

TEST REPORT

Application No.: SUCR2608000840TL
FCC ID: 2AH25T6F10HSGH
Applicant: Shanghai Sunmi Technology Co., Ltd.
Address of Applicant: Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co., Ltd.
Address of Manufacturer: Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Smart POS System
Model No.: T6F10
Trade Mark: SUNMI
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-08-28
Date of Test: 2026-09-02 to 2026-09-21
Date of Issue: 2026-09-21

Test Result:
Pass*

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2026-09-21	/

Authorized for issue by:				
Prepared By				
		Hayley_Zhang/Project Engineer		
Approved By				
		Cedar Cheng /Reviewer		

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
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 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+Cor.1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020+Cor.1-2023 Section 11.9	47 CFR Part 15, Subpart C 15.247(b)(3)	Reference report SZCR231100354202
Minimum 6dB Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	
Power Spectral Density		ANSI C63.10-2020+Cor.1-2023 Section 11.10	47 CFR Part 15, Subpart C 15.247(e)	
Conducted Band Edges Measurement		ANSI C63.10-2020+Cor.1-2023 Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	
Conducted Spurious Emissions		ANSI C63.10-2020+Cor.1-2023 Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	

Note: The Hyper Wi-Fi Module (Model: NSC1-00) has been certified, and the report number is SZCR231100354202 issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch, So, we only evaluate the Conducted Emissions at AC Power Line (150kHz-30MHz) and Radiated Spurious Emissions test of this sample, other test data please refer to module test report.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Adapter1(TPA-418G050200UU01): Input: 100-240V~50/60Hz 0.3A Output: 5.0V,2.0A Adapter2(TC513U-050200): Input: 100-240V~50/60Hz 0.35A Output: 5.0V,2.0A,10.0W
Operation Frequency:	903.5MHz-926.5MHz (1MHz Channel Bandwidth); 905MHz-925MHz (2MHz Channel Bandwidth); 906MHz-922MHz (4MHz Channel Bandwidth)
Modulation Type:	OFDM with BPSK/QPSK/16QAM/64QAM
Number of Channels:	24 Channels for 802.11ah(1MHz Channel Bandwidth); 11 Channels for 802.11ah(2MHz Channel Bandwidth); 5 Channels for 802.11ah(4MHz Channel Bandwidth)
Antenna Type:	FPC Antenna
Antenna Gain:	-1.20dBi (Provided by the manufacturer)

Channel list for 802.11ah			
Bandwidth (MHz)	Low Channel (MHz)	Middle Channel (MHz)	High Channel (MHz)
1	903.5	915.5	926.5
2	905	915	925
4	906	914	922

Selected test rate for 802.11ah			
Bandwidth (MHz)	Low Channel	Middle Channel	High Channel
1	MCS10	MCS10	MCS10
2	MCS0	MCS0	MCS0
4	MCS0	MCS0	MCS0

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	42-43%	
Value	Temperature(°C)	Voltage(V)
NTNV	23	7.74
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	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 1.56\text{dB}$ (9KHz-30MHz)
		$\pm 4.80\text{dB}$ (30MHz-1GHz)
		$\pm 4.80\text{dB}$ (1GHz-18GHz)
		$\pm 4.80\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1\%$
12	Time	$\pm 3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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 Tongfang 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 Tongfang Technical Services (Suzhou) Co., Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA).

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

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

- **ISED (CAB Identifier: CN0120)**

SGS Tongfang 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
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/14/2026	1/13/2027
2	LISN	R&S	ENV216	SUWI-01-19-03	4/22/2026	4/21/2027
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	4/22/2026	4/21/2027
4	Test Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R
5	Test Cable	Tonscend	NA	SUWI-01-03-04	4/22/2026	4/21/2027
RF Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/14/2026	1/13/2027
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	11/21/2025	11/20/2026
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/14/2026	1/13/2027
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	1/15/2026	1/14/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	1/14/2026	1/13/2027
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	1/15/2026	1/14/2027
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	4/22/2026	4/21/2027
8	Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	11/20/2025	11/19/2026
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/20/2025	11/19/2026
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/20/2025	11/19/2026
11	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/11/2026	2/10/2027
12	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	4/28/2026	4/27/2027
13	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
14	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
15	RFCables	Tonscend	NA	SUWI-01-03-01	1/15/2026	1/14/2027
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/9/2026	6/8/2029
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/14/2026	1/13/2027
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/20/2025	11/19/2026
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/14/2026	1/13/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	1/14/2026	1/13/2027
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	11/29/2025	11/28/2027
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027

8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/14/2026	1/13/2027
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/14/2026	1/13/2027
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/14/2026	1/13/2027
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	7/29/2026	7/28/2027
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/20/2025	11/19/2026
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	7/29/2026	7/28/2027
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-06	11/21/2025	11/20/2026
17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/14/2026	1/13/2027
18	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/11/2026	2/10/2027
19	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR
20	RF Control unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
21	RF Cables	Tonscend	NA	SUWI-01-03-02	1/15/2026	1/14/2027

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 FPC Antenna and no consideration of replacement. The best case gain of the antenna is -1.20dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

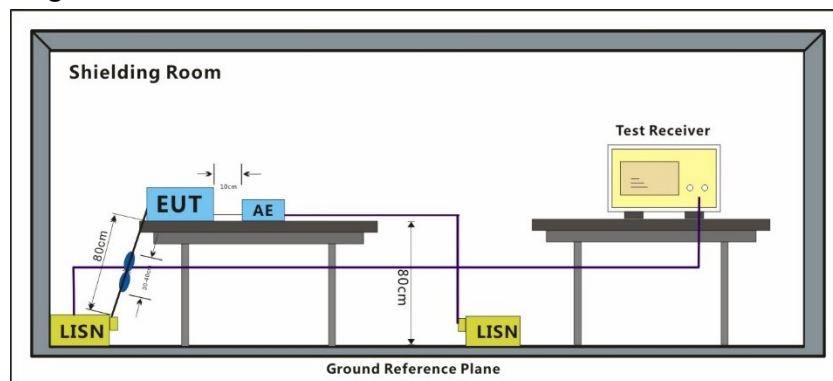
Operating Environment:

Temperature: 23 °C Humidity: 42 % RH Atmospheric Pressure: 1001 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_Keep the EUT in continuously transmitting mode

