

FCC RADIO TEST REPORT

FCC ID: 2AZYA-A70

Product: smartphone
Trade Mark: ACER
Model No.: A70
Family Model: N/A
Report No.: N26062907315E
Issue Date: Aug. 13, 2026

Prepared for

Senwa Global International S.A. de C.V.
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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	Senwa Global International S.A. de C.V.
Address	Av. Jose Maria Castorena 283 oficina 204 Col. Cuajimalpa, C.P. 05000 Alcaldía Cuajimalpa de Morelos, CDMX. Mexico City, Mexico
Manufacturer's Name	Senwa Global International S.A. de C.V.
Address	Av. Jose Maria Castorena 283 oficina 204 Col. Cuajimalpa, C.P. 05000 Alcaldía Cuajimalpa de Morelos, CDMX. Mexico City, Mexico
Product description	
Product name	smartphone
Trade Mark	ACER
Model and/or type reference	A70
Family Model	N/A
Test sample number	S2607030032-1#
Date (s) of performance of tests ...	Jun. 29, 2026 ~ Aug 13, 2026

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 KDB 558074 D01 15.247 Meas Guidance v05r02	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

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Donjon Huang
(Project Engineer)

Reviewed By: Aaron Cheng
Aaron Cheng
(Supervisor)

Approved By: Alex Li
Alex Li
(Manager)

2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Maximum Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

3.3 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(9-150kHz)	3.7dB
2	Conducted Emission Test(0.15-30MHz)	3.3dB
3	RF power, conducted	0.9dB
4	Power Spectral Density, conducted	0.9dB
5	Occupied bandwidth	1.2%
6	Spurious emissions, conducted	2.2dB
7	Radio Frequency	0.2ppm
8	All emissions, radiated(9kHz~30MHz)	4.5dB
9	All emissions, radiated(30MHz~1G)	4.9dB
10	All emissions, radiated(1G~18G)	5.1dB
11	All emissions, radiated(18G~40G)	5.0dB
12	Temperature	0.5°C
13	Humidity	2%

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	smartphone
Trade Mark	ACER
FCC ID	2AZYA-A70
Model No.	A70
Family Model	N/A
Model Difference	N/A
Operating Frequency	2412-2462MHz for 802.11b/g/11n (HT20); 2422-2452MHz for 802.11n (HT40)
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n40;
Antenna Type	PIFA Antenna
Antenna Gain	0.23 dBi
Adapter	Model: LD-PDS20WUL Input: 100-240V~50/60Hz 0.5A Output: 5.0V---3.0A 15.0W OR 9.0V---2.22A 19.98W OR 12.0V---1.67A 20.04W PPS: 3.3-5.9V---3.0A 17.7W, 3.3-11.0V---1.8A 19.8W
Battery	DC 3.87V, 5000mAh,19.35Wh
Rating(s)	DC 3.87V from battery or DC 5V/9V/12V from adapter
HW Version	N/A
FW Version	N/A
SW Version	N/A

Note: More details of EUT technical specification, please refer to the User's Manual.

Revision History

Report No.	Version	Description	Issued Date
N26062907315E	Rev.01	Initial issue of report	Aug. 13, 2026

5 DESCRIPTION OF TEST MODES

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

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
...	...
5	2432
6	2437
...	...
10	2457
11	2462

Note: $f_c = 2412\text{MHz} + (k-1) \times 5\text{MHz}$ $k=1$ to 11

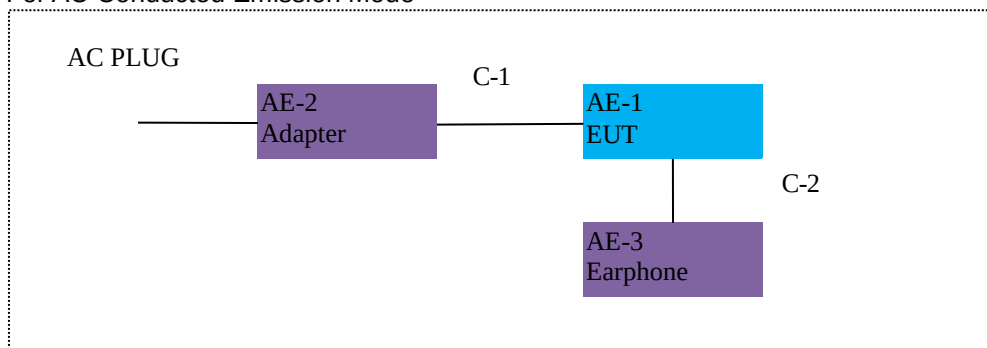
Test Mode:

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Radiated Emissions Below 1GHz	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Radiated Emissions Above 1GHz	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Band Edge Emissions	11b/CCK	1 Mbps	1/11	1
	11g/BPSK	6 Mbps	1/11	1
	11n HT20	MCS0	1/11	1
	11n HT40	MCS0	3/9	1

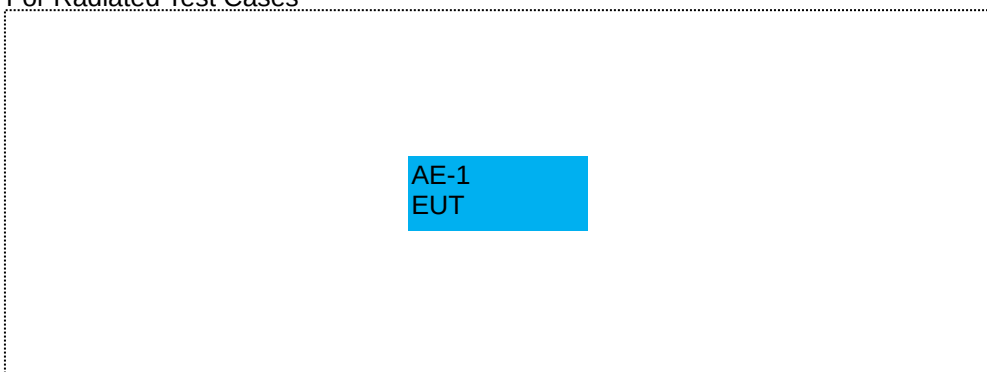
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

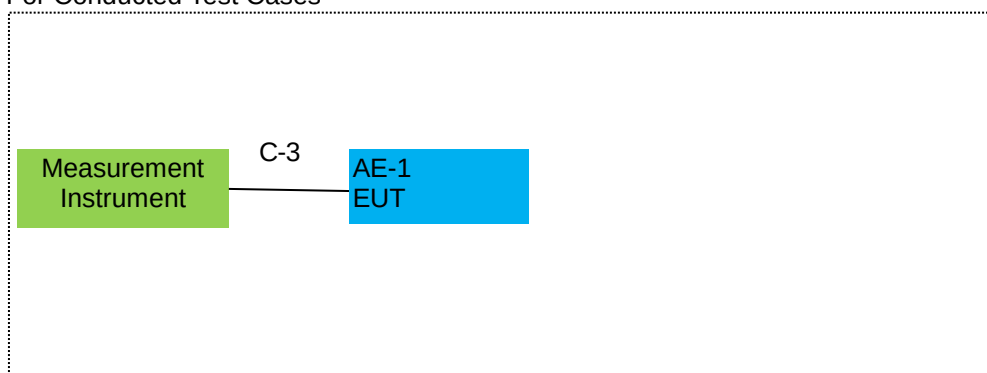
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6.2 SUPPORT EQUIPMENT

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	Model/Type No.	Series No.	Note
AE-1	smartphone	A70	N/A	EUT
AE-2	Adapter	LD-PDS20WUL	N/A	Peripherals
AE-3	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m
C-3	Earphone Cable	NO	NO	1.2m

Notes:

- (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”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2026.04.15	2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2026.04.08	2027.04.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2026.04.08	2027.04.07	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2026.04.08	2027.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2026.04.08	2027.04.07	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2026.04.08	2027.04.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2024.05.06	2027.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2024.05.06	2027.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2024.05.06	2027.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2026.04.08	2027.04.07	1 year
2	LISN	R&S	ENV216	101313	2026.04.08	2027.04.07	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2026.04.08	2027.04.07	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2024.05.06	2027.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2024.05.06	2027.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2024.05.06	2027.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

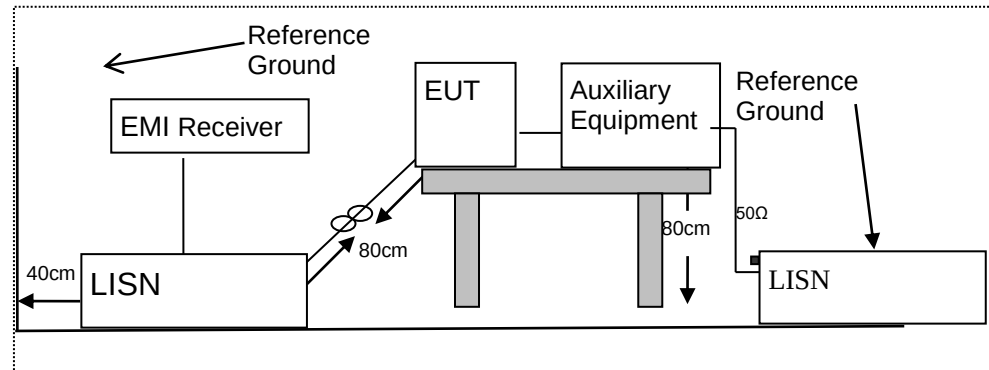
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT 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.
4. 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 40cm long.
5. 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.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

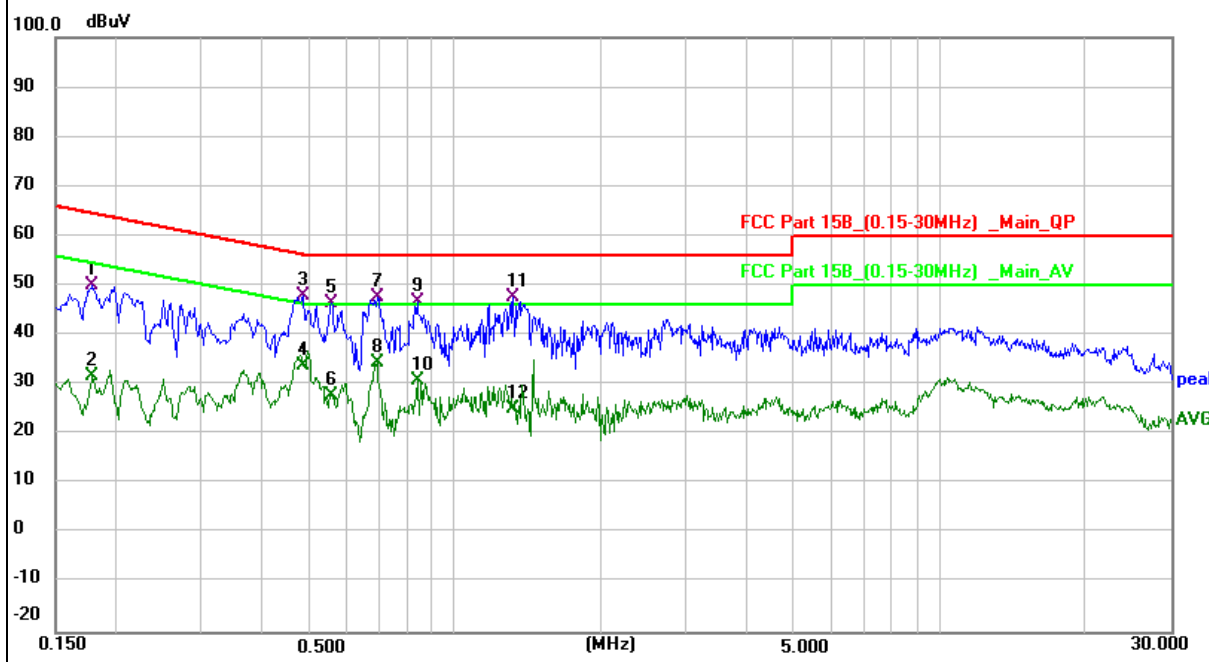
7.1.6 Test Results

EUT:	smartphone	Model Name :	A70
Temperature:	25.7℃	Relative Humidity:	57.1%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1780	29.67	20.40	50.07	64.58	-14.51	QP
0.1780	11.41	20.40	31.81	54.58	-22.77	AVG
0.4860	27.45	20.47	47.92	56.24	-8.32	QP
0.4860	13.45	20.47	33.92	46.24	-12.32	AVG
0.5551	25.89	20.46	46.35	56.00	-9.65	QP
0.5551	7.38	20.46	27.84	46.00	-18.16	AVG
0.6900	27.29	20.44	47.73	56.00	-8.27	QP
0.6900	13.98	20.44	34.42	46.00	-11.58	AVG
0.8380	26.40	20.41	46.81	56.00	-9.19	QP
0.8380	10.58	20.41	30.99	46.00	-15.01	AVG
1.3180	27.42	20.28	47.70	56.00	-8.30	QP
1.3180	4.81	20.28	25.09	46.00	-20.91	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

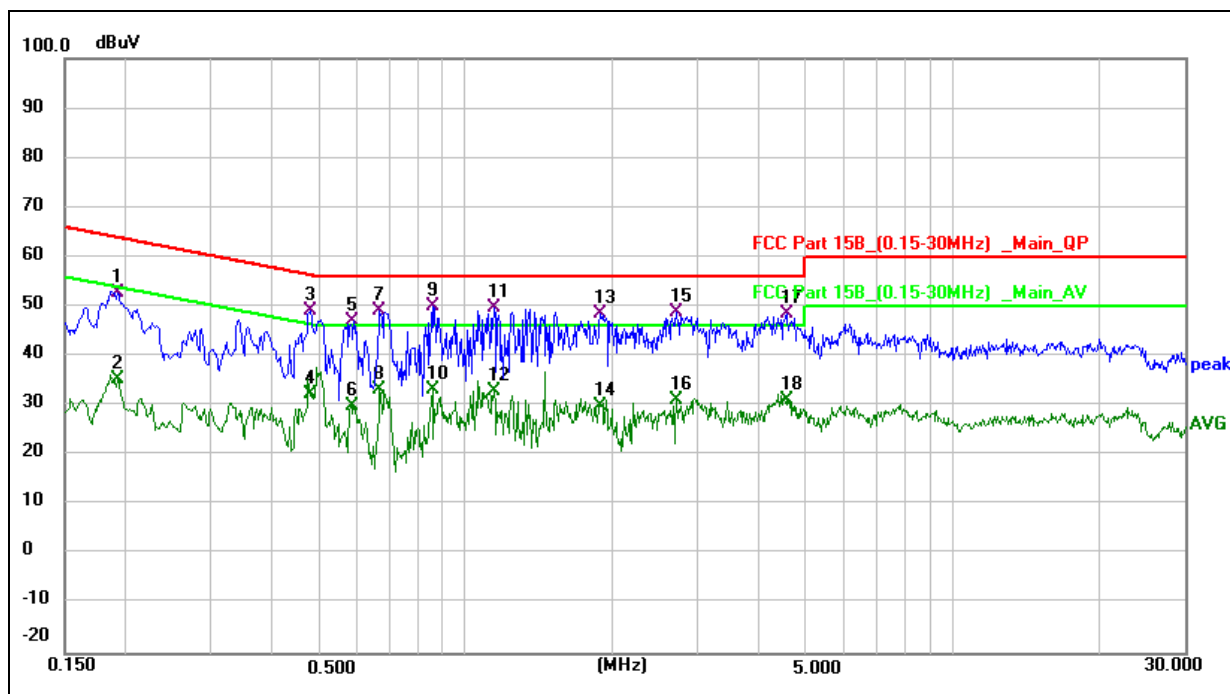


EUT:	smartphone	Model Name :	A70
Temperature:	25.7℃	Relative Humidity:	57.1%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1922	32.51	20.38	52.89	63.94	-11.05	QP
0.1922	15.01	20.38	35.39	53.94	-18.55	AVG
0.4780	28.88	20.40	49.28	56.37	-7.09	QP
0.4780	12.03	20.40	32.43	46.37	-13.94	AVG
0.5899	26.61	20.45	47.06	56.00	-8.94	QP
0.5899	9.62	20.45	30.07	46.00	-15.93	AVG
0.6660	28.70	20.49	49.19	56.00	-6.81	QP
0.6660	12.66	20.49	33.15	46.00	-12.85	AVG
0.8540	29.74	20.41	50.15	56.00	-5.85	QP
0.8540	12.97	20.41	33.38	46.00	-12.62	AVG
1.1460	29.55	20.25	49.80	56.00	-6.20	QP
1.1460	12.75	20.25	33.00	46.00	-13.00	AVG
1.8900	28.27	20.26	48.53	56.00	-7.47	QP
1.8900	9.81	20.26	30.07	46.00	-15.93	AVG
2.7180	28.64	20.20	48.84	56.00	-7.16	QP
2.7180	10.87	20.20	31.07	46.00	-14.93	AVG
4.5500	28.40	20.25	48.65	56.00	-7.35	QP
4.5500	10.88	20.25	31.13	46.00	-14.87	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (μV/m)	300
0.490-1.705	24000/F(KHz)	20 log (μV/m)	30
1.705-30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark : 1. Emission level in dBuV/m=20 log (μV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. For Frequency 9kHz~30MHz:
 Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
 Limit line=Specific limits(dBuV) + distance extrapolation factor.
 For Frequency above 30MHz:
 Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

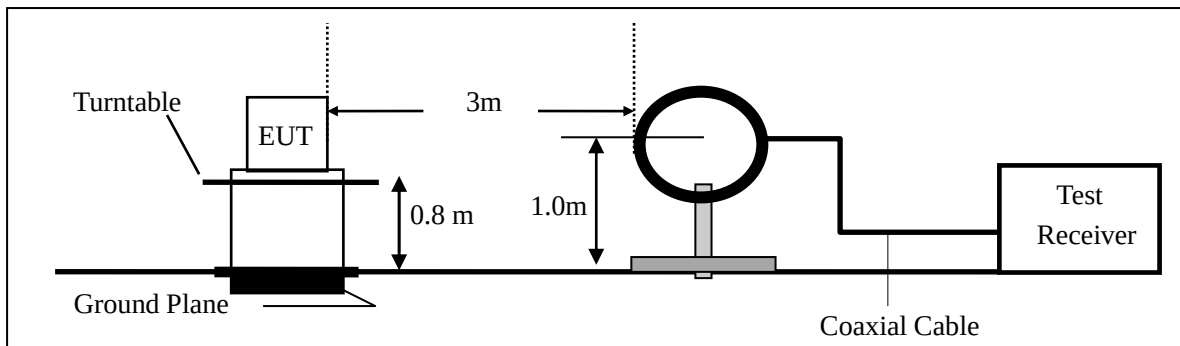
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

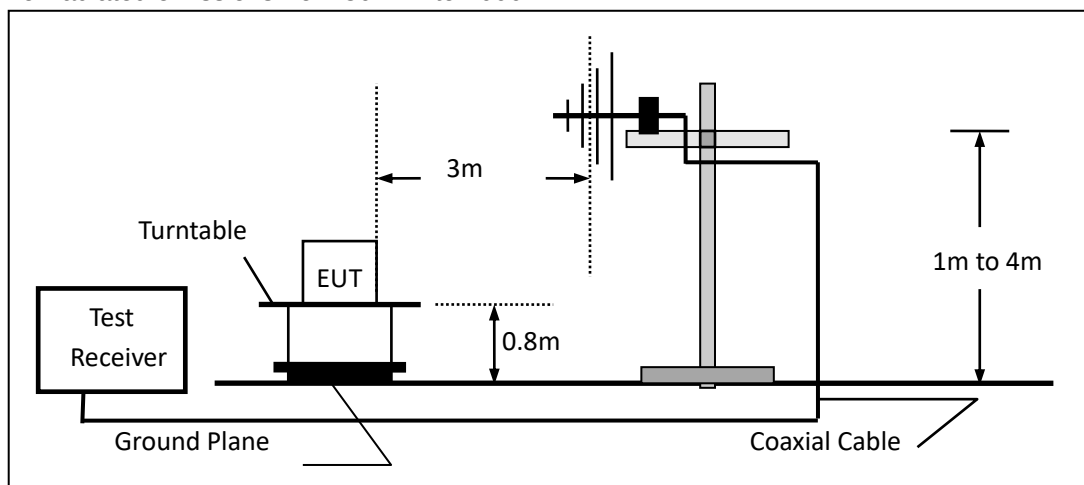
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

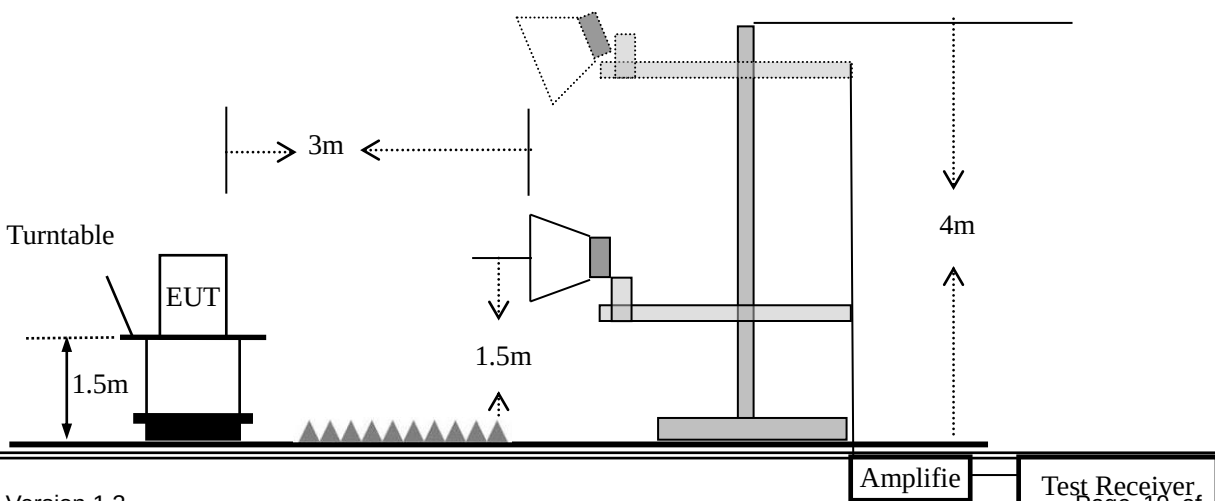
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

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 / 1MHz 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

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; 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.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the 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.
- 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

For peak measurement:

Set RBW=120 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz]/\text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20/ HT40)	Test By:	Donjon Huang

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission below 1GHz (30MHz to 1GHz)

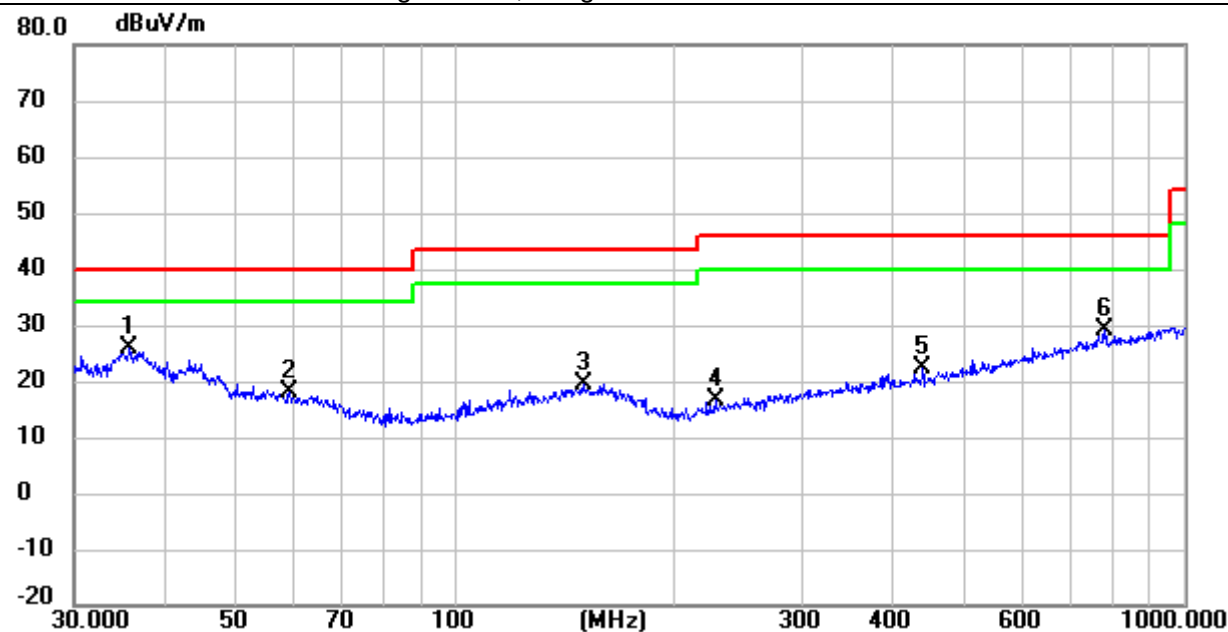
All the modulation modes have been tested, and the worst result was report as below:

EUT:	smartphone	Model Name :	A70
Temperature:	24.6℃	Relative Humidity:	50.7%
Pressure:	1010hPa	Test Mode:	802.11b CH06
Test Voltage :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	35.749	12.13	13.75	25.88	40.00	-14.12	peak
V	59.232	4.82	13.18	18.00	40.00	-22.00	peak
V	150.011	4.76	14.69	19.45	43.50	-24.05	peak
V	227.691	4.73	11.73	16.46	46.00	-29.54	peak
V	438.655	5.98	16.20	22.18	46.00	-23.82	peak
V	779.607	7.01	22.17	29.18	46.00	-16.82	peak

Remark:

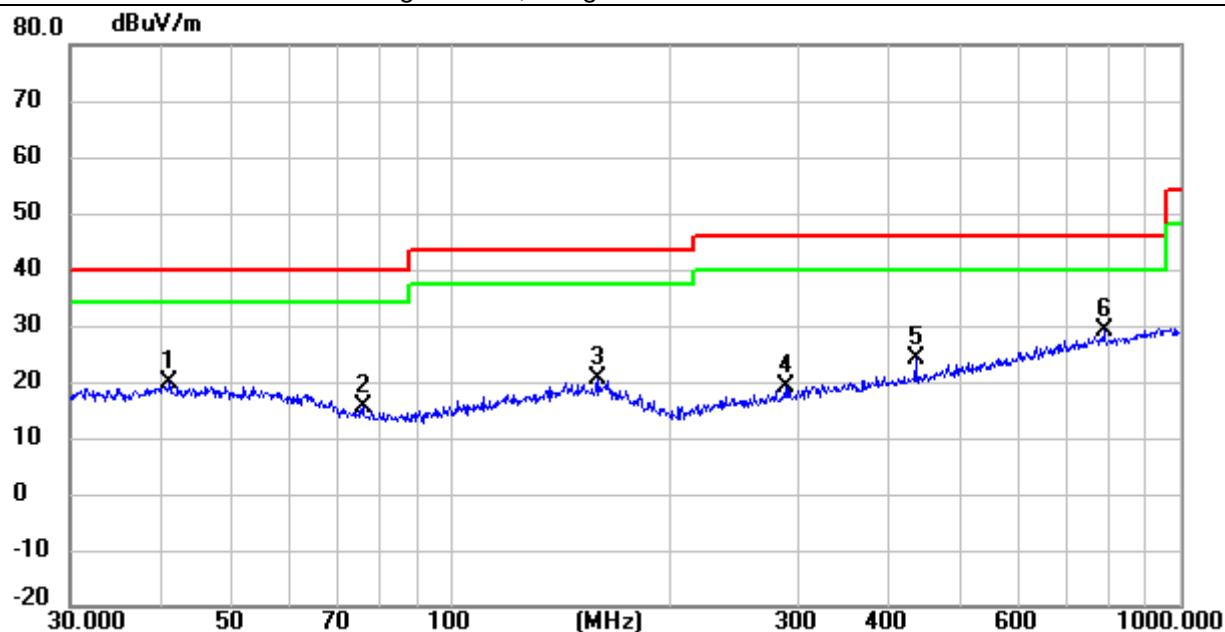
Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	41.132	5.62	14.25	19.87	40.00	-20.13	peak
H	75.711	5.00	10.36	15.36	40.00	-24.64	peak
H	158.668	5.71	14.68	20.39	43.50	-23.11	peak
H	287.990	5.86	13.28	19.14	46.00	-26.86	peak
H	434.065	7.79	16.15	23.94	46.00	-22.06	peak
H	787.851	6.99	22.24	29.23	46.00	-16.77	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



■ Spurious Emission Above 1GHz (1GHz to 18GHz)

