

FCC RADIO TEST REPORT

FCC ID: 2AZYA-A70

Product: smartphone

Trade Mark: ACER

Model No.: A70

Family Model: N/A

Report No.: N26062907312E

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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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

Trademark : ACER

Model and/or type reference : A70

Family Model : N/A

Test Sample Number : S2605110076-1#

Standards : FCC Part15.407

Test procedure : ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to
C63.10a-2024

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D03 Client Without DFS New Rules v01r02

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

This device described above has been tested by NTEK, 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.

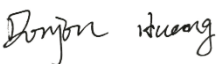
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Date of Test

Date (s) of performance of tests Jun. 29, 2026 ~ Aug 13, 2026

Date of Issue Aug 13, 2026

Test Result **Pass**

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Revision History

Report No.	Version	Description	Issued Date
N26062907312E	Rev.01	Initial issue of report	Aug. 13, 2026

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 3)

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

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, China

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

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

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

Site Location : No. 24 Xinfu East Road Xiangshan Community, Xinqiao Street, Baoan District,
Shenzhen, Guangdong, China

1.2 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%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	smartphone	
Trade Mark	ACER	
Model Name	A70	
Family Model	N/A	
Model Difference	N/A	
FCC ID	2AZYA-A70	
Product Description	Mode Supported	☒ 802.11a/n/ac (20MHz channel bandwidth) ☒ 802.11n/ac (40MHz channel bandwidth) ☒ 802.11ac (80MHz channel bandwidth)
	Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n (20MHz): MCS0-15, up to 144Mbps 802.11n (40MHz): MCS0-15, up to 300Mbps 802.11ac (20MHz): MCS0-8, up to 173.4Mbps 802.11ac (40MHz): MCS0-9, up to 400Mbps 802.11ac (80MHz): MCS0-9, up to 866.6Mbps
	Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11n: OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac: OFDM (QPSK/BPSK/16QAM/64QAM/256QAM)
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Type	PIFA antenna
	Antenna Gain	5.2G: 1.55 dBi 5.3G: 1.55 dBi 5.8G: 1.26 dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
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	DC 3.87V from battery or DC 5V/9V/12V from adapter	
Connecting I/O Port(s)	Please refer to the User's Manual	
HW Version	N/A	
FW version:	N/A	
SW Version	N/A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

2.2 DESCRIPTION OF TEST MODES

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

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH48/CH52/CH56/CH64/CH140/CH149/ CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46/CH54/CH62/ CH134/CH151/CH159
Mode 4	802.11ac80 CH42/CH58 /CH155

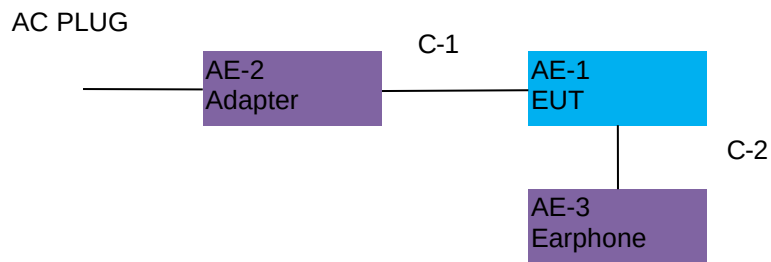
For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH48/CH52/CH56/CH64 /CH140/CH149/CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46/CH54/CH62 /CH134/CH151/CH159
Mode 4	802.11ac80 CH42/CH58 /CH155

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

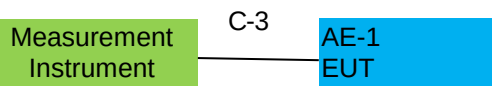
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.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.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	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	1.2m
C-2	RF Cable	YES	NO	0.1m
C-3	Earphone Cable	NO	NO	1.2m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 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	ESPI3	100145	2026.04.08	2027.04.07	1 year
5	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	2026.04.11	2027.04.10	N/A
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	MWRFtest	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

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

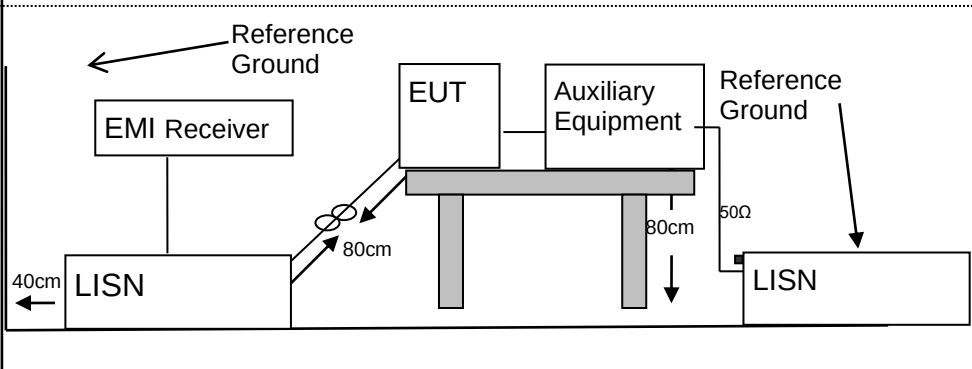
According to FCC Part 15.207(a)

3.1.2 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.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

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

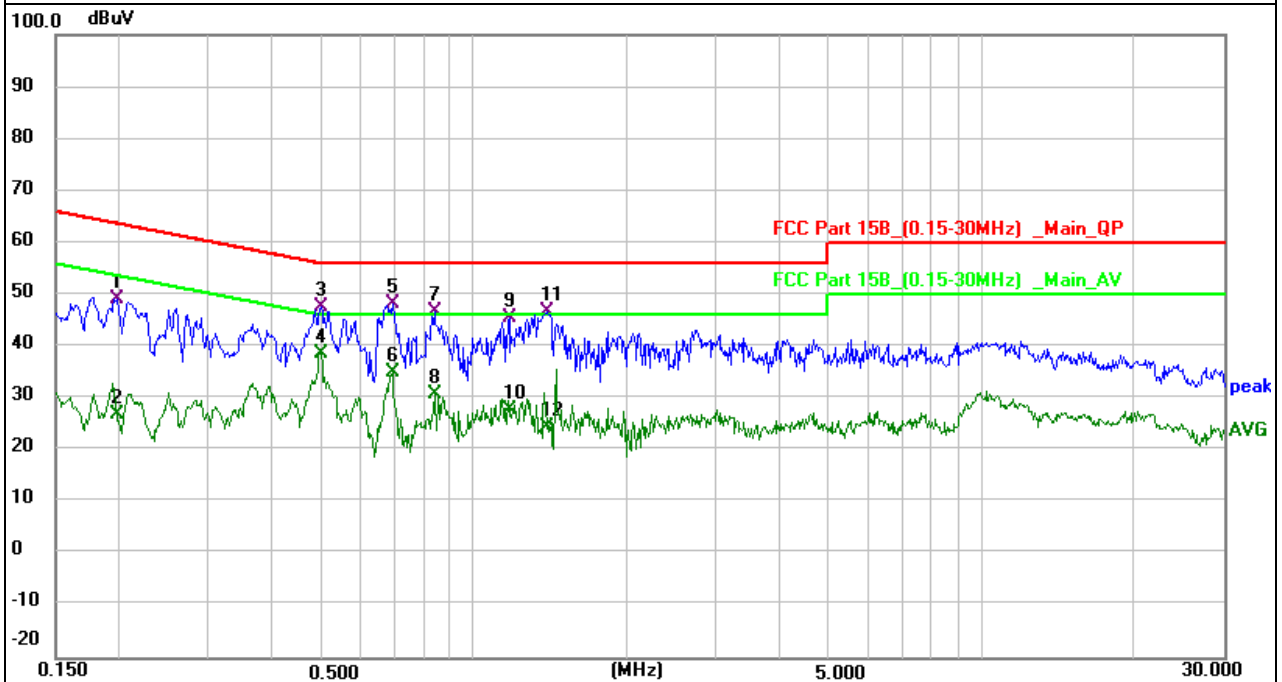
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The 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.

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 :	Mode 1(WIFI 5G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1975	28.80	20.44	49.24	63.72	-14.48	QP
0.1975	6.45	20.44	26.89	53.72	-26.83	AVG
0.4993	27.08	20.47	47.55	56.01	-8.46	QP
0.4993	18.32	20.47	38.79	46.01	-7.22	AVG
0.6900	27.79	20.44	48.23	56.00	-7.77	QP
0.6900	14.48	20.44	34.92	46.00	-11.08	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
1.1740	25.23	20.28	45.51	56.00	-10.49	QP
1.1740	7.61	20.28	27.89	46.00	-18.11	AVG
1.4020	26.48	20.28	46.76	56.00	-9.24	QP
1.4020	4.38	20.28	24.66	46.00	-21.34	AVG

Remark:

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

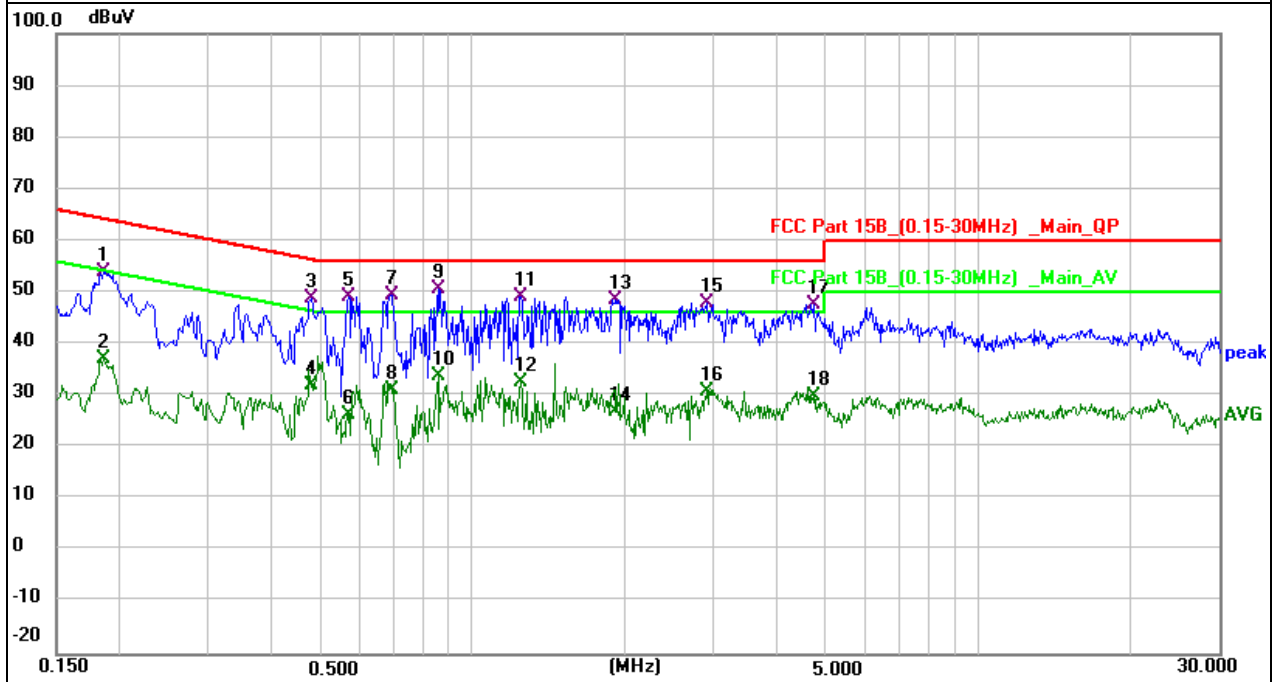


EUT :	smartphone	Model Name :	A70
Temperature :	25.7℃	Relative Humidity :	57.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(WIFI 5G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1860	33.68	20.39	54.07	64.21	-10.14	QP
0.1860	16.72	20.39	37.11	54.21	-17.10	AVG
0.4780	28.38	20.40	48.78	56.37	-7.59	QP
0.4780	11.53	20.40	31.93	46.37	-14.44	AVG
0.5670	28.66	20.44	49.10	56.00	-6.90	QP
0.5670	6.00	20.44	26.44	46.00	-19.56	AVG
0.6940	28.99	20.51	49.50	56.00	-6.50	QP
0.6940	10.53	20.51	31.04	46.00	-14.96	AVG
0.8540	30.24	20.41	50.65	56.00	-5.35	QP
0.8540	13.47	20.41	33.88	46.00	-12.12	AVG
1.2460	28.97	20.26	49.23	56.00	-6.77	QP
1.2460	12.26	20.26	32.52	46.00	-13.48	AVG
1.9220	28.34	20.26	48.60	56.00	-7.40	QP
1.9220	6.62	20.26	26.88	46.00	-19.12	AVG
2.9060	27.71	20.19	47.90	56.00	-8.10	QP
2.9060	10.63	20.19	30.82	46.00	-15.18	AVG
4.7300	27.52	20.25	47.77	56.00	-8.23	QP
4.7300	9.75	20.25	30.00	46.00	-16.00	AVG