7.1.3 Test Setup Diagram

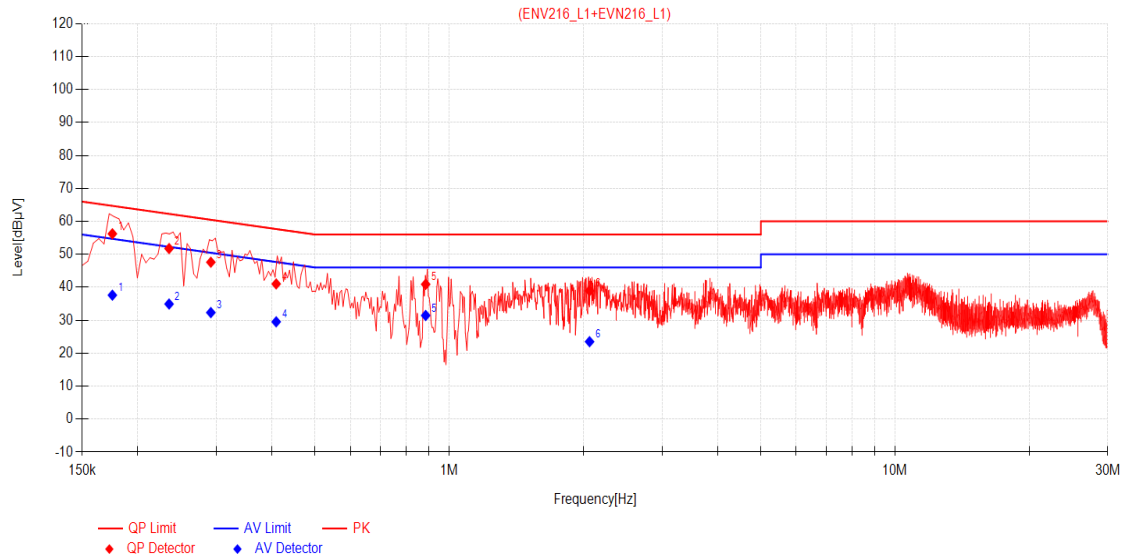


7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

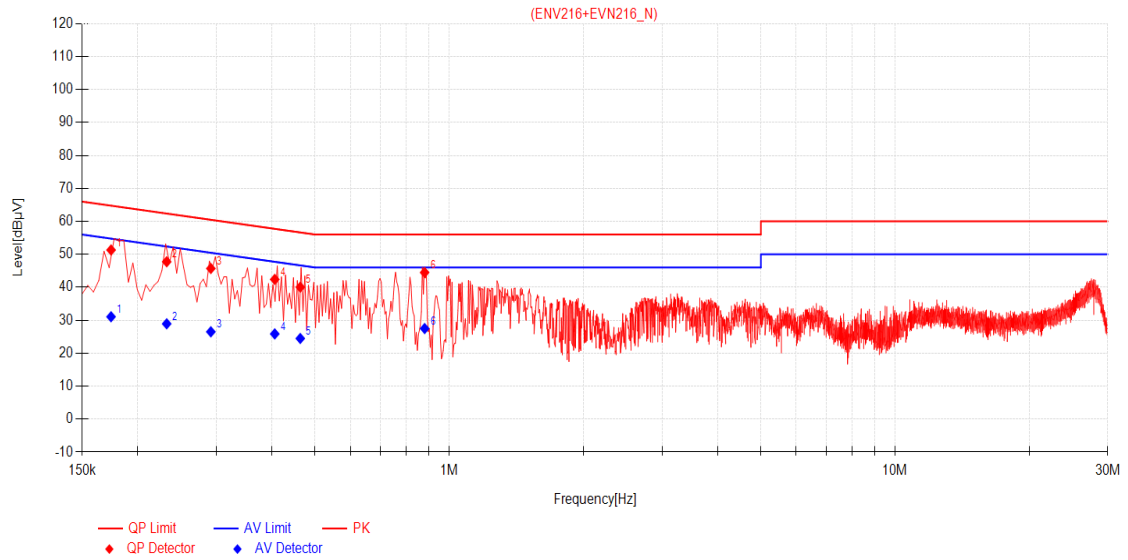
Test Mode: 05; Line: Live line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1754	9.96	46.26	56.22	64.70	8.48	27.64	37.60	54.70	17.10	PASS
2	0.2351	9.97	41.78	51.75	62.27	10.52	24.95	34.92	52.27	17.35	PASS
3	0.2917	9.97	37.63	47.60	60.48	12.88	22.35	32.32	50.48	18.16	PASS
4	0.4088	9.95	31.07	41.02	57.67	16.65	19.57	29.52	47.67	18.15	PASS
5	0.8850	9.94	30.97	40.91	56.00	15.09	21.50	31.44	46.00	14.56	PASS
6	2.0638	9.96	28.99	38.95	56.00	17.05	13.54	23.50	46.00	22.50	PASS

Test Mode: 05; Line: Neutral Line



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1742	9.95	41.36	51.31	64.76	13.45	21.11	31.06	54.76	23.70	PASS
2	0.2322	9.97	37.77	47.74	62.37	14.63	18.95	28.92	52.37	23.45	PASS
3	0.2917	9.97	35.73	45.70	60.48	14.78	16.53	26.50	50.48	23.98	PASS
4	0.4058	9.94	32.45	42.39	57.73	15.34	15.92	25.86	47.73	21.87	PASS
5	0.4630	9.91	30.13	40.04	56.64	16.60	14.56	24.47	46.64	22.17	PASS
6	0.8802	9.91	34.58	44.49	56.00	11.51	17.58	27.49	46.00	18.51	PASS

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+Cor.1-2023 Section 6.4,6.5
 Measurement Distance: 3m

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field strength (dBμV/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 above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

7.2.1 E.U.T. Operation

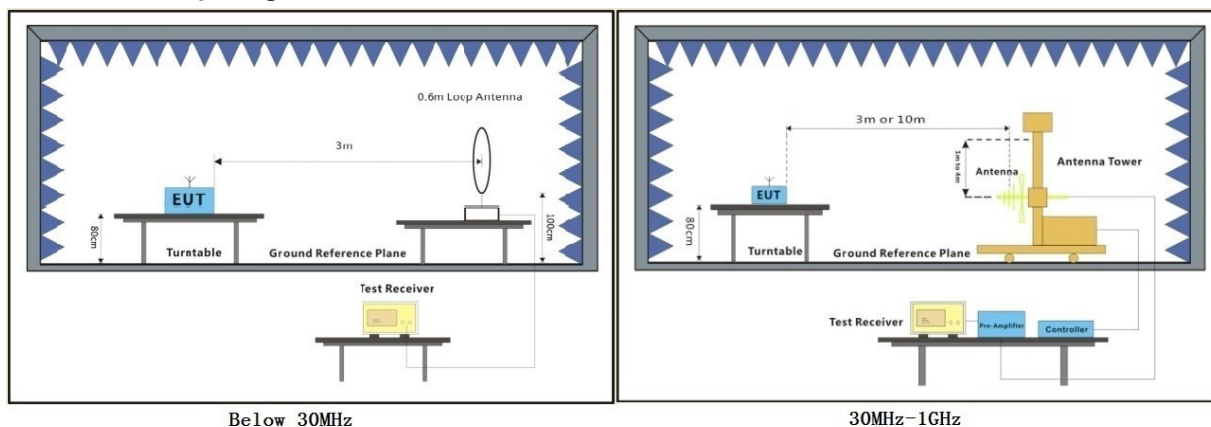
Operating Environment:

Temperature: 23 °C Humidity: 43 % RH Atmospheric Pressure: 1001 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_Keep the EUT in continuously transmitting mode

7.2.3 Test Setup Diagram



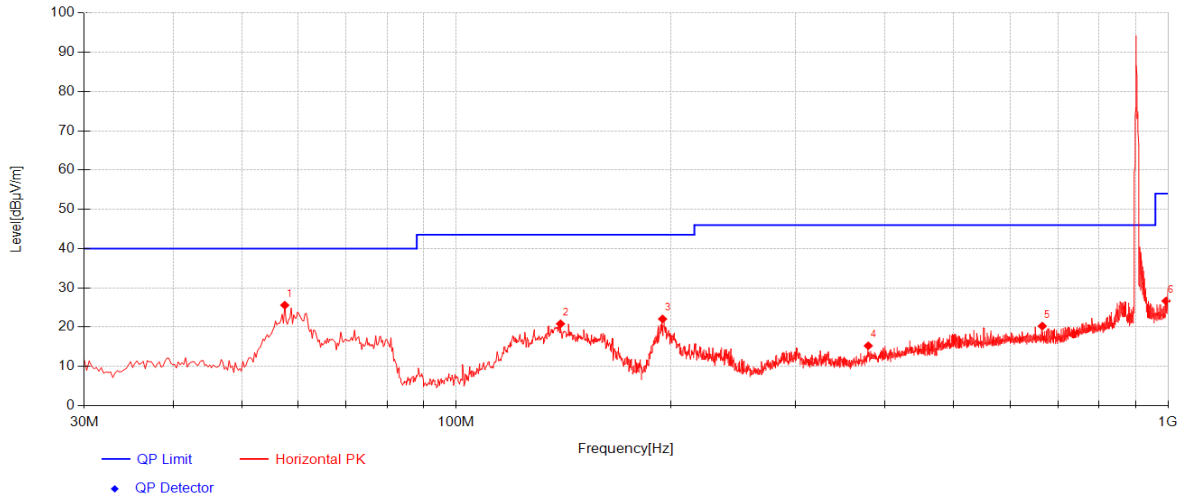
7.2.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- 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 (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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

