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TEST REPORT

FCC ID: 2AIZN-X6720B

Product: Mobile Phone

Model No.: X6720B

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Issued Date: 12 August 2024

Issued for:

INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET
FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

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Report No.: WSCT-ANAB-R&E240700032A-WI-F12

1 Test Certification

Product: Mobile Phone
Model No.: X6720B
Additional Model: Infinix
Applicant: **INFINIX MOBILITY LIMITED**
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN
MEI STREET FOTAN NT HONGKONG
Manufacturer: **INFINIX MOBILITY LIMITED**
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN
MEI STREET FOTAN NT HONGKONG
Date of receipt: 16 June 2024
Date of Test: 17 June 2024 to 09 August 2024
Applicable Standards: FCC CFR Title 47 FCC Part 15 Subpart E

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Wang Xiang

(Wang Xiang)

Checked By:

Qin Shuiquan

(Qin Shuiquan)

Approved By:

Liu Fuxin

(Liu Fuxin)

Date:

12 August 2024



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2 EUT Description

Product:	Mobile Phone
Model No.:	X6720B
Trade Mark:	Infinix
Software version:	X6720-H353RS-U-OP-240531V276
Hardware version:	V1.2
Operation Frequency:	Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz
Modulation type:	IEEE 802.11a/n/ac: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM)
Antenna Type:	FIPA Antenna
Antenna Gain	-3.73dBi
Operating Voltage:	Adapter: U180XSA Input: 100-240V~50/60Hz 0.6A Output: 5.0V~2.4A or 7.5V~2.4A 18.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-5ABX Rated Voltage: 3.87V Rated Capacity: 4900mAh/18.97Wh Typical Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V
Remark:	N/A.

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the customer.



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3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated($<1\text{GHz}$)	$\pm 4.7\text{dB}$
5	All emissions, radiated($>1\text{GHz}$)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$
8	Receiver Spurious Emissions	$\pm 2.5\%$
9	Transmitter Unwanted Emissions in the Spurious Domain	$\pm 2.5\%$
10	Transmitter Unwanted Emission in the out-of Band	$\pm 1.3\%$
11	Occupied Channel Bandwidth	$\pm 2.4\%$



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3.2 TEST ENVIRONMENT AND MODE

Operating Environment:

Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
-------------------	--

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Description
Mode 1	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80

Note:

- (1) The measurements are performed at the highest, lowest available channels.
- (2) The EUT use new battery.
- (3) Record the worst case of each test item in this report.



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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test program	*##3646633##*							
Mode	Test Frequency (MHz)							
	NCB: 20MHz							
802.11a	5180	5240	5260	5320	5500	5700	5745	5825
802.11n	5180	5240	5260	5320	5500	5700	5745	5825
802.11ac	5180	5240	5260	5320	5500	5700	5745	5825
	NCB: 40MHz							
802.11n	5190	5230	5270	5310	5510	5670	5755	5795
802.11ac	5190	5230	5270	5310	5510	5670	5755	5795
	NCB: 80MHz							
802.11ac	5210	5290	5530	5610	5775			



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CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Mobile Phone)

3.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	U180XSA	/	/
2	Earphone	/	N/A	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.
- (4) The adapter supply by the applicant.



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4 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 Subpart C&E			
Standard Section	Test Item	Judgment	Remark
2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
15.407(a)	Maximum Conducted Output Power	PASS	Complies
15.407(a)	Power Spectral Density	PASS	Complies
15.407(b)	Unwanted Emissions	PASS	Complies
15.207	AC Conducted Emission	PASS	Complies
15.407(g)	Frequency Stability	PASS	Complies
15.407(c)	Automatically Discontinue Transmission	PASS	Complies
15.203 & 15.407(a)	Antenna Requirement	PASS	Complies
15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS	Complies

NOTE:

(1) "N/A" denotes test is not applicable in this test report.



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5 MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024
LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024
Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024
GPIO cable	Megalon	GPIO	N/A	11/05/2023	11/04/2024
Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024
Pre-Amplifier	CDSI	PAP-1G18-38	--	11/05/2023	11/04/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025
9*6*6 Anechoic	--	--	--	11/05/2023	11/04/2024
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	11/05/2023	11/04/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	11/05/2023	11/04/2024
Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024
Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024
Power sensor	Anritsu	MX248XD	--	11/05/2023	11/04/2024
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024



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6 Facilities and Accreditations

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoli'an Industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2 ACCREDITATIONS

CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951



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7 Test Results and Measurement Data

7.1 CONDUCTED EMISSION MEASUREMENT

POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



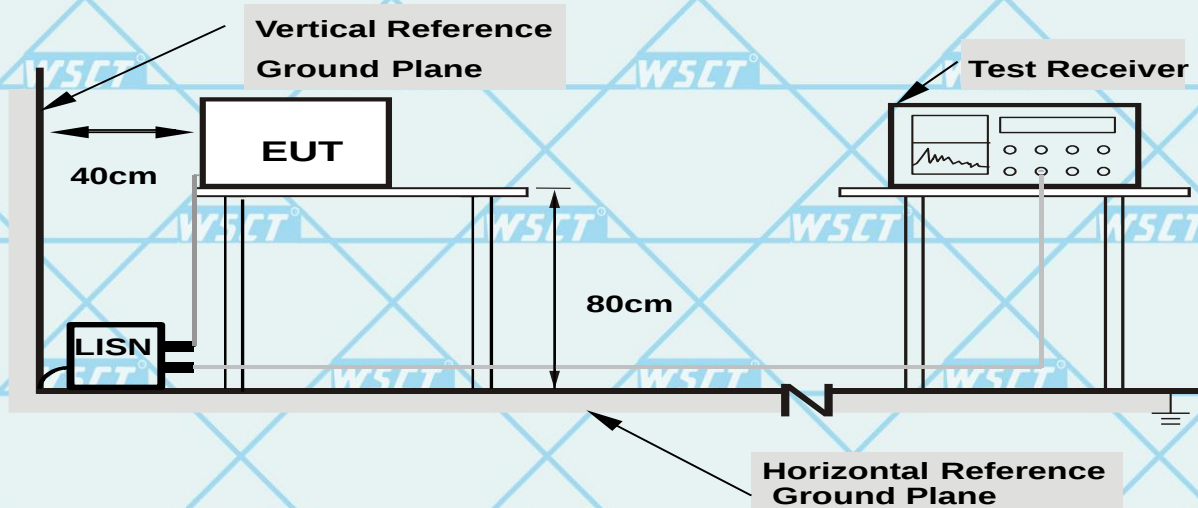
7.1.1 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.2 DEVIATION FROM TEST STANDARD