EUT:	smartphone	Model No.:	A70
Temperature:	23.5 °C	Relative Humidity:	49.4%
Test Mode:	802.11b/g/n (HT20/HT40)	Test By:	Donjon Huang

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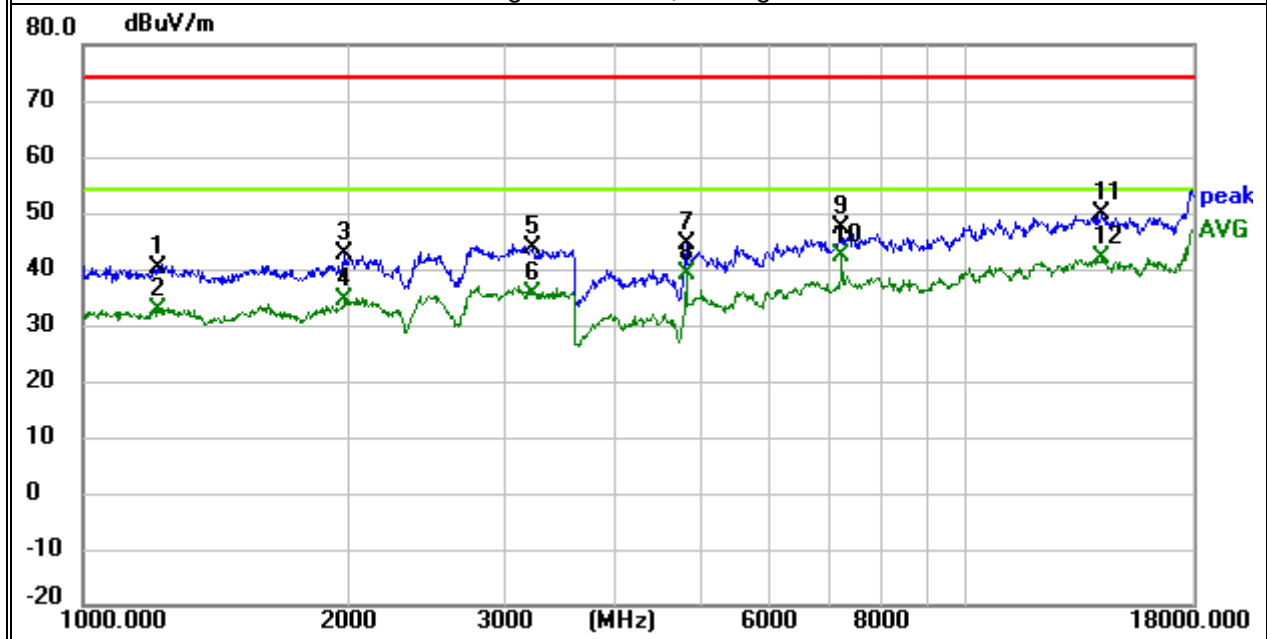
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1220.575	58.42	-18.19	40.23	74.00	-33.77	peak
V	1220.575	50.90	-18.19	32.71	54.00	-21.29	AVG
V	1979.200	56.59	-14.07	42.52	74.00	-31.48	peak
V	1979.200	48.62	-14.07	34.55	54.00	-19.45	AVG
V	3238.475	52.88	-9.03	43.85	74.00	-30.15	peak
V	3238.475	44.41	-9.03	35.38	54.00	-18.62	AVG
V	4824.575	51.51	-6.95	44.56	74.00	-29.44	peak
V	4824.575	46.12	-6.95	39.17	54.00	-14.83	AVG
V	7235.175	49.79	-2.57	47.22	74.00	-26.78	peak
V	7235.175	44.83	-2.57	42.26	54.00	-11.74	AVG
V	14233.225	44.09	5.73	49.82	74.00	-24.18	peak
V	14233.225	36.18	5.73	41.91	54.00	-12.09	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



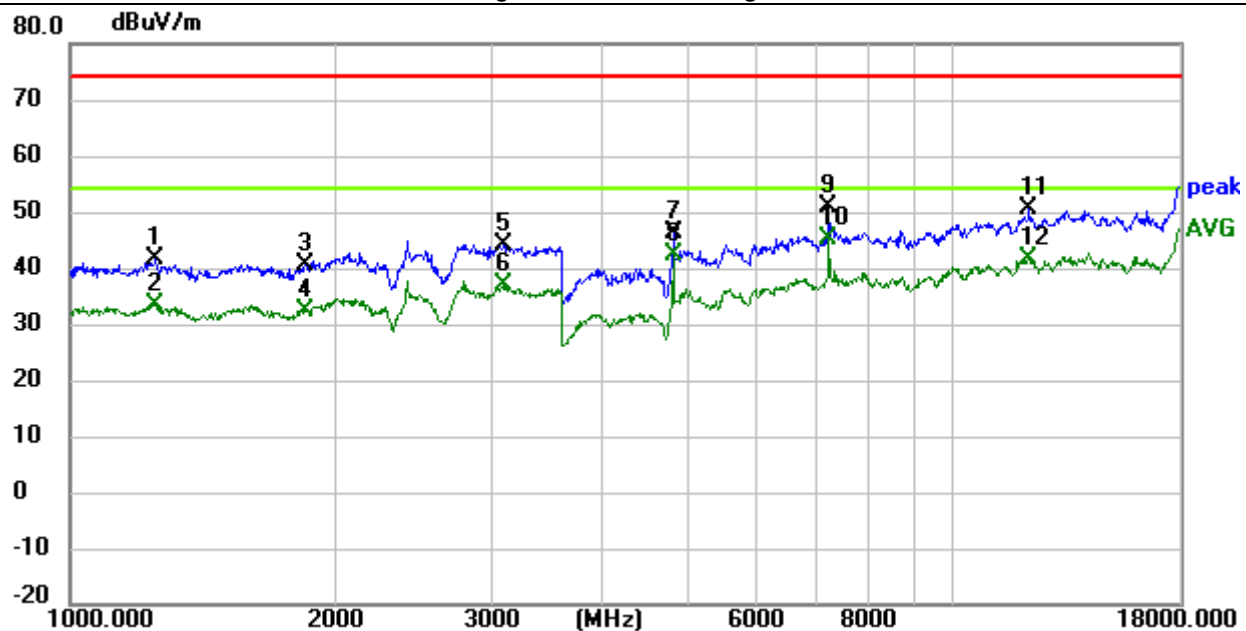
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1251.175	59.31	-17.87	41.44	74.00	-32.56	peak
H	1251.175	51.12	-17.87	33.25	54.00	-20.75	AVG
H	1849.575	55.57	-15.09	40.48	74.00	-33.52	peak
H	1849.575	47.24	-15.09	32.15	54.00	-21.85	AVG
H	3097.800	53.71	-9.55	44.16	74.00	-29.84	peak
H	3097.800	46.35	-9.55	36.80	54.00	-17.20	AVG
H	4824.575	53.29	-6.95	46.34	74.00	-27.66	peak
H	4824.575	49.18	-6.95	42.23	54.00	-11.77	AVG
H	7237.300	53.41	-2.61	50.80	74.00	-23.20	peak
H	7237.300	47.90	-2.61	45.29	54.00	-8.71	AVG
H	12173.675	46.09	4.56	50.65	74.00	-23.35	peak
H	12173.675	37.08	4.56	41.64	54.00	-12.36	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



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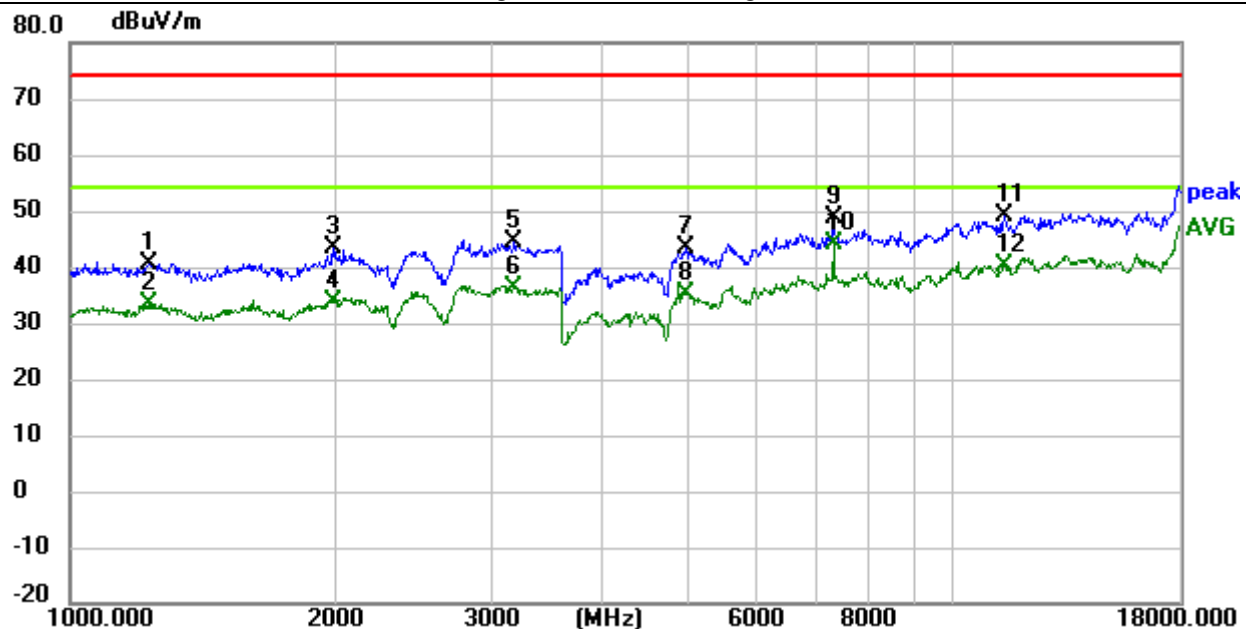
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1231.200	58.53	-18.07	40.46	74.00	-33.54	peak
V	1231.200	51.33	-18.07	33.26	54.00	-20.74	AVG
V	1985.575	57.20	-13.93	43.27	74.00	-30.73	peak
V	1985.575	47.68	-13.93	33.75	54.00	-20.25	AVG
V	3186.625	53.82	-9.30	44.52	74.00	-29.48	peak
V	3186.625	45.53	-9.30	36.23	54.00	-17.77	AVG
V	4984.800	49.54	-6.29	43.25	74.00	-30.75	peak
V	4984.800	41.42	-6.29	35.13	54.00	-18.87	AVG
V	7310.400	51.04	-2.21	48.83	74.00	-25.17	peak
V	7310.400	46.39	-2.21	44.18	54.00	-9.82	AVG
V	11423.125	45.66	3.44	49.10	74.00	-24.90	peak
V	11423.125	36.82	3.44	40.26	54.00	-13.74	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



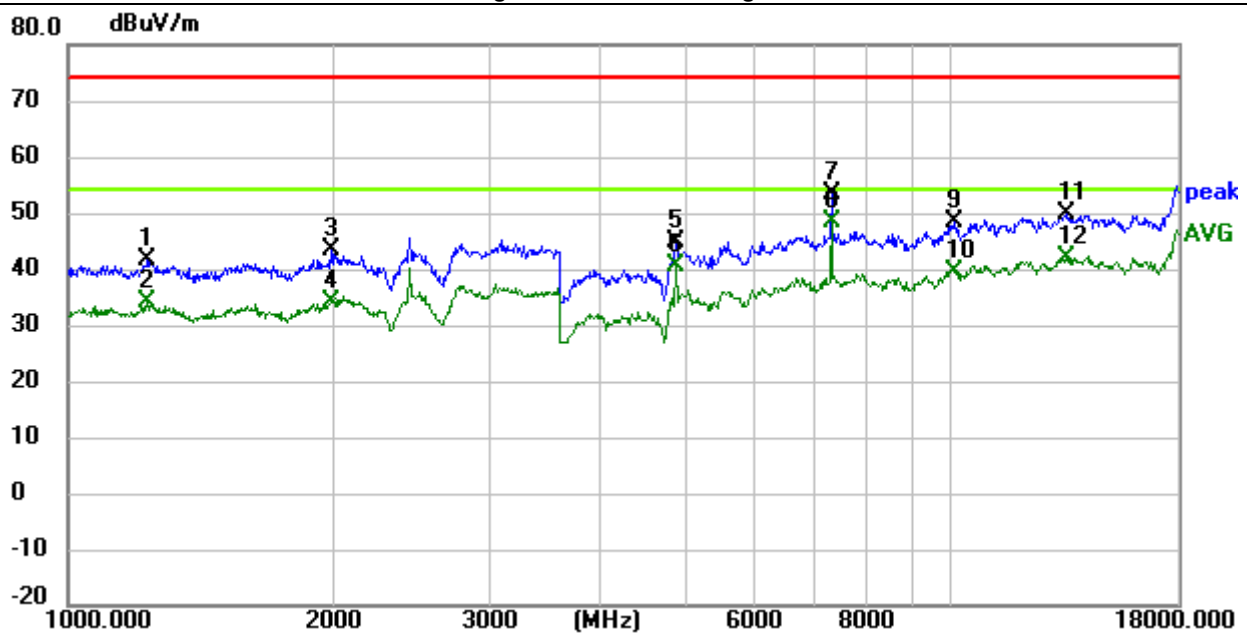
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1233.325	59.69	-18.05	41.64	74.00	-32.36	peak
H	1233.325	52.14	-18.05	34.09	54.00	-19.91	AVG
H	1991.525	57.04	-13.79	43.25	74.00	-30.75	peak
H	1991.525	47.90	-13.79	34.11	54.00	-19.89	AVG
H	4874.300	52.15	-7.16	44.99	74.00	-29.01	peak
H	4874.300	47.87	-7.16	40.71	54.00	-13.29	AVG
H	7310.400	55.47	-2.21	53.26	74.00	-20.74	peak
H	7310.400	50.57	-2.21	48.36	54.00	-5.64	AVG
H	10058.025	46.63	1.74	48.37	74.00	-25.63	peak
H	10058.025	37.73	1.74	39.47	54.00	-14.53	AVG
H	13464.400	44.53	5.37	49.90	74.00	-24.10	peak
H	13464.400	36.48	5.37	41.85	54.00	-12.15	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



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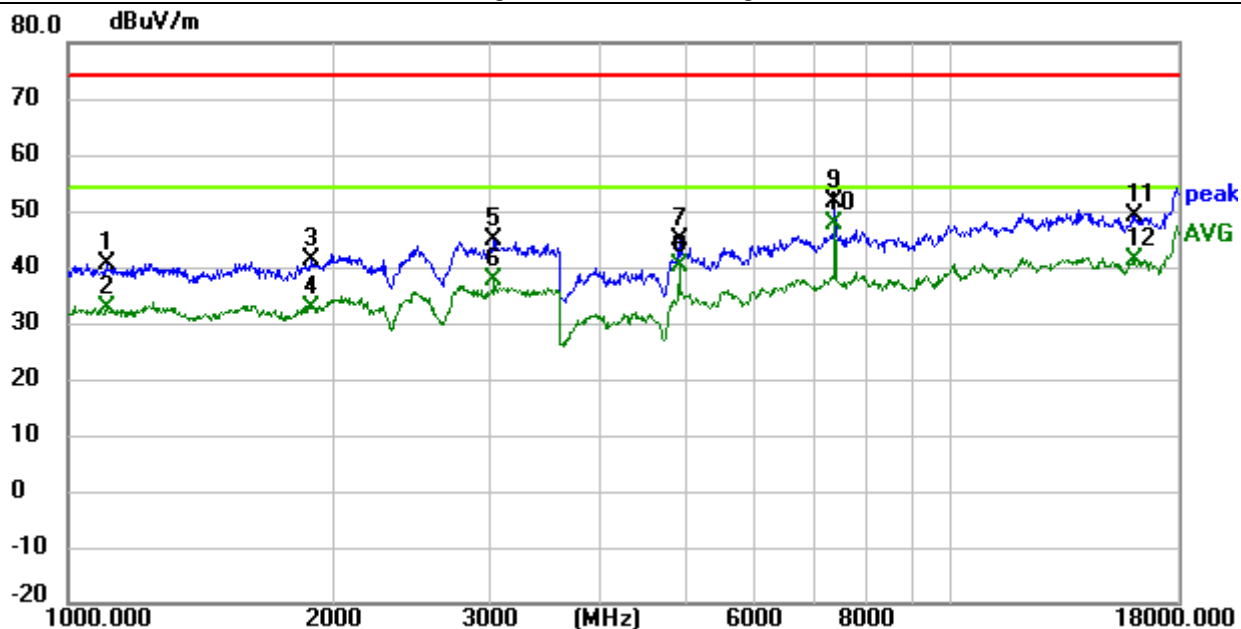
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1107.950	58.69	-18.11	40.58	74.00	-33.42	peak
V	1107.950	50.66	-18.11	32.55	54.00	-21.45	AVG
V	1886.975	56.19	-14.92	41.27	74.00	-32.73	peak
V	1886.975	47.64	-14.92	32.72	54.00	-21.28	AVG
V	3040.850	54.28	-9.58	44.70	74.00	-29.30	peak
V	3040.850	47.14	-9.58	37.56	54.00	-16.44	AVG
V	4924.450	51.72	-6.75	44.97	74.00	-29.03	peak
V	4924.450	46.96	-6.75	40.21	54.00	-13.79	AVG
V	7387.325	54.38	-2.67	51.71	74.00	-22.29	peak
V	7387.325	50.47	-2.67	47.80	54.00	-6.20	AVG
V	16112.575	43.07	6.01	49.08	74.00	-24.92	peak
V	16112.575	35.36	6.01	41.37	54.00	-12.63	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



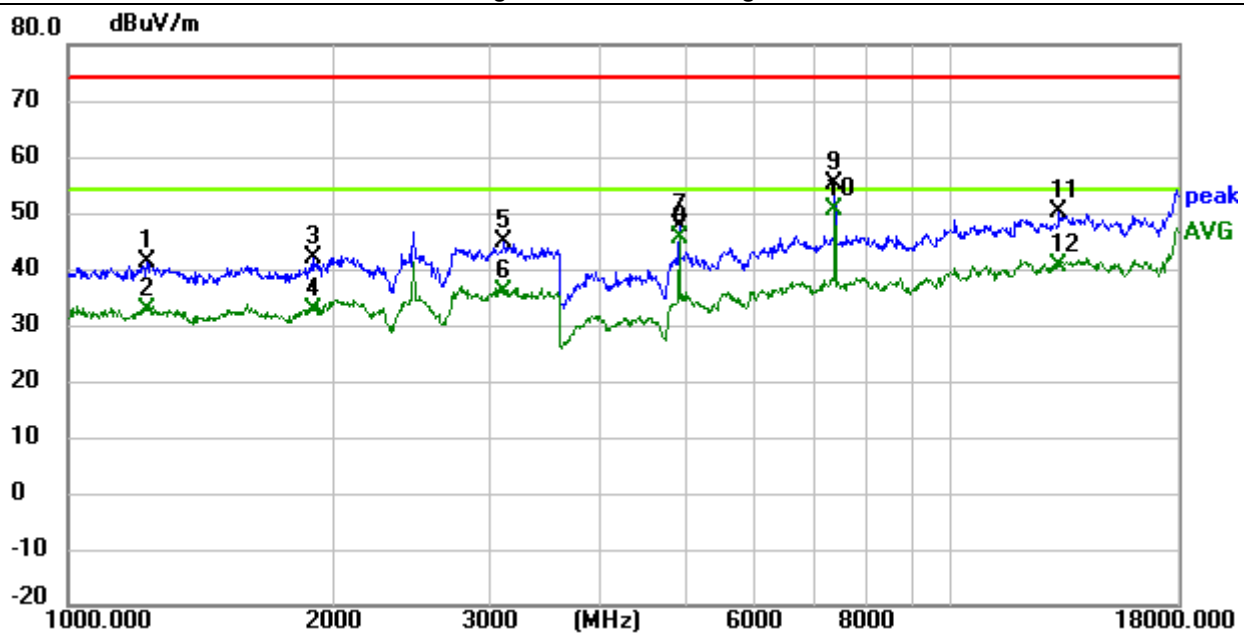
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1229.500	59.42	-18.09	41.33	74.00	-32.67	peak
H	1229.500	50.88	-18.09	32.79	54.00	-21.21	AVG
H	1901.425	56.92	-14.85	42.07	74.00	-31.93	peak
H	1901.425	47.61	-14.85	32.76	54.00	-21.24	AVG
H	3117.775	54.20	-9.52	44.68	74.00	-29.32	peak
H	3117.775	45.53	-9.52	36.01	54.00	-17.99	AVG
H	4924.450	54.44	-6.75	47.69	74.00	-26.31	peak
H	4924.450	52.16	-6.75	45.41	54.00	-8.59	AVG
H	7386.900	57.85	-2.66	55.19	74.00	-18.81	peak
H	7386.900	53.36	-2.66	50.70	54.00	-3.30	AVG
H	13249.775	45.27	4.89	50.16	74.00	-23.84	peak
H	13249.775	35.63	4.89	40.52	54.00	-13.48	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



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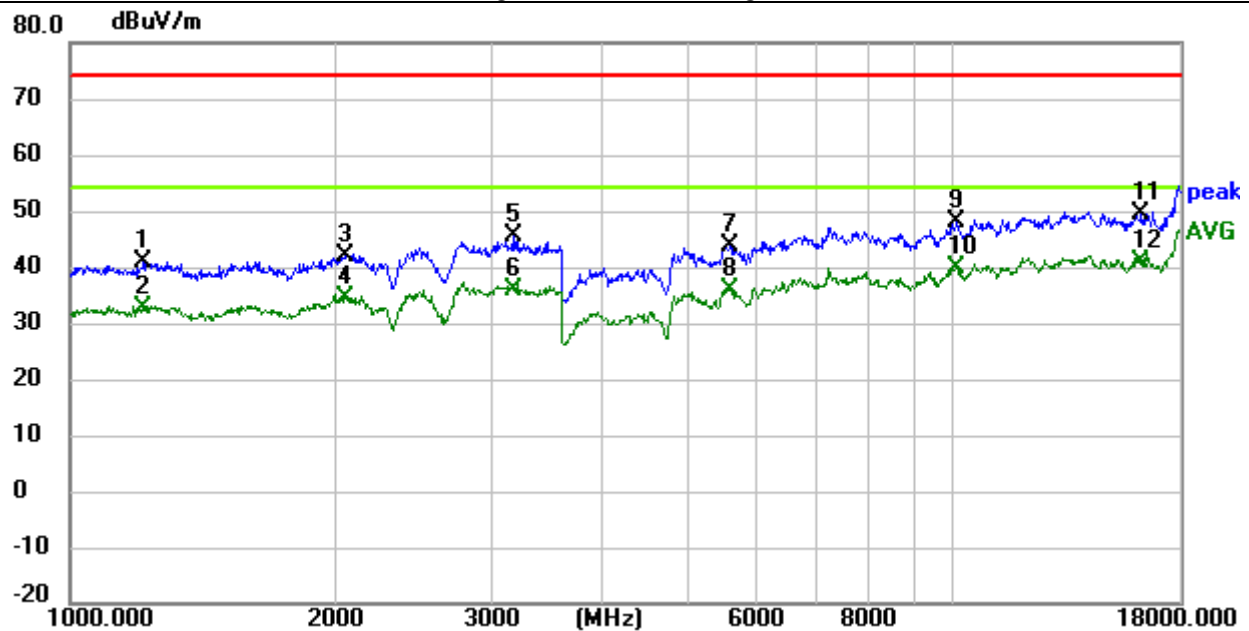
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1211.650	59.20	-18.29	40.91	74.00	-33.09	peak
V	1211.650	51.07	-18.29	32.78	54.00	-21.22	AVG
V	2050.600	54.83	-12.88	41.95	74.00	-32.05	peak
V	2050.600	47.30	-12.88	34.42	54.00	-19.58	AVG
V	3169.200	54.81	-9.39	45.42	74.00	-28.58	peak
V	3169.200	45.32	-9.39	35.93	54.00	-18.07	AVG
V	5592.125	49.45	-5.86	43.59	74.00	-30.41	peak
V	5592.125	41.74	-5.86	35.88	54.00	-18.12	AVG
V	10085.650	45.89	2.02	47.91	74.00	-26.09	peak
V	10085.650	37.80	2.02	39.82	54.00	-14.18	AVG
V	16295.750	43.09	6.40	49.49	74.00	-24.51	peak
V	16295.750	34.63	6.40	41.03	54.00	-12.97	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



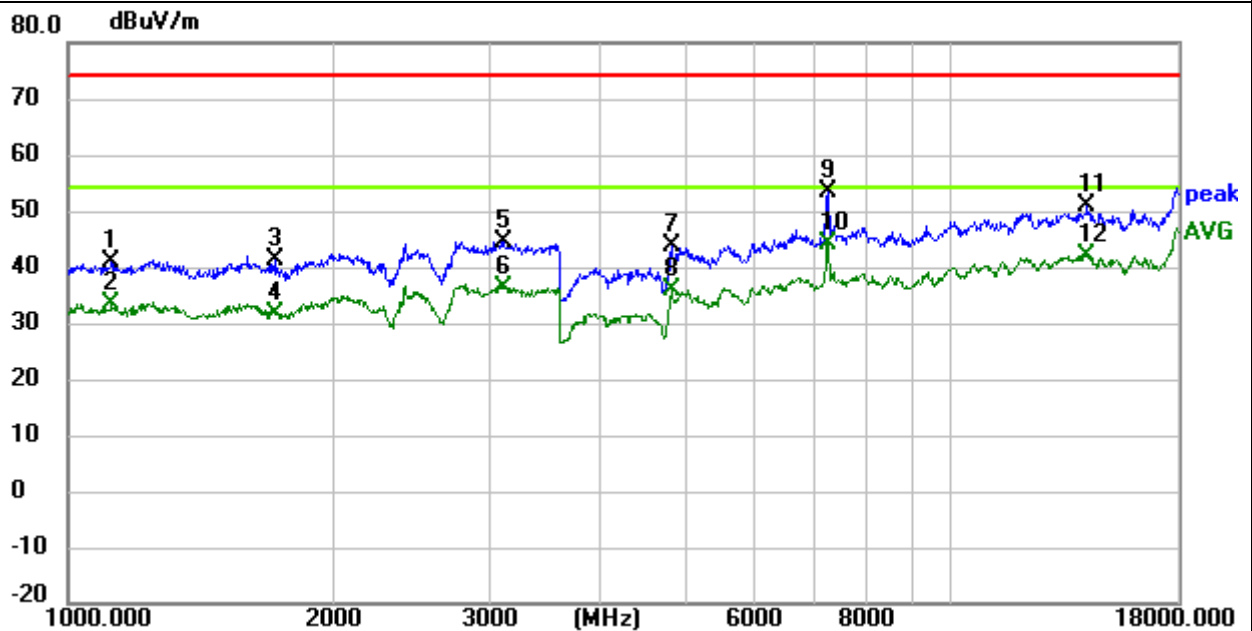
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1120.700	59.24	-18.36	40.88	74.00	-33.12	peak
H	1120.700	51.60	-18.36	33.24	54.00	-20.76	AVG
H	1714.850	57.84	-16.53	41.31	74.00	-32.69	peak
H	1714.850	48.09	-16.53	31.56	54.00	-22.44	AVG
H	3111.400	54.11	-9.54	44.57	74.00	-29.43	peak
H	3111.400	45.74	-9.54	36.20	54.00	-17.80	AVG
H	4824.575	50.53	-6.95	43.58	74.00	-30.42	peak
H	4824.575	42.88	-6.95	35.93	54.00	-18.07	AVG
H	7242.400	56.04	-2.70	53.34	74.00	-20.66	peak
H	7242.400	46.73	-2.70	44.03	54.00	-9.97	AVG
H	14222.175	45.33	5.72	51.05	74.00	-22.95	peak
H	14222.175	36.26	5.72	41.98	54.00	-12.02	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



