



Report No.: SUCR260100007403

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TEST REPORT

Application No.: SUCR2601000074AT
Applicant: TVS Motor Company Limited
Address of Applicant: P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India
Manufacturer: TVS Motor Company Limited
Address of Manufacturer: P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India
Equipment Under Test (EUT):
EUT Name: Instrument Cluster
Model No.: 0000N7161459
FCC ID: 2BUVH-N7161459
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-01-29
Date of Test: 2026-03-03 to 2026-03-09
Date of Issue: 2026-03-18

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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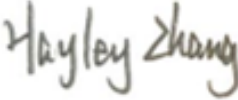
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

South of No. 6 Plant, No. 1, RunSheng Road, Suzhou Industrial Park,
Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

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Revision Record			
Version	Description	Date	Remark
01	Original	2026-03-18	/

Authorized for issue by:			
Tested By			
		Hayley Zhang/Project Engineer	
Approved By			
		Cedar Cheng /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020/Cor1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020/Cor1-2023 Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

Remark:

This test report (Report No.: SUCR260100007401 issue on 2026-03-18) is based on the original test report (Report No.: TERF2307001775E2 issue on 2023-08-23 and TERF2211002513E2 issue on 2023-03-22). Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions and Maximum Conducted Output Power are tested, other data is refer to the original report TERF2307001775E2 issue on 2023-08-23 and TERF2211002513E2 issue on 2023-03-22.

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4 General Information

4.1 Details of E.U.T.

Operation Frequency:	802.11b/g/n(HT20)/ac(VHT20)/ax(HEW20): 2412MHz to 2462MHz; 802.11n(HT40)/ac(VHT40)/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	11b: DSSS (DBPSK, DQPSK, CCK); 11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 11ac: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ac(VHT20)/ax(HEW20): 11; 802.11n(HT40)/ac(VHT40)/ax(HEW40): 7
Channel Spacing:	5MHz
Antenna Type:	SMD Loop Antenna (ANT2)
Antenna Gain:	0.5dBi (ANT2)
Remark:	SISO: 1Tx & 1Rx

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	42-43%	
Value	Temperature(°C)	Voltage(V)
NTNV	22-23	13.5
Note:		
NV:Normal Voltage	LV:Low Extreme Test Voltage	HV:High Extreme Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature	HT:High Extreme Test Temperature

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	RF conducted power	± 0.75dB
2	RF Radiated power	±1.56dB (9KHz-30MHz)
		±4.80dB (30MHz-1GHz)
		±4.80dB (1GHz-18GHz)
		±4.80dB (18GHz-40GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1%
6	Time	± 3%
Remark:		

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number: 717327

• **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	2025/11/21	2026/11/20
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2026/1/14	2027/1/13
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	2026/1/14	2027/1/13
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	2026/1/14	2027/1/13
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	2025/11/21	2026/11/20
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	2025/5/8	2026/5/7
8	Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	2025/11/21	2026/11/20
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2025/11/21	2026/11/20
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	2025/11/21	2026/11/20
11	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2025/11/21	2026/11/20
12	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2026/1/14	2027/1/13
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2026/2/11	2027/2/10
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	2025/5/7	2026/5/6
15	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
16	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
17	RFCables	Tonscend	NA	SUWI-01-03-01	NCR	NCR
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2023/6/3	2026/6/2
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	2025/11/21	2026/11/20
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2026/1/14	2027/1/13
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	2026/1/14	2027/1/13
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2025/9/10	2027/9/9
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2025/5/7	2027/5/6
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2025/5/7	2027/5/6
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2025/5/7	2027/5/6
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2026/1/14	2027/1/13
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2026/1/14	2027/1/13
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2026/1/14	2027/1/13
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	2025/11/21	2026/11/20
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2025/8/25	2026/8/24
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	2025/8/26	2026/8/25
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	2025/11/21	2026/11/20



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17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	2026/1/14	2027/1/13
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2026/1/14	2027/1/13
19	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/2/11	2027/2/10
20	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR
21	RF Control unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
22	RFCables	Tonscend	NA	SUWI-01-03-02	NCR	NCR

Remark: NCR=No Calibration Requirement.

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is SMD Loop Antenna and no consideration of replacement. The best case gain of the antenna is 0.5 dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 11.12

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

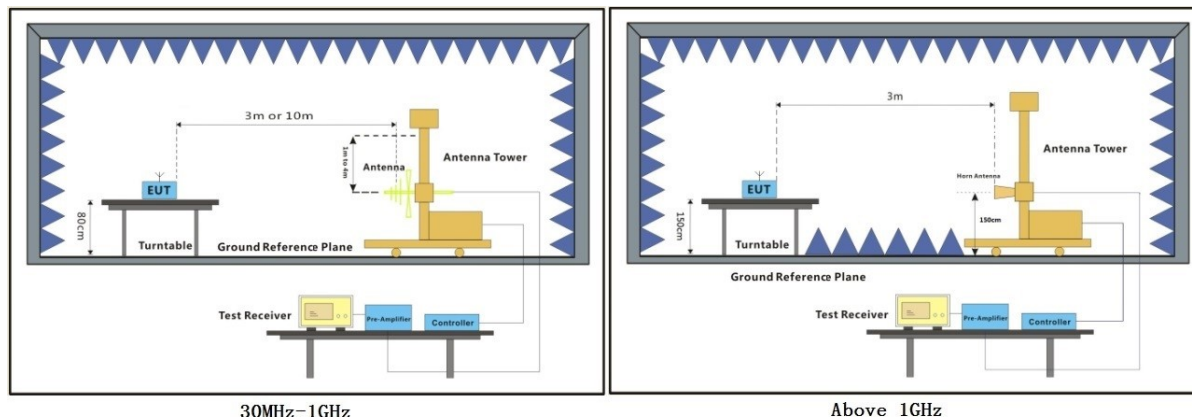
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g;data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



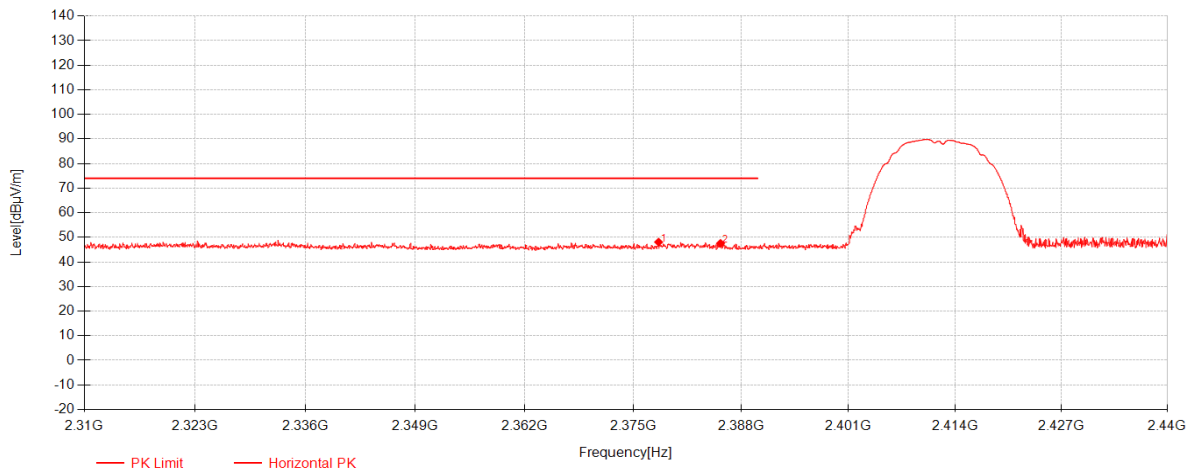
7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

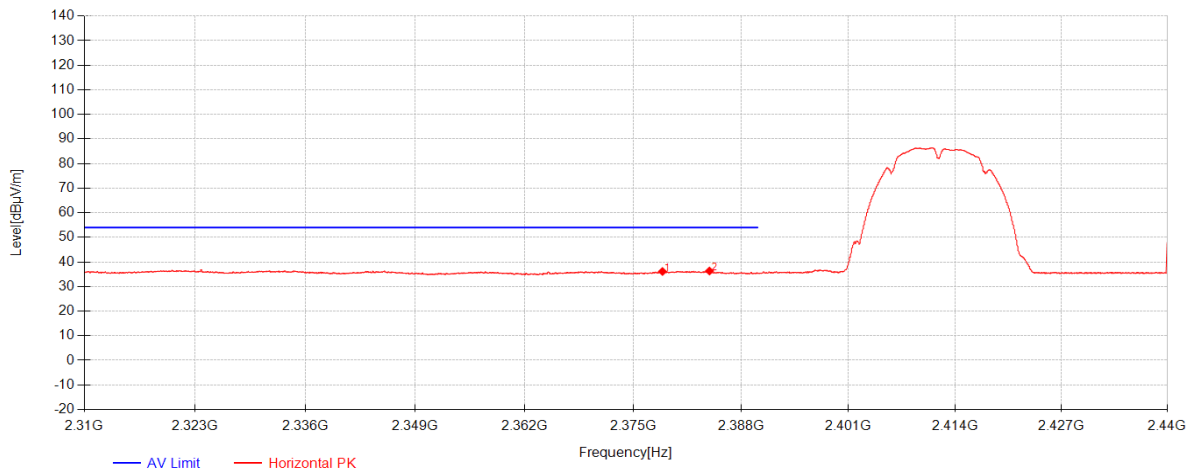
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

11b_TX_CH_01_Horizontal_Peak



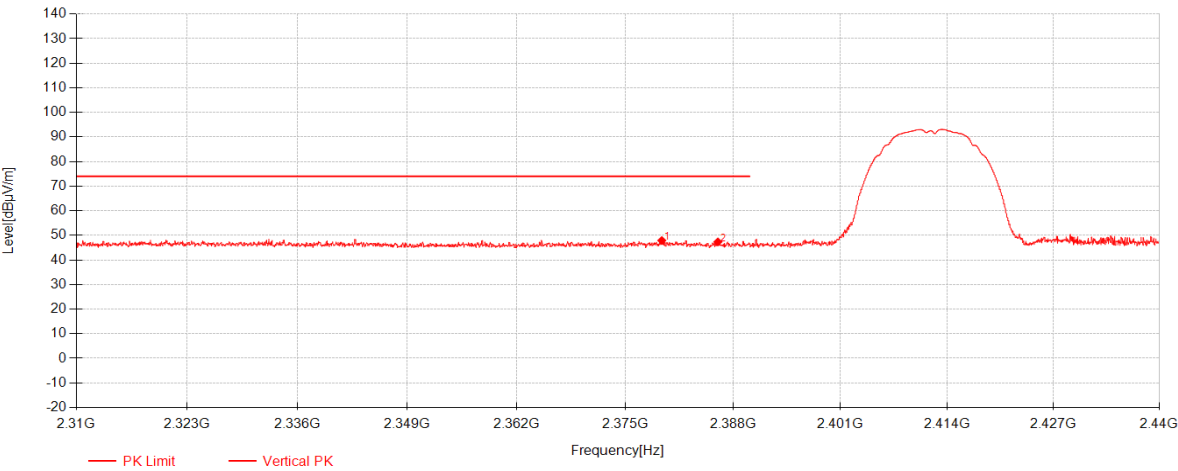
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.0767	44.59	26.98	-23.50	48.07	74.00	25.93	Horizontal
2	2385.53	44.07	26.99	-23.51	47.55	74.00	26.45	Horizontal

11b_TX_CH_01_Horizontal_Average



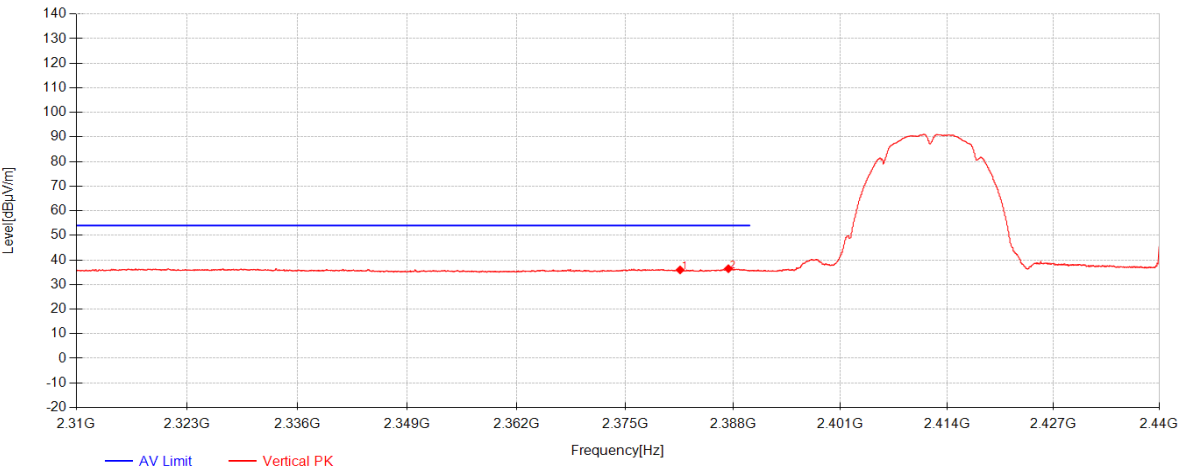
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.5425	32.64	26.98	-23.50	36.12	54.00	17.88	Horizontal
2	2384.1975	32.83	26.99	-23.51	36.31	54.00	17.69	Horizontal