No deviation

TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

7.2.1 EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

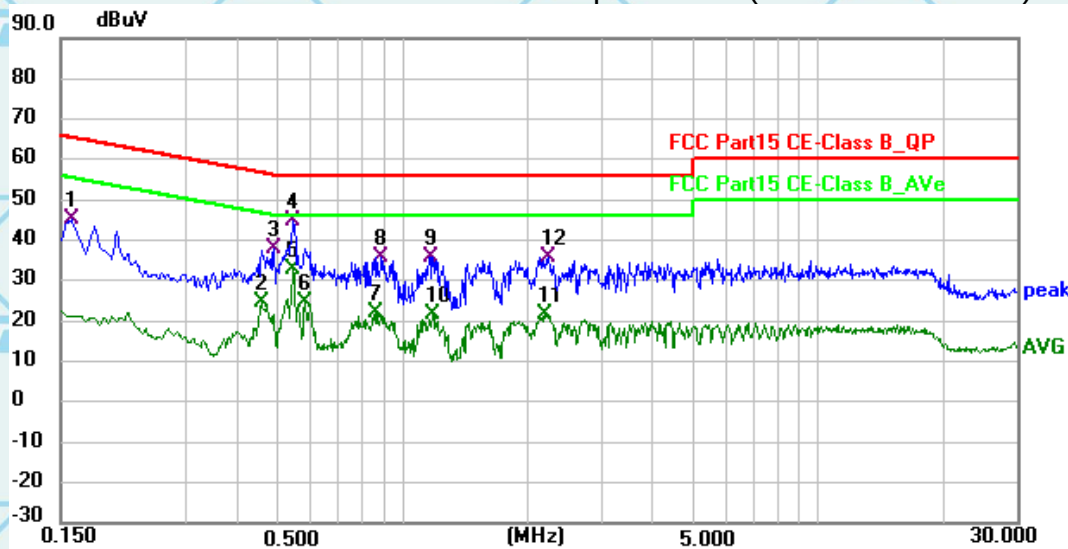


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7.2.2 TEST RESULTS

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-Worst

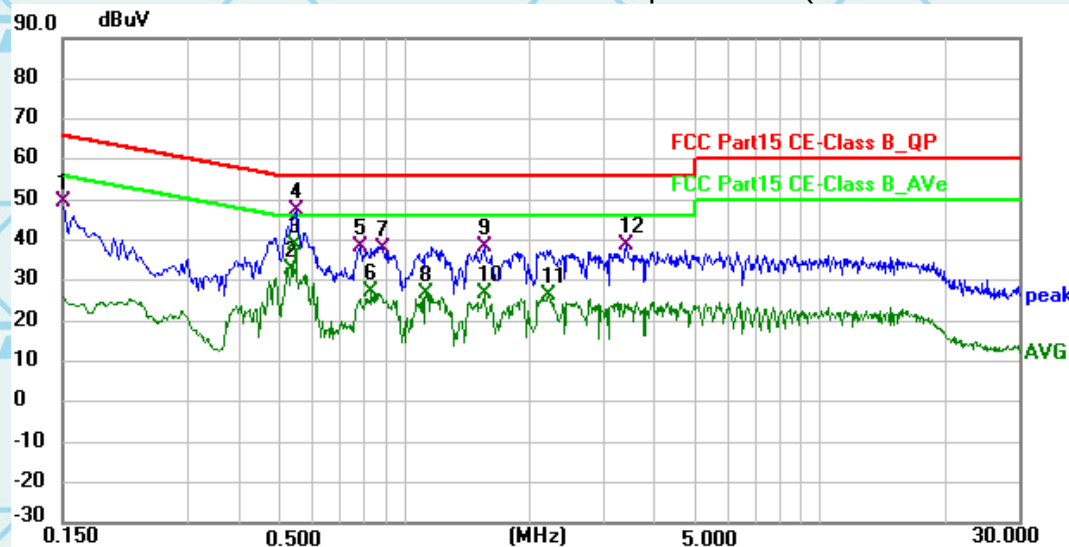


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1590	24.33	20.72	45.05	65.52	-20.47	QP
2	0.4560	4.07	20.54	24.61	46.77	-22.16	AVG
3	0.4875	17.61	20.52	38.13	56.21	-18.08	QP
4 *	0.5415	24.22	20.52	44.74	56.00	-11.26	QP
5	0.5415	12.25	20.52	32.77	46.00	-13.23	AVG
6	0.5820	3.93	20.52	24.45	46.00	-21.55	AVG
7	0.8655	1.47	20.61	22.08	46.00	-23.92	AVG
8	0.8880	15.13	20.62	35.75	56.00	-20.25	QP
9	1.1715	15.20	20.66	35.86	56.00	-20.14	QP
10	1.1805	1.14	20.66	21.80	46.00	-24.20	AVG
11	2.2065	1.18	20.61	21.79	46.00	-24.21	AVG
12	2.2470	15.03	20.61	35.64	56.00	-20.36	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	28.78	20.73	49.51	66.00	-16.49	QP
2	0.5325	12.35	20.51	32.86	46.00	-13.14	AVG
3 *	0.5415	18.33	20.52	38.85	46.00	-7.15	AVG
4	0.5460	26.76	20.52	47.28	56.00	-8.72	QP
5	0.7799	17.80	20.57	38.37	56.00	-17.63	QP
6	0.8340	6.56	20.60	27.16	46.00	-18.84	AVG
7	0.8835	17.22	20.62	37.84	56.00	-18.16	QP
8	1.1265	6.24	20.66	26.90	46.00	-19.10	AVG
9	1.5540	17.70	20.64	38.34	56.00	-17.66	QP
10	1.5540	6.31	20.64	26.95	46.00	-19.05	AVG
11	2.2290	5.75	20.61	26.36	46.00	-19.64	AVG
12	3.4170	18.21	20.59	38.80	56.00	-17.20	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) - Limits (dBuV)

Q.P. = Quasi-Peak AVG = average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



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7.3 RADIATED EMISSION MEASUREMENT

Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microrvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



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7.3.1 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