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407 and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407: 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			

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 (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/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 (uV/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);

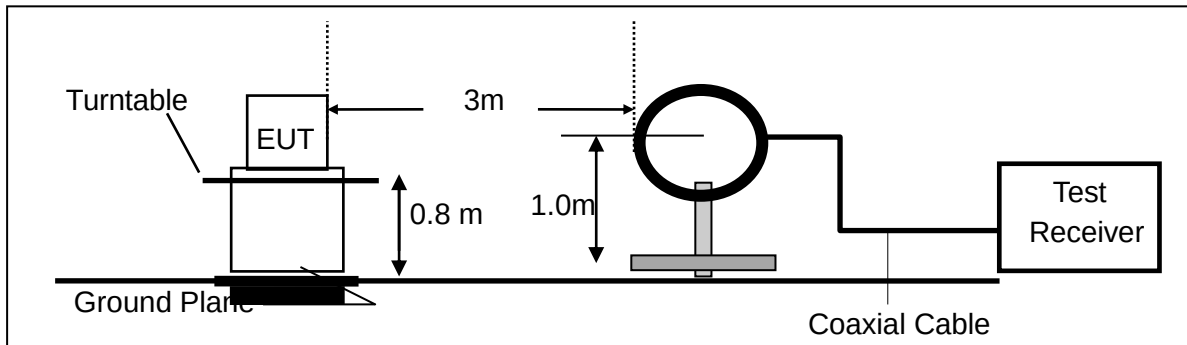
Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

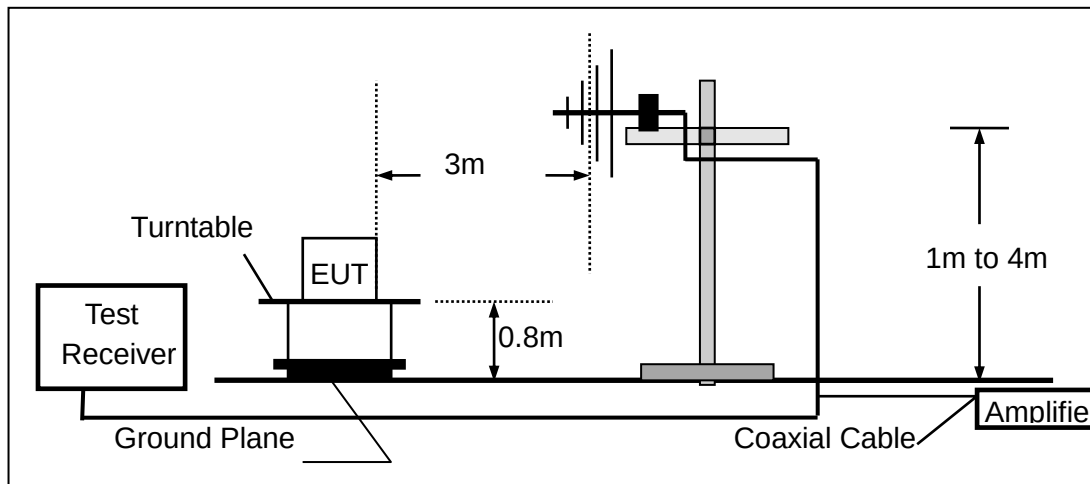
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

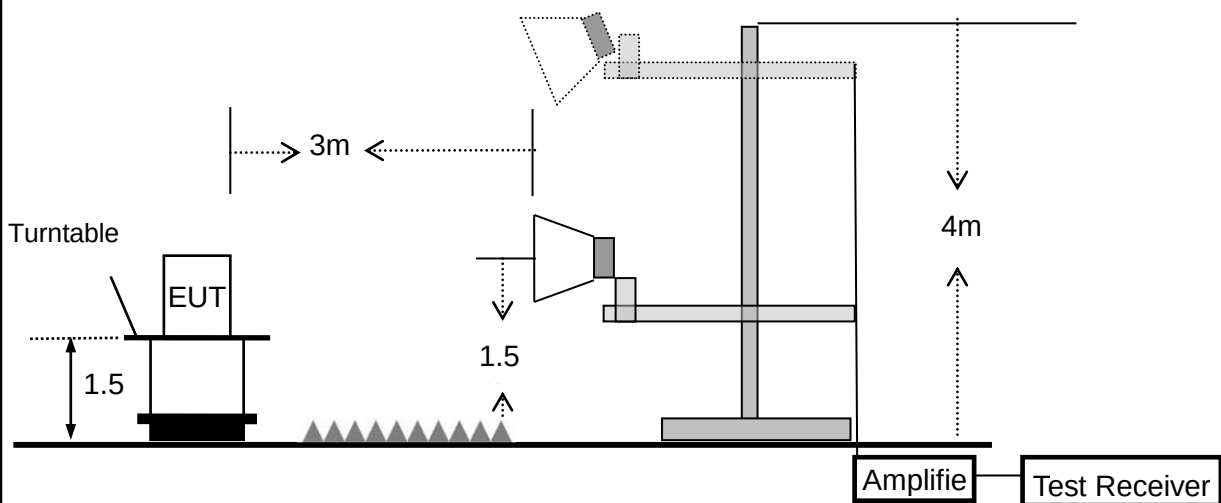
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10 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 / 10Hz 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. For frequencies above 1GHz, any suitable measuring distance may be used.
- 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.
- 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:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

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.

3.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX	Polarization :	--

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

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

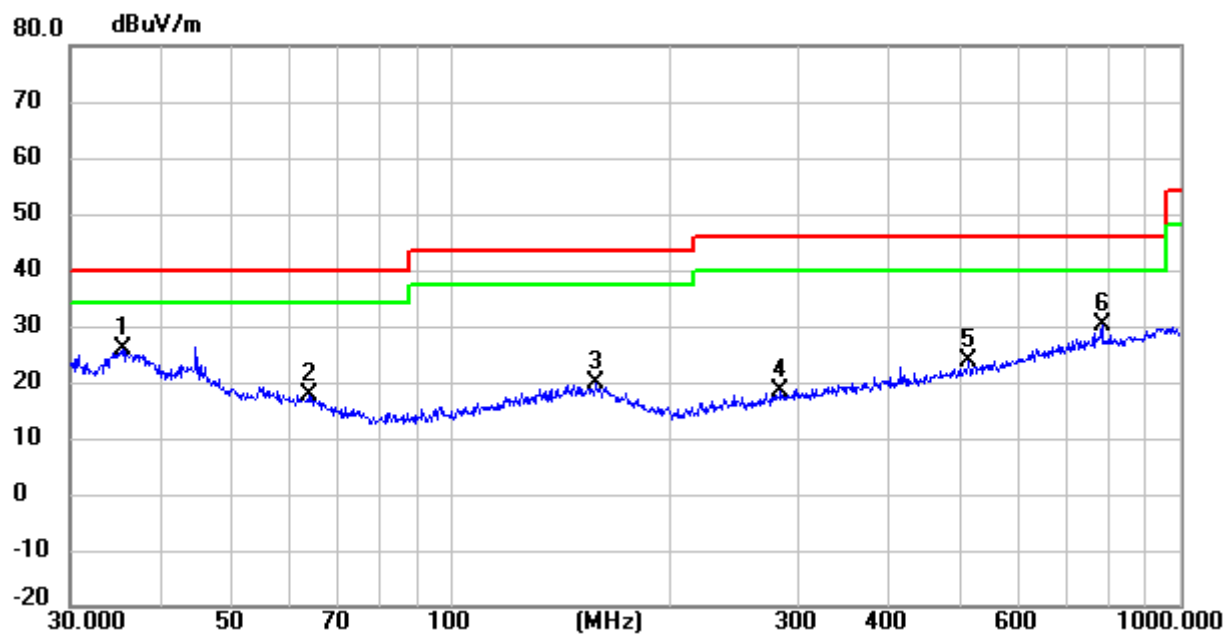
3.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	smartphone	Model Name. :	A70
Temperature :	24.6℃	Relative Humidity :	50.7%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX(WIFI 5.2G)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	35.499	12.33	13.72	26.05	40.00	-13.95	peak
V	63.983	5.17	12.36	17.53	40.00	-22.47	peak
V	158.112	5.14	14.68	19.82	43.50	-23.68	peak
V	282.985	5.10	13.16	18.26	46.00	-27.74	peak
V	513.633	6.39	17.47	23.86	46.00	-22.14	peak
V	782.345	7.84	22.20	30.04	46.00	-15.96	peak

Remark:

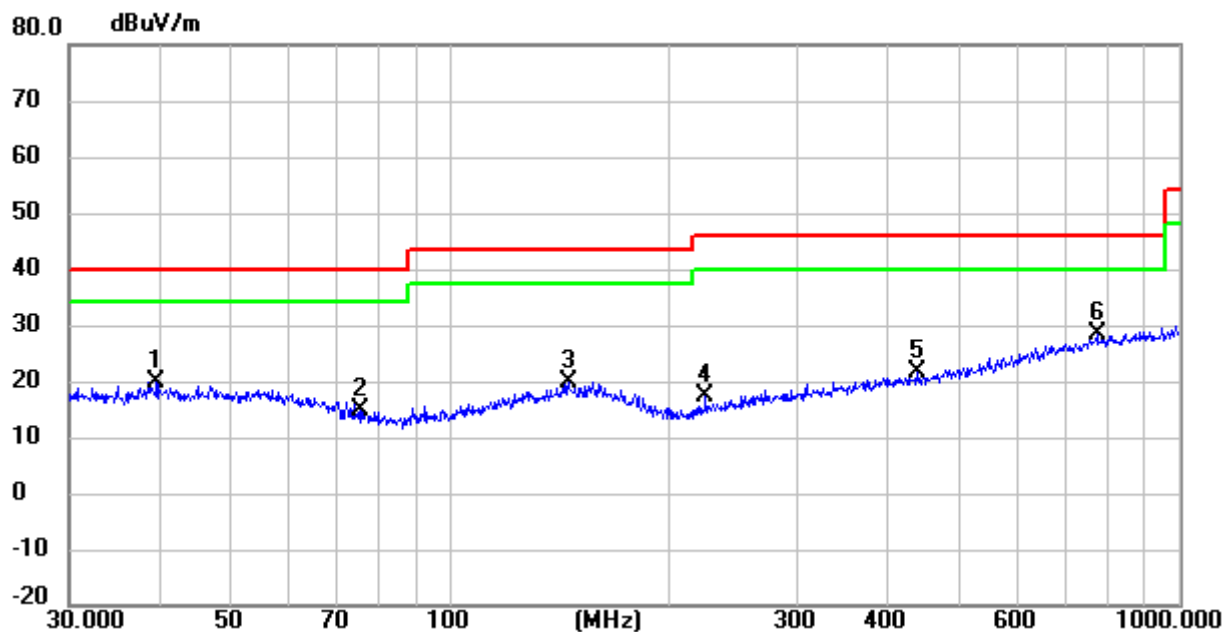
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	39.576	5.50	14.29	19.79	40.00	-20.21	peak
H	75.182	4.38	10.44	14.82	40.00	-25.18	peak
H	145.351	5.53	14.38	19.91	43.50	-23.59	peak
H	224.519	5.76	11.54	17.30	46.00	-28.70	peak
H	437.120	5.46	16.19	21.65	46.00	-24.35	peak
H	771.449	6.47	22.08	28.55	46.00	-17.45	peak

Remark:

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



Note (1) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	smartphone	Model Name. :	A70
Temperature :	23.5 °C	Relative Humidity :	49.4%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX(5.2G) - 802.11a_5180~5240MHz		

5180

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1066.725	59.82	-18.30	41.52	74.00	-32.48	peak
V	1066.725	51.30	-18.30	33.00	54.00	-21.00	AVG
V	1979.625	55.01	-14.06	40.95	68.20	-27.25	peak
V	4144.575	48.97	-8.62	40.35	74.00	-33.65	peak
V	4144.575	41.27	-8.62	32.65	54.00	-21.35	AVG
V	6566.225	48.38	-3.33	45.05	68.20	-23.15	peak
V	12722.775	43.75	4.29	48.04	68.20	-20.16	peak
V	12722.775	36.71	4.29	41.00	68.20	-27.20	AVG
V	15212.000	43.11	5.94	49.05	68.20	-19.15	peak

