833.7351	---	---
11N20SISO	Ant1	5180	18.36	5170.8163	5189.1759	---	---
		5200	18.413	5190.7884	5209.2015	---	---
		5240	18.386	5230.7977	5249.1836	---	---
		5260	18.447	5250.7693	5269.2159	---	---
		5280	18.394	5270.7756	5289.1696	---	---
		5320	18.409	5310.7973	5329.2060	---	---
		5500	18.376	5490.7472	5509.1234	---	---
		5580	18.419	5570.7520	5589.1706	---	---
		5700	18.398	5690.7828	5709.1805	---	---
		5720	18.454	5710.7765	5729.2301	---	---
		5720_UNII-2C	14.224	5710.7765	5725	---	---
		5720_UNII-3	4.23	5725	5729.2301	---	---
		5745	18.412	5735.7782	5754.1899	---	---
		5785	18.343	5775.8344	5794.1774	---	---
		5825	18.416	5815.8119	5834.2275	---	---
11N40SISO	Ant1	5190	36.403	5171.8730	5208.2758	---	---
		5230	36.351	5211.8472	5248.1979	---	---
		5270	36.362	5251.8274	5288.1892	---	---
		5310	36.36	5291.8558	5328.2153	---	---
		5510	36.39	5491.7024	5528.0921	---	---
		5550	36.324	5531.7868	5568.1108	---	---
		5670	36.338	5651.8834	5688.2210	---	---

		5755	36.383	5736.9157	5773.2983	---	---
		5795	36.313	5776.8631	5813.1761	---	---
11AC20SISO	Ant1	5180	18.391	5170.8055	5189.1967	---	---
		5200	18.405	5190.7828	5209.1876	---	---
		5240	18.399	5230.7827	5249.1815	---	---
		5260	18.379	5250.8101	5269.1892	---	---
		5280	18.435	5270.7483	5289.1832	---	---
		5320	18.406	5310.7648	5329.1706	---	---
		5500	18.361	5490.7401	5509.1016	---	---
		5580	18.412	5570.7483	5589.1606	---	---
		5700	18.429	5690.7518	5709.1807	---	---
		5720	18.436	5710.7970	5729.2329	---	---
		5720_UNII-2C	14.203	5710.7970	5725	---	---
		5720_UNII-3	4.233	5725	5729.2329	---	---
		5745	18.405	5735.7910	5754.1961	---	---
		5785	18.47	5775.7510	5794.2209	---	---
		5825	18.403	5815.7777	5834.1809	---	---
11AC40SISO	Ant1	5190	36.315	5171.8888	5208.2038	---	---
		5230	36.33	5211.8350	5248.1654	---	---
		5270	36.314	5251.8258	5288.1398	---	---
		5310	36.335	5291.8288	5328.1640	---	---
		5510	36.345	5491.7214	5528.0664	---	---
		5550	36.361	5531.7585	5568.1200	---	---
		5670	36.264	5651.9486	5688.2130	---	---
		5710	36.445	5691.7980	5728.2435	---	---
		5710_UNII-2C	33.202	5691.7980	5725	---	---
		5710_UNII-3	3.243	5725	5728.2435	---	---
		5755	36.354	5736.9015	5773.2557	---	---
		5795	36.393	5776.8385	5813.2314	---	---
11AC80SISO	Ant1	5210	75.386	5172.4255	5247.8113	---	---
		5290	75.424	5252.3677	5327.7917	---	---
		5530	75.614	5491.9924	5567.6066	---	---
		5610	75.608	5572.1037	5647.7112	---	---
		5690	75.375	5652.5161	5727.8907	---	---
		5690_UNII-2C	72.484	5652.5161	5725	---	---
		5690_UNII-3	2.891	5725	5727.8907	---	---
		5775	75.393	5737.4992	5812.8925	---	---