

FCC TEST REPORT

Product Name: Smart Payment Terminal
Trade Mark: PAX
Model No.: A6630
Report Number: 24071812763RFC-4
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: V5PA6630
Test Result: PASS
Date of Issue: December 19, 2024

Prepared for:

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Prepared by:

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UTTR-RF-FCCPART15.407-V1.2

Version

Version No.	Date	Description
V1.0	December 19, 2024	Original



Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Payment Terminal		
Model No.:	A6630		
Trade Mark:	PAX		
EUT Supports Function: (Provided by the customer)	UTRA Bands:	WCDMA Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 12/ Band 13/ Band 17	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
RNSS Band:	1559 MHz to 1610 MHz		
NFC:	13.553 MHz to 13.567 MHz		
Sample Received Date:	July 11, 2024		
Sample Tested Date:	August 11, 2024 to October 21, 2024		
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

Adapter	
Model No.:	GLH-PD18W-U
Input:	100-240 V~50/60 Hz 0.5 A
Output:	5.0 V $\equiv$ 3.0A/ 9.0 V $\equiv$ 2.0A / 12.0 V $\equiv$ 1.5A

Cable	
Connector:	USB Cable
Cable Type:	Unshielded without ferrite
Length:	1.0 Meter

Battery	
Model No.:	M0152A
Battery Type:	Rechargeable Li-ion Battery
Rated Voltage:	3.85 Vdc
Rated Capacity:	6000 mAh

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1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)				
	5250 MHz to 5350 MHz (U-NII-2A)				
	5470 MHz to 5725 MHz (U-NII-2C)				
	5 725 MHz to 5 850 MHz (U-NII-3)				
Frequency Ranges:	5180 MHz to 5240 MHz				
	5260 MHz to 5320 MHz				
	5500 MHz to 5720 MHz				
	5745 MHz to 5825 MHz				
Support Standards:	IEEE 802.11a/n/ac				
TPC Function:	Not Support				
DFS Operational mode:	Slave without radar Interference detection function				
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz				
	IEEE 802.11n-HT40/ac-VHT40: 40 MHz				
	IEEE 802.11ac-VHT80: 80 MHz				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n-HT20: Up to MCS7				
	IEEE 802.11n-HT40: Up to MCS7				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40: Up to MCS9				
	IEEE 802.11ac-VHT80: Up to MCS9				
Number of Channels:	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80				
	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11acVHT80				
	5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n-HT20/ac-VHT20 5 for IEEE 802.11n-HT40/ac-VHT40 2 for IEEE 802.11ac-VHT80				
	5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type:	PIFA Antenna				
Antenna Gain: (Provided by the customer)	5150 - 5250 MHz	2.38 dBi			
	5250 - 5350 MHz	2.38 dBi			
	5470 - 5725 MHz	1.29 dBi			
	5725 - 5850 MHz	1.41 dBi			
Maximum conducted output power (dBm):		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	11.97	11.82	13.37	13.30
	IEEE 802.11n-HT20:	10.79	10.78	12.08	12.04
	IEEE 802.11n-HT40:	10.79	10.55	12.05	12.01

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	IEEE 802.11ac-VHT20:	10.91	10.50	12.06	12.06
	IEEE 802.11ac-VHT40:	10.70	10.60	12.01	11.99
	IEEE 802.11ac-VHT80:	10.34	10.31	11.42	11.44
Normal Test Voltage:		3.85 Vdc			



1.4 OTHER INFORMATION

Operation Frequency Each of Channel				
	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
IEEE 802.11a, IEEE 802.11n-HT20, IEEE 802.11ac-VHT20	f = 5000 + 5k, k = 32 + 4n			f = 5000 + 5k, k = 145 + 4n
	n = 1,..., 4	n = 5,..., 8	n = 17,..., 27	n = 1,..., 5
IEEE 802.11n-HT40, IEEE 802.11ac-VHT40	f = 5000 + 5k, k = 30 + 8n			f = 5000 + 5k, k = 143 + 8n
	n = 1, 2	n = 1,..., 5	n = 9,..., 13	n = 1, 2
IEEE 802.11ac-VHT80	f = 5000 + 5k, k = 26 + 16n			f = 5000 + 5k, k = 155
	n = 1	n = 1, 2	n = 5, 6	
Note: f is the operating frequency (MHz); k is the operating channel.				

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	FCC ID	Supplied by
Notebook	DELL	Inspiron 5409	N/A	N/A	UnionTrust
Wireless Home Router	SAGEMCOM	FAST5280	N/A	VW3FAST5280	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1 Meter	Applicant

1.6 TEST LOCATION

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1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for

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the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	± 3.2 dB
2	Conducted emission 150kHz-30MHz	± 2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	5.6 GHz: $\pm 6.4 \times 10^{-8}$
12	Transmission Time	± 0.19 %

2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart E Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203 FCC 47 CFR Part 15 Subpart E Section 15.407(a)(1)(2)	N/A	PASS
26 dB emission bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(2)(5)	KDB 789033 D02 v02r01 Section C.1	PASS
6 dB bandwidth	FCC 47 CFR Part 15 Subpart E Section 15.407 (e)	KDB 789033 D02 v02r01 Section C.2	PASS
Maximum conducted output power	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	PASS
Peak Power Spectral Density	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)	KDB 789033 D02 v02r01 Section F	PASS
Radiated Emissions and Band Edge Measurement	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6) FCC 47 CFR Part 15 Subpart C Section 15.209/205	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	PASS
Dynamic Frequency Selection	FCC 47 CFR Part 15 Subpart E Section 15.407 (h)	KDB 905462 D03 Client Without DFS New Rules v01r02	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6) FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013, Section 6.2.	PASS
Disclaimer and Explanations: The declared of product specification and data (e.g., antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

For Dynamic Frequency Selection

Test Case	Result
Channel Availability Check Time	N/A ¹
U-NII Detection Bandwidth	N/A ¹
Channel Closing Transmission Time	PASS
Channel Move Time	PASS
DFS Detection Threshold	N/A ¹
Non- Occupancy Period	N/A ¹
Note: 1) The EUT is slave, NA In this whole report not applicable.	

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	29-Mar-2024	28-Mar-2025
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	30-Oct-2023	29-Oct-2024
☒	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	31-Oct-2023	30-Oct-2024
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	31-Oct-2023	30-Oct-2024
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	30-Oct-2023	29-Oct-2024
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	27-Oct-2023	26-Oct-2024
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	Receiver	R&S	ESR7	101181	27-Oct-2023	26-Oct-2024
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	27-Oct-2023	26-Oct-2024
☒	LISN	R&S	ESH2-Z5	860014/024	27-Oct-2023	26-Oct-2024
☐	LISN	ETS-Lindgren	3816/2SH	00201088	27-Oct-2023	26-Oct-2024
☒	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	29-Mar-2024	28-Mar-2025
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	27-Oct-2023	26-Oct-2024
☐	EXG-B RF Analog Signal Generator	KEYSIGHT	N5171B	MY53051777	27-Oct-2023	26-Oct-2024
☒	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	27-Oct-2023	26-Oct-2024

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage	Relative Humidity (%)
NT/NV	+15 to +35	3.87 Vdc	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
AC Power Line Conducted Emission	23.5	50.5	100.1	S202407113893-ZJA01/5	Linson Xie
26 dB emission bandwidth	22.0	46.5	100.0	S202407113893-ZJA04/5	Allen Zhou
Maximum conducted output power					
Peak Power Spectral Density					
6 dB bandwidth					
Dynamic Frequency Selection	25.2	65.9	99.8	S202407113893-ZJA03/5	Jackson Wu
Radiated Emissions and Band Edge Measurement					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 MHz to 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
	5725 MHz to 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	--	Channel 122
		5530 MHz	--	5610 MHz
	5725 MHz to 5850 MHz	Channel 138	Channel 155	--
		5610 MHz/	5775 MHz	--

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a/n/ac	1Tx/1Rx	1. Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Power Setting (Provided by the customer)				
Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
IEEE 802.11a	15	15	15	15
IEEE 802.11n-HT20	14	14	14	14
IEEE 802.11n-HT40	14	14	14	14
IEEE 802.11ac-VHT20	14	14	14	14
IEEE 802.11ac-VHT40	14	14	14	14
IEEE 802.11ac-VHT80	14	14	14	14
Test Software (Provided by the customer)				
Engineering mode: META				

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Figure 2. 30MHz to 1GHz

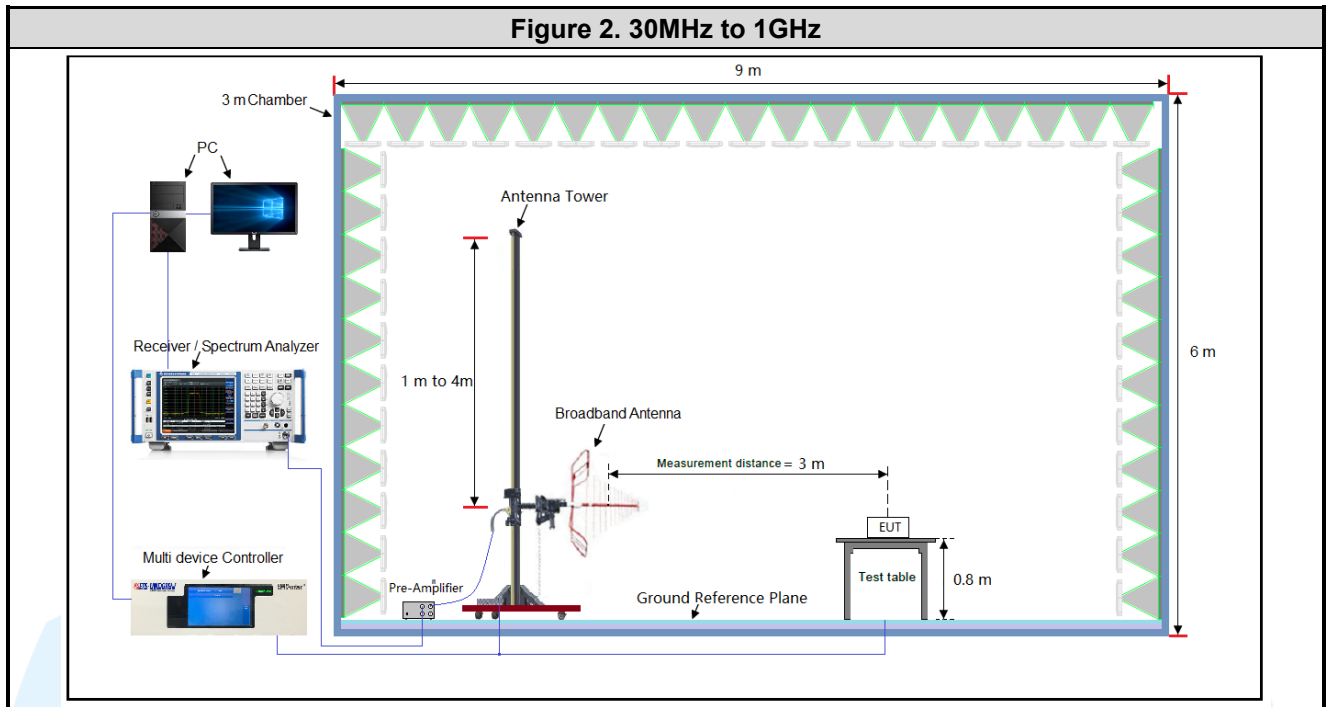
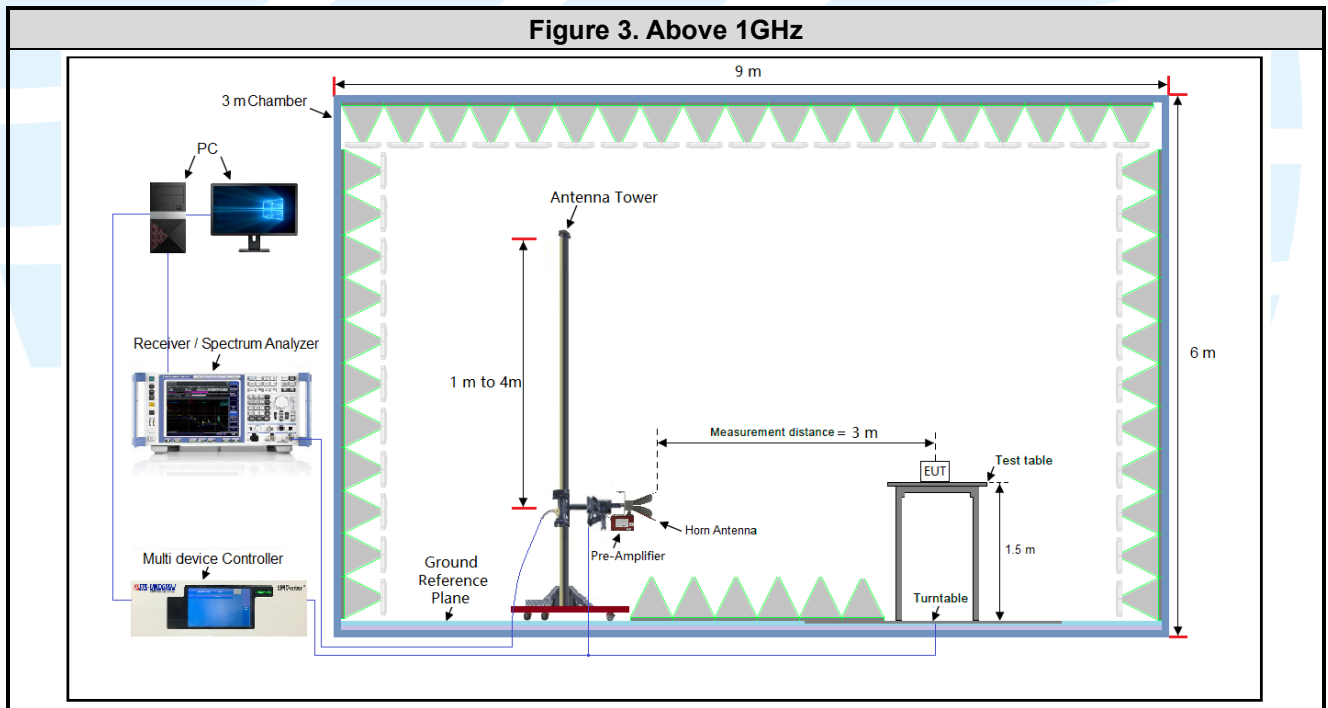
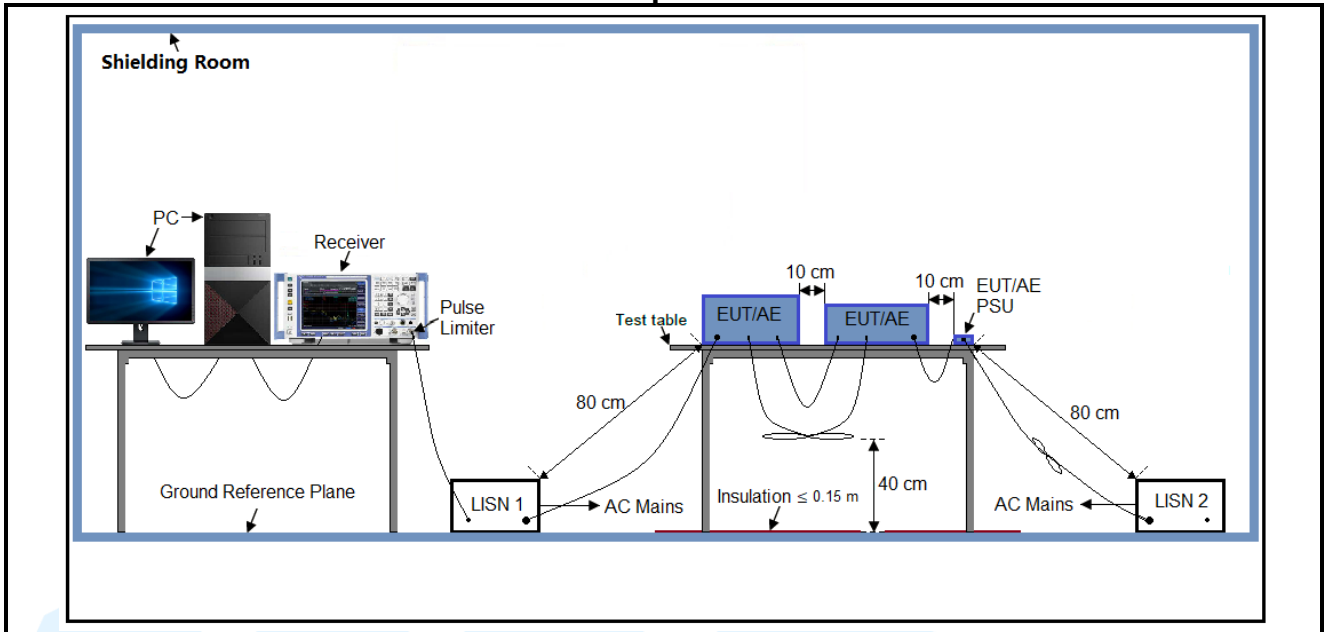


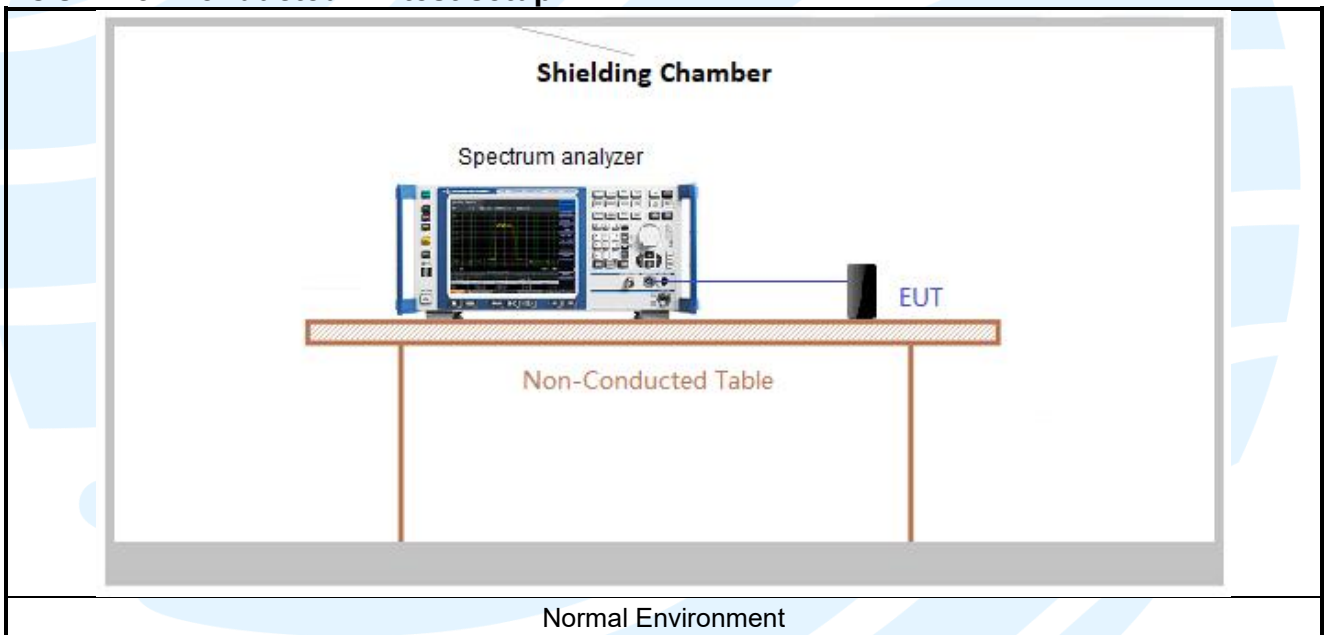
Figure 3. Above 1GHz



4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.85V battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2013 Clause 12.2.