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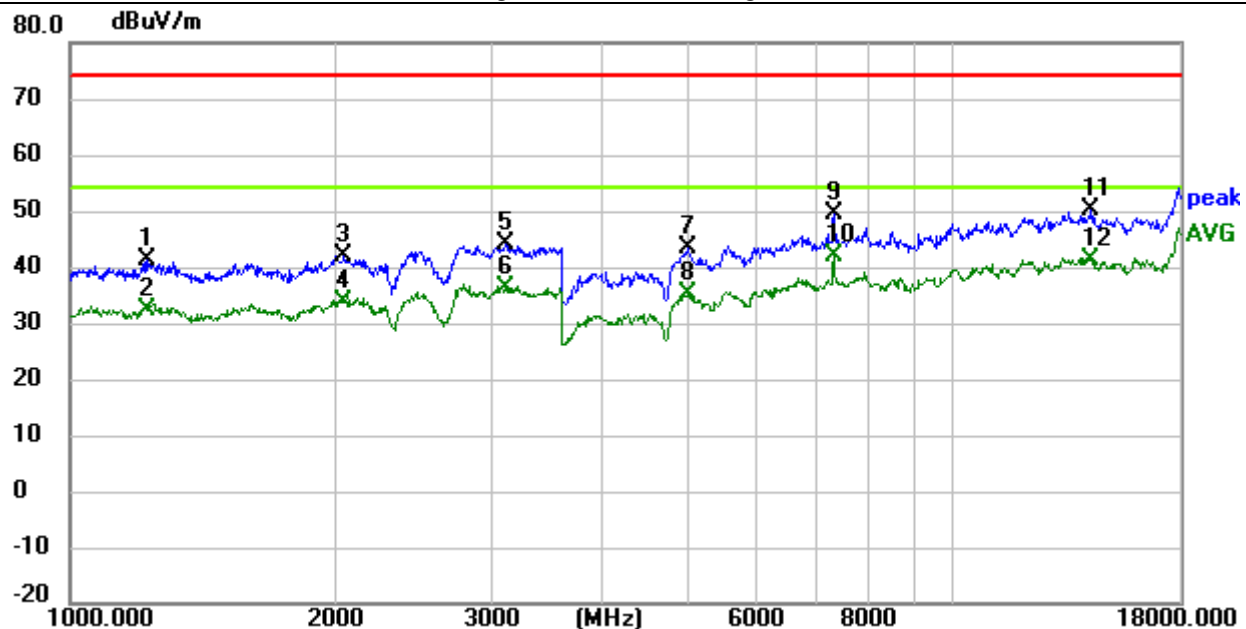
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1226.100	59.21	-18.13	41.08	74.00	-32.92	peak
V	1226.100	50.61	-18.13	32.48	54.00	-21.52	AVG
V	2042.950	54.81	-12.98	41.83	74.00	-32.17	peak
V	2042.950	46.89	-12.98	33.91	54.00	-20.09	AVG
V	3116.075	53.47	-9.53	43.94	74.00	-30.06	peak
V	3116.075	45.81	-9.53	36.28	54.00	-17.72	AVG
V	5013.700	49.59	-6.25	43.34	74.00	-30.66	peak
V	5013.700	41.30	-6.25	35.05	54.00	-18.95	AVG
V	7313.375	51.79	-2.18	49.61	74.00	-24.39	peak
V	7313.375	44.18	-2.18	42.00	54.00	-12.00	AVG
V	14310.150	44.27	5.78	50.05	74.00	-23.95	peak
V	14310.150	35.55	5.78	41.33	54.00	-12.67	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



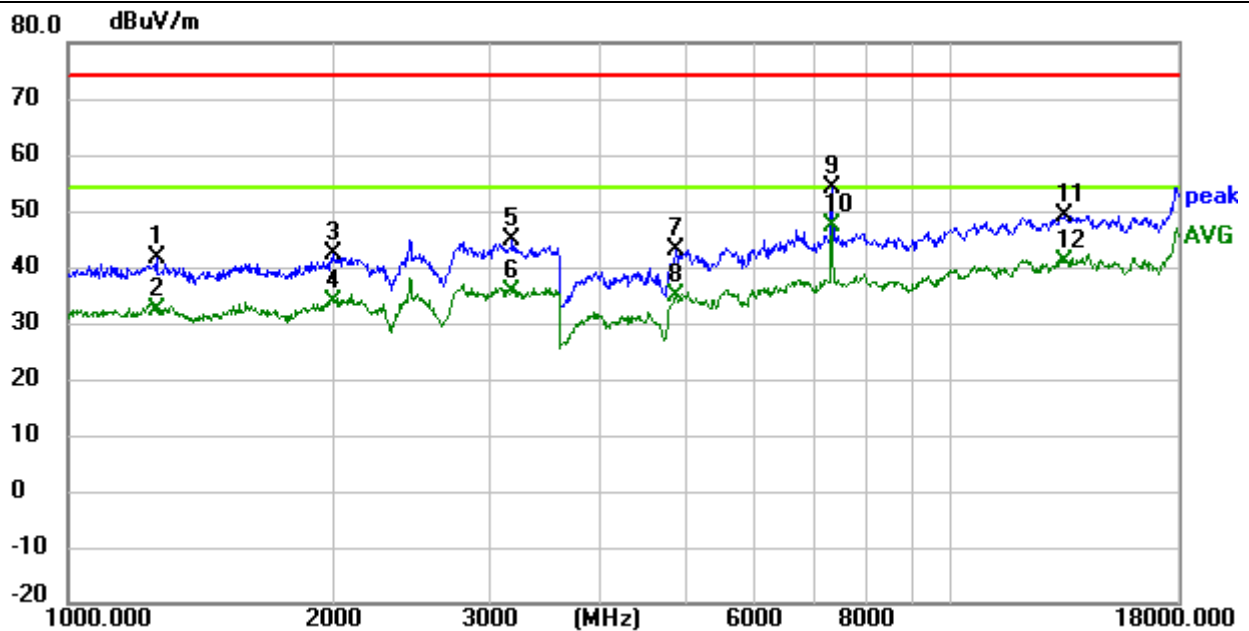
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1260.525	59.34	-17.87	41.47	74.00	-32.53	peak
H	1260.525	50.14	-17.87	32.27	54.00	-21.73	AVG
H	2000.450	55.98	-13.59	42.39	74.00	-31.61	peak
H	2000.450	47.35	-13.59	33.76	54.00	-20.24	AVG
H	3185.350	53.95	-9.30	44.65	74.00	-29.35	peak
H	3185.350	44.82	-9.30	35.52	54.00	-18.48	AVG
H	4881.100	50.38	-7.24	43.14	74.00	-30.86	peak
H	4881.100	42.10	-7.24	34.86	54.00	-19.14	AVG
H	7312.525	56.24	-2.18	54.06	74.00	-19.94	peak
H	7312.525	49.38	-2.18	47.20	54.00	-6.80	AVG
H	13405.750	44.09	5.09	49.18	74.00	-24.82	peak
H	13405.750	35.66	5.09	40.75	54.00	-13.25	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

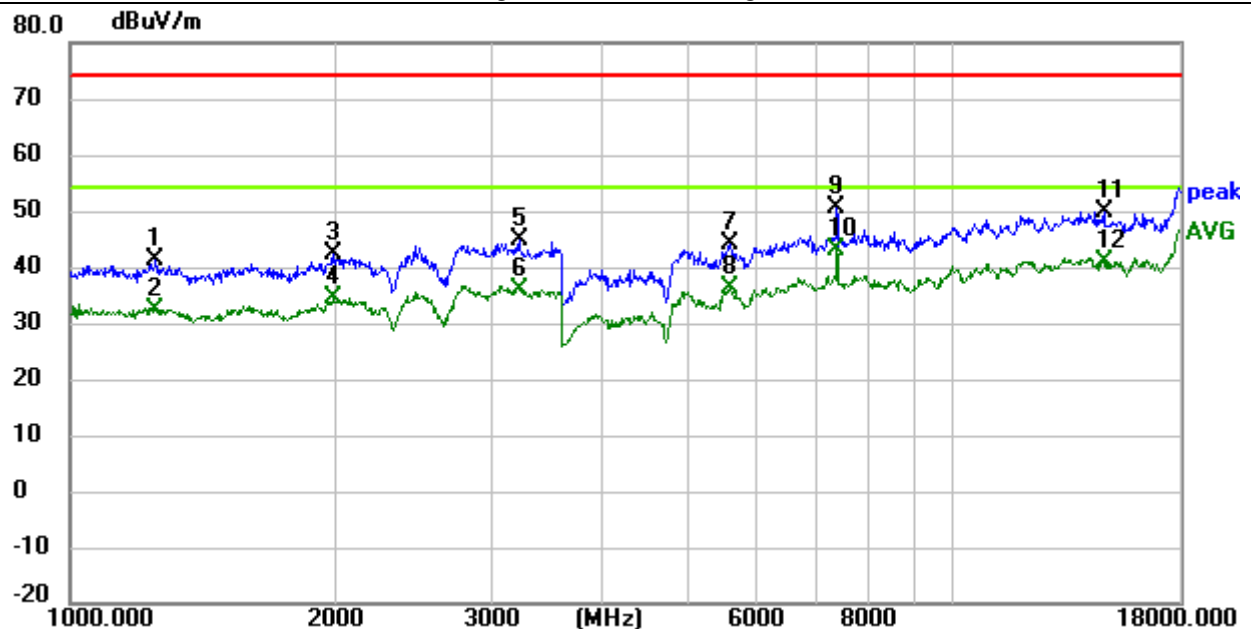
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1250.325	59.07	-17.87	41.20	74.00	-32.80	peak
V	1250.325	50.28	-17.87	32.41	54.00	-21.59	AVG
V	1993.650	56.14	-13.74	42.40	74.00	-31.60	peak
V	1993.650	48.04	-13.74	34.30	54.00	-19.70	AVG
V	3229.550	53.76	-9.07	44.69	74.00	-29.31	peak
V	3229.550	45.04	-9.07	35.97	54.00	-18.03	AVG
V	5575.975	49.78	-5.79	43.99	74.00	-30.01	peak
V	5575.975	41.94	-5.79	36.15	54.00	-17.85	AVG
V	7387.325	53.09	-2.67	50.42	74.00	-23.58	peak
V	7387.325	45.65	-2.67	42.98	54.00	-11.02	AVG
V	14792.525	44.64	5.27	49.91	74.00	-24.09	peak
V	14792.525	35.64	5.27	40.91	54.00	-13.09	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



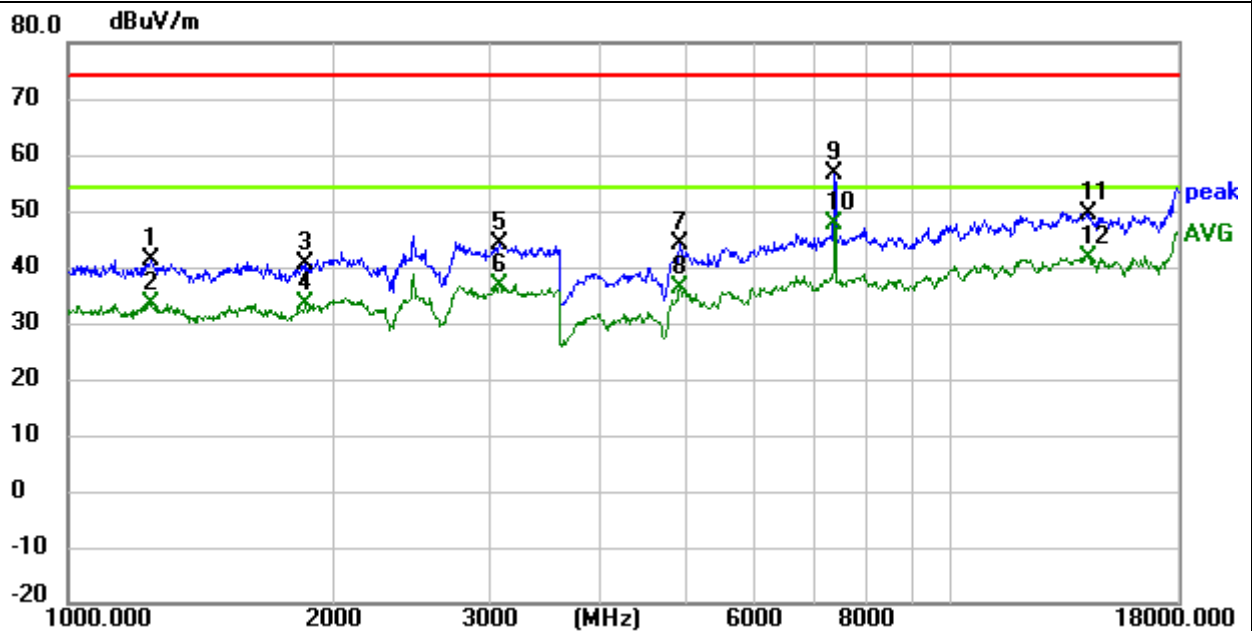
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1242.675	59.19	-17.95	41.24	74.00	-32.76	peak
H	1242.675	51.23	-17.95	33.28	54.00	-20.72	AVG
H	1858.500	55.66	-15.04	40.62	74.00	-33.38	peak
H	1858.500	48.38	-15.04	33.34	54.00	-20.66	AVG
H	3083.350	53.68	-9.56	44.12	74.00	-29.88	peak
H	3083.350	46.05	-9.56	36.49	54.00	-17.51	AVG
H	4931.250	50.53	-6.55	43.98	74.00	-30.02	peak
H	4931.250	42.85	-6.55	36.30	54.00	-17.70	AVG
H	7388.600	59.33	-2.70	56.63	74.00	-17.37	peak
H	7388.600	50.28	-2.70	47.58	54.00	-6.42	AVG
H	14303.350	43.80	5.80	49.60	74.00	-24.40	peak
H	14303.350	35.83	5.80	41.63	54.00	-12.37	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 n20
2412

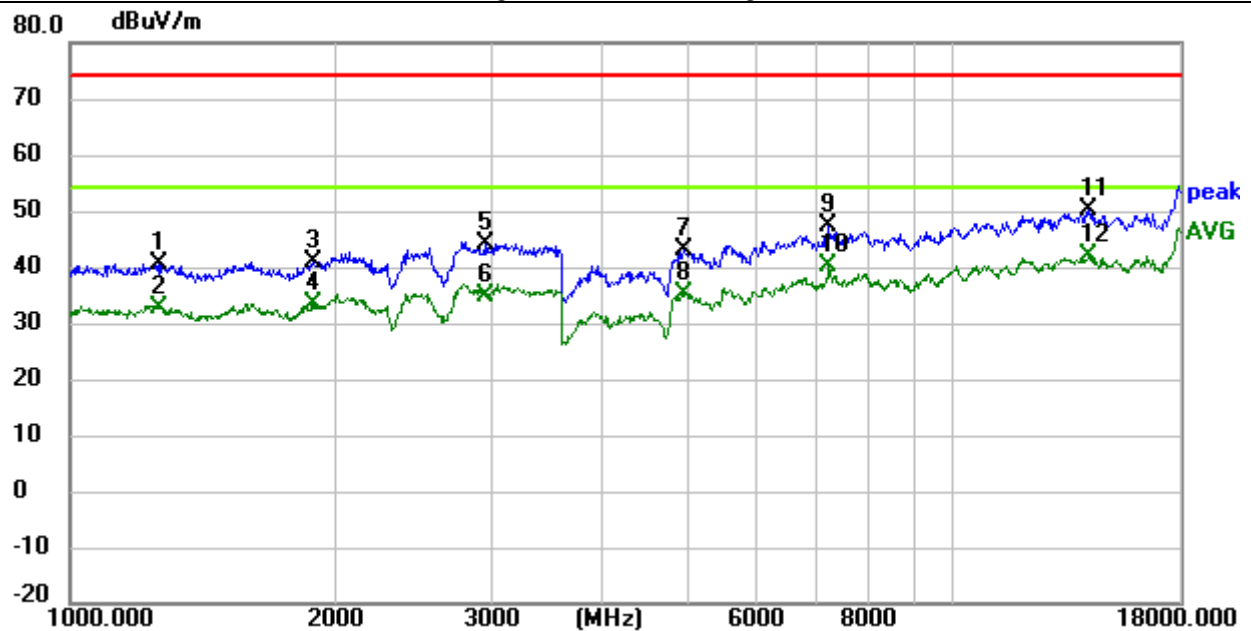
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
V	1263.500	58.54	-17.87	40.67	74.00	-33.33	peak
V	1263.500	50.63	-17.87	32.76	54.00	-21.24	AVG
V	1888.675	55.84	-14.89	40.95	74.00	-33.05	peak
V	1888.675	48.40	-14.89	33.51	54.00	-20.49	AVG
V	2952.025	54.20	-10.05	44.15	74.00	-29.85	peak
V	2952.025	44.95	-10.05	34.90	54.00	-19.10	AVG
V	4968.650	49.03	-6.15	42.88	74.00	-31.12	peak
V	4968.650	41.19	-6.15	35.04	54.00	-18.96	AVG
V	7230.500	49.87	-2.50	47.37	74.00	-26.63	peak
V	7230.500	42.52	-2.50	40.02	54.00	-13.98	AVG
V	14207.725	44.31	5.70	50.01	74.00	-23.99	peak
V	14207.725	36.11	5.70	41.81	54.00	-12.19	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



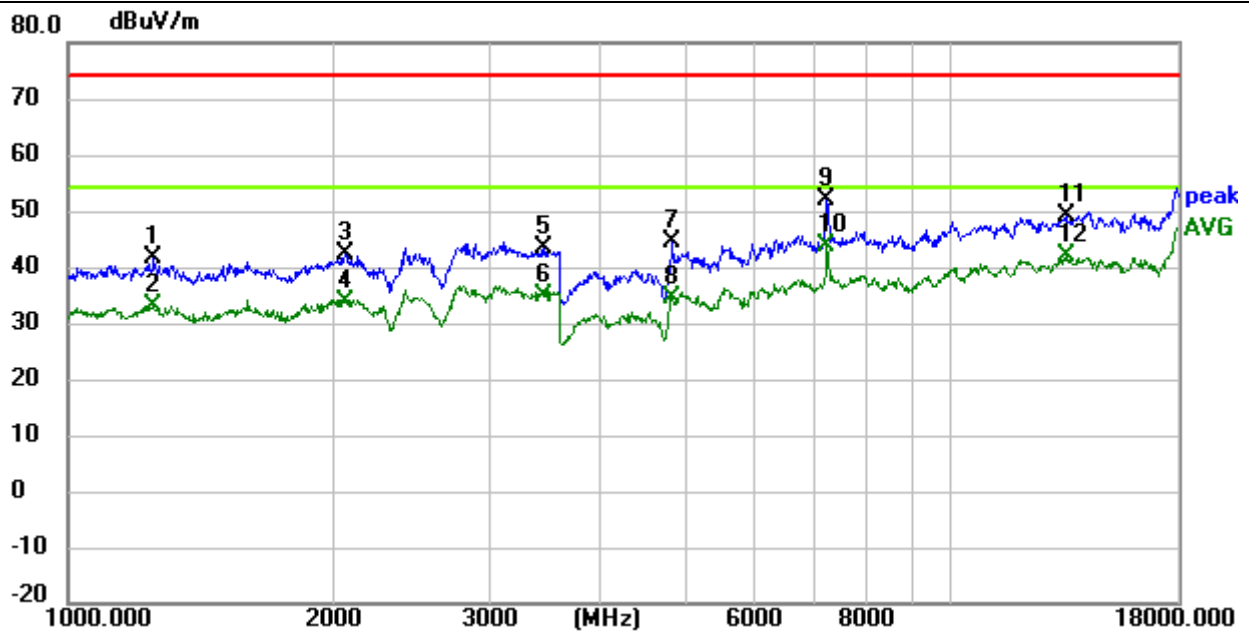
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1249.475	59.32	-17.88	41.44	74.00	-32.56	peak
H	1249.475	51.04	-17.88	33.16	54.00	-20.84	AVG
H	2060.375	55.05	-12.80	42.25	74.00	-31.75	peak
H	2060.375	46.67	-12.80	33.87	54.00	-20.13	AVG
H	3449.700	52.85	-9.52	43.33	74.00	-30.67	peak
H	3449.700	44.36	-9.52	34.84	54.00	-19.16	AVG
H	4832.225	51.47	-6.92	44.55	74.00	-29.45	peak
H	4832.225	41.45	-6.92	34.53	54.00	-19.47	AVG
H	7237.300	54.52	-2.61	51.91	74.00	-22.09	peak
H	7237.300	46.53	-2.61	43.92	54.00	-10.08	AVG
H	13444.000	43.92	5.28	49.20	74.00	-24.80	peak
H	13444.000	36.59	5.28	41.87	54.00	-12.13	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2437

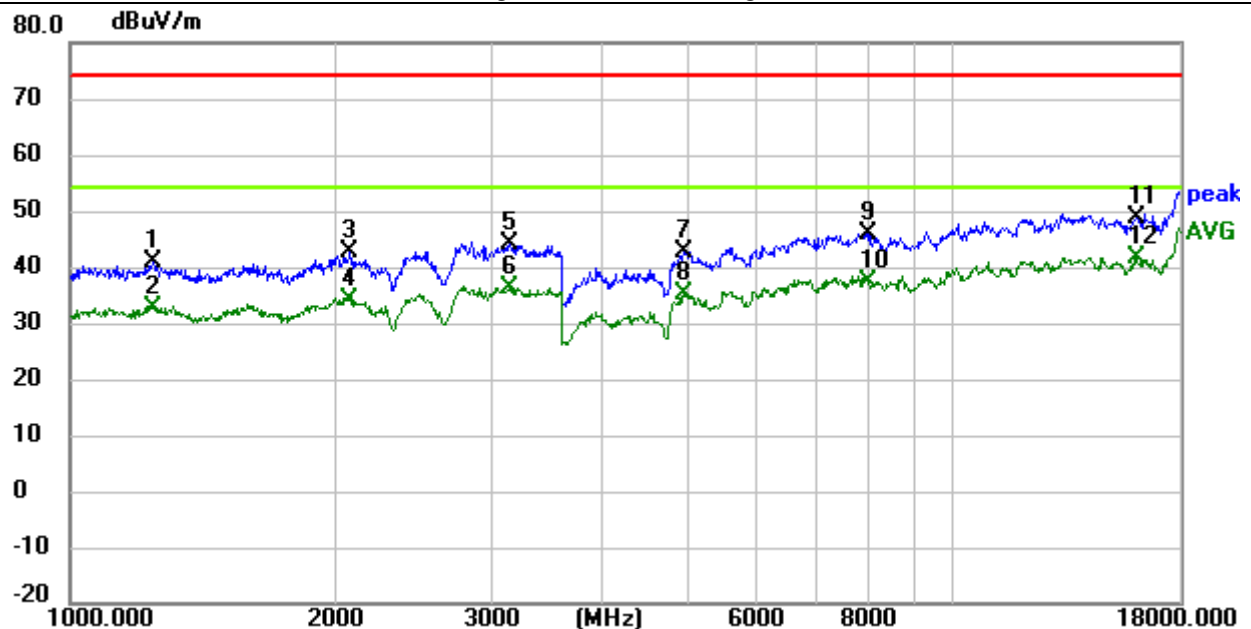
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1245.650	58.65	-17.91	40.74	74.00	-33.26	peak
V	1245.650	50.43	-17.91	32.52	54.00	-21.48	AVG
V	2073.550	55.46	-12.69	42.77	74.00	-31.23	peak
V	2073.550	46.82	-12.69	34.13	54.00	-19.87	AVG
V	3150.925	53.61	-9.48	44.13	74.00	-29.87	peak
V	3150.925	45.68	-9.48	36.20	54.00	-17.80	AVG
V	4947.400	48.91	-6.07	42.84	74.00	-31.16	peak
V	4947.400	41.18	-6.07	35.11	54.00	-18.89	AVG
V	8008.250	47.75	-1.77	45.98	74.00	-28.02	peak
V	8008.250	39.22	-1.77	37.45	54.00	-16.55	AVG
V	16107.900	42.66	6.01	48.67	74.00	-25.33	peak
V	16107.900	35.73	6.01	41.74	54.00	-12.26	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



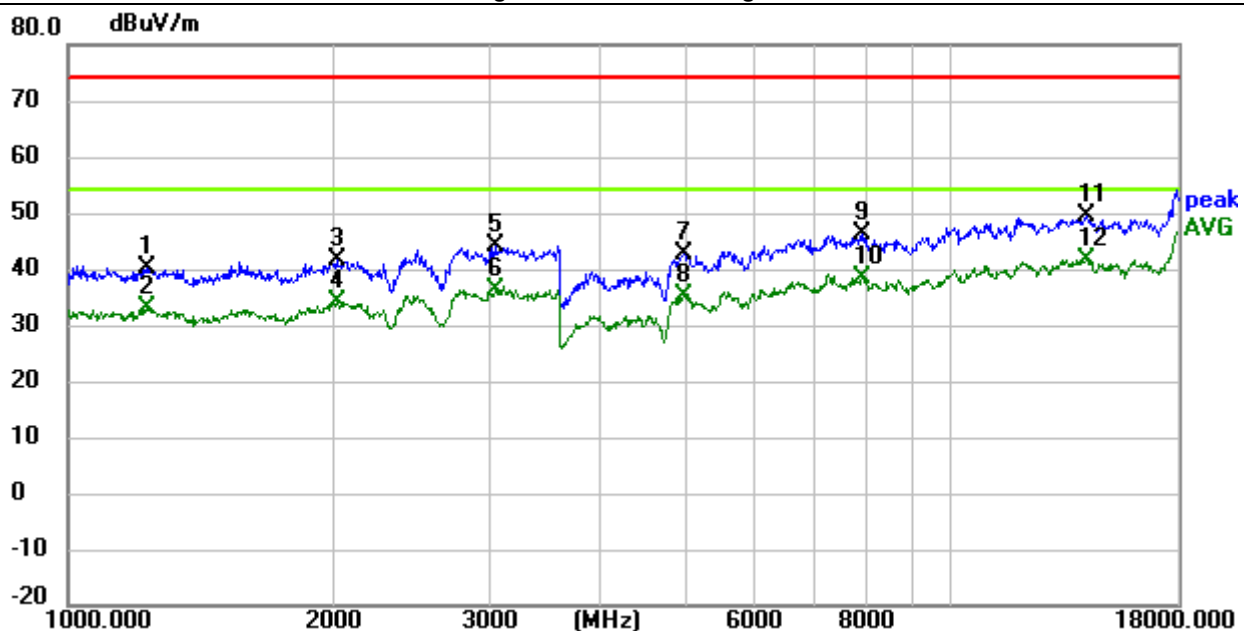
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1231.200	58.35	-18.07	40.28	74.00	-33.72	peak
H	1231.200	51.07	-18.07	33.00	54.00	-21.00	AVG
H	2012.775	55.00	-13.42	41.58	74.00	-32.42	peak
H	2012.775	47.35	-13.42	33.93	54.00	-20.07	AVG
H	3057.000	53.69	-9.60	44.09	74.00	-29.91	peak
H	3057.000	45.69	-9.60	36.09	54.00	-17.91	AVG
H	4975.450	48.98	-6.20	42.78	74.00	-31.22	peak
H	4975.450	41.41	-6.20	35.21	54.00	-18.79	AVG
H	7938.550	47.46	-1.35	46.11	74.00	-27.89	peak
H	7938.550	39.65	-1.35	38.30	54.00	-15.70	AVG
H	14175.425	44.03	5.55	49.58	74.00	-24.42	peak
H	14175.425	35.96	5.55	41.51	54.00	-12.49	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

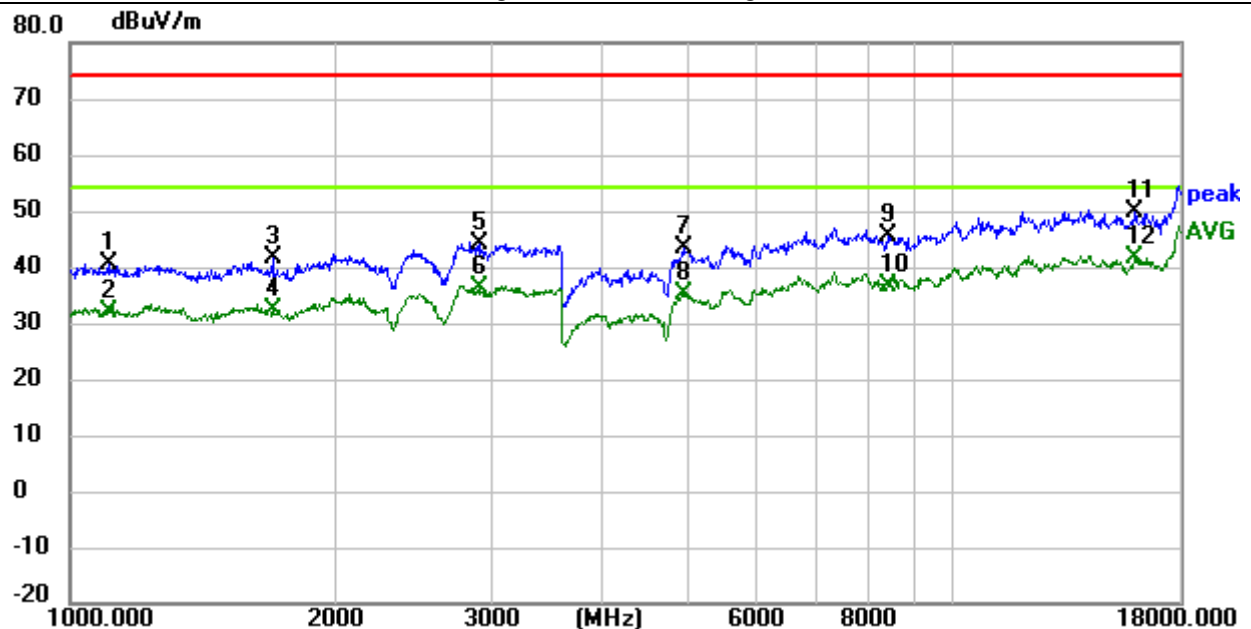
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1109.650	58.54	-18.14	40.40	74.00	-33.60	peak
V	1109.650	50.07	-18.14	31.93	54.00	-22.07	AVG
V	1700.400	57.96	-16.45	41.51	74.00	-32.49	peak
V	1700.400	48.64	-16.45	32.19	54.00	-21.81	AVG
V	2920.150	54.08	-10.02	44.06	74.00	-29.94	peak
V	2920.150	46.24	-10.02	36.22	54.00	-17.78	AVG
V	4952.925	49.32	-6.02	43.30	74.00	-30.70	peak
V	4952.925	41.08	-6.02	35.06	54.00	-18.94	AVG
V	8422.200	47.11	-1.46	45.65	74.00	-28.35	peak
V	8422.200	37.93	-1.46	36.47	54.00	-17.53	AVG
V	16071.775	43.96	5.82	49.78	74.00	-24.22	peak
V	16071.775	35.61	5.82	41.43	54.00	-12.57	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