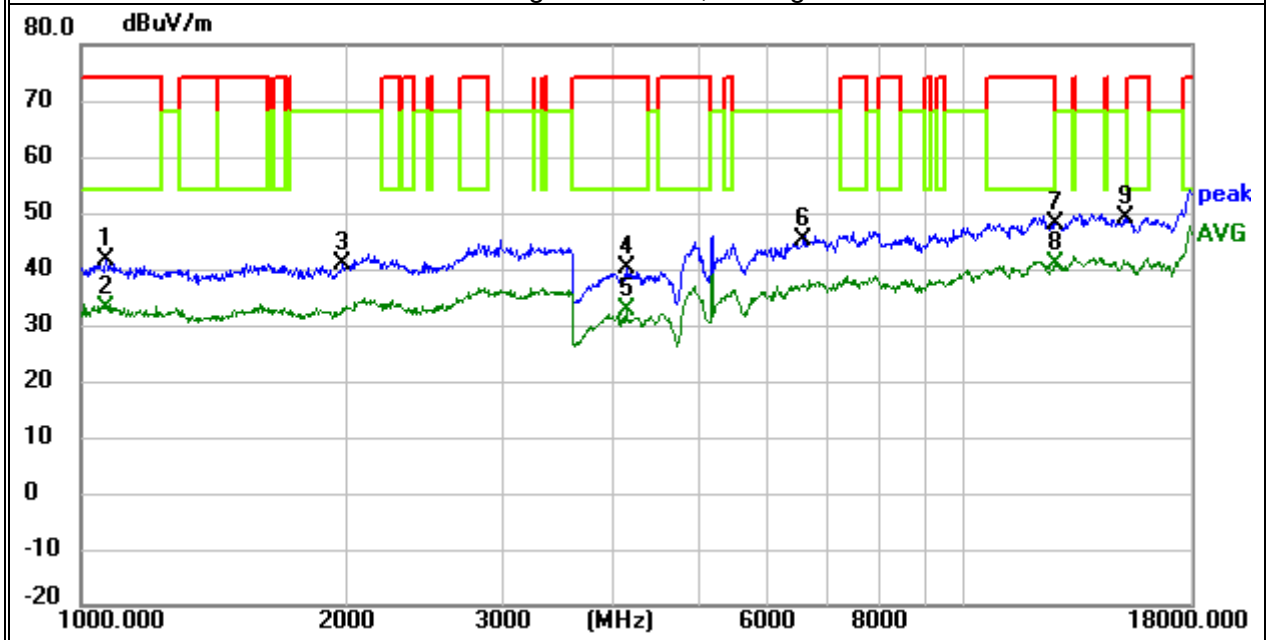
Remark:

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 802.11a. 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	1060.775	59.54	-18.36	41.18	74.00	-32.82	peak
H	1060.775	50.90	-18.36	32.54	54.00	-21.46	AVG
H	1979.200	55.00	-14.07	40.93	68.20	-27.27	peak
H	4144.575	50.16	-8.62	41.54	74.00	-32.46	peak
H	4144.575	46.74	-8.62	38.12	54.00	-15.88	AVG
H	6803.375	48.07	-3.24	44.83	68.20	-23.37	peak
H	12004.525	43.90	5.26	49.16	74.00	-24.84	peak
H	12004.525	35.97	5.26	41.23	54.00	-12.77	AVG
H	15297.850	43.20	5.95	49.15	68.20	-19.05	peak

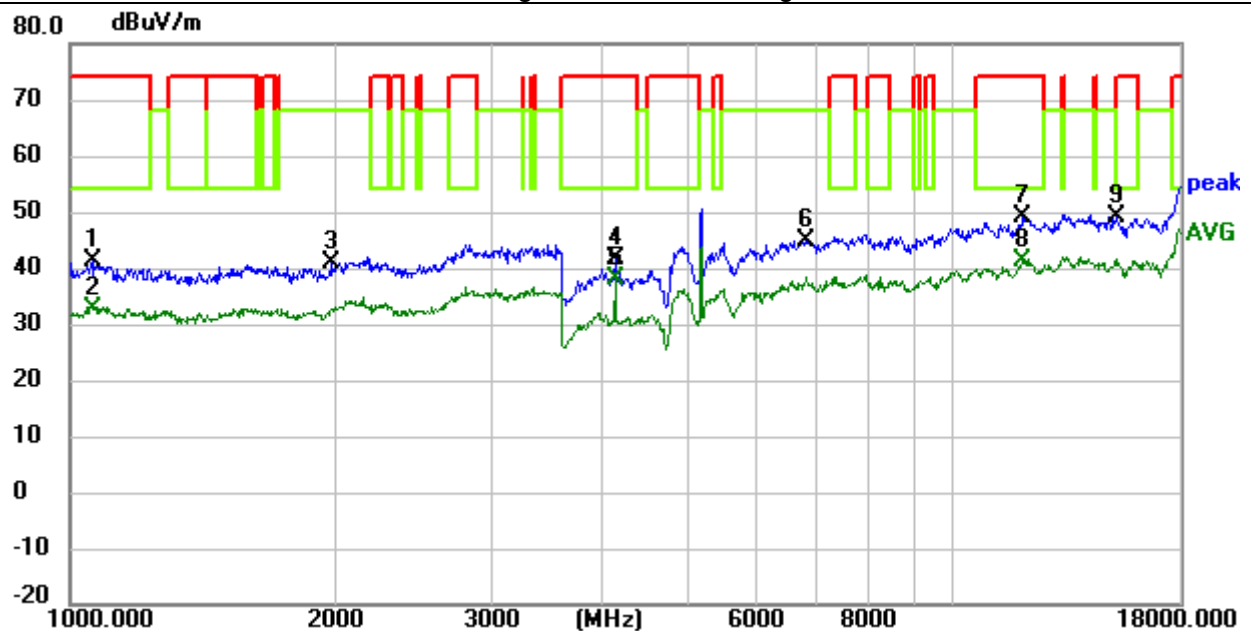
Remark:

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 802.11a. 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.



5200

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1030.600	59.60	-18.61	40.99	74.00	-33.01	peak
V	1030.600	50.70	-18.61	32.09	54.00	-21.91	AVG
V	2100.325	55.10	-12.48	42.62	68.20	-25.58	peak
V	3993.700	47.18	-7.96	39.22	74.00	-34.78	peak
V	3993.700	39.33	-7.96	31.37	54.00	-22.63	AVG
V	6394.100	48.91	-3.99	44.92	68.20	-23.28	peak
V	12172.400	44.18	4.56	48.74	74.00	-25.26	peak
V	12172.400	36.56	4.56	41.12	54.00	-12.88	AVG
V	16416.875	42.77	6.40	49.17	68.20	-19.03	peak

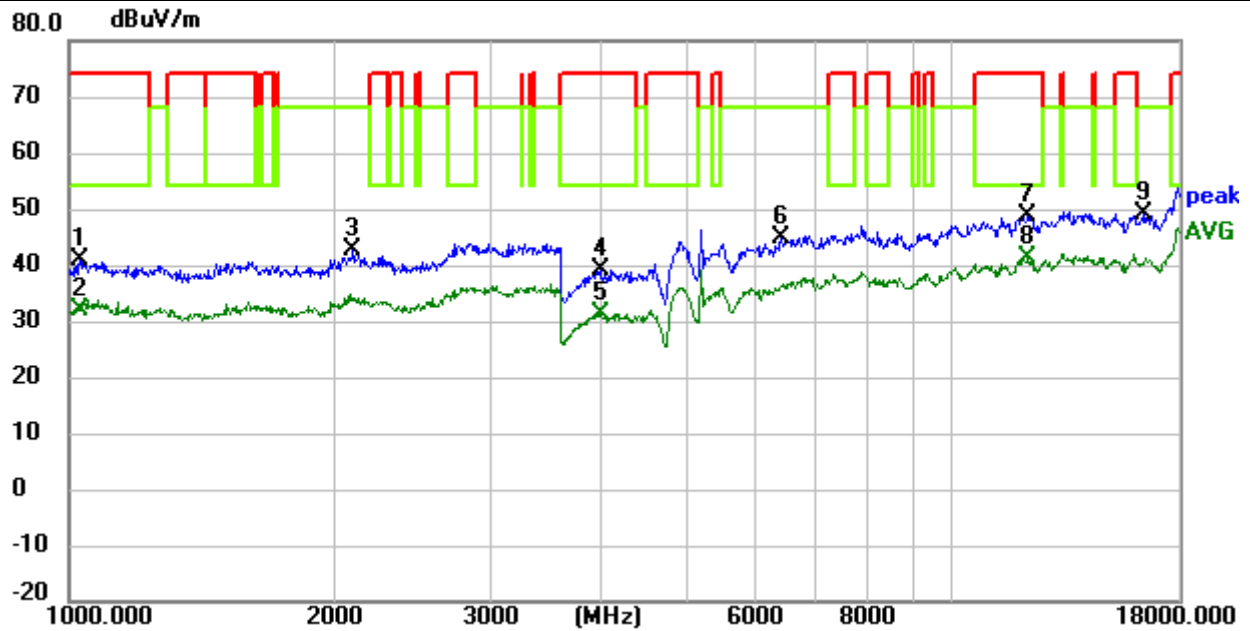
Remark:

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 802.11a. 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	1042.925	59.12	-18.52	40.60	74.00	-33.40	peak
H	1042.925	50.40	-18.52	31.88	54.00	-22.12	AVG
H	2082.050	54.60	-12.62	41.98	68.20	-26.22	peak
H	4160.300	50.09	-8.47	41.62	74.00	-32.38	peak
H	4160.300	45.94	-8.47	37.47	54.00	-16.53	AVG
H	6714.975	48.24	-3.10	45.14	68.20	-23.06	peak
H	12054.675	44.17	5.01	49.18	74.00	-24.82	peak
H	12054.675	36.27	5.01	41.28	54.00	-12.72	AVG
H	16543.100	42.17	6.38	48.55	68.20	-19.65	peak

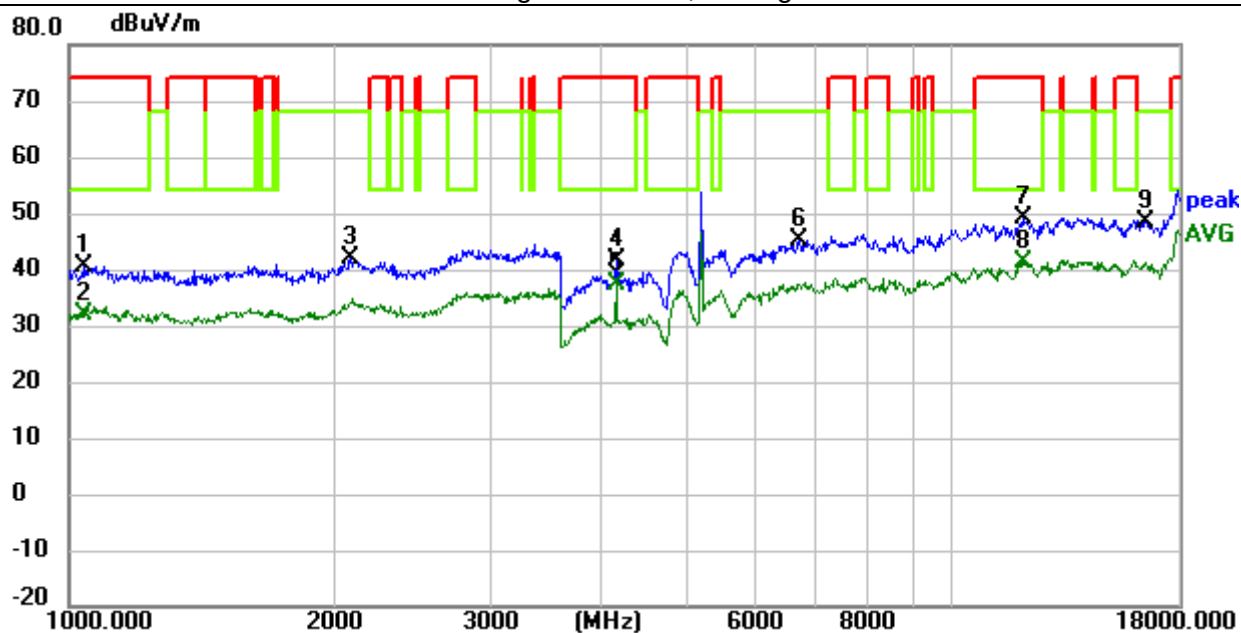
Remark:

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 802.11a. 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.