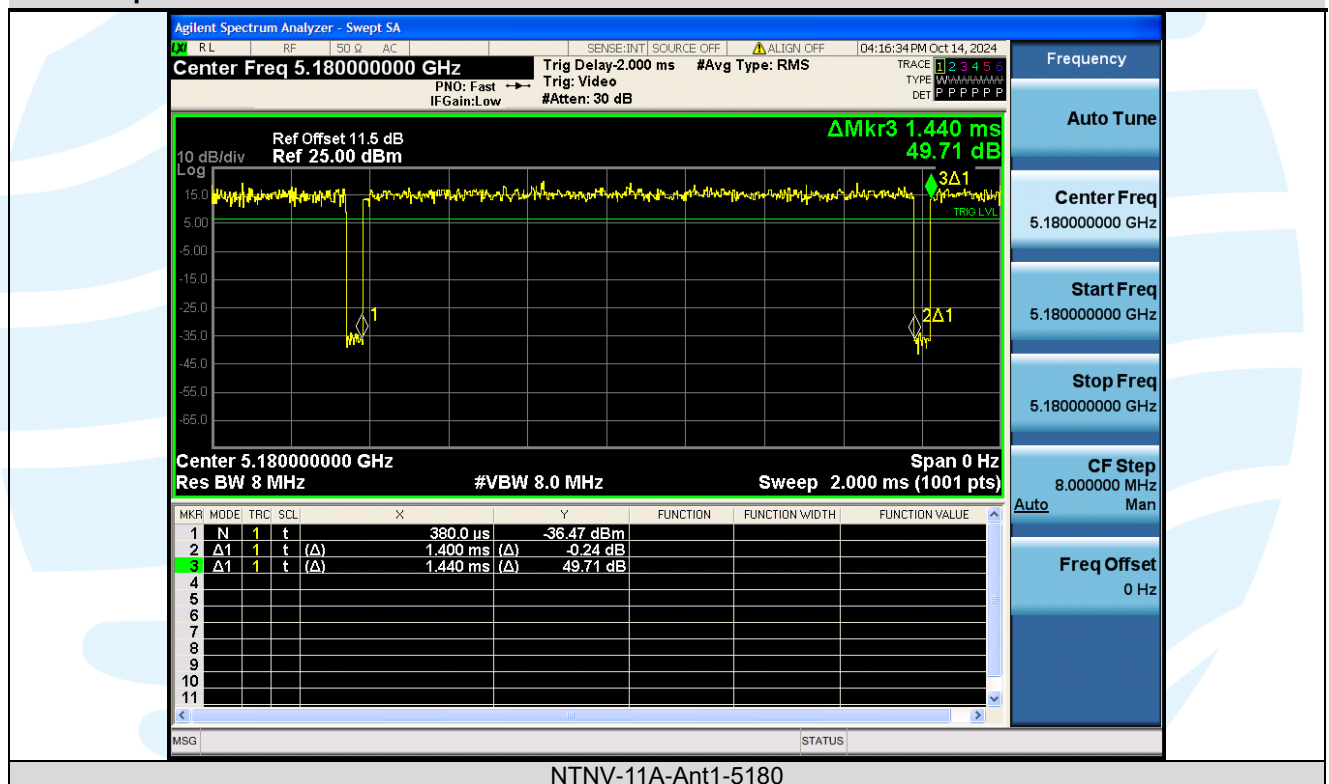
Test Results

Mode	Data Rates	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
IEEE 802.11a	6 Mbps	1.390	1.440	0.97	96.53	0.15	0.72
IEEE 802.11n-HT20	MCS 0	1.290	1.330	0.97	96.99	0.13	0.78
IEEE 802.11n-HT40	MCS 0	0.630	0.680	0.93	92.65	0.33	1.59
IEEE 802.11ac-VHT20	MCS 0	1.290	1.340	0.96	96.27	0.17	0.78
IEEE 802.11ac-VHT40	MCS 0	0.630	0.680	0.93	92.65	0.33	1.59
IEEE 802.11ac-VHT80	MCS 0	1.048	1.080	0.97	97.04	0.13	0.95