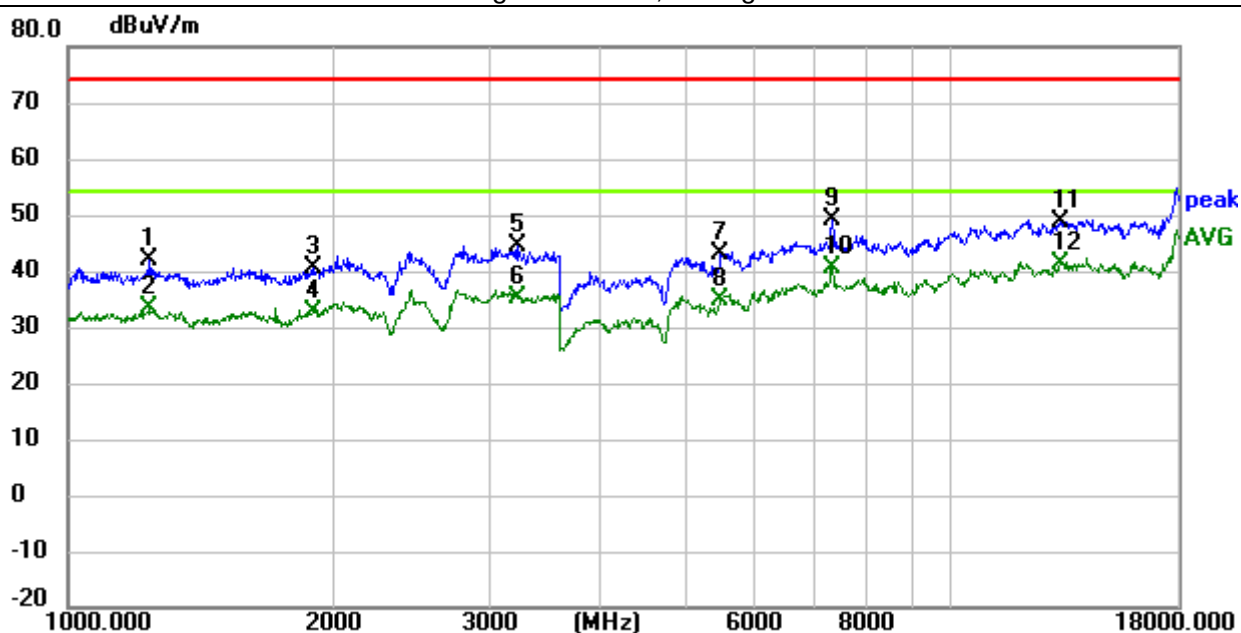
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
H	1240.550	60.09	-17.97	42.12	74.00	-31.88	peak
H	1240.550	51.32	-17.97	33.35	54.00	-20.65	AVG
H	1901.000	55.27	-14.85	40.42	74.00	-33.58	peak
H	1901.000	47.67	-14.85	32.82	54.00	-21.18	AVG
H	3239.750	53.34	-9.02	44.32	74.00	-29.68	peak
H	3239.750	44.35	-9.02	35.33	54.00	-18.67	AVG
H	5487.150	48.37	-5.50	42.87	74.00	-31.13	peak
H	5487.150	40.30	-5.50	34.80	54.00	-19.20	AVG
H	7331.225	51.11	-1.98	49.13	74.00	-24.87	peak
H	7331.225	42.64	-1.98	40.66	54.00	-13.34	AVG
H	13288.875	43.65	5.19	48.84	74.00	-25.16	peak
H	13288.875	36.22	5.19	41.41	54.00	-12.59	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 n40
2422

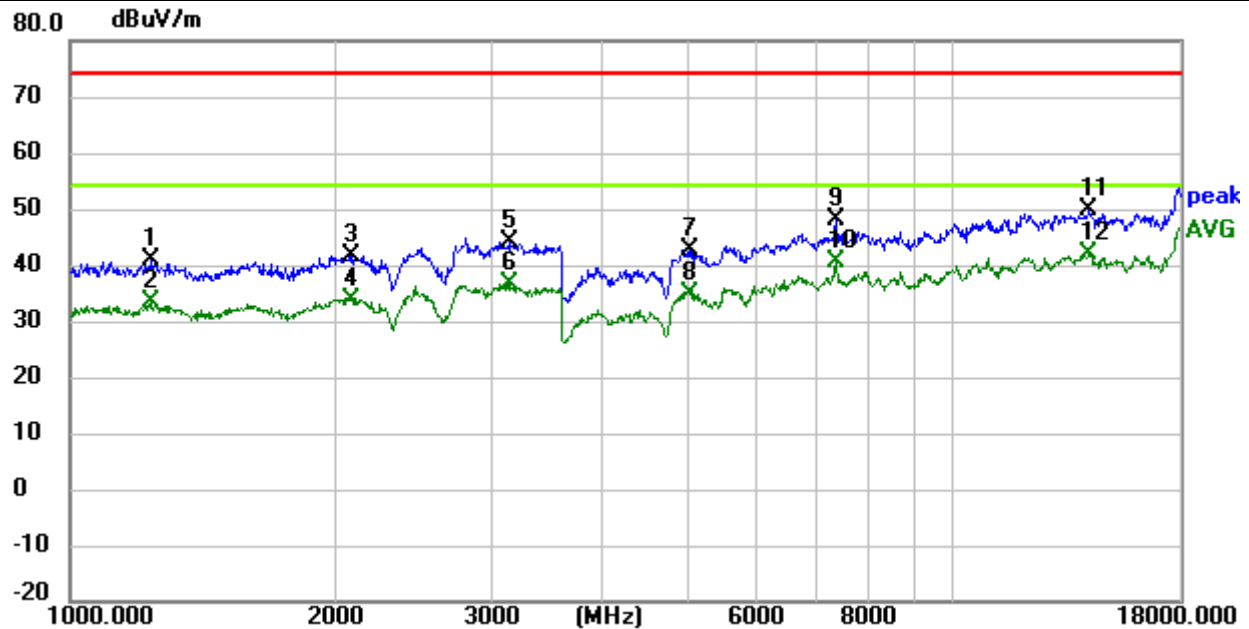
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1239.275	58.86	-17.99	40.87	74.00	-33.13	peak
V	1239.275	51.42	-17.99	33.43	54.00	-20.57	AVG
V	2079.500	54.41	-12.65	41.76	74.00	-32.24	peak
V	2079.500	46.29	-12.65	33.64	54.00	-20.36	AVG
V	3148.375	53.58	-9.48	44.10	74.00	-29.90	peak
V	3148.375	46.16	-9.48	36.68	54.00	-17.32	AVG
V	5027.725	48.73	-6.08	42.65	74.00	-31.35	peak
V	5027.725	40.85	-6.08	34.77	54.00	-19.23	AVG
V	7365.225	50.30	-2.15	48.15	74.00	-25.85	peak
V	7365.225	42.54	-2.15	40.39	54.00	-13.61	AVG
V	14240.875	44.11	5.74	49.85	74.00	-24.15	peak
V	14240.875	36.26	5.74	42.00	54.00	-12.00	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



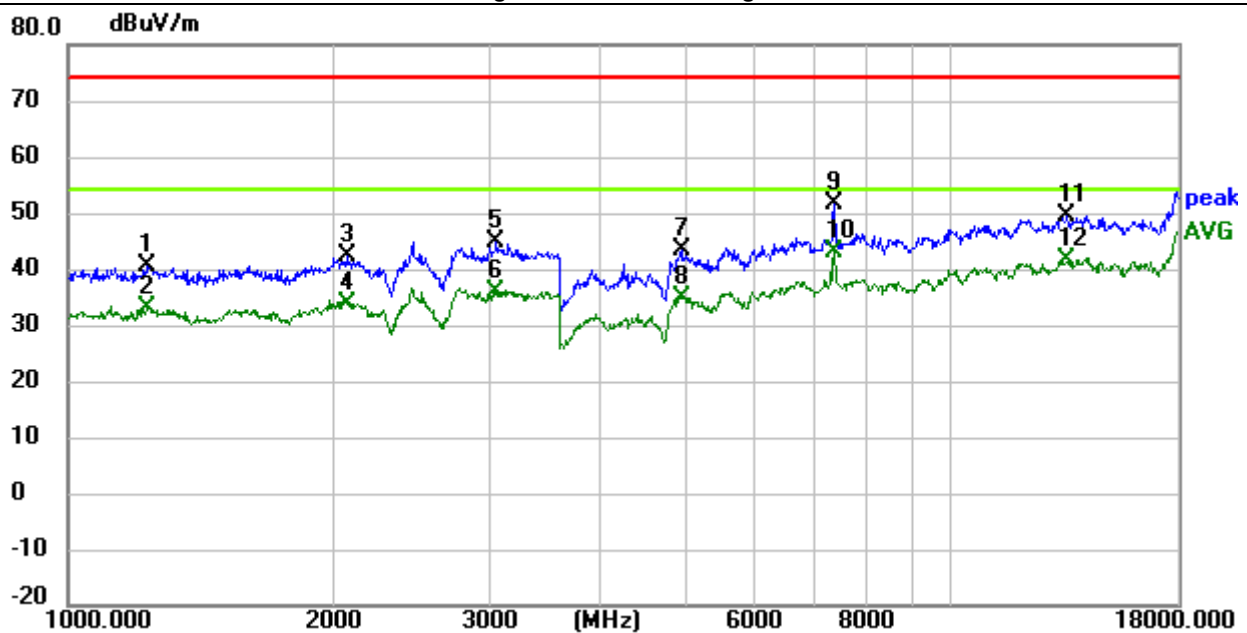
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1234.175	58.63	-18.05	40.58	74.00	-33.42	peak
H	1234.175	51.08	-18.05	33.03	54.00	-20.97	AVG
H	2070.150	55.05	-12.72	42.33	74.00	-31.67	peak
H	2070.150	46.45	-12.72	33.73	54.00	-20.27	AVG
H	3054.025	54.28	-9.60	44.68	74.00	-29.32	peak
H	3054.025	45.45	-9.60	35.85	54.00	-18.15	AVG
H	4959.300	49.31	-6.06	43.25	74.00	-30.75	peak
H	4959.300	40.74	-6.06	34.68	54.00	-19.32	AVG
H	7359.700	53.47	-2.01	51.46	74.00	-22.54	peak
H	7359.700	44.87	-2.01	42.86	54.00	-11.14	AVG
H	13489.050	44.01	5.50	49.51	74.00	-24.49	peak
H	13489.050	35.93	5.50	41.43	54.00	-12.57	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2437

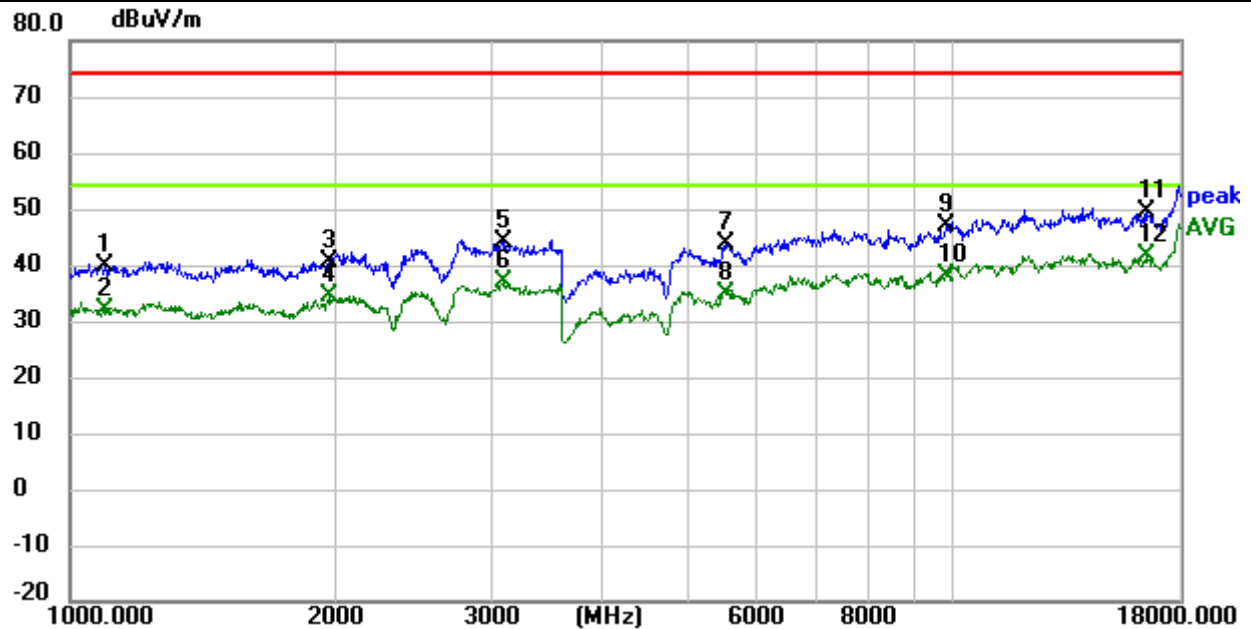
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1099.025	57.87	-17.96	39.91	74.00	-34.09	peak
V	1099.025	49.83	-17.96	31.87	54.00	-22.13	AVG
V	1970.275	54.96	-14.26	40.70	74.00	-33.30	peak
V	1970.275	48.60	-14.26	34.34	54.00	-19.66	AVG
V	3087.175	53.80	-9.57	44.23	74.00	-29.77	peak
V	3087.175	46.66	-9.57	37.09	54.00	-16.91	AVG
V	5528.800	49.38	-5.52	43.86	74.00	-30.14	peak
V	5528.800	40.44	-5.52	34.92	54.00	-19.08	AVG
V	9806.850	46.04	0.79	46.83	74.00	-27.17	peak
V	9806.850	37.13	0.79	37.92	54.00	-16.08	AVG
V	16569.025	43.17	6.46	49.63	74.00	-24.37	peak
V	16569.025	35.01	6.46	41.47	54.00	-12.53	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



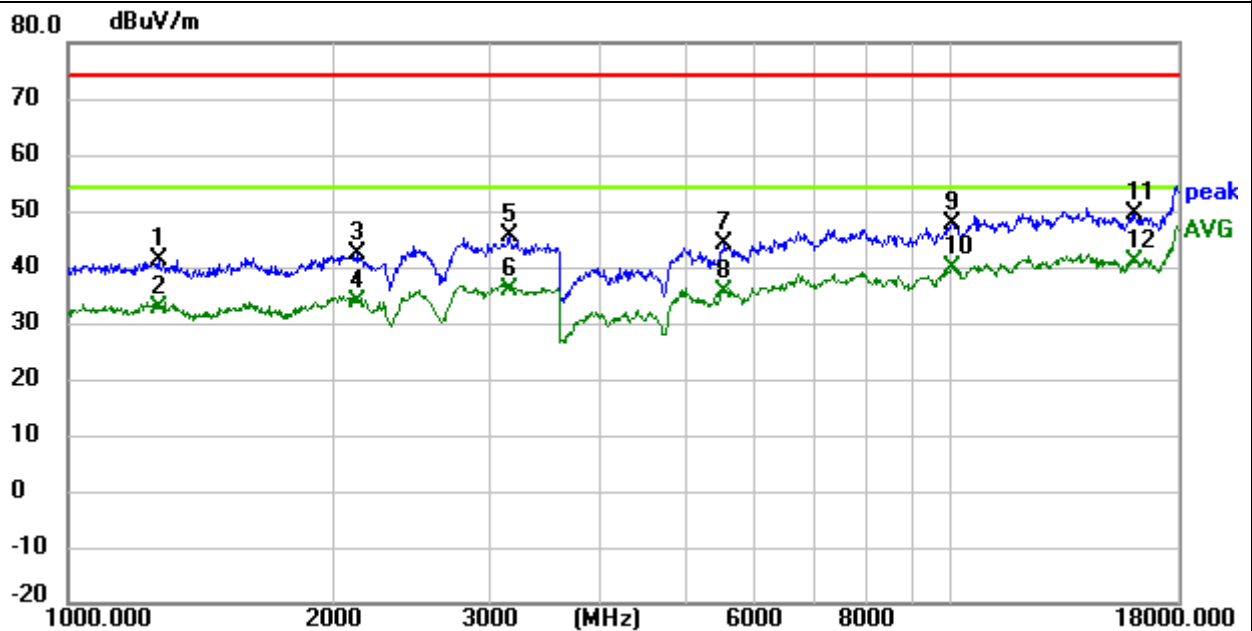
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
H	1270.300	59.05	-17.86	41.19	74.00	-32.81	peak
H	1270.300	50.44	-17.86	32.58	54.00	-21.42	AVG
H	2132.200	54.84	-12.67	42.17	74.00	-31.83	peak
H	2132.200	46.44	-12.67	33.77	54.00	-20.23	AVG
H	3163.675	55.01	-9.42	45.59	74.00	-28.41	peak
H	3163.675	45.42	-9.42	36.00	54.00	-18.00	AVG
H	5538.575	49.70	-5.59	44.11	74.00	-29.89	peak
H	5538.575	41.28	-5.59	35.69	54.00	-18.31	AVG
H	10018.075	46.36	1.32	47.68	74.00	-26.32	peak
H	10018.075	38.52	1.32	39.84	54.00	-14.16	AVG
H	16134.250	43.46	6.03	49.49	74.00	-24.51	peak
H	16134.250	35.00	6.03	41.03	54.00	-12.97	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2452

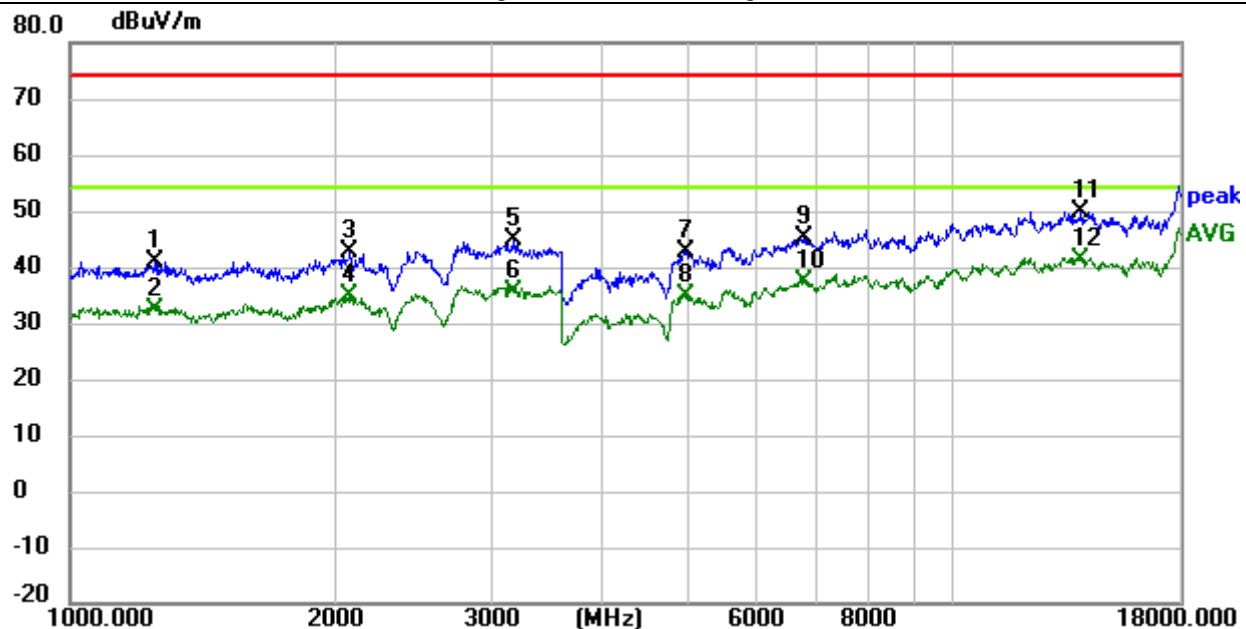
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1248.200	58.86	-17.89	40.97	74.00	-33.03	peak
V	1248.200	50.14	-17.89	32.25	54.00	-21.75	AVG
V	2077.375	55.52	-12.67	42.85	74.00	-31.15	peak
V	2077.375	47.37	-12.67	34.70	54.00	-19.30	AVG
V	3168.775	54.07	-9.40	44.67	74.00	-29.33	peak
V	3168.775	45.05	-9.40	35.65	54.00	-18.35	AVG
V	4983.950	49.06	-6.28	42.78	74.00	-31.22	peak
V	4983.950	41.01	-6.28	34.73	54.00	-19.27	AVG
V	6774.900	48.53	-3.47	45.06	74.00	-28.94	peak
V	6774.900	40.79	-3.47	37.32	54.00	-16.68	AVG
V	13946.350	44.37	5.47	49.84	74.00	-24.16	peak
V	13946.350	35.80	5.47	41.27	54.00	-12.73	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



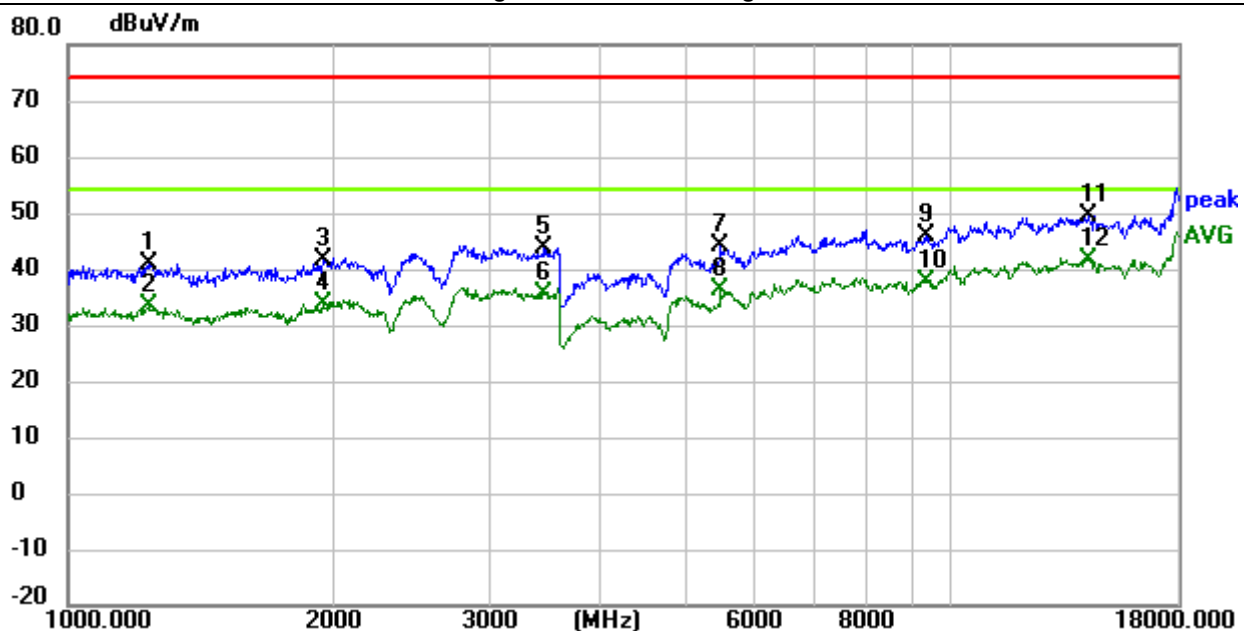
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1241.825	58.92	-17.96	40.96	74.00	-33.04	peak
H	1241.825	51.32	-17.96	33.36	54.00	-20.64	AVG
H	1945.200	56.49	-14.74	41.75	74.00	-32.25	peak
H	1945.200	48.34	-14.74	33.60	54.00	-20.40	AVG
H	3464.575	53.18	-9.54	43.64	74.00	-30.36	peak
H	3464.575	45.03	-9.54	35.49	54.00	-18.51	AVG
H	5487.150	49.43	-5.50	43.93	74.00	-30.07	peak
H	5487.150	41.76	-5.50	36.26	54.00	-17.74	AVG
H	9360.175	45.73	0.05	45.78	74.00	-28.22	peak
H	9360.175	37.47	0.05	37.52	54.00	-16.48	AVG
H	14303.350	43.52	5.80	49.32	74.00	-24.68	peak
H	14303.350	35.71	5.80	41.51	54.00	-12.49	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



■ Spurious Emission Above 1GHz (18GHz to 25GHz)

EUT:	smartphone	Model No.:	A70
Temperature:	25.6 °C	Relative Humidity:	55.7%
Test Mode:	802.11b/g/n (HT20/HT40)	Test By:	Donjon Huang

802.11 b
2412

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18445.550	54.96	-14.80	40.16	74.00	-33.84	peak
V	18445.550	47.55	-14.80	32.75	54.00	-21.25	AVG
V	18925.575	55.22	-14.22	41.00	74.00	-33.00	peak
V	18925.575	47.22	-14.22	33.00	54.00	-21.00	AVG
V	20178.400	55.26	-12.69	42.57	74.00	-31.43	peak
V	20178.400	47.65	-12.69	34.96	54.00	-19.04	AVG
V	21715.600	56.43	-12.27	44.16	74.00	-29.84	peak
V	21715.600	48.16	-12.27	35.89	54.00	-18.11	AVG
V	23333.650	56.79	-11.90	44.89	74.00	-29.11	peak
V	23333.650	48.14	-11.90	36.24	54.00	-17.76	AVG
V	24489.000	55.95	-11.10	44.85	74.00	-29.15	peak
V	24489.000	47.51	-11.10	36.41	54.00	-17.59	AVG