11b_TX_CH_01_Vertical_Peak



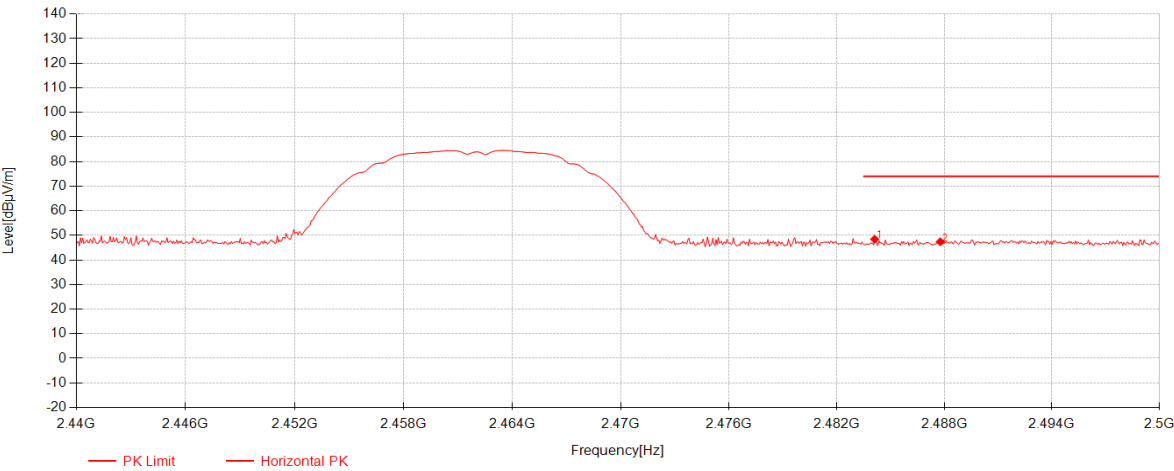
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2379.42	44.45	26.98	-23.50	47.93	74.00	26.07	Vertical
2	2386.18	43.86	27.00	-23.51	47.34	74.00	26.66	Vertical

11b_TX_CH_01_Vertical_Average



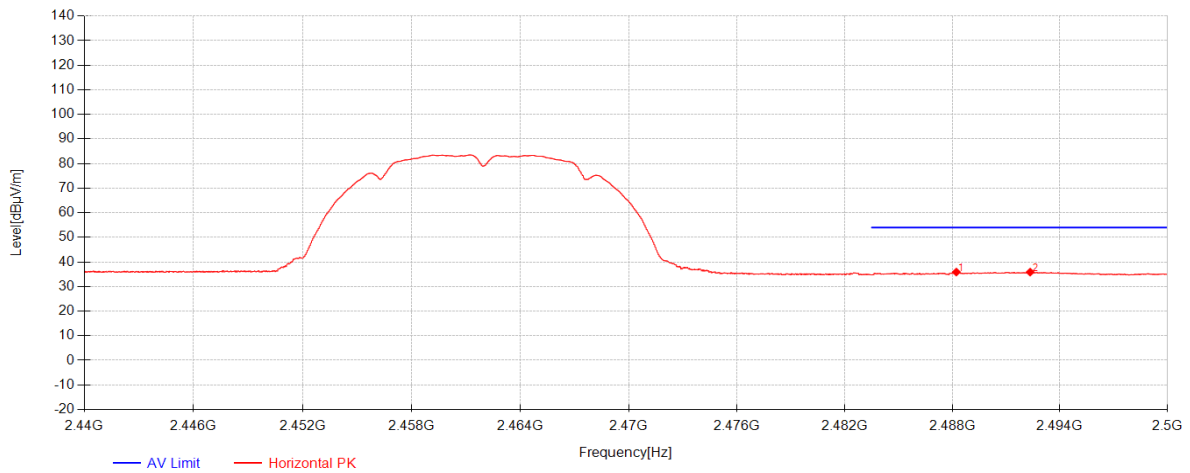
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2381.63	32.46	26.99	-23.51	35.94	54.00	18.06	Vertical
2	2387.4475	32.95	27.00	-23.51	36.43	54.00	17.57	Vertical

11b_TX_CH_11_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1	44.45	27.17	-23.18	48.44	74.00	25.56	Horizontal
2	2487.76	43.36	27.18	-23.16	47.38	74.00	26.62	Horizontal

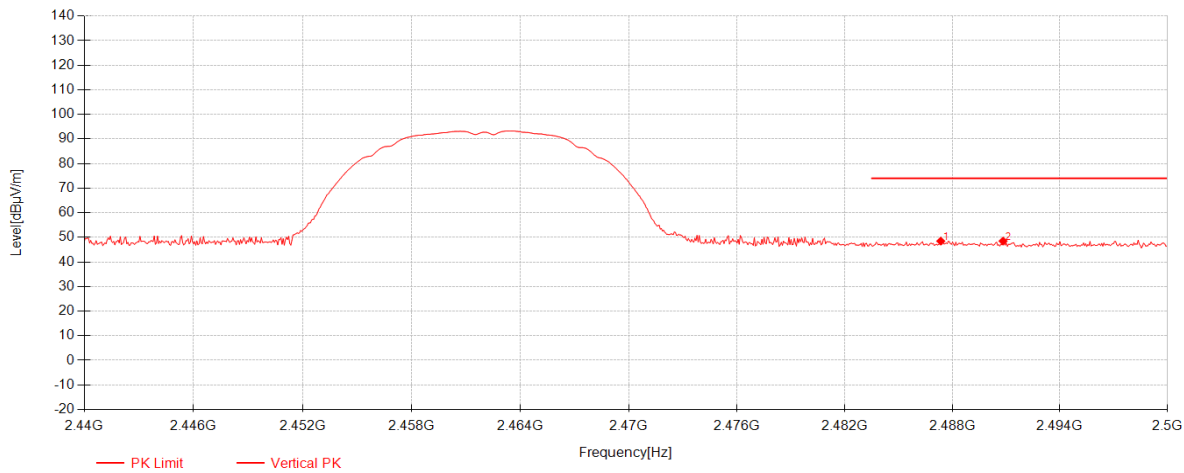
11b_TX_CH_11_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2488.21	31.86	27.18	-23.16	35.88	54.00	18.12	Horizontal
2	2492.335	31.83	27.19	-23.14	35.87	54.00	18.13	Horizontal



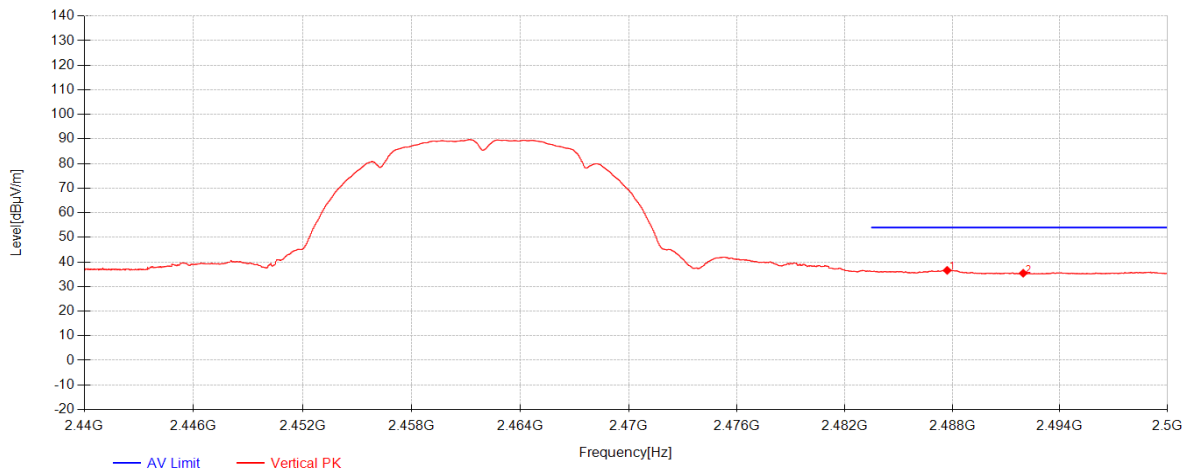
11b_TX_CH_11_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.34	44.47	27.18	-23.16	48.48	74.00	25.52	Vertical
2	2490.82	44.47	27.18	-23.15	48.50	74.00	25.50	Vertical



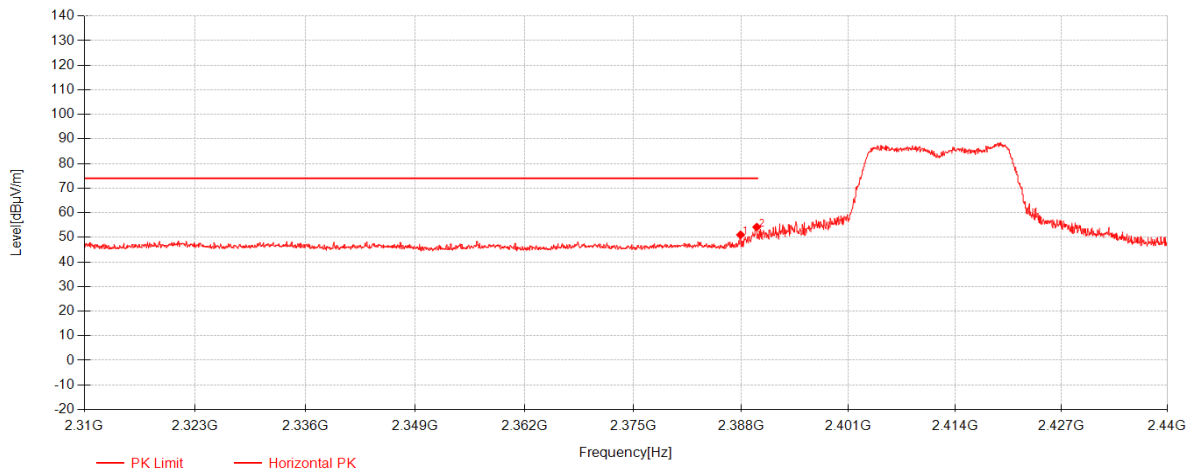
11b_TX_CH_11_Vertical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.7	32.55	27.18	-23.16	36.57	54.00	17.43	Vertical
2	2491.945	31.38	27.19	-23.14	35.42	54.00	18.58	Vertical

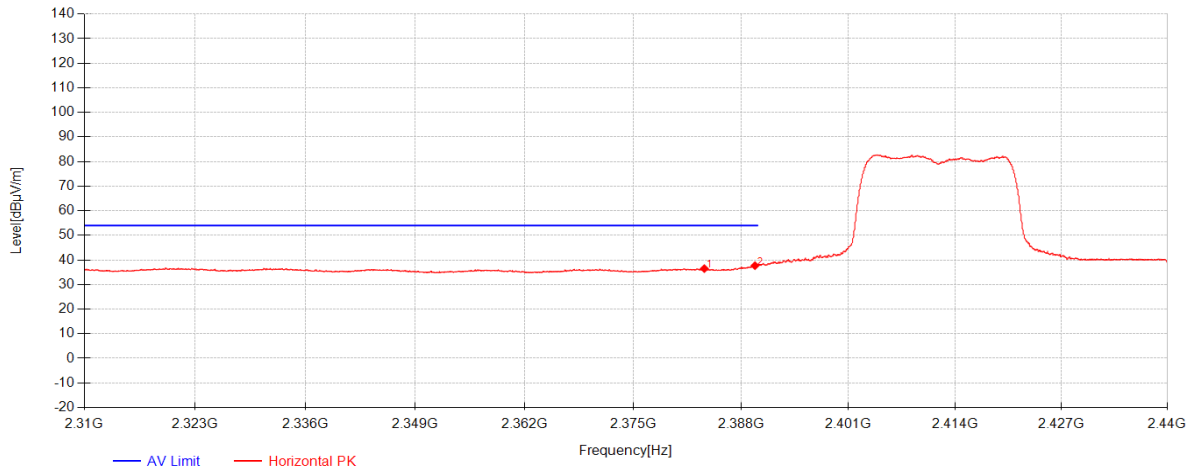


11ax(HE20)_TX_CH_01_Horizontal_Peak



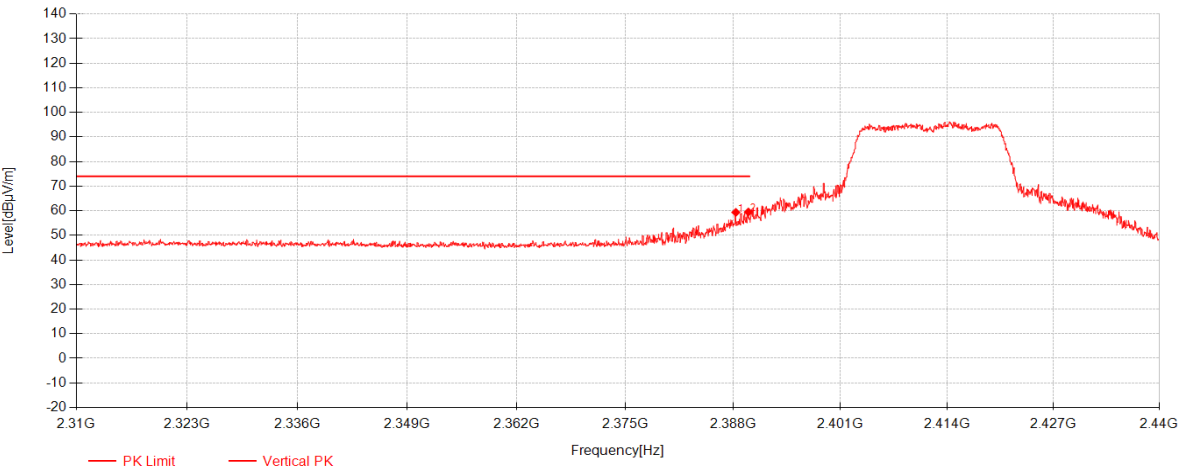
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.9567	47.56	27.00	-23.51	51.04	74.00	22.96	Horizontal
2	2389.9067	50.71	27.00	-23.52	54.19	74.00	19.81	Horizontal