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

The test plots as follows



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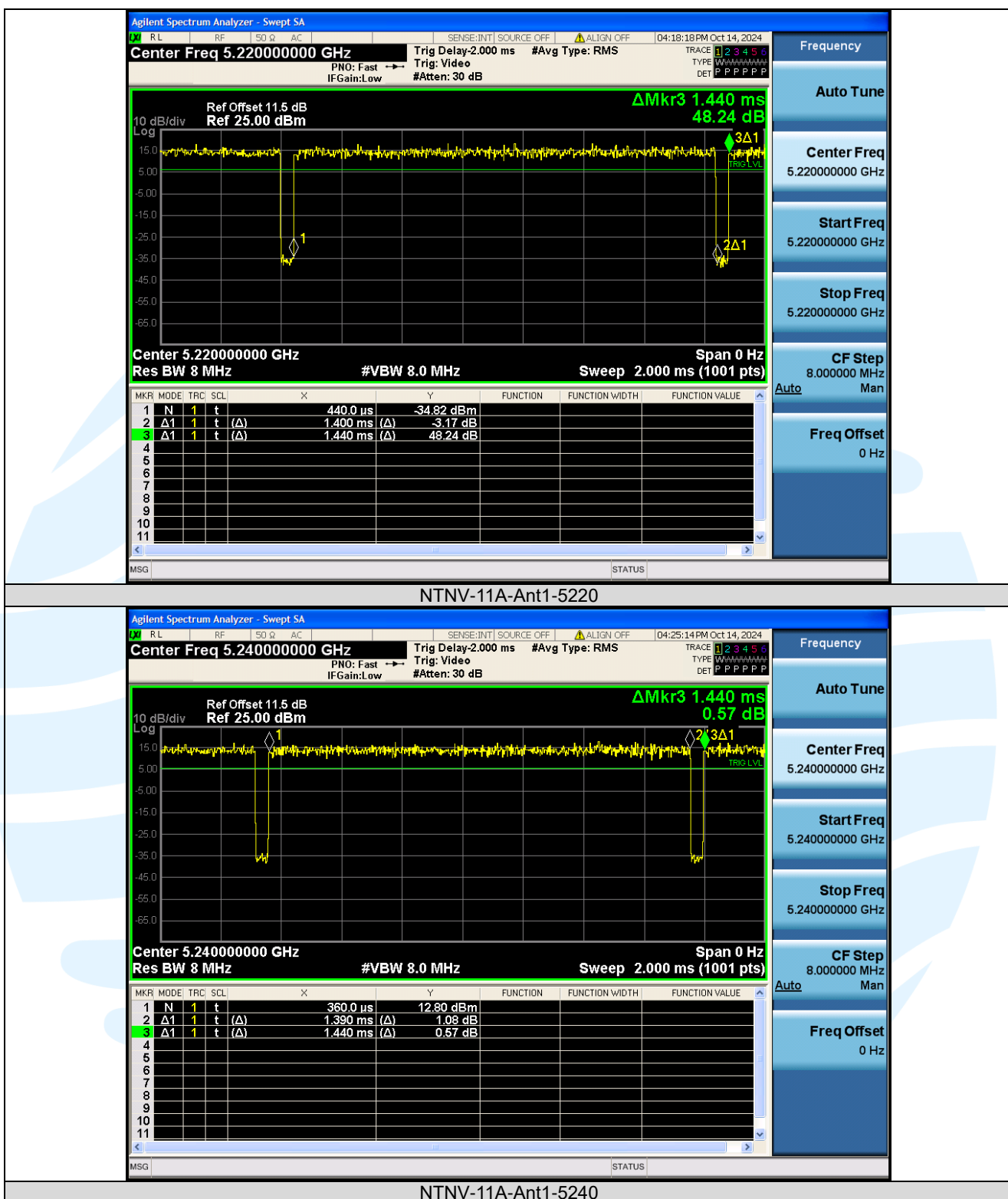
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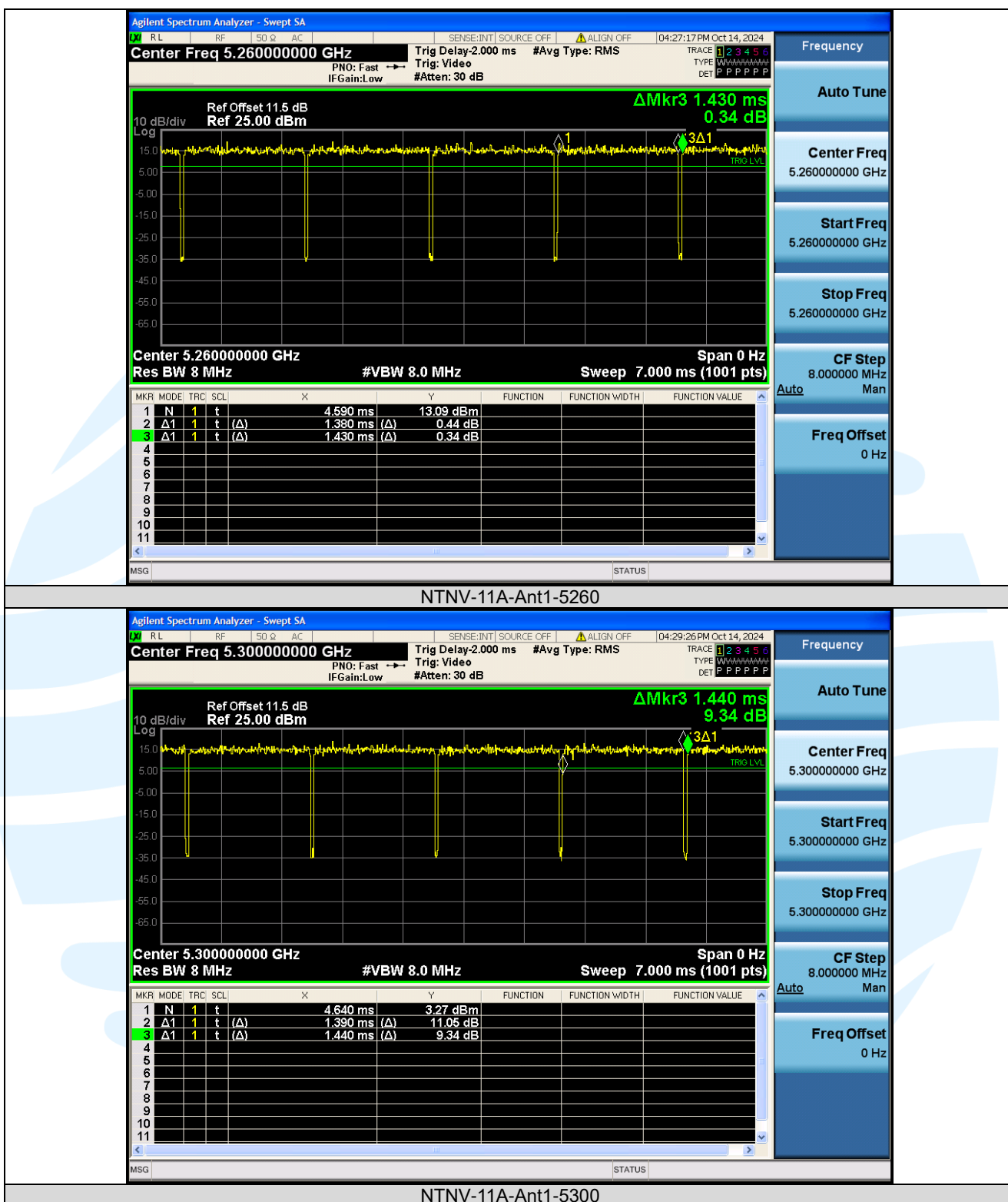
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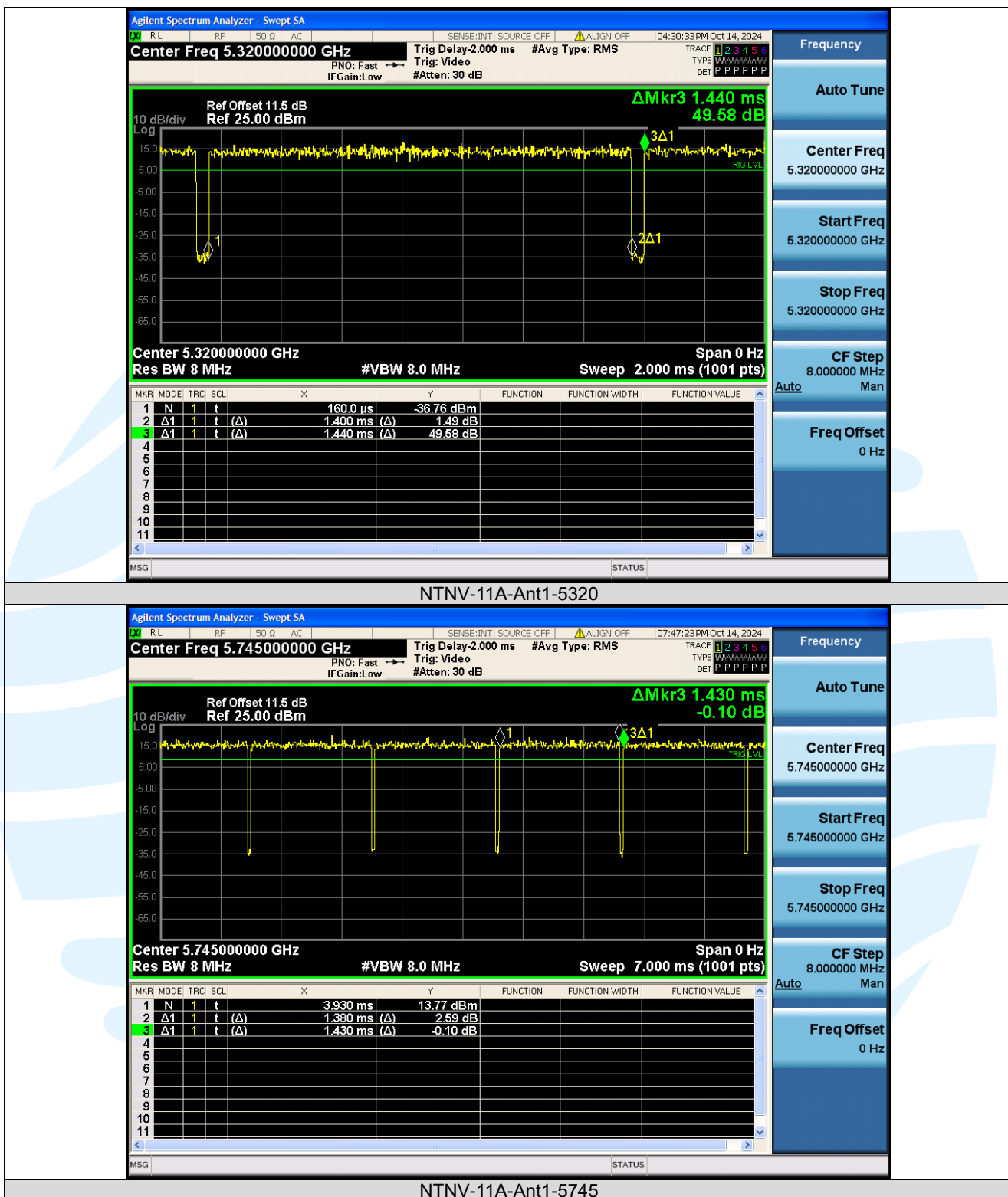
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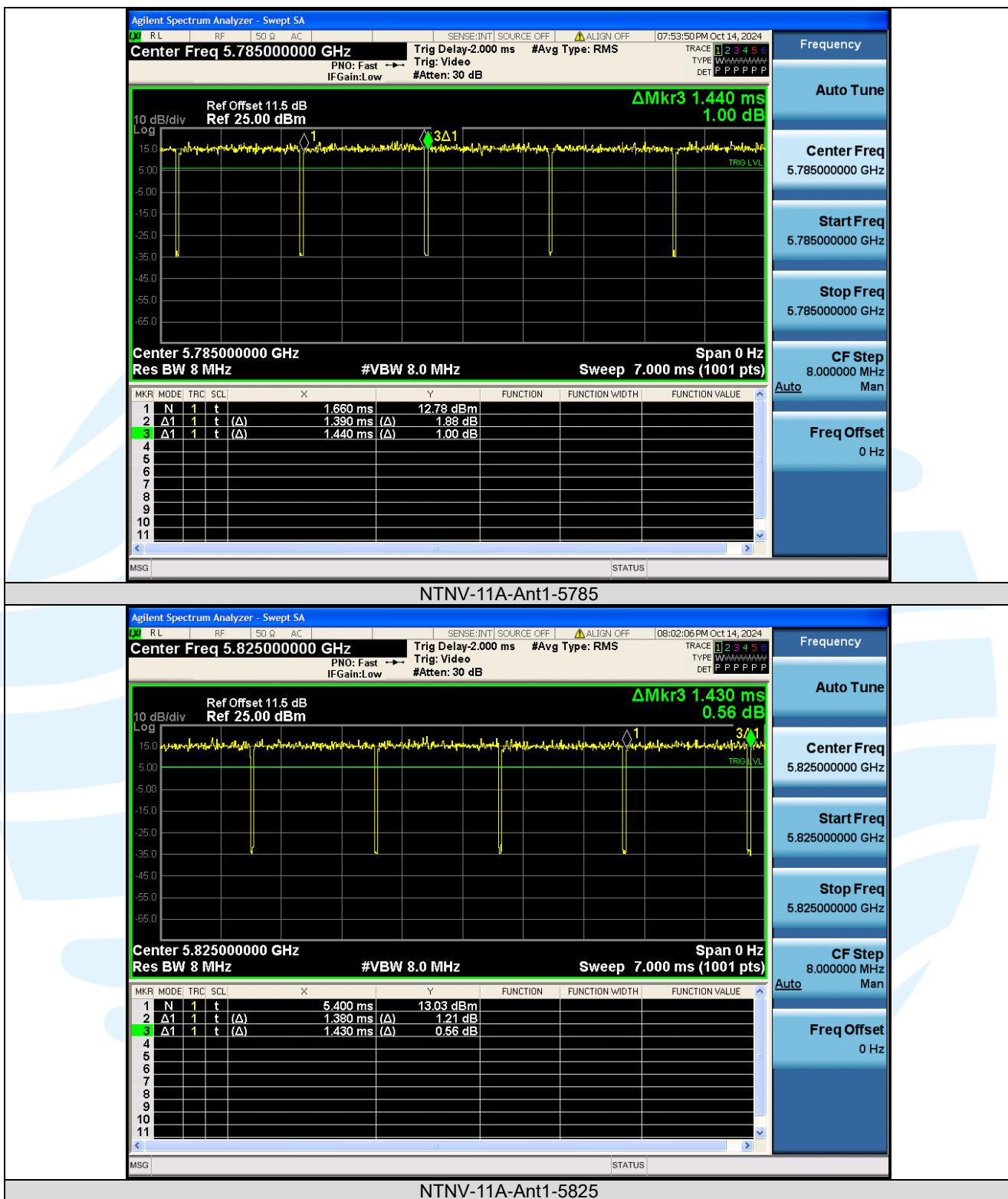
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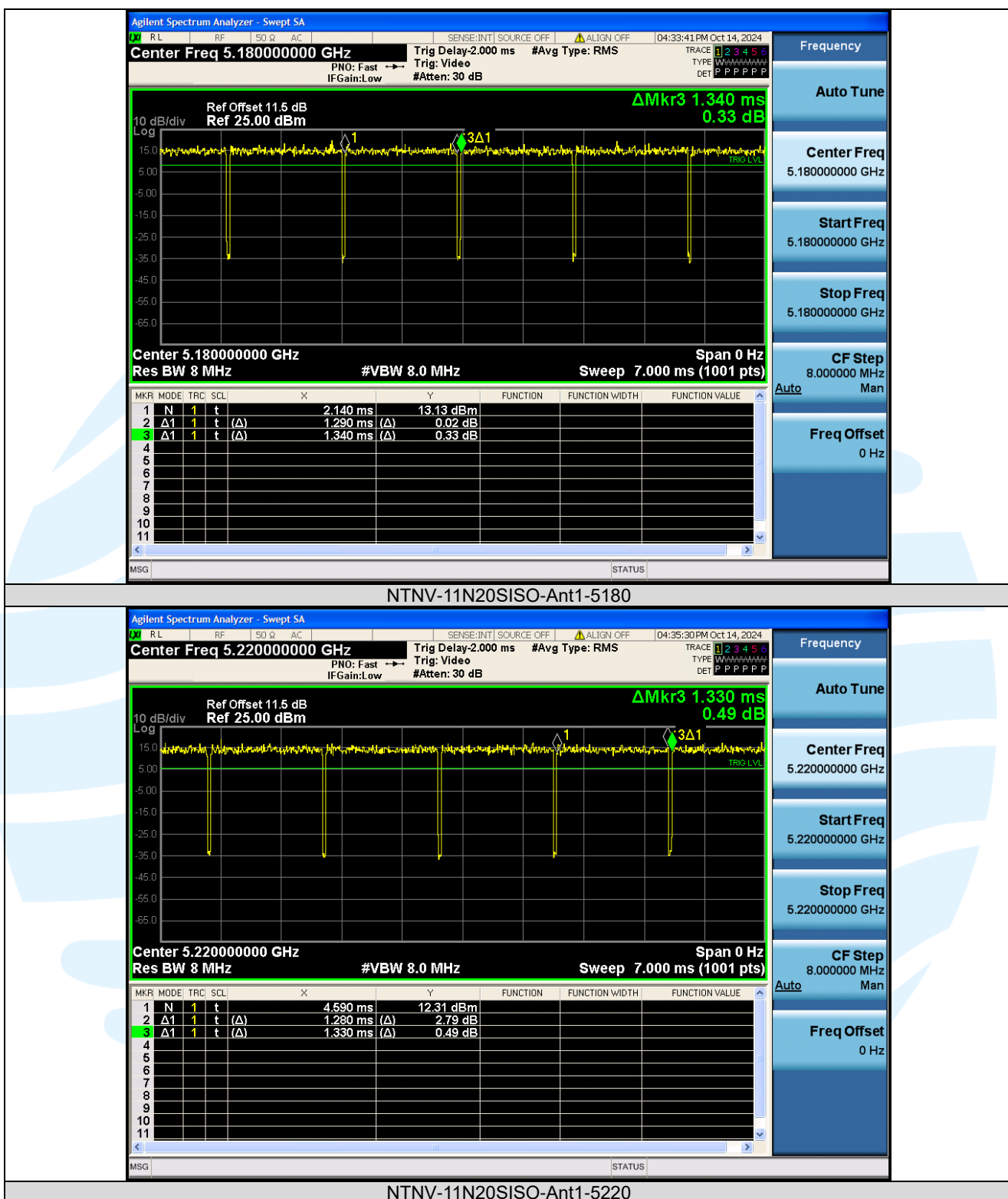
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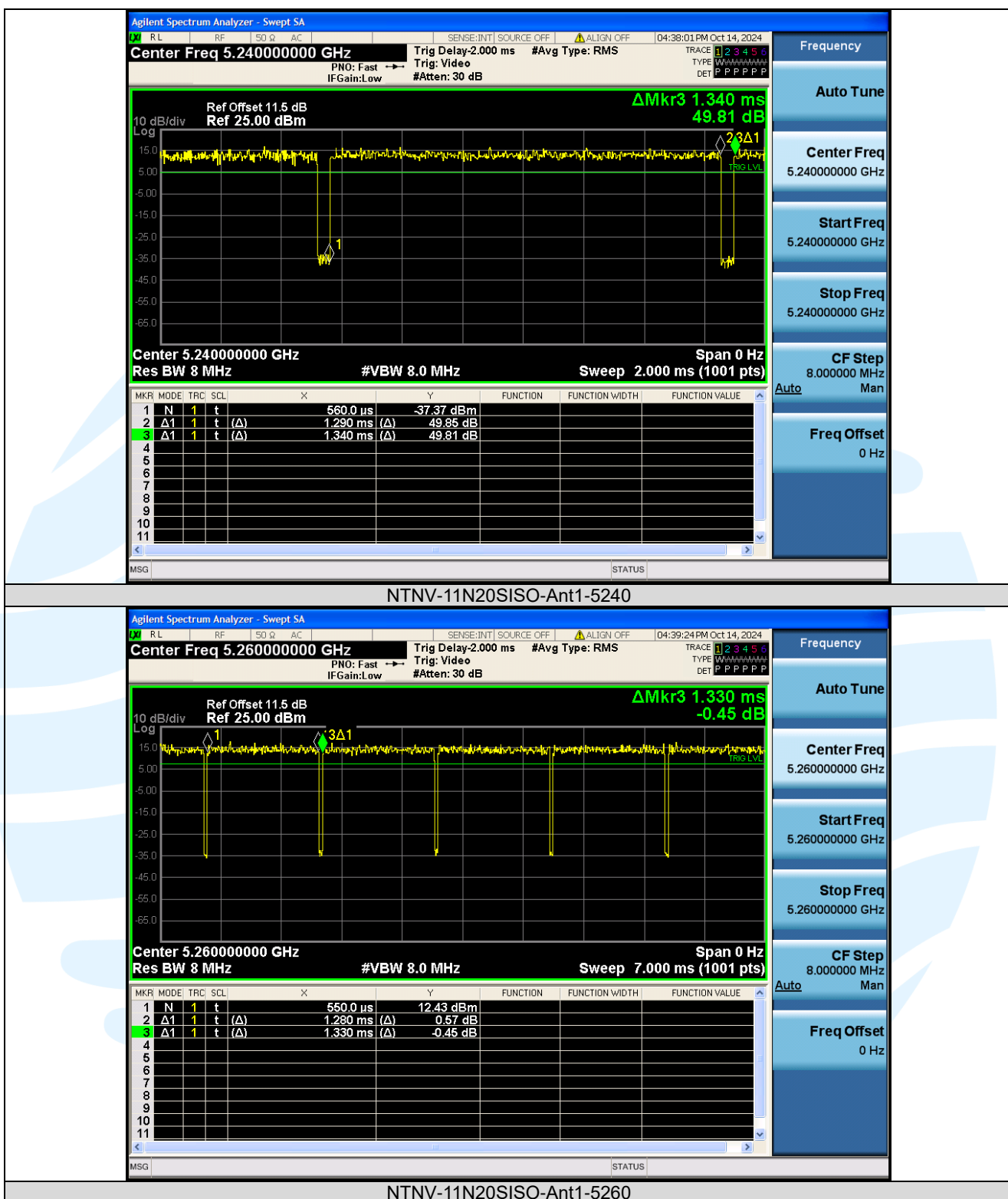
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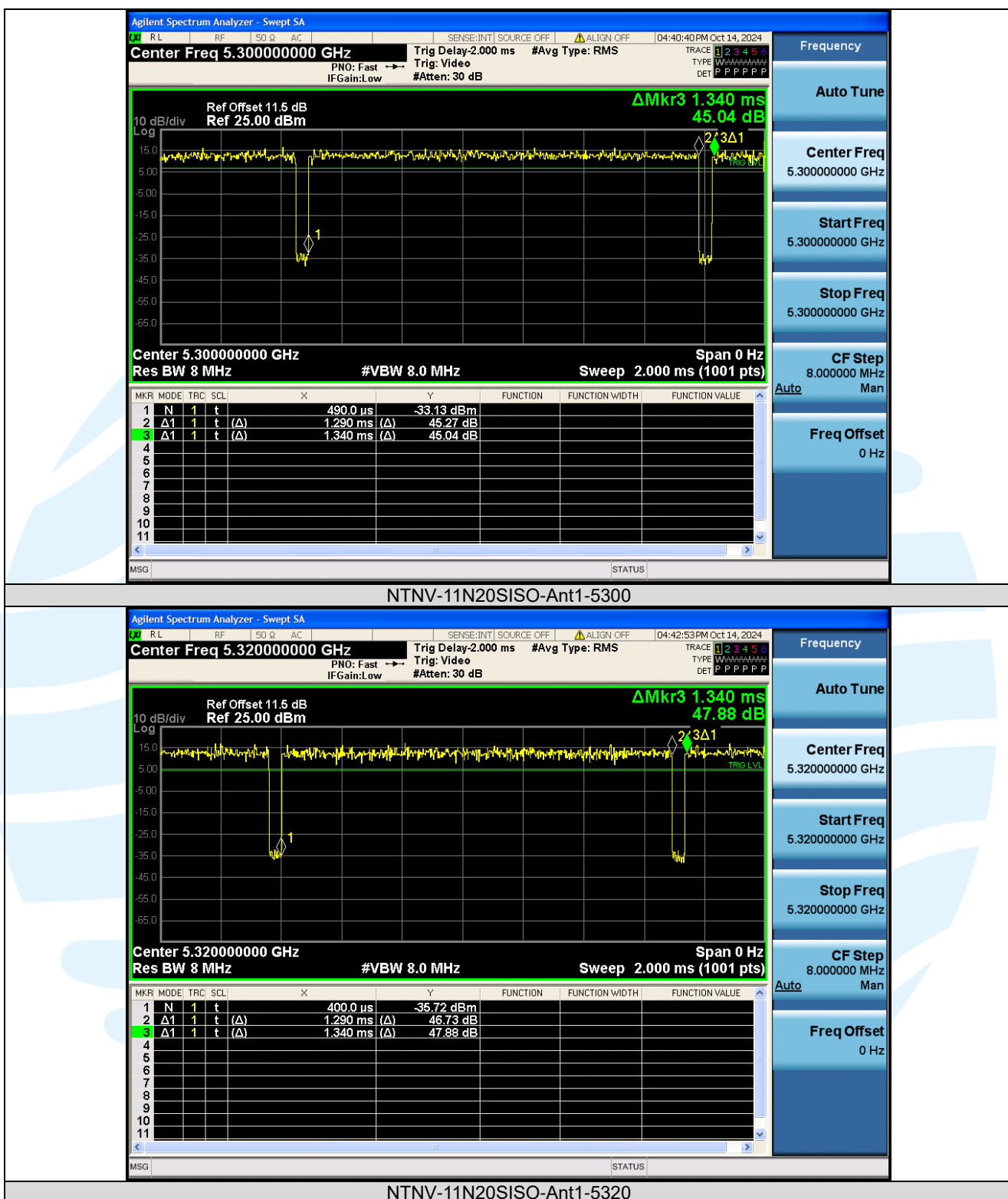
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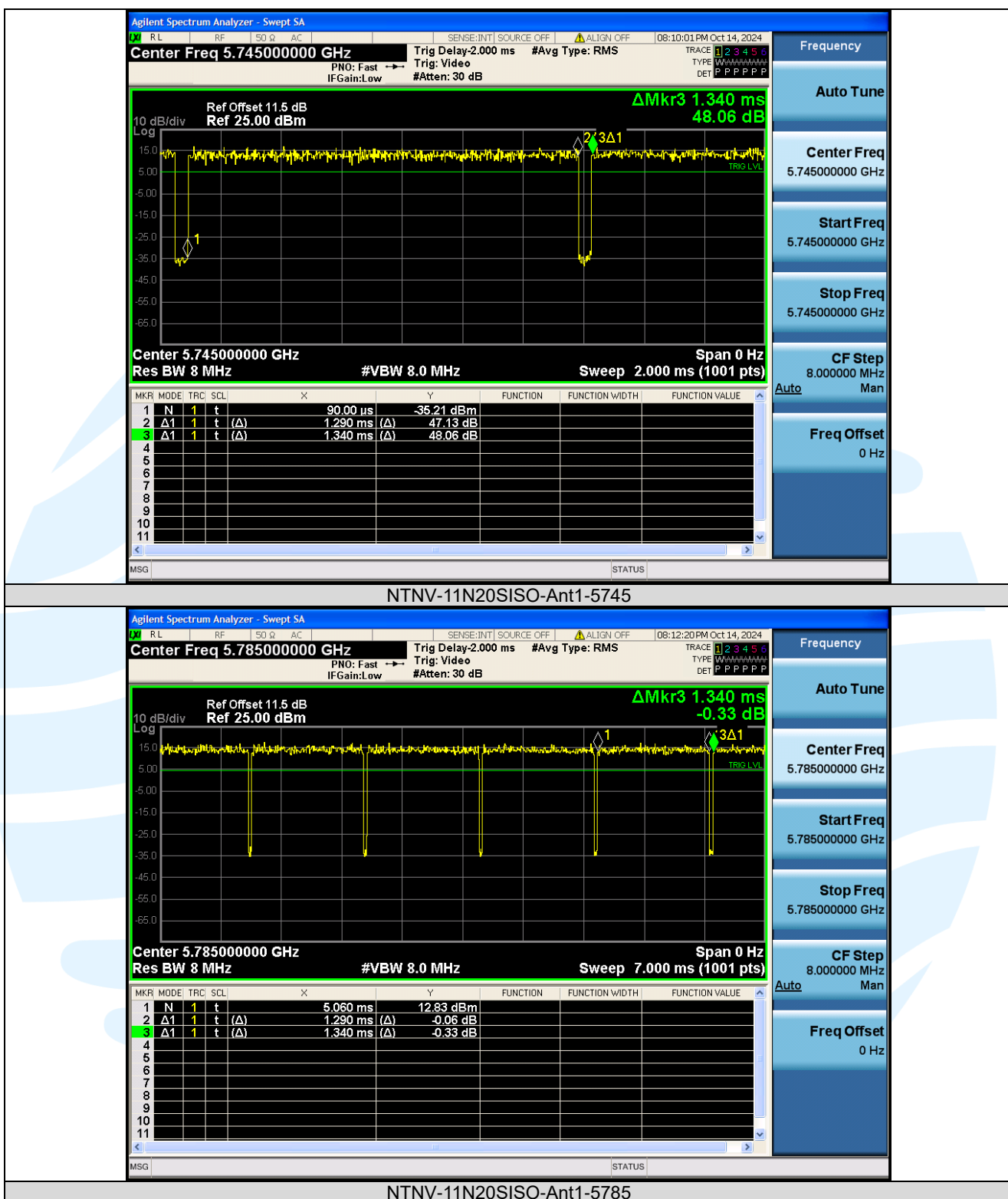
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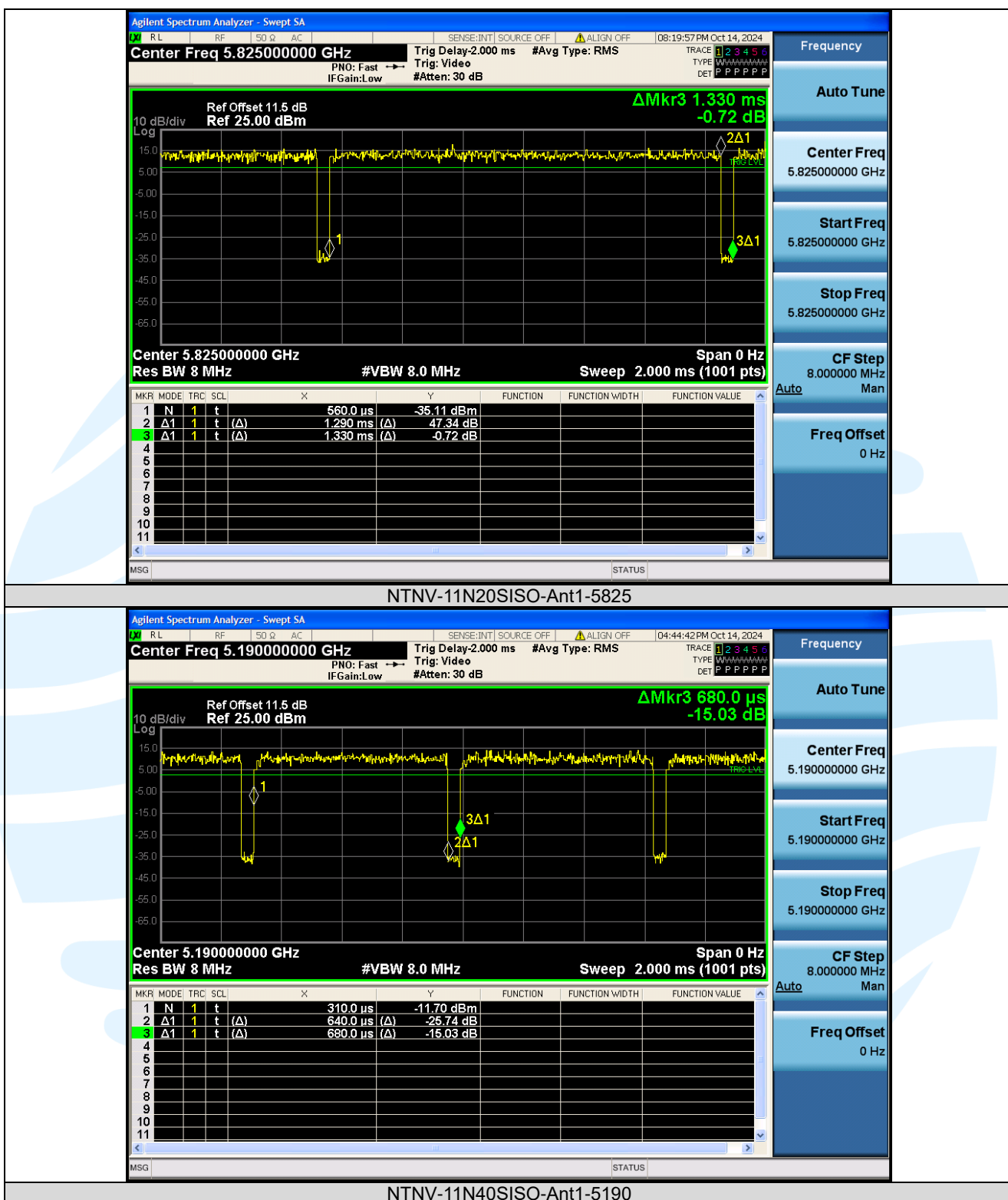
