

RADIO TEST REPORT

Product : IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module

Model Name : AP6275SDSR

FCC ID : RYK-AP6275SDSR

Test Regulation : FCC 47 CFR Part 15 Subpart E (Section 15.407)

Received Date : 2026/1/2

Test Date : 2026/01/06 ~ 2026/04/07

Issued Date : 2026/5/6

Applicant : SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan

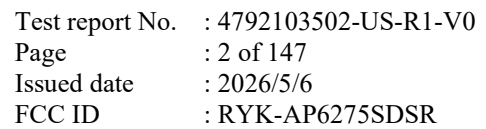


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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1



Original Test Report No.: 4792103502-US-R1-V0

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1. Attestation of Test Results

APPLICANT: SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

MANUFACTURER: SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

EUT DESCRIPTION: IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module

BRAND: SparkLAN, Ampak

MODEL: AP6275SDSR

SAMPLE STAGE: Engineering Verification Test Sample

DATE of TESTED: 2026/01/06 ~ 2026/04/07

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart E (Section 15.407)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:



Sally Lu
Project Handler

Date : 2026/5/6

Approved and Authorized By:



Kent Liu
Senior Laboratory Engineer

Date : 2026/5/6

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.407(e)	6dB Bandwidth	See Note2
15.403(i)	26dB Bandwidth	See Note2
2.1049	Occupied Bandwidth	See Note1
15.407(a)(1/2/3)	Conducted Output Power	PASS
15.407(a)(1/2/3)	Power Spectral Density	See Note2
15.407(g)	Frequency Stability	See Note2
15.407(b) (1/2/3/4/5/9)	Radiated Emissions and Band Edge Measurement	PASS
15.407(b)(9)	AC Power Conducted Emission	See Note2
15.203	Antenna Requirement	PASS
15.407(h)	Dynamic Frequency Selection & Transmit power control	See Note2

Note:

1. The Occupied Bandwidth was reference only.
2. This report is as a supplementary report of report no.: 4790471812-US-R1-V0. Test results refer to the original report.

3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB 789033 D02 General UNII Test Procedure New Rules v02r01, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2020+Cor.1-2023 and KDB 662911 D01 Multiple Transmitter Output v02r01.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

Measurement	Frequency	Uncertainty
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	3.0 dB
RF Conducted	9 kHz - 40GHz	2.4 dB
Radiated disturbance below 30MHz	9 kHz - 30 MHz	1.9 dB
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	5.6 dB
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	4.6 dB

The EUT support table is constructed of high-density Expandable Polystyrene (EPS) with dimensions of 1 m × 1.5 m.

The Measurement Uncertainty (MU) report is prepared in accordance with CISPR 16-4-2:2011-06; the potential impact of the setup table material has been evaluated and included as a component of the overall uncertainty value.

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6. Equipment under Test

6.1. Description of EUT

Product	IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module
Brand Name	SparkLAN, Ampak
Model Name	AP6275SDSR
Normal Voltage	3.3Vdc from Host

Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Modulation	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Transfer Rate	802.11a: up to 54 Mbps
	802.11n: up to MCS15
	802.11ac: up to MCS9
	802.11ax: up to MCS11
Device Type	Client
Maximum Output Power	5180 ~ 5240 MHz: 18.08 dBm
	5260 ~ 5320 MHz: 18.28 dBm
	5500 ~ 5720 MHz: 19.66 dBm
	5745 ~ 5825 MHz: 21.72 dBm
Sample ID	Conducted Test:5258006
	Radiated Test:5258006

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Note:

1. This report is as a supplementary report of report no.: 4790471812-US-R1-V0. The differences were as below:
 - Add new PIFA antennas.
2. According to above conditions, therefore only the radiated spurious emission worse case and conducted output power need to be performed, others result please refer to the original report.
3. The model has two brand names as follows:

Brand	Product name	Model
SparkLAN	IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module	AP6275SDSR
Ampak		

4. EUT provides a complete 2Tx port and 2Rx port. Please refer to the following working transmission conditions:

Modulation Mode	Tx Function	Rx Function
802.11a	2Tx	2Rx
802.11n(HT20)	2Tx	2Rx
802.11n(HT40)	2Tx	2Rx
802.11ac(VHT20)	2Tx	2Rx
802.11ac(VHT40)	2Tx	2Rx
802.11ac(VHT80)	2Tx	2Rx
802.11ax(HE20)	2Tx	2Rx
802.11ax(HE40)	2Tx	2Rx
802.11ax(HE80)	2Tx	2Rx

*The modulation and bandwidth are similar for 802.11n mode, 802.11ac mode, for 20MHz, 40MHz bandwidth system, therefore investigated one worst case to representative mode in test report.

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.

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6.2. Channel List

FOR 5180 ~ 5240MHz

4 channels are provided for 5G WLAN 20MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 5G WLAN 40MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 5G WLAN 80MHz bandwidth system:

Channel	Frequency (MHz)
42	5210

FOR 5260 ~ 5320MHz

4 channels are provided for 5G WLAN 20MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 5G WLAN 40MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

1 channel is provided for 5G WLAN 80MHz bandwidth system:

Channel	Frequency (MHz)
58	5290

FOR 5500 ~ 5720MHz

12 channels are provided for 5G WLAN 20MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	132	5660
104	5520	136	5680
108	5540	140	5700
112	5560	144	5720
116	5580	-	-
120	5600	-	-
124	5620	-	-
128	5640	-	-

6 channels are provided for 5G WLAN 40MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630
110	5550	134	5670
118	5590	142	5710

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3 channel are provided for 5G WLAN 80MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	138	5690
122	5610	-	-

FOR 5745 ~ 5825MHz:

5 channels are provided for 5G WLAN 20MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	-	-

2 channels are provided for 5G WLAN 40MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 5G WLAN 80MHz bandwidth system:

Channel	Frequency (MHz)
155	5775

6.3. Test Condition

Test Item	Test Site No.	Environmental	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	24°C/ 60%RH	3.3Vdc	2026/01/13~ 2026/04/07	Scott Chang/ Jubo Shen
Radiated Spurious Emission	966-2	22~26°C/ 62~68%RH	3.3Vdc	2026/01/06~ 2026/04/07	Scott Chang/ Jubo Shen

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:
Result Value (dBm) = Reading Value (dBm) + Attenuator Factor (dB) + Cable Loss (dB).
Example: Result Value (10dBm) = Reading Value (-2dBm) + Attenuator Factor (10dB) + Cable Loss(2dB).
*Test plot only shown the “Result Value”.

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

AC power Line Conducted Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV) = Reading Value (dBuV) + Correction Factor (dB).
Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).
Example: Result Value (53.7dBuV) = Reading Value (35.1dBuV) + Insertion loss(18.1dB) + Cable loss(0.5dB).

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6.4. Description of Available Antennas

Original							
Ant. No.	Transmitter Circuit	Frequency Range (MHz)	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
1	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-103AG	2.4G: 2.02 5G: 2.03	Dipole	RP-SMA
2	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-301N	2.4G: 4.4 5G: 5.8	Dipole	RP-SMA
3	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-302N	2.4G: 3.14 5G: 2.87	Dipole	RP-SMA
4	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-303N	2.4G: 3.14 5G: 3.45	Dipole	RP-SMA
5	Chain0+1	2400~2500 5150~5825	SparkLAN	AD-305N	2.4G: 5 5G: 5.53	Dipole	RP-SMA
6	Chain0+1	2400~2500 5150~5825	SparkLAN	AD-308N	2.4G: 3 5G: 5	Dipole	I-PEX
7	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-309N	2.4G: 1.68 5G: 4.72	Dipole	I-PEX
8	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-310N	2.4G: 2.65 5G: 4.86	Dipole	I-PEX
9	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-311N	2.4G: 2.67 5G: 4.91	Dipole	I-PEX
10	Chain0+1	2400~2500 5150~5875	GRAND-TEK Technology	103DG00000140	2.4G: 4.8 5G: 5	Dipole	I-PEX
11	Chain0+1	2400~2500 5150~5875	GRAND-TEK Technology	103DG00000150	2.4G: 2.5 5G: 5.3	Dipole	I-PEX
Newly							
Ant. No.	Transmitter Circuit	Frequency Range (MHz)	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
12	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-JP818P1-4C036	2.4G: 2.91 5G: 4.43	PIFA	i-pex(MHF)
13	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP010-4B-70	2.4G: -2.44 5G: 5.23	PIFA	i-pex(MHF)
14	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-27-KP208-4B-115	2.4G: 2.98 5G: 4.89	PIFA	i-pex(MHF)
15	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-27-KP209-74G-315	2.4G: 2.28 5G: 3.64	PIFA	i-pex(MHF)
16	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP290-4B-70	2.4G: 3.13 5G: 4.71	PIFA	i-pex(MHF)
17	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP291-4G-70	2.4G: -1.48 5G: -0.99	PIFA	i-pex(MHF)
18	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-303PF	2.4G: 2.91 5G: 4.43	PIFA	i-pex(MHF)
19	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-304PF	2.4G: -2.44 5G: 5.23	PIFA	i-pex(MHF)
20	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-305PF	2.4G: 2.98 5G: 4.89	PIFA	i-pex(MHF)

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21	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-306PF	2.4G: 2.28 5G: 3.64	PIFA	i-pex(MHF)
22	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-307PF	2.4G: 3.13 5G: 4.71	PIFA	i-pex(MHF)
23	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-308PF	2.4G: -1.48 5G: -0.99	PIFA	i-pex(MHF)

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

6.5. Test Mode Applicability and Tested Channel Detail

Test Item	Mode	Frequency Range(MHz)	Modulation Type	Available Channel	Test Channel	Data Rate
Conducted Output Power and Radiated Bandedge	802.11a	5180-5240	OFDM	36 to 48	36, 44, 48	6 Mbps
	802.11ac (VHT20)		OFDM	36 to 48	36, 44, 48	MCS0 Nss1
	802.11ac (VHT40)			38 to 46	38, 46	MCS0 Nss1
	802.11ac (VHT80)			42	42	MCS0 Nss1
	802.11ax (HE20)		OFDM	36 to 48	36, 44, 48	MCS0 Nss1
	802.11ax (HE40)			38 to 46	38, 46	MCS0 Nss1
	802.11ax (HE80)			42	42	MCS0 Nss1
	802.11a	5260-5320	OFDM	52 to 64	52, 60, 64	6 Mbps
	802.11ac (VHT20)		OFDM	52 to 64	52, 60, 64	MCS0 Nss1
	802.11ac (VHT40)			54 to 62	54, 62	MCS0 Nss1
	802.11ac (VHT80)			58	58	MCS0 Nss1
	802.11ax (HE20)		OFDM	52 to 64	52, 60, 64	MCS0 Nss1
	802.11ax (HE40)			54 to 62	54, 62	MCS0 Nss1
	802.11ax (HE80)			58	58	MCS0 Nss1
	802.11a	5500-5720	OFDM	100 to 144	100, 116, 140, 144	6 Mbps
	802.11ac (VHT20)		OFDM	100 to 144	100, 116, 140, 144	MCS0 Nss1
	802.11ac (VHT40)			102 to 142	102, 110, 134, 142	MCS0 Nss1
	802.11ac (VHT80)			106 to 138	106, 122, 138	MCS0 Nss1
	802.11ax (HE20)		OFDM	100 to 144	100, 116, 140, 144	MCS0 Nss1
	802.11ax (HE20)			102 to 142	102, 110, 134, 142	MCS0 Nss1
	802.11ax (HE20)			106 to 138	106, 122, 138	MCS0 Nss1
	802.11ax (HE20)			114	114	MCS0 Nss1
	802.11a	5745-5825	OFDM	149 to 165	149, 157, 165	6 Mbps
	802.11ac (VHT20)		OFDM	149 to 165	149, 157, 165	MCS0 Nss1
	802.11ac (VHT40)			151 to 159	151, 159	MCS0 Nss1
	802.11ac (VHT80)			155	155	MCS0 Nss1
	802.11ax (HE20)		OFDM	149 to 165	149, 157, 165	MCS0 Nss1
	802.11ax (HE40)			151 to 159	151, 159	MCS0 Nss1
	802.11ax (HE80)			155	155	MCS0 Nss1

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Radiated Emissions (Above 1GHz)	802.11a	5180-5240	OFDM	36 to 48	36, 44, 48	6 Mbps
	802.11a	5260-5320	OFDM	52 to 64	52, 60, 64	6 Mbps
	802.11a	5500-5720	OFDM	100 to 144	100, 116, 140, 144	6 Mbps
	802.11a	5745-5825	OFDM	149 to 165	149, 157, 165	6 Mbps
Radiated Emissions (Below 1GHz)	802.11a	5180-5240	OFDM	36 to 48	44	6 Mbps

- For the EUT, the PIFA antenna was assessed across three orthogonal axes: X-Y, Y-Z, and X-Z. The Y-Z plane was identified as the worst-case orientation. Therefore, all final radiated emission tests were performed with the PIFA antenna positioned in the Y-Z plane.
- Among the New available antennas No.12-23, No.13/19 exhibited the 5G Band highest gain and No.16/22 exhibited the 2.4G Band highest gain. After evaluation, Antenna No.13 (For 5G) and Antenna No.16 (For 2.4G) was identified as the worst-case configuration and was selected for final testing.
- Antenna No. 13 has the highest in-band gain and was used for all tests. Antenna No. 16 has the highest out-of-band gain and was add perform the radiated emissions testing above 1 GHz.
- The radiated spurious emission test was performed in all test modes. The worst case was 802.11a, and therefore, only the worst case data is shown in this report to represent all test modes.
- In the transmit mode, 802.11a channel 44 has the worst case of Tx spurious emission (above 1GHz). Therefore, all final tests for the spurious emission (below 1GHz) were performed using this worst-case mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Simultaneously transmission condition:

Condition	Technology	
1	BTLE	WLAN (5GHz)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070818	2025/3/12 2026/2/9	2026/3/11 2027/2/8
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2025/12/9	2026/12/8
Loop Antenna	ETS lindgren	6502	00213440	2025/11/14	2026/11/13
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT-N0538	2025/12/23	2026/12/22
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2025/11/18	2026/11/17
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2025/12/2	2026/12/1
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2025/5/12	2026/5/11
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2025/12/26	2026/12/25
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2025/4/7 2026/3/24	2026/4/6 2027/3/23
Cables (9k-18 GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2025/11/21	2026/11/20
Cables (18-40GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2025/11/21	2026/11/20
Antenna Port Conducted Measurement					
Signal Analyzer	Rohde & Schwarz	FSVA3044	101281	2025/3/5 2026/2/2	2026/3/4 2027/2/1
Signal Analyzer	Rohde & Schwarz	FSV40	101490	2025/6/17	2026/6/16
Attenuator	EMCI	EMC-40ATK2W10	17002	2025/10/28	2026/10/27
USB Power Sensor	Anritsu	MA24408A	12031	2025/6/24	2026/6/23
Temperature & Humidity Test Chamber	GIANT FORCE	GTH-150- 40-CP-AR	MAA1701-010	2025/2/25 2026/2/2	2026/2/24 2027/2/1

UL Software		
Description	Name	Version
Radiated measurement	e3	6.191211 (V6)
Conducted measurement	RF-Conducted-FCC 15407	ver 1.1
AC power Line Conducted Emission	EZ_EMCI	UL-3A1.2

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8. Description of Test Setup

Tx Mode

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	PC	GIGABYTE	GA-H81M-DS2	N/A	Supplied by Client
B	Fixture	AMPAK	UART_V07	N/A	Supplied by Client
C	EVB Board	AMPAK	EVB	N/A	Supplied by Client

I/O Cables

ID	Equipment	Brand Name	Model Name	Length (m)	Remark
1	SDIO extension cable	AMPAK	UART	0.8	Supplied by Client
2	USB Cable	AMPAK	USB	1.8	Supplied by Client
3	USB Cable	AMPAK	USB	1.8	Supplied by Client

