



Certificate #4312.01

TEST REPORT

Product Name: Indoor Wi-Fi 6 Access Point
Trade Mark: GRANDSTREAM
Model No.: GWN7662
Report Number: 2302143987RFC-2
Test Standards: FCC 47 CFR Part 15 Subpart E
FCC ID: YZZGWN7662
Test Result: PASS
Date of Issue: April 14, 2023

Prepared for:

Grandstream Networks, Inc.
126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd.
Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China
TEL: +86-755-2823 0888
FAX: +86-755-2823 0886

Prepared by:

Kieron Luo

Project Engineer

UnionTrust

Certified
Kevin Liang

Assistant Manager

Reviewed by:

Henry Lu

Team Leader

Approved by:

Date:

April 14, 2023

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Version

Version No.	Date	Description
V1.0	April 14, 2023	Original



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

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CONTENTS

1. GENERAL INFORMATION	4
1.1 CLIENT INFORMATION	4
1.2 EUT INFORMATION	4
1.2.1 GENERAL DESCRIPTION OF EUT	4
1.2.2 DESCRIPTION OF ACCESSORIES	4
1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	5
1.4 OTHER INFORMATION	6
1.5 DESCRIPTION OF SUPPORT UNITS	6
1.6 TEST LOCATION	7
1.7 TEST FACILITY	7
1.8 DEVIATION FROM STANDARDS	7
1.9 ABNORMALITIES FROM STANDARD CONDITIONS	7
1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
1.11 MEASUREMENT UNCERTAINTY	8
2. TEST SUMMARY	9
3. EQUIPMENT LIST	10
4. TEST CONFIGURATION	11
4.1 ENVIRONMENTAL CONDITIONS FOR TESTING	11
4.1.1 NORMAL OR EXTREME TEST CONDITIONS	11
4.1.2 RECORD OF NORMAL ENVIRONMENT AND TEST SAMPLE	11
4.2 TEST CHANNELS	12
4.3 EUT TEST STATUS	13
4.4 PRE-SCAN	14
4.5 TEST SETUP	15
4.5.1 FOR RADIATED EMISSIONS TEST SETUP	15
4.5.2 FOR CONDUCTED EMISSIONS TEST SETUP	16
4.5.3 FOR CONDUCTED RF TEST SETUP	17
4.6 SYSTEM TEST CONFIGURATION	18
4.7 DUTY CYCLE	19
5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION	23
5.1 REFERENCE DOCUMENTS FOR TESTING	23
5.2 ANTENNA REQUIREMENT	23
5.3 26 DB BANDWIDTH	24
5.4 6 DB BANDWIDTH	25
5.5 MAXIMUM CONDUCTED OUTPUT POWER	26
5.6 PEAK POWER SPECTRAL DENSITY	32
5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT	34
5.8 AC POWER LINE CONDUCTED EMISSION	168
APPENDIX A RF TEST DATA	171
A.1 99% BANDWIDTH	171
A.2 26dB BANDWIDTH	266
A.3 6 DB BANDWIDTH	339
A.4 PEAK POWER SPECTRAL DENSITY	361
APPENDIX 1 PHOTOS OF TEST SETUP	454
APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS	454

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.
Address of Applicant:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Manufacturer:	Grandstream Networks, Inc.
Address of Manufacturer:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Indoor Wi-Fi 6 Access Point		
Model No.:	GWN7662		
Trade Mark:	GRANDSTREAM		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n/ax	
	U-NII 5 GHz Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac/ax
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac/ax
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac/ax
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac/ax
Software Version:	1.0.22.1 (Provided by the customer)		
Hardware Version:	V1.0 (Provided by the customer)		
Sample Received Date:	February 14, 2023		
Sample Tested Date:	February 14, 2023 to March 28, 2023		

1.2.2 Description of Accessories

Others
1x Mounting Bracket, 1x Ceiling Mounting Bracket

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)				
	5725 MHz to 5850 MHz (U-NII-3)				
Frequency Ranges:	5180 MHz to 5240 MHz				
	5260 MHz to 5320 MHz				
	5500 MHz to 5700 MHz				
	5745 MHz to 5825 MHz				
Support Standards:	IEEE 802.11a/n/ac/ax				
TPC Function:	Not Support				
DFS Operational mode:	Master				
Type of Modulation:	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11ax:				
	☒ OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) ☒ OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)				
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz				
	IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz				
	IEEE 802.11ac-VHT80/ax-HE80: 80 MHz				
	IEEE 802.11ac-VHT160/ax-HE160: 160 MHz				
Data Rate:	IEEE 802.11a: Up to 54 Mbps				
	IEEE 802.11n: Up to MCS31				
	IEEE 802.11ac-VHT20: Up to MCS8				
	IEEE 802.11ac-VHT40/VHT80/VHT160: Up to MCS9				
	IEEE 802.11ax-HE20/HE40/HE80/HE160: Up to MCS11				
Number of Channels:	5150 MHz to 5350 MHz:				
	8 for 802.11a/n-HT20/ac-VHT20/ax-HE20				
	4 for 802.11n-HT40/ac-VHT40/ax-HE40				
	2 for 802.11ac-VHT80/ax-HE80				
	1 for 802.11ac-VHT160/ax-HE160				
	5470 MHz to 5725 MHz:				
	11 for 802.11a/n-HT20/ac-VHT20/ax-HE20				
	5 for 802.11n-HT40/ac-VHT40/ax-HE40				
	2 for 802.11ac-VHT80/ax-HE80				
	1 for 802.11ac-VHT160/ax-HE160				
	5725 MHz to 5850 MHz:				
	5 for IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20				
	2 for IEEE 802.11n-HT40/ac-VHT40/ax-HE40				
	1 for IEEE 802.11ac-VHT80/ax-HE80				
Antenna Type: (Provided by the customer)	Antenna 0:	PIFA Antenna			
	Antenna 1:	PIFA Antenna			
	Antenna 2:	PIFA Antenna			
	Antenna 3:	PIFA Antenna			
Antenna Gain (dBi): (Provided by the customer)	Antenna	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	Antenna 0:	5.26	5.26	5.26	5.26
	Antenna 1:	5.26	5.26	5.26	5.26
	Antenna 2:	5.26	5.26	5.26	5.26
	Antenna 3:	5.26	5.26	5.26	5.26
Maximum conducted output power (dBm):	Mode	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	20.00	20.19	19.74	19.31

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

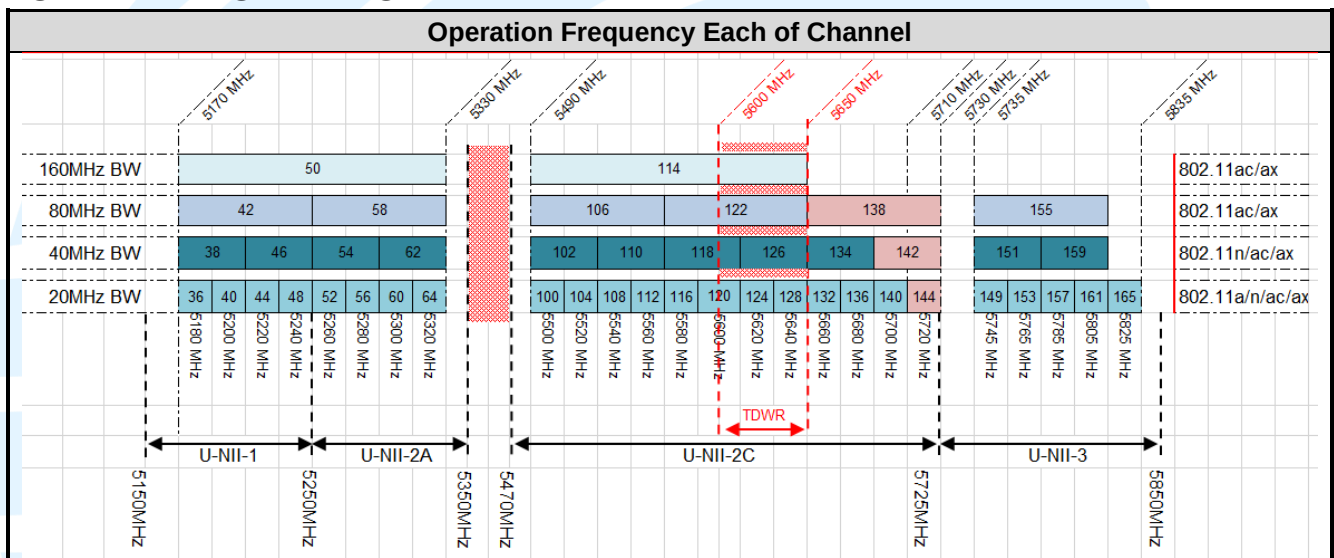
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	IEEE 802.11n-HT20:	20.69	14.36	14.54	23.89
	IEEE 802.11n-HT40:	14.69	14.49	13.56	23.75
	IEEE 802.11ac-VHT20	20.65	14.34	14.50	23.88
	IEEE 802.11ac-VHT40	14.88	14.44	13.50	23.68
	IEEE 802.11ac-VHT80:	15.25	14.71	11.19	19.29
	IEEE802.11ac-VHT80+80	/	14.57	12.88	/
	IEEE 802.11ac-VHT160	/	14.27	12.45	/
	IEEE 802.11ax-HE20:	20.13	16.08	14.88	24.27
	IEEE 802.11ax-HE40:	15.01	14.56	13.69	23.81
	IEEE 802.11ax-HE80:	15.54	15.01	11.00	20.54
	IEEE802.11ax-HE80+80	/	14.64	12.87	/
	IEEE 802.11ax-HE160:	/	14.55	12.71	/
Normal Test Voltage:		48 Vdc			

1.4 OTHER INFORMATION



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
POE	Gospower	G0720-480-050	N/A	N/A	Applicant
Key-Press Attenuator	Huaxin	KT2.5-90/1S-2S	N/A	N/A	UnionTrust
4 Way Divider	WOKEN	0120A040560002 D	N/A	N/A	UnionTrust
Wireless Router	SAGEMCOM	RAC2V1S	253703944	VW3FAST5280	UnionTrust
Notebook	DELL	Latitude 3400	16238087894	N/A	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	N/A	UnionTrust
Enterprise Full Touch Handheld Computer	Bluebird Inc.	EF551	N/A	N/A	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Ethernet Cable*2	RJ45	1.5 Unshielded without ferrite	UnionTrust
2	Antenna Cable*2	SMA	0.1	UnionTrust

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

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 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.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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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: ± 6.4 x 10 ⁻⁸
12	Transmission Time	± 0.19 %

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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 D02 UNII DFS Compliance Procedures New Rules v02	PASS Note2
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
Note: 1) N/A: In this whole report not applicable. 2) Please refer to Report No.: 2302143987RFC-3 for DFS Test report.			
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.			

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	22-Jan-2021	21-Jan-2024
☒	Receiver	R&S	ESIB26	100114	3-Nov-2022	2-Nov-2023
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	15-Apr-2022	14-Apr-2023
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	11-Nov-2021	10-Nov-2023
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	11-Nov-2021	10-Nov-2023
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	11-Nov-2021	10-Nov-2023
☒	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	17-Apr-2022	16-Apr-2024
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	21-Nov-2022	20-Nov-2023
☒	Band Rejection Filter (5150MHz~5880MHz)	Micro-Tronics	BRM50716	G186	2-Nov-2022	1-Nov-2023
☒	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	1-Nov-2022	31-Oct-2023
☒	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	1-Nov-2022	31-Oct-2023
☒	LISN	R&S	ESH2-Z5	860014/024	1-Nov-2022	31-Oct-2023
☐	LISN	ETS-Lindgren	3816/2SH	00201088	1-Nov-2022	31-Oct-2023
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted RF test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	15-Apr-2022	14-Apr-2023
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	1-Nov-2022	31-Oct-2023
☐	EXG-B RF Analog Signal Generator	KEYSIGHT	N5171B	MY53051777	02-Jun-2022	01-Jun-2023
☒	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	1-Nov-2022	31-Oct-2023
☒	Spectrum Analyzer	R&S	FSV40-N	101653	15-Apr-2022	14-Apr-2023

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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	48Vdc	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	25.6	42.1	100.5	S202302141092-ZJA03/5	Andy Lin
26 dB emission bandwidth	24.8	51	100.4	S202302141092-ZJA02/5	Rain Wang
Maximum conducted output power					
Peak Power Spectral Density					
6 dB bandwidth	24.8	51	100.4	S202302141092-ZJA04/5	Rain Wang
Dynamic Frequency Selection					
Radiated Emissions and Band Edge Measurement	23.8	45.9	100.4	S202302141092-ZJA03/5	Lucas Ouyang

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 IEEE 802.11ax-HE20	5150 - 5250 MHz	Channel 36	Channel 44	Channel 48
		5180 MHz	5220 MHz	5240 MHz
	5250 - 5350 MHz	Channel 52	Channel 60	Channel 64
		5260 MHz	5300 MHz	5320 MHz
	5470 - 5725 MHz	Channel 100	Channel 116	Channel 140
		5500 MHz	5580 MHz	5700 MHz
	5725 - 5850 MHz	Channel 149	Channel 157	Channel 165
		5745 MHz	5785 MHz	5825 MHz
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40 IEEE 802.11ax-HE40	5150 - 5250 MHz	Channel 38	--	Channel 46
		5190 MHz	--	5230 MHz
	5250 - 5350 MHz	Channel 54	--	Channel 62
		5270 MHz	--	5310 MHz
	5470 - 5725 MHz	Channel 102	Channel 110	Channel 134
		5510 MHz	5550 MHz	5670 MHz
	5725 - 5850 MHz	Channel 151	--	Channel 159
		5755 MHz	--	5795 MHz
IEEE 802.11ac-VHT80 IEEE 802.11ax-HE80	5150 - 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 - 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 - 5725 MHz	Channel 106	--	--
		5530 MHz	--	--
	5725 - 5850 MHz	--	Channel 155	--
		--	5775 MHz	--
IEEE 802.11ac-VHT80+80 IEEE 802.11ac-VHT160 IEEE 802.11ac-VHT80+80 IEEE 802.11ax-HE160	5150 - 5350 MHz	Channel 50		
		5250 MHz		
	5470 - 5725 MHz	Channel 114		
		5570 MHz		
IEEE 802.11ac-VHT80+80 IEEE 802.11ax-HE160	5725 - 5850 MHz			

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11a	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with modulation and data rates test single. 2. Keep the equipment in normal operation and achieve a certain throughput.
IEEE 802.11n	4Tx/4Rx	
IEEE 802.11ac		
IEEE 802.11ax		

Mode	U-NII-1				U-NII-2A				U-NII-2C				U-NII-3			
	Ant .0	Ant .1	Ant .2	Ant .3	Ant .0	Ant .1	Ant .2	Ant .3	Ant .0	Ant .1	Ant .2	Ant .3	Ant .0	Ant .1	Ant .2	Ant .3
IEEE 802.11a	19	19	19	19	19	19	19	19	17	19	17	19	19	19	19	19
IEEE 802.11n-HT20	15	15	15	15	9	9	9	9	9	9	9	9	19	19	19	19
IEEE 802.11n-HT40	9	9	9	9	9	9	9	9	8	8	8	8	19	19	19	19
IEEE 802.11ac-VHT20	15	15	15	15	9	9	9	9	9	9	9	9	19	19	19	19
IEEE 802.11ac-VHT40	9	9	9	9	9	9	9	9	8	8	8	8	19	19	19	19
IEEE 802.11ac-VHT80	10	10	10	10	10	10	10	10	8	8	8	8	15	15	15	15
IEEE 802.11ac-VHT80+80	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-
IEEE 802.11ac-VHT160	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-
IEEE 802.11ax-HE20 (26RU)	10	10	10	10	5	5	5	5	5	5	5	5	19	19	19	19
					7	7	7	7	4	4	4	4	17	18	17	17
					6	6	6	6	5	5	5	5	17	18	17	17
IEEE 802.11ax-HE20 (52RU)	11	11	11	11	8	8	8	8	5	5	5	5	18	18	18	18
									5	5	5	5	17	18	17	17
									7	7	7	7	17	18	17	17
IEEE 802.11ax-HE20 (106RU)	11	11	11	11	10	10	10	10	5	5	5	5	18	18	18	18
													17	18	17	17
													18	18	17	17
IEEE 802.11ax-HE20 (SU)	14	14	14	14	11	11	11	11	9	9	9	9	19	19	19	19
IEEE 802.11ax-HE40 (SU)	9	9	9	9	9	9	9	9	8	8	8	8	19	19	19	19
IEEE 802.11ax-HE80 (SU)	10	10	10	10	10	10	10	10	6	6	6	6	16	16	16	16
IEEE 802.11ax-HE80+80	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-
IEEE 802.11ax-HE160	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-

Test Software (Provided by the customer)

Test software name: QRCT 4.0;

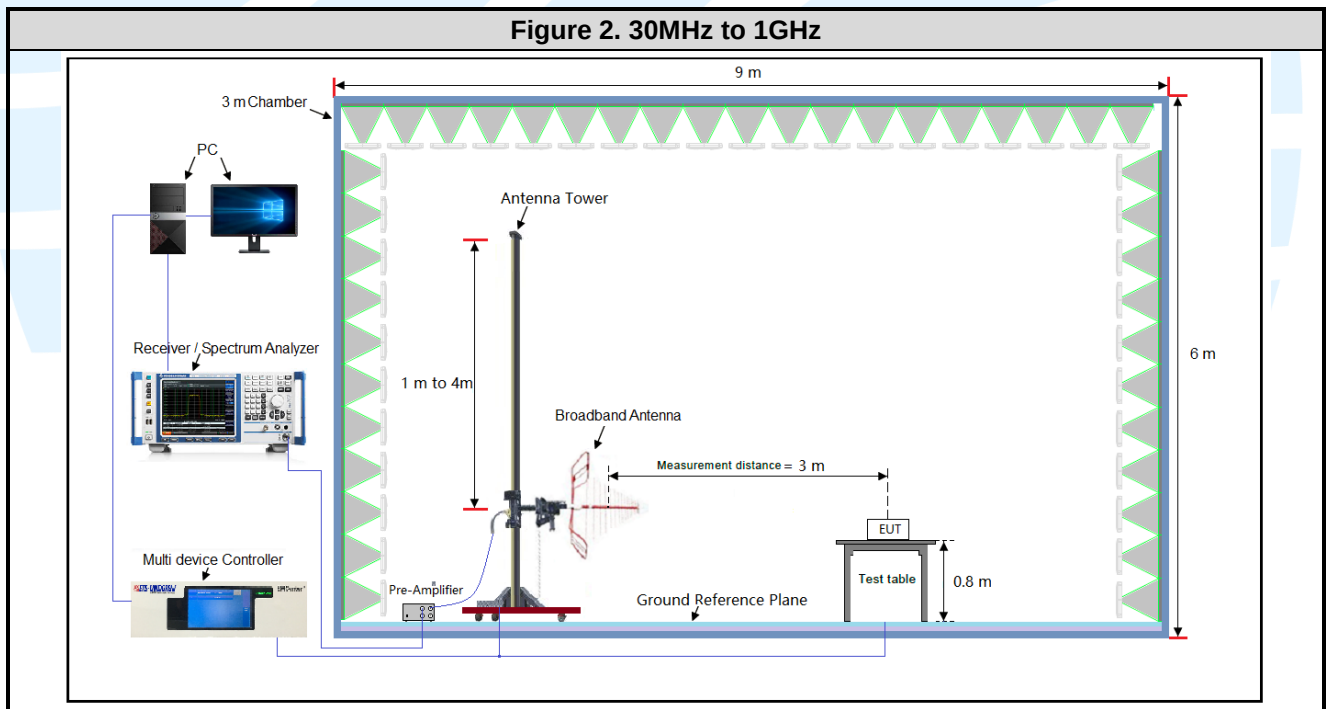
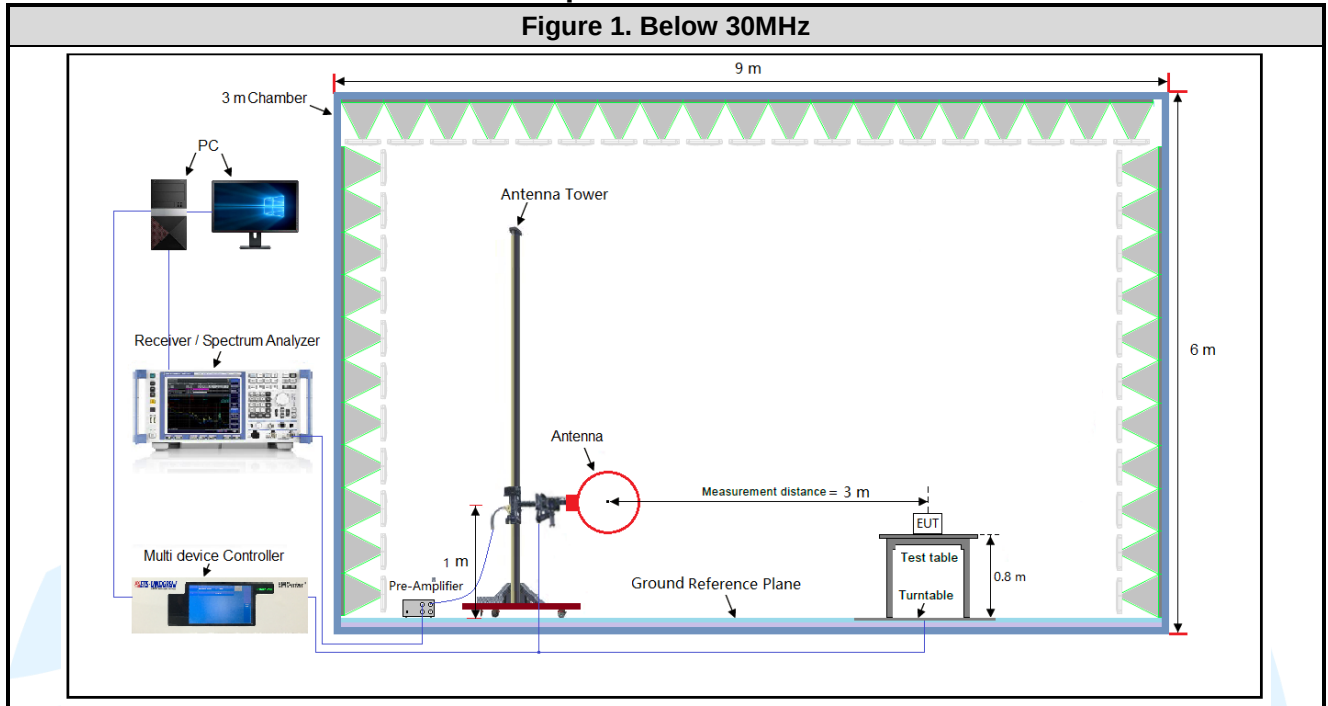
4.4 PRE-SCAN

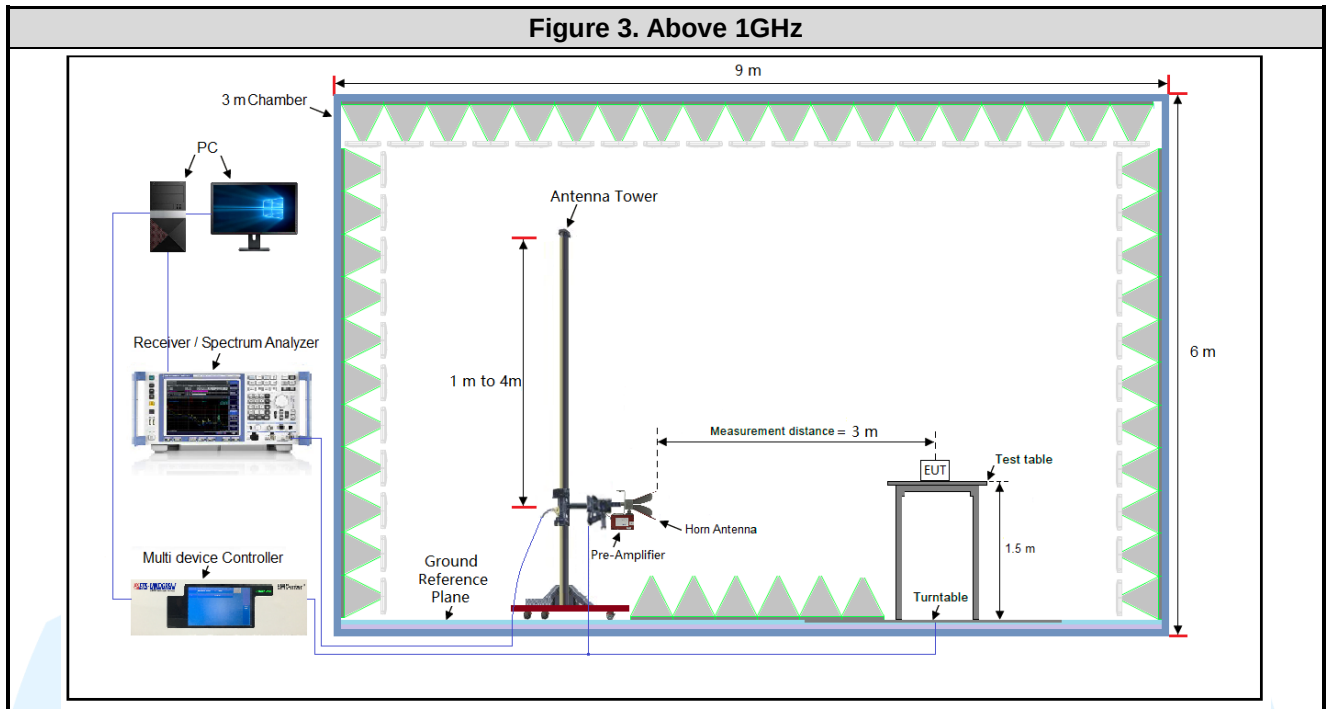
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Following data rate was (were) selected for the final test as listed below

Mode	Worst-case data rates
IEEE 802.11a	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0
IEEE 802.11ac-VHT20	MCS0
IEEE 802.11ac-VHT40	MCS0
IEEE 802.11ac-VHT80	MCS0
IEEE 802.11ac-VHT80+80	MCS0
IEEE 802.11ac-VHT160	MCS0
IEEE 802.11ax-HE20	MCS0
IEEE 802.11ax-HE40	MCS0
IEEE 802.11ax-HE80	MCS0
IEEE 802.11ax-HE80+80	MCS0
IEEE 802.11ax-HE160	MCS0

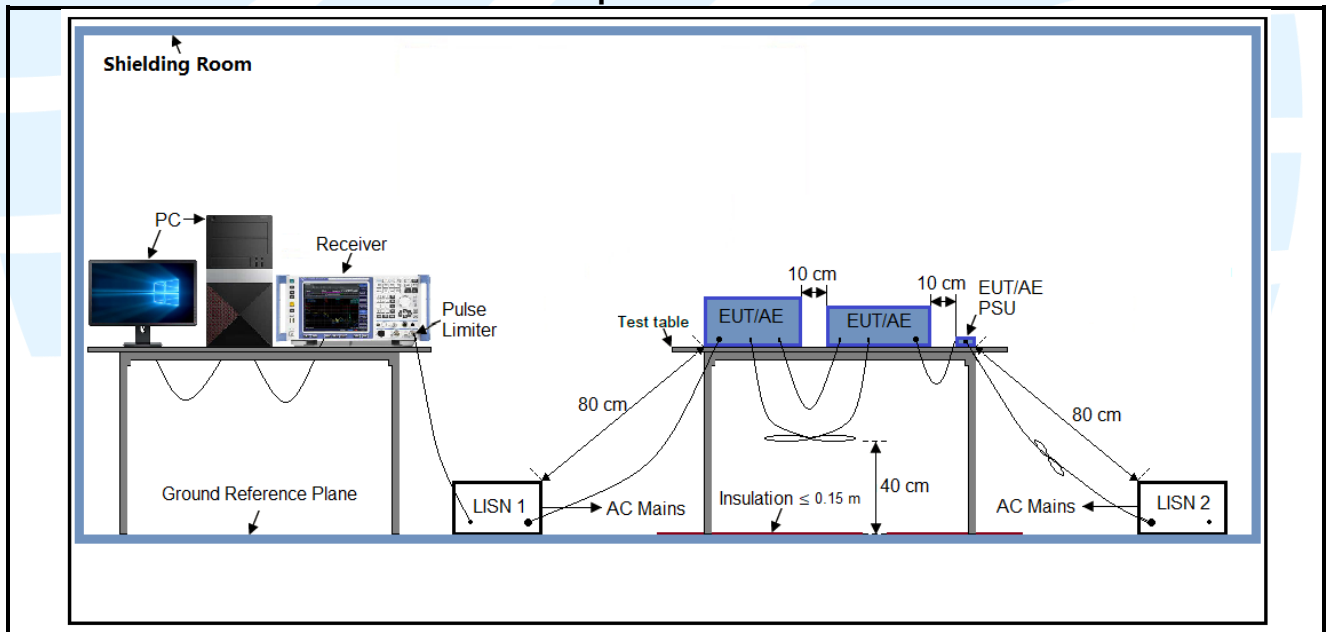
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

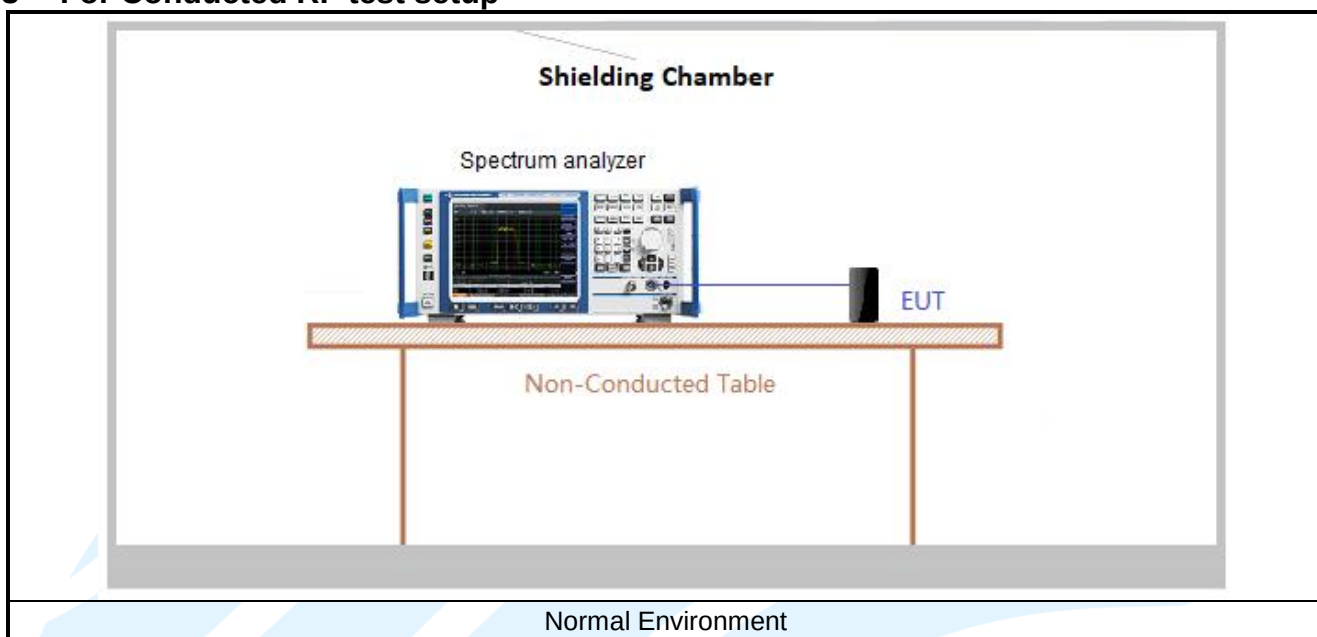




4.5.2 For Conducted Emissions test setup



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. 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.

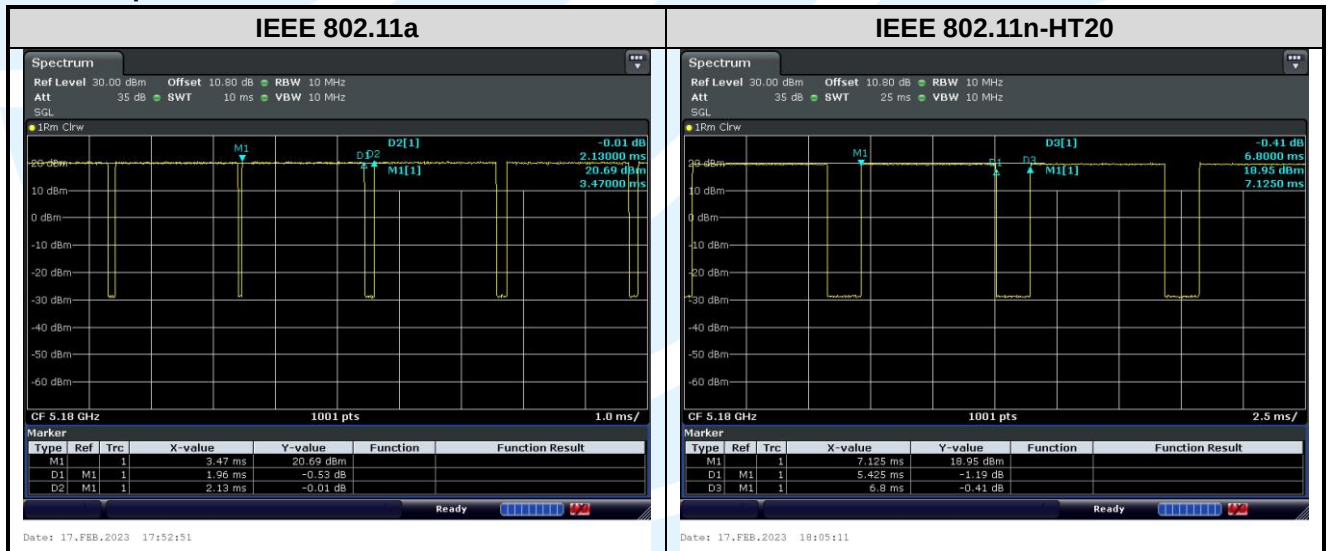
Test Results

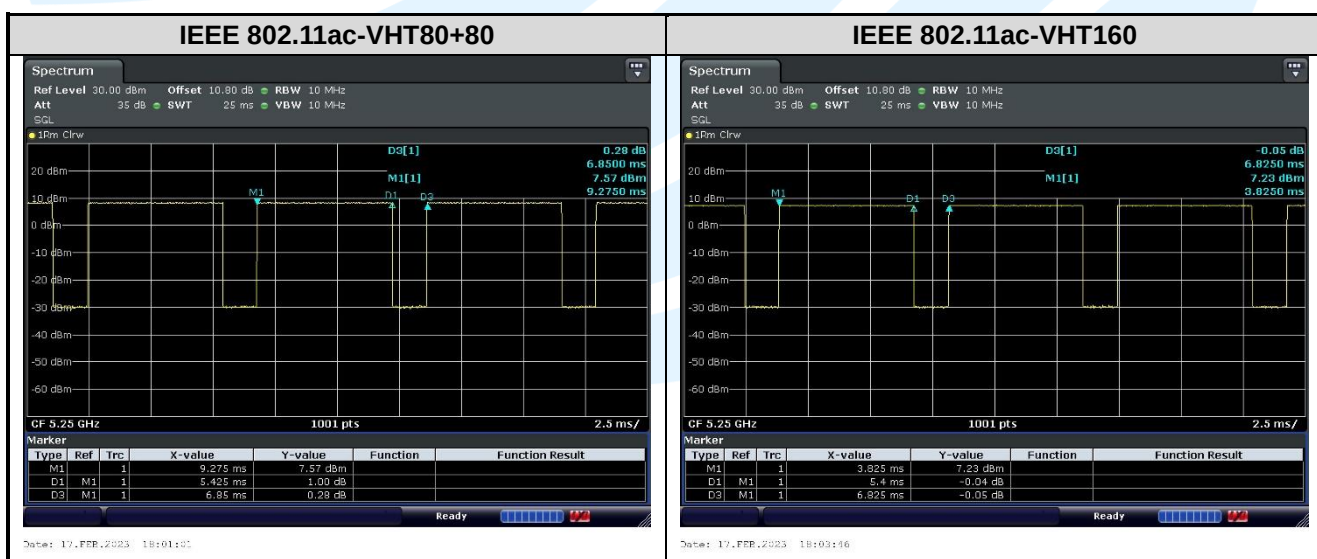
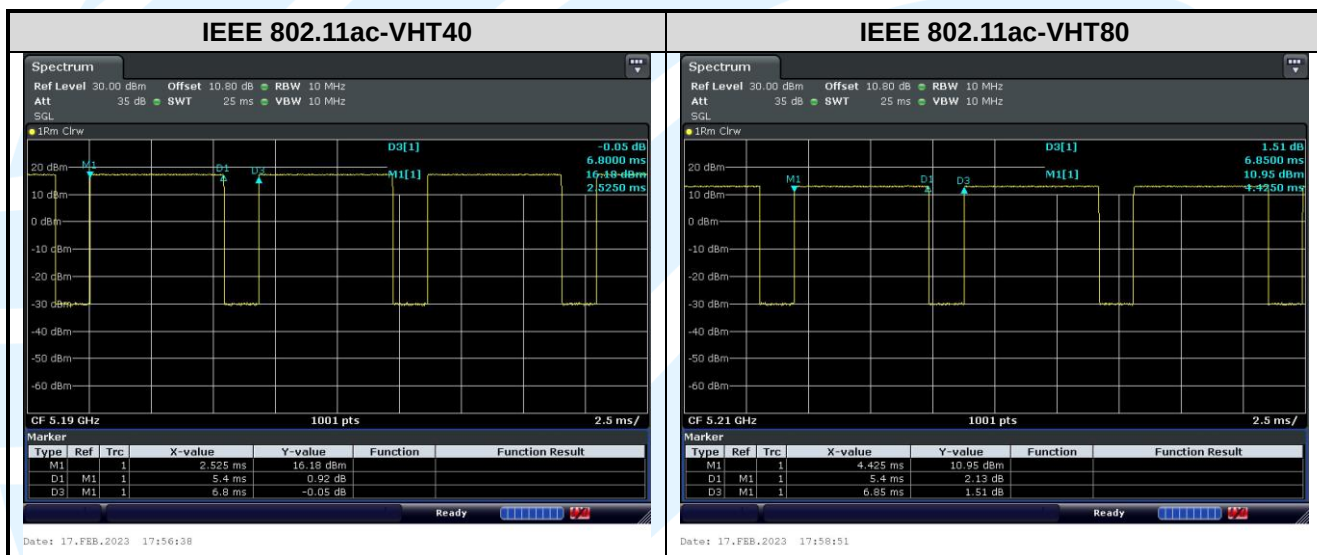
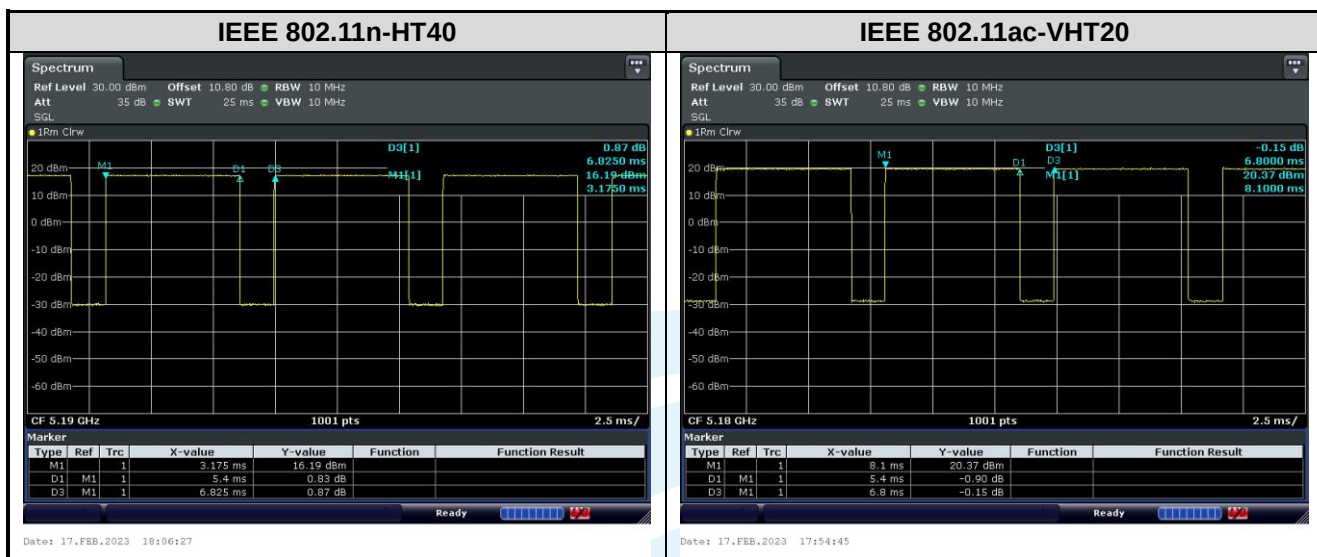
Mode	RU	Data Rates	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
IEEE 802.11a	N/A	6 Mbps	1.960	2.130	0.92	92.02	0.36	0.51
IEEE 802.11n-HT20	N/A	MCS 0	5.425	6.800	0.80	79.78	0.98	0.18
IEEE 802.11n-HT40	N/A	MCS 0	5.400	6.825	0.79	79.12	1.02	0.19
IEEE 802.11ac-VHT20	N/A	MCS 0	5.400	6.800	0.79	79.41	1.00	0.19
IEEE 802.11ac-VHT40	N/A	MCS 0	5.400	6.800	0.79	79.41	1.00	0.19
IEEE 802.11ac-VHT80	N/A	MCS 0	5.400	6.850	0.79	78.83	1.03	0.19
IEEE 802.11ac-VHT80+80	N/A	MCS 0	5.425	6.850	0.79	79.20	1.01	0.18
IEEE 802.11ac-VHT160	N/A	MCS 0	5.400	6.825	0.79	79.12	1.02	0.19
IEEE 802.11ax-HE20	26RU0	MCS 0	5.120	5.760	0.89	88.89	0.51	0.20
IEEE 802.11ax-HE20	52RU37	MCS 0	5.120	5.740	0.89	89.20	0.50	0.20
IEEE 802.11ax-HE20	106RU53	MCS 0	5.300	5.860	0.90	90.44	0.44	0.19
IEEE 802.11ax-HE20	SU	MCS 0	5.400	6.825	0.79	79.12	1.02	0.19
IEEE 802.11ax-HE40	SU	MCS 0	5.375	6.800	0.79	79.04	1.02	0.19
IEEE 802.11ax-HE80	SU	MCS 0	5.400	6.800	0.79	79.41	1.00	0.19
IEEE 802.11ax-HE80+80	SU	MCS 0	5.400	6.850	0.79	78.83	1.03	0.19
IEEE 802.11ax-HE160	SU	MCS 0	5.400	6.850	0.79	78.83	1.03	0.19

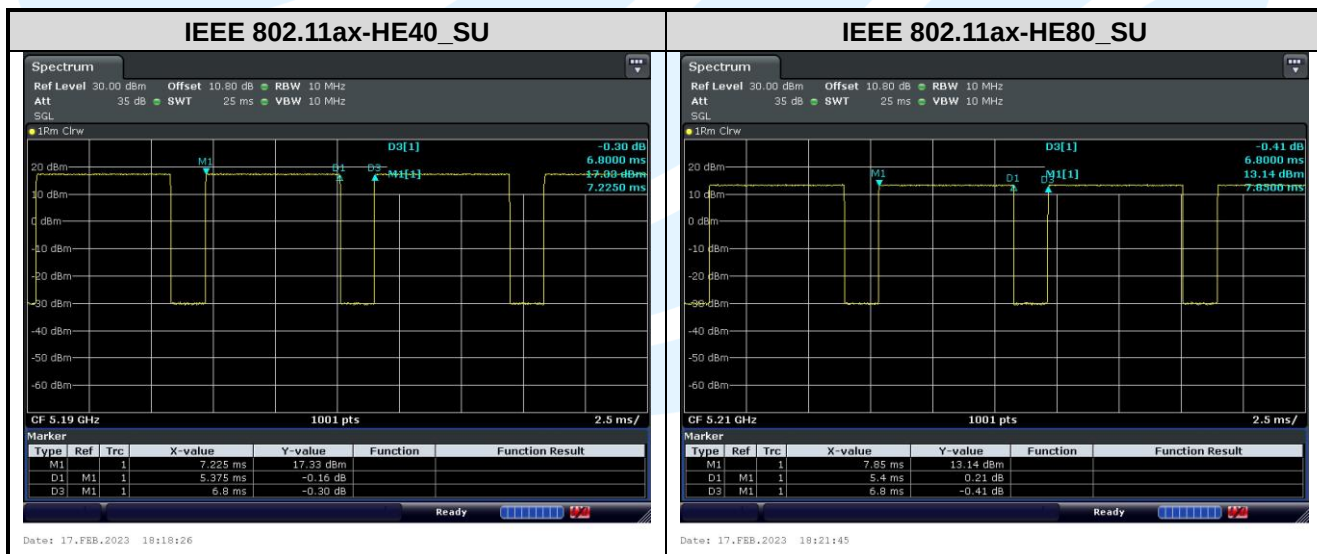
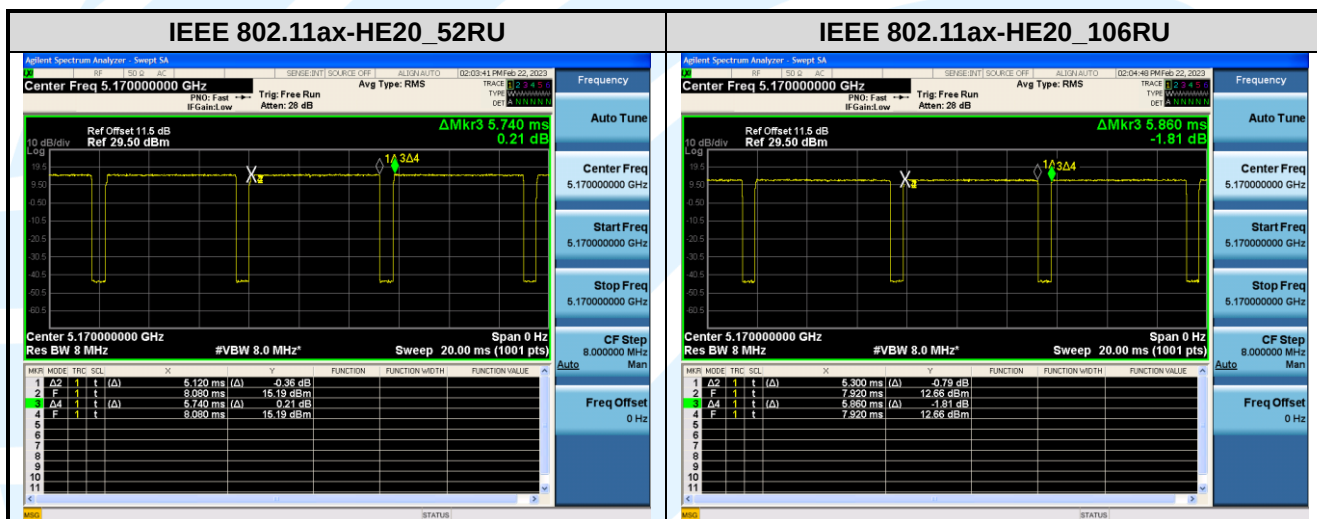
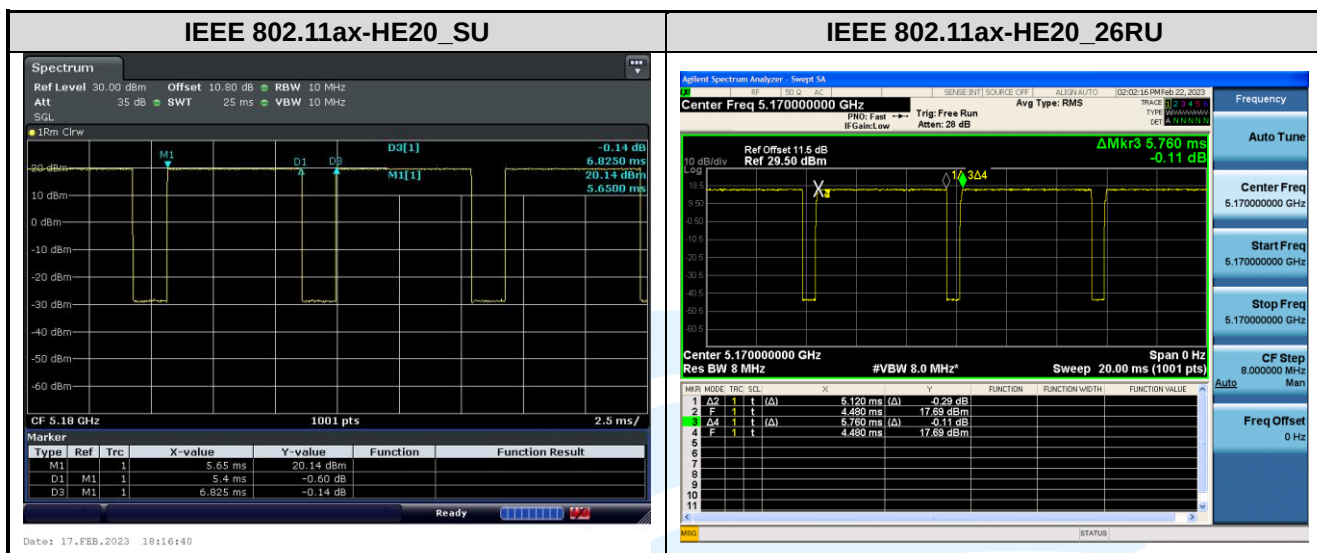
Remark:

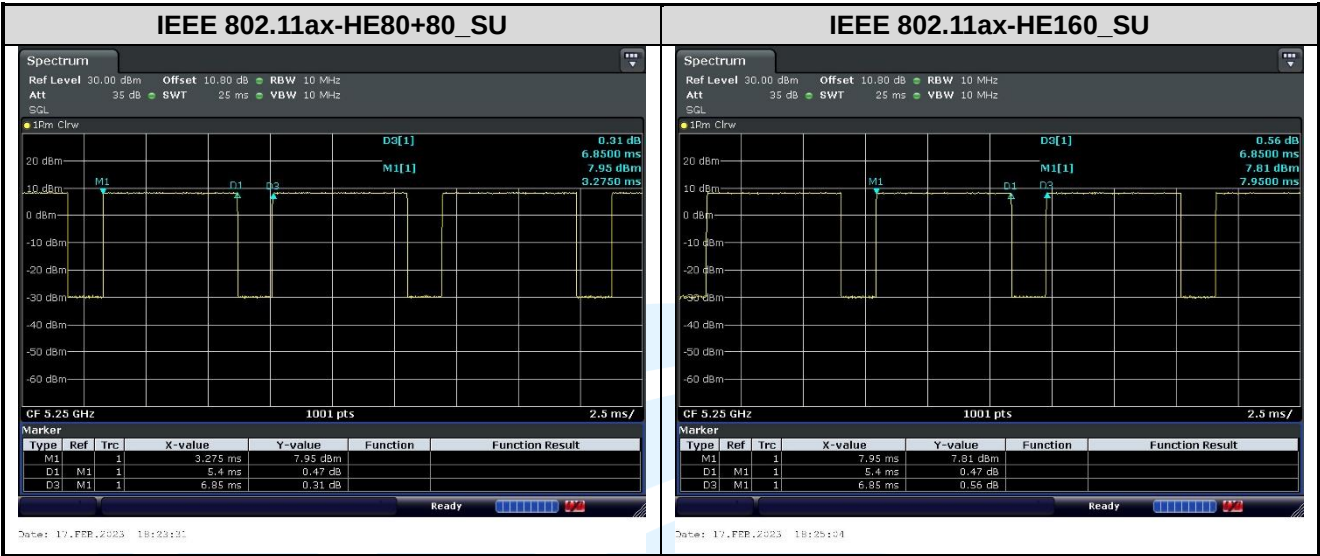
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle)

The test plots as follows









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 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

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: All antennas (4 Antennas) in the interior of the equipment and no consideration of replacement. The transmit signals are correlated with each other, the best case directional gain of the antenna is 11.28 dBi. (See section 5.5).

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 Results: Pass

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: Transmitter mode

Test Results: Pass

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 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:

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:

Directional gain and the maximum output power limit.

Frequency (MHz)	Antenna Gain (dBi)				Directional gain (dBi)		Limit	
	Ant .0	Ant .1	Ant .2	Ant .3	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	5.26	5.26	5.26	5.26	5.26	11.28	30	11.72
U-NII-2A	5.26	5.26	5.26	5.26	5.26	11.28	24	5.72
U-NII-2C	5.26	5.26	5.26	5.26	5.26	11.28	24	5.72
U-NII-3	5.26	5.26	5.26	5.26	5.26	11.28	30	24.72

For CDD transmissions, directional gain is calculated as follows. In all formulas,

N_{ANT} = number of transmit antennas and

N_{SS} = number of spatial streams. (Assume $N_{SS} = 1$ unless you have specific information to the contrary.)

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For Uncorrelated transmissions, directional gain is calculated as follows. In all formulas:

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

For U-NII-2A :

IEEE 802.11a/n/ac/ax: the minimum 26 dB emission bandwidth is 18.11 MHz

$11 \text{ dBm} + 10 \log_{10}(18.11) = 23.58 \text{ dBm} < 24 \text{ dBm}$

So the 23.58 dB limit applicable

For U-NII-2C Band:

IEEE 802.11a: the minimum 26 dB emission bandwidth is 17.98 MHz

$11 \text{ dBm} + 10 \log_{10}(17.98) = 23.55 \text{ dBm} < 24 \text{ dBm}$

So the 23.55 dB limit applicable

Maximum output power

Mode	Band	Freq. (MHz)	RU	CONDUCTED AVG POWER									Limit (dBm)	Result
				Meas Value (dBm)				Corr'd Value (dBm)						
				Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total		
IEEE 802.11a	U-NII-1	5180	N/A	19.46	19.64	18.11	17.22	19.82	20.00	18.47	17.58	N/A	30	Pass
		5220	N/A	18.54	17.62	17.67	16.86	18.90	17.98	18.03	17.22	N/A	30	Pass
		5240	N/A	17.59	16.33	17.54	16.48	17.95	16.69	17.90	16.84	N/A	30	Pass
	U-NII-2A	5260	N/A	17.56	16.31	18.16	16.79	17.92	16.67	18.52	17.15	N/A	23.58	Pass
		5300	N/A	17.46	16.45	19.18	17.56	17.82	16.81	19.54	17.92	N/A	23.58	Pass
		5320	N/A	17.77	17.07	19.83	18.38	18.13	17.43	20.19	18.74	N/A	23.58	Pass
	U-NII-2C	5500	N/A	15.67	19.38	14.10	15.94	16.03	19.74	14.46	16.30	N/A	23.55	Pass
		5580	N/A	16.41	17.88	15.45	15.98	16.77	18.24	15.81	16.34	N/A	23.55	Pass
		5700	N/A	15.69	17.56	17.65	18.73	16.05	17.92	18.01	19.09	N/A	23.55	Pass
	U-NII-3	5745	N/A	16.66	16.78	17.66	17.26	17.02	17.14	18.02	17.62	N/A	30	Pass
		5785	N/A	16.79	17.62	16.96	16.48	17.15	17.98	17.32	16.84	N/A	30	Pass
		5825	N/A	17.91	18.95	17.55	17.10	18.27	19.31	17.91	17.46	N/A	30	Pass
IEEE 802.11n -HT20	U-NII-1	5180	N/A	14.63	14.70	12.92	11.84	15.61	15.68	13.90	12.82	20.69	30	Pass
		5220	N/A	13.57	12.62	12.42	11.71	14.55	13.60	13.40	12.69	19.63	30	Pass
		5240	N/A	12.78	11.46	12.38	11.65	13.76	12.44	13.36	12.63	19.10	30	Pass
	U-NII-2A	5260	N/A	6.42	5.33	6.86	6.01	7.40	6.31	7.84	6.99	13.19	23.58	Pass
		5300	N/A	5.92	5.43	8.00	6.36	6.90	6.41	8.98	7.34	13.54	23.58	Pass
		5320	N/A	6.66	6.12	8.80	7.38	7.64	7.10	9.78	8.36	14.36	23.58	Pass
	U-NII-2C	5500	N/A	6.93	8.74	5.15	4.95	7.91	9.72	6.13	5.93	13.73	23.55	Pass
		5580	N/A	6.87	7.43	6.21	5.56	7.85	8.41	7.19	6.54	13.58	23.55	Pass
		5700	N/A	6.71	6.61	8.53	7.98	7.69	7.59	9.51	8.96	14.54	23.55	Pass
	U-NII-3	5745	N/A	15.60	15.77	16.61	16.40	16.58	16.75	17.59	17.38	23.12	30	Pass
		5785	N/A	15.81	16.69	15.84	15.42	16.79	17.67	16.82	16.40	22.97	30	Pass
		5825	N/A	16.85	17.82	16.52	16.18	17.83	18.80	17.50	17.16	23.89	30	Pass
IEEE 802.11n -HT40	U-NII-1	5190	N/A	9.04	7.78	7.18	6.08	10.06	8.80	8.20	7.10	14.69	30	Pass
		5230	N/A	7.59	6.30	6.56	6.00	8.61	7.32	7.58	7.02	13.69	30	Pass
	U-NII-2A	5270	N/A	6.74	5.73	7.73	6.60	7.76	6.75	8.75	7.62	13.80	23.58	Pass
		5310	N/A	7.00	6.12	8.93	7.25	8.02	7.14	9.95	8.27	14.49	23.58	Pass
	U-NII-2C	5510	N/A	6.60	7.90	4.82	4.52	7.62	8.92	5.84	5.54	13.22	23.55	Pass
		5550	N/A	6.45	7.43	5.67	4.89	7.47	8.45	6.69	5.91	13.25	23.55	Pass
	U-NII-3	5670	N/A	6.40	5.76	7.39	6.37	7.42	6.78	8.41	7.39	13.56	23.55	Pass
		5755	N/A	16.08	16.26	17.04	16.66	17.10	17.28	18.06	17.68	23.56	30	Pass

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Mode	Band	Freq. (MHz)	RU	CONDUCTED AVG POWER									Limit (dBm)	Result
				Meas Value (dBm)				Corr'd Value (dBm)						
				Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total		
		5795	N/A	16.67	17.45	16.56	16.04	17.69	18.47	17.58	17.06	23.75	30	Pass
IEEE 802.11ac -VHT20	U-NII-1	5180	N/A	14.59	14.70	12.76	11.75	15.59	15.70	13.76	12.75	20.65	30	Pass
		5220	N/A	13.56	12.58	12.28	11.64	14.56	13.58	13.28	12.64	19.59	30	Pass
		5240	N/A	12.75	11.49	12.33	11.65	13.75	12.49	13.33	12.65	19.11	30	Pass
		5260	N/A	6.43	5.39	6.74	5.95	7.43	6.39	7.74	6.95	13.18	23.58	Pass
	U-NII-2A	5300	N/A	6.40	5.54	7.89	6.31	7.40	6.54	8.89	7.31	13.64	23.58	Pass
		5320	N/A	6.65	6.12	8.73	7.31	7.65	7.12	9.73	8.31	14.34	23.58	Pass
		5500	N/A	6.88	8.66	5.07	4.88	7.88	9.66	6.07	5.88	13.68	23.55	Pass
		5580	N/A	6.79	7.21	6.22	5.12	7.79	8.21	7.22	6.12	13.43	23.55	Pass
	U-NII-2C	5700	N/A	6.68	6.58	8.47	7.88	7.68	7.58	9.47	8.88	14.50	23.55	Pass
		5745	N/A	15.62	15.65	16.55	16.33	16.62	16.65	17.55	17.33	23.08	30	Pass
		5785	N/A	15.72	16.61	15.86	15.51	16.72	17.61	16.86	16.51	22.97	30	Pass
		5825	N/A	16.85	17.80	16.52	16.08	17.85	18.80	17.52	17.08	23.88	30	Pass
IEEE 802.11ac -VHT40	U-NII-1	5190	N/A	9.00	8.66	7.11	6.03	10.00	9.66	8.11	7.03	14.88	30	Pass
		5230	N/A	6.25	6.56	6.56	5.56	7.25	7.56	7.56	6.56	13.27	30	Pass
	U-NII-2A	5270	N/A	6.71	5.68	7.68	6.59	7.71	6.68	8.68	7.59	13.74	23.58	Pass
		5310	N/A	6.96	6.09	8.91	7.20	7.96	7.09	9.91	8.20	14.44	23.58	Pass
	U-NII-2C	5510	N/A	6.36	7.79	4.71	4.38	7.36	8.79	5.71	5.38	13.05	23.55	Pass
		5550	N/A	6.68	6.32	5.43	4.67	7.68	7.32	6.43	5.67	12.87	23.55	Pass
		5670	N/A	6.33	5.70	7.41	6.31	7.33	6.70	8.41	7.31	13.50	23.55	Pass
	U-NII-3	5755	N/A	16.20	16.21	16.97	16.67	17.20	17.21	17.97	17.67	23.55	30	Pass
5795		N/A	16.60	17.35	16.55	16.02	17.60	18.35	17.55	17.02	23.68	30	Pass	
IEEE 802.11ac -VHT80	U-NII-1	5210	N/A	9.04	8.39	7.84	7.32	10.07	9.42	8.87	8.35	15.25	30	Pass
	U-NII-2A	5290	N/A	7.68	6.47	8.92	7.19	8.71	7.50	9.95	8.22	14.71	23.58	Pass
	U-NII-2C	5530	N/A	3.21	4.67	4.31	4.22	4.24	5.70	5.34	5.25	11.19	23.55	Pass
	U-NII-3	5775	N/A	12.05	12.62	12.54	11.67	13.08	13.65	13.57	12.70	19.29	30	Pass
IEEE 802.11ac -VHT80+80	U-NII-2A	5250	N/A	7.40	6.85	8.21	7.57	8.41	7.86	9.22	8.58	14.57	23.58	Pass
	U-NII-2C	5570	N/A	6.89	6.51	5.12	4.43	7.90	7.52	6.13	5.44	12.88	23.55	Pass
IEEE 802.11ac -VHT160	U-NII-2A	5250	N/A	7.31	6.53	7.80	7.19	8.33	7.55	8.82	8.21	14.27	23.58	Pass
	U-NII-2C	5570	N/A	6.52	6.04	4.65	3.95	7.54	7.06	5.67	4.97	12.45	23.55	Pass

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Mode	Band	Freq. (MHz)	RU	CONDUCTED AVG POWER									Limit (dBm)	Result
				Meas Value (dBm)				Corr'd Value (dBm)						
				Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total		
IEEE 802.11ax -HE20	U-NII-1	5180	26RU0	9.11	9.16	6.90	6.14	9.62	9.67	7.41	6.65	14.56	30	Pass
			52RU37	11.27	11.37	9.09	8.46	11.77	11.87	9.59	8.96	16.75	30	Pass
			106RU53	11.26	11.33	9.09	8.66	11.70	11.77	9.53	9.10	16.71	30	Pass
			SU	13.89	14.11	12.20	11.68	14.91	15.13	13.22	12.70	20.13	30	Pass
		5220	26RU4	9.43	8.58	8.01	7.57	9.94	9.09	8.52	8.08	14.99	30	Pass
			52RU39	10.54	9.81	9.37	8.85	11.04	10.31	9.87	9.35	16.20	30	Pass
			106RU53	10.36	9.55	9.00	8.48	10.80	9.99	9.44	8.92	15.86	30	Pass
			SU	13.12	11.68	11.24	11.23	14.14	12.70	12.26	12.25	18.93	30	Pass
		5240	26RU8	8.07	7.21	7.96	7.39	8.58	7.72	8.47	7.90	14.20	30	Pass
			52RU40	9.49	8.46	9.38	8.68	9.99	8.96	9.88	9.18	15.54	30	Pass
			106RU54	9.27	8.19	8.98	8.31	9.71	8.63	9.42	8.75	15.17	30	Pass
			SU	12.05	10.87	11.64	10.94	13.07	11.89	12.66	11.96	18.44	30	Pass
	U-NII-2A	5260	26RU0	3.29	3.90	4.83	4.32	3.80	4.41	5.34	4.83	10.65	23.58	Pass
			52RU37	6.09	4.93	6.48	5.68	6.59	5.43	6.98	6.18	12.35	23.58	Pass
			106RU53	7.70	6.72	8.06	7.14	8.14	7.16	8.50	7.58	13.89	23.58	Pass
			SU	8.21	7.12	8.52	7.56	9.23	8.14	9.54	8.58	14.92	23.58	Pass
		5300	26RU4	5.23	3.13	5.01	4.88	5.74	3.64	5.52	5.39	11.17	23.58	Pass
			52RU39	6.49	5.22	7.87	6.25	6.99	5.72	8.37	6.75	13.08	23.58	Pass
			106RU53	7.56	6.66	9.16	7.64	8.00	7.10	9.60	8.08	14.31	23.58	Pass
			SU	8.06	7.06	9.61	8.21	9.08	8.08	10.63	9.23	15.37	23.58	Pass
		5320	26RU8	2.73	3.41	3.74	1.82	3.24	3.92	4.25	2.33	9.52	23.58	Pass
			52RU40	6.83	6.16	9.05	7.61	7.33	6.66	9.55	8.11	14.07	23.58	Pass
			106RU54	7.85	7.38	9.93	8.75	8.29	7.82	10.37	9.19	15.05	23.58	Pass
			SU	8.39	7.83	10.38	9.15	9.41	8.85	11.40	10.17	16.08	23.58	Pass
	U-NII-2C	5500	26RU0	3.01	2.78	3.25	2.77	3.52	3.29	3.76	3.28	9.49	23.55	Pass
			52RU37	4.13	3.78	4.35	3.85	4.63	4.28	4.85	4.35	10.55	23.55	Pass
			106RU53	3.42	3.19	4.33	3.58	3.86	3.63	4.77	4.02	10.11	23.55	Pass
			SU	7.21	8.98	5.40	5.18	8.23	10.00	6.42	6.20	14.01	23.55	Pass
		5580	26RU4	1.30	1.86	2.54	2.47	1.81	2.37	3.05	2.98	8.60	23.55	Pass
			52RU39	2.31	2.72	2.68	3.13	2.81	3.22	3.18	3.63	9.24	23.55	Pass
			106RU53	2.80	3.26	3.12	3.78	3.24	3.70	3.56	4.22	9.71	23.55	Pass
			SU	7.61	6.61	4.76	3.83	8.63	7.63	5.78	4.85	12.99	23.55	Pass
	5700	26RU8	4.67	4.33	3.57	2.86	5.18	4.84	4.08	3.37	10.45	23.55	Pass	

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

Mode	Band	Freq. (MHz)	RU	CONDUCTED AVG POWER									Limit (dBm)	Result	
				Meas Value (dBm)				Corr'd Value (dBm)							
				Ant. 0	Ant. 1	Ant. 2	Ant. 3	Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total			
			52RU40	6.69	6.45	5.89	5.69	7.19	6.95	6.39	6.19	12.72	23.55	Pass	
			106RU54	5.58	5.05	3.68	4.31	6.02	5.49	4.12	4.75	11.17	23.55	Pass	
			SU	7.12	7.00	8.80	8.17	8.14	8.02	9.82	9.19	14.88	23.55	Pass	
	U-NII-3	5745	26RU0	15.51	15.80	16.26	16.06	16.02	16.31	16.77	16.57	22.45	30	Pass	
			52RU37	15.86	15.75	16.29	16.15	16.36	16.25	16.79	16.65	22.53	30	Pass	
			106RU53	15.81	15.93	16.31	16.32	16.25	16.37	16.75	16.76	22.56	30	Pass	
			SU	15.93	16.11	16.86	16.65	16.95	17.13	17.88	17.67	23.44	30	Pass	
			5785	26RU4	15.39	16.44	15.33	14.77	15.90	16.95	15.84	15.28	22.06	30	Pass
				52RU39	15.51	16.39	15.52	14.82	16.01	16.89	16.02	15.32	22.11	30	Pass
		106RU53		15.30	16.39	15.23	14.71	15.74	16.83	15.67	15.15	21.91	30	Pass	
		SU		16.26	17.13	16.22	15.68	17.28	18.15	17.24	16.70	23.39	30	Pass	
		5825	26RU8	16.04	17.74	16.01	15.71	16.55	18.25	16.52	16.22	22.99	30	Pass	
			52RU40	16.23	17.83	16.26	15.69	16.73	18.33	16.76	16.19	23.10	30	Pass	
			106RU54	17.03	17.62	16.07	15.55	17.47	18.06	16.51	15.99	23.10	30	Pass	
			SU	17.16	18.31	16.78	16.44	18.18	19.33	17.80	17.46	24.27	30	Pass	
IEEE 802.11ax -HE40	U-NII-1	5190	SU	9.12	8.77	7.21	6.14	10.14	9.79	8.23	7.16	15.01	30	Pass	
		5230	SU	7.69	6.41	6.64	6.05	8.71	7.43	7.66	7.07	13.78	30	Pass	
	U-NII-2A	5270	SU	6.84	5.80	7.78	6.69	7.86	6.82	8.80	7.71	13.88	23.58	Pass	
		5310	SU	7.11	6.22	8.97	7.32	8.13	7.24	9.99	8.34	14.56	23.58	Pass	
	U-NII-2C	5510	SU	6.51	7.97	4.84	4.52	7.53	8.99	5.86	5.54	13.23	23.55	Pass	
		5550	SU	6.31	6.28	5.21	4.33	7.33	7.30	6.23	5.35	12.65	23.55	Pass	
		5670	SU	6.53	5.91	7.52	6.47	7.55	6.93	8.54	7.49	13.69	23.55	Pass	
	U-NII-3	5755	SU	16.29	16.42	17.15	16.65	17.31	17.44	18.17	17.67	23.68	30	Pass	
5795		SU	16.66	17.52	16.68	16.09	17.68	18.54	17.70	17.11	23.81	30	Pass		
IEEE 802.11ax -HE80	U-NII-1	5210	SU	9.36	8.77	8.13	7.62	10.36	9.77	9.13	8.62	15.54	30	Pass	
	U-NII-2A	5290	SU	8.03	6.84	9.20	7.55	9.03	7.84	10.20	8.55	15.01	23.58	Pass	
	U-NII-2C	5530	SU	3.34	4.21	4.68	3.56	4.34	5.21	5.68	4.56	11.00	23.55	Pass	
	U-NII-3	5775	SU	13.42	13.82	13.73	13.05	14.42	14.82	14.73	14.05	20.54	30	Pass	
IEEE 802.11ax -HE80+80	U-NII-2A	5250	SU	7.66	6.83	8.17	7.58	8.69	7.86	9.20	8.61	14.64	23.58	Pass	
	U-NII-2C	5570	SU	6.85	6.49	5.05	4.42	7.88	7.52	6.08	5.45	12.87	23.55	Pass	
IEEE 802.11ax -HE160	U-NII-2A	5250	SU	7.62	6.87	8.02	7.41	8.65	7.90	9.05	8.44	14.55	23.58	Pass	
	U-NII-2C	5570	SU	6.75	6.32	4.87	4.21	7.78	7.35	5.90	5.24	12.71	23.55	Pass	

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

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 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 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:

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, U-NII-2C band:

Using method SA-2

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

2. For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- 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: Transmitter mode

Test Results: Please refer to Appendix A

Directional gain and the maximum power spectral density limit.

