TEST REPORT

FCC ID: 2ADYY-T14RA-1

Product: Laptop Computer

Model No.: T14RA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi2

Issued Date: 14 October 2024

Issued for:

TECNO MOBILE 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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1 Test Certification

Product:	Laptop Computer
Model No.:	T14RA
Trade Mark:	TECNO
Applicant:	**TECNO MOBILE LIMITED**
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	**TECNO MOBILE LIMITED**
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Date of Test:	29 August 2024 to 11 October 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)**

Approved By: Li Huaibi **(Li Huaibi)**

Date: 14 October 2024

2 EUT Description

Product:	Laptop Computer
Model No.:	T14RA
Trade Mark:	TECNO
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/ax: OFDM/OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Antenna Type:	Integral Antenna
Antenna Gain	MAIN:2.94dBi ,AUX:2.75 dBi
EUT Power Rating	Adapter: FC498U INPUT: 100-240V~50/60Hz 1.5A MAX OUTPUT: PD:5V⎓3A 9V⎓3A 12V⎓3A 20V⎓3.25A PPS:3.3—11V⎓5A MAX Rechargeable Li-ion Polymer Battery: 528282-3S1P Nominal Voltage: 11.61V Rated Capacity:6460mAh/75Wh Typical Capacity: 6550mAh/76.04Wh Limited Charge Voltage: 13.35V
Remark:	N/A.

Configuration differences

Configuration/ Processor	TDP
T14RA (i5-1335U)	15W
T14RA (i7-1355U)	15W
T14RA (i5-13420H)	30W
T14RA (i7-13620H)	30W
T14RA (i7-13700H)	30W
Note: These models of TDP are different, and the T14RA (i7-13620H) is the main test model reported	

3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended 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	±3.2dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1GHz)	±4.7dB
5	All emissions, radiated(>1GHz)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2%

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
Mode 7	802.11ax20
Mode 8	802.11ax40
Mode 9	802.11ax80
Mode 10	802.11ax160

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.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test program	DRTU								
Mode	Test Frequency (MHz)								
	NCB: 20MHz								
802.11a	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
802.11n	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
802.11ac	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
802.11ax	5180 MHz	5240 MHz	5260 MHz	5320 MHz	5500 MHz	5700 MHz	5745 MHz	5825 MHz	
NCB: 40MHz									
802.11n	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz	
802.11ac	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz	
802.11ax	5190 MHz	5230 MHz	5270 MHz	5310 MHz	5510 MHz	5670 MHz	5755 MHz	5795 MHz	
NCB: 80MHz									
802.11ac	5210 MHz	5290 MHz	5530 MHz	5610 MHz	5775 MHz				
802.11ax	5210 MHz	5290 MHz	5530 MHz	5610 MHz	5775 MHz				
NCB: 160MHz									
802.11ax	5250 MHz	5570 MHz							

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

3.4 CONFIGURATION OF SYSTEM UNDER TEST

(EUT: Laptop Computer)

3.5 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	TECNO	FC498U	/	/
2	Router	ASUS	GT-AXE11000	M6LAJF201230	

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.

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.

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
GPIB cable	Megalon	GPIB	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	11/05/2023	11/04/2024
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

6 Facilities and Accreditations

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

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

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

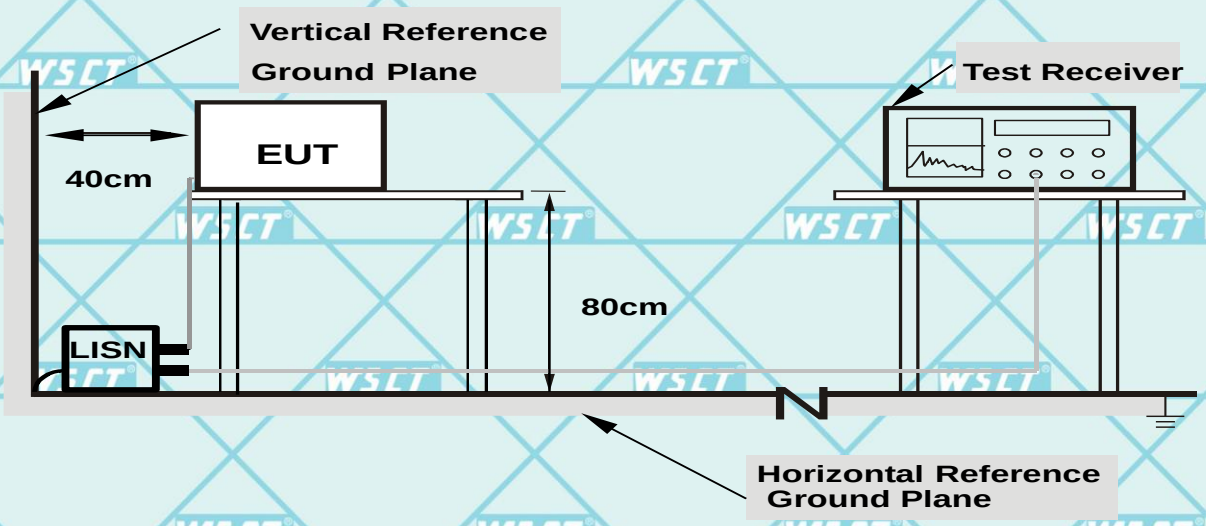
7.1.1 TEST PROCEDURE

a. 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.
b. 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.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.2 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

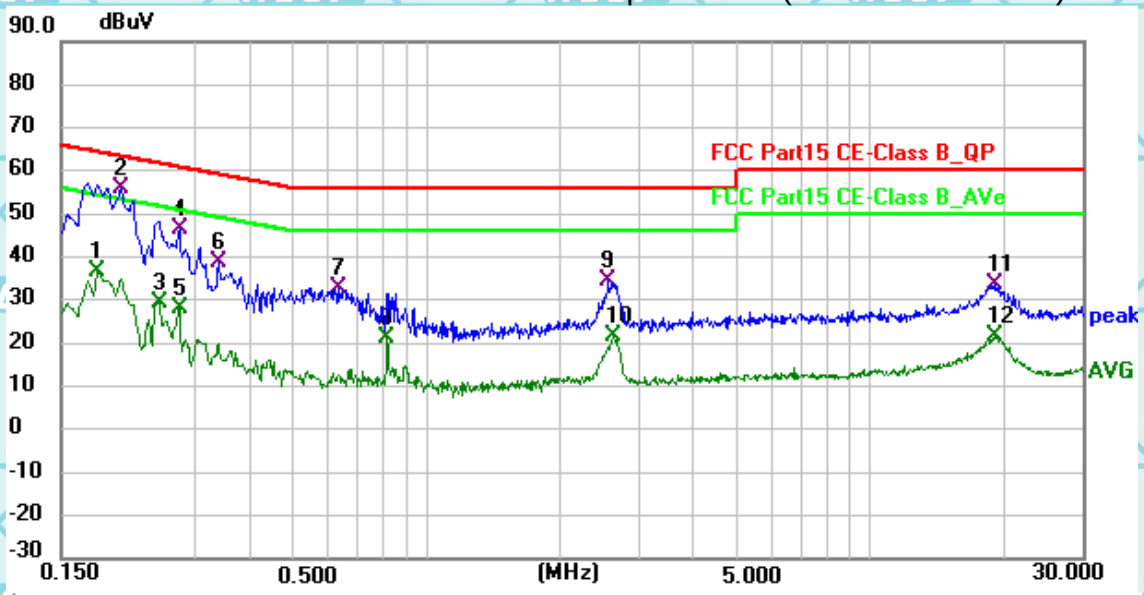
7.1.3 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.1.4 TEST RESULTS(WORST CASE)

The worst mode is 11a

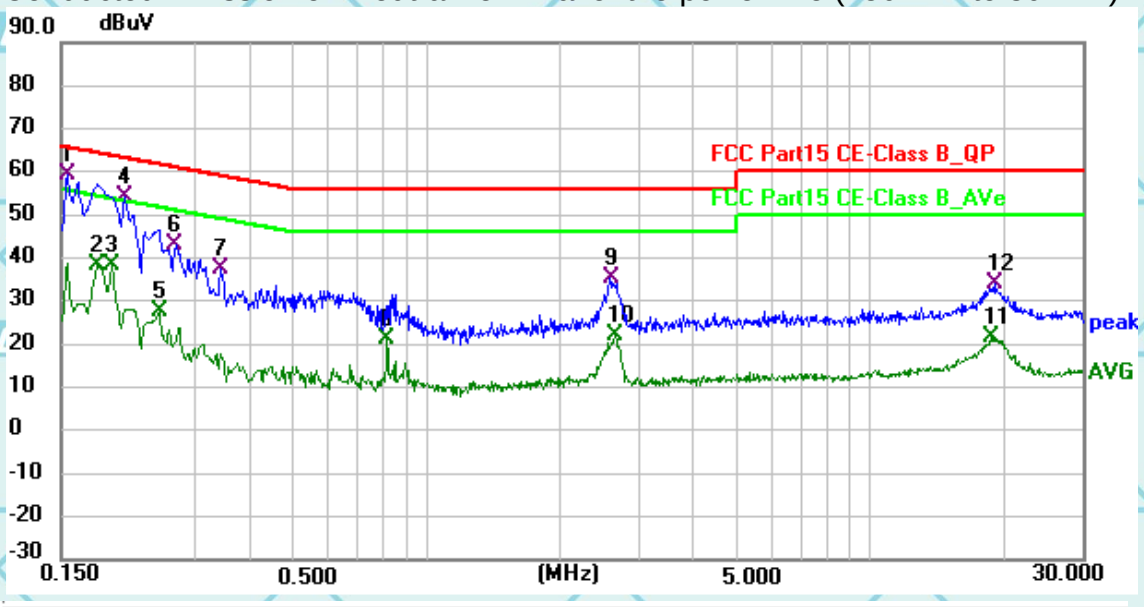
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1815	15.98	20.70	36.68	54.42	-17.74	AVG
2 *	0.2040	35.30	20.69	55.99	63.45	-7.46	QP
3	0.2490	8.84	20.66	29.50	51.79	-22.29	AVG
4	0.2760	25.67	20.64	46.31	60.94	-14.63	QP
5	0.2760	7.56	20.64	28.20	50.94	-22.74	AVG
6	0.3390	18.19	20.61	38.80	59.23	-20.43	QP
7	0.6315	12.37	20.53	32.90	56.00	-23.10	QP
8	0.8160	0.46	20.59	21.05	46.00	-24.95	AVG
9	2.5800	13.76	20.60	34.36	56.00	-21.64	QP
10	2.6385	1.11	20.60	21.71	46.00	-24.29	AVG
11	19.0230	13.41	20.24	33.65	60.00	-26.35	QP
12	19.1580	1.19	20.24	21.43	50.00	-28.57	AVG