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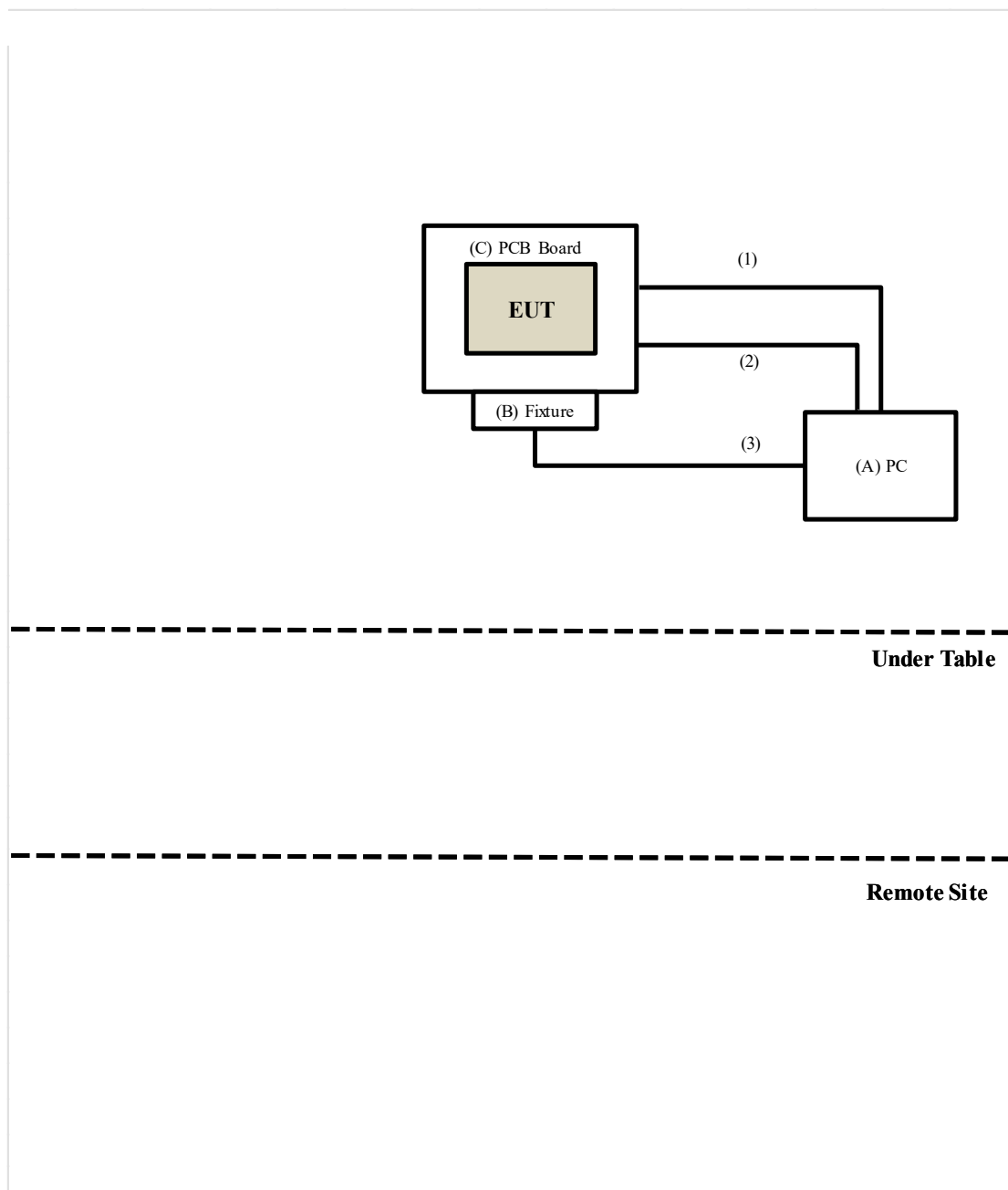
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Test Setup

Controlled using a bespoke application (WIFI : Typing RF command by terminal tool (ubuntu terminal)) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test

Tx Mode



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9. Test Results

9.1. Conducted Output Power

Requirements

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
		Fixed point-to-point Access Point	1 Watt (30 dBm) If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$
		Indoor Access Point	1 Watt (30 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	√	Client device	250mW (24 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-3	√		For Point-to-multipoint systems (P2M): 1 Watt (30 dBm). If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ For Point-to-point systems (P2P): 1 Watt (30 dBm)

Note:

- P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi, B is the 26 dB emission bandwidth in megahertz
- If EUT with Multiple Transmitter Output:
 - Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ant}]$ dBi.
 N_{ant} : Number of Transmit Antennas
 $G1, G2, \dots, Gn$: Gain of Individual Antennas
Example: two antenna and gain 5 dBi / 3dBi, so if it was used for TxBF power measurement
Directional Gain = $10 \log[(105/20 + 103/20)^2 / 2]$ dBi = 7.07 dBi
 - Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices, CDD
Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.
Example: Maximum antenna gain = 5 dBi and $NANT \leq 4$, so if it was used for CDD power measurement
Directional Gain = 5 dBi + Array Gain = 5 dBi + 0 dB = 5 dBi
 - For power measurement of KDB 662911 is used with multiple transmitter output. Total conducted power is the sum of the conducted power levels measured at the various output ports.
- Straddle Channel Power in each band = Straddle Channel Total Power * (Each band EBW / Straddle Channel Total EBW).
Example: if CH144 EBW (Total) = 20MHz, within UNII-2C Band is 15MHz, within UNII-3 Band is 5MHz,
Total Power = 20dBm.
Calculation for UNII-2C Band Power= 20dBm * (5/20) = 13.97 dBm
Calculation for UNII-3 Band Power= 20dBm * (15/20) = 18.75 dBm.

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Test Procedure

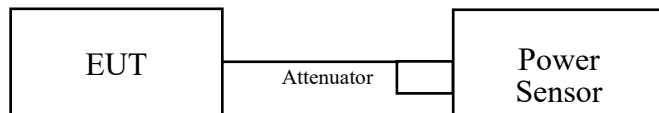
For Average Power Measurement

Test method PM

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 Setup

For Average Power Measurement



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

Test Data

Mode	CH	Freq. (MHz)	AVG Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
802.11a	36	5180	14.21	12.94	46.026	16.63	23.98	21.86	30	Pass
	44	5220	14.47	14.35	55.208	17.42	23.98	22.65	30	Pass
	48	5240	14.8	14.05	55.59	17.45	23.98	22.68	30	Pass
	52	5260	13.63	13.32	44.566	16.49	23.98	21.72	30	Pass
	60	5300	15.24	15.29	67.298	18.28	23.98	23.51	30	Pass
	64	5320	12.2	12.01	32.509	15.12	23.98	20.35	30	Pass
	100	5500	12.72	12.31	35.727	15.53	23.98	20.76	30	Pass
	116	5580	16.43	16.85	92.47	19.66	23.98	24.89	30	Pass
	140	5700	14.18	14.45	54.075	17.33	23.98	22.56	30	Pass
	144	5720	15.27	15.45	68.707	18.37	23.98	23.6	30	Pass
	2c-144	5720	13.12	13.82	44.566	16.49	22.96	21.72	30	Pass
	3-144	5720	11.19	10.41	24.155	13.83	30	19.06	36.02	Pass
	149	5745	17.11	18.52	122.462	20.88	30	26.11	36.02	Pass
	157	5785	18.3	19.08	148.594	21.72	30	26.95	36.02	Pass
	165	5825	18.12	18.69	138.676	21.42	30	26.65	36.02	Pass
802.11ac(VHT20)	36	5180	11.78	11.46	29.04	14.63	23.98	19.86	30	Pass
	44	5220	14.82	13.52	52.845	17.23	23.98	22.46	30	Pass
	48	5240	13.94	13.84	48.978	16.9	23.98	22.13	30	Pass
	52	5260	14.37	14.05	52.723	17.22	23.98	22.45	30	Pass
	60	5300	13.73	12.97	43.451	16.38	23.98	21.61	30	Pass
	64	5320	11.51	11.12	27.102	14.33	23.98	19.56	30	Pass
	100	5500	11.91	11.55	29.785	14.74	23.98	19.97	30	Pass
	116	5580	15.68	15.5	72.444	18.6	23.98	23.83	30	Pass
	140	5700	9.401	9.34	17.298	12.38	23.98	17.61	30	Pass
	144	5720	14.72	14.49	57.81	17.62	23.98	22.85	30	Pass
	2c-144	5720	12.88	12.47	37.068	15.69	22.98	20.92	30	Pass
	3-144	5720	10.1	10.2	20.701	13.16	30	18.39	36.02	Pass
	149	5745	15.52	15.71	72.946	18.63	30	23.86	36.02	Pass
	157	5785	16.98	17.92	111.944	20.49	30	25.72	36.02	Pass
	165	5825	16.08	16.9	89.536	19.52	30	24.75	36.02	Pass
802.11ac(VHT40)	38	5190	6.89	5.9	8.77	9.43	23.98	14.66	30	Pass
	46	5230	13	12.89	39.446	15.96	23.98	21.19	30	Pass
	54	5270	12.01	12.05	31.915	15.04	23.98	20.27	30	Pass
	62	5310	6.3	5.46	7.78	8.91	23.98	14.14	30	Pass
	102	5510	7.16	7.19	10.447	10.19	23.98	15.42	30	Pass
	110	5550	11.78	11.56	29.376	14.68	23.98	19.91	30	Pass
	134	5670	12.68	12.26	35.4	15.49	23.98	20.72	30	Pass
	142	5710	13.85	13.94	49.091	16.91	23.98	22.14	30	Pass
	2c-142	5710	11.92	12.14	31.915	15.04	23.98	20.27	30	Pass
	3-142	5710	9.4	9.25	17.14	12.34	30	17.57	36.02	Pass
	151	5755	15.56	15.16	68.707	18.37	30	23.6	36.02	Pass
	159	5795	14.56	14.33	55.719	17.46	30	22.69	36.02	Pass
802.11ac(VHT80)	42	5210	7.5	6.72	10.328	10.14	23.98	15.37	30	Pass
	58	5290	6.14	5.42	7.603	8.81	23.98	14.04	30	Pass
	106	5530	6.22	6.37	8.531	9.31	23.98	14.54	30	Pass
	122	5610	10.66	10.8	23.659	13.74	23.98	18.97	30	Pass
	138	5690	13.61	13.76	46.774	16.7	23.98	21.93	30	Pass
	2c-138	5690	11.72	12.21	31.477	14.98	23.98	20.21	30	Pass
	3-138	5690	9.09	8.54	15.241	11.83	30	17.06	36.02	Pass
	155	5775	12.47	12.2	34.277	15.35	30	20.58	36.02	Pass
802.11ax(HE20)	36	5180	12.67	12.33	35.563	15.51	23.98	20.74	30	Pass
	44	5220	15.65	14.4	64.269	18.08	23.98	23.31	30	Pass
	48	5240	14.82	14.72	59.979	17.78	23.98	23.01	30	Pass
	52	5260	15.26	14.92	64.565	18.1	23.98	23.33	30	Pass
	60	5300	14.57	13.89	53.088	17.25	23.98	22.48	30	Pass
	64	5320	12.4	12.01	33.266	15.22	23.98	20.45	30	Pass

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	100	5500	12.76	12.43	36.392	15.61	23.98	20.84	30	Pass
	116	5580	16.52	16.44	88.92	19.49	23.98	24.72	30	Pass
	140	5700	10.301	10.25	21.33	13.29	23.98	18.52	30	Pass
	144	5720	15.6	15.32	70.307	18.47	23.98	23.7	30	Pass
	2c-144	5720	13.76	13.3	45.186	16.55	22.98	21.78	30	Pass
	3-144	5720	10.98	11.03	25.235	14.02	30	19.25	36.02	Pass
	149	5745	16.5	16.68	91.201	19.6	30	24.83	36.02	Pass
	157	5785	17.89	18.9	138.995	21.43	30	26.66	36.02	Pass
802.11ax(HE40)	165	5825	17.01	17.8	110.408	20.43	30	25.66	36.02	Pass
	38	5190	7.72	6.85	10.765	10.32	23.98	15.55	30	Pass
	46	5230	13.86	13.76	48.084	16.82	23.98	22.05	30	Pass
	54	5270	12.9	12.92	39.084	15.92	23.98	21.15	30	Pass
	62	5310	7.25	6.31	9.594	9.82	23.98	15.05	30	Pass
	102	5510	8.07	8.01	12.735	11.05	23.98	16.28	30	Pass
	110	5550	12.64	12.51	36.224	15.59	23.98	20.82	30	Pass
	134	5670	13.5	13.17	43.152	16.35	23.98	21.58	30	Pass
	142	5710	14.79	14.77	60.117	17.79	23.98	23.02	30	Pass
	2c-142	5710	12.86	12.97	39.174	15.93	23.98	21.16	30	Pass
	3-142	5710	10.34	10.08	20.989	13.22	30	18.45	36.02	Pass
	151	5755	16.48	16.02	84.528	19.27	30	24.5	36.02	Pass
802.11ax(HE80)	159	5795	15.46	15.2	68.234	18.34	30	23.57	36.02	Pass
	42	5210	8.32	7.63	12.589	11	23.98	16.23	30	Pass
	58	5290	6.98	6.29	9.247	9.66	23.98	14.89	30	Pass
	106	5530	7.1	7.3	10.495	10.21	23.98	15.44	30	Pass
	122	5610	11.54	11.74	29.174	14.65	23.98	19.88	30	Pass
	138	5690	14.53	14.68	57.81	17.62	23.98	22.85	30	Pass
	2c-138	5690	12.64	13.13	38.905	15.9	23.98	21.13	30	Pass
	3-138	5690	10.01	9.46	18.836	12.75	30	17.98	36.02	Pass
	155	5775	13.39	13.1	42.267	16.26	30	21.49	36.02	Pass

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9.2. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, 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 20dB under any condition of modulation.

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Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8(dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		
5850~5895 MHz	RSS-247 clause 6.2.5.3	5725 MHz and below: PK:27 (dBm/MHz) ^{*1} PK:15.6 (dBm/MHz) ^{*2} PK:10 (dBm/MHz) ^{*3} PK:-27 (dBm/MHz) ^{*4} 5895 MHz and above: AV:-27 (dBm/MHz) ^{*a} AV:15&-7 (dBm/MHz) ^{*b} AV:-5&-27 (dBm/MHz) ^{*c}	5725 MHz and below: PK:122.2 (dBμV/m) ^{*1} PK:110.8 (dBμV/m) ^{*2} PK:105.2 (dBμV/m) ^{*3} PK:68.2 (dBμV/m) ^{*4} 5895 MHz and above: AV: 68.2 (dBμV/m) ^{*a} AV:110.2&88.2 (dBμV/m) ^{*b} AV:90.2&68.2 (dBμV/m) ^{*c}
	^{*1} 5 MHz below the 5725 MHz band edge. ^{*2} 5 MHz below the 5725 MHz band edge decreasing linearly to 10 dBm/MHz at 25 MHz below ^{*3} 25 MHz below the 5725 MHz band edge decreasing linearly to -27 dBm/MHz at 75 MHz below ^{*4} More than 75 MHz below the 5725 MHz band edge. ^{*a} Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge. ^{*b} Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz. ^{*c} Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.		

Note:

The following formula is used to convert the effective isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

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Test Procedures

[For 9 kHz ~ 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, perpendicular, and ground-parallel 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. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects 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.