Frequency (MHz)	Antenna Gain (dBi)				Directional gain (dBi)		Limit	
	Ant .0	Ant .1	Ant .2	Ant .3	Power	PSD	Power (dBm)	PSD (dBm/MHz or dBm/500kHz)
U-NII-1	5.26	5.26	5.26	5.26	5.26	11.28	30	11.72
U-NII-2A	5.26	5.26	5.26	5.26	5.26	11.28	24	5.72
U-NII-2C	5.26	5.26	5.26	5.26	5.26	11.28	24	5.72
U-NII-3	5.26	5.26	5.26	5.26	5.26	11.28	30	24.72

For CDD transmissions, directional gain is calculated as follows. In all formulas,

N_{ANT} = number of transmit antennas and

N_{SS} = number of spatial streams. (Assume $N_{SS} = 1$ unless you have specific information to the contrary.)

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

For power measurements on IEEE 802.11 devices, 1,2

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For Uncorrelated transmissions, directional gain is calculated as follows. In all formulas:

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-EN300328-V1.2

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.	

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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UTTR-RF-FCCPART15.407-V1.3

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.

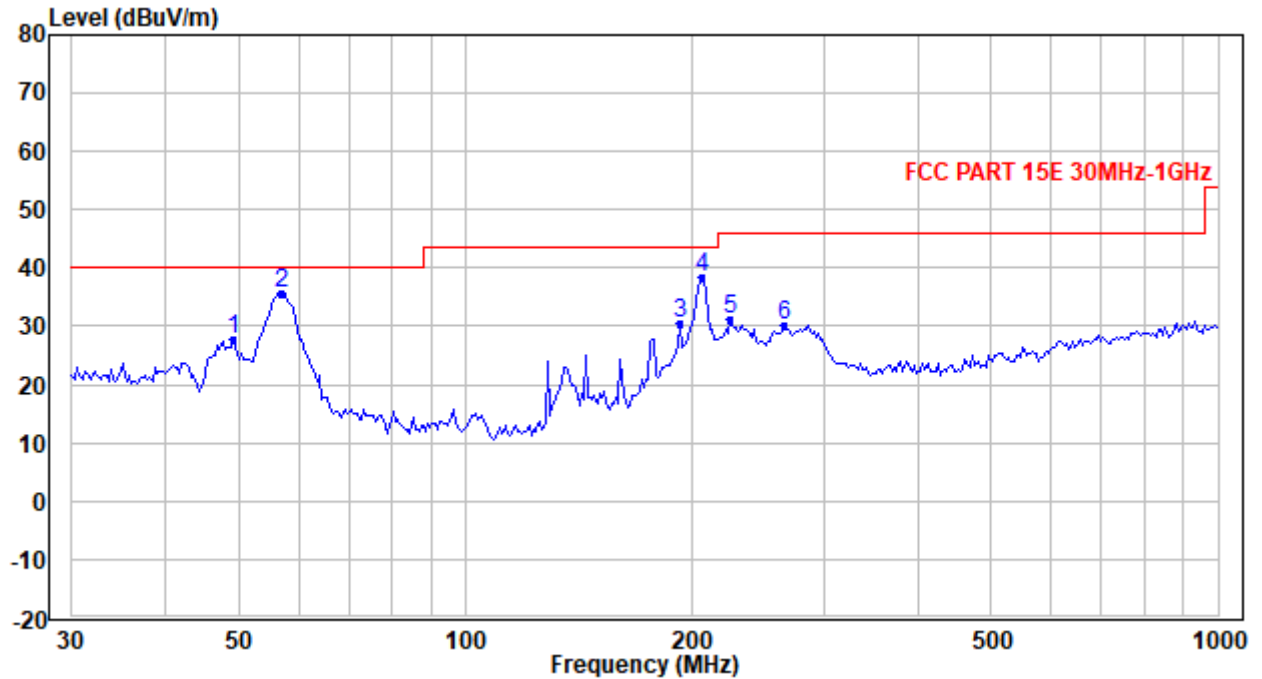
Equipment Used: Refer to section 3 for details.

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	49.063	42.0	-14.3	27.8	40.0	-12.2	QP
2	56.864	53.0	-17.1	35.8	40.0	-4.2	QP
3	193.137	41.1	-10.5	30.7	43.5	-12.8	QP
4	205.746	49.2	-10.7	38.6	43.5	-4.9	QP
5	225.427	42.1	-11.0	31.1	46.0	-14.9	QP
6	264.971	37.9	-7.8	30.1	46.0	-15.9	QP

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

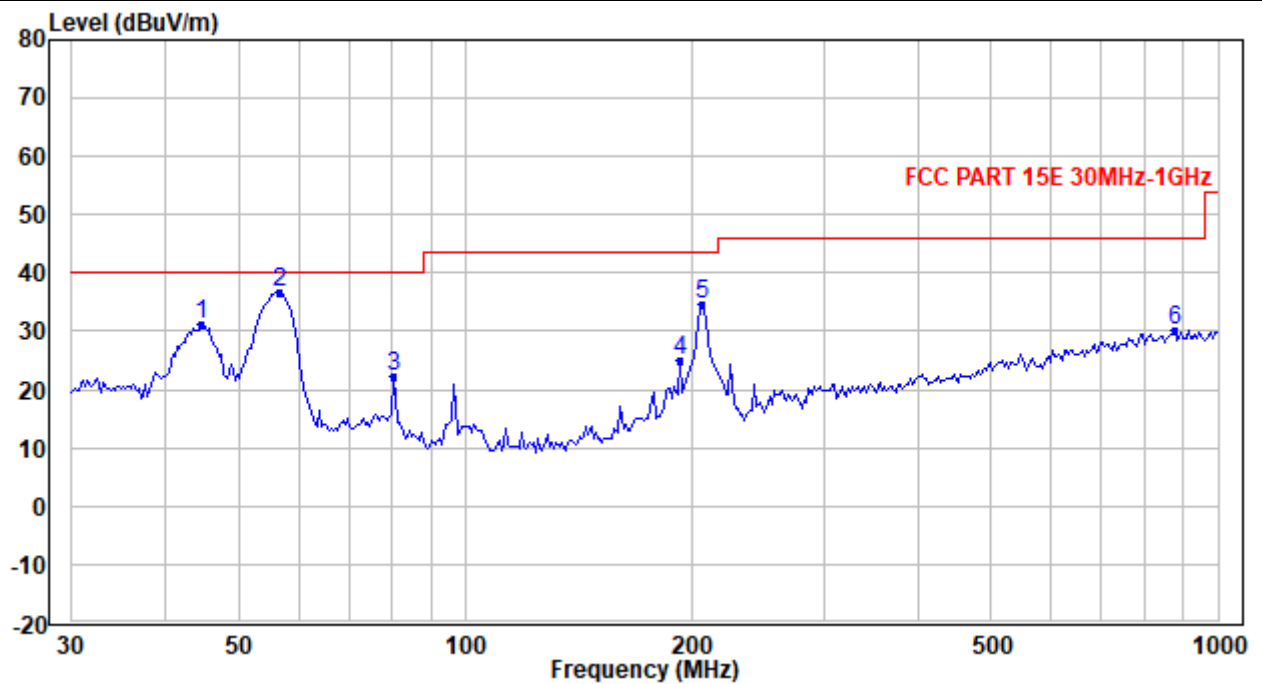
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.466	42.3	-11.0	31.3	40.0	-8.7	QP
2	56.466	53.9	-17.1	36.9	40.0	-3.2	QP
3	80.238	39.6	-17.3	22.3	40.0	-17.8	QP
4	193.137	35.6	-10.5	25.2	43.5	-18.3	QP
5	205.746	45.4	-10.7	34.7	43.5	-8.8	QP
6	875.013	25.9	4.4	30.3	46.0	-15.7	QP

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Fax: +86-755-28230886

E-mail: info@uttlab.com

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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 0 IEEE 802.11a_Channel 36								
1	10360	41.9	6.2	48.0	68.2	-20.2	Peak	Horizontal
2	10360	28.5	6.2	34.6	54	-19.4	Average	Horizontal
3	15540	38.2	11.5	49.8	74	-24.2	Peak	Horizontal
4	15540	24.5	11.5	36.1	54	-17.9	Average	Horizontal
5	10360	41.0	6.2	47.2	68.2	-21.0	Peak	Vertical
6	10360	28.5	6.2	34.6	54	-19.4	Average	Vertical
7	15540	36.1	11.5	47.6	74	-26.4	Peak	Vertical
8	15540	24.5	11.5	36.0	54	-18.0	Average	Vertical
SISO_Ant. 0 IEEE 802.11a_Channel 44								
1	10440	41.2	6.3	47.5	68.2	-20.7	Peak	Horizontal
2	10440	29.2	6.3	35.5	54	-18.5	Average	Horizontal
3	15660	38.2	11.6	49.8	74	-24.2	Peak	Horizontal
4	15660	25.0	11.6	36.6	54	-17.4	Average	Horizontal
5	10440	40.1	6.3	46.4	68.2	-21.8	Peak	Vertical
6	10440	26.2	6.3	32.4	54	-21.6	Average	Vertical
7	15660	36.9	11.6	48.5	74	-25.5	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical
SISO_Ant. 0 IEEE 802.11a_Channel 48								
1	10480	40.3	6.3	46.6	68.2	-21.6	Peak	Horizontal
2	10480	25.1	6.3	31.5	54	-22.5	Average	Horizontal
3	15720	36.6	11.7	48.2	74	-25.8	Peak	Horizontal
4	15720	24.5	11.7	36.1	54	-17.9	Average	Horizontal
5	10480	40.0	6.3	46.3	68.2	-21.9	Peak	Vertical
6	10480	28.2	6.3	34.5	54	-19.5	Average	Vertical
7	15720	36.3	11.7	48.0	74	-26.0	Peak	Vertical
8	15720	24.4	11.7	36.0	54	-18.0	Average	Vertical
SISO_Ant. 0 IEEE 802.11a_Channel 52								
1	10520	39.8	6.4	46.2	68.2	-22.0	Peak	Horizontal
2	10520	27.9	6.4	34.3	54	-19.7	Average	Horizontal
3	15780	38.0	11.7	49.7	74	-24.3	Peak	Horizontal
4	15780	24.3	11.7	36.0	54	-18.0	Average	Horizontal
5	10520	40.4	6.4	46.8	68.2	-21.4	Peak	Vertical
6	10520	28.1	6.4	34.5	54	-19.5	Average	Vertical
7	15780	37.0	11.7	48.7	74	-25.3	Peak	Vertical
8	15780	26.2	11.7	37.9	54	-16.1	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 0_IEEE 802.11a_Channel 60								
1	10600	40.6	6.6	47.2	74.0	-26.8	Peak	Horizontal
2	10600	28.8	6.6	35.4	54.0	-18.6	Average	Horizontal
3	15900	37.4	11.8	49.2	74.0	-24.8	Peak	Horizontal
4	15900	23.9	11.8	35.7	54.0	-18.3	Average	Horizontal
5	10600	41.1	6.6	47.7	74.0	-26.3	Peak	Vertical
6	10600	27.8	6.6	34.4	54.0	-19.6	Average	Vertical
7	15900	37.0	11.8	48.8	74.0	-25.2	Peak	Vertical
8	15900	23.9	11.8	35.7	54.0	-18.3	Average	Vertical
SISO_Ant. 0_IEEE 802.11a_Channel 64								
1	10640	41.2	6.7	47.9	74.0	-26.1	Peak	Horizontal
2	10640	27.6	6.7	34.3	54.0	-19.7	Average	Horizontal
3	15960	36.3	11.8	48.1	74.0	-25.9	Peak	Horizontal
4	15960	23.8	11.8	35.6	54.0	-18.4	Average	Horizontal
5	10640	40.1	6.7	46.7	74.0	-27.3	Peak	Vertical
6	10640	27.7	6.7	34.4	54.0	-19.6	Average	Vertical
7	15960	36.7	11.8	48.5	74.0	-25.5	Peak	Vertical
8	15960	24.0	11.8	35.8	54.0	-18.2	Average	Vertical
SISO_Ant. 0_IEEE 802.11a_Channel 100								
1	11000	38.3	7.5	45.8	74	-28.2	Peak	Horizontal
2	11000	27.4	7.5	34.9	54	-19.1	Average	Horizontal
3	16500	35.9	12.3	48.2	68.2	-20.0	Peak	Horizontal
4	16500	24.3	12.3	36.5	54	-17.5	Average	Horizontal
5	11000	40.4	7.5	47.9	74	-26.1	Peak	Vertical
6	11000	27.5	7.5	35.0	54	-19.0	Average	Vertical
7	16500	37.8	12.3	50.1	68.2	-18.1	Peak	Vertical
8	16500	24.3	12.3	36.5	54	-17.5	Average	Vertical
SISO_Ant. 0_IEEE 802.11a_Channel 116								
1	11160	41.0	7.4	48.4	74	-25.6	Peak	Horizontal
2	11160	28.8	7.4	36.2	54	-17.8	Average	Horizontal
3	16740	36.3	12.5	48.7	68.2	-19.5	Peak	Horizontal
4	16740	25.3	12.5	37.7	54	-16.3	Average	Horizontal
5	11160	39.4	7.4	46.8	74	-27.2	Peak	Vertical
6	11160	28.7	7.4	36.1	54	-17.9	Average	Vertical
7	16740	37.1	12.5	49.6	68.2	-18.6	Peak	Vertical
8	16740	25.4	12.5	37.8	54	-16.2	Average	Vertical

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 0 IEEE 802.11a_Channel 140								
1	11400	40.3	7.2	47.4	74	-26.6	Peak	Horizontal
2	11400	25.4	7.2	32.5	54	-21.5	Average	Horizontal
3	17100	36.2	12.9	49.0	68.2	-19.2	Peak	Horizontal
4	17100	23.8	12.9	36.7	54	-17.3	Average	Horizontal
5	11400	39.7	7.2	46.9	74	-27.1	Peak	Vertical
6	11400	25.4	7.2	32.6	54	-21.4	Average	Vertical
7	17100	35.6	12.9	48.5	68.2	-19.7	Peak	Vertical
8	17100	23.8	12.9	36.7	54	-17.3	Average	Vertical
SISO_Ant. 0 IEEE 802.11a_Channel 149								
1	11490	40.1	7.1	47.2	74	-26.8	Peak	Horizontal
2	11490	27.6	7.1	34.6	54	-19.4	Average	Horizontal
3	17235	36.3	13.2	49.5	68.2	-18.7	Peak	Horizontal
4	17235	23.2	13.2	36.4	54	-17.6	Average	Horizontal
5	11490	39.5	7.1	46.6	74	-27.4	Peak	Vertical
6	11490	24.6	7.1	31.6	54	-22.4	Average	Vertical
7	17235	34.9	13.2	48.0	68.2	-20.2	Peak	Vertical
8	17235	23.2	13.2	36.4	54	-17.6	Average	Vertical
SISO_Ant. 0 IEEE 802.11a_Channel 157								
1	11570	39.9	7.2	47.1	74	-26.9	Peak	Horizontal
2	11570	27.2	7.2	34.4	54	-19.6	Average	Horizontal
3	17355	36.0	13.4	49.4	68.2	-18.8	Peak	Horizontal
4	17355	23.5	13.4	36.9	54	-17.1	Average	Horizontal
5	11570	39.0	7.2	46.2	74	-27.8	Peak	Vertical
6	11570	27.4	7.2	34.6	54	-19.4	Average	Vertical
7	17355	36.6	13.4	50.0	68.2	-18.2	Peak	Vertical
8	17355	23.5	13.4	36.9	54	-17.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 0_IEEE 802.11a_Channel 165								
1	11650	38.5	7.3	45.8	74	-28.2	Peak	Horizontal
2	11650	26.4	7.3	33.7	54	-20.3	Average	Horizontal
3	17475	35.6	13.6	49.2	68.2	-19.0	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	38.8	7.3	46.1	74	-27.9	Peak	Vertical
6	11650	26.4	7.3	33.7	54	-20.3	Average	Vertical
7	17475	34.7	13.6	48.4	68.2	-19.8	Peak	Vertical
8	17475	23.2	13.6	36.8	54	-17.2	Average	Vertical
SISO_Ant. 1_IEEE 802.11a_Channel 36								
1	10360	41.3	6.2	47.4	68.2	-20.8	Peak	Horizontal
2	10360	29.5	6.2	35.6	54	-18.4	Average	Horizontal
3	15540	36.9	11.5	48.4	74	-25.6	Peak	Horizontal
4	15540	24.4	11.5	35.9	54	-18.1	Average	Horizontal
5	10360	40.6	6.2	46.8	68.2	-21.4	Peak	Vertical
6	10360	28.5	6.2	34.6	54	-19.4	Average	Vertical
7	15540	36.2	11.5	47.8	74	-26.2	Peak	Vertical
8	15540	24.5	11.5	36.0	54	-18.0	Average	Vertical
SISO_Ant. 1_IEEE 802.11a_Channel 44								
1	10440	39.8	6.3	46.0	68.2	-22.2	Peak	Horizontal
2	10440	28.1	6.3	34.4	54	-19.6	Average	Horizontal
3	15660	36.0	11.6	47.6	74	-26.4	Peak	Horizontal
4	15660	24.9	11.6	36.5	54	-17.5	Average	Horizontal
5	10440	38.2	6.3	44.5	68.2	-23.7	Peak	Vertical
6	10440	29.3	6.3	35.6	54	-18.4	Average	Vertical
7	15660	38.1	11.6	49.8	74	-24.2	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical
SISO_Ant. 1_IEEE 802.11a_Channel 48								
1	10480	40.3	6.3	46.6	68.2	-21.6	Peak	Horizontal
2	10480	28.0	6.3	34.3	54	-19.7	Average	Horizontal
3	15720	36.9	11.7	48.6	74	-25.4	Peak	Horizontal
4	15720	24.3	11.7	35.9	54	-18.1	Average	Horizontal
5	10480	40.4	6.3	46.8	68.2	-21.4	Peak	Vertical
6	10480	28.1	6.3	34.4	54	-19.6	Average	Vertical
7	15720	36.2	11.7	47.8	74	-26.2	Peak	Vertical
8	15720	24.4	11.7	36.0	54	-18.0	Average	Vertical

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 1_ IEEE 802.11a_Channel 52								
1	10520	40.0	6.4	46.4	68.2	-21.8	Peak	Horizontal
2	10520	28.1	6.4	34.5	54	-19.5	Average	Horizontal
3	15780	37.0	11.7	48.7	74	-25.3	Peak	Horizontal
4	15780	24.4	11.7	36.1	54	-17.9	Average	Horizontal
5	10520	40.5	6.4	46.9	68.2	-21.3	Peak	Vertical
6	10520	27.0	6.4	33.4	54	-20.6	Average	Vertical
7	15780	38.0	11.7	49.7	74	-24.3	Peak	Vertical
8	15780	24.4	11.7	36.1	54	-17.9	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 60								
1	10600	40.1	6.6	46.7	74.0	-27.3	Peak	Horizontal
2	10600	27.8	6.6	34.4	54.0	-19.6	Average	Horizontal
3	15900	38.0	11.8	49.7	74.0	-24.3	Peak	Horizontal
4	15900	23.9	11.8	35.7	54.0	-18.3	Average	Horizontal
5	10600	39.6	6.6	46.2	74.0	-27.8	Peak	Vertical
6	10600	28.6	6.6	35.2	54.0	-18.8	Average	Vertical
7	15900	37.0	11.8	48.8	74.0	-25.2	Peak	Vertical
8	15900	24.0	11.8	35.8	54.0	-18.2	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 64								
1	10640	40.3	6.7	47.0	74.0	-27.0	Peak	Horizontal
2	10640	25.5	6.7	32.2	54.0	-21.8	Average	Horizontal
3	15960	35.9	11.8	47.7	74.0	-26.3	Peak	Horizontal
4	15960	23.5	11.8	35.3	54.0	-18.7	Average	Horizontal
5	10640	40.1	6.7	46.8	74.0	-27.2	Peak	Vertical
6	10640	25.8	6.7	32.4	54.0	-21.6	Average	Vertical
7	15960	39.2	11.8	51.0	74.0	-23.0	Peak	Vertical
8	15960	24.0	11.8	35.8	54.0	-18.2	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 100								
1	11000	38.8	7.5	46.3	74	-27.7	Peak	Horizontal
2	11000	27.7	7.5	35.2	54	-18.8	Average	Horizontal
3	16500	36.5	12.3	48.7	68.2	-19.5	Peak	Horizontal
4	16500	24.5	12.3	36.8	54	-17.2	Average	Horizontal
5	11000	38.8	7.5	46.4	74	-27.6	Peak	Vertical
6	11000	27.7	7.5	35.2	54	-18.8	Average	Vertical
7	16500	36.2	12.3	48.4	68.2	-19.8	Peak	Vertical
8	16500	24.4	12.3	36.7	54	-17.3	Average	Vertical

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Fax: +86-755-28230886

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 1_ IEEE 802.11a_Channel 116								
1	11160	39.1	7.4	46.5	74	-27.5	Peak	Horizontal
2	11160	28.9	7.4	36.3	54	-17.7	Average	Horizontal
3	16740	37.6	12.5	50.0	68.2	-18.2	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	40.1	7.4	47.5	74	-26.5	Peak	Vertical
6	11160	29.0	7.4	36.4	54	-17.6	Average	Vertical
7	16740	37.1	12.5	49.6	68.2	-18.6	Peak	Vertical
8	16740	23.5	12.5	35.9	54	-18.1	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 140								
1	11440	39.5	7.2	46.7	74	-27.3	Peak	Horizontal
2	11440	27.3	7.2	34.4	54	-19.6	Average	Horizontal
3	17160	36.2	12.9	49.1	68.2	-19.1	Peak	Horizontal
4	17160	23.7	12.9	36.6	54	-17.4	Average	Horizontal
5	11440	38.6	7.2	45.8	74	-28.2	Peak	Vertical
6	11440	25.4	7.2	32.5	54	-21.5	Average	Vertical
7	17160	37.0	12.9	49.9	68.2	-18.3	Peak	Vertical
8	17160	23.8	12.9	36.7	54	-17.3	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 149								
1	11490	39.3	7.1	46.4	74	-27.6	Peak	Horizontal
2	11490	26.6	7.1	33.7	54	-20.3	Average	Horizontal
3	17235	37.4	13.2	50.6	68.2	-17.6	Peak	Horizontal
4	17235	23.2	13.2	36.4	54	-17.6	Average	Horizontal
5	11490	39.6	7.1	46.7	74	-27.3	Peak	Vertical
6	11490	27.6	7.1	34.6	54	-19.4	Average	Vertical
7	17235	38.2	13.2	51.4	68.2	-16.8	Peak	Vertical
8	17235	23.2	13.2	36.4	54	-17.6	Average	Vertical
SISO_Ant. 1_ IEEE 802.11a_Channel 157								
1	11570	36.9	7.2	44.1	74	-29.9	Peak	Horizontal
2	11570	25.3	7.2	32.5	54	-21.5	Average	Horizontal
3	17355	34.9	13.4	48.3	68.2	-19.9	Peak	Horizontal
4	17355	23.5	13.4	36.9	54	-17.1	Average	Horizontal
5	11570	40.0	7.2	47.2	74	-26.8	Peak	Vertical
6	11570	25.3	7.2	32.5	54	-21.5	Average	Vertical
7	17355	35.2	13.4	48.6	68.2	-19.6	Peak	Vertical
8	17355	23.5	13.4	36.9	54	-17.1	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 1 IEEE 802.11a Channel 165								
1	11650	39.5	7.3	46.8	74	-27.2	Peak	Horizontal
2	11650	26.4	7.3	33.7	54	-20.3	Average	Horizontal
3	17475	34.5	13.6	48.1	68.2	-20.1	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	37.8	7.3	45.1	74	-28.9	Peak	Vertical
6	11650	26.4	7.3	33.7	54	-20.3	Average	Vertical
7	17475	34.8	13.6	48.4	68.2	-19.8	Peak	Vertical
8	17475	23.1	13.6	36.7	54	-17.3	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 2 IEEE 802.11a Channel 36								
1	10360	41.8	6.2	48.0	68.2	-20.2	Peak	Horizontal
2	10360	28.5	6.2	36.6	54	-17.4	Average	Horizontal
3	15540	36.7	11.5	48.2	74	-25.8	Peak	Horizontal
4	15540	24.5	11.5	36.0	54	-18.0	Average	Horizontal
5	10360	40.8	6.2	47.0	68.2	-21.2	Peak	Vertical
6	10360	28.6	6.2	34.7	54	-19.3	Average	Vertical
7	15540	37.3	11.5	48.9	74	-25.1	Peak	Vertical
8	15540	25.5	11.5	37.0	54	-17.0	Average	Vertical
SISO_Ant. 2 IEEE 802.11a Channel 44								
1	10440	40.9	6.3	47.2	68.2	-21.0	Peak	Horizontal
2	10440	29.2	6.3	35.5	54	-18.5	Average	Horizontal
3	15660	36.6	11.6	48.2	74	-25.8	Peak	Horizontal
4	15660	25.0	11.6	36.6	54	-17.4	Average	Horizontal
5	10440	41.5	6.3	47.8	68.2	-20.4	Peak	Vertical
6	10440	26.4	6.3	32.7	54	-21.3	Average	Vertical
7	15660	37.1	11.6	48.7	74	-25.3	Peak	Vertical
8	15660	25.3	11.6	36.9	54	-17.1	Average	Vertical
SISO_Ant. 2 IEEE 802.11a Channel 48								
1	10480	41.0	6.3	47.3	68.2	-20.9	Peak	Horizontal
2	10480	29.1	6.3	35.4	54	-18.6	Average	Horizontal
3	15720	36.4	11.7	48.1	74	-25.9	Peak	Horizontal
4	15720	24.5	11.7	36.1	54	-17.9	Average	Horizontal
5	10480	39.7	6.3	46.0	68.2	-22.2	Peak	Vertical
6	10480	28.2	6.3	34.5	54	-19.5	Average	Vertical
7	15720	36.7	11.7	48.4	74	-25.6	Peak	Vertical
8	15720	24.6	11.7	36.3	54	-17.7	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 2_ IEEE 802.11a_Channel 52								
1	10520	39.5	6.4	45.9	68.2	-22.3	Peak	Horizontal
2	10520	27.9	6.4	34.3	54	-19.7	Average	Horizontal
3	15780	37.5	11.7	49.2	74	-24.8	Peak	Horizontal
4	15780	24.4	11.7	36.1	54	-17.9	Average	Horizontal
5	10520	40.1	6.4	46.5	68.2	-21.7	Peak	Vertical
6	10520	25.1	6.4	31.5	54	-22.5	Average	Vertical
7	15780	36.9	11.7	48.6	74	-25.4	Peak	Vertical
8	15780	24.5	11.7	36.2	54	-17.8	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 60								
1	10600	40.3	6.6	46.9	74	-27.1	Peak	Horizontal
2	10600	28.6	6.6	35.2	54	-18.8	Average	Horizontal
3	15900	38.2	11.8	50.0	74	-24.0	Peak	Horizontal
4	15900	24.0	11.8	35.8	54	-18.2	Average	Horizontal
5	10600	41.3	6.6	47.9	74	-26.1	Peak	Vertical
6	10600	27.6	6.6	34.2	54	-19.8	Average	Vertical
7	15900	36.0	11.8	47.8	74	-26.2	Peak	Vertical
8	15900	24.0	11.8	35.8	54	-18.2	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 64								
1	10640	40.1	6.7	46.7	74	-27.3	Peak	Horizontal
2	10640	25.6	6.7	32.3	54	-21.7	Average	Horizontal
3	15960	35.7	11.8	47.5	74	-26.5	Peak	Horizontal
4	15960	23.9	11.8	35.7	54	-18.3	Average	Horizontal
5	10640	40.4	6.7	47.1	74	-26.9	Peak	Vertical
6	10640	25.5	6.7	32.2	54	-21.8	Average	Vertical
7	15960	36.3	11.8	48.1	74	-25.9	Peak	Vertical
8	15960	24.1	11.8	35.9	54	-18.1	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 100								
1	11000	40.4	7.5	47.9	74	-26.1	Peak	Horizontal
2	11000	27.5	7.5	35.1	54	-18.9	Average	Horizontal
3	16500	36.4	12.3	48.7	68.2	-19.5	Peak	Horizontal
4	16500	24.5	12.3	36.8	54	-17.2	Average	Horizontal
5	11000	39.6	7.5	47.2	74	-26.8	Peak	Vertical
6	11000	27.5	7.5	35.1	54	-18.9	Average	Vertical
7	16500	38.0	12.3	50.2	68.2	-18.0	Peak	Vertical
8	16500	24.5	12.3	36.8	54	-17.2	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 2_ IEEE 802.11a_Channel 116								
1	11160	40.7	7.4	48.1	74	-25.9	Peak	Horizontal
2	11160	28.7	7.4	36.1	54	-17.9	Average	Horizontal
3	16740	38.4	12.5	50.8	68.2	-17.4	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	39.1	7.4	46.5	74	-27.5	Peak	Vertical
6	11160	28.7	7.4	36.1	54	-17.9	Average	Vertical
7	16740	38.4	12.5	50.9	68.2	-17.3	Peak	Vertical
8	16740	23.4	12.5	35.8	54	-18.2	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 140								
1	11400	39.6	7.2	46.8	74	-27.2	Peak	Horizontal
2	11400	25.4	7.2	32.6	54	-21.4	Average	Horizontal
3	17100	37.0	12.9	49.9	68.2	-18.3	Peak	Horizontal
4	17100	23.9	12.9	36.8	54	-17.2	Average	Horizontal
5	11400	39.3	7.2	46.5	74	-27.5	Peak	Vertical
6	11400	25.4	7.2	32.5	54	-21.5	Average	Vertical
7	17100	36.3	12.9	49.1	68.2	-19.1	Peak	Vertical
8	17100	23.8	12.9	36.7	54	-17.3	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 149								
1	11490	38.5	7.1	45.6	74	-28.4	Peak	Horizontal
2	11490	27.6	7.1	34.7	54	-19.3	Average	Horizontal
3	17235	35.3	13.2	48.4	68.2	-19.8	Peak	Horizontal
4	17235	23.3	13.2	36.5	54	-17.5	Average	Horizontal
5	11490	39.7	7.1	46.8	74	-27.2	Peak	Vertical
6	11490	27.6	7.1	34.7	54	-19.3	Average	Vertical
7	17235	38.0	13.2	51.2	68.2	-17.0	Peak	Vertical
8	17235	23.4	13.2	36.6	54	-17.4	Average	Vertical
SISO_Ant. 2_ IEEE 802.11a_Channel 157								
1	11570	39.7	7.2	46.9	74	-27.1	Peak	Horizontal
2	11570	28.2	7.2	35.4	54	-18.6	Average	Horizontal
3	17355	35.3	13.4	48.7	68.2	-19.5	Peak	Horizontal
4	17355	23.6	13.4	37.0	54	-17.0	Average	Horizontal
5	11570	38.9	7.2	46.1	74	-27.9	Peak	Vertical
6	11570	25.3	7.2	32.5	54	-21.5	Average	Vertical
7	17355	35.5	13.4	48.9	68.2	-19.3	Peak	Vertical
8	17355	23.6	13.4	37.0	54	-17.0	Average	Vertical

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 2_ IEEE 802.11a_Channel 165								
1	11650	40.1	7.3	47.4	74	-26.6	Peak	Horizontal
2	11650	26.3	7.3	33.6	54	-20.4	Average	Horizontal
3	17475	35.2	13.6	48.9	68.2	-19.3	Peak	Horizontal
4	17475	23.3	13.6	36.9	54	-17.1	Average	Horizontal
5	11650	38.1	7.3	45.4	74	-28.6	Peak	Vertical
6	11650	26.4	7.3	33.7	54	-20.3	Average	Vertical
7	17475	35.1	13.6	48.8	68.2	-19.4	Peak	Vertical
8	17475	23.3	13.6	36.9	54	-17.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 3_ IEEE 802.11a_Channel 36								
1	10360	37.3	6.2	43.4	68.2	-24.8	Peak	Horizontal
2	10360	26.3	6.2	32.4	54	-21.6	Average	Horizontal
3	15540	35.9	11.5	47.4	74	-26.6	Peak	Horizontal
4	15540	24.4	11.5	35.9	54	-18.1	Average	Horizontal
5	10360	38.9	6.2	45.0	68.2	-23.2	Peak	Vertical
6	10360	26.6	6.2	32.8	54	-21.2	Average	Vertical
7	15540	37.4	11.5	48.9	74	-25.1	Peak	Vertical
8	15540	24.5	11.5	36.1	54	-17.9	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 44								
1	10440	40.5	6.3	46.8	68.2	-21.4	Peak	Horizontal
2	10440	26.4	6.3	32.7	54	-21.3	Average	Horizontal
3	15660	37.4	11.6	49.0	74	-25.0	Peak	Horizontal
4	15660	25.0	11.6	36.6	54	-17.4	Average	Horizontal
5	10440	36.9	6.3	43.2	68.2	-25.0	Peak	Vertical
6	10440	26.4	6.3	32.7	54	-21.3	Average	Vertical
7	15660	35.9	11.6	47.5	74	-26.5	Peak	Vertical
8	15660	25.2	11.6	36.8	54	-17.2	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 48								
1	10480	40.3	6.3	46.7	68.2	-21.5	Peak	Horizontal
2	10480	28.3	6.3	34.6	54	-19.4	Average	Horizontal
3	15720	37.5	11.7	49.2	74	-24.8	Peak	Horizontal
4	15720	24.4	11.7	36.0	54	-18.0	Average	Horizontal
5	10480	40.5	6.3	46.8	68.2	-21.4	Peak	Vertical
6	10480	28.5	6.3	34.8	54	-19.2	Average	Vertical
7	15720	37.2	11.7	48.8	74	-25.2	Peak	Vertical
8	15720	24.6	11.7	36.3	54	-17.7	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 3_ IEEE 802.11a_Channel 52								
1	10520	41.0	6.4	47.4	68.2	-20.8	Peak	Horizontal
2	10520	28.4	6.4	34.8	54	-19.2	Average	Horizontal
3	15780	36.6	11.7	48.2	74	-25.8	Peak	Horizontal
4	15780	24.7	11.7	36.4	54	-17.6	Average	Horizontal
5	10520	40.1	6.4	46.5	68.2	-21.7	Peak	Vertical
6	10520	28.4	6.4	34.8	54	-19.2	Average	Vertical
7	15780	36.3	11.7	48.0	74	-26.0	Peak	Vertical
8	15780	24.6	11.7	36.3	54	-17.7	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 60								
1	10600	40.1	6.6	46.7	74.0	-27.3	Peak	Horizontal
2	10600	27.9	6.6	34.5	54.0	-19.5	Average	Horizontal
3	15900	36.5	11.8	48.3	74.0	-25.7	Peak	Horizontal
4	15900	24.0	11.8	35.8	54.0	-18.2	Average	Horizontal
5	10600	40.9	6.6	47.5	74.0	-26.5	Peak	Vertical
6	10600	25.9	6.6	32.5	54.0	-21.5	Average	Vertical
7	15900	36.7	11.8	48.4	74.0	-25.6	Peak	Vertical
8	15900	24.0	11.8	35.8	54.0	-18.2	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 64								
1	10640	38.1	6.7	44.8	74.0	-29.2	Peak	Horizontal
2	10640	25.7	6.7	32.4	54.0	-21.6	Average	Horizontal
3	15960	35.8	11.8	47.6	74.0	-26.4	Peak	Horizontal
4	15960	23.9	11.8	35.7	54.0	-18.3	Average	Horizontal
5	10640	40.1	6.7	46.8	74.0	-27.2	Peak	Vertical
6	10640	25.6	6.7	32.3	54.0	-21.7	Average	Vertical
7	15960	37.5	11.8	49.3	74.0	-24.7	Peak	Vertical
8	15960	24.0	11.8	35.8	54.0	-18.2	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 100								
1	11000	38.5	7.5	46.0	74	-28.0	Peak	Horizontal
2	11000	27.5	7.5	35.1	54	-18.9	Average	Horizontal
3	16500	35.2	12.3	47.5	68.2	-20.7	Peak	Horizontal
4	16500	24.4	12.3	36.7	54	-17.3	Average	Horizontal
5	11000	38.8	7.5	46.3	74	-27.7	Peak	Vertical
6	11000	27.5	7.5	35.1	54	-18.9	Average	Vertical
7	16500	36.1	12.3	48.4	68.2	-19.8	Peak	Vertical
8	16500	24.4	12.3	36.7	54	-17.3	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 3_ IEEE 802.11a_Channel 116								
1	11160	40.6	7.4	47.9	74	-26.1	Peak	Horizontal
2	11160	25.8	7.4	33.2	54	-20.8	Average	Horizontal
3	16740	36.1	12.5	48.5	68.2	-19.7	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	37.8	7.4	45.2	74	-28.8	Peak	Vertical
6	11160	25.7	7.4	33.1	54	-20.9	Average	Vertical
7	16740	34.7	12.5	47.1	68.2	-21.1	Peak	Vertical
8	16740	23.4	12.5	35.8	54	-18.2	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 140								
1	11400	37.8	7.2	45.0	74	-29.0	Peak	Horizontal
2	11400	25.2	7.2	32.4	54	-21.6	Average	Horizontal
3	17100	36.8	12.9	49.7	68.2	-18.5	Peak	Horizontal
4	17100	23.8	12.9	36.7	54	-17.3	Average	Horizontal
5	11400	40.1	7.2	47.3	74	-26.7	Peak	Vertical
6	11400	25.3	7.2	32.4	54	-21.6	Average	Vertical
7	17100	35.8	12.9	48.6	68.2	-19.6	Peak	Vertical
8	17100	23.8	12.9	36.7	54	-17.3	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 149								
1	11490	40.8	7.1	47.9	74	-26.1	Peak	Horizontal
2	11490	27.7	7.1	34.8	54	-19.2	Average	Horizontal
3	17235	36.7	13.2	49.8	68.2	-18.4	Peak	Horizontal
4	17235	23.3	13.2	36.5	54	-17.5	Average	Horizontal
5	11490	39.0	7.1	46.1	74	-27.9	Peak	Vertical
6	11490	24.6	7.1	31.7	54	-22.3	Average	Vertical
7	17235	35.0	13.2	48.1	68.2	-20.1	Peak	Vertical
8	17235	23.3	13.2	36.5	54	-17.5	Average	Vertical
SISO_Ant. 3_ IEEE 802.11a_Channel 157								
1	11570	39.5	7.2	46.7	74	-27.3	Peak	Horizontal
2	11570	25.2	7.2	32.4	54	-21.6	Average	Horizontal
3	17355	35.0	13.4	48.4	68.2	-19.8	Peak	Horizontal
4	17355	23.4	13.4	36.8	54	-17.2	Average	Horizontal
5	11570	39.8	7.2	47.0	74	-27.0	Peak	Vertical
6	11570	27.4	7.2	34.6	54	-19.4	Average	Vertical
7	17355	35.9	13.4	49.3	68.2	-18.9	Peak	Vertical
8	17355	23.5	13.4	36.9	54	-17.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
SISO_Ant. 3_ IEEE 802.11a_Channel 165								
1	11650	38.2	7.3	45.5	74	-28.5	Peak	Horizontal
2	11650	26.4	7.3	33.7	54	-20.3	Average	Horizontal
3	17475	34.5	13.6	48.2	68.2	-20.0	Peak	Horizontal
4	17475	23.3	13.6	36.9	54	-17.1	Average	Horizontal
5	11650	40.2	7.3	47.5	74	-26.5	Peak	Vertical
6	11650	26.4	7.3	33.7	54	-20.3	Average	Vertical
7	17475	35.4	13.6	49.0	68.2	-19.2	Peak	Vertical
8	17475	23.2	13.6	36.8	54	-17.2	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT20_Channel 36								
1	10360	41.6	6.2	47.7	68.2	-20.5	Peak	Horizontal
2	10360	26.5	6.2	32.6	54	-21.4	Average	Horizontal
3	15540	38.4	11.5	50.0	74	-24.0	Peak	Horizontal
4	15540	24.3	11.5	35.8	54	-18.2	Average	Horizontal
5	10360	40.4	6.2	46.6	68.2	-21.6	Peak	Vertical
6	10360	28.6	6.2	34.8	54	-19.2	Average	Vertical
7	15540	36.1	11.5	47.6	74	-26.4	Peak	Vertical
8	15540	24.3	11.5	35.8	54	-18.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT20_Channel 44								
1	10440	39.5	6.3	45.7	68.2	-22.5	Peak	Horizontal
2	10440	28.1	6.3	34.4	54	-19.6	Average	Horizontal
3	15660	35.7	11.6	47.3	74	-26.7	Peak	Horizontal
4	15660	24.9	11.6	36.5	54	-17.5	Average	Horizontal
5	10440	40.6	6.3	46.9	68.2	-21.3	Peak	Vertical
6	10440	26.1	6.3	32.4	54	-21.6	Average	Vertical
7	15660	36.4	11.6	48.0	74	-26.0	Peak	Vertical
8	15660	24.9	11.6	34.5	54	-19.5	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT20_Channel 48								
1	10480	36.7	6.3	43.0	68.2	-25.2	Peak	Horizontal
2	10480	25.0	6.3	31.3	54	-22.7	Average	Horizontal
3	15720	36.3	11.7	47.9	74	-26.1	Peak	Horizontal
4	15720	24.3	11.7	35.9	54	-18.1	Average	Horizontal
5	10480	40.7	6.3	47.0	68.2	-21.2	Peak	Vertical
6	10480	26.9	6.3	33.2	54	-20.8	Average	Vertical
7	15720	36.4	11.7	48.1	74	-25.9	Peak	Vertical
8	15720	24.3	11.7	35.9	54	-18.1	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT20_ Channel 52								
1	10520	39.6	6.4	46.0	68.2	-22.2	Peak	Horizontal
2	10520	24.9	6.4	31.3	54	-22.7	Average	Horizontal
3	15780	36.1	11.7	47.8	74	-26.2	Peak	Horizontal
4	15780	24.2	11.7	35.8	54	-18.2	Average	Horizontal
5	10520	40.1	6.4	46.5	68.2	-21.7	Peak	Vertical
6	10520	24.7	6.4	31.1	54	-22.9	Average	Vertical
7	15780	36.0	11.7	47.7	74	-26.3	Peak	Vertical
8	15780	24.2	11.7	35.9	54	-18.1	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT20_ Channel 60								
1	10600	39.8	6.6	46.4	74.0	-27.6	Peak	Horizontal
2	10600	25.6	6.6	32.2	54.0	-21.8	Average	Horizontal
3	15900	37.4	11.8	49.2	74.0	-24.8	Peak	Horizontal
4	15900	23.8	11.8	35.6	54.0	-18.4	Average	Horizontal
5	10600	39.9	6.6	46.5	74.0	-27.5	Peak	Vertical
6	10600	27.4	6.6	34.0	54.0	-20.0	Average	Vertical
7	15900	37.3	11.8	49.1	74.0	-24.9	Peak	Vertical
8	15900	23.8	11.8	35.6	54.0	-18.4	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT20_ Channel 64								
1	10640	39.9	6.7	46.5	74.0	-27.5	Peak	Horizontal
2	10640	25.5	6.7	32.2	54.0	-21.8	Average	Horizontal
3	15960	36.0	11.8	47.8	74.0	-26.2	Peak	Horizontal
4	15960	23.7	11.8	35.5	54.0	-18.5	Average	Horizontal
5	10640	40.2	6.7	46.9	74.0	-27.1	Peak	Vertical
6	10640	25.4	6.7	32.1	54.0	-21.9	Average	Vertical
7	15960	35.7	11.8	47.5	74.0	-26.5	Peak	Vertical
8	15960	23.9	11.8	35.7	54.0	-18.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT20_ Channel 100								
1	11000	38.8	7.5	46.3	74	-27.7	Peak	Horizontal
2	11000	27.4	7.5	34.9	54	-19.1	Average	Horizontal
3	16500	36.1	12.3	48.4	68.2	-19.8	Peak	Horizontal
4	16500	24.3	12.3	36.5	54	-17.5	Average	Horizontal
5	11000	38.4	7.5	45.9	74	-28.1	Peak	Vertical
6	11000	27.3	7.5	34.8	54	-19.2	Average	Vertical
7	16500	35.6	12.3	47.9	68.2	-20.3	Peak	Vertical
8	16500	24.4	12.3	36.6	54	-17.4	Average	Vertical

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT20_Channel 116								
1	11160	38.1	7.4	45.5	74	-28.5	Peak	Horizontal
2	11160	28.7	7.4	36.1	54	-17.9	Average	Horizontal
3	16740	35.6	12.5	48	68.2	-20.2	Peak	Horizontal
4	16740	23.3	12.5	35.7	54	-18.3	Average	Horizontal
5	11160	36.6	7.4	44	74	-30.0	Peak	Vertical
6	11160	25.5	7.4	32.9	54	-21.1	Average	Vertical
7	16740	34.3	12.5	46.8	68.2	-21.4	Peak	Vertical
8	16740	23.2	12.5	35.7	54	-18.3	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT20_Channel 140								
1	11400	39	7.2	46.2	74	-27.8	Peak	Horizontal
2	11400	25.1	7.2	32.3	54	-21.7	Average	Horizontal
3	17100	36.5	12.9	49.4	68.2	-18.8	Peak	Horizontal
4	17100	23.6	12.9	36.4	54	-17.6	Average	Horizontal
5	11400	37.1	7.2	44.2	74	-29.8	Peak	Vertical
6	11400	25	7.2	32.1	54	-21.9	Average	Vertical
7	17100	35.3	12.9	48.2	68.2	-20.0	Peak	Vertical
8	17100	23.6	12.9	36.5	54	-17.5	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT20_Channel 149								
1	11490	38.5	7.1	45.6	74	-28.4	Peak	Horizontal
2	11490	24.5	7.1	31.6	54	-22.4	Average	Horizontal
3	17235	34.7	13.2	47.9	68.2	-20.3	Peak	Horizontal
4	17235	23.2	13.2	36.3	54	-17.7	Average	Horizontal
5	11490	41.1	7.1	48.2	74	-25.8	Peak	Vertical
6	11490	24.5	7.1	31.6	54	-22.4	Average	Vertical
7	17235	34.5	13.2	47.7	68.2	-20.5	Peak	Vertical
8	17235	23.1	13.2	36.3	54	-17.7	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT20_Channel 157								
1	11570	37.9	7.2	45.1	74	-28.9	Peak	Horizontal
2	11570	25.3	7.2	32.5	54	-21.5	Average	Horizontal
3	17355	35.6	13.4	49.0	68.2	-19.2	Peak	Horizontal
4	17355	37.0	13.4	37.0	54	-17.0	Average	Horizontal
5	11570	36.8	7.2	44.0	74	-30.0	Peak	Vertical
6	11570	25.3	7.2	32.5	54	-21.5	Average	Vertical
7	17355	34.8	13.4	48.2	68.2	-20.0	Peak	Vertical
8	17355	23.5	13.4	36.9	54	-17.1	Average	Vertical

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT20_Channel 165								
1	11650	38.3	7.3	45.7	74	-28.3	Peak	Horizontal
2	11650	26.3	7.3	33.6	54	-20.4	Average	Horizontal
3	17475	35.5	13.6	49.2	68.2	-19.0	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	38.8	7.3	46.2	74	-27.8	Peak	Vertical
6	11650	26.5	7.3	33.8	54	-20.2	Average	Vertical
7	17475	36.1	13.6	49.8	68.2	-18.4	Peak	Vertical
8	17475	23.2	13.6	36.8	54	-17.2	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT40_Channel 38								
1	10380	40.3	6.2	46.5	68.2	-21.7	Peak	Horizontal
2	10380	26.5	6.2	32.6	54	-21.4	Average	Horizontal
3	15570	37.4	11.6	48.9	74	-25.1	Peak	Horizontal
4	15570	24.4	11.6	36.0	54	-18.0	Average	Horizontal
5	10380	37.6	6.2	43.8	68.2	-24.4	Peak	Vertical
6	10380	26.4	6.2	32.6	54	-21.4	Average	Vertical
7	15570	36.0	11.6	47.5	74	-26.5	Peak	Vertical
8	15570	24.5	11.6	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT40_Channel 46								
1	10460	38.6	6.3	44.9	68.2	-23.3	Peak	Horizontal
2	10460	26.2	6.3	32.5	54	-21.5	Average	Horizontal
3	15690	36.8	11.6	48.5	74	-25.5	Peak	Horizontal
4	15690	24.9	11.6	36.6	54	-17.4	Average	Horizontal
5	10460	37.5	6.3	43.8	68.2	-24.4	Peak	Vertical
6	10460	26.1	6.3	32.4	54	-21.6	Average	Vertical
7	15690	36.2	11.6	47.9	74	-26.1	Peak	Vertical
8	15690	24.9	11.6	36.6	54	-17.4	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11n-HT40_Channel 54								
1	10540	40.8	6.4	47.3	68.2	-20.9	Peak	Horizontal
2	10540	23.4	6.4	29.8	54	-24.2	Average	Horizontal
3	15810	36.7	11.7	48.4	74	-25.6	Peak	Horizontal
4	15810	24.2	11.7	35.9	54	-18.1	Average	Horizontal
5	10540	41.6	6.4	48.1	68.2	-20.1	Peak	Vertical
6	10540	28.3	6.4	34.7	54	-19.3	Average	Vertical
7	15810	36.3	11.7	48.0	74	-26.0	Peak	Vertical
8	15810	24.1	11.7	35.8	54	-18.2	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT40_ Channel 62								
1	10620	37.5	6.6	44.1	74.0	-29.9	Peak	Horizontal
2	10620	28.2	6.6	34.8	54.0	-19.2	Average	Horizontal
3	15930	36.2	11.8	48.0	74.0	-26.0	Peak	Horizontal
4	15930	23.8	11.8	35.6	54.0	-18.4	Average	Horizontal
5	10620	40.2	6.6	46.8	74.0	-27.2	Peak	Vertical
6	10620	28.4	6.6	35.1	54.0	-18.9	Average	Vertical
7	15930	35.7	11.8	47.5	74.0	-26.5	Peak	Vertical
8	15930	23.9	11.8	35.8	54.0	-18.2	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT40_ Channel 102								
1	11020	38.2	7.5	45.7	74	-28.3	Peak	Horizontal
2	11020	27.6	7.5	35.1	54	-18.9	Average	Horizontal
3	16530	34.6	12.3	46.9	68.2	-21.3	Peak	Horizontal
4	16530	24.2	12.3	36.4	54	-17.6	Average	Horizontal
5	11020	38.4	7.5	45.9	74	-28.1	Peak	Vertical
6	11020	27.6	7.5	35.1	54	-18.9	Average	Vertical
7	16530	34.6	12.3	46.9	68.2	-21.3	Peak	Vertical
8	16530	24.2	12.3	36.5	54	-17.5	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT40_ Channel 110								
1	11100	39.7	7.4	47.1	74	-26.9	Peak	Horizontal
2	11100	28.6	7.4	36.0	54	-18.0	Average	Horizontal
3	16650	34.6	12.4	47.0	68.2	-21.2	Peak	Horizontal
4	16650	23.3	12.4	35.7	54	-18.3	Average	Horizontal
5	11100	39.1	7.4	46.5	74	-27.5	Peak	Vertical
6	11100	28.5	7.4	35.9	54	-18.1	Average	Vertical
7	16650	36.1	12.4	48.5	68.2	-19.7	Peak	Vertical
8	16650	23.3	12.4	35.7	54	-18.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11n-HT40_ Channel 134								
1	11340	39.7	7.2	46.9	74	-27.1	Peak	Horizontal
2	11340	24.5	7.2	31.7	54	-22.3	Average	Horizontal
3	17010	35.9	12.7	48.6	68.2	-19.6	Peak	Horizontal
4	17010	23.8	12.7	36.5	54	-17.5	Average	Horizontal
5	11340	40.3	7.2	47.5	74	-26.5	Peak	Vertical
6	11340	27.4	7.2	34.6	54	-19.4	Average	Vertical
7	17010	36.2	12.7	48.9	68.2	-19.3	Peak	Vertical
8	17010	23.9	12.7	36.6	54	-17.4	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT40_Channel 151								
1	11510	39.0	7.1	46.1	74	-27.9	Peak	Horizontal
2	11510	24.6	7.1	31.7	54	-22.3	Average	Horizontal
3	17265	35.1	13.2	48.4	68.2	-19.8	Peak	Horizontal
4	17265	23.0	13.2	36.2	54	-17.8	Average	Horizontal
5	11510	40.2	7.1	47.3	74	-26.7	Peak	Vertical
6	11510	26.7	7.1	33.8	54	-20.2	Average	Vertical
7	17265	35.1	13.2	48.3	68.2	-19.9	Peak	Vertical
8	17265	24.0	13.2	36.3	54	-17.7	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT40_Channel 159								
1	11590	38.2	7.2	45.5	74	-28.5	Peak	Horizontal
2	11590	25.4	7.2	32.6	54	-21.4	Average	Horizontal
3	17385	35.3	13.5	48.8	68.2	-19.4	Peak	Horizontal
4	17385	23.4	13.5	36.9	54	-17.1	Average	Horizontal
5	11590	38.3	7.2	45.6	74	-28.4	Peak	Vertical
6	11590	25.6	7.2	32.8	54	-21.2	Average	Vertical
7	17385	34.5	13.5	48.0	68.2	-20.2	Peak	Vertical
8	17385	23.3	13.5	36.8	54	-17.2	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ac-VHT80_Channel 42								
1	10420	39.9	6.3	46.2	68.2	-22.0	Peak	Horizontal
2	10420	28.8	6.3	35.1	54	-18.9	Average	Horizontal
3	15630	35.2	11.6	46.9	74	-27.1	Peak	Horizontal
4	15630	25.2	11.6	36.8	54	-17.2	Average	Horizontal
5	10420	40.0	6.3	46.3	68.2	-21.9	Peak	Vertical
6	10420	26.9	6.3	33.2	54	-20.8	Average	Vertical
7	15630	37.9	11.6	49.5	74	-24.5	Peak	Vertical
8	15630	25.3	11.6	36.9	54	-17.1	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ac-VHT80_Channel 58								
1	10580	40.8	6.5	47.4	68.2	-20.8	Peak	Horizontal
2	10580	28.2	6.5	34.7	54	-19.3	Average	Horizontal
3	15870	38.4	11.8	50.1	74	-23.9	Peak	Horizontal
4	15870	24.2	11.8	35.9	54	-18.1	Average	Horizontal
5	10580	41.3	6.5	47.8	68.2	-20.4	Peak	Vertical
6	10580	23.1	6.5	29.6	54	-24.4	Average	Vertical
7	15870	36.7	11.8	48.4	74	-25.6	Peak	Vertical
8	15870	24.1	11.8	35.8	54	-18.2	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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MIMO_Ant. 0+1+2+3_ IEEE 802.11ac-VHT80_Channel 106								
1	11060	41.0	7.5	48.4	74	-25.6	Peak	Horizontal
2	11060	28.6	7.5	36.0	54	-18.0	Average	Horizontal
3	16590	36.3	12.3	48.6	68.2	-19.6	Peak	Horizontal
4	16590	23.4	12.3	35.8	54	-18.2	Average	Horizontal
5	11060	39.9	7.5	47.4	74	-26.6	Peak	Vertical
6	11060	28.6	7.5	36.0	54	-18.0	Average	Vertical
7	16590	37.4	12.3	49.7	68.2	-18.5	Peak	Vertical
8	16590	23.3	12.3	35.7	54	-18.3	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ac-VHT80_Channel 155								
1	11550	40.2	7.2	47.4	74	-26.6	Peak	Horizontal
2	11550	24.9	7.2	32.1	54	-21.9	Average	Horizontal
3	17325	37.5	13.3	50.9	68.2	-17.3	Peak	Horizontal
4	17325	23.4	13.3	36.7	54	-17.3	Average	Horizontal
5	11550	39.1	7.2	46.2	74	-27.8	Peak	Vertical
6	11550	27.8	7.2	25.0	54	-29.0	Average	Vertical
7	17325	38.1	13.3	51.5	68.2	-16.7	Peak	Vertical
8	17325	23.2	13.3	36.5	54	-17.5	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ac-VHT80+80_Channel 50								
1	10500	40.8	6.4	47.2	68.2	-21.0	Peak	Horizontal
2	10500	28.3	6.4	34.7	54	-19.3	Average	Horizontal
3	15750	36.7	11.7	48.4	74	-25.6	Peak	Horizontal
4	15750	24.5	11.7	34.2	54	-19.8	Average	Horizontal
5	10500	42.3	6.4	48.6	68.2	-19.6	Peak	Vertical
6	10500	25.5	6.4	31.9	54	-22.1	Average	Vertical
7	15750	37.7	11.7	49.4	74	-24.6	Peak	Vertical
8	15750	24.6	11.7	36.3	54	-17.7	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ac-VHT80+80_Channel 114								
1	11140	39.8	7.4	47.2	74	-26.8	Peak	Horizontal
2	11140	25.9	7.4	33.3	54	-20.7	Average	Horizontal
3	16710	35.0	12.4	47.4	68.2	-20.8	Peak	Horizontal
4	16710	26.4	12.4	38.8	54	-15.2	Average	Horizontal
5	11140	40.4	7.4	47.8	74	-26.2	Peak	Vertical
6	11140	29.0	7.4	36.4	54	-17.6	Average	Vertical
7	16710	37.3	12.4	49.7	68.2	-18.5	Peak	Vertical
8	16710	23.5	12.4	35.9	54	-18.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ac-VHT160_Channel 50								
1	10500	40.7	6.4	47.0	68.2	-21.2	Peak	Horizontal
2	10500	25.2	6.4	31.5	54	-22.5	Average	Horizontal
3	15750	35.7	11.7	47.4	74	-26.6	Peak	Horizontal
4	15750	24.4	11.7	36.1	54	-17.9	Average	Horizontal
5	10500	40.4	6.4	46.8	68.2	-21.4	Peak	Vertical
6	10500	28.3	6.4	34.6	54	-19.4	Average	Vertical
7	15750	36.2	11.7	47.9	74	-26.1	Peak	Vertical
8	15750	24.5	11.7	36.2	54	-17.8	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ac-VHT160_Channel 114								
1	11140	40.2	7.4	47.6	74	-26.4	Peak	Horizontal
2	11140	29.8	7.4	37.2	54	-16.8	Average	Horizontal
3	16710	37.2	12.4	49.6	68.2	-18.6	Peak	Horizontal
4	16710	23.4	12.4	35.8	54	-18.2	Average	Horizontal
5	11140	40.2	7.4	47.6	74	-26.4	Peak	Vertical
6	11140	28.8	7.4	36.2	54	-17.8	Average	Vertical
7	16710	35.1	12.4	47.6	68.2	-20.6	Peak	Vertical
8	16710	23.4	12.4	35.8	54	-18.2	Average	Vertical

Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE20_Channel 36								
1	10360	41.2	6.2	47.4	68.2	-20.8	Peak	Horizontal
2	10360	27.0	6.2	33.2	54	-20.8	Average	Horizontal
3	15540	36.3	11.5	47.8	74	-26.2	Peak	Horizontal
4	15540	24.5	11.5	36.0	54	-18.0	Average	Horizontal
5	10360	38.7	6.2	44.8	68.2	-23.4	Peak	Vertical
6	10360	27.1	6.2	33.2	54	-20.8	Average	Vertical
7	15540	36.6	11.5	48.1	74	-25.9	Peak	Vertical
8	15540	24.5	11.5	36.0	54	-18.0	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE20_Channel 44								
1	10440	39.5	6.3	45.8	68.2	-22.4	Peak	Horizontal
2	10440	26.4	6.3	32.6	54	-21.4	Average	Horizontal
3	15660	36.7	11.6	48.3	74	-25.7	Peak	Horizontal
4	15660	24.9	11.6	36.5	54	-17.5	Average	Horizontal
5	10440	39.2	6.3	45.4	68.2	-22.8	Peak	Vertical
6	10440	26.6	6.3	32.9	54	-21.1	Average	Vertical
7	15660	36.8	11.6	48.4	74	-25.6	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE20_Channel 48								
1	10480	40.3	6.3	46.6	68.2	-21.6	Peak	Horizontal
2	10480	29.0	6.3	35.3	54	-18.7	Average	Horizontal
3	15720	36.7	11.7	48.3	74	-25.7	Peak	Horizontal
4	15720	24.3	11.7	35.9	54	-18.1	Average	Horizontal
5	10480	40.8	6.3	47.1	68.2	-21.1	Peak	Vertical
6	10480	24.9	6.3	31.2	54	-22.8	Average	Vertical
7	15720	36.9	11.7	48.5	74	-25.5	Peak	Vertical
8	15720	24.4	11.7	36.0	54	-18.0	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE20_Channel 52								
1	10520	38.1	6.4	44.5	68.2	-23.7	Peak	Horizontal
2	10520	27.8	6.4	34.2	54	-19.8	Average	Horizontal
3	15780	35.6	11.7	47.3	74	-26.7	Peak	Horizontal
4	15780	24.2	11.7	35.8	54	-18.2	Average	Horizontal
5	10520	40.9	6.4	47.3	68.2	-20.9	Peak	Vertical
6	10520	25.1	6.4	31.5	54	-22.5	Average	Vertical
7	15780	36.4	11.7	48.1	74	-25.9	Peak	Vertical
8	15780	24.2	11.7	35.8	54	-18.2	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 60								
1	10600	39.2	6.6	45.8	74	-28.2	Peak	Horizontal
2	10600	25.1	6.6	31.7	54	-22.3	Average	Horizontal
3	15900	36.1	11.8	47.9	74	-26.1	Peak	Horizontal
4	15900	23.7	11.8	35.5	54	-18.5	Average	Horizontal
5	10600	39.8	6.6	46.4	74	-27.6	Peak	Vertical
6	10600	25.0	6.6	31.6	54	-22.4	Average	Vertical
7	15900	36.1	11.8	47.8	74	-26.2	Peak	Vertical
8	15900	23.7	11.8	35.5	54	-18.5	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 64								
1	10640	40.5	6.7	47.1	74	-26.9	Peak	Horizontal
2	10640	25.3	6.7	32.0	54	-22.0	Average	Horizontal
3	15960	36.4	11.8	48.2	74	-25.8	Peak	Horizontal
4	15960	24.3	11.8	36.1	54	-18.0	Average	Horizontal
5	10640	37.3	6.7	43.9	74	-30.1	Peak	Vertical
6	10640	25.4	6.7	32.1	54	-21.9	Average	Vertical
7	15960	35.6	11.8	47.4	74	-26.6	Peak	Vertical
8	15960	24.3	11.8	36.1	54	-18.0	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 100								
1	11000	39.8	7.5	47.3	74	-26.7	Peak	Horizontal
2	11000	27.6	7.5	35.1	54	-18.9	Average	Horizontal
3	16500	35.7	12.3	47.9	68.2	-20.3	Peak	Horizontal
4	16500	24.6	12.3	36.9	54	-17.1	Average	Horizontal
5	11000	39.2	7.5	46.7	74	-27.3	Peak	Vertical
6	11000	27.8	7.5	35.4	54	-18.6	Average	Vertical
7	16500	37.3	12.3	49.5	68.2	-18.7	Peak	Vertical
8	16500	24.8	12.3	37.0	54	-17.0	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 116								
1	11160	38.7	7.4	46.1	74	-27.9	Peak	Horizontal
2	11160	25.8	7.4	33.2	54	-20.8	Average	Horizontal
3	16740	35.6	12.5	48.0	68.2	-20.2	Peak	Horizontal
4	16740	23.5	12.5	35.9	54	-18.1	Average	Horizontal
5	11160	36.6	7.4	44.0	74	-30.0	Peak	Vertical
6	11160	26.0	7.4	33.4	54	-20.6	Average	Vertical
7	16740	35.1	12.5	47.5	68.2	-20.7	Peak	Vertical
8	16740	23.5	12.5	35.9	54	-18.1	Average	Vertical