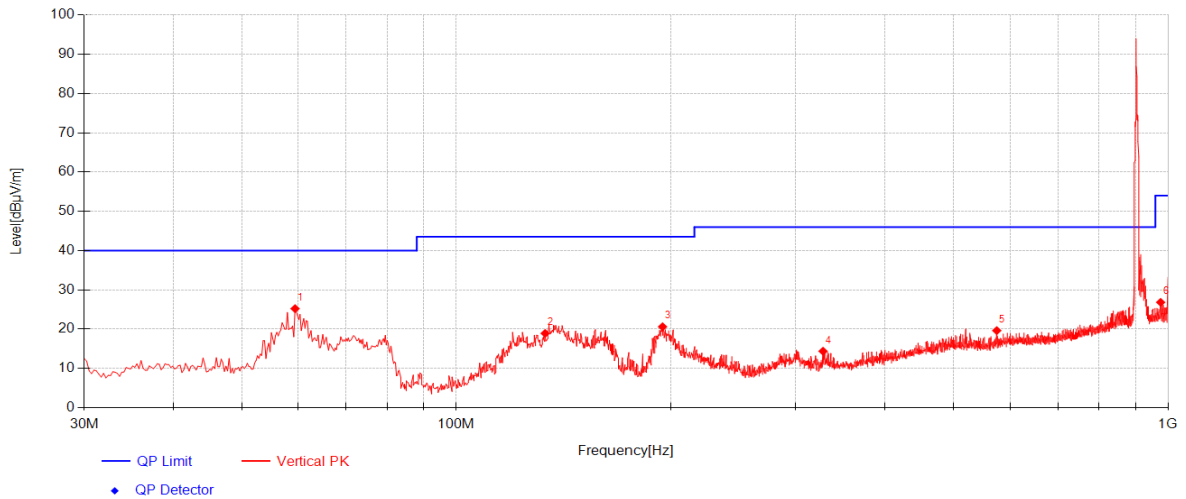
- 1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

Test Mode: 05; Polarity: Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	57.4025	55.55	12.63	-42.59	25.59	40.00	14.41	Horizontal
2	140.095	49.83	12.60	-41.58	20.85	43.50	22.65	Horizontal
3	194.9	53.76	10.05	-41.73	22.09	43.50	21.41	Horizontal
4	379.2	41.11	15.00	-40.86	15.25	46.00	30.75	Horizontal
5	665.835	39.88	20.06	-39.67	20.27	46.00	25.73	Horizontal
6	993.695	40.08	24.64	-38.06	26.67	54.00	27.33	Horizontal

Test Mode: 05; Polarity: Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	59.3425	55.33	12.46	-42.57	25.22	40.00	14.78	Vertical
2	133.305	48.44	12.16	-41.68	18.92	43.50	24.58	Vertical
3	194.9	52.28	10.05	-41.73	20.61	43.50	22.89	Vertical
4	327.5475	41.95	13.50	-41.07	14.38	46.00	31.62	Vertical
5	574.655	40.38	19.14	-39.89	19.63	46.00	26.37	Vertical
6	976.4775	40.34	24.49	-38.00	26.83	54.00	27.17	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+Cor.1-2023 Section 6.6 & 11.12

Measurement Distance: 3m

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

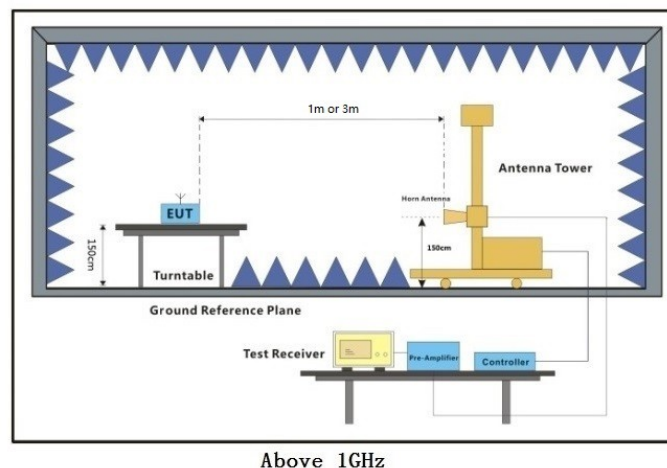
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode_Keep the EUT in continuously transmitting mode

7.3.3 Test Setup Diagram



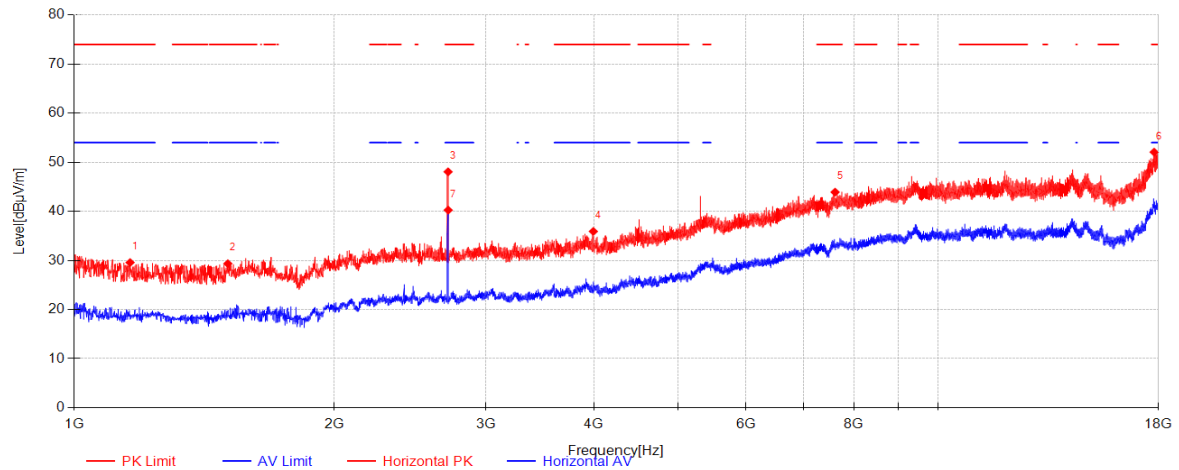
7.3.4 Measurement Procedure and Data

- 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:

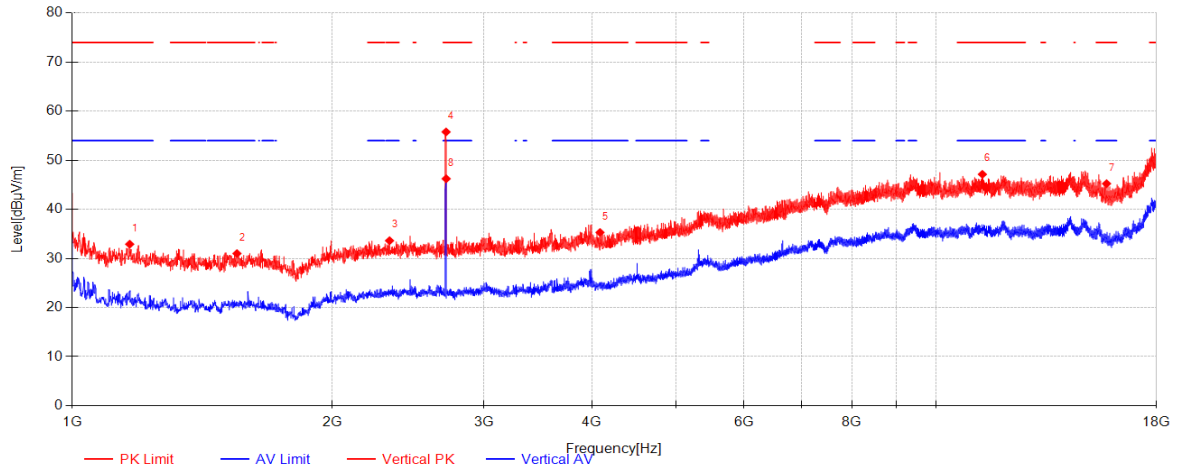
1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits 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).