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Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 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 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Peak

Frequency	RBW	VBW
9 kHz~150 kHz	200 Hz	600 Hz
150 kHz~30 MHz	10 kHz	30 kHz
30 MHz~1 GHz	120 kHz	360 kHz
Above 1GHz	1 MHz	3 MHz

Average for above 1GHz

RBW	VBW
1MHz	Refer to original report

- All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- Test data of Result value (dBuV/m) = Reading value (dBuV) + Correction Factor (dB/m).
- Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- Test data of Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
- Test data of Notation "@" = Fundamental Frequency
- Test data of Notation "*" = Only required peak limit or the peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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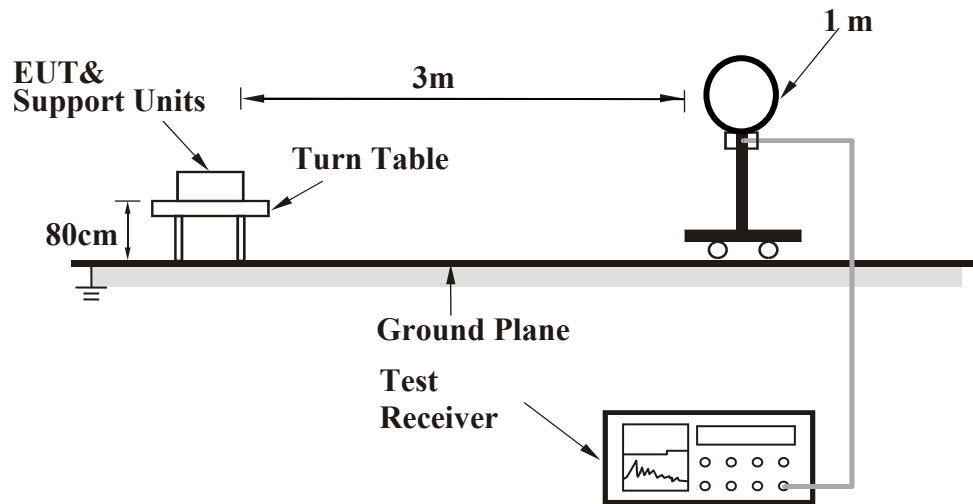
Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

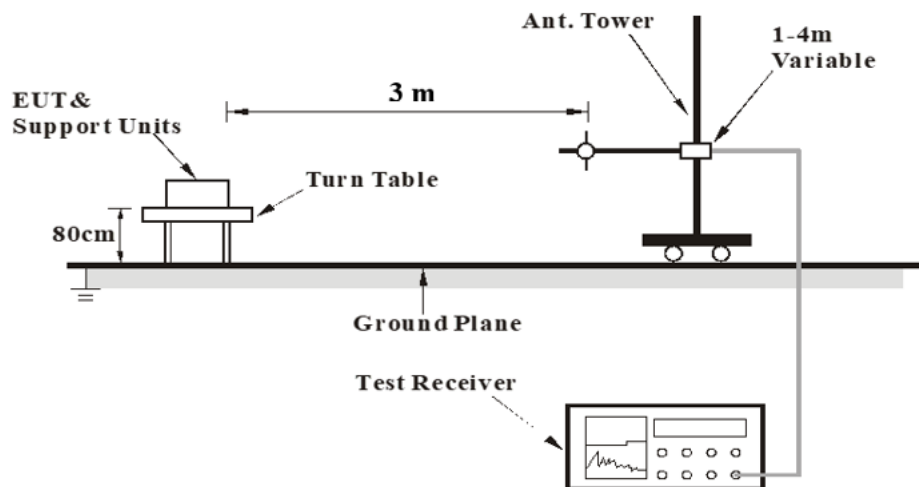
Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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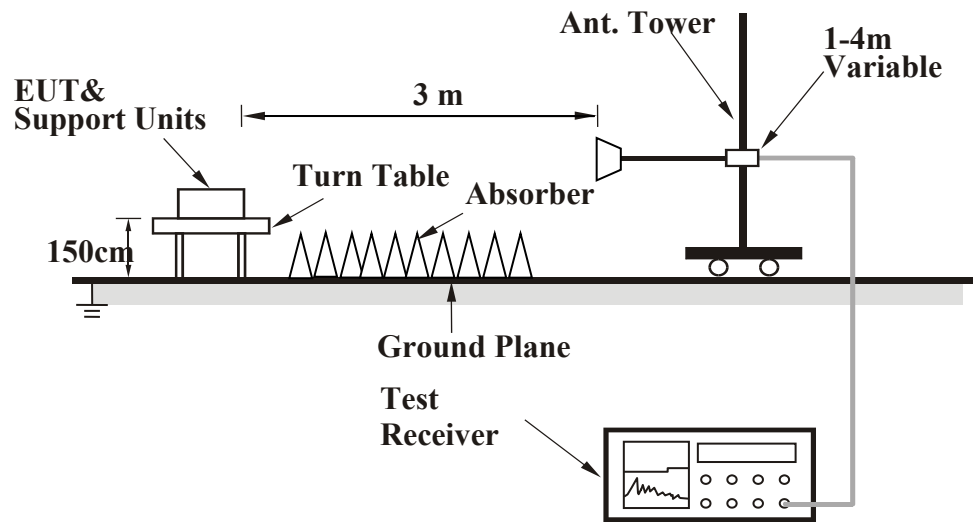
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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

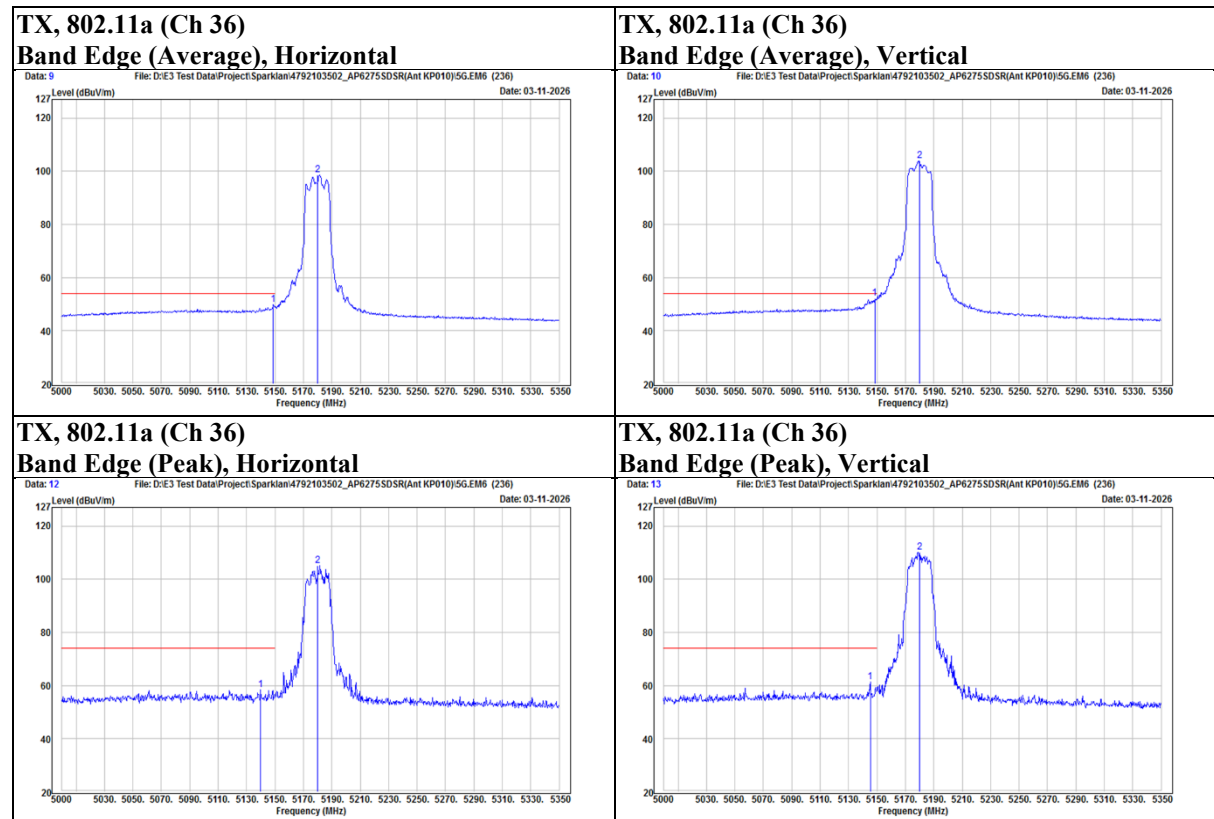
Test Data

ANTENNA NO.13 (RFA-25-KP010-4B-70)

Above 1 GHz

Mode	802.11a	Channel	36
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5140	42.89	15.55	58.44	74	-15.56	PK
		5148.75	34.42	15.52	49.94	54	-4.06	AVG
	@	5180	89.91	15.31	105.22	N/A	N/A	PK
	@	5180	83.46	15.31	98.77	N/A	N/A	AVG
Vertical		5145.25	45.8	15.53	61.33	74	-12.67	PK
		5148.4	36.78	15.53	52.31	54	-1.69	AVG
	@	5180	94.86	15.31	110.17	N/A	N/A	PK
	@	5180	88.56	15.31	103.87	N/A	N/A	AVG



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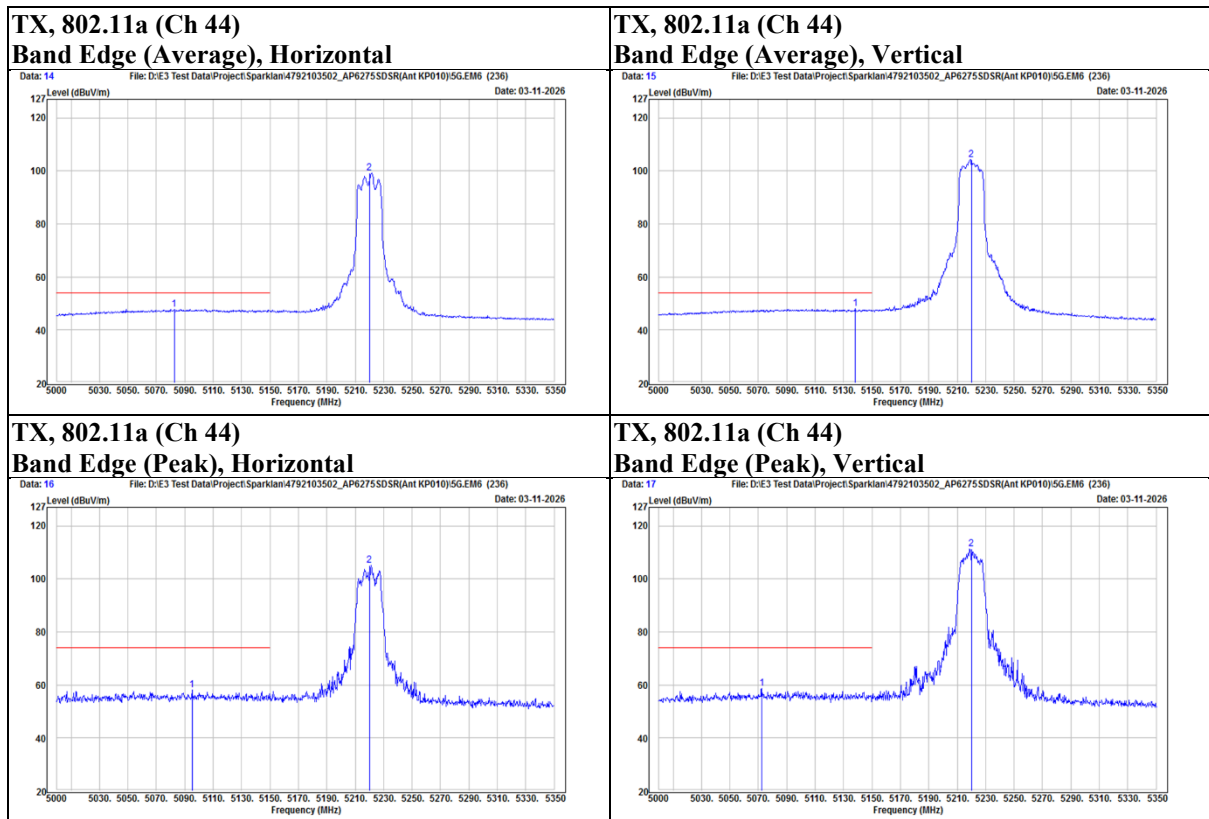
Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-3-583-7948

Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

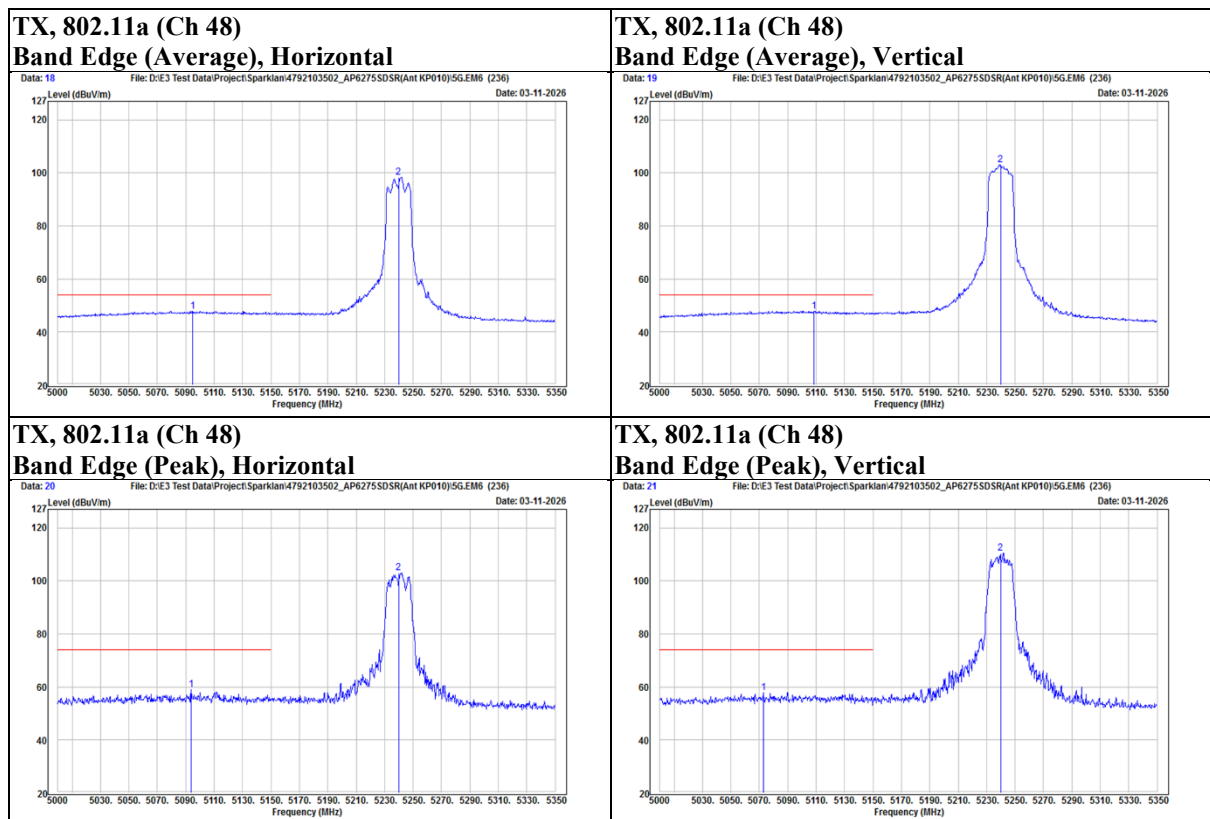
Mode	802.11a	Channel	44
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5082.6	32.37	15.5	47.87	54	-6.13	AVG
		5095.2	42.55	15.62	58.17	74	-15.83	PK
	@	5220	90	15.15	105.15	N/A	N/A	PK
	@	5220	83.97	15.15	99.12	N/A	N/A	AVG
Vertical		5072.45	43.32	15.41	58.73	74	-15.27	PK
		5138.25	32.43	15.55	47.98	54	-6.02	AVG
	@	5220	96.2	15.15	111.35	N/A	N/A	PK
	@	5220	89.24	15.15	104.39	N/A	N/A	AVG