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 140								
1	11400	36.7	7.2	43.9	74	-30.1	Peak	Horizontal
2	11400	25.5	7.2	32.7	54	-21.3	Average	Horizontal
3	17100	36.0	12.9	48.8	68.2	-19.4	Peak	Horizontal
4	17100	24.1	12.9	36.9	54	-17.1	Average	Horizontal
5	11400	39.8	7.2	47.0	74	-27.0	Peak	Vertical
6	11400	25.4	7.2	32.6	54	-21.4	Average	Vertical
7	17100	36.9	12.9	49.8	68.2	-18.4	Peak	Vertical
8	17100	24.1	12.9	37.0	54	-17.0	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 149								
1	11490	39.0	7.1	46.1	74	-27.9	Peak	Horizontal
2	11490	24.8	7.1	31.9	54	-22.1	Average	Horizontal
3	17235	35.8	13.2	49.0	68.2	-19.2	Peak	Horizontal
4	17235	23.4	13.2	36.6	54	-17.4	Average	Horizontal
5	11490	36.5	7.1	43.6	74	-30.4	Peak	Vertical
6	11490	24.9	7.1	32.0	54	-22.0	Average	Vertical
7	17235	35.6	13.2	48.7	68.2	-19.5	Peak	Vertical
8	17235	23.4	13.2	36.6	54	-17.4	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 157								
1	11570	37.6	7.2	44.8	74	-29.2	Peak	Horizontal
2	11570	25.8	7.2	33.0	54	-21.0	Average	Horizontal
3	17355	34.4	13.4	47.8	68.2	-20.4	Peak	Horizontal
4	17355	23.6	13.4	37.0	54	-17.0	Average	Horizontal
5	11570	38.8	7.2	45.9	74	-28.1	Peak	Vertical
6	11570	25.8	7.2	33.0	54	-21.0	Average	Vertical
7	17355	34.8	13.4	48.2	68.2	-20.0	Peak	Vertical
8	17355	23.7	13.4	37.1	54	-16.9	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20_ Channel 165								
1	11650	38.4	7.3	45.7	74	-28.3	Peak	Horizontal
2	11650	26.5	7.3	33.8	54	-20.2	Average	Horizontal
3	17475	35.4	13.6	49.0	68.2	-19.2	Peak	Horizontal
4	17475	23.3	13.6	36.9	54	-17.1	Average	Horizontal
5	11650	37.3	7.3	44.6	74	-29.4	Peak	Vertical
6	11650	26.6	7.3	33.9	54	-20.1	Average	Vertical
7	17475	34.1	13.6	47.7	68.2	-20.5	Peak	Vertical
8	17475	23.3	13.6	36.9	54	-17.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 38								
1	10380	39.7	6.2	45.9	68.2	-22.3	Peak	Horizontal
2	10380	27.4	6.2	33.5	54	-20.5	Average	Horizontal
3	15570	37.1	11.6	48.6	74	-25.4	Peak	Horizontal
4	15570	24.7	11.6	36.3	54	-17.7	Average	Horizontal
5	10380	40.2	6.2	46.4	68.2	-21.8	Peak	Vertical
6	10380	27.3	6.2	33.5	54	-20.5	Average	Vertical
7	15570	36.5	11.6	48.0	74	-26.0	Peak	Vertical
8	15570	24.6	11.6	36.2	54	-17.8	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 46								
1	10460	40.5	6.3	46.8	68.2	-21.4	Peak	Horizontal
2	10460	29.6	6.3	35.9	54	-18.1	Average	Horizontal
3	15690	37.0	11.6	48.6	74	-25.4	Peak	Horizontal
4	15690	25.2	11.6	36.8	54	-17.2	Average	Horizontal
5	10460	40.1	6.3	46.4	68.2	-21.8	Peak	Vertical
6	10460	26.8	6.3	33.1	54	-20.9	Average	Vertical
7	15690	36.7	11.6	48.3	74	-25.7	Peak	Vertical
8	15690	25.1	11.6	36.7	54	-17.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 54								
1	10540	39.5	6.4	45.9	68.2	-22.3	Peak	Horizontal
2	10540	23.2	6.4	39.6	54	-14.4	Average	Horizontal
3	15810	35.3	11.7	47.0	74	-27.0	Peak	Horizontal
4	15810	24.3	11.7	36.0	54	-18.0	Average	Horizontal
5	10540	40.0	6.4	46.4	68.2	-21.8	Peak	Vertical
6	10540	23.3	6.4	29.7	54	-24.3	Average	Vertical
7	15810	35.8	11.7	47.5	74	-26.5	Peak	Vertical
8	15810	24.3	11.7	36.0	54	-18.0	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 62								
1	10620	39.6	6.6	46.2	74	-27.8	Peak	Horizontal
2	10620	25.3	6.6	32.0	54	-22.0	Average	Horizontal
3	15930	35.8	11.8	47.6	74	-26.4	Peak	Horizontal
4	15930	24.2	11.8	36.0	54	-18.0	Average	Horizontal
5	10620	37.4	6.6	44.1	74	-29.9	Peak	Vertical
6	10620	25.5	6.6	32.1	54	-21.9	Average	Vertical
7	15930	35.9	11.8	47.7	74	-26.3	Peak	Vertical
8	15930	24.1	11.8	35.9	54	-18.1	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 102								
1	11020	37.9	7.5	45.4	74	-28.6	Peak	Horizontal
2	11020	27.6	7.5	35.1	54	-18.9	Average	Horizontal
3	16530	36.1	12.3	48.4	68.2	-19.8	Peak	Horizontal
4	16530	24.7	12.3	37.0	54	-17.0	Average	Horizontal
5	11020	39.9	7.5	47.4	74	-26.6	Peak	Vertical
6	11020	27.9	7.5	35.4	54	-18.6	Average	Vertical
7	16530	36.2	12.3	48.5	68.2	-19.7	Peak	Vertical
8	16530	24.6	12.3	36.9	54	-17.1	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 110								
1	11100	40.3	7.4	47.8	74	-26.2	Peak	Horizontal
2	11100	25.9	7.4	33.3	54	-20.7	Average	Horizontal
3	16650	37.7	12.4	50.0	68.2	-18.2	Peak	Horizontal
4	16650	23.7	12.4	36.0	54	-18.0	Average	Horizontal
5	11100	41.7	7.4	49.1	74	-24.9	Peak	Vertical
6	11100	28.8	7.4	36.2	54	-17.8	Average	Vertical
7	16650	35.7	12.4	48.1	68.2	-20.1	Peak	Vertical
8	16650	23.6	12.4	35.9	54	-18.1	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 134								
1	11340	39.0	7.2	46.2	74	-27.8	Peak	Horizontal
2	11340	24.5	7.2	31.8	54	-22.2	Average	Horizontal
3	17010	36.2	12.7	48.9	68.2	-19.3	Peak	Horizontal
4	17010	24.0	12.7	36.7	54	-17.3	Average	Horizontal
5	11340	41.8	7.2	49.0	74	-25.0	Peak	Vertical
6	11340	24.6	7.2	31.8	54	-22.2	Average	Vertical
7	17010	36.7	12.7	49.4	68.2	-18.8	Peak	Vertical
8	17010	24.1	12.7	36.8	54	-17.2	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE40_ Channel 151								
1	11510	39.4	7.1	46.5	74	-27.5	Peak	Horizontal
2	11510	24.8	7.1	31.9	54	-22.1	Average	Horizontal
3	17265	35.1	13.2	48.3	68.2	-19.9	Peak	Horizontal
4	17265	23.4	13.2	36.6	54	-17.4	Average	Horizontal
5	11510	37.4	7.1	44.5	74	-29.5	Peak	Vertical
6	11510	25.0	7.1	32.1	54	-21.9	Average	Vertical
7	17265	36.2	13.2	49.4	68.2	-18.8	Peak	Vertical
8	17265	23.2	13.2	36.3	54	-17.7	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE40_Channel 159								
1	11590	40.0	7.2	47.2	74	-26.8	Peak	Horizontal
2	11590	25.7	7.2	33.0	54	-21.0	Average	Horizontal
3	17385	35.6	13.5	49.1	68.2	-19.1	Peak	Horizontal
4	17385	23.6	13.5	37.1	54	-16.9	Average	Horizontal
5	11590	39.2	7.2	46.4	74	-27.6	Peak	Vertical
6	11590	25.7	7.2	33.0	54	-21.0	Average	Vertical
7	17385	35.7	13.5	49.2	68.2	-19.0	Peak	Vertical
8	17385	23.3	13.5	36.8	54	-17.2	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE80_Channel 42								
1	10420	41.6	6.3	47.9	68.2	-20.3	Peak	Horizontal
2	10420	26.7	6.3	33.0	54	-21.0	Average	Horizontal
3	15630	36.8	11.6	48.4	74	-25.6	Peak	Horizontal
4	15630	25.3	11.6	36.9	54	-17.1	Average	Horizontal
5	10420	37.9	6.3	44.2	68.2	-24.0	Peak	Vertical
6	10420	26.8	6.3	33.1	54	-20.9	Average	Vertical
7	15630	35.3	11.6	46.9	74	-27.1	Peak	Vertical
8	15630	25.1	11.6	36.7	54	-17.3	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE80_Channel 58								
1	10580	34.4	6.5	40.9	68.2	-27.3	Peak	Horizontal
2	10580	23.0	6.5	29.5	54	-24.5	Average	Horizontal
3	15870	35.9	11.8	47.7	74	-26.3	Peak	Horizontal
4	15870	24.3	11.8	36.1	54	-17.9	Average	Horizontal
5	10580	40.4	6.5	46.9	68.2	-21.3	Peak	Vertical
6	10580	23.2	6.5	29.7	54	-24.3	Average	Vertical
7	15870	36.4	11.8	48.2	74	-25.8	Peak	Vertical
8	15870	24.2	11.8	36.0	54	-18.0	Average	Vertical
MIMO_Ant. 0+1+2+3_IEEE 802.11ax-HE80_Channel 106								
1	11060	39.2	7.5	46.7	74	-27.3	Peak	Horizontal
2	11060	26.6	7.5	34.0	54	-20.0	Average	Horizontal
3	16590	38.4	12.3	50.8	68.2	-17.4	Peak	Horizontal
4	16590	23.6	12.3	36.0	54	-18.0	Average	Horizontal
5	11060	38.5	7.5	46.0	74	-28.0	Peak	Vertical
6	11060	26.5	7.5	34.0	54	-20.0	Average	Vertical
7	16590	35.0	12.3	47.3	68.2	-20.9	Peak	Vertical
8	16590	23.4	12.3	35.8	54	-18.2	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE80_Channel 155								
1	11550	36.6	7.2	43.8	74	-30.2	Peak	Horizontal
2	11550	24.8	7.2	32.0	54	-22.0	Average	Horizontal
3	17325	35.1	13.3	48.4	68.2	-19.8	Peak	Horizontal
4	17325	23.2	13.3	36.5	54	-17.5	Average	Horizontal
5	11550	39.0	7.2	46.2	74	-27.8	Peak	Vertical
6	11550	24.8	7.2	32.0	54	-22.0	Average	Vertical
7	17325	34.3	13.3	47.6	68.2	-20.6	Peak	Vertical
8	17325	23.1	13.3	36.4	54	-17.6	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE80+80_Channel 50								
1	10500	36.4	6.4	42.8	68.2	-25.4	Peak	Horizontal
2	10500	25.3	6.4	31.6	54	-22.4	Average	Horizontal
3	15750	36.2	11.7	47.9	74	-26.1	Peak	Horizontal
4	15750	24.8	11.7	36.5	54	-17.5	Average	Horizontal
5	10500	40.1	6.4	46.4	68.2	-21.8	Peak	Vertical
6	10500	25.3	6.4	31.7	54	-22.3	Average	Vertical
7	15750	36.8	11.7	48.5	74	-25.5	Peak	Vertical
8	15750	24.6	11.7	36.3	54	-17.7	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE80+80_Channel 114								
1	11140	41.0	7.4	48.4	74	-25.6	Peak	Horizontal
2	11140	26.0	7.4	33.4	54	-20.6	Average	Horizontal
3	16710	35.9	12.4	48.4	68.2	-19.8	Peak	Horizontal
4	16710	23.7	12.4	36.1	54	-17.9	Average	Horizontal
5	11140	36.7	7.4	44.1	74	-29.9	Peak	Vertical
6	11140	27.9	7.4	35.3	54	-18.7	Average	Vertical
7	16710	35.2	12.4	47.6	68.2	-20.6	Peak	Vertical
8	16710	23.5	12.4	35.9	54	-18.1	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE160_Channel 50								
1	10500	40.5	6.4	46.9	68.2	-21.3	Peak	Horizontal
2	10500	25.3	6.4	31.7	54	-22.3	Average	Horizontal
3	15750	36.7	11.7	48.3	74	-25.7	Peak	Horizontal
4	15750	24.6	11.7	36.3	54	-17.7	Average	Horizontal
5	10500	37.7	6.4	44.0	68.2	-24.2	Peak	Vertical
6	10500	25.5	6.4	31.9	54	-22.1	Average	Vertical
7	15750	35.9	11.7	47.5	74	-26.5	Peak	Vertical
8	15750	24.6	11.7	36.3	54	-17.7	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE160_Channel 114								
1	11140	40.6	7.4	48.0	74	-26.0	Peak	Horizontal
2	11140	26.0	7.4	33.4	54	-20.6	Average	Horizontal
3	16710	35.3	12.4	47.7	68.2	-20.5	Peak	Horizontal
4	16710	23.6	12.4	36.0	54	-18.0	Average	Horizontal
5	11140	39.8	7.4	47.2	74	-26.8	Peak	Vertical
6	11140	25.9	7.4	33.3	54	-20.7	Average	Vertical
7	16710	35.8	12.4	48.2	68.2	-20.0	Peak	Vertical
8	16710	23.5	12.4	35.9	54	-18.1	Average	Vertical

Radiated Emission Test Data (Above 1GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(26RU)_Channel 36								
1	10360	40.5	6.2	46.7	68.2	-21.5	Peak	Horizontal
2	10360	27.3	6.2	33.5	54	-20.5	Average	Horizontal
3	15540	35.8	11.5	47.4	74	-26.6	Peak	Horizontal
4	15540	24.7	11.5	36.3	54	-17.7	Average	Horizontal
5	10360	42.3	6.2	48.5	68.2	-19.7	Peak	Vertical
6	10360	27.6	6.2	33.8	54	-20.2	Average	Vertical
7	15540	37.6	11.5	49.2	74	-24.8	Peak	Vertical
8	15540	24.6	11.5	36.2	54	-17.8	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(26RU)_Channel 44								
1	10440	39.5	6.3	45.8	68.2	-22.4	Peak	Horizontal
2	10440	28.6	6.3	34.9	54	-19.1	Average	Horizontal
3	15660	35.3	11.6	46.9	74	-27.1	Peak	Horizontal
4	15660	25.1	11.6	36.7	54	-17.3	Average	Horizontal
5	10440	38.3	6.3	44.6	68.2	-23.6	Peak	Vertical
6	10440	26.7	6.3	33.0	54	-21.0	Average	Vertical
7	15660	36.2	11.6	47.8	74	-26.2	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 48								
1	10480	40.4	6.3	46.7	68.2	-21.5	Peak	Horizontal
2	10480	28.2	6.3	34.5	54	-19.5	Average	Horizontal
3	15720	35.2	11.7	46.9	74	-27.1	Peak	Horizontal
4	15720	24.5	11.7	36.2	54	-17.8	Average	Horizontal
5	10480	40.8	6.3	47.1	68.2	-21.1	Peak	Vertical
6	10480	28.6	6.3	34.9	54	-19.1	Average	Vertical
7	15720	37.3	11.7	49.0	74	-25.0	Peak	Vertical
8	15720	24.5	11.7	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 52								
1	10520	40.9	6.4	47.3	68.2	-20.9	Peak	Horizontal
2	10520	28.1	6.4	34.5	54	-19.5	Average	Horizontal
3	15780	36.2	11.7	47.9	74	-26.1	Peak	Horizontal
4	15780	24.5	11.7	36.2	54	-17.8	Average	Horizontal
5	10520	40.6	6.4	47.0	68.2	-21.2	Peak	Vertical
6	10520	28.5	6.4	34.9	54	-19.1	Average	Vertical
7	15780	36.4	11.7	48.1	74	-25.9	Peak	Vertical
8	15780	24.5	11.7	36.2	54	-17.8	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 60								
1	10600	40.2	6.6	46.8	74	-27.2	Peak	Horizontal
2	10600	28.4	6.6	35.0	54	-19.0	Average	Horizontal
3	15900	37.5	11.8	49.3	74	-24.7	Peak	Horizontal
4	15900	24.1	11.8	35.9	54	-18.1	Average	Horizontal
5	10600	40.8	6.6	47.3	74	-26.7	Peak	Vertical
6	10600	28.6	6.6	35.1	54	-18.9	Average	Vertical
7	15900	36.0	11.8	47.8	74	-26.2	Peak	Vertical
8	15900	24.0	11.8	35.8	54	-18.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 64								
1	10640	40.7	6.7	47.3	74	-26.7	Peak	Horizontal
2	10640	28.4	6.7	35.1	54	-18.9	Average	Horizontal
3	15960	36.2	11.8	48.0	74	-26.0	Peak	Horizontal
4	15960	23.9	11.8	35.7	54	-18.3	Average	Horizontal
5	10640	40.3	6.7	47.0	74	-27.0	Peak	Vertical
6	10640	28.5	6.7	35.1	54	-18.9	Average	Vertical
7	15960	37.6	11.8	49.4	74	-24.6	Peak	Vertical
8	15960	24.0	11.8	35.8	54	-18.2	Average	Vertical

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCCPART15.407-V1.3

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 100								
1	11000	39.5	7.5	47.1	74	-26.9	Peak	Horizontal
2	11000	27.7	7.5	35.2	54	-18.8	Average	Horizontal
3	16500	36.2	12.3	48.5	68.2	-19.7	Peak	Horizontal
4	16500	24.5	12.3	36.8	54	-17.2	Average	Horizontal
5	11000	38.6	7.5	46.2	74	-27.8	Peak	Vertical
6	11000	27.7	7.5	35.2	54	-18.8	Average	Vertical
7	16500	36.4	12.3	48.7	68.2	-19.5	Peak	Vertical
8	16500	24.4	12.3	36.7	54	-17.3	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 116								
1	11160	39.7	7.4	47.1	74	-26.9	Peak	Horizontal
2	11160	25.9	7.4	33.3	54	-20.7	Average	Horizontal
3	16740	35.4	12.5	47.9	68.2	-20.3	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	40.1	7.4	47.5	74	-26.5	Peak	Vertical
6	11160	29.9	7.4	37.3	54	-16.7	Average	Vertical
7	16740	35.2	12.5	47.6	68.2	-20.6	Peak	Vertical
8	16740	23.4	12.5	35.8	54	-18.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 140								
1	11400	38.5	7.2	45.7	74	-28.3	Peak	Horizontal
2	11400	25.4	7.2	32.6	54	-21.4	Average	Horizontal
3	17100	36.7	12.9	49.6	68.2	-18.6	Peak	Horizontal
4	17100	24.1	12.9	36.9	54	-17.1	Average	Horizontal
5	11400	37.1	7.2	44.3	74	-29.7	Peak	Vertical
6	11400	28.4	7.2	35.5	54	-18.5	Average	Vertical
7	17100	35.6	12.9	48.5	68.2	-19.7	Peak	Vertical
8	17100	24.0	12.9	36.8	54	-17.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 149								
1	11490	38.7	7.1	45.8	74	-28.2	Peak	Horizontal
2	11490	24.7	7.1	31.8	54	-22.2	Average	Horizontal
3	17235	34.3	13.2	47.4	68.2	-20.8	Peak	Horizontal
4	17235	23.1	13.2	36.3	54	-17.7	Average	Horizontal
5	11490	41.9	7.1	49.0	74	-25.0	Peak	Vertical
6	11490	24.9	7.1	32.0	54	-22.0	Average	Vertical
7	17235	36.8	13.2	49.9	68.2	-18.3	Peak	Vertical
8	17235	23.2	13.2	36.4	54	-17.6	Average	Vertical

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

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Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 157								
1	11570	39.2	7.2	46.4	74	-27.6	Peak	Horizontal
2	11570	25.5	7.2	32.6	54	-21.4	Average	Horizontal
3	17355	34.8	13.4	48.2	68.2	-20.0	Peak	Horizontal
4	17355	23.5	13.4	36.9	54	-17.1	Average	Horizontal
5	11570	39.8	7.2	47.0	74	-27.0	Peak	Vertical
6	11570	25.5	7.2	32.6	54	-21.4	Average	Vertical
7	17355	34.6	13.4	48.0	68.2	-20.2	Peak	Vertical
8	17355	23.4	13.4	36.8	54	-17.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (26RU)_Channel 165								
1	11650	38.2	7.3	45.5	74	-28.5	Peak	Horizontal
2	11650	26.5	7.3	33.8	54	-20.2	Average	Horizontal
3	17475	34.8	13.6	48.5	68.2	-19.7	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	38.6	7.3	45.9	74	-28.1	Peak	Vertical
6	11650	26.5	7.3	33.8	54	-20.2	Average	Vertical
7	17475	34.7	13.6	48.3	68.2	-19.9	Peak	Vertical
8	17475	23.2	13.6	36.8	54	-17.2	Average	Vertical

Radiated Emission Test Data (Above 1GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 36								
1	10360	38.6	6.2	44.7	68.2	-23.5	Peak	Horizontal
2	10360	27.3	6.2	33.5	54	-20.5	Average	Horizontal
3	15540	37.8	11.5	49.3	74	-24.7	Peak	Horizontal
4	15540	24.6	11.5	36.2	54	-17.8	Average	Horizontal
5	10360	38.5	6.2	44.7	68.2	-23.5	Peak	Vertical
6	10360	27.5	6.2	33.6	54	-20.4	Average	Vertical
7	15540	37.0	11.5	48.5	74	-25.5	Peak	Vertical
8	15540	24.5	11.5	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 44								
1	10440	40.3	6.3	46.6	68.2	-21.6	Peak	Horizontal
2	10440	28.7	6.3	35.0	54	-19.0	Average	Horizontal
3	15660	36.8	11.6	48.4	74	-25.6	Peak	Horizontal
4	15660	25.1	11.6	36.7	54	-17.3	Average	Horizontal
5	10440	40.4	6.3	46.7	68.2	-21.5	Peak	Vertical
6	10440	26.7	6.3	33.0	54	-21.0	Average	Vertical
7	15660	36.0	11.6	47.6	74	-26.4	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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Radiated Emission Test Data (Above 1GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 48								
1	10480	41.5	6.3	47.8	68.2	-20.4	Peak	Horizontal
2	10480	28.4	6.3	34.7	54	-19.3	Average	Horizontal
3	15720	36.5	11.7	48.2	74	-25.8	Peak	Horizontal
4	15720	24.5	11.7	36.2	54	-17.8	Average	Horizontal
5	10480	40.6	6.3	46.9	68.2	-21.3	Peak	Vertical
6	10480	25.5	6.3	31.9	54	-22.1	Average	Vertical
7	15720	36.5	11.7	48.1	74	-25.9	Peak	Vertical
8	15720	24.5	11.7	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 52								
1	10520	40.8	6.4	47.2	68.2	-21.0	Peak	Horizontal
2	10520	25.2	6.4	31.7	54	-22.3	Average	Horizontal
3	15780	36.4	11.7	48.0	74	-26.0	Peak	Horizontal
4	15780	24.4	11.7	36.1	54	-17.9	Average	Horizontal
5	10520	40.6	6.4	47.0	68.2	-21.2	Peak	Vertical
6	10520	28.5	6.4	34.9	54	-19.1	Average	Vertical
7	15780	37.1	11.7	48.7	74	-25.3	Peak	Vertical
8	15780	24.4	11.7	36.1	54	-17.9	Average	Vertical

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 60								
1	10600	40.4	6.6	46.9	74	-27.1	Peak	Horizontal
2	10600	25.3	6.6	31.9	54	-22.1	Average	Horizontal
3	15900	36.2	11.8	48.0	74	-26.0	Peak	Horizontal
4	15900	24.1	11.8	35.9	54	-18.1	Average	Horizontal
5	10600	38.4	6.6	45.0	74	-29.0	Peak	Vertical
6	10600	28.6	6.6	35.1	54	-18.9	Average	Vertical
7	15900	36.2	11.8	47.9	74	-26.1	Peak	Vertical
8	15900	24.0	11.8	35.8	54	-18.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 64								
1	10640	41.3	6.7	48.0	74	-26.0	Peak	Horizontal
2	10640	25.2	6.7	31.9	54	-22.1	Average	Horizontal
3	15960	36.3	11.8	48.1	74	-25.9	Peak	Horizontal
4	15960	24.0	11.8	35.8	54	-18.2	Average	Horizontal
5	10640	41.1	6.7	47.8	74	-26.2	Peak	Vertical
6	10640	25.5	6.7	32.2	54	-21.8	Average	Vertical
7	15960	35.9	11.8	47.7	74	-26.3	Peak	Vertical
8	15960	24.0	11.8	35.8	54	-18.2	Average	Vertical

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Fax: +86-755-28230886

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<http://www.uttlab.com>

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_ Channel 100								
1	11000	39.5	7.5	47.0	74	-27.0	Peak	Horizontal
2	11000	27.7	7.5	35.2	54	-18.8	Average	Horizontal
3	16500	37.2	12.3	49.4	68.2	-18.8	Peak	Horizontal
4	16500	24.4	12.3	36.7	54	-17.3	Average	Horizontal
5	11000	40.3	7.5	47.8	74	-26.2	Peak	Vertical
6	11000	27.7	7.5	35.2	54	-18.8	Average	Vertical
7	16500	35.6	12.3	47.8	68.2	-20.4	Peak	Vertical
8	16500	24.5	12.3	36.8	54	-17.2	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_ Channel 116								
1	11160	41.1	7.4	48.5	74	-25.5	Peak	Horizontal
2	11160	28.8	7.4	36.2	54	-17.8	Average	Horizontal
3	16740	35.6	12.5	48.0	68.2	-20.2	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	38.5	7.4	45.9	74	-28.1	Peak	Vertical
6	11160	26.0	7.4	33.4	54	-20.6	Average	Vertical
7	16740	34.3	12.5	46.8	68.2	-21.4	Peak	Vertical
8	16740	23.3	12.5	35.7	54	-18.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_ Channel 140								
1	11400	39.1	7.2	46.3	74	-27.7	Peak	Horizontal
2	11400	25.3	7.2	32.4	54	-21.6	Average	Horizontal
3	17100	36.5	12.9	49.4	68.2	-18.8	Peak	Horizontal
4	17100	24.0	12.9	36.8	54	-17.2	Average	Horizontal
5	11400	39.0	7.2	46.2	74	-27.8	Peak	Vertical
6	11400	25.4	7.2	32.5	54	-21.5	Average	Vertical
7	17100	35.8	12.9	48.7	68.2	-19.5	Peak	Vertical
8	17100	34.1	12.9	36.9	54	-17.1	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_ Channel 149								
1	11490	39.7	7.1	46.8	74	-27.2	Peak	Horizontal
2	11490	24.8	7.1	31.9	54	-22.1	Average	Horizontal
3	17235	35.3	13.2	48.5	68.2	-19.7	Peak	Horizontal
4	17235	23.2	13.2	36.4	54	-17.6	Average	Horizontal
5	11490	38.2	7.1	45.3	74	-28.7	Peak	Vertical
6	11490	25.0	7.1	32.1	54	-21.9	Average	Vertical
7	17235	35.1	13.2	48.3	68.2	-19.9	Peak	Vertical
8	17235	23.3	13.2	36.5	54	-17.5	Average	Vertical

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Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 157								
1	11570	37.9	7.2	45.1	74	-28.9	Peak	Horizontal
2	11570	25.5	7.2	32.7	54	-21.3	Average	Horizontal
3	17355	34.8	13.4	48.2	68.2	-20.0	Peak	Horizontal
4	17355	23.4	13.4	36.8	54	-17.2	Average	Horizontal
5	11570	37.9	7.2	45.1	74	-28.9	Peak	Vertical
6	11570	25.6	7.2	32.8	54	-21.2	Average	Vertical
7	17355	35.0	13.4	48.4	68.2	-19.8	Peak	Vertical
8	17355	23.4	13.4	36.8	54	-17.2	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (52RU)_Channel 165								
1	11650	38.6	7.3	45.9	74	-28.1	Peak	Horizontal
2	11650	26.4	7.3	33.7	54	-20.3	Average	Horizontal
3	17475	35.0	13.6	48.6	68.2	-19.6	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	38.2	7.3	45.5	74	-28.5	Peak	Vertical
6	11650	26.5	7.3	33.8	54	-20.2	Average	Vertical
7	17475	35.1	13.6	48.8	68.2	-19.4	Peak	Vertical
8	17475	23.1	13.6	36.7	54	-17.3	Average	Vertical

Radiated Emission Test Data (Above 1GHz):

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 36								
1	10360	40.2	6.2	46.4	68.2	-21.8	Peak	Horizontal
2	10360	27.4	6.2	33.5	54	-20.5	Average	Horizontal
3	15540	35.9	11.5	47.4	74	-26.6	Peak	Horizontal
4	15540	24.7	11.5	36.3	54	-17.7	Average	Horizontal
5	10360	38.9	6.2	45.0	68.2	-23.2	Peak	Vertical
6	10360	27.5	6.2	33.6	54	-20.4	Average	Vertical
7	15540	35.9	11.5	47.4	74	-26.6	Peak	Vertical
8	15540	24.5	11.5	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 44								
1	10440	41.3	6.3	47.5	68.2	-20.7	Peak	Horizontal
2	10440	29.6	6.3	35.9	54	-18.1	Average	Horizontal
3	15660	39.3	11.6	50.9	74	-23.1	Peak	Horizontal
4	15660	25.1	11.6	36.7	54	-17.3	Average	Horizontal
5	10440	40.4	6.3	46.6	68.2	-21.6	Peak	Vertical
6	10440	29.7	6.3	36.0	54	-18.0	Average	Vertical
7	15660	37.8	11.6	49.4	74	-24.6	Peak	Vertical
8	15660	25.0	11.6	36.6	54	-17.4	Average	Vertical

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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Radiated Emission Test Data (Above 1GHz):								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(106RU)_Channel 48								
1	10480	41.9	6.3	48.2	68.2	-20.0	Peak	Horizontal
2	10480	28.1	6.3	34.5	54	-19.5	Average	Horizontal
3	15720	37.3	11.7	48.9	74	-25.1	Peak	Horizontal
4	15720	24.5	11.7	36.2	54	-17.8	Average	Horizontal
5	10480	40.3	6.3	46.6	68.2	-21.6	Peak	Vertical
6	10480	28.4	6.3	34.7	54	-19.3	Average	Vertical
7	15720	35.9	11.7	47.5	74	-26.5	Peak	Vertical
8	15720	24.5	11.7	36.1	54	-17.9	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(106RU)_Channel 52								
1	10520	39.2	6.4	45.6	68.2	-22.6	Peak	Horizontal
2	10520	29.1	6.4	35.5	54	-18.5	Average	Horizontal
3	15780	36.3	11.7	48.0	74	-26.0	Peak	Horizontal
4	15780	24.4	11.7	36.1	54	-17.9	Average	Horizontal
5	10520	40.6	6.4	47.0	68.2	-21.2	Peak	Vertical
6	10520	28.5	6.4	34.9	54	-19.1	Average	Vertical
7	15780	36.0	11.7	47.7	74	-26.3	Peak	Vertical
8	15780	24.5	11.7	36.2	54	-17.8	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(106RU)_Channel 60								
1	10600	38.4	6.6	44.9	74	-29.1	Peak	Horizontal
2	10600	28.2	6.6	34.7	54	-19.3	Average	Horizontal
3	15900	34.2	11.8	45.9	74	-28.1	Peak	Horizontal
4	15900	24.0	11.8	35.8	54	-18.2	Average	Horizontal
5	10600	38.2	6.6	44.8	74	-29.2	Peak	Vertical
6	10600	25.3	6.6	31.9	54	-22.1	Average	Vertical
7	15900	36.1	11.8	47.9	74	-26.1	Peak	Vertical
8	15900	23.8	11.8	35.6	54	-18.4	Average	Vertical
MIMO_Ant. 0+1+2+3_ IEEE 802.11ax-HE20_(106RU)_Channel 64								
1	10640	41.1	6.7	47.7	74	-26.3	Peak	Horizontal
2	10640	25.2	6.7	31.8	54	-22.2	Average	Horizontal
3	15960	35.6	11.8	47.4	74	-26.6	Peak	Horizontal
4	15960	24.0	11.8	35.8	54	-18.2	Average	Horizontal
5	10640	38.9	6.7	45.6	74	-28.4	Peak	Vertical
6	10640	28.5	6.7	35.2	54	-18.8	Average	Vertical
7	15960	35.0	11.8	46.8	74	-27.2	Peak	Vertical
8	15960	23.9	11.8	35.7	54	-18.3	Average	Vertical

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Fax: +86-755-28230886

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No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 100								
1	11000	38.3	7.5	45.8	74	-28.2	Peak	Horizontal
2	11000	27.7	7.5	35.2	54	-18.8	Average	Horizontal
3	16500	36.9	12.3	49.1	68.2	-19.1	Peak	Horizontal
4	16500	24.5	12.3	36.8	54	-17.2	Average	Horizontal
5	11000	37.9	7.5	45.4	74	-28.6	Peak	Vertical
6	11000	27.7	7.5	35.2	54	-18.8	Average	Vertical
7	16500	36.9	12.3	49.1	68.2	-19.1	Peak	Vertical
8	16500	24.4	12.3	36.7	54	-17.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 116								
1	11160	40.0	7.4	47.4	74	-26.6	Peak	Horizontal
2	11160	28.7	7.4	36.1	54	-17.9	Average	Horizontal
3	16740	34.8	12.5	47.2	68.2	-21.0	Peak	Horizontal
4	16740	23.4	12.5	35.8	54	-18.2	Average	Horizontal
5	11160	41.1	7.4	48.5	74	-25.5	Peak	Vertical
6	11160	28.8	7.4	36.2	54	-17.8	Average	Vertical
7	16740	36.5	12.5	48.9	68.2	-19.3	Peak	Vertical
8	16740	23.3	12.5	35.7	54	-18.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 140								
1	11400	39.6	7.2	46.7	74	-27.3	Peak	Horizontal
2	11400	25.3	7.2	32.4	54	-21.6	Average	Horizontal
3	17100	36.4	12.9	49.3	68.2	-18.9	Peak	Horizontal
4	17100	24.1	12.9	37.0	54	-17.0	Average	Horizontal
5	11400	38.9	7.2	46.0	74	-28.0	Peak	Vertical
6	11400	25.5	7.2	32.7	54	-21.3	Average	Vertical
7	17100	36.3	12.9	49.1	68.2	-19.1	Peak	Vertical
8	17100	23.9	12.9	36.8	54	-17.2	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 149								
1	11490	40.1	7.1	47.2	74	-26.8	Peak	Horizontal
2	11490	24.7	7.1	31.8	54	-22.2	Average	Horizontal
3	17235	35.1	13.2	48.3	68.2	-19.9	Peak	Horizontal
4	17235	23.2	13.2	36.4	54	-17.6	Average	Horizontal
5	11490	40.1	7.1	47.2	74	-26.8	Peak	Vertical
6	11490	28.0	7.1	35.1	54	-18.9	Average	Vertical
7	17235	37.0	13.2	50.2	68.2	-18.0	Peak	Vertical
8	17235	23.1	13.2	36.3	54	-17.7	Average	Vertical

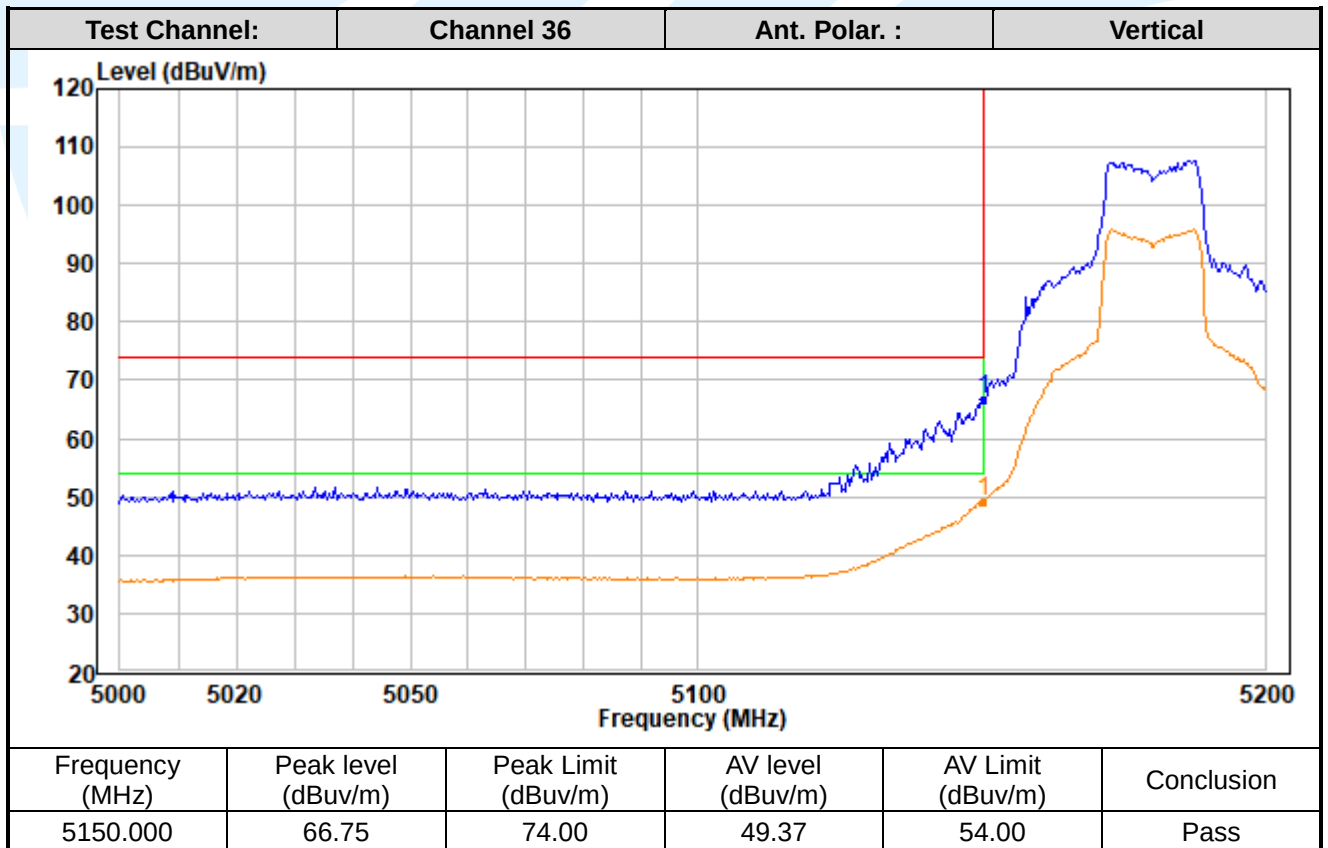
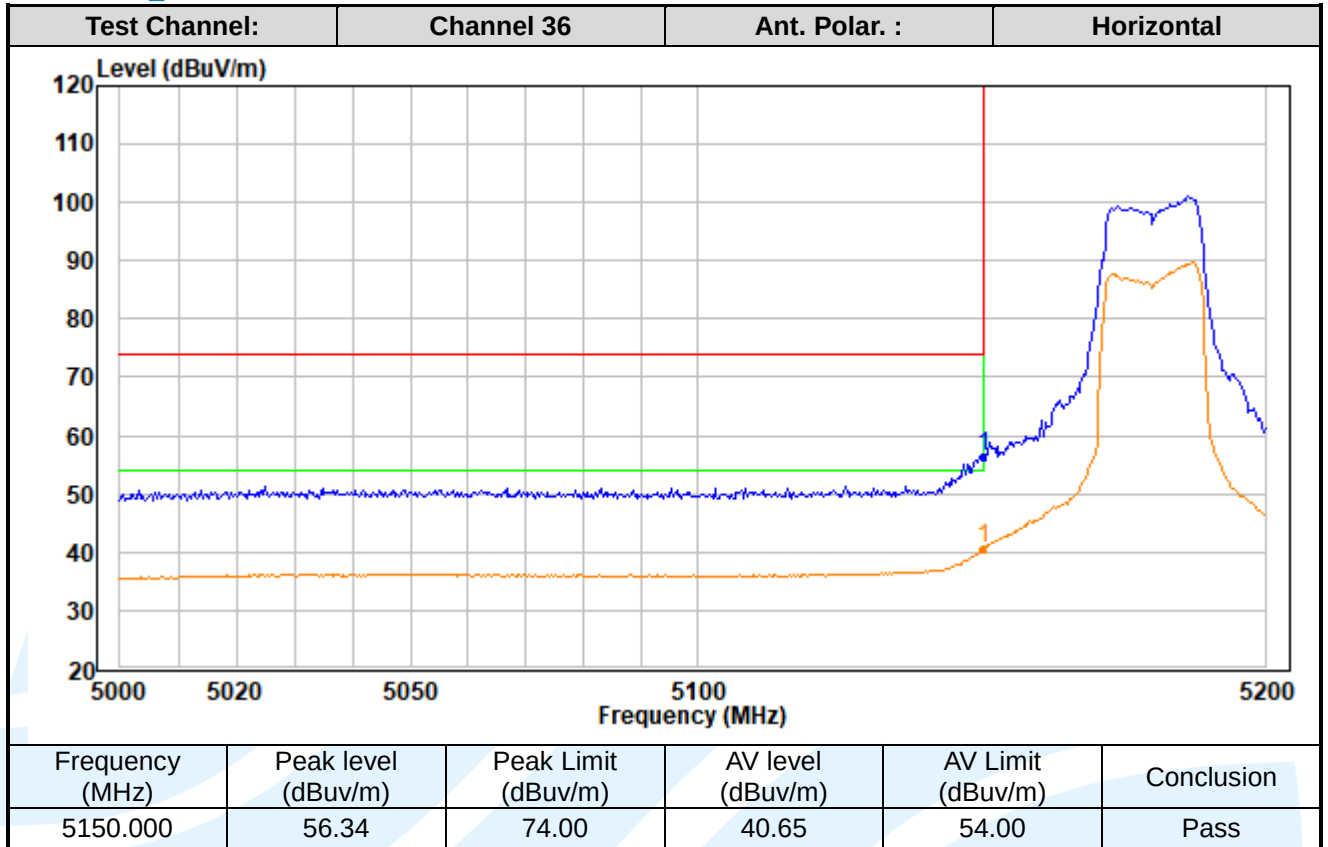
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 157								
1	11570	39.4	7.2	46.6	74	-27.4	Peak	Horizontal
2	11570	27.5	7.2	34.7	54	-19.3	Average	Horizontal
3	17355	35.9	13.4	49.3	68.2	-18.9	Peak	Horizontal
4	17355	23.4	13.4	36.8	54	-17.2	Average	Horizontal
5	11570	38.7	7.2	45.9	74	-28.1	Peak	Vertical
6	11570	28.6	7.2	35.8	54	-18.2	Average	Vertical
7	17355	35.3	13.4	48.7	68.2	-19.5	Peak	Vertical
8	17355	23.3	13.4	36.7	54	-17.3	Average	Vertical
MIMO_ Ant. 0+1+2+3_ IEEE 802.11ax-HE20 (106RU)_Channel 165								
1	11650	37.7	7.3	45.0	74	-29.0	Peak	Horizontal
2	11650	26.4	7.3	33.7	54	-20.3	Average	Horizontal
3	17475	23.2	13.6	49.1	68.2	-19.1	Peak	Horizontal
4	17475	23.2	13.6	36.8	54	-17.2	Average	Horizontal
5	11650	37.3	7.3	44.6	74	-29.4	Peak	Vertical
6	11650	26.5	7.3	33.8	54	-20.2	Average	Vertical
7	17475	33.7	13.6	47.3	68.2	-20.9	Peak	Vertical
8	17475	23.1	13.6	36.7	54	-17.3	Average	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)

Antenna 0_ IEEE 802.11a



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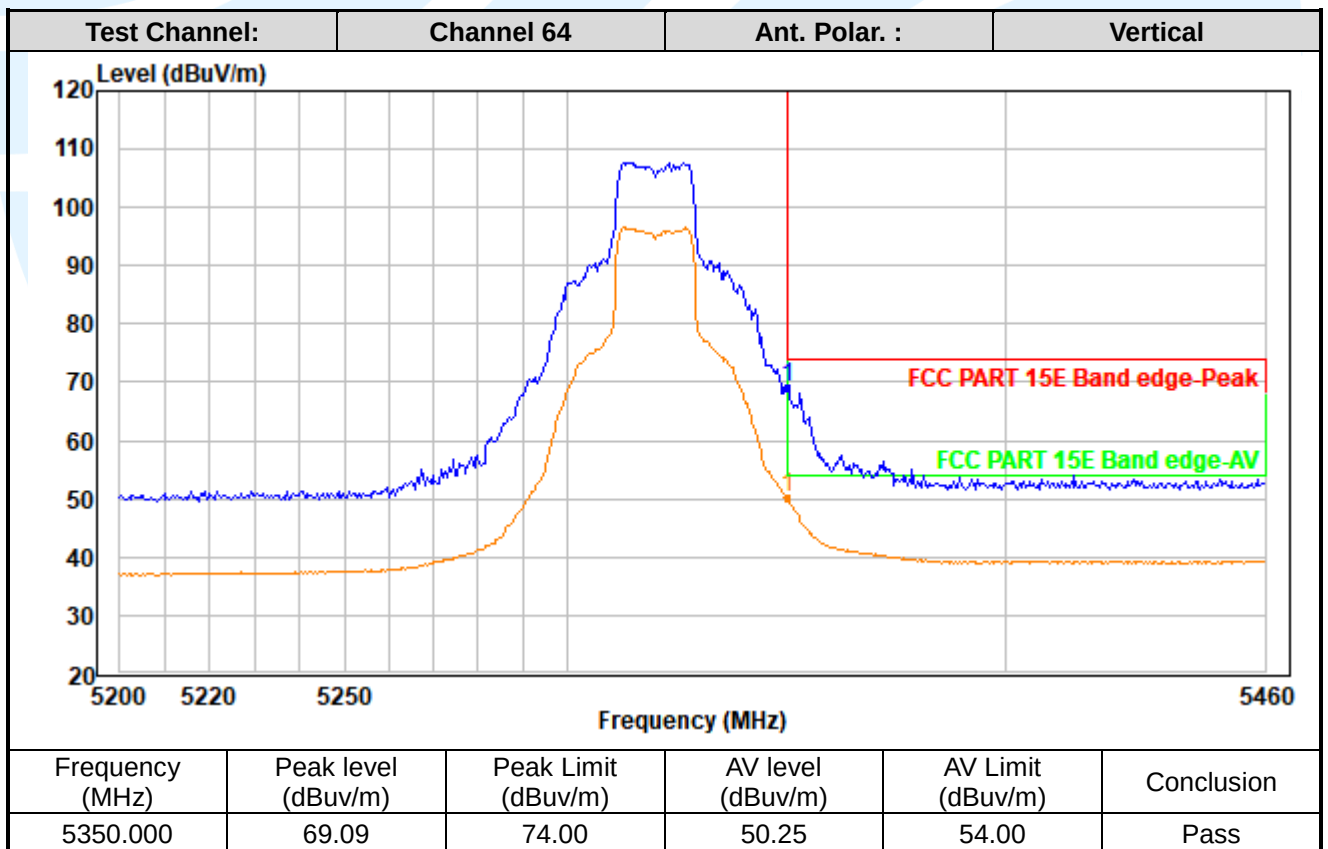
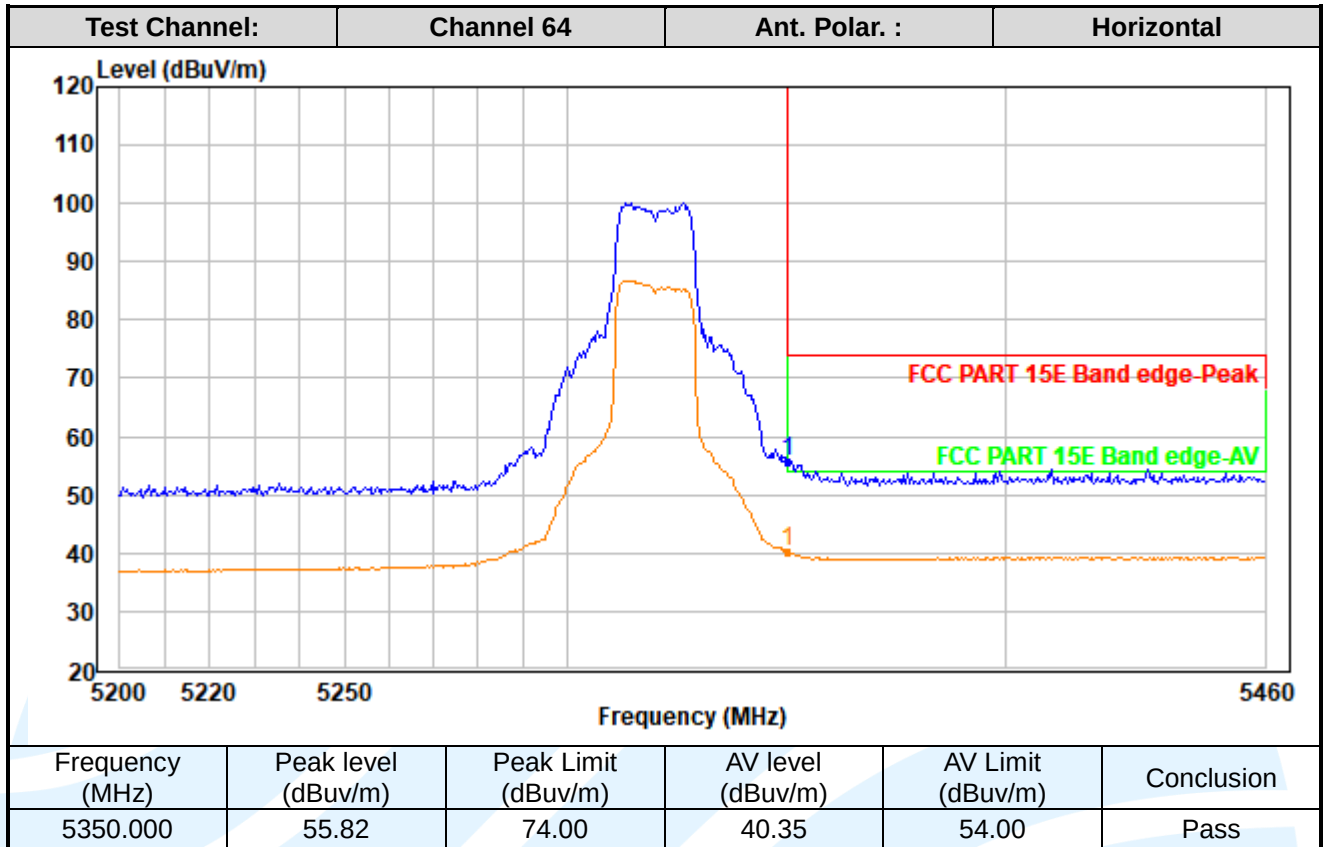
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