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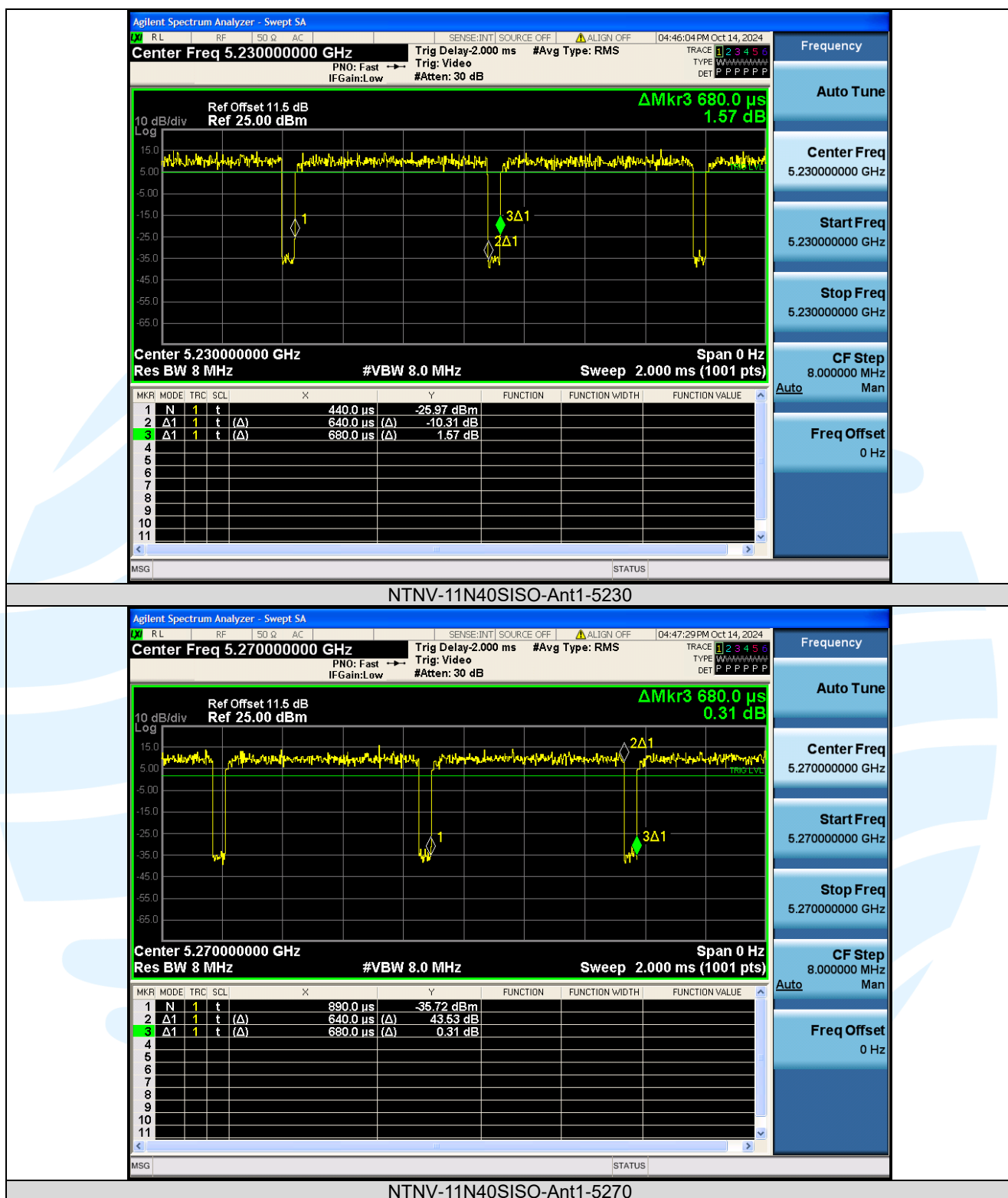
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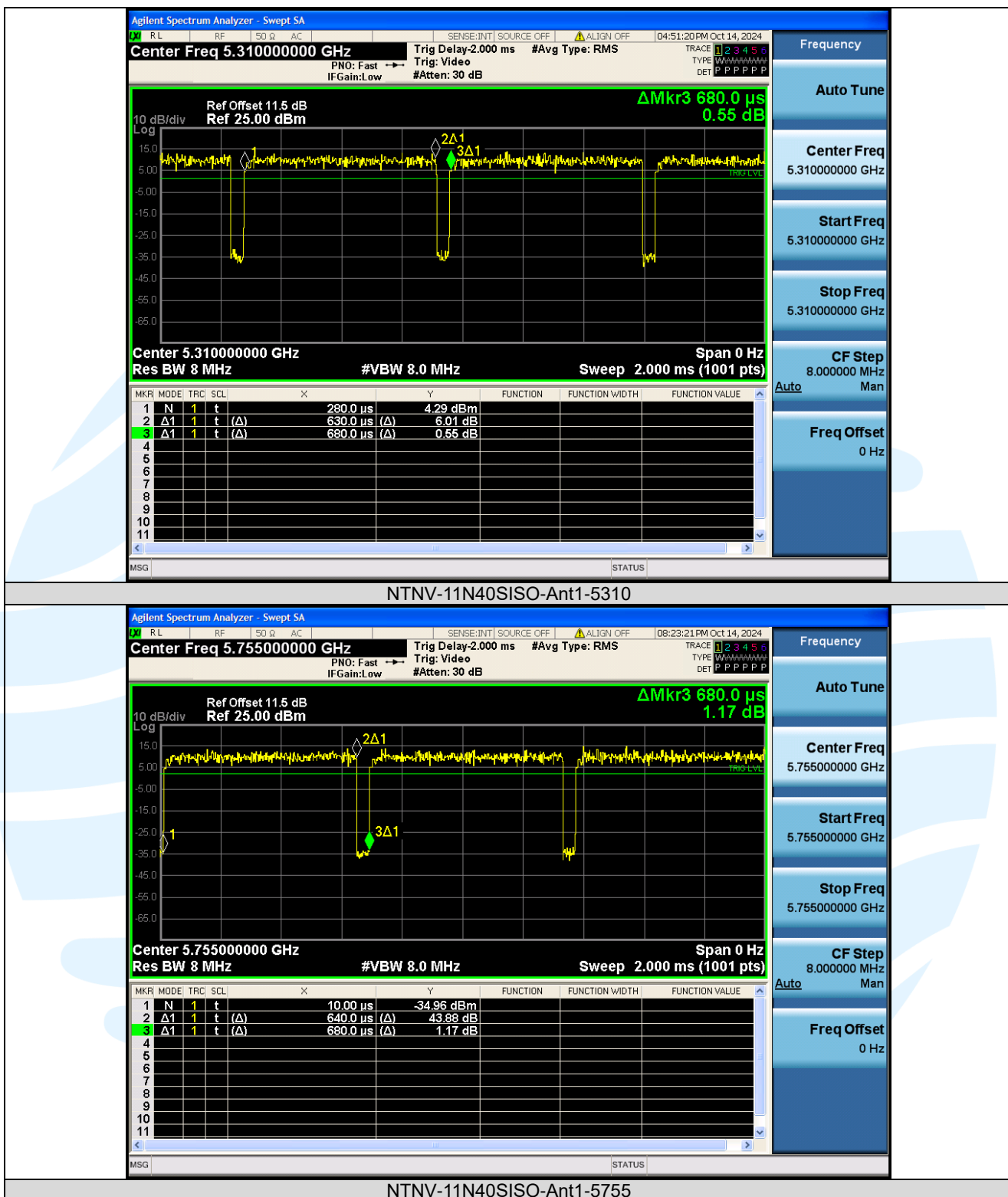
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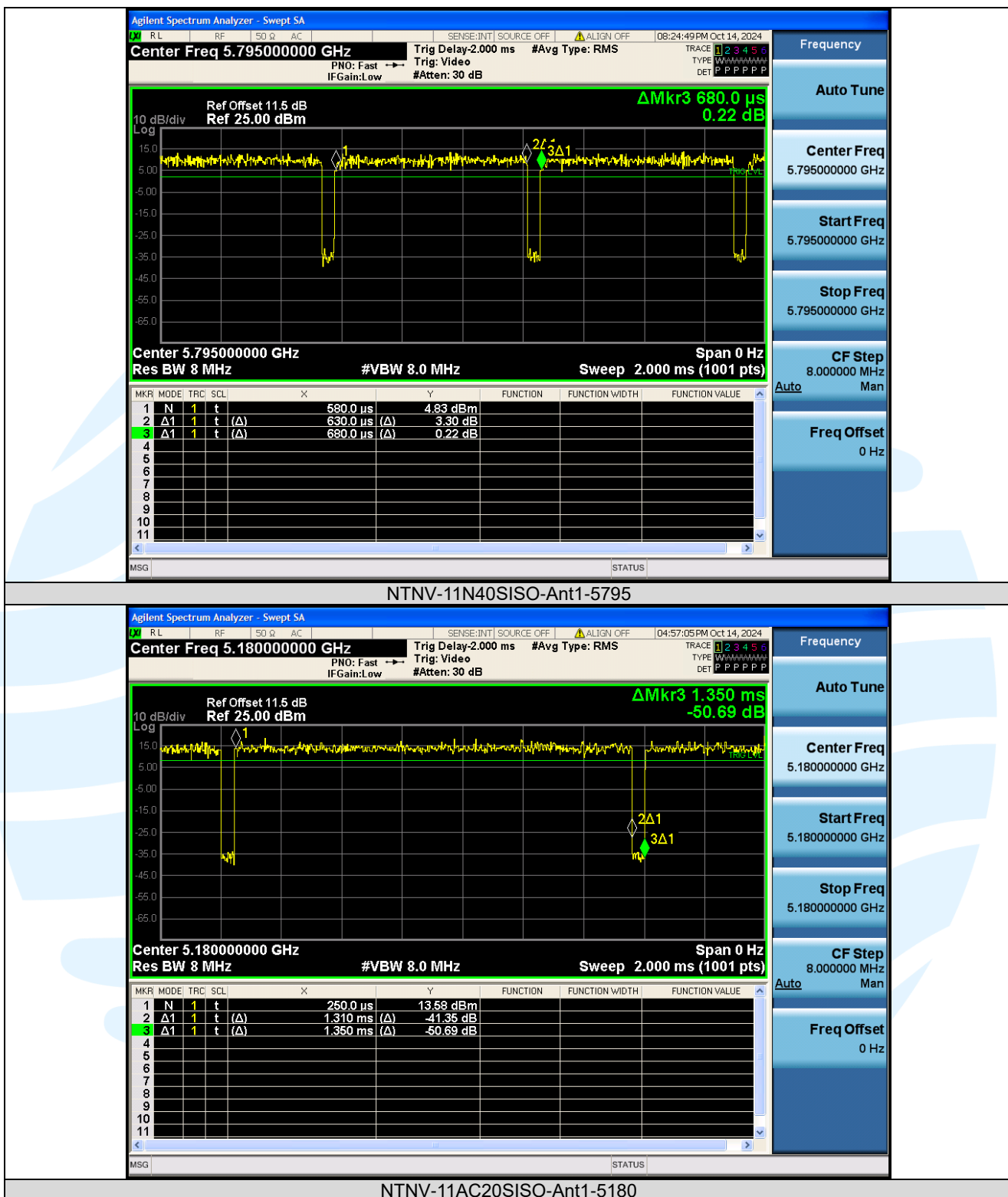
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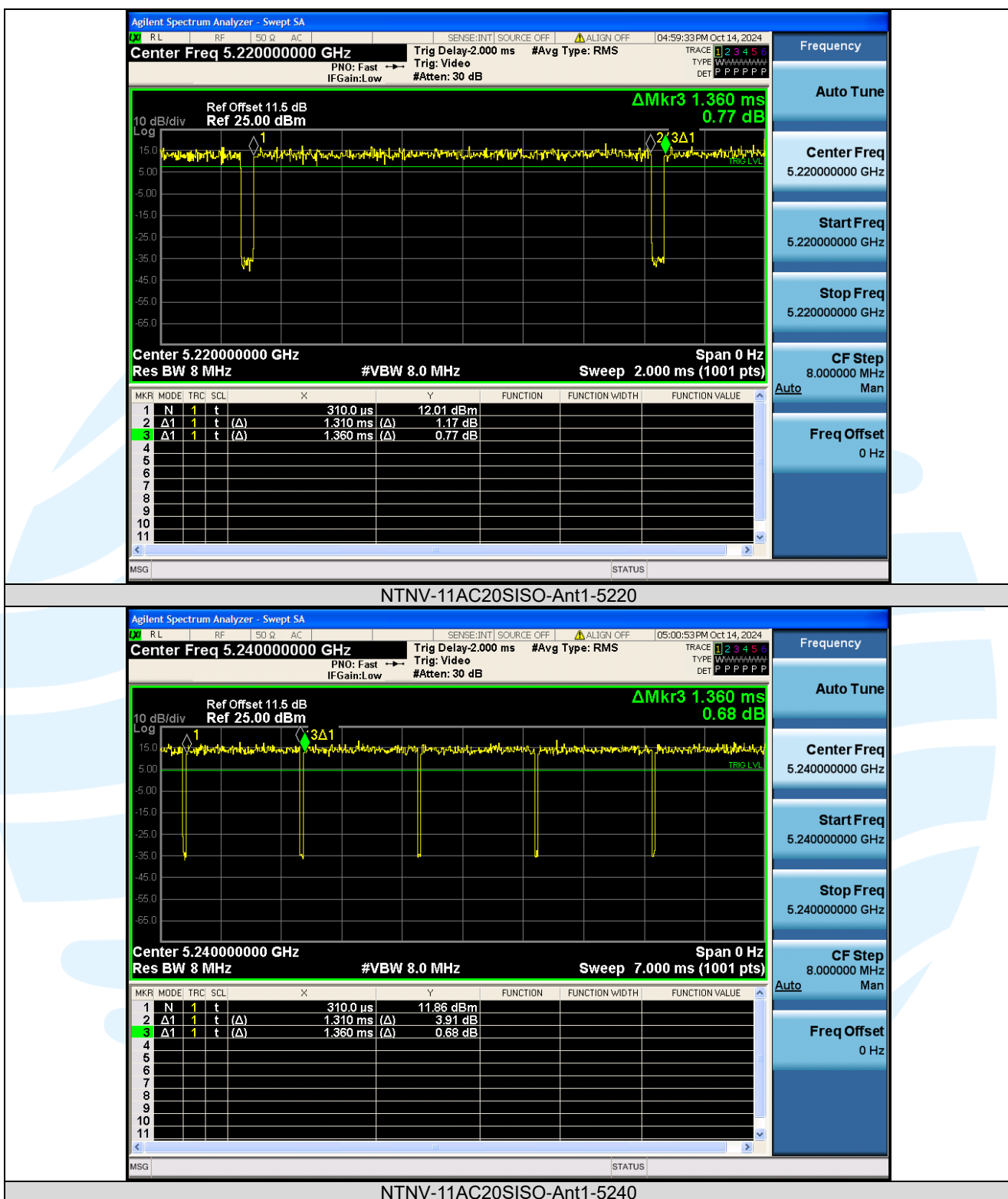
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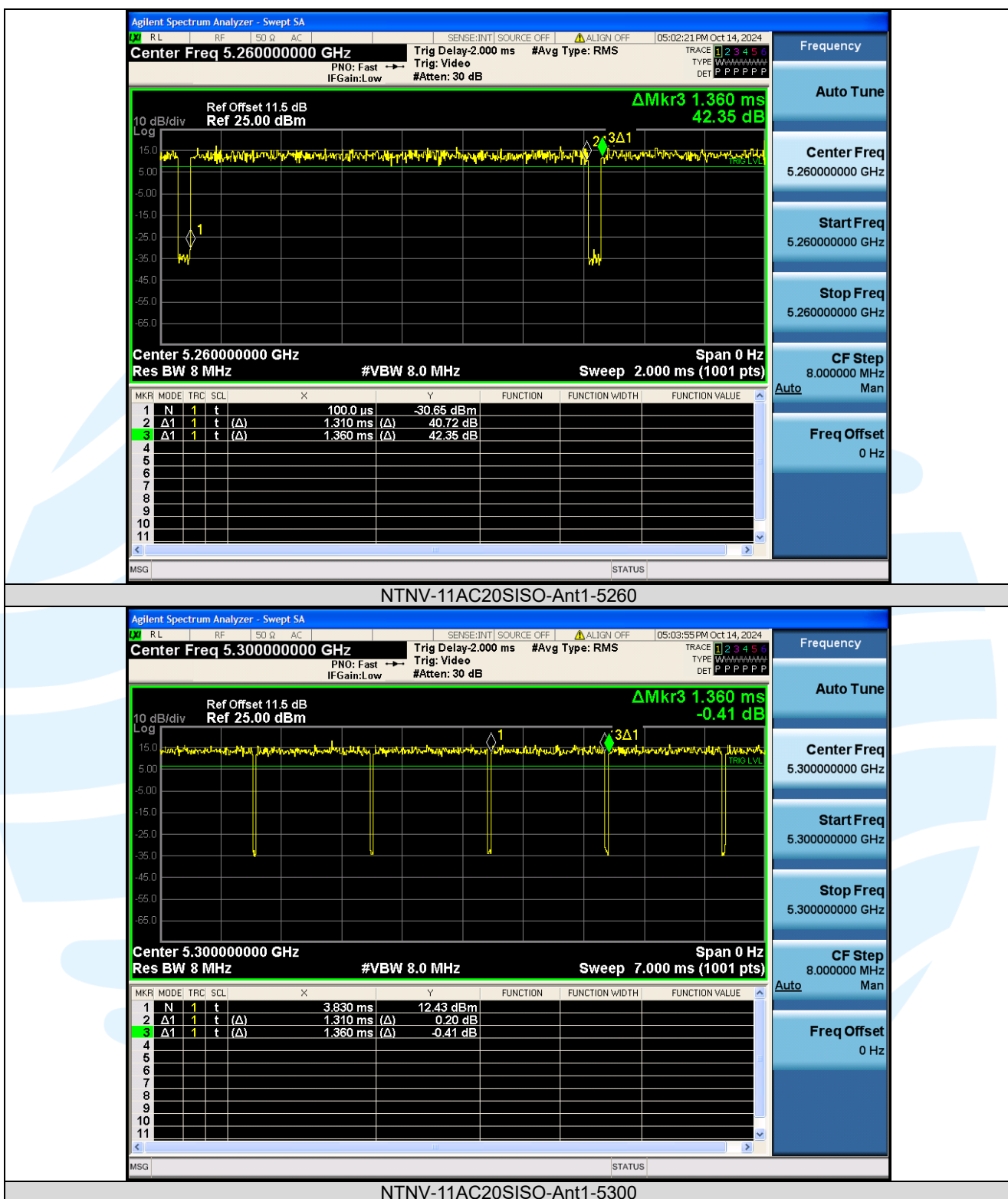
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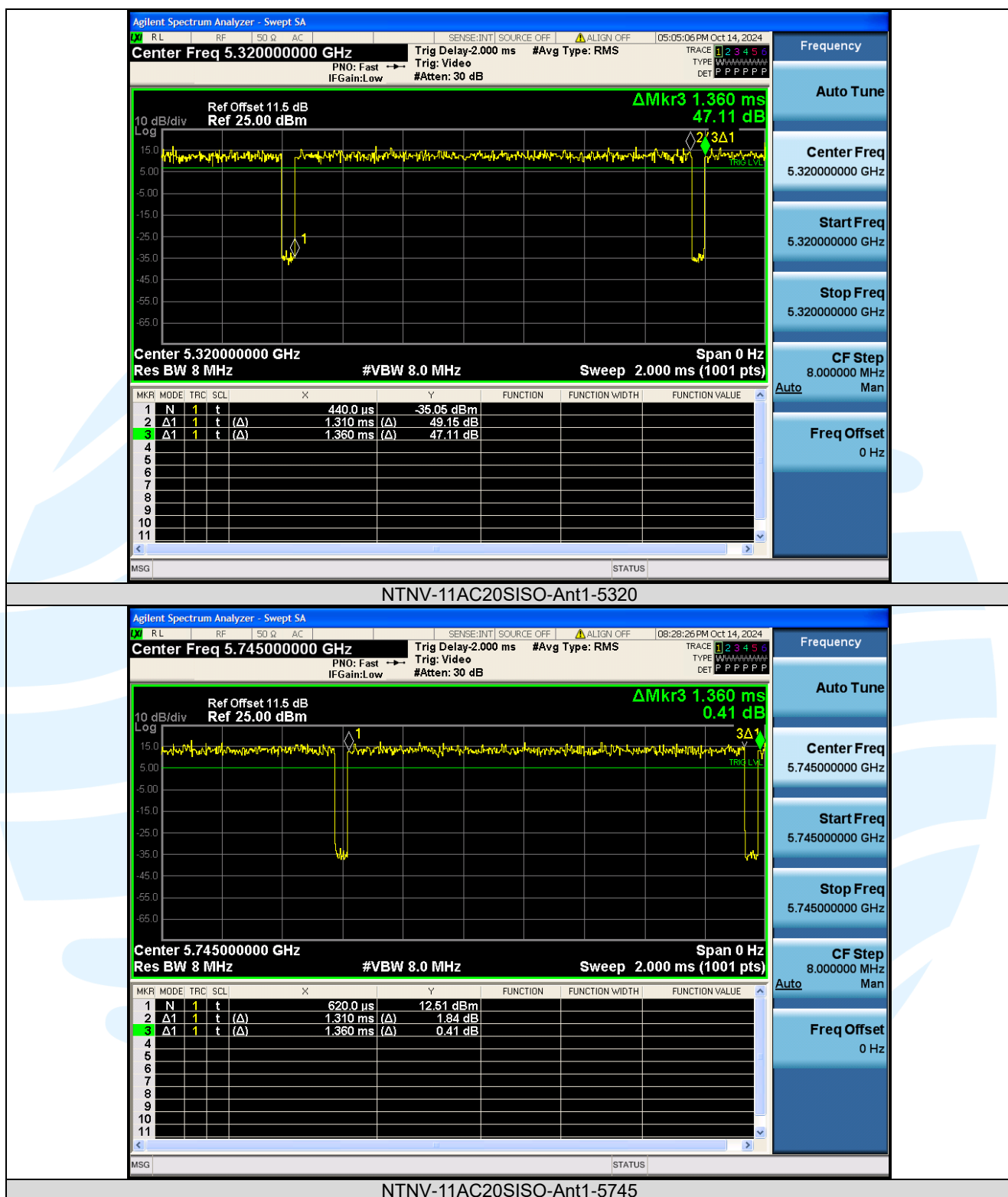
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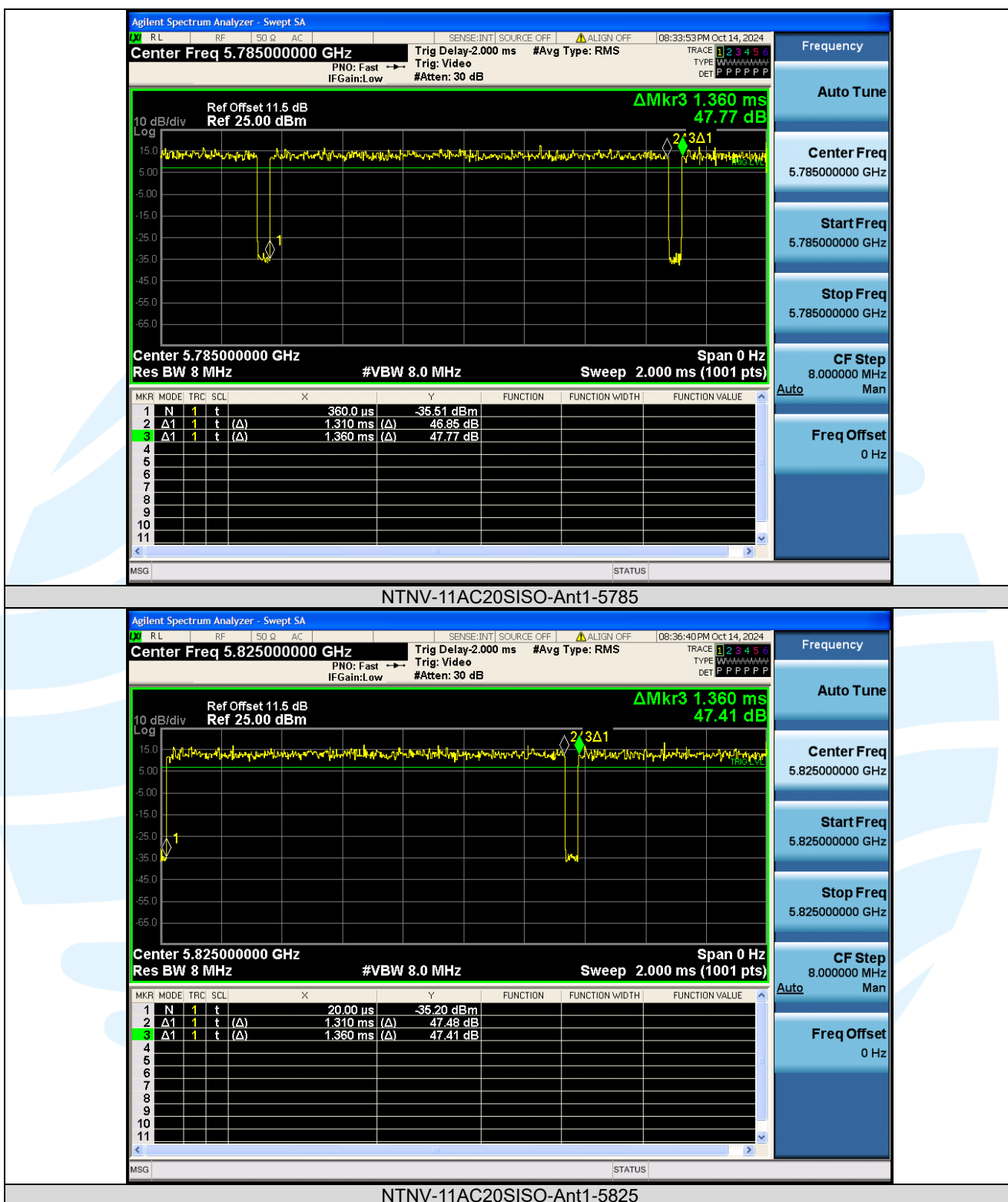
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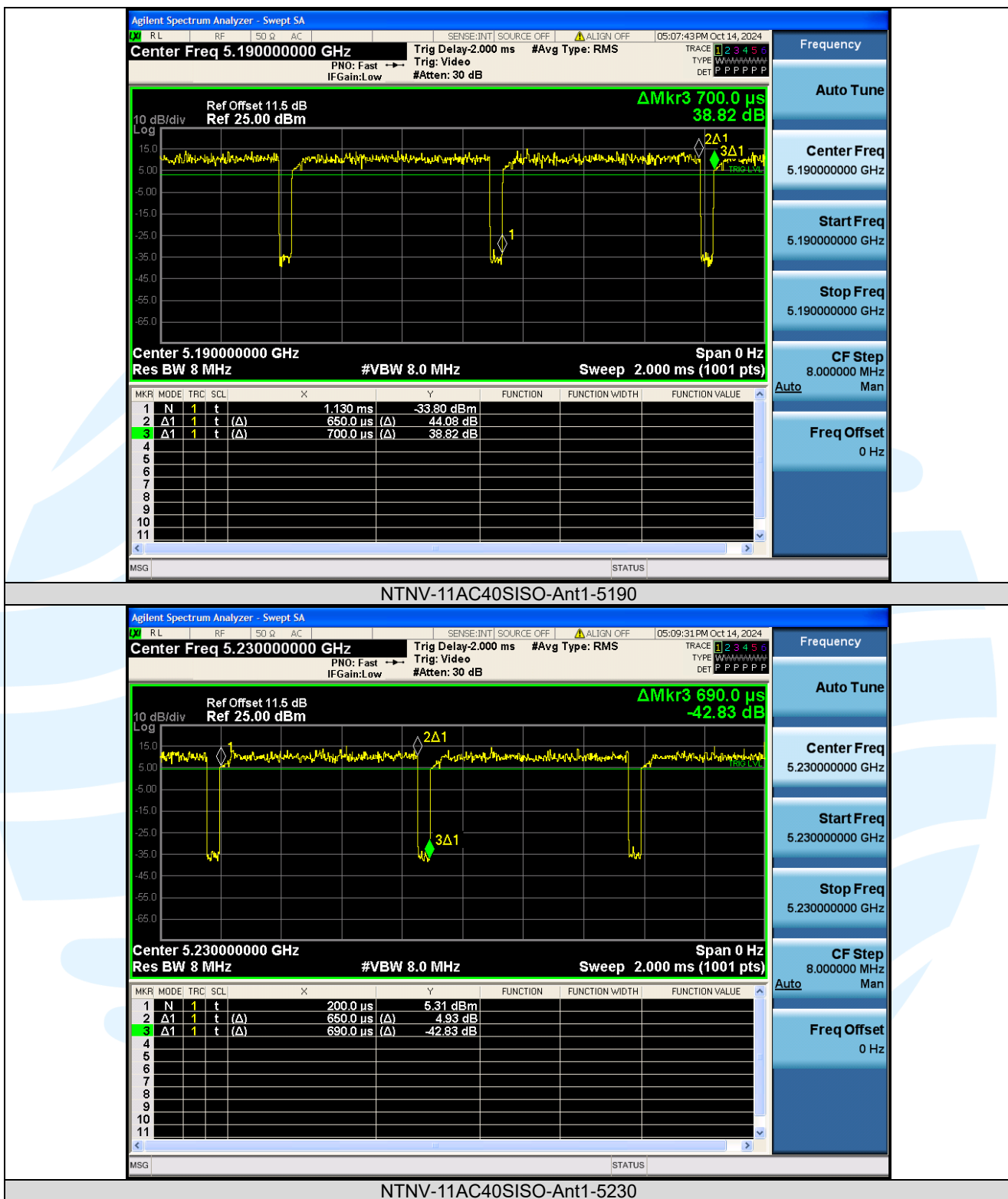
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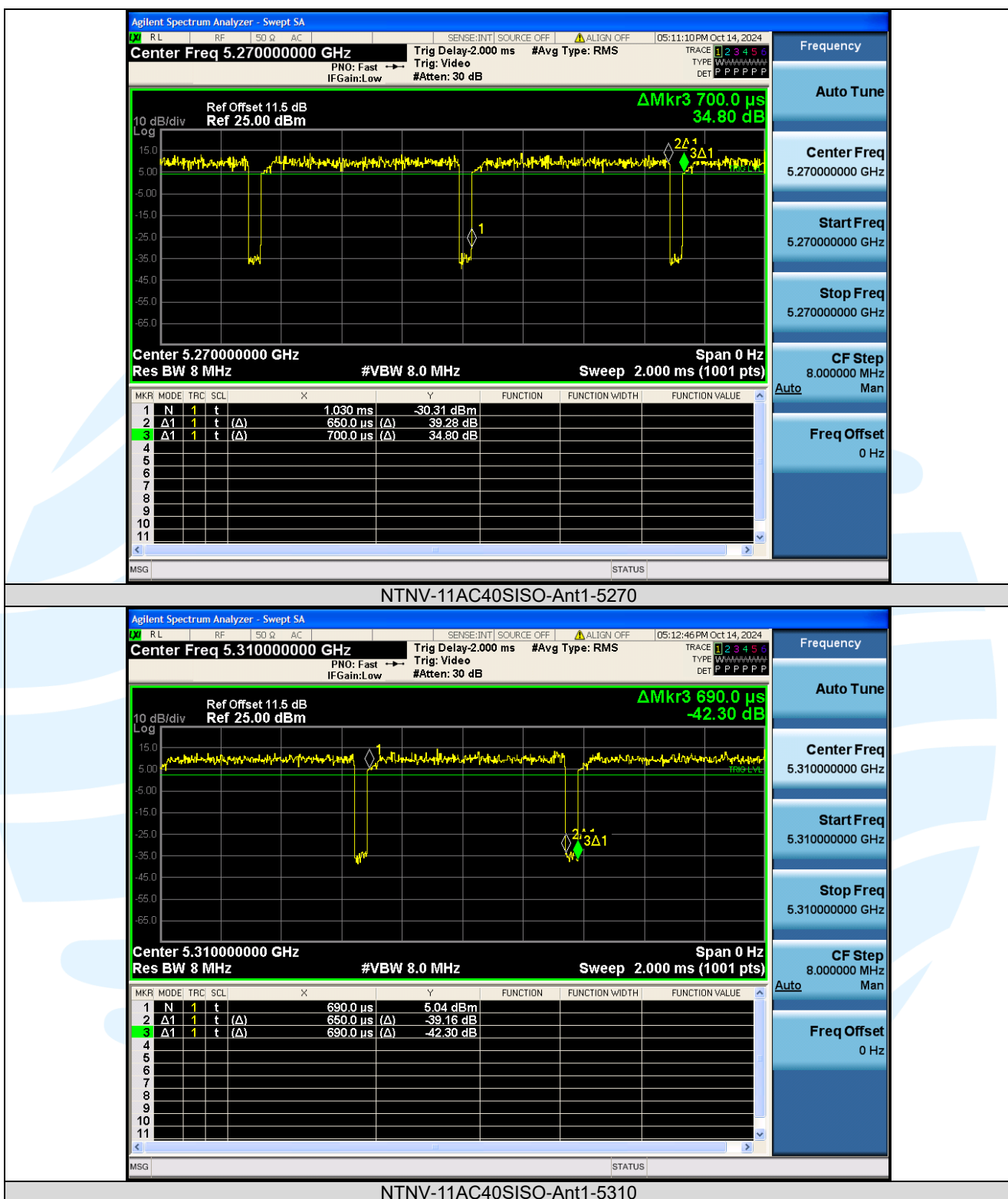