7.3.2 DEVIATION FROM TEST STANDARD

No deviation

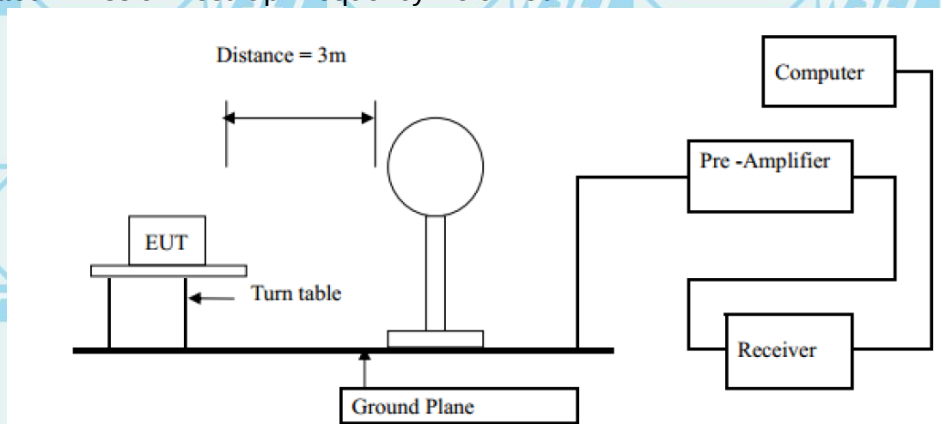


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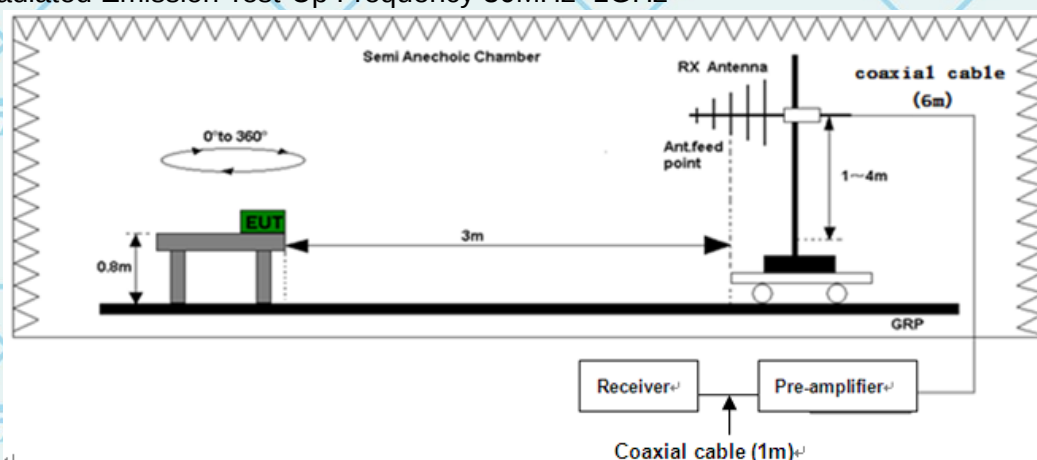
Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

7.3.3 TEST SETUP

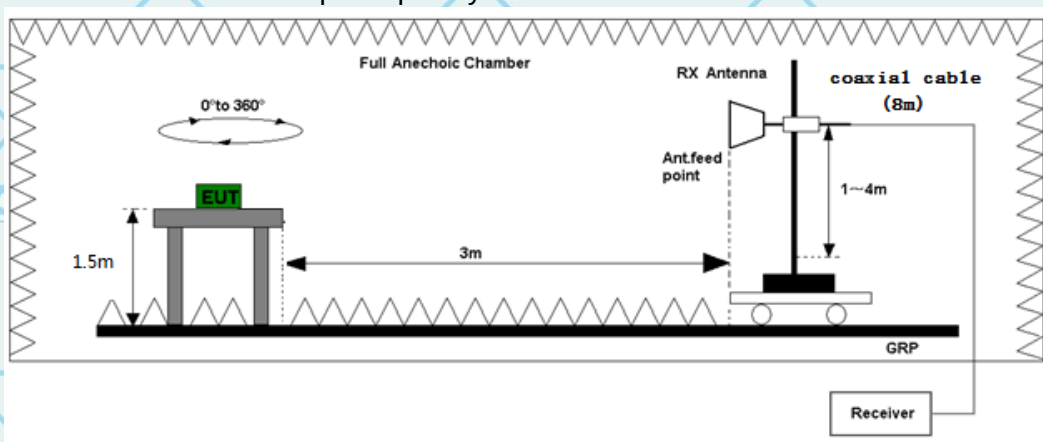
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





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7.3.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.3.5 RESULTS (BELOW 30 MHZ)

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.



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7.3.6 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

Please refer to following diagram for individual
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	56.8166	40.51	-19.95	20.56	40.00	-19.44	QP
2 *	83.5222	50.98	-23.94	27.04	40.00	-12.96	QP
3	151.1991	39.25	-19.48	19.77	43.50	-23.73	QP
4	175.4977	45.56	-21.58	23.98	43.50	-19.52	QP
5	348.9439	36.95	-19.05	17.90	46.00	-28.10	QP
6	686.8495	33.35	-12.58	20.77	46.00	-25.23	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

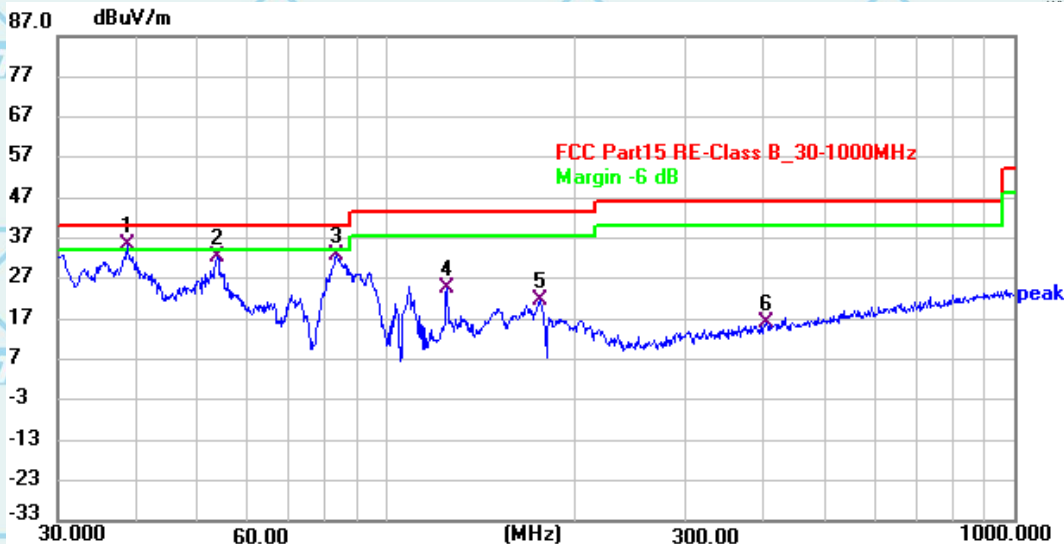


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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	38.8198	54.57	-19.18	35.39	40.00	-4.61	QP
2	53.9527	51.52	-19.23	32.29	40.00	-7.71	QP
3	83.5588	56.73	-23.93	32.80	40.00	-7.20	QP
4	125.0066	45.83	-20.98	24.85	43.50	-18.65	QP
5	176.1914	43.37	-21.80	21.57	43.50	-21.93	QP
6	403.7805	33.41	-17.46	15.95	46.00	-30.05	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) - Limits (dBμV)