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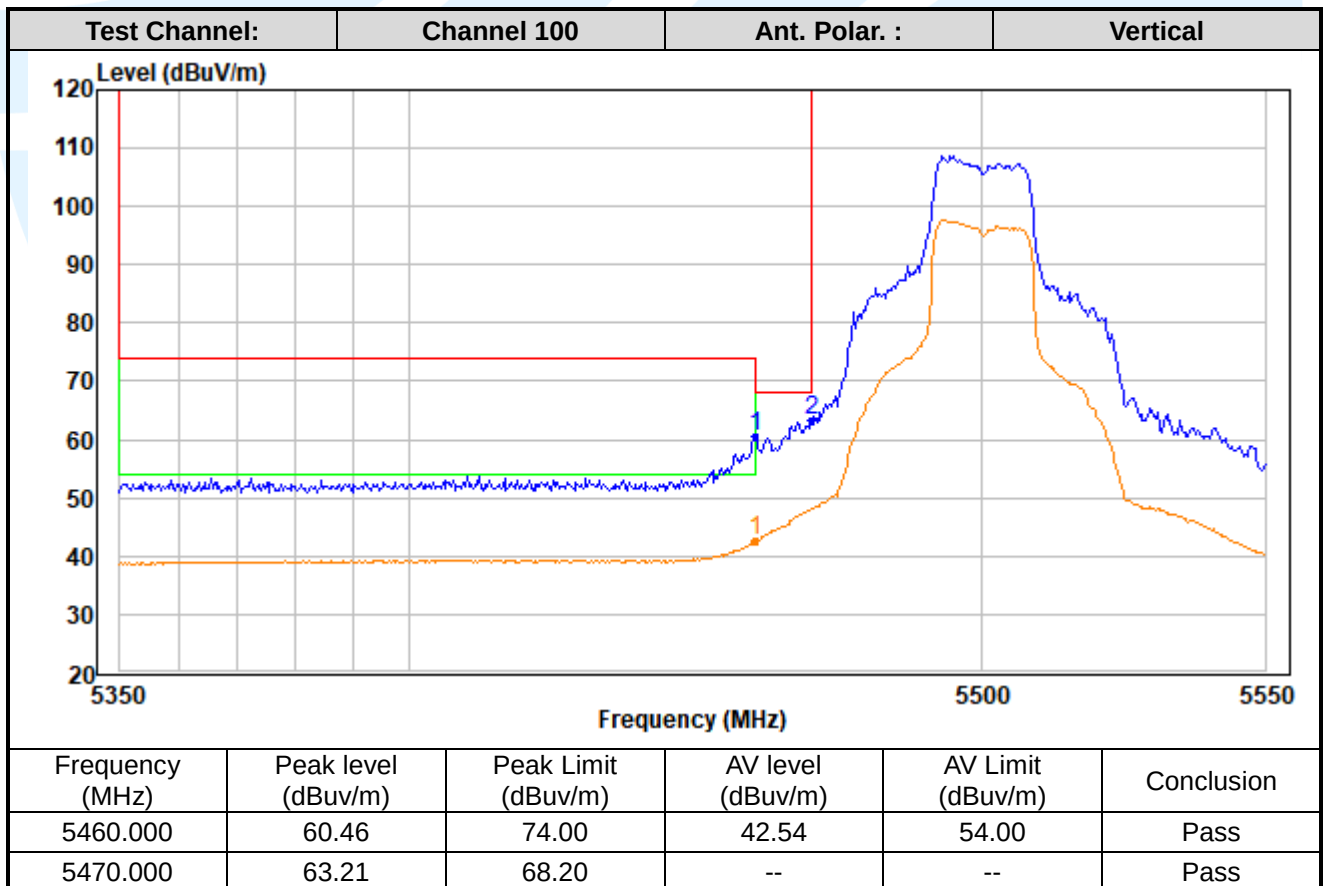
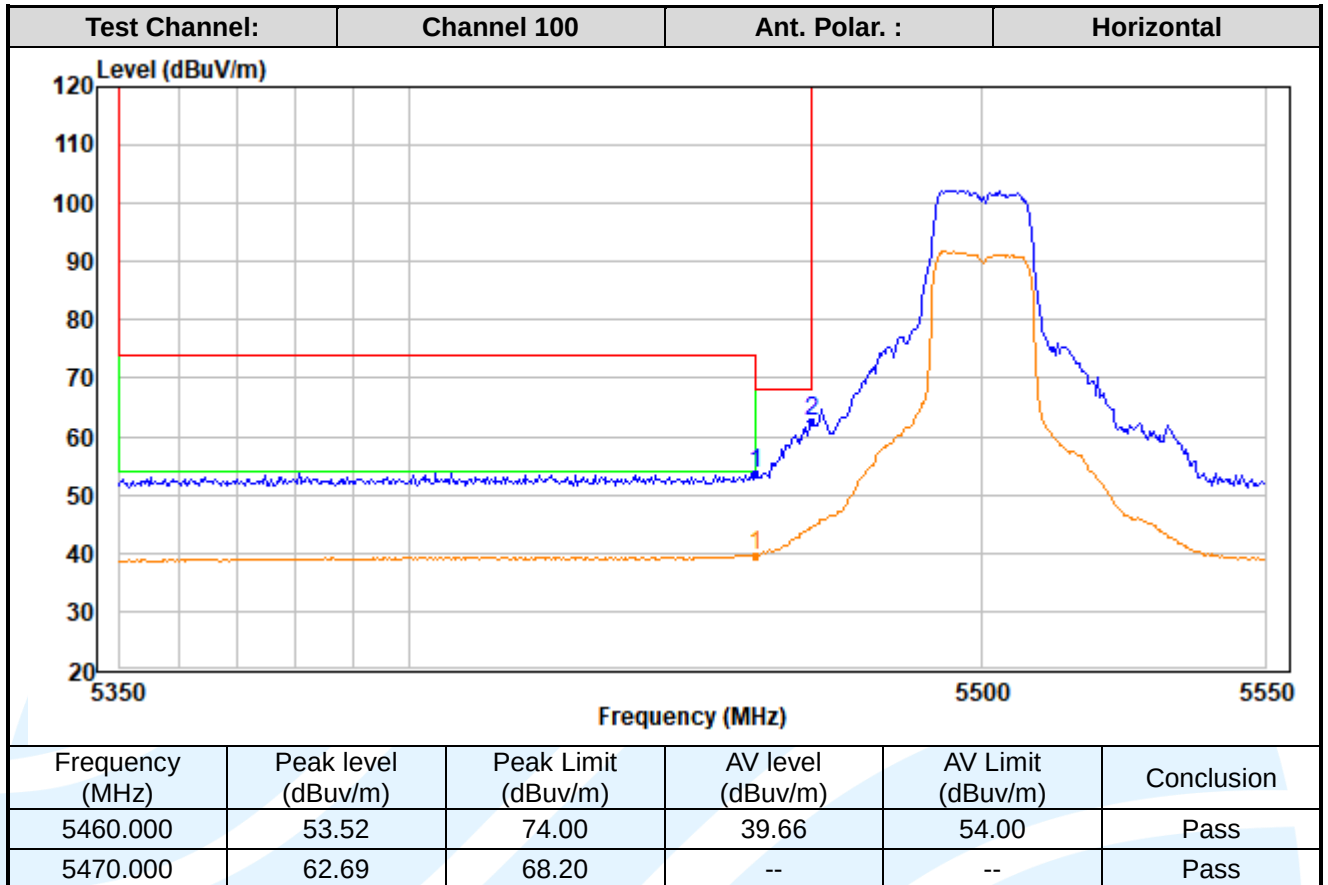
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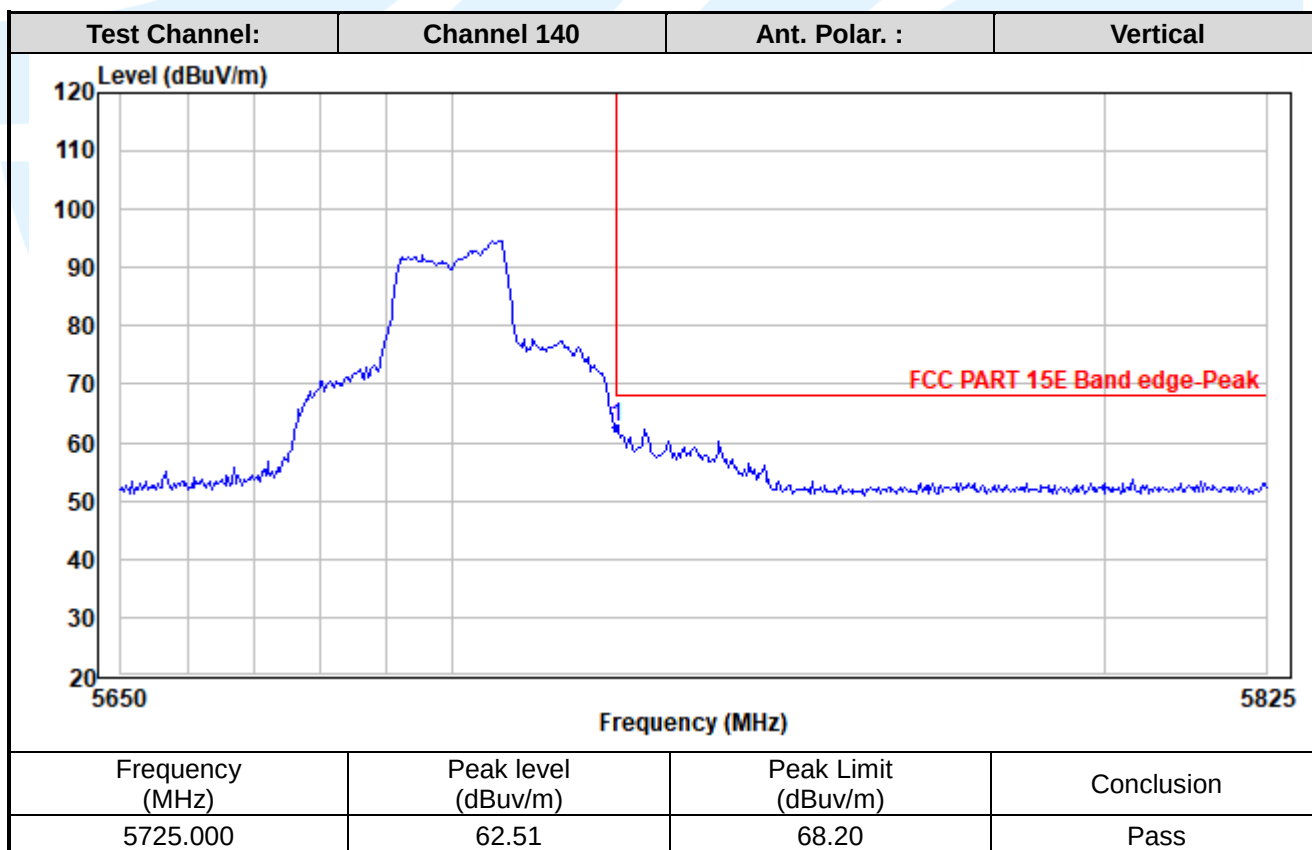
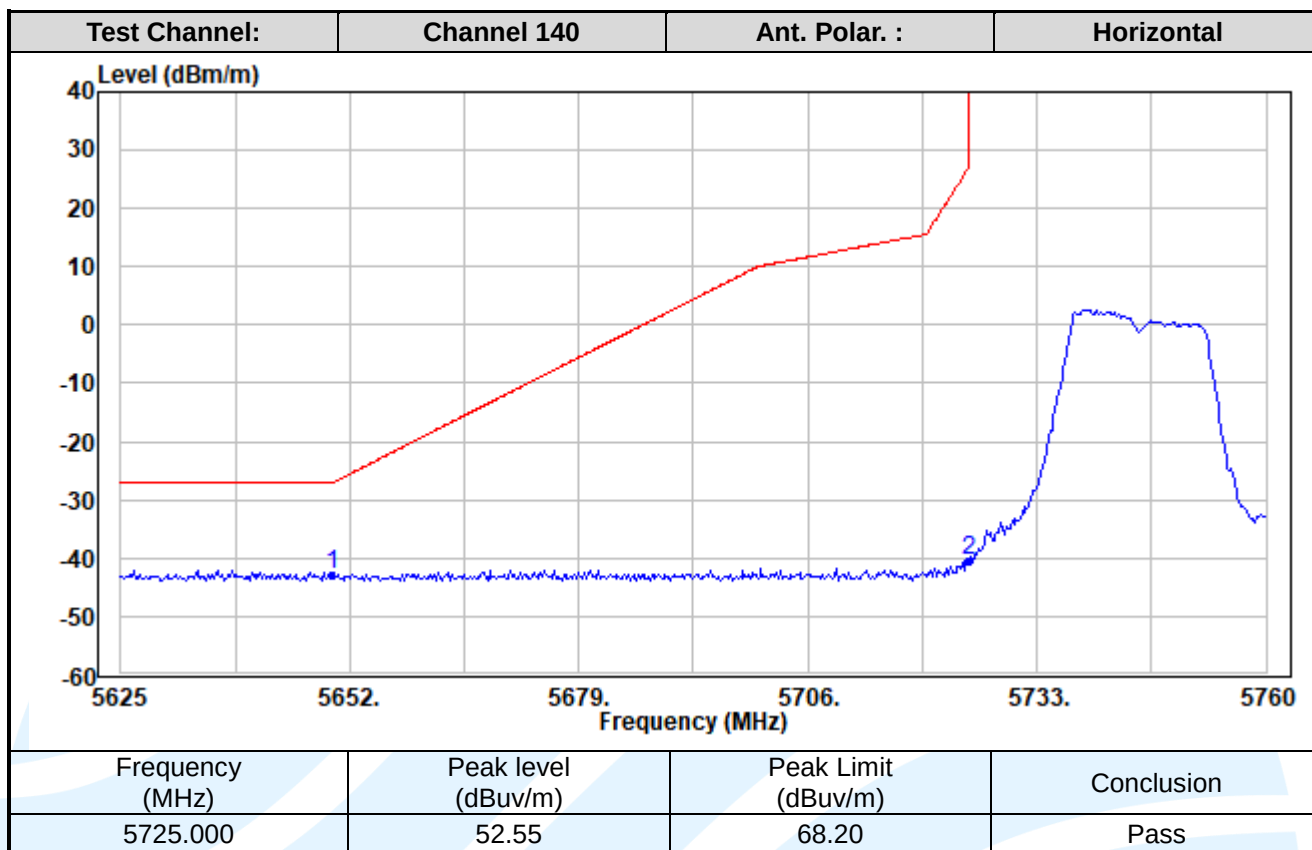
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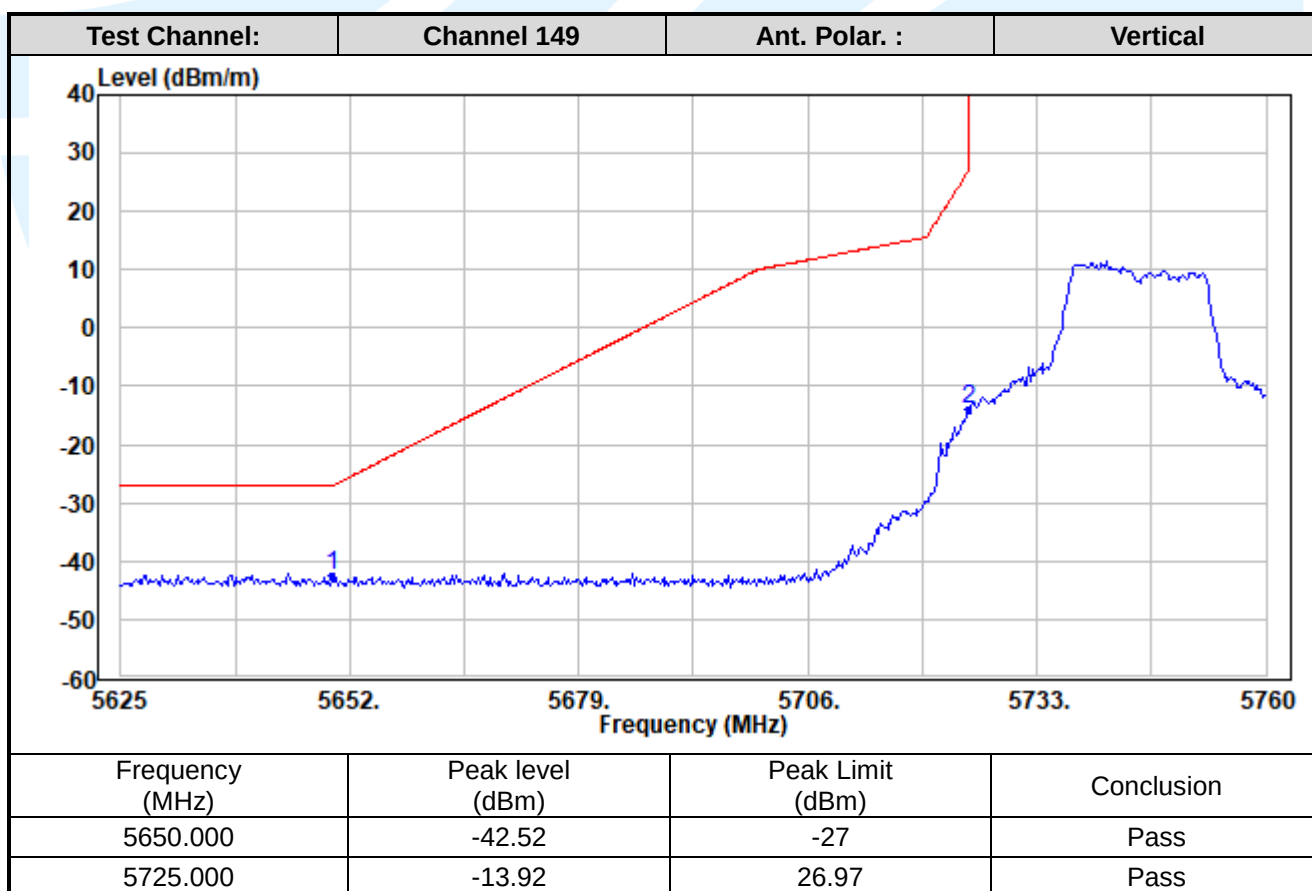
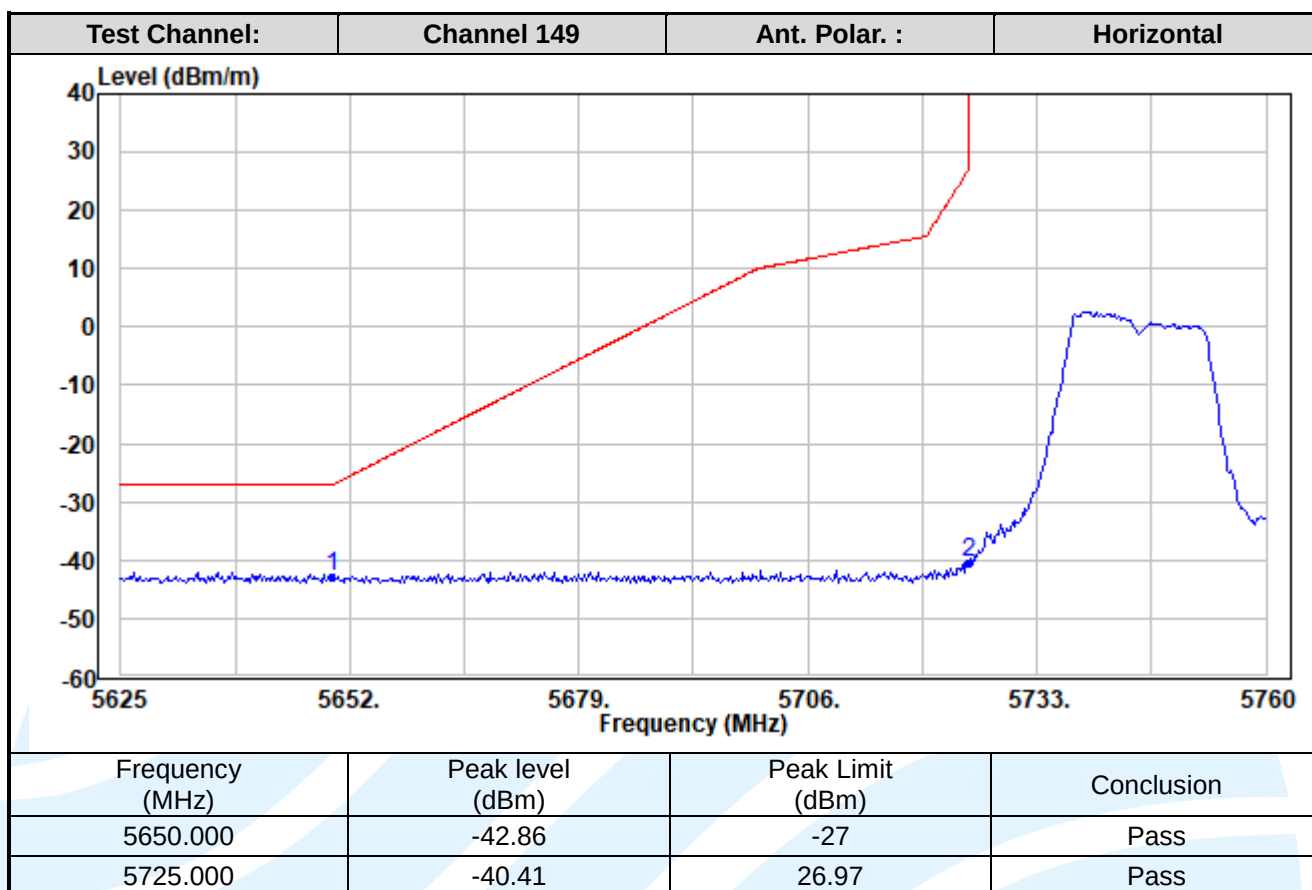
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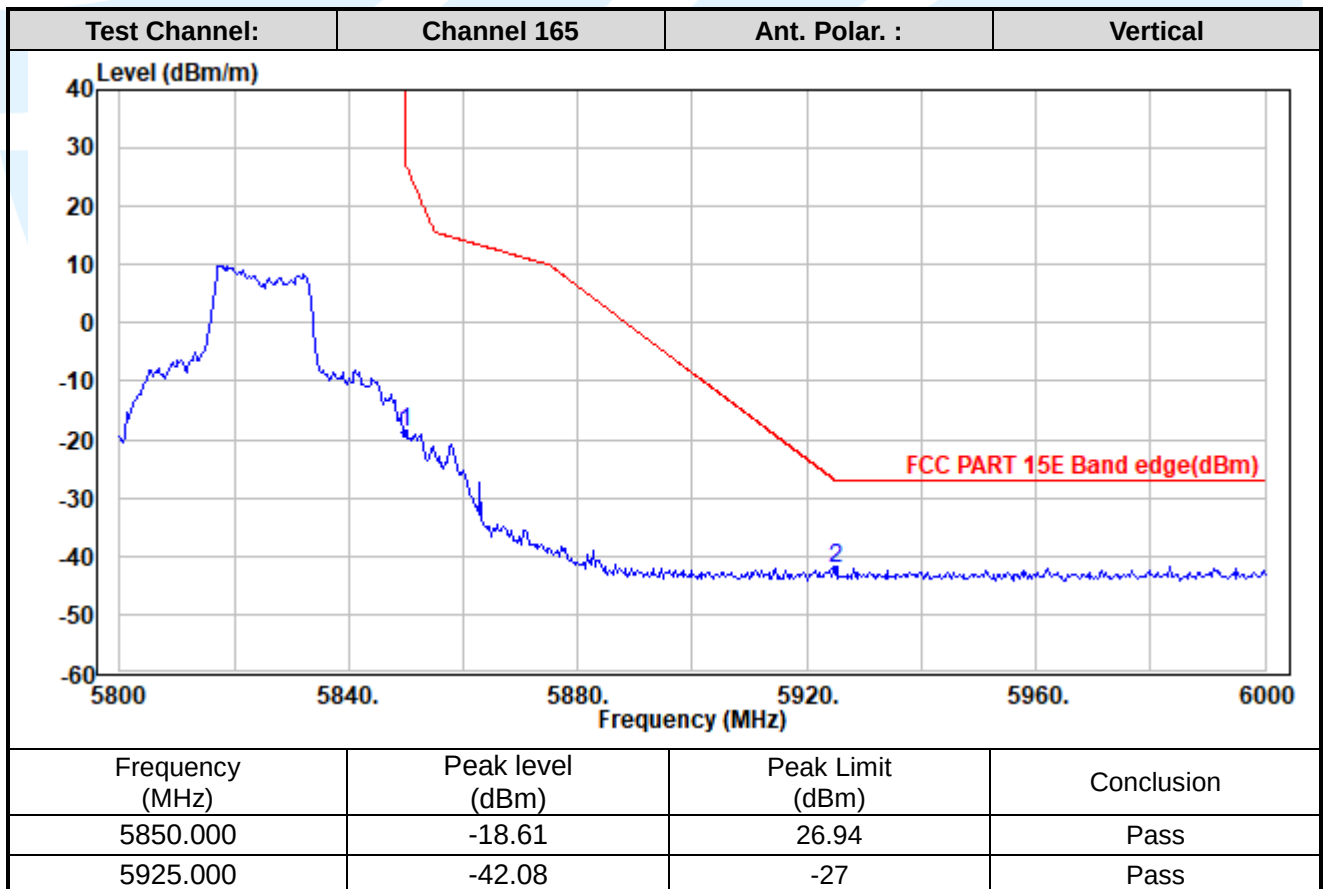
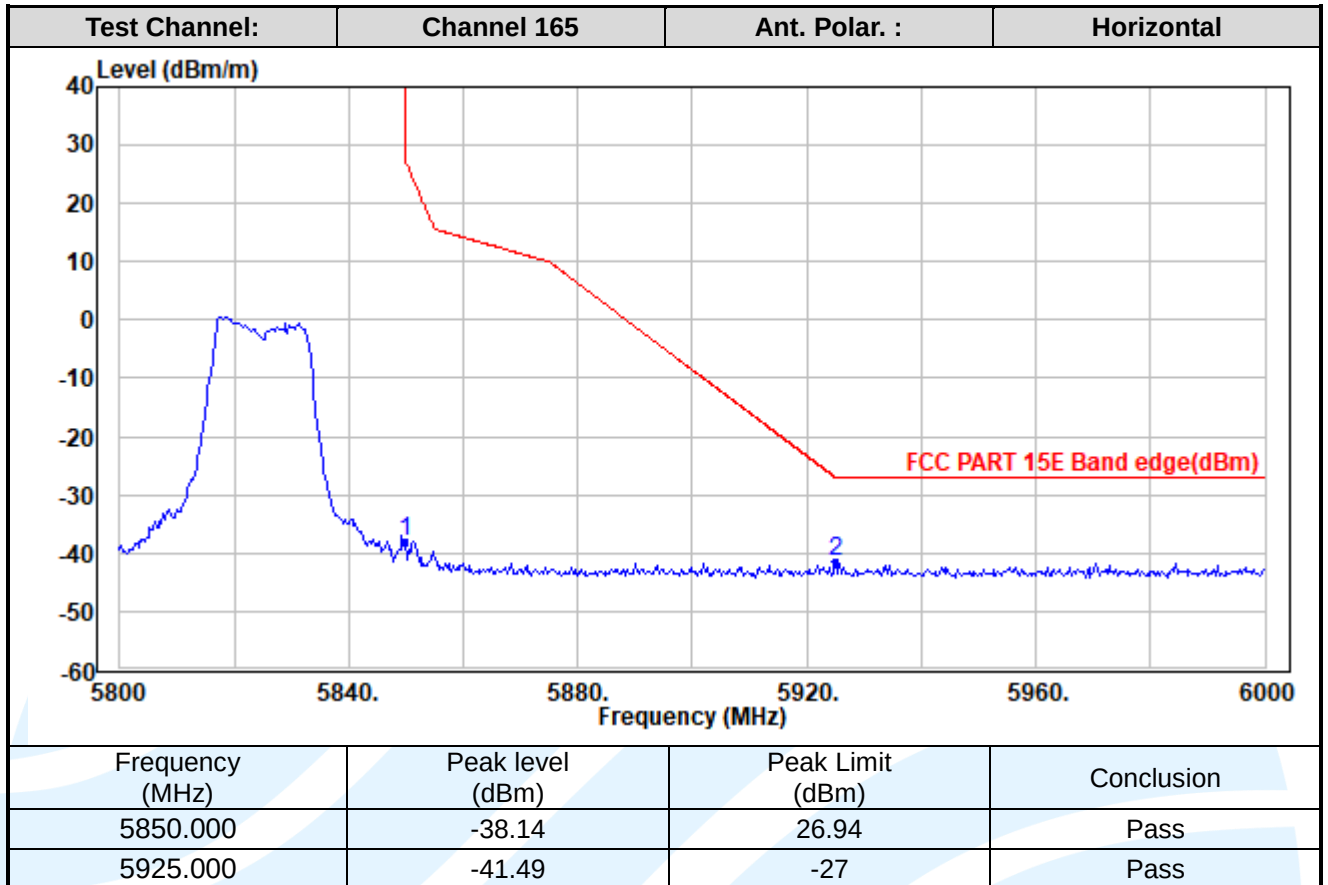
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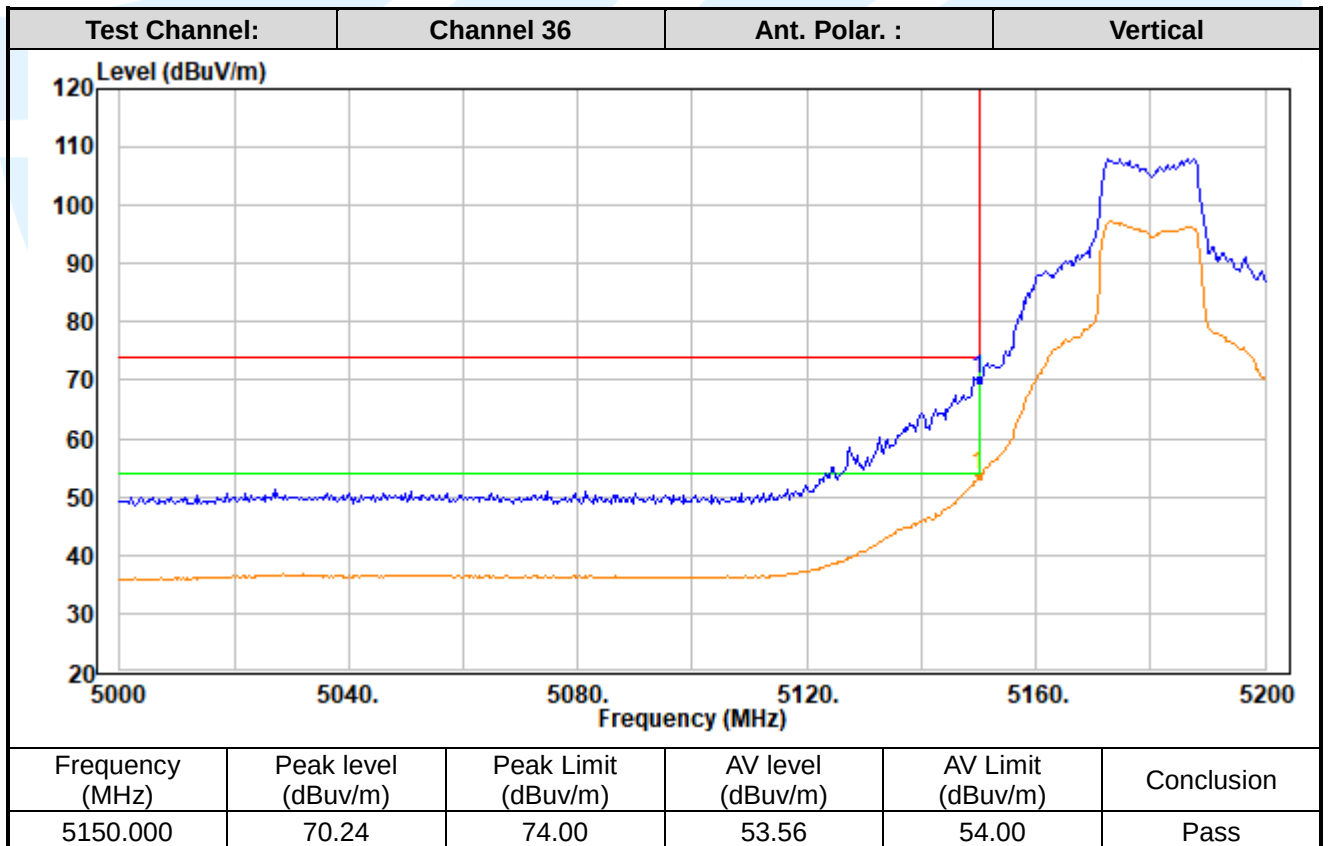
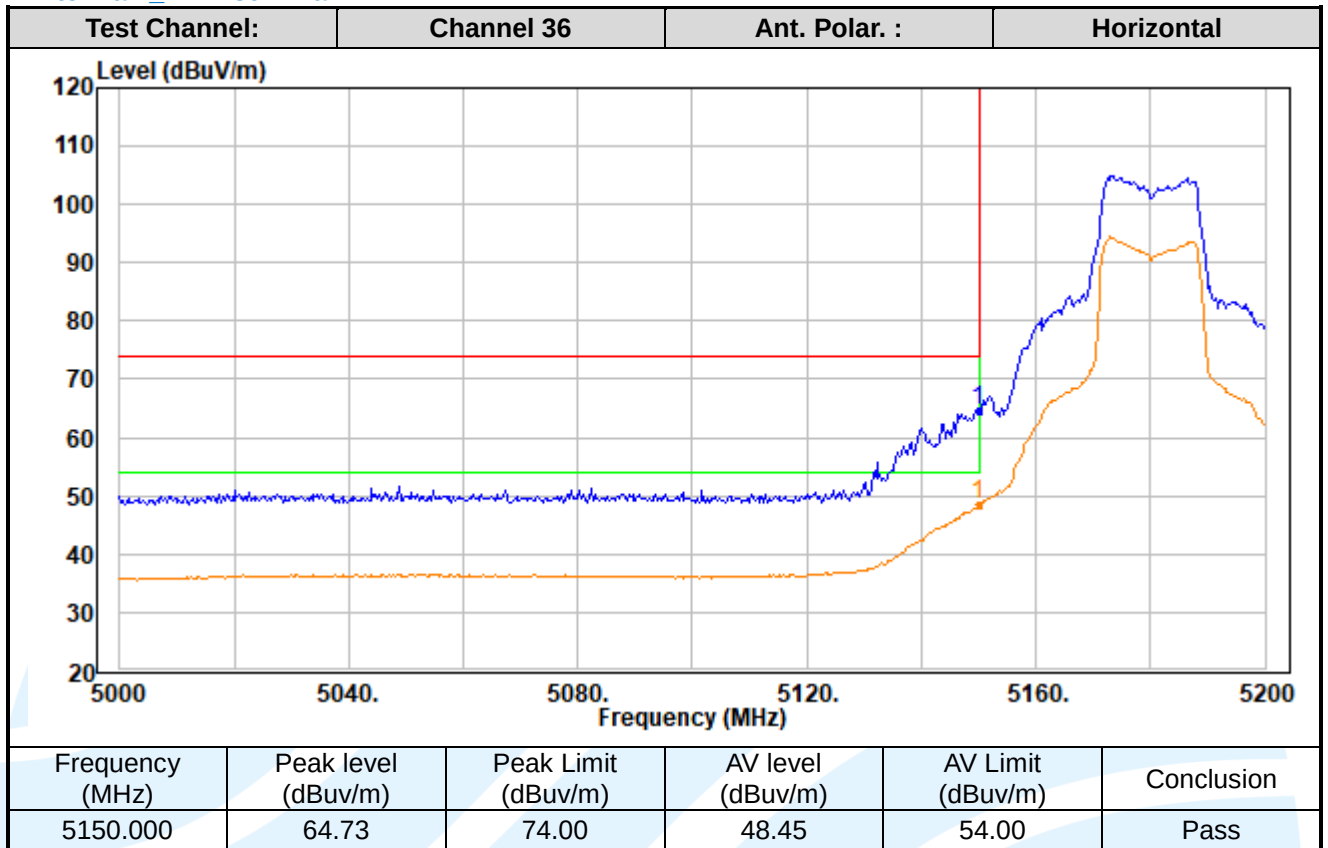
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Antenna 1_ IEEE 802.11a



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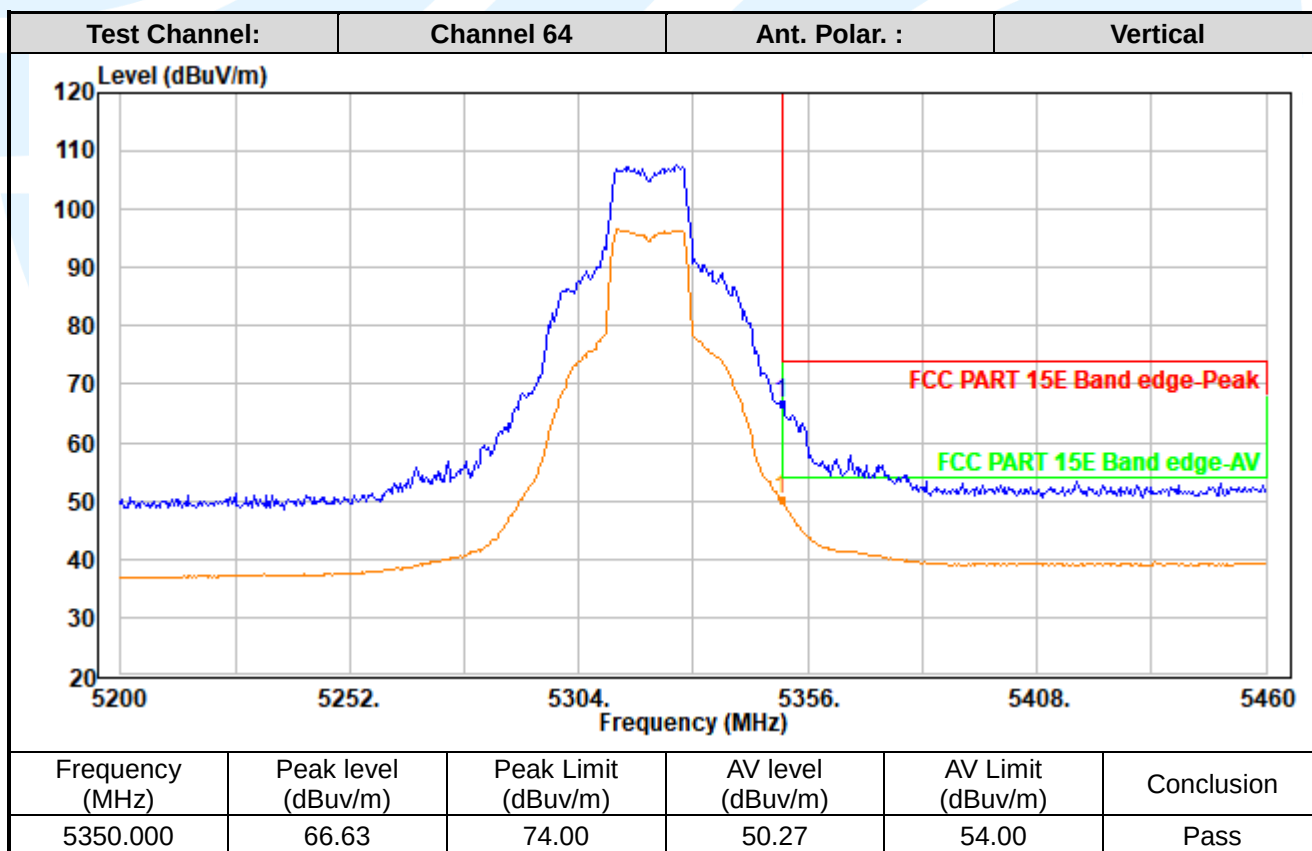
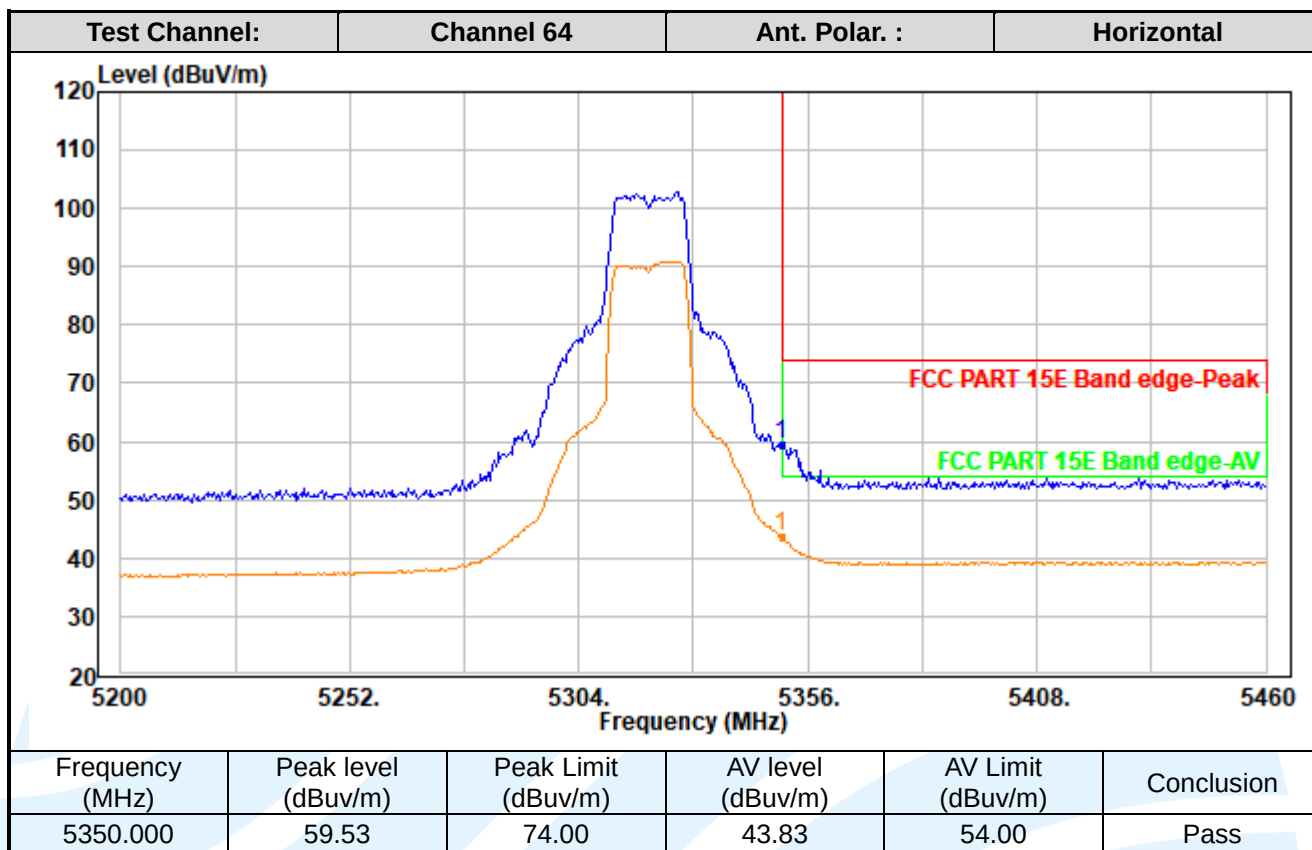
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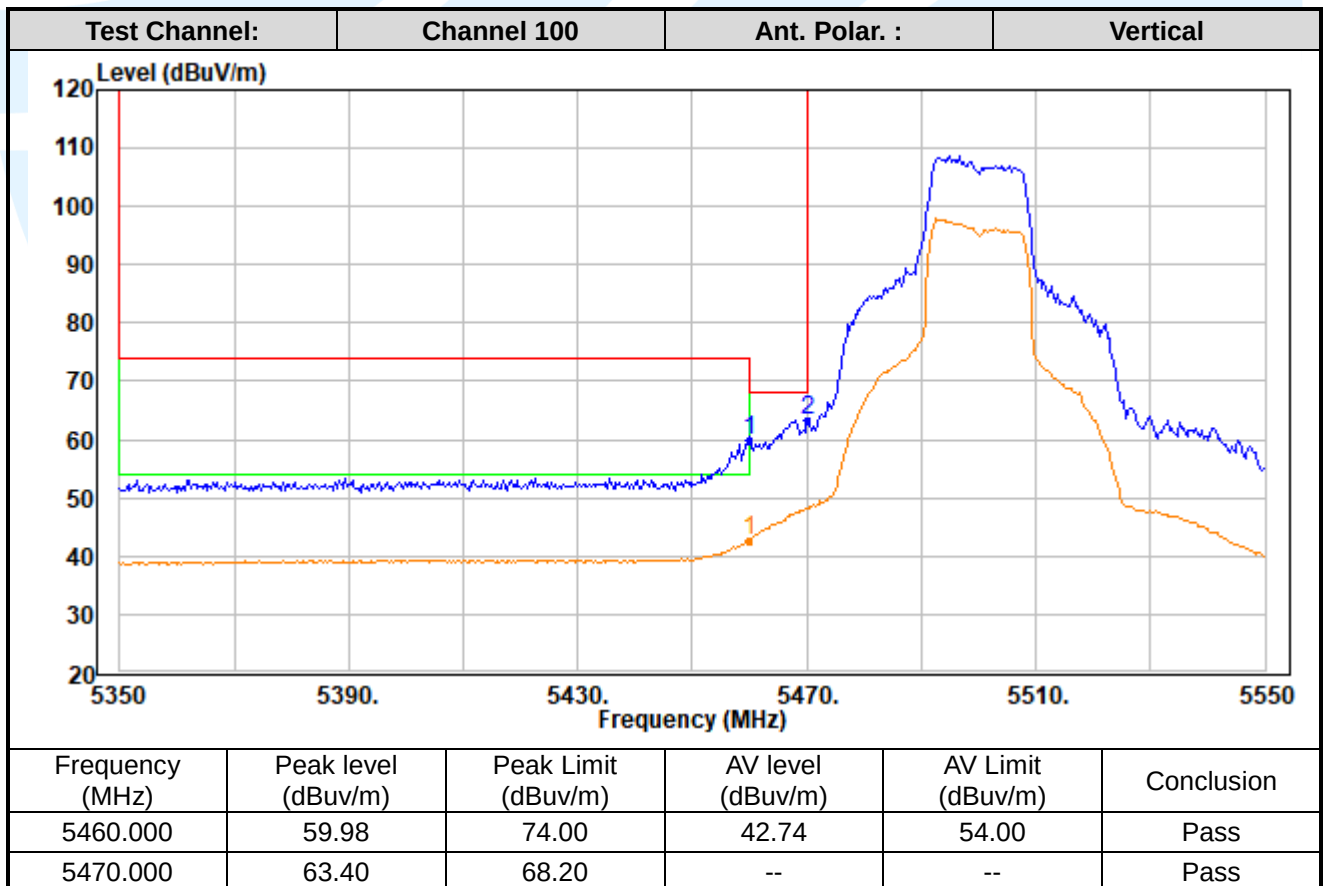
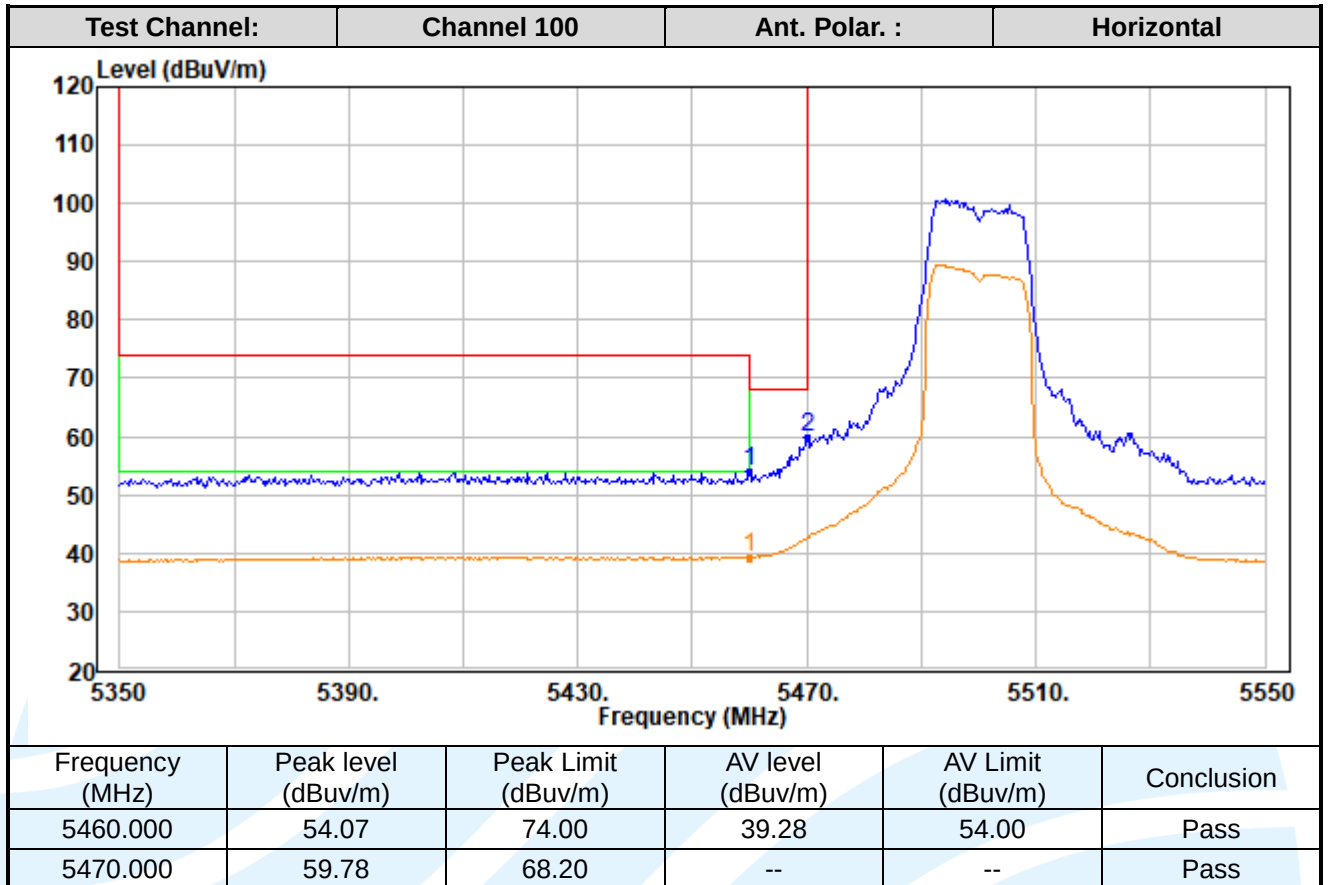
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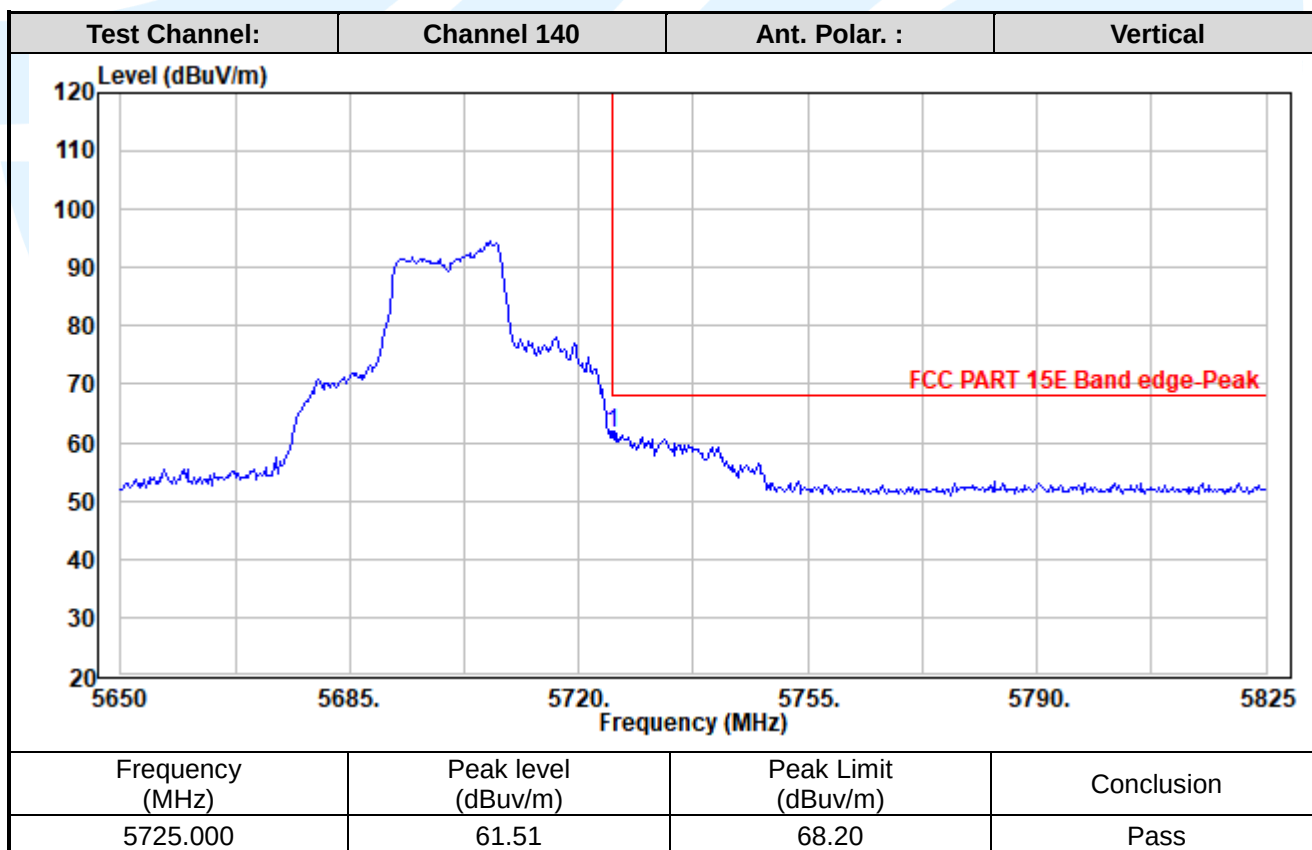
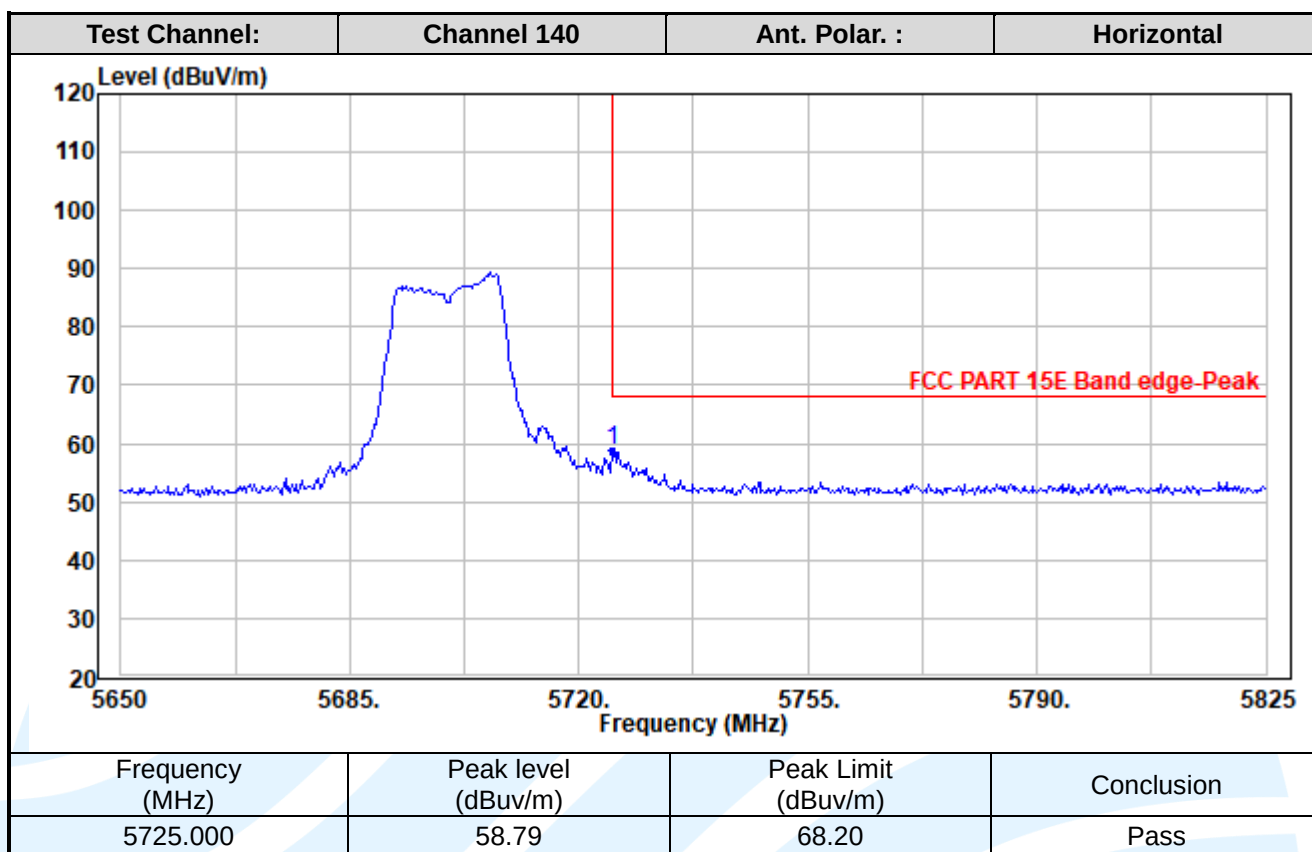
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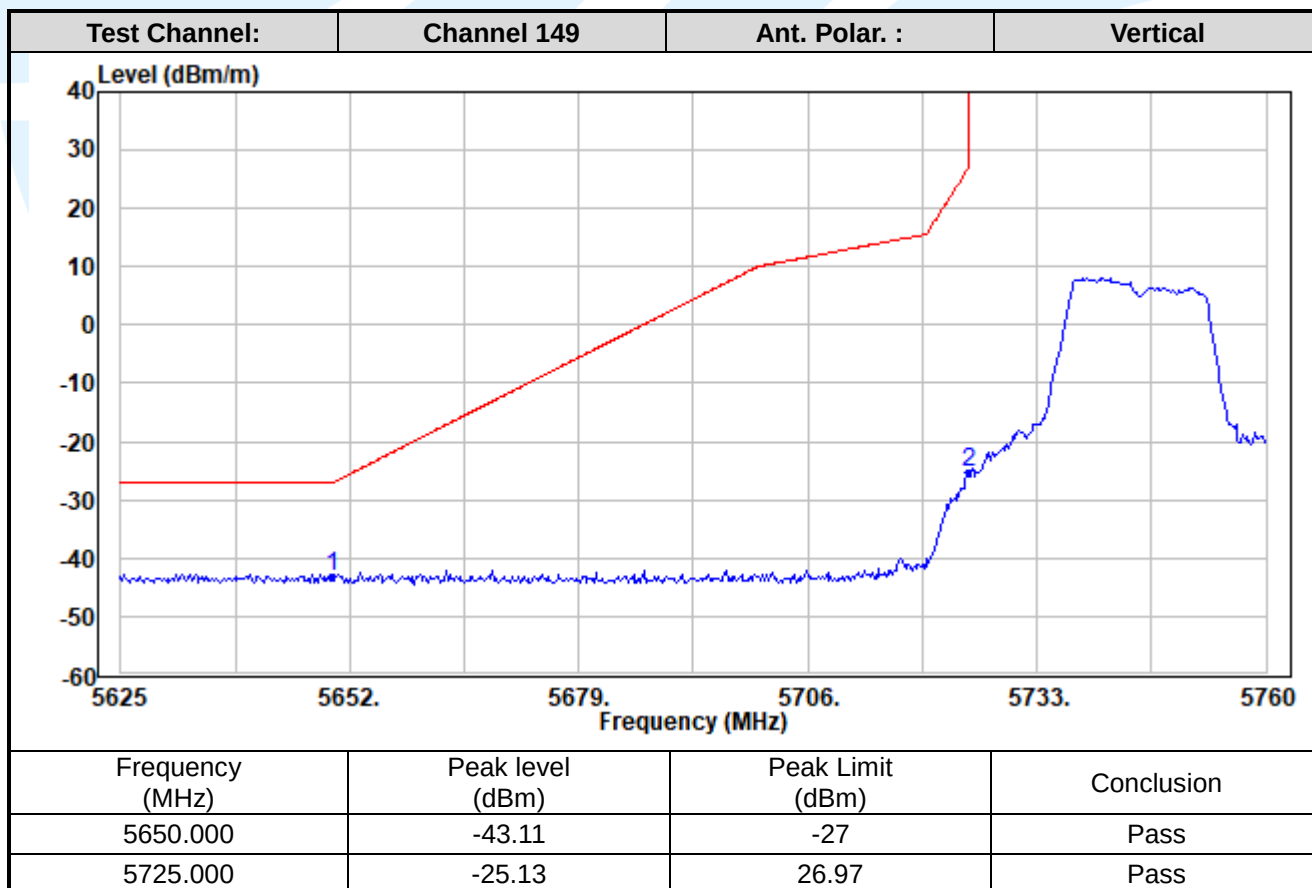
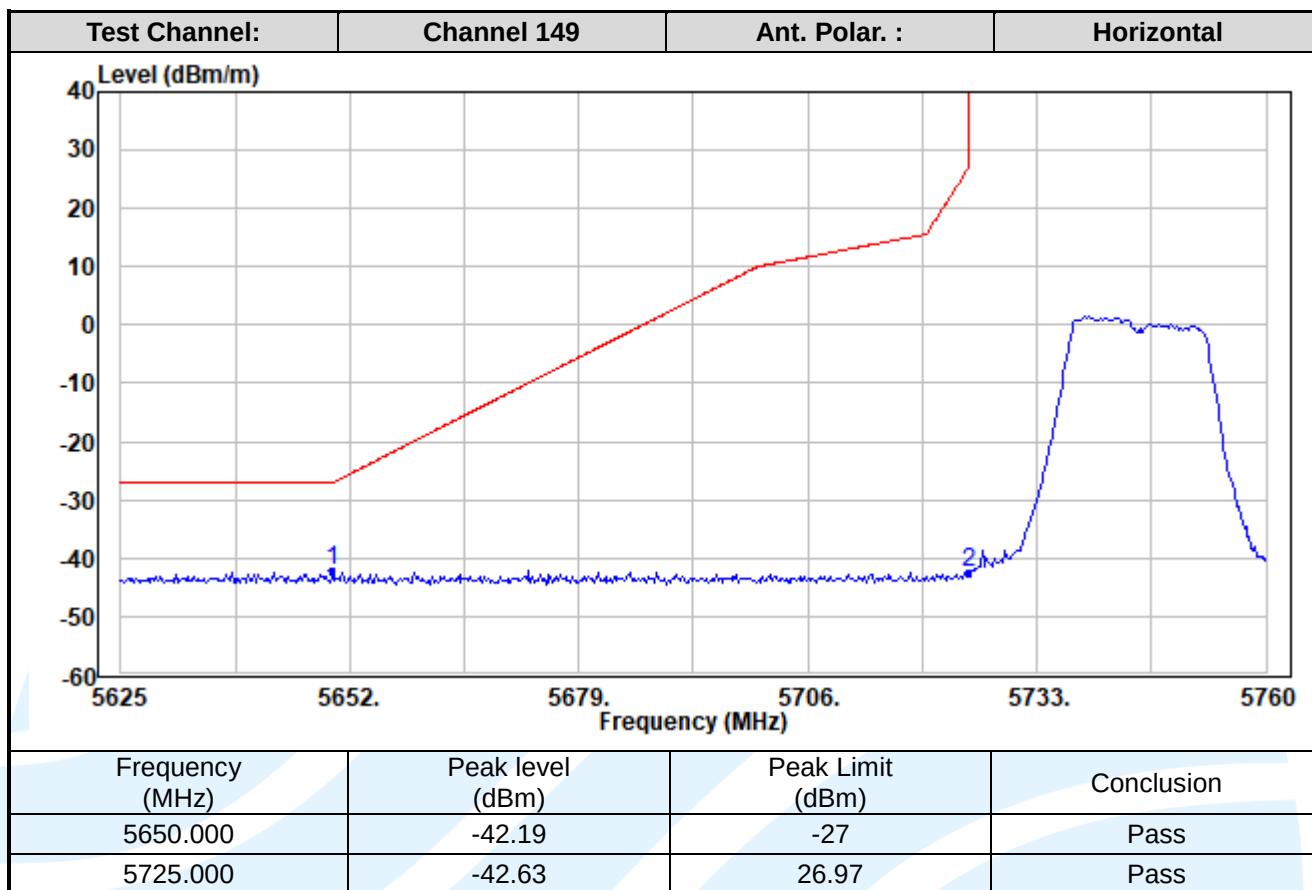
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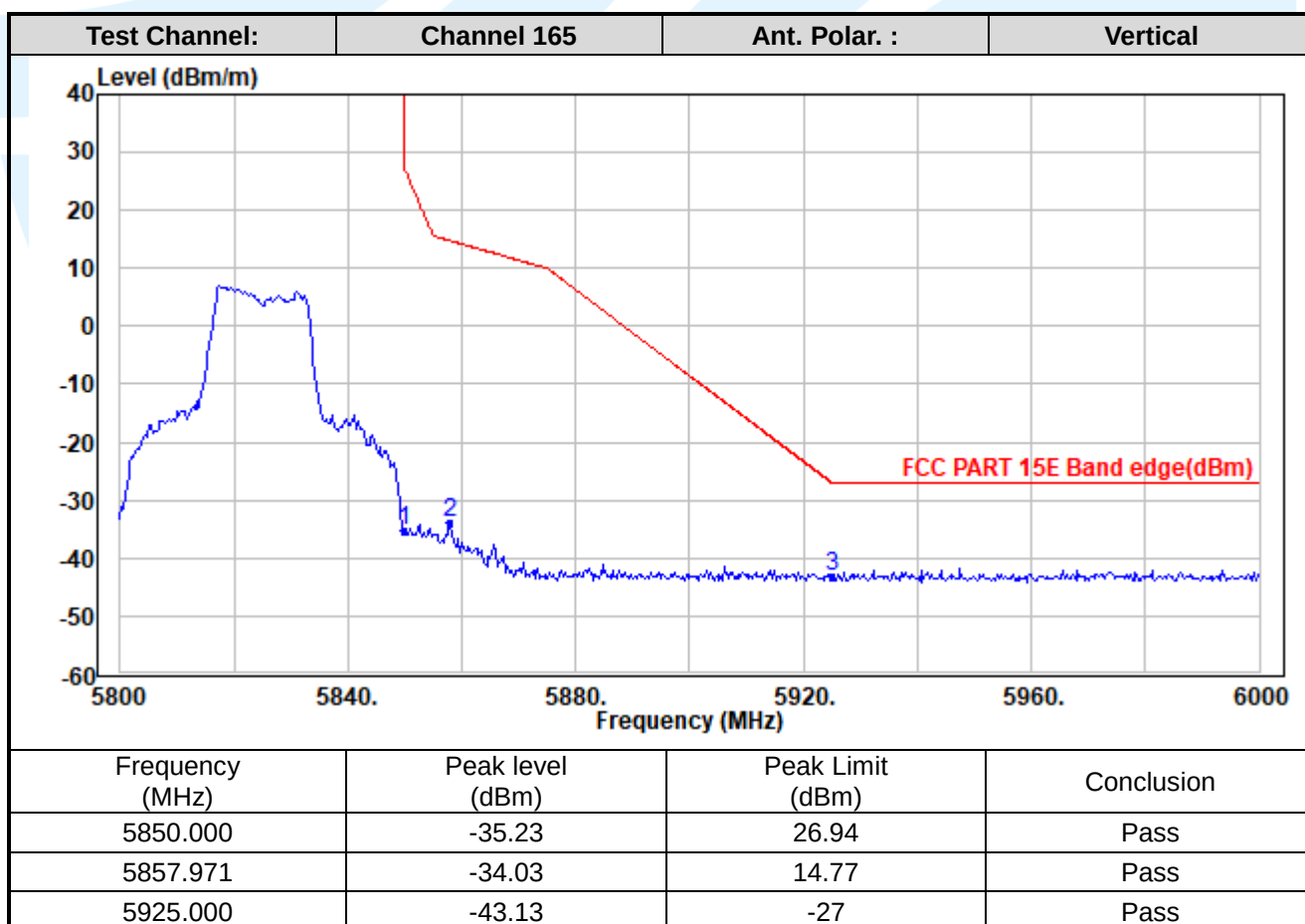
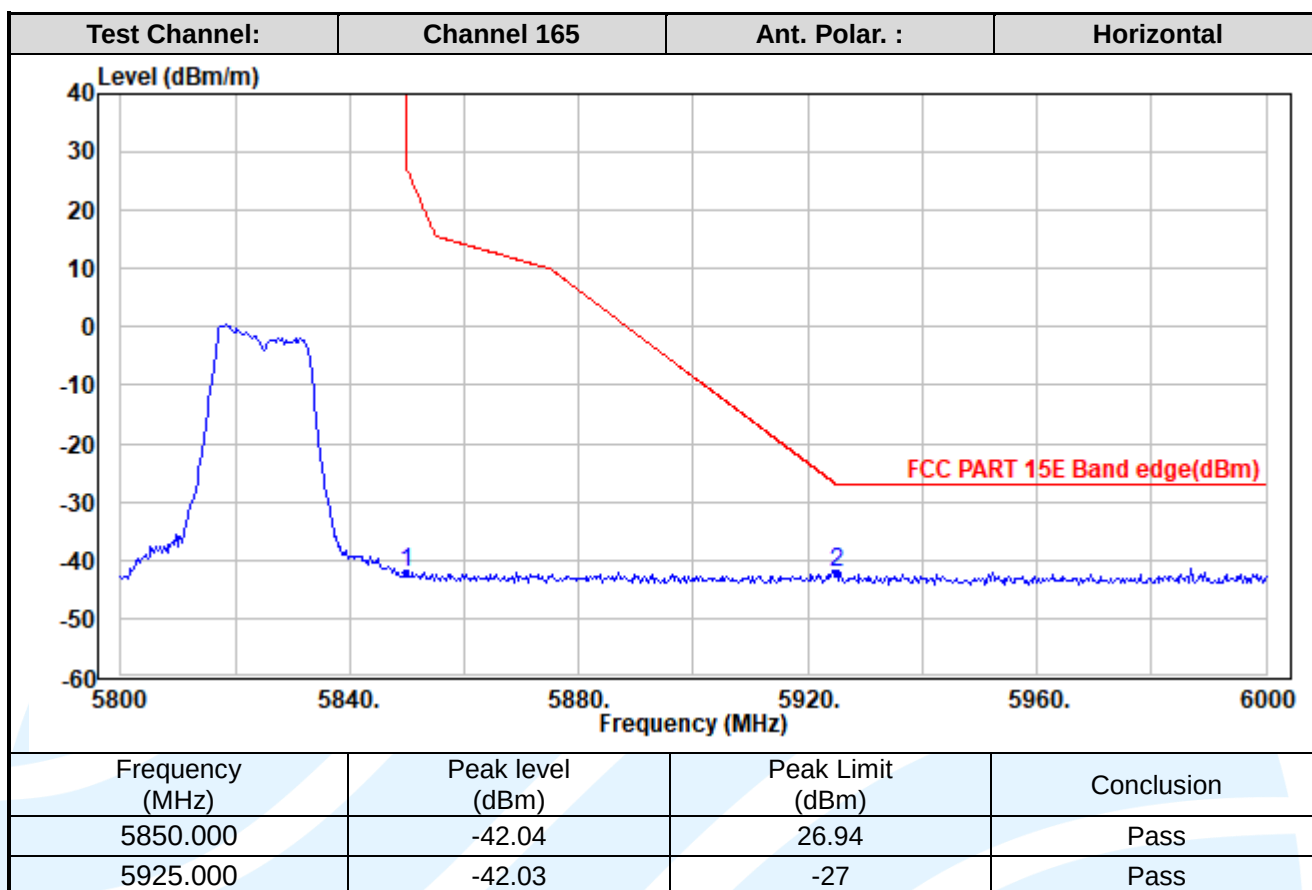
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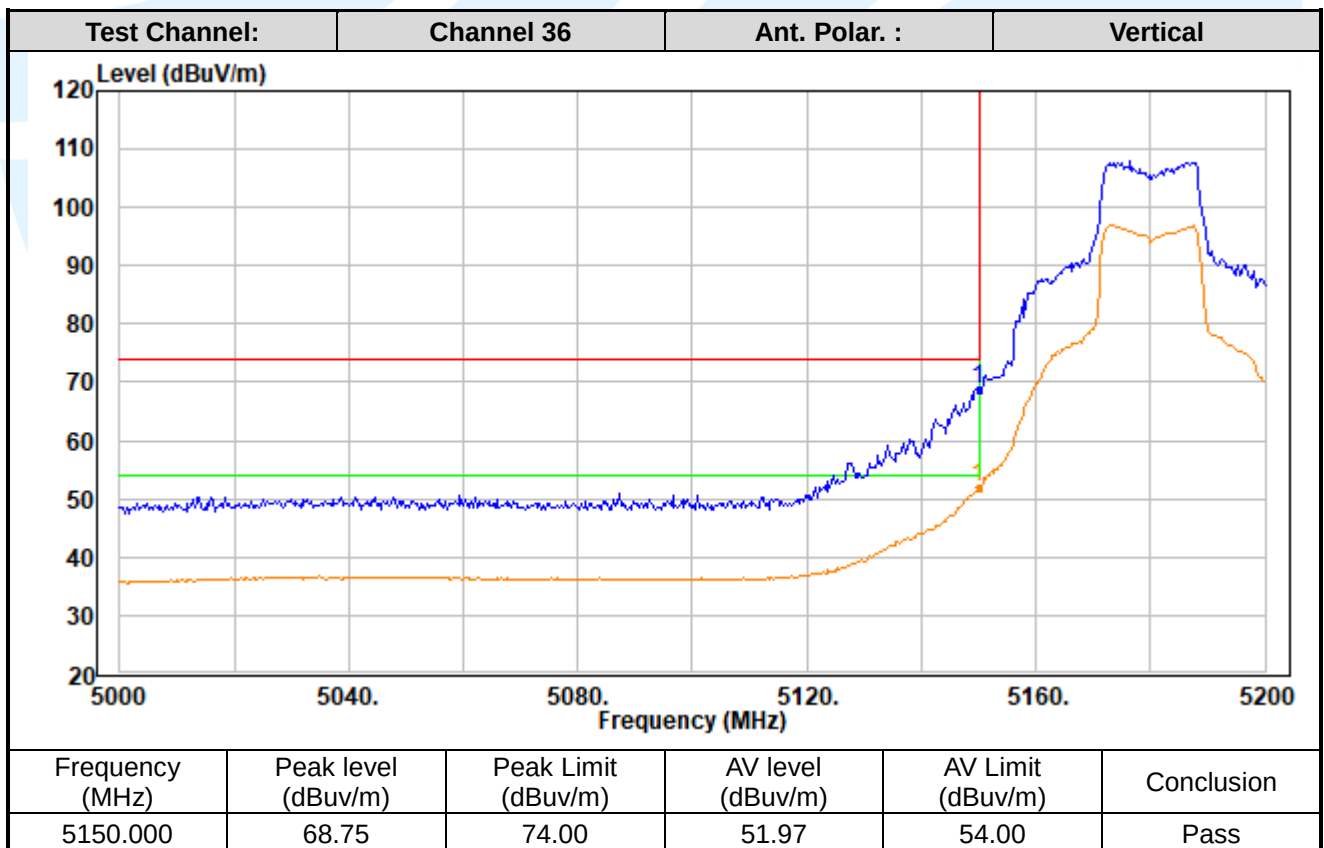
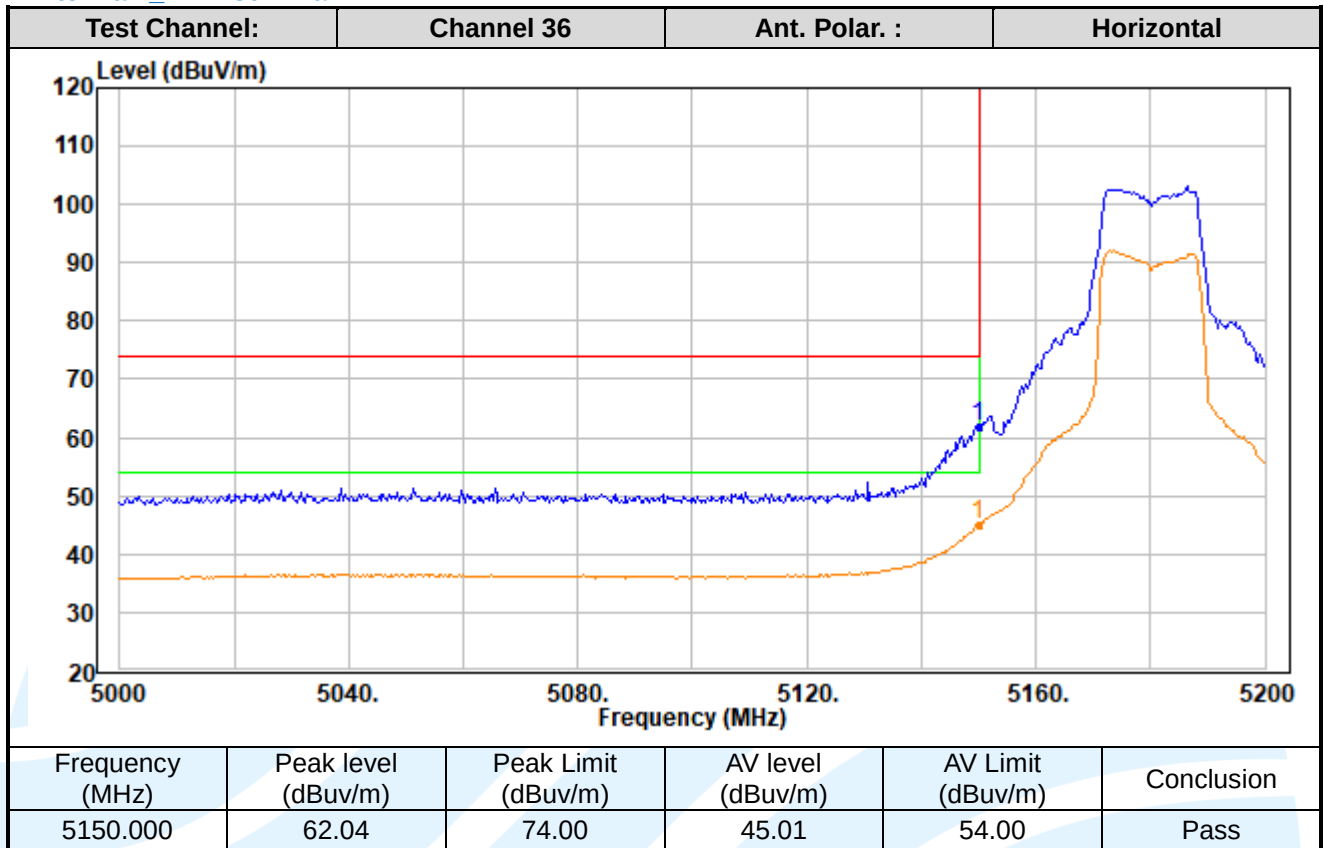
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Antenna 2_ IEEE 802.11a