11ax(HE20)_TX_CH_01_Horizontal_Average



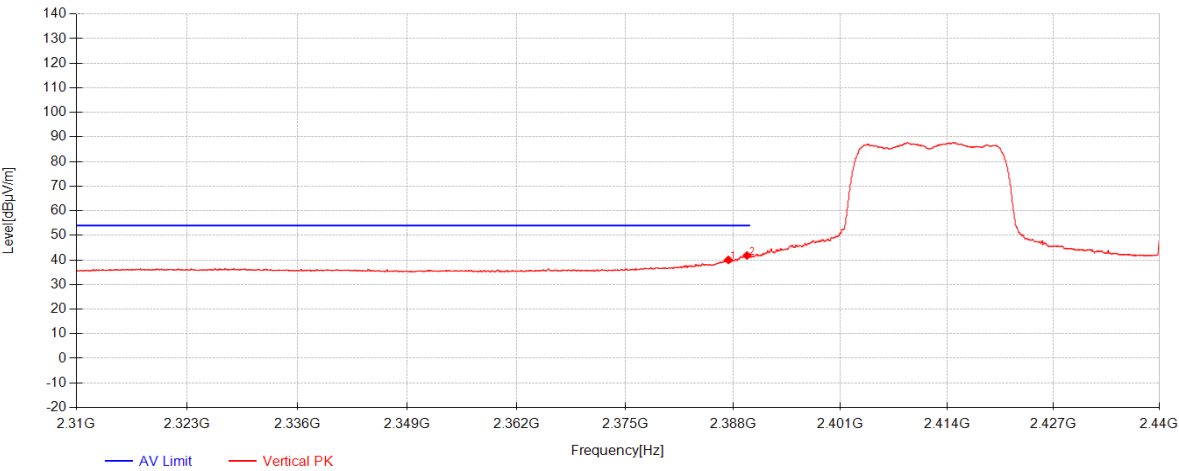
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2383.58	33.00	26.99	-23.51	36.48	54.00	17.52	Horizontal
2	2389.69	34.19	27.00	-23.52	37.67	54.00	16.33	Horizontal

11ax(HE20)_TX_CH_01_Veritical_Peak



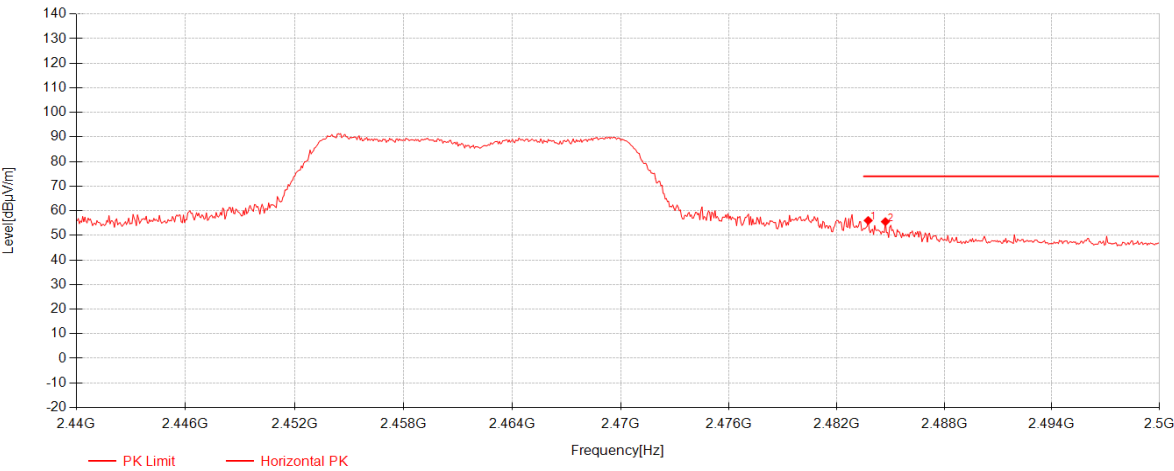
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.3467	55.87	27.00	-23.51	59.35	74.00	14.65	Vertical
2	2389.8633	56.02	27.00	-23.52	59.50	74.00	14.50	Vertical

11ax(HE20)_TX_CH_01_Veritical_Average



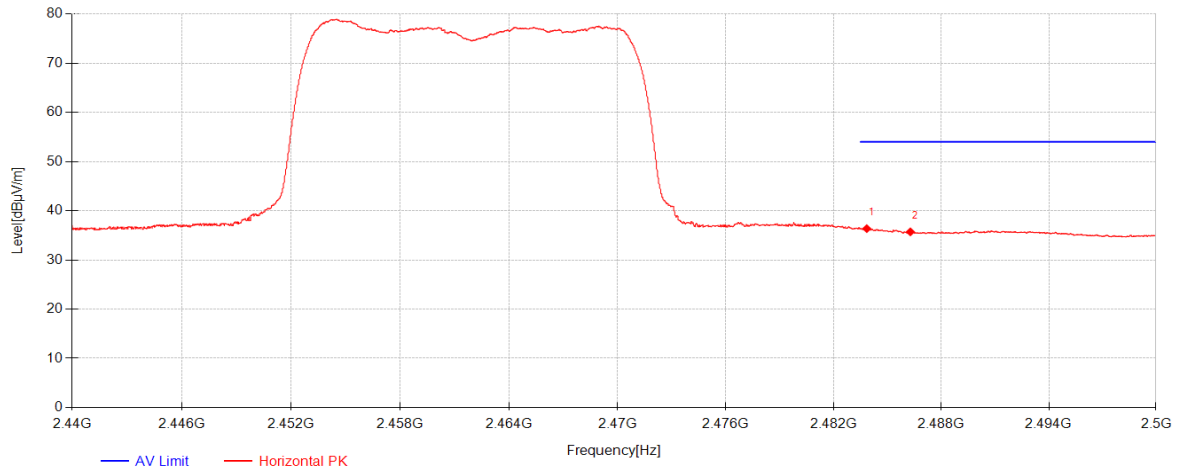
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.4475	36.55	27.00	-23.51	40.03	54.00	13.97	Vertical
2	2389.69	38.33	27.00	-23.52	41.81	54.00	12.19	Vertical

11ax(HE20)_TX_CH_11_Horizontal_Peak



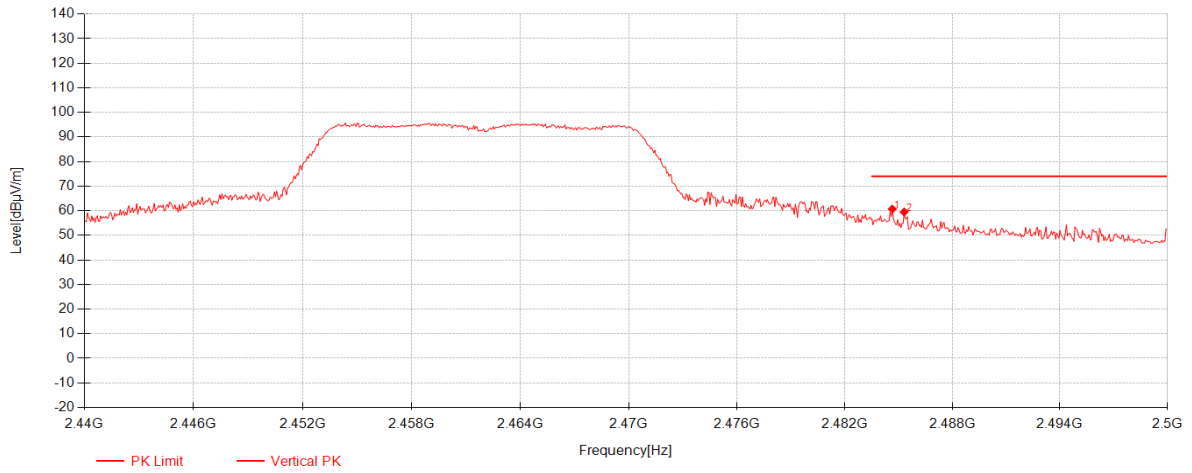
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.74	52.05	27.17	-23.18	56.04	74.00	17.96	Horizontal
2	2484.7	51.57	27.17	-23.17	55.57	74.00	18.43	Horizontal

11ax(HE20)_TX_CH_11_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.845	32.38	27.17	-23.18	36.37	54.00	17.63	Horizontal
2	2486.275	31.70	27.18	-23.17	35.71	54.00	18.29	Horizontal

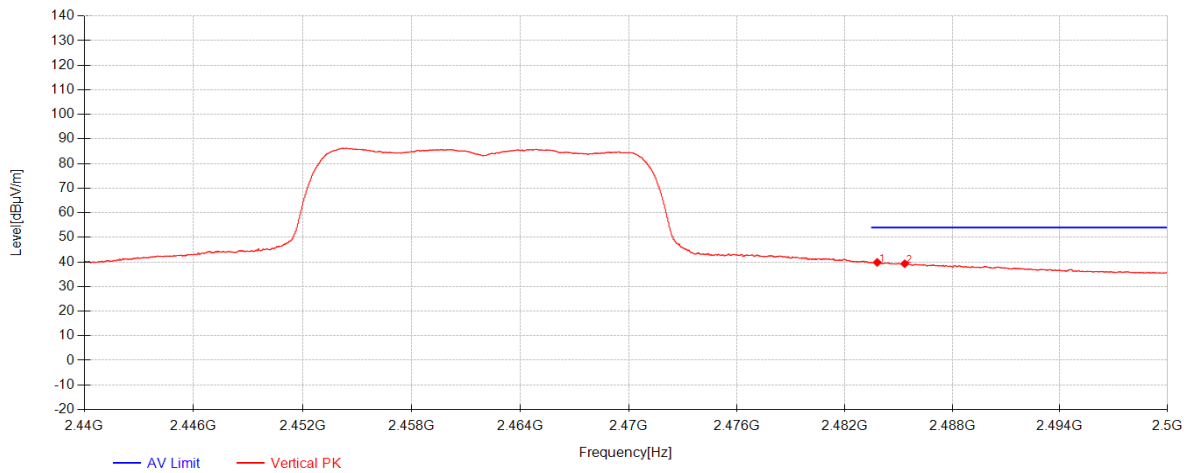
11ax(HE20)_TX_CH_11_Veritical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.64	56.71	27.17	-23.17	60.71	74.00	13.29	Vertical
2	2485.3	55.53	27.17	-23.17	59.53	74.00	14.47	Vertical

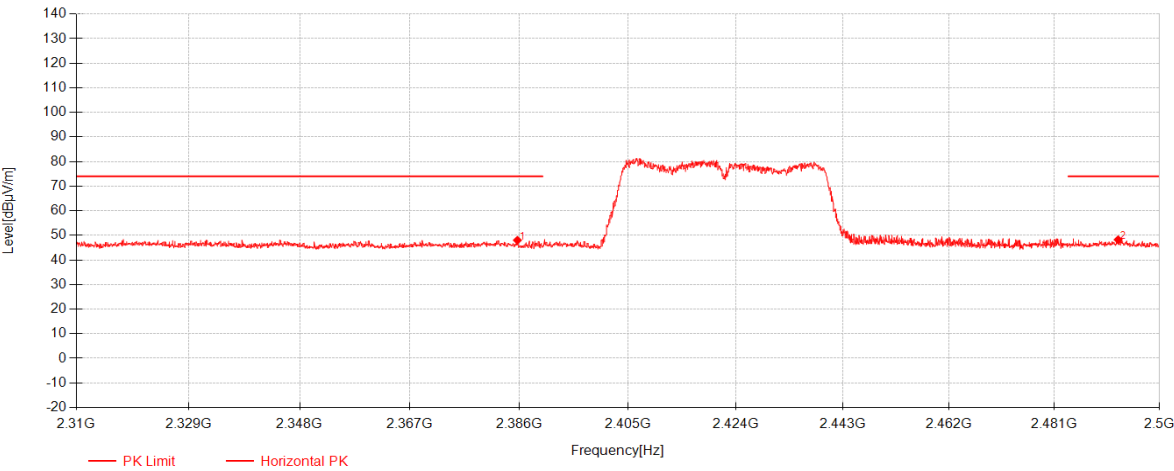


11ax(HE20)_TX_CH_11_Veritical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8	35.82	27.17	-23.18	39.81	54.00	14.19	Vertical
2	2485.33	35.27	27.17	-23.17	39.27	54.00	14.73	Vertical