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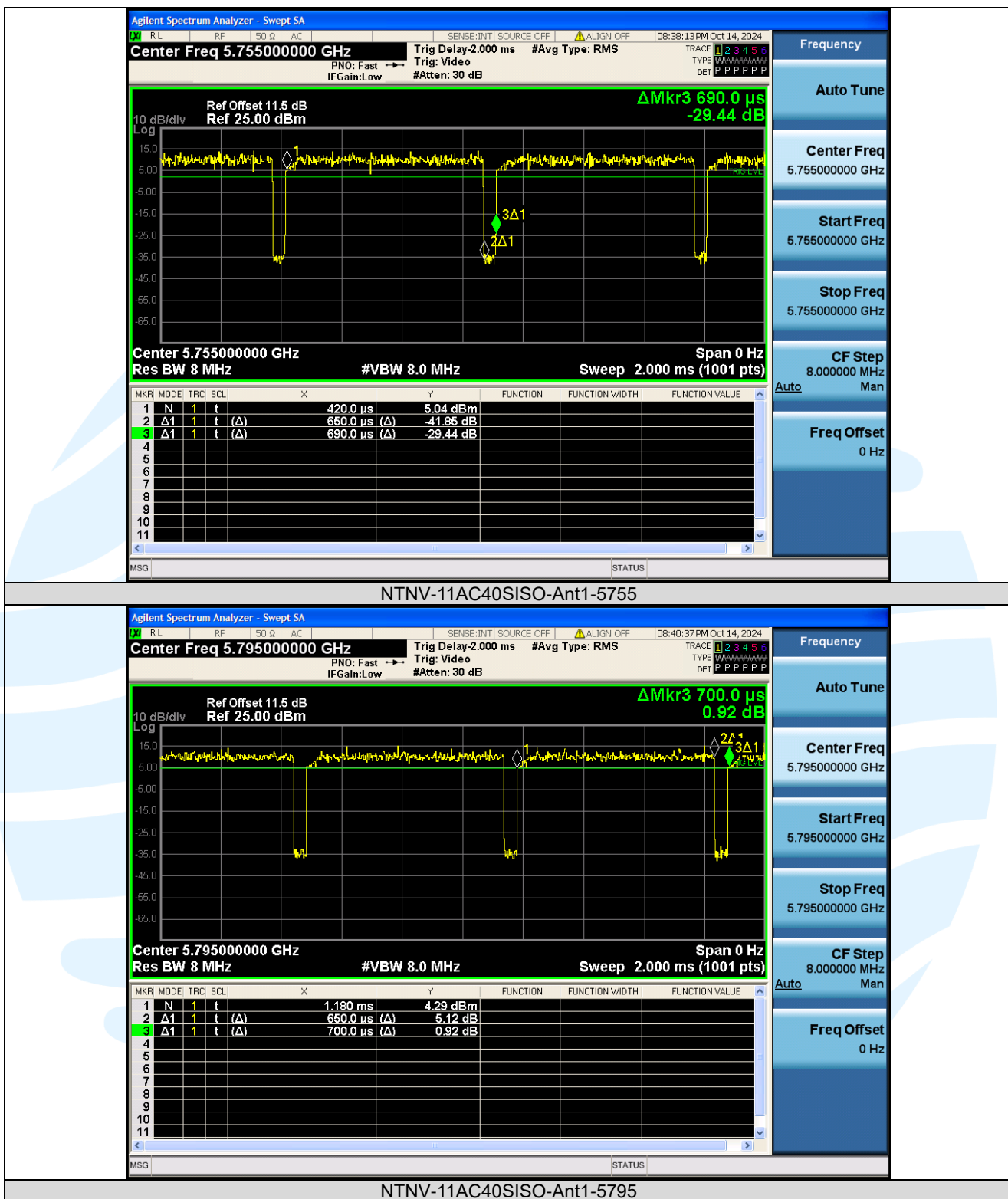
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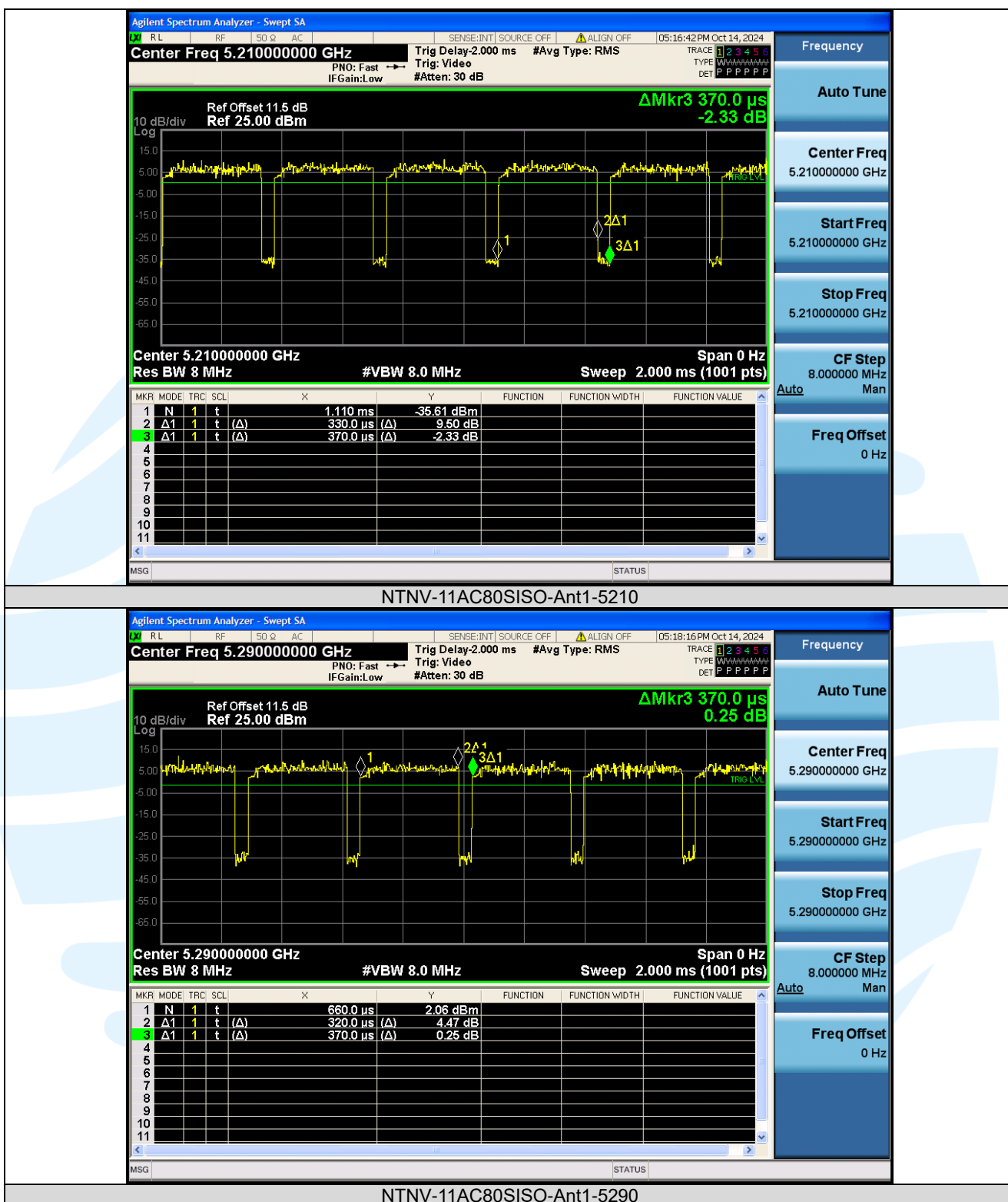
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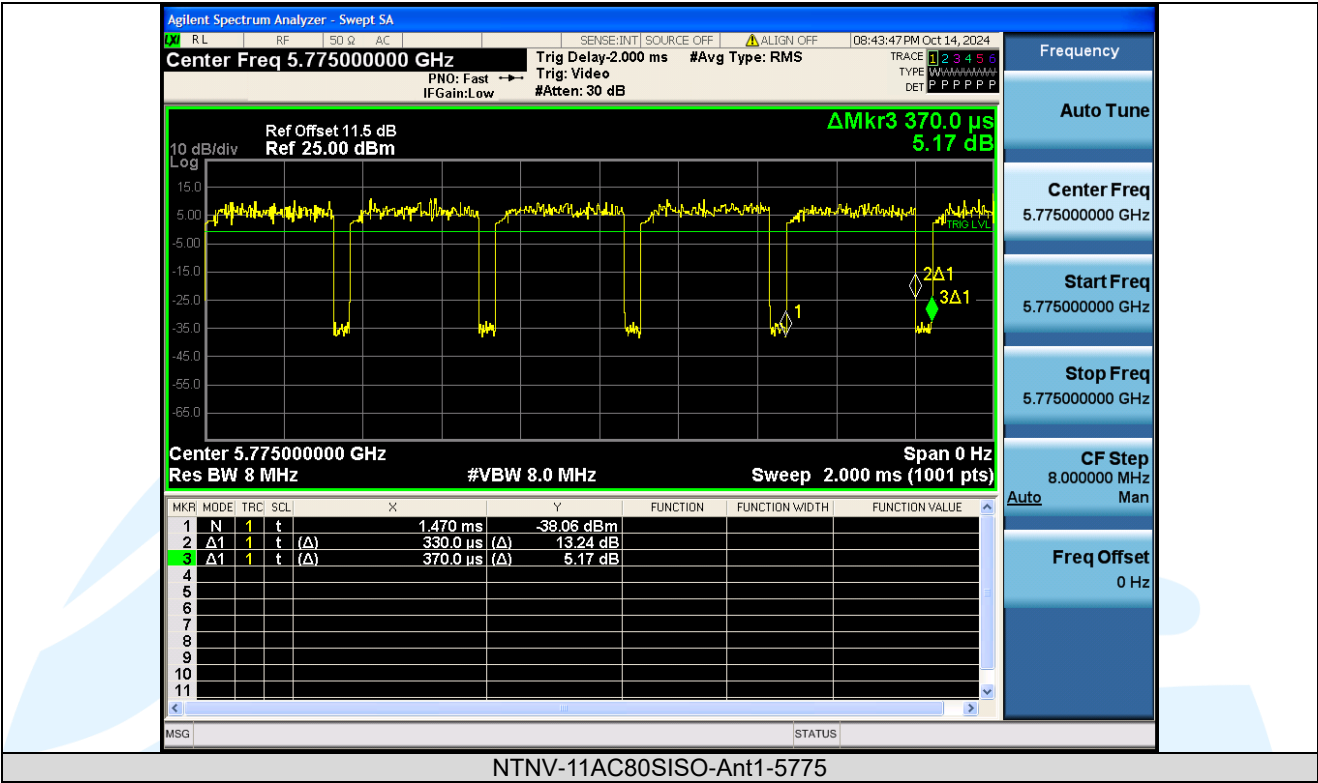
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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E
5	KDB 905462 D06 802.11 Channel Plans New Rules v02	Operation in U-NII bands -802.11 channel PLAN(§15.407)
6	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	Compliance measurement procedures for Unlicensed –National Information Infrastructure devices operates in the frequency bands 5250 MHz to 5350 MHz and 5470 MHz to 5725 MHz bands incorporating dynamic frequency selection
7	KDB 905462 D03 Client Without DFS New Rules v01r02	U-NII client devices without radar detection capability