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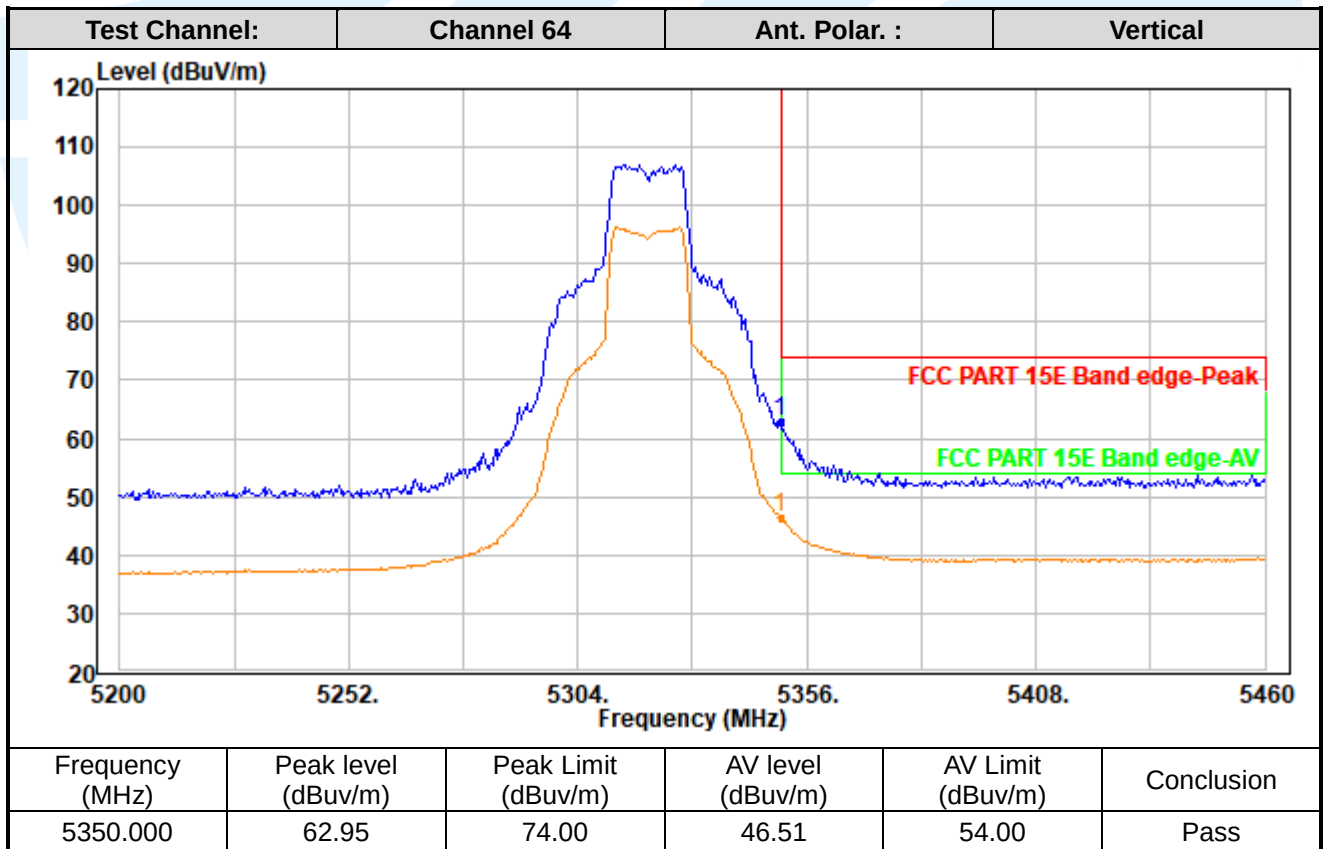
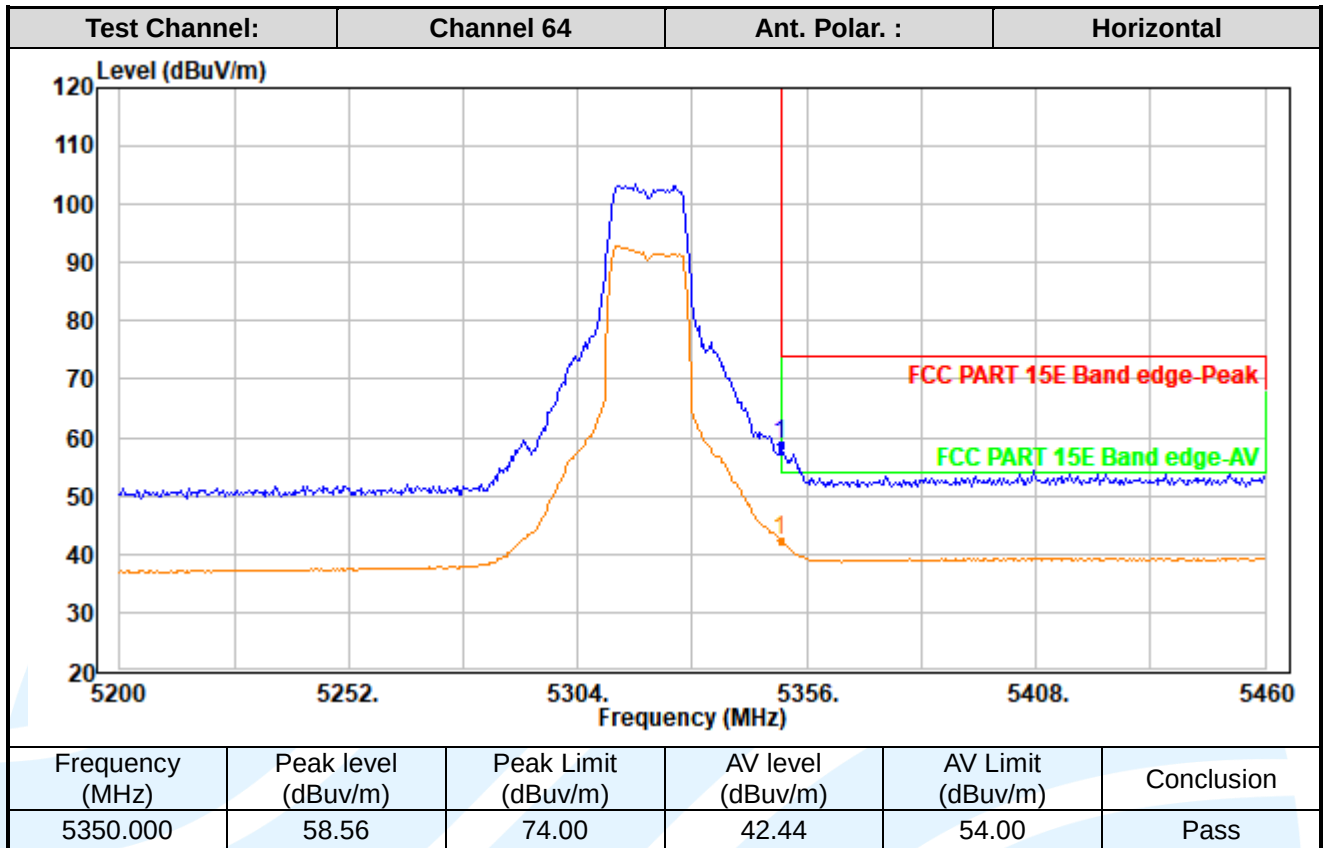
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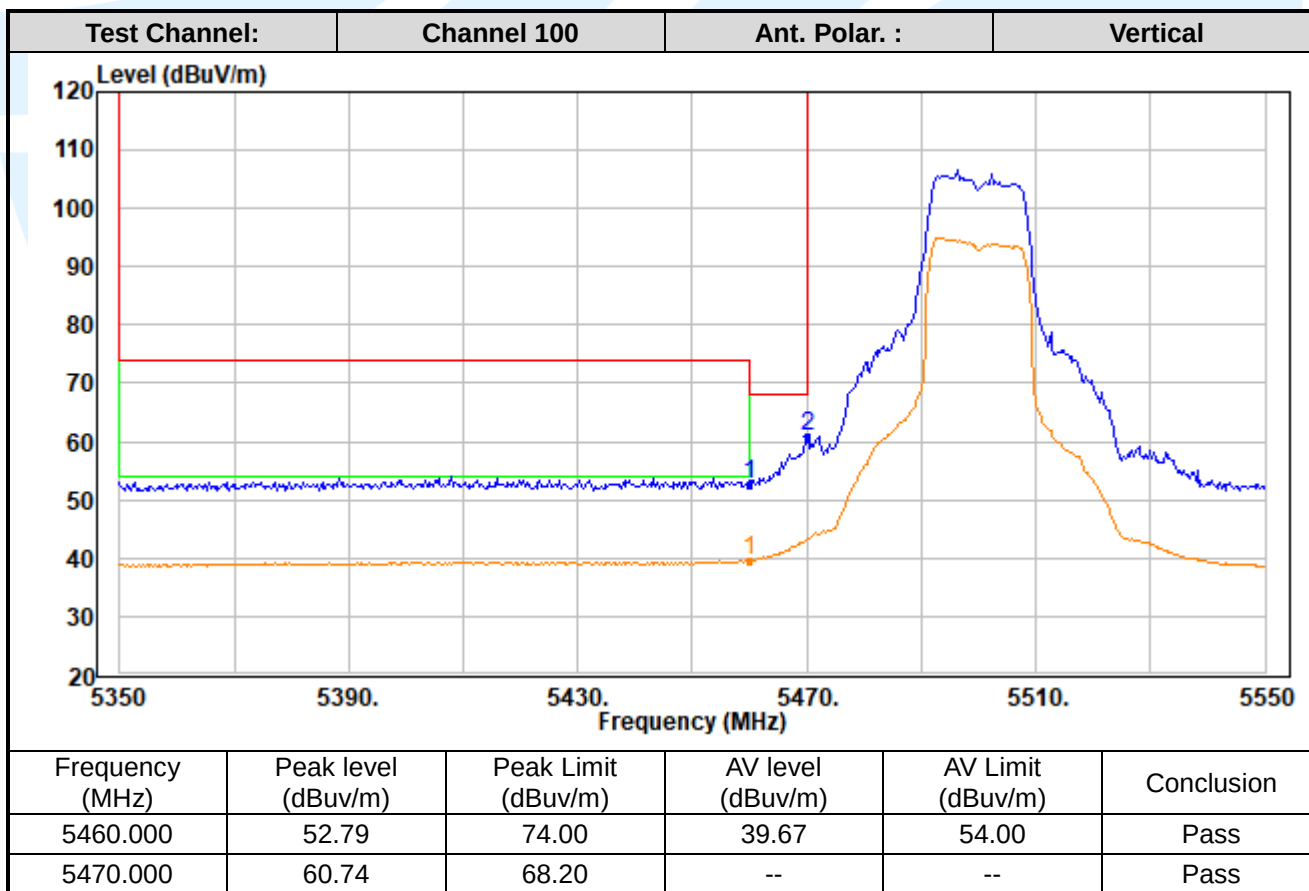
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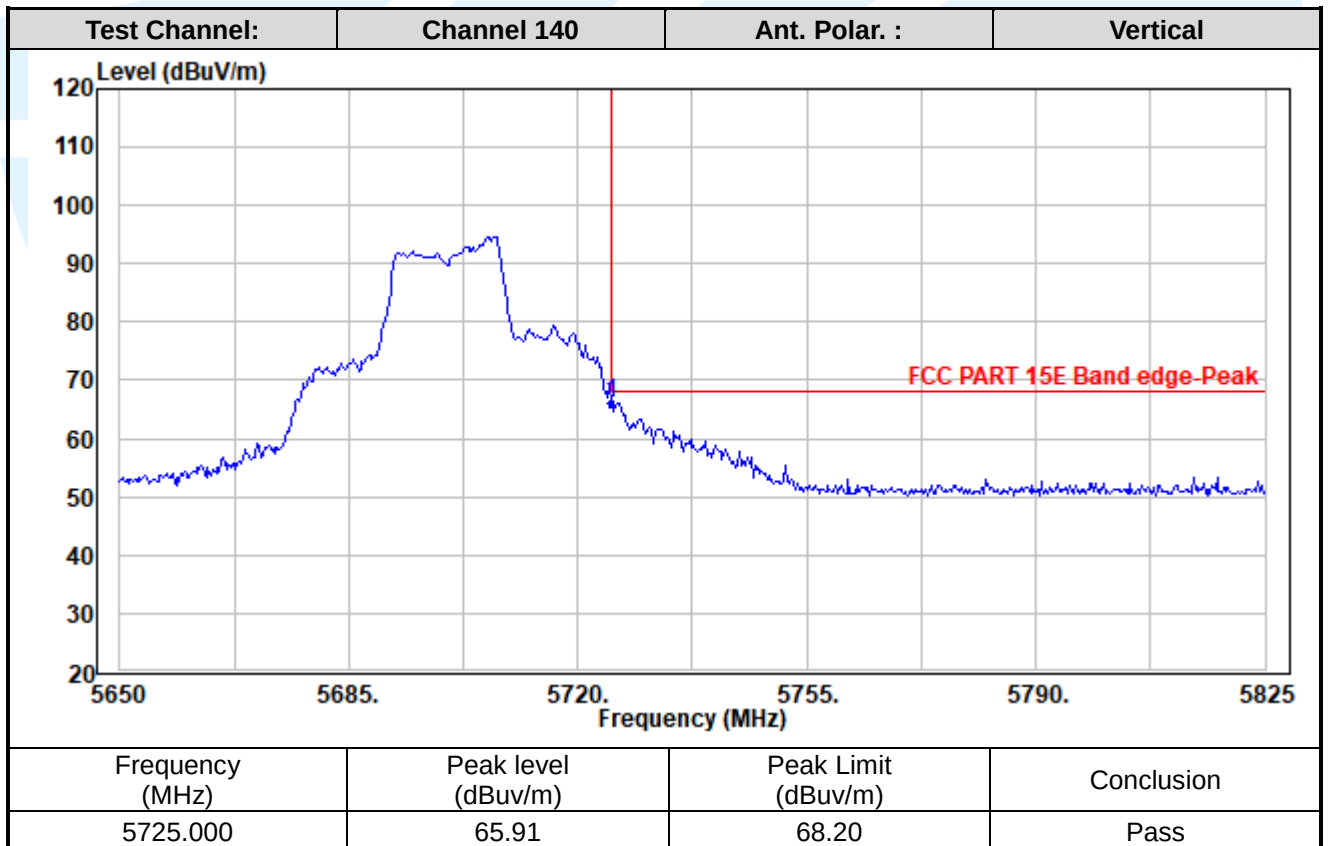
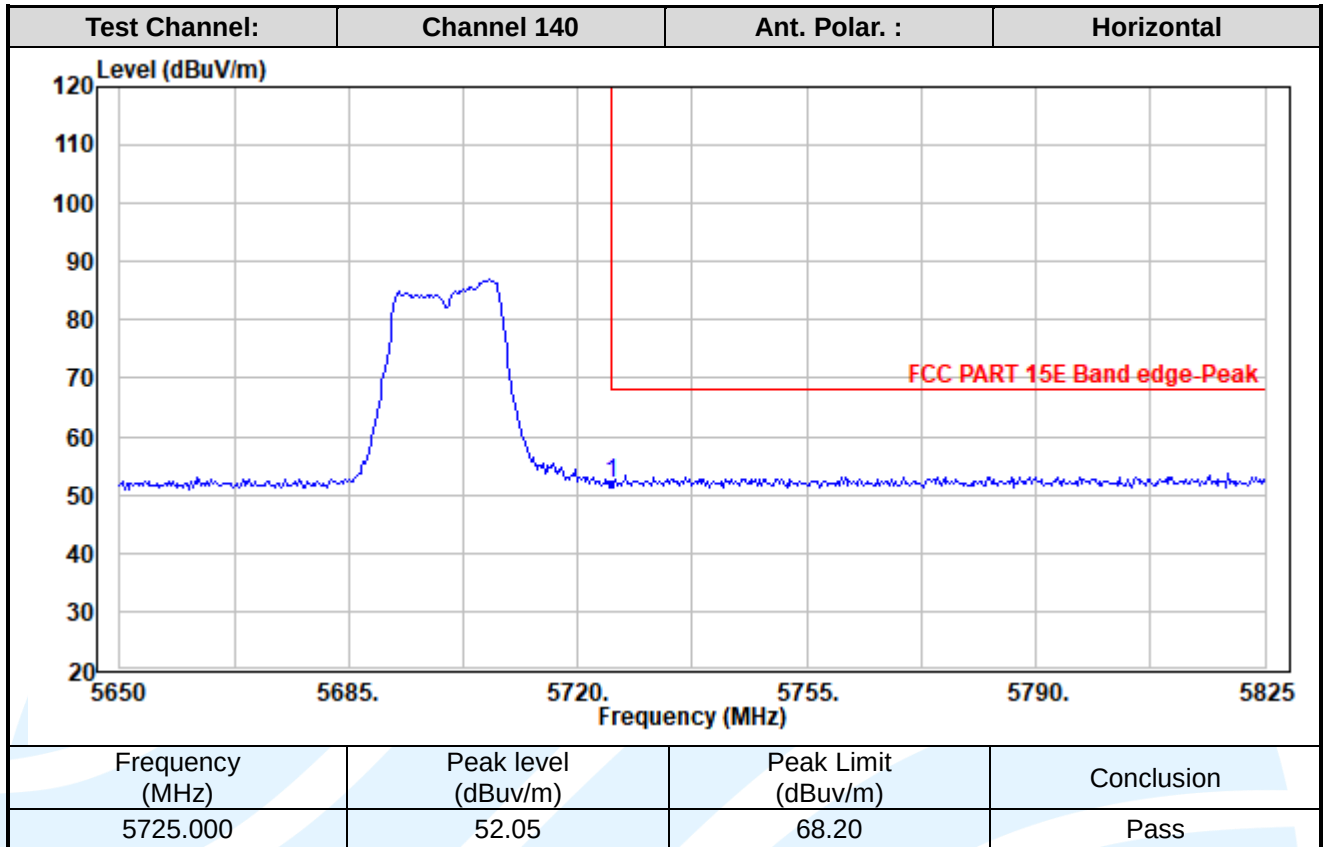
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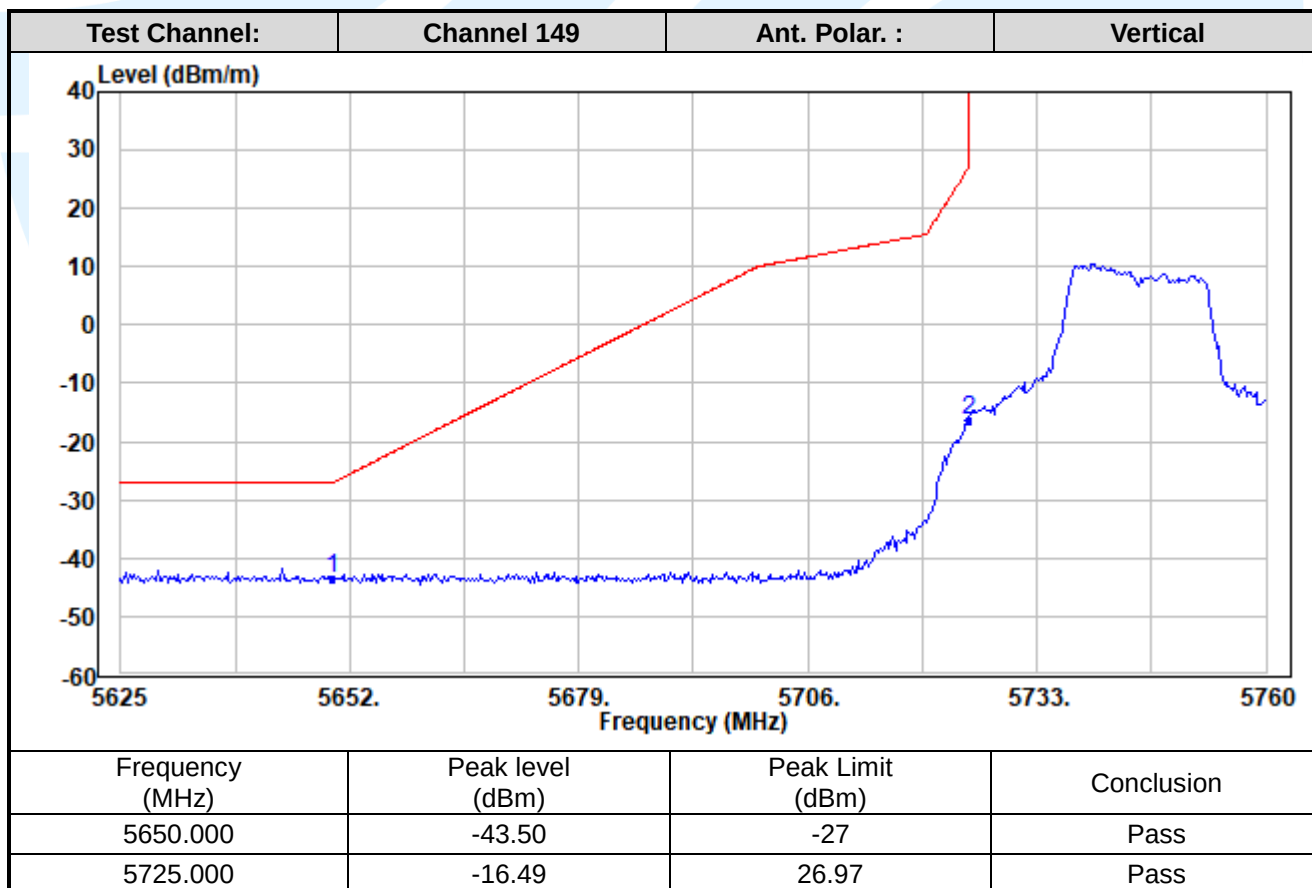
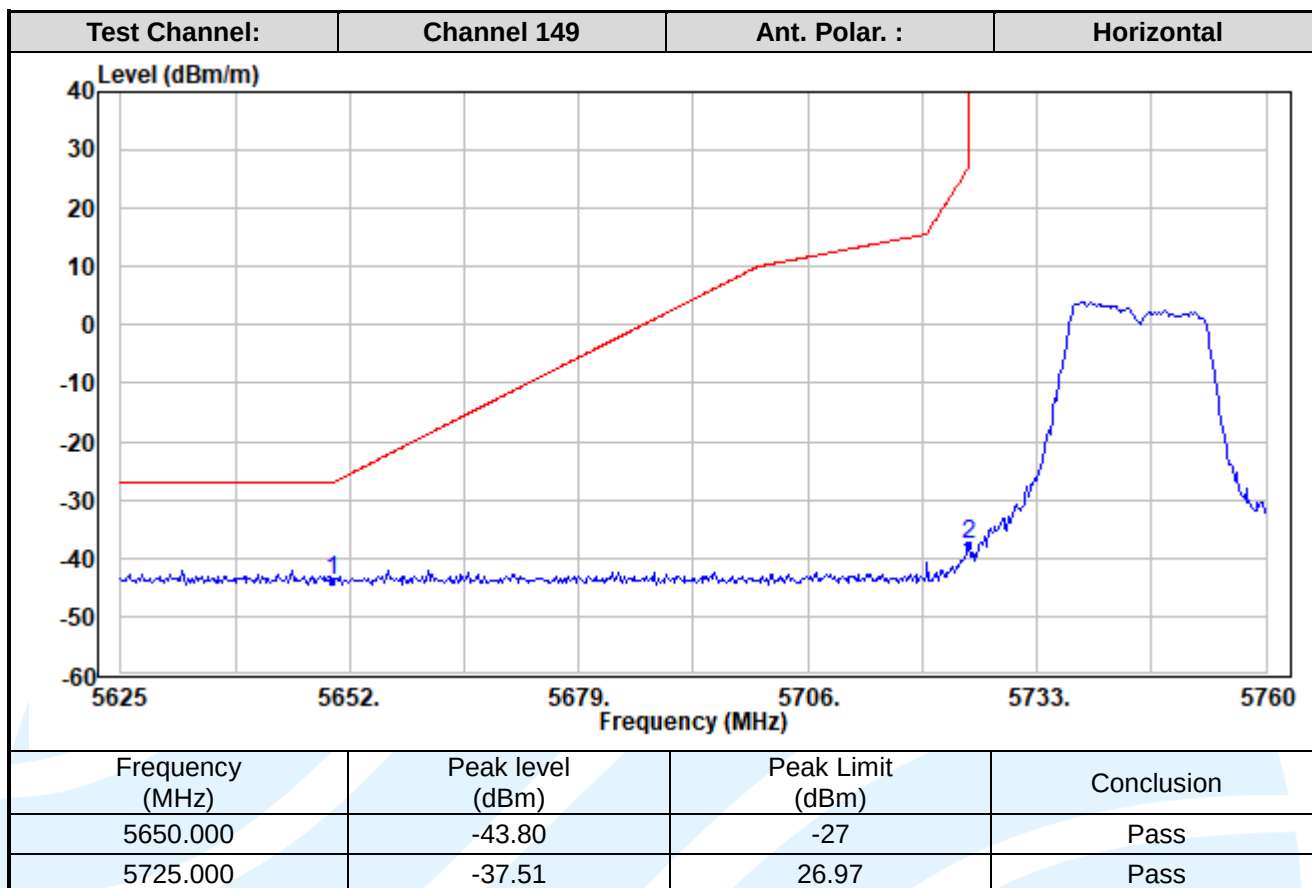
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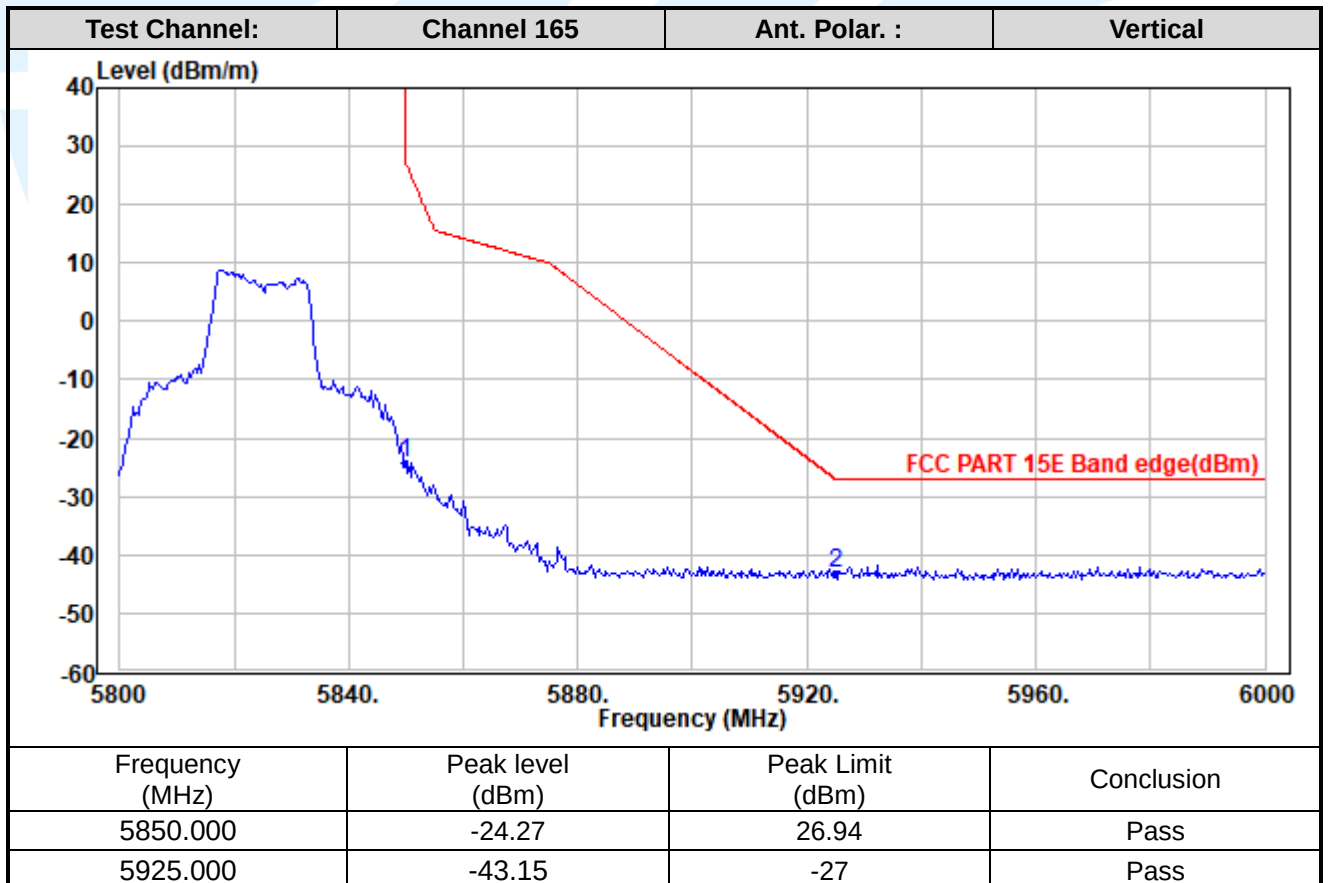
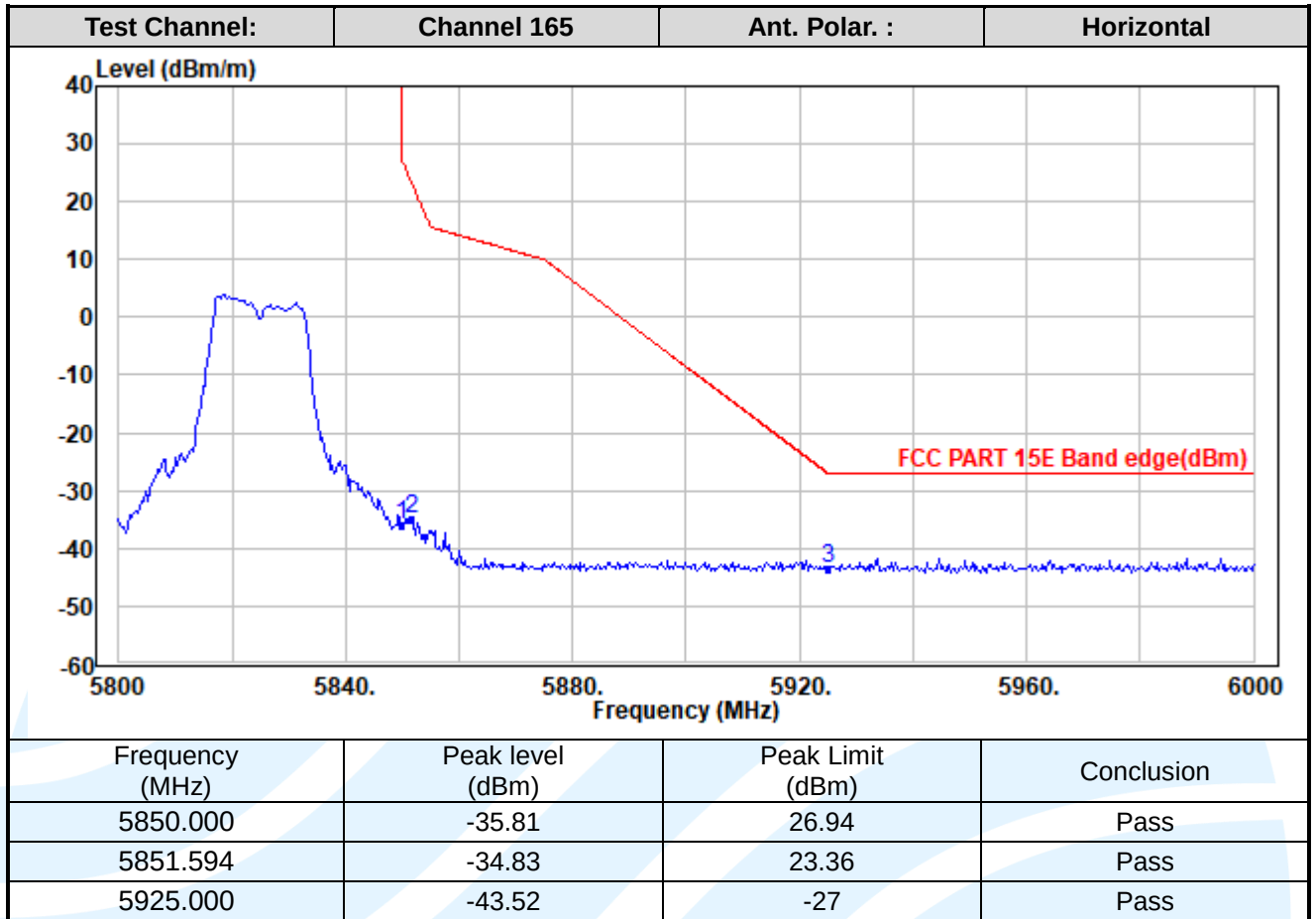
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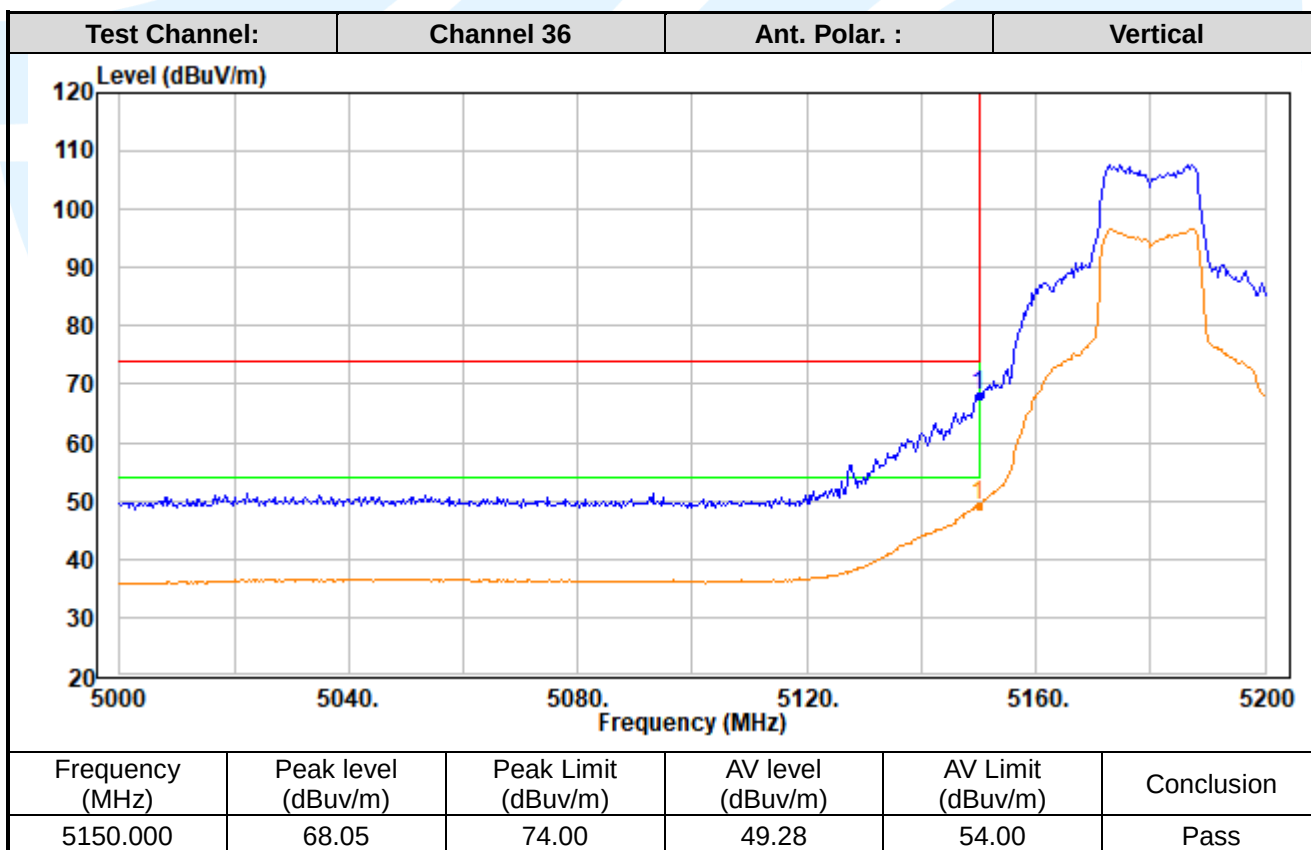
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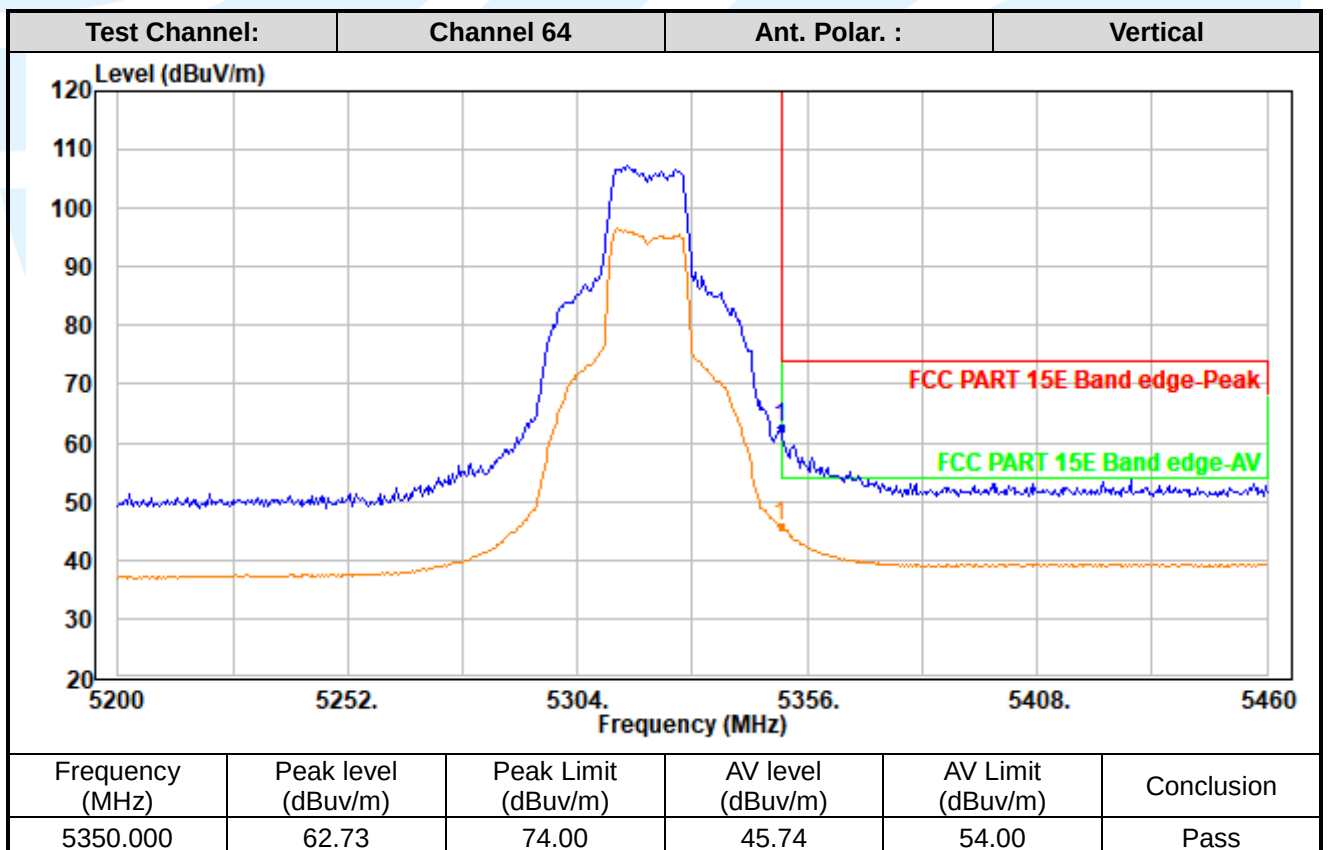
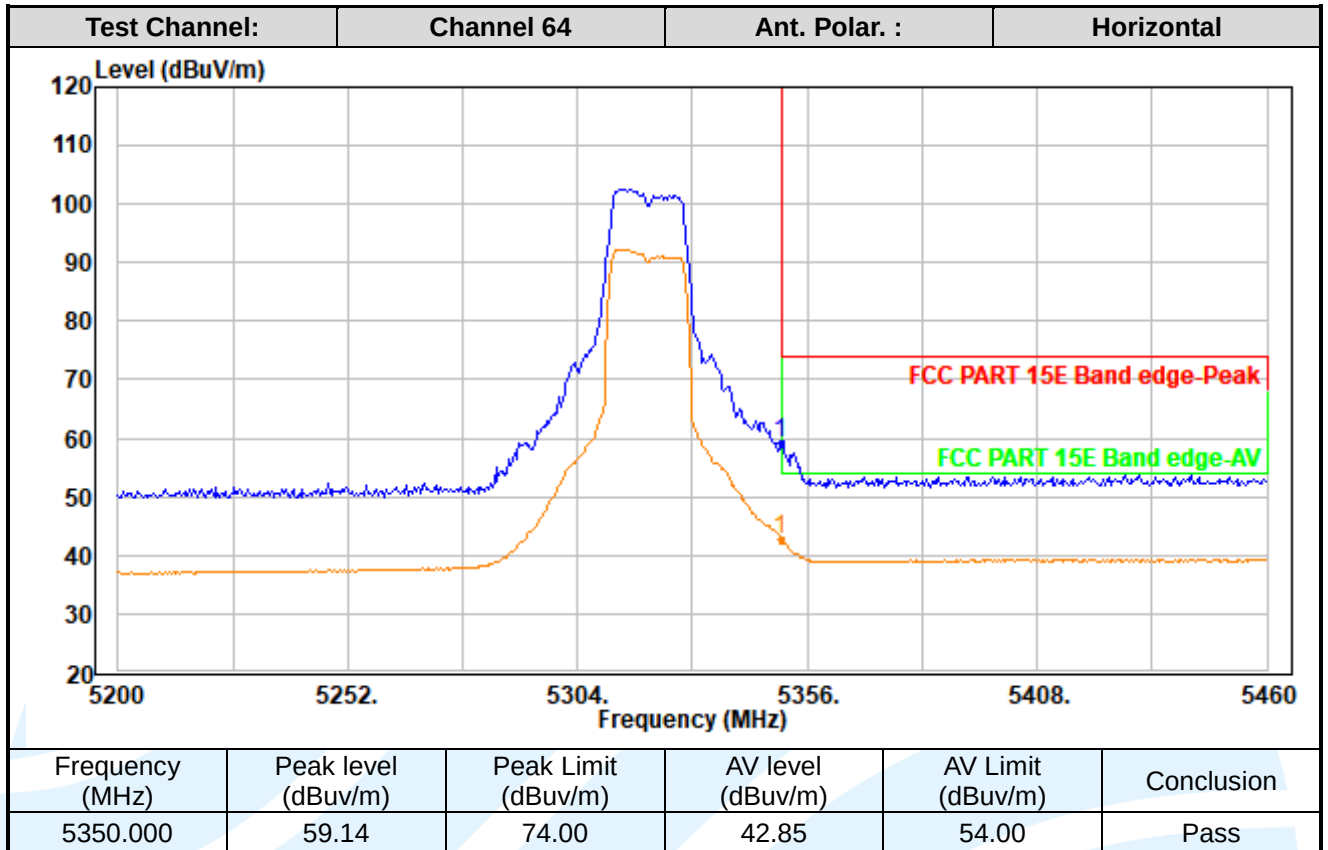
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Test Channel:	Channel 36	Ant. Polar. :	Horizontal		
Frequency (MHz)	Peak level (dBuV/m)	Peak Limit (dBuV/m)	AV level (dBuV/m)	AV Limit (dBuV/m)	Conclusion
5150.000	59.44	74.00	42.80	54.00	Pass





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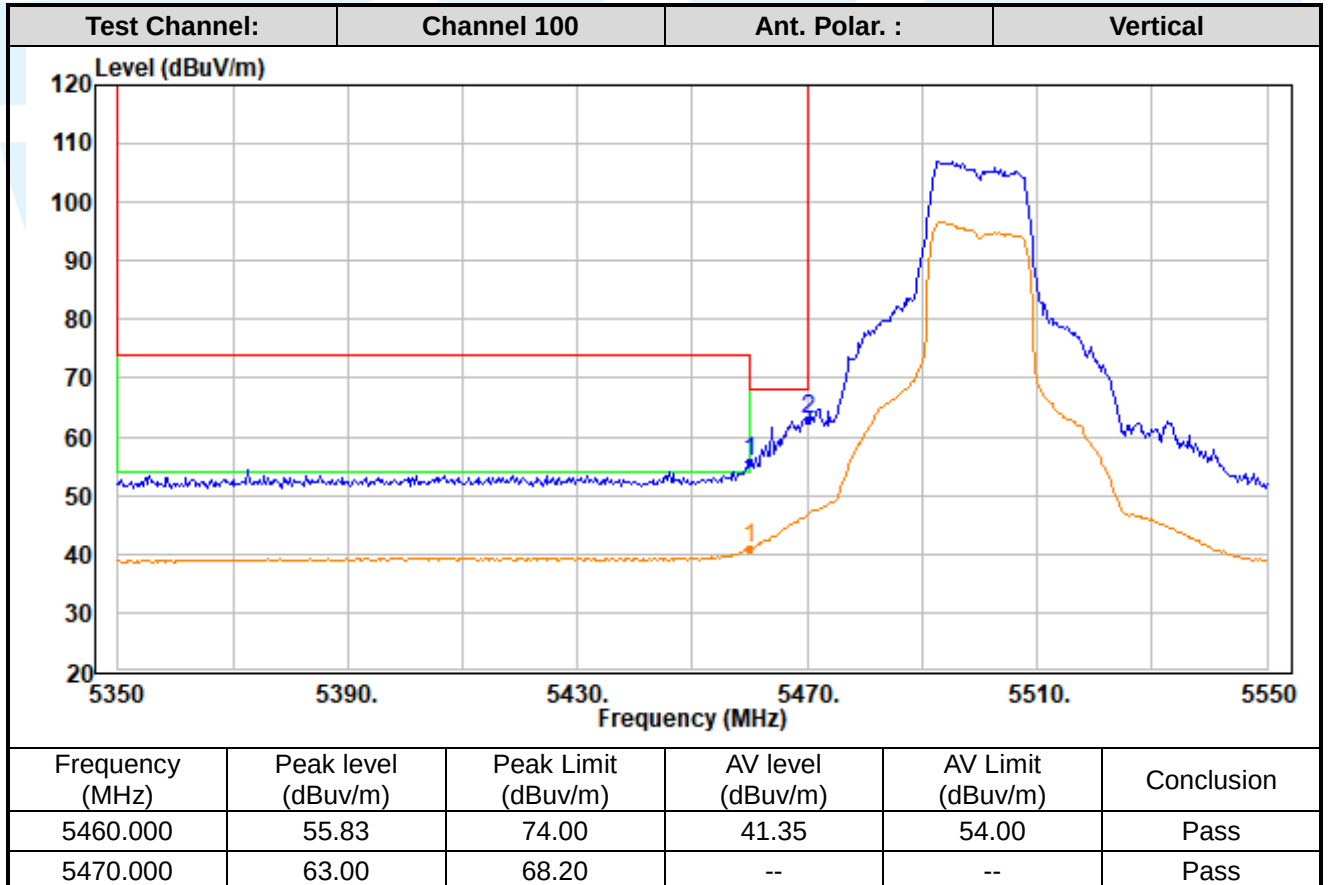
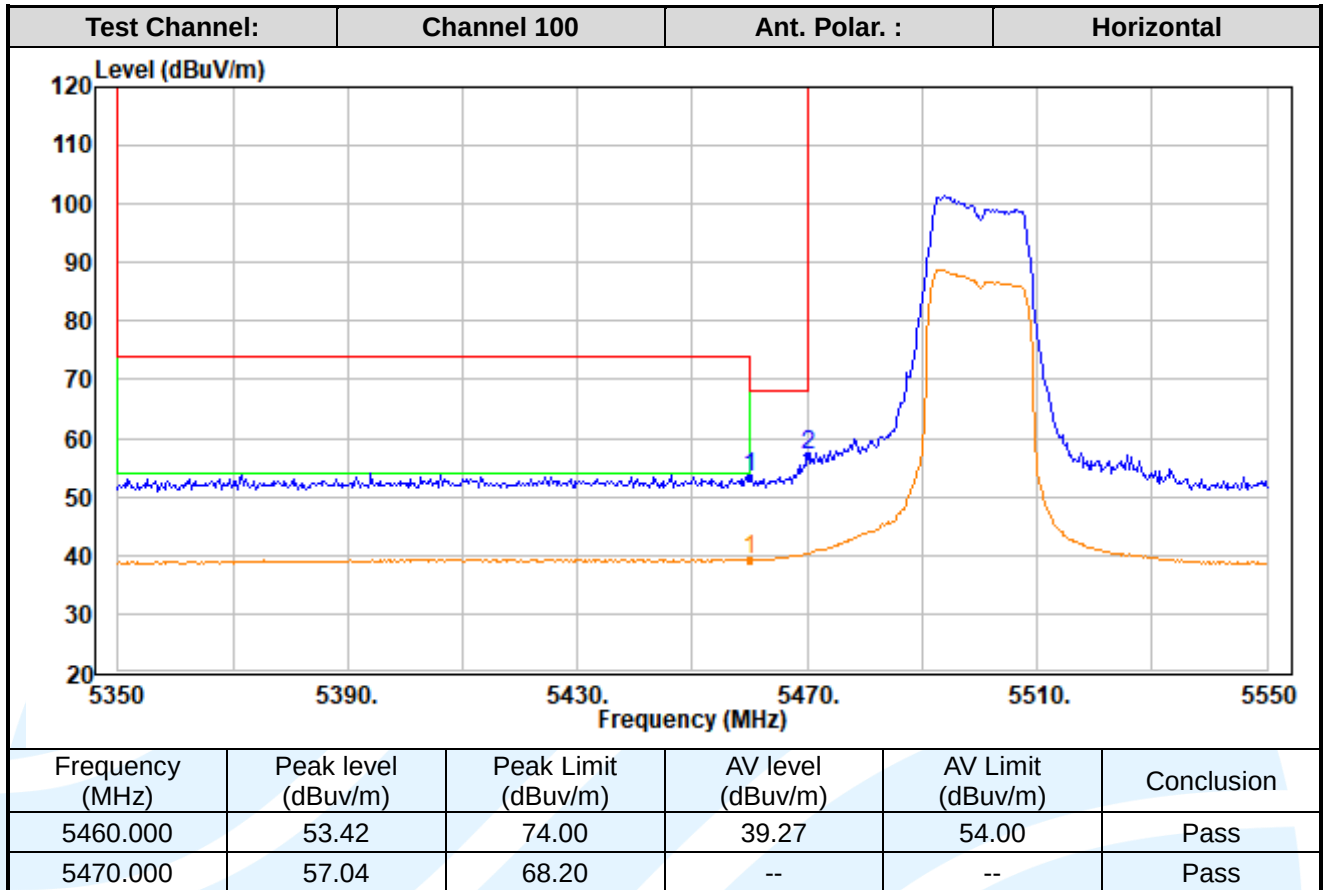
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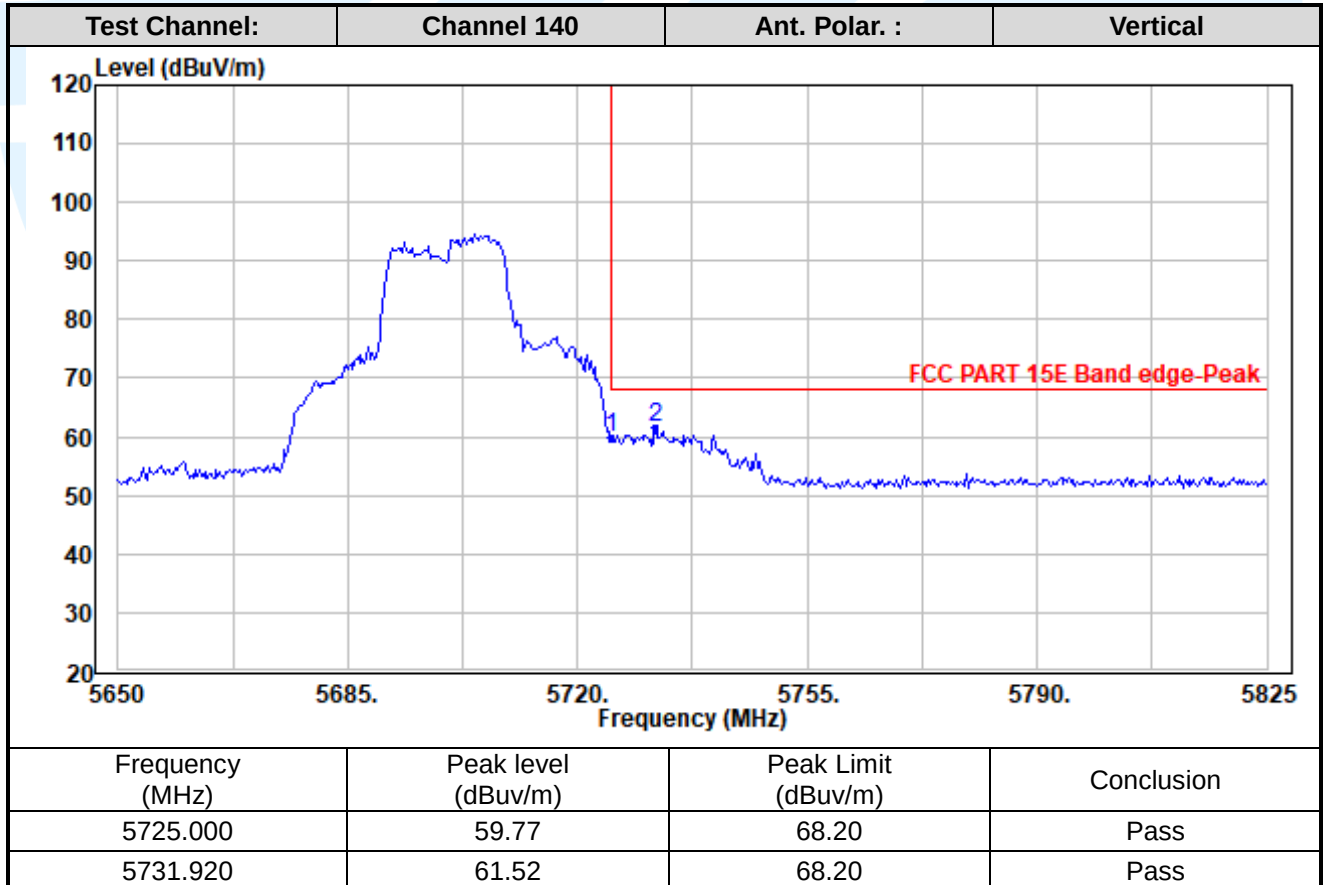
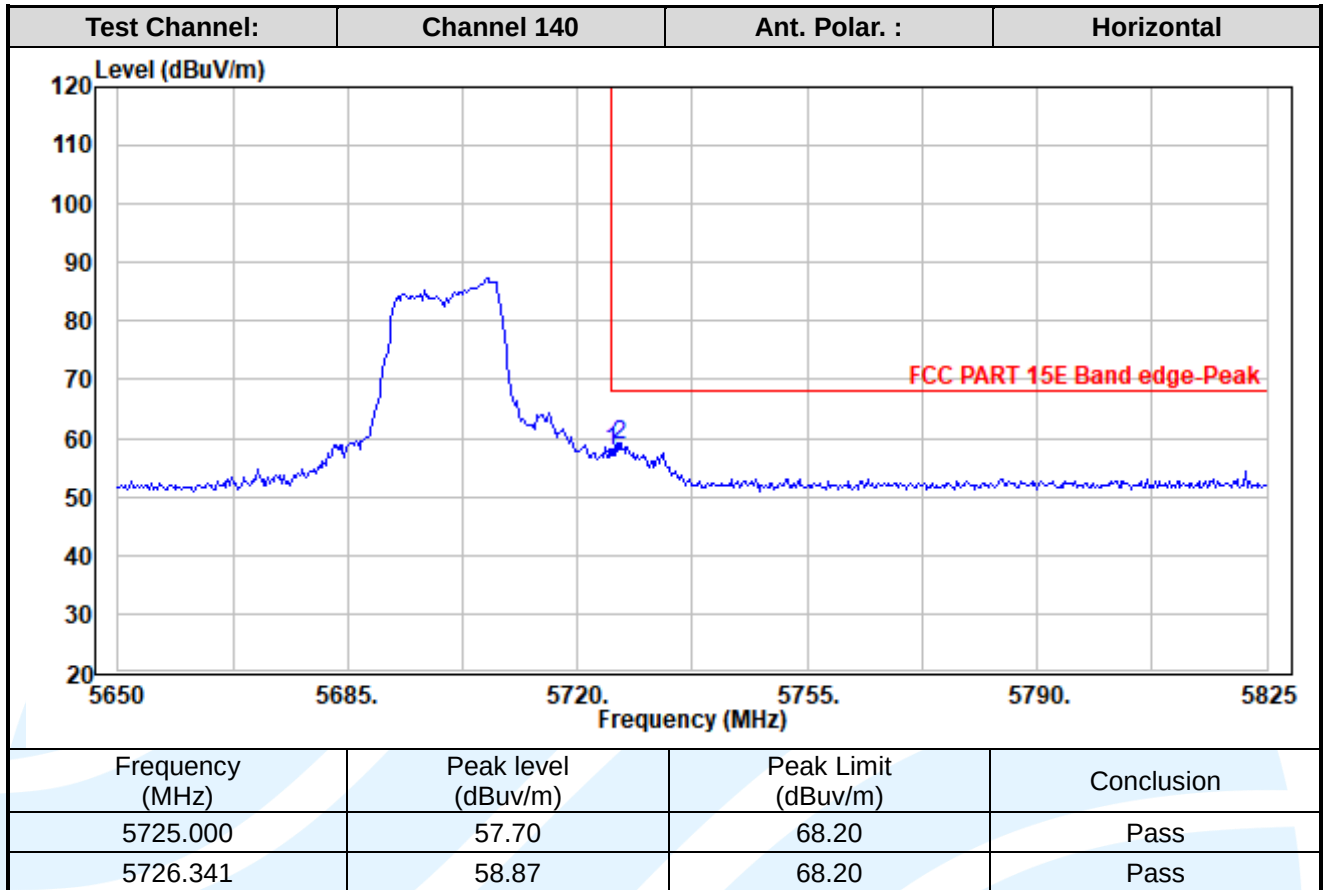
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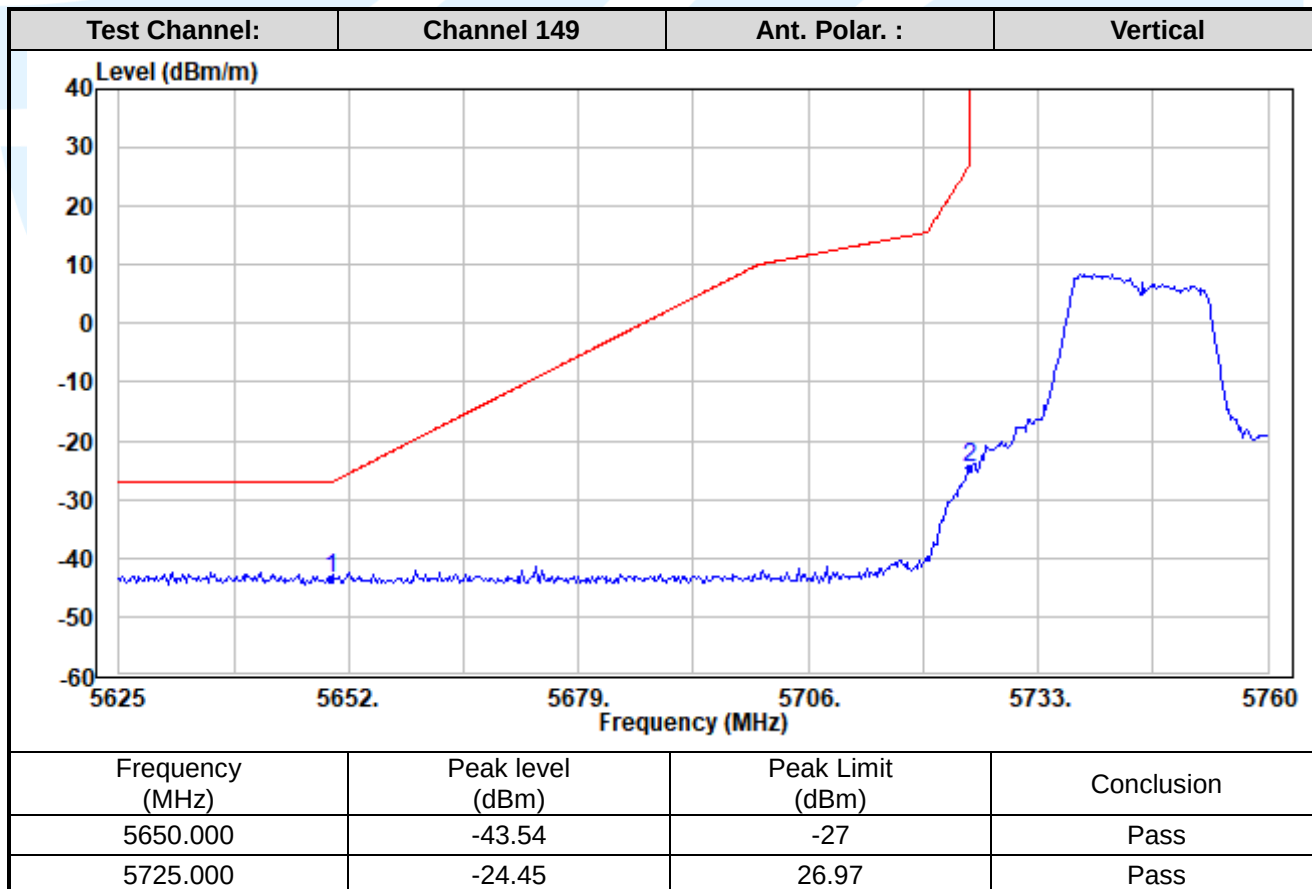
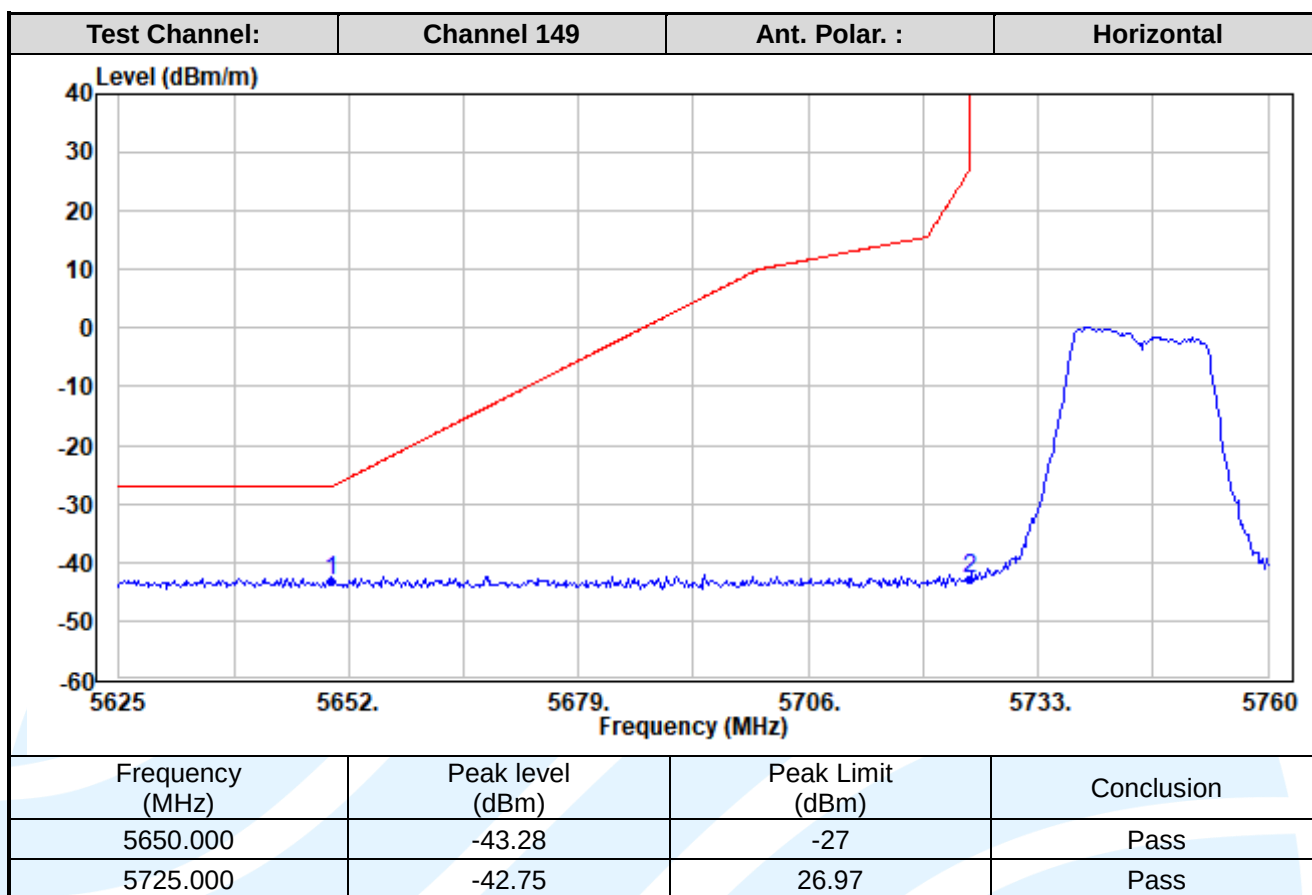
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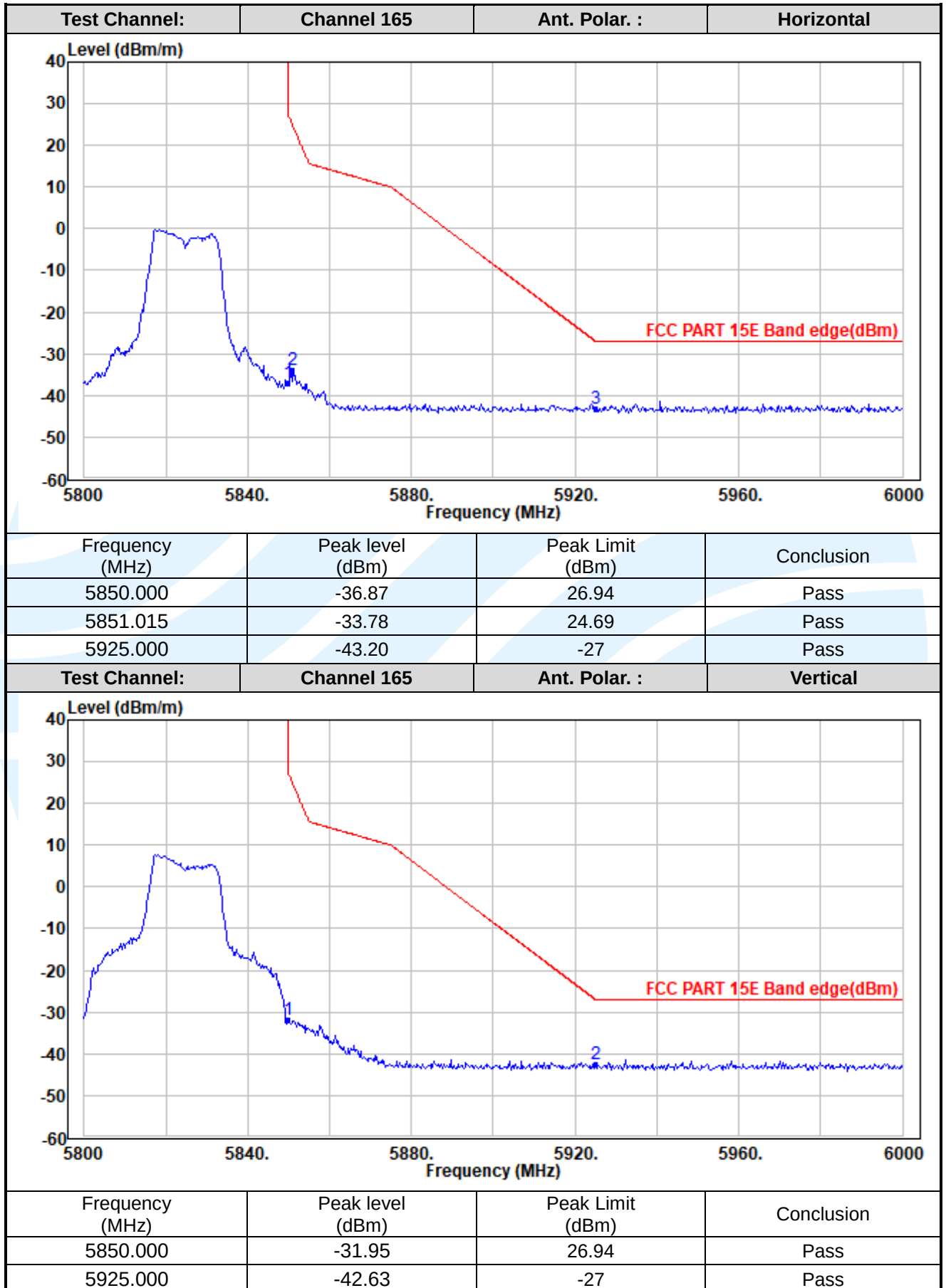
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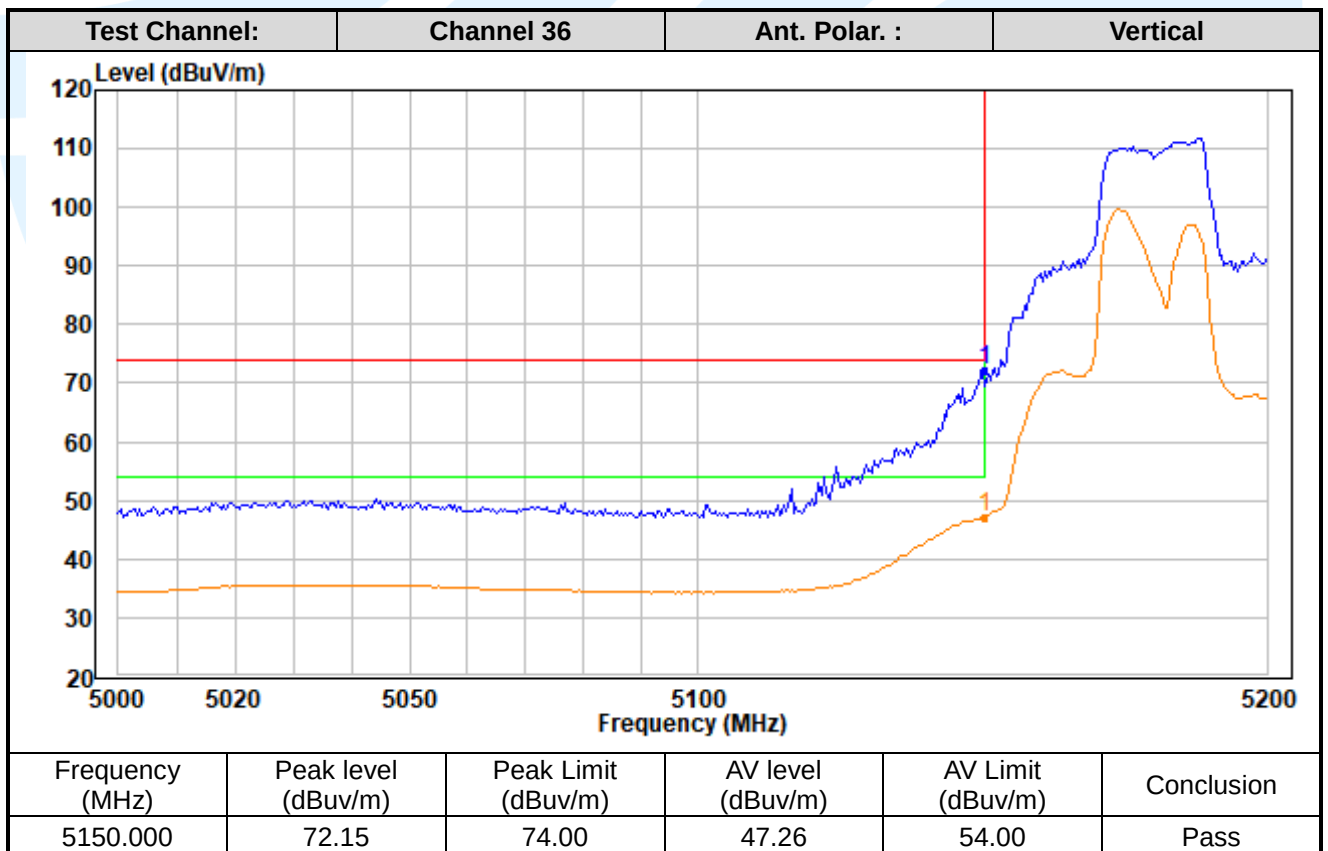
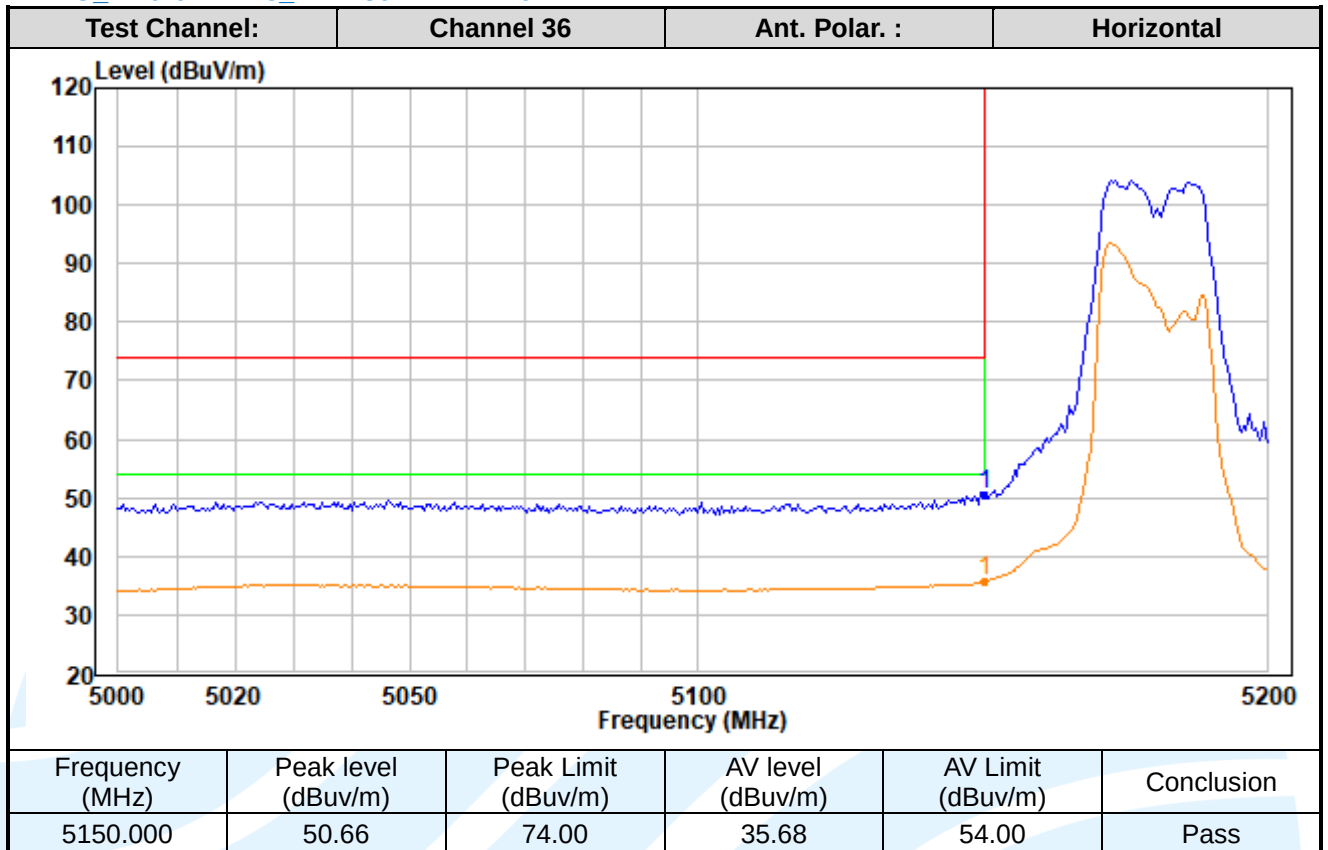
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MIMO_Ant. 0+1+2+3_ IEEE 802.11n-HT20