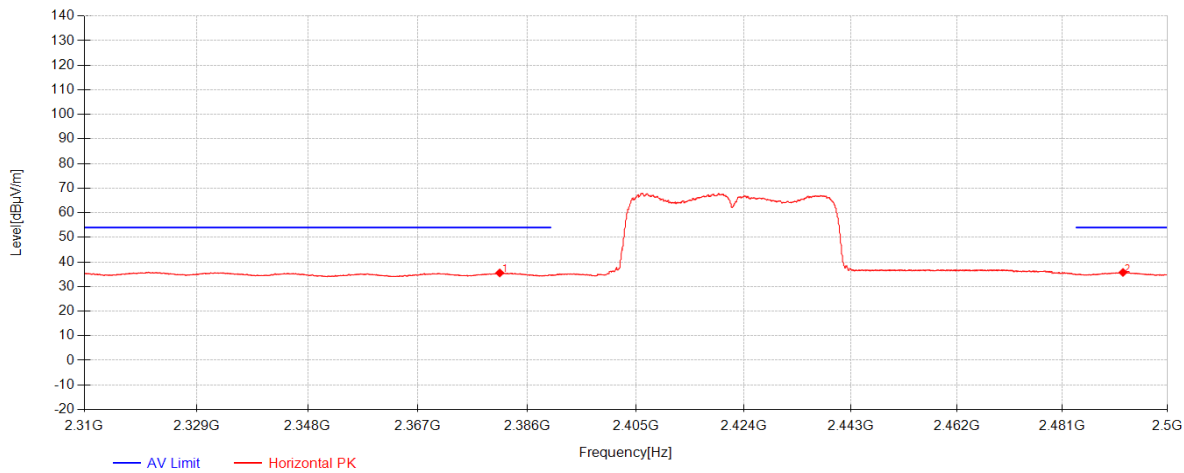
11ax(HE40)_TX_CH_03_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2385.62	44.54	26.99	-23.51	48.02	74.00	25.98	Horizontal
2	2492.5425	44.18	27.19	-23.14	48.23	74.00	25.77	Horizontal

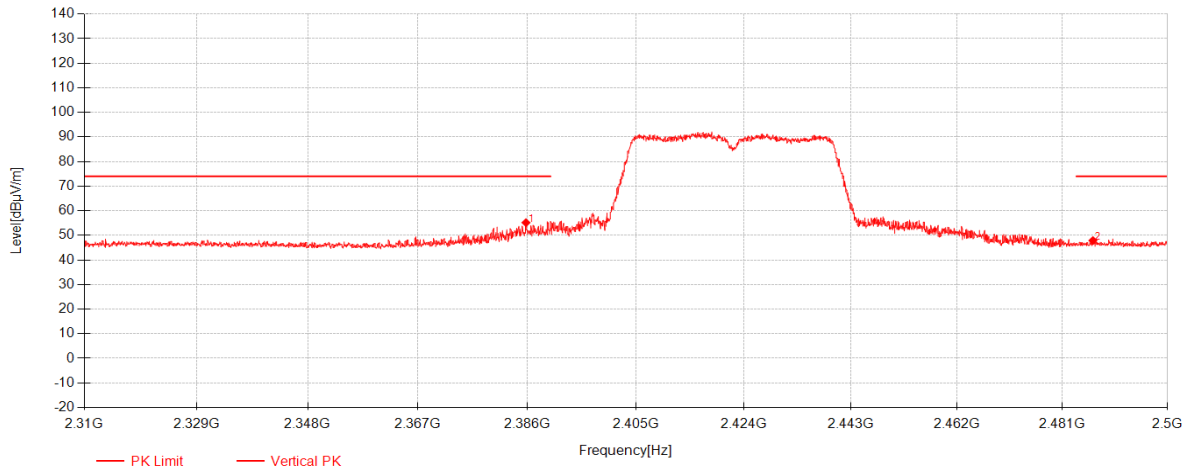


11ax(HE40)_TX_CH_03_Horizontal_Average



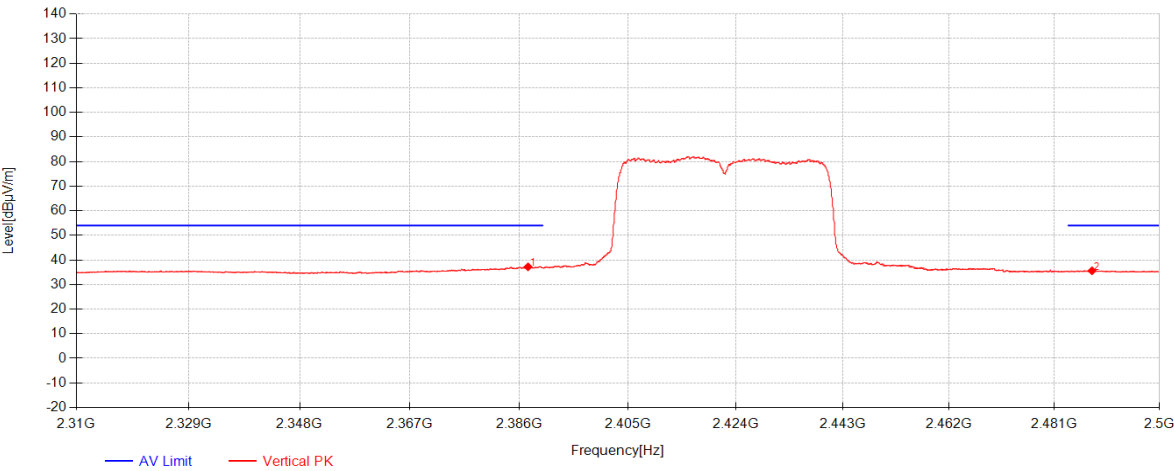
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2381.155	32.05	26.99	-23.51	35.53	54.00	18.47	Horizontal
2	2491.9725	31.70	27.19	-23.14	35.74	54.00	18.26	Horizontal

11ax(HE40)_TX_CH_03_Veritical_Peak



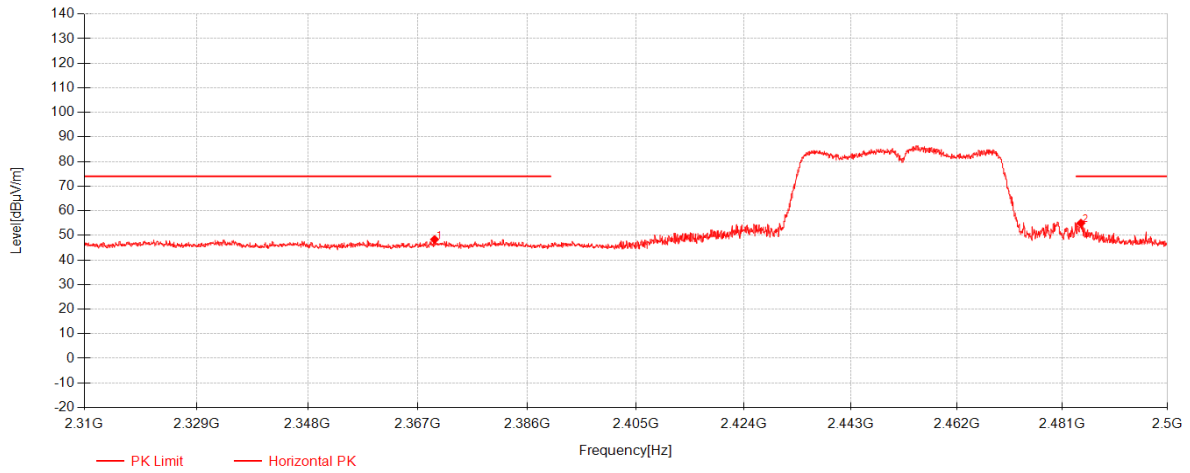
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2385.715	51.69	26.99	-23.51	55.17	74.00	18.83	Vertical
2	2486.51	43.88	27.18	-23.17	47.89	74.00	26.11	Vertical

11ax(HE40)_TX_CH_03_Veritical_Average



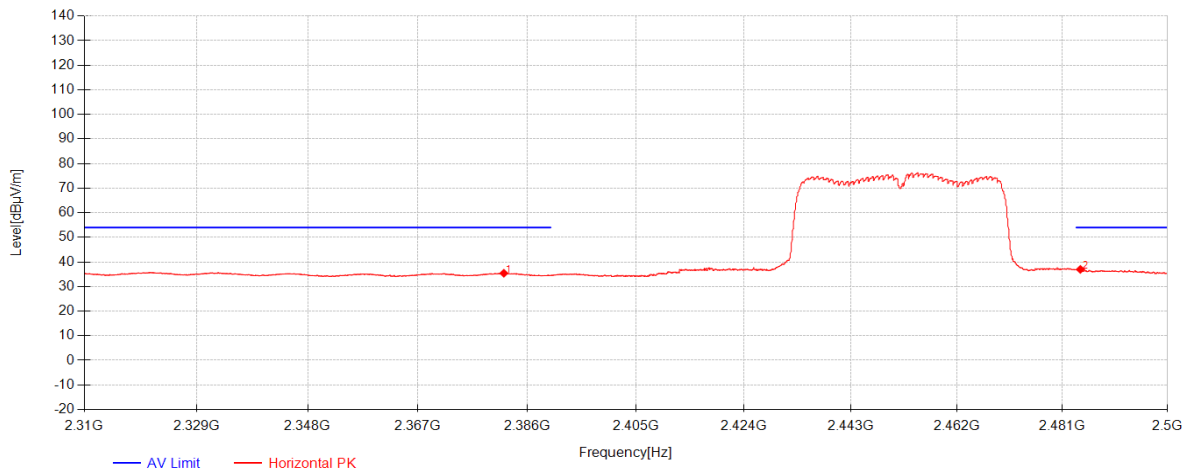
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.4725	33.71	27.00	-23.51	37.19	54.00	16.81	Vertical
2	2487.7925	31.57	27.18	-23.16	35.59	54.00	18.41	Vertical

11(HE40)_TX_CH_09_Horizontal_Peak



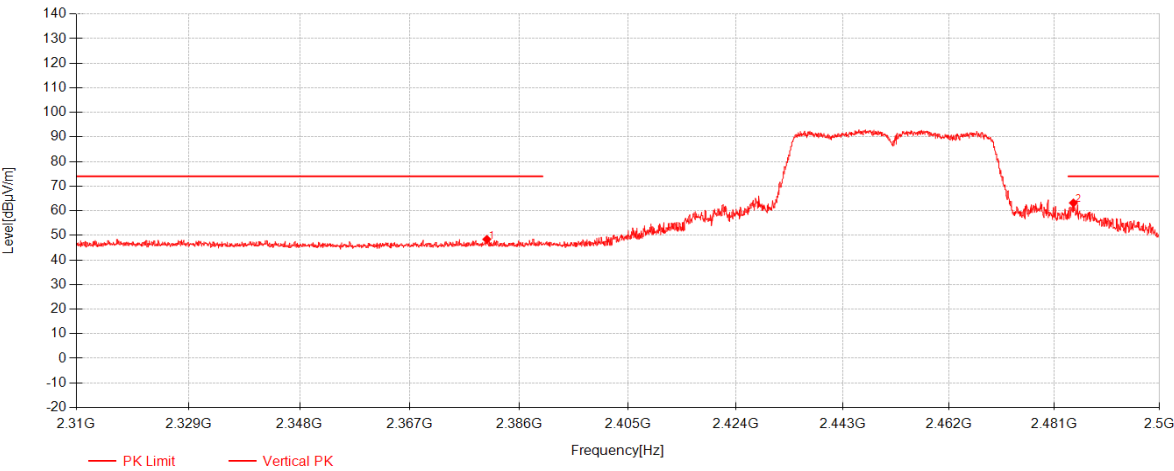
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2369.85	44.88	26.97	-23.49	48.35	74.00	25.65	Horizontal
2	2484.325	50.98	27.17	-23.18	54.98	74.00	19.02	Horizontal

11(HE40)_TX_CH_09_Horizontal_Average



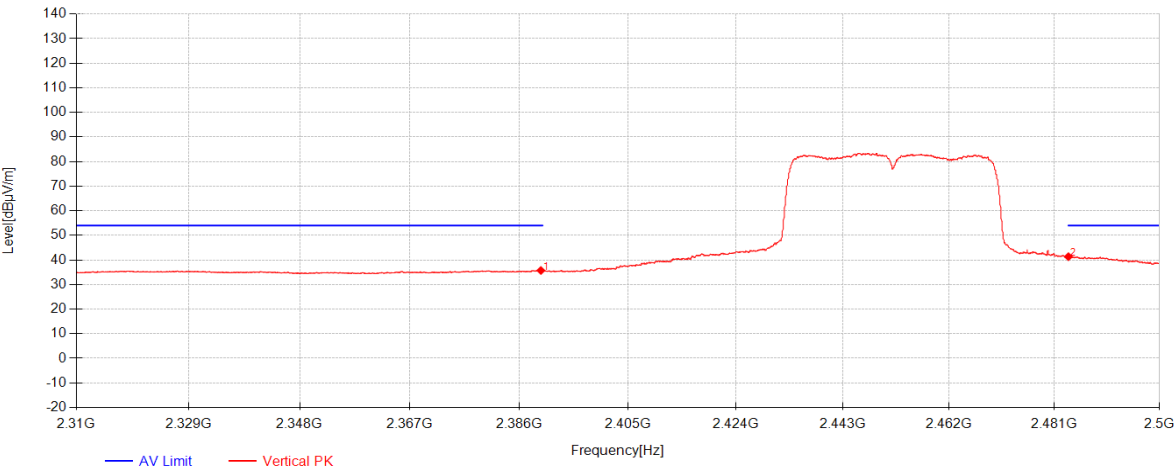
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2381.8675	31.92	26.99	-23.51	35.40	54.00	18.60	Horizontal
2	2484.23	32.98	27.17	-23.18	36.98	54.00	17.02	Horizontal

11(HE40)_TX_CH_09_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.3	44.92	26.98	-23.50	48.40	74.00	25.60	Vertical
2	2484.42	59.20	27.17	-23.18	63.20	74.00	10.80	Vertical

11(HE40)_TX_CH_09_Vertical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.705	32.23	27.00	-23.52	35.71	54.00	18.29	Vertical
2	2483.5175	37.33	27.17	-23.18	41.32	54.00	12.68	Vertical



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7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field strength (dB μ V/m@3m)
0.009-0.490	2400/F(kHz)	300	128.5 to 93.8
0.490-1.705	24000/F(kHz)	30	73.8 to 62.9
1.705-30.0	30	30	69.60
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
960-1000	500	3	54.0