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 *	0.1545	38.72	20.73	59.45	65.75	-6.30	QP
2	0.1815	17.49	20.70	38.19	54.42	-16.23	AVG
3	0.1949	17.46	20.69	38.15	53.83	-15.68	AVG
4	0.2085	33.36	20.68	54.04	63.26	-9.22	QP
5	0.2490	7.15	20.66	27.81	51.79	-23.98	AVG
6	0.2714	22.41	20.65	43.06	61.07	-18.01	QP
7	0.3435	16.74	20.60	37.34	59.12	-21.78	QP
8	0.8160	0.53	20.59	21.12	46.00	-24.88	AVG
9	2.5889	14.74	20.60	35.34	56.00	-20.66	QP
10	2.6520	1.44	20.60	22.04	46.00	-23.96	AVG
11	18.7395	1.34	20.24	21.58	50.00	-28.42	AVG
12	19.1084	13.77	20.24	34.01	60.00	-25.99	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

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

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

Limit (dBμV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

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

7.2 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 (micorvolts/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

7.2.1 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:

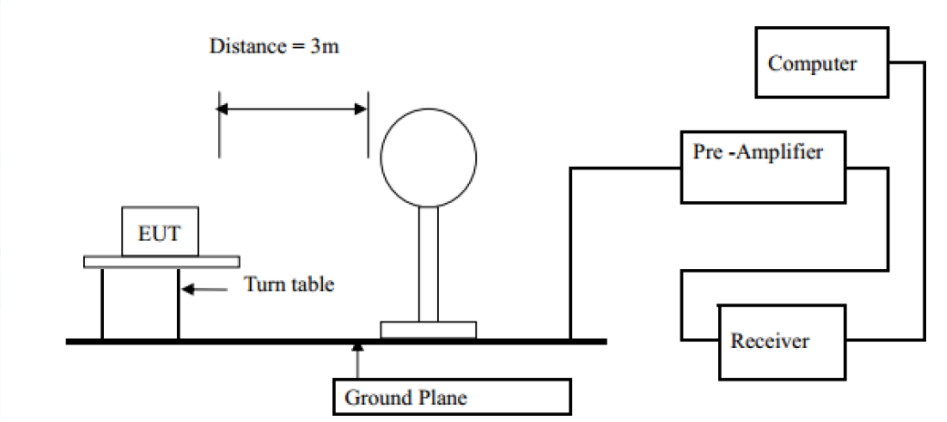
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

7.2.2 DEVIATION FROM TEST STANDARD

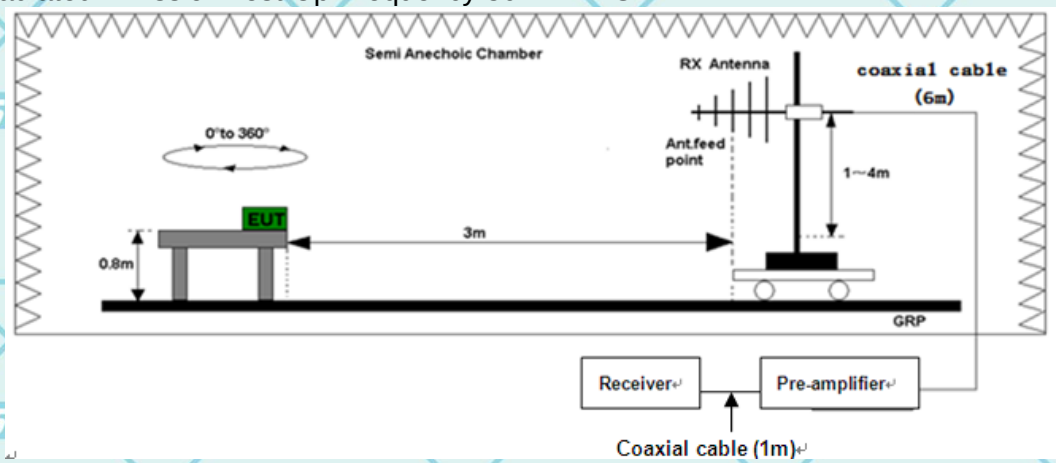
No deviation

7.2.3 TEST SETUP

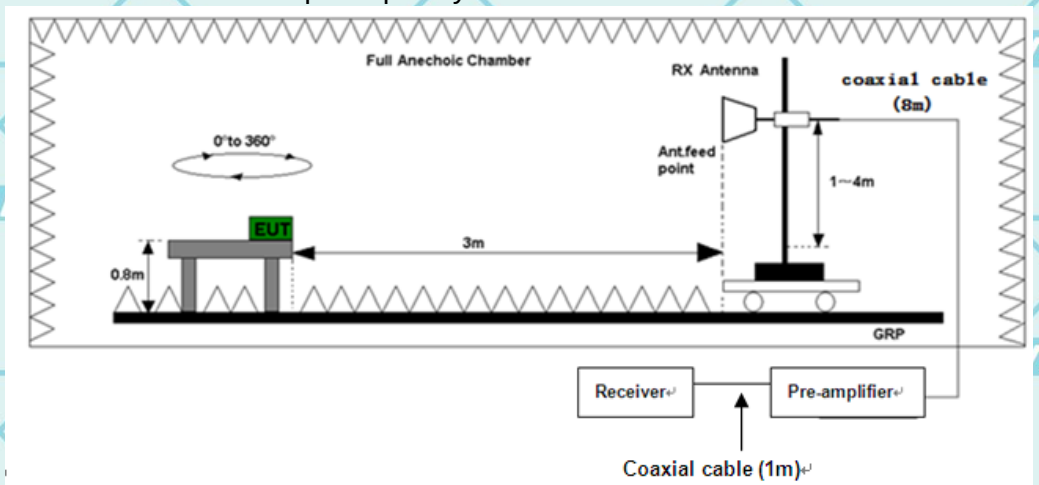
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



7.2.4 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.

7.2.5 RESULTS (BELOW 30 MHZ)

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

Note:

No result in this part for margin above 20dB.

Distance extrapolation factor =20 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.

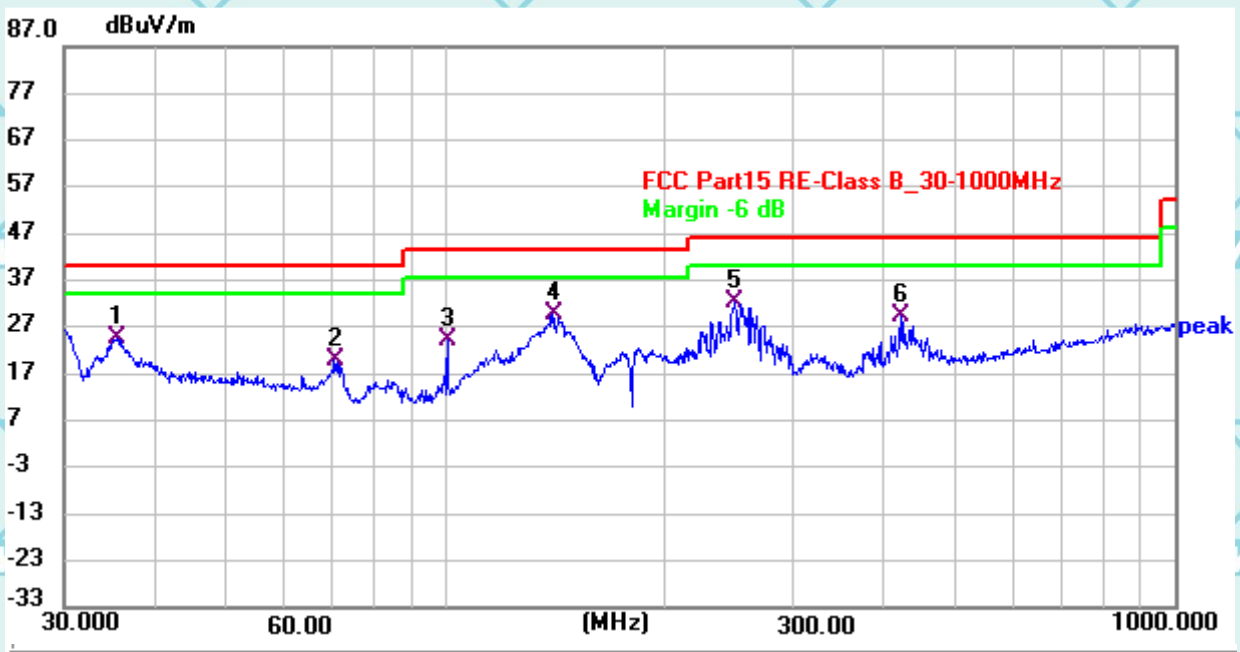
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