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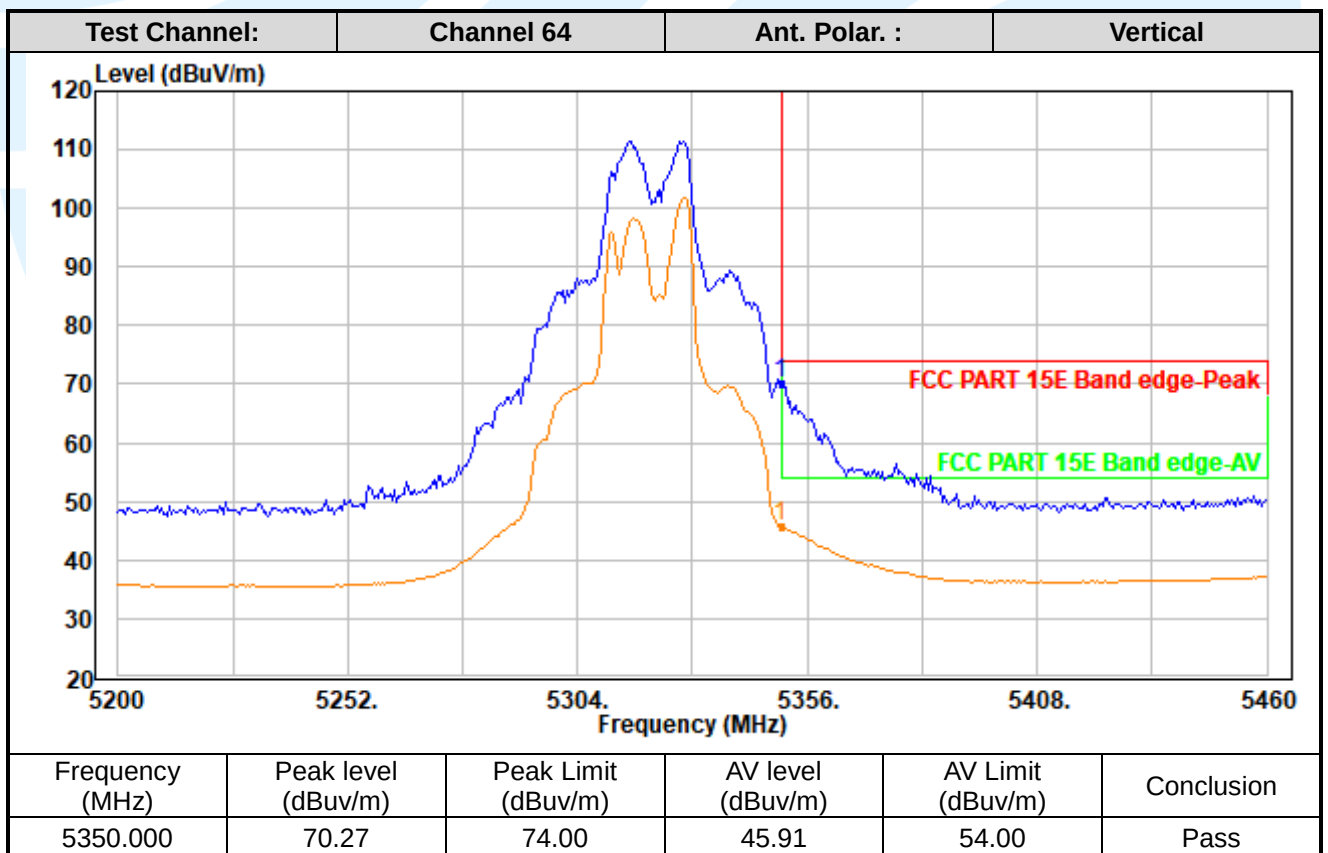
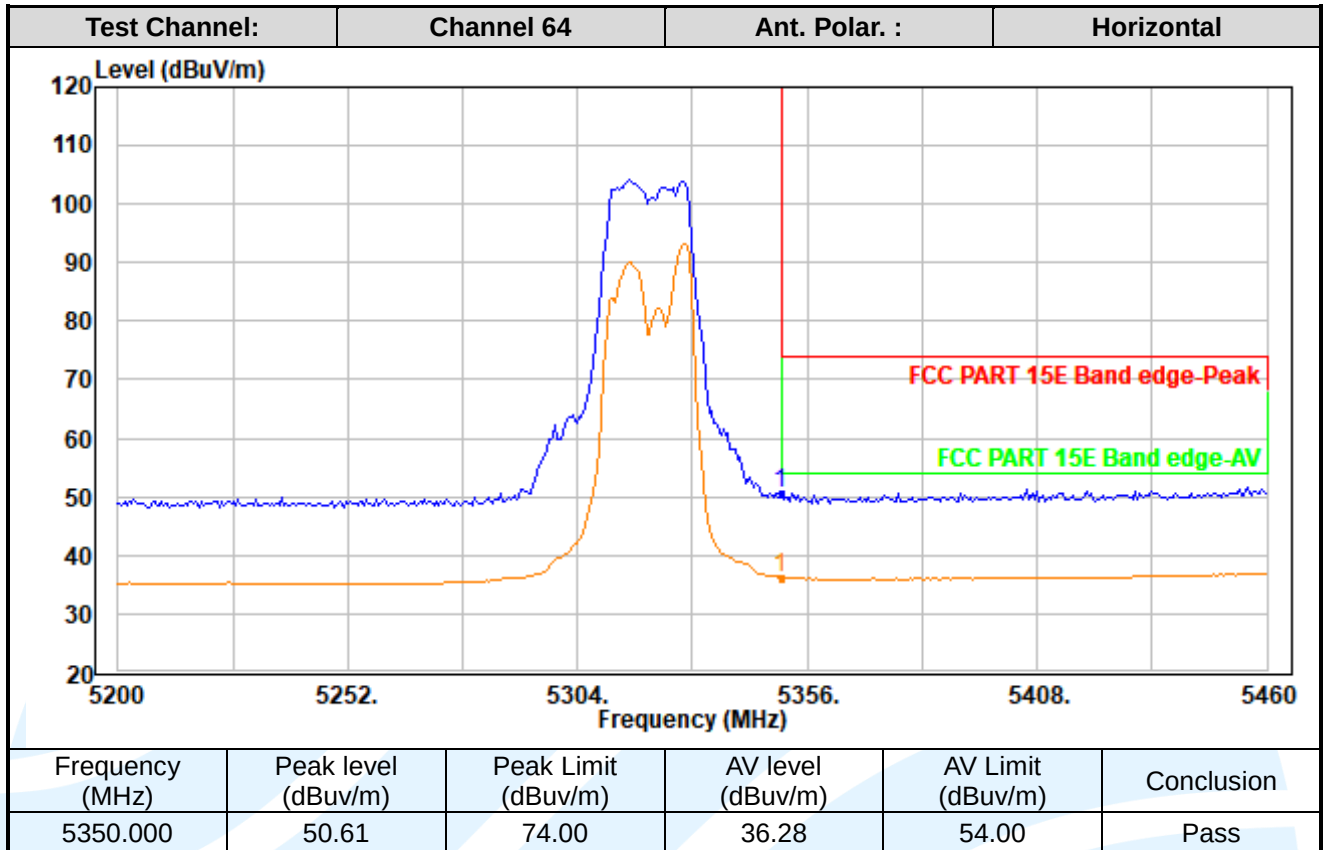
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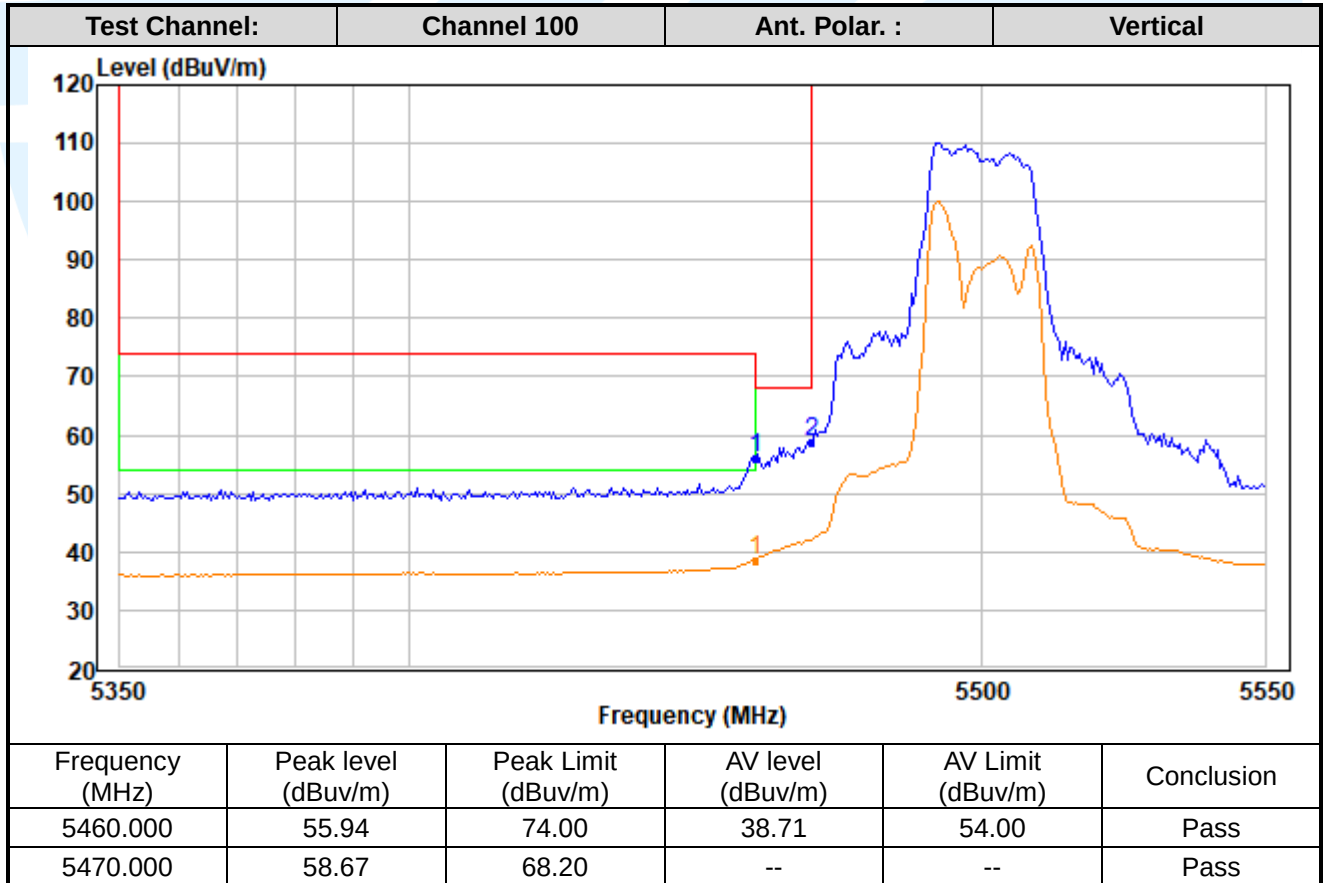
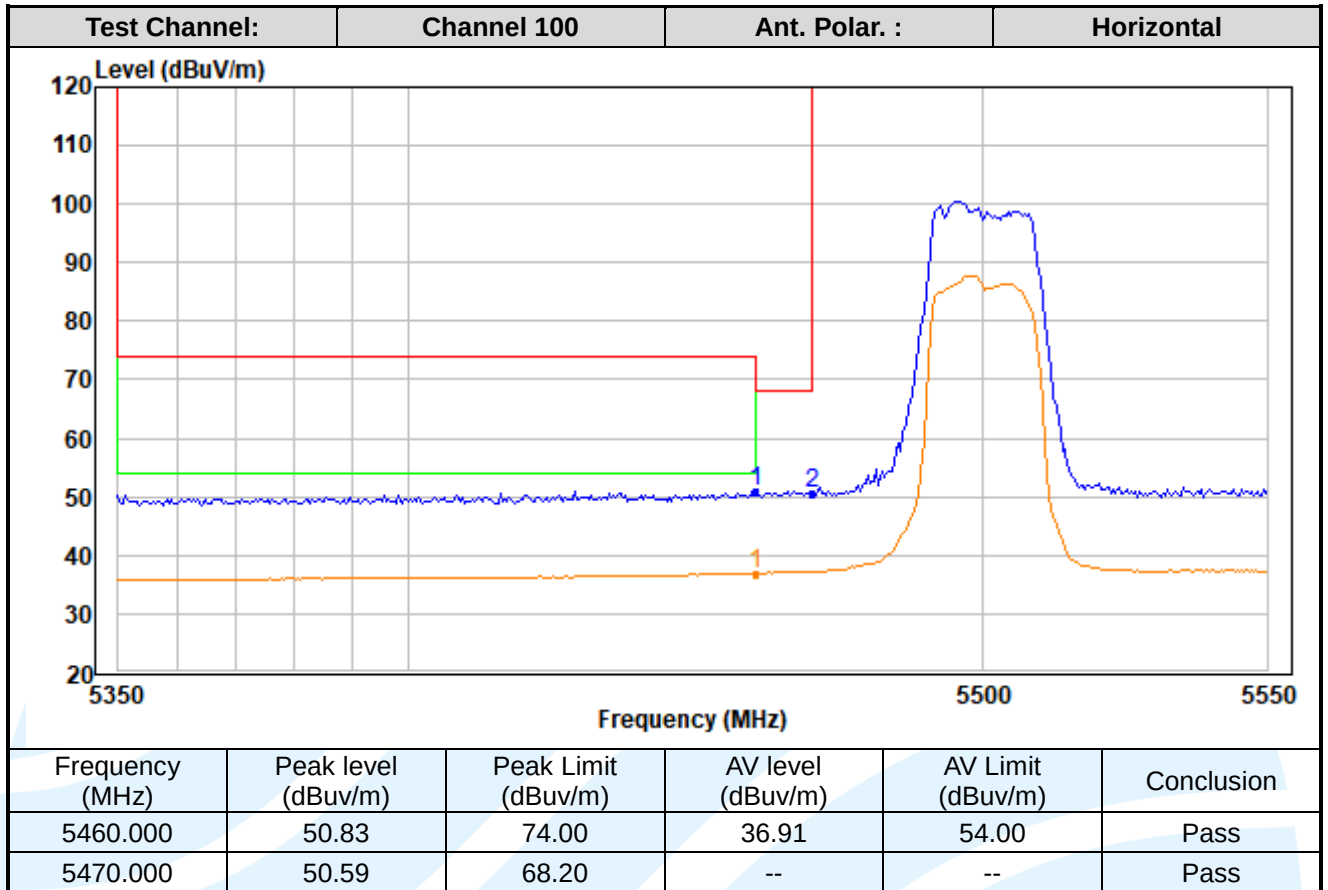
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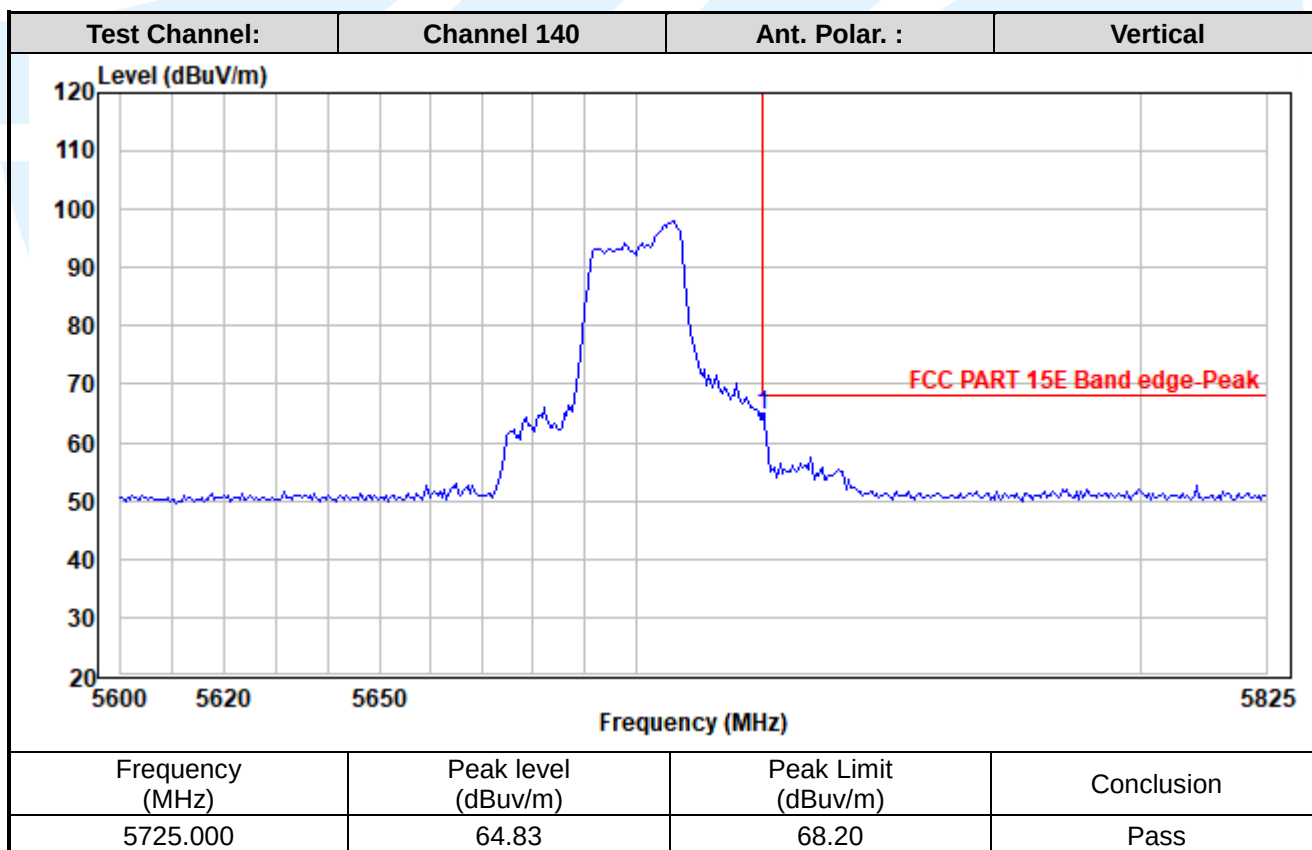
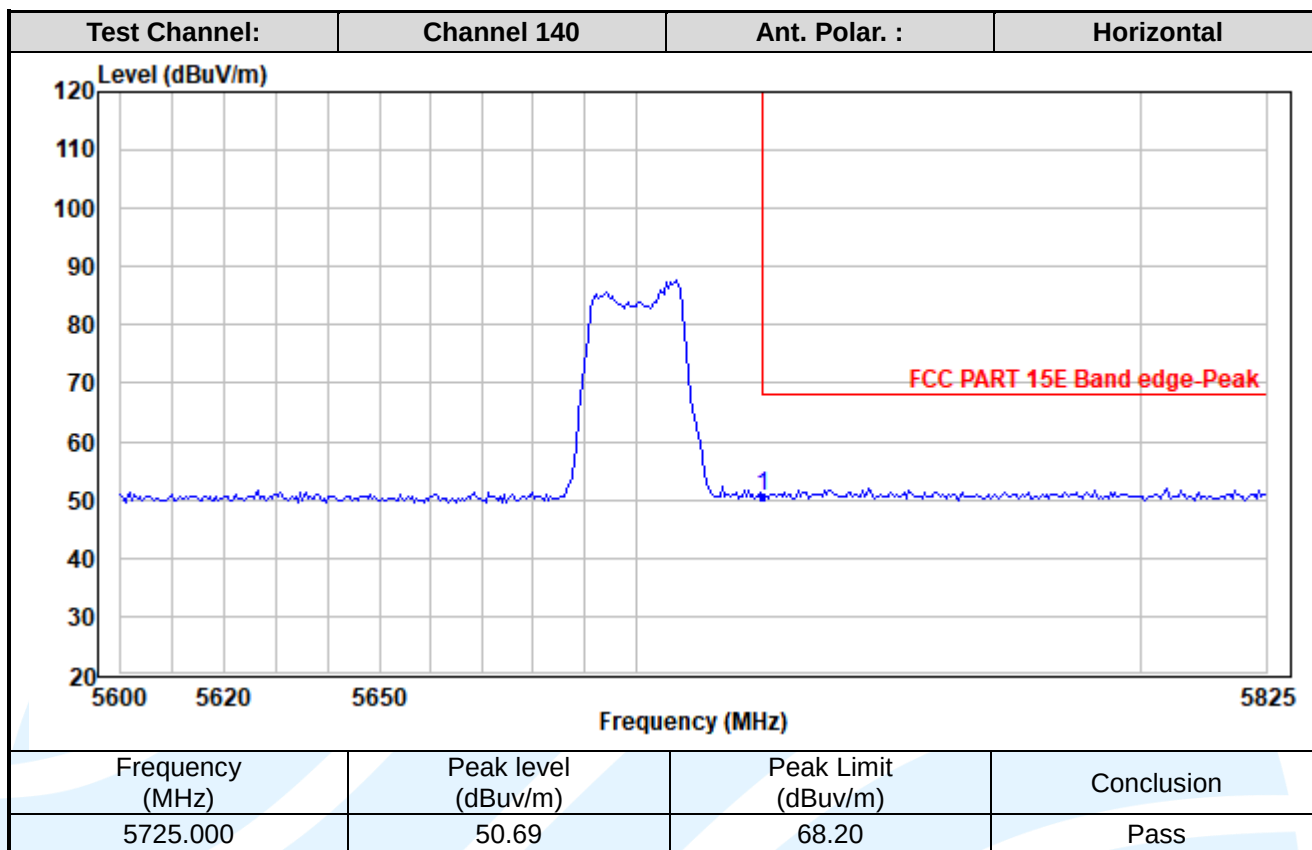
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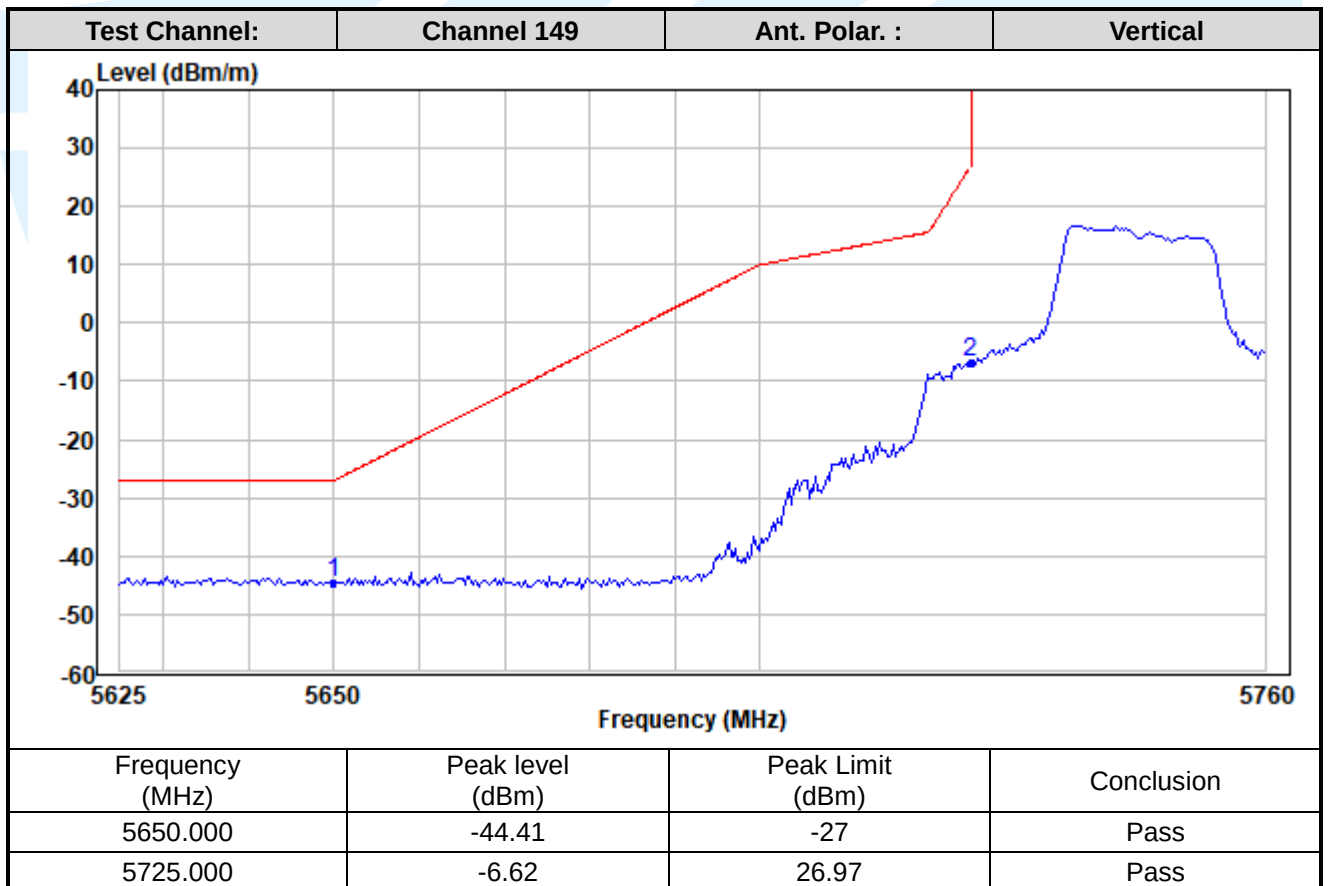
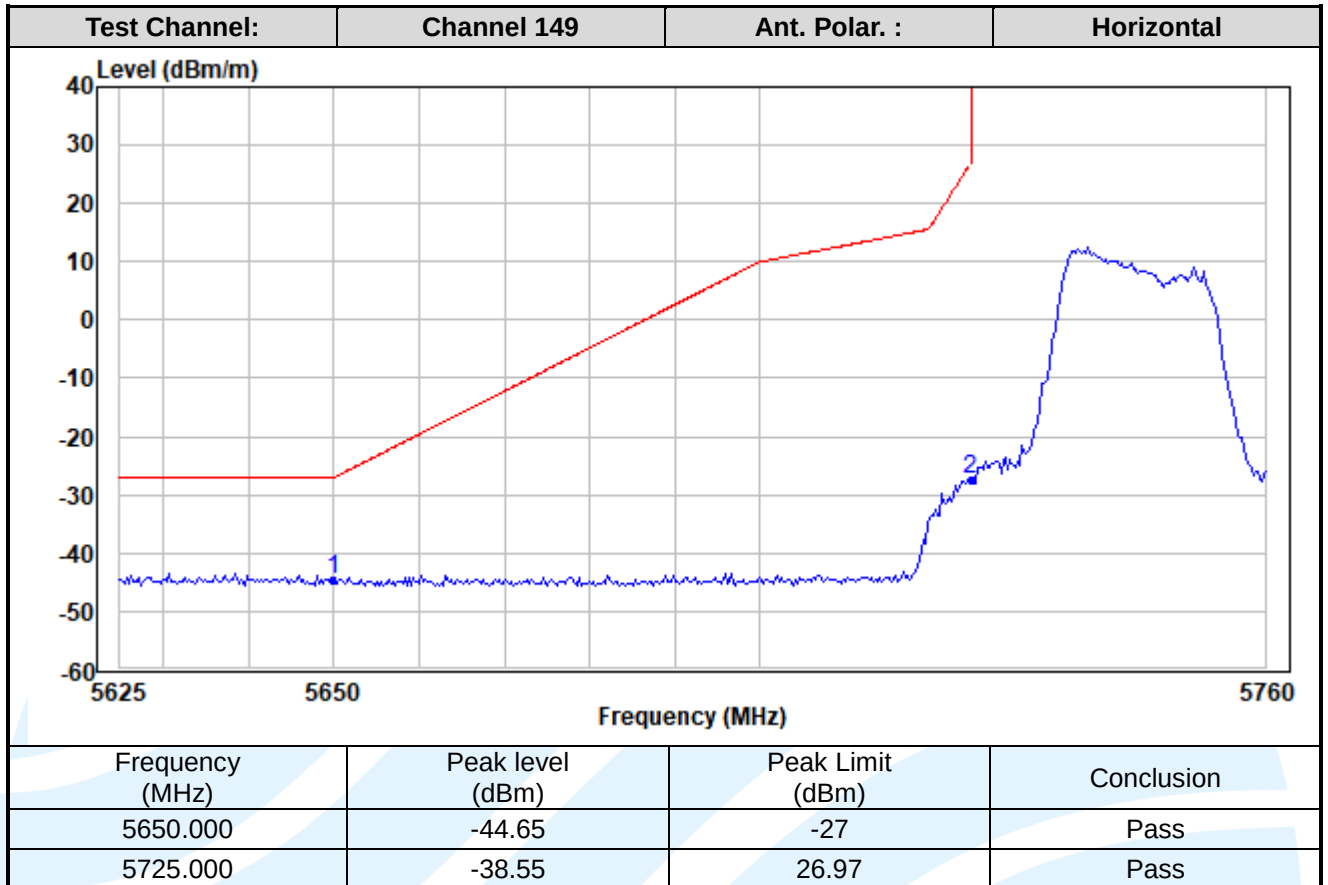
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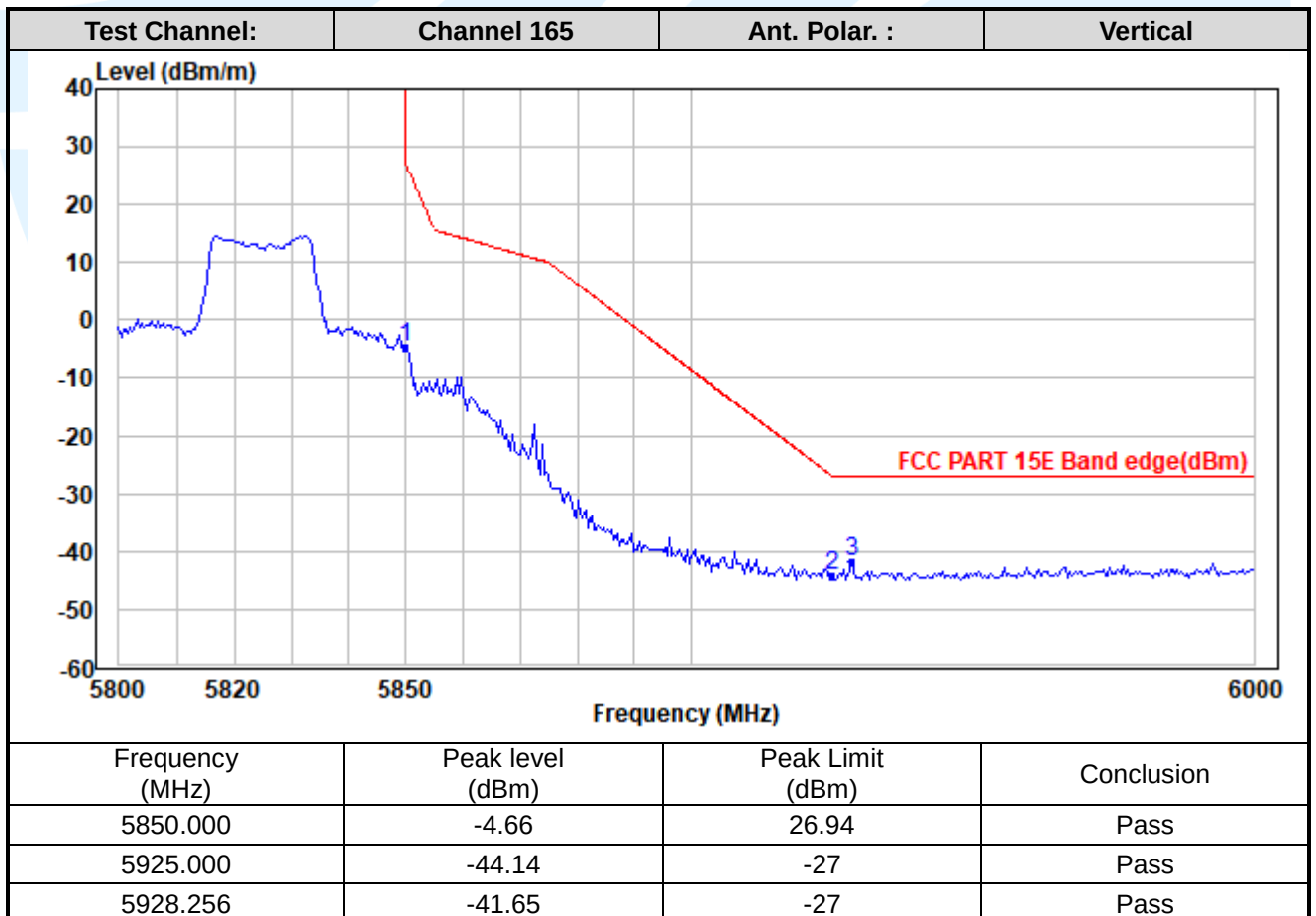
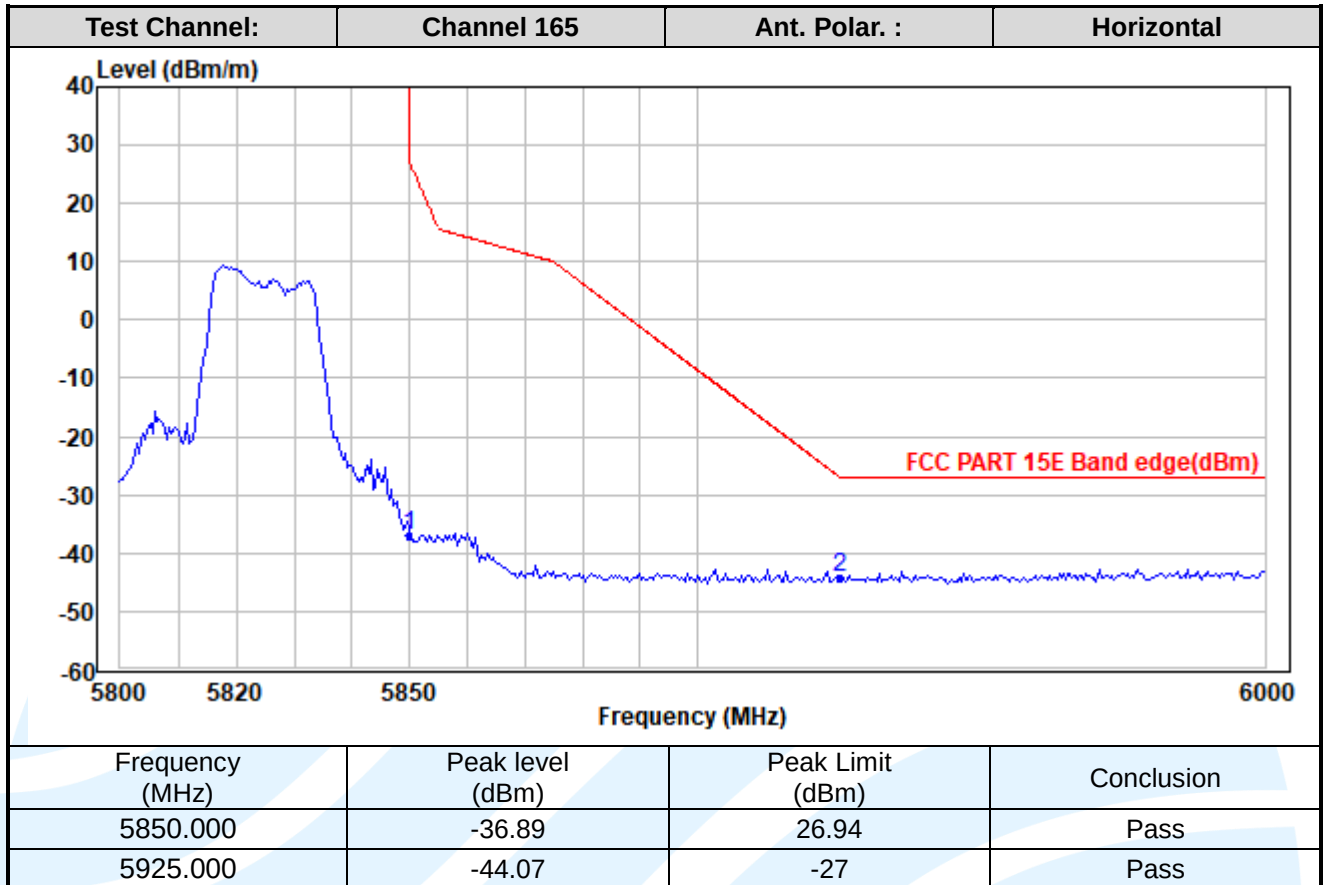
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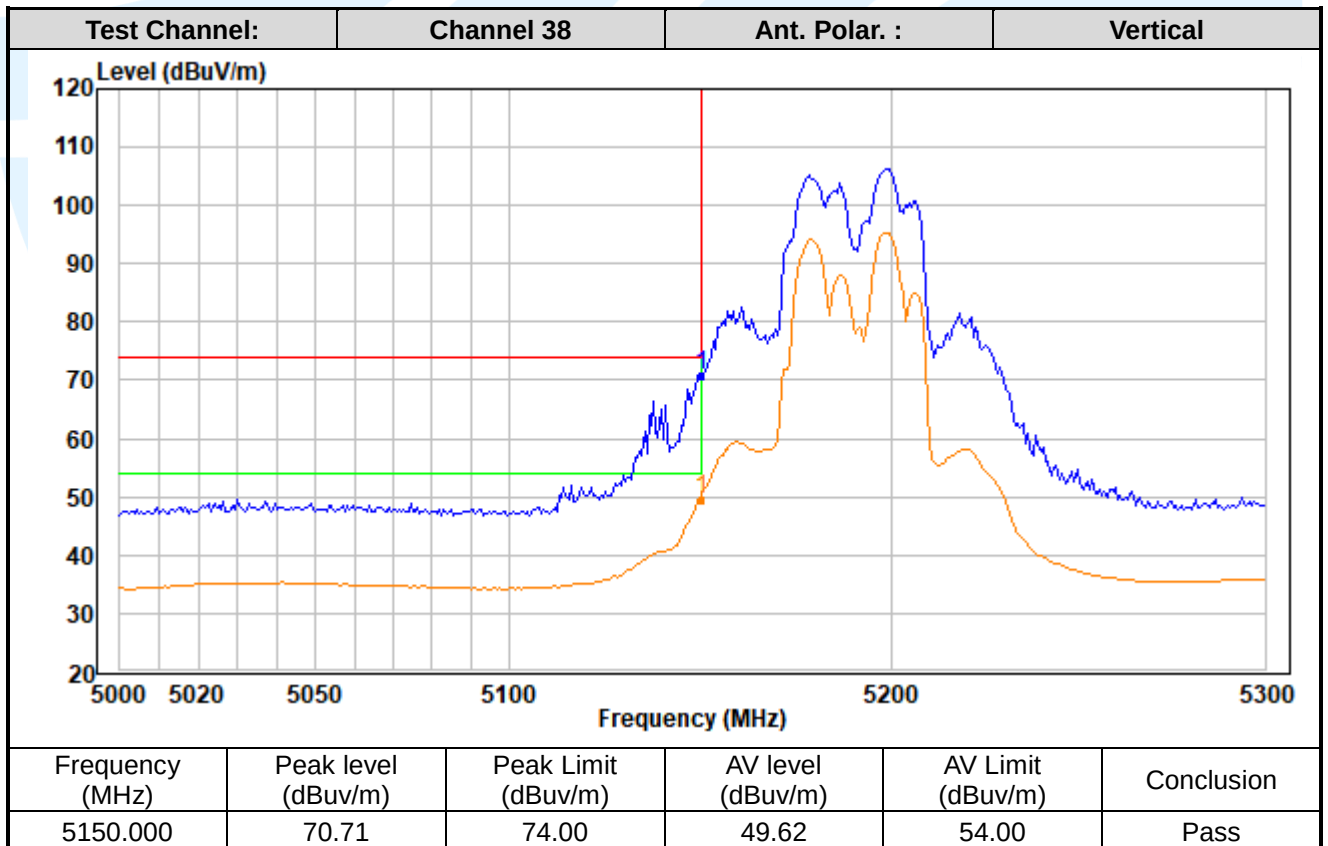
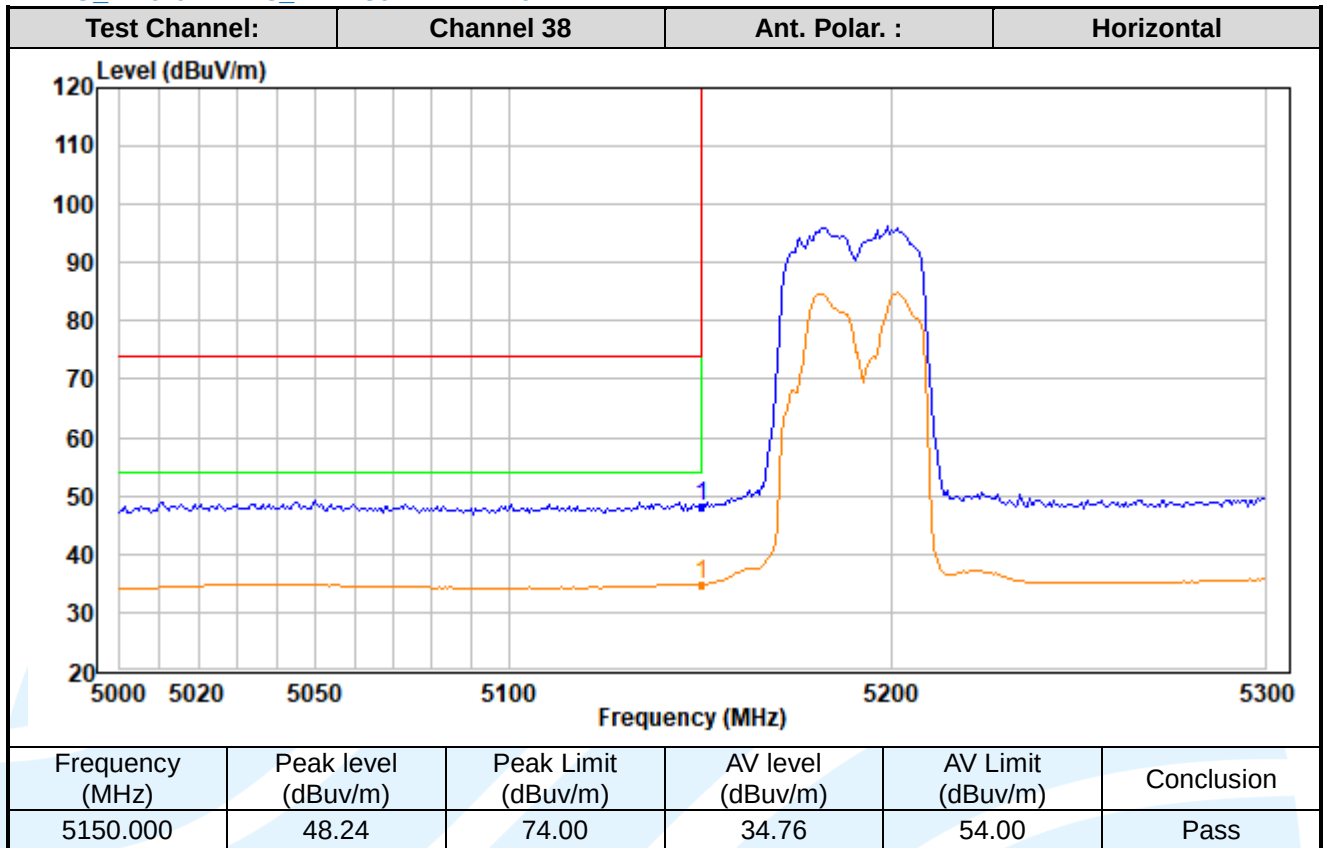
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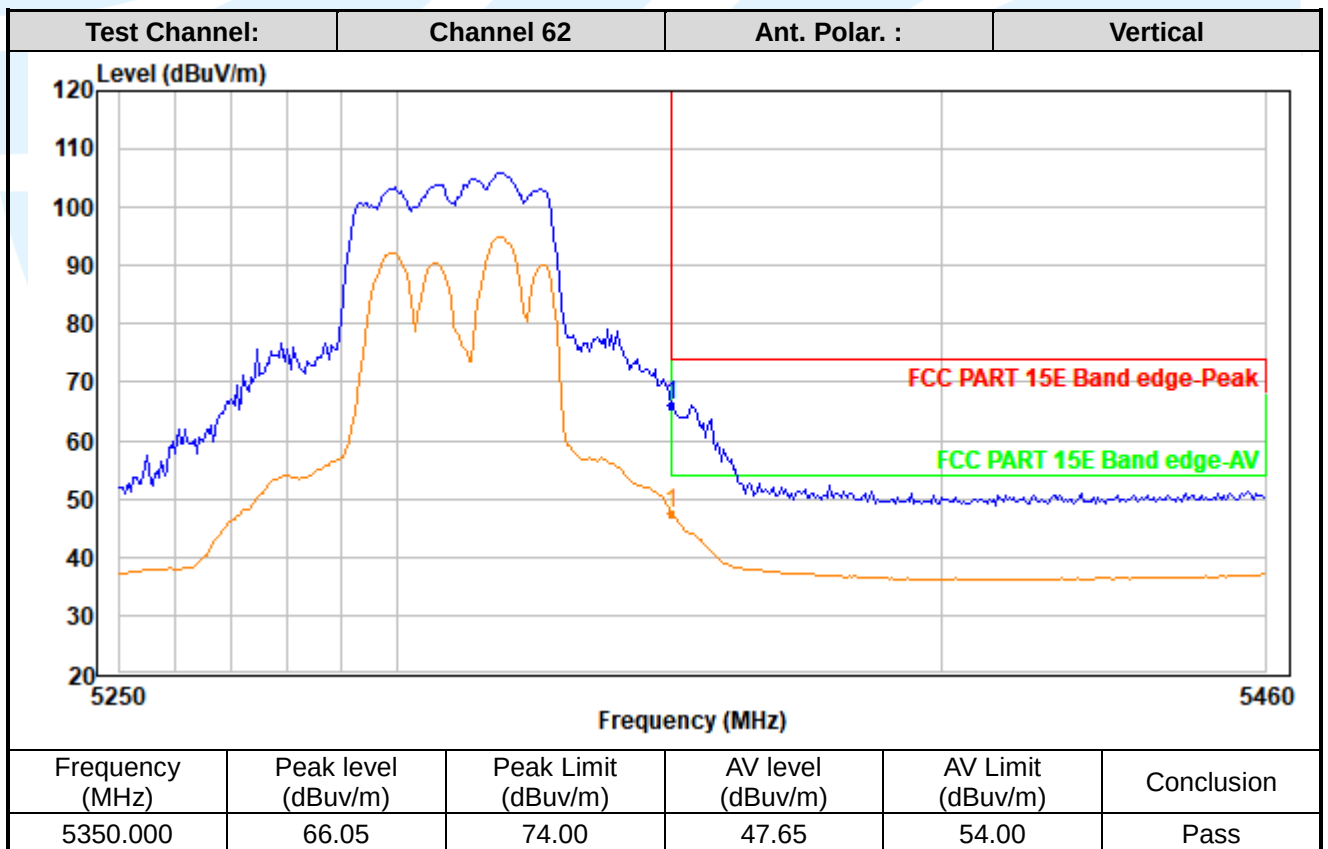
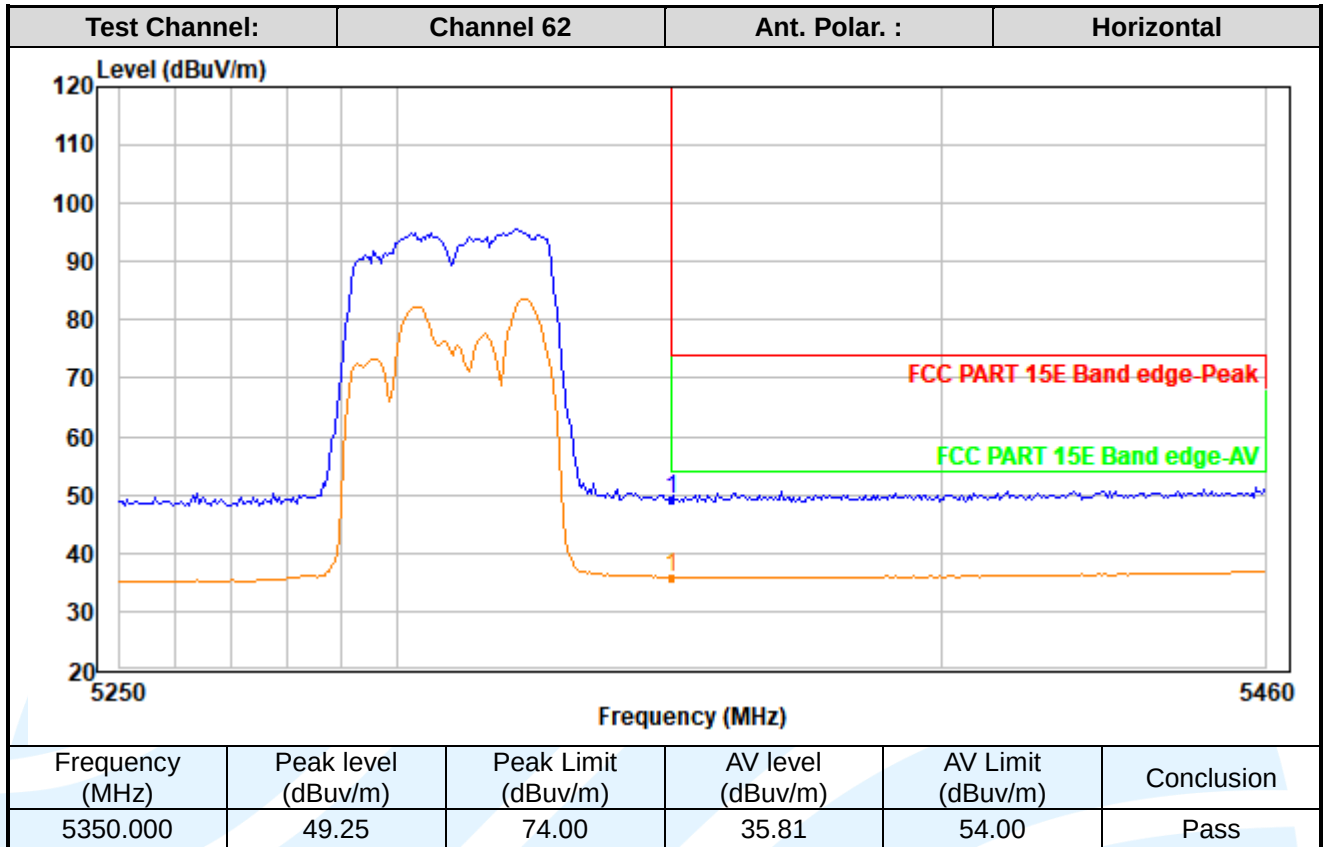
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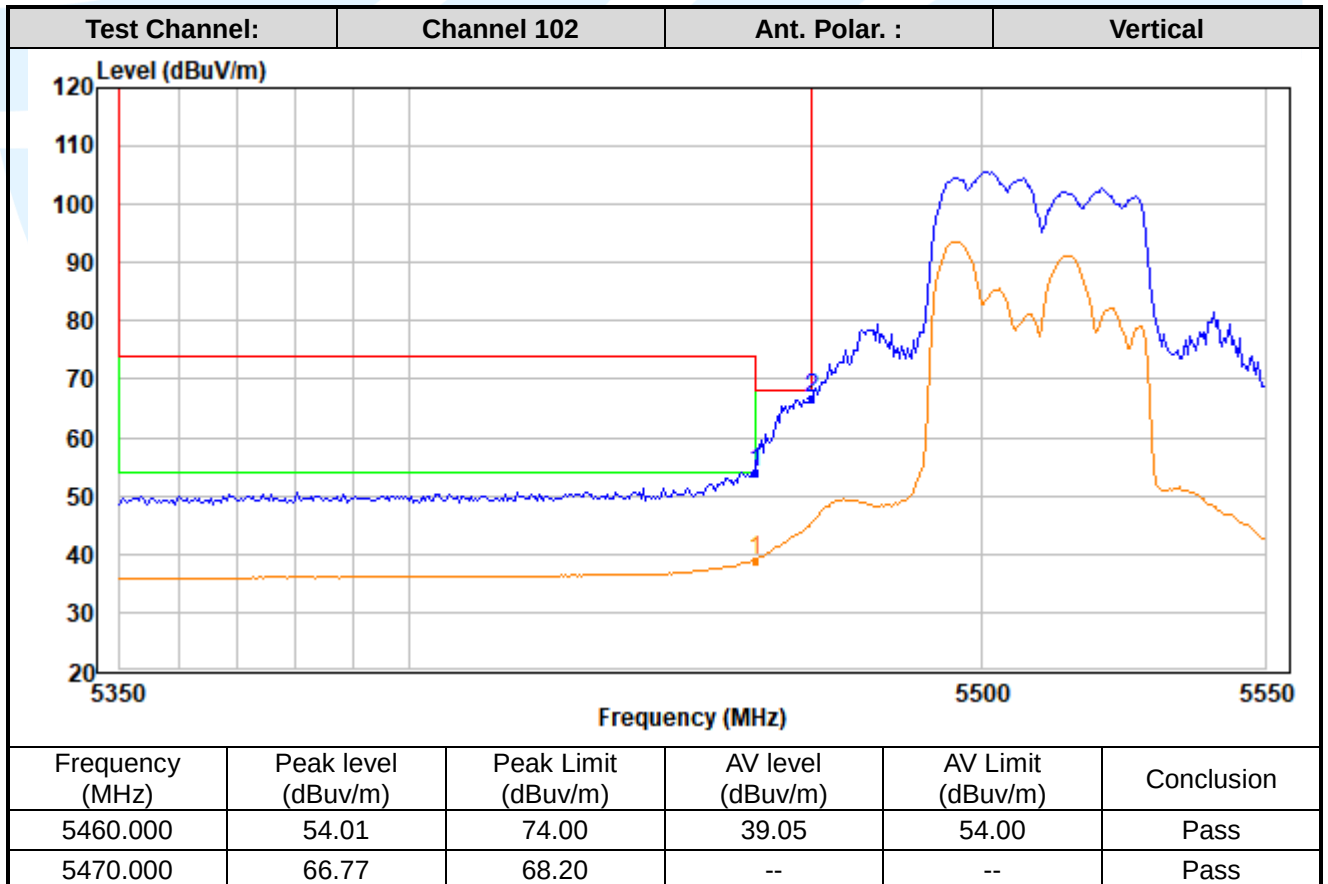
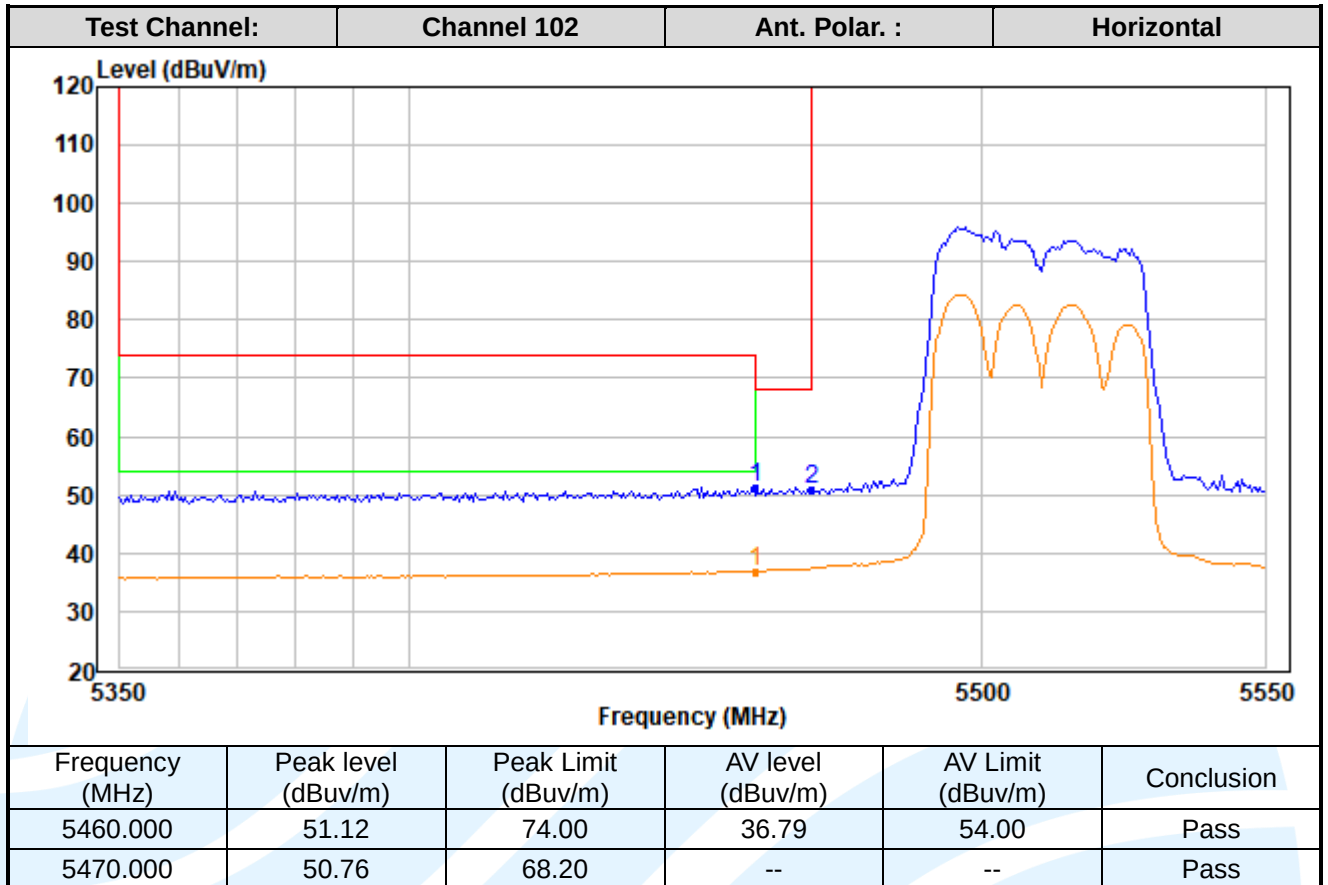
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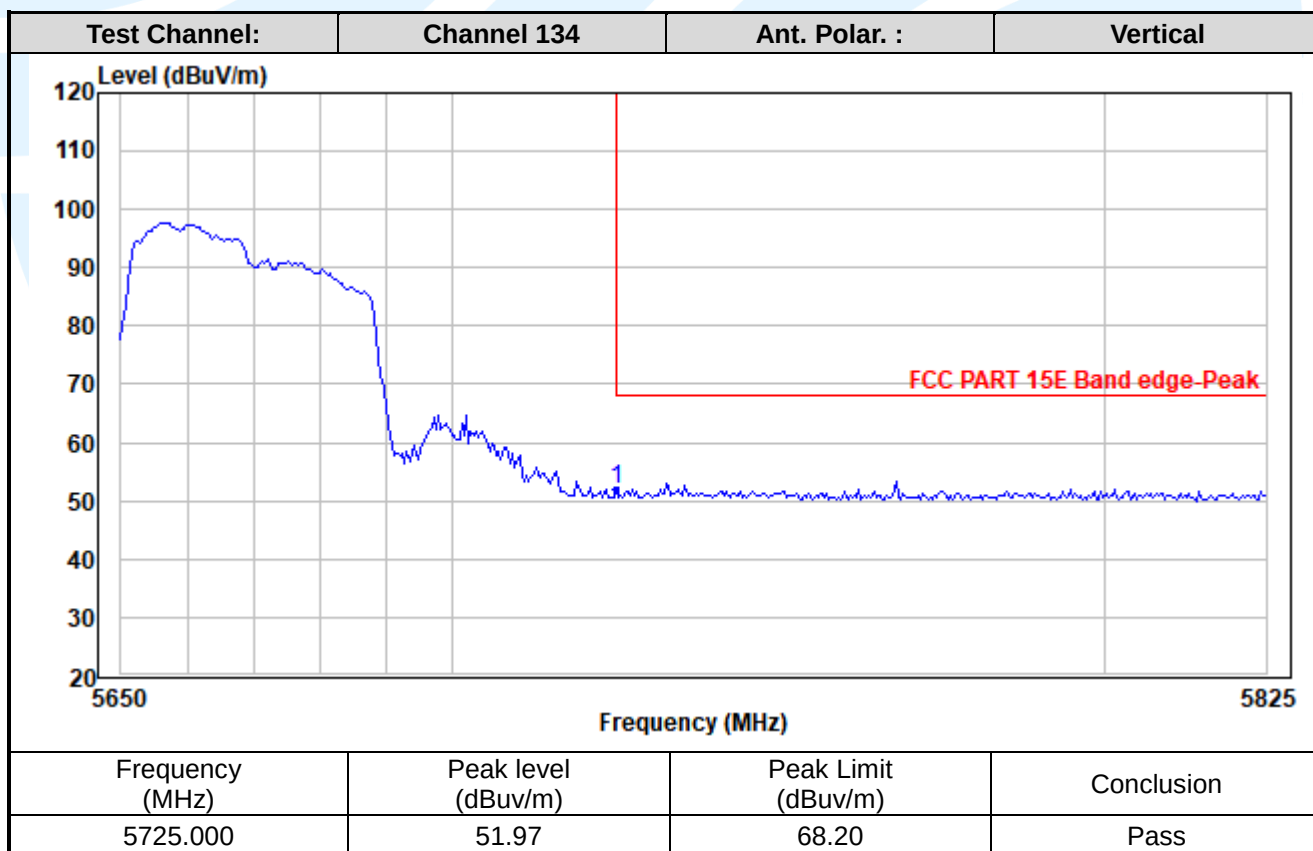