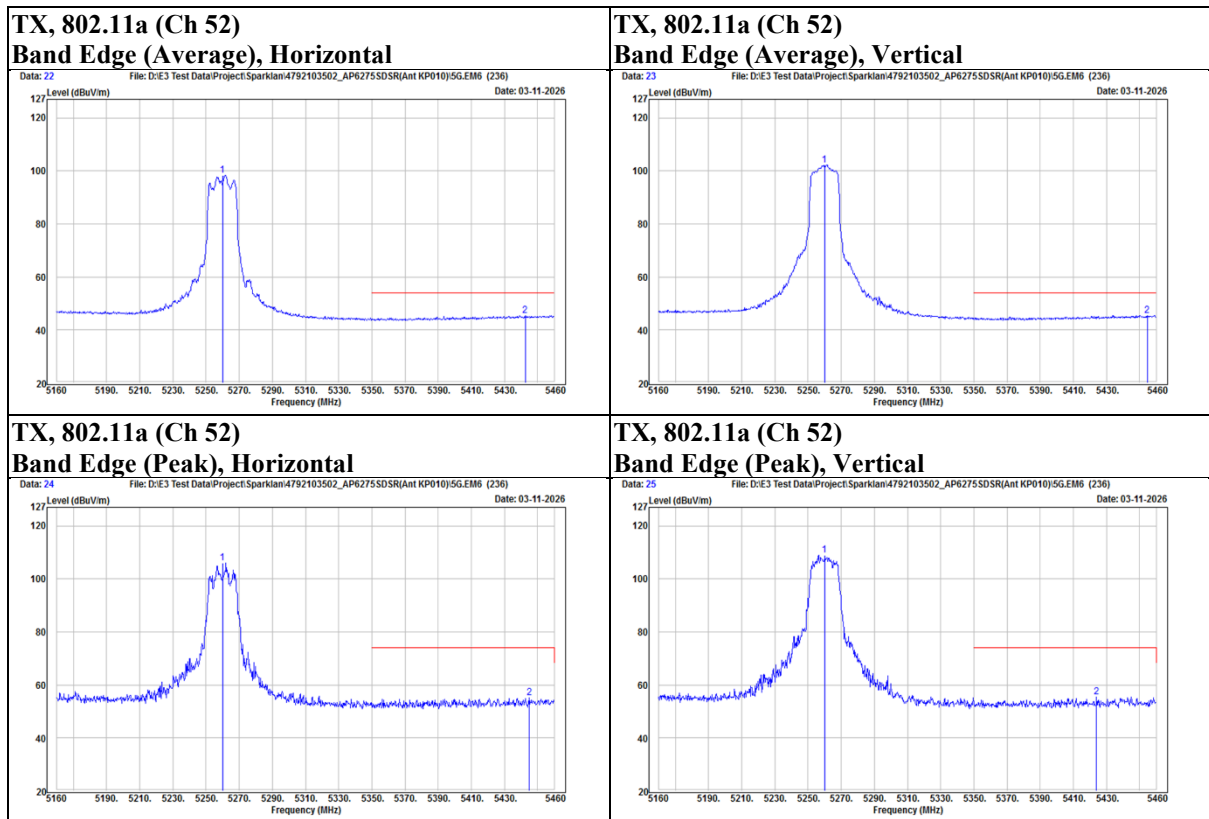
Mode	802.11a	Channel	48
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5093.8	43.32	15.61	58.93	74	-15.07	PK
		5094.85	32.22	15.62	47.84	54	-6.16	AVG
	@	5240	87.97	15.13	103.1	N/A	N/A	PK
	@	5240	83.22	15.13	98.35	N/A	N/A	AVG
Vertical		5073.15	42.51	15.42	57.93	74	-16.07	PK
		5108.5	32.25	15.64	47.89	54	-6.11	AVG
	@	5240	95.22	15.13	110.35	N/A	N/A	PK
	@	5240	88.07	15.13	103.2	N/A	N/A	AVG



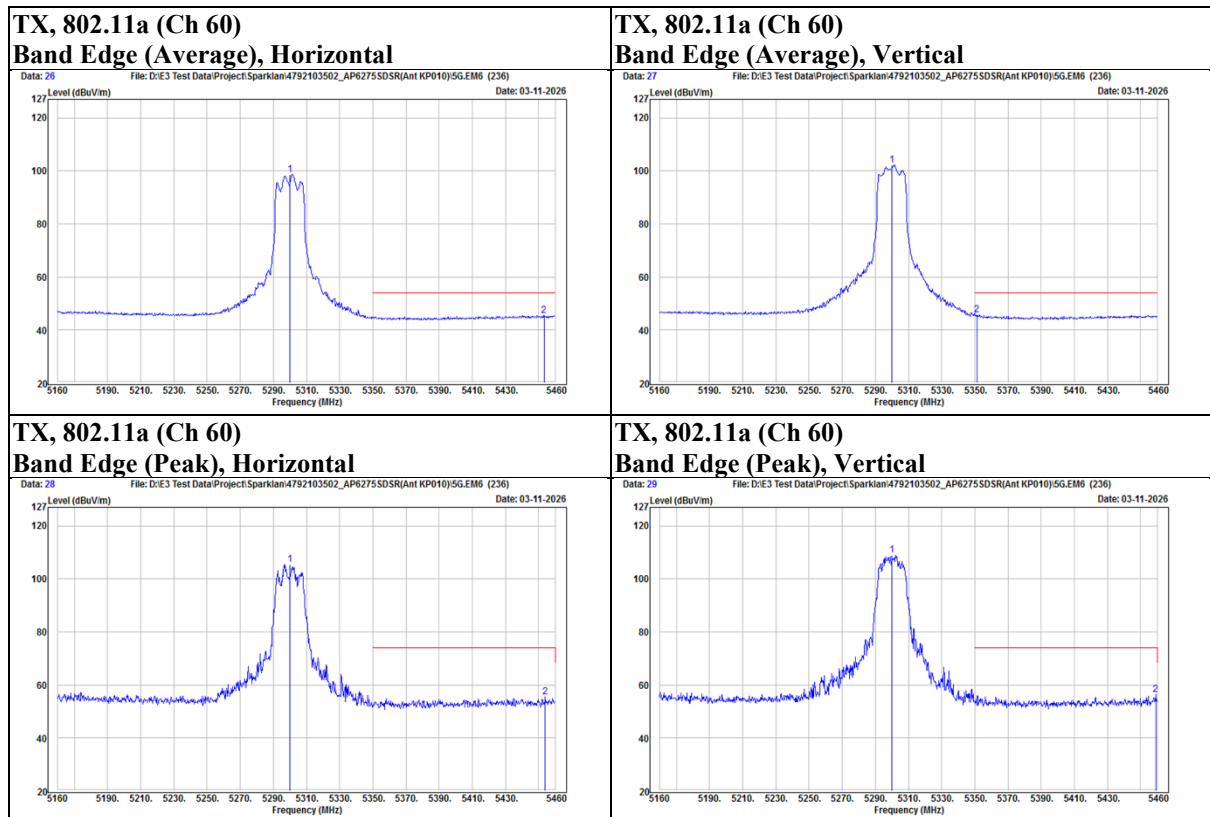
Mode	802.11a	Channel	52
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5260	90.88	15.1	105.98	N/A	N/A	PK
	@	5260	83.24	15.1	98.34	N/A	N/A	AVG
		5442.6	29.78	15.56	45.34	54	-8.66	AVG
		5445	39.65	15.59	55.24	74	-18.76	PK
Vertical	@	5260	93.78	15.1	108.88	N/A	N/A	PK
	@	5260	87.16	15.1	102.26	N/A	N/A	AVG
		5424	40.12	15.4	55.52	74	-18.48	PK
		5454.6	29.81	15.67	45.48	54	-8.52	AVG



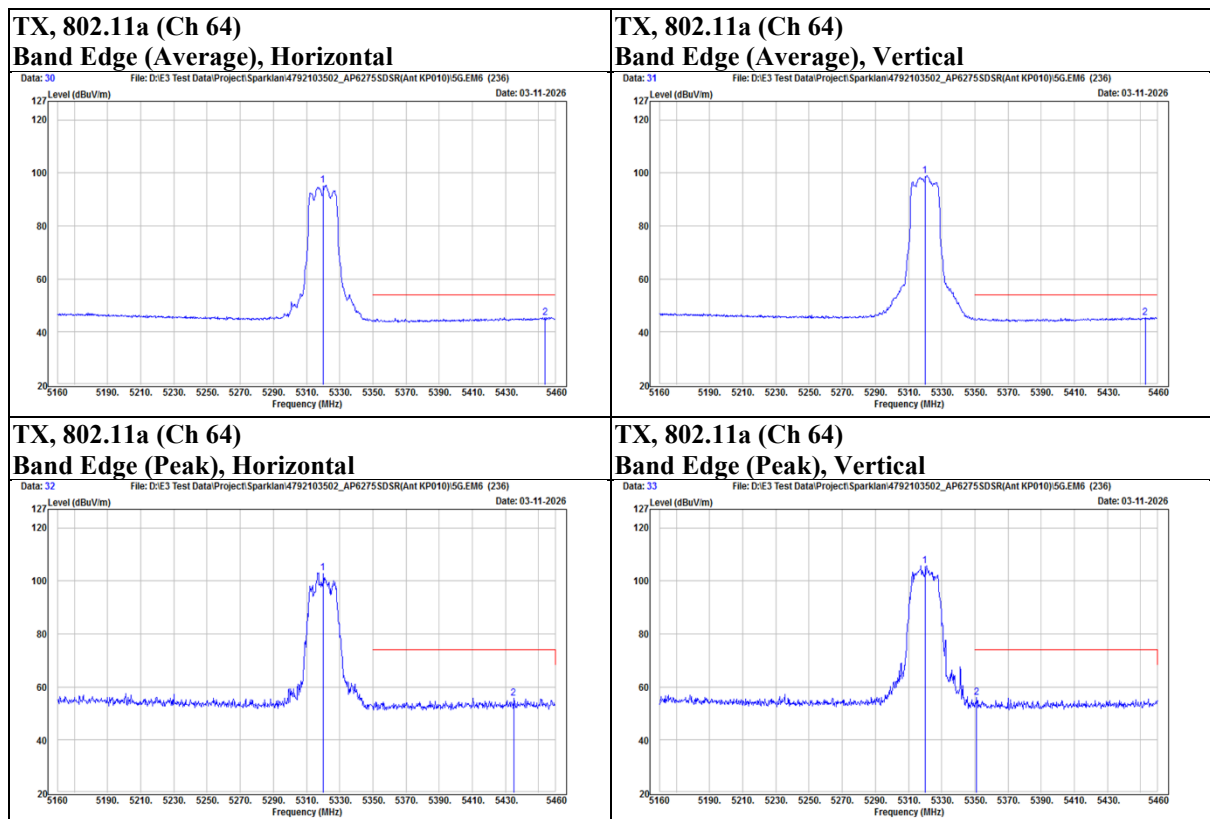
Mode	802.11a	Channel	60
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5300	90.33	14.97	105.3	N/A	N/A	PK
	@	5300	83.52	14.97	98.49	N/A	N/A	AVG
		5453.4	29.77	15.66	45.43	54	-8.57	AVG
		5454	39.73	15.66	55.39	74	-18.61	PK
Vertical	@	5300	93.86	14.97	108.83	N/A	N/A	PK
	@	5300	87.21	14.97	102.18	N/A	N/A	AVG
		5351.4	30.81	14.84	45.65	54	-8.35	AVG
		5459.1	40.69	15.68	56.37	74	-17.63	PK



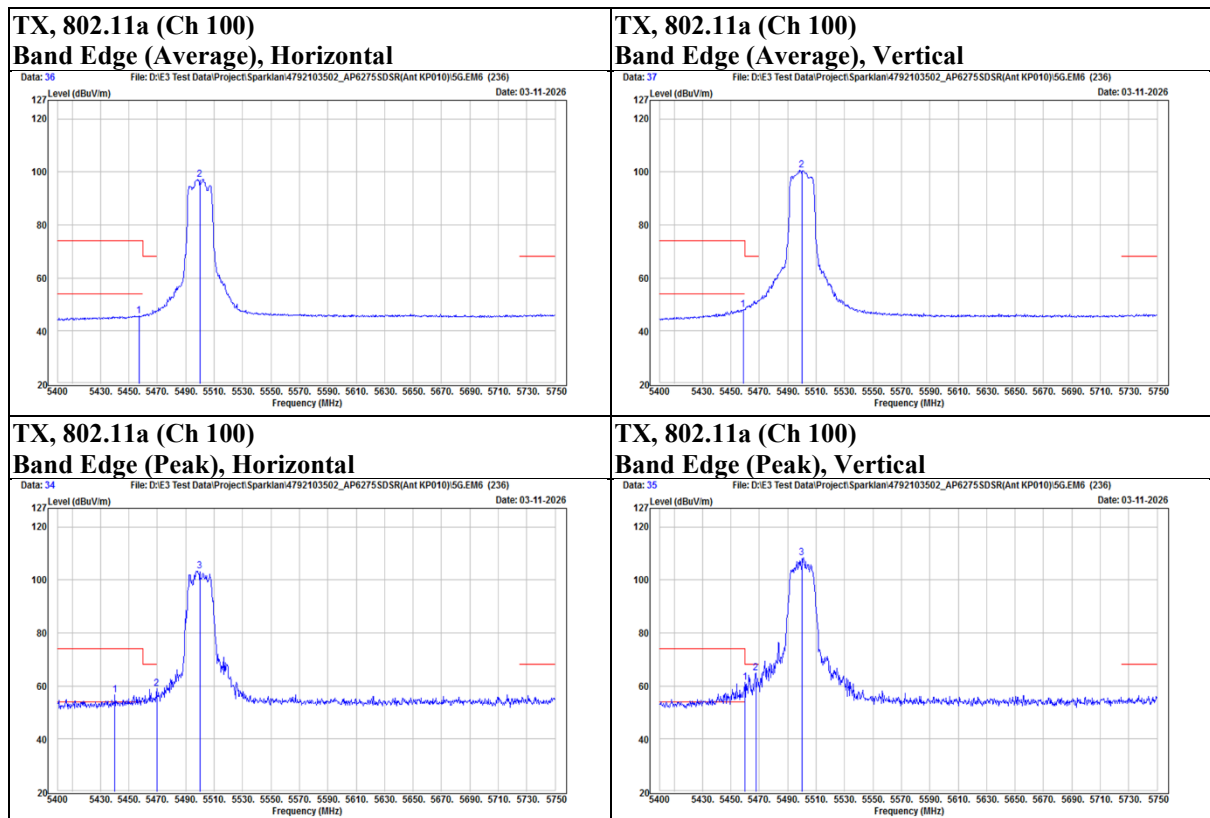
Mode	802.11a	Channel	64
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5320	88.2	14.91	103.11	N/A	N/A	PK
	@	5320	80.43	14.91	95.34	N/A	N/A	AVG
		5435.1	40.24	15.49	55.73	74	-18.27	PK
		5454	29.83	15.66	45.49	54	-8.51	AVG
Vertical	@	5320	90.85	14.91	105.76	N/A	N/A	PK
	@	5320	84.09	14.91	99	N/A	N/A	AVG
		5351.1	41.36	14.84	56.2	74	-17.8	PK
		5452.8	29.77	15.66	45.43	54	-8.57	AVG



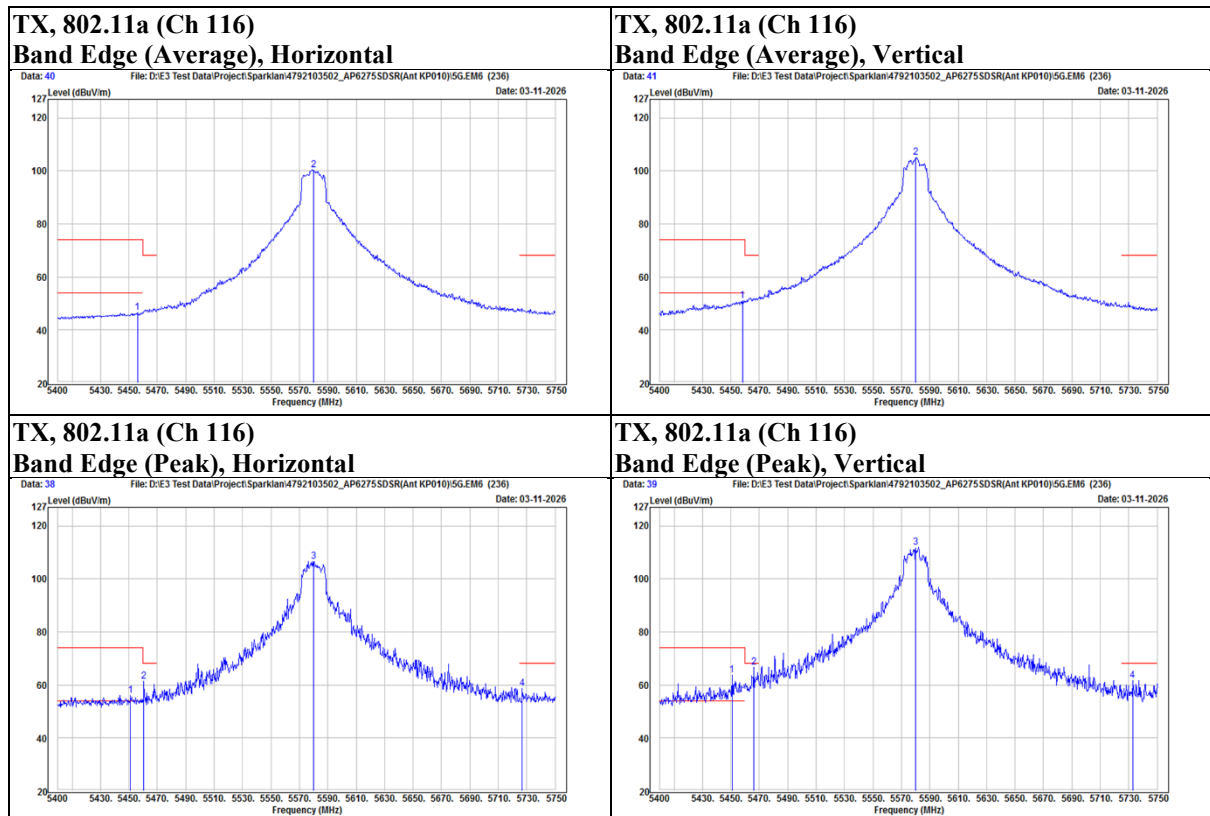
Mode	802.11a	Channel	100
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5440.25	41.15	15.54	56.69	74	-17.31	PK
		5457.05	30.14	15.68	45.82	54	-8.18	AVG
		5469.65	43.37	15.77	59.14	68.2	-9.06	PK
	@	5500	87.52	15.98	103.5	N/A	N/A	PK
	@	5500	81.22	15.98	97.2	N/A	N/A	AVG
Vertical		5458.8	32.54	15.68	48.22	54	-5.78	AVG
		5459.85	45.81	15.7	61.51	74	-12.49	PK
		5467.55	49.18	15.76	64.94	68.2	-3.26	PK
	@	5500	92.27	15.98	108.25	N/A	N/A	PK
	@	5500	84.59	15.98	100.57	N/A	N/A	AVG