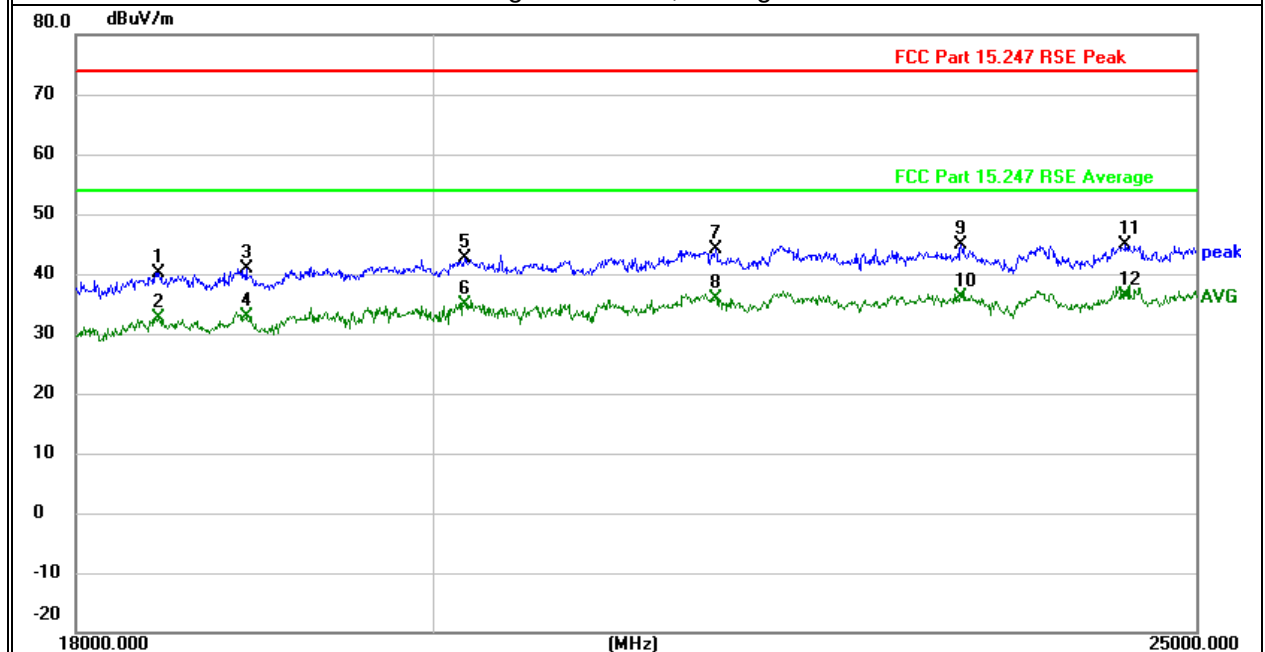
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2412MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18389.900	55.97	-14.76	41.21	74.00	-32.79	peak
H	18389.900	47.85	-14.76	33.09	54.00	-20.91	AVG
H	19038.275	57.13	-14.03	43.10	74.00	-30.90	peak
H	19038.275	49.16	-14.03	35.13	54.00	-18.87	AVG
H	19920.450	56.65	-12.63	44.02	74.00	-29.98	peak
H	19920.450	48.78	-12.63	36.15	54.00	-17.85	AVG
H	20741.200	57.08	-12.13	44.95	74.00	-29.05	peak
H	20741.200	48.85	-12.13	36.72	54.00	-17.28	AVG
H	23231.625	57.41	-12.11	45.30	74.00	-28.70	peak
H	23231.625	49.67	-12.11	37.56	54.00	-16.44	AVG
H	24826.750	56.86	-10.52	46.34	74.00	-27.66	peak
H	24826.750	49.16	-10.52	38.64	54.00	-15.36	AVG

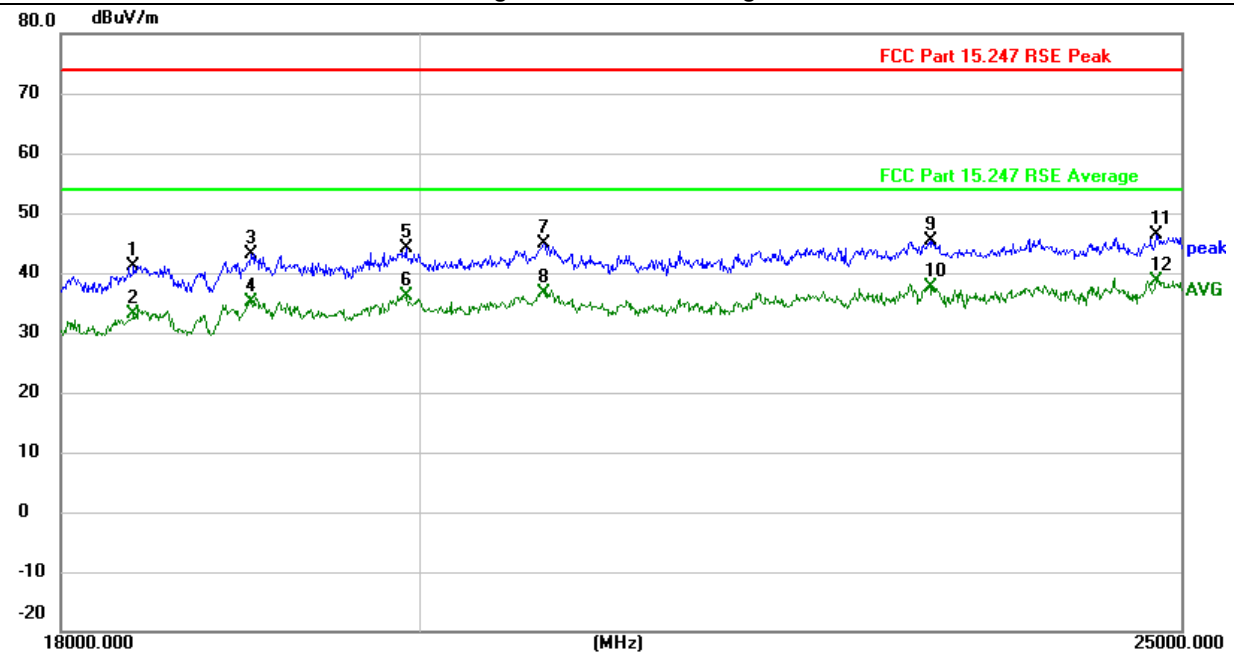
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2412MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2437

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18459.025	56.63	-14.81	41.82	74.00	-32.18	peak
V	18459.025	48.00	-14.81	33.19	54.00	-20.81	AVG
V	19375.500	56.53	-13.63	42.90	74.00	-31.10	peak
V	19375.500	47.64	-13.63	34.01	54.00	-19.99	AVG
V	20728.950	55.90	-12.13	43.77	74.00	-30.23	peak
V	20728.950	47.62	-12.13	35.49	54.00	-18.51	AVG
V	22186.700	56.41	-11.84	44.57	74.00	-29.43	peak
V	22186.700	49.40	-11.84	37.56	54.00	-16.44	AVG
V	23526.150	55.58	-11.43	44.15	74.00	-29.85	peak
V	23526.150	48.01	-11.43	36.58	54.00	-17.42	AVG
V	24385.575	56.16	-11.37	44.79	74.00	-29.21	peak
V	24385.575	47.83	-11.37	36.46	54.00	-17.54	AVG

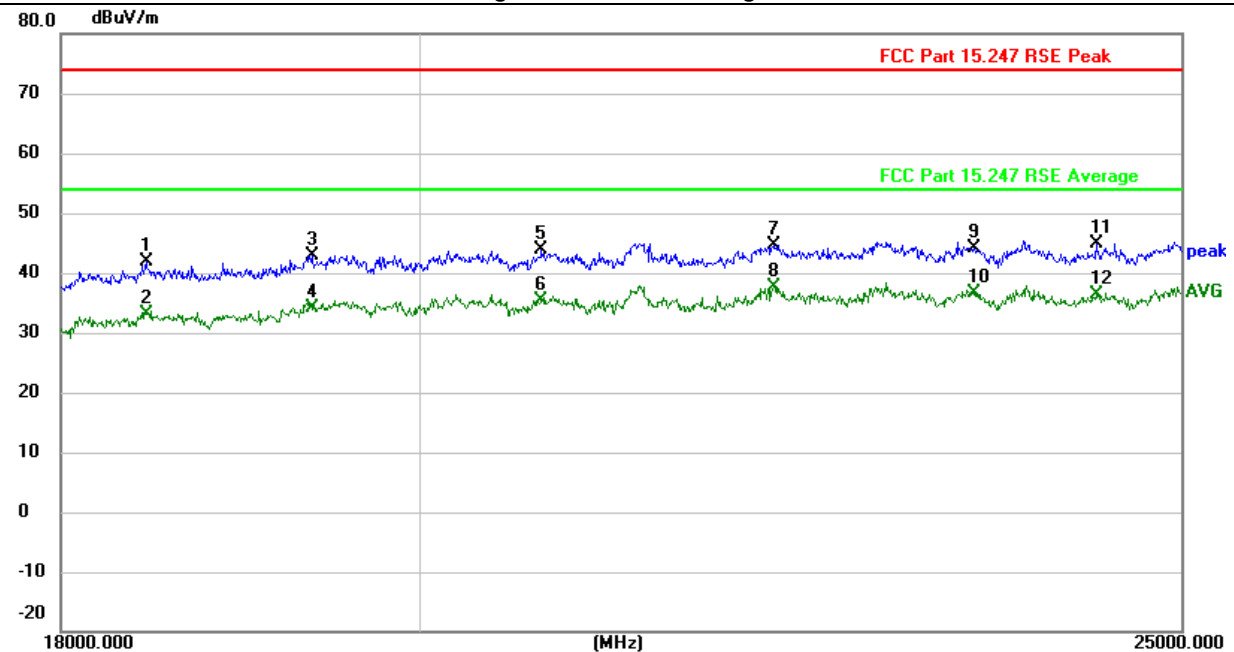
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2437MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18759.675	56.26	-14.54	41.72	74.00	-32.28	peak
H	18759.675	49.01	-14.54	34.47	54.00	-19.53	AVG
H	19938.300	57.57	-12.59	44.98	74.00	-29.02	peak
H	19938.300	49.41	-12.59	36.82	54.00	-17.18	AVG
H	20895.025	57.62	-12.23	45.39	74.00	-28.61	peak
H	20895.025	49.98	-12.23	37.75	54.00	-16.25	AVG
H	22324.950	57.18	-11.70	45.48	74.00	-28.52	peak
H	22324.950	49.24	-11.70	37.54	54.00	-16.46	AVG
H	23866.525	56.44	-11.31	45.13	74.00	-28.87	peak
H	23866.525	47.18	-11.31	35.87	54.00	-18.13	AVG
H	24832.875	55.65	-10.50	45.15	74.00	-28.85	peak
H	24832.875	47.72	-10.50	37.22	54.00	-16.78	AVG

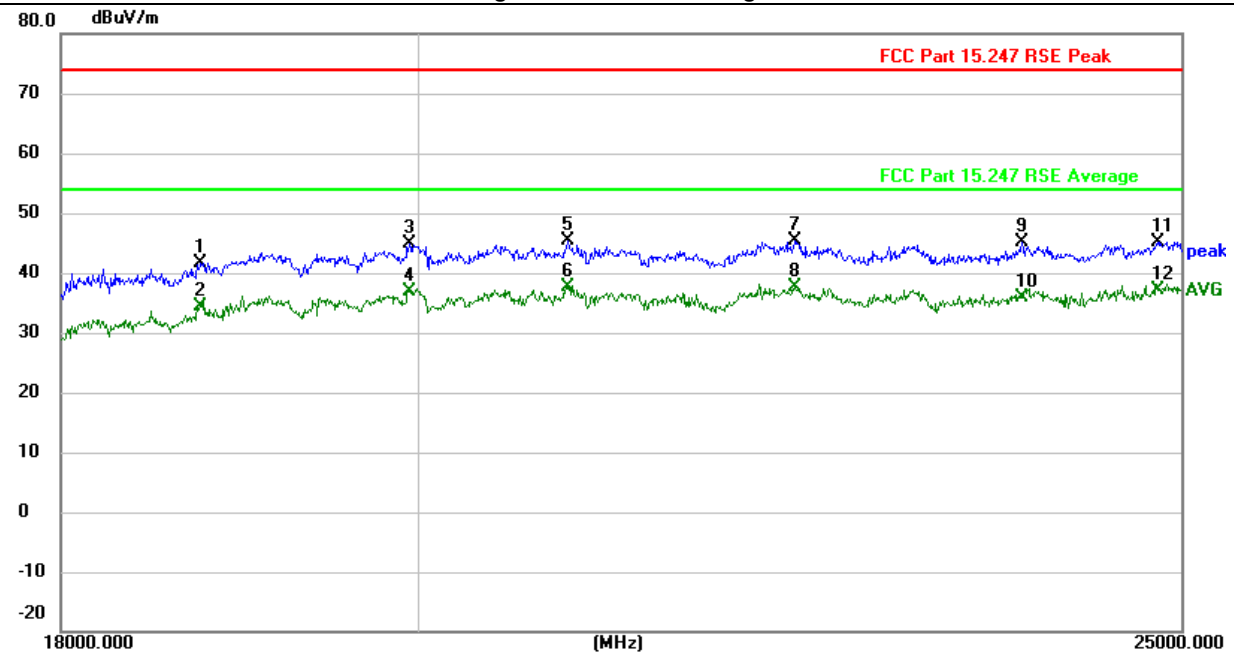
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2437MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18322.000	56.48	-14.71	41.77	74.00	-32.23	peak
V	18322.000	49.29	-14.71	34.58	54.00	-19.42	AVG
V	19288.700	57.27	-13.74	43.53	74.00	-30.47	peak
V	19288.700	48.83	-13.74	35.09	54.00	-18.91	AVG
V	20373.875	57.57	-12.46	45.11	74.00	-28.89	peak
V	20373.875	49.28	-12.46	36.82	54.00	-17.18	AVG
V	21718.750	58.12	-12.28	45.84	74.00	-28.16	peak
V	21718.750	49.33	-12.28	37.05	54.00	-16.95	AVG
V	22639.075	56.24	-11.66	44.58	74.00	-29.42	peak
V	22639.075	47.56	-11.66	35.90	54.00	-18.10	AVG
V	24529.425	57.79	-11.05	46.74	74.00	-27.26	peak
V	24529.425	49.26	-11.05	38.21	54.00	-15.79	AVG

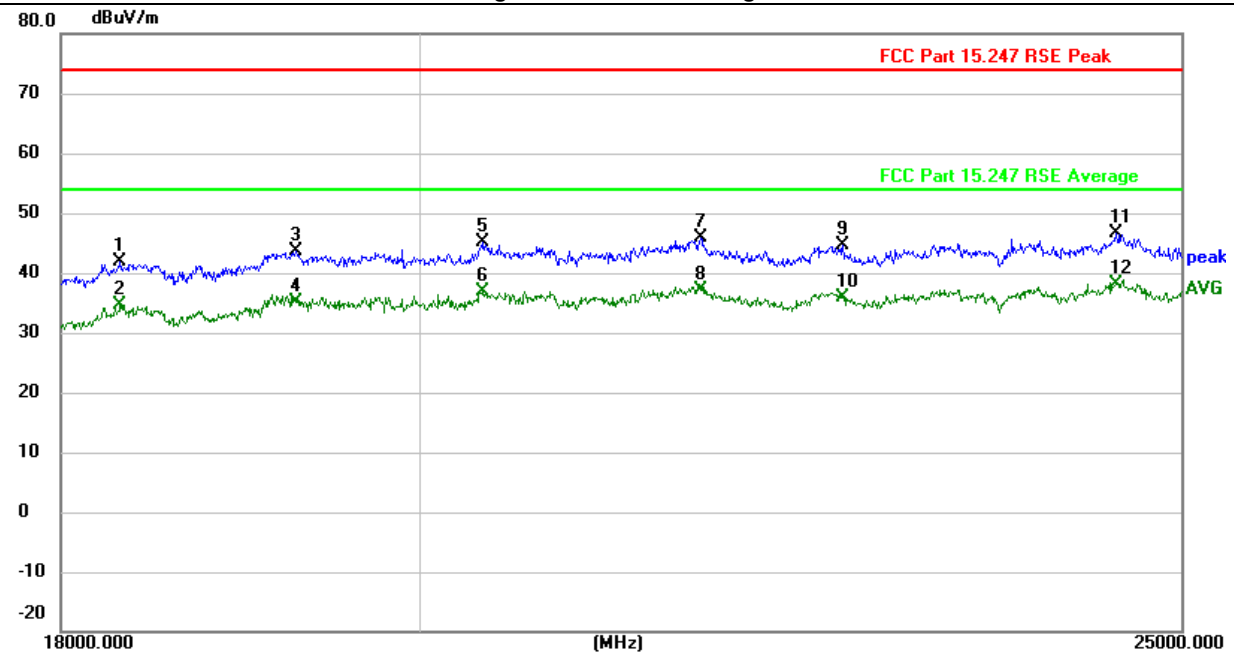
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2462MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	19087.625	57.31	-13.97	43.34	74.00	-30.66	peak
H	19087.625	49.46	-13.97	35.49	54.00	-18.51	AVG
H	19943.200	57.80	-12.59	45.21	74.00	-28.79	peak
H	19943.200	49.37	-12.59	36.78	54.00	-17.22	AVG
H	20707.950	57.18	-12.12	45.06	74.00	-28.94	peak
H	20707.950	49.42	-12.12	37.30	54.00	-16.70	AVG
H	21580.850	56.99	-12.25	44.74	74.00	-29.26	peak
H	21580.850	49.77	-12.25	37.52	54.00	-16.48	AVG
H	22673.900	56.53	-11.70	44.83	74.00	-29.17	peak
H	22673.900	48.31	-11.70	36.61	54.00	-17.39	AVG
H	23900.825	56.61	-11.25	45.36	74.00	-28.64	peak
H	23900.825	49.23	-11.25	37.98	54.00	-16.02	AVG

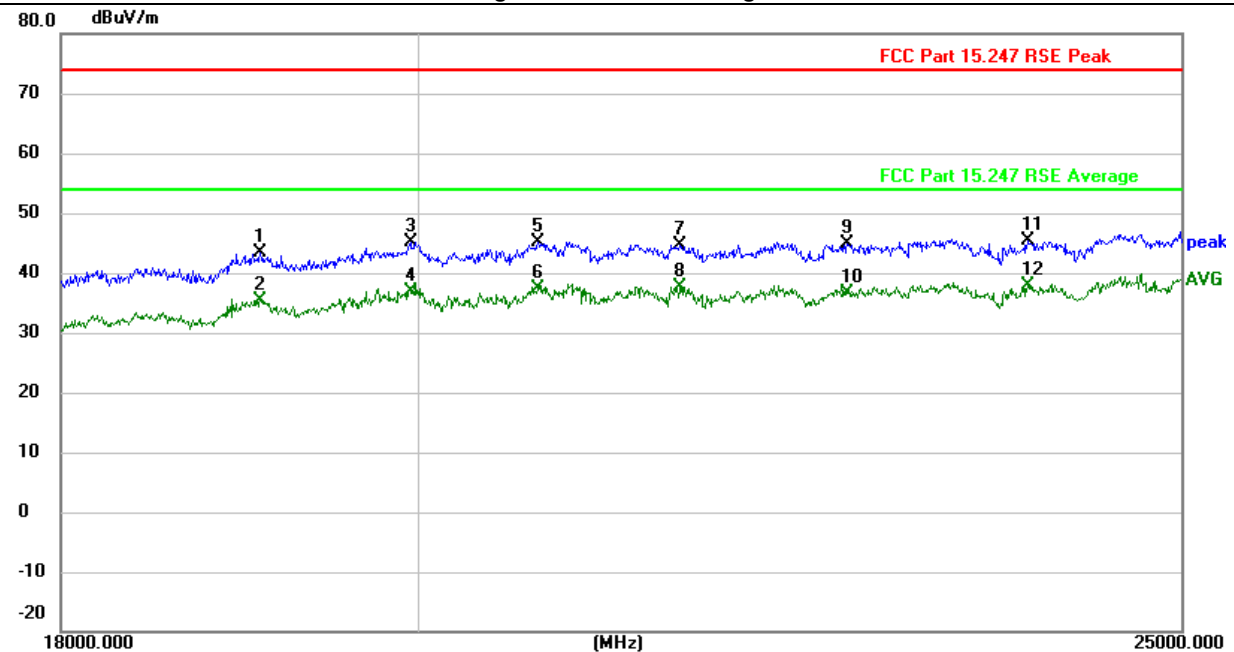
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 b 2462MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 n40
2422

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18892.500	58.00	-14.28	43.72	74.00	-30.28	peak
V	18892.500	50.02	-14.28	35.74	54.00	-18.26	AVG
V	19580.600	57.54	-13.29	44.25	74.00	-29.75	peak
V	19580.600	49.90	-13.29	36.61	54.00	-17.39	AVG
V	21205.825	57.90	-12.23	45.67	74.00	-28.33	peak
V	21205.825	49.29	-12.23	37.06	54.00	-16.94	AVG
V	22639.425	56.67	-11.66	45.01	74.00	-28.99	peak
V	22639.425	48.75	-11.66	37.09	54.00	-16.91	AVG
V	23390.350	56.81	-11.73	45.08	74.00	-28.92	peak
V	23390.350	49.43	-11.73	37.70	54.00	-16.30	AVG
V	24982.150	55.35	-9.79	45.56	74.00	-28.44	peak
V	24982.150	47.75	-9.79	37.96	54.00	-16.04	AVG

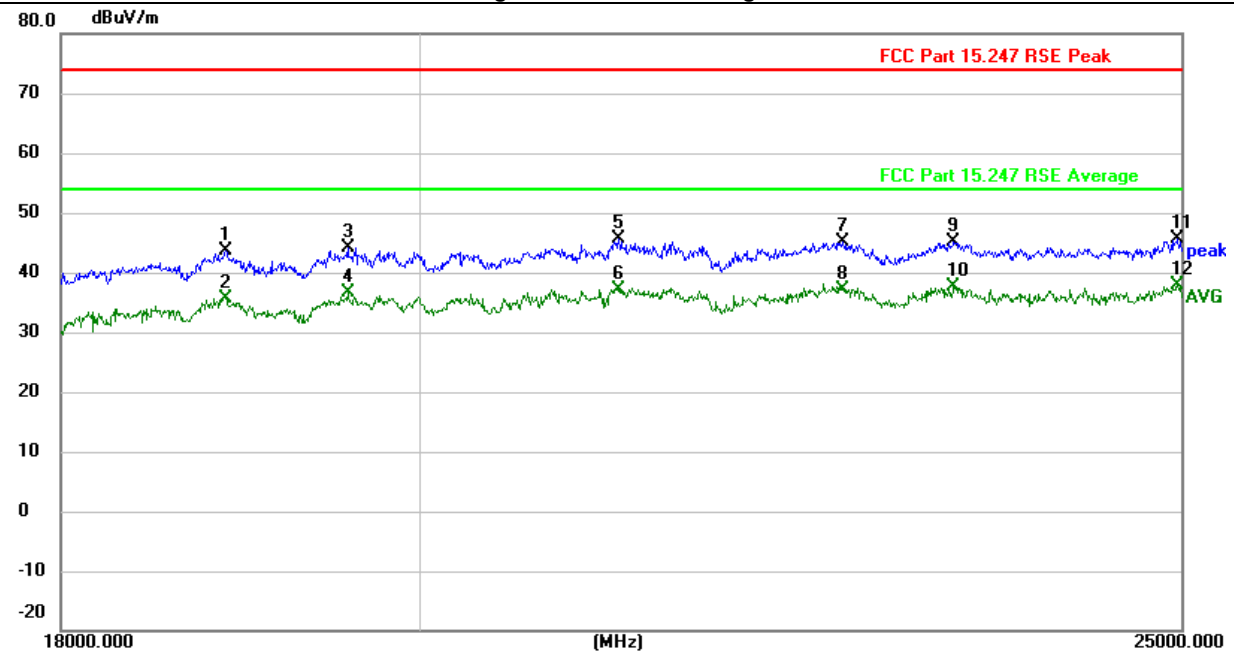
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2422MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18532.000	57.47	-14.81	42.66	74.00	-31.34	peak
H	18532.000	49.40	-14.81	34.59	54.00	-19.41	AVG
H	19518.825	58.10	-13.44	44.66	74.00	-29.34	peak
H	19518.825	49.80	-13.44	36.36	54.00	-17.64	AVG
H	20704.100	56.75	-12.13	44.62	74.00	-29.38	peak
H	20704.100	48.28	-12.13	36.15	54.00	-17.85	AVG
H	21707.200	55.86	-12.27	43.59	74.00	-30.41	peak
H	21707.200	48.53	-12.27	36.26	54.00	-17.74	AVG
H	23110.875	56.66	-11.95	44.71	74.00	-29.29	peak
H	23110.875	49.21	-11.95	37.26	54.00	-16.74	AVG
H	24885.550	55.48	-10.25	45.23	74.00	-28.77	peak
H	24885.550	47.03	-10.25	36.78	54.00	-17.22	AVG

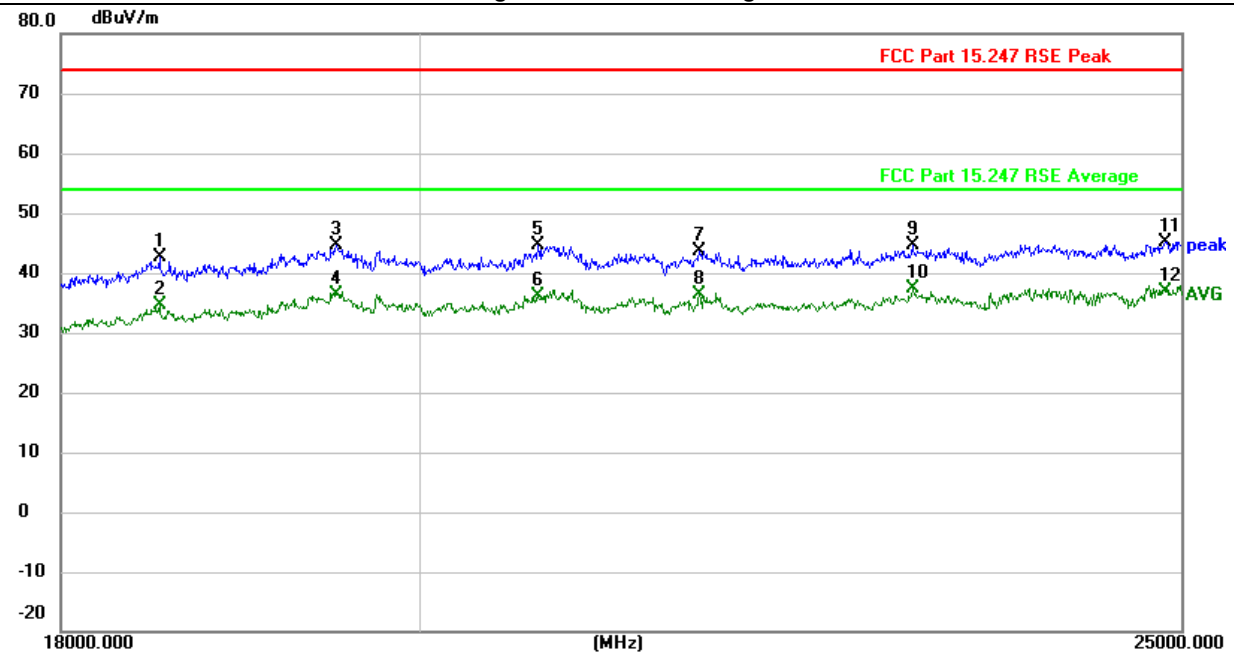
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2422MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2437

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18768.775	55.76	-14.53	41.23	74.00	-32.77	peak
V	18768.775	47.50	-14.53	32.97	54.00	-21.03	AVG
V	19870.400	55.21	-12.70	42.51	74.00	-31.49	peak
V	19870.400	47.77	-12.70	35.07	54.00	-18.93	AVG
V	20801.050	55.22	-12.16	43.06	74.00	-30.94	peak
V	20801.050	46.48	-12.16	34.32	54.00	-19.68	AVG
V	22016.075	56.06	-11.98	44.08	74.00	-29.92	peak
V	22016.075	48.70	-11.98	36.72	54.00	-17.28	AVG
V	22932.375	55.44	-11.79	43.65	74.00	-30.35	peak
V	22932.375	48.21	-11.79	36.42	54.00	-17.58	AVG
V	24715.625	55.62	-10.92	44.70	74.00	-29.30	peak
V	24715.625	46.58	-10.92	35.66	54.00	-18.34	AVG