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.407(a)(1) (2) requirement: The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi. EUT Antenna: Antenna in the interior of the equipment and no consideration of replacement. The max gain of the antenna is 2.38 dBi.

5.326 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a) (2)(5)

Test Method: KDB 789033 D02 v02r01 Section C.1

Limit: None; for reporting purposes only.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.

Spectrum analyzer according to the following Settings:

a) Set RBW = approximately 1 % of the emission bandwidth.

b) Set the VBW > RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Please refer to Appendix A

5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.407 (e)

Test Method: KDB 789033 D02 v02r01Section C.2

Limit: Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
- 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 cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Please refer to Appendix A

5.5 MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section E.3.a(Method PM)

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) 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.
 - (iii) For fixed point-to-point access points 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 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.
2. 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 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.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Antenna gain and the maximum output power limit.

Frequency Band	Antenna Gain (dBi)	Peak Power Limits (dBm)
U-NII-1	2.38	24.0
U-NII-2A	2.38	24.0
U-NII-2C	1.29	24.0
U-NII-3	1.41	30.0

For U-NII-1 Band:

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Limit (dBm)	Result
		Meas Power	Corr'd Power		
IEEE 802.11a	36 (5180)	11.76	11.91	24	Pass
	44 (5220)	11.74	11.89	24	Pass
	48 (5240)	11.82	11.97	24	Pass
IEEE 802.11n-HT20	36 (5180)	10.66	10.79	24	Pass
	44 (5220)	10.58	10.71	24	Pass
	48 (5240)	10.55	10.68	24	Pass
IEEE 802.11n-HT40	38 (5190)	10.46	10.79	24	Pass
	46 (5230)	10.26	10.59	24	Pass
IEEE 802.11ac-VHT20	36 (5180)	10.74	10.91	24	Pass
	44 (5220)	10.59	10.76	24	Pass
	48 (5240)	10.63	10.80	24	Pass
IEEE 802.11ac-VHT40	38 (5190)	10.36	10.69	24	Pass
	46 (5230)	10.37	10.70	24	Pass
IEEE 802.11ac-VHT80	42 (5210)	10.21	10.34	24	Pass

Remark:

1. Corr'd Power = Meas Power + Duty Cycle Factor

For U-NII-2A Band:

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Limit (dBm)	Result
		Meas Power	Corr'd Power		
IEEE 802.11a	52 (5260)	11.67	11.82	23.95	Pass
	60 (5300)	11.56	11.71	23.95	Pass
	64 (5320)	11.52	11.67	23.95	Pass
IEEE 802.11n-HT20	52 (5260)	10.65	10.78	24	Pass
	60 (5300)	10.45	10.58	24	Pass
	64 (5320)	10.31	10.44	24	Pass
IEEE 802.11n-HT40	54 (5270)	10.22	10.55	24	Pass
	62 (5310)	10.13	10.46	24	Pass
IEEE 802.11ac-VHT20	52 (5260)	10.33	10.50	24	Pass
	60 (5300)	10.31	10.48	24	Pass
	64 (5320)	10.29	10.46	24	Pass
IEEE 802.11ac-VHT40	54 (5270)	10.27	10.60	24	Pass
	62 (5310)	10.12	10.45	24	Pass
IEEE 802.11ac-VHT80	58 (5290)	10.18	10.31	24	Pass

Remark:

1. Corr'd Power = Meas Power + Duty Cycle Factor

Note:

For IEEE 802.11 a, the minimum 26 dB emission bandwidth is 19.72 MHz

$11 \text{ dBm} + 10\log_{10}(19.72) = 23.95 \text{ dBm} < 24 \text{ dBm (250mW)}$

So the 23.95 dB limit applicable

For IEEE 802.11n-HT20/ac-VHT20, the minimum 26 dB emission bandwidth is 19.93 MHz

$11 \text{ dBm} + 10\log_{10}(19.93) = 24 \text{ dBm (250mW)}$

So the 24 dB limit applicable

For IEEE 802.11n-HT40/ac-VHT40/ac-VHT80, the minimum 26 dB emission bandwidth is 39.99 MHz

$11 \text{ dBm} + 10\log_{10}(39.99) = 27.02 \text{ dBm} > 24 \text{ dBm (250mW)}$

So the 24 dB limit applicable

For U-NII-2C Band:

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Limit (dBm)	Result
		Meas Power	Corr'd Power		
IEEE 802.11a	100 (5500)	12.04	12.19	23.90	Pass
	116 (5580)	12.77	12.92	23.90	Pass
	120 (5600)	12.82	12.97	23.90	Pass
	140 (5700)	13.22	13.37	23.90	Pass
	144 (5720)	13.15	13.30	23.90	Pass
IEEE 802.11n-HT20	100 (5500)	10.95	11.08	24	Pass
	116 (5580)	11.46	11.59	24	Pass
	120 (5600)	11.65	11.78	24	Pass
	140 (5700)	11.95	12.08	24	Pass
	144 (5720)	11.91	12.04	24	Pass
IEEE 802.11n-HT40	102 (5510)	10.72	11.05	24	Pass
	110 (5550)	11.07	11.40	24	Pass
	118 (5590)	11.32	11.65	24	Pass
	134 (5670)	11.72	12.05	24	Pass
	142 (5710)	11.68	12.01	24	Pass
IEEE 802.11ac-VHT20	100 (5500)	10.88	11.05	24	Pass
	116 (5580)	11.60	11.77	24	Pass
	120 (5600)	11.68	11.85	24	Pass
	140 (5700)	11.83	12.00	24	Pass
	144 (5720)	11.89	12.06	24	Pass
IEEE 802.11ac-VHT40	102 (5510)	10.80	11.13	24	Pass
	110 (5550)	11.13	11.46	24	Pass
	118 (5590)	11.44	11.77	24	Pass
	134 (5670)	11.68	12.01	24	Pass
	142 (5710)	11.66	11.99	24	Pass
IEEE 802.11ac-VHT80	106 (5530)	11.17	11.30	24	Pass
	122 (5610)	11.02	11.15	24	Pass
	138 (5690)	11.29	11.42	24	Pass
Remark:					
1. Corr'd Power = Meas Power + Duty Cycle Factor					

Note:

For IEEE 802.11 a, the minimum 26 dB emission bandwidth is 19.49 MHz

$11 \text{ dBm} + 10\log_{10}(19.49) = 23.90 \text{ dBm} < 24 \text{ dBm (250mW)}$

So the 23.90 dB limit applicable

For IEEE 802.11n-HT20/ac-VHT20, the minimum 26 dB emission bandwidth is 20.01 MHz

$11 \text{ dBm} + 10\log_{10}(20.01) = 24.01 \text{ dBm} > 24 \text{ dBm (250mW)}$

So the 24 dB limit applicable

For IEEE 802.11n-HT40/ac-VHT40/ac-VHT80, the minimum 26 dB emission bandwidth is 39.75 MHz

$11 \text{ dBm} + 10\log_{10}(39.75) = 26.99 \text{ dBm} > 24 \text{ dBm (250mW)}$

So the 24 dB limit applicable

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For U-NII-3 Band:

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)		Limit (dBm)	Result
		Meas Power	Corr'd Power		
IEEE 802.11a	144 (5720)	13.15	13.30	30	Pass
	149 (5745)	13.12	13.27	30	Pass
	157 (5785)	13.08	13.23	30	Pass
	165 (5825)	12.98	13.13	30	Pass
IEEE 802.11n-HT20	144 (5720)	11.91	12.04	30	Pass
	149 (5745)	11.84	11.97	30	Pass
	157 (5785)	11.82	11.95	30	Pass
	165 (5825)	11.64	11.77	30	Pass
IEEE 802.11n-HT40	142 (5710)	11.68	12.01	30	Pass
	151 (5755)	11.56	11.89	30	Pass
	159 (5795)	11.67	12.00	30	Pass
IEEE 802.11ac-VHT20	144 (5720)	11.89	12.06	30	Pass
	149 (5745)	11.83	12.00	30	Pass
	157 (5785)	11.76	11.93	30	Pass
	165 (5825)	11.65	11.82	30	Pass
IEEE 802.11ac-VHT40	142 (5710)	11.66	11.99	30	Pass
	151 (5755)	11.58	11.91	30	Pass
	159 (5795)	11.55	11.88	30	Pass
IEEE 802.11ac-VHT80	138 (5690)	11.29	11.42	30	Pass
	155 (5775)	11.31	11.44	30	Pass

Remark:

1. Corr'd Power = Meas Power + Duty Cycle Factor

5.6 PEAK POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)

Test Method: KDB 789033 D02 v02r01 Section F

Limits:

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) 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.
 - (iii) For fixed point-to-point access points 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 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.
2. 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 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.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A band:

Using method SA-2

- a) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b) Set RBW = 1 MHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- c) Sweep time = auto, trigger set to "free run".
- d) Trace average at least 100 traces in power averaging mode.
- e) Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- a) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b) Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- c) Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- d) Sweep time = auto, trigger set to "free run".
- e) Trace average at least 100 traces in power averaging mode.
- f) Record the max value and add 10 log (1/duty cycle)

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Please refer to Appendix A

Antenna gain and the maximum output power limit.

Frequency Band	Antenna Gain (dBi)	PSD Limits (dBm/MHz or dBm/500kHz)
U-NII-1	2.38	11.0
U-NII-2A	2.38	11.0
U-NII-2C	1.29	11.0
U-NII-3	1.41	30.0

5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)
FCC 47 CFR Part 15 Subpart C Section 15.209/205

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
FCC Part 15.407 (b)(1)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(2)	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
FCC Part 15.407 (b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
FCC Part 15.407 (b)(4)	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

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Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- a) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98\%$) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

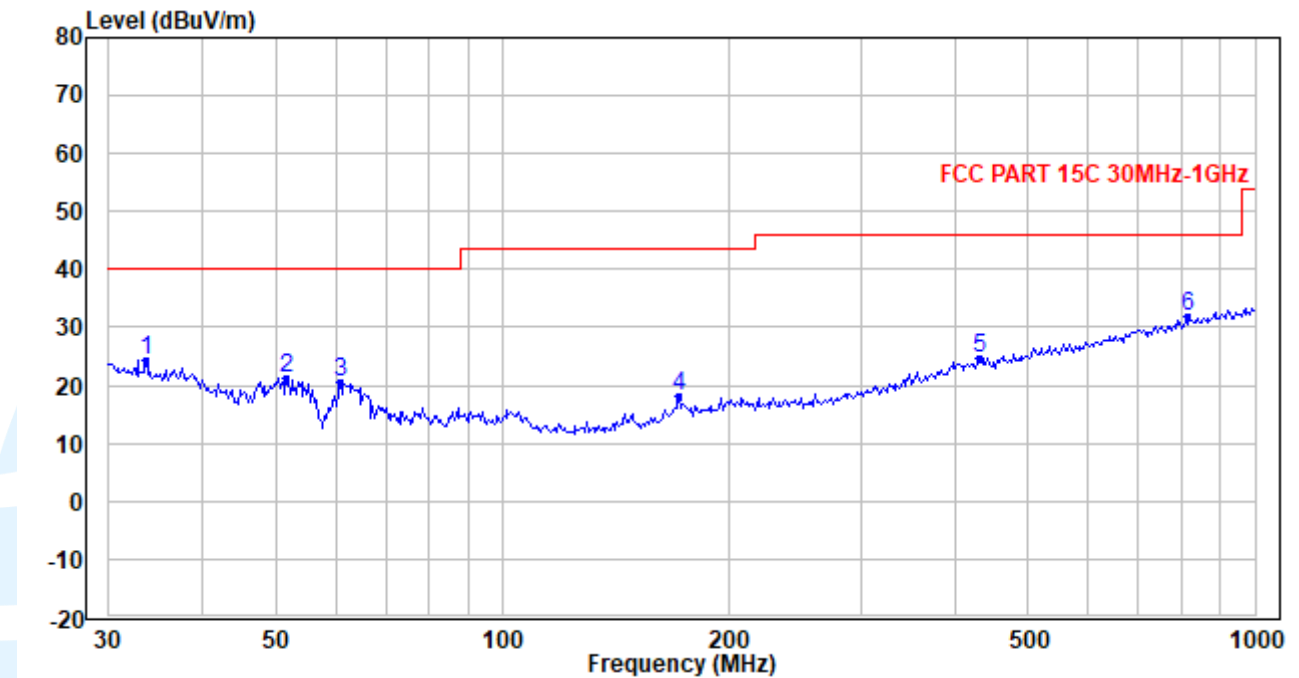
Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (9 kHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):**Worst-Case Configuration****Horizontal**

No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.549	30.85	-6.50	24.35	40.00	-15.65	QP
2	51.675	35.43	-14.30	21.13	40.00	-18.87	QP
3	60.800	37.56	-16.93	20.63	40.00	-19.37	QP
4	171.454	29.83	-11.75	18.08	43.50	-25.42	QP
5	430.156	28.54	-3.90	24.64	46.00	-21.36	QP
6	811.914	28.47	3.36	31.83	46.00	-14.17	QP

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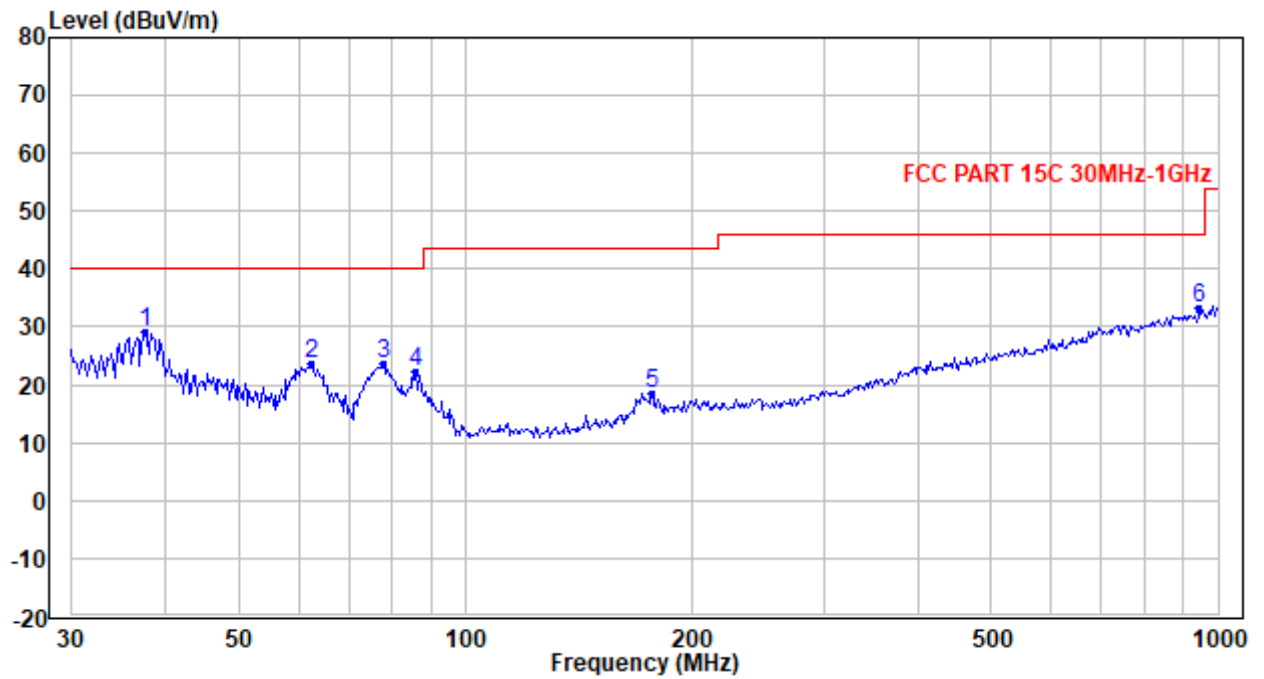
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.517	36.25	-7.14	29.11	40.00	-10.89	QP
2	62.365	40.83	-17.21	23.62	40.00	-16.38	QP
3	77.992	41.91	-18.16	23.75	40.00	-16.25	QP
4	85.898	38.96	-16.85	22.11	40.00	-17.89	QP
5	176.762	30.06	-11.54	18.52	43.50	-24.98	QP
6	945.632	28.08	5.11	33.19	46.00	-12.81	QP

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Radiated Emission Test Data (Above 1GHz): Worst-Case Configuration								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11a_Channel 36								
1	10360	35.8	3.4	39.2	54	-14.8	Average	Horizontal
2	10360	44.5	3.4	47.8	68.2	-20.4	Peak	Horizontal
3	15540	33.9	7.6	41.5	54	-12.5	Average	Horizontal
4	15540	43.1	7.6	50.7	74	-23.3	Peak	Horizontal
5	10360	36.5	3.4	39.9	54	-14.1	Average	Vertical
6	10360	45.0	3.4	48.4	68.2	-19.8	Peak	Vertical
7	15540	34.2	7.6	41.8	54	-12.3	Average	Vertical
8	15540	42.8	7.6	50.3	74	-23.7	Peak	Vertical
IEEE 802.11a_Channel 44								
1	10440	36.1	3.4	39.5	54	-14.5	Average	Horizontal
2	10440	45.5	3.4	48.9	68.2	-19.4	Peak	Horizontal
3	15660	34.5	7.5	42.0	54	-12.0	Average	Horizontal
4	15660	44.1	7.5	51.5	74	-22.5	Peak	Horizontal
5	10440	36.9	3.4	40.3	54	-13.7	Average	Vertical
6	10440	46.3	3.4	49.7	68.2	-18.5	Peak	Vertical
7	15660	34.3	7.5	41.7	54	-12.3	Average	Vertical
8	15660	44.2	7.5	51.7	74	-22.3	Peak	Vertical
IEEE 802.11a_Channel 48								
1	10480	35.5	3.4	38.9	54	-15.2	Average	Horizontal
2	10480	45.5	3.4	48.9	68.2	-19.4	Peak	Horizontal
3	15720	34.7	7.4	42.1	54	-11.9	Average	Horizontal
4	15720	44.0	7.4	51.4	74	-22.6	Peak	Horizontal
5	10480	35.5	3.4	38.9	54	-15.1	Average	Vertical
6	10480	45.1	3.4	48.5	68.2	-19.7	Peak	Vertical
7	15720	35.2	7.4	42.6	54	-11.4	Average	Vertical
8	15720	45.0	7.4	52.4	74	-21.6	Peak	Vertical
IEEE 802.11a_Channel 52								
1	10520	35.8	3.4	39.2	54	-14.9	Average	Horizontal
2	10520	44.6	3.4	47.9	68.2	-20.3	Peak	Horizontal
3	15780	35.4	7.4	42.8	54	-11.3	Average	Horizontal
4	15780	44.9	7.4	52.3	74	-21.8	Peak	Horizontal
5	10520	35.3	3.4	38.7	54	-15.4	Average	Vertical
6	10520	45.7	3.4	49.0	68.2	-19.2	Peak	Vertical
7	15780	35.5	7.4	42.8	54	-11.2	Average	Vertical
8	15780	46.0	7.4	53.4	74	-20.7	Peak	Vertical

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11a_Channel 60								
1	10600	34.5	3.2	37.7	54	-16.3	Average	Horizontal
2	10600	44.0	3.2	47.1	74	-26.9	Peak	Horizontal
3	15900	34.8	7.2	42.1	54	-11.9	Average	Horizontal
4	15900	43.7	7.2	50.9	74	-23.1	Peak	Horizontal
5	10600	35.4	3.2	38.6	54	-15.4	Average	Vertical
6	10600	44.0	3.2	47.2	74	-26.8	Peak	Vertical
7	15900	35.4	7.2	42.6	54	-11.4	Average	Vertical
8	15900	44.8	7.2	52.0	74	-22.0	Peak	Vertical
IEEE 802.11a_Channel 64								
1	10640	34.9	3.1	38.0	54	-16.0	Average	Horizontal
2	10640	44.6	3.1	47.7	74	-26.3	Peak	Horizontal
3	15960	34.8	7.2	42.0	54	-12.1	Average	Horizontal
4	15960	42.4	7.2	49.6	74	-24.4	Peak	Horizontal
5	10640	35.1	3.1	38.2	54	-15.8	Average	Vertical
6	10640	43.6	3.1	46.7	74	-27.3	Peak	Vertical
7	15960	33.9	7.2	41.1	54	-12.9	Average	Vertical
8	15960	42.6	7.2	49.8	74	-24.2	Peak	Vertical
IEEE 802.11a_Channel 100								
1	11000	34.0	2.4	36.4	54	-17.6	Average	Horizontal
2	11000	47.6	2.4	50.0	74	-24.0	Peak	Horizontal
3	16500	32.3	8.0	40.3	54	-13.7	Average	Horizontal
4	16500	44.6	8.0	52.6	68.2	-15.6	Peak	Horizontal
5	11000	33.9	2.4	36.2	54	-17.8	Average	Vertical
6	11000	46.1	2.4	48.4	74	-25.6	Peak	Vertical
7	16500	32.1	8.0	40.1	54	-13.9	Average	Vertical
8	16500	45.0	8.0	53.0	68.2	-15.2	Peak	Vertical
IEEE 802.11a_Channel 120								
1	11200	33.3	2.2	35.5	54	-18.5	Average	Horizontal
2	11200	46.0	2.2	48.2	74	-25.8	Peak	Horizontal
3	16800	31.7	8.4	40.1	54	-14.0	Average	Horizontal
4	16800	44.3	8.4	52.7	68.2	-15.5	Peak	Horizontal
5	11200	33.2	2.2	35.4	54	-18.6	Average	Vertical
6	11200	47.1	2.2	49.3	74	-24.7	Peak	Vertical
7	16800	31.6	8.4	40.0	54	-14.0	Average	Vertical
8	16800	44.7	8.4	53.0	68.2	-15.2	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11a_Channel 140								
1	11400	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11400	44.8	2.1	46.9	74	-27.1	Peak	Horizontal
3	17100	31.7	8.8	40.4	54	-13.6	Average	Horizontal
4	17100	45.4	8.8	54.2	68.2	-14.0	Peak	Horizontal
5	11400	32.7	2.1	34.8	54	-19.2	Average	Vertical
6	11400	44.9	2.1	47.0	74	-27.0	Peak	Vertical
7	17100	31.6	8.8	40.4	54	-13.6	Average	Vertical
8	17100	44.1	8.8	52.9	68.2	-15.3	Peak	Vertical
IEEE 802.11a_Channel 144								
1	11440	32.9	2.1	35.0	54	-19.0	Average	Horizontal
2	11440	45.0	2.1	47.1	74	-26.9	Peak	Horizontal
3	17160	31.4	8.9	40.2	54	-13.8	Average	Horizontal
4	17160	44.6	8.9	53.4	68.2	-14.8	Peak	Horizontal
5	11440	32.9	2.1	34.9	54	-19.1	Average	Vertical
6	11440	45.8	2.1	47.9	74	-26.1	Peak	Vertical
7	17160	31.3	8.9	40.2	54	-13.8	Average	Vertical
8	17160	44.3	8.9	53.1	68.2	-15.1	Peak	Vertical
IEEE 802.11a_Channel 149								
1	11490	34.1	2.1	36.1	54	-17.9	Average	Horizontal
2	11490	43.6	2.1	45.6	74	-28.4	Peak	Horizontal
3	17235	34.8	9.0	43.8	54	-10.2	Average	Horizontal
4	17235	43.9	9.0	52.9	68.2	-15.3	Peak	Horizontal
5	11490	34.7	2.1	36.7	54	-17.3	Average	Vertical
6	11490	44.6	2.1	46.6	74	-27.4	Peak	Vertical
7	17235	34.6	9.0	43.6	54	-10.4	Average	Vertical
8	17235	43.2	9.0	52.2	68.2	-16.0	Peak	Vertical
IEEE 802.11a_Channel 157								
1	11570	35.0	2.1	37.0	54	-17.0	Average	Horizontal
2	11570	44.5	2.1	46.6	74	-27.4	Peak	Horizontal
3	17355	33.1	9.2	42.3	54	-11.7	Average	Horizontal
4	17355	42.1	9.2	51.3	68.2	-16.9	Peak	Horizontal
5	11570	34.7	2.1	36.7	54	-17.3	Average	Vertical
6	11570	45.2	2.1	47.2	74	-26.8	Peak	Vertical
7	17355	33.4	9.2	42.6	54	-11.4	Average	Vertical
8	17355	42.4	9.2	51.6	68.2	-16.6	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11a_Channel 165								
1	11650	34.8	2.1	36.9	54	-17.1	Average	Horizontal
2	11650	43.7	2.1	45.8	74	-28.2	Peak	Horizontal
3	17475	33.3	9.3	42.6	54	-11.4	Average	Horizontal
4	17475	42.2	9.3	51.5	68.2	-16.7	Peak	Horizontal
5	11650	35.1	2.1	37.2	54	-16.8	Average	Vertical
6	11650	44.4	2.1	46.5	74	-27.5	Peak	Vertical
7	17475	32.8	9.3	42.1	54	-11.9	Average	Vertical
8	17475	42.6	9.3	51.9	68.2	-16.3	Peak	Vertical
IEEE 802.11n-HT20_Channel 36								
1	10360	35.7	3.4	39.1	54	-14.9	Average	Horizontal
2	10360	45.5	3.4	48.8	68.2	-19.4	Peak	Horizontal
3	15540	33.7	7.6	41.3	54	-12.7	Average	Horizontal
4	15540	43.1	7.6	50.6	74	-23.4	Peak	Horizontal
5	10360	35.9	3.4	39.2	54	-14.8	Average	Vertical
6	10360	45.4	3.4	48.8	68.2	-19.4	Peak	Vertical
7	15540	33.8	7.6	41.3	54	-12.7	Average	Vertical
8	15540	42.7	7.6	50.3	74	-23.7	Peak	Vertical
IEEE 802.11n-HT20_Channel 44								
1	10440	36.2	3.4	39.6	54	-14.4	Average	Horizontal
2	10440	45.5	3.4	48.9	68.2	-19.3	Peak	Horizontal
3	15660	34.5	7.5	41.9	54	-12.1	Average	Horizontal
4	15660	43.6	7.5	51.0	74	-23.0	Peak	Horizontal
5	10440	36.4	3.4	39.8	54	-14.2	Average	Vertical
6	10440	45.3	3.4	48.6	68.2	-19.6	Peak	Vertical
7	15660	34.3	7.5	41.8	54	-12.2	Average	Vertical
8	15660	44.4	7.5	51.9	74	-22.2	Peak	Vertical
IEEE 802.11n-HT20_Channel 48								
1	10480	36.4	3.4	39.8	54	-14.2	Average	Horizontal
2	10480	44.6	3.4	48.0	68.2	-20.2	Peak	Horizontal
3	15720	35.7	7.4	43.1	54	-10.9	Average	Horizontal
4	15720	44.5	7.4	51.9	74	-22.1	Peak	Horizontal
5	10480	35.7	3.4	39.1	54	-14.9	Average	Vertical
6	10480	44.8	3.4	48.2	68.2	-20.0	Peak	Vertical
7	15720	35.4	7.4	42.8	54	-11.2	Average	Vertical
8	15720	44.6	7.4	52.0	74	-22.0	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 52								
1	10520	36.4	3.4	39.7	54	-14.3	Average	Horizontal
2	10520	45.9	3.4	49.3	68.2	-18.9	Peak	Horizontal
3	15780	35.2	7.4	42.6	54	-11.4	Average	Horizontal
4	15780	44.9	7.4	52.3	74	-21.7	Peak	Horizontal
5	10520	35.7	3.4	39.1	54	-14.9	Average	Vertical
6	10520	45.1	3.4	48.5	68.2	-19.7	Peak	Vertical
7	15780	35.0	7.4	42.4	54	-11.6	Average	Vertical
8	15780	44.5	7.4	51.9	74	-22.1	Peak	Vertical
IEEE 802.11n-HT20_Channel 60								
1	10600	34.8	3.2	38.0	54	-16.0	Average	Horizontal
2	10600	45.4	3.2	48.6	74	-25.4	Peak	Horizontal
3	15900	35.0	7.2	42.2	54	-11.8	Average	Horizontal
4	15900	44.3	7.2	51.6	74	-22.5	Peak	Horizontal
5	10600	35.0	3.2	38.2	54	-15.8	Average	Vertical
6	10600	44.5	3.2	47.7	74	-26.4	Peak	Vertical
7	15900	35.3	7.2	42.5	54	-11.5	Average	Vertical
8	15900	44.7	7.2	51.9	74	-22.1	Peak	Vertical
IEEE 802.11n-HT20_Channel 64								
1	10640	34.9	3.1	38.0	54	-16.0	Average	Horizontal
2	10640	43.7	3.1	46.8	74	-27.2	Peak	Horizontal
3	15960	33.7	7.2	40.9	54	-13.1	Average	Horizontal
4	15960	43.5	7.2	50.7	74	-23.3	Peak	Horizontal
5	10640	35.0	3.1	38.1	54	-15.9	Average	Vertical
6	10640	43.1	3.1	46.2	74	-27.8	Peak	Vertical
7	15960	34.1	7.2	41.3	54	-12.7	Average	Vertical
8	15960	43.5	7.2	50.7	74	-23.3	Peak	Vertical
IEEE 802.11n-HT20_Channel 100								
1	11000	33.8	2.4	36.2	54	-17.8	Average	Horizontal
2	11000	46.0	2.4	48.4	74	-25.6	Peak	Horizontal
3	16500	32.1	8.0	40.1	54	-13.9	Average	Horizontal
4	16500	45.0	8.0	53.0	68.2	-15.2	Peak	Horizontal
5	11000	33.7	2.4	36.1	54	-17.9	Average	Vertical
6	11000	45.9	2.4	48.3	74	-25.7	Peak	Vertical
7	16500	32.0	8.0	40.0	54	-14.0	Average	Vertical
8	16500	44.6	8.0	52.6	68.2	-15.6	Peak	Vertical

