



Prüfbericht-Nr.: <i>Test report no.:</i>	CN23RJTZ (P15E-WiFi6G) 001	Auftrags-Nr.: <i>Order no.:</i>	48224548	Seite 1 von 34 Page 1 of 34
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-10-12	
Auftraggeber: <i>Client:</i>	medDV GmbH Rudolf-Diesel-Straße 10-12, 35463 Fernwald, Germany			
Prüfgegenstand: <i>Test item:</i>	Mobile Medical Assistant			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	NIDApad			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15E Test report (WiFi 6GHz)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart E Section 15.407			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-10-04			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003574313-017			
Prüfzeitraum: <i>Testing period:</i>	2023-10-26 - 2023-11-08			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2023-11-23		Ausstellungsdatum: <i>Issue date:</i>	2023-11-23
Stellung / Position:	David Huang Project Manager		Stellung / Position:	Brenda Chen Senior Project Manager
Sonstiges / Other:	Only RF output power, worst case of radiated spurious emissions, and mains conducted emission tests were evaluated in this report. For other test results, please refer to module report no.: RF201119E01-6.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.407(a)	Maximum e.i.r.p.	Pass
-	15.407(a)	Emission Bandwidth	Pass
-	15.407(g)	Frequency Stability	Pass
-	15.407(a)	Maximum Power Spectral Density (e.i.r.p.)	Pass
5.1.3	15.407(b)	Radiated Spurious Emissions	Pass
-	15.407(b)	In-Band Emissions (Channel Mask)	Pass
-	15.407(d)	Contention-Based Protocol	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note:

1. Refer to module report for the details.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2023-11-23

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart E Section 15.407
ANSI C63.10:2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 987594 D02 U-NII 6 GHz EMC Measurement v01r01
KDB 662911 D01 Multiple Transmitter Output v02r01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Mobile Medical Assistant. It contains a WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Mobile Medical Assistant
Type Identification	NIDApad
FCC ID	2AWKZ-QCNFA765

Technical Specification of EUT

Item	EUT information
Operating Frequency	Band 5: 5955 MHz ~ 6415 MHz Band 6: 6435 MHz ~ 6525 MHz Band 7: 6525 MHz ~ 6875 MHz Band 8: 6875 MHz ~ 7115 MHz
Channel Number	Band 5~8: 59 for 802.11a, 802.11ax HE20 29 for 802.11ax HE40 14 for 802.11ax HE80 7 for 802.11ax HE160
Data Rate	802.11a: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11ax: up to MCS11
Operation Voltage	7.2 Vdc (Battery) 12 Vdc (Adapter)
Modulation	OFDM/OFDMA : (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Maximum EIRP Output Power (dBm)	5955 ~ 6415 MHz: 21.66 6435 ~ 6525 MHz: 21.74 6525 ~ 6875 MHz: 21.74 6875 ~ 7115 MHz: 21.78
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

802.11a		802.11ax HE20		802.11ax HE40		802.11ax HE80		802.11ax HE160	
Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting	Channel	Power Setting
1	1.5	1	2.5	3	6	7	8	15	9.5
45	3	45	3	43	7	39	8.5	47	11
93	3	93	3.5	91	7	87	9.5	79	10.5
97	3	97	3	99	7	103	9.5	*111	10.5
105	1.5	105	3	107	6.5	*119	10	*111	10.5
113	3.5	113	5	*115	8	*119	10	143	11
117	3.5	117	5	*115	8	135	10.5	*175	11.5
149	2.5	149	2.5	123	8	151	8.5	*175	11.5
181	2.5	181	3	155	7	167	9	207	12
185*	3	185*	3	179	6.5	183*	9.5		
185*	3	185*	3	*187	7	183*	9.5		
189	3	189	3	*187	7	199	9.5		
209	4	209	4	195	7	215	10.5		
233	2.5	233	1.5	211	7.5				
				227	8				

*Note : Straddle Channel

<Partial RU>

802.11ax HE20								
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
1	26/0	-4	1	52/37	-3	1	106/53	-0.5
45	26/4	-2.5	45	52/38	-0.5	45	106/53	2.5
93	26/8	-4.5	93	52/40	-1.5	93	106/54	1.5
97	26/0	-6.5	97	52/37	-3	97	106/53	0.5
105	26/4	-3.5	105	52/38	-2.5	105	106/53	0
113	26/8	-1.5	113	52/40	-1	113	106/54	2.5
117	26/0	-2	117	52/37	-1	117	106/53	2.5
149	26/4	-3	149	52/38	-1.5	149	106/54	1.5
181	26/8	-4	181	52/40	-1	181	106/54	1.5
185*	26/8	-3.5	185*	52/40	-0.5	185*	106/54	2.5
185*	26/8	-3.5	185*	52/40	-0.5	185*	106/54	2.5
189	26/0	-4	189	52/37	-1.5	189	106/53	1.5
209	26/0	-2.5	209	52/37	0.5	209	106/53	3
233	26/8	-10	233	52/40	-7.5	233	106/54	-6.5

*Note : Straddle Channel

802.11ax HE20			802.11ax HE40					
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
1	242/61	3.5	3	26/9	-5	3	52/41	-2
45	242/61	5	43	26/17	-5.5	43	52/44	-3
93	242/61	4.5	91	26/17	-3.5	91	52/44	-0.5
97	242/61	4.5	99	26/9	-4.5	99	52/41	-2
105	242/61	4	107	26/17	-5.5	107	52/44	-3
113	242/61	6	*115	26/17	-3.5	*115	52/44	-1
117	242/61	6	*115	26/17	-3.5	*115	52/44	-1
149	242/61	4.5	123	26/9	-3	123	52/41	-1
181	242/61	5.5	155	26/9	-3	155	52/44	-0.5
185*	242/61	6	179	26/17	-3	179	52/44	-2.5
185*	242/61	6	*187	26/9	-3	*187	52/41	-0.5
189	242/61	6	*187	26/9	-3	*187	52/41	-0.5
209	242/61	6	195	26/9	-3	195	52/41	-0.5
233	242/61	-4	211	26/9	-2	211	52/41	1
			227	26/17	-1	227	52/44	1

*Note : Straddle Channel

802.11ax HE40								
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
3	106/55	1	3	242/61	3.5	3	484/65	6
43	106/56	0.5	43	242/62	4	43	484/65	6.5
91	106/56	2.5	91	242/62	5.5	91	484/65	7.5
99	106/55	1.5	99	242/61	4	99	484/65	6.5
107	106/56	0	107	242/62	4	107	484/65	6.5
*115	106/56	2	*115	242/62	6	*115	484/65	8
*115	106/56	2	*115	242/62	6	*115	484/65	8
123	106/55	1	123	242/61	5	123	484/65	8
155	106/56	3.5	155	242/62	5	155	484/65	8
179	106/56	2	179	242/62	4.5	179	484/65	8
*187	106/55	2.5	*187	242/62	6.5	*187	484/65	8
*187	106/55	2.5	*187	242/62	6.5	*187	484/65	8
195	106/55	2	195	242/62	6.5	195	484/65	8
211	106/55	3	211	242/62	3.5	211	484/65	7.5
227	106/56	5	227	242/62	8.5	227	484/65	11

*Note : Straddle Channel

802.11ax HE80			802.11ax HE160		
Channel	RU Config.	Power Setting	Channel	RU Config.	Power Setting
7	996/67	7	15	1992/68	12
39	996/67	7	47	1992/68	14
87	996/67	8.5	79	1992/68	14
103	996/67	7.5	*111	1992/68	14
*119	996/67	9	*111	1992/68	14
*119	996/67	9	143	1992/68	14.5
135	996/67	9	*175	1992/68	15.5
151	996/67	8	*175	1992/68	15.5
167	996/67	8.5	207	1992/68	15.5
183*	996/67	9			
183*	996/67	9			
199	996/67	9			
215	996/67	9.5			

*Note : Straddle Channel

4.2 Carrier Frequency and Channel

Band	Channel	Frequency (MHz)	802.11a 802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-5 (Band 5)	1	5955	V			
	3	5965		V		
	5	5975	V			
	7	5985			V	
	9	5995	V			
	11	6005		V		
	13	6015	V			
	15	6025				V
	17	6035	V			
	19	6045		V		
	21	6055	V			
	23	6065			V	
	25	6075	V			
	27	6085		V		
	29	6095	V			
	33	6115	V			
	35	6125		V		
	37	6135	V			
	39	6145			V	
	41	6155	V			
	43	6165		V		
	45	6175	V			
	47	6185				V
	49	6195	V			
	51	6205		V		
	53	6215	V			
	55	6225			V	
	57	6235	V			
	59	6245		V		
	61	6255	V			
	65	6275	V			
	67	6285		V		
	69	6295	V			
	71	6305			V	
	73	6315	V			
	75	6325		V		
	77	6335	V			
	79	6345				V
	81	6355	V			
	83	6365		V		
	85	6375	V			
	87	6385			V	

Band	Channel	Frequency (MHz)	802.11a 802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-5 (Band 5)	89	6395	V			
	91	6405		V		
	93	6415	V			
U-NII-6 (Band 6)	97	6435	V			
	99	6445		V		
	101	6455	V			
	103	6465			V	
	105	6475	V			
	107	6485		V		
	109	6495	V			
Straddle Channel	111	6505				V
	115	6525		V		
	119	6545			V	
U-NII-7 (Band 7)	117	6535	V			
	121	6555	V			
	123	6565		V		
	125	6575	V			
	129	6595	V			
	131	6605		V		
	133	6615	V			
	135	6625			V	
	137	6635	V			
	139	6645		V		
	141	6655	V			
	143	6665				V
	145	6675	V			
	147	6685		V		
	149	6695	V			
	151	6705			V	
	153	6715	V			
	155	6725		V		
	157	6735	V			
	161	6755	V			
	163	6765		V		
	165	6775	V			
	167	6785			V	
	169	6795	V			
	171	6805		V		
	173	6815	V			
	177	6835	V			
	179	6845		V		
	181	6855	V			
Straddle Channel	175	6825				V
	183	6865			V	
	185	6875	V			
	187	6885		V		

Band	Channel	Frequency (MHz)	802.11a 802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
U-NII-8 (Band 8)	189	6895	V			
	193	6915	V			
	195	6925		V		
	197	6935	V			
	199	6945			V	
	201	6955	V			
	203	6965		V		
	205	6975	V			
	207	6985				V
	209	6995	V			
	211	7005		V		
	213	7015	V			
	215	7025			V	
	217	7035	V			
	219	7045		V		
	221	7055	V			
	225	7075	V			
	227	7085		V		
	229	7095	V			
	233	7115	V			

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with an USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	QRCT
---------------	------

The samples were used as follows:
A003574313-017

Full test was applied on all test modes, but only worst case was shown.

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers.

Modulation Mode	Tx Function
802.11a	2TX (MIMO)
802.11ax HE20	2TX (MIMO)
802.11ax HE40	2TX (MIMO)
802.11ax HE80	2TX (MIMO)
802.11ax HE160	2TX (MIMO)

EUT Configure Mode	Applicable To				Description
	Output Power	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
- "-" means no effect.

Output Power

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5925-6425	1 to 93	1, 45, 93	6.0
-		6425-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7125	185 to 233	185, 189, 209, 233	
-	802.11ax HE20	5925-6425	1 to 93	1, 45, 93	NSS1 MCS0
-		6425-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7125	185 to 233	185, 189, 209, 233	
-	802.11ax HE40	5925-6425	3 to 91	3, 43, 91	NSS1 MCS0
-		6425-6525	99 to 115	99, 107, 115	
-		6525-6875	123 to 187	123, 155, 179, 187	
-		6875-7125	187 to 227	187, 195, 211, 227	
-	802.11ax HE80	5925-6425	7 to 87	7, 39, 87	NSS1 MCS0
-		6425-6525	103 to 119	103, 119	
-		6525-6875	135 to 183	135, 151, 167, 183	
-		6875-7125	183 to 215	183, 199, 215	
-	802.11ax HE160	5925-6425	15 to 79	15, 47, 79	NSS1 MCS0
-		6425-6525	111	111	
-		6525-6875	143 to 175	143, 175	
-		6875-7125	207	207	
-	802.11ax HE20 (RU26 / RU52 / RU106 / RU242)	5925-6425	1 to 93	1, 45, 93	NSS1 MCS0
-		6425-6525	97 to 113	97, 105, 113	
-		6525-6875	117 to 185	117, 149, 181, 185	
-		6875-7125	185 to 233	185, 189, 209, 233	
-	802.11ax HE40 (RU26 / RU52 / RU106 / RU242 / RU484)	5925-6425	3 to 91	3, 43, 91	NSS1 MCS0
-		6425-6525	99 to 115	99, 107, 115	
-		6525-6875	123 to 187	123, 155, 179, 187	
-		6875-7125	187 to 227	187, 195, 211, 227	
-	802.11ax HE80 (RU996)	5925-6425	7 to 87	7, 39, 87	NSS1 MCS0
-		6425-6525	103 to 119	103, 119	
-		6525-6875	135 to 183	135, 151, 167, 183	
-		6875-7125	183 to 215	183, 199, 215	
-	802.11ax HE160 (RU1992)	5925-6425	15 to 79	15, 47, 79	NSS1 MCS0
-		6425-6525	111	111	
-		6525-6875	143 to 175	143, 175	
-		6875-7125	207	207	