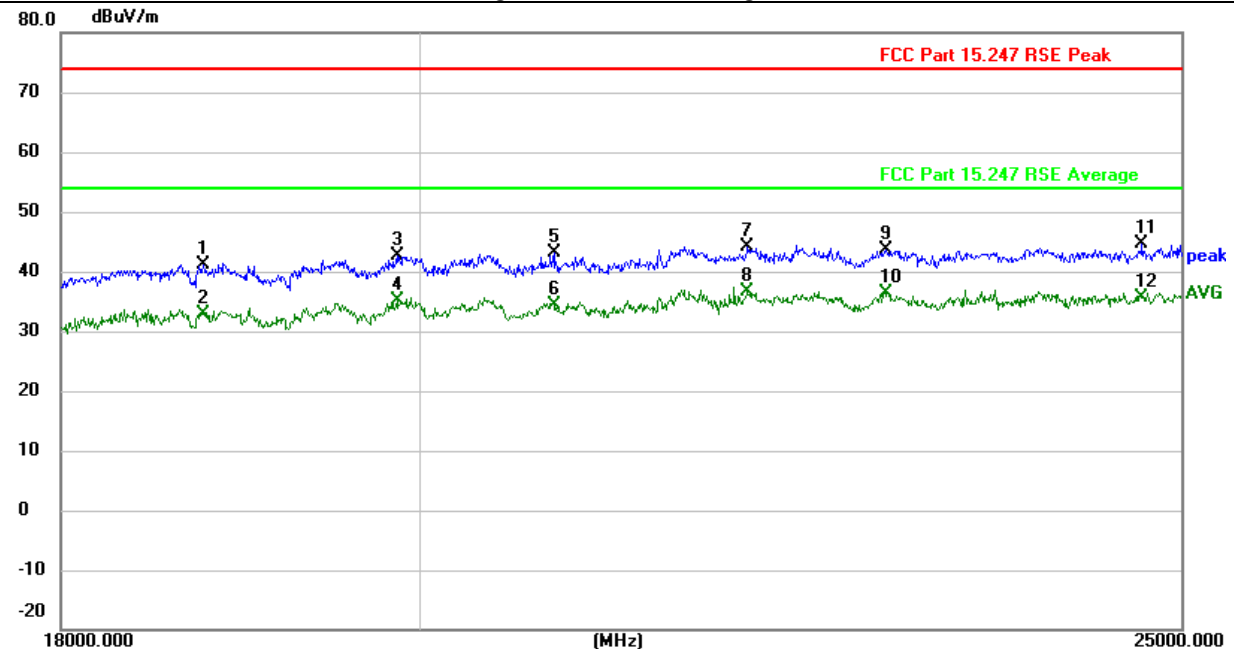
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2437MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18859.950	56.23	-14.34	41.89	74.00	-32.11	peak
H	18859.950	48.72	-14.34	34.38	54.00	-19.62	AVG
H	19692.425	55.28	-13.03	42.25	74.00	-31.75	peak
H	19692.425	46.47	-13.03	33.44	54.00	-20.56	AVG
H	20381.925	55.30	-12.44	42.86	74.00	-31.14	peak
H	20381.925	47.58	-12.44	35.14	54.00	-18.86	AVG
H	21400.950	55.25	-12.24	43.01	74.00	-30.99	peak
H	21400.950	46.89	-12.24	34.65	54.00	-19.35	AVG
H	23145.350	56.16	-12.00	44.16	74.00	-29.84	peak
H	23145.350	49.38	-12.00	37.38	54.00	-16.62	AVG
H	24485.150	55.37	-11.11	44.26	74.00	-29.74	peak
H	24485.150	46.56	-11.11	35.45	54.00	-18.55	AVG

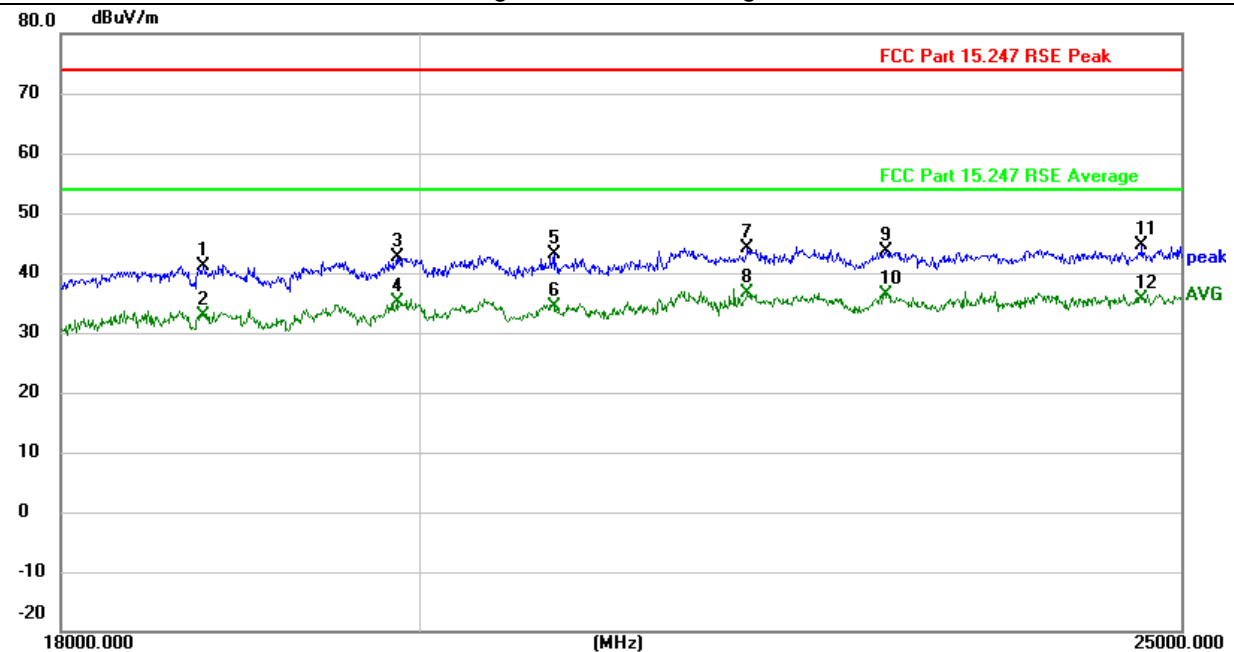
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2437MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2452

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18768.775	56.76	-14.53	42.23	74.00	-31.77	peak
V	18768.775	48.50	-14.53	33.97	54.00	-20.03	AVG
V	19570.625	56.58	-13.32	43.26	74.00	-30.74	peak
V	19570.625	49.05	-13.32	35.73	54.00	-18.27	AVG
V	20931.775	56.17	-12.25	43.92	74.00	-30.08	peak
V	20931.775	47.40	-12.25	35.15	54.00	-18.85	AVG
V	21457.825	56.90	-12.24	44.66	74.00	-29.34	peak
V	21457.825	48.90	-12.24	36.66	54.00	-17.34	AVG
V	22932.375	56.44	-11.79	44.65	74.00	-29.35	peak
V	22932.375	49.21	-11.79	37.42	54.00	-16.58	AVG
V	24383.300	55.94	-11.38	44.56	74.00	-29.44	peak
V	24383.300	48.28	-11.38	36.90	54.00	-17.10	AVG

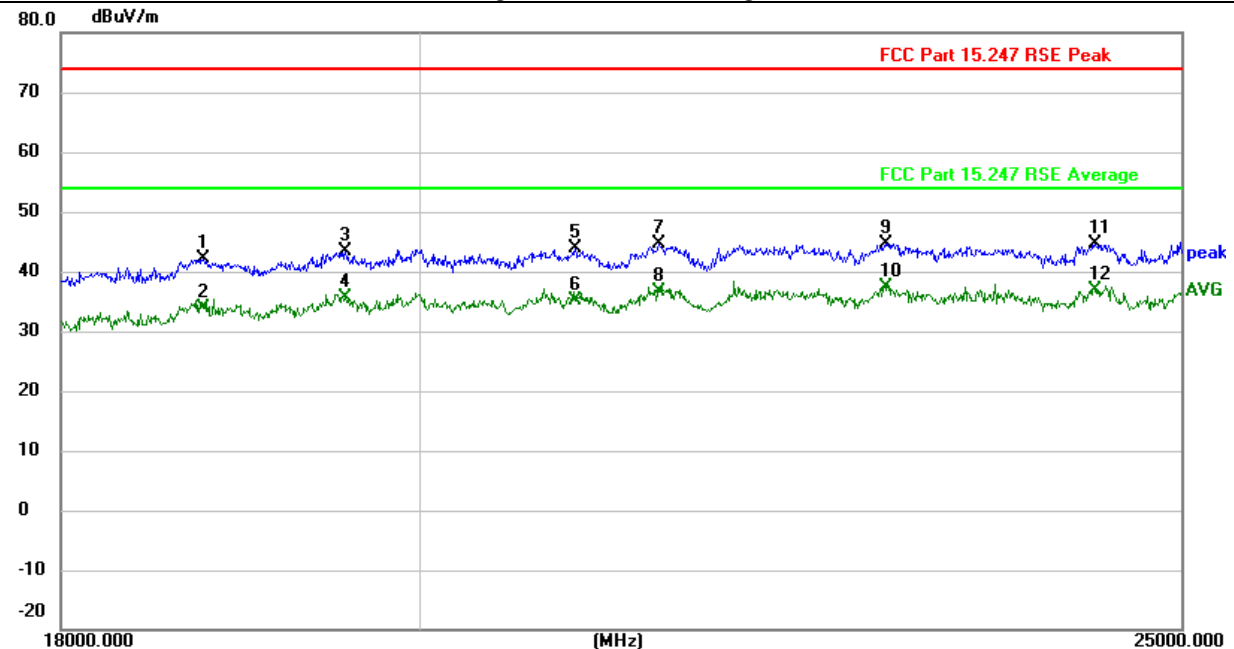
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2452MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18983.500	56.35	-14.11	42.24	74.00	-31.76	peak
H	18983.500	47.95	-14.11	33.84	54.00	-20.16	AVG
H	19692.425	57.28	-13.03	44.25	74.00	-29.75	peak
H	19692.425	48.47	-13.03	35.44	54.00	-18.56	AVG
H	20302.475	55.92	-12.64	43.28	74.00	-30.72	peak
H	20302.475	47.66	-12.64	35.02	54.00	-18.98	AVG
H	21013.325	55.00	-12.30	42.70	74.00	-31.30	peak
H	21013.325	47.31	-12.30	35.01	54.00	-18.99	AVG
H	22000.150	56.22	-11.99	44.23	74.00	-29.77	peak
H	22000.150	48.18	-11.99	36.19	54.00	-17.81	AVG
H	22928.000	55.47	-11.79	43.68	74.00	-30.32	peak
H	22928.000	47.36	-11.79	35.57	54.00	-18.43	AVG

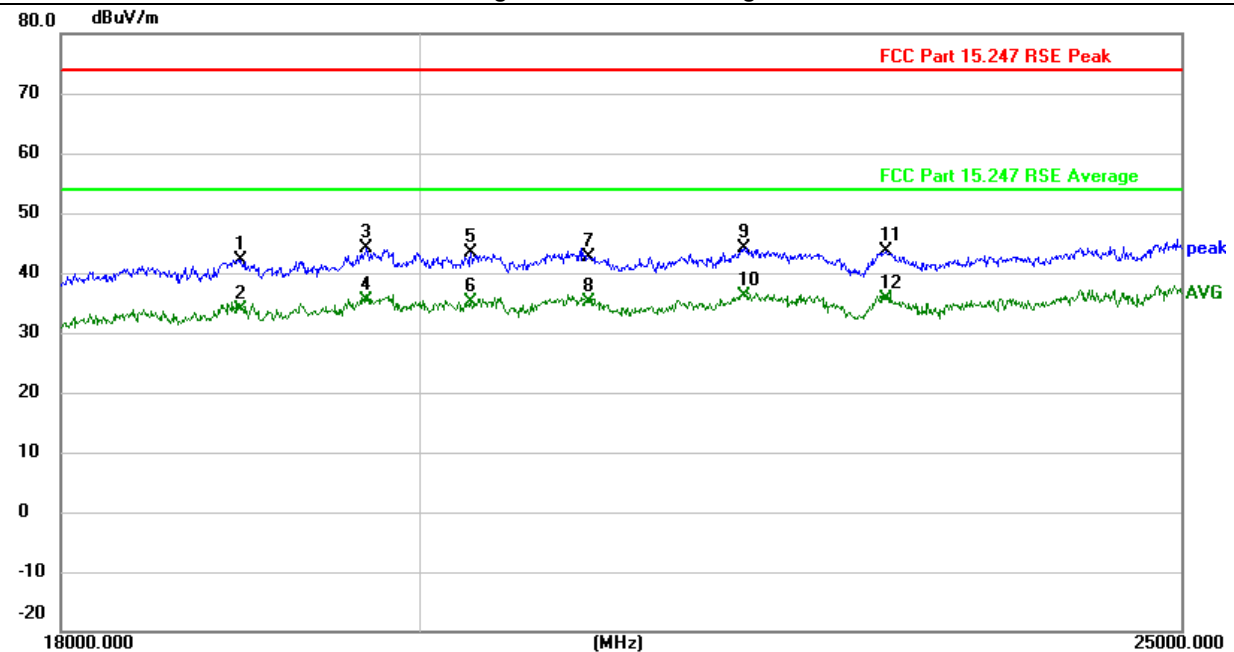
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

All the modulation modes have been tested, and the worst-case result was 802.11 n40 2452MHz. Only the worst-case mode reported.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



Radiated Spurious at Band Edges

EUT:	smartphone	Model No.:	A70
Temperature:	24 °C	Relative Humidity:	58.9%
Test Mode:	802.11b/g/n (HT20/ HT40)	Test By:	Donjon Huang

802.11 b
2412

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	2390.000	21.71	29.88	51.59	74.00	-22.41	peak
V	2390.000	12.13	29.88	42.01	54.00	-11.99	AVG

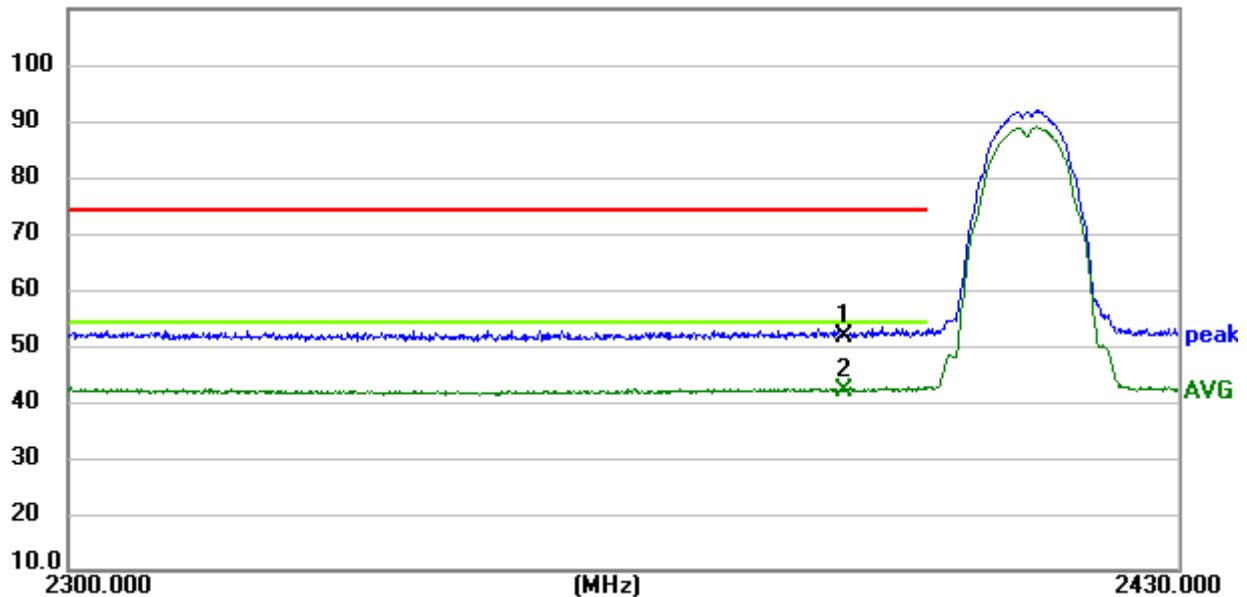
Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.

110.0 dBuV/m



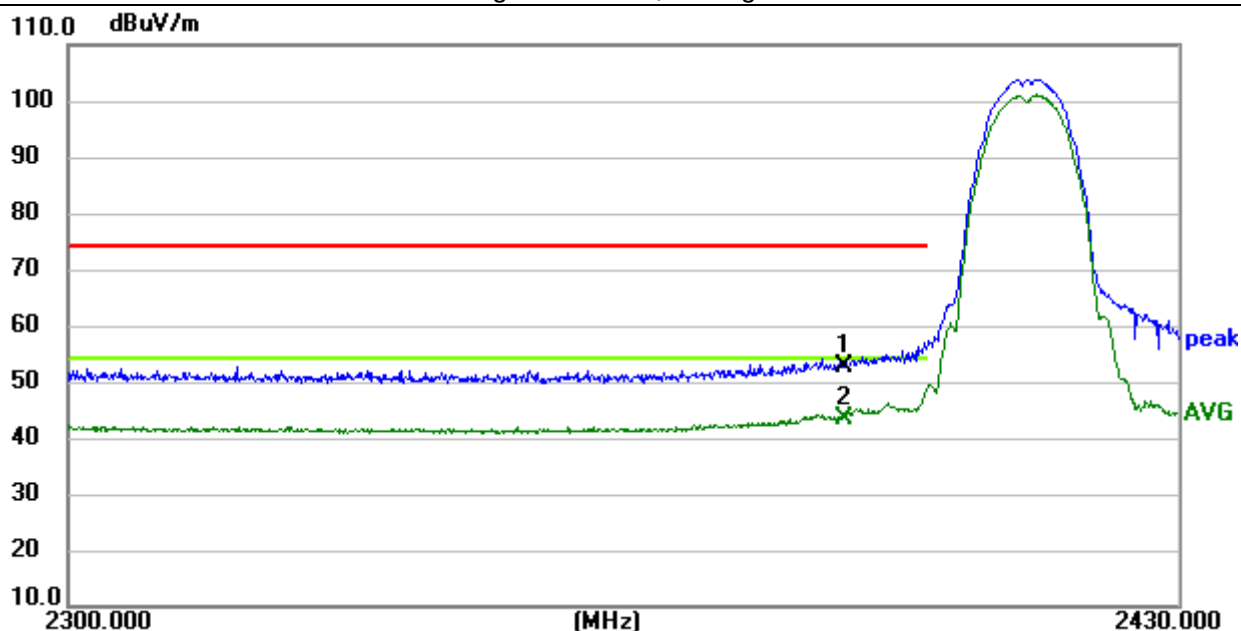
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	22.87	29.88	52.75	74.00	-21.25	peak
H	2390.000	13.45	29.88	43.33	54.00	-10.67	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

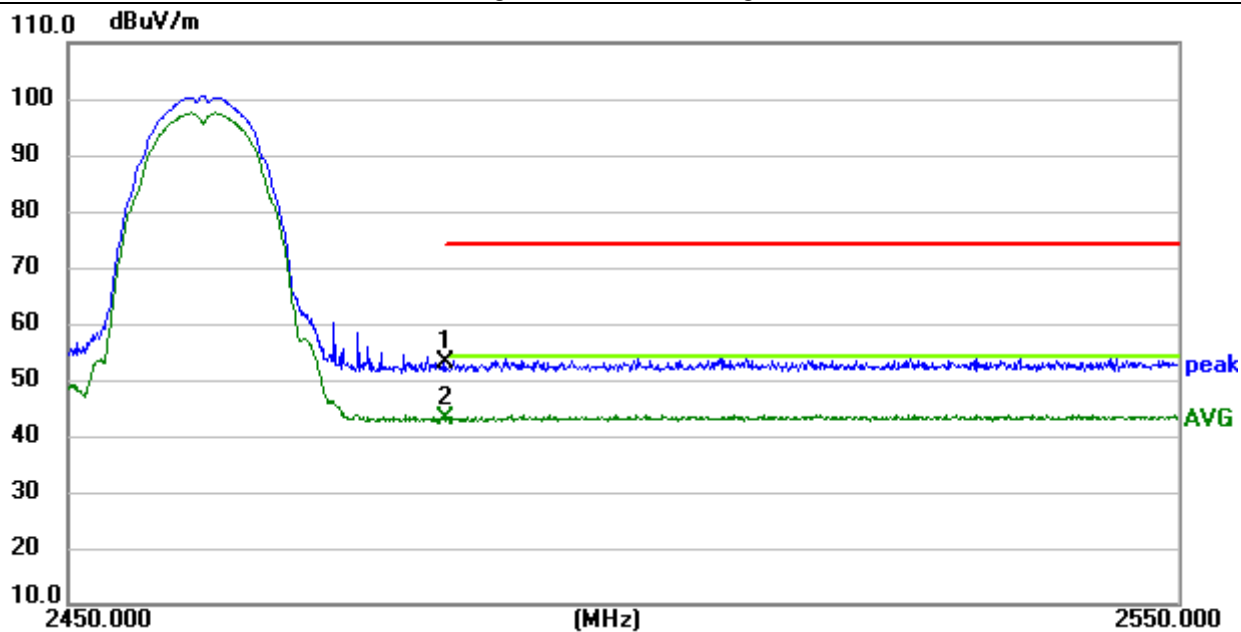
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	22.22	30.69	52.91	74.00	-21.09	peak
V	2483.500	12.19	30.69	42.88	54.00	-11.12	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



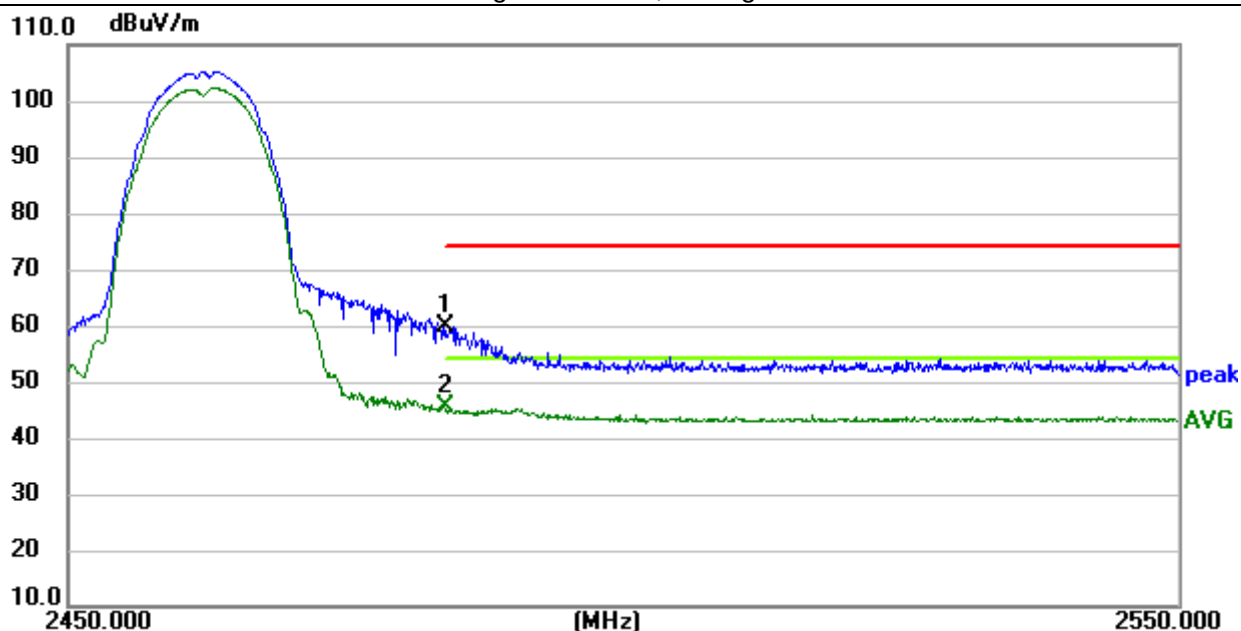
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	29.14	30.69	59.83	74.00	-14.17	peak
H	2483.500	14.84	30.69	45.53	54.00	-8.47	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 g
2412

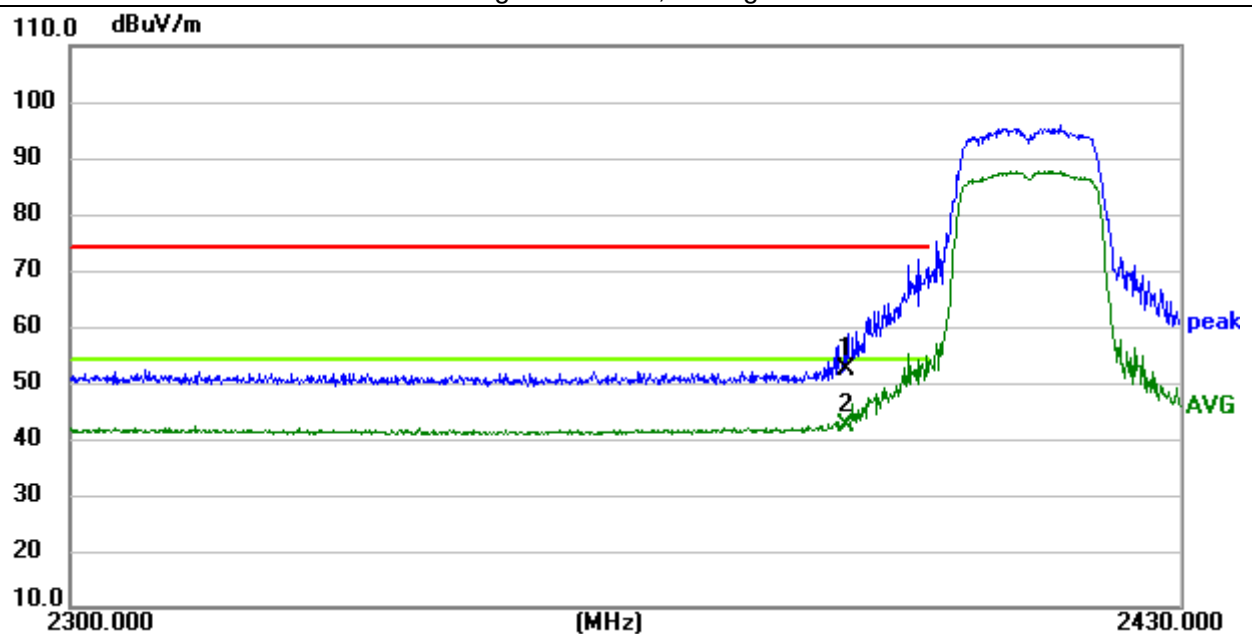
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2390.000	22.57	29.88	52.45	74.00	-21.55	peak
V	2390.000	12.29	29.88	42.17	54.00	-11.83	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



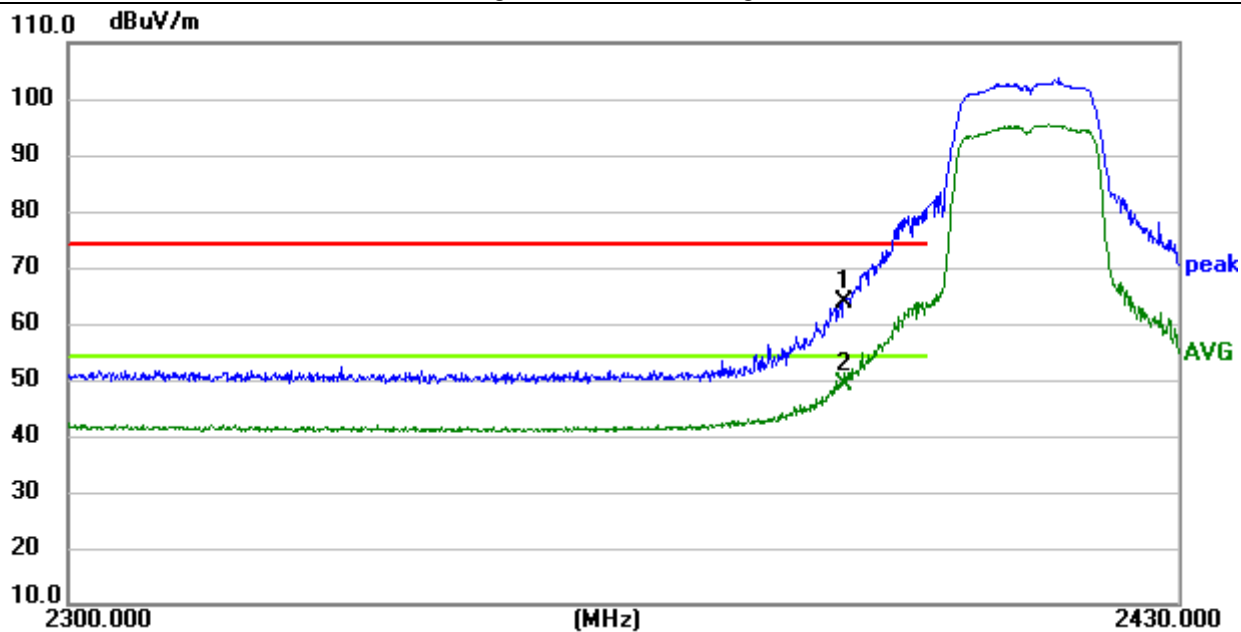
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	34.01	29.88	63.89	74.00	-10.11	peak
H	2390.000	19.06	29.88	48.94	54.00	-5.06	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