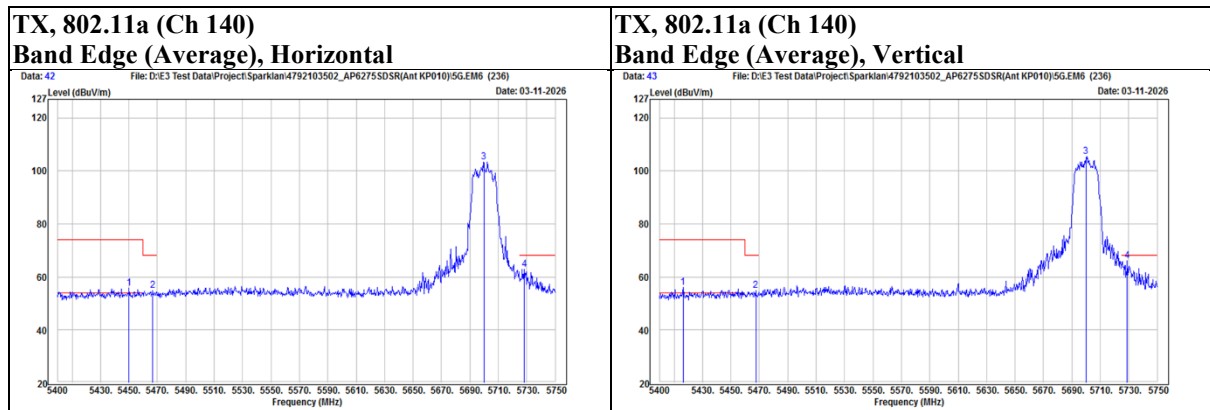
Mode	802.11a	Channel	116
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5451.1	40.34	15.64	55.98	74	-18.02	PK
		5456	30.86	15.68	46.54	54	-7.46	AVG
		5460.55	45.55	15.7	61.25	68.2	-6.95	PK
	@	5580	90.99	15.74	106.73	N/A	N/A	PK
	@	5580	84.8	15.74	100.54	N/A	N/A	AVG
		5726.9	42.91	15.86	58.77	68.2	-9.43	PK
Vertical		5450.75	48.25	15.63	63.88	74	-10.12	PK
		5458.1	35.25	15.69	50.94	54	-3.06	AVG
		5466.15	50.93	15.74	66.67	68.2	-1.53	PK
	@	5580	96.23	15.74	111.97	N/A	N/A	PK
	@	5580	89.31	15.74	105.05	N/A	N/A	AVG
		5732.85	45.78	15.9	61.68	68.2	-6.52	PK



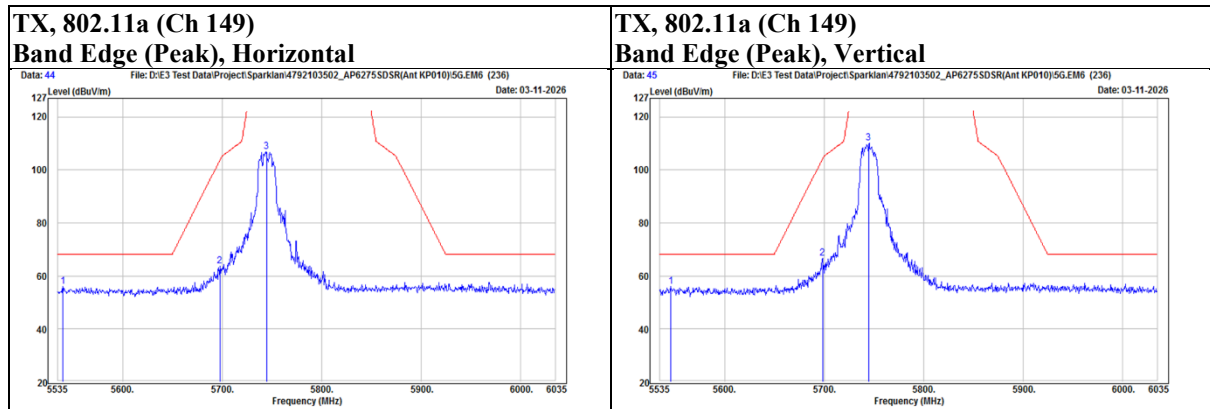
Mode	802.11a	Channel	140
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5450.05	40.02	15.63	55.65	74	-18.35	PK
		5466.85	39.21	15.74	54.95	68.2	-13.25	PK
	@	5700	87.76	15.67	103.43	N/A	N/A	PK
		5728.3	47.09	15.88	62.97	68.2	-5.23	PK
Vertical		5416.45	40.59	15.33	55.92	74	-18.08	PK
		5467.55	39.06	15.76	54.82	68.2	-13.38	PK
	@	5700	89.84	15.67	105.51	N/A	N/A	PK
		5729	50.37	15.88	66.25	68.2	-1.95	PK



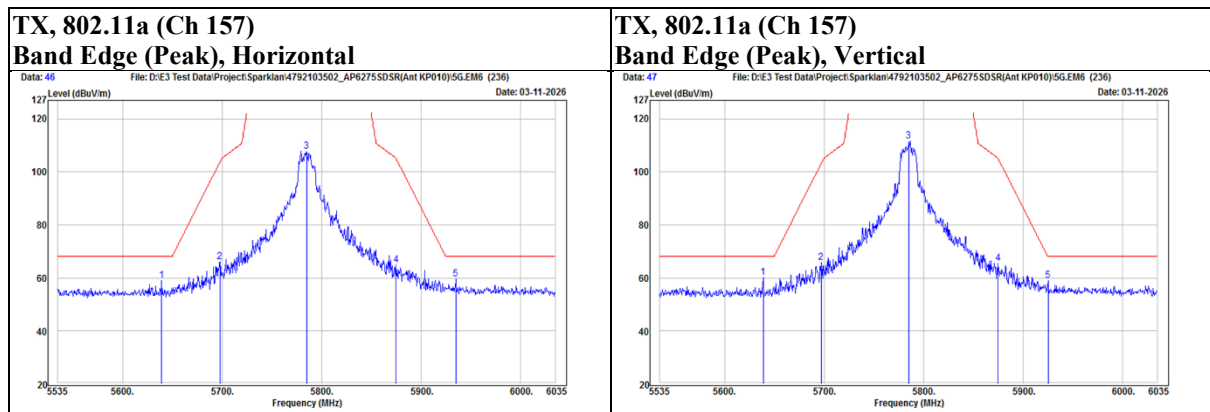
Mode	802.11a	Channel	149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		5540	40.06	15.86	55.92	68.2	-12.28	PK
		5698	47.98	15.67	63.65	103.73	-40.08	PK
	@	5745	90.82	15.99	106.81	N/A	N/A	PK
Vertical		5546	40.2	15.85	56.05	68.2	-12.15	PK
		5698.5	51.06	15.67	66.73	104.09	-37.36	PK
	@	5745	94.02	15.99	110.01	N/A	N/A	PK



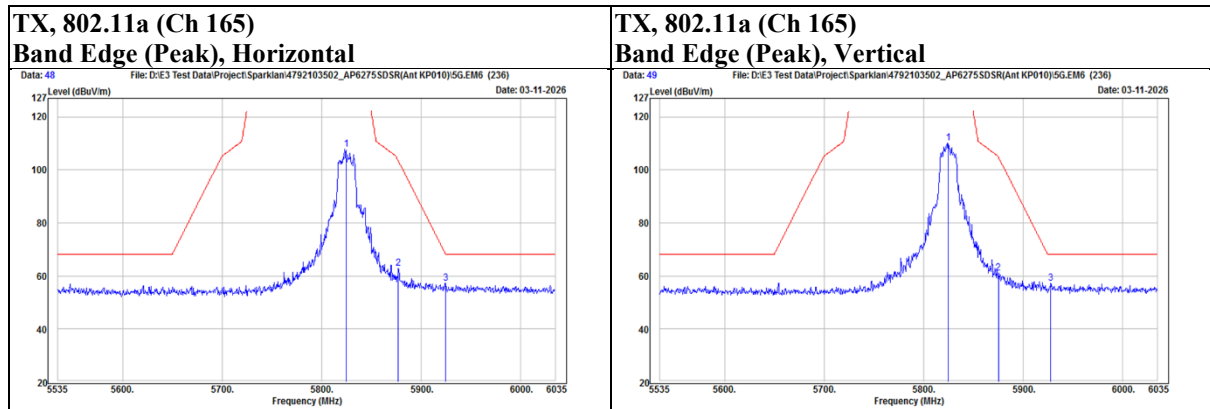
Mode	802.11a	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5639.5	43.29	15.64	58.93	68.2	-9.27	PK
		5698	50.34	15.67	66.01	103.73	-37.72	PK
		5785	91.63	16.19	107.82	N/A	N/A	PK
		5875	48.23	16.74	64.97	105.2	-40.23	PK
		5935	42.73	16.76	59.49	68.2	-8.71	PK
Vertical	@	5639	44.44	15.64	60.08	68.2	-8.12	PK
		5697	50	15.67	65.67	102.99	-37.32	PK
		5785	95.37	16.19	111.56	N/A	N/A	PK
		5875	48.66	16.74	65.4	105.2	-39.8	PK
		5925.5	42.11	16.79	58.9	68.2	-9.3	PK



Mode	802.11a	Channel	165
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	5825	91.3	16.44	107.74	N/A	N/A	PK
		5877.5	45.96	16.75	62.71	103.34	-40.63	PK
		5925	40.38	16.78	57.16	68.2	-11.04	PK
Vertical	@	5825	93.62	16.44	110.06	N/A	N/A	PK
		5875.5	44.46	16.74	61.2	104.83	-43.63	PK
		5928	40.43	16.78	57.21	68.2	-10.99	PK



Mode	802.11a - Emission	Channel	36
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3880	46.17	1.73	47.9	74	-26.1	PK
		5980	43.1	6.79	49.89	68.2	-18.31	PK
	*	10360	32.59	19.97	52.56	68.2	-15.64	PK
		14485	29.44	27.98	57.42	74	-16.58	PK
		14485	19.96	27.98	47.94	54	-6.06	AVG
		15520	29.71	25.84	55.55	74	-18.45	PK
		15520	20.88	25.84	46.72	54	-7.28	AVG
	*	20720	32.5	4.98	37.48	74	-36.52	PK
	*	25900	33.12	10.72	43.84	68.2	-24.36	PK
	*	31080	32.33	13.27	45.6	68.2	-22.6	PK
	*	36260	35.71	13.44	49.15	68.2	-19.05	PK
		39352	37.56	17.3	54.86	74	-19.14	PK
		39352	27.72	17.3	45.02	54	-8.98	AVG
Vertical		3880	51.67	1.73	53.4	74	-20.6	PK
		5980	40.12	6.79	46.91	68.2	-21.29	PK
	*	10360	31.68	19.97	51.65	68.2	-16.55	PK
		14485	29.79	27.98	57.77	74	-16.23	PK
		14485	19.84	27.98	47.82	54	-6.18	AVG
		15355	29.21	26.36	55.57	74	-18.43	PK
		15355	20.38	26.36	46.74	54	-7.26	AVG
	*	20720	33.58	4.98	38.56	74	-35.44	PK
	*	25900	34.2	10.72	44.92	68.2	-23.28	PK
	*	31080	32.51	13.27	45.78	68.2	-22.42	PK
	*	36260	36.68	13.44	50.12	68.2	-18.08	PK
		39856	37.27	17.85	55.12	74	-18.88	PK
		39856	27.43	17.85	45.28	54	-8.72	AVG

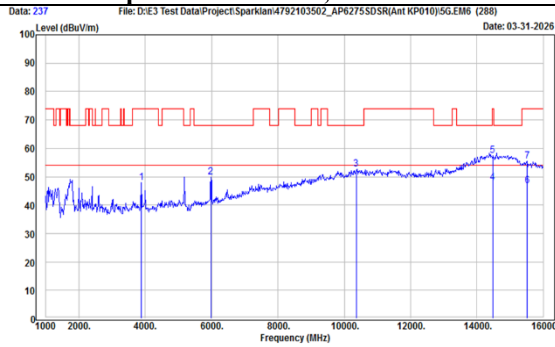
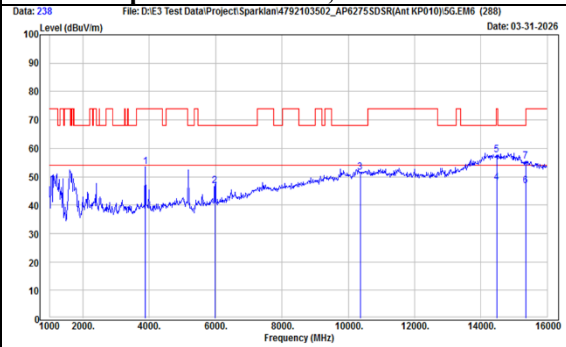
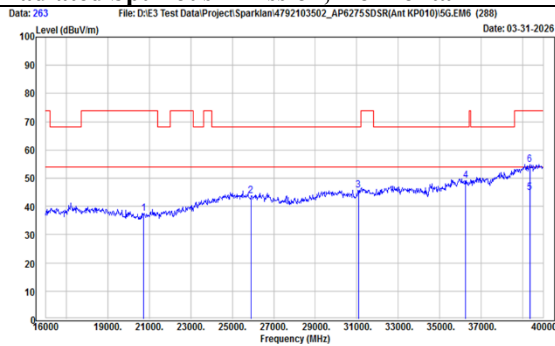
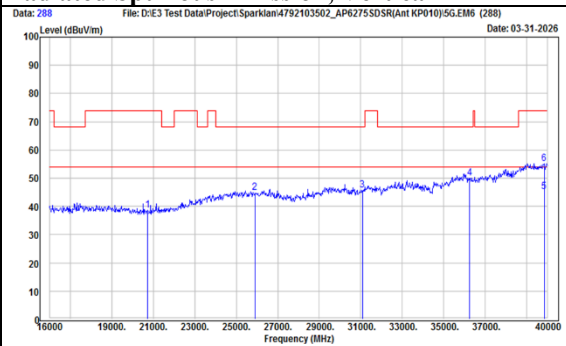
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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