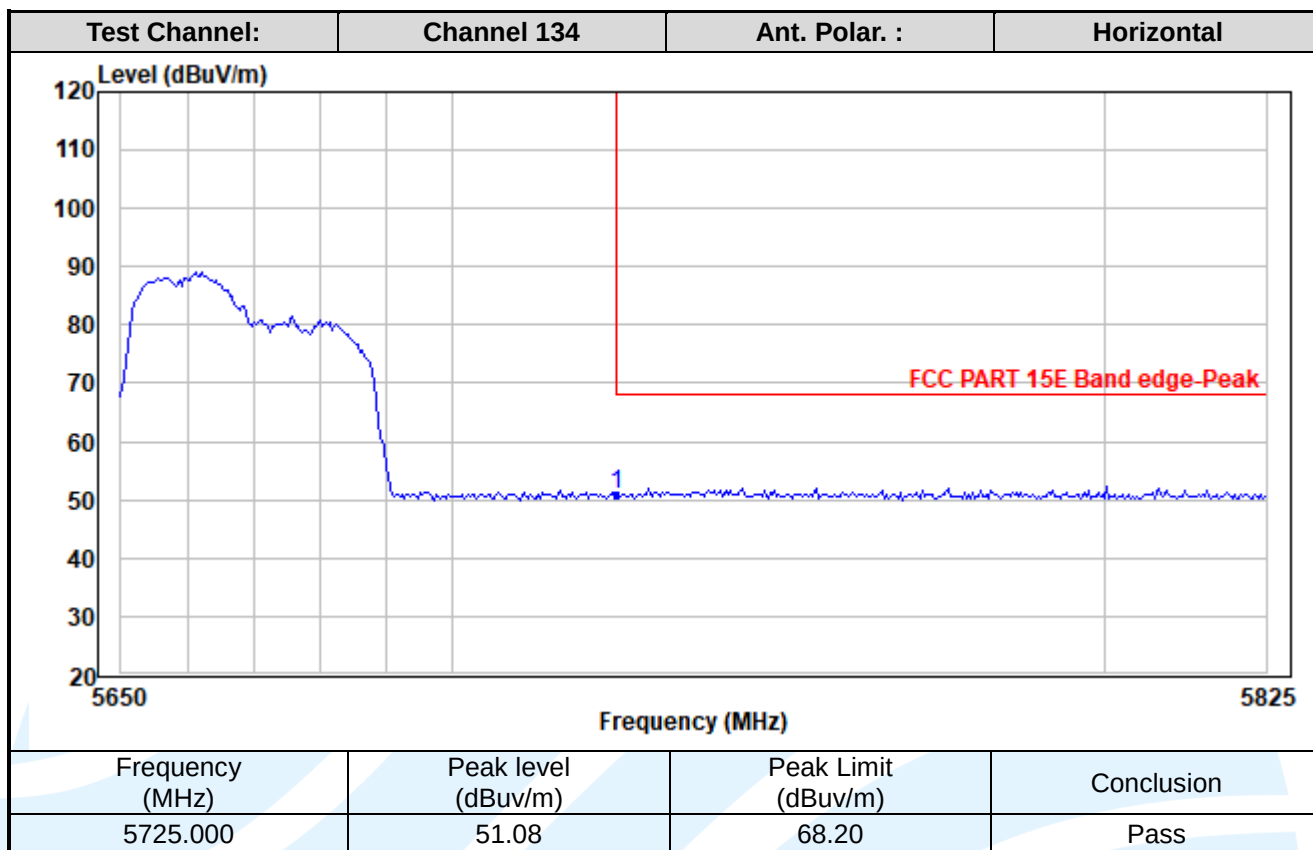
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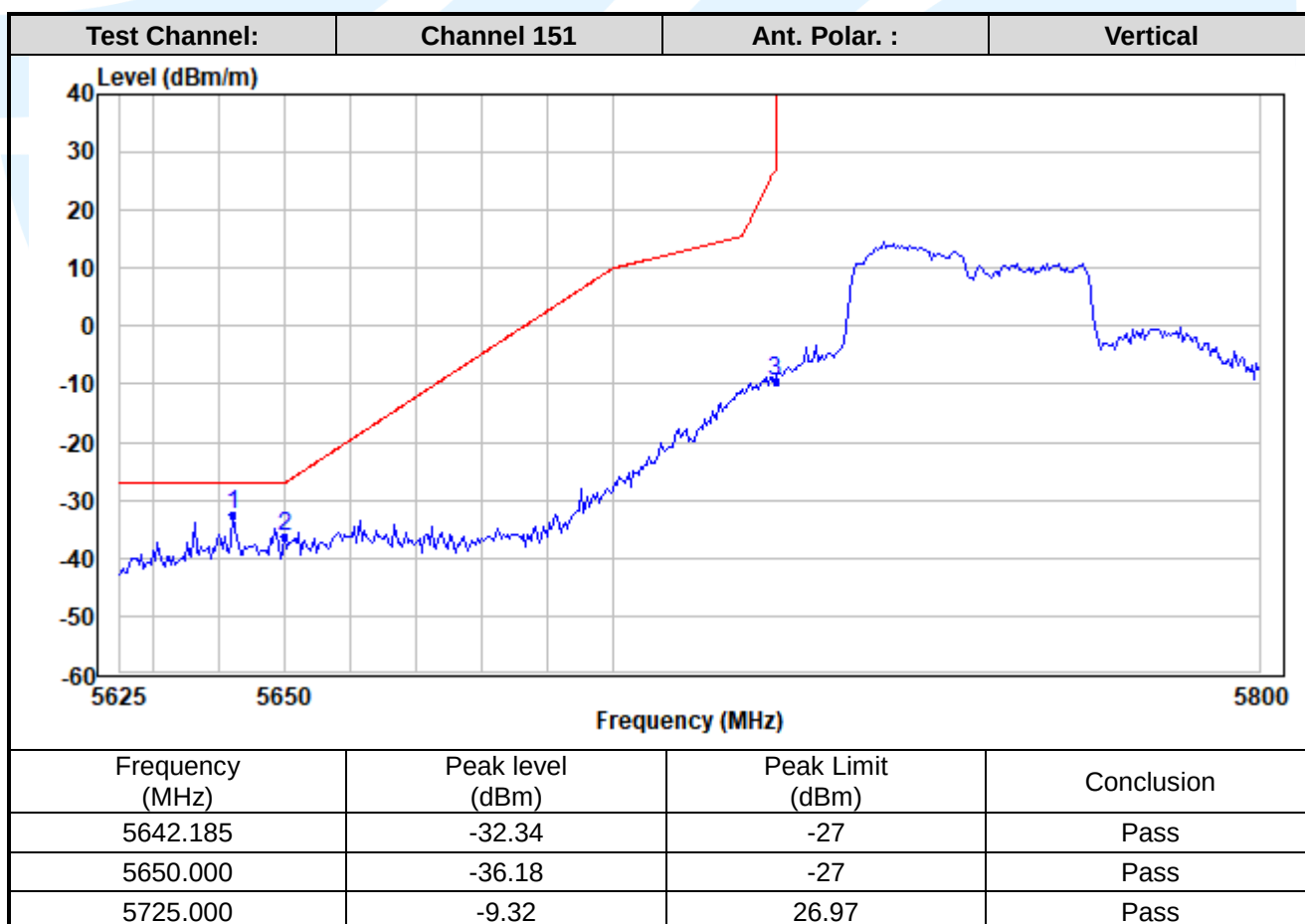
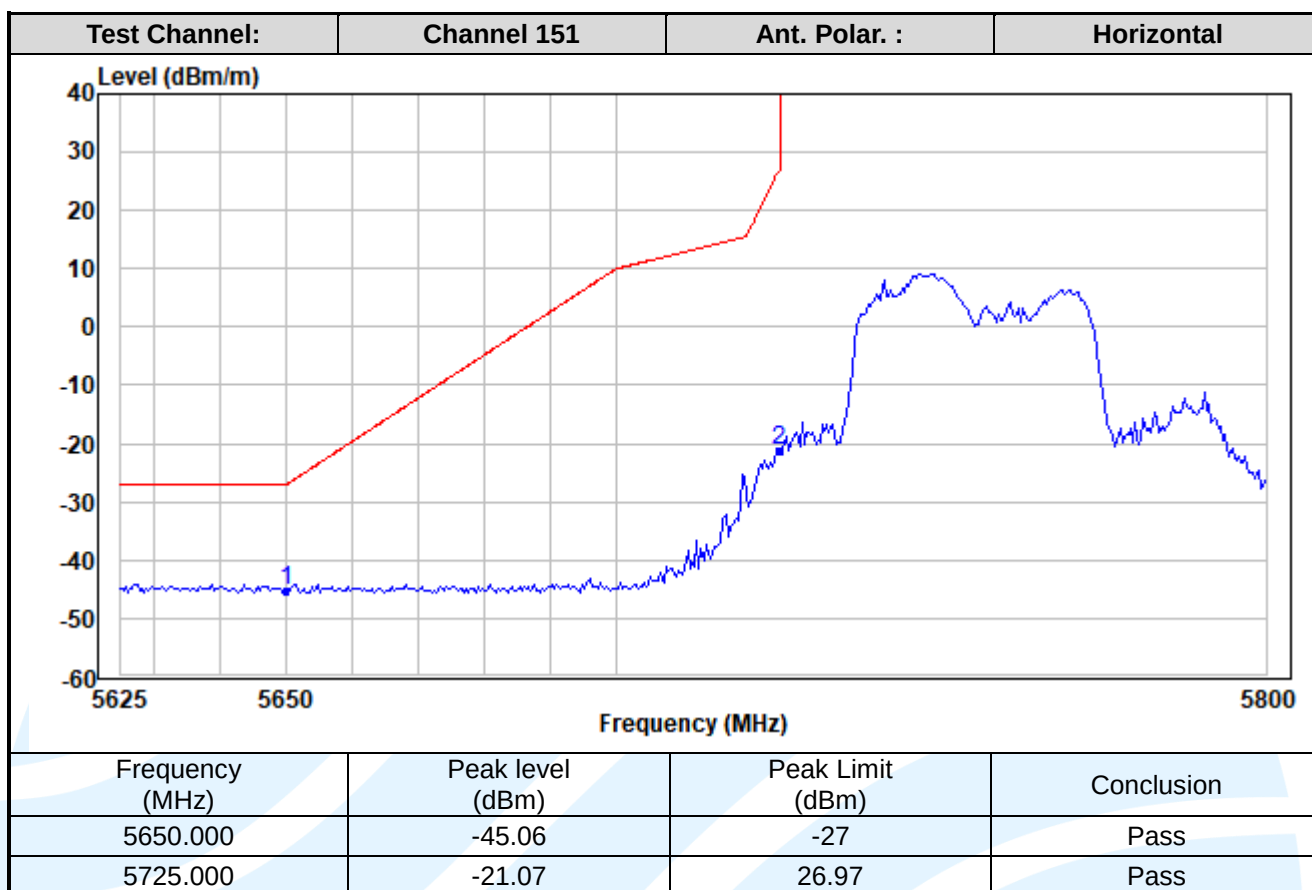
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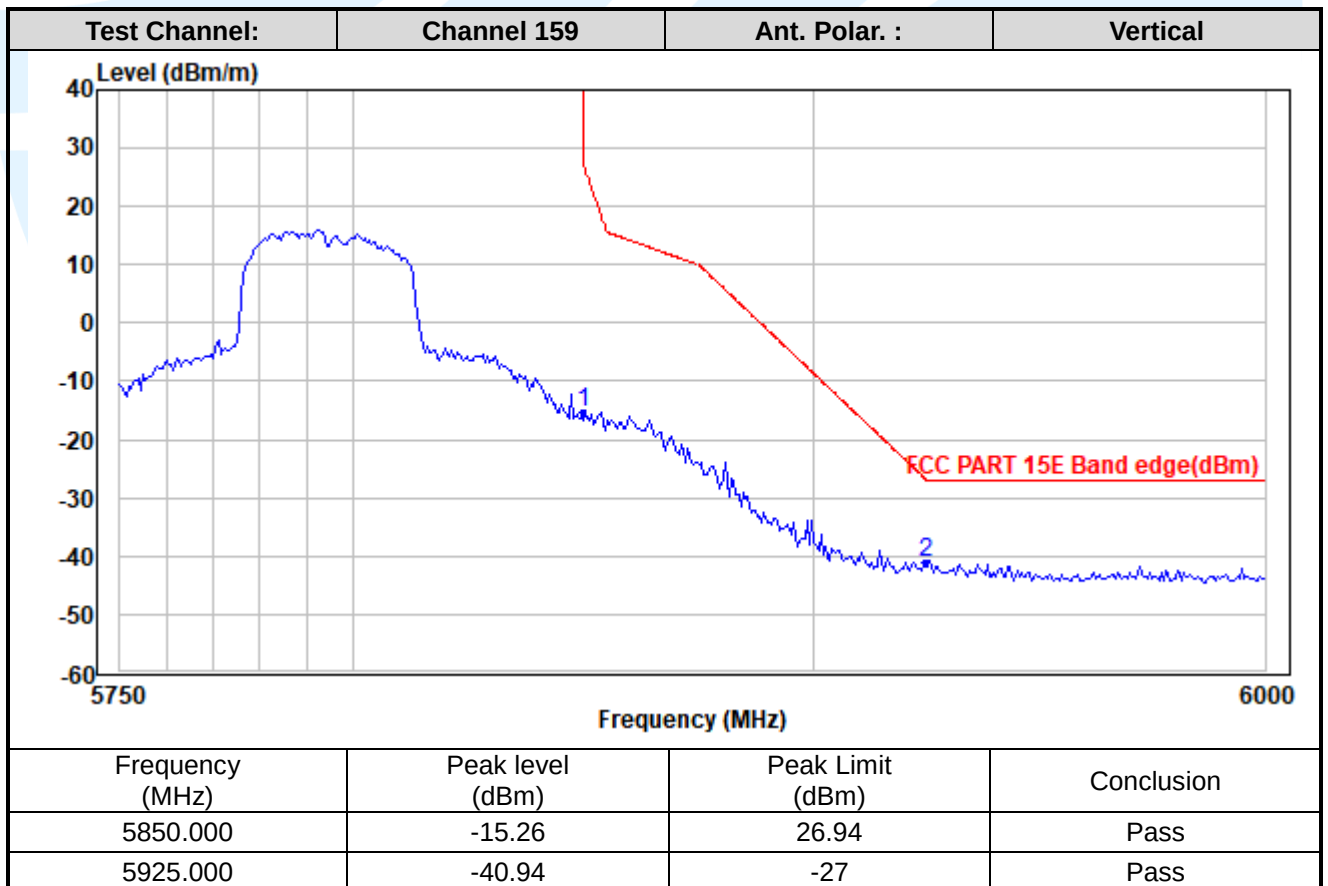
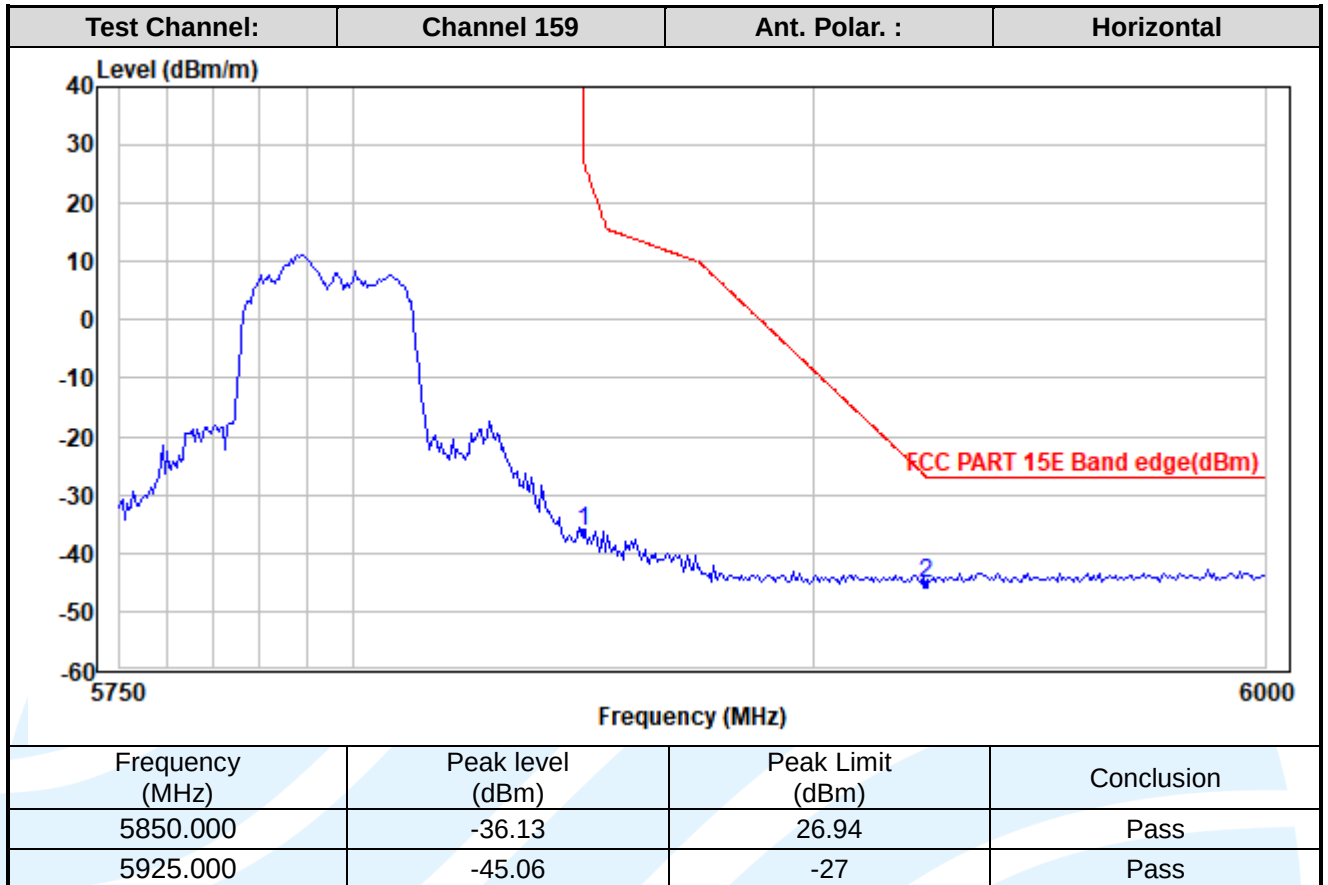
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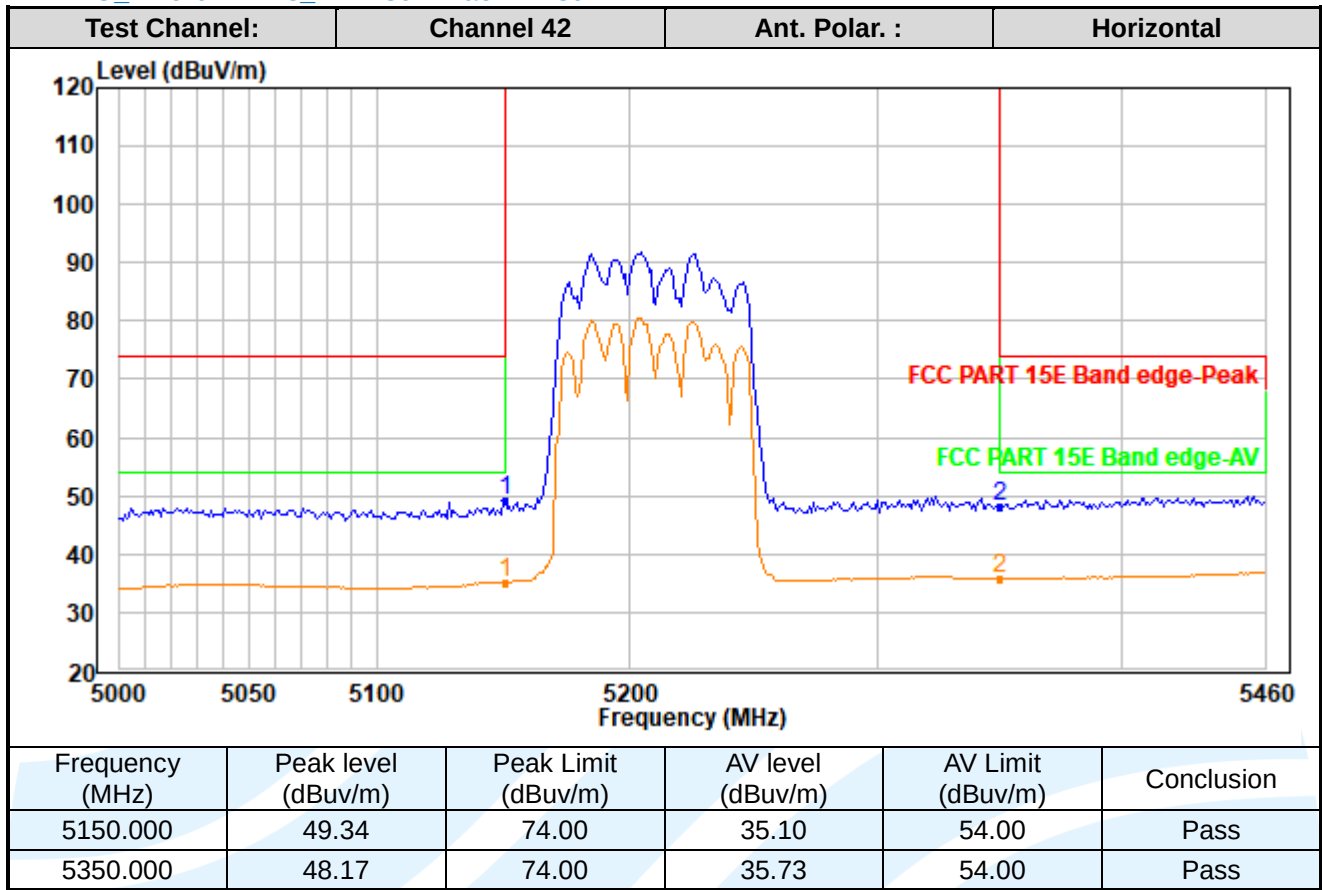
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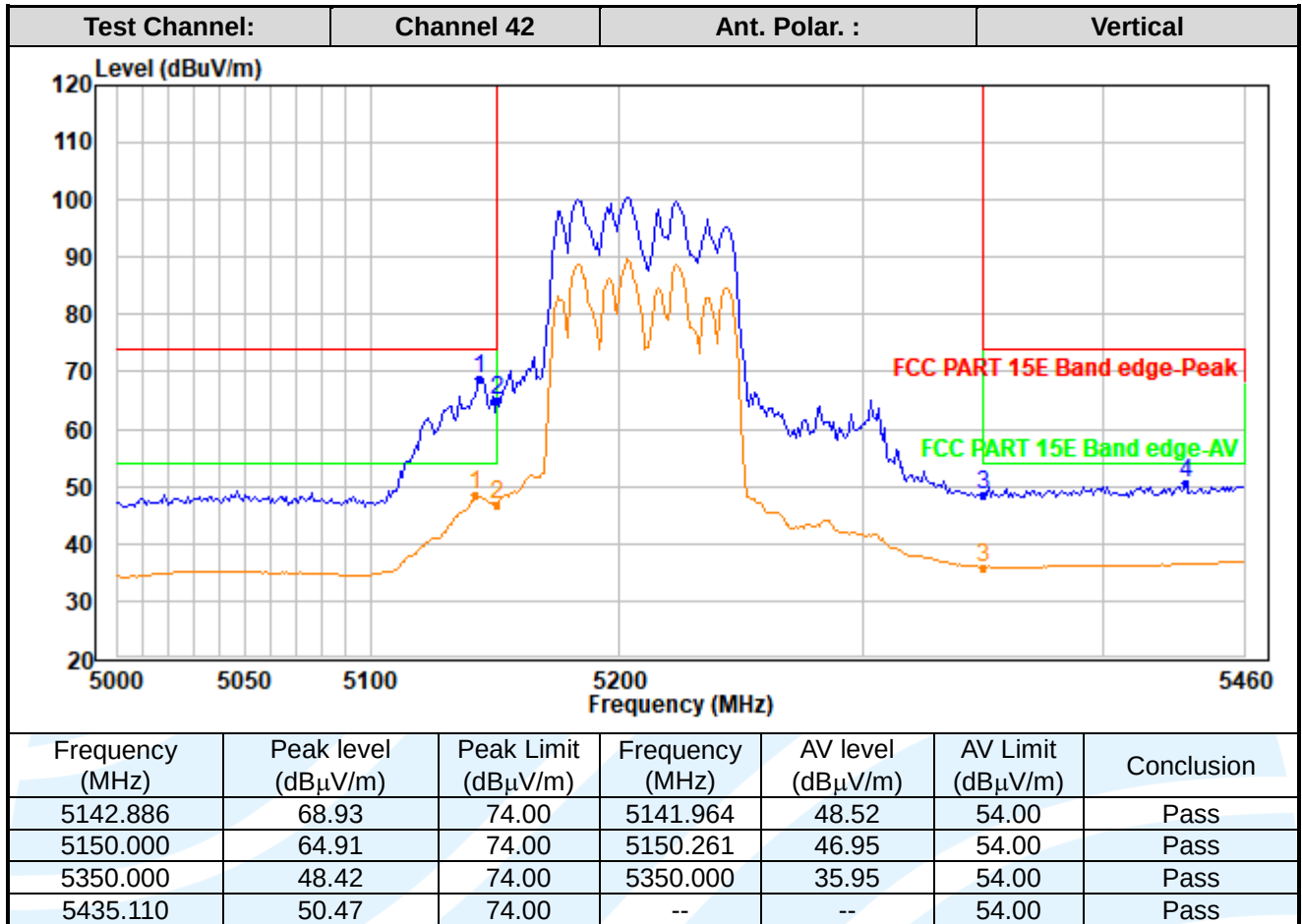
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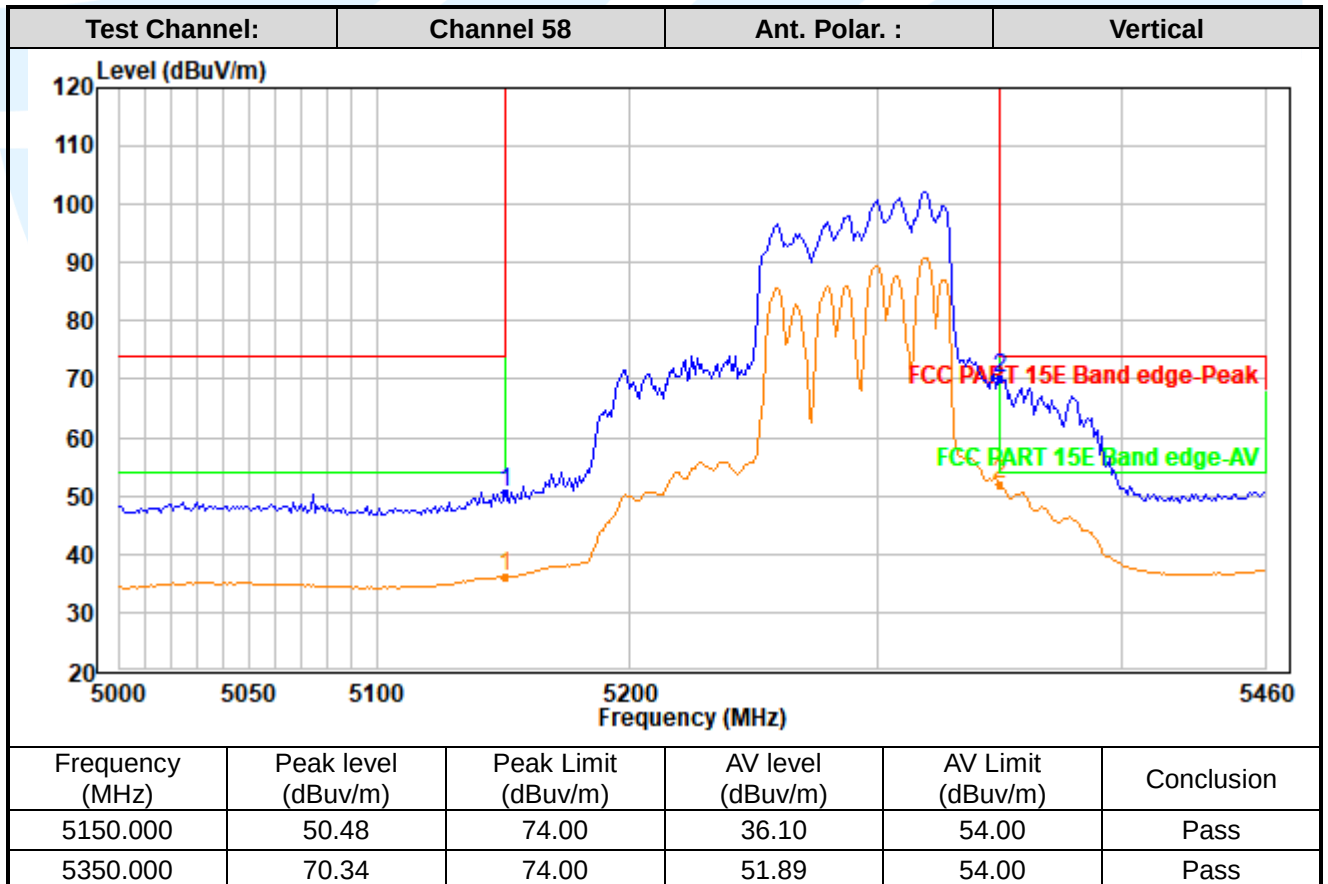
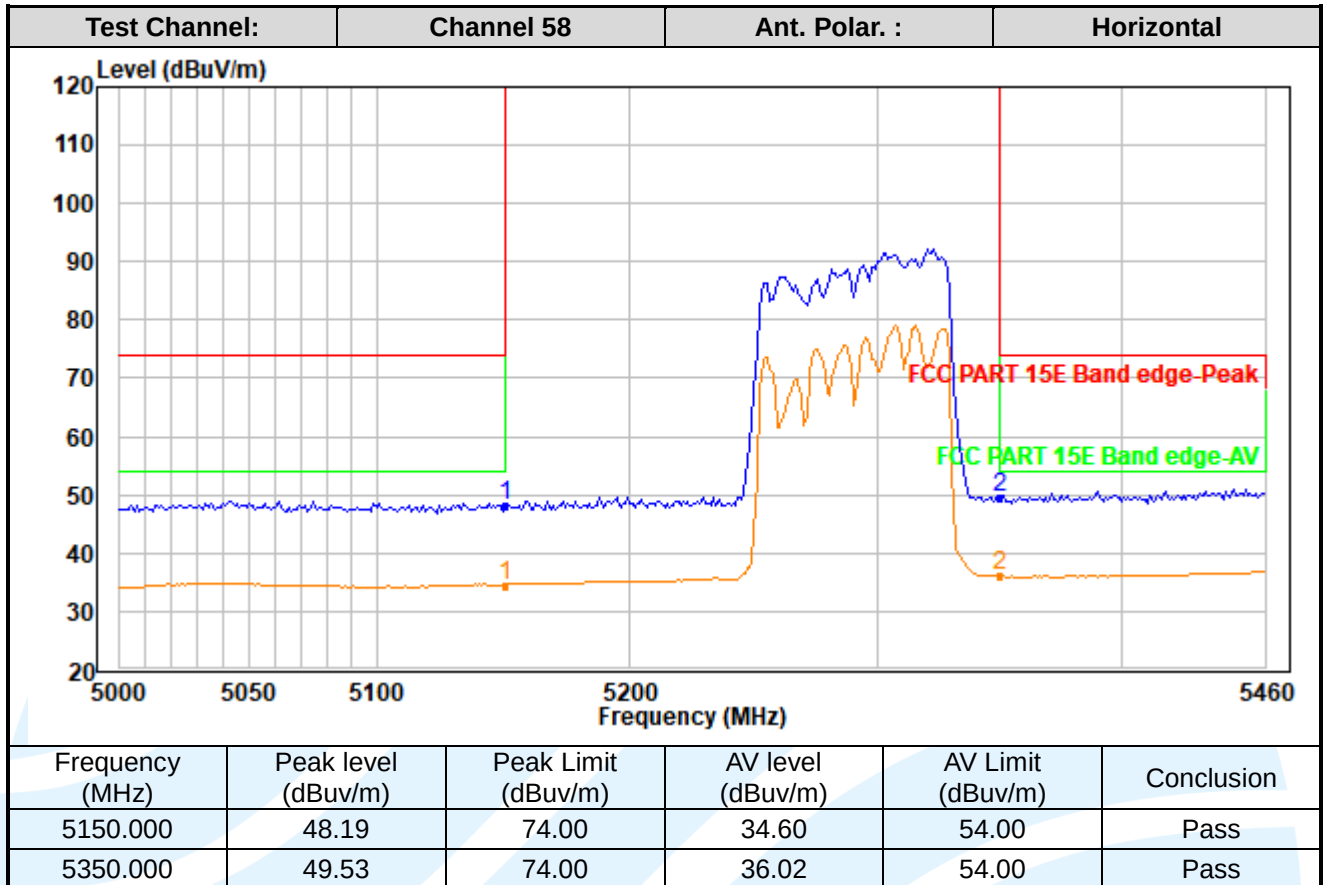
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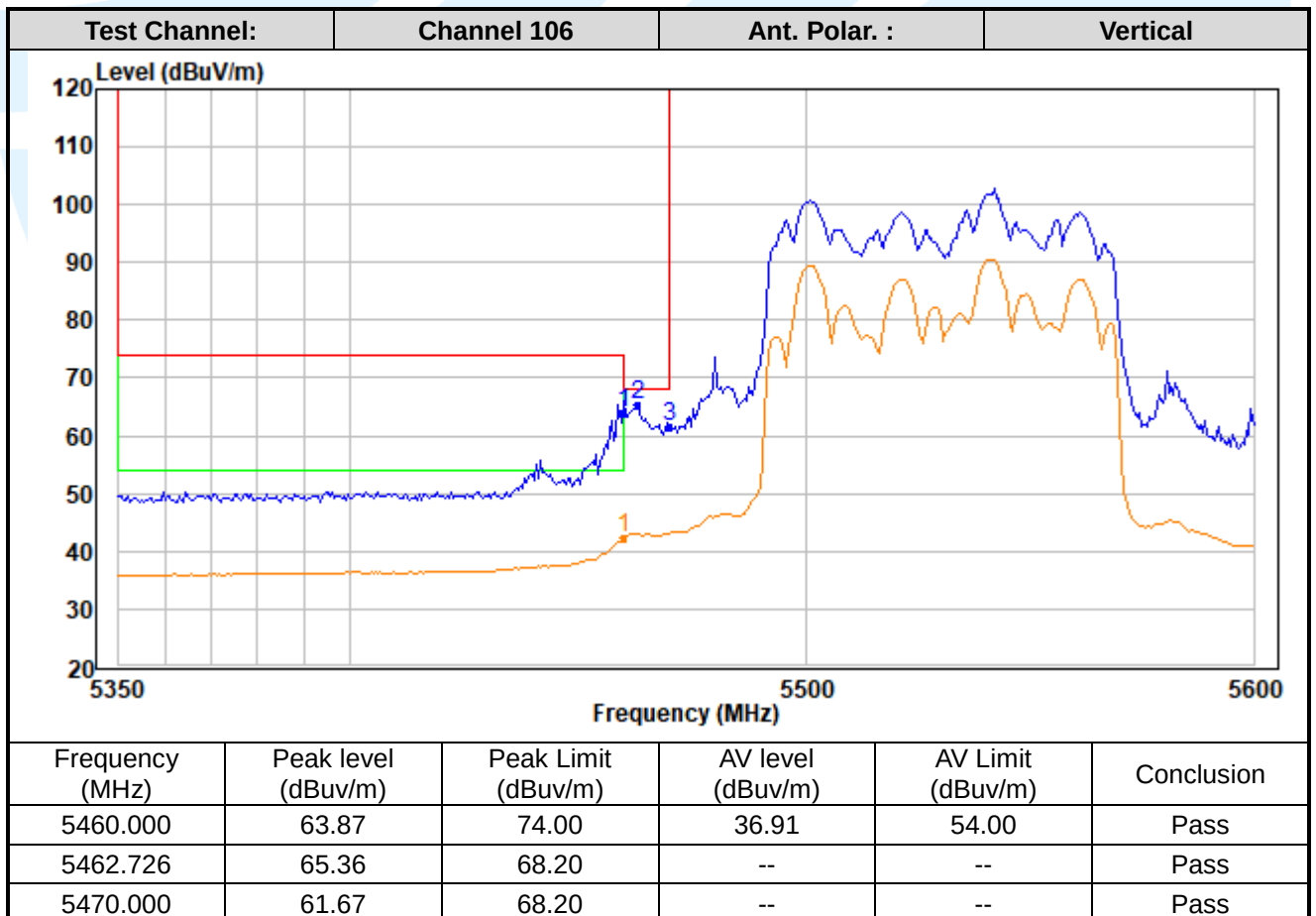
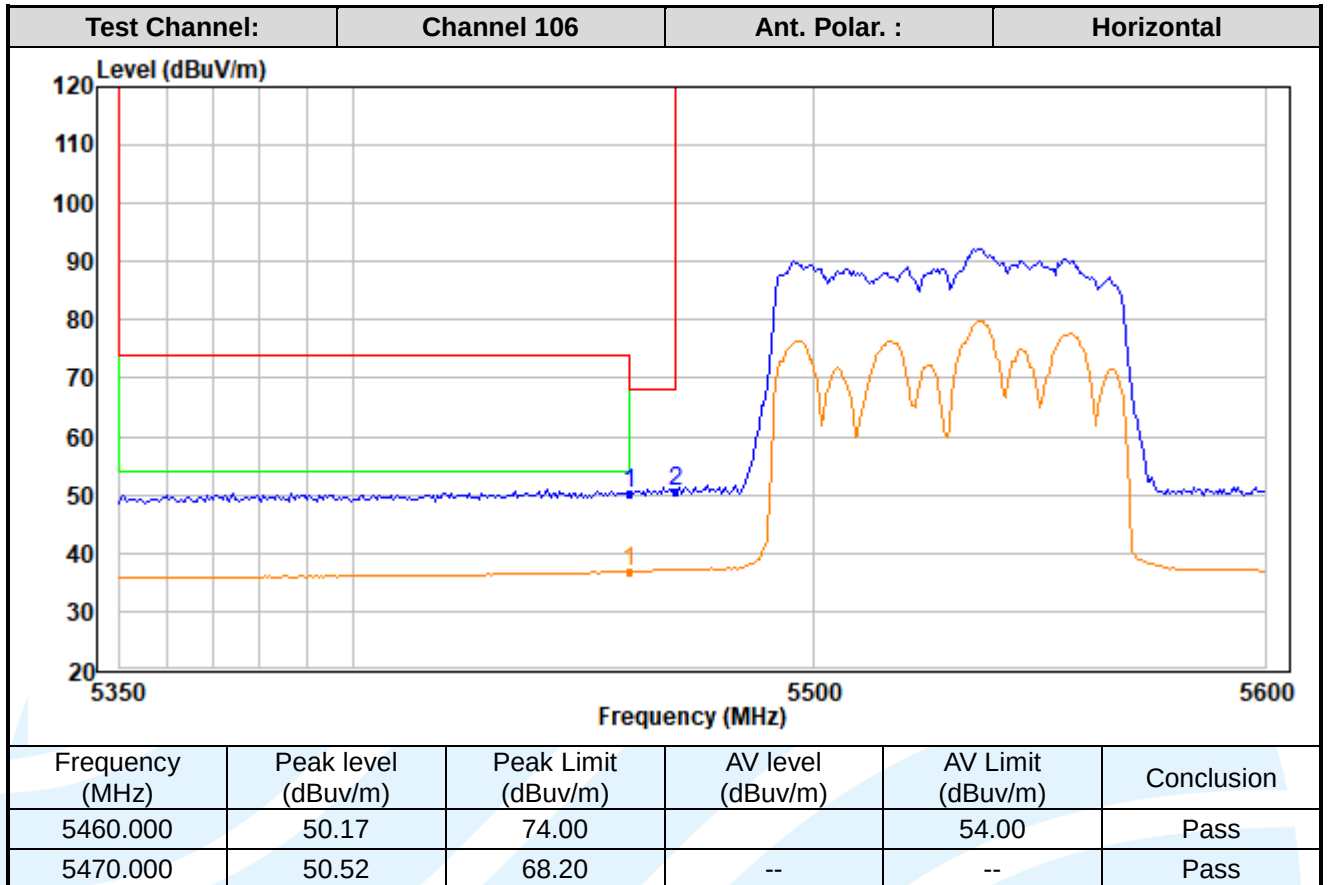
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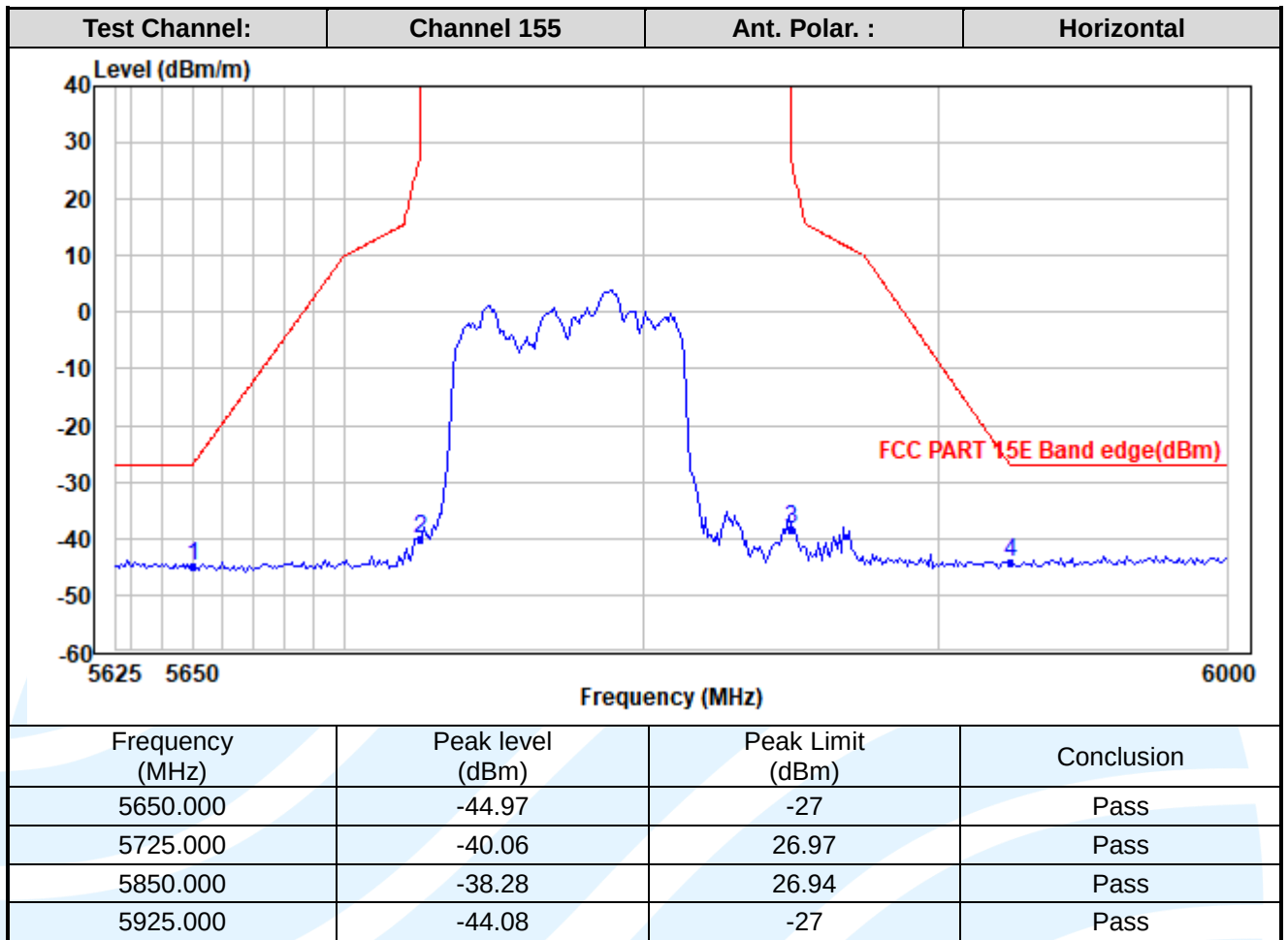
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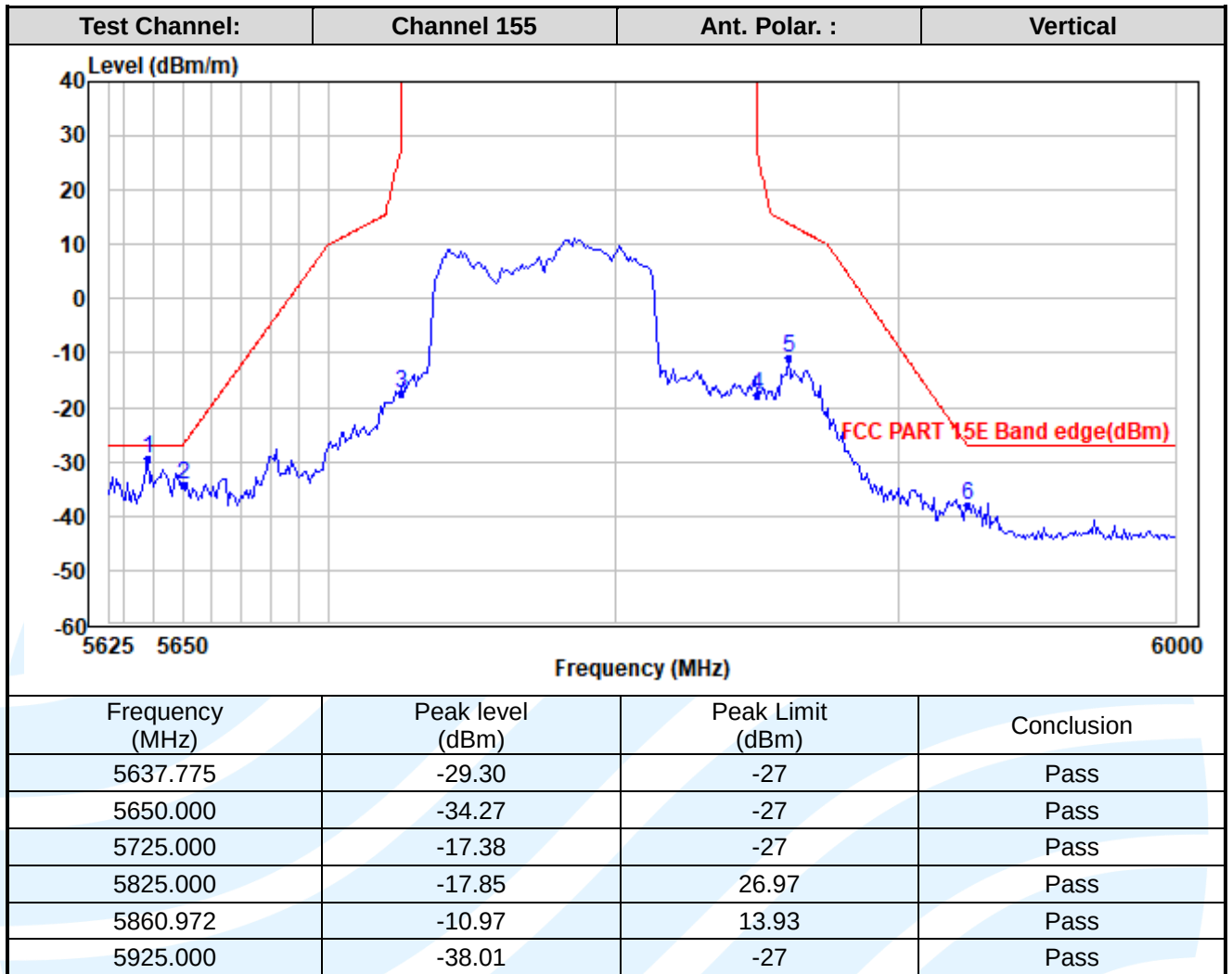
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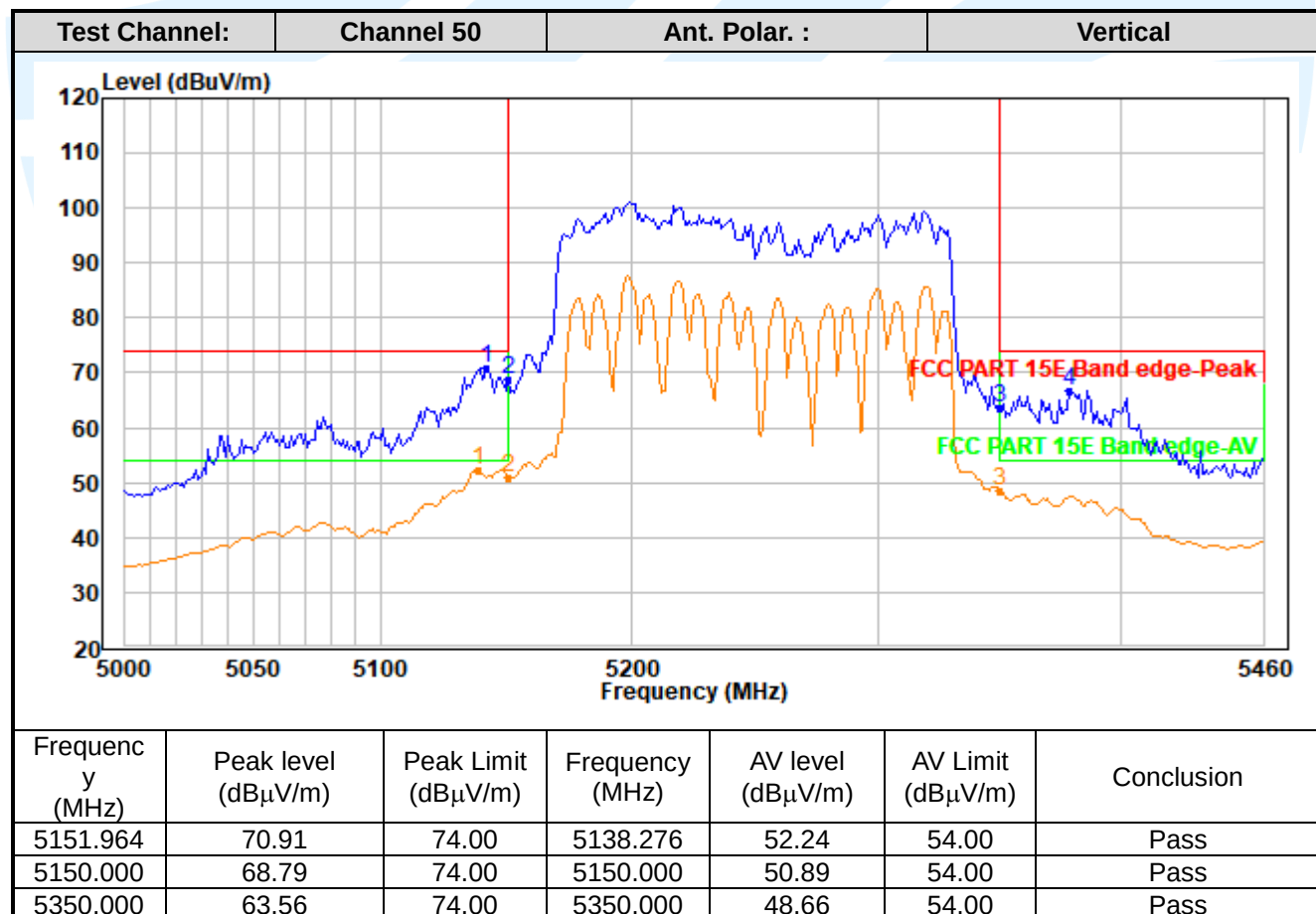
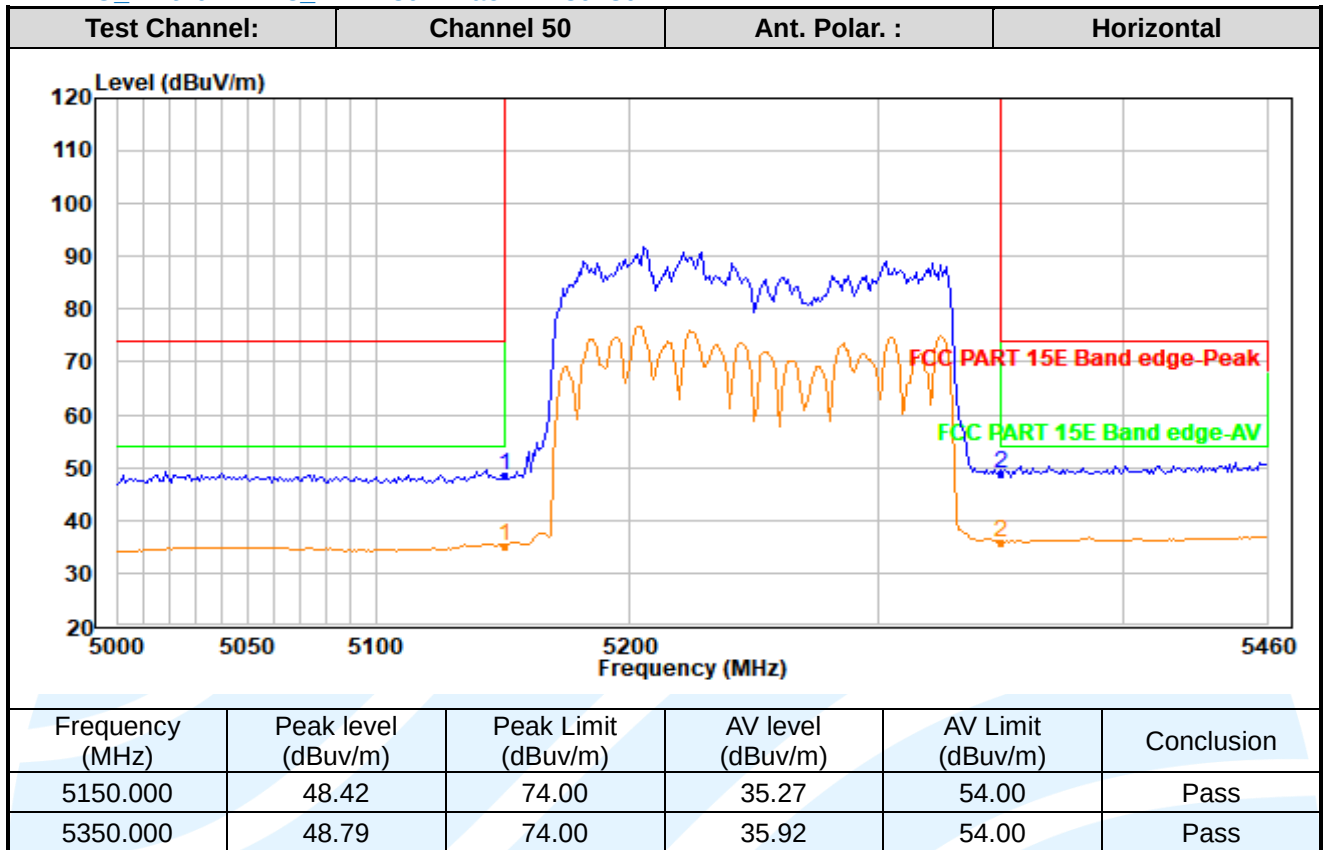
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MIMO_Ant. 0+1+2+3 IEEE 802.11ac-VHT80+80