7.2.6 TEST RESULTS (BETWEEN 30M – 1000 MHZ) (WORST CASE)

Please refer to following diagram for individual(The worst mode is 11a)

Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.4371	44.12	-19.47	24.65	40.00	-15.35	QP
2	70.4599	42.10	-22.36	19.74	40.00	-20.26	QP
3	100.6689	47.76	-23.59	24.17	43.50	-19.33	QP
4	140.8351	49.79	-19.95	29.84	43.50	-13.66	QP
5 *	249.6438	54.15	-21.81	32.34	46.00	-13.66	QP
6	421.6879	46.31	-17.16	29.15	46.00	-16.85	QP

Vertical:

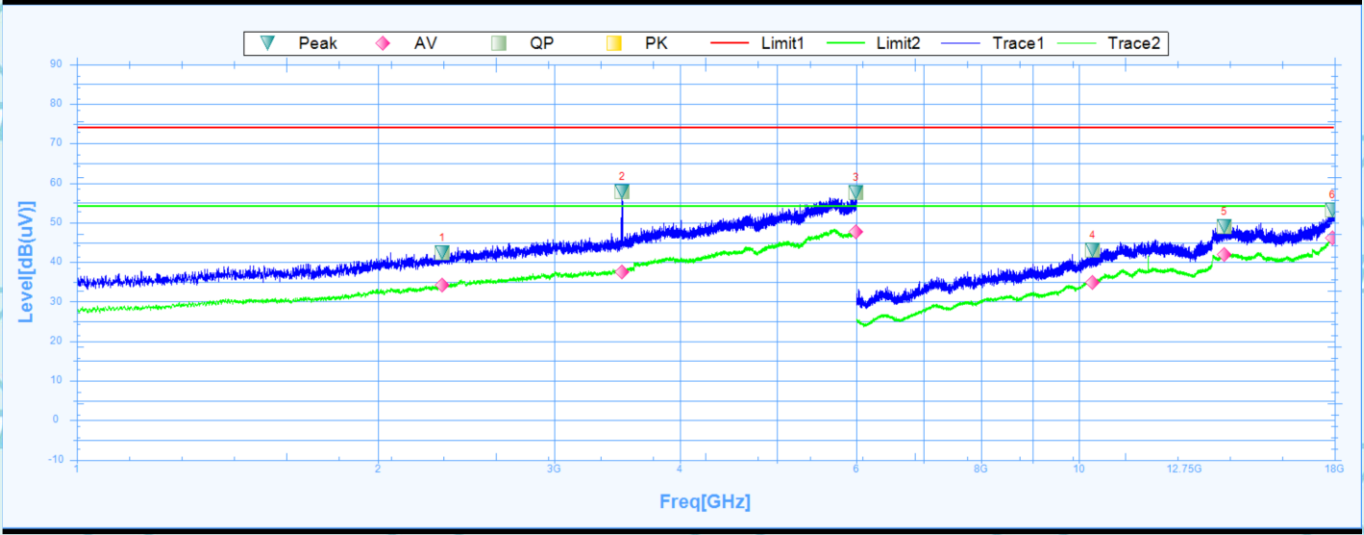
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	36.0323	51.87	-19.45	32.42	40.00	-7.58	QP
2	66.2662	42.12	-21.53	20.59	40.00	-19.41	QP
3	71.5806	47.23	-22.49	24.74	40.00	-15.26	QP
4	83.5954	51.33	-23.93	27.40	40.00	-12.60	QP
5	100.6689	48.87	-23.59	25.28	43.50	-18.22	QP
6	479.2655	45.16	-15.84	29.32	46.00	-16.68	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)

7.2.7 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.

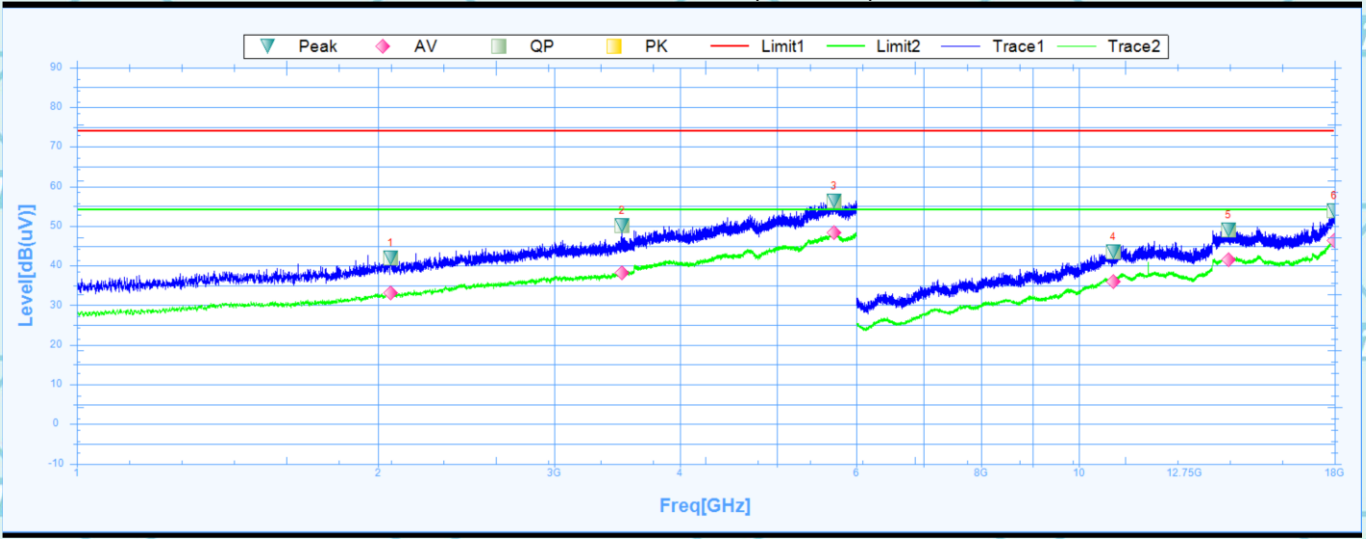
11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2317.5000	42.35	26.98	15.37	74	-31.65	33.1	Horizontal	PK	Pass
1	2317.5000	34.19	26.98	7.21	54	-19.81	33.1	Horizontal	AV	Pass
2	3505.0000	57.88	28.51	29.37	74	-16.12	357.9	Horizontal	PK	Pass
2	3505.0000	37.59	28.51	9.08	54	-16.41	357.9	Horizontal	AV	Pass
3	5999.3750	57.67	32.8	24.87	74	-16.33	69	Horizontal	PK	Pass
3	5999.3750	47.65	32.8	14.85	54	-6.35	69	Horizontal	AV	Pass
4	10330.5000	43.11	13.38	29.73	74	-30.89	301.7	Horizontal	PK	Pass
4	10330.5000	34.89	13.38	21.51	54	-19.11	301.7	Horizontal	AV	Pass
5	13978.5000	48.95	19.06	29.89	74	-25.05	212	Horizontal	PK	Pass
5	13978.5000	41.83	19.06	22.77	54	-12.17	212	Horizontal	AV	Pass
6	17919.0000	53.09	23.38	29.71	74	-20.91	26.8	Horizontal	PK	Pass
6	17919.0000	46.09	23.38	22.71	54	-7.91	26.8	Horizontal	AV	Pass