5240

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1059.075	59.80	-18.39	41.41	74.00	-32.59	peak
V	1059.075	51.10	-18.39	32.71	54.00	-21.29	AVG
V	2122.000	55.09	-12.61	42.48	68.20	-25.72	peak
V	4044.275	47.66	-8.42	39.24	74.00	-34.76	peak
V	4044.275	39.00	-8.42	30.58	54.00	-23.42	AVG
V	6510.975	49.53	-3.92	45.61	68.20	-22.59	peak
V	12704.075	43.74	4.31	48.05	68.20	-20.15	peak
V	12704.075	36.52	4.31	40.83	68.20	-27.37	AVG
V	14805.275	44.03	5.22	49.25	68.20	-18.95	peak

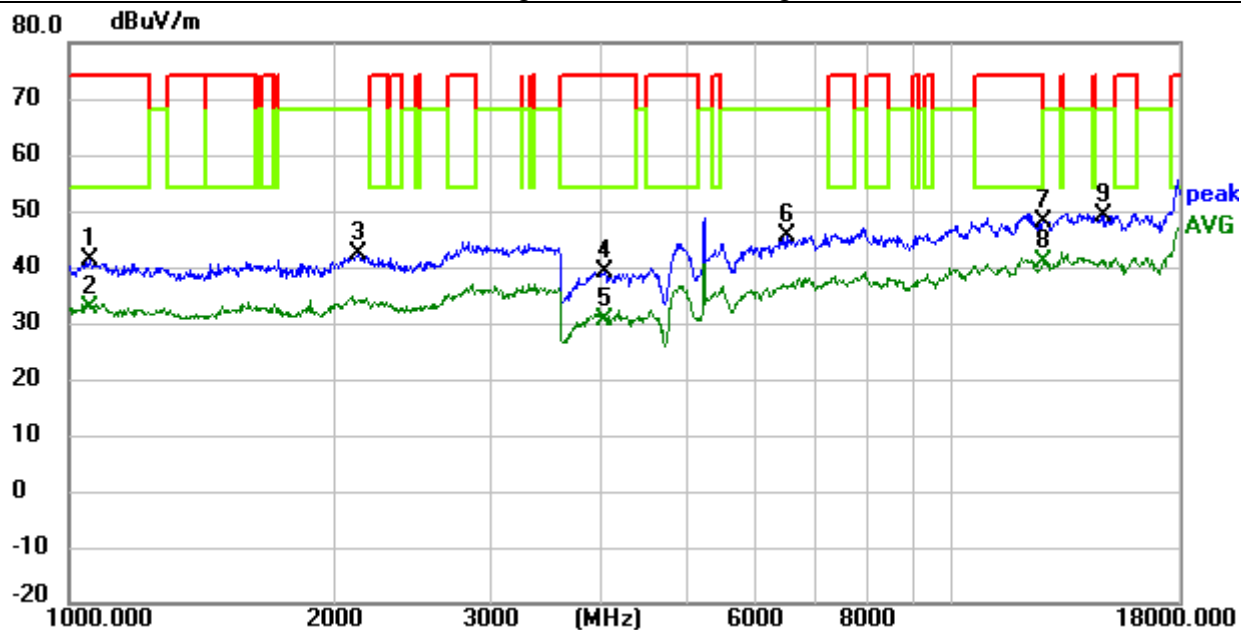
Remark:

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 802.11a. 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	1077.350	58.71	-18.19	40.52	74.00	-33.48	peak
H	1077.350	51.00	-18.19	32.81	54.00	-21.19	AVG
H	1854.250	55.75	-15.06	40.69	68.20	-27.51	peak
H	4192.600	50.44	-8.02	42.42	74.00	-31.58	peak
H	4192.600	45.59	-8.02	37.57	54.00	-16.43	AVG
H	6393.250	48.38	-3.99	44.39	68.20	-23.81	peak
H	12033.425	43.76	5.11	48.87	74.00	-25.13	peak
H	12033.425	35.77	5.11	40.88	54.00	-13.12	AVG
H	16577.525	42.00	6.48	48.48	68.20	-19.72	peak

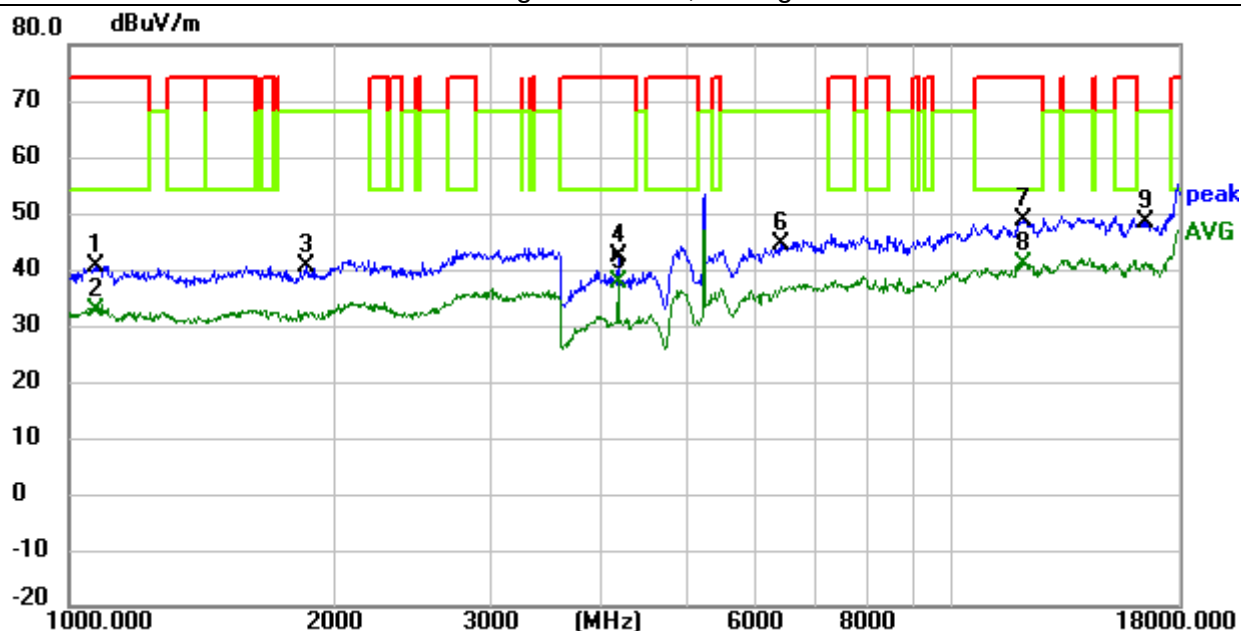
Remark:

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 802.11a. 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.



EUT :	smartphone	Model Name. :	A70
Temperature :	24.1 °C	Relative Humidity :	54.8%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX(5.3G) - 802.11a_5260~5320MHz		

5260

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1087.550	58.93	-18.09	40.84	74.00	-33.16	peak
V	1087.550	51.31	-18.09	33.22	54.00	-20.78	AVG
V	2119.875	55.21	-12.59	42.62	68.20	-25.58	peak
V	4007.725	47.36	-8.05	39.31	74.00	-34.69	peak
V	4007.725	39.80	-8.05	31.75	54.00	-22.25	AVG
V	6702.650	48.82	-2.88	45.94	68.20	-22.26	peak
V	12272.700	44.23	5.00	49.23	74.00	-24.77	peak
V	12272.700	36.05	5.00	41.05	54.00	-12.95	AVG
V	15272.350	42.65	5.95	48.60	68.20	-19.60	peak

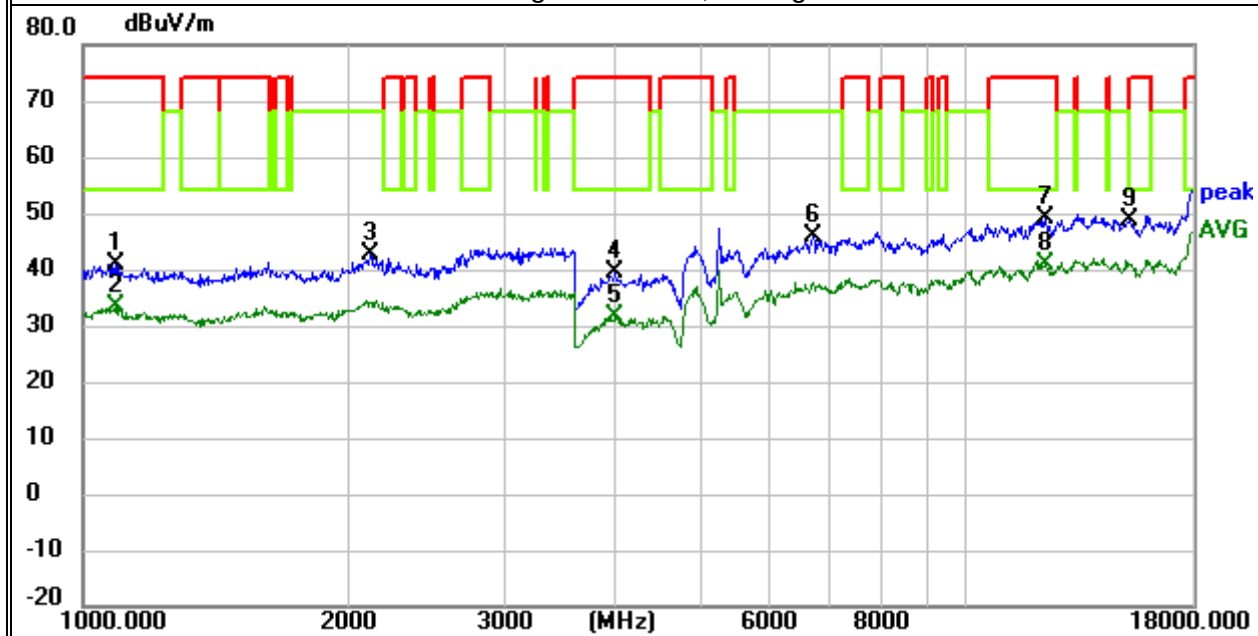
Remark:

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 802.11a. 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	1063.325	58.99	-18.33	40.66	74.00	-33.34	peak
H	1063.325	51.50	-18.33	33.17	54.00	-20.83	AVG
H	1883.150	55.11	-14.93	40.18	68.20	-28.02	peak
H	4208.325	49.11	-7.91	41.20	74.00	-32.80	peak
H	4208.325	44.69	-7.91	36.78	54.00	-17.22	AVG
H	6700.100	48.25	-2.83	45.42	68.20	-22.78	peak
H	11987.525	43.94	5.26	49.20	74.00	-24.80	peak
H	15306.775	43.31	5.91	49.22	68.20	-18.98	peak

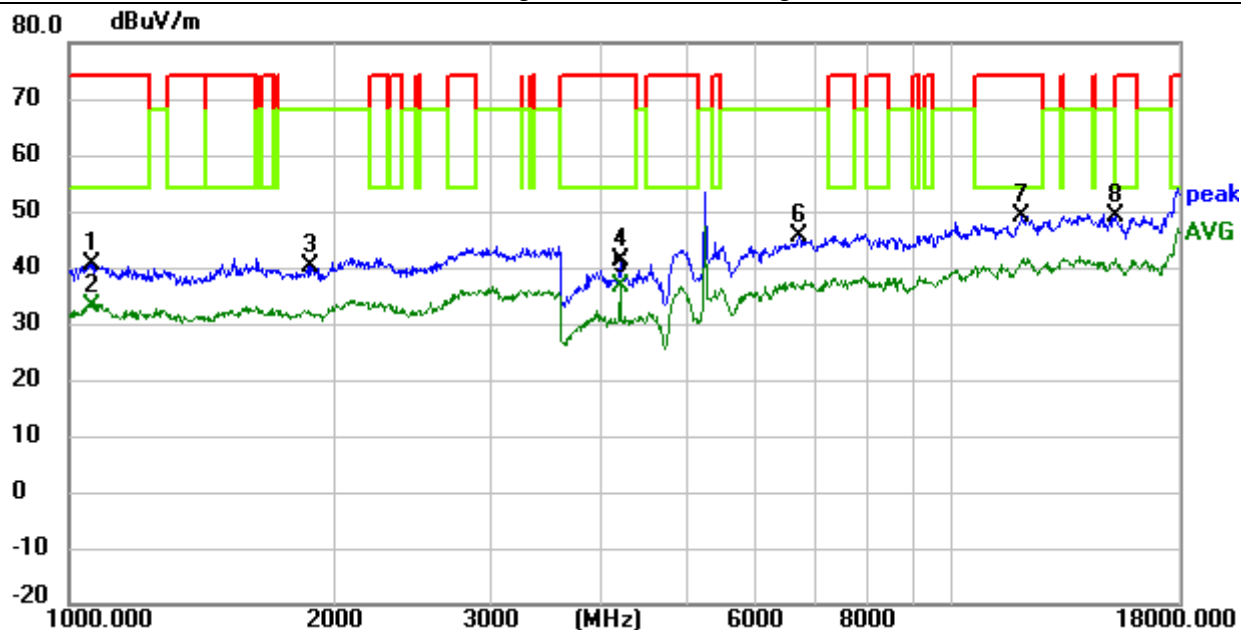
Remark:

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 802.11a. 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.