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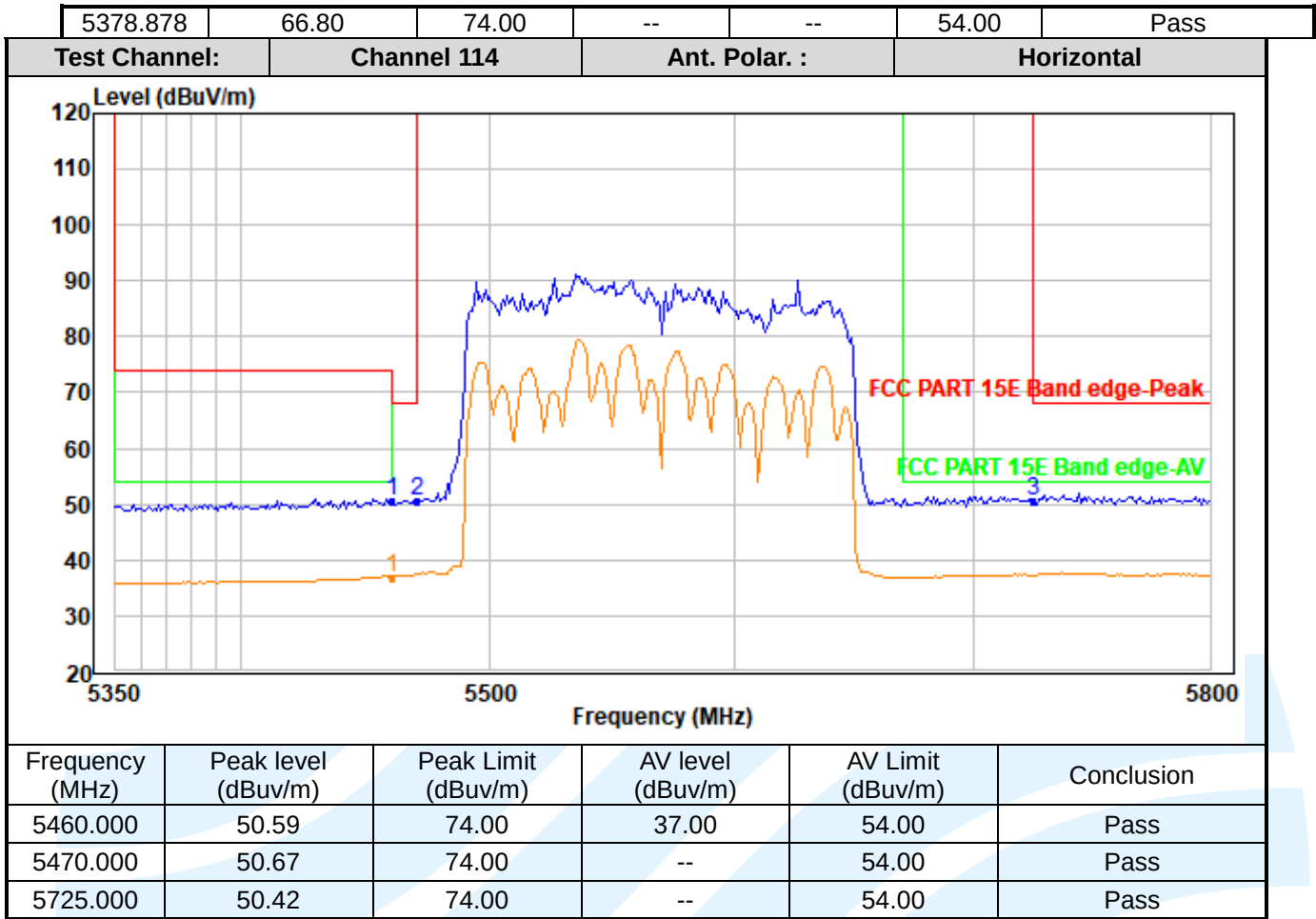
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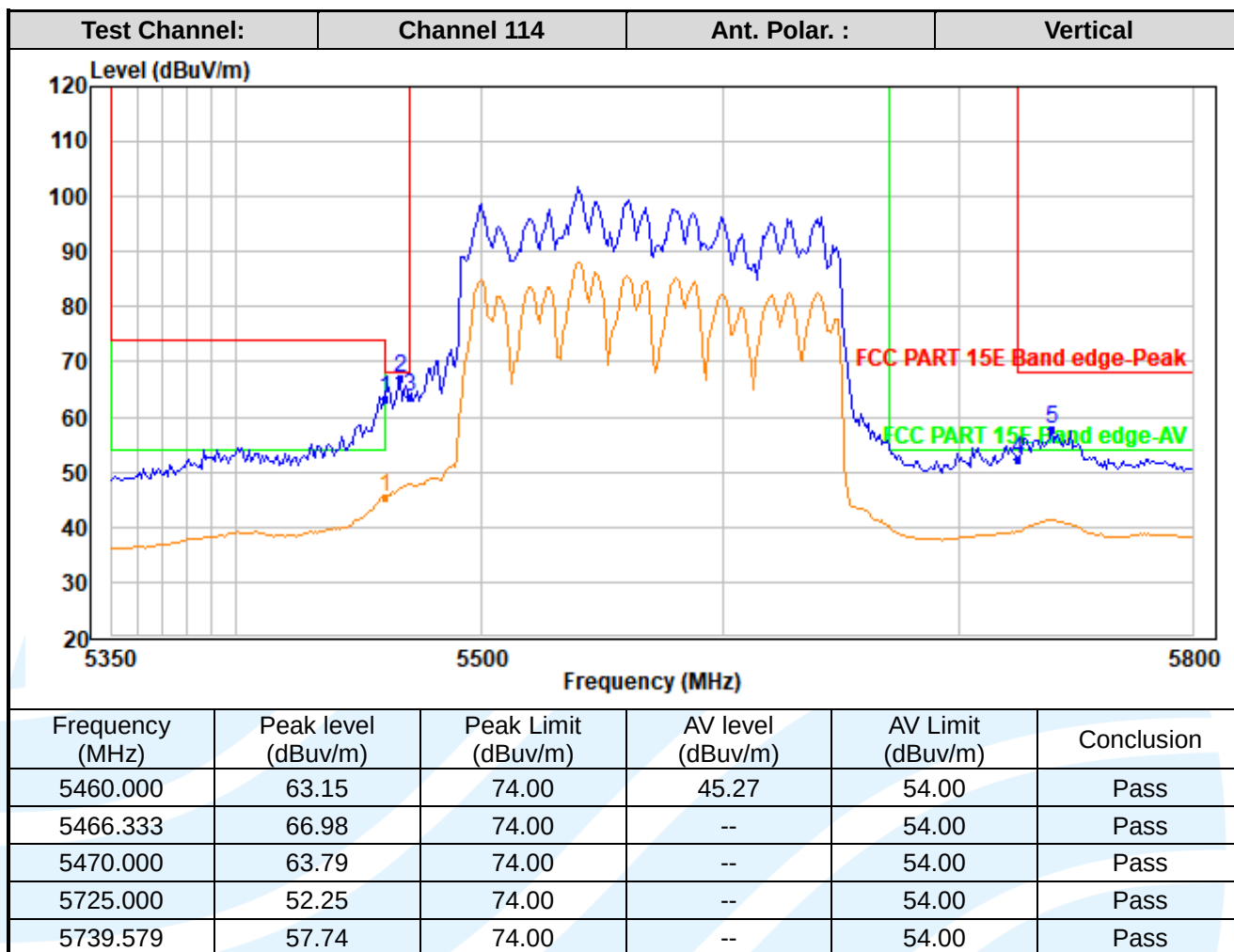
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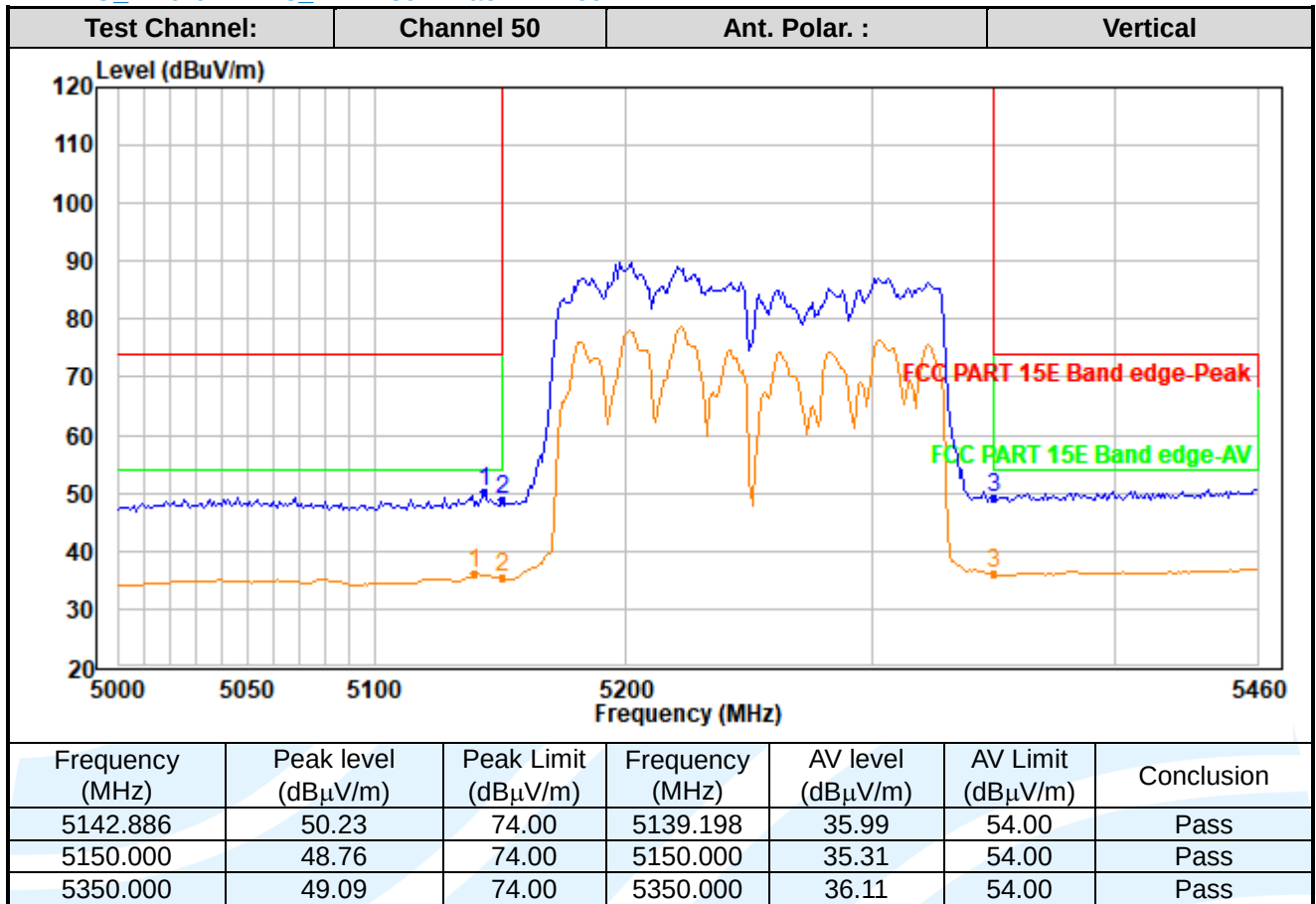
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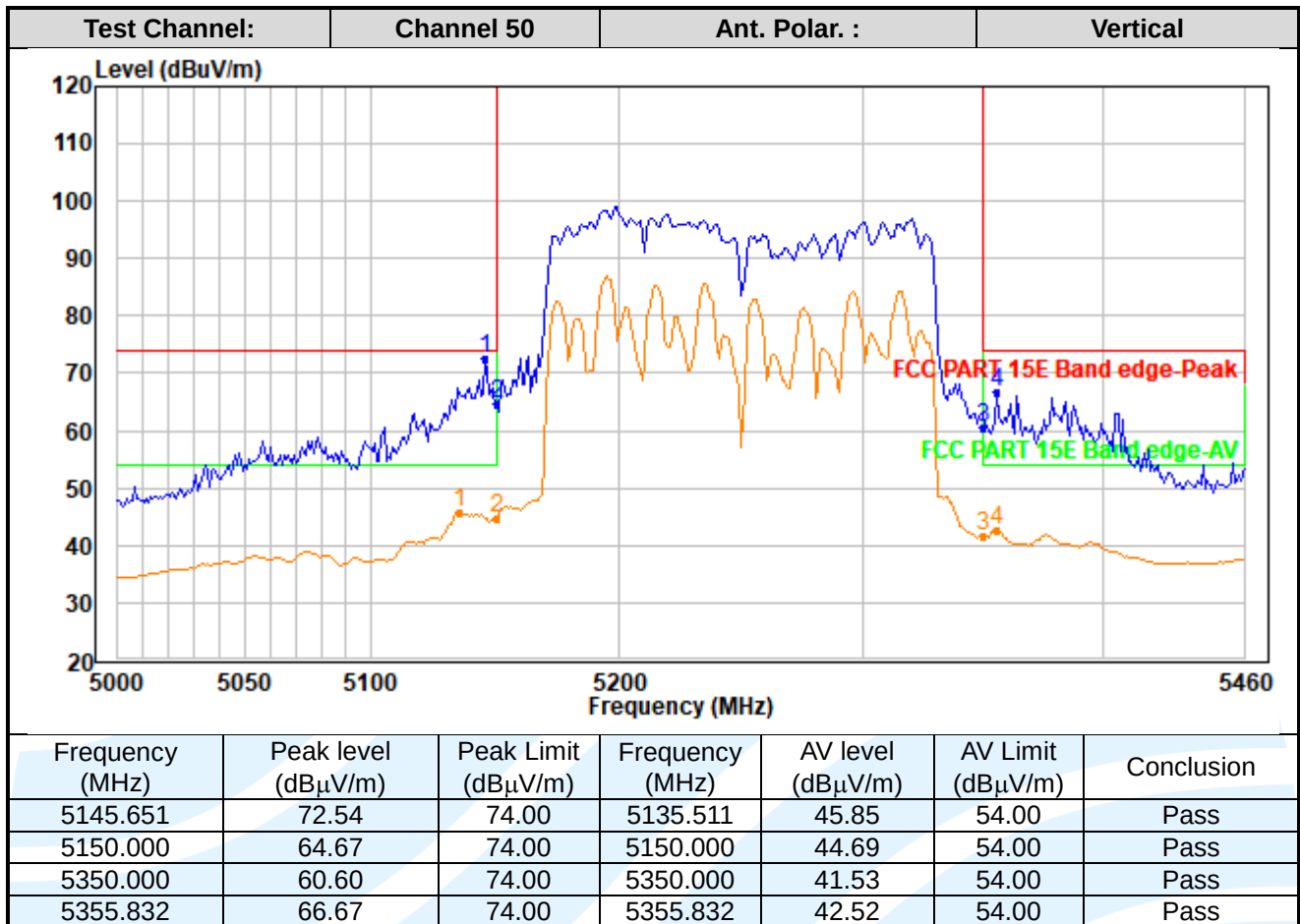
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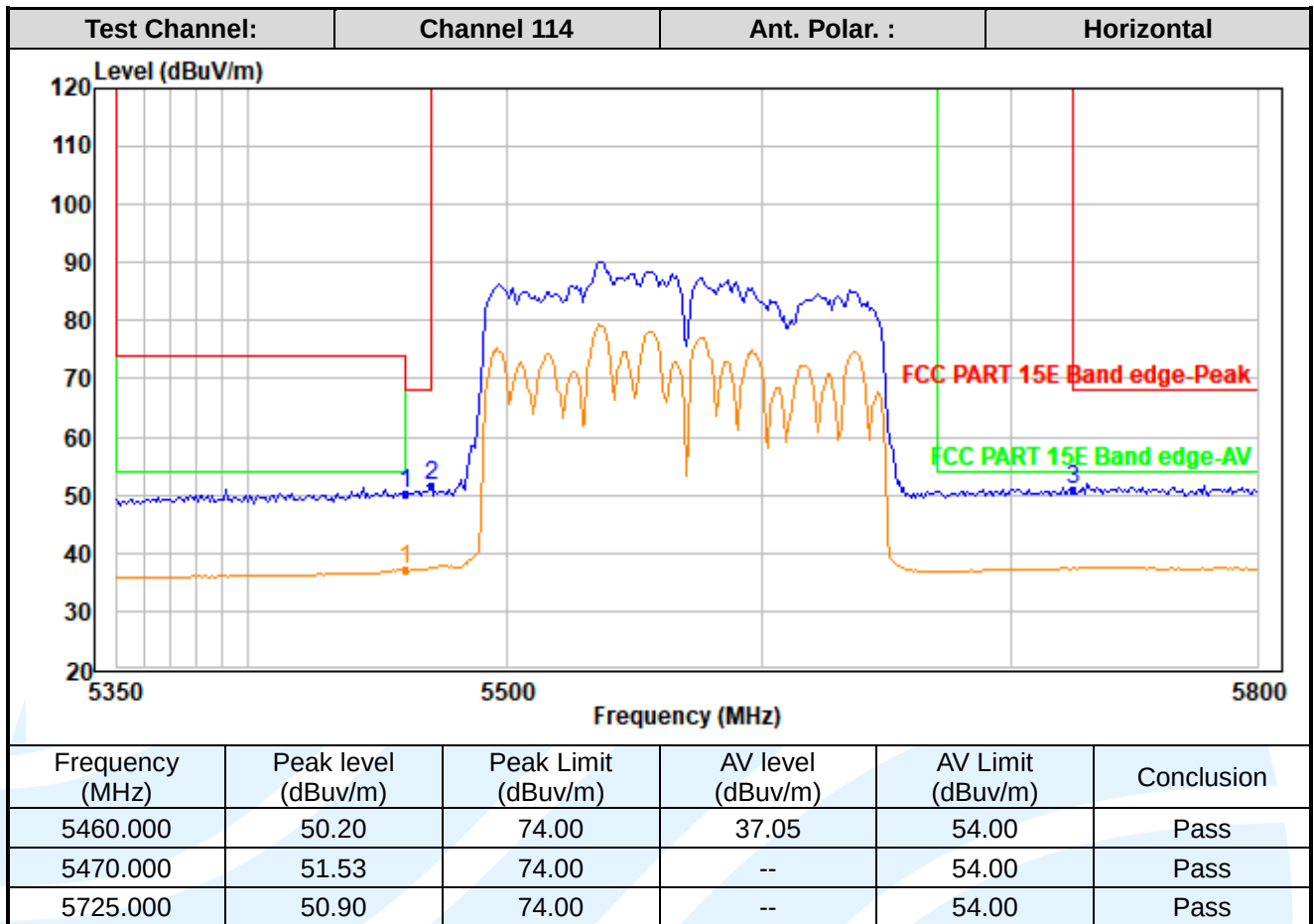
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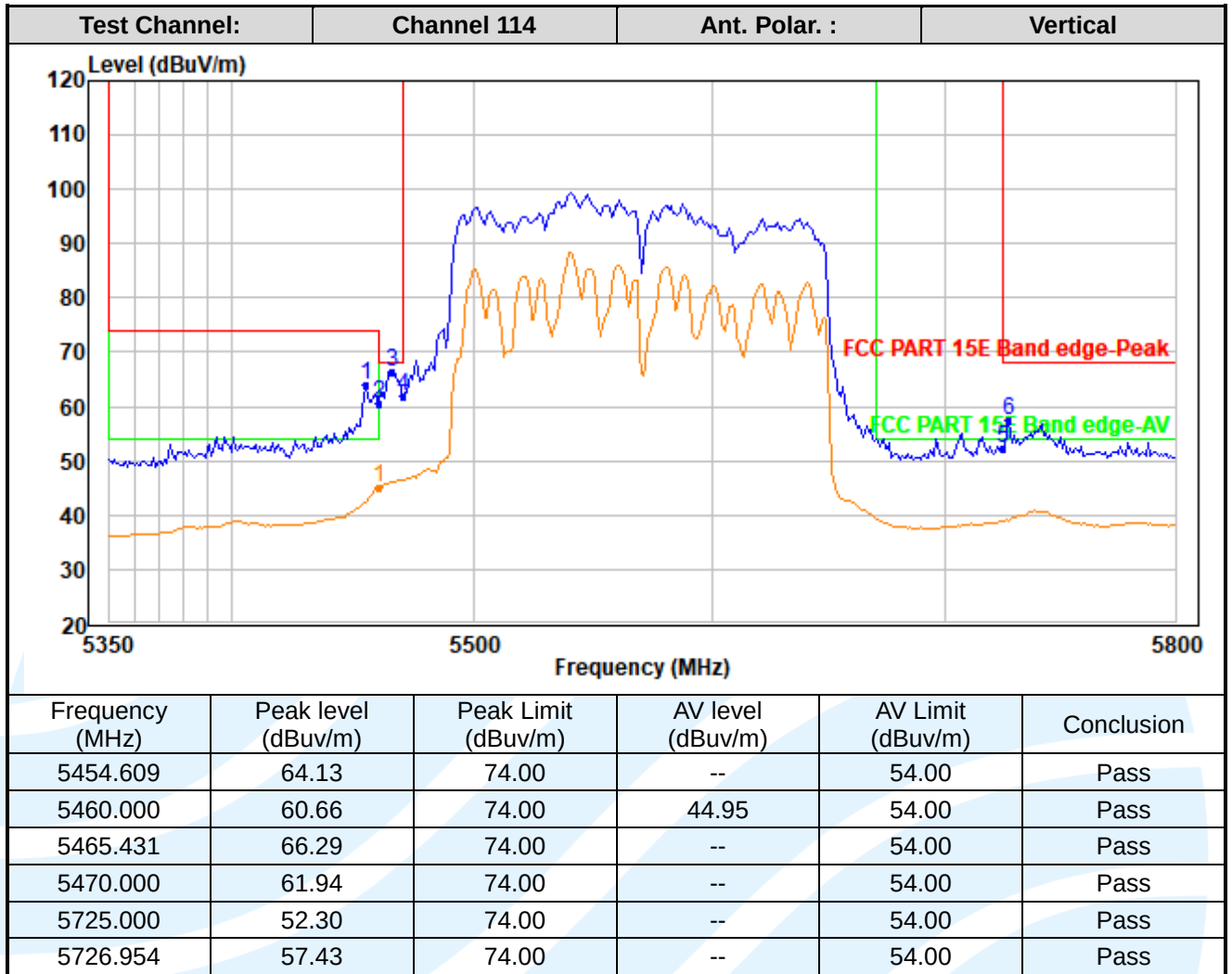
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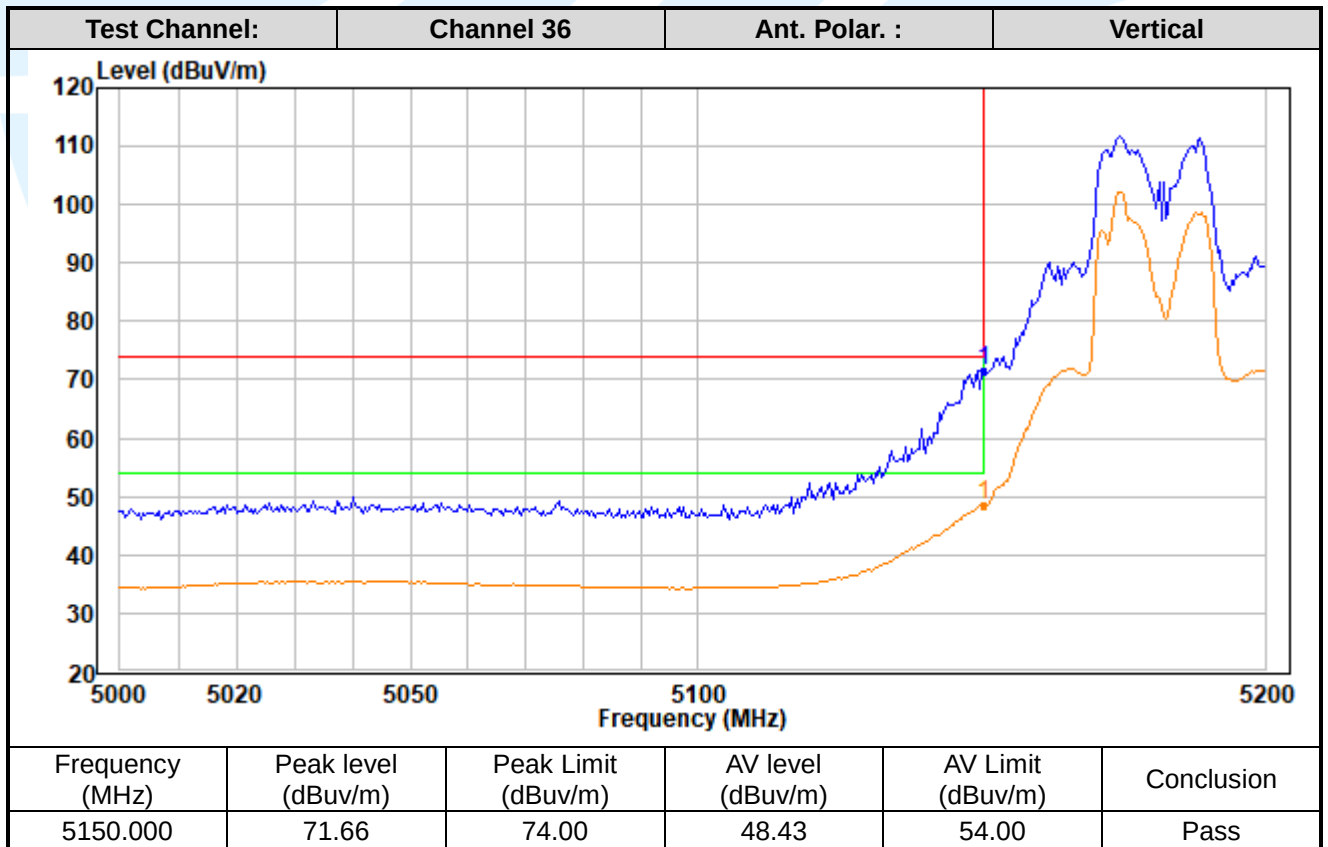
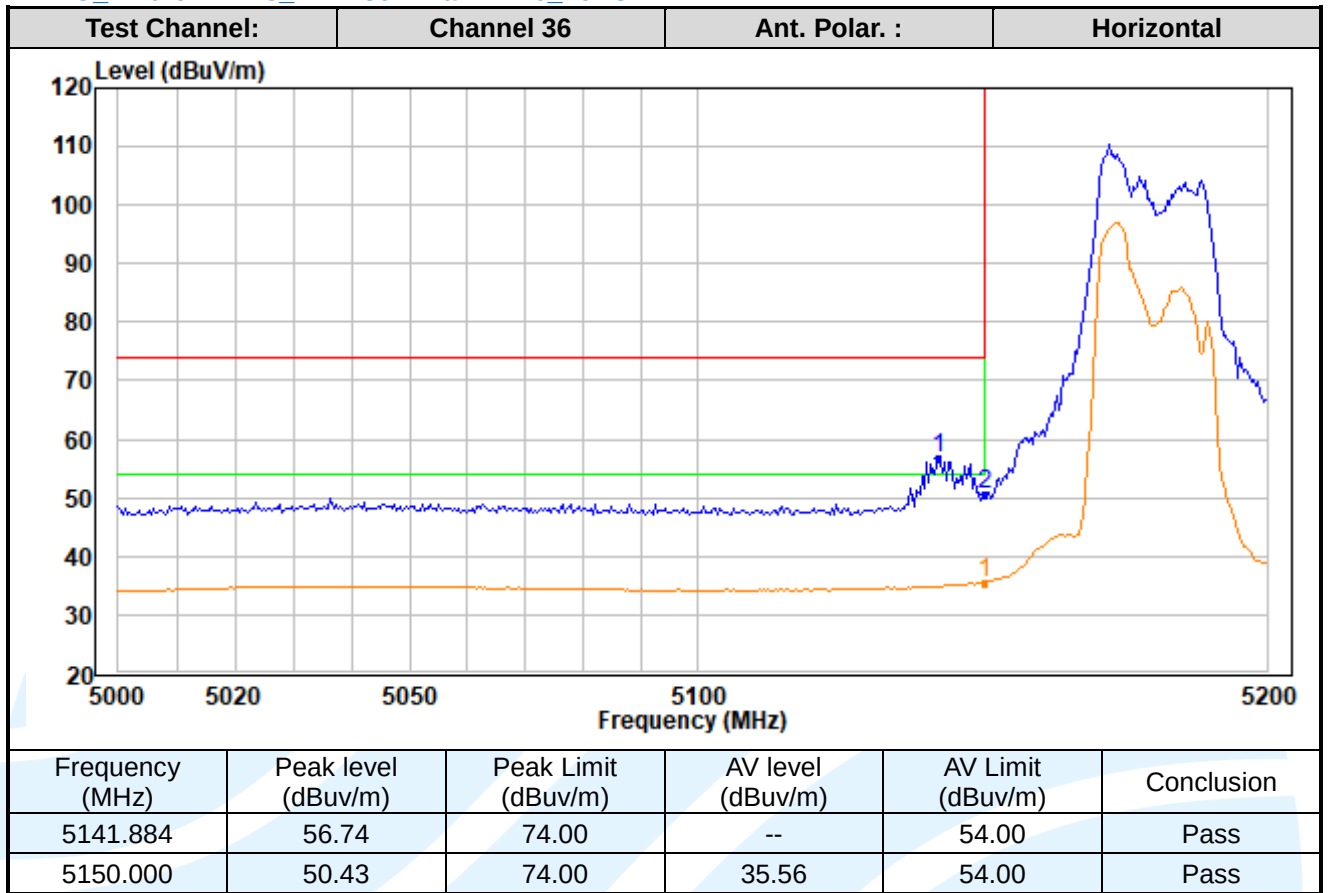
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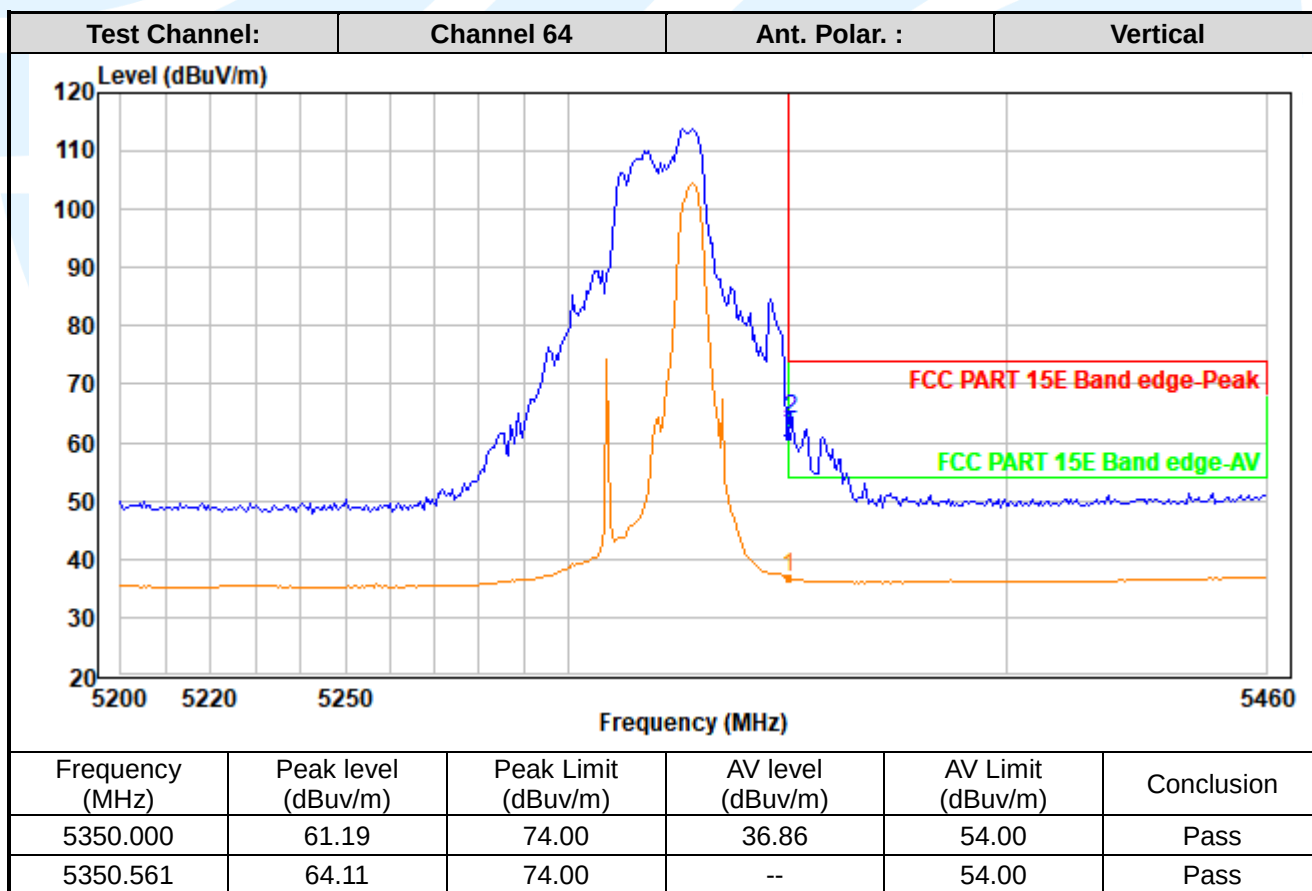
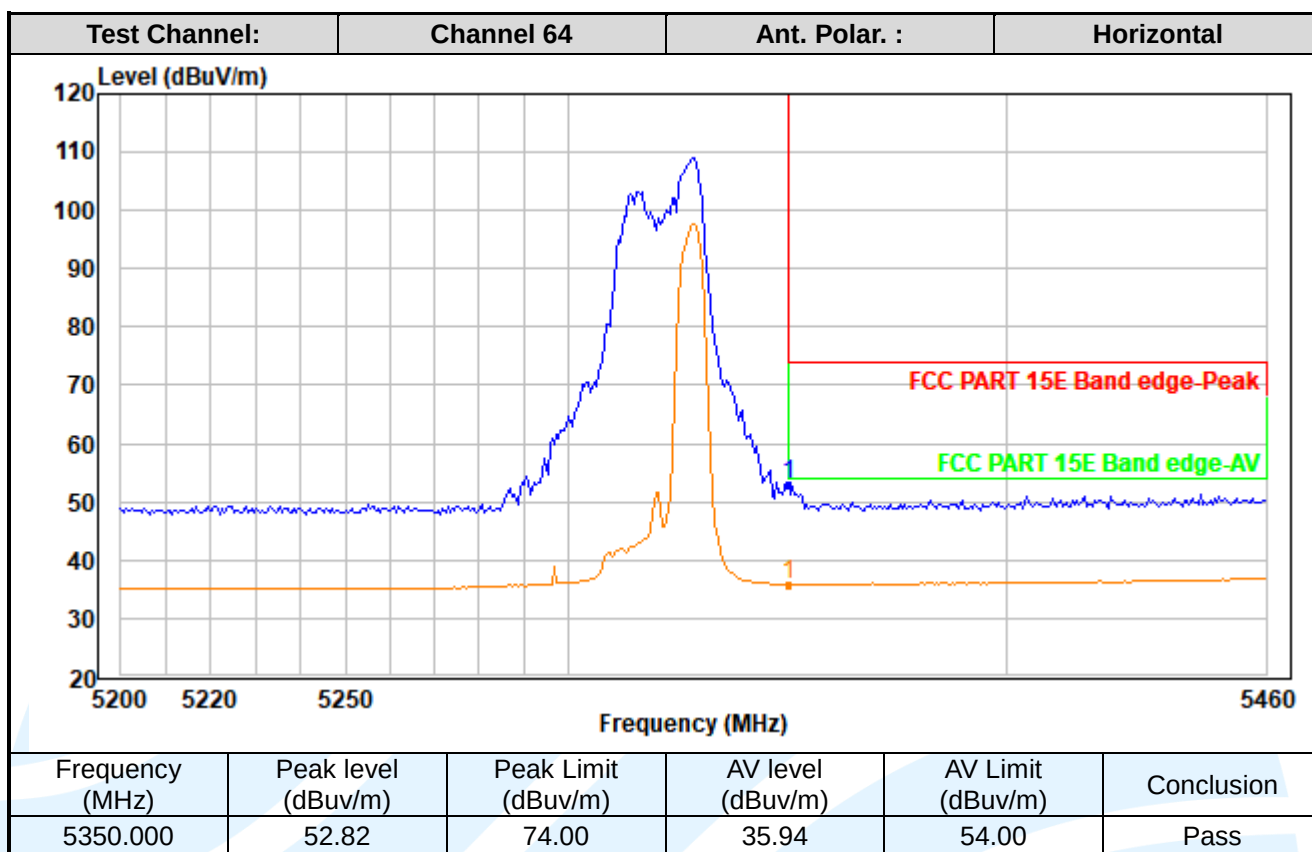
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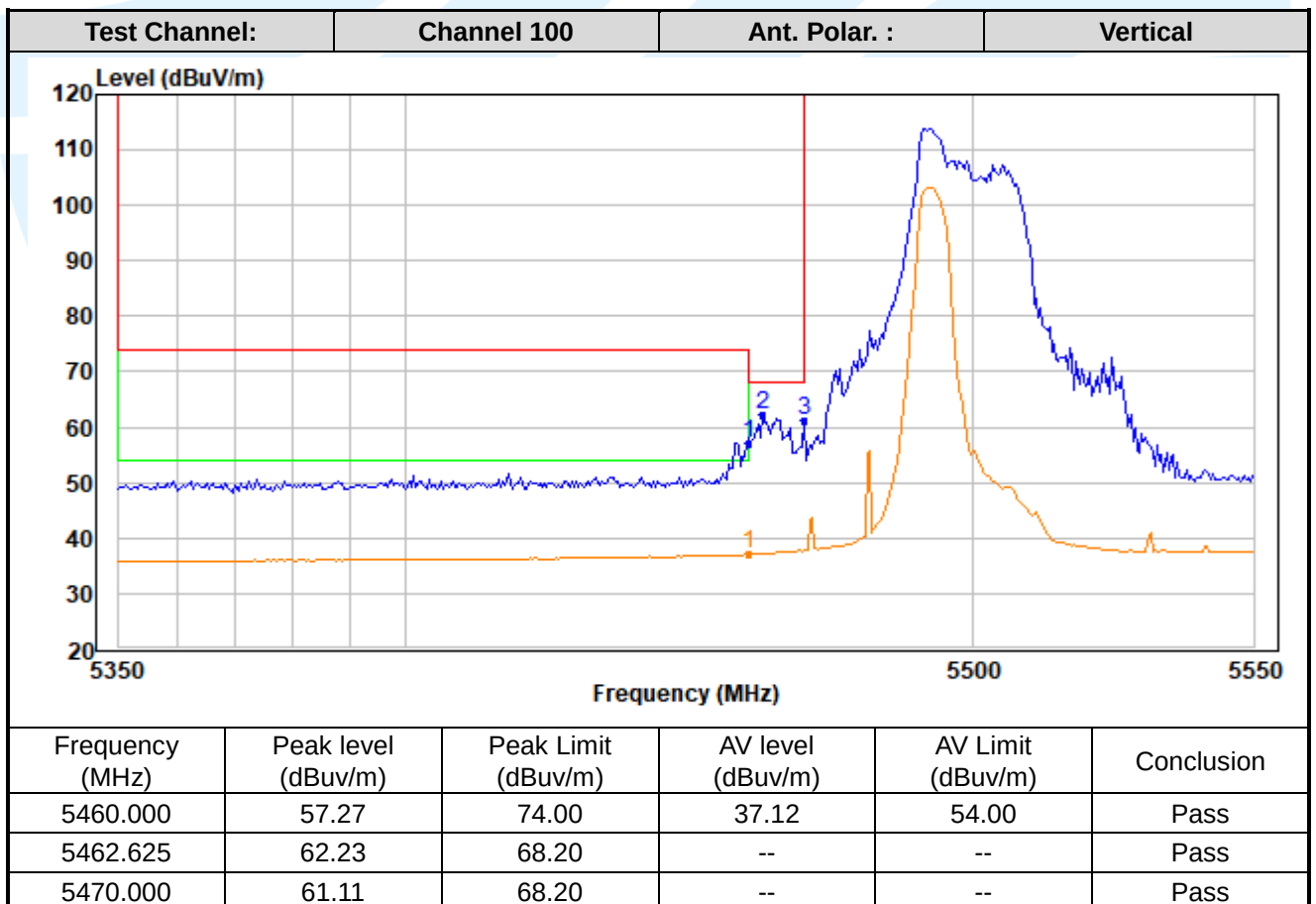
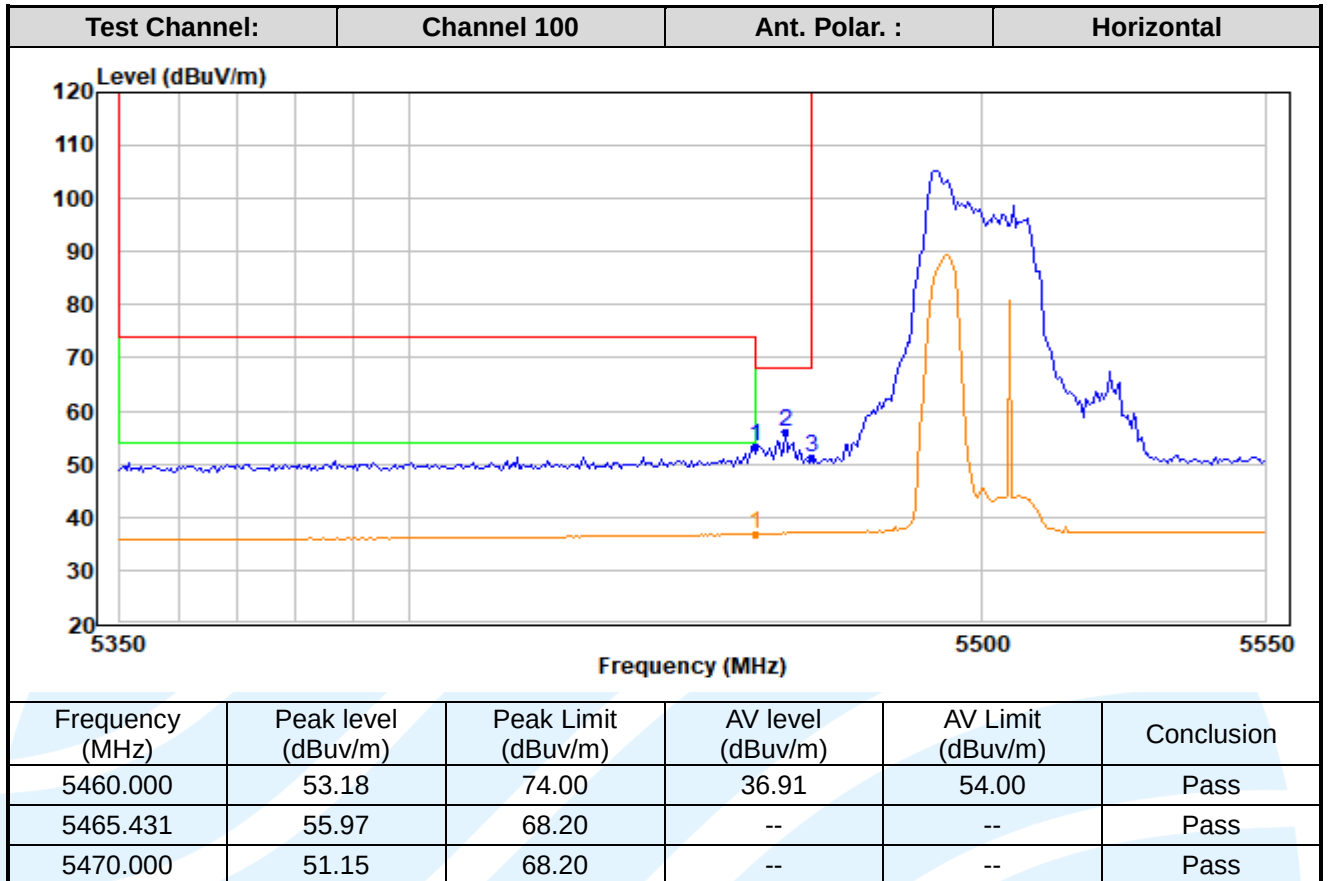
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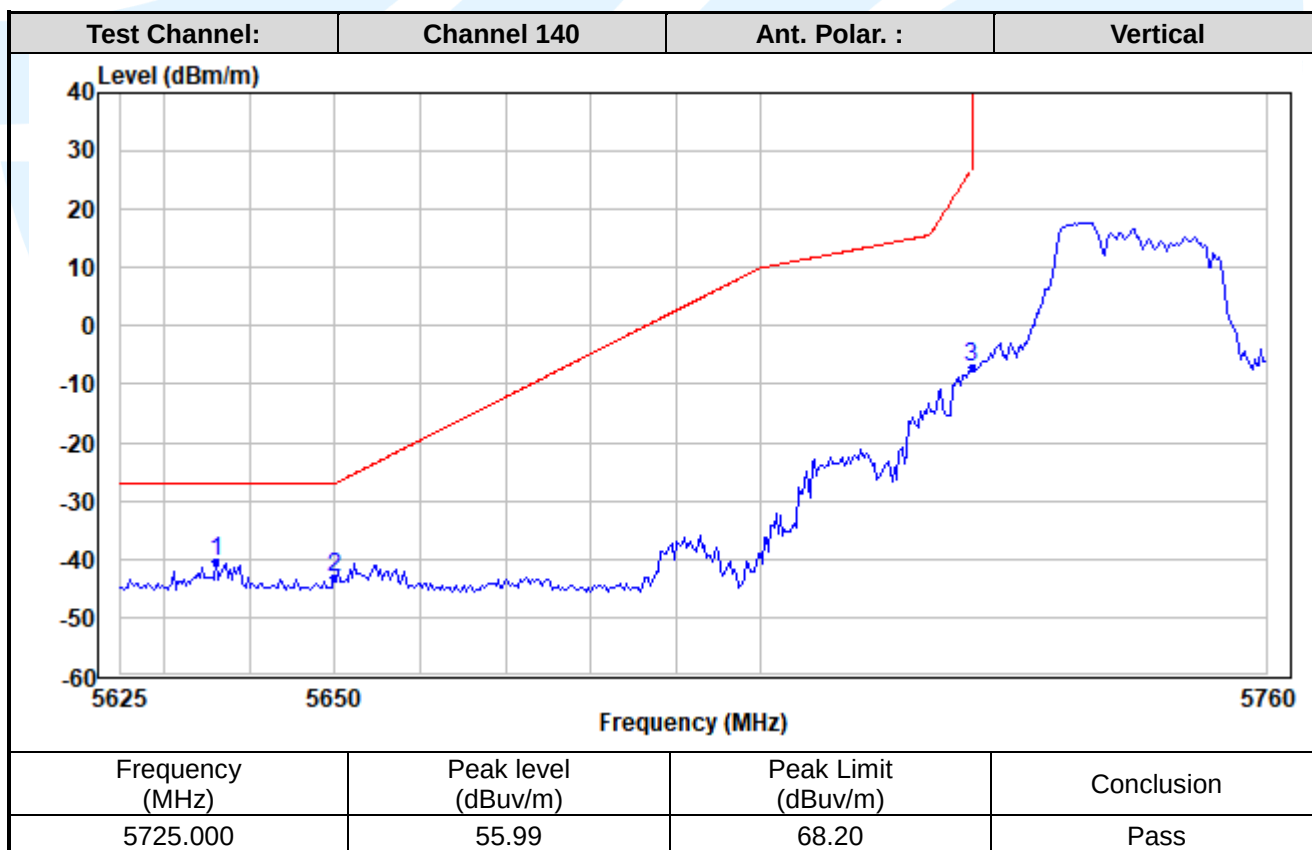
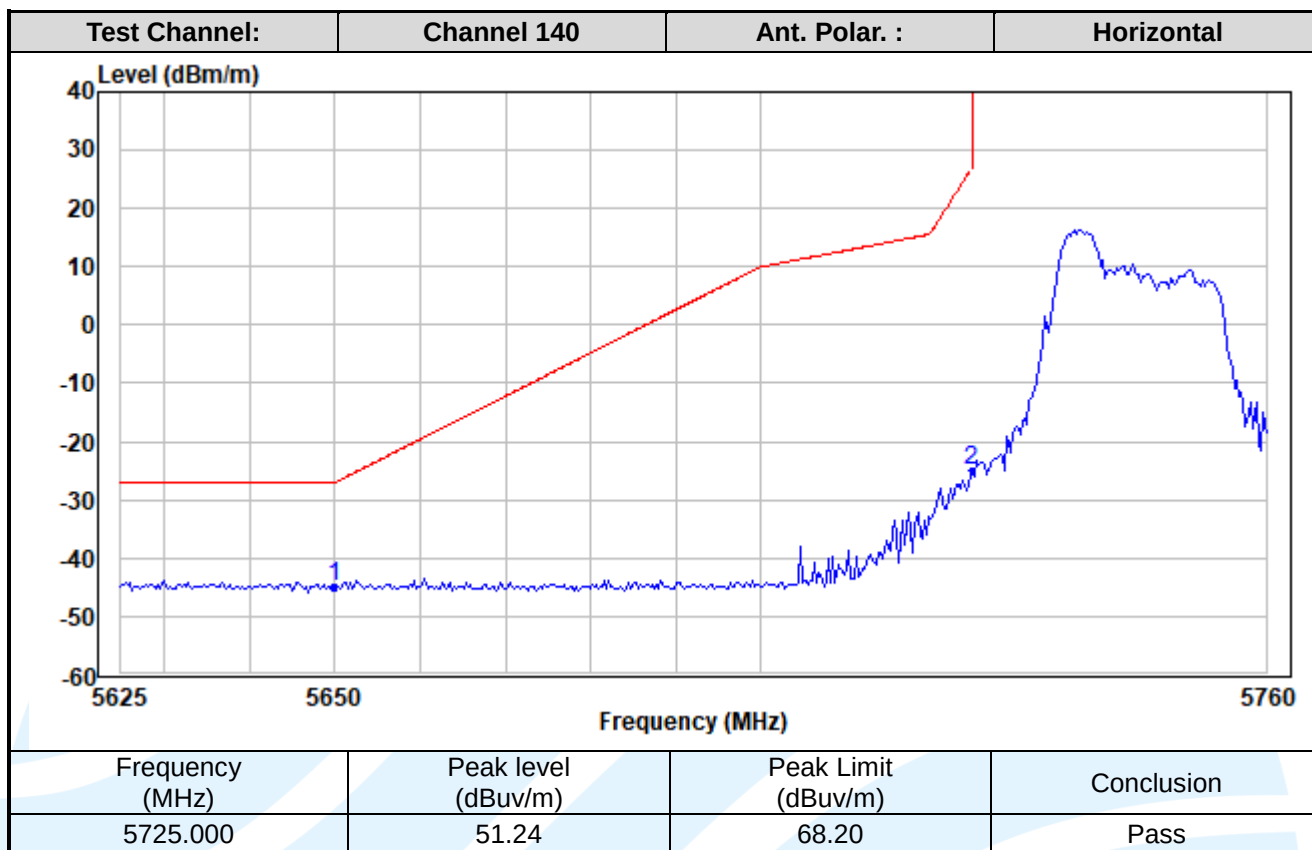
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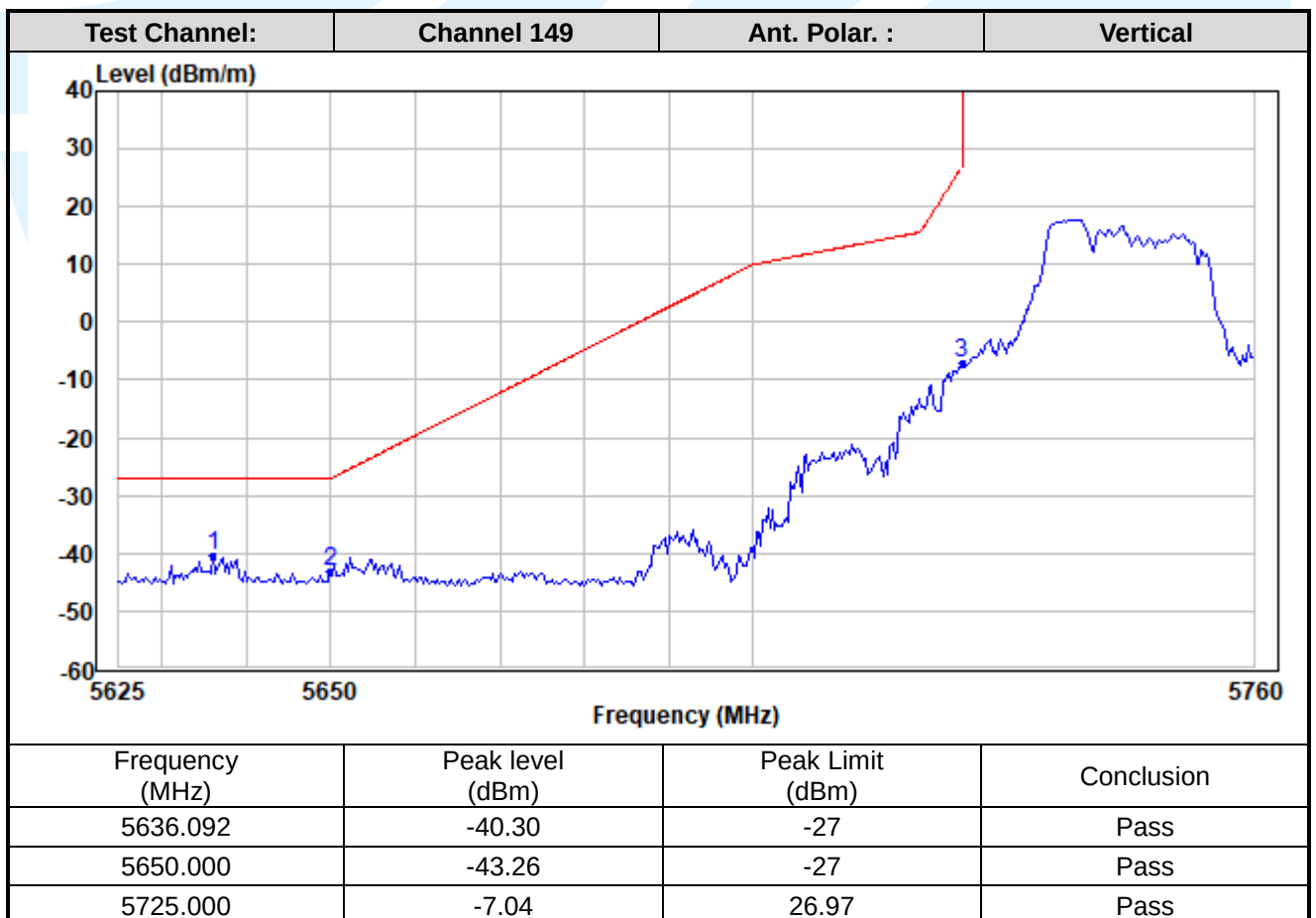
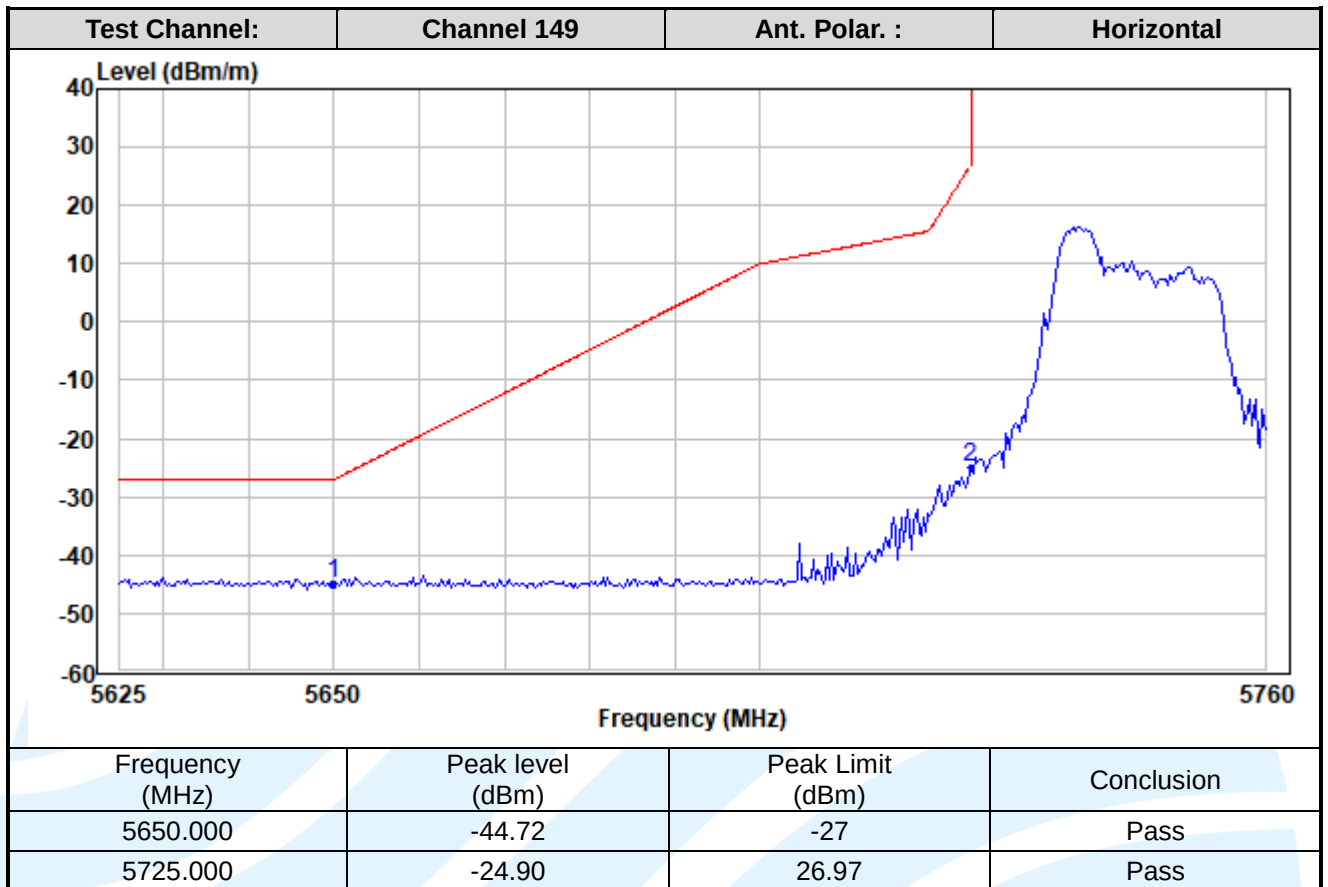
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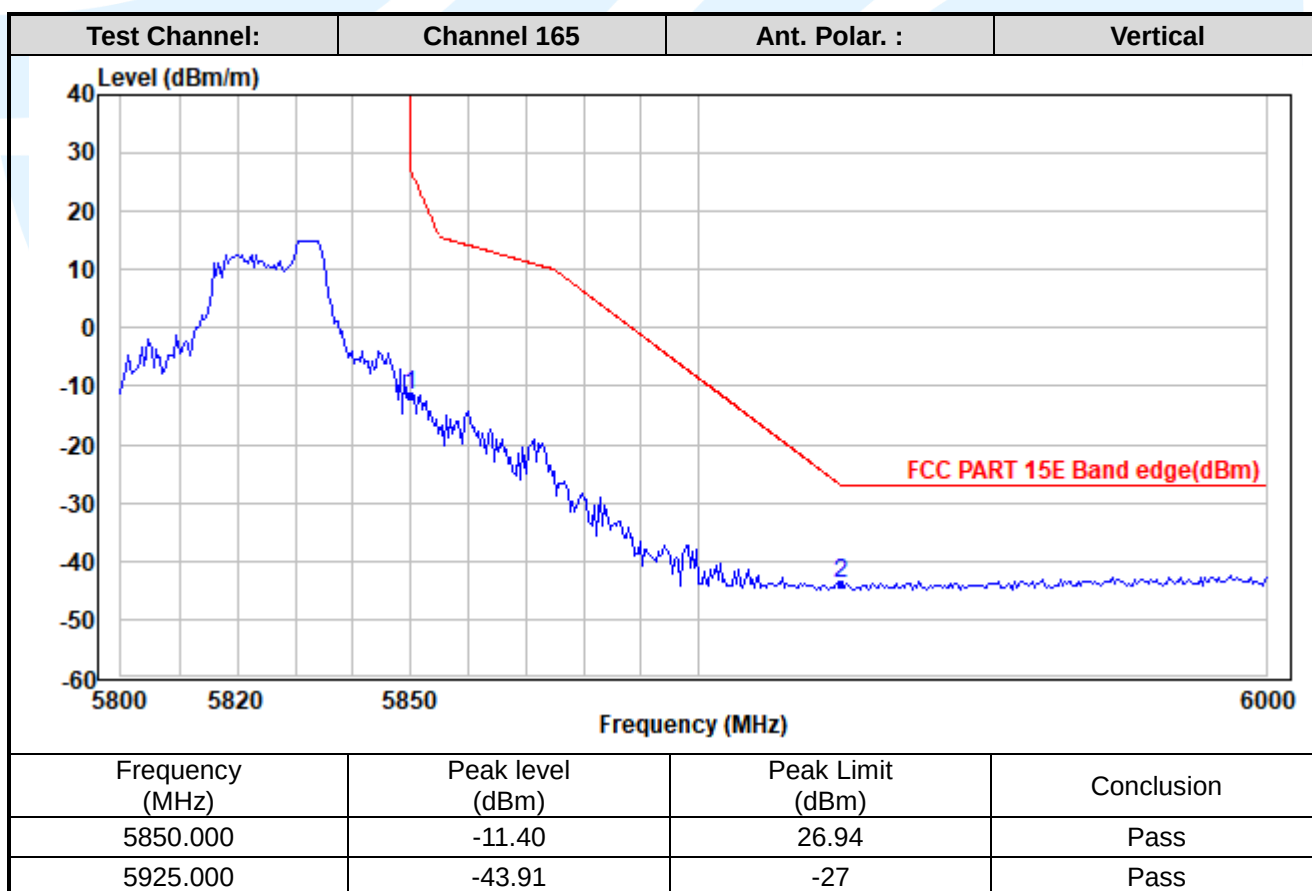
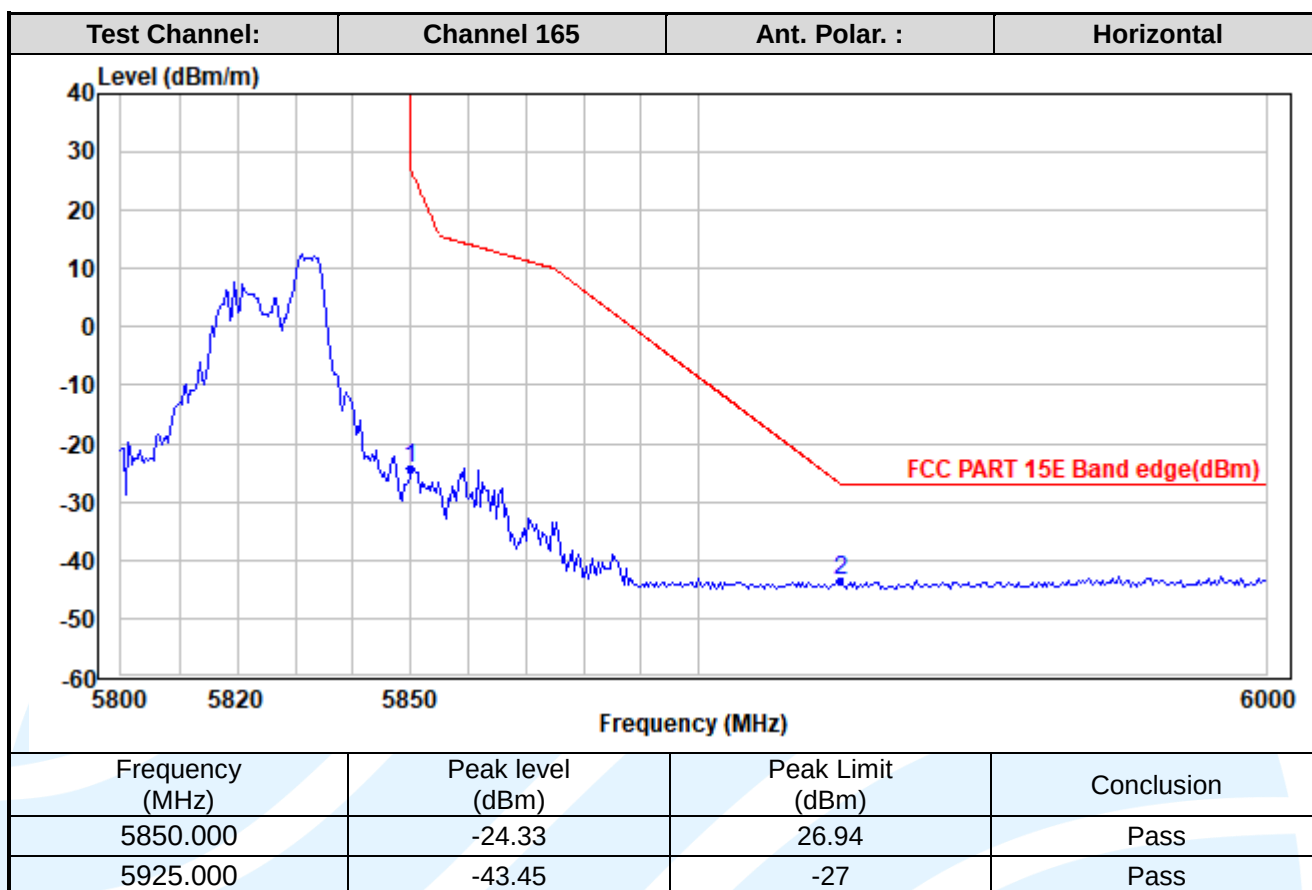
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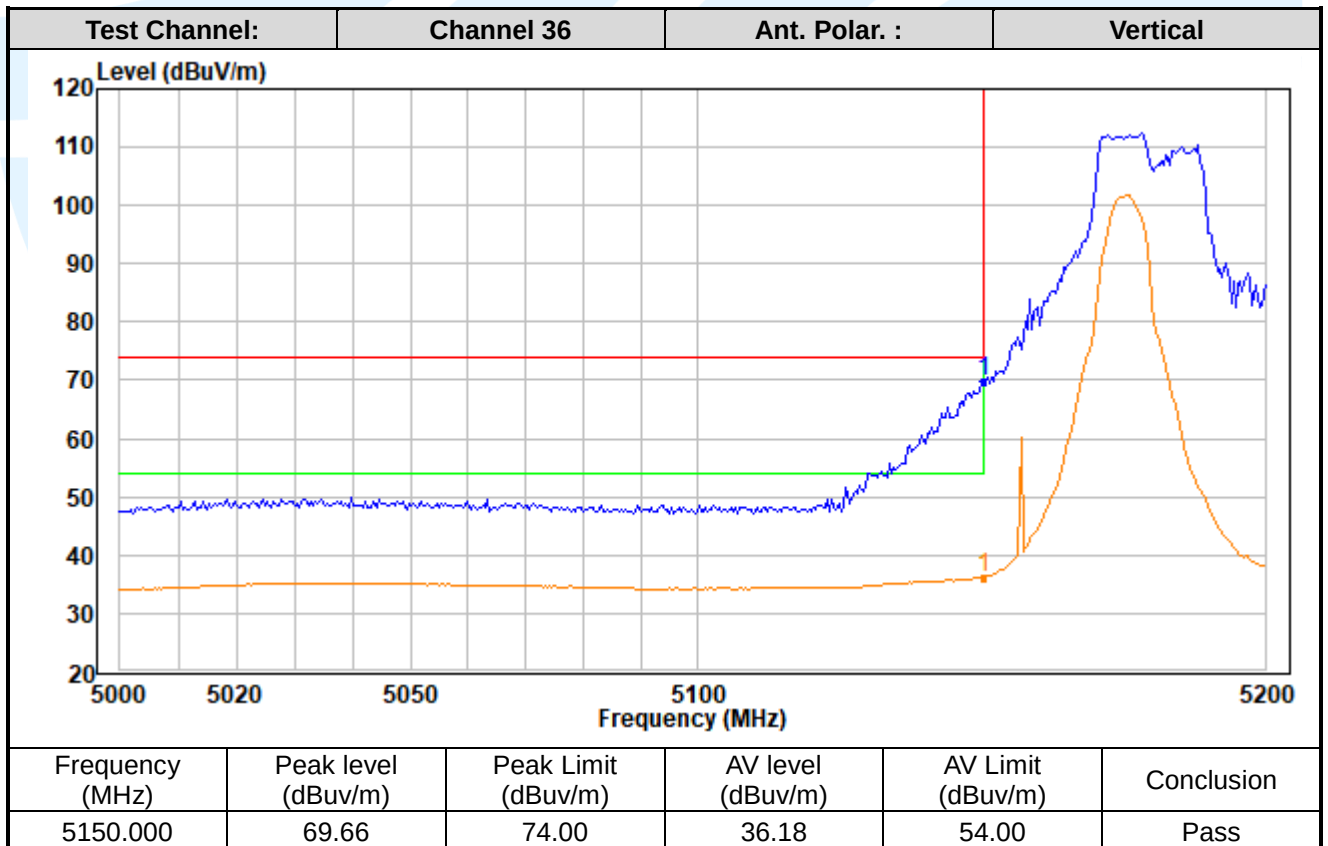
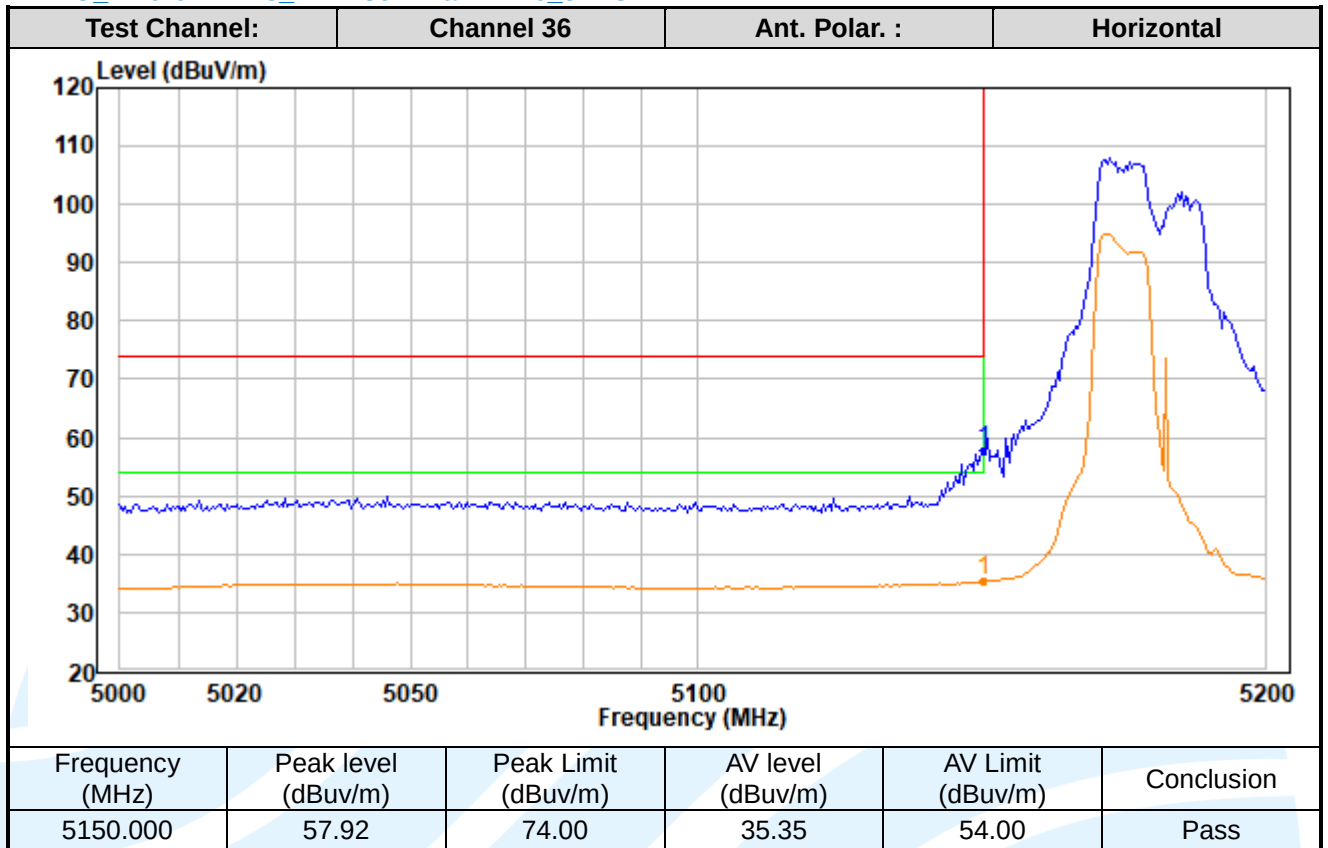
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