Note :The emission limits for the range 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C

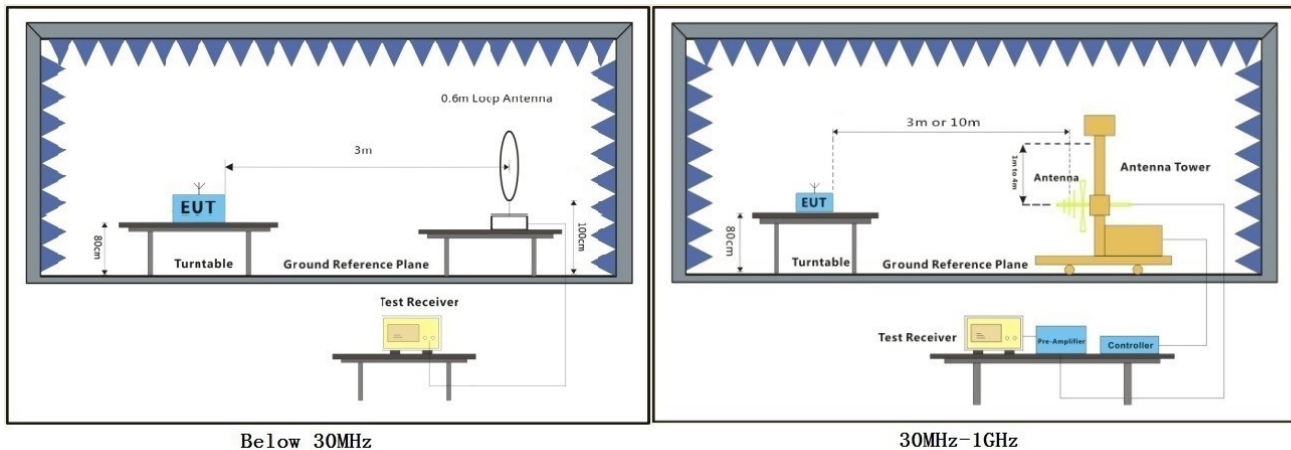
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g;data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



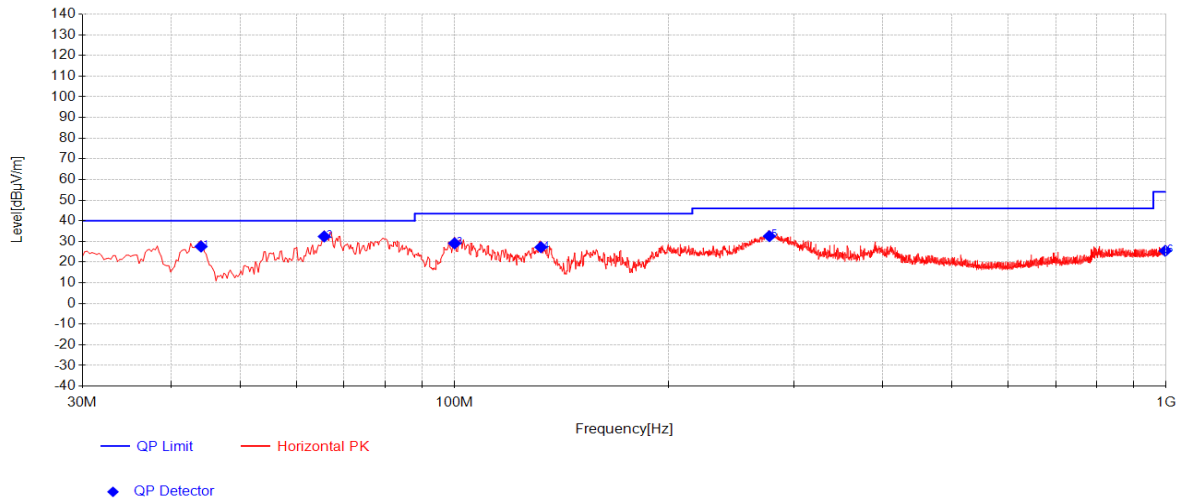
7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

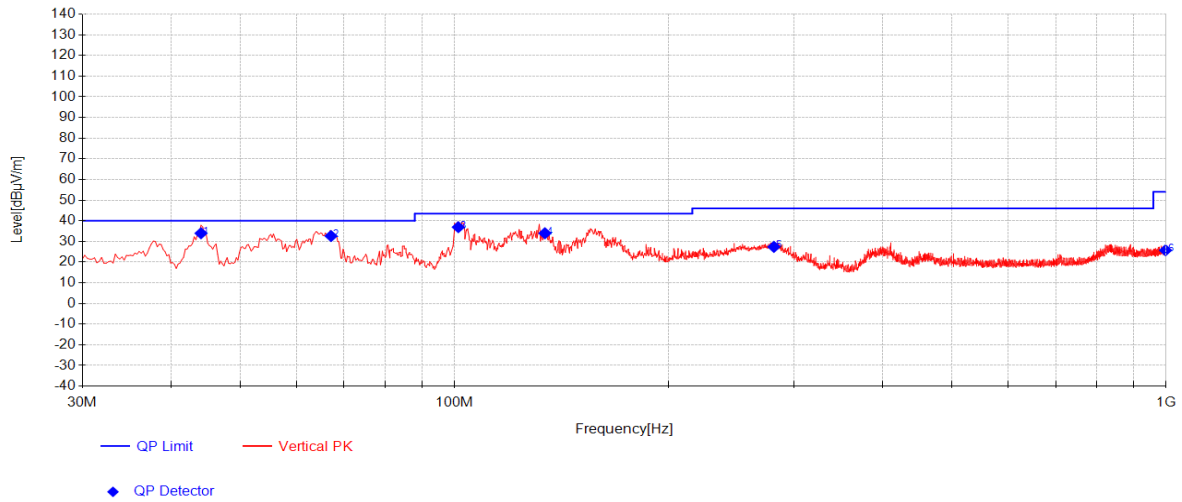
Test Mode: 02; Polarity: Horizontal



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	48.02	13.32	-33.79	27.55	40.00	12.45	184	358	Horizontal
2	65.6475	54.77	11.11	-33.48	32.41	40.00	7.59	162	21	Horizontal
3	100.0825	53	9.21	-33.12	29.09	43.50	14.41	147	286	Horizontal
4	132.335	47.79	12.24	-32.82	27.21	43.50	16.29	125	132	Horizontal
5	277.1075	52.02	12.30	-31.76	32.56	46.00	13.44	133	94	Horizontal
6	997.8175	28.83	24.48	-27.82	25.49	54.00	28.51	142	30	Horizontal

Test Mode: 02; Polarity: Vertical



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	54.44	13.32	-33.79	33.97	40.00	6.03	118	339	Vertical
2	67.1025	55.27	10.81	-33.46	32.62	40.00	7.38	123	240	Vertical
3	101.295	60.68	9.35	-33.11	36.92	43.50	6.58	162	289	Vertical
4	134.0325	54.43	12.34	-32.81	33.96	43.50	9.54	141	97	Vertical
5	281.23	46.69	12.42	-31.73	27.38	46.00	18.62	194	75	Vertical
6	998.545	29.06	24.49	-27.82	25.73	54.00	28.27	181	168	Vertical

7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.6 & 11.12

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

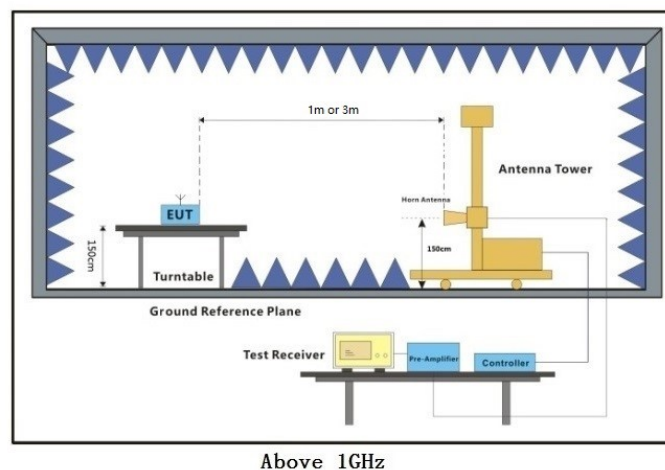
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g;data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



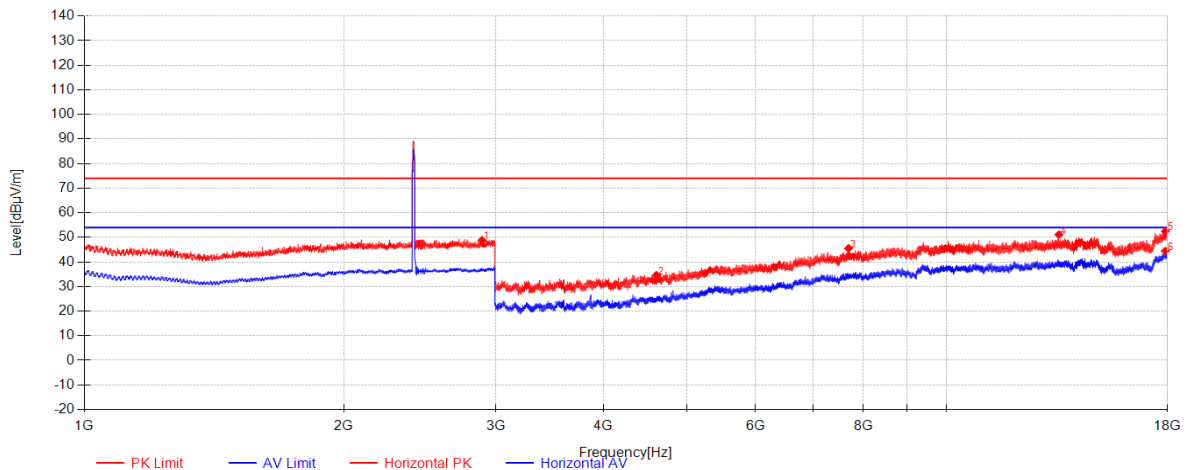
7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

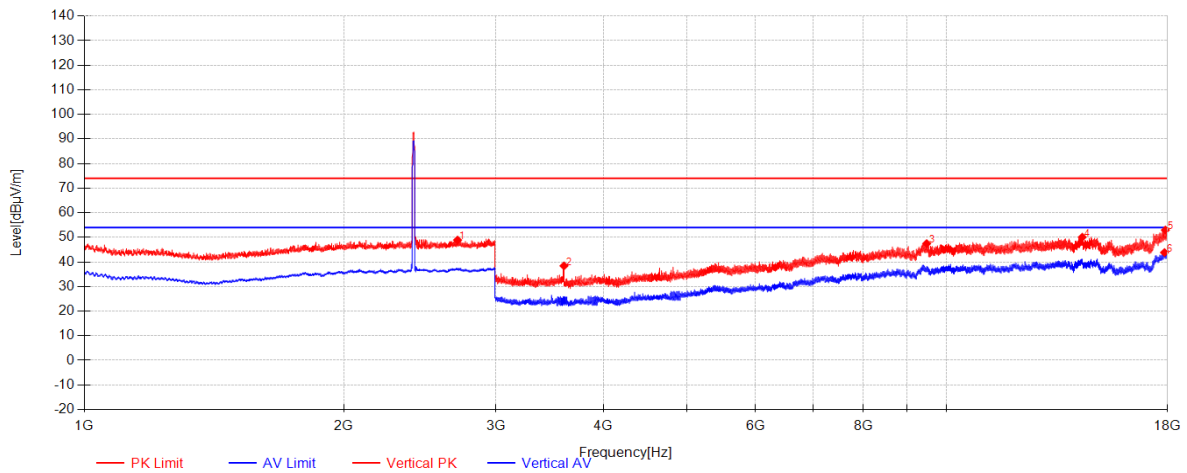
1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

11b_TX_CH_01_Horizontal



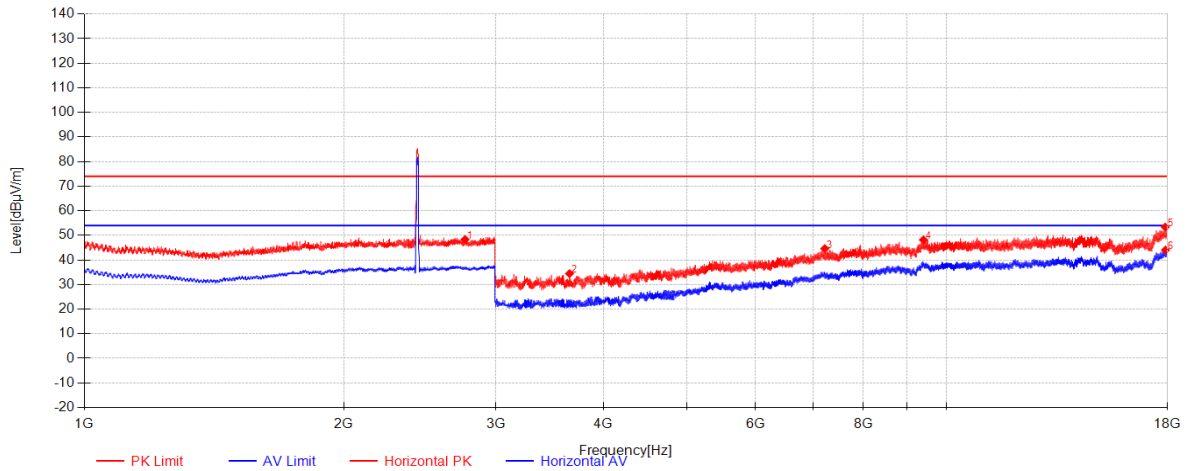
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2892.3333	43.92	27.91	-23.01	48.81	74.00	25.19	Horizontal
2	4606.125	52.28	30.33	-48.00	34.62	74.00	39.38	Horizontal
3	7691.25	54.30	36.36	-45.15	45.51	74.00	28.49	Horizontal
4	13486.5	50.76	39.53	-39.19	51.10	74.00	22.90	Horizontal
5	17920.5	46.53	44.32	-38.30	52.55	74.00	21.45	Horizontal
6	17919.375	38.44	44.32	-38.30	44.46	54.00	9.54	Horizontal