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11a	5925-6425	1 to 93	93	6.0
-		6425-6525	97 to 113	113	
-		6525-6875	117 to 185	181	
-		6875-7125	185 to 233	209	
-	802.11ax HE20	5925-6425	1 to 93	1	NSS1 MCS0
-		6425-6525	97 to 113	113	
-		6525-6875	117 to 185	181	
-		6875-7125	185 to 233	185	
-	802.11ax HE40	5925-6425	3 to 91	3	NSS1 MCS0
-		6425-6525	99 to 115	99	
-		6525-6875	123 to 187	179	
-		6875-7125	187 to 227	187	
-	802.11ax HE80	5925-6425	7 to 87	7	NSS1 MCS0
-		6425-6525	103 to 119	103	
-		6525-6875	135 to 183	151	
-		6875-7125	183 to 215	199	
-	802.11ax HE160	5925-6425	15 to 79	79	NSS1 MCS0
-		6425-6525	111	111	
-		6525-6875	143 to 175	143	
-		6875-7125	207	207	
-	802.11ax HE20_RU26	5925-6425	1 to 93	1	NSS1 MCS0
-		6875-7125	185 to 233	233	

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20	6875-7125	185 to 233	233	NSS1 MCS0

Mains Conducted Emission Test

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency (MHz)	Available Channel	Tested Channel	Date Rate (Mbps)
-	802.11ax HE20	6875-7125	185 to 233	233	NSS1 MCS0

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	24.3-25.2 °C	53-60 %	Andy Chen
Radiated Spurious Emissions above 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
Radiated Spurious Emissions below 1 GHz	22.6-24.5 °C	52-54 %	Ray Huang
Mains Conducted Emission	19.1-25.9 °C	50.2-58.9 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

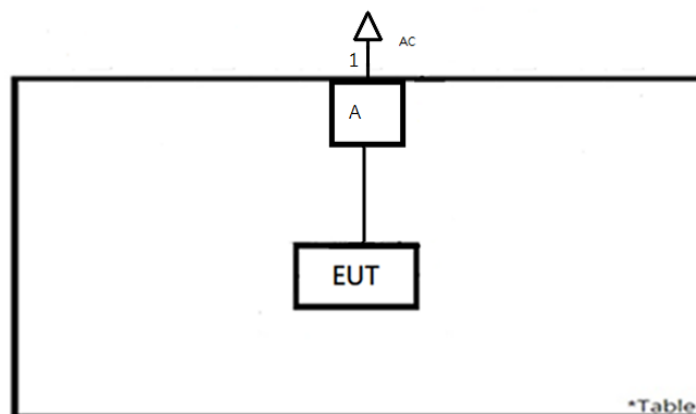
No.	Product	Brand	Model	Description
B	Adapter	FSP	FSP096-AHAN3	I/P: 100-240 Vac, 1.8 A O/P: 12 Vdc, 8 A
-	Battery	medDV	OPM-P05T-C1	7.2 Vdc, 4545 mAh

Support Unit

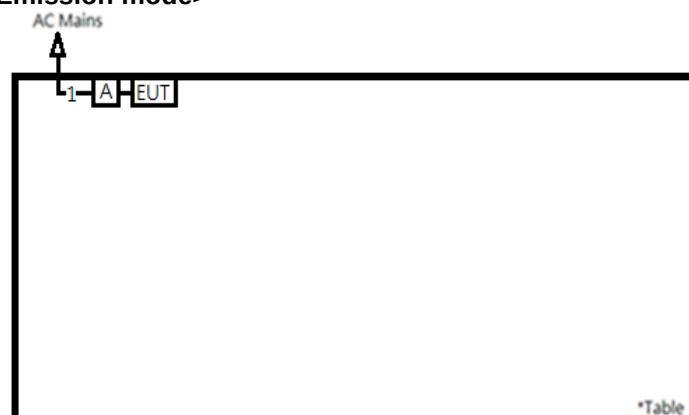
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	Power cord	Onyx Healthcare	N/A	N/A	NO	NO	180	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

The gain value is derived from Antenna datasheet, the EUT's antenna specifications are described as According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Antenna	Antenna Type	Antenna Gain (dBi)
1	PIFA	2.46
2	PIFA	2.70

Refer to EUT photo for details.

5.1.2 Maximum e.i.r.p.

Limit

Frequency Band	EUT Category	Limit
5.925 ~ 7.125 GHz	Indoor Access Point	The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power AP & Fixed Client Device	The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, 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).
5.925 ~ 7.125 GHz	Subordinate Device	Operating under the control of an indoor access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
5.925 ~ 6.425 GHz 6.525 ~ 6.875 GHz	Standard Power Client Devices	Except for fixed client devices, operating under the control of a standard power access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
5.925 ~ 7.125 GHz	Indoor Client Devices	Operating under the control of an indoor access point: The maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2023/03/17	2024/03/16	2023/10/26	2023/10/26
Power Sensor	Anritsu	MA2411B	1725269	2023/03/17	2024/03/16	2023/10/26	2023/10/26

Test Procedures

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 and set the detector to AVERAGE. Duty factor is not added to measured value.

Test Result
For U-NII-5 to U-NII-8
<802.11a>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)		
1	5955	1.14	2.40	4.83	3.04	10.19	24.00
45	6175	1.01	2.24	4.68	2.94	10.04	24.00
93	6415	1.56	2.86	5.27	3.36	10.63	24.00
97	6435	1.61	3.20	5.49	3.54	10.85	24.00
105	6475	1.40	1.56	4.49	2.81	9.85	24.00
113	6515	0.63	2.39	4.61	2.89	9.97	24.00
117	6535	0.55	2.24	4.49	2.81	9.85	24.00
149	6695	0.94	2.01	4.52	2.83	9.88	24.00
181	6855	0.94	2.12	4.58	2.87	9.94	24.00
*185	6875	1.96	2.61	5.31	3.39	10.67	24.00
*185	6875	1.96	2.61	5.31	3.39	10.67	24.00
189	6895	1.73	2.66	5.23	3.33	10.59	24.00
209	6995	0.58	2.57	4.70	2.95	10.06	24.00
233	7115	1.43	2.61	5.07	3.21	10.43	24.00

*Note : Straddle Channel

<802.11ax HE20>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)		
1	5955	2.45	3.51	6.02	4.00	11.38	24.00
45	6175	1.33	2.68	5.07	3.21	10.43	24.00
93	6415	2.50	3.57	6.08	4.05	11.44	24.00
97	6435	2.12	3.68	5.98	3.96	11.34	24.00
105	6475	2.88	3.96	6.46	4.43	11.82	24.00
113	6515	3.57	3.70	6.65	4.62	12.01	24.00
117	6535	3.75	3.92	6.85	4.84	12.21	24.00
149	6695	1.92	2.71	5.34	3.42	10.70	24.00
181	6855	2.03	3.06	5.59	3.62	10.95	24.00
*185	6875	1.97	3.24	5.66	3.68	11.02	24.00
*185	6875	1.97	3.24	5.66	3.68	11.02	24.00
189	6895	2.45	3.18	5.84	3.84	11.20	24.00
209	6995	1.55	3.23	5.48	3.53	10.84	24.00
233	7115	-1.77	0.89	2.77	1.89	8.13	24.00

*Note : Straddle Channel

<802.11ax HE40>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)		
3	5965	4.44	6.08	8.35	6.83	13.71	24.00
43	6165	5.48	6.95	9.29	8.49	14.65	24.00
91	6405	5.12	6.93	9.13	8.18	14.49	24.00
99	6445	5.54	7.73	9.78	9.51	15.14	24.00
107	6485	5.44	7.43	9.56	9.03	14.92	24.00
*115	6525	6.11	7.13	9.66	9.25	15.02	24.00
*115	6525	6.11	7.13	9.66	9.25	15.02	24.00
123	6565	5.91	7.48	9.78	9.50	15.14	24.00
155	6725	6.22	5.80	9.03	7.99	14.39	24.00
179	6845	5.51	6.09	8.82	7.62	14.18	24.00
*187	6885	6.15	6.32	9.25	8.41	14.61	24.00
*187	6885	6.15	6.32	9.25	8.41	14.61	24.00
195	6925	5.75	6.89	9.37	8.64	14.73	24.00
211	7005	6.42	5.44	8.97	7.88	14.33	24.00
227	7085	6.68	6.51	9.61	9.13	14.97	24.00

*Note : Straddle Channel

<802.11ax HE80>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)		
7	5985	8.08	8.77	11.45	13.96	16.81	24.00
39	6145	8.57	8.73	11.66	14.66	17.02	24.00
87	6385	8.13	9.39	11.82	15.19	17.18	24.00
103	6465	9.03	10.15	12.64	18.35	18.00	24.00
*119	6545	8.56	8.79	11.69	14.75	17.05	24.00
*119	6545	8.56	8.79	11.69	14.75	17.05	24.00
135	6625	8.74	9.03	11.90	15.48	17.26	24.00
151	6705	7.65	8.29	10.99	12.57	16.35	24.00
167	6785	8.49	7.99	11.26	13.36	16.62	24.00
*183	6865	8.62	7.48	11.10	12.88	16.46	24.00
*183	6865	8.62	7.48	11.10	12.88	16.46	24.00
199	6945	7.81	8.84	11.37	13.70	16.73	24.00
215	7025	8.14	8.71	11.44	13.95	16.80	24.00

*Note : Straddle Channel

<802.11ax HE160>

Channel	Channel Frequency (MHz)	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
		Ant 1	Ant 2	(dBm)	(mW)		
15	6025	10.19	10.33	13.27	21.24	18.63	24.00
47	6185	9.44	10.39	12.95	19.73	18.31	24.00
79	6345	9.04	10.76	12.99	19.93	18.35	24.00
*111	6505	9.98	10.51	13.26	21.20	18.62	24.00
*111	6505	9.98	10.51	13.26	21.20	18.62	24.00
143	6665	10.07	10.41	13.25	21.15	18.61	24.00
*175	6825	10.20	9.55	12.90	19.49	18.26	24.00
*175	6825	10.20	9.55	12.90	19.49	18.26	24.00
207	6985	9.58	10.06	12.84	19.22	18.20	24.00

*Note : Straddle Channel

<802.11ax HE20_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)		
1	5955	26/0	-4.27	-3.99	-1.12	0.77	4.24	24.00
45	6175	26/4	-5.09	-3.16	-1.01	0.79	4.35	24.00
93	6415	26/8	-5.04	-4.06	-1.51	0.71	3.85	24.00
97	6435	26/0	-5.03	-4.59	-1.79	0.66	3.57	24.00
105	6475	26/4	-4.31	-3.40	-0.82	0.83	4.54	24.00
113	6515	26/8	-5.88	-3.22	-1.34	0.73	4.02	24.00
117	6535	26/0	-5.00	-3.68	-1.28	0.74	4.08	24.00
149	6695	26/4	-4.55	-3.12	-0.77	0.84	4.59	24.00
181	6855	26/8	-4.82	-4.11	-1.44	0.72	3.92	24.00
*185	6875	26/8	-5.15	-4.44	-1.77	0.67	3.59	24.00
*185	6875	26/8	-5.15	-4.44	-1.77	0.67	3.59	24.00
189	6895	26/0	-5.50	-4.19	-1.79	0.66	3.57	24.00
209	6995	26/0	-4.86	-4.01	-1.40	0.72	3.96	24.00
233	7115	26/8	-14.89	-12.05	-10.23	0.09	-4.87	24.00
1	5955	52/37	-2.45	-1.04	1.32	1.36	6.68	24.00
45	6175	52/38	-2.76	-1.27	1.06	1.28	6.42	24.00
93	6415	52/40	-2.92	-1.28	0.99	1.26	6.35	24.00
97	6435	52/37	-2.69	-1.85	0.76	1.19	6.12	24.00
105	6475	52/38	-3.11	-1.18	0.97	1.25	6.33	24.00
113	6515	52/40	-2.17	-1.88	0.99	1.26	6.35	24.00
117	6535	52/37	-2.39	-2.02	0.81	1.20	6.17	24.00
149	6695	52/38	-3.28	-1.44	0.75	1.19	6.11	24.00
181	6855	52/40	-2.51	-1.38	1.10	1.29	6.46	24.00
*185	6875	52/40	-2.30	-1.92	0.90	1.23	6.26	24.00
*185	6875	52/40	-2.30	-1.92	0.90	1.23	6.26	24.00
189	6895	52/37	-2.20	-2.02	0.90	1.23	6.26	24.00
209	6995	52/37	-2.43	-1.90	0.85	1.22	6.21	24.00
233	7115	52/40	-12.43	-8.67	-7.14	0.19	-1.78	24.00
1	5955	106/53	0.48	0.81	3.66	2.32	9.02	24.00
45	6175	106/53	1.05	1.88	4.50	2.82	9.86	24.00
93	6415	106/54	-0.12	1.72	3.91	2.46	9.27	24.00
97	6435	106/53	0.02	1.65	3.92	2.47	9.28	24.00
105	6475	106/53	0.58	1.68	4.18	2.62	9.54	24.00
113	6515	106/54	0.83	1.54	4.21	2.64	9.57	24.00
117	6535	106/53	1.08	1.44	4.27	2.68	9.63	24.00
149	6695	106/54	0.69	1.34	4.04	2.53	9.40	24.00
181	6855	106/54	0.98	1.14	4.07	2.55	9.43	24.00
*185	6875	106/54	0.69	1.02	3.87	2.44	9.23	24.00
*185	6875	106/54	0.69	1.02	3.87	2.44	9.23	24.00
189	6895	106/53	0.82	0.94	3.89	2.45	9.25	24.00
209	6995	106/53	1.05	1.34	4.21	2.63	9.57	24.00
233	7115	106/54	-9.98	-8.39	-6.10	0.25	-0.74	24.00