11ah_1M_TX_CH_Low_Horizontal



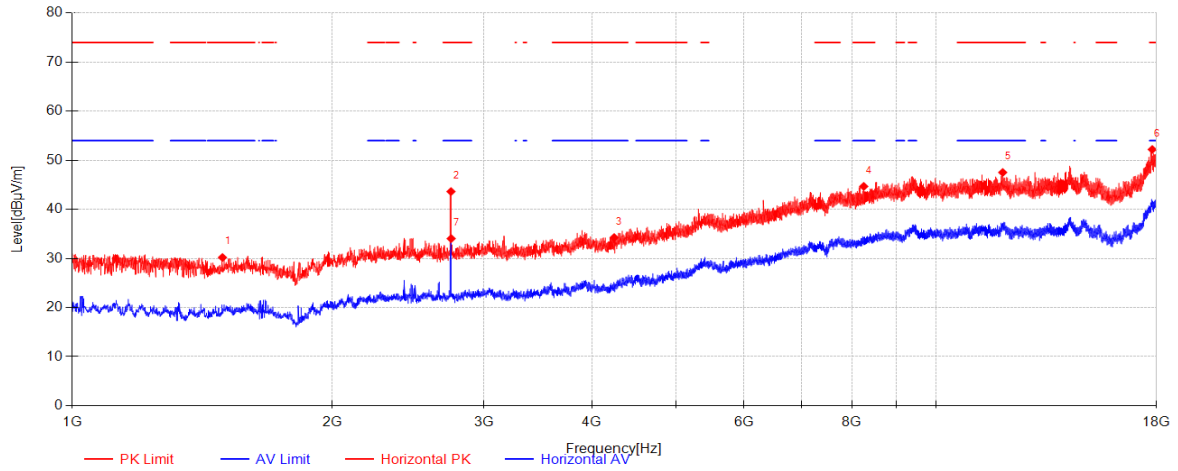
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1160.7917	54.87	24.82	-50.12	29.57	74.00	44.43	Horizontal
2	1506.4583	54.33	24.85	-49.84	29.34	74.00	44.66	Horizontal
3	2710.625	69.44	27.58	-48.97	48.05	74.00	25.95	Horizontal
4	3992.7083	54.98	29.29	-48.36	35.91	74.00	38.09	Horizontal
5	7607.3333	52.25	36.38	-44.71	43.91	74.00	30.09	Horizontal
6	17816.5417	44.15	43.70	-35.79	52.06	74.00	21.94	Horizontal
7	2711.3333	61.63	27.58	-48.96	40.25	54.00	13.75	Horizontal

11ah_1M_TX_CH_Low_Vertical



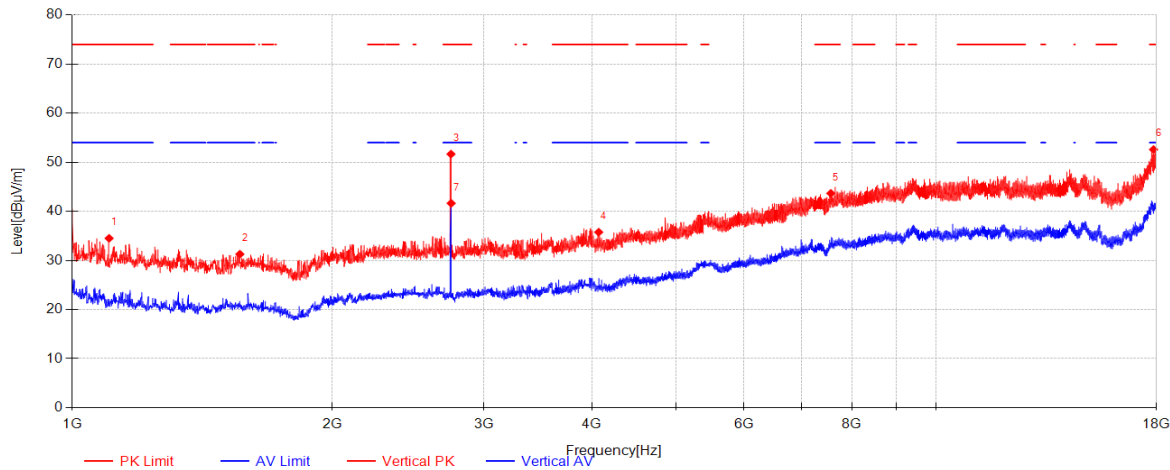
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1165.75	58.22	24.82	-50.13	32.90	74.00	41.10	Vertical
2	1551.7917	55.72	25.16	-49.88	31.00	74.00	43.00	Vertical
3	2330.9583	55.95	26.90	-49.24	33.61	74.00	40.39	Vertical
4	2710.625	77.16	27.58	-48.97	55.77	74.00	18.23	Vertical
5	4086.2083	54.12	29.44	-48.27	35.29	74.00	38.71	Vertical
6	11328.2083	48.14	39.47	-40.47	47.13	74.00	26.87	Vertical
7	15775.8333	44.51	38.80	-38.08	45.23	74.00	28.77	Vertical
8	2711.3333	67.61	27.58	-48.96	46.23	54.00	7.77	Vertical

11ah_1M_TX_CH_Mid_Horizontal



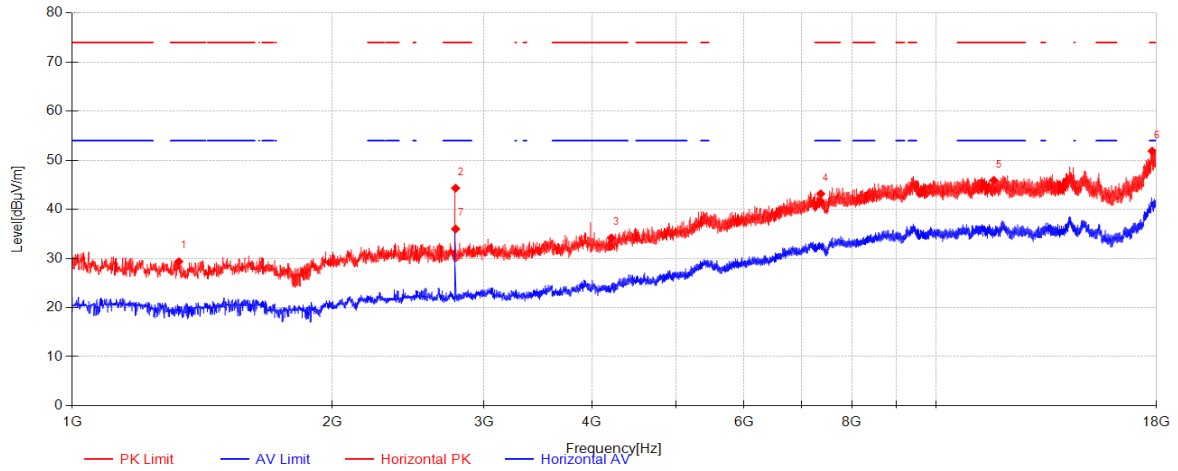
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1493	55.28	24.75	-49.84	30.19	74.00	43.81	Horizontal
2	2746.0417	64.83	27.64	-48.85	43.62	74.00	30.38	Horizontal
3	4243.4583	52.79	29.69	-48.22	34.26	74.00	39.74	Horizontal
4	8256.1667	52.63	36.58	-44.54	44.67	74.00	29.33	Horizontal
5	11960.0417	47.54	39.40	-39.44	47.51	74.00	26.49	Horizontal
6	17820.0833	44.31	43.72	-35.83	52.20	74.00	21.80	Horizontal
7	2747.4583	55.24	27.65	-48.85	34.04	54.00	19.96	Horizontal

11ah_1M_TX_CH_Mid_Vertical



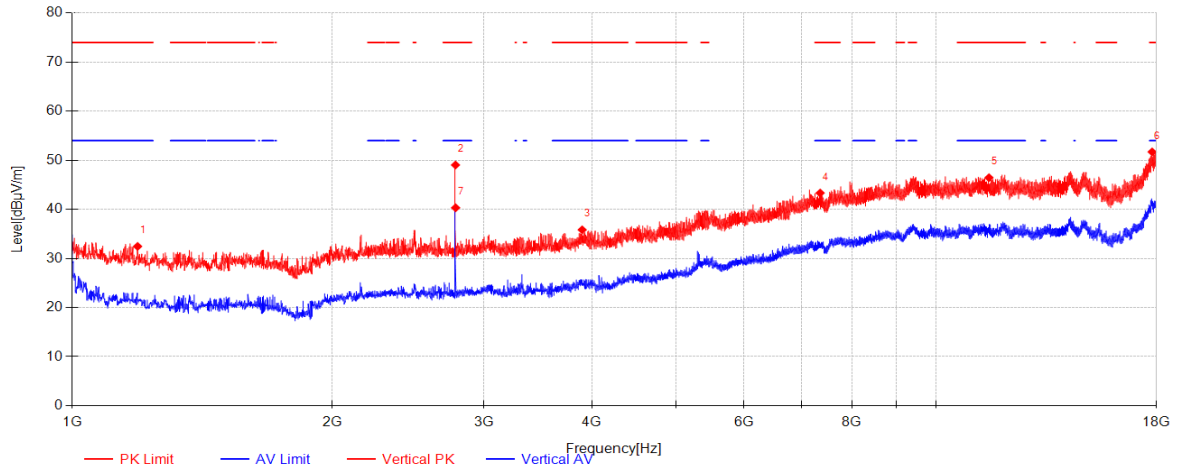
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1103.4167	59.61	24.85	-49.96	34.50	74.00	39.50	Vertical
2	1563.8333	55.92	25.25	-49.89	31.27	74.00	42.73	Vertical
3	2746.0417	72.87	27.64	-48.85	51.66	74.00	22.34	Vertical
4	4072.0417	54.62	29.42	-48.29	35.75	74.00	38.25	Vertical
5	7562.7083	52.55	36.39	-45.27	43.66	74.00	30.34	Vertical
6	17882.4167	44.90	44.09	-36.41	52.59	74.00	21.41	Vertical
7	2747.4583	62.84	27.65	-48.85	41.64	54.00	12.36	Vertical