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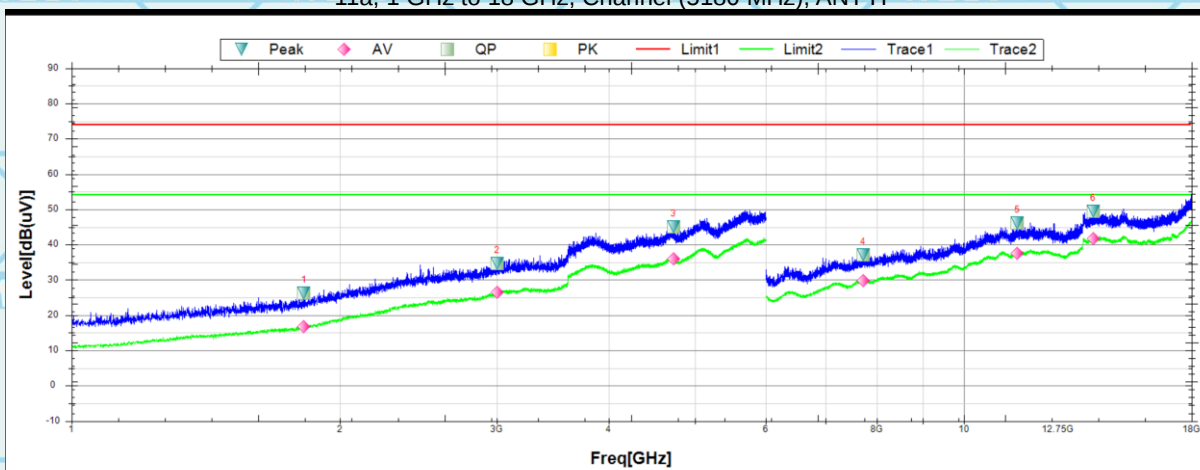
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7.3.7 TEST RESULTS (ABOVE 1GHZ)

Note: 1.The spurious above 18G is noise only, do not show on the report.

2. Report and only recorded the worst-case scenario 802.11a.

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H

**Susputed Data List**

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1822.5000	26.19	0.94	25.25	74	-47.81	221	Horizontal	PK	Pass
2	3000.6250	34.63	7.97	26.66	74	-39.37	-0.1	Horizontal	PK	Pass
3	4731.2500	44.95	14.83	30.12	74	-29.05	45.4	Horizontal	PK	Pass
4	7714.5000	36.99	36.57	0.42	74	-37.01	351.2	Horizontal	PK	Pass
5	11487.0000	46.04	39.06	6.98	74	-27.96	304.6	Horizontal	PK	Pass
6	13963.5000	49.4	41.41	7.99	74	-24.6	26	Horizontal	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1822.5000	16.66	0.94	15.72	54	-37.34	221	Horizontal	AV	Pass
2	3000.6250	26.49	7.97	18.52	54	-27.51	-0.1	Horizontal	AV	Pass
3	4731.2500	35.87	14.83	21.04	54	-18.13	45.4	Horizontal	AV	Pass
4	7714.5000	29.73	36.57	-6.84	54	-24.27	351.2	Horizontal	AV	Pass
5	11487.0000	37.42	39.06	-1.64	54	-16.58	304.6	Horizontal	AV	Pass
6	13963.5000	41.81	41.41	0.4	54	-12.19	26	Horizontal	AV	Pass

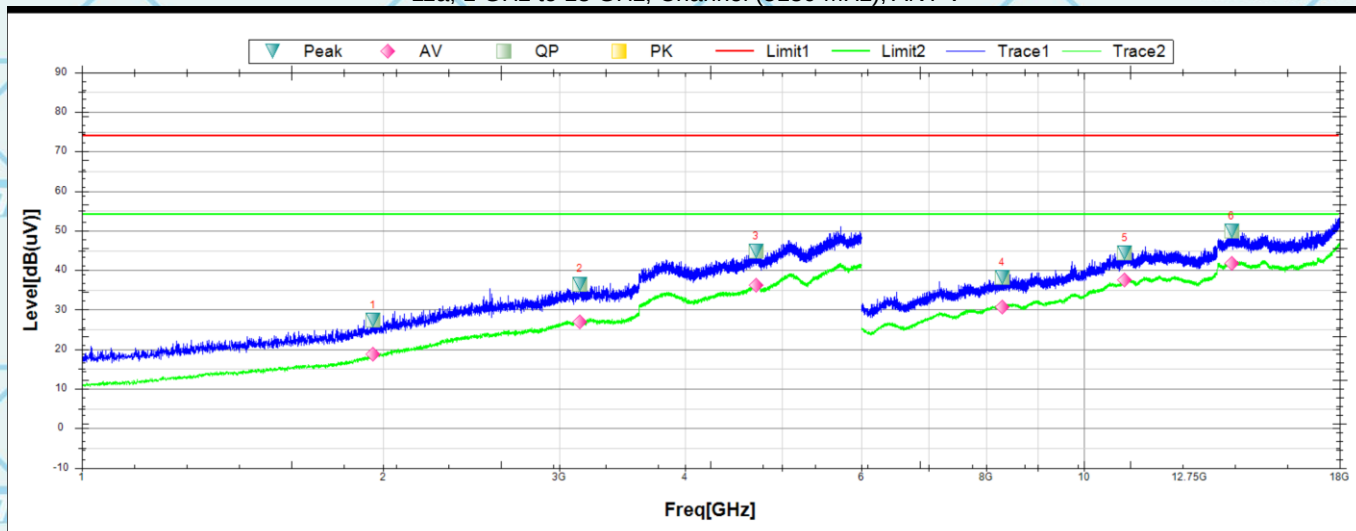


Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Certificate Number: AT-3951

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11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1953.1250	27.39	2.09	25.3	74	-46.61	115.1	Vertical	PK	Pass
2	3142.5000	36.5	8.01	28.49	74	-37.5	36.2	Vertical	PK	Pass
3	4710.0000	44.7	14.79	29.91	74	-29.3	326.7	Vertical	PK	Pass
4	8289.0000	38.1	37.12	0.98	74	-35.9	75	Vertical	PK	Pass
5	10995.0000	44.29	39.49	4.8	74	-29.71	89.4	Vertical	PK	Pass
6	14044.5000	49.79	41.44	8.35	74	-24.21	106.2	Vertical	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1953.1250	18.68	2.09	16.59	54	-35.32	115.1	Vertical	AV	Pass
2	3142.5000	26.9	8.01	18.89	54	-27.1	36.2	Vertical	AV	Pass
3	4710.0000	36.1	14.79	21.31	54	-17.9	326.7	Vertical	AV	Pass
4	8289.0000	30.71	37.12	-6.41	54	-23.29	75	Vertical	AV	Pass
5	10995.0000	37.42	39.49	-2.07	54	-16.58	89.4	Vertical	AV	Pass
6	14044.5000	41.62	41.44	0.18	54	-12.38	106.2	Vertical	AV	Pass