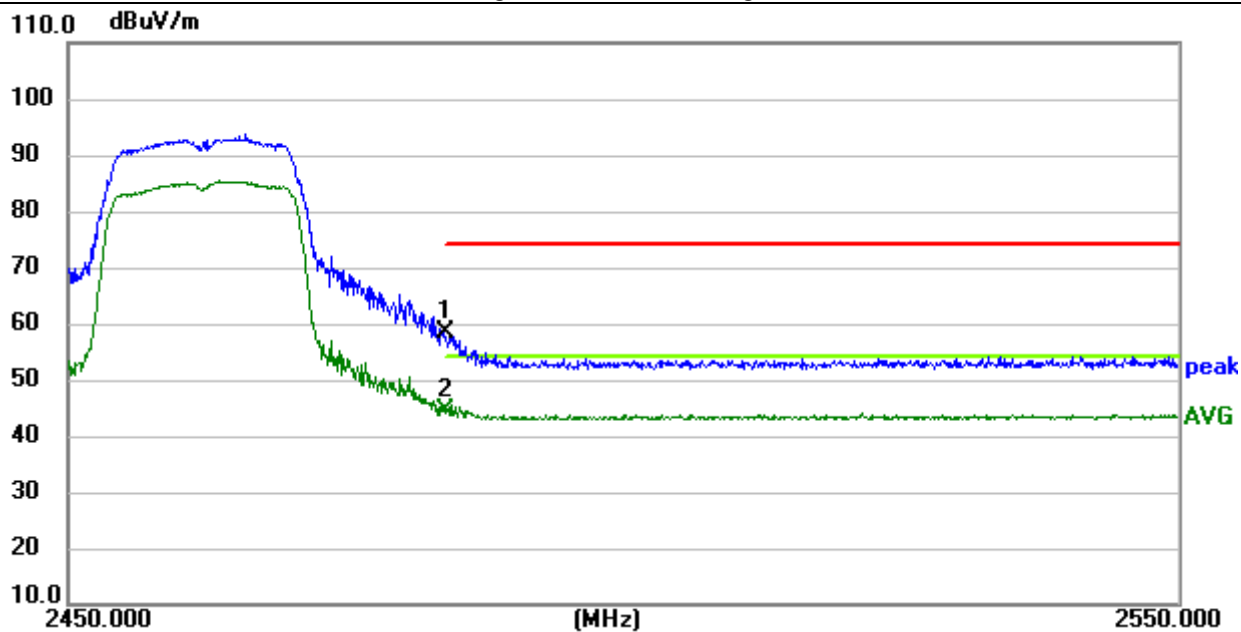
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	27.72	30.69	58.41	74.00	-15.59	peak
V	2483.500	13.68	30.69	44.37	54.00	-9.63	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



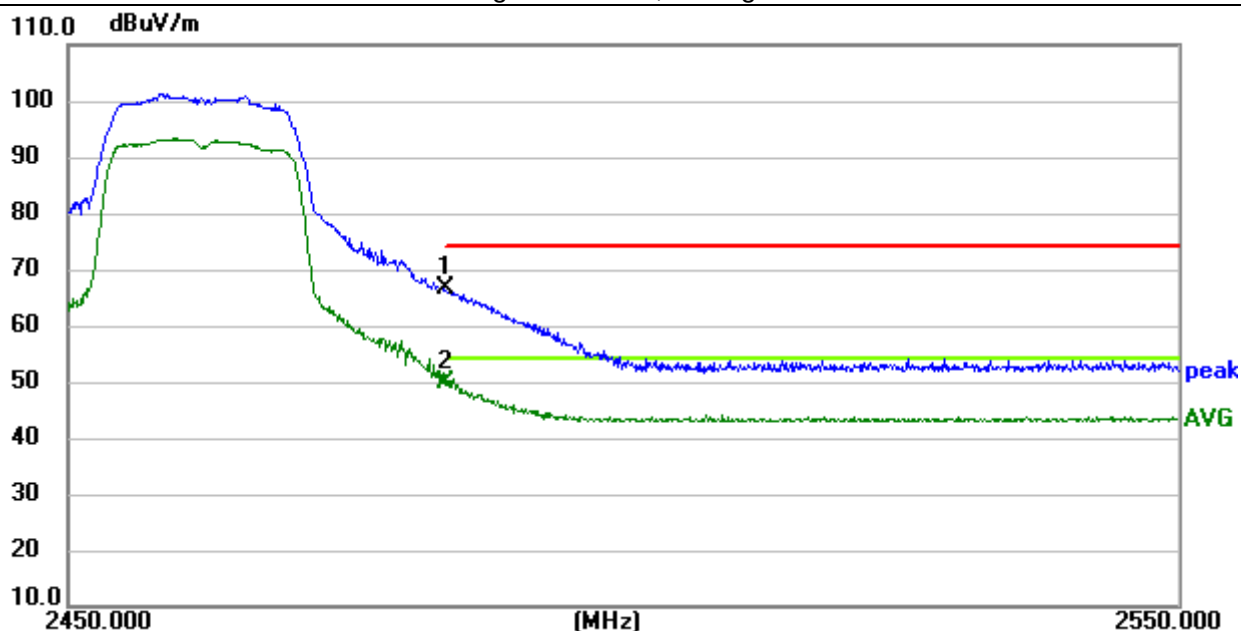
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	36.03	30.69	66.72	74.00	-7.28	peak
H	2483.500	18.96	30.69	49.65	54.00	-4.35	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 n20
2412

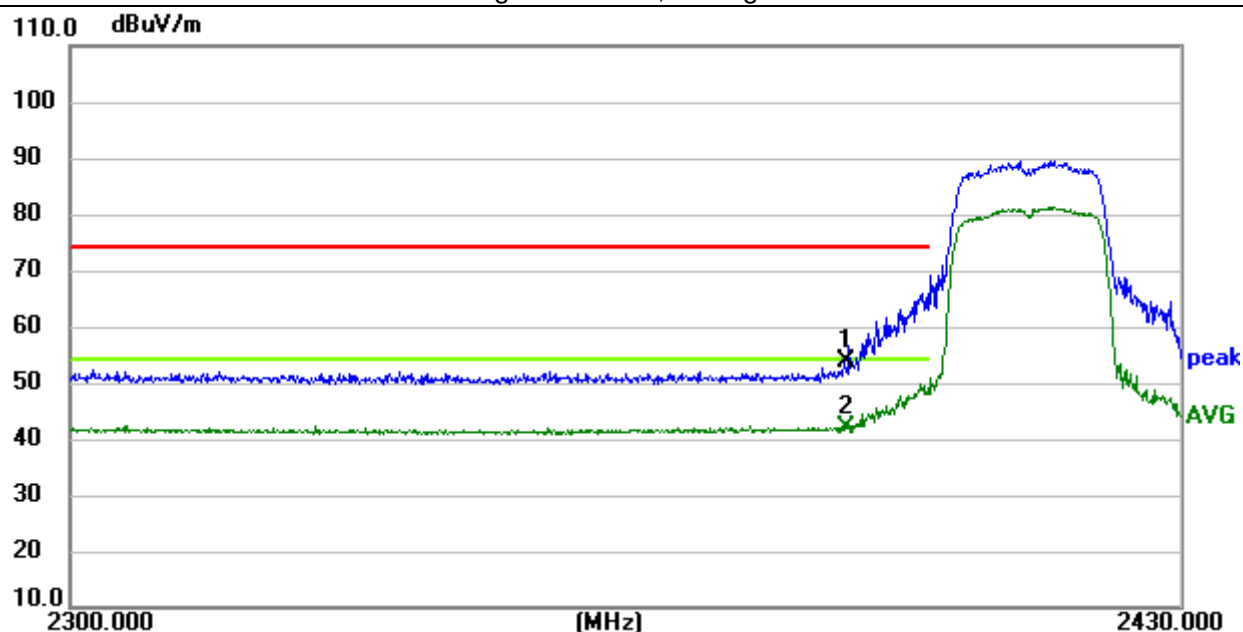
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2390.000	23.83	29.88	53.71	74.00	-20.29	peak
V	2390.000	12.02	29.88	41.90	54.00	-12.10	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



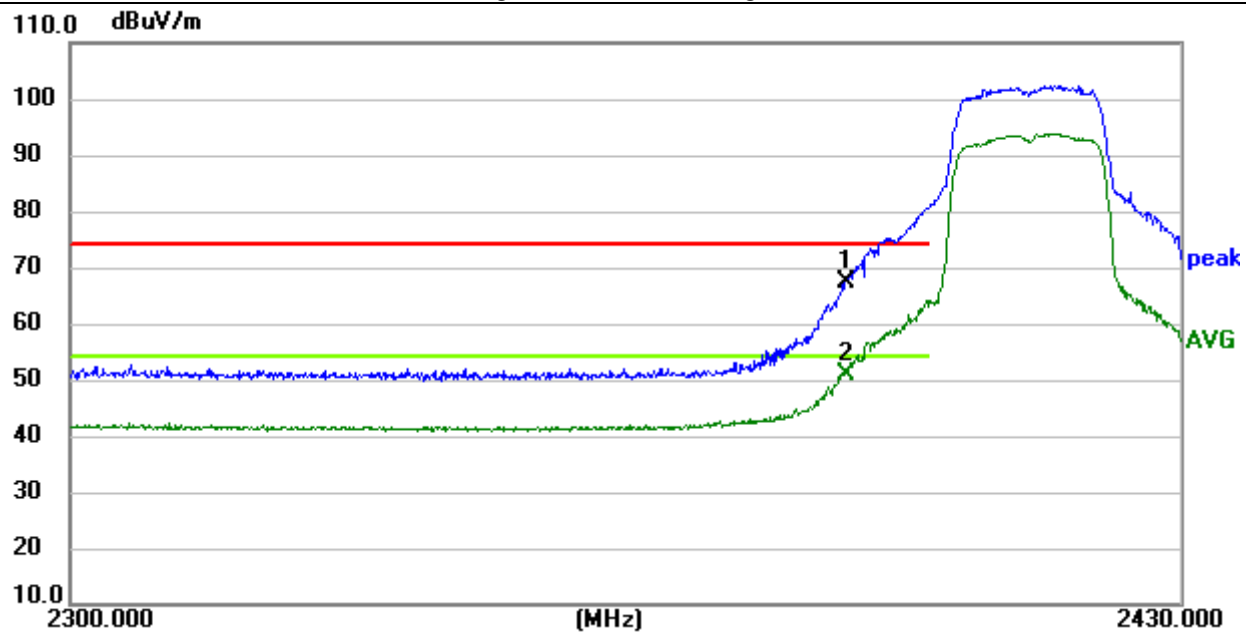
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	37.29	29.88	67.17	74.00	-6.83	peak
H	2390.000	21.05	29.88	50.93	54.00	-3.07	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2462

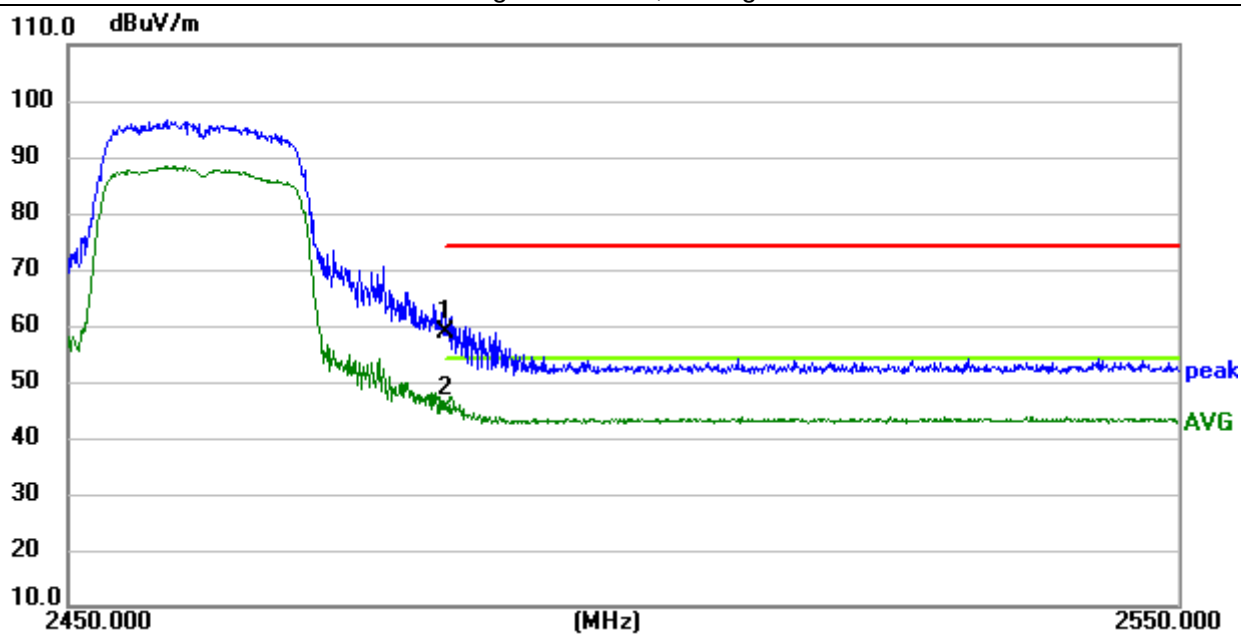
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	28.15	30.69	58.84	74.00	-15.16	peak
V	2483.500	14.64	30.69	45.33	54.00	-8.67	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



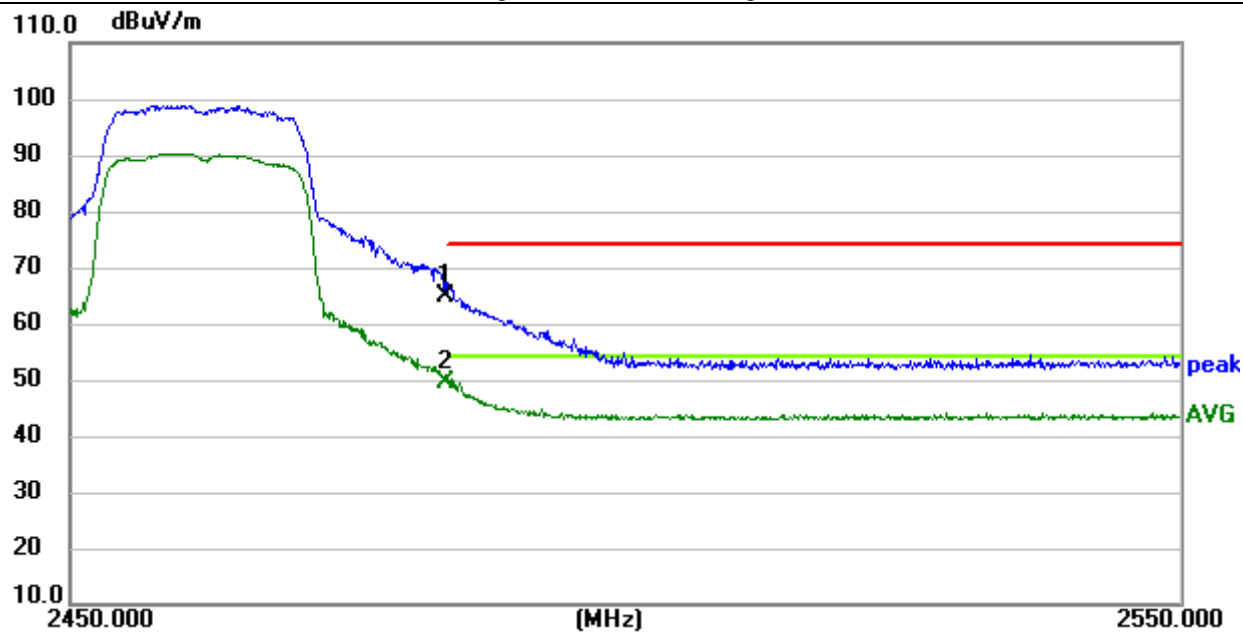
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	34.28	30.69	64.97	74.00	-9.03	peak
H	2483.500	18.72	30.69	49.41	54.00	-4.59	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11 n40
2422

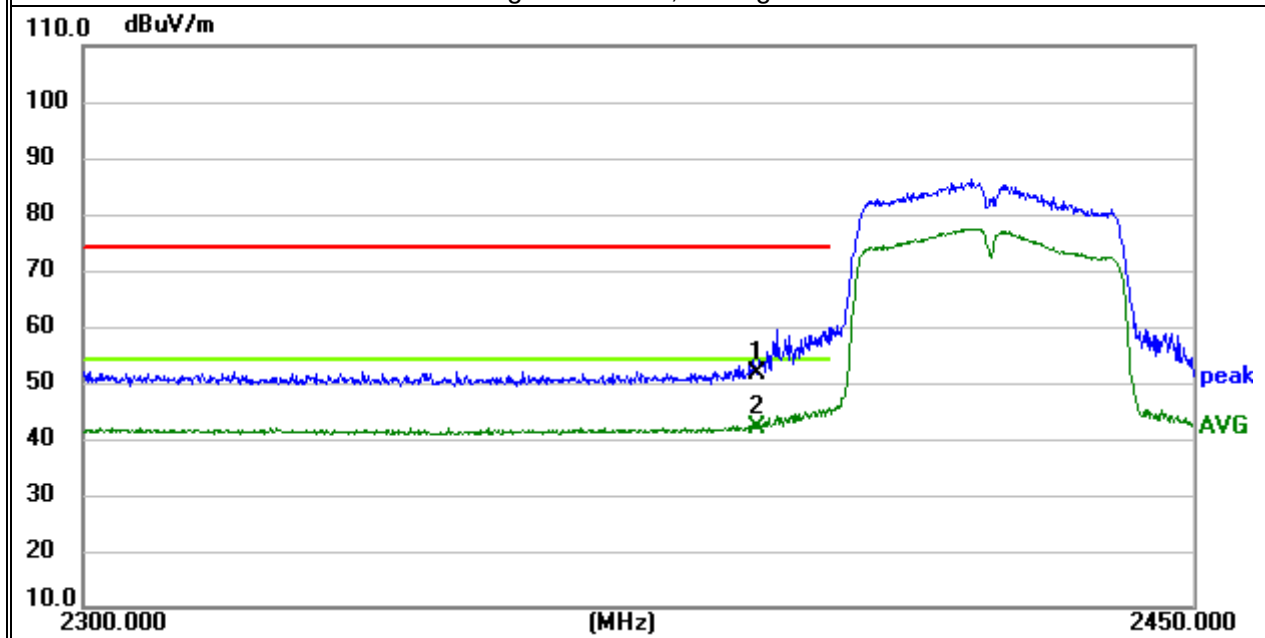
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2390.000	21.81	29.88	51.69	74.00	-22.31	peak
V	2390.000	11.94	29.88	41.82	54.00	-12.18	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



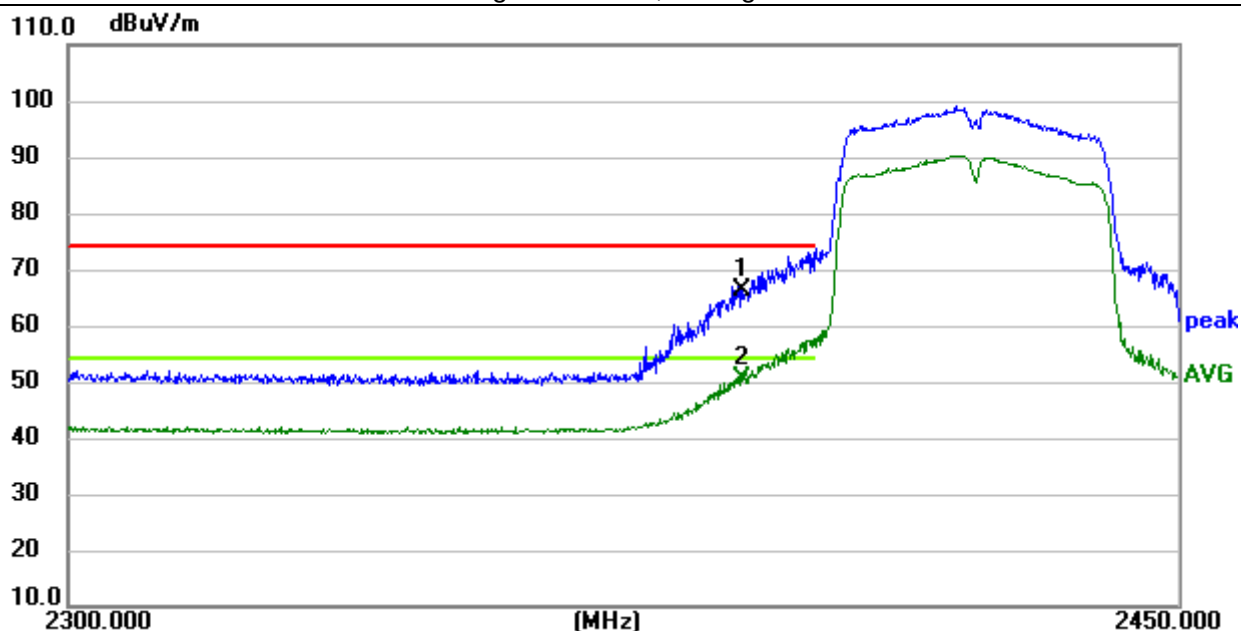
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	36.40	29.88	66.28	74.00	-7.72	peak
H	2390.000	20.62	29.88	50.50	54.00	-3.50	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



2452

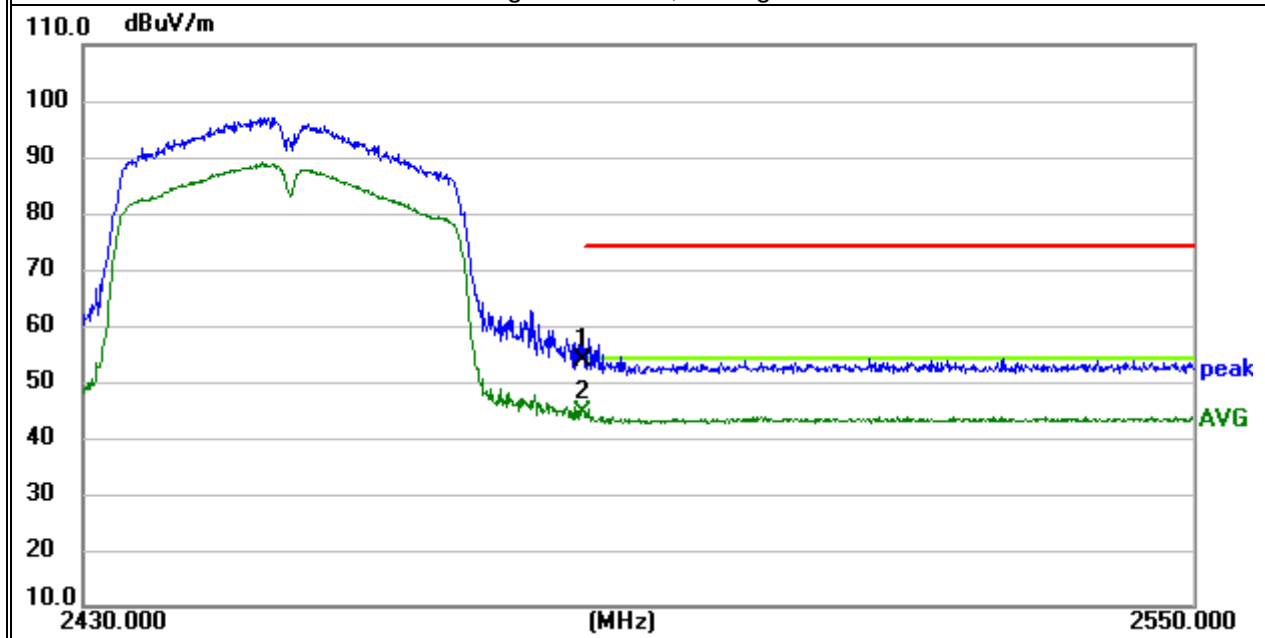
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	22.93	30.69	53.62	74.00	-20.38	peak
V	2483.500	13.70	30.69	44.39	54.00	-9.61	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



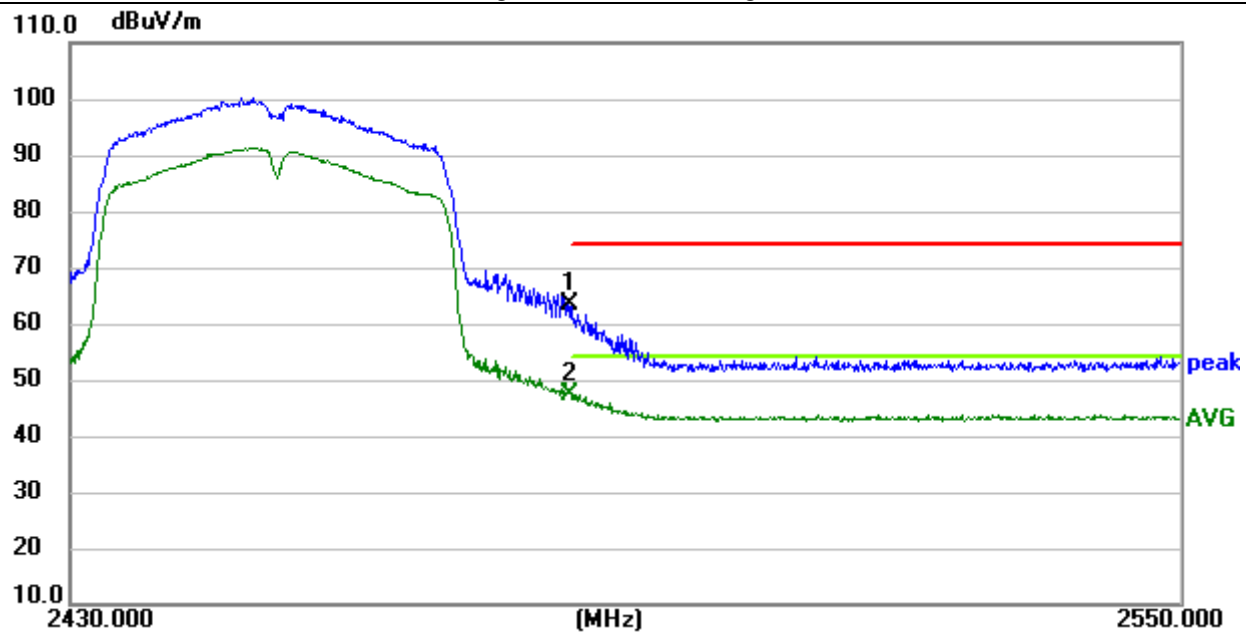
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	32.75	30.69	63.44	74.00	-10.56	peak
H	2483.500	16.72	30.69	47.41	54.00	-6.59	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

a) Set RBW=shall be in the range of 1% to 5% of the OBW but not less than 100kHz.

b) Set the VBW $\geq [3 \times \text{RBW}]$

c) Detector = Peak.

d) Trace mode = max-hold.

e) Sweep=No faster than coupled (auto) time

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.

7.3.6 Test Results

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Donjon Huang

Test data reference attachment.

7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW $\geq$ RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

Measure T_{total} and T_{on}

Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Donjon Huang

Test data reference attachment.

7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

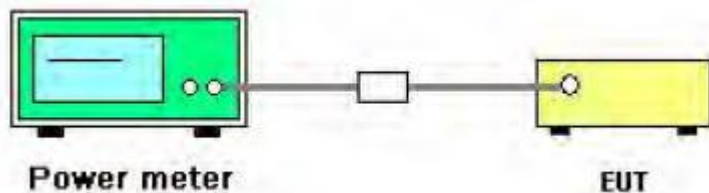
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	AV

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.2.3.1 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.

7.5.7 Test Results

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Donjon Huang

Test data reference attachment.

7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.5 of ANSI C63.10

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

- a) Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to at least 1.5 times the OBW.
- d) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- e) Set VBW $\geq [3 \times \text{RBW}]$.
- f) Detector = power averaging (rms) or sample detector (when rms not available).
- g) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- h) Sweep time = auto couple.
- i) Do not use sweep triggering; allow sweep to "free run."
- j) Employ trace averaging (rms) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- m) If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.6.6 Test Results

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Donjon Huang

Test data reference attachment.

7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	smartphone	Model No.:	A70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Donjon Huang

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -30dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test data reference attachment.

7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: 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.