*Note : Straddle Channel

<802.11ax HE20_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Ant 1	Ant 2	(dBm)	(mW)		
1	5955	242/61	4.38	4.96	7.69	5.87	13.05	24.00
45	6175	242/61	3.39	5.20	7.40	5.49	12.76	24.00
93	6415	242/61	4.06	4.94	7.53	5.67	12.89	24.00
97	6435	242/61	4.12	5.54	7.90	6.16	13.26	24.00
105	6475	242/61	4.66	5.70	8.22	6.64	13.58	24.00
113	6515	242/61	4.37	4.55	7.47	5.59	12.83	24.00
117	6535	242/61	4.74	4.93	7.85	6.09	13.21	24.00
149	6695	242/61	4.01	4.92	7.50	5.62	12.86	24.00
181	6855	242/61	4.31	5.05	7.71	5.90	13.07	24.00
*185	6875	242/61	4.54	5.29	7.94	6.23	13.30	24.00
*185	6875	242/61	4.54	5.29	7.94	6.23	13.30	24.00
189	6895	242/61	4.67	5.20	7.95	6.24	13.31	24.00
209	6995	242/61	4.63	4.73	7.69	5.88	13.05	24.00
233	7115	242/61	-7.40	-5.29	-3.21	0.48	2.15	24.00

*Note : Straddle Channel

<802.11ax HE40_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	(dBm)	(mW)		
3	5965	26/9	-5.06	-4.00	-1.49	0.71	3.87	24.00
43	6165	26/17	-4.59	-4.51	-1.54	0.70	3.82	24.00
91	6405	26/17	-4.80	-4.10	-1.43	0.72	3.93	24.00
99	6445	26/9	-4.91	-3.98	-1.41	0.72	3.95	24.00
107	6485	26/17	-6.17	-3.67	-1.73	0.67	3.63	24.00
*115	6525	26/17	-6.79	-3.34	-1.72	0.67	3.64	24.00
*115	6525	26/17	-6.79	-3.34	-1.72	0.67	3.64	24.00
123	6565	26/9	-6.00	-4.14	-1.96	0.64	3.40	24.00
155	6725	26/9	-4.91	-4.62	-1.75	0.67	3.61	24.00
179	6845	26/17	-4.81	-4.26	-1.52	0.71	3.84	24.00
*187	6885	26/9	-4.31	-4.14	-1.21	0.76	4.15	24.00
*187	6885	26/9	-4.31	-4.14	-1.21	0.76	4.15	24.00
195	6925	26/9	-4.27	-4.21	-1.23	0.75	4.13	24.00
211	7005	26/9	-4.88	-3.82	-1.31	0.74	4.05	24.00
227	7085	26/17	-4.86	-2.86	-0.74	0.84	4.62	24.00

*Note : Straddle Channel

<802.11ax HE40_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	(dBm)	(mW)		
3	5965	52/41	-1.59	-1.44	1.50	1.41	6.86	24.00
43	6165	52/44	-2.06	-1.87	1.05	1.27	6.41	24.00
91	6405	52/44	-1.60	-1.11	1.66	1.47	7.02	24.00
99	6445	52/41	-2.13	-1.67	1.12	1.29	6.48	24.00
107	6485	52/44	-1.82	-1.44	1.38	1.38	6.74	24.00
*115	6525	52/44	-2.22	-1.96	0.92	1.24	6.28	24.00
*115	6525	52/44	-2.22	-1.96	0.92	1.24	6.28	24.00
123	6565	52/41	-2.32	-1.76	0.98	1.25	6.34	24.00
155	6725	52/44	-2.46	-1.76	0.91	1.23	6.27	24.00
179	6845	52/44	-3.96	-0.79	0.92	1.24	6.28	24.00
*187	6885	52/41	-2.98	-1.56	0.80	1.20	6.16	24.00
*187	6885	52/41	-2.98	-1.56	0.80	1.20	6.16	24.00
195	6925	52/41	-2.35	-2.12	0.78	1.20	6.14	24.00
211	7005	52/41	-1.69	-0.93	1.72	1.48	7.08	24.00
227	7085	52/44	-1.28	-0.38	2.20	1.66	7.56	24.00
3	5965	106/55	0.93	1.74	4.36	2.73	9.72	24.00
43	6165	106/56	-0.21	2.27	4.21	2.64	9.57	24.00
91	6405	106/56	1.27	1.75	4.53	2.84	9.89	24.00
99	6445	106/55	0.63	1.94	4.34	2.72	9.70	24.00
107	6485	106/56	0.50	1.42	3.99	2.51	9.35	24.00
*115	6525	106/56	1.09	1.54	4.33	2.71	9.69	24.00
*115	6525	106/56	1.09	1.54	4.33	2.71	9.69	24.00
123	6565	106/55	0.60	1.38	4.02	2.52	9.38	24.00
155	6725	106/56	0.91	1.57	4.26	2.67	9.62	24.00
179	6845	106/56	-0.09	2.27	4.26	2.67	9.62	24.00
*187	6885	106/55	0.26	1.74	4.07	2.55	9.43	24.00
*187	6885	106/55	0.26	1.74	4.07	2.55	9.43	24.00
195	6925	106/55	0.66	1.40	4.06	2.54	9.42	24.00
211	7005	106/55	1.64	1.88	4.77	3.00	10.13	24.00
227	7085	106/56	2.14	2.90	5.55	3.59	10.91	24.00
3	5965	242/61	4.84	5.32	8.10	6.45	13.46	24.00
43	6165	242/62	4.51	4.80	7.67	5.84	13.03	24.00
91	6405	242/62	4.64	5.12	7.90	6.16	13.26	24.00
99	6445	242/61	3.74	5.67	7.82	6.06	13.18	24.00
107	6485	242/62	4.40	5.73	8.13	6.50	13.49	24.00
*115	6525	242/62	4.60	5.35	8.00	6.31	13.36	24.00
*115	6525	242/62	4.60	5.35	8.00	6.31	13.36	24.00
123	6565	242/61	4.43	4.93	7.70	5.89	13.06	24.00
155	6725	242/62	4.47	4.76	7.63	5.79	12.99	24.00
179	6845	242/62	4.25	4.52	7.40	5.49	12.76	24.00
*187	6885	242/62	3.93	5.49	7.79	6.01	13.15	24.00
*187	6885	242/62	3.93	5.49	7.79	6.01	13.15	24.00
195	6925	242/62	4.64	4.89	7.78	5.99	13.14	24.00
211	7005	242/62	4.51	5.89	8.26	6.71	13.62	24.00
227	7085	242/62	5.66	6.32	9.01	7.97	14.37	24.00

*Note : Straddle Channel

<802.11ax HE40_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	(dBm)	(mW)		
3	5965	484/65	7.38	7.59	10.50	11.21	15.86	24.00
43	6165	484/65	7.04	7.75	10.42	11.01	15.78	24.00
91	6405	484/65	7.02	7.74	10.41	10.98	15.77	24.00
99	6445	484/65	6.79	7.70	10.28	10.66	15.64	24.00
107	6485	484/65	7.04	7.65	10.37	10.88	15.73	24.00
*115	6525	484/65	6.83	6.94	9.90	9.76	15.26	24.00
*115	6525	484/65	6.83	6.94	9.90	9.76	15.26	24.00
123	6565	484/65	6.82	7.28	10.07	10.15	15.43	24.00
155	6725	484/65	7.48	7.61	10.56	11.37	15.92	24.00
179	6845	484/65	6.86	7.74	10.33	10.80	15.69	24.00
*187	6885	484/65	6.64	7.90	10.33	10.78	15.69	24.00
*187	6885	484/65	6.64	7.90	10.33	10.78	15.69	24.00
195	6925	484/65	7.01	7.65	10.35	10.84	15.71	24.00
211	7005	484/65	6.29	6.42	9.37	8.64	14.73	24.00
227	7085	484/65	8.83	9.75	12.32	17.08	17.68	24.00

*Note : Straddle Channel

<802.11ax HE80_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	(dBm)	(mW)		
7	5985	996/67	7.64	7.83	10.75	11.88	16.11	24.00
39	6145	996/67	6.91	7.29	10.11	10.27	15.47	24.00
87	6385	996/67	7.02	8.20	10.66	11.64	16.02	24.00
103	6465	996/67	6.88	8.21	10.61	11.50	15.97	24.00
*119	6545	996/67	7.41	7.58	10.51	11.24	15.87	24.00
*119	6545	996/67	7.41	7.58	10.51	11.24	15.87	24.00
135	6625	996/67	6.75	7.22	10.00	10.00	15.36	24.00
151	6705	996/67	7.01	7.27	10.15	10.36	15.51	24.00
167	6785	996/67	6.89	7.73	10.34	10.82	15.70	24.00
*183	6865	996/67	6.72	8.21	10.54	11.32	15.90	24.00
*183	6865	996/67	6.72	8.21	10.54	11.32	15.90	24.00
199	6945	996/67	6.95	8.03	10.53	11.31	15.89	24.00
215	7025	996/67	7.48	7.56	10.53	11.30	15.89	24.00

*Note : Straddle Channel

<802.11ax HE160_Partial RU>

Channel	Channel Frequency (MHz)	RU Config.	Average Output Power (dBm)		Total Power		EIRP Power (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	(dBm)	(mW)		
15	6025	1992/68	12.77	12.92	15.86	38.51	21.22	24.00
47	6185	1992/68	12.16	13.22	15.73	37.43	21.09	24.00
79	6345	1992/68	12.56	13.92	16.30	42.69	21.66	24.00
*111	6505	1992/68	13.05	13.67	16.38	43.46	21.74	24.00
*111	6505	1992/68	13.05	13.67	16.38	43.46	21.74	24.00
143	6665	1992/68	13.14	13.30	16.23	41.99	21.59	24.00
*175	6825	1992/68	13.28	13.54	16.42	43.88	21.78	24.00
*175	6825	1992/68	13.28	13.54	16.42	43.88	21.78	24.00
207	6985	1992/68	12.81	13.09	15.96	39.47	21.32	24.00

*Note : Straddle Channel

5.1.3 Radiated Spurious Emissions

Limit

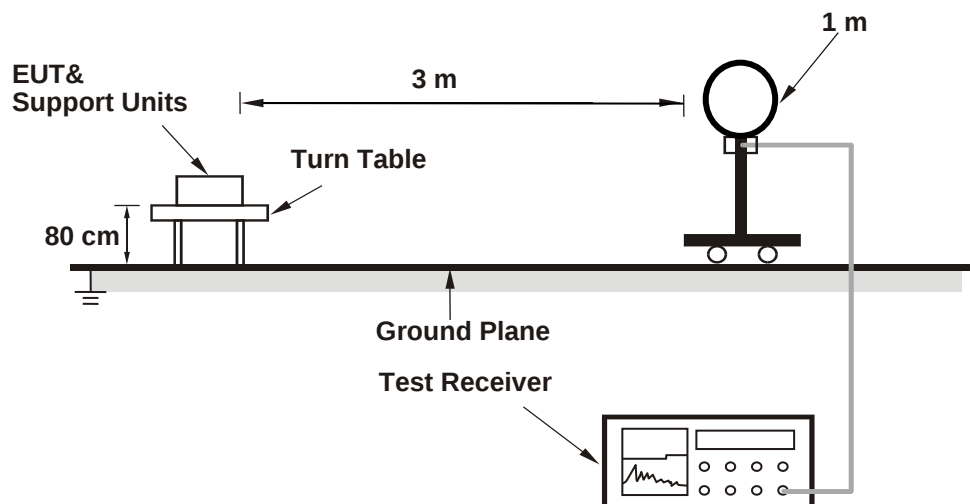
For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

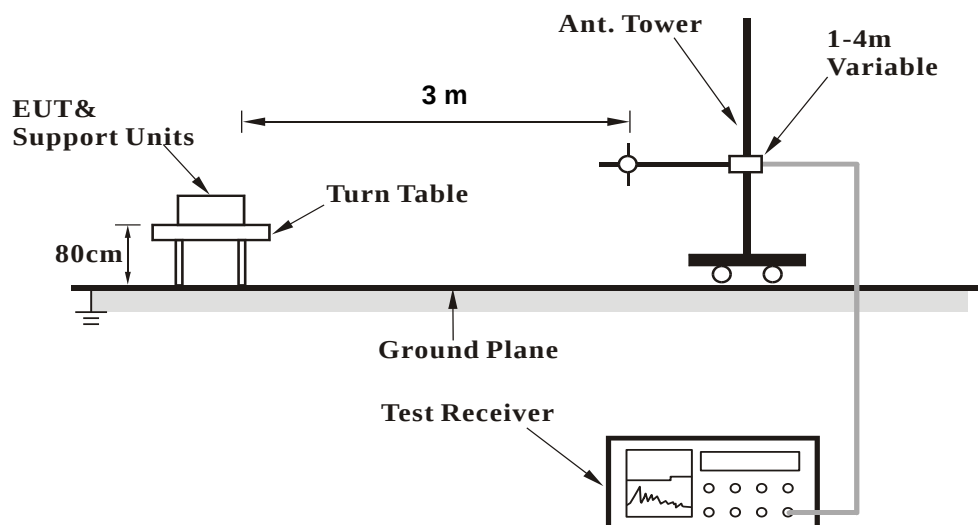
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