11ah_1M_TX_CH_High_Horizontal



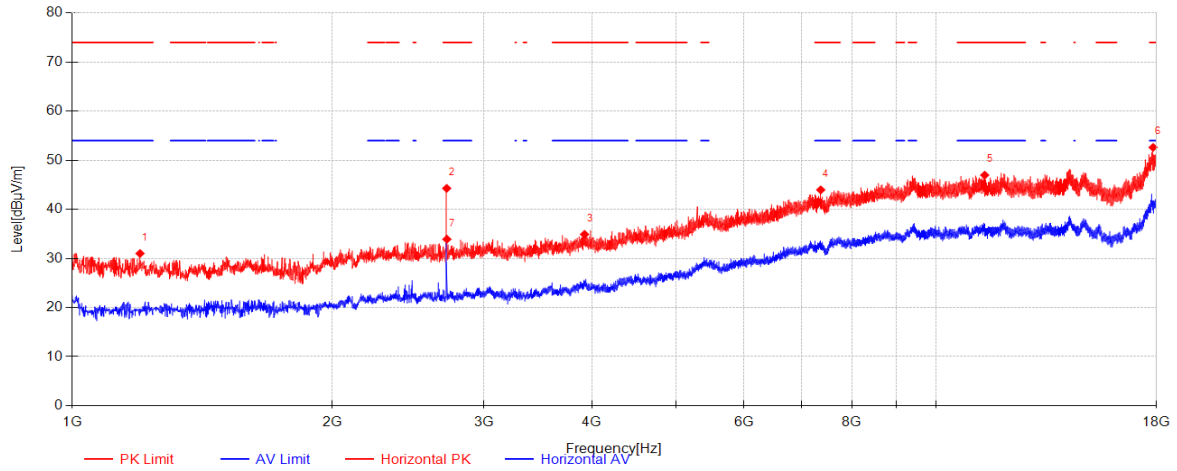
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1328.6667	55.10	24.35	-50.10	29.35	74.00	44.65	Horizontal
2	2780.0417	65.36	27.70	-48.74	44.32	74.00	29.68	Horizontal
3	4211.5833	52.86	29.64	-48.32	34.18	74.00	39.82	Horizontal
4	7360.125	53.03	36.15	-46.02	43.16	74.00	30.84	Horizontal
5	11680.25	46.39	39.43	-39.91	45.91	74.00	28.09	Horizontal
6	17815.8333	43.97	43.70	-35.79	51.88	74.00	22.12	Horizontal
7	2780.0417	57.04	27.70	-48.74	36.00	54.00	18.00	Horizontal

11ah_1M_TX_CH_High_Vertical



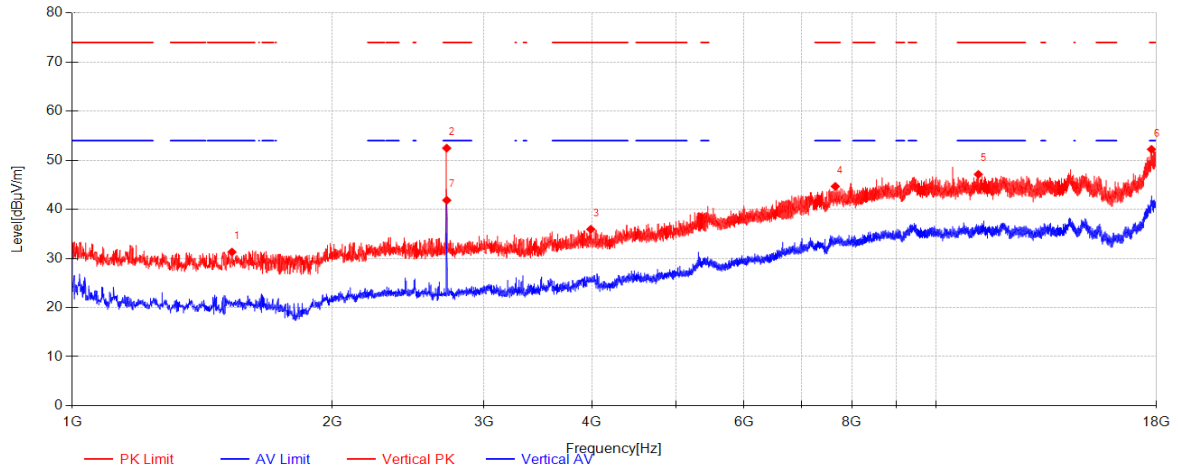
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1190.5417	57.85	24.80	-50.20	32.45	74.00	41.55	Vertical
2	2779.3333	70.07	27.70	-48.75	49.03	74.00	24.97	Vertical
3	3896.375	55.13	29.13	-48.43	35.83	74.00	38.17	Vertical
4	7350.2083	53.23	36.13	-46.03	43.33	74.00	30.67	Vertical
5	11529.375	46.83	39.45	-39.83	46.45	74.00	27.55	Vertical
6	17815.8333	43.79	43.70	-35.79	51.70	74.00	22.30	Vertical
7	2780.0417	61.36	27.70	-48.74	40.32	54.00	13.68	Vertical

11ah_2M_TX_CH_Low_Horizontal



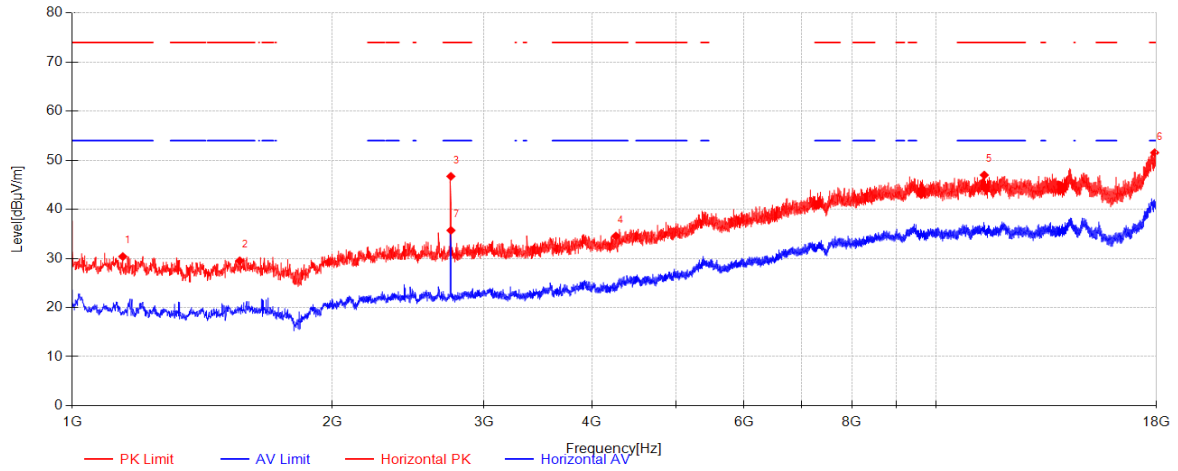
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1198.3333	56.42	24.80	-50.23	31.00	74.00	43.00	Horizontal
2	2714.875	65.64	27.59	-48.95	44.27	74.00	29.73	Horizontal
3	3921.1667	54.14	29.17	-48.41	34.90	74.00	39.10	Horizontal
4	7361.5417	53.83	36.15	-46.02	43.96	74.00	30.04	Horizontal
5	11399.75	47.74	39.46	-40.23	46.97	74.00	27.03	Horizontal
6	17862.5833	44.87	43.98	-36.22	52.62	74.00	21.38	Horizontal
7	2716.2917	55.27	27.59	-48.95	33.91	54.00	20.09	Horizontal