TX, 802.11a - Emission (Ch 36)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 36)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 36)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 36)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	44
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3985	45.6	2.06	47.66	74	-26.34	PK
		5965	38.85	6.75	45.6	68.2	-22.6	PK
	*	10440	30.89	20.28	51.17	68.2	-17.03	PK
		14470	28.48	27.97	56.45	68.2	-11.75	PK
		14470	19.91	27.97	47.88	54	-6.12	AVG
		15805	30.13	25.26	55.39	74	-18.61	PK
		15805	21.3	25.26	46.56	54	-7.44	AVG
	*	20880	33.34	5.19	38.53	74	-35.47	PK
	*	26100	33.73	10.69	44.42	68.2	-23.78	PK
	*	31320	32.96	14.24	47.2	74	-26.8	PK
	*	36540	36.57	12.59	49.16	68.2	-19.04	PK
		39256	38.16	17.32	55.48	74	-18.52	PK
		39256	28.32	17.32	45.64	54	-8.36	AVG
		3910	49.49	2.01	51.5	74	-22.5	PK
Vertical		5995	41.96	6.83	48.79	68.2	-19.41	PK
	*	10440	31.18	20.28	51.46	68.2	-16.74	PK
		14500	28.53	28	56.53	68.2	-11.67	PK
		14500	19.96	28	47.96	54	-6.04	AVG
		15460	29.14	26.02	55.16	74	-18.84	PK
		15460	20.31	26.02	46.33	54	-7.67	AVG
	*	20880	35.04	5.19	40.23	74	-33.77	PK
	*	26100	34.83	10.69	45.52	68.2	-22.68	PK
	*	31320	33	14.24	47.24	74	-26.76	PK
	*	36540	37.83	12.59	50.42	68.2	-17.78	PK
		39472	38.19	17.28	55.47	74	-18.53	PK
		39472	28.35	17.28	45.63	54	-8.37	AVG

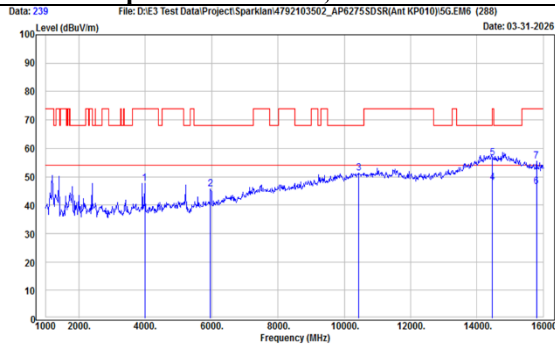
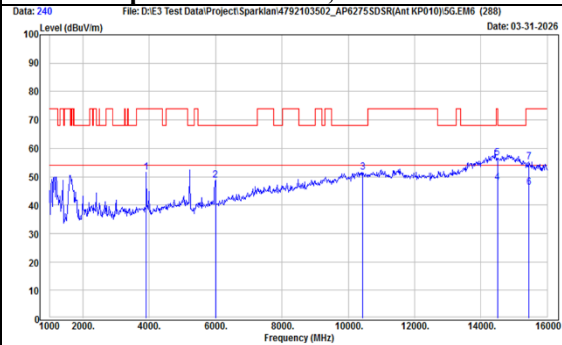
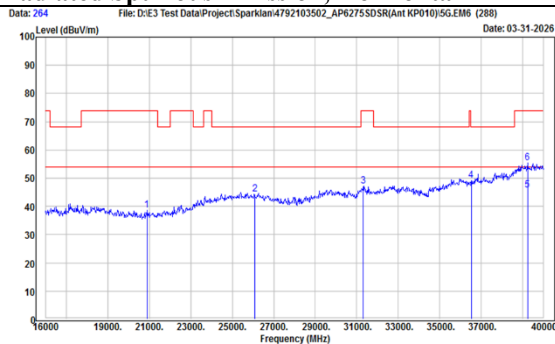
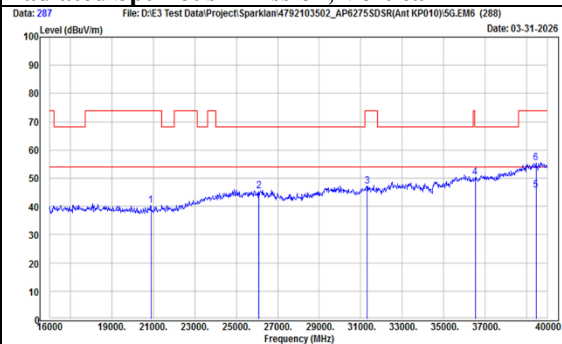
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TX, 802.11a - Emission (Ch 44)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 44)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 44)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 44)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	48
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3925	43.17	2.15	45.32	74	-28.68	PK
		5980	40.2	6.79	46.99	68.2	-21.21	PK
	*	10480	31.09	20.38	51.47	68.2	-16.73	PK
		14500	28.15	28	56.15	68.2	-12.05	PK
		14500	19.58	28	47.58	54	-6.42	AVG
		15445	29.18	26.05	55.23	74	-18.77	PK
		15445	20.35	26.05	46.4	54	-7.6	AVG
	*	20960	32.05	5.28	37.33	74	-36.67	PK
	*	26200	34.48	10.75	45.23	68.2	-22.97	PK
	*	31440	32.3	13.67	45.97	74	-28.03	PK
	*	36680	36.76	12.83	49.59	68.2	-18.61	PK
		39736	37.32	17.63	54.95	74	-19.05	PK
		39736	27.48	17.63	45.11	54	-8.89	AVG
Vertical		3925	49.31	2.15	51.46	74	-22.54	PK
		5980	39.44	6.79	46.23	68.2	-21.97	PK
	*	10480	32.4	20.38	52.78	68.2	-15.42	PK
		14500	27.81	28	55.81	68.2	-12.39	PK
		14500	19.24	28	47.24	54	-6.76	AVG
		15505	28.71	25.9	54.61	74	-19.39	PK
		15505	19.88	25.9	45.78	54	-8.22	AVG
	*	20960	34.07	5.28	39.35	74	-34.65	PK
	*	26200	34.58	10.75	45.33	68.2	-22.87	PK
	*	31440	33.63	13.67	47.3	74	-26.7	PK
	*	36680	37.82	12.83	50.65	68.2	-17.55	PK
		39424	38.08	17.29	55.37	74	-18.63	PK
		39424	28.24	17.29	45.53	54	-8.47	AVG

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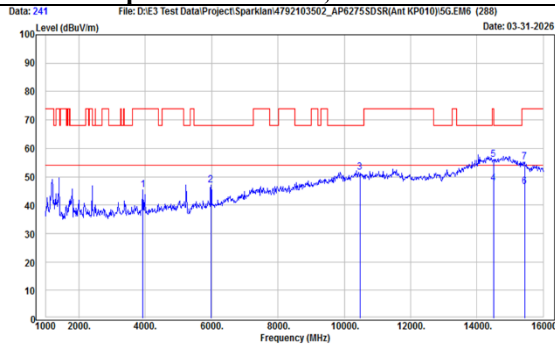
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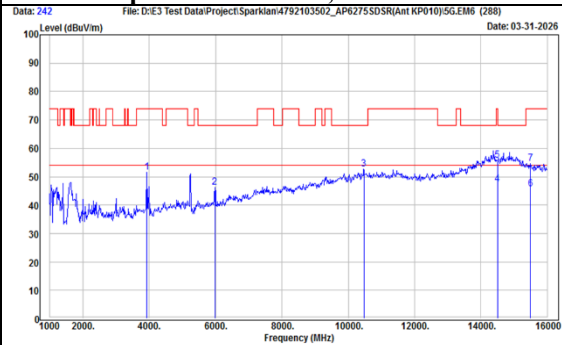
TX, 802.11a - Emission (Ch 48)

Radiated Spurious Emission, Horizontal



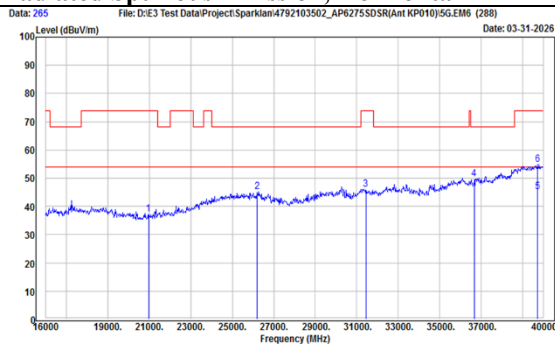
TX, 802.11a - Emission (Ch 48)

Radiated Spurious Emission, Vertical



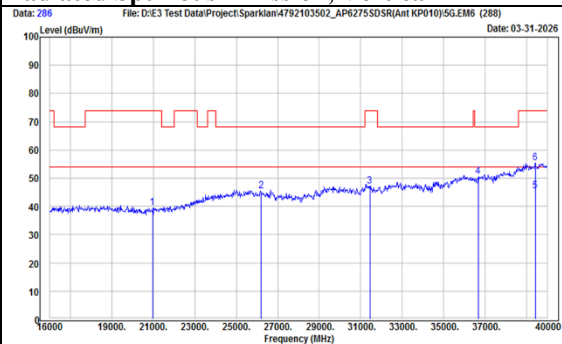
TX, 802.11a - Emission (Ch 48)

Radiated Spurious Emission, Horizontal



TX, 802.11a - Emission (Ch 48)

Radiated Spurious Emission, Vertical



Mode	802.11a - Emission	Channel	52
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3940	44.11	2.28	46.39	74	-27.61	PK
		5980	39.72	6.79	46.51	68.2	-21.69	PK
	*	10520	31.42	20.42	51.84	68.2	-16.36	PK
		14500	27.93	28	55.93	68.2	-12.27	PK
		14500	19.36	28	47.36	54	-6.64	AVG
		15400	28.53	26.14	54.67	74	-19.33	PK
		15400	19.7	26.14	45.84	54	-8.16	AVG
	*	21040	31.83	5.42	37.25	74	-36.75	PK
	*	26300	33.14	10.86	44	68.2	-24.2	PK
	*	31560	32.92	13.28	46.2	74	-27.8	PK
	*	36820	37.11	13.12	50.23	68.2	-17.97	PK
		39976	36.95	18.09	55.04	74	-18.96	PK
		39976	27.11	18.09	45.2	54	-8.8	AVG
		3940	48.84	2.28	51.12	74	-22.88	PK
		5980	39.34	6.79	46.13	68.2	-22.07	PK
Vertical	*	10520	30.65	20.42	51.07	68.2	-17.13	PK
		14470	28.56	27.97	56.53	68.2	-11.67	PK
		14470	19.99	27.97	47.96	54	-6.04	AVG
		15385	29.05	26.22	55.27	74	-18.73	PK
		15385	20.22	26.22	46.44	54	-7.56	AVG
	*	21040	33.99	5.42	39.41	74	-34.59	PK
	*	26300	34.57	10.86	45.43	68.2	-22.77	PK
	*	31560	33.58	13.28	46.86	74	-27.14	PK
	*	36820	38.3	13.12	51.42	68.2	-16.78	PK
		39424	38.42	17.29	55.71	74	-18.29	PK
		39424	28.58	17.29	45.87	54	-8.13	AVG

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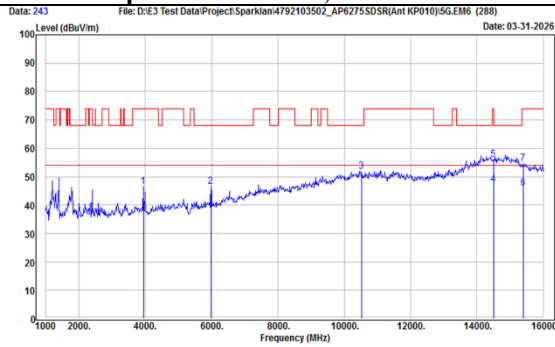
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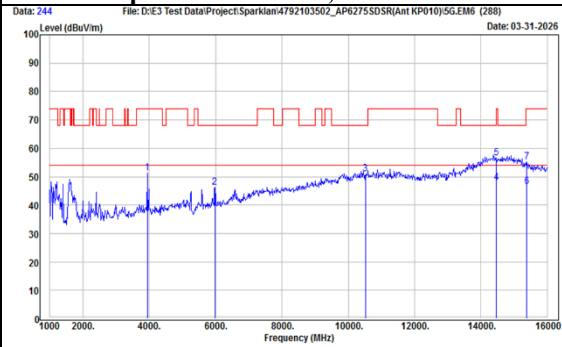
TX, 802.11a - Emission (Ch 52)

Radiated Spurious Emission, Horizontal



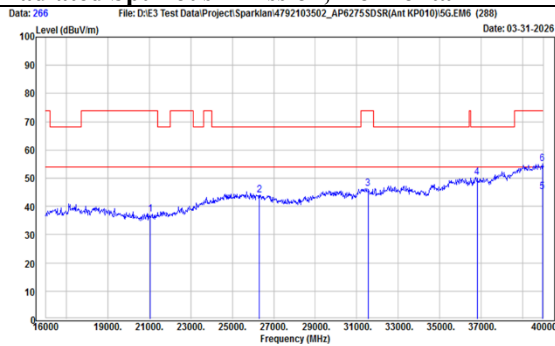
TX, 802.11a - Emission (Ch 52)

Radiated Spurious Emission, Vertical



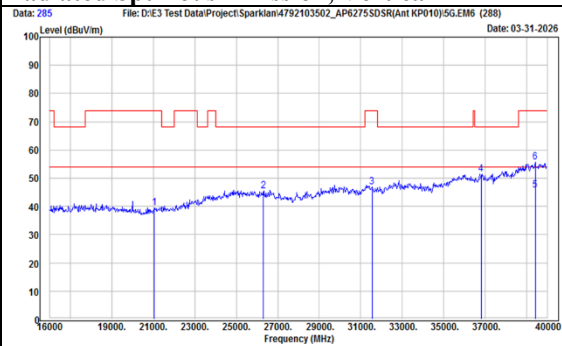
TX, 802.11a - Emission (Ch 52)

Radiated Spurious Emission, Horizontal



TX, 802.11a - Emission (Ch 52)

Radiated Spurious Emission, Vertical



Mode	802.11a - Emission	Channel	60
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3985	43.94	2.06	46	74	-28	PK
		5980	38.72	6.79	45.51	68.2	-22.69	PK
	*	10600	30.16	20.32	50.48	74	-23.52	PK
		14485	28.98	27.98	56.96	74	-17.04	PK
		14485	19.96	27.98	47.94	54	-6.06	AVG
		15730	29.55	25.37	54.92	74	-19.08	PK
		15730	20.72	25.37	46.09	54	-7.91	AVG
	*	21200	31.09	5.69	36.78	74	-37.22	PK
	*	26500	32.63	11.14	43.77	68.2	-24.43	PK
	*	31800	33.35	12.89	46.24	68.2	-21.96	PK
	*	37100	37.04	13.59	50.63	68.2	-17.57	PK
		39352	37.48	17.3	54.78	74	-19.22	PK
		39352	27.64	17.3	44.94	54	-9.06	AVG
		3940	49.01	2.28	51.29	74	-22.71	PK
Vertical		5980	38.39	6.79	45.18	68.2	-23.02	PK
	*	10600	30.51	20.32	50.83	74	-23.17	PK
		14500	29.2	28	57.2	68.2	-11	PK
		14500	19.72	28	47.72	54	-6.28	AVG
		15430	28.98	26.08	55.06	74	-18.94	PK
		15430	20.15	26.08	46.23	54	-7.77	AVG
	*	21200	33.65	5.69	39.34	74	-34.66	PK
	*	26500	34.65	11.14	45.79	68.2	-22.41	PK
	*	31800	35.17	12.89	48.06	68.2	-20.14	PK
	*	37100	36.24	13.59	49.83	68.2	-18.37	PK
		39880	37.81	17.9	55.71	74	-18.29	PK
		39880	27.97	17.9	45.87	54	-8.13	AVG