11b_TX_CH_01_Vertical



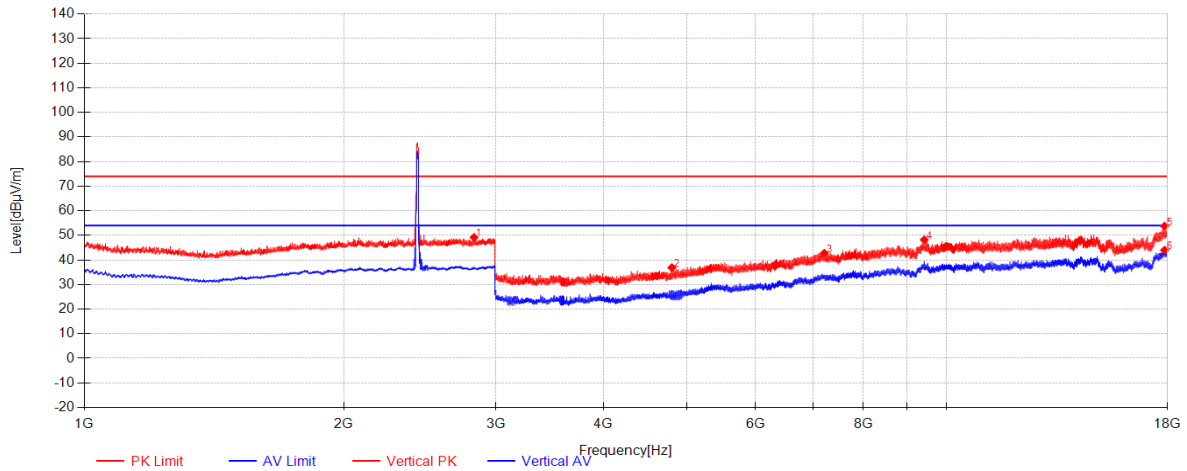
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2709.3333	44.32	27.58	-22.99	48.91	74.00	25.09	Vertical
2	3599.25	58.02	28.66	-48.28	38.40	74.00	35.60	Vertical
3	9477	51.93	38.07	-42.53	47.47	74.00	26.53	Vertical
4	14354.625	48.32	40.26	-38.51	50.08	74.00	23.92	Vertical
5	17917.875	46.96	44.31	-38.28	52.98	74.00	21.02	Vertical
6	17876.25	37.94	44.06	-38.16	43.84	54.00	10.16	Vertical

11b_TX_CH_06_Horizontal



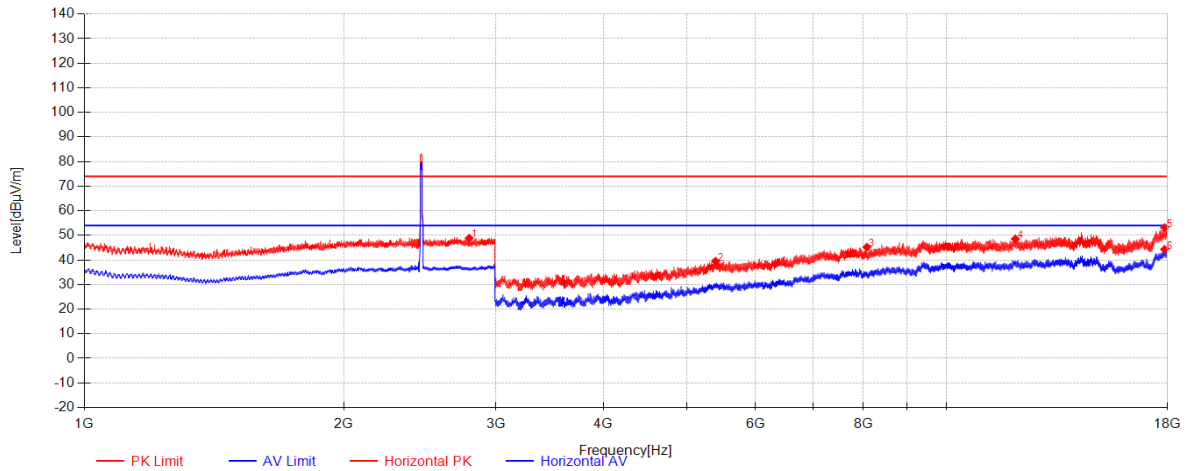
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2764	43.83	27.68	-23.16	48.34	74.00	25.66	Horizontal
2	3652.875	54.10	28.74	-48.40	34.44	74.00	39.56	Horizontal
3	7219.5	54.93	35.90	-46.19	44.63	74.00	29.37	Horizontal
4	9394.125	53.27	37.95	-43.04	48.18	74.00	25.82	Horizontal
5	17910	47.33	44.26	-38.23	53.37	74.00	20.63	Horizontal
6	17924.625	38.04	44.35	-38.33	44.05	54.00	9.95	Horizontal

11b_TX_CH_06_Vertical



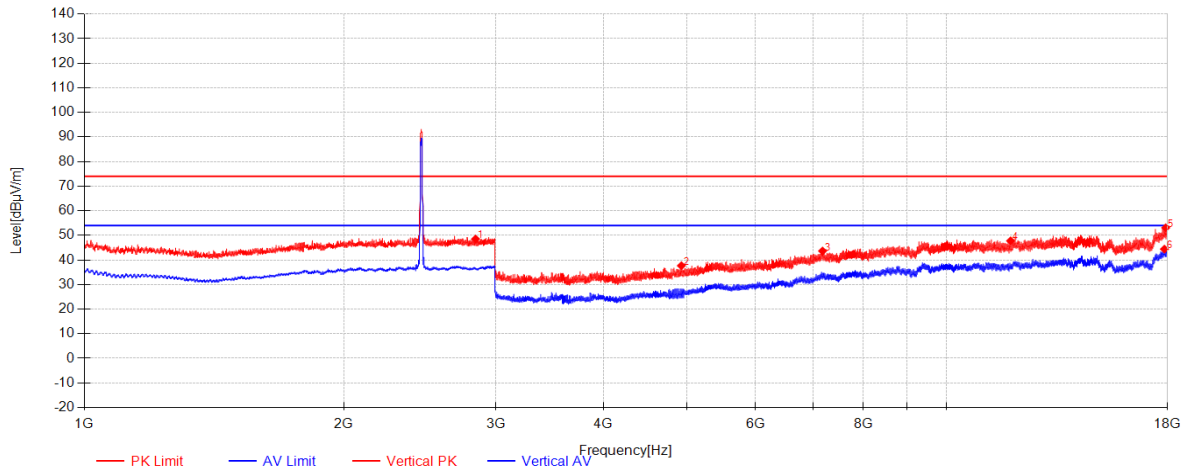
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2831.6667	44.58	27.80	-23.19	49.19	74.00	24.81	Vertical
2	4800.375	54.13	30.76	-48.01	36.88	74.00	37.12	Vertical
3	7209.375	53.09	35.88	-46.20	42.77	74.00	31.23	Vertical
4	9416.625	53.16	37.98	-42.94	48.21	74.00	25.79	Vertical
5	17878.125	47.85	44.07	-38.16	53.76	74.00	20.24	Vertical
6	17882.625	38.06	44.10	-38.16	44.00	54.00	10.00	Vertical

11b_TX_CH_11_Horizontal



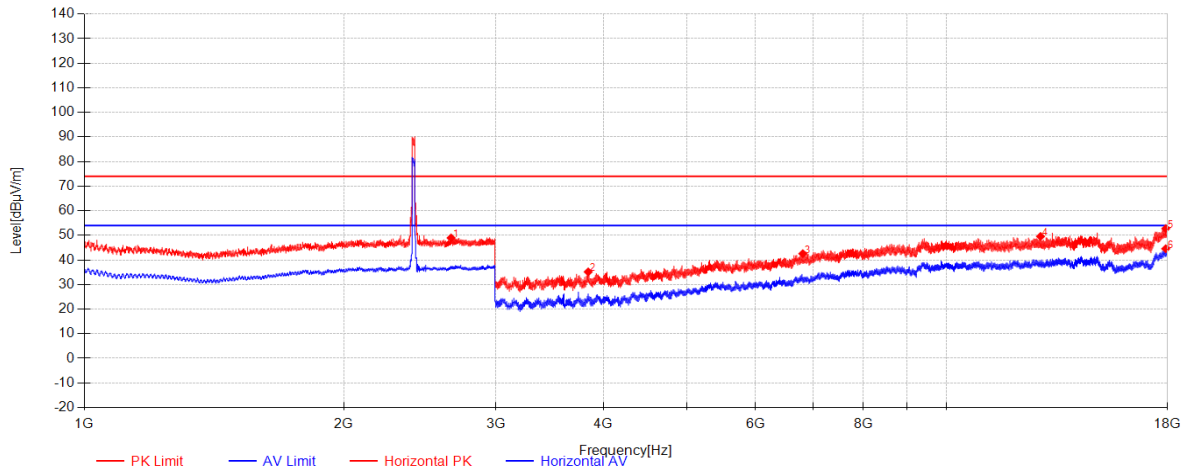
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2795	44.37	27.73	-23.26	48.84	74.00	25.16	Horizontal
2	5392.875	54.92	32.30	-47.72	39.50	74.00	34.50	Horizontal
3	8077.875	53.48	36.39	-44.67	45.19	74.00	28.81	Horizontal
4	12005.25	48.57	39.40	-39.43	48.54	74.00	25.46	Horizontal
5	17880.375	47.28	44.08	-38.16	53.20	74.00	20.80	Horizontal
6	17882.625	38.39	44.10	-38.16	44.33	54.00	9.67	Horizontal

11b_TX_CH_11_Vertical



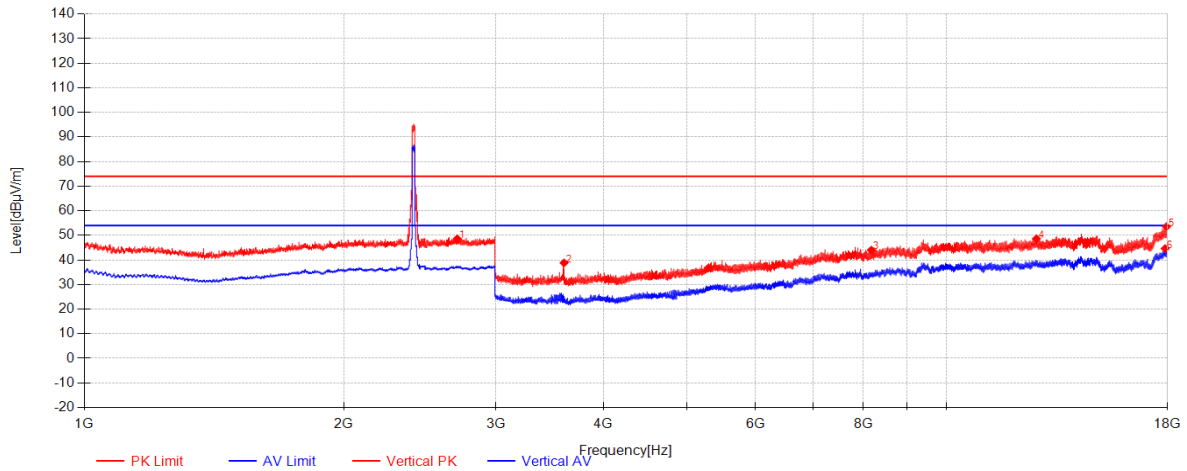
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2843	43.88	27.82	-23.16	48.54	74.00	25.46	Vertical
2	4924.125	54.65	31.03	-48.03	37.66	74.00	36.34	Vertical
3	7176.75	53.94	35.82	-46.11	43.64	74.00	30.36	Vertical
4	11854.875	48.29	39.41	-39.94	47.77	74.00	26.23	Vertical
5	17935.5	47.09	44.41	-38.42	53.09	74.00	20.91	Vertical
6	17873.625	38.52	44.04	-38.16	44.40	54.00	9.60	Vertical