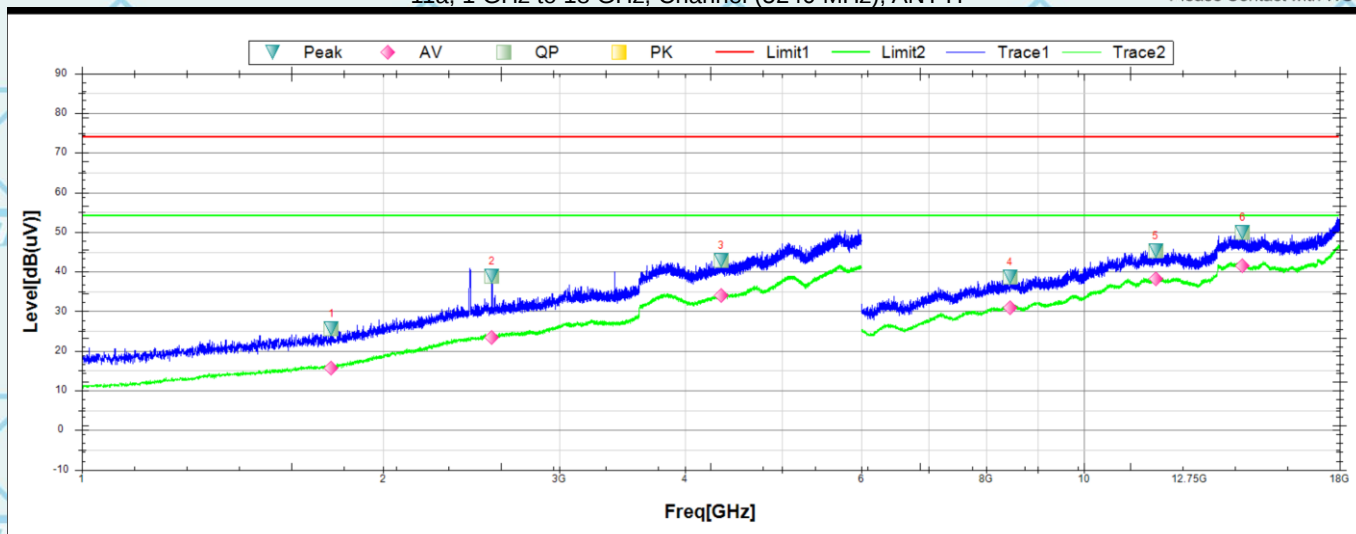


Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Certificate Number: AT-3951

For Question,
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11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1775.6250	25.49	0.64	24.85	74	-48.51	166.6	Horizontal	PK	Pass
2	2568.1250	38.75	5.87	32.88	74	-35.25	250.3	Horizontal	PK	Pass
3	4349.3750	42.83	13.34	29.49	74	-31.17	0.5	Horizontal	PK	Pass
4	8442.0000	38.52	37.18	1.34	74	-35.48	15.3	Horizontal	PK	Pass
5	11799.0000	45.32	38.78	6.54	74	-28.68	13	Horizontal	PK	Pass
6	14412.0000	49.85	40.96	8.89	74	-24.15	304.6	Horizontal	PK	Pass

Final Data List

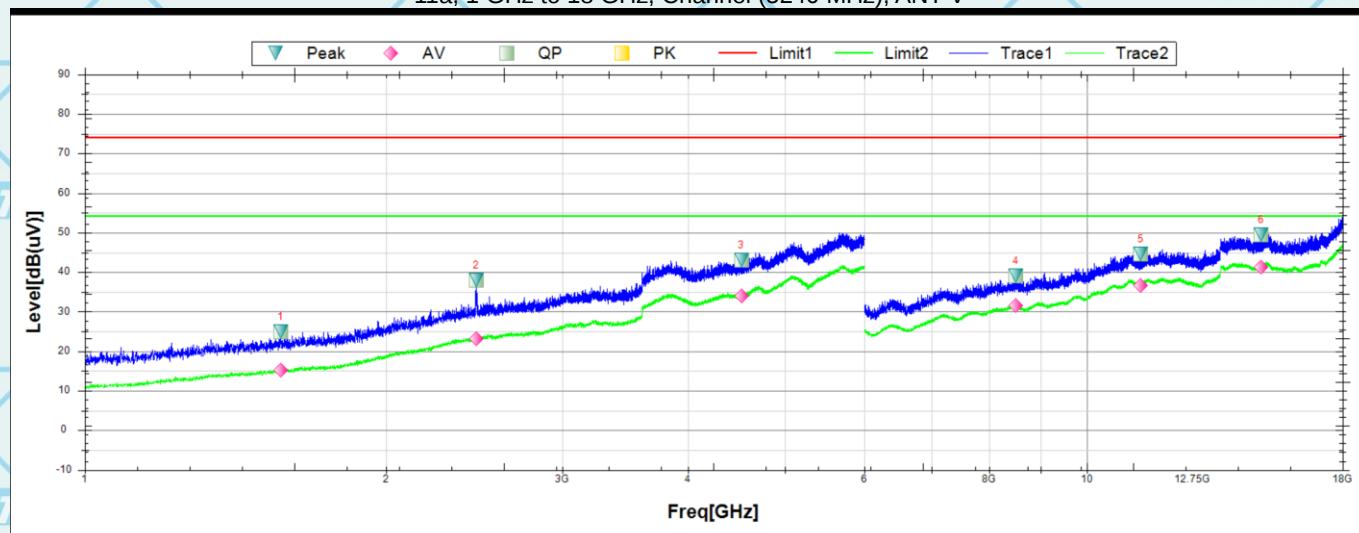
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1775.6250	15.72	0.64	15.08	54	-38.28	166.6	Horizontal	AV	Pass
2	2568.1250	23.41	5.87	17.54	54	-30.59	250.3	Horizontal	AV	Pass
3	4349.3750	34	13.34	20.66	54	-20	0.5	Horizontal	AV	Pass
4	8442.0000	30.97	37.18	-6.21	54	-23.03	15.3	Horizontal	AV	Pass
5	11799.0000	38.13	38.78	-0.65	54	-15.87	13	Horizontal	AV	Pass
6	14412.0000	41.46	40.96	0.5	54	-12.54	304.6	Horizontal	AV	Pass