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 120								
1	11200	33.2	2.2	35.4	54	-18.6	Average	Horizontal
2	11200	45.8	2.2	48.1	74	-25.9	Peak	Horizontal
3	16800	31.6	8.4	40.0	54	-14.0	Average	Horizontal
4	16800	44.6	8.4	53.0	68.2	-15.3	Peak	Horizontal
5	11200	33.0	2.2	35.3	54	-18.7	Average	Vertical
6	11200	45.4	2.2	47.6	74	-26.4	Peak	Vertical
7	16800	31.7	8.4	40.1	54	-14.0	Average	Vertical
8	16800	44.3	8.4	52.7	68.2	-15.5	Peak	Vertical
IEEE 802.11n-HT20_Channel 140								
1	11400	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11400	45.0	2.1	47.1	74	-26.9	Peak	Horizontal
3	17100	31.5	8.8	40.3	54	-13.7	Average	Horizontal
4	17100	43.9	8.8	52.7	68.2	-15.5	Peak	Horizontal
5	11400	32.7	2.1	34.8	54	-19.2	Average	Vertical
6	11400	44.7	2.1	46.8	74	-27.2	Peak	Vertical
7	17100	31.6	8.8	40.4	54	-13.6	Average	Vertical
8	17100	44.1	8.8	52.9	68.2	-15.3	Peak	Vertical
IEEE 802.11n-HT20_Channel 144								
1	11440	33.0	2.1	35.0	54	-19.0	Average	Horizontal
2	11440	45.5	2.1	47.6	74	-26.4	Peak	Horizontal
3	17160	31.3	8.9	40.2	54	-13.8	Average	Horizontal
4	17160	43.9	8.9	52.8	68.2	-15.4	Peak	Horizontal
5	11440	32.8	2.1	34.9	54	-19.1	Average	Vertical
6	11440	44.6	2.1	46.7	74	-27.3	Peak	Vertical
7	17160	31.4	8.9	40.2	54	-13.8	Average	Vertical
8	17160	44.2	8.9	53.1	68.2	-15.1	Peak	Vertical
IEEE 802.11n-HT20_Channel 149								
1	11490	34.3	2.1	36.4	54	-17.6	Average	Horizontal
2	11490	44.0	2.1	46.1	74	-27.9	Peak	Horizontal
3	17235	34.2	9.0	43.1	54	-10.9	Average	Horizontal
4	17235	43.6	9.0	52.6	68.2	-15.6	Peak	Horizontal
5	11490	34.7	2.1	36.7	54	-17.3	Average	Vertical
6	11490	44.5	2.1	46.5	74	-27.5	Peak	Vertical
7	17235	34.3	9.0	43.3	54	-10.7	Average	Vertical
8	17235	43.5	9.0	52.5	68.2	-15.7	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT20_Channel 157								
1	11570	35.0	2.1	37.1	54	-16.9	Average	Horizontal
2	11570	44.3	2.1	46.4	74	-27.6	Peak	Horizontal
3	17355	33.4	9.2	42.5	54	-11.5	Average	Horizontal
4	17355	42.4	9.2	51.6	68.2	-16.7	Peak	Horizontal
5	11570	35.6	2.1	37.6	54	-16.4	Average	Vertical
6	11570	44.0	2.1	46.1	74	-28.0	Peak	Vertical
7	17355	33.5	9.2	42.7	54	-11.3	Average	Vertical
8	17355	42.5	9.2	51.6	68.2	-16.6	Peak	Vertical
IEEE 802.11n-HT20_Channel 165								
1	11650	35.0	2.1	37.0	54	-17.0	Average	Horizontal
2	11650	44.1	2.1	46.2	74	-27.8	Peak	Horizontal
3	17475	41.6	9.3	51.0	54	-3.0	Average	Horizontal
4	17475	41.6	9.3	51.0	68.2	-17.2	Peak	Horizontal
5	11650	35.2	2.1	37.3	54	-16.7	Average	Vertical
6	11650	46.1	2.1	48.2	74	-25.8	Peak	Vertical
7	17475	33.3	9.3	42.6	54	-11.4	Average	Vertical
8	17475	42.1	9.3	51.5	68.2	-16.7	Peak	Vertical
IEEE 802.11n-HT40_Channel 38								
1	10380	36.5	3.4	39.9	54	-14.1	Average	Horizontal
2	10380	44.6	3.4	48.0	68.2	-20.2	Peak	Horizontal
3	15570	33.8	7.5	41.4	54	-12.6	Average	Horizontal
4	15570	44.5	7.5	52.0	74	-22.0	Peak	Horizontal
5	10380	36.1	3.4	39.5	54	-14.5	Average	Vertical
6	10380	44.5	3.4	47.9	68.2	-20.3	Peak	Vertical
7	15570	34.1	7.5	41.6	54	-12.4	Average	Vertical
8	15570	43.0	7.5	50.5	74	-23.5	Peak	Vertical
IEEE 802.11n-HT40_Channel 46								
1	10460	35.9	3.4	39.3	54	-14.7	Average	Horizontal
2	10460	45.8	3.4	49.2	68.2	-19.0	Peak	Horizontal
3	15690	34.6	7.4	42.0	54	-12.0	Average	Horizontal
4	15690	44.7	7.4	52.1	74	-21.9	Peak	Horizontal
5	10460	36.0	3.4	39.4	54	-14.6	Average	Vertical
6	10460	45.9	3.4	49.3	68.2	-18.9	Peak	Vertical
7	15690	34.7	7.4	42.1	54	-11.9	Average	Vertical
8	15690	43.5	7.4	50.9	74	-23.1	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT40_Channel 54								
1	10540	35.4	3.3	38.7	54	-15.3	Average	Horizontal
2	10540	44.2	3.3	47.5	68.2	-20.8	Peak	Horizontal
3	15810	35.0	7.3	42.3	54	-11.7	Average	Horizontal
4	15810	44.1	7.3	51.4	74	-22.6	Peak	Horizontal
5	10540	35.7	3.3	39.0	54	-15.0	Average	Vertical
6	10540	44.8	3.3	48.1	68.2	-20.1	Peak	Vertical
7	15810	35.3	7.3	42.6	54	-11.4	Average	Vertical
8	15810	44.7	7.3	52.1	74	-21.9	Peak	Vertical
IEEE 802.11n-HT40_Channel 62								
1	10620	35.5	3.1	38.6	54	-15.4	Average	Horizontal
2	10620	46.0	3.1	49.1	74	-24.9	Peak	Horizontal
3	15930	34.5	7.2	41.8	54	-12.3	Average	Horizontal
4	15930	44.3	7.2	51.5	74	-22.5	Peak	Horizontal
5	10620	34.9	3.1	38.1	54	-15.9	Average	Vertical
6	10620	44.9	3.1	48.0	74	-26.0	Peak	Vertical
7	15930	34.8	7.2	42.0	54	-12.0	Average	Vertical
8	15930	43.9	7.2	51.1	74	-22.9	Peak	Vertical
IEEE 802.11n-HT40_Channel 102								
1	11020	33.8	2.4	36.2	54	-17.8	Average	Horizontal
2	11020	45.9	2.4	48.3	74	-25.8	Peak	Horizontal
3	16530	32.0	8.0	40.0	54	-14.0	Average	Horizontal
4	16530	44.9	8.0	52.9	68.2	-15.3	Peak	Horizontal
5	11020	33.8	2.4	36.1	54	-17.9	Average	Vertical
6	11020	45.7	2.4	48.0	74	-26.0	Peak	Vertical
7	16530	32.0	8.0	40.0	54	-14.0	Average	Vertical
8	16530	44.5	8.0	52.5	68.2	-15.7	Peak	Vertical
IEEE 802.11n-HT40_Channel 118								
1	11180	33.2	2.3	35.4	54	-18.6	Average	Horizontal
2	11180	45.7	2.3	47.9	74	-26.1	Peak	Horizontal
3	16770	31.6	8.4	40.0	54	-14.0	Average	Horizontal
4	16770	44.0	8.4	52.4	68.2	-15.8	Peak	Horizontal
5	11180	33.1	2.3	35.4	54	-18.6	Average	Vertical
6	11180	44.8	2.3	47.1	74	-26.9	Peak	Vertical
7	16770	31.8	8.4	40.1	54	-13.9	Average	Vertical
8	16770	45.6	8.4	54.0	68.2	-14.2	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11n-HT40_Channel 134								
1	11340	32.7	2.2	34.9	54	-19.1	Average	Horizontal
2	11340	45.0	2.2	47.1	74	-26.9	Peak	Horizontal
3	17010	31.6	8.7	40.2	54	-13.8	Average	Horizontal
4	17010	44.3	8.7	52.9	68.2	-15.3	Peak	Horizontal
5	11340	32.7	2.2	34.9	54	-19.1	Average	Vertical
6	11340	45.2	2.2	47.4	74	-26.6	Peak	Vertical
7	17010	31.6	8.7	40.3	54	-13.7	Average	Vertical
8	17010	44.4	8.7	53.1	68.2	-15.1	Peak	Vertical
IEEE 802.11n-HT40_Channel 142								
1	11420	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11420	45.8	2.1	47.9	74	-26.1	Peak	Horizontal
3	17130	31.5	8.8	40.4	54	-13.6	Average	Horizontal
4	17130	44.9	8.8	53.7	68.2	-14.5	Peak	Horizontal
5	11420	32.8	2.1	34.9	54	-19.2	Average	Vertical
6	11420	46.0	2.1	48.1	74	-25.9	Peak	Vertical
7	17130	31.6	8.8	40.4	54	-13.6	Average	Vertical
8	17130	43.7	8.8	52.5	68.2	-15.7	Peak	Vertical
IEEE 802.11n-HT40_Channel 151								
1	11510	34.4	2.1	36.4	54	-17.6	Average	Horizontal
2	11510	44.0	2.1	46.0	74	-28.0	Peak	Horizontal
3	17265	34.6	9.0	43.6	54	-10.4	Average	Horizontal
4	17265	43.2	9.0	52.3	68.2	-15.9	Peak	Horizontal
5	11510	34.8	2.1	36.8	54	-17.2	Average	Vertical
6	11510	44.5	2.1	46.5	74	-27.5	Peak	Vertical
7	17265	34.2	9.0	43.2	54	-10.8	Average	Vertical
8	17265	44.1	9.0	53.1	68.2	-15.1	Peak	Vertical
IEEE 802.11n-HT40_Channel 159								
1	11590	34.7	2.1	36.8	54	-17.2	Average	Horizontal
2	11590	44.3	2.1	46.3	74	-27.7	Peak	Horizontal
3	17385	33.8	9.2	43.0	54	-11.0	Average	Horizontal
4	17385	42.8	9.2	52.0	68.2	-16.2	Peak	Horizontal
5	11590	34.8	2.1	36.8	54	-17.2	Average	Vertical
6	11590	43.9	2.1	46.0	74	-28.0	Peak	Vertical
7	17385	33.8	9.2	43.1	54	-11.0	Average	Vertical
8	17385	42.7	9.2	51.9	68.2	-16.3	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT20_Channel 36								
1	10360	36.1	3.4	39.5	54	-14.5	Average	Horizontal
2	10360	45.8	3.4	49.2	68.2	-19.0	Peak	Horizontal
3	15540	33.8	7.6	41.3	54	-12.7	Average	Horizontal
4	15540	43.7	7.6	51.2	74	-22.8	Peak	Horizontal
5	10360	36.8	3.4	40.2	54	-13.8	Average	Vertical
6	10360	46.9	3.4	50.2	68.2	-18.0	Peak	Vertical
7	15540	34.1	7.6	41.6	54	-12.4	Average	Vertical
8	15540	43.4	7.6	51.0	74	-23.0	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 44								
1	10440	36.6	3.4	39.9	54	-14.1	Average	Horizontal
2	10440	45.4	3.4	48.7	68.2	-19.5	Peak	Horizontal
3	15660	34.4	7.5	41.8	54	-12.2	Average	Horizontal
4	15660	45.2	7.5	52.7	74	-21.3	Peak	Horizontal
5	10440	36.7	3.4	40.1	54	-13.9	Average	Vertical
6	10440	45.6	3.4	49.0	68.2	-19.2	Peak	Vertical
7	15660	34.2	7.5	41.6	54	-12.4	Average	Vertical
8	15660	43.8	7.5	51.2	74	-22.8	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 48								
1	10480	35.9	3.4	39.3	54	-14.8	Average	Horizontal
2	10480	44.9	3.4	48.3	68.2	-19.9	Peak	Horizontal
3	15720	35.1	7.4	42.5	54	-11.5	Average	Horizontal
4	15720	45.3	7.4	52.7	74	-21.3	Peak	Horizontal
5	10480	35.5	3.4	38.9	54	-15.1	Average	Vertical
6	10480	45.4	3.4	48.8	68.2	-19.4	Peak	Vertical
7	15720	35.1	7.4	42.5	54	-11.5	Average	Vertical
8	15720	44.6	7.4	52.0	74	-22.0	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 52								
1	10520	35.7	3.4	39.1	54	-15.0	Average	Horizontal
2	10520	44.8	3.4	48.2	68.2	-20.0	Peak	Horizontal
3	15780	35.5	7.4	42.9	54	-11.2	Average	Horizontal
4	15780	44.8	7.4	52.1	74	-21.9	Peak	Horizontal
5	10520	36.1	3.4	39.4	54	-14.6	Average	Vertical
6	10520	46.7	3.4	50.0	68.2	-18.2	Peak	Vertical
7	15780	35.8	7.4	43.1	54	-10.9	Average	Vertical
8	15780	45.8	7.4	53.2	74	-20.8	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT20_Channel 60								
1	10600	34.9	3.2	38.1	54	-15.9	Average	Horizontal
2	10600	43.9	3.2	47.1	74	-26.9	Peak	Horizontal
3	15900	35.1	7.2	42.4	54	-11.6	Average	Horizontal
4	15900	46.0	7.2	53.2	74	-20.8	Peak	Horizontal
5	10600	35.3	3.2	38.5	54	-15.5	Average	Vertical
6	10600	44.6	3.2	47.8	74	-26.2	Peak	Vertical
7	15900	35.0	7.2	42.2	54	-11.8	Average	Vertical
8	15900	44.7	7.2	52.0	74	-22.1	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 64								
1	10640	34.9	3.1	38.0	54	-16.0	Average	Horizontal
2	10640	44.0	3.1	47.1	74	-26.9	Peak	Horizontal
3	15960	34.5	7.2	41.7	54	-12.3	Average	Horizontal
4	15960	44.4	7.2	51.6	74	-22.4	Peak	Horizontal
5	10640	35.2	3.1	38.3	54	-15.7	Average	Vertical
6	10640	44.6	3.1	47.7	74	-26.3	Peak	Vertical
7	15960	33.9	7.2	41.1	54	-12.9	Average	Vertical
8	15960	43.2	7.2	50.4	74	-23.6	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 100								
1	11000	33.8	2.4	36.2	54	-17.8	Average	Horizontal
2	11000	46.0	2.4	48.4	74	-25.6	Peak	Horizontal
3	16500	32.0	8.0	40.0	54	-14.0	Average	Horizontal
4	16500	44.1	8.0	52.1	68.2	-16.1	Peak	Horizontal
5	11000	33.7	2.4	36.1	54	-17.9	Average	Vertical
6	11000	46.2	2.4	48.5	74	-25.5	Peak	Vertical
7	16500	32.0	8.0	40.0	54	-14.0	Average	Vertical
8	16500	43.9	8.0	51.9	68.2	-16.3	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 120								
1	11200	33.2	2.2	35.5	54	-18.5	Average	Horizontal
2	11200	45.3	2.2	47.5	74	-26.5	Peak	Horizontal
3	16800	31.7	8.4	40.1	54	-14.0	Average	Horizontal
4	16800	44.5	8.4	52.9	68.2	-15.3	Peak	Horizontal
5	11200	33.1	2.2	35.3	54	-18.7	Average	Vertical
6	11200	45.8	2.2	48.1	74	-26.0	Peak	Vertical
7	16800	31.7	8.4	40.1	54	-14.0	Average	Vertical
8	16800	44.1	8.4	52.5	68.2	-15.7	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT20_Channel 140								
1	11400	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11400	44.4	2.1	46.5	74	-27.5	Peak	Horizontal
3	17100	31.5	8.8	40.3	54	-13.7	Average	Horizontal
4	17100	43.8	8.8	52.6	68.2	-15.7	Peak	Horizontal
5	11400	32.7	2.1	34.8	54	-19.2	Average	Vertical
6	11400	44.6	2.1	46.7	74	-27.3	Peak	Vertical
7	17100	31.5	8.8	40.3	54	-13.7	Average	Vertical
8	17100	43.8	8.8	52.6	68.2	-15.6	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 144								
1	11440	32.9	2.1	34.9	54	-19.1	Average	Horizontal
2	11440	44.8	2.1	46.9	74	-27.1	Peak	Horizontal
3	17160	31.4	8.9	40.2	54	-13.8	Average	Horizontal
4	17160	44.1	8.9	52.9	68.2	-15.3	Peak	Horizontal
5	11440	32.9	2.1	34.9	54	-19.1	Average	Vertical
6	11440	45.4	2.1	47.5	74	-26.5	Peak	Vertical
7	17160	31.3	8.9	40.2	54	-13.8	Average	Vertical
8	17160	43.6	8.9	52.4	68.2	-15.8	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 149								
1	11490	34.4	2.1	36.5	54	-17.5	Average	Horizontal
2	11490	44.2	2.1	46.2	74	-27.8	Peak	Horizontal
3	17235	35.0	9.0	44.0	54	-10.0	Average	Horizontal
4	17235	43.8	9.0	52.8	68.2	-15.4	Peak	Horizontal
5	11490	34.6	2.1	36.6	54	-17.4	Average	Vertical
6	11490	43.7	2.1	45.7	74	-28.3	Peak	Vertical
7	17235	35.1	9.0	44.1	54	-9.9	Average	Vertical
8	17235	44.6	9.0	53.5	68.2	-14.7	Peak	Vertical
IEEE 802.11ac-VHT20_Channel 157								
1	11570	34.8	2.1	36.8	54	-17.2	Average	Horizontal
2	11570	44.0	2.1	46.0	74	-28.0	Peak	Horizontal
3	17355	33.1	9.2	42.3	54	-11.7	Average	Horizontal
4	17355	42.6	9.2	51.8	68.2	-16.4	Peak	Horizontal
5	11570	35.5	2.1	37.5	54	-16.5	Average	Vertical
6	11570	45.1	2.1	47.1	74	-26.9	Peak	Vertical
7	17355	33.1	9.2	42.2	54	-11.8	Average	Vertical
8	17355	42.6	9.2	51.7	68.2	-16.5	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT20_Channel 165								
1	11650	35.6	2.1	37.7	54	-16.3	Average	Horizontal
2	11650	45.6	2.1	47.7	74	-26.3	Peak	Horizontal
3	17475	33.1	9.3	42.4	54	-11.6	Average	Horizontal
4	17475	41.8	9.3	51.1	68.2	-17.1	Peak	Horizontal
5	11650	35.2	2.1	37.3	54	-16.7	Average	Vertical
6	11650	44.9	2.1	47.0	74	-27.0	Peak	Vertical
7	17475	33.8	9.3	43.1	54	-10.9	Average	Vertical
8	17475	42.3	9.3	51.7	68.2	-16.5	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 38								
1	10380	35.9	3.4	39.3	54	-14.7	Average	Horizontal
2	10380	46.3	3.4	49.7	68.2	-18.5	Peak	Horizontal
3	15570	33.6	7.5	41.2	54	-12.8	Average	Horizontal
4	15570	43.8	7.5	51.4	74	-22.6	Peak	Horizontal
5	10380	36.2	3.4	39.6	54	-14.4	Average	Vertical
6	10380	45.5	3.4	48.9	68.2	-19.4	Peak	Vertical
7	15570	34.0	7.5	41.6	54	-12.4	Average	Vertical
8	15570	43.9	7.5	51.5	74	-22.5	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 46								
1	10460	36.0	3.4	39.4	54	-14.6	Average	Horizontal
2	10460	44.5	3.4	47.9	68.2	-20.3	Peak	Horizontal
3	15690	34.5	7.4	41.9	54	-12.1	Average	Horizontal
4	15690	43.8	7.4	51.2	74	-22.8	Peak	Horizontal
5	10460	35.7	3.4	39.1	54	-14.9	Average	Vertical
6	10460	45.5	3.4	48.9	68.2	-19.3	Peak	Vertical
7	15690	34.6	7.4	42.0	54	-12.0	Average	Vertical
8	15690	44.4	7.4	51.9	74	-22.2	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 54								
1	10540	35.6	3.3	38.9	54	-15.1	Average	Horizontal
2	10540	45.0	3.3	48.3	68.2	-19.9	Peak	Horizontal
3	15810	35.4	7.3	42.7	54	-11.3	Average	Horizontal
4	15810	45.2	7.3	52.6	74	-21.5	Peak	Horizontal
5	10540	35.4	3.3	38.7	54	-15.3	Average	Vertical
6	10540	44.6	3.3	47.9	68.2	-20.3	Peak	Vertical
7	15810	35.3	7.3	42.6	54	-11.4	Average	Vertical
8	15810	45.0	7.3	52.4	74	-21.6	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT40_Channel 62								
1	10620	34.8	3.1	38.0	54	-16.1	Average	Horizontal
2	10620	46.2	3.1	49.3	74	-24.7	Peak	Horizontal
3	15930	34.6	7.2	41.8	54	-12.2	Average	Horizontal
4	15930	43.7	7.2	50.9	74	-23.1	Peak	Horizontal
5	10620	35.2	3.1	38.4	54	-15.6	Average	Vertical
6	10620	45.3	3.1	48.4	74	-25.6	Peak	Vertical
7	15930	34.8	7.2	42.0	54	-12.0	Average	Vertical
8	15930	44.1	7.2	51.3	74	-22.7	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 102								
1	11020	33.8	2.4	36.2	54	-17.8	Average	Horizontal
2	11020	46.4	2.4	48.7	74	-25.3	Peak	Horizontal
3	16530	32.0	8.0	40.0	54	-14.0	Average	Horizontal
4	16530	44.8	8.0	52.8	68.2	-15.4	Peak	Horizontal
5	11020	33.7	2.4	36.0	54	-18.0	Average	Vertical
6	11020	45.3	2.4	47.6	74	-26.4	Peak	Vertical
7	16530	32.0	8.0	40.0	54	-14.0	Average	Vertical
8	16530	44.5	8.0	52.6	68.2	-15.7	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 118								
1	11180	33.2	2.3	35.5	54	-18.5	Average	Horizontal
2	11180	45.5	2.3	47.7	74	-26.3	Peak	Horizontal
3	16770	31.7	8.4	40.1	54	-14.0	Average	Horizontal
4	16770	43.8	8.4	52.2	68.2	-16.0	Peak	Horizontal
5	11180	33.0	2.3	35.2	54	-18.8	Average	Vertical
6	11180	46.1	2.3	48.4	74	-25.6	Peak	Vertical
7	16770	31.7	8.4	40.0	54	-14.0	Average	Vertical
8	16770	44.3	8.4	52.6	68.2	-15.6	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 134								
1	11340	32.8	2.2	34.9	54	-19.1	Average	Horizontal
2	11340	44.6	2.2	46.8	74	-27.2	Peak	Horizontal
3	17010	31.5	8.7	40.2	54	-13.8	Average	Horizontal
4	17010	43.8	8.7	52.5	68.2	-15.7	Peak	Horizontal
5	11340	32.7	2.2	34.8	54	-19.2	Average	Vertical
6	11340	44.7	2.2	46.9	74	-27.1	Peak	Vertical
7	17010	31.6	8.7	40.3	54	-13.7	Average	Vertical
8	17010	44.6	8.7	53.3	68.2	-14.9	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT40_Channel 142								
1	11420	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11420	45.3	2.1	47.4	74	-26.6	Peak	Horizontal
3	17130	31.6	8.8	40.4	54	-13.6	Average	Horizontal
4	17130	43.9	8.8	52.8	68.2	-15.5	Peak	Horizontal
5	11420	32.7	2.1	34.8	54	-19.2	Average	Vertical
6	11420	45.3	2.1	47.4	74	-26.6	Peak	Vertical
7	17130	31.7	8.8	40.5	54	-13.5	Average	Vertical
8	17130	44.0	8.8	52.8	68.2	-15.4	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 151								
1	11510	34.9	2.1	37.0	54	-17.0	Average	Horizontal
2	11510	43.6	2.1	45.7	74	-28.4	Peak	Horizontal
3	17265	34.1	9.0	43.2	54	-10.8	Average	Horizontal
4	17265	43.1	9.0	52.1	68.2	-16.1	Peak	Horizontal
5	11510	34.5	2.1	36.6	54	-17.5	Average	Vertical
6	11510	43.8	2.1	45.9	74	-28.1	Peak	Vertical
7	17265	34.0	9.0	43.0	54	-11.0	Average	Vertical
8	17265	43.4	9.0	52.5	68.2	-15.7	Peak	Vertical
IEEE 802.11ac-VHT40_Channel 159								
1	11590	34.9	2.1	37.0	54	-17.0	Average	Horizontal
2	11590	43.6	2.1	45.6	74	-28.4	Peak	Horizontal
3	17385	33.7	9.2	42.9	54	-11.1	Average	Horizontal
4	17385	43.3	9.2	52.5	68.2	-15.7	Peak	Horizontal
5	11590	35.3	2.1	37.3	54	-16.7	Average	Vertical
6	11590	44.8	2.1	46.9	74	-27.2	Peak	Vertical
7	17385	34.4	9.2	43.6	54	-10.4	Average	Vertical
8	17385	44.2	9.2	53.4	68.2	-14.8	Peak	Vertical
IEEE 802.11ac-VHT80_Channel 42								
1	10420	36.2	3.4	39.6	54	-14.4	Average	Horizontal
2	10420	45.8	3.4	49.1	68.2	-19.1	Peak	Horizontal
3	15630	34.0	7.5	41.5	54	-12.5	Average	Horizontal
4	15630	43.7	7.5	51.2	74	-22.8	Peak	Horizontal
5	10420	36.8	3.4	40.1	54	-13.9	Average	Vertical
6	10420	45.9	3.4	49.3	68.2	-19.0	Peak	Vertical
7	15630	34.3	7.5	41.8	54	-12.2	Average	Vertical
8	15630	42.7	7.5	50.1	74	-23.9	Peak	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT80_Channel 58								
1	10580	35.3	3.2	38.5	54	-15.5	Average	Horizontal
2	10580	45.5	3.2	48.7	68.2	-19.5	Peak	Horizontal
3	15870	35.5	7.3	42.8	54	-11.2	Average	Horizontal
4	15870	43.9	7.3	51.2	74	-22.8	Peak	Horizontal
5	10580	35.2	3.2	38.4	54	-15.6	Average	Vertical
6	10580	44.2	3.2	47.4	68.2	-20.8	Peak	Vertical
7	15870	35.3	7.3	42.6	54	-11.5	Average	Vertical
8	15870	44.2	7.3	51.4	74	-22.6	Peak	Vertical
IEEE 802.11ac-VHT80_Channel 155								
1	11550	34.9	2.1	37.0	54	-17.0	Average	Horizontal
2	11550	44.2	2.1	46.2	74	-27.8	Peak	Horizontal
3	17325	33.5	9.1	42.7	54	-11.3	Average	Horizontal
4	17325	44.9	9.1	54.1	68.2	-14.1	Peak	Horizontal
5	11550	35.4	2.1	37.5	54	-16.6	Average	Vertical
6	11550	44.6	2.1	46.7	74	-27.4	Peak	Vertical
7	17325	33.8	9.1	42.9	54	-11.1	Average	Vertical
8	17325	42.6	9.1	51.8	68.2	-16.5	Peak	Vertical
IEEE 802.11ac-VHT80_Channel 106								
1	11060	33.8	2.3	36.2	54	-17.9	Average	Horizontal
2	11060	47.4	2.3	49.7	74	-24.3	Peak	Horizontal
3	16590	30.8	8.1	38.9	54	-15.1	Average	Horizontal
4	16590	43.9	8.1	52.0	68.2	-16.2	Peak	Horizontal
5	11060	33.7	2.3	36.0	54	-18.0	Average	Vertical
6	11060	46.1	2.3	48.5	74	-25.5	Peak	Vertical
7	16590	30.9	8.1	39.1	54	-15.0	Average	Vertical
8	16590	43.9	8.1	52.0	68.2	-16.2	Peak	Vertical
IEEE 802.11ac-VHT80_Channel 122								
1	11220	33.2	2.2	35.4	54	-18.6	Average	Horizontal
2	11220	46.5	2.2	48.7	74	-25.3	Peak	Horizontal
3	16830	31.6	8.4	40.1	54	-14.0	Average	Horizontal
4	16830	45.2	8.4	53.6	68.2	-14.6	Peak	Horizontal
5	11220	33.0	2.2	35.2	54	-18.8	Average	Vertical
6	11220	46.4	2.2	48.6	74	-25.4	Peak	Vertical
7	16830	31.6	8.4	40.1	54	-14.0	Average	Vertical
8	16830	44.0	8.4	52.4	68.2	-15.8	Peak	Vertical