11ah_2M_TX_CH_Low_Vertical



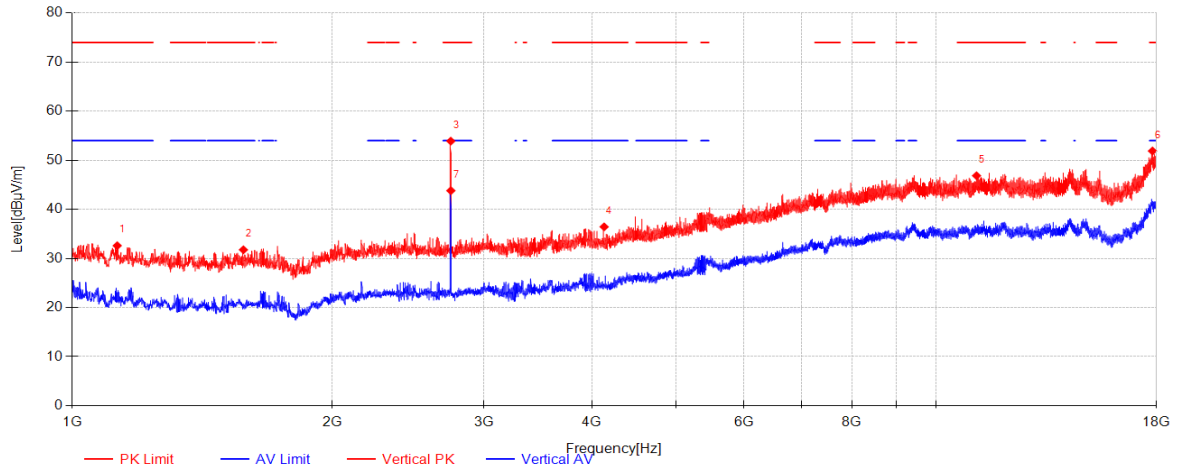
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1531.25	56.14	25.02	-49.86	31.30	74.00	42.70	Vertical
2	2714.875	73.83	27.59	-48.95	52.46	74.00	21.54	Vertical
3	3987.0417	55.01	29.28	-48.36	35.93	74.00	38.07	Vertical
4	7653.375	53.30	36.37	-45.00	44.67	74.00	29.33	Vertical
5	11208.5	48.01	39.48	-40.37	47.12	74.00	26.88	Vertical
6	17784.6667	44.49	43.51	-35.77	52.22	74.00	21.78	Vertical
7	2715.5833	63.21	27.59	-48.95	41.85	54.00	12.15	Vertical

11ah_2M_TX_CH_Mid_Horizontal



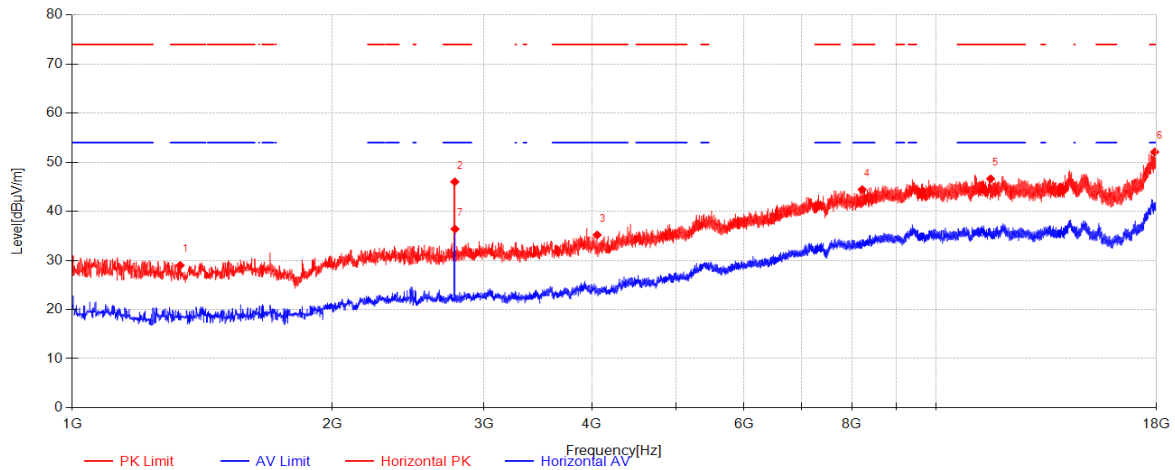
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1144.5	55.63	24.83	-50.07	30.38	74.00	43.62	Horizontal
2	1563.125	54.17	25.24	-49.89	29.52	74.00	44.48	Horizontal
3	2745.3333	67.93	27.64	-48.85	46.72	74.00	27.28	Horizontal
4	4263.2917	53.00	29.72	-48.15	34.57	74.00	39.43	Horizontal
5	11387	47.79	39.46	-40.27	46.98	74.00	27.02	Horizontal
6	17935.5417	43.92	44.41	-36.79	51.54	74.00	22.46	Horizontal
7	2746.0417	56.92	27.64	-48.85	35.71	54.00	18.29	Horizontal

11ah_2M_TX_CH_Mid_Vertical



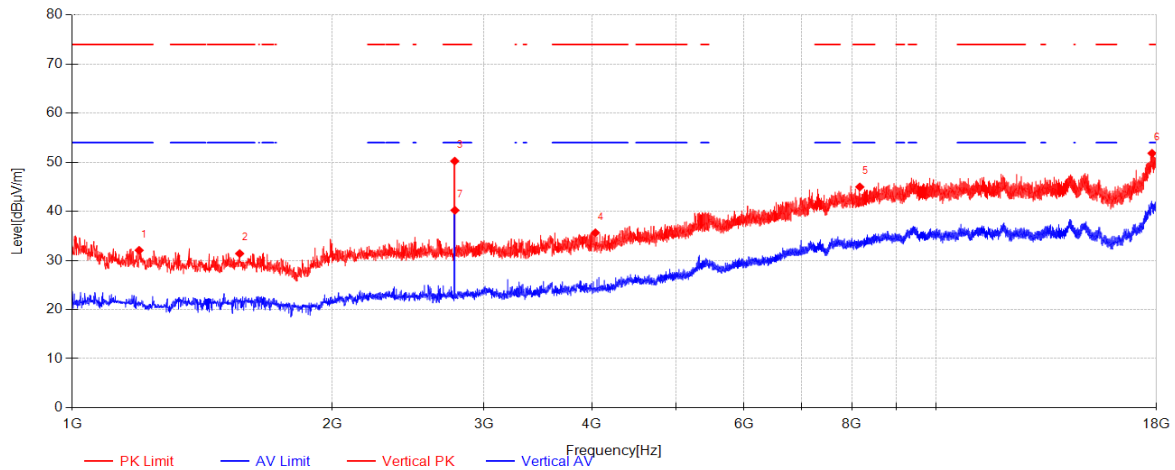
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1127.5	57.78	24.84	-50.03	32.59	74.00	41.41	Vertical
2	1578.7083	56.32	25.35	-49.91	31.76	74.00	42.24	Vertical
3	2744.625	75.12	27.64	-48.86	53.90	74.00	20.10	Vertical
4	4131.5417	55.21	29.51	-48.29	36.43	74.00	37.57	Vertical
5	11153.25	47.72	39.48	-40.35	46.85	74.00	27.15	Vertical
6	17830	44.03	43.78	-35.92	51.89	74.00	22.11	Vertical
7	2745.3333	65.01	27.64	-48.85	43.80	54.00	10.20	Vertical