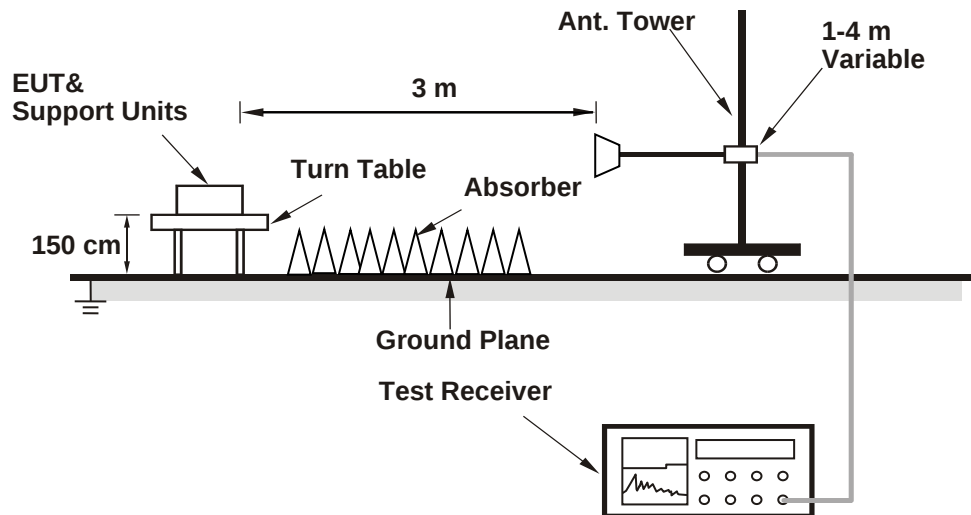
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2023/4/26	2024/4/24
Horn Antenna	ETS-Lindgren	3117	00218929	2022/11/17	2023/11/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2023/5/4	2024/5/2
HF-AMP + AC source	EMCI	EMC051845SE	980635	2023/2/16	2024/2/15
HF-AMP + AC source	EMCI	EMC051845SE	980656	2023/1/16	2024/1/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2023/3/31	2024/3/29
LF-AMP	Agilent	8447D	2944A107722	2023/3/22	2024/3/20
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2023/2/24	2024/2/23
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2023/1/4	2024/1/3
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. 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.
- f. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. 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.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

5.2 Mains Emission

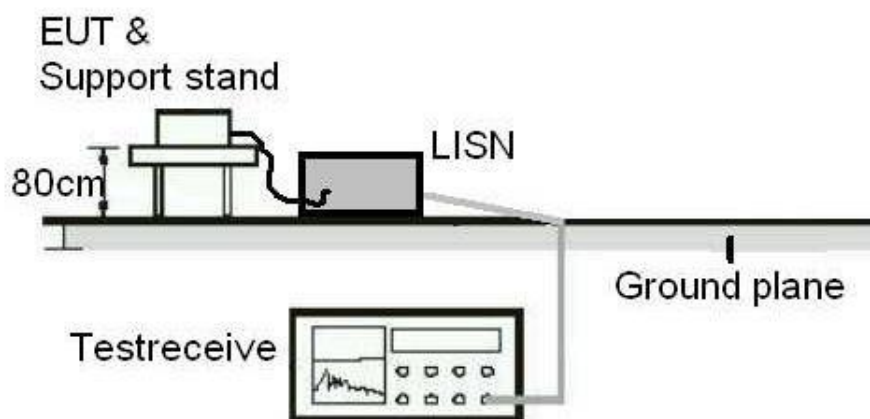
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emissions as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2023/10/23	2024/10/21
EMI Test Receiver	R&S	ESCI	101094	2022/11/24	2023/11/23

Test Procedures

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

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

Band Edges, 5.46GHz ~ 7.250GHz

U-NII 5

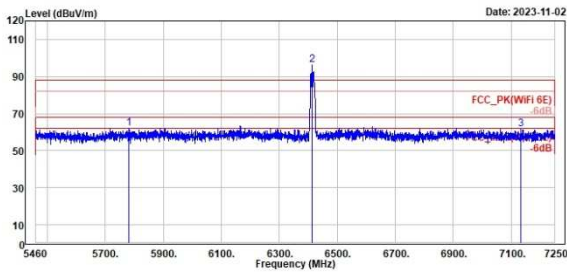
802.11a

CH93 (Horizontal) Peak

CH93 (Vertical) Peak



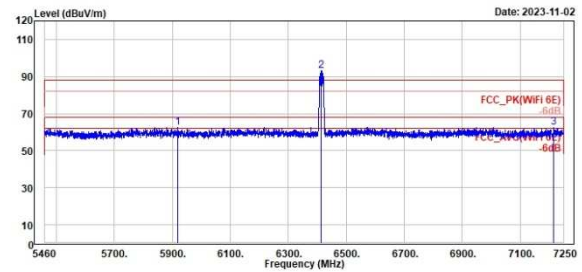
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No. 438-18, Sec 2, Penliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	5781.62	61.91	68.69	-6.78	88.20	-26.29	125	175 Peak	Horizontal	
2 *	6415.00	96.43	102.53	-6.10	88.20	8.23	125	175 Peak	Horizontal	
3	7134.57	61.64	67.12	-5.48	88.20	-26.56	125	175 Peak	Horizontal	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	5918.49	62.69	69.17	-6.48	88.20	-25.51	100	182 Peak	Vertical	
2 *	6415.00	93.22	99.32	-6.10	88.20	5.82	100	182 Peak	Vertical	
3	7216.77	62.33	67.73	-5.40	88.20	-25.87	100	182 Peak	Vertical	

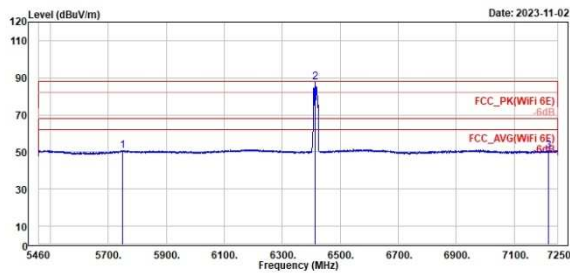
802.11a

CH93 (Horizontal) RMS

CH93 (Vertical) RMS



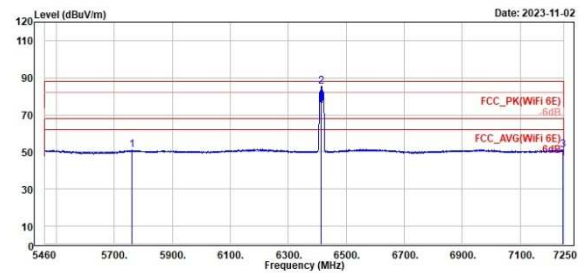
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5749.46	50.87	57.66	-6.79	68.20	-17.33	125	175 RMS	Horizontal		
2 *	6415.00	87.58	93.68	-6.10	68.20	19.38	125	175 RMS	Horizontal		
3	7218.55	50.65	56.04	-5.39	68.20	-17.55	125	175 RMS	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5769.18	50.93	57.71	-6.78	68.20	-17.27	100	182 RMS	Vertical		
2 *	6415.00	85.26	91.36	-6.10	68.20	17.06	100	182 RMS	Vertical		
3	7248.21	51.10	56.40	-5.30	68.20	-17.10	100	182 RMS	Vertical		

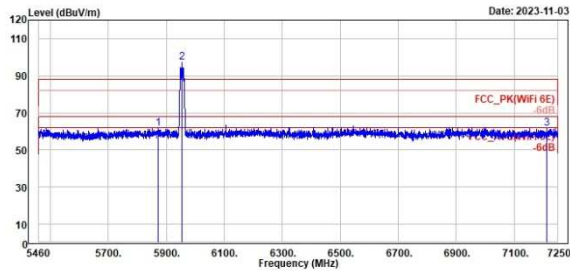
802.11ax HE20

CH1 (Horizontal) Peak

CH1 (Vertical) Peak



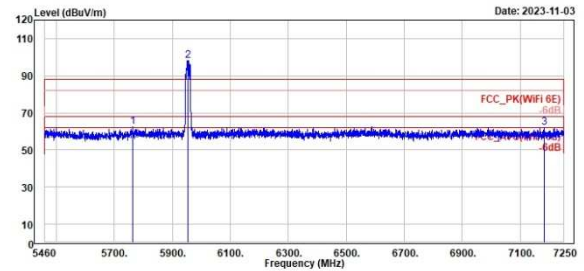
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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5870.96	61.61	68.49	-6.68	88.20	-26.39	100	197	Peak	Horizontal		
2 *	5955.00	97.00	103.54	-6.54	88.20	8.80	100	197	Peak	Horizontal		
3	7212.12	61.70	67.11	-5.41	88.20	-26.50	100	197	Peak	Horizontal		



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Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5763.04	62.38	69.16	-6.78	88.20	-25.82	172	180	Peak	Vertical		
2 *	5955.00	98.24	104.78	-6.54	88.20	18.04	172	180	Peak	Vertical		
3	7182.82	62.07	67.53	-5.46	88.20	-26.13	172	180	Peak	Vertical		

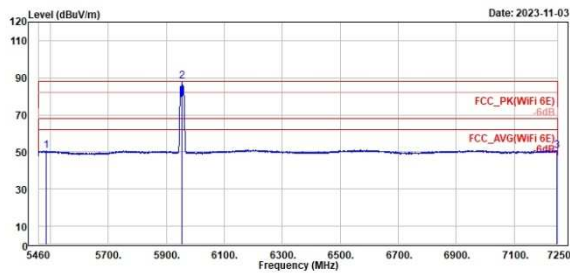
802.11ax HE20

CH1 (Horizontal) RMS

CH1 (Vertical) RMS



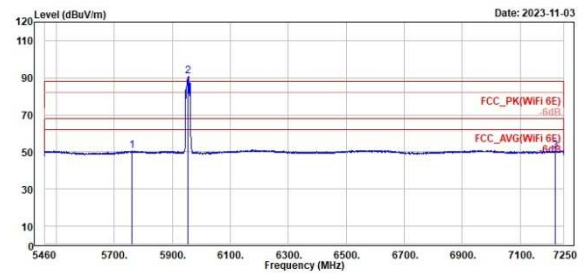
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5486.00	50.54	57.63	-7.09	68.20	-17.66	100	197	RMS	Horizontal	
2 *	5955.00	88.00	94.54	-6.54	68.20	19.80	100	197	RMS	Horizontal	
3	7246.43	50.71	56.03	-5.32	68.20	-17.49	100	197	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5760.18	50.74	57.52	-6.78	68.20	-17.46	172	180	RMS	Vertical	
2 *	5955.00	90.04	97.48	-6.54	68.20	22.74	172	180	RMS	Vertical	
3	7221.41	50.57	55.96	-5.39	68.20	-17.63	172	180	RMS	Vertical	

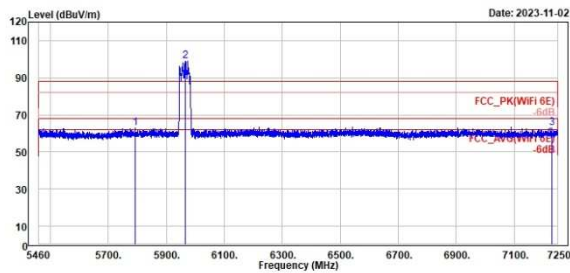
802.11ax HE40

CH3 (Horizontal) Peak

CH3 (Vertical) Peak



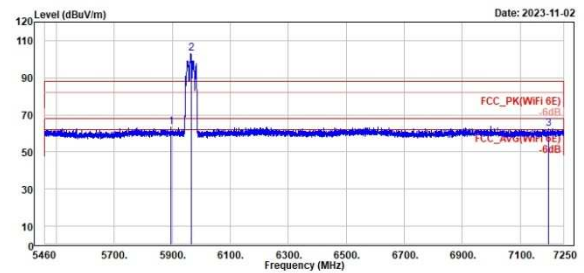
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5794.01	62.84	69.61	-6.77	88.20	-25.36		100	196	Peak	Horizontal	
2 *	5965.00	98.92	105.48	-6.56	88.20	18.72		100	196	Peak	Horizontal	
3	7229.59	63.18	68.54	-5.36	88.20	-25.02		100	196	Peak	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5896.22	63.49	69.96	-6.47	88.20	-24.71		220	180	Peak	Vertical	
2 *	5965.00	103.06	109.62	-6.56	88.20	14.86		220	180	Peak	Vertical	
3	7198.45	62.46	67.90	-5.44	88.20	-25.74		220	180	Peak	Vertical	