11ax(HE20)_TX_CH_01_Horizontal



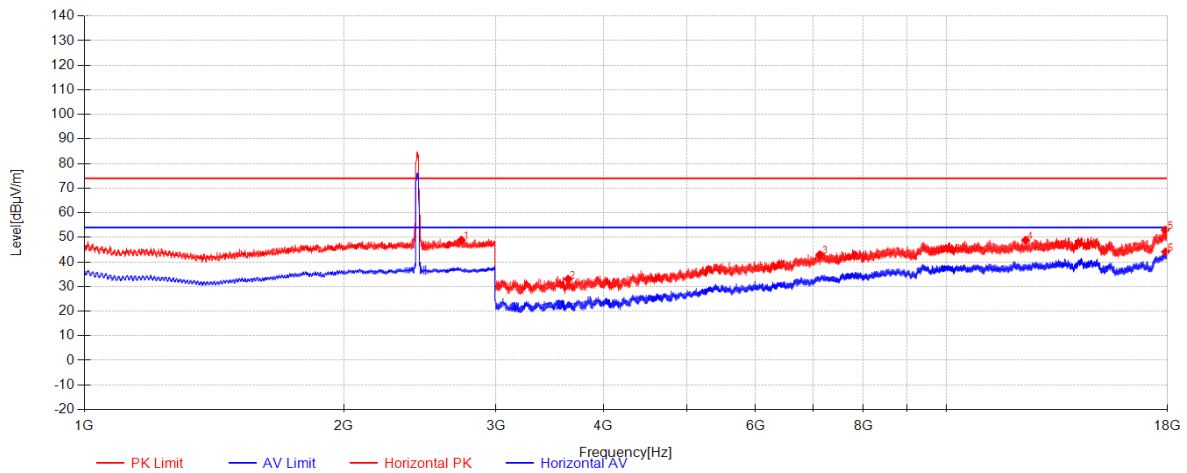
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2663	44.70	27.49	-23.22	48.97	74.00	25.03	Horizontal
2	3839.625	54.34	29.04	-48.22	35.16	74.00	38.84	Horizontal
3	6808.5	54.23	35.19	-46.88	42.55	74.00	31.45	Horizontal
4	12842.625	50.02	38.89	-39.36	49.56	74.00	24.44	Horizontal
5	17937.375	46.78	44.42	-38.43	52.77	74.00	21.23	Horizontal
6	17934.375	38.56	44.41	-38.41	44.56	54.00	9.44	Horizontal

11ax(HE20)_TX_CH_01_Vertical



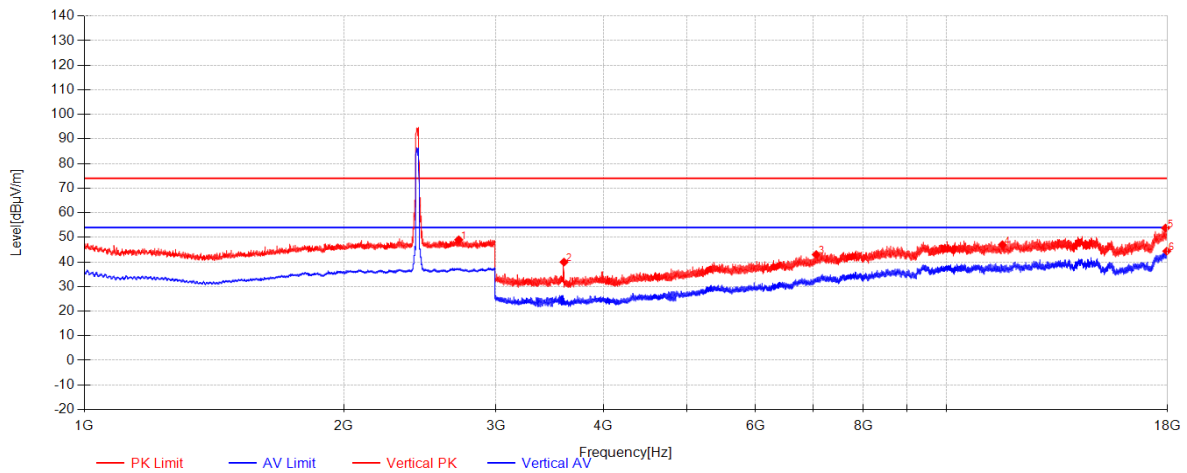
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2707	44.03	27.57	-22.98	48.62	74.00	25.38	Vertical
2	3599.625	58.42	28.66	-48.28	38.80	74.00	35.20	Vertical
3	8175.375	51.83	36.49	-44.33	44.00	74.00	30.00	Vertical
4	12701.25	48.93	38.98	-39.27	48.64	74.00	25.36	Vertical
5	17970	47.57	44.62	-38.68	53.52	74.00	20.48	Vertical
6	17908.125	38.59	44.25	-38.21	44.63	54.00	9.37	Vertical

11ax(HE20)_TX_CH_06_Horizontal



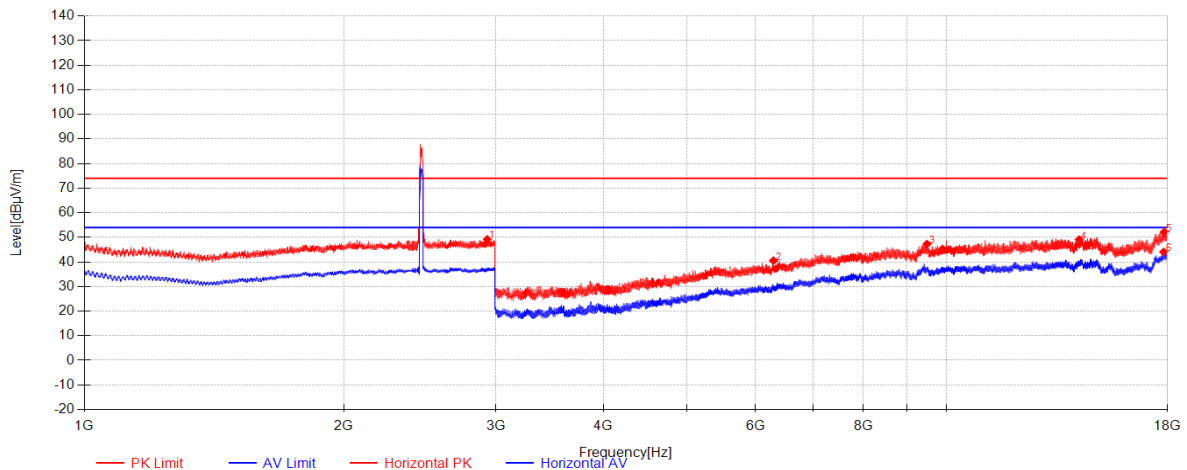
Data List								
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1	2737.3333	44.39	27.63	-23.08	48.94	74.00	25.06	Horizontal
2	3638.625	52.67	28.72	-48.37	33.02	74.00	40.98	Horizontal
3	7125	53.18	35.73	-45.92	42.98	74.00	31.02	Horizontal
4	12340.125	49.34	39.20	-39.66	48.87	74.00	25.13	Horizontal
5	17910	46.95	44.26	-38.23	52.99	74.00	21.01	Horizontal
6	17929.5	38.12	44.38	-38.37	44.13	54.00	9.87	Horizontal

11ax(HE20)_TX_CH_06_Vertical



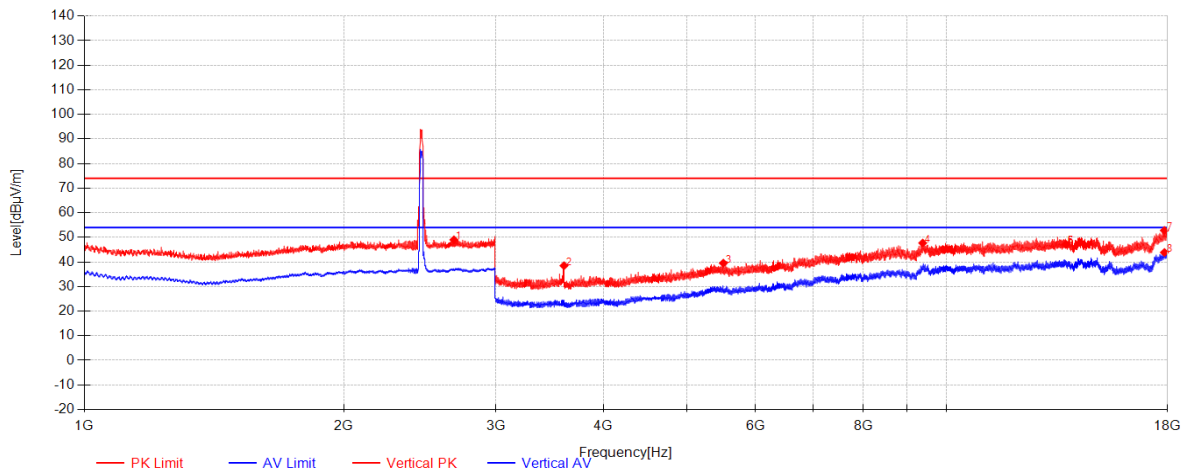
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2718	44.43	27.59	-23.02	49.00	74.00	25.00	Vertical
2	3599.625	59.57	28.66	-48.28	39.95	74.00	34.05	Vertical
3	7057.125	53.56	35.60	-46.16	43.00	74.00	31.00	Vertical
4	11599.5	47.34	39.44	-39.77	47.01	74.00	26.99	Vertical
5	17925.375	47.76	44.35	-38.34	53.77	74.00	20.23	Vertical
6	17986.875	38.48	44.72	-38.80	44.40	54.00	9.60	Vertical

11ax(HE20)_TX_CH_11_Horizontal



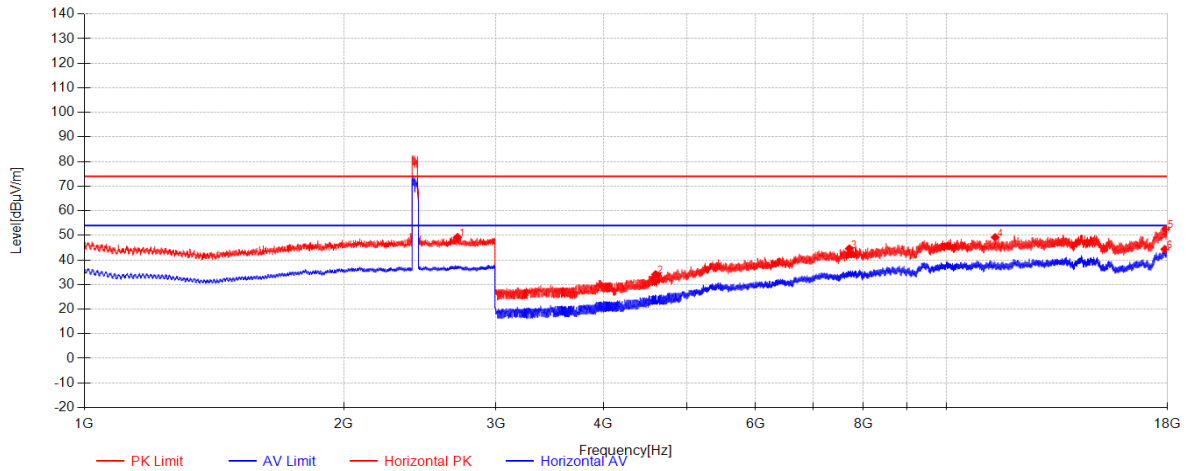
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2932.6667	44.04	27.98	-22.84	49.18	74.00	24.82	Horizontal
2	6294	53.94	33.92	-47.33	40.52	74.00	33.48	Horizontal
3	9482.625	51.68	38.08	-42.49	47.27	74.00	26.73	Horizontal
4	14234.25	47.40	40.28	-38.58	49.10	74.00	24.90	Horizontal
5	17863.125	46.38	43.98	-38.16	52.19	74.00	21.81	Horizontal
6	17837.625	38.43	43.83	-38.17	44.08	54.00	9.92	Horizontal

11ax(HE20)_TX_CH_11_Vertical



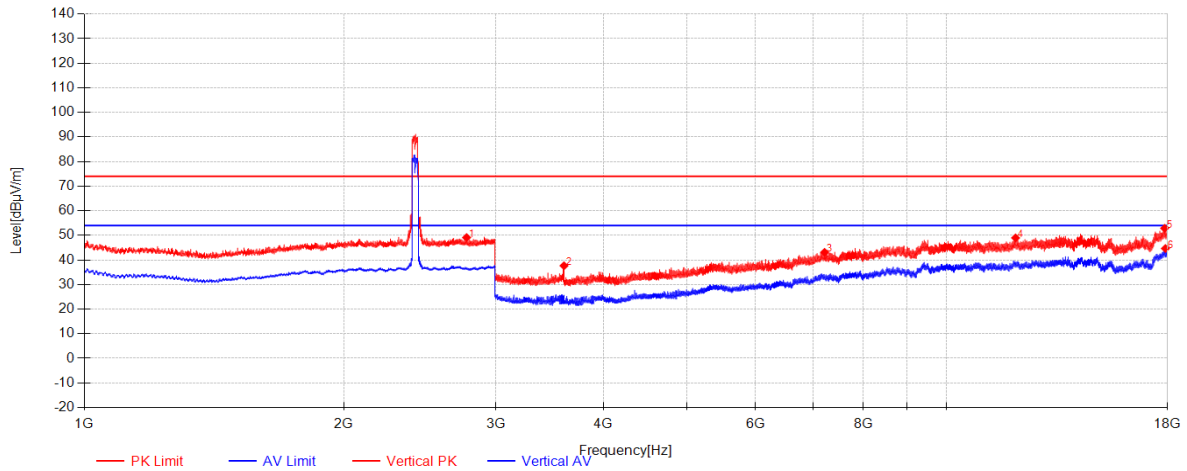
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2683.3333	44.55	27.53	-23.08	49.00	74.00	25.00	Vertical
2	3599.625	58.10	28.66	-48.28	38.48	74.00	35.52	Vertical
3	5507.625	54.52	32.60	-47.62	39.51	74.00	34.49	Vertical
4	9376.5	52.78	37.93	-43.01	47.70	74.00	26.30	Vertical
5	13740	45.59	39.91	-38.39	47.11	74.00	26.89	Vertical
6	13740	45.59	39.91	-38.39	47.11	74.00	26.89	Vertical
7	17872.125	46.95	44.03	-38.16	52.82	74.00	21.18	Vertical
8	17874	37.99	44.04	-38.16	43.87	54.00	10.13	Vertical