11ah_2M_TX_CH_High_Horizontal



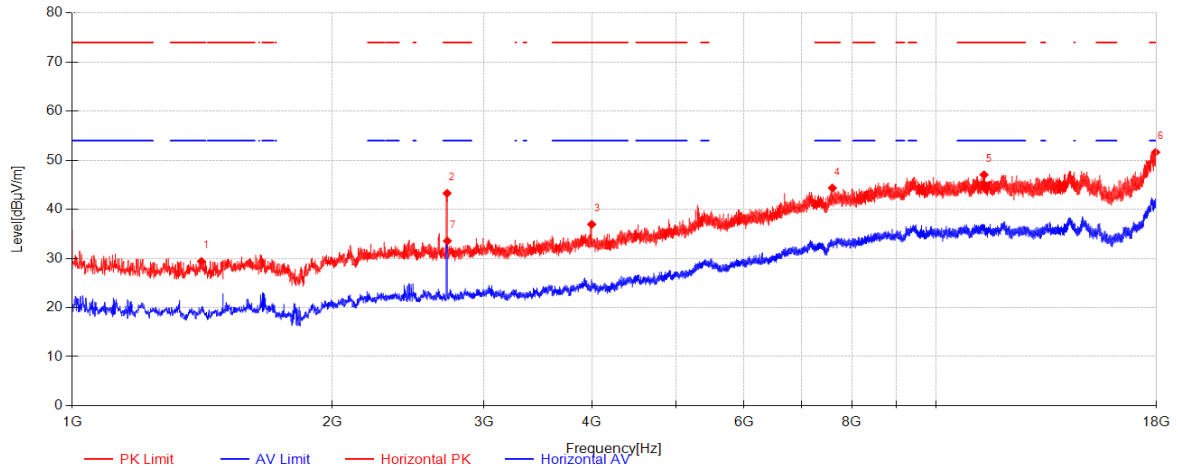
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1333.625	54.75	24.33	-50.09	28.99	74.00	45.01	Horizontal
2	2774.375	67.07	27.69	-48.76	46.00	74.00	28.00	Horizontal
3	4055.0417	54.10	29.39	-48.30	35.19	74.00	38.81	Horizontal
4	8222.1667	52.24	36.54	-44.35	44.43	74.00	29.57	Horizontal
5	11581.0833	46.93	39.44	-39.75	46.62	74.00	27.38	Horizontal
6	17936.25	44.47	44.42	-36.79	52.09	74.00	21.91	Horizontal
7	2775.7917	57.46	27.70	-48.76	36.40	54.00	17.60	Horizontal

11ah_2M_TX_CH_High_Vertical



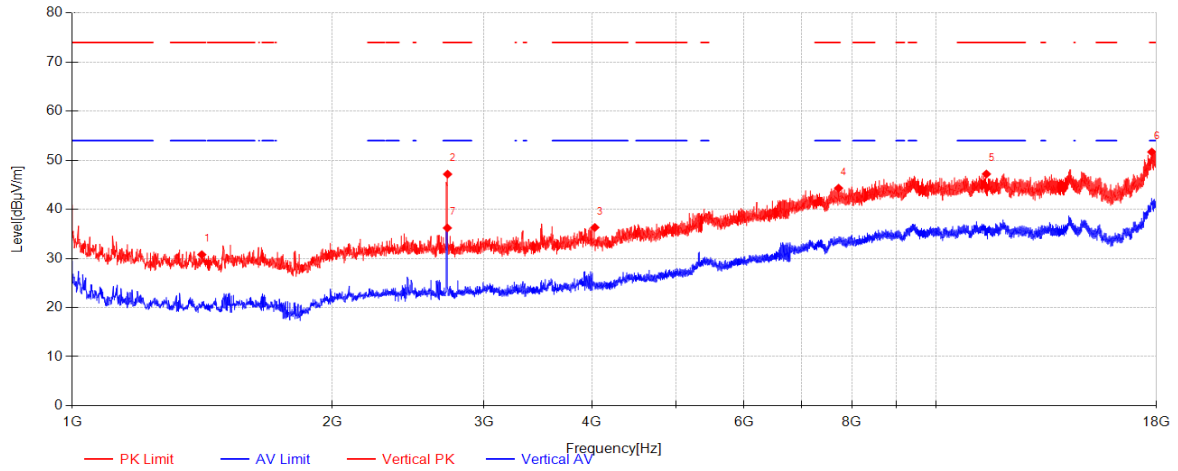
Data List								
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1	1195.5	57.48	24.80	-50.22	32.06	74.00	41.94	Vertical
2	1563.125	56.04	25.24	-49.89	31.39	74.00	42.61	Vertical
3	2773.6667	71.30	27.69	-48.76	50.23	74.00	23.77	Vertical
4	4035.9167	54.60	29.36	-48.32	35.64	74.00	38.36	Vertical
5	8169.75	52.89	36.49	-44.40	44.97	74.00	29.03	Vertical
6	17810.1667	43.90	43.66	-35.73	51.83	74.00	22.17	Vertical
7	2775.0833	61.27	27.70	-48.76	40.21	54.00	13.79	Vertical

11ah_4M_TX_CH_Low_Horizontal



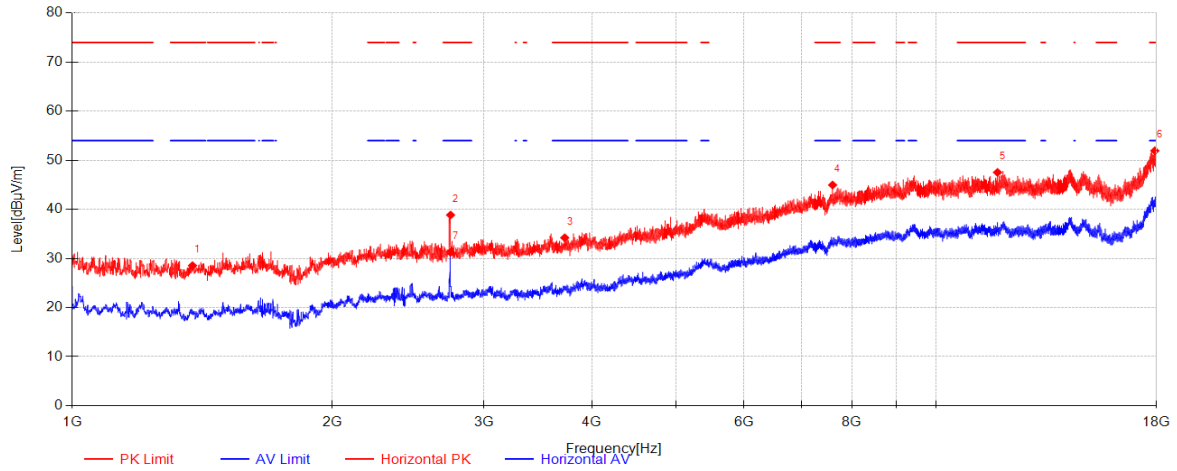
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1411.5417	55.20	24.18	-49.99	29.39	74.00	44.61	Horizontal
2	2717.7083	64.62	27.59	-48.94	43.27	74.00	30.73	Horizontal
3	3996.25	56.00	29.29	-48.35	36.94	74.00	37.06	Horizontal
4	7593.875	52.74	36.38	-44.77	44.35	74.00	29.65	Horizontal
5	11378.5	47.88	39.46	-40.30	47.04	74.00	26.96	Horizontal
6	17985.8333	44.03	44.72	-37.10	51.64	74.00	22.36	Horizontal
7	2719.8333	54.89	27.60	-48.94	33.55	54.00	20.45	Horizontal