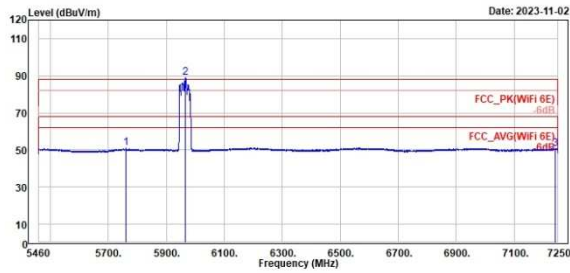
802.11ax HE40

CH3 (Horizontal) RMS

CH3 (Vertical) RMS



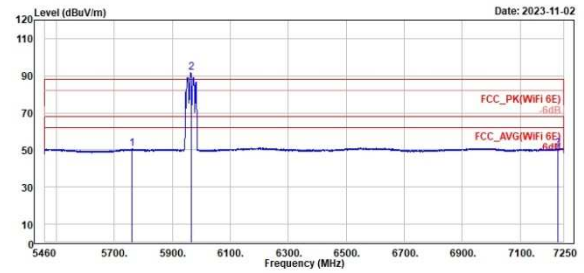
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5768.00	51.18	57.96	-6.78	68.20	-17.02	100	196	RMS	Horizontal	
2 *	5965.00	88.05	95.41	-6.56	68.20	20.65	100	196	RMS	Horizontal	
3	7242.66	50.60	55.92	-5.32	68.20	-17.60	100	196	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5768.18	50.69	57.47	-6.78	68.20	-17.51	220	180	RMS	Vertical	
2 *	5965.00	91.73	98.29	-6.56	68.20	23.53	220	180	RMS	Vertical	
3	7229.59	50.67	56.03	-5.36	68.20	-17.53	220	180	RMS	Vertical	

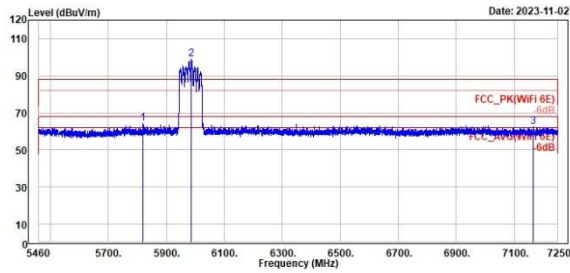
802.11ax HE80

CH7 (Horizontal) Peak

CH7 (Vertical) Peak



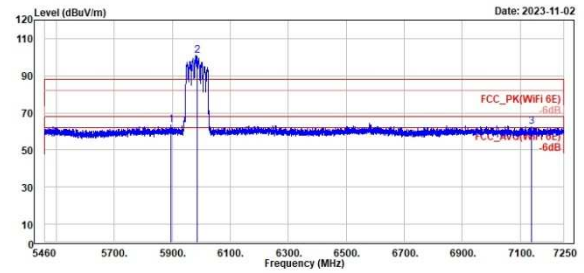
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5920.69	64.43	71.23	-6.80	88.20	-23.77	127	196	Peak	Horizontal		
2 *	5985.00	98.93	105.52	-6.59	88.20	10.73	127	196	Peak	Horizontal		
3	7166.41	62.31	67.77	-5.46	88.20	-25.89	127	196	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5986.76	63.49	69.96	-6.47	88.20	-24.71	189	182	Peak	Vertical		
2 *	5985.00	100.83	107.42	-6.59	88.20	12.63	189	182	Peak	Vertical		
3	7140.27	62.31	67.79	-5.48	88.20	-25.89	189	182	Peak	Vertical		

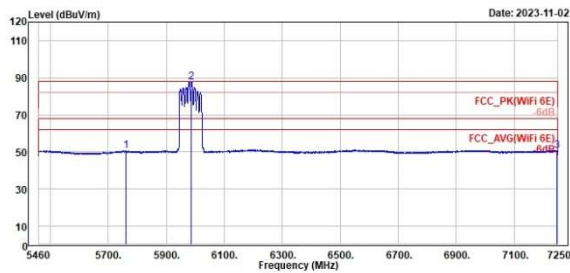
802.11ax HE80

CH7 (Horizontal) RMS

CH7 (Vertical) RMS



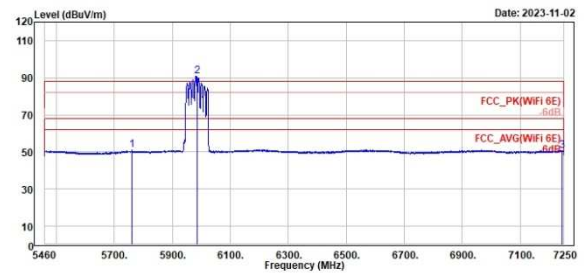
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5759.83	50.86	57.64	-6.78	68.20	-17.34	127	196	RMS	Horizontal	
2 *	5985.00	87.79	94.38	-6.59	68.20	19.59	127	196	RMS	Horizontal	
3	7249.11	50.68	55.98	-5.30	68.20	-17.52	127	196	RMS	Horizontal	



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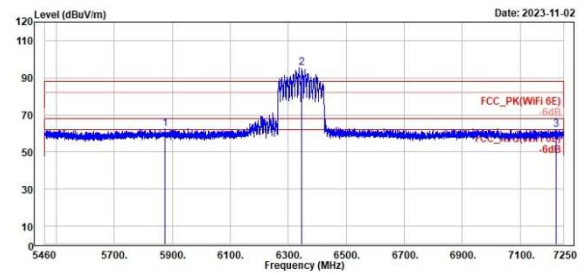
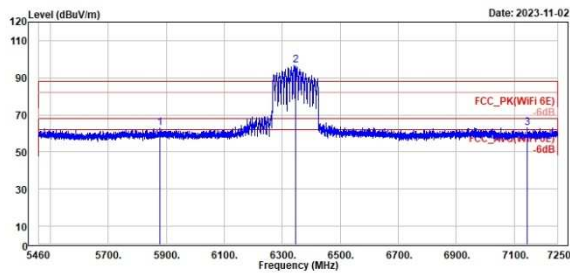


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5760.00	50.94	57.72	-6.78	68.20	-17.26	189	182	RMS	Vertical	
2 *	5985.00	90.78	97.37	-6.59	68.20	22.58	189	182	RMS	Vertical	
3	7244.63	50.65	55.97	-5.32	68.20	-17.55	189	182	RMS	Vertical	

802.11ax HE160

CH79 (Horizontal) Peak

CH79 (Vertical) Peak



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5878.86	63.89	69.71	-6.62	88.20	-25.11	100		171 Peak	Horizontal	
2 *	6345.00	96.92	103.03	-6.11	88.20	8.72	100		171 Peak	Horizontal	
3	7146.54	63.16	68.63	-5.47	88.20	-25.04	100		171 Peak	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5875.82	62.39	69.03	-6.64	88.20	-25.81	243		180 Peak	Vertical	
2 *	6345.00	95.37	101.48	-6.11	88.20	7.17	243		180 Peak	Vertical	
3	7223.51	61.87	67.24	-5.37	88.20	-26.33	243		180 Peak	Vertical	

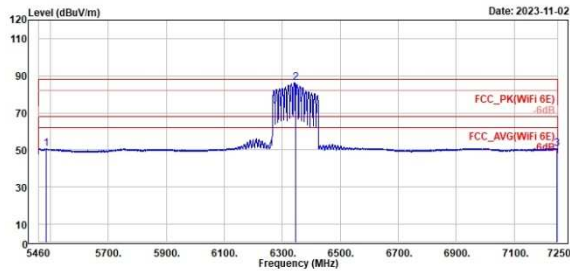
802.11ax HE160

CH79 (Horizontal) RMS

CH79 (Vertical) RMS



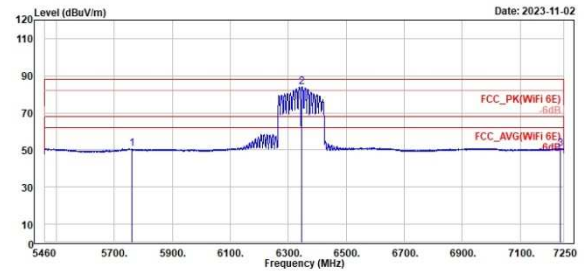
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5485.78	50.59	57.68	-7.09	68.20	-17.61	100	171	RMS	Horizontal	
2 *	6345.00	86.32	92.43	-6.11	68.20	18.12	100	171	RMS	Horizontal	
3	7246.60	50.74	56.06	-5.32	68.20	-17.46	100	171	RMS	Horizontal	



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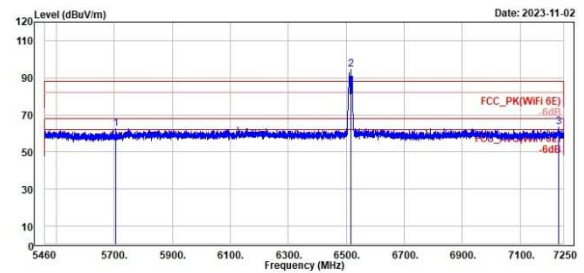
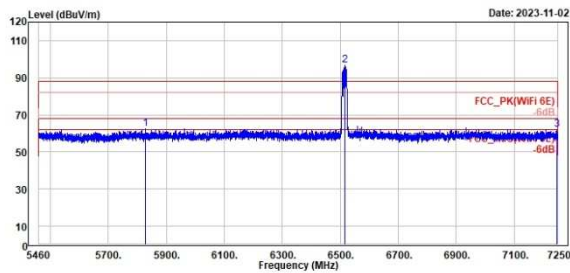
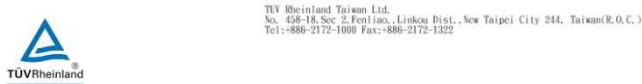
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5760.00	50.60	57.38	-6.78	68.20	-17.60	243	180	RMS	Vertical	
2 *	6345.00	84.12	90.23	-6.11	68.20	15.92	243	180	RMS	Vertical	
3	7238.19	50.73	56.06	-5.33	68.20	-17.47	243	180	RMS	Vertical	

U-NII 6

802.11 a

CH113 (Horizontal) Peak

CH113 (Vertical) Peak



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5827.31	62.32	69.14	-6.82	88.20	-25.88	274	202	Peak	Horizontal	
2 *	6515.00	96.95	102.61	-5.66	88.20	8.75	274	202	Peak	Horizontal	
3	7247.32	62.08	67.39	-5.31	88.20	-26.12	274	202	Peak	Horizontal	

Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5795.95	62.63	69.87	-7.24	88.20	-25.57	108	185	Peak	Vertical	
2 *	6515.00	94.49	100.35	-5.86	88.20	6.29	108	185	Peak	Vertical	
3	7232.82	63.24	68.59	-5.35	88.20	-24.96	108	185	Peak	Vertical	

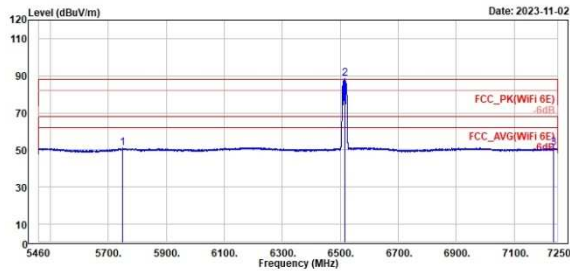
802.11 a

CH113 (Horizontal) RMS

CH113 (Vertical) RMS



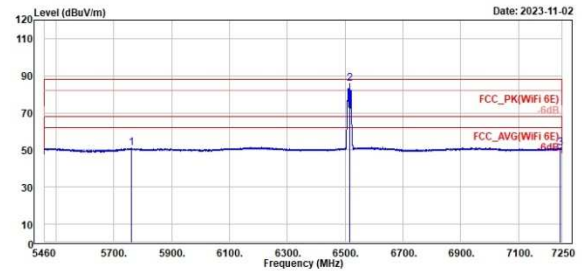
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5759.16	50.90	57.69	-6.79	68.20	-17.30	274	202	RMS	Horizontal	
2 *	6515.00	88.63	94.49	-5.86	68.20	20.43	274	202	RMS	Horizontal	
3	7237.47	50.89	56.23	-5.34	68.20	-17.31	274	202	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5759.83	51.32	58.10	-6.78	68.20	-16.88	108	185	RMS	Vertical	
2 *	6515.00	85.58	91.44	-5.86	68.20	17.38	108	185	RMS	Vertical	
3	7246.24	51.05	56.37	-5.32	68.20	-17.15	108	185	RMS	Vertical	

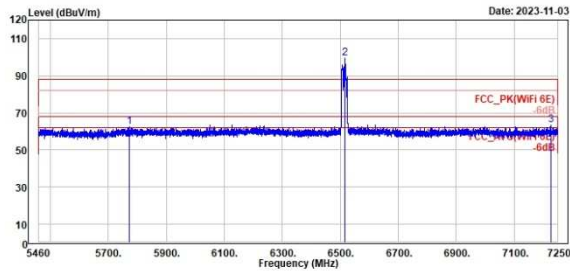
802.11ax HE20

CH113 (Horizontal) Peak

CH113 (Vertical) Peak



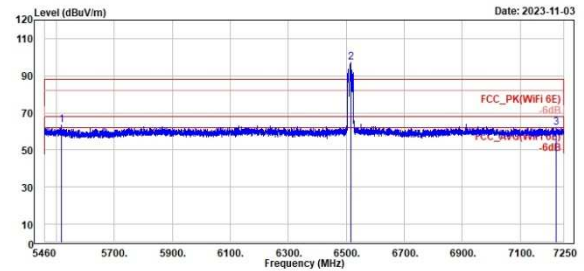
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5772.00	62.62	69.40	-6.78	88.20	-25.58	280	189	Peak	Horizontal		
2 *	6515.00	99.34	105.20	-5.86	88.20	11.14	280	189	Peak	Horizontal		
3	7227.09	63.35	68.72	-5.37	88.20	-24.85	280	189	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5518.35	63.42	70.50	-7.08	88.20	-24.78	100	183	Peak	Vertical		
2 *	6515.00	97.12	102.98	-5.86	88.20	8.92	100	183	Peak	Vertical		
3	7224.05	62.23	67.60	-5.37	88.20	-25.97	100	183	Peak	Vertical		