5280

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1057.375	59.81	-18.40	41.41	74.00	-32.59	peak
V	1057.375	51.01	-18.40	32.61	54.00	-21.39	AVG
V	2080.350	55.87	-12.65	43.22	68.20	-24.98	peak
V	3980.525	46.93	-7.99	38.94	74.00	-35.06	peak
V	3980.525	39.73	-7.99	31.74	54.00	-22.26	AVG
V	6561.975	48.49	-3.34	45.15	68.20	-23.05	peak
V	12190.250	44.11	4.52	48.63	74.00	-25.37	peak
V	12190.250	36.20	4.52	40.72	54.00	-13.28	AVG
V	16570.725	43.16	6.46	49.62	68.20	-18.58	peak

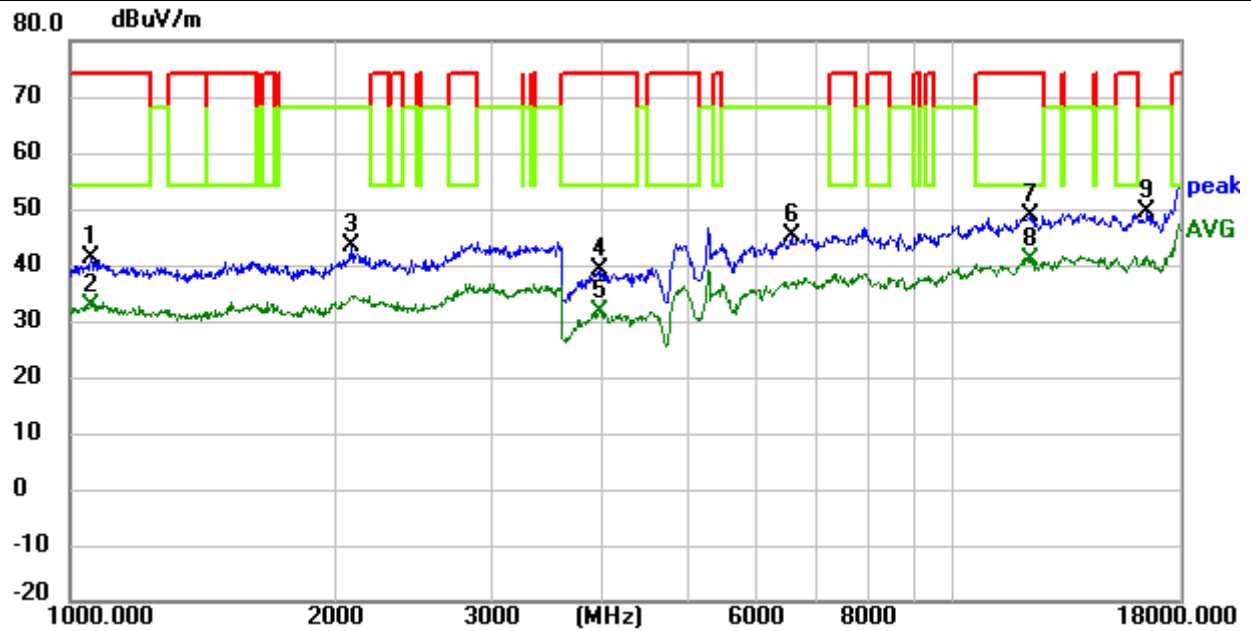
Remark:

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 802.11a. 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	1067.150	60.59	-18.29	42.30	74.00	-31.70	peak
H	1067.150	51.55	-18.29	33.26	54.00	-20.74	AVG
H	2131.350	55.34	-12.66	42.68	68.20	-25.52	peak
H	4224.475	49.12	-7.84	41.28	74.00	-32.72	peak
H	4224.475	44.51	-7.84	36.67	54.00	-17.33	AVG
H	6586.625	48.54	-3.28	45.26	68.20	-22.94	peak
H	11996.025	44.27	5.28	49.55	74.00	-24.45	peak
H	11996.025	36.48	5.28	41.76	54.00	-12.24	AVG
H	16574.125	44.41	6.47	50.88	68.20	-17.32	peak

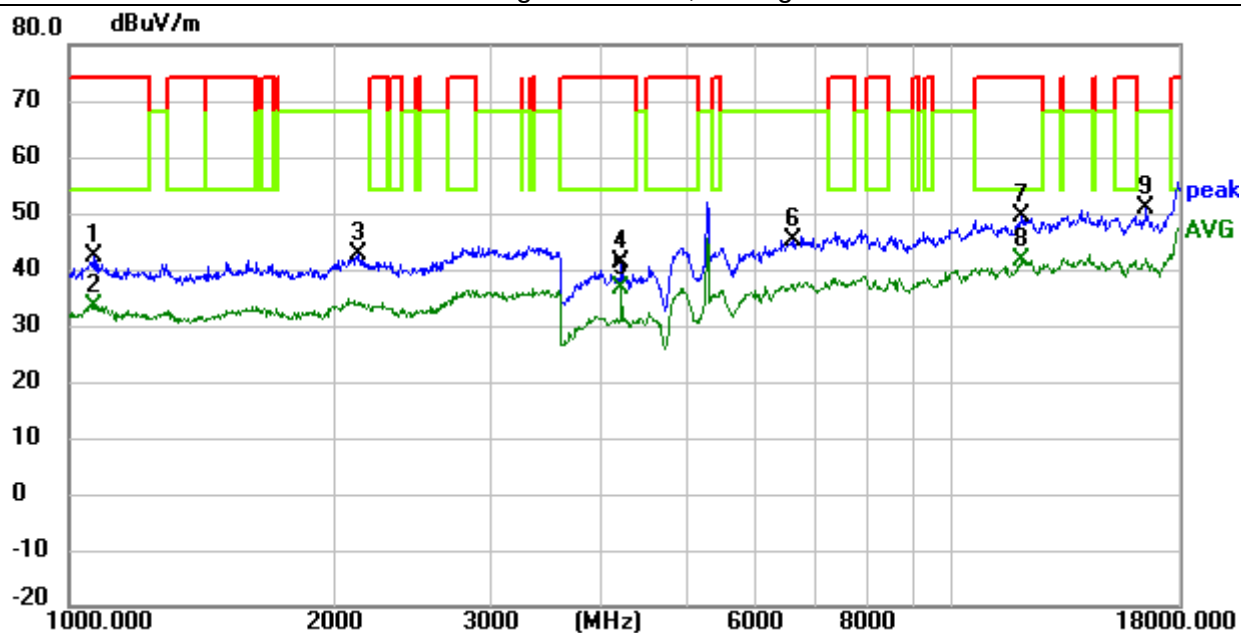
Remark:

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 802.11a. 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.



5320

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1111.350	59.46	-18.18	41.28	74.00	-32.72	peak
V	1111.350	50.30	-18.18	32.12	54.00	-21.88	AVG
V	1972.400	55.31	-14.22	41.09	68.20	-27.11	peak
V	4024.300	47.62	-8.21	39.41	74.00	-34.59	peak
V	4024.300	39.65	-8.21	31.44	54.00	-22.56	AVG
V	6306.125	48.53	-4.19	44.34	68.20	-23.86	peak
V	9284.950	45.41	0.27	45.68	68.20	-22.52	peak
V	12743.175	44.11	4.27	48.38	68.20	-19.82	peak
V	12743.175	36.33	4.27	40.60	68.20	-27.60	AVG

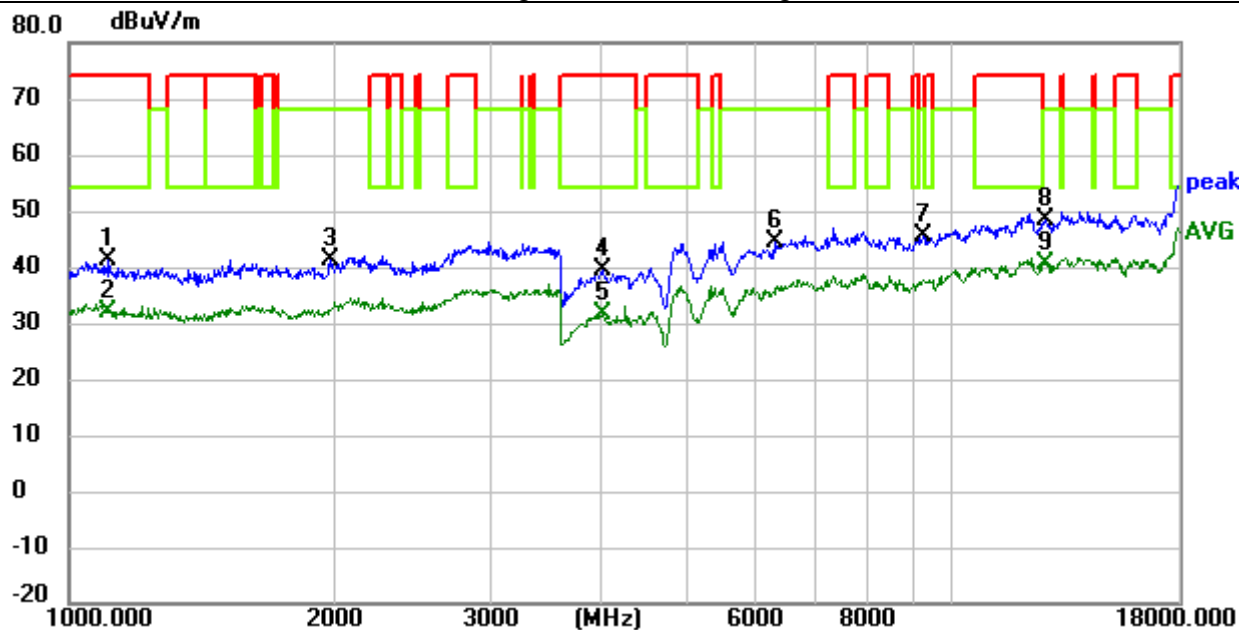
Remark:

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 802.11a. 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	1101.575	59.17	-17.98	41.19	74.00	-32.81	peak
H	1101.575	50.68	-17.98	32.70	54.00	-21.30	AVG
H	1961.775	55.23	-14.46	40.77	68.20	-27.43	peak
H	4256.350	50.67	-7.76	42.91	74.00	-31.09	peak
H	4256.350	45.86	-7.76	38.10	54.00	-15.90	AVG
H	6421.300	49.33	-4.02	45.31	68.20	-22.89	peak
H	12213.200	45.23	4.58	49.81	74.00	-24.19	peak
H	12213.200	37.26	4.58	41.84	54.00	-12.16	AVG
H	15280.425	43.46	5.95	49.41	68.20	-18.79	peak

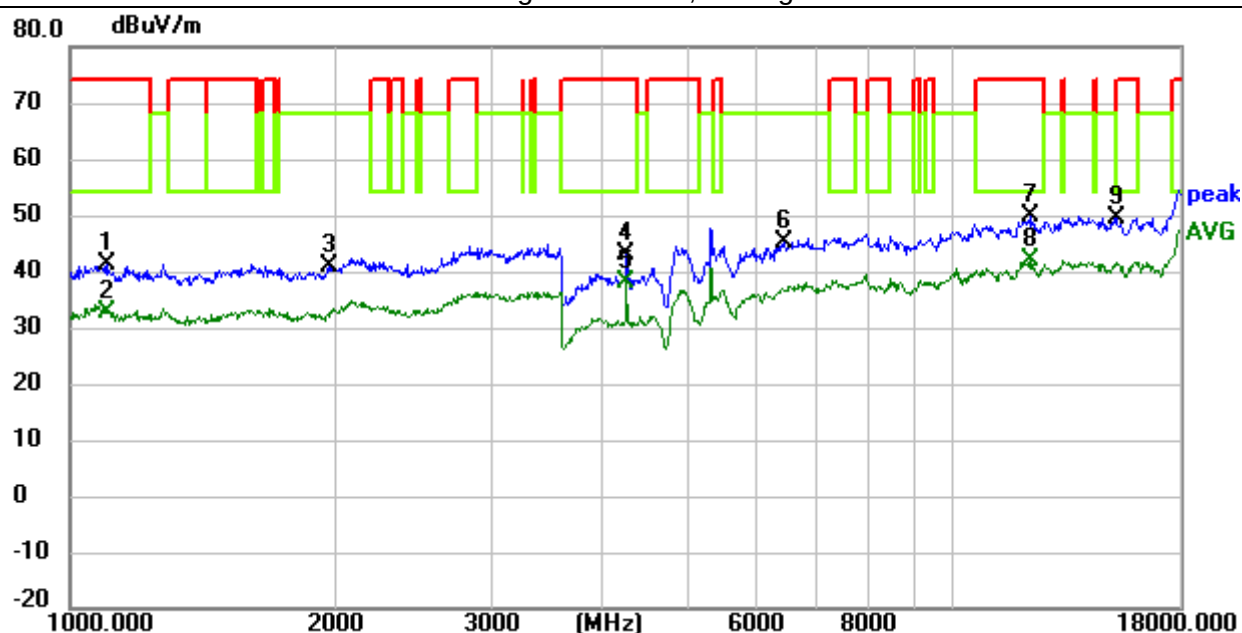
Remark:

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 802.11a. 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.