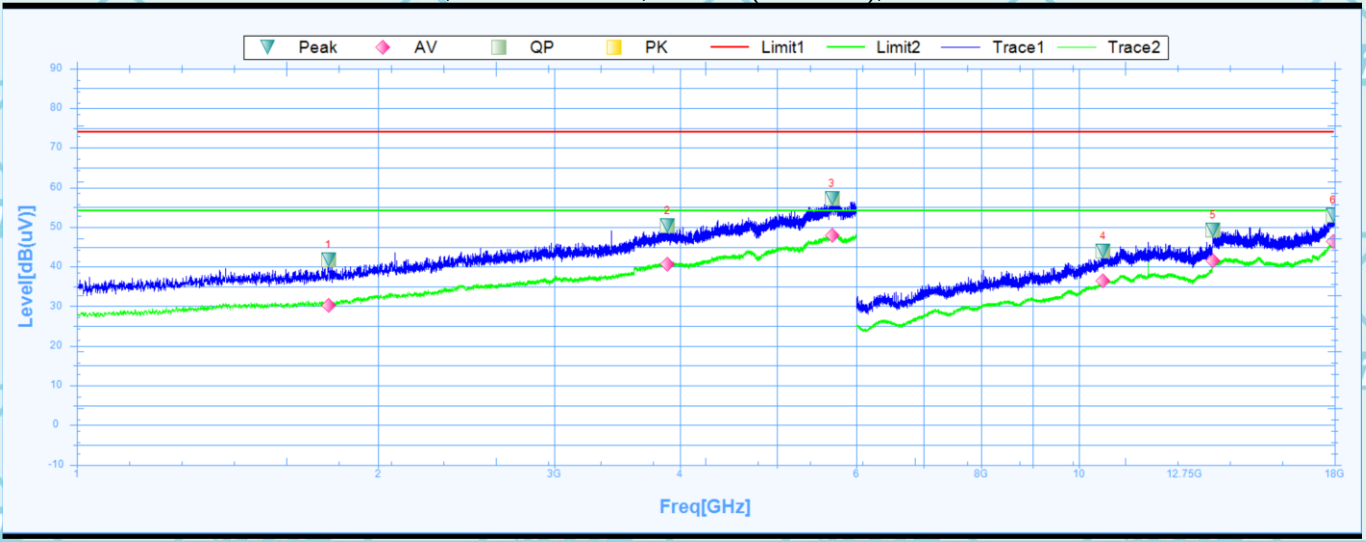
11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2056.8750	41.95	26.09	15.86	74	-32.05	286.6	Vertical	PK	Pass
1	2056.8750	33.02	26.09	6.93	54	-20.98	286.6	Vertical	AV	Pass
2	3504.3750	50.1	28.51	21.59	74	-23.9	57.1	Vertical	PK	Pass
2	3504.3750	38.09	28.51	9.58	54	-15.91	57.1	Vertical	AV	Pass
3	5701.8750	56.3	32.32	23.98	74	-17.7	0	Vertical	PK	Pass
3	5701.8750	48.23	32.32	15.91	54	-5.77	0	Vertical	AV	Pass
4	10828.5000	43.44	14.82	28.62	74	-30.56	21	Vertical	PK	Pass
4	10828.5000	35.99	14.82	21.17	54	-18.01	21	Vertical	AV	Pass
5	14109.0000	49.02	19.02	30	74	-24.98	345.9	Vertical	PK	Pass
5	14109.0000	41.58	19.02	22.56	54	-12.42	345.9	Vertical	AV	Pass
6	17992.5000	53.88	23.88	30	74	-20.12	3.8	Vertical	PK	Pass
6	17992.5000	46.32	23.88	22.44	54	-7.68	3.8	Vertical	AV	Pass

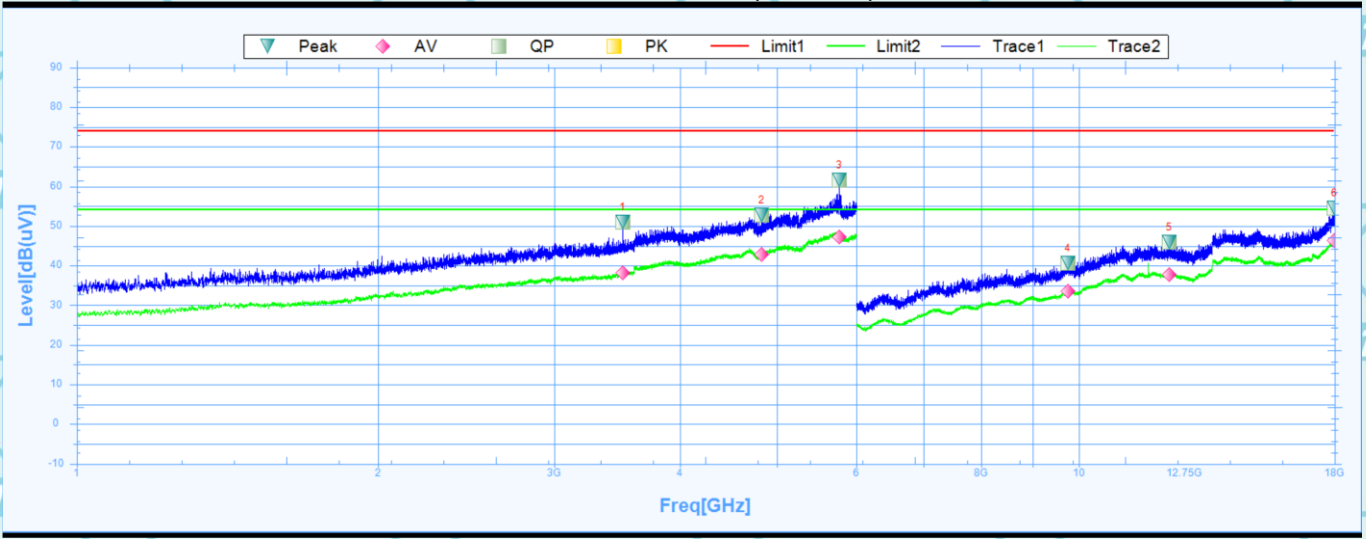
11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1783.1250	41.66	24.99	16.67	74	-32.34	-0.1	Horizontal	PK	Pass
1	1783.1250	30.31	24.99	5.32	54	-23.69	-0.1	Horizontal	AV	Pass
2	3888.1250	50.22	29.43	20.79	74	-23.78	359.5	Horizontal	PK	Pass
2	3888.1250	40.56	29.43	11.13	54	-13.44	359.5	Horizontal	AV	Pass
3	5672.5000	57.09	32.28	24.81	74	-16.91	312.9	Horizontal	PK	Pass
3	5672.5000	47.92	32.28	15.64	54	-6.08	312.9	Horizontal	AV	Pass
4	10579.5000	43.93	14.24	29.69	74	-30.07	111.7	Horizontal	PK	Pass
4	10579.5000	36.47	14.24	22.23	54	-17.53	111.7	Horizontal	AV	Pass
5	13620.0000	49.23	18.03	31.2	74	-24.77	21	Horizontal	PK	Pass
5	13620.0000	41.5	18.03	23.47	54	-12.5	21	Horizontal	AV	Pass
6	17940.0000	53.04	23.52	29.52	74	-20.96	29.2	Horizontal	PK	Pass
6	17940.0000	46.29	23.52	22.77	54	-7.71	29.2	Horizontal	AV	Pass

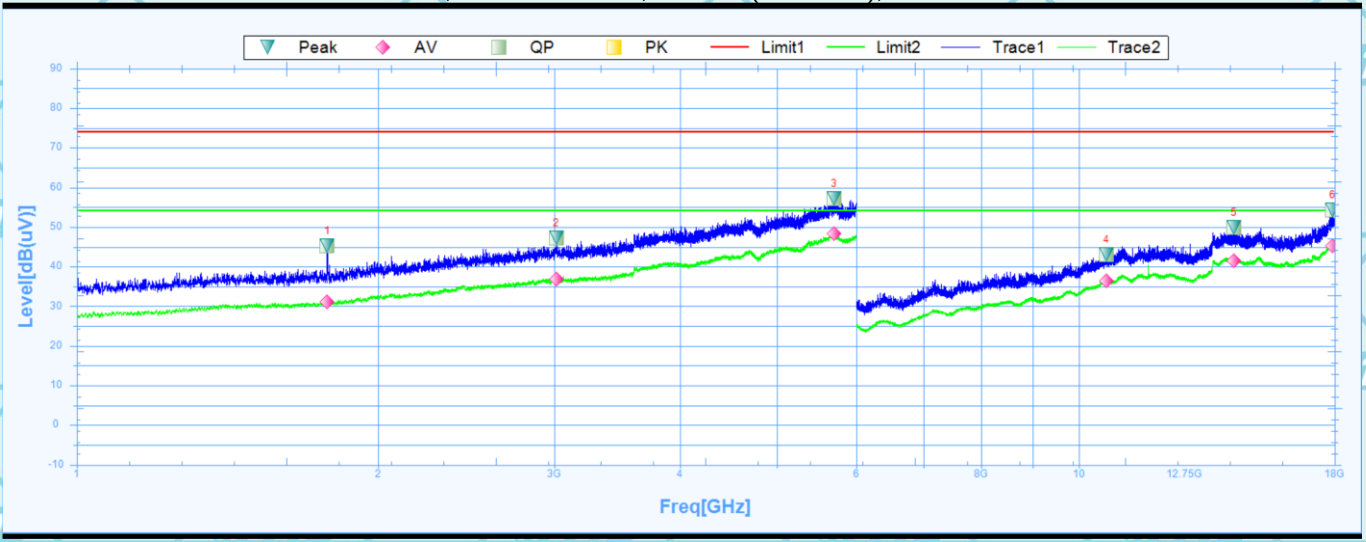
11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3506.8750	50.98	28.52	22.46	74	-23.02	51.1	Vertical	PK	Pass
1	3506.8750	38.16	28.52	9.64	54	-15.84	51.1	Vertical	AV	Pass
2	4828.7500	52.82	31.26	21.56	74	-21.18	308.2	Vertical	PK	Pass
2	4828.7500	42.84	31.26	11.58	54	-11.16	308.2	Vertical	AV	Pass
3	5771.2500	61.53	32.43	29.1	74	-12.47	238.9	Vertical	PK	Pass
3	5771.2500	47.12	32.43	14.69	54	-6.88	238.9	Vertical	AV	Pass
4	9754.5000	40.67	11.77	28.9	74	-33.33	360.1	Vertical	PK	Pass
4	9754.5000	33.58	11.77	21.81	54	-20.42	360.1	Vertical	AV	Pass
5	12313.5000	45.89	16.47	29.42	74	-28.11	222.8	Vertical	PK	Pass
5	12313.5000	37.68	16.47	21.21	54	-16.32	222.8	Vertical	AV	Pass
6	17998.5000	54.54	23.92	30.62	74	-19.46	145.1	Vertical	PK	Pass
6	17998.5000	46.43	23.92	22.51	54	-7.57	145.1	Vertical	AV	Pass