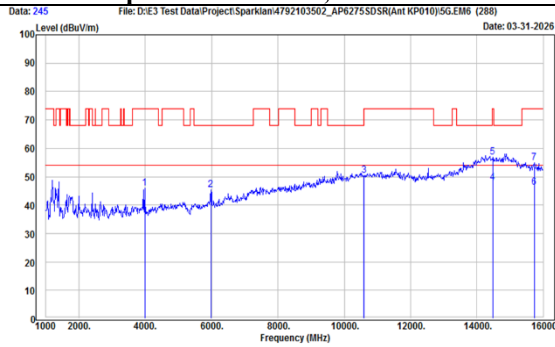
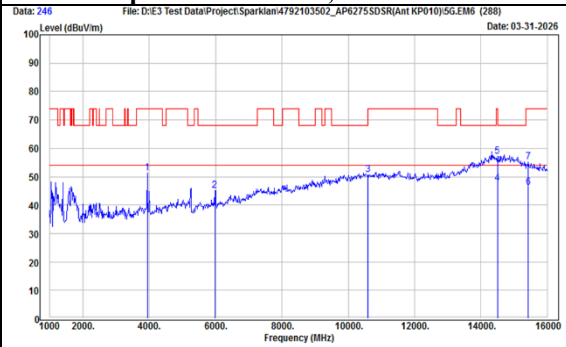
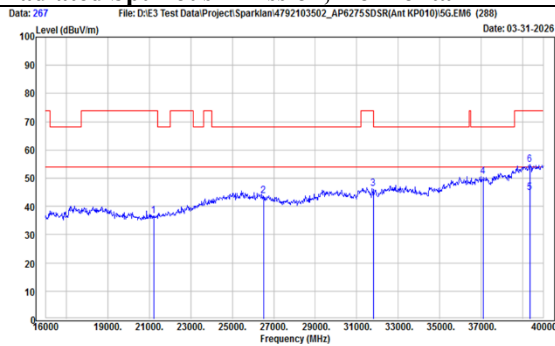
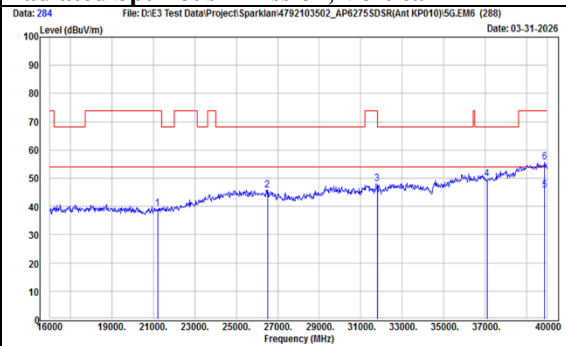
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TX, 802.11a - Emission (Ch 60)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 60)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 60)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 60)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	64
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3985	43.31	2.06	45.37	74	-28.63	PK
		5980	40.54	6.79	47.33	68.2	-20.87	PK
	*	10640	30.35	20.24	50.59	74	-23.41	PK
		14485	30.04	27.98	58.02	74	-15.98	PK
		14485	19.61	27.98	47.59	54	-6.41	AVG
		15775	29.87	25.3	55.17	74	-18.83	PK
		15775	21.04	25.3	46.34	54	-7.66	AVG
	*	21280	32.93	5.83	38.76	74	-35.24	PK
	*	26600	34.06	11.15	45.21	68.2	-22.99	PK
	*	31920	32.95	12.66	45.61	68.2	-22.59	PK
	*	37240	36.61	13.62	50.23	68.2	-17.97	PK
		39952	37.29	18.04	55.33	74	-18.67	PK
		39952	27.45	18.04	45.49	54	-8.51	AVG
Vertical		3940	48.92	2.28	51.2	74	-22.8	PK
		5980	41.29	6.79	48.08	68.2	-20.12	PK
	*	10640	31.1	20.24	51.34	74	-22.66	PK
		14485	28.32	27.98	56.3	74	-17.7	PK
		14485	19.75	27.98	47.73	54	-6.27	AVG
		15385	29.23	26.22	55.45	74	-18.55	PK
		15385	20.4	26.22	46.62	54	-7.38	AVG
	*	21280	34.51	5.83	40.34	74	-33.66	PK
	*	26600	34.42	11.15	45.57	68.2	-22.63	PK
	*	31920	33.58	12.66	46.24	68.2	-21.96	PK
	*	37240	37.14	13.62	50.76	68.2	-17.44	PK
		39976	38.04	18.09	56.13	74	-17.87	PK
		39976	28.2	18.09	46.29	54	-7.71	AVG

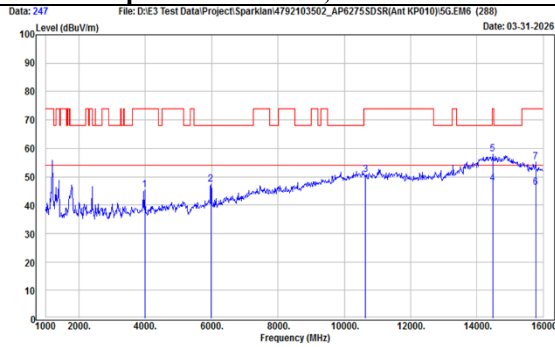
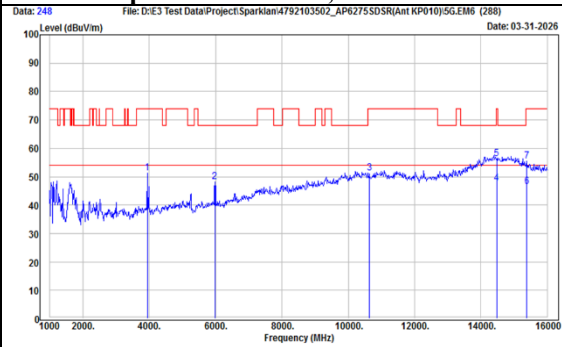
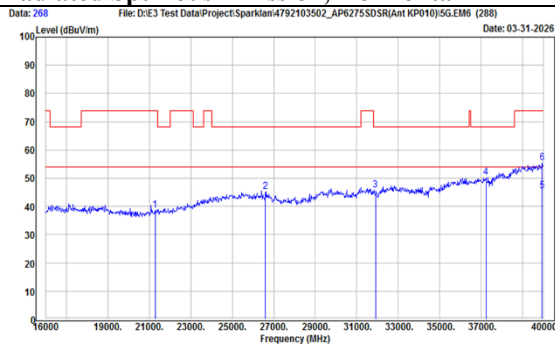
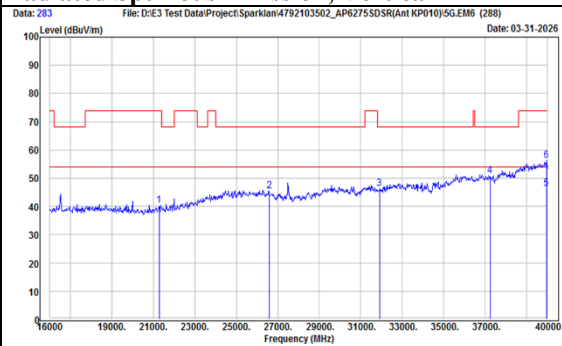
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TX, 802.11a - Emission (Ch 64)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 64)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 64)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 64)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	100
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3985	43.97	2.06	46.03	74	-27.97	PK
		5980	40.36	6.79	47.15	68.2	-21.05	PK
	*	11000	31.71	20.45	52.16	74	-21.84	PK
		14485	28.53	27.98	56.51	74	-17.49	PK
		14485	19.96	27.98	47.94	54	-6.06	AVG
		15520	29.18	25.84	55.02	74	-18.98	PK
		15520	20.35	25.84	46.19	54	-7.81	AVG
	*	16500	38.37	5.32	43.69	68.2	-24.51	PK
	*	22000	33.28	6.26	39.54	68.2	-28.66	PK
	*	27500	34.23	10.61	44.84	68.2	-23.36	PK
	*	33000	34.92	12.63	47.55	68.2	-20.65	PK
	*	38500	38.06	15.29	53.35	68.2	-14.85	PK
		39256	38.29	17.32	55.61	74	-18.39	PK
		39256	28.45	17.32	45.77	54	-8.23	AVG
Vertical		3985	45.38	2.06	47.44	74	-26.56	PK
		5980	38.54	6.79	45.33	68.2	-22.87	PK
	*	11000	31.25	20.45	51.7	74	-22.3	PK
		14500	28.9	28	56.9	68.2	-11.3	PK
		14500	19.88	28	47.88	54	-6.12	AVG
		15775	29.7	25.3	55	74	-19	PK
		15775	20.87	25.3	46.17	54	-7.83	AVG
	*	16500	34.82	5.32	40.14	68.2	-28.06	PK
	*	22000	33.65	6.26	39.91	68.2	-28.29	PK
	*	27500	33.76	10.61	44.37	68.2	-23.83	PK
	*	33000	36.71	12.63	49.34	68.2	-18.86	PK
	*	38500	37.76	15.29	53.05	68.2	-15.15	PK
		39616	38.29	17.46	55.75	74	-18.25	PK
		39616	28.45	17.46	45.91	54	-8.09	AVG

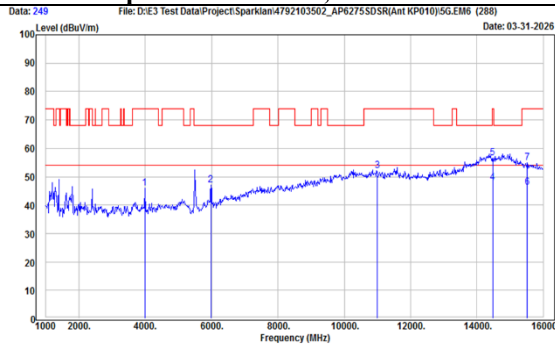
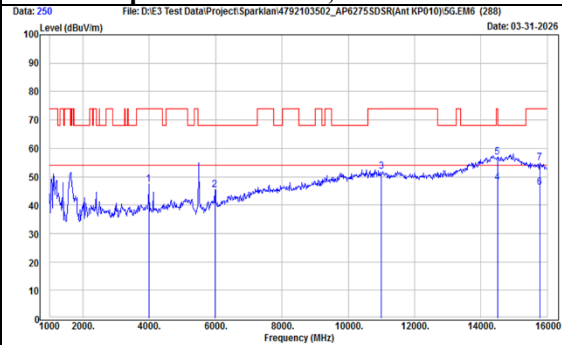
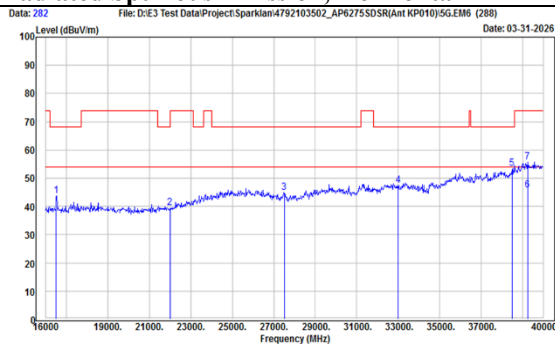
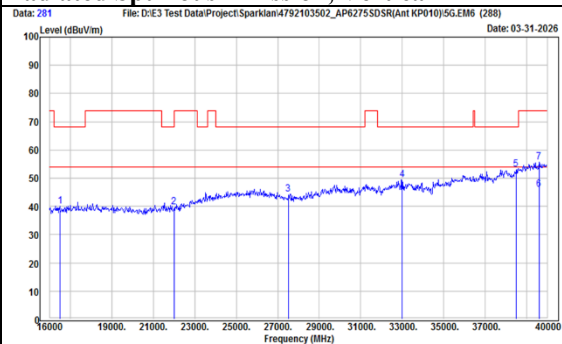
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TX, 802.11a - Emission (Ch 100)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 100)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 100)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 100)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	116
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4000	43.13	1.92	45.05	74	-28.95	PK
		5980	39.73	6.79	46.52	68.2	-21.68	PK
	*	11160	30.76	20.54	51.3	74	-22.7	PK
		14485	28.72	27.98	56.7	74	-17.3	PK
		14485	19.7	27.98	47.68	54	-6.32	AVG
		15385	28.46	26.22	54.68	74	-19.32	PK
		15385	19.63	26.22	45.85	54	-8.15	AVG
	*	16740	32.86	5.27	38.13	68.2	-30.07	PK
	*	22320	33.48	6.93	40.41	74	-33.59	PK
	*	27900	32.71	10.83	43.54	68.2	-24.66	PK
	*	33480	34.07	12.47	46.54	68.2	-21.66	PK
		39808	37.06	17.77	54.83	74	-19.17	PK
		39808	27.22	17.77	44.99	54	-9.01	AVG
Vertical		3715	45.52	1.27	46.79	74	-27.21	PK
		5995	38.56	6.83	45.39	68.2	-22.81	PK
	*	11160	30.84	20.54	51.38	74	-22.62	PK
		14485	28.34	27.98	56.32	74	-17.68	PK
		14485	19.77	27.98	47.75	54	-6.25	AVG
		15610	29.78	25.47	55.25	74	-18.75	PK
		15610	20.95	25.47	46.42	54	-7.58	AVG
	*	16740	34.33	5.27	39.6	68.2	-28.6	PK
	*	22320	33.85	6.93	40.78	74	-33.22	PK
	*	27900	33.5	10.83	44.33	68.2	-23.87	PK
	*	33480	35.5	12.47	47.97	68.2	-20.23	PK
		39952	37.81	18.04	55.85	74	-18.15	PK
		39952	27.97	18.04	46.01	54	-7.99	AVG

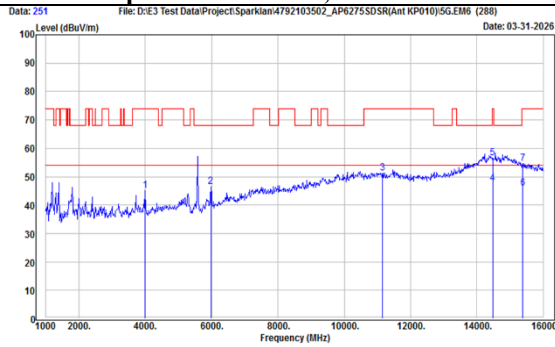
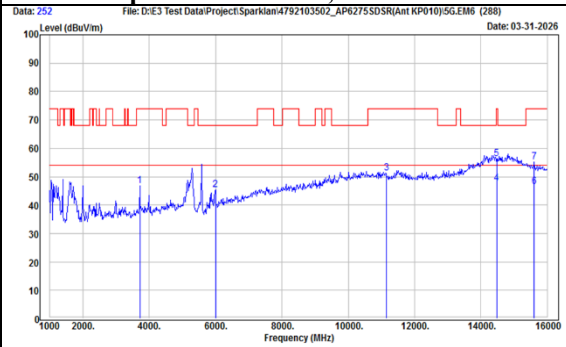
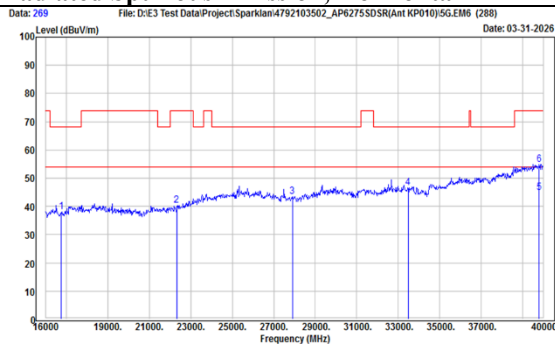
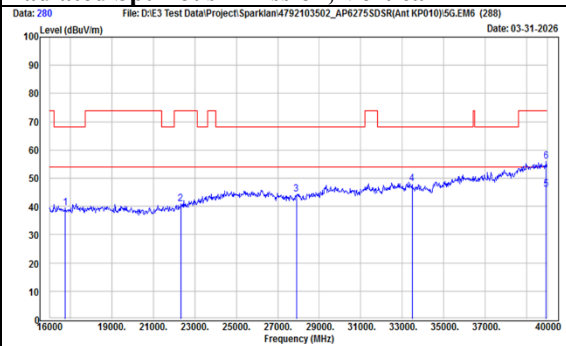
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Doc No: Form-ULID-004739 (DCS:17-EM-F0878) / 6.1

TX, 802.11a - Emission (Ch 116)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 116)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 116)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 116)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	140
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		3805	43.78	1.32	45.1	74	-28.9	PK
		5980	39.8	6.79	46.59	68.2	-21.61	PK
	*	11400	30.77	20.96	51.73	74	-22.27	PK
		14500	28.18	28	56.18	68.2	-12.02	PK
		14500	19.61	28	47.61	54	-6.39	AVG
		15685	29.76	25.44	55.2	74	-18.8	PK
		15685	20.93	25.44	46.37	54	-7.63	AVG
	*	17100	35.28	5.43	40.71	68.2	-27.49	PK
	*	22800	33.1	8	41.1	74	-32.9	PK
	*	28500	33.3	11.24	44.54	68.2	-23.66	PK
	*	34200	33.81	12.33	46.14	68.2	-22.06	PK
		39904	36.76	17.95	54.71	74	-19.29	PK
		39904	26.92	17.95	44.87	54	-9.13	AVG
		3805	44.65	1.32	45.97	74	-28.03	PK
Vertical		5980	38.79	6.79	45.58	68.2	-22.62	PK
	*	11400	29.82	20.96	50.78	74	-23.22	PK
		14500	28.85	28	56.85	68.2	-11.35	PK
		14500	19.83	28	47.83	54	-6.17	AVG
		15550	29.69	25.7	55.39	74	-18.61	PK
		15550	20.86	25.7	46.56	54	-7.44	AVG
	*	17100	34.42	5.43	39.85	68.2	-28.35	PK
	*	22800	34.16	8	42.16	74	-31.84	PK
	*	28500	33.6	11.24	44.84	68.2	-23.36	PK
	*	34200	34.85	12.33	47.18	68.2	-21.02	PK
		39712	38.56	17.59	56.15	74	-17.85	PK
		39712	28.72	17.59	46.31	54	-7.69	AVG