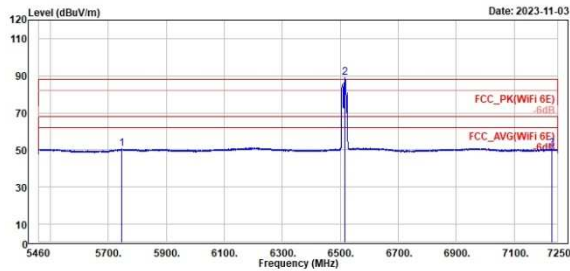
802.11ax HE20

CH113 (Horizontal) RMS

CH113 (Vertical) RMS



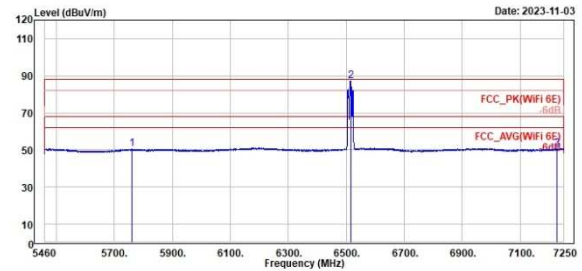
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5745.68	50.43	57.25	-6.82	68.20	-17.77		280	189	RMS	Horizontal	
2 *	6515.00	89.87	94.73	-5.86	68.20	26.53		280	189	RMS	Horizontal	
3	7229.77	50.52	55.88	-5.36	68.20	-17.68		280	189	RMS	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5759.83	50.77	57.55	-6.78	68.20	-17.43		100	183	RMS	Vertical	
2 *	6515.00	89.83	94.79	-5.86	68.20	26.59		100	183	RMS	Vertical	
3	7228.70	50.65	56.01	-5.36	68.20	-17.55		100	183	RMS	Vertical	

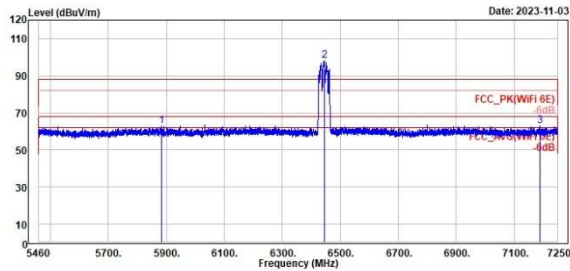
802.11ax HE40

CH99 (Horizontal) Peak

CH99 (Vertical) Peak



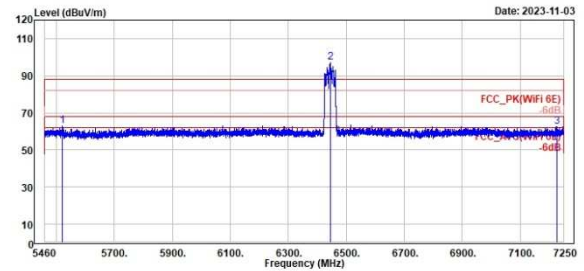
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5884.59	62.88	69.37	-6.57	88.20	-25.40	118	178	Peak	Horizontal	
2 *	6445.00	97.93	104.01	-6.08	88.20	9.73	118	178	Peak	Horizontal	
3	7190.57	62.93	68.38	-5.45	88.20	-25.27	118	178	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5522.11	63.07	70.14	-7.07	88.20	-25.13	100	182	Peak	Vertical	
2 *	6445.00	97.38	103.46	-6.08	88.20	9.18	100	182	Peak	Vertical	
3	7226.37	62.36	67.73	-5.37	88.20	-25.84	100	182	Peak	Vertical	

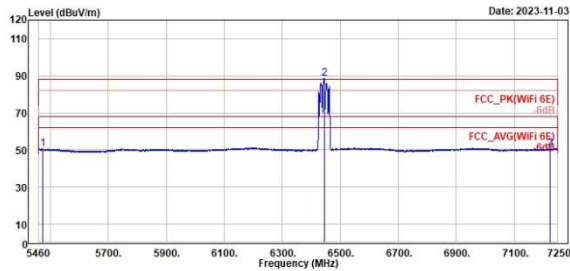
802.11ax HE40

CH99 (Horizontal) RMS

CH99 (Vertical) RMS



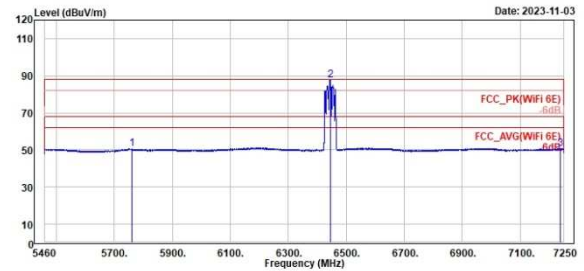
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5474.86	50.51	57.62	-7.11	68.20	-17.69	118	178 RMS	Horizontal		
2 *	6445.00	88.63	96.71	-6.08	68.20	28.43	118	178 RMS	Horizontal		
3	7224.58	50.61	55.98	-5.37	68.20	-17.59	118	178 RMS	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5769.00	50.55	57.33	-6.78	68.20	-17.65	100	182 RMS	Vertical		
2 *	6445.00	87.51	93.59	-6.08	68.20	25.31	100	182 RMS	Vertical		
3	7239.98	50.65	55.98	-5.33	68.20	-17.55	100	182 RMS	Vertical		

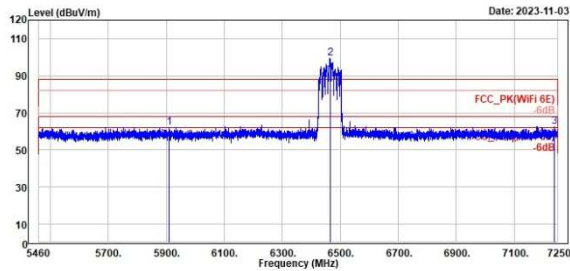
802.11ax HE80

CH103 (Horizontal) Peak

CH103 (Vertical) Peak



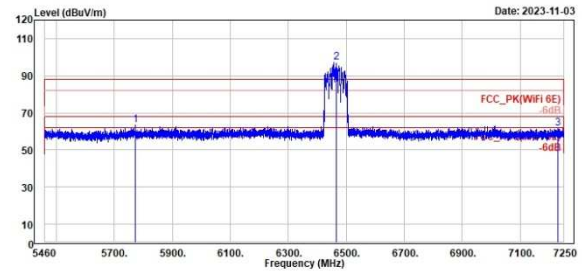
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5918.19	61.96	68.42	-6.46	88.20	-26.24	112	178	Peak	Horizontal	
2 *	6465.00	99.29	105.31	-6.02	88.20	11.09	112	178	Peak	Horizontal	
3	7238.72	62.58	67.91	-5.33	88.20	-25.62	112	178	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5773.61	63.44	70.22	-6.78	88.20	-24.76	100	185	Peak	Vertical	
2 *	6465.00	97.11	103.16	-6.05	88.20	8.91	100	185	Peak	Vertical	
3	7231.56	61.49	66.85	-5.36	88.20	-26.71	100	185	Peak	Vertical	

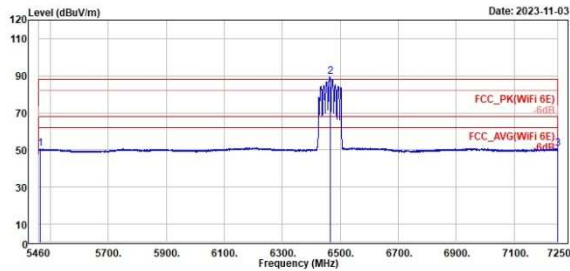
802.11ax HE80

CH103 (Horizontal) RMS

CH103 (Vertical) RMS



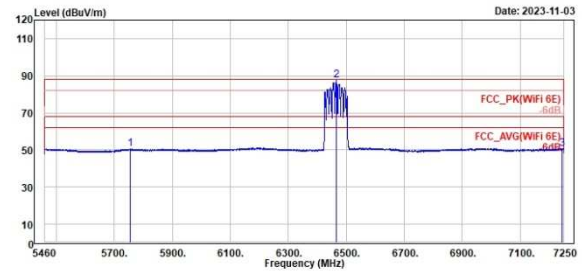
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5464.65	50.59	57.73	-7.14	68.20	-17.61	112	178 RMS	Horizontal		
2 *	6465.00	89.32	95.35	-6.03	68.20	21.12	112	178 RMS	Horizontal		
3	7249.82	50.55	55.85	-5.30	68.20	-17.65	112	178 RMS	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5755.53	50.57	57.35	-6.78	68.20	-17.63	100	185 RMS	Vertical		
2 *	6465.00	87.51	93.53	-6.02	68.20	19.31	100	185 RMS	Vertical		
3	7244.81	50.56	55.88	-5.32	68.20	-17.64	100	185 RMS	Vertical		

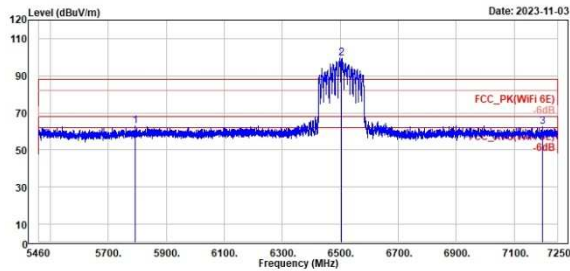
802.11ax HE160

CH111 (Horizontal) Peak

CH111 (Vertical) Peak



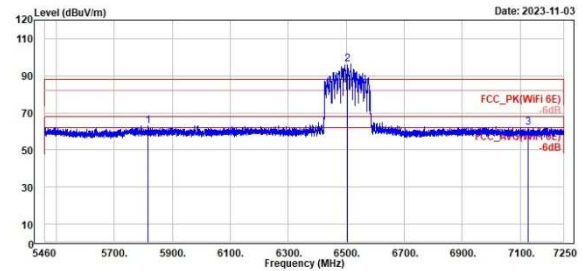
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5794.19	62.83	69.68	-6.77	88.20	-25.37	270	202	Peak	Horizontal	
2 *	6585.00	99.68	105.55	-5.87	88.20	11.48	270	202	Peak	Horizontal	
3	7199.16	62.41	67.85	-5.44	88.20	-25.79	270	202	Peak	Horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	5817.28	62.90	69.70	-6.80	88.20	-25.30	100	185	Peak	Vertical	
2 *	6585.00	96.23	102.10	-5.87	88.20	8.03	100	185	Peak	Vertical	
3	7128.82	61.93	67.42	-5.49	88.20	-26.27	100	185	Peak	Vertical	

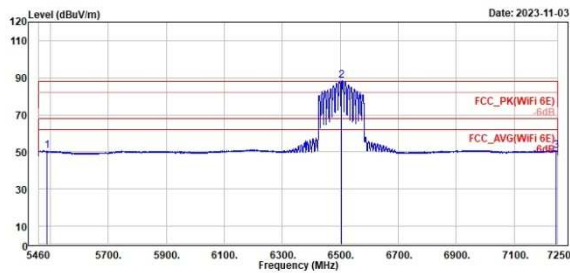
802.11ax HE160

CH111 (Horizontal) RMS

CH111 (Vertical) RMS



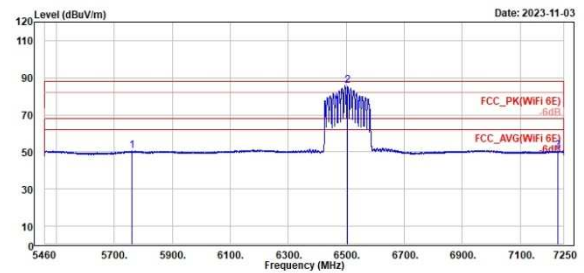
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5488.10	50.59	57.67	-7.08	68.20	-17.61	270	202 RMS	Horizontal		
2 *	6505.00	88.66	94.52	-5.86	68.20	20.46	270	202 RMS	Horizontal		
3	7243.56	50.71	56.03	-5.32	68.20	-17.49	270	202 RMS	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5759.83	50.60	57.38	-6.78	68.20	-17.60	100	185 RMS	Vertical		
2 *	6505.00	85.63	91.52	-5.89	68.20	17.43	100	185 RMS	Vertical		
3	7229.77	50.43	55.79	-5.36	68.20	-17.77	100	185 RMS	Vertical		

U-NII 7

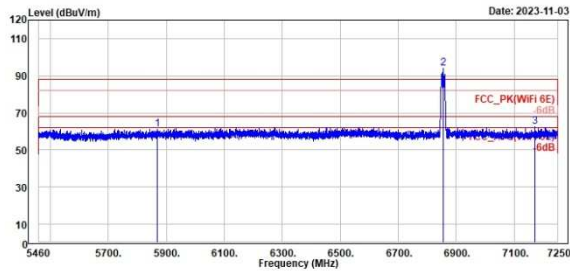
802.11a

CH181 (Horizontal) Peak

CH181 (Vertical) Peak



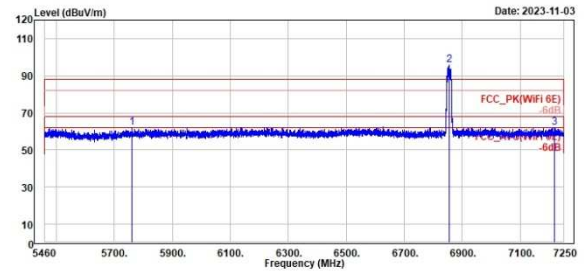
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5869.91	61.21	67.90	-6.69	88.20	-26.99	250	189	Peak	Horizontal		
2 *	6855.00	94.01	99.69	-5.68	88.20	5.81	250	189	Peak	Horizontal		
3	7172.49	62.42	67.87	-5.45	88.20	-25.78	250	189	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5761.08	61.86	68.64	-6.78	88.20	-26.34	291	192	Peak	Vertical		
2 *	6855.00	95.92	101.60	-5.68	88.20	7.72	291	192	Peak	Vertical		
3	7217.60	61.94	67.33	-5.39	88.20	-26.26	291	192	Peak	Vertical		