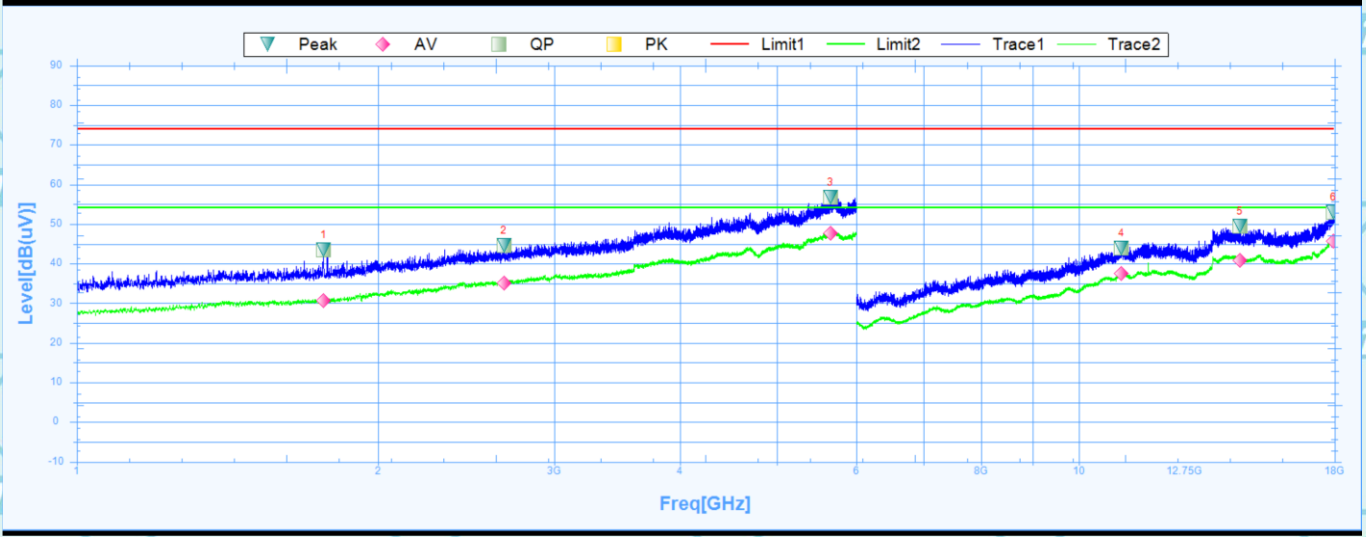
11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1779.3750	45.2	24.99	20.21	74	-28.8	189.9	Horizontal	PK	Pass
1	1779.3750	31.04	24.99	6.05	54	-22.96	189.9	Horizontal	AV	Pass
2	3011.2500	47.17	28.21	18.96	74	-26.83	85.9	Horizontal	PK	Pass
2	3011.2500	36.81	28.21	8.6	54	-17.19	85.9	Horizontal	AV	Pass
3	5703.7500	57.15	32.33	24.82	74	-16.85	9.9	Horizontal	PK	Pass
3	5703.7500	48.28	32.33	15.95	54	-5.72	9.9	Horizontal	AV	Pass
4	10662.0000	43.06	14.54	28.52	74	-30.94	44.7	Horizontal	PK	Pass
4	10662.0000	36.31	14.54	21.77	54	-17.69	44.7	Horizontal	AV	Pass
5	14296.5000	49.91	18.82	31.09	74	-24.09	54.2	Horizontal	PK	Pass
5	14296.5000	41.54	18.82	22.72	54	-12.46	54.2	Horizontal	AV	Pass
6	17922.0000	54.25	23.4	30.85	74	-19.75	353.7	Horizontal	PK	Pass
6	17922.0000	45.3	23.4	21.9	54	-8.7	353.7	Horizontal	AV	Pass

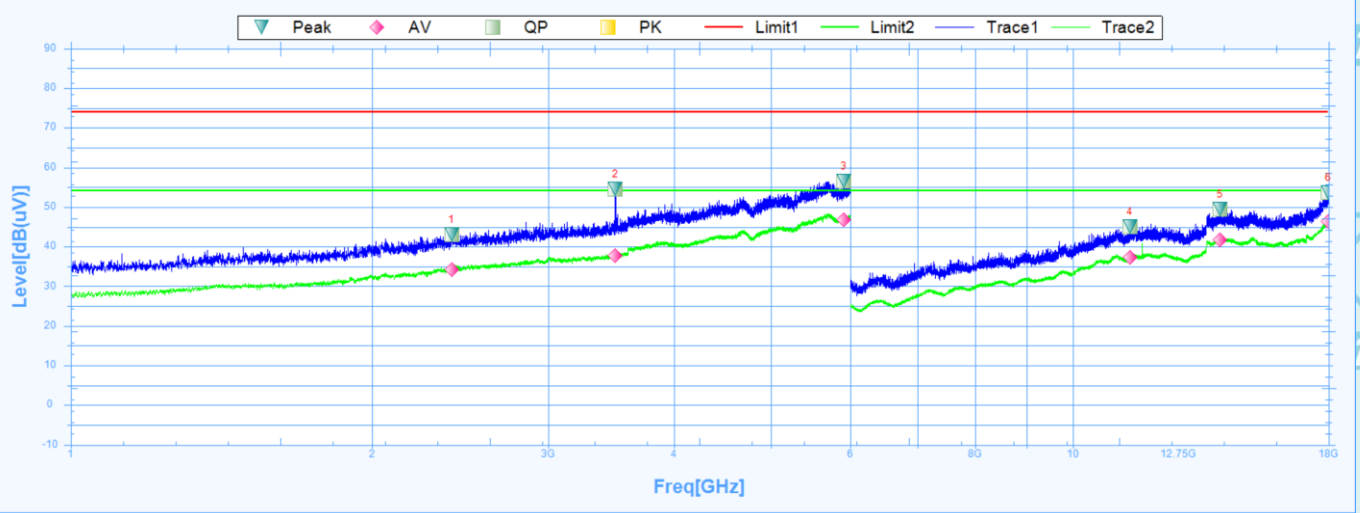
11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1763.7500	43.43	24.98	18.45	74	-30.57	0	Vertical	PK	Pass
1	1763.7500	30.66	24.98	5.68	54	-23.34	0	Vertical	AV	Pass
2	2669.3750	44.52	27.8	16.72	74	-29.48	52.3	Vertical	PK	Pass
2	2669.3750	35.02	27.8	7.22	54	-18.98	52.3	Vertical	AV	Pass
3	5654.3750	56.7	32.25	24.45	74	-17.3	216.1	Vertical	PK	Pass
3	5654.3750	47.73	32.25	15.48	54	-6.27	216.1	Vertical	AV	Pass
4	11035.5000	43.92	15.73	28.19	74	-30.08	237.2	Vertical	PK	Pass
4	11035.5000	37.48	15.73	21.75	54	-16.52	237.2	Vertical	AV	Pass
5	14487.0000	49.33	18.64	30.69	74	-24.67	149.9	Vertical	PK	Pass
5	14487.0000	40.89	18.64	22.25	54	-13.11	149.9	Vertical	AV	Pass
6	17955.0000	52.9	23.61	29.29	74	-21.1	226.4	Vertical	PK	Pass
6	17955.0000	45.64	23.61	22.03	54	-8.36	226.4	Vertical	AV	Pass

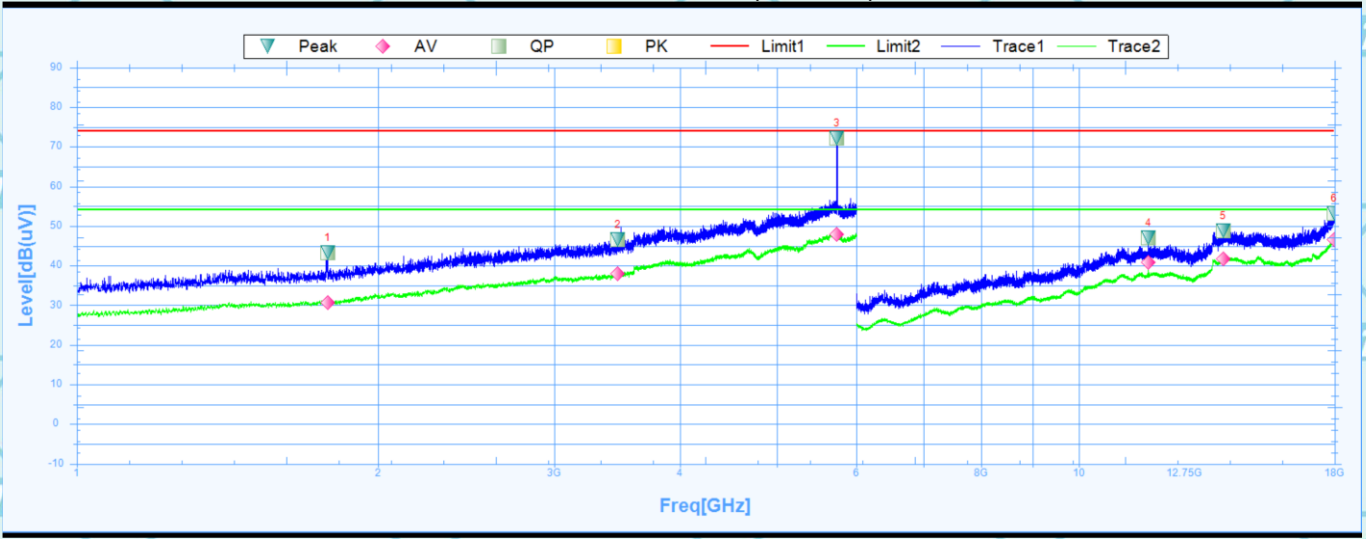
11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2399.3750	42.96	27.26	15.7	74	-31.04	322.5	Horizontal	PK	Pass
1	2399.3750	34.28	27.26	7.02	54	-19.72	322.5	Horizontal	AV	Pass
2	3497.5000	54.51	28.5	26.01	74	-19.49	186.2	Horizontal	PK	Pass
2	3497.5000	37.69	28.5	9.19	54	-16.31	186.2	Horizontal	AV	Pass
3	5912.5000	56.57	32.66	23.91	74	-17.43	358.6	Horizontal	PK	Pass
3	5912.5000	46.69	32.66	14.03	54	-7.31	358.6	Horizontal	AV	Pass
4	11407.5000	45.01	15.87	29.14	74	-28.99	24.5	Horizontal	PK	Pass
4	11407.5000	37.24	15.87	21.37	54	-16.76	24.5	Horizontal	AV	Pass
5	14034.0000	49.39	19.09	30.3	74	-24.61	282.6	Horizontal	PK	Pass
5	14034.0000	41.67	19.09	22.58	54	-12.33	282.6	Horizontal	AV	Pass
6	17991.0000	53.67	23.87	29.8	74	-20.33	258.8	Horizontal	PK	Pass
6	17991.0000	46.36	23.87	22.49	54	-7.64	258.8	Horizontal	AV	Pass