11ah_4M_TX_CH_Low_Vertical



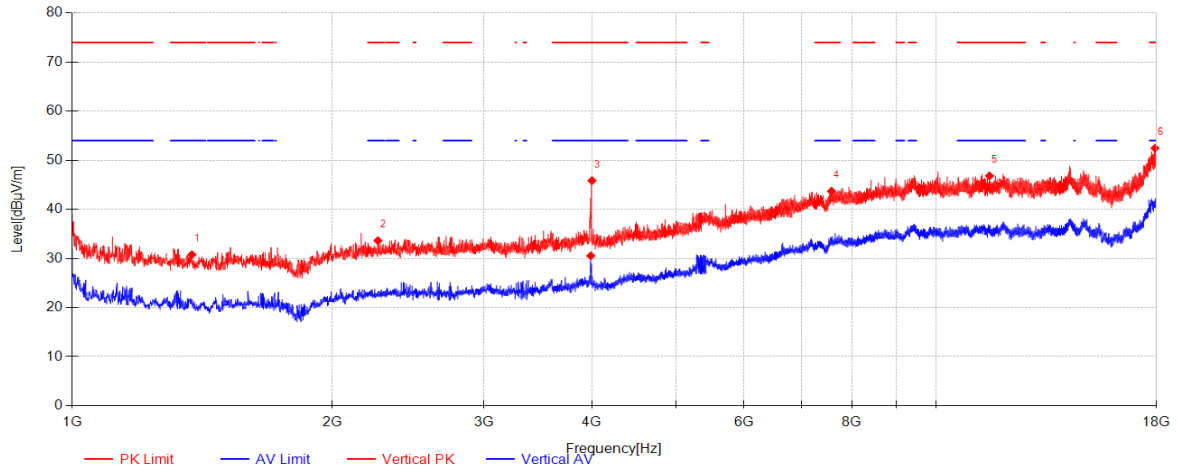
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1412.9583	56.57	24.19	-49.99	30.77	74.00	43.23	Vertical
2	2721.25	68.49	27.60	-48.93	47.16	74.00	26.84	Vertical
3	4030.25	55.27	29.35	-48.32	36.30	74.00	37.70	Vertical
4	7719.9583	53.19	36.36	-45.24	44.31	74.00	29.69	Vertical
5	11451.4583	47.79	39.45	-40.04	47.20	74.00	26.80	Vertical
6	17798.8333	43.74	43.59	-35.65	51.68	74.00	22.32	Vertical
7	2719.8333	57.54	27.60	-48.94	36.20	54.00	17.80	Vertical

11ah_4M_TX_CH_Mid_Horizontal



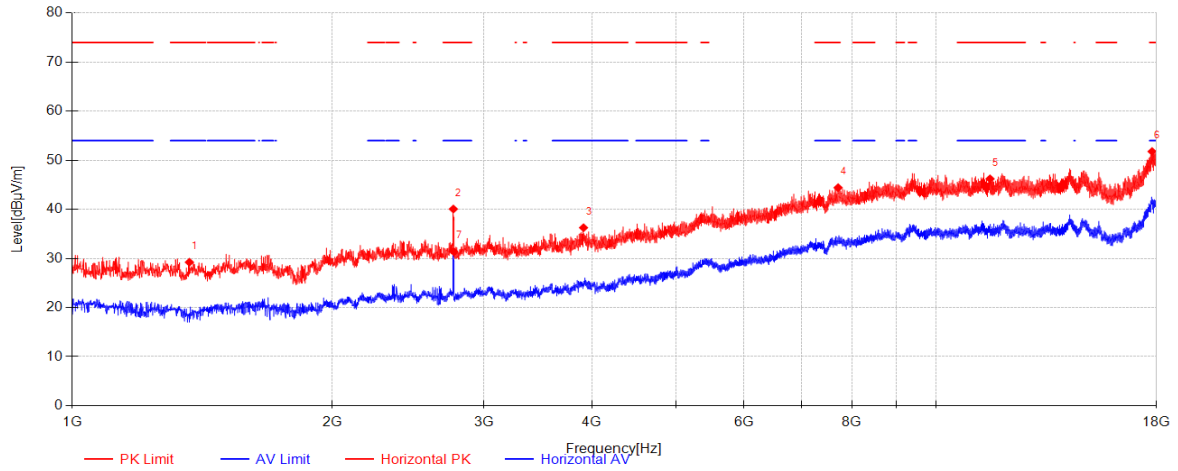
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1378.25	54.39	24.18	-50.04	28.53	74.00	45.47	Horizontal
2	2743.2083	60.06	27.64	-48.86	38.84	74.00	35.16	Horizontal
3	3719.2917	54.00	28.85	-48.64	34.21	74.00	39.79	Horizontal
4	7598.8333	53.26	36.38	-44.69	44.95	74.00	29.05	Horizontal
5	11795.7083	48.03	39.42	-39.93	47.52	74.00	26.48	Horizontal
6	17944.75	44.31	44.47	-36.85	51.93	74.00	22.07	Horizontal
7	2742.5	52.46	27.64	-48.86	31.23	54.00	22.77	Horizontal

11ah_4M_TX_CH_Mid_Vertical



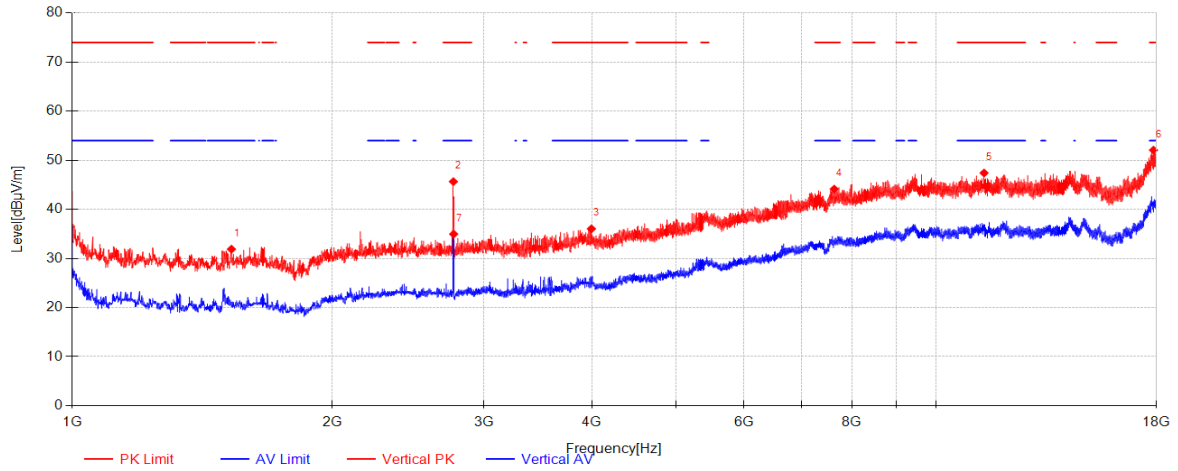
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1376.125	56.62	24.18	-50.04	30.76	74.00	43.24	Vertical
2	2260.125	56.13	26.77	-49.27	33.62	74.00	40.38	Vertical
3	3999.7917	64.90	29.30	-48.35	45.85	74.00	28.15	Vertical
4	7576.1667	52.37	36.38	-45.06	43.70	74.00	30.30	Vertical
5	11546.375	47.18	39.45	-39.80	46.82	74.00	27.18	Vertical
6	17951.8333	44.84	44.51	-36.89	52.46	74.00	21.54	Vertical
7	3987.0417	49.62	29.28	-48.36	30.54	54.00	23.46	Vertical

11ah_4M_TX_CH_High_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1366.9167	55.05	24.22	-50.05	29.22	74.00	44.78	Horizontal
2	2763.75	61.18	27.67	-48.80	40.06	74.00	33.94	Horizontal
3	3910.5417	55.52	29.16	-48.42	36.26	74.00	37.74	Horizontal
4	7710.75	53.31	36.36	-45.26	44.41	74.00	29.59	Horizontal
5	11562.6667	46.54	39.44	-39.78	46.21	74.00	27.79	Horizontal
6	17812.2917	43.86	43.67	-35.75	51.78	74.00	22.22	Horizontal
7	2766.5833	52.50	27.68	-48.79	31.39	54.00	22.61	Horizontal

11ah_4M_TX_CH_High_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1529.125	56.74	25.00	-49.86	31.88	74.00	42.12	Vertical
2	2763.75	66.77	27.67	-48.80	45.65	74.00	28.35	Vertical
3	3993.4167	55.10	29.29	-48.36	36.03	74.00	37.97	Vertical
4	7631.4167	52.62	36.37	-44.86	44.13	74.00	29.87	Vertical
5	11380.625	48.24	39.46	-40.30	47.41	74.00	26.59	Vertical
6	17879.5833	44.37	44.08	-36.38	52.07	74.00	21.93	Vertical
7	2765.875	56.07	27.68	-48.79	34.96	54.00	19.04	Vertical



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8 Test Setup Photo

Refer to Appendix C.3 - Test Setup Photo for SUCR2608000840TL

9 EUT Constructional Details (EUT Photos)

Refer to Appendix C.1_External Photos for SUCR2608000840TL and Appendix C.2_Internal Photos for SUCR2608000840TL

- End of the Report -