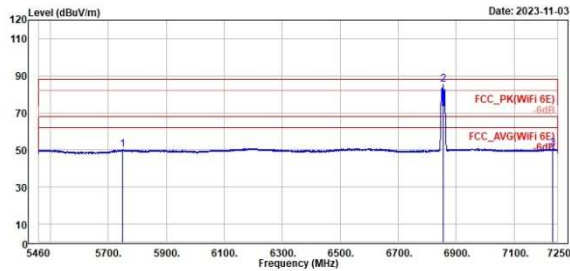
802.11a

CH181 (Horizontal) RMS

CH181 (Vertical) RMS



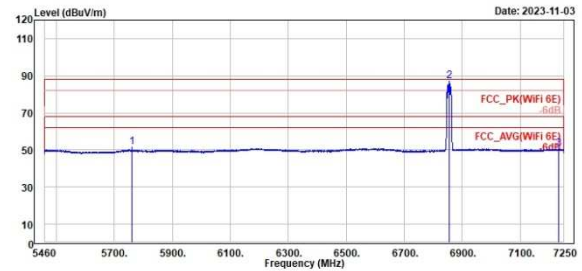
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5759.52	50.19	56.98	-6.79	68.20	-18.01	250	189	RMS	Horizontal	
2 *	6855.00	85.55	91.23	-5.68	68.20	17.35	250	189	RMS	Horizontal	
3	7232.46	50.54	55.90	-5.36	68.20	-17.66	250	189	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5760.00	51.69	58.47	-6.78	68.20	-16.51	291	192	RMS	Vertical	
2 *	6855.00	87.32	93.00	-5.68	68.20	19.12	291	192	RMS	Vertical	
3	7233.17	50.45	55.80	-5.35	68.20	-17.75	291	192	RMS	Vertical	

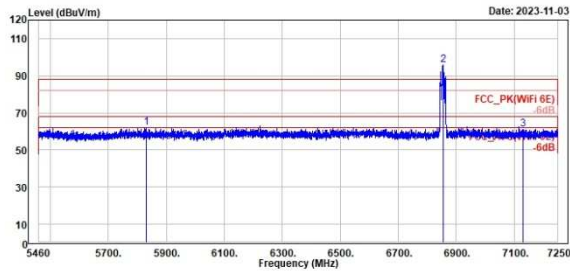
802.11ax HE20

CH181 (Horizontal) Peak

CH181 (Vertical) Peak



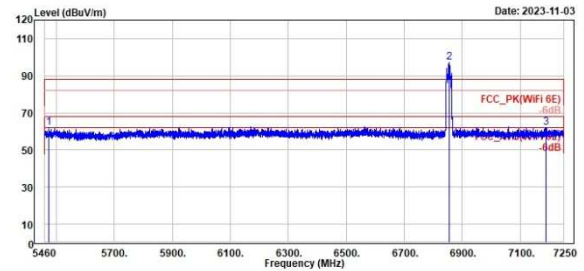
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5830.89	62.00	68.82	-6.82	88.20	-26.20	252	190	Peak	Horizontal		
2 *	6855.00	95.96	101.64	-5.68	88.20	7.76	252	190	Peak	Horizontal		
3	7130.79	61.13	66.62	-5.49	88.20	-27.07	252	190	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5473.43	62.01	69.12	-7.11	88.20	-26.19	282	190	Peak	Vertical		
2 *	6855.00	97.17	102.85	-5.68	88.20	8.97	282	190	Peak	Vertical		
3	7188.42	62.05	67.50	-5.45	88.20	-26.15	282	190	Peak	Vertical		

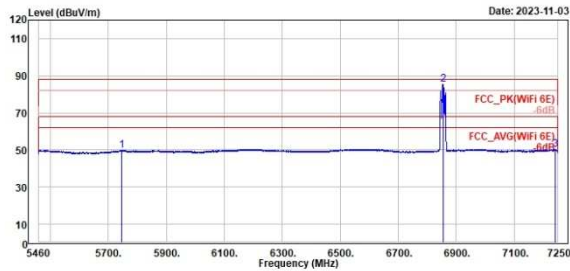
802.11ax HE20

CH181 (Horizontal) RMS

CH181 (Vertical) RMS



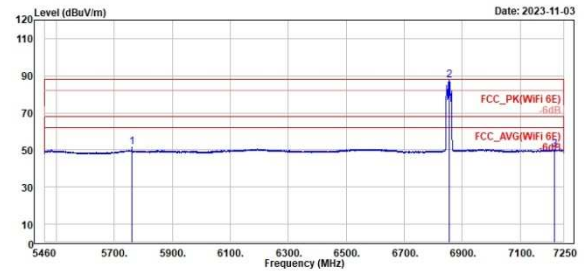
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5746.76	49.82	56.63	-6.81	68.20	-18.38	252	190	RMS	Horizontal		
2 *	6855.00	85.52	91.20	-5.68	68.20	17.32	252	190	RMS	Horizontal		
3	7240.69	50.12	55.45	-5.33	68.20	-18.08	252	190	RMS	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5700.00	51.38	58.16	-6.78	68.20	-16.82	282	190	RMS	Vertical		
2 *	6855.00	87.72	93.40	-5.68	68.20	19.52	282	190	RMS	Vertical		
3	7219.21	50.04	55.43	-5.39	68.20	-18.16	282	190	RMS	Vertical		

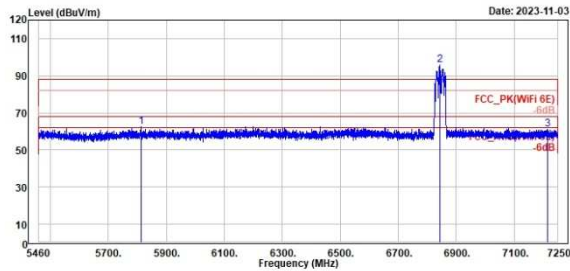
802.11ax HE40

CH179 (Horizontal) Peak

CH179 (Vertical) Peak



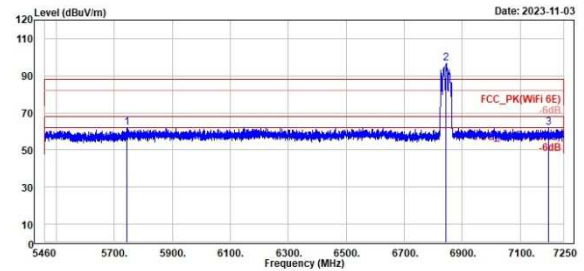
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5812.99	62.32	69.12	-6.80	88.20	-25.88	219	193	Peak	Horizontal	
2 *	6845.00	96.00	101.67	-5.67	88.20	7.80	219	193	Peak	Horizontal	
3	7216.17	61.20	66.60	-5.40	88.20	-27.00	219	193	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5744.61	61.84	68.67	-6.83	88.20	-26.36	283	192	Peak	Vertical	
2 *	6845.00	96.00	102.62	-5.66	88.20	8.76	283	192	Peak	Vertical	
3	7197.73	61.91	67.35	-5.44	88.20	-26.29	283	192	Peak	Vertical	

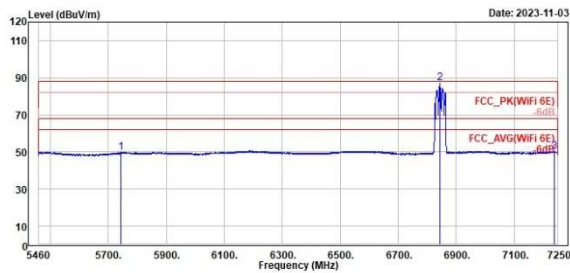
802.11ax HE40

CH179 (Horizontal) RMS

CH179 (Vertical) RMS



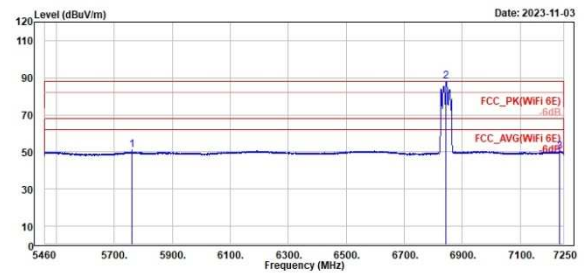
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5742.82	49.85	56.78	-6.85	68.20	-18.35	219	193 RMS	Horizontal		
2 *	6845.00	86.94	92.68	-5.66	68.20	18.74	219	193 RMS	Horizontal		
3	7238.01	50.16	55.49	-5.33	68.20	-18.04	219	193 RMS	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5769.00	51.38	58.88	-6.78	68.20	-16.98	283	192 RMS	Vertical		
2 *	6845.00	88.25	93.91	-5.66	68.20	28.05	283	192 RMS	Vertical		
3	7236.04	50.09	55.43	-5.34	68.20	-18.11	283	192 RMS	Vertical		

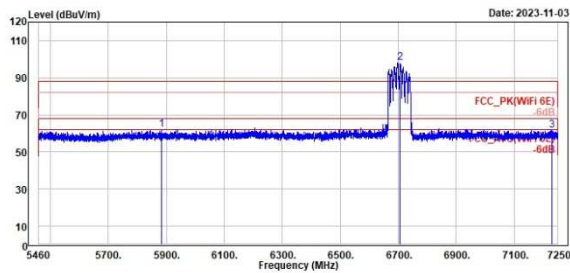
802.11ax HE80

CH151 (Horizontal) Peak

CH151 (Vertical) Peak



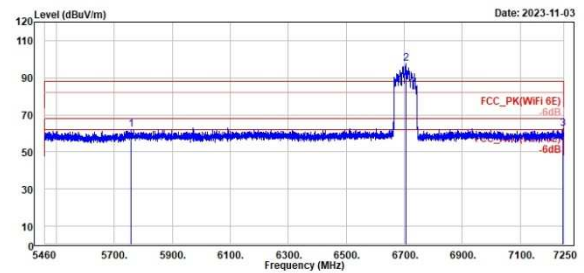
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5884.23	61.87	68.45	-6.58	88.20	-26.33	118	200	Peak	Horizontal	
2 *	6785.00	98.02	104.14	-6.12	88.20	9.92	118	200	Peak	Horizontal	
3	7238.49	61.78	67.14	-5.36	88.20	-26.42	118	200	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5757.14	62.14	68.92	-6.78	88.20	-26.06	302	192	Peak	Vertical	
2 *	6785.00	97.75	103.86	-6.11	88.20	9.55	302	192	Peak	Vertical	
3	7246.42	62.40	67.72	-5.32	88.20	-25.80	302	192	Peak	Vertical	

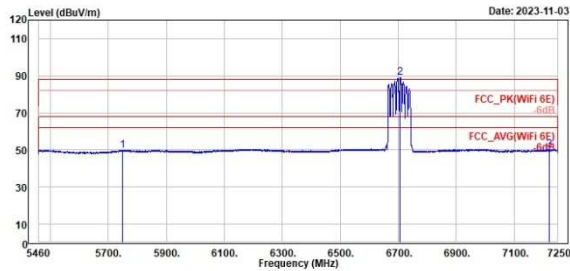
802.11ax HE80

CH151 (Horizontal) RMS

CH151 (Vertical) RMS



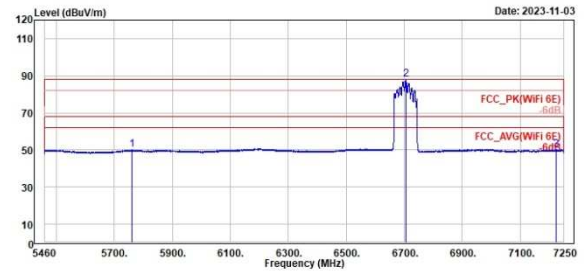
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5749.00	49.83	56.61	-6.78	68.20	-18.37	118	200	RMS	Horizontal	
2 *	6705.00	88.86	94.95	-6.09	68.20	26.66	118	200	RMS	Horizontal	
3	7222.26	50.27	55.65	-5.38	68.20	-17.93	118	200	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5760.00	49.98	56.76	-6.78	68.20	-18.22	302	192	RMS	Vertical	
2 *	6705.00	88.12	94.23	-6.11	68.20	16.02	302	192	RMS	Vertical	
3	7225.30	50.08	55.45	-5.37	68.20	-18.12	302	192	RMS	Vertical	