EUT :	smartphone	Model Name. :	A70
Temperature :	24.1 °C	Relative Humidity :	54.8%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX(5.8G) - 802.11a_5745~5825MHz		

5745

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1089.250	58.66	-18.06	40.60	74.00	-33.40	peak
V	1089.250	50.77	-18.06	32.71	54.00	-21.29	AVG
V	2086.300	54.79	-12.59	42.20	68.20	-26.00	peak
V	3958.850	47.12	-8.00	39.12	74.00	-34.88	peak
V	3958.850	39.40	-8.00	31.40	54.00	-22.60	AVG
V	6675.875	48.34	-3.23	45.11	68.20	-23.09	peak
V	12069.550	44.13	4.93	49.06	74.00	-24.94	peak
V	12069.550	36.38	4.93	41.31	54.00	-12.69	AVG
V	16597.075	42.69	6.54	49.23	68.20	-18.97	peak

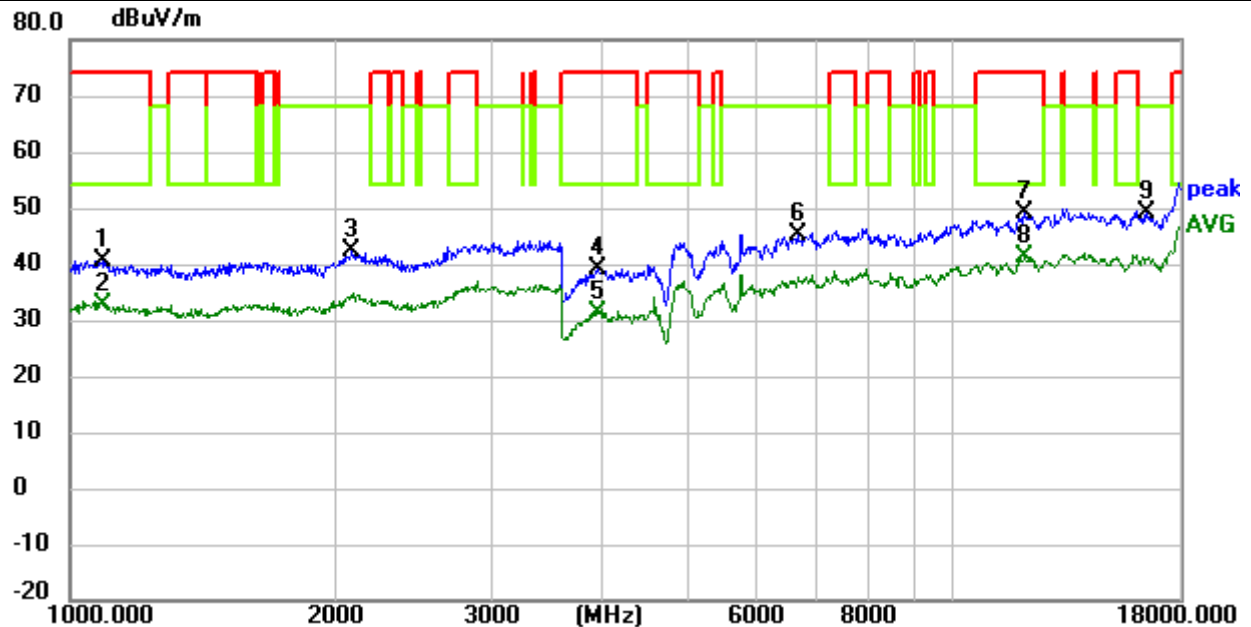
Remark:

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 802.11a. 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	1075.225	59.83	-18.21	41.62	74.00	-32.38	peak
H	1075.225	51.47	-18.21	33.26	54.00	-20.74	AVG
H	1858.500	55.88	-15.04	40.84	68.20	-27.36	peak
H	4000.500	47.60	-7.97	39.63	74.00	-34.37	peak
H	4000.500	39.84	-7.97	31.87	54.00	-22.13	AVG
H	6743.450	49.59	-3.60	45.99	68.20	-22.21	peak
H	11948.850	44.59	5.21	49.80	74.00	-24.20	peak
H	11948.850	35.89	5.21	41.10	54.00	-12.90	AVG
H	16790.450	43.07	6.14	49.21	68.20	-18.99	peak

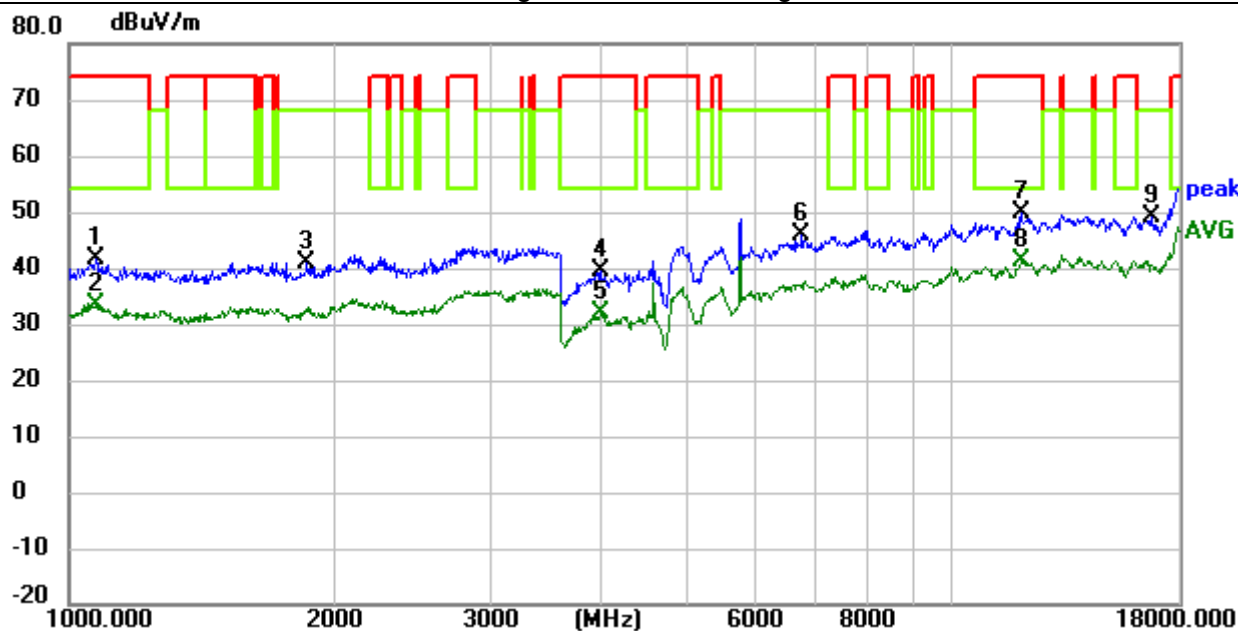
Remark:

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 802.11a. 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.



5785

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1031.025	59.11	-18.60	40.51	74.00	-33.49	peak
V	1031.025	51.91	-18.60	33.31	54.00	-20.69	AVG
V	2087.575	54.49	-12.58	41.91	68.20	-26.29	peak
V	4403.825	46.20	-7.78	38.42	68.20	-29.78	peak
V	4403.825	38.23	-7.78	30.45	68.20	-37.75	AVG
V	6403.450	49.07	-4.00	45.07	68.20	-23.13	peak
V	6403.450	40.41	-4.00	36.41	68.20	-31.79	AVG
V	12122.675	44.64	4.72	49.36	74.00	-24.64	peak
V	15290.625	43.25	5.95	49.20	68.20	-19.00	peak

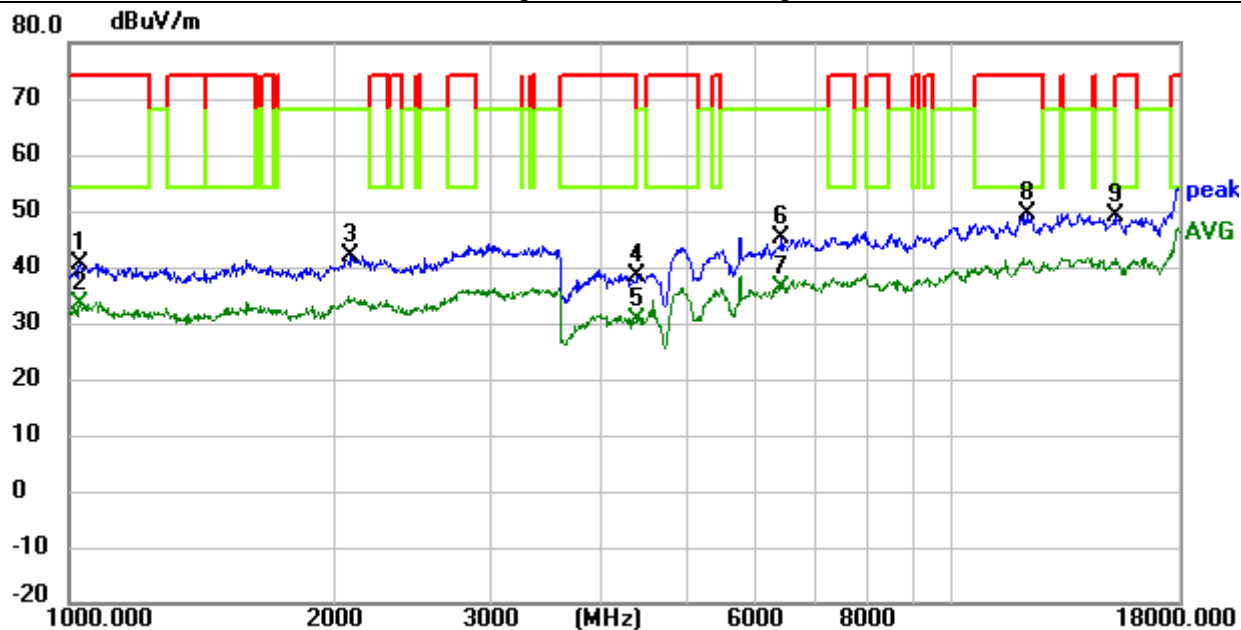
Remark:

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 802.11a. 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	1069.275	59.30	-18.27	41.03	74.00	-32.97	peak
H	1069.275	51.39	-18.27	33.12	54.00	-20.88	AVG
H	2089.700	54.83	-12.56	42.27	68.20	-25.93	peak
H	3992.000	47.33	-7.97	39.36	74.00	-34.64	peak
H	3992.000	39.23	-7.97	31.26	54.00	-22.74	AVG
H	6410.675	49.51	-4.01	45.50	68.20	-22.70	peak
H	12192.375	44.72	4.51	49.23	74.00	-24.77	peak
H	12192.375	36.27	4.51	40.78	54.00	-13.22	AVG
H	16574.975	42.67	6.47	49.14	68.20	-19.06	peak

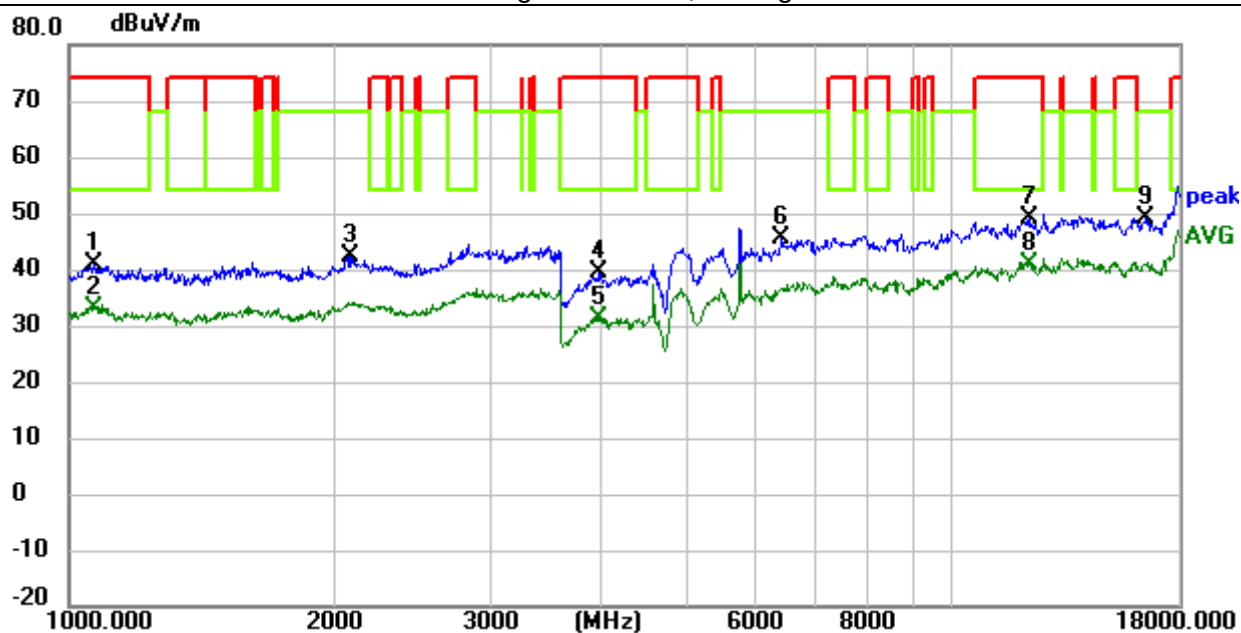
Remark:

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 802.11a. 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.