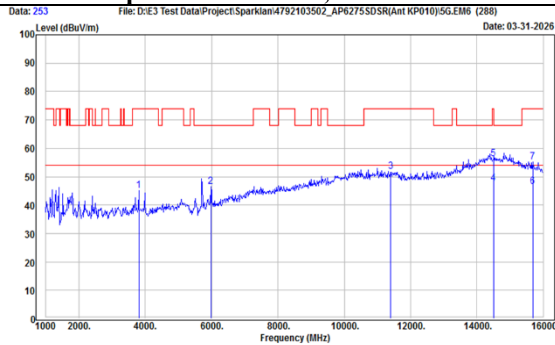
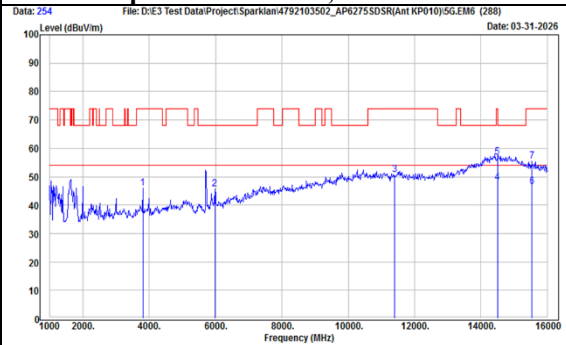
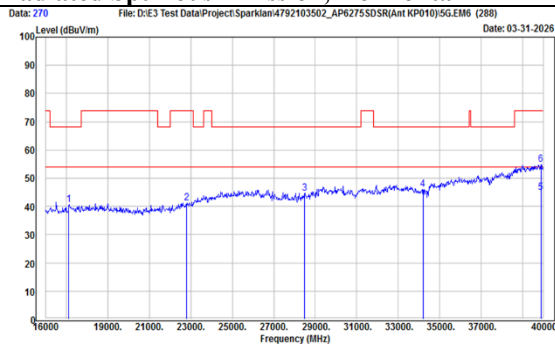
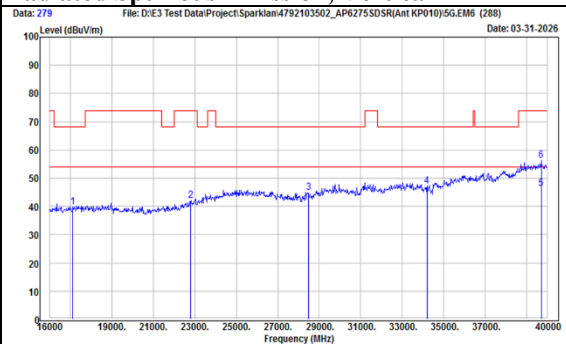
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TX, 802.11a - Emission (Ch 140)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 140)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 140)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 140)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	144
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4000	43.54	1.92	45.46	74	-28.54	PK
		5980	38.27	6.79	45.06	68.2	-23.14	PK
	*	11440	29.93	21.19	51.12	74	-22.88	PK
		14500	28.54	28	56.54	68.2	-11.66	PK
		14500	19.71	28	47.71	54	-6.29	AVG
		15715	27.42	25.39	52.81	74	-21.19	PK
		15715	20.34	25.39	45.73	54	-8.27	AVG
	*	17160	34.89	5.31	40.2	68.2	-28	PK
	*	22880	33.31	8.2	41.51	74	-32.49	PK
	*	28600	33.52	11.31	44.83	68.2	-23.37	PK
	*	34320	34.03	12.19	46.22	68.2	-21.98	PK
		39040	38.94	16.78	55.72	74	-18.28	PK
		39040	29.1	16.78	45.88	54	-8.12	AVG
Vertical		3805	44.63	1.32	45.95	74	-28.05	PK
		5980	40.73	6.79	47.52	68.2	-20.68	PK
	*	11440	30.12	21.19	51.31	74	-22.69	PK
		14500	27.83	28	55.83	68.2	-12.37	PK
		14500	19.26	28	47.26	54	-6.74	AVG
		15715	29.55	25.39	54.94	74	-19.06	PK
		15715	20.72	25.39	46.11	54	-7.89	AVG
	*	17160	34.85	5.31	40.16	68.2	-28.04	PK
	*	22880	33.45	8.2	41.65	74	-32.35	PK
	*	28600	33.05	11.31	44.36	68.2	-23.84	PK
	*	34320	34.03	12.19	46.22	68.2	-21.98	PK
		39736	37.58	17.63	55.21	74	-18.79	PK
		39736	27.74	17.63	45.37	54	-8.63	AVG

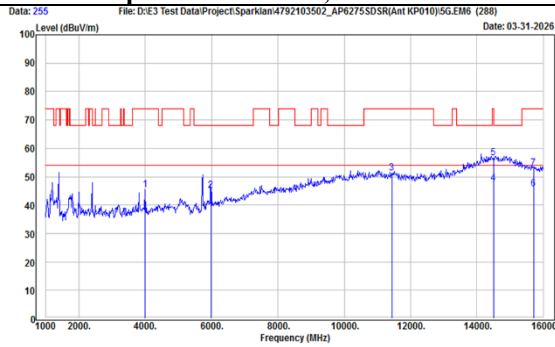
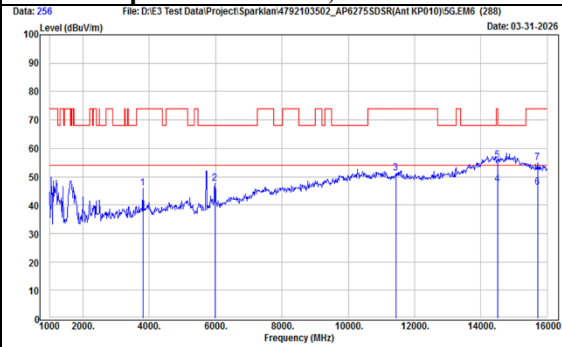
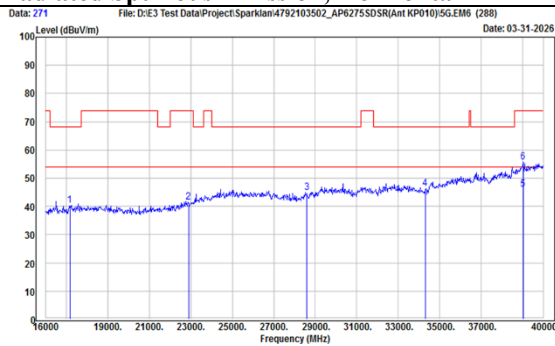
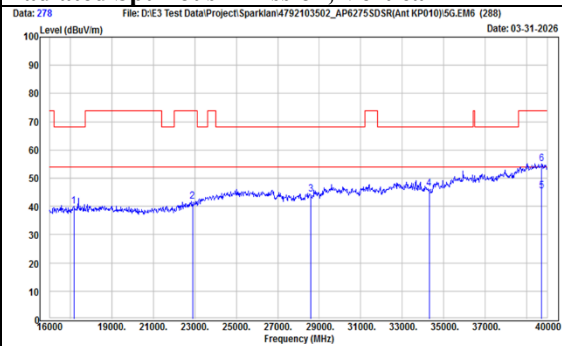
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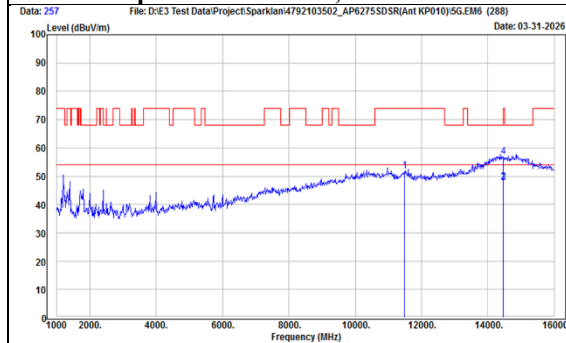
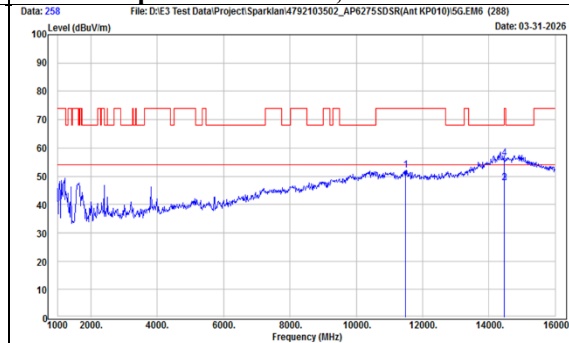
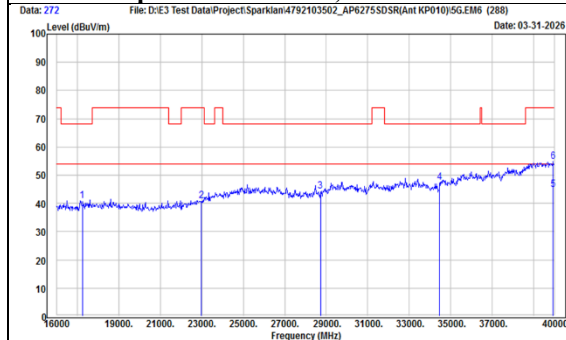
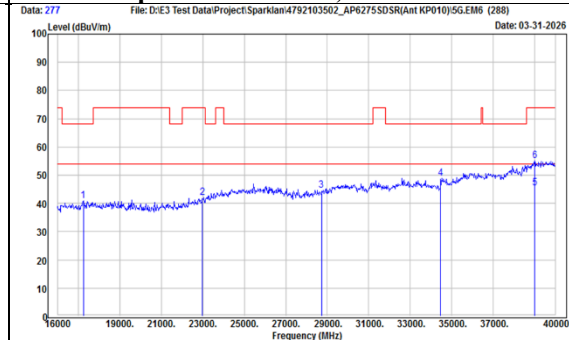
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TX, 802.11a - Emission (Ch 144)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 144)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 144)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 144)
Radiated Spurious Emission, Vertical


Mode	802.11a - Emission	Channel	149
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	11490	30.46	21.49	51.95	74	-22.05	PK
		14470	28.97	27.97	56.94	68.2	-11.26	PK
		14470	19.69	27.97	47.66	54	-6.34	AVG
		14470	19.95	27.97	47.92	54	-6.08	AVG
	*	17235	35.68	5.15	40.83	68.2	-27.37	PK
	*	22980	32.41	8.46	40.87	74	-33.13	PK
	*	28725	33.02	11.41	44.43	68.2	-23.77	PK
	*	34470	35.52	12.02	47.54	68.2	-20.66	PK
		39952	36.73	18.04	54.77	74	-19.23	PK
		39952	26.89	18.04	44.93	54	-9.07	AVG
Vertical	*	11490	30.5	21.49	51.99	74	-22.01	PK
		14470	28.35	27.97	56.32	68.2	-11.88	PK
		14470	19.52	27.97	47.49	54	-6.51	AVG
		14470	19.78	27.97	47.75	54	-6.25	AVG
	*	17235	35.64	5.15	40.79	68.2	-27.41	PK
	*	22980	33.63	8.46	42.09	74	-31.91	PK
	*	28725	33.12	11.41	44.53	68.2	-23.67	PK
	*	34470	36.91	12.02	48.93	68.2	-19.27	PK
		39016	38.45	16.72	55.17	74	-18.83	PK
		39016	28.61	16.72	45.33	54	-8.67	AVG

TX, 802.11a - Emission (Ch 149)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 149)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 149)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 149)
Radiated Spurious Emission, Vertical

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Mode	802.11a - Emission	Channel	157
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4000	42.96	1.92	44.88	74	-29.12	PK
		6040	41.13	6.91	48.04	68.2	-20.16	PK
	*	11570	31.9	21.26	53.16	74	-20.84	PK
		14470	29.54	27.97	57.51	68.2	-10.69	PK
		14470	19.59	27.97	47.56	54	-6.44	AVG
		15415	28.47	26.1	54.57	74	-19.43	PK
		15415	19.64	26.1	45.74	54	-8.26	AVG
	*	17355	34.94	4.91	39.85	68.2	-28.35	PK
	*	23140	34.25	8.82	43.07	68.2	-25.13	PK
	*	28925	32.7	11.63	44.33	68.2	-23.87	PK
	*	34710	36.94	12.17	49.11	68.2	-19.09	PK
		39616	38.09	17.46	55.55	74	-18.45	PK
		39616	28.25	17.46	45.71	54	-8.29	AVG
		3850	44.71	1.46	46.17	74	-27.83	PK
		6055	40.8	6.94	47.74	68.2	-20.46	PK
Vertical	*	11570	30.55	21.26	51.81	74	-22.19	PK
		14485	28.7	27.98	56.68	74	-17.32	PK
		14485	19.68	27.98	47.66	54	-6.34	AVG
		15595	29.83	25.5	55.33	74	-18.67	PK
		15595	21	25.5	46.5	54	-7.5	AVG
	*	17355	34.82	4.91	39.73	68.2	-28.47	PK
	*	23140	33.34	8.82	42.16	68.2	-26.04	PK
	*	28925	33.44	11.63	45.07	68.2	-23.13	PK
	*	34710	36.85	12.17	49.02	68.2	-19.18	PK
		39376	37.82	17.29	55.11	74	-18.89	PK
		39376	27.98	17.29	45.27	54	-8.73	AVG

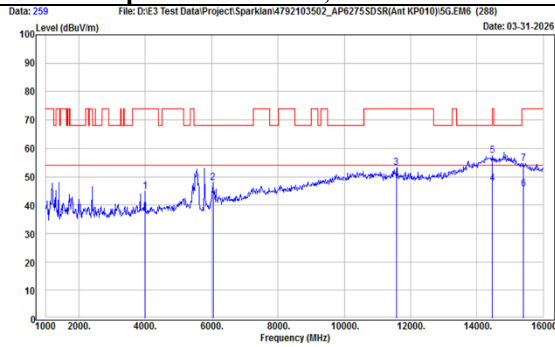
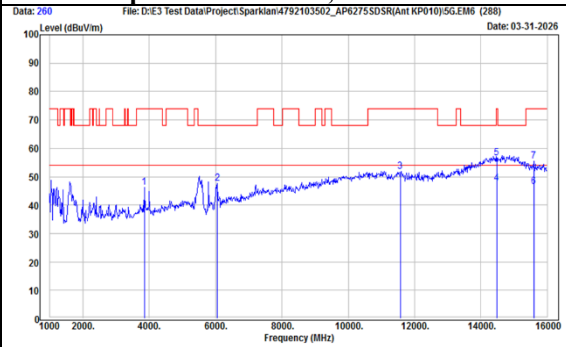
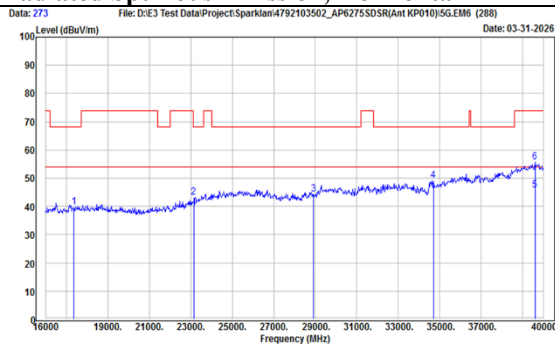
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TX, 802.11a - Emission (Ch 157)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 157)
Radiated Spurious Emission, Vertical

TX, 802.11a - Emission (Ch 157)
Radiated Spurious Emission, Horizontal

TX, 802.11a - Emission (Ch 157)
Radiated Spurious Emission, Vertical