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11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT V



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1568.7500	24.87	-0.06	24.93	74	-49.13	110.5	Vertical	PK	Pass
2	2460.0000	38.03	5.42	32.61	74	-35.97	185.8	Vertical	PK	Pass
3	4522.5000	42.95	13.74	29.21	74	-31.05	316.1	Vertical	PK	Pass
4	8500.5000	38.98	37.2	1.78	74	-35.02	357.8	Vertical	PK	Pass
5	11328.0000	44.57	39.2	5.37	74	-29.43	-0.1	Vertical	PK	Pass
6	14935.5000	49.42	40.28	9.14	74	-24.58	359.6	Vertical	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1568.7500	15.18	-0.06	15.24	54	-38.82	110.5	Vertical	AV	Pass
2	2460.0000	23.25	5.42	17.83	54	-30.75	185.8	Vertical	AV	Pass
3	4522.5000	33.94	13.74	20.2	54	-20.06	316.1	Vertical	AV	Pass
4	8500.5000	31.5	37.2	-5.7	54	-22.5	357.8	Vertical	AV	Pass
5	11328.0000	36.59	39.2	-2.61	54	-17.41	-0.1	Vertical	AV	Pass
6	14935.5000	41.25	40.28	0.97	54	-12.75	359.6	Vertical	AV	Pass

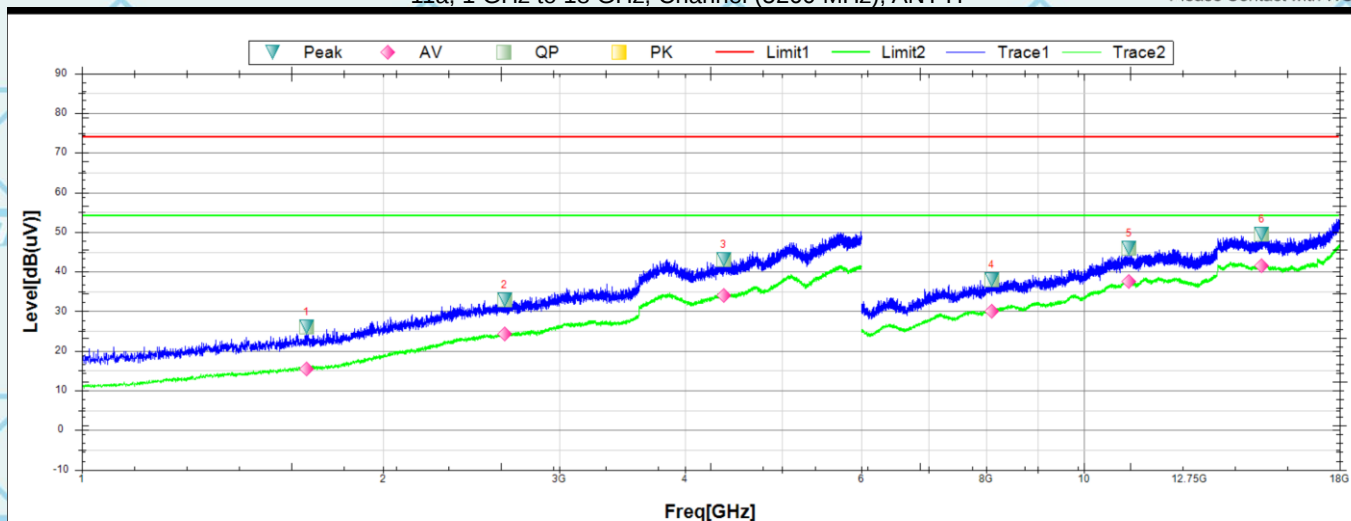


Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Certificate Number: AT-3951

For Question,
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11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1676.2500	25.98	0.23	25.75	74	-48.02	360	Horizontal	PK	Pass
2	2642.5000	32.85	6.1	26.75	74	-41.15	357.4	Horizontal	PK	Pass
3	4372.5000	43.04	13.41	29.63	74	-30.96	50.6	Horizontal	PK	Pass
4	8094.0000	37.86	37.04	0.82	74	-36.14	231.6	Horizontal	PK	Pass
5	11103.0000	45.89	39.41	6.48	74	-28.11	52.2	Horizontal	PK	Pass
6	15058.5000	49.42	40.02	9.4	74	-24.58	23.7	Horizontal	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1676.2500	15.47	0.23	15.24	54	-38.53	360	Horizontal	AV	Pass
2	2642.5000	24.25	6.1	18.15	54	-29.75	357.4	Horizontal	AV	Pass
3	4372.5000	33.94	13.41	20.53	54	-20.06	50.6	Horizontal	AV	Pass
4	8094.0000	30.08	37.04	-6.96	54	-23.92	231.6	Horizontal	AV	Pass
5	11103.0000	37.4	39.41	-2.01	54	-16.6	52.2	Horizontal	AV	Pass
6	15058.5000	41.47	40.02	1.45	54	-12.53	23.7	Horizontal	AV	Pass



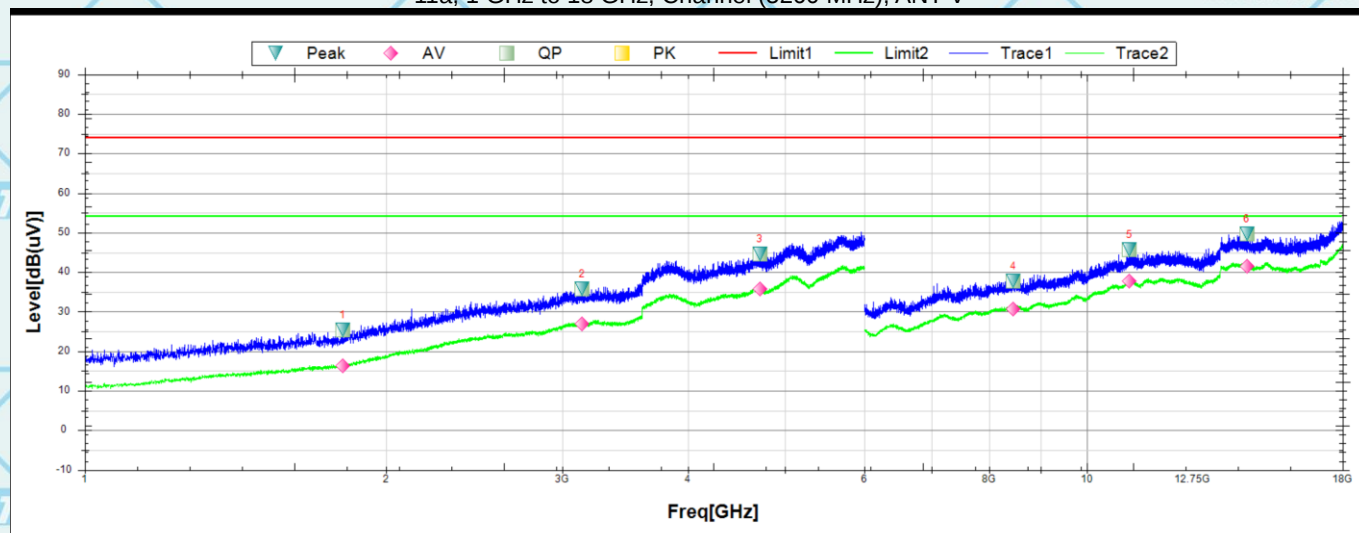
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Certificate Number: AT-3951