5825

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1042.500	59.67	-18.52	41.15	74.00	-32.85	peak
V	1042.500	51.16	-18.52	32.64	54.00	-21.36	AVG
V	2076.950	54.55	-12.67	41.88	68.20	-26.32	peak
V	4156.475	47.71	-8.52	39.19	74.00	-34.81	peak
V	4156.475	38.86	-8.52	30.34	54.00	-23.66	AVG
V	6833.550	48.74	-3.47	45.27	68.20	-22.93	peak
V	11651.350	46.37	2.75	49.12	74.00	-24.88	peak
V	11651.350	38.84	2.75	41.59	54.00	-12.41	AVG
V	16599.625	41.93	6.55	48.48	68.20	-19.72	peak

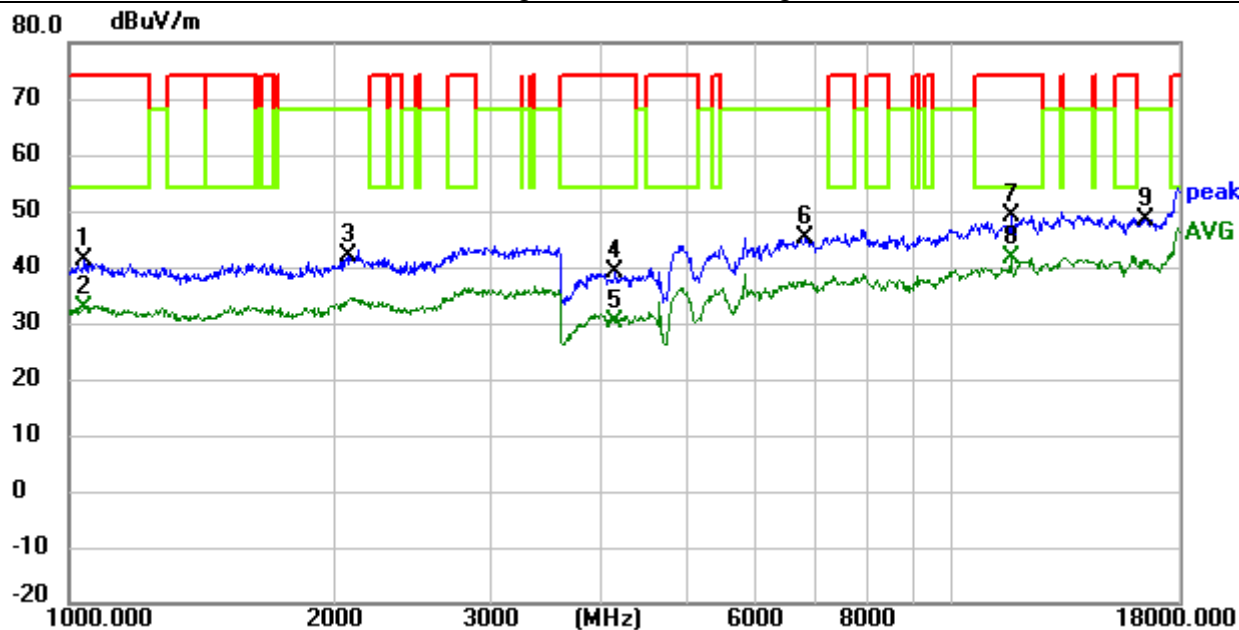
Remark:

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 802.11a. 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	1045.050	59.85	-18.51	41.34	74.00	-32.66	peak
H	1045.050	51.07	-18.51	32.56	54.00	-21.44	AVG
H	1999.600	55.39	-13.61	41.78	68.20	-26.42	peak
H	4039.175	48.02	-8.37	39.65	74.00	-34.35	peak
H	4039.175	39.49	-8.37	31.12	54.00	-22.88	AVG
H	6700.950	47.86	-2.85	45.01	68.20	-23.19	peak
H	12154.550	44.08	4.62	48.70	74.00	-25.30	peak
H	12154.550	36.36	4.62	40.98	54.00	-13.02	AVG
H	15285.950	43.10	5.94	49.04	68.20	-19.16	peak

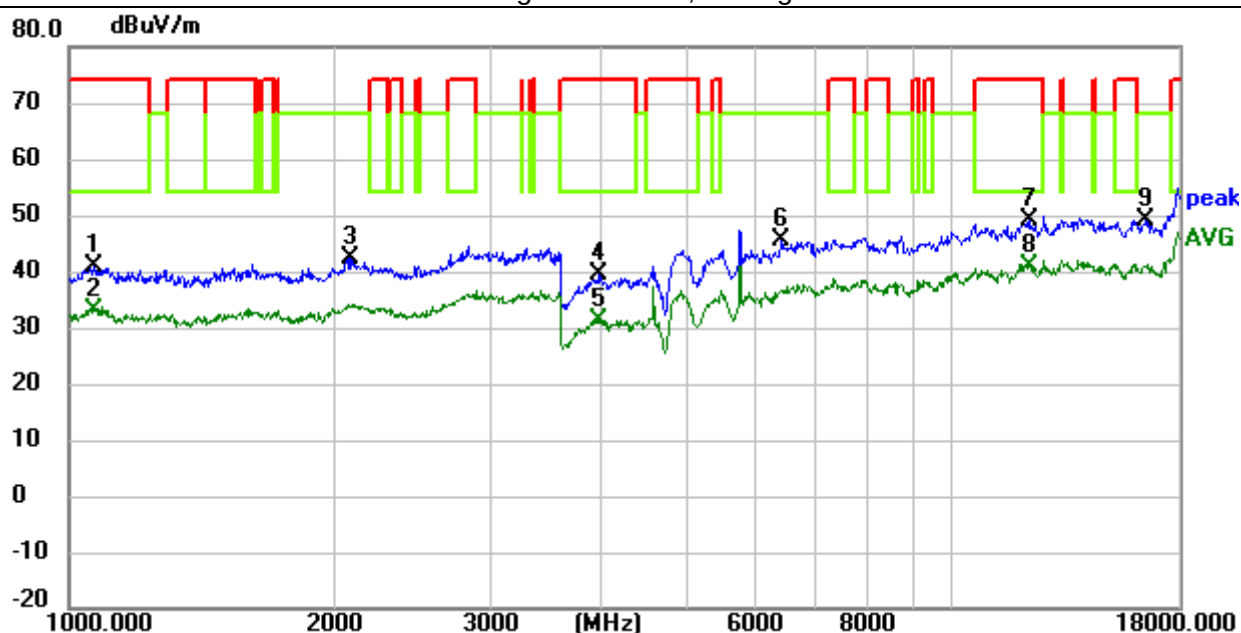
Remark:

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 802.11a. 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.



3.2.9 SPURIOUS EMISSION ABOVE 1GHZ (18GHZ TO 40GHZ)

EUT :	smartphone	Model Name. :	A70
Temperature :	25.3 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz, TX (5.6G)-802.11a 5500MHz~5700MHz TX (5.8G)-802.11a 5745MHz~5825MHz		

5180

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	20716.267	54.04	-8.67	45.37	74.00	-28.63	peak
V	20716.267	42.70	-8.67	34.03	54.00	-19.97	AVG
V	22884.000	54.02	-7.36	46.66	74.00	-27.34	peak
V	22884.000	42.23	-7.36	34.87	54.00	-19.13	AVG
V	29198.000	58.88	-8.48	50.40	68.20	-17.80	peak
V	34879.867	49.05	3.43	52.48	68.20	-15.72	peak
V	38065.467	54.02	0.56	54.58	68.20	-13.62	peak
V	39923.733	53.86	3.29	57.15	68.20	-11.05	peak

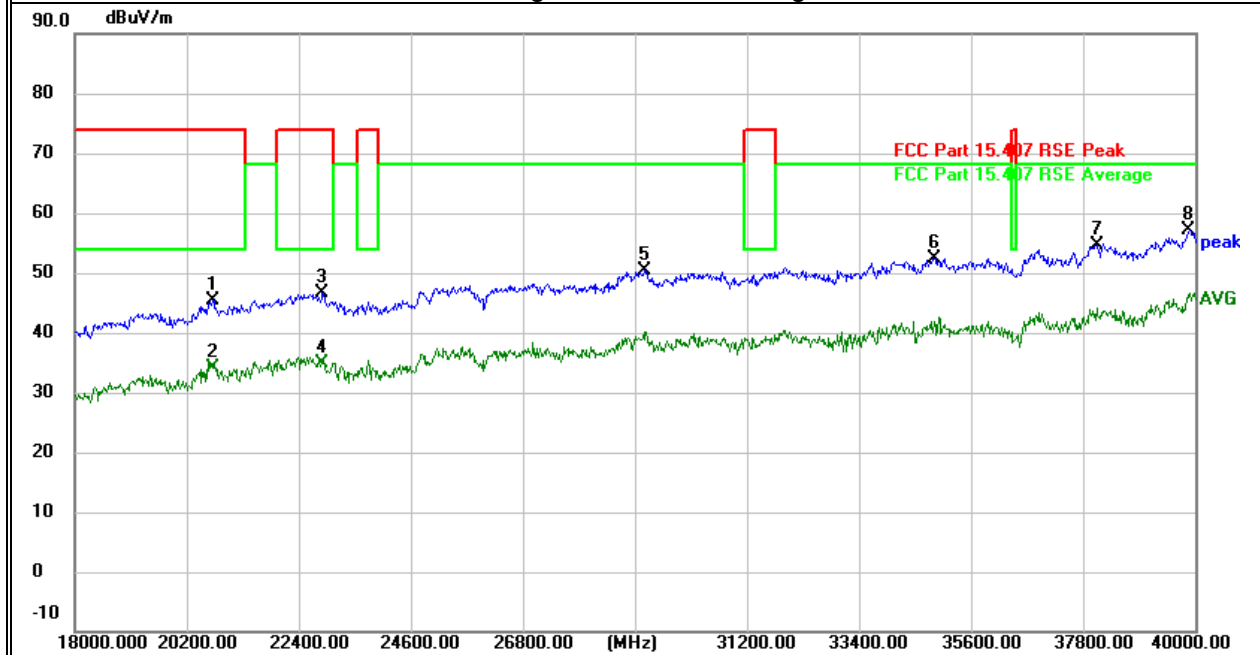
Remark:

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 802.11a 5180MHz. 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	21027.200	53.33	-8.76	44.57	74.00	-29.43	peak
H	21027.200	42.32	-8.76	33.56	54.00	-20.44	AVG
H	22587.733	54.28	-7.39	46.89	74.00	-27.11	peak
H	22587.733	43.16	-7.39	35.77	54.00	-18.23	AVG
H	24035.333	52.52	-5.88	46.64	68.20	-21.56	peak
H	24035.333	41.83	-5.88	35.95	68.20	-32.25	AVG
H	31664.933	56.35	-5.47	50.88	74.00	-23.12	peak
H	31664.933	45.63	-5.47	40.16	54.00	-13.84	AVG
H	37129.000	54.38	-0.25	54.13	68.20	-14.07	peak
H	39600.333	53.68	2.80	56.48	68.20	-11.72	peak

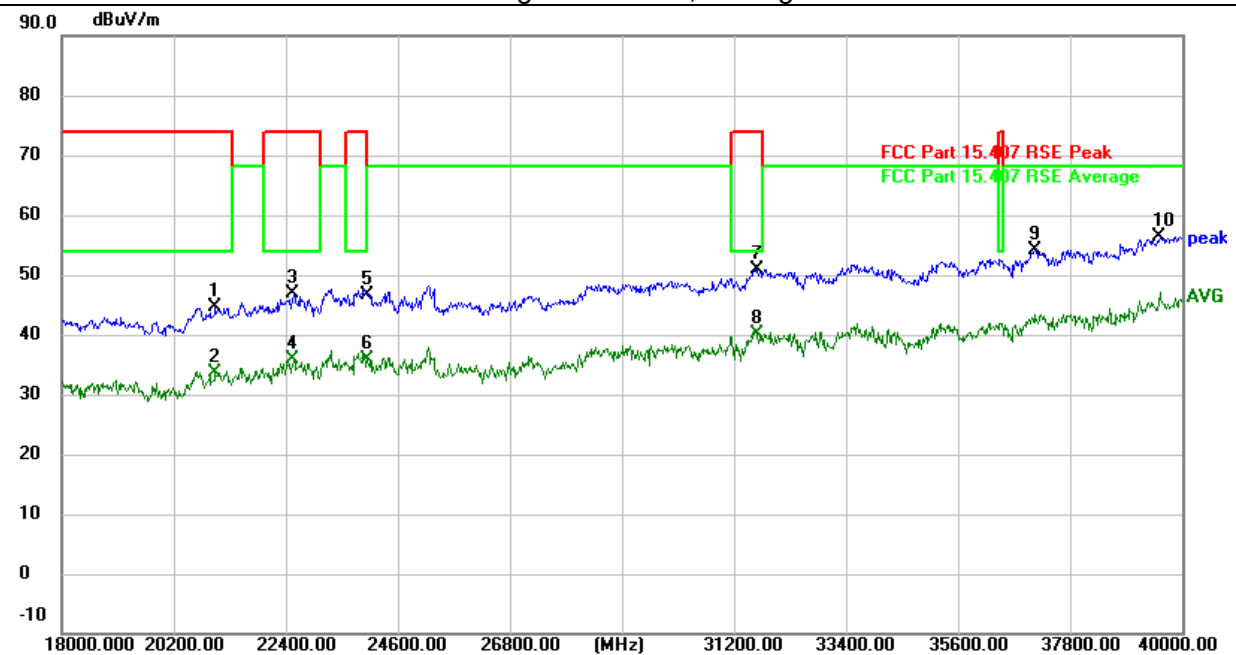
Remark:

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 802.11a 5180MHz. 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.