11ax(HE40)_TX_CH_03_Horizontal



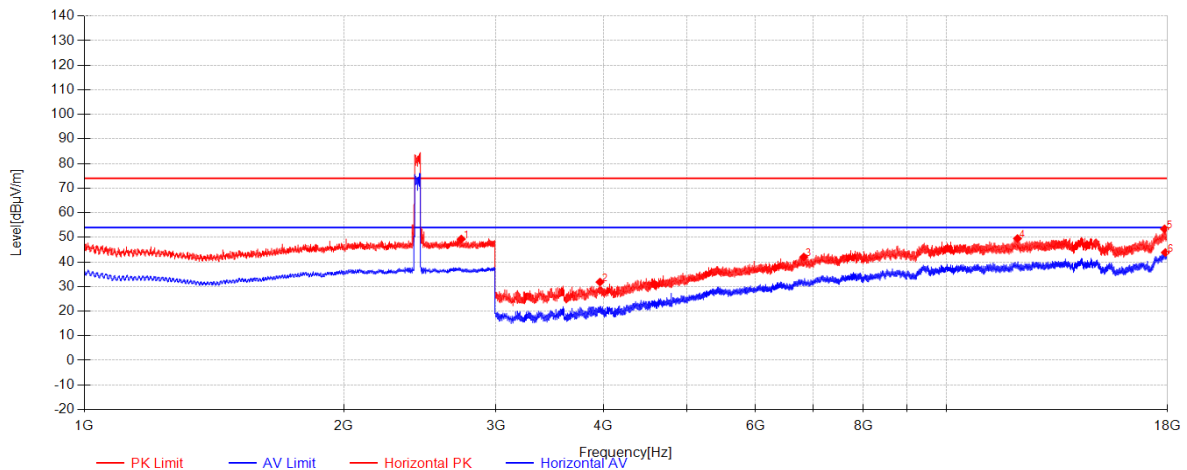
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2709	44.64	27.58	-22.99	49.23	74.00	24.77	Horizontal
2	4597.125	51.77	30.31	-48.00	34.08	74.00	39.92	Horizontal
3	7708.875	53.43	36.36	-45.18	44.60	74.00	29.40	Horizontal
4	11376.75	49.91	39.46	-40.17	49.20	74.00	24.80	Horizontal
5	17925.75	46.60	44.35	-38.34	52.61	74.00	21.39	Horizontal
6	17893.5	38.35	44.16	-38.15	44.36	54.00	9.64	Horizontal

11ax(HE40)_TX_CH_03_Vertical



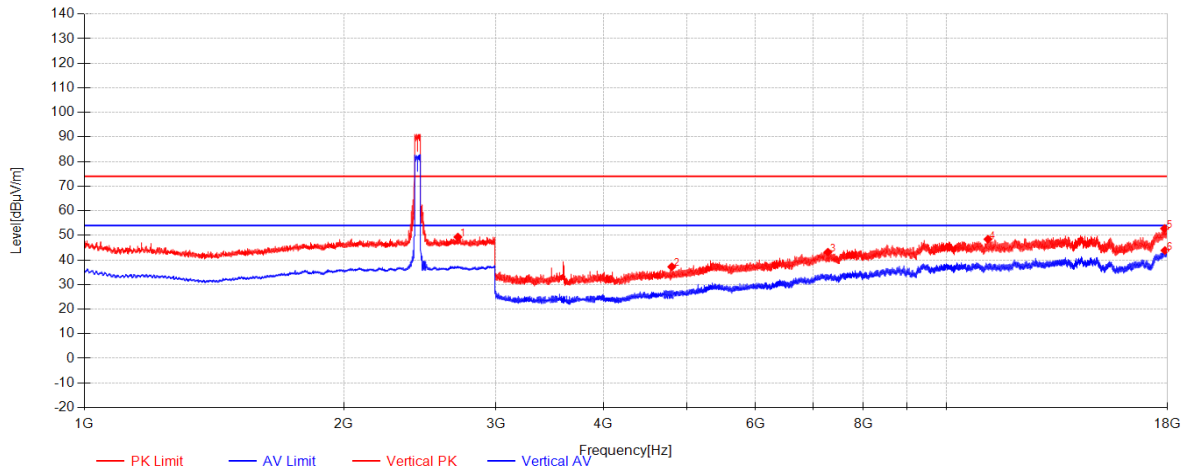
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2775.6667	44.63	27.70	-23.20	49.12	74.00	24.88	Vertical
2	3599.625	57.26	28.66	-48.28	37.64	74.00	36.36	Vertical
3	7216.125	53.40	35.89	-46.19	43.10	74.00	30.90	Vertical
4	12013.5	49.04	39.39	-39.45	48.98	74.00	25.02	Vertical
5	17883.375	46.94	44.10	-38.16	52.88	74.00	21.12	Vertical
6	17920.875	38.63	44.33	-38.31	44.65	54.00	9.35	Vertical

11ax(HE40)_TX_CH_06_Horizontal



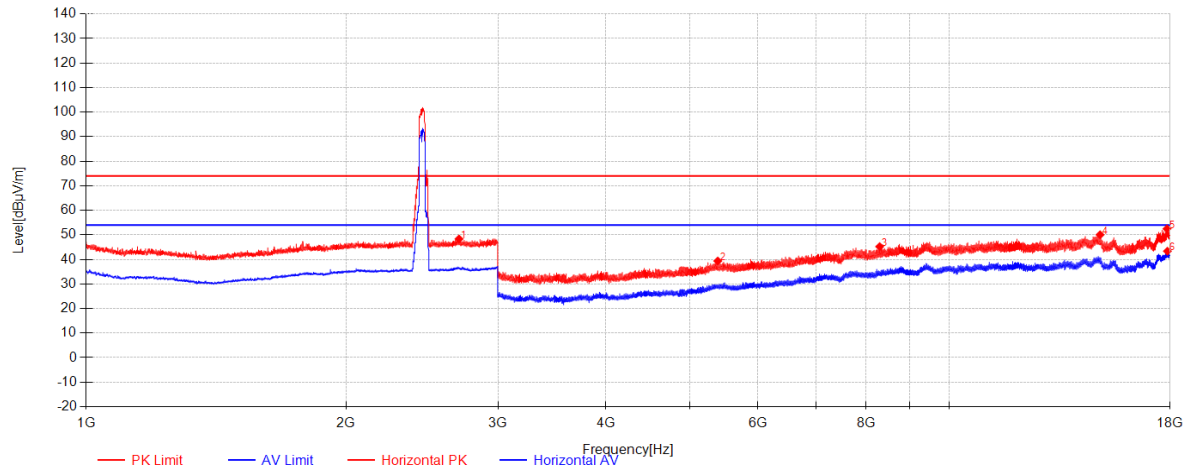
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2736.6667	44.77	27.63	-23.08	49.32	74.00	24.68	Horizontal
2	3962.625	50.81	29.24	-48.22	31.83	74.00	42.17	Horizontal
3	6827.25	53.62	35.22	-46.85	42.00	74.00	32.00	Horizontal
4	12076.125	49.73	39.35	-39.58	49.50	74.00	24.50	Horizontal
5	17880.75	47.50	44.08	-38.16	53.43	74.00	20.57	Horizontal
6	17919	37.81	44.31	-38.29	43.83	54.00	10.17	Horizontal

11ax(HE40)_TX_CH_06_Vertical



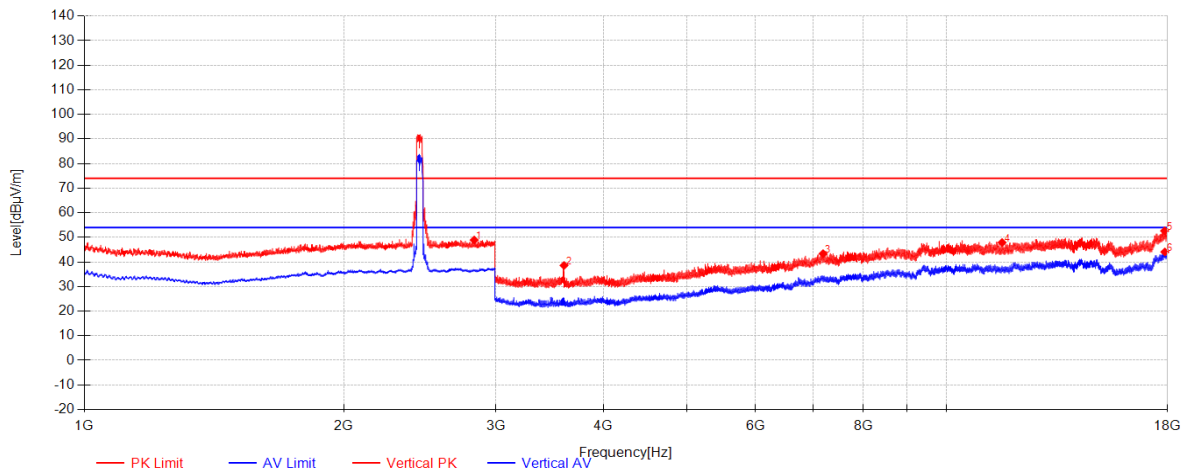
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2712	44.73	27.58	-23.00	49.31	74.00	24.69	Vertical
2	4799.625	54.46	30.76	-48.01	37.21	74.00	36.79	Vertical
3	7280.25	53.32	36.00	-46.17	43.16	74.00	30.84	Vertical
4	11161.125	49.28	39.48	-40.35	48.42	74.00	25.58	Vertical
5	17880.75	46.84	44.08	-38.16	52.77	74.00	21.23	Vertical
6	17898	37.81	44.19	-38.15	43.85	54.00	10.15	Vertical

11ax(HE40)_TX_CH_09_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2702.6667	43.74	27.56	-22.97	48.34	74.00	25.66	Horizontal
2	5388.375	54.80	32.29	-47.73	39.36	74.00	34.64	Horizontal
3	8298	53.13	36.63	-44.54	45.22	74.00	28.78	Horizontal
4	14936.25	47.44	40.21	-37.60	50.05	74.00	23.95	Horizontal
5	17856.75	46.69	43.94	-38.17	52.46	74.00	21.54	Horizontal
6	17874.75	37.48	44.05	-38.16	43.37	54.00	10.63	Horizontal

11ax(HE40)_TX_CH_09_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2832.6667	44.31	27.80	-23.19	48.92	74.00	25.08	Vertical
2	3600	58.19	28.66	-48.28	38.57	74.00	35.43	Vertical
3	7187.25	53.68	35.84	-46.15	43.36	74.00	30.64	Vertical
4	11589	48.27	39.44	-39.80	47.91	74.00	26.09	Vertical
5	17882.25	46.69	44.09	-38.16	52.63	74.00	21.37	Vertical
6	17892.75	38.07	44.16	-38.15	44.07	54.00	9.93	Vertical



7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10-2020/Cor1-2023 Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C

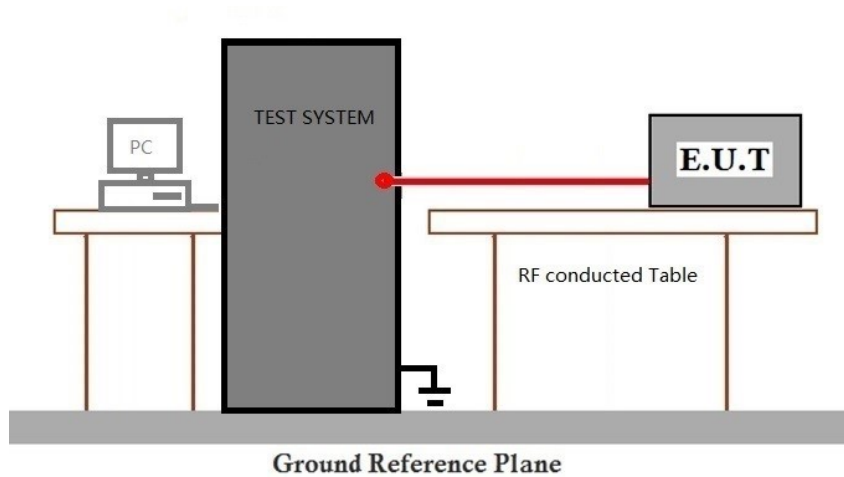
Humidity: 42 % RH

Atmospheric Pressure: 1021 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax 20/40, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix_Photos of Test Setup for SUCR2601000074AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_External Photos for SUCR2601000074AT and Appendix_Internal Photos for SUCR2601000074AT



10 Appendix

1. Maximum Conducted Output Power

1.1 Test Result

1.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT2	Limit	
802.11b	SISO	2412	/	/	10.16	<=30	Pass
		2437	/	/	10.13	<=30	Pass
		2462	/	/	10.12	<=30	Pass
802.11g	SISO	2412	/	/	9.98	<=30	Pass
		2437	/	/	10.03	<=30	Pass
		2462	/	/	9.99	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	9.94	<=30	Pass
		2437	/	/	10.12	<=30	Pass
		2462	/	/	10.00	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	10.01	<=30	Pass
		2437	/	/	9.95	<=30	Pass
		2452	/	/	10.03	<=30	Pass
802.11ac (VHT20)	SISO	2412	/	/	9.96	<=30	Pass
		2437	/	/	10.11	<=30	Pass
		2462	/	/	10.00	<=30	Pass
802.11ac (VHT40)	SISO	2422	/	/	9.93	<=30	Pass
		2437	/	/	10.04	<=30	Pass
		2452	/	/	9.86	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	9.98	<=30	Pass
		2437	SU	/	10.13	<=30	Pass
		2462	SU	/	10.01	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	9.95	<=30	Pass
		2437	SU	/	10.06	<=30	Pass
		2452	SU	/	9.88	<=30	Pass

- End of the Report -