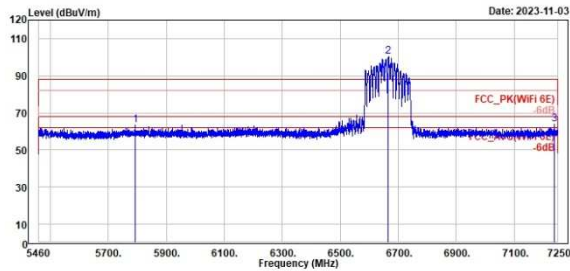
802.11ax HE160

CH143 (Horizontal) Peak

CH143 (Vertical) Peak



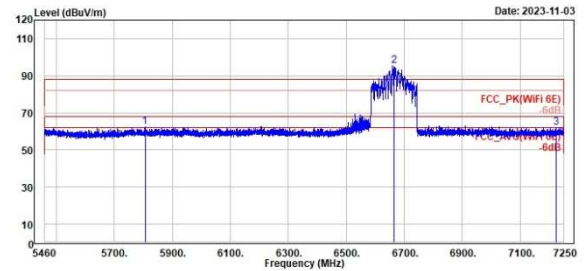
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5792.05	63.45	70.22	-6.77	88.20	-24.75	111	201	Peak	Horizontal		
2 *	6665.00	100.16	106.13	-5.97	88.20	11.96	111	201	Peak	Horizontal		
3	7237.83	63.76	69.09	-5.33	88.20	-24.44	111	201	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5806.19	62.34	69.12	-6.78	88.20	-25.86	375	209	Peak	Vertical		
2 *	6665.00	95.26	101.19	-5.93	88.20	7.06	375	209	Peak	Vertical		
3	7224.76	62.16	67.53	-5.37	88.20	-26.04	375	209	Peak	Vertical		

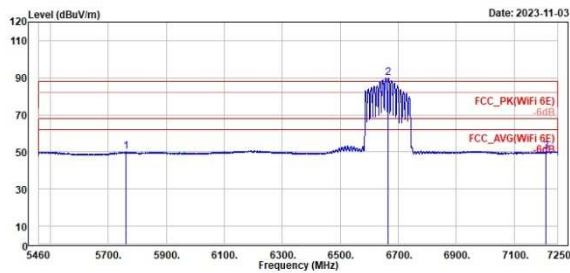
802.11ax HE160

CH143 (Horizontal) RMS

CH143 (Vertical) RMS



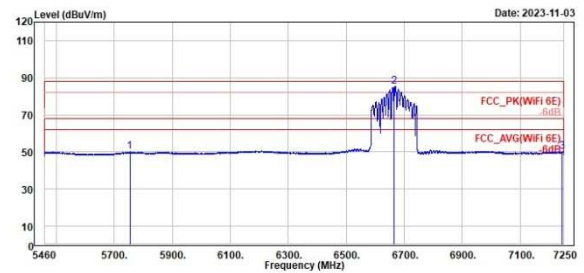
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5769.36	49.98	56.76	-6.78	68.20	-18.22	111	201	RMS	Horizontal	
2 *	6665.00	89.96	95.94	-5.98	68.20	21.76	111	201	RMS	Horizontal	
3	7218.26	50.13	55.54	-5.41	68.20	-18.07	111	201	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5753.56	49.99	56.77	-6.78	68.20	-18.21	375	209	RMS	Vertical	
2 *	6665.00	85.43	91.41	-5.98	68.20	17.23	375	209	RMS	Vertical	
3	7245.70	50.00	55.32	-5.32	68.20	-18.20	375	209	RMS	Vertical	

U-NII 8

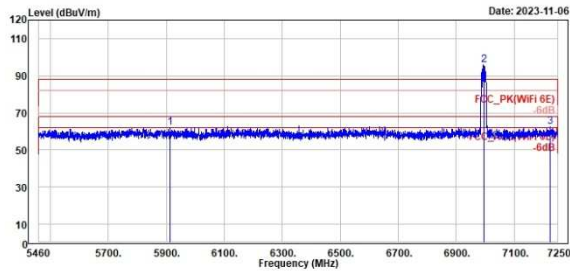
802.11a

CH209 (Horizontal) Peak

CH209 (Vertical) Peak



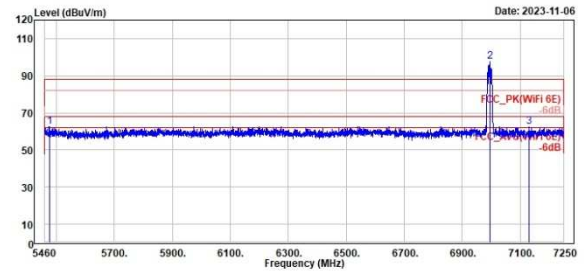
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5913.13	62.15	68.62	-6.47	88.20	-26.05	181	190	Peak	Horizontal		
2 *	6995.00	95.73	101.20	-5.47	88.20	7.53	181	190	Peak	Horizontal		
3	7224.27	62.38	67.75	-5.37	88.20	-25.82	181	190	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5475.72	62.55	69.66	-7.11	88.20	-25.65	283	191	Peak	Vertical		
2 *	6995.00	97.45	102.92	-5.47	88.20	9.25	283	191	Peak	Vertical		
3	7131.72	62.38	67.87	-5.49	88.20	-25.82	283	191	Peak	Vertical		

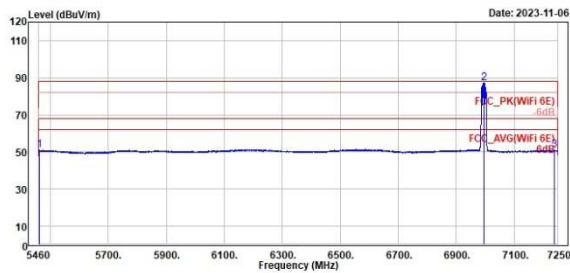
802.11a

CH209 (Horizontal) RMS

CH209 (Vertical) RMS



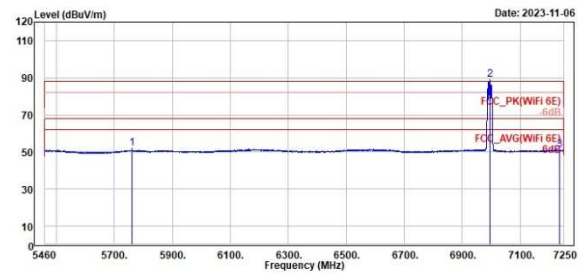
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5462.14	50.98	58.13	-7.15	68.20	-17.22	181	190	RMS	Horizontal	
2 *	6995.00	87.18	92.65	-5.47	68.20	18.96	181	190	RMS	Horizontal	
3	7238.92	51.11	56.44	-5.33	68.20	-17.09	181	190	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5759.82	51.95	58.73	-6.78	68.20	-16.25	283	191	RMS	Vertical	
2 *	6995.00	88.93	94.40	-5.47	68.20	20.73	283	191	RMS	Vertical	
3	7237.49	51.21	56.55	-5.34	68.20	-16.99	283	191	RMS	Vertical	

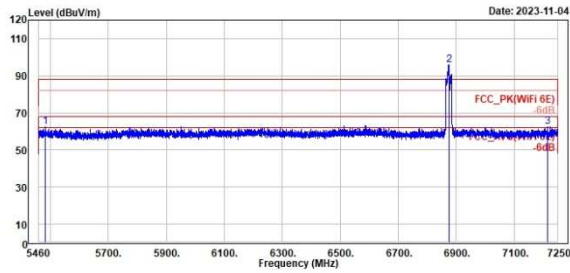
802.11ax HE20

CH185 (Horizontal) Peak

CH185 (Vertical) Peak



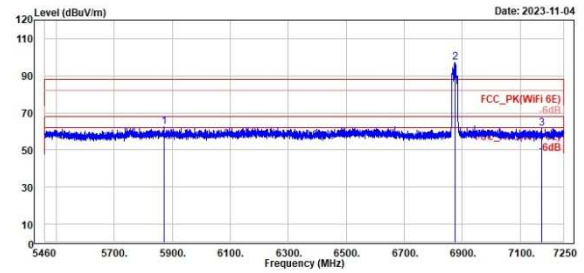
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5483.99	62.30	69.39	-7.09	88.20	-25.90	220	192	Peak	Horizontal	
2 *	6875.00	95.00	101.55	-5.75	88.20	7.60	220	192	Peak	Horizontal	
3	7215.10	62.54	67.94	-5.40	88.20	-25.66	220	192	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5870.98	62.32	69.00	-6.68	88.20	-25.88	291	193	Peak	Vertical	
2 *	6875.00	97.20	102.96	-5.76	88.20	9.00	291	193	Peak	Vertical	
3	7173.57	61.46	66.91	-5.45	88.20	-26.74	291	193	Peak	Vertical	

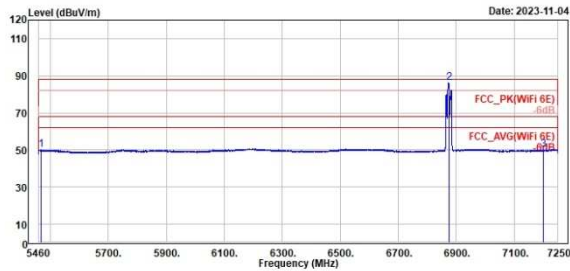
802.11ax HE20

CH185 (Horizontal) RMS

CH185 (Vertical) RMS



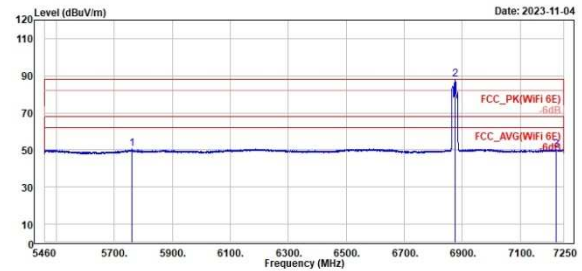
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5469.49	50.05	57.17	-7.12	68.20	-18.15	220	192	RMS	Horizontal		
2 *	6875.00	86.20	91.93	-5.73	68.20	18.00	220	192	RMS	Horizontal		
3	7201.85	50.09	55.53	-5.44	68.20	-18.11	220	192	RMS	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	5760.00	50.81	57.59	-6.78	68.20	-17.39	291	193	RMS	Vertical		
2 *	6875.00	87.00	93.73	-6.73	68.20	19.78	291	193	RMS	Vertical		
3	7223.87	50.01	55.38	-5.37	68.20	-18.19	291	193	RMS	Vertical		

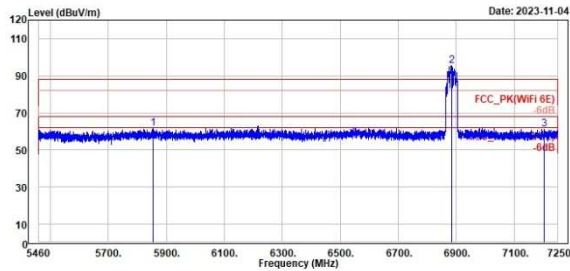
802.11ax HE40

CH187 (Horizontal) Peak

CH187 (Vertical) Peak



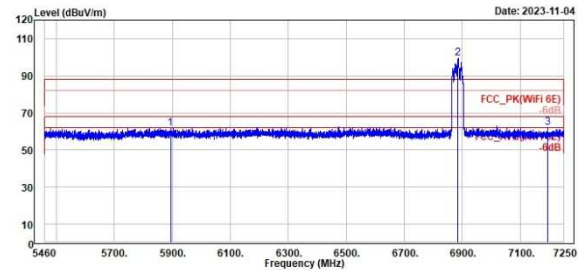
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5855.23	61.67	68.48	-6.81	88.20	-26.53	222	190	Peak	Horizontal	
2	6885.00	95.52	101.30	-5.78	88.20	7.32	222	190	Peak	Horizontal	
3	7203.82	61.26	66.69	-5.43	88.20	-26.94	222	190	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5894.08	61.82	68.32	-6.50	88.20	-26.38	290	193	Peak	Vertical	
2	6885.00	99.33	105.12	-5.79	88.20	11.13	290	193	Peak	Vertical	
3	7195.05	61.95	67.40	-5.45	88.20	-26.25	290	193	Peak	Vertical	

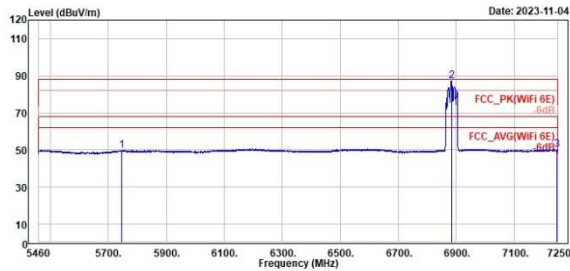
802.11ax HE40

CH187 (Horizontal) RMS

CH187 (Vertical) RMS



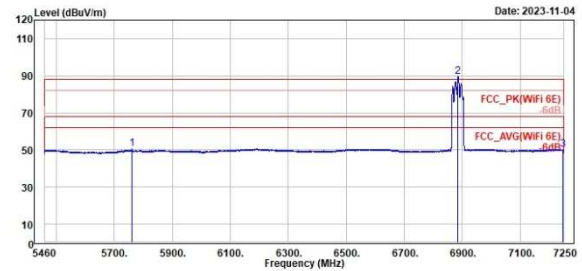
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5746.04	49.85	56.67	-6.82	68.20	-18.35	222	190	RMS	Horizontal	
2 *	6885.00	87.16	92.94	-5.78	68.20	18.96	222	190	RMS	Horizontal	
3	7247.67	50.02	55.32	-5.30	68.20	-18.18	222	190	RMS	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	5760.00	50.42	57.20	-6.78	68.20	-17.78	290	193	RMS	Vertical	
2 *	6885.00	89.51	95.29	-5.78	68.20	21.31	290	193	RMS	Vertical	
3	7248.75	50.17	55.47	-5.30	68.20	-18.03	290	193	RMS	Vertical	