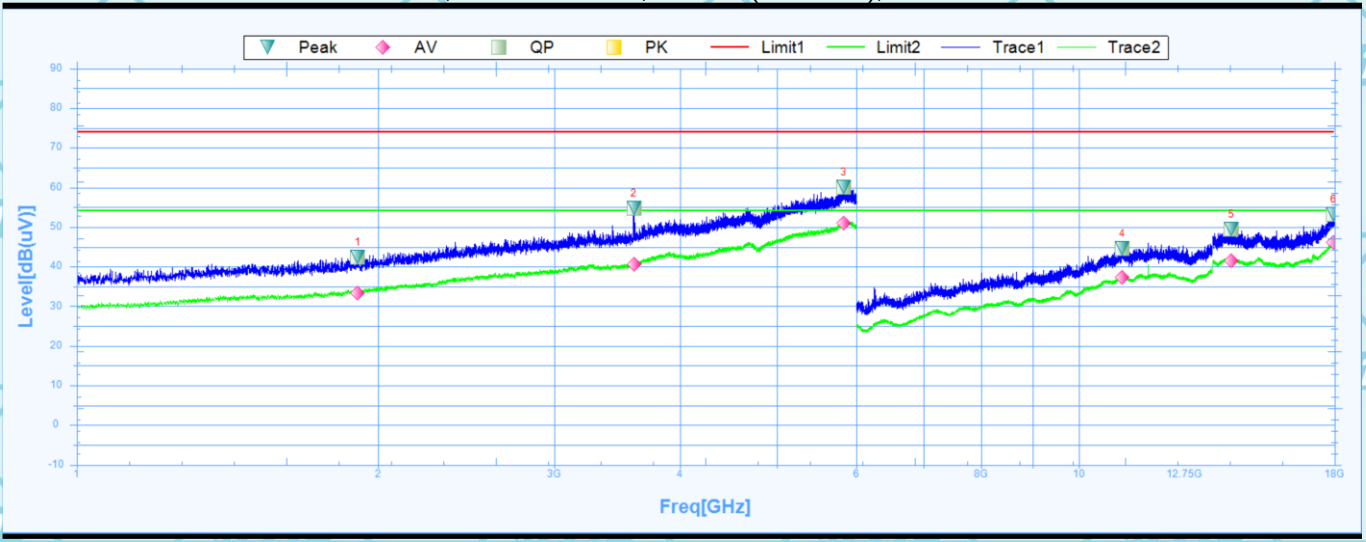
11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1780.0000	43.29	24.99	18.3	74	-30.71	29.6	Vertical	PK	Pass
1	1780.0000	30.7	24.99	5.71	54	-23.3	29.6	Vertical	AV	Pass
2	3470.0000	46.62	28.48	18.14	74	-27.38	6.2	Vertical	PK	Pass
2	3470.0000	37.86	28.48	9.38	54	-16.14	6.2	Vertical	AV	Pass
3	5740.6250	72.17	32.38	39.79	74	-1.83	358.7	Vertical	PK	Pass
3	5740.6250	47.89	32.38	15.51	54	-6.11	358.7	Vertical	AV	Pass
4	11745.0000	46.9	16.11	30.79	74	-27.1	89	Vertical	PK	Pass
4	11745.0000	40.83	16.11	24.72	54	-13.17	89	Vertical	AV	Pass
5	13942.5000	48.8	18.95	29.85	74	-25.2	355.1	Vertical	PK	Pass
5	13942.5000	41.64	18.95	22.69	54	-12.36	355.1	Vertical	AV	Pass
6	17986.5000	53.08	23.83	29.25	74	-20.92	360	Vertical	PK	Pass
6	17986.5000	46.49	23.83	22.66	54	-7.51	360	Vertical	AV	Pass

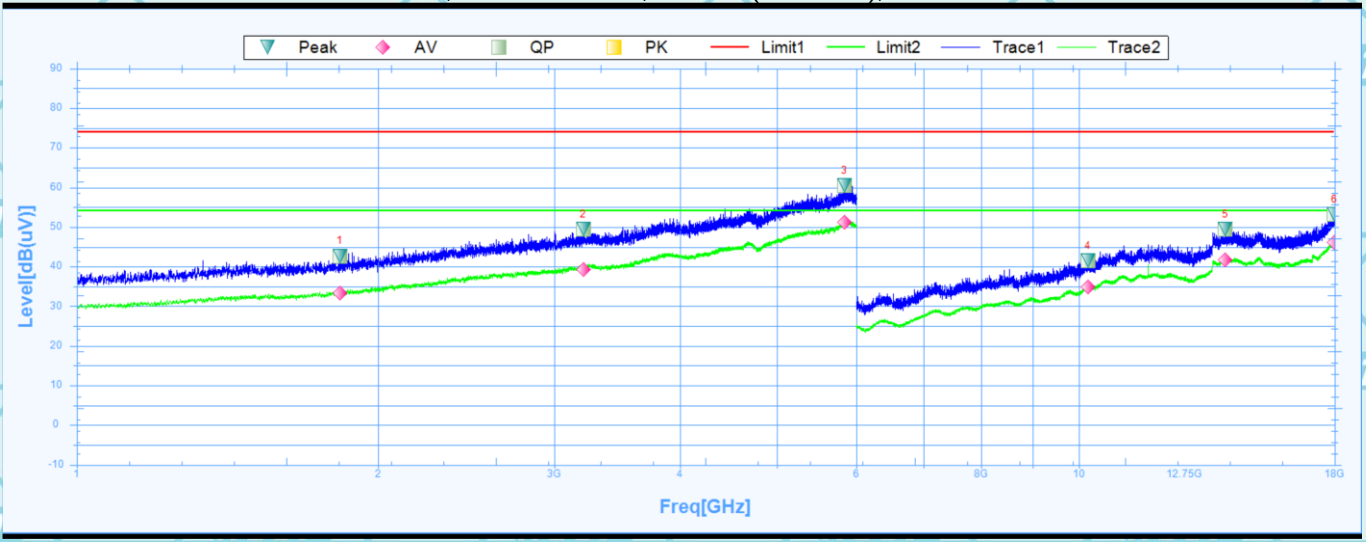
11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1908.7500	42.35	25.49	16.86	74	-31.65	-0.1	Horizontal	PK	Pass
1	1908.7500	33.3	25.49	7.81	54	-20.7	-0.1	Horizontal	AV	Pass
2	3598.7500	54.73	28.74	25.99	74	-19.27	-0.1	Horizontal	PK	Pass
2	3598.7500	40.56	28.74	11.82	54	-13.44	-0.1	Horizontal	AV	Pass
3	5832.5000	60.11	32.53	27.58	74	-13.89	259.1	Horizontal	PK	Pass
3	5832.5000	50.93	32.53	18.4	54	-3.07	259.1	Horizontal	AV	Pass
4	11059.5000	44.57	15.81	28.76	74	-29.43	233.6	Horizontal	PK	Pass
4	11059.5000	37.34	15.81	21.53	54	-16.66	233.6	Horizontal	AV	Pass
5	14209.5000	49.35	18.92	30.43	74	-24.65	360	Horizontal	PK	Pass
5	14209.5000	41.56	18.92	22.64	54	-12.44	360	Horizontal	AV	Pass
6	17962.5000	53.26	23.66	29.6	74	-20.74	2.7	Horizontal	PK	Pass
6	17962.5000	46.16	23.66	22.5	54	-7.84	2.7	Horizontal	AV	Pass