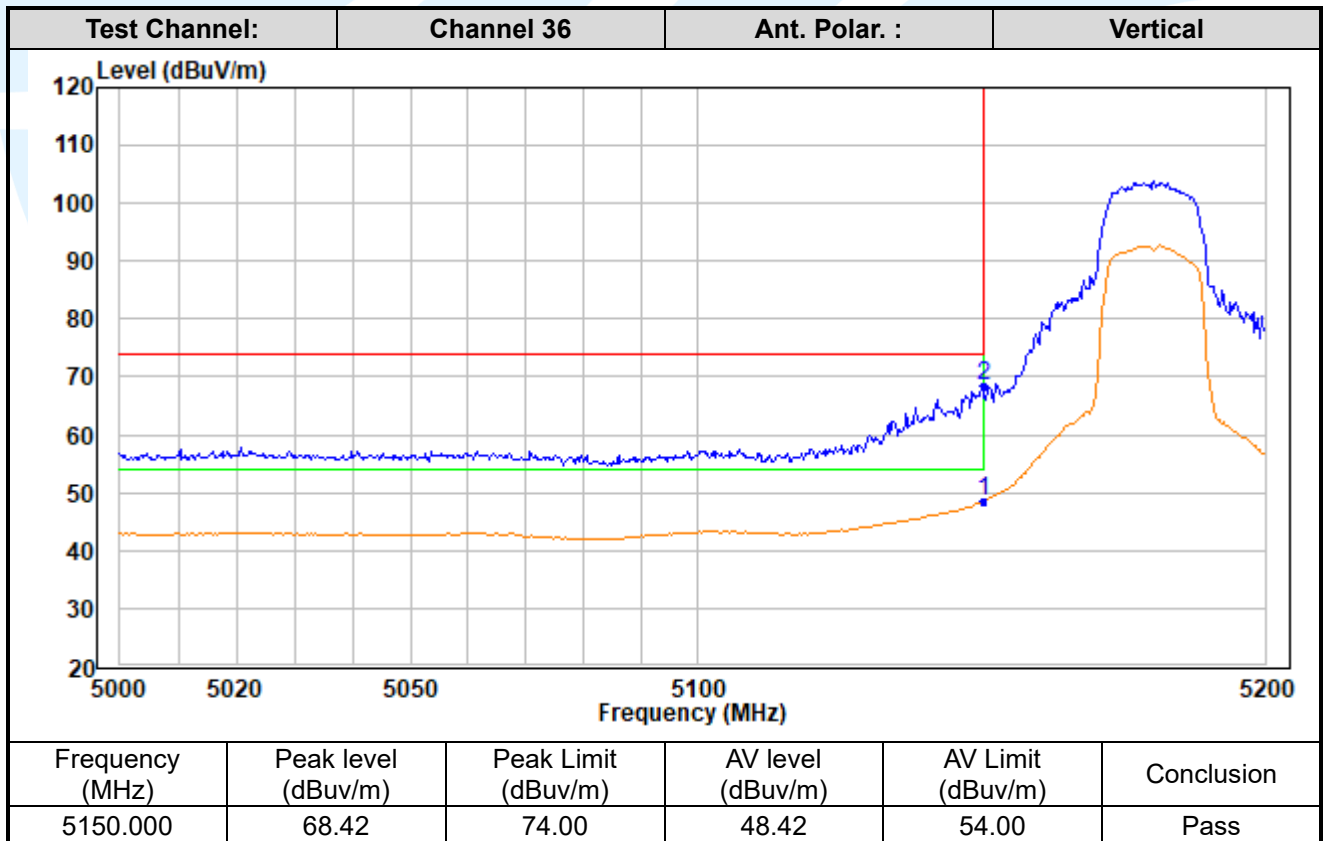
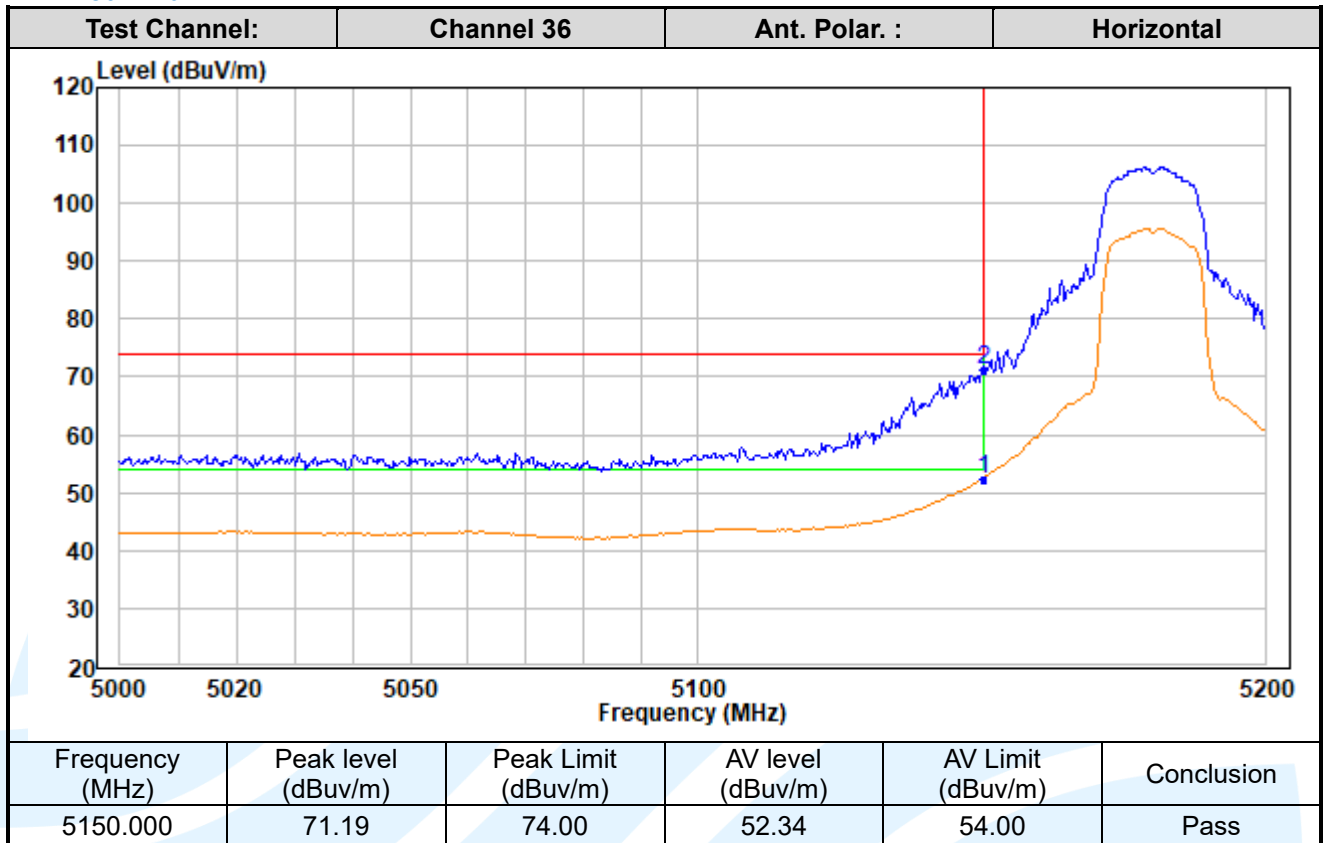
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
IEEE 802.11ac-VHT80_Channel 138								
1	11380	32.8	2.1	34.9	54	-19.1	Average	Horizontal
2	11380	45.1	2.1	47.2	74	-26.8	Peak	Horizontal
3	17070	31.6	8.8	40.3	54	-13.7	Average	Horizontal
4	17070	44.2	8.8	53.0	68.2	-15.3	Peak	Horizontal
5	11380	32.8	2.1	34.9	54	-19.1	Average	Vertical
6	11380	46.0	2.1	48.1	74	-25.9	Peak	Vertical
7	17070	31.6	8.8	40.4	54	-13.6	Average	Vertical
8	17070	44.6	8.8	53.3	68.2	-14.9	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

Band Edge Measurements (Radiated): Worst-Case Configuration

IEEE 802.11a



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