11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1809.3750	25.35	0.85	24.5	74	-48.65	353	Vertical	PK	Pass
2	3138.1250	35.77	7.99	27.78	74	-38.23	287.4	Vertical	PK	Pass
3	4719.3750	44.62	14.81	29.81	74	-29.38	24.5	Vertical	PK	Pass
4	8452.5000	37.79	37.18	0.61	74	-36.21	0	Vertical	PK	Pass
5	11037.0000	45.6	39.47	6.13	74	-28.4	4.9	Vertical	PK	Pass
6	14443.5000	49.6	40.92	8.68	74	-24.4	319	Vertical	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1809.3750	16.27	0.85	15.42	54	-37.73	353	Vertical	AV	Pass
2	3138.1250	27.01	7.99	19.02	54	-26.99	287.4	Vertical	AV	Pass
3	4719.3750	35.77	14.81	20.96	54	-18.23	24.5	Vertical	AV	Pass
4	8452.5000	30.74	37.18	-6.44	54	-23.26	0	Vertical	AV	Pass
5	11037.0000	37.63	39.47	-1.84	54	-16.37	4.9	Vertical	AV	Pass
6	14443.5000	41.38	40.92	0.46	54	-12.62	319	Vertical	AV	Pass

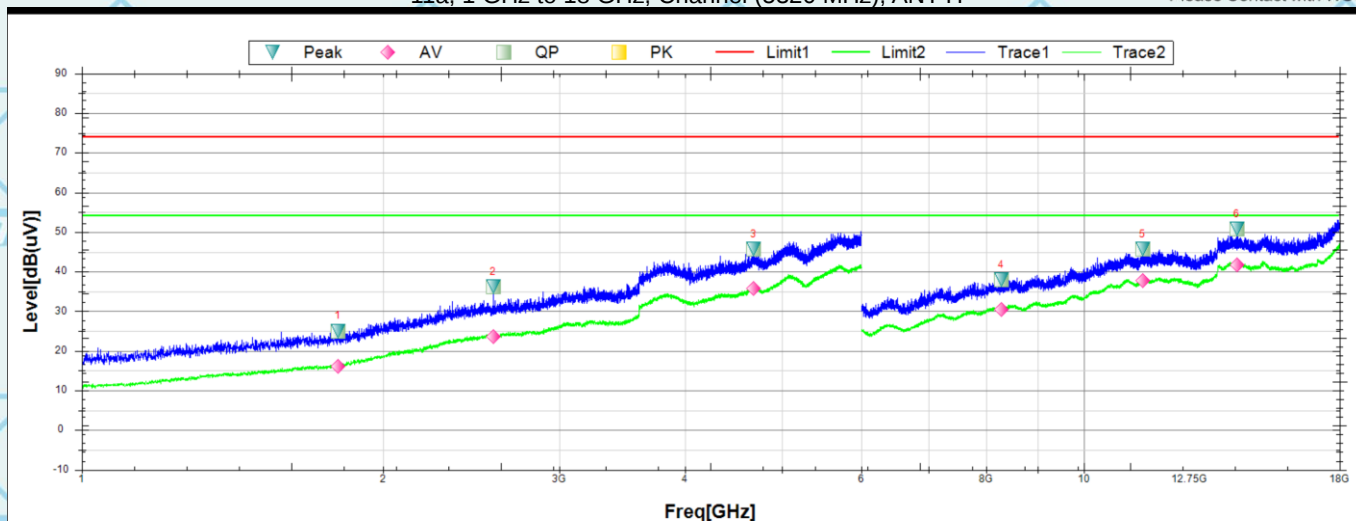


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For Question,
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11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1801.2500	25.01	0.78	24.23	74	-48.99	340	Horizontal	PK	Pass
2	2574.3750	36.12	5.87	30.25	74	-37.88	65	Horizontal	PK	Pass
3	4686.2500	45.67	14.75	30.92	74	-28.33	246.8	Horizontal	PK	Pass
4	8274.0000	37.95	37.11	0.84	74	-36.05	310.5	Horizontal	PK	Pass
5	11448.0000	45.63	39.1	6.53	74	-28.37	359.5	Horizontal	PK	Pass
6	14215.5000	50.79	41.22	9.57	74	-23.21	-0.1	Horizontal	PK	Pass