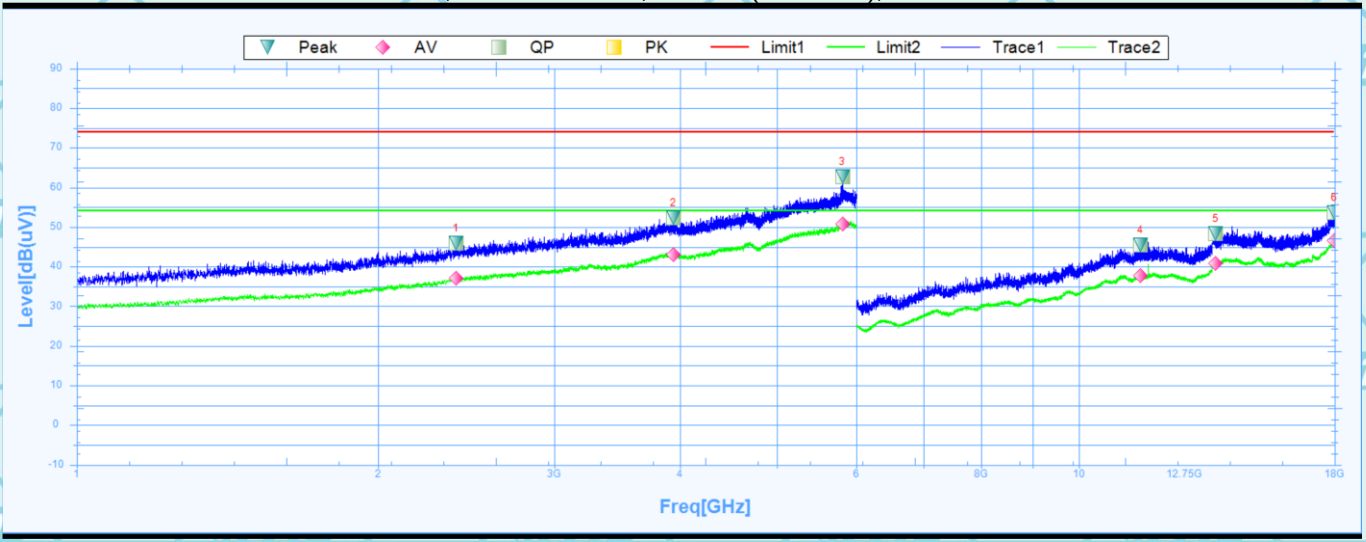
11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1830.6250	42.68	25.14	17.54	74	-31.32	360.1	Vertical	PK	Pass
1	1830.6250	33.32	25.14	8.18	54	-20.68	360.1	Vertical	AV	Pass
2	3203.1250	49.45	28.32	21.13	74	-24.55	200.2	Vertical	PK	Pass
2	3203.1250	39.23	28.32	10.91	54	-14.77	200.2	Vertical	AV	Pass
3	5839.3750	60.52	32.54	27.98	74	-13.48	274.2	Vertical	PK	Pass
3	5839.3750	51.28	32.54	18.74	54	-2.72	274.2	Vertical	AV	Pass
4	10216.5000	41.51	13.03	28.48	74	-32.49	210.1	Vertical	PK	Pass
4	10216.5000	34.76	13.03	21.73	54	-19.24	210.1	Vertical	AV	Pass
5	14010.0000	49.47	19.12	30.35	74	-24.53	260.3	Vertical	PK	Pass
5	14010.0000	41.79	19.12	22.67	54	-12.21	260.3	Vertical	AV	Pass
6	17995.5000	53.27	23.9	29.37	74	-20.73	281.8	Vertical	PK	Pass
6	17995.5000	46.18	23.9	22.28	54	-7.82	281.8	Vertical	AV	Pass

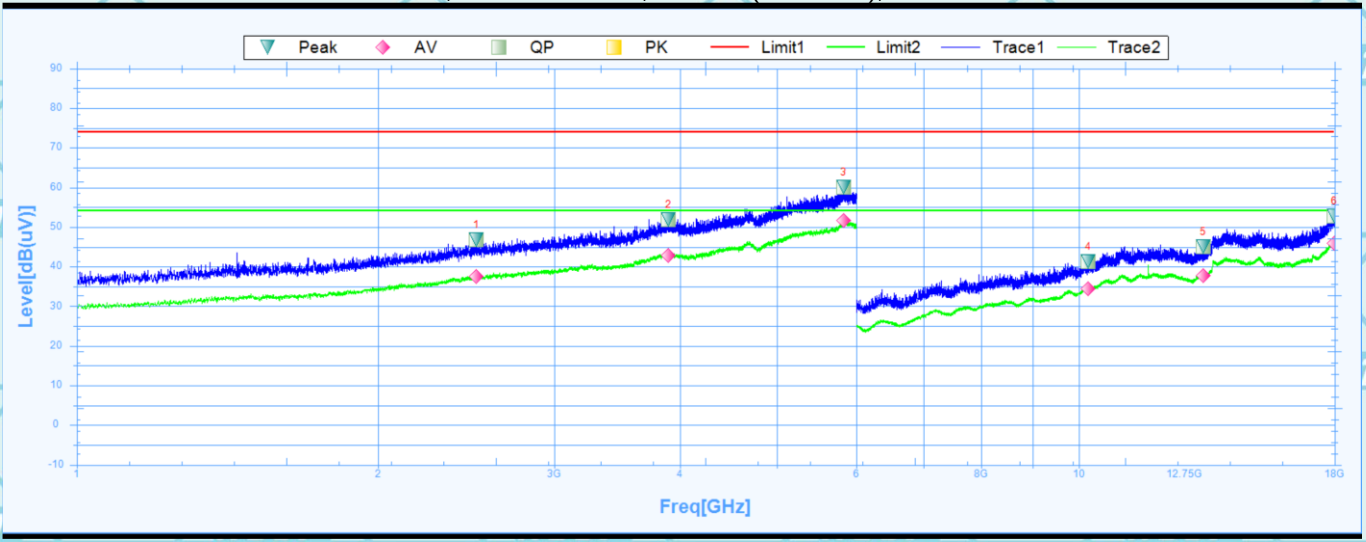
11a, 1 GHz to 18 GHz, Channel (5700 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2390.0000	45.82	27.23	18.59	74	-28.18	325.6	Horizontal	PK	Pass
1	2390.0000	37	27.23	9.77	54	-17	325.6	Horizontal	AV	Pass
2	3941.8750	52.3	29.56	22.74	74	-21.7	153.5	Horizontal	PK	Pass
2	3941.8750	43	29.56	13.44	54	-11	153.5	Horizontal	AV	Pass
3	5811.2500	62.69	32.5	30.19	74	-11.31	0.5	Horizontal	PK	Pass
3	5811.2500	50.73	32.5	18.23	54	-3.27	0.5	Horizontal	AV	Pass
4	11526.0000	45.54	16.2	29.34	74	-28.46	28.4	Horizontal	PK	Pass
4	11526.0000	37.63	16.2	21.43	54	-16.37	28.4	Horizontal	AV	Pass
5	13704.0000	48.38	18.27	30.11	74	-25.62	-0.1	Horizontal	PK	Pass
5	13704.0000	40.83	18.27	22.56	54	-13.17	-0.1	Horizontal	AV	Pass
6	17992.5000	53.54	23.88	29.66	74	-20.46	254.3	Horizontal	PK	Pass
6	17992.5000	46.54	23.88	22.66	54	-7.46	254.3	Horizontal	AV	Pass

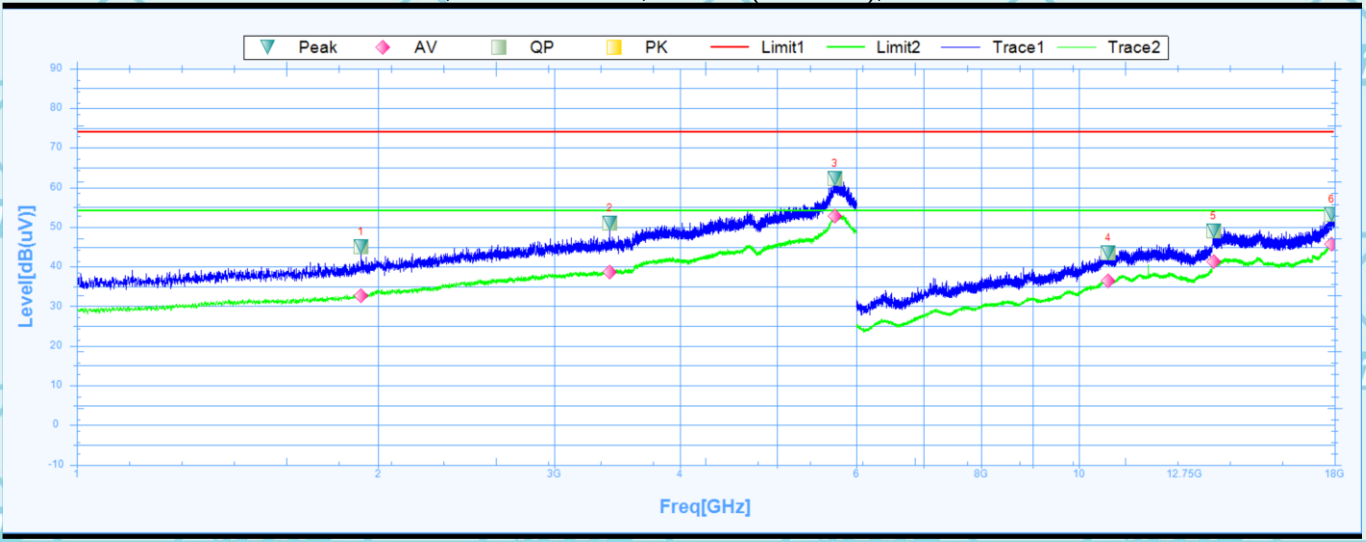
11a, 1 GHz to 18 GHz, Channel (5700 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2505.6250	46.71	27.61	19.1	74	-27.29	356.6	Vertical	PK	Pass
1	2505.6250	37.43	27.61	9.82	54	-16.57	356.6	Vertical	AV	Pass
2	3898.1250	51.89	29.46	22.43	74	-22.11	0.5	Vertical	PK	Pass
2	3898.1250	42.78	29.46	13.32	54	-11.22	0.5	Vertical	AV	Pass
3	5830.6250	60.1	32.53	27.57	74	-13.9	136.8	Vertical	PK	Pass
3	5830.6250	51.58	32.53	19.05	54	-2.42	136.8	Vertical	AV	Pass
4	10225.5000	41.17	13.06	28.11	74	-32.83	358.6	Vertical	PK	Pass
4	10225.5000	34.39	13.06	21.33	54	-19.61	358.6	Vertical	AV	Pass
5	13315.5000	45.04	17.12	27.92	74	-28.96	355	Vertical	PK	Pass
5	13315.5000	37.64	17.12	20.52	54	-16.36	355	Vertical	AV	Pass
6	17989.5000	52.67	23.86	28.81	74	-21.33	104.9	Vertical	PK	Pass
6	17989.5000	45.88	23.86	22.02	54	-8.12	104.9	Vertical	AV	Pass