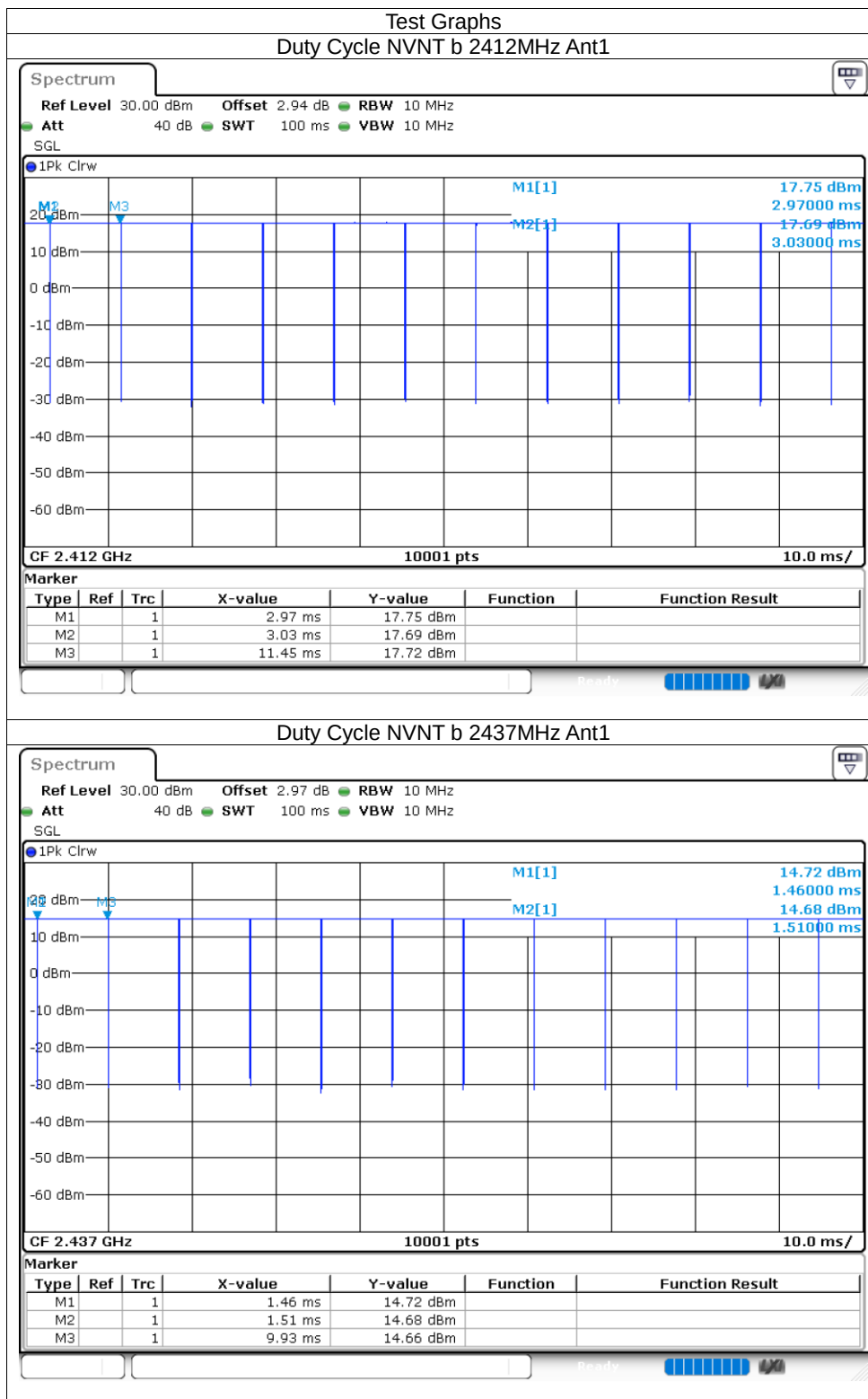
7.9.2 Result

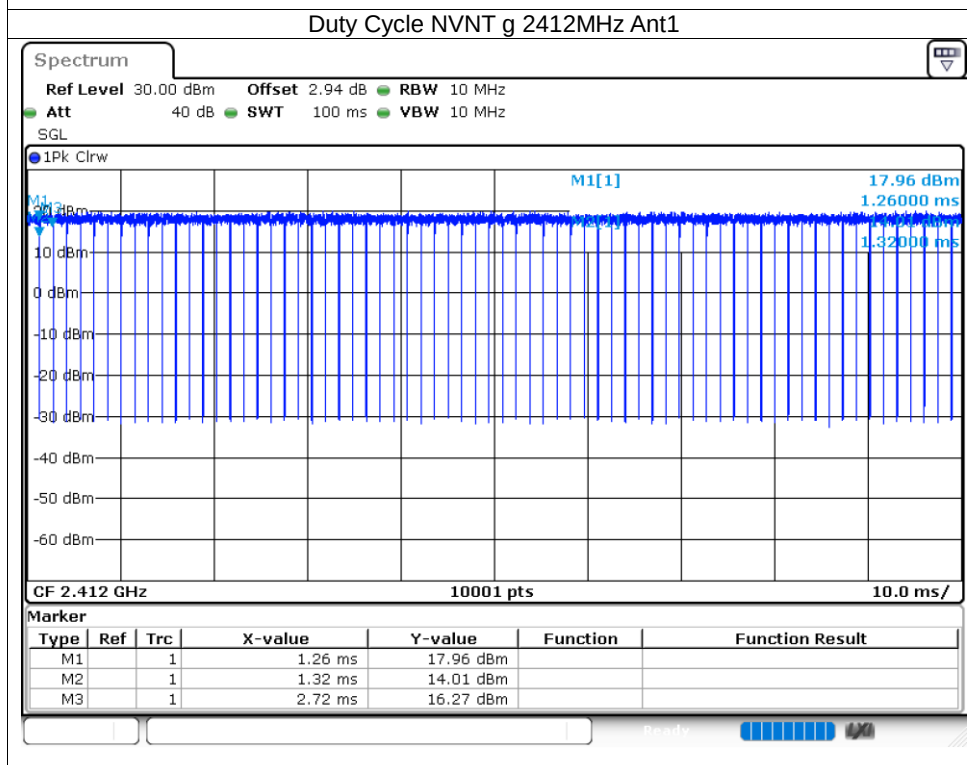
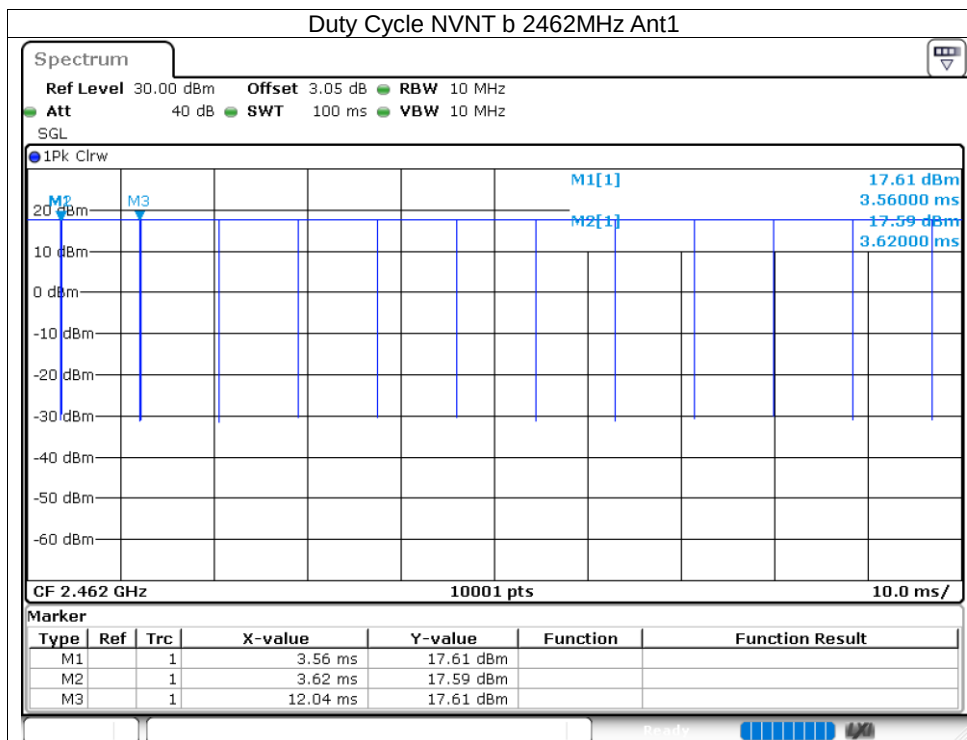
The EUT antenna is permanent attached PIFA Antenna (Gain: 0.23dBi). It comply with the standard requirement.

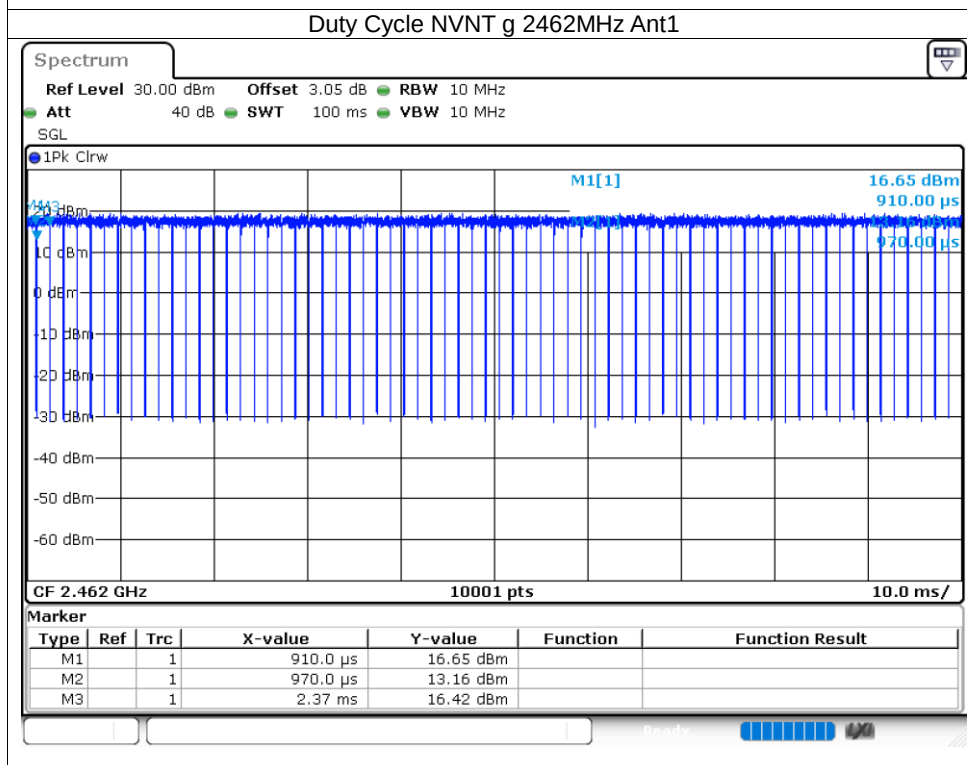
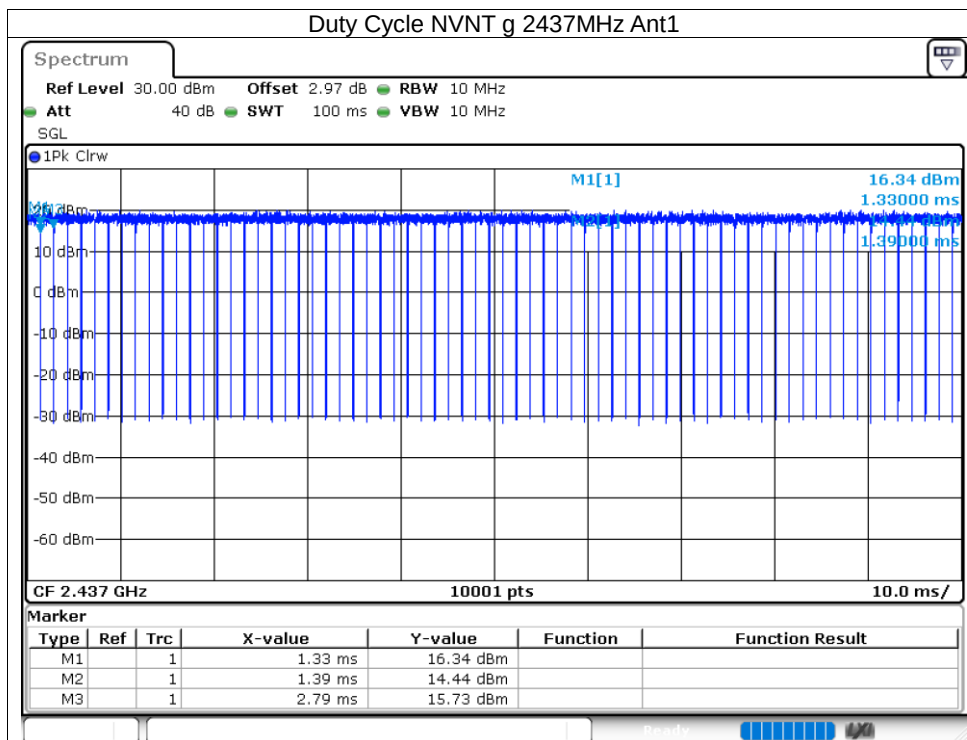
8 TEST RESULTS

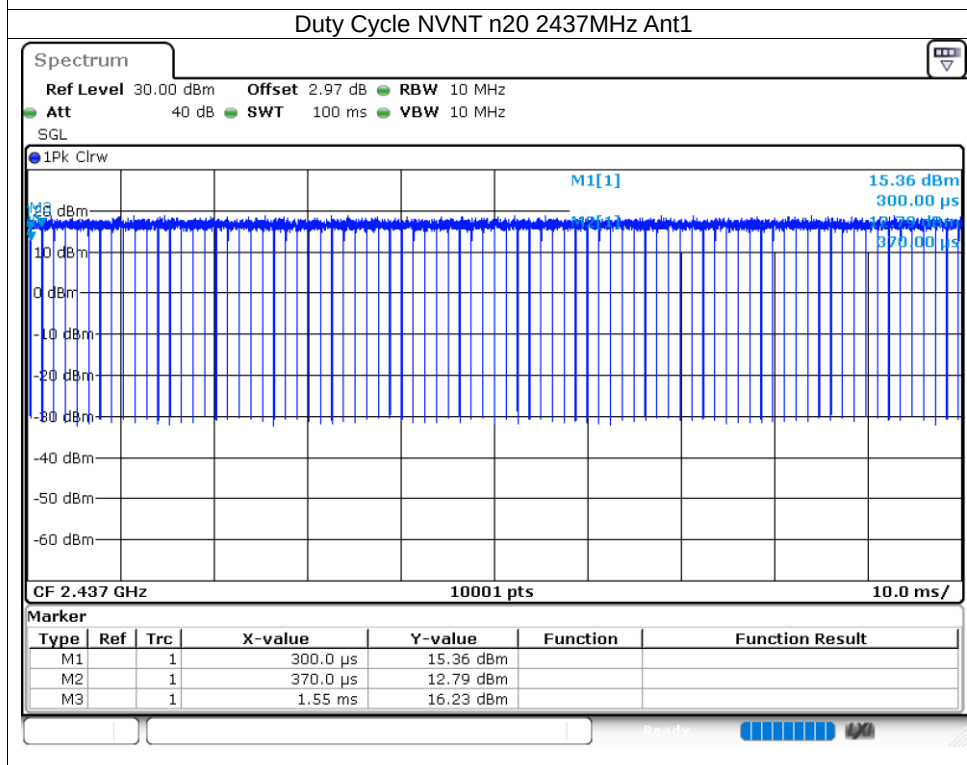
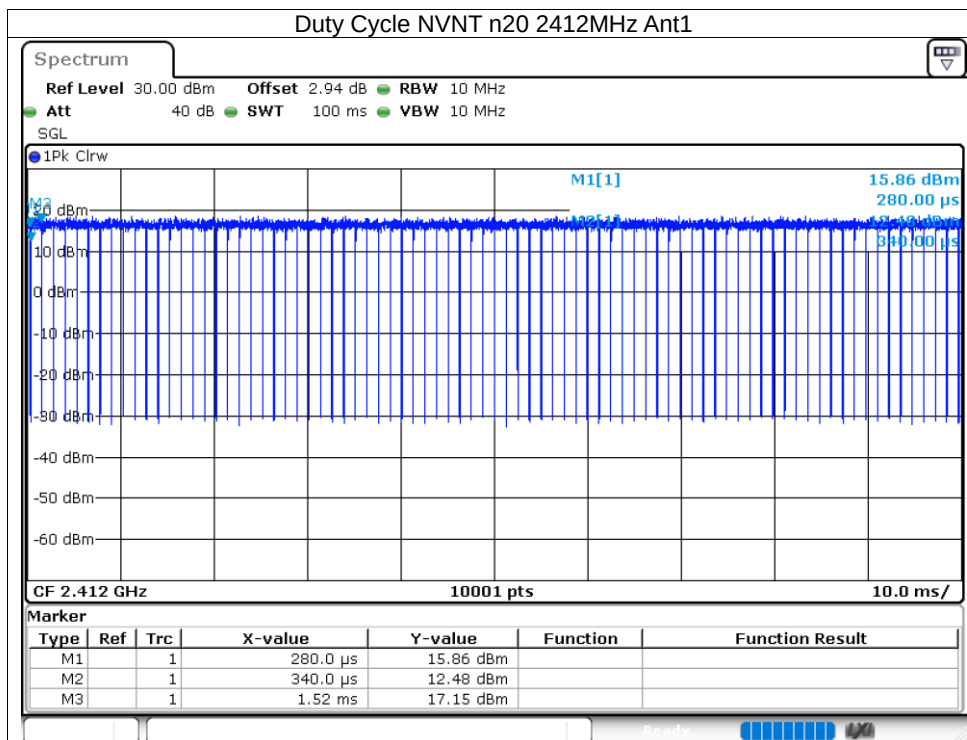
8.1 DUTY CYCLE

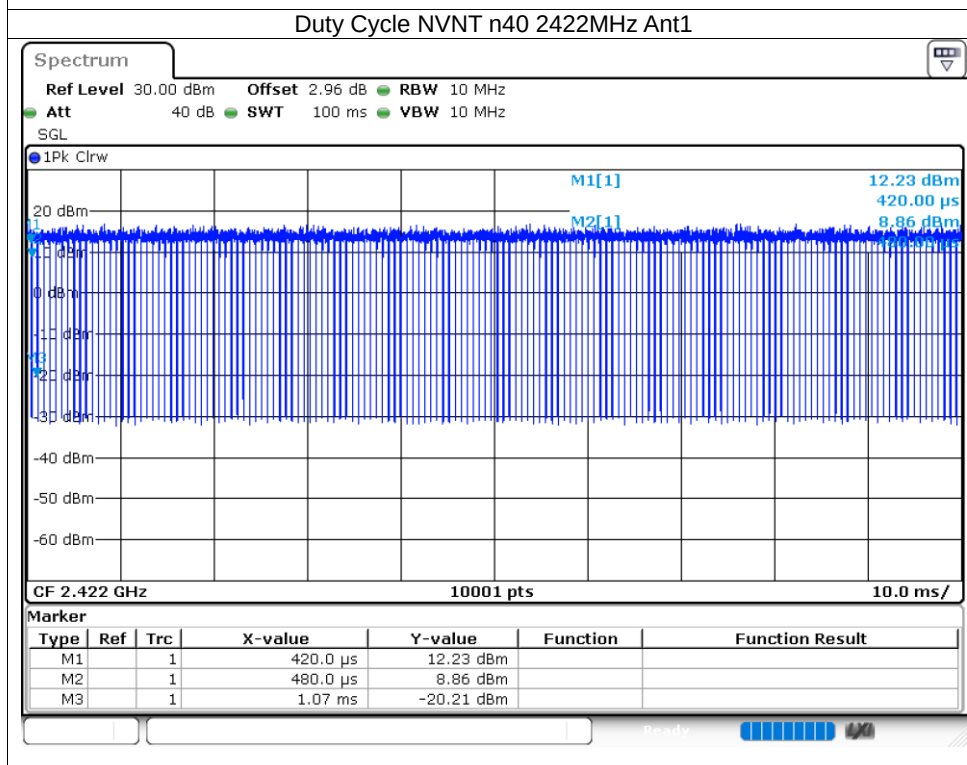
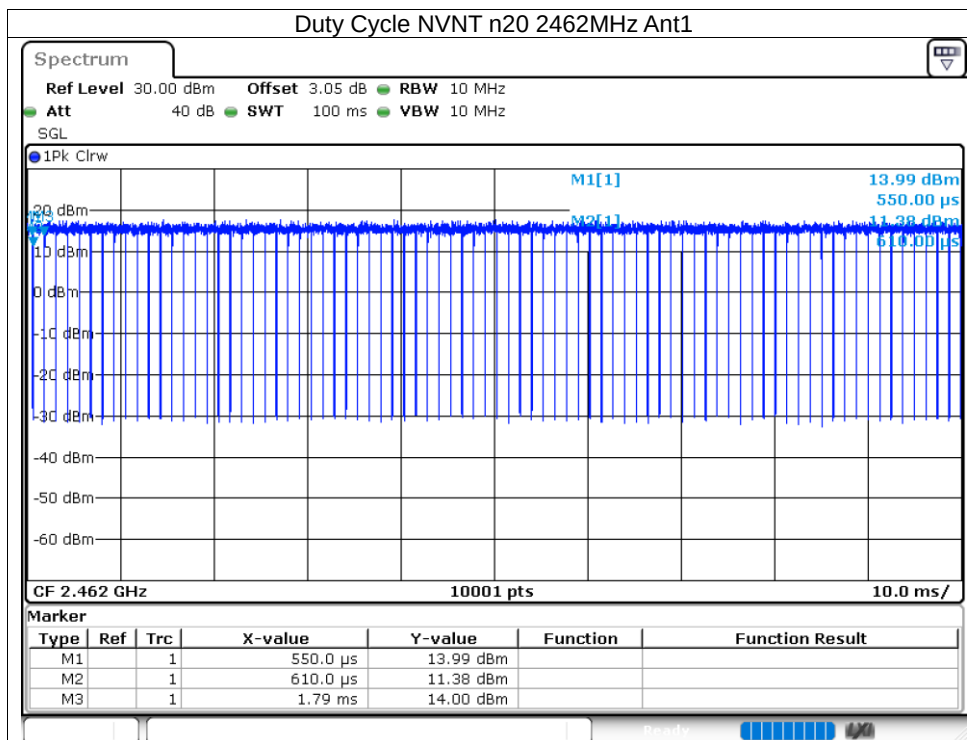
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.41	0.03	0.12
NVNT	b	2437	Ant1	99.43	0.02	0.12
NVNT	b	2462	Ant1	99.41	0.03	0.12
NVNT	g	2412	Ant1	96.58	0.15	0.71
NVNT	g	2437	Ant1	96.49	0.16	0.71
NVNT	g	2462	Ant1	96.48	0.16	0.71
NVNT	n20	2412	Ant1	95.79	0.19	0.85
NVNT	n20	2437	Ant1	95.88	0.18	0.85
NVNT	n20	2462	Ant1	95.92	0.18	0.85
NVNT	n40	2422	Ant1	92.27	0.35	1.69
NVNT	n40	2437	Ant1	92.08	0.36	1.72
NVNT	n40	2452	Ant1	92.66	0.33	1.69

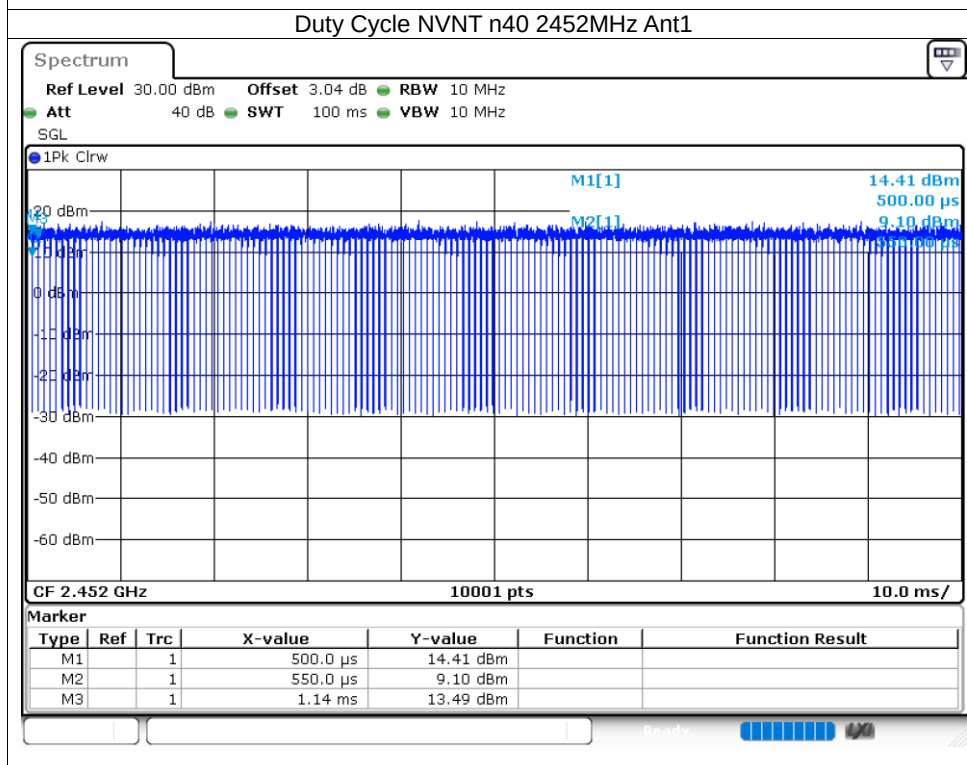
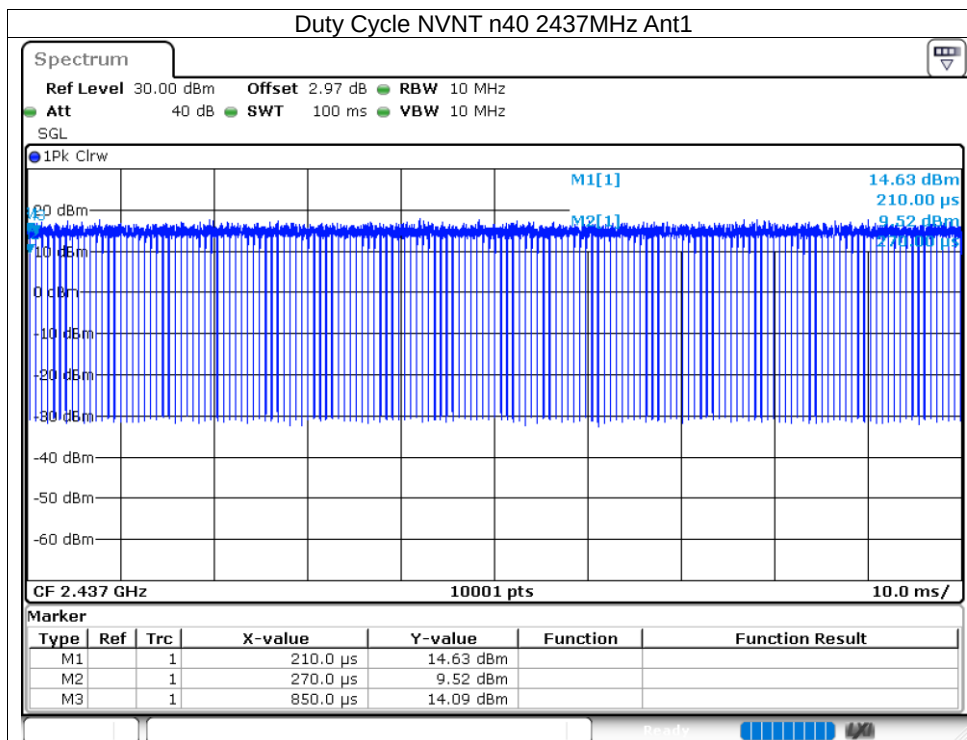












8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.82	0.03	14.85	30	Pass
NVNT	b	2437	Ant1	14.26	0.02	14.28	30	Pass
NVNT	b	2462	Ant1	14.58	0.03	14.61	30	Pass
NVNT	g	2412	Ant1	12.9	0.15	13.05	30	Pass
NVNT	g	2437	Ant1	12.53	0.16	12.69	30	Pass
NVNT	g	2462	Ant1	12.09	0.16	12.25	30	Pass
NVNT	n20	2412	Ant1	11.36	0.19	11.55	30	Pass
NVNT	n20	2437	Ant1	10.93	0.18	11.11	30	Pass
NVNT	n20	2462	Ant1	10.52	0.18	10.70	30	Pass
NVNT	n40	2422	Ant1	10.89	0.35	11.24	30	Pass
NVNT	n40	2437	Ant1	11.01	0.36	11.37	30	Pass
NVNT	n40	2452	Ant1	10.67	0.33	11.00	30	Pass

8.3 -6dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.19	0.5	Pass
NVNT	b	2437	Ant1	8.55	0.5	Pass
NVNT	b	2462	Ant1	8.16	0.5	Pass
NVNT	g	2412	Ant1	30	0.5	Pass
NVNT	g	2437	Ant1	16.269	0.5	Pass
NVNT	g	2462	Ant1	16.395	0.5	Pass
NVNT	n20	2412	Ant1	17.289	0.5	Pass
NVNT	n20	2437	Ant1	15.945	0.5	Pass
NVNT	n20	2462	Ant1	17.451	0.5	Pass
NVNT	n40	2422	Ant1	35.496	0.5	Pass
NVNT	n40	2437	Ant1	33.258	0.5	Pass
NVNT	n40	2452	Ant1	34.644	0.5	Pass