Final Data List

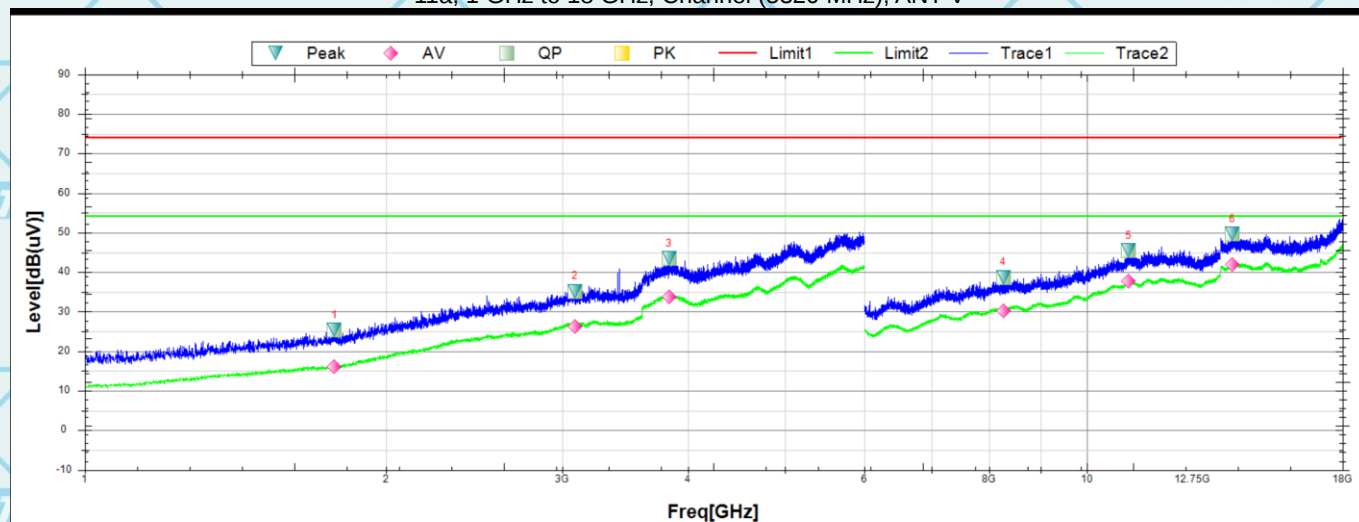
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1801.2500	16.03	0.78	15.25	54	-37.97	340	Horizontal	AV	Pass
2	2574.3750	23.67	5.87	17.8	54	-30.33	65	Horizontal	AV	Pass
3	4686.2500	35.81	14.75	21.06	54	-18.19	246.8	Horizontal	AV	Pass
4	8274.0000	30.34	37.11	-6.77	54	-23.66	310.5	Horizontal	AV	Pass
5	11448.0000	37.73	39.1	-1.37	54	-16.27	359.5	Horizontal	AV	Pass
6	14215.5000	41.77	41.22	0.55	54	-12.23	-0.1	Horizontal	AV	Pass



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Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT V



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1775.6250	25.35	0.64	24.71	74	-48.65	81.8	Vertical	PK	Pass
2	3086.8750	35.17	7.9	27.27	74	-38.83	1.9	Vertical	PK	Pass
3	3830.6250	43.38	10.87	32.51	74	-30.62	20.1	Vertical	PK	Pass
4	8254.5000	38.72	37.1	1.62	74	-35.28	58.2	Vertical	PK	Pass
5	11016.0000	45.36	39.49	5.87	74	-28.64	185	Vertical	PK	Pass
6	13980.0000	49.55	41.45	8.1	74	-24.45	213.6	Vertical	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1775.6250	16.01	0.64	15.37	54	-37.99	81.8	Vertical	AV	Pass
2	3086.8750	26.17	7.9	18.27	54	-27.83	1.9	Vertical	AV	Pass
3	3830.6250	33.86	10.87	22.99	54	-20.14	20.1	Vertical	AV	Pass
4	8254.5000	30.31	37.1	-6.79	54	-23.69	58.2	Vertical	AV	Pass
5	11016.0000	37.83	39.49	-1.66	54	-16.17	185	Vertical	AV	Pass
6	13980.0000	41.9	41.45	0.45	54	-12.1	213.6	Vertical	AV	Pass

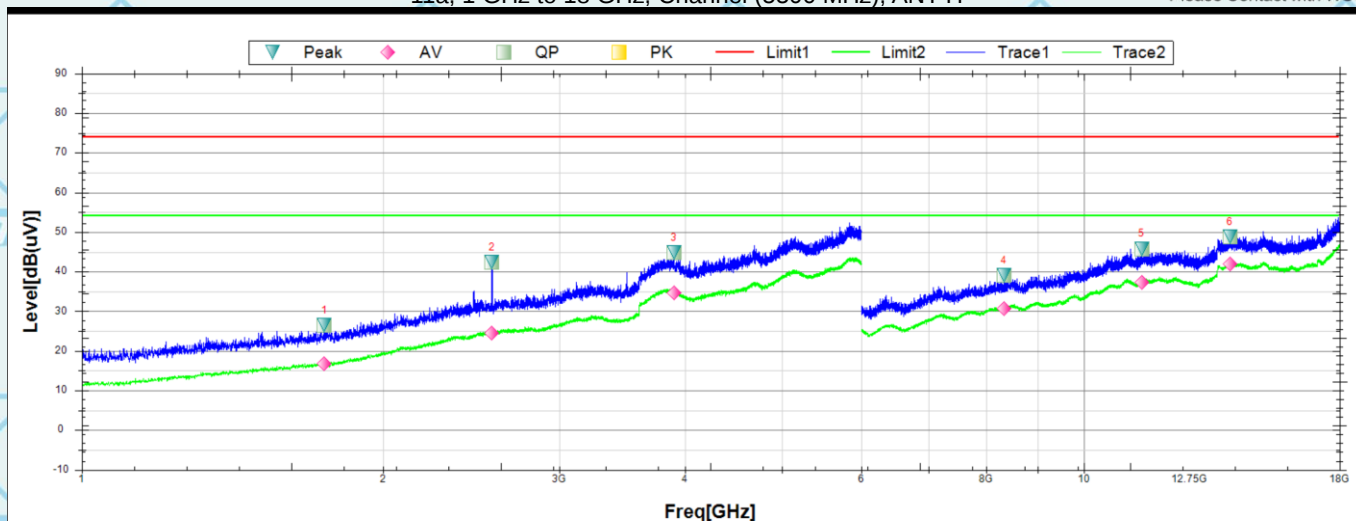


Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Certificate Number: AT-3951

For Question,
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11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT H



Suspected Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1747.5000	26.44	0.5	25.94	74	-47.56	20.1	Horizontal	PK	Pass
2	2568.1250	42.45	5.87	36.58	74	-31.55	360.1	Horizontal	PK	Pass
3	3901.8750	44.73	11.25	33.48	74	-29.27	6.6	Horizontal	PK	Pass
4	8326.5000	38.95	37.13	1.82	74	-35.05	359.1	Horizontal	PK	Pass
5	11422.5000	45.78	39.12	6.66	74	-28.22	330.8	Horizontal	PK	Pass
6	13990.5000	48.86	41.48	7.38	74	-25.14	61.8	Horizontal	PK	Pass

Final Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1747.5000	16.76	0.5	16.26	54	-37.24	20.1	Horizontal	AV	Pass
2	2568.1250	24.37	5.87	18.5	54	-29.63	360.1	Horizontal	AV	Pass
3	3901.8750	34.7	11.25	23.45	54	-19.3	6.6	Horizontal	AV	Pass
4	8326.5000	30.62	37.13	-6.51	54	-23.38	359.1	Horizontal	AV	Pass
5	11422.5000	37.29	39.12	-1.83	54	-16.71	330.8	Horizontal	AV	Pass
6	13990.5000	41.9	41.48	0.42	54	-12.1	61.8	Horizontal	AV	Pass