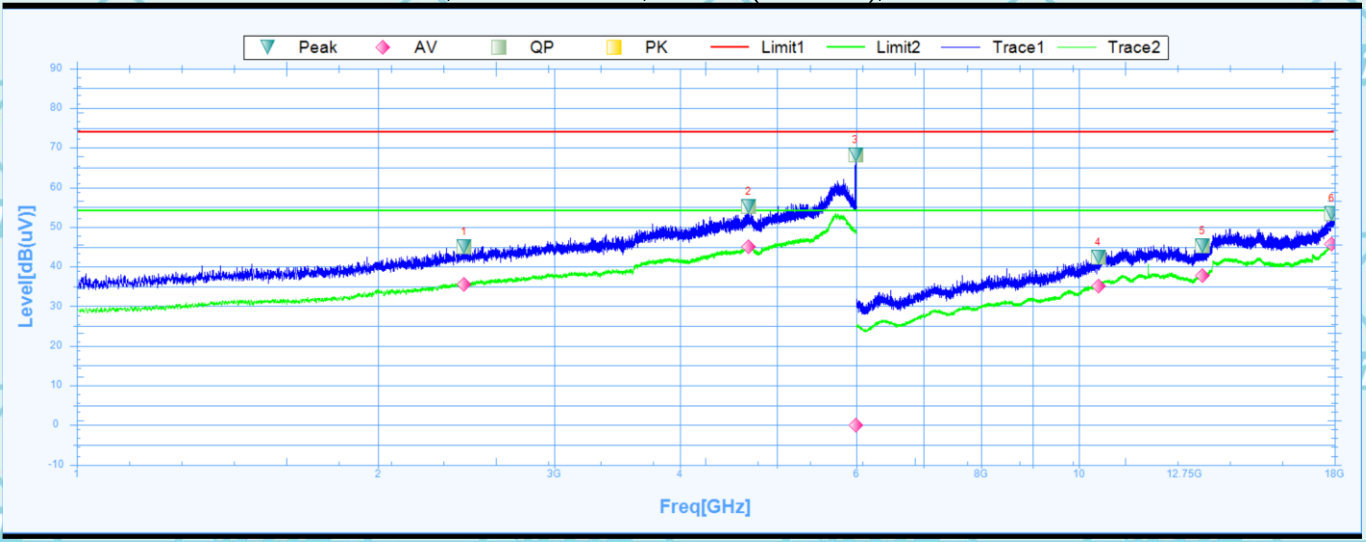
11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1921.8750	45.07	25.55	19.52	74	-28.93	360.1	Horizontal	PK	Pass
1	1921.8750	32.68	25.55	7.13	54	-21.32	360.1	Horizontal	AV	Pass
2	3406.2500	51.07	28.44	22.63	74	-22.93	65	Horizontal	PK	Pass
2	3406.2500	38.7	28.44	10.26	54	-15.3	65	Horizontal	AV	Pass
3	5712.5000	62.17	32.34	29.83	74	-11.83	89	Horizontal	PK	Pass
3	5712.5000	52.8	32.34	20.46	54	-1.2	89	Horizontal	AV	Pass
4	10705.5000	43.56	14.61	28.95	74	-30.44	84.6	Horizontal	PK	Pass
4	10705.5000	36.31	14.61	21.7	54	-17.69	84.6	Horizontal	AV	Pass
5	13633.5000	48.96	18.07	30.89	74	-25.04	26	Horizontal	PK	Pass
5	13633.5000	41.36	18.07	23.29	54	-12.64	26	Horizontal	AV	Pass
6	17880.0000	53.09	23.14	29.95	74	-20.91	87	Horizontal	PK	Pass
6	17880.0000	45.72	23.14	22.58	54	-8.28	87	Horizontal	AV	Pass

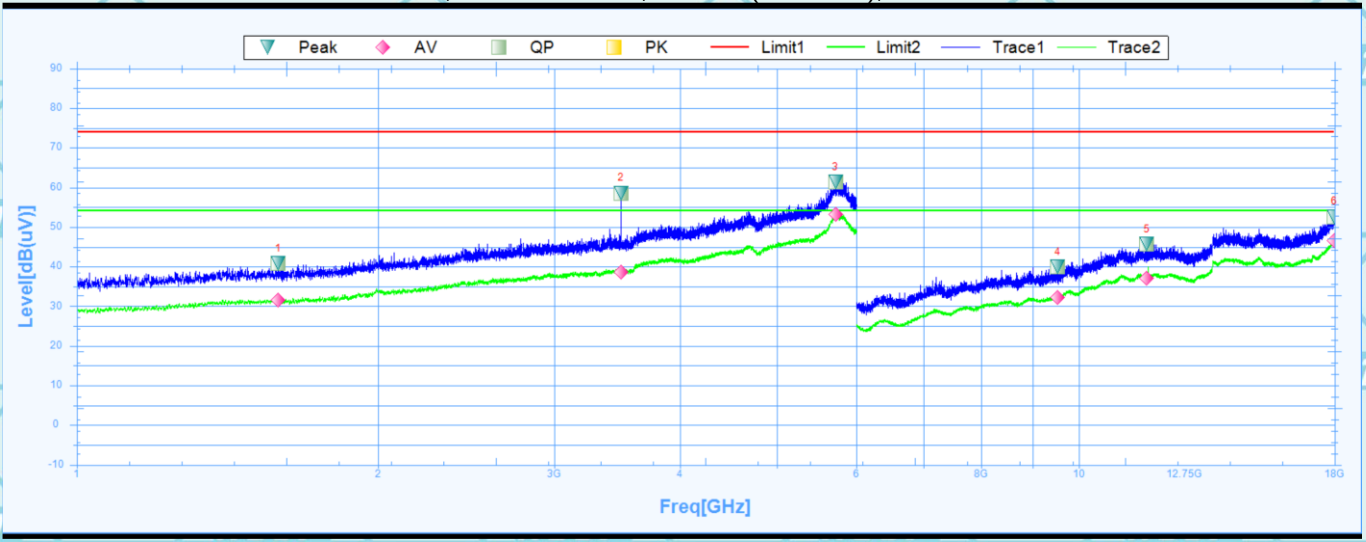
11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT V



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2435.6250	45.09	27.38	17.71	74	-28.91	263.5	Vertical	PK	Pass
1	2435.6250	35.48	27.38	8.1	54	-18.52	263.5	Vertical	AV	Pass
2	4684.3750	55.23	30.97	24.26	74	-18.77	95	Vertical	PK	Pass
2	4684.3750	44.96	30.97	13.99	54	-9.04	95	Vertical	AV	Pass
3	5988.1250	68.24	32.78	35.46	74	-5.76	21.1	Vertical	PK	Pass
3	5988.1964	0	32.78	-32.78	54	-54	64.9	Vertical	AV	Pass
4	10458.0000	42.34	13.78	28.56	74	-31.66	359.3	Vertical	PK	Pass
4	10458.0000	35.12	13.78	21.34	54	-18.88	359.3	Vertical	AV	Pass
5	13290.0000	45.3	17.03	28.27	74	-28.7	359.5	Vertical	PK	Pass
5	13290.0000	37.62	17.03	20.59	54	-16.38	359.5	Vertical	AV	Pass
6	17890.5000	53.31	23.2	30.11	74	-20.69	343.6	Vertical	PK	Pass
6	17890.5000	45.79	23.2	22.59	54	-8.21	343.6	Vertical	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5825 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	1589.3750	40.73	24.91	15.82	74	-33.27	183.4	Horizontal	PK	Pass
1	1589.3750	31.59	24.91	6.68	54	-22.41	183.4	Horizontal	AV	Pass
2	3495.0000	58.6	28.5	30.1	74	-15.4	105.7	Horizontal	PK	Pass
2	3495.0000	38.69	28.5	10.19	54	-15.31	105.7	Horizontal	AV	Pass
3	5720.6250	61.43	32.35	29.08	74	-12.57	360.1	Horizontal	PK	Pass
3	5720.6250	53.19	32.35	20.84	54	-0.81	360.1	Horizontal	AV	Pass
4	9532.5000	39.91	11.22	28.69	74	-34.09	0	Horizontal	PK	Pass
4	9532.5000	32.2	11.22	20.98	54	-21.8	0	Horizontal	AV	Pass
5	11700.0000	45.62	16.14	29.48	74	-28.38	67.8	Horizontal	PK	Pass
5	11700.0000	37.16	16.14	21.02	54	-16.84	67.8	Horizontal	AV	Pass
6	17988.0000	52.63	23.84	28.79	74	-21.37	0	Horizontal	PK	Pass
6	17988.0000	46.59	23.84	22.75	54	-7.41	0	Horizontal	AV	Pass