5240

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	20529.267	55.92	-8.74	47.18	74.00	-26.82	peak
V	20529.267	45.14	-8.74	36.40	54.00	-17.60	AVG
V	22332.533	56.28	-7.66	48.62	74.00	-25.38	peak
V	22332.533	45.78	-7.66	38.12	54.00	-15.88	AVG
V	28486.667	57.89	-8.68	49.21	68.20	-18.99	peak
V	34032.133	51.09	0.79	51.88	68.20	-16.32	peak
V	36433.800	48.99	0.83	49.82	74.00	-24.18	peak
V	36433.800	38.46	0.83	39.29	54.00	-14.71	AVG
	39464.666	53.43	2.56	55.99	68.20	-12.21	peak

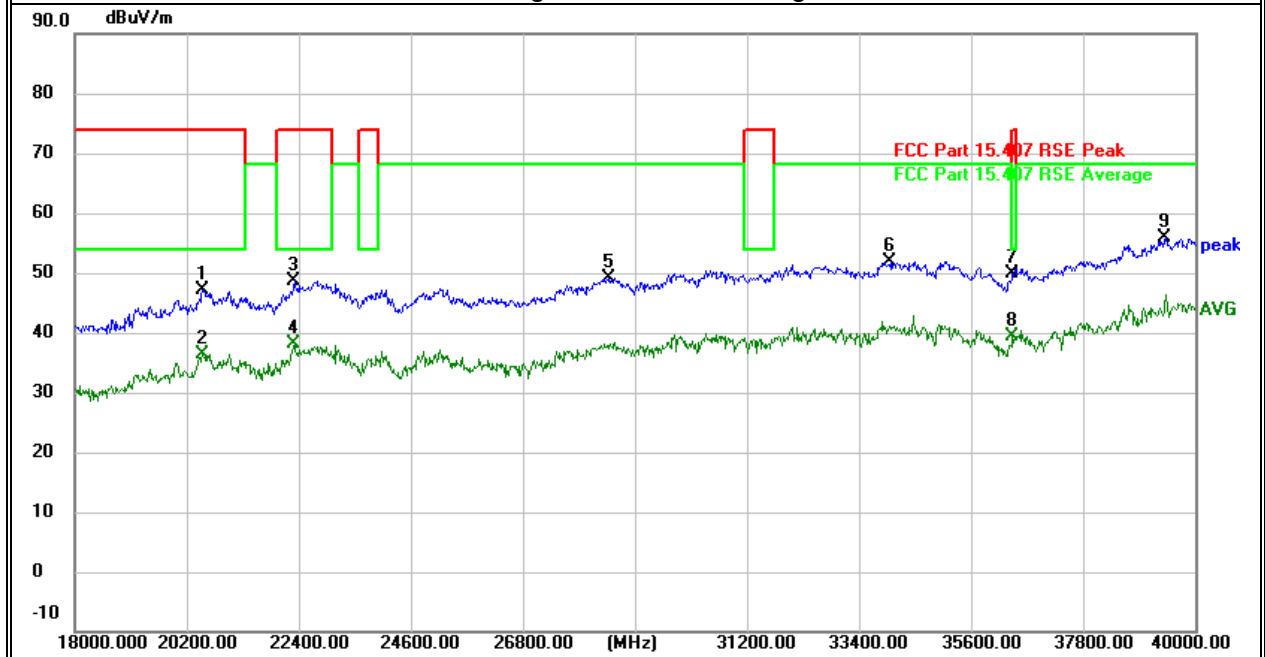
Remark:

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 802.11a 5240MHz. 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	20469.867	55.18	-8.83	46.35	74.00	-27.65	peak
H	20469.867	43.66	-8.83	34.83	54.00	-19.17	AVG
H	22870.067	53.21	-7.38	45.83	74.00	-28.17	peak
H	22870.067	42.31	-7.38	34.93	54.00	-19.07	AVG
H	23937.067	55.02	-5.99	49.03	74.00	-24.97	peak
H	23937.067	44.07	-5.99	38.08	54.00	-15.92	AVG
H	30590.600	58.11	-7.05	51.06	68.20	-17.14	peak
H	35024.333	48.13	3.71	51.84	68.20	-16.36	peak
H	39639.933	53.61	2.86	56.47	68.20	-11.73	peak

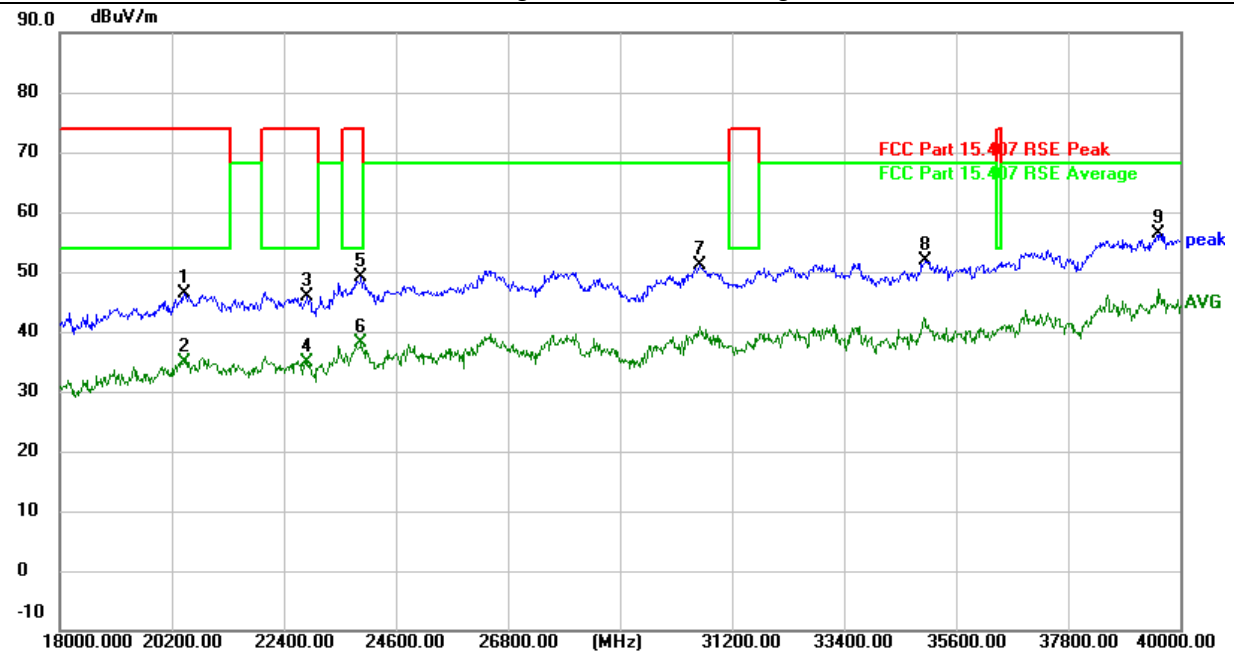
Remark:

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 802.11a 5240MHz. 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.



EUT :	smartphone	Model Name. :	A70
Temperature :	25.3 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX (5.3G)-802.11a 5270MHz~5310MHz,		

5260

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	20030.600	56.99	-9.26	47.73	74.00	-26.27	peak
V	20030.600	46.20	-9.26	36.94	54.00	-17.06	AVG
V	22631.733	53.97	-7.40	46.57	74.00	-27.43	peak
V	22631.733	42.47	-7.40	35.07	54.00	-18.93	AVG
V	24036.067	53.89	-5.89	48.00	68.20	-20.20	peak
V	24036.067	42.80	-5.89	36.91	68.20	-31.29	AVG
V	33549.600	52.50	-0.60	51.90	68.20	-16.30	peak
V	38828.133	53.44	1.88	55.32	68.20	-12.88	peak
V	39915.666	52.03	3.28	55.31	68.20	-12.89	peak

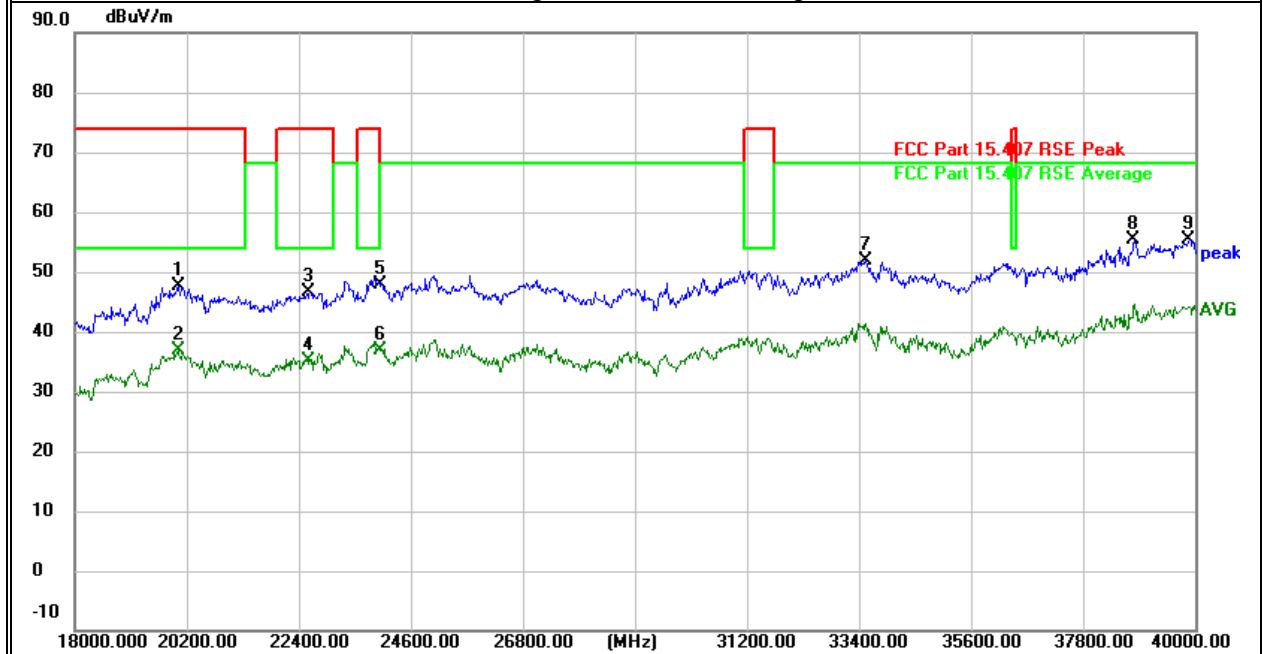
Remark:

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 802.11a 5260MHz. 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	19982.933	55.92	-9.24	46.68	74.00	-27.32	peak
H	19982.933	44.04	-9.24	34.80	54.00	-19.20	AVG
H	22628.800	55.38	-7.39	47.99	74.00	-26.01	peak
H	22628.800	43.32	-7.39	35.93	54.00	-18.07	AVG
H	26854.267	58.97	-7.78	51.19	68.20	-17.01	peak
H	29567.600	60.39	-7.73	52.66	68.20	-15.54	peak
H	33427.133	54.75	-0.95	53.80	68.20	-14.40	peak
H	39868.000	54.59	3.22	57.81	68.20	-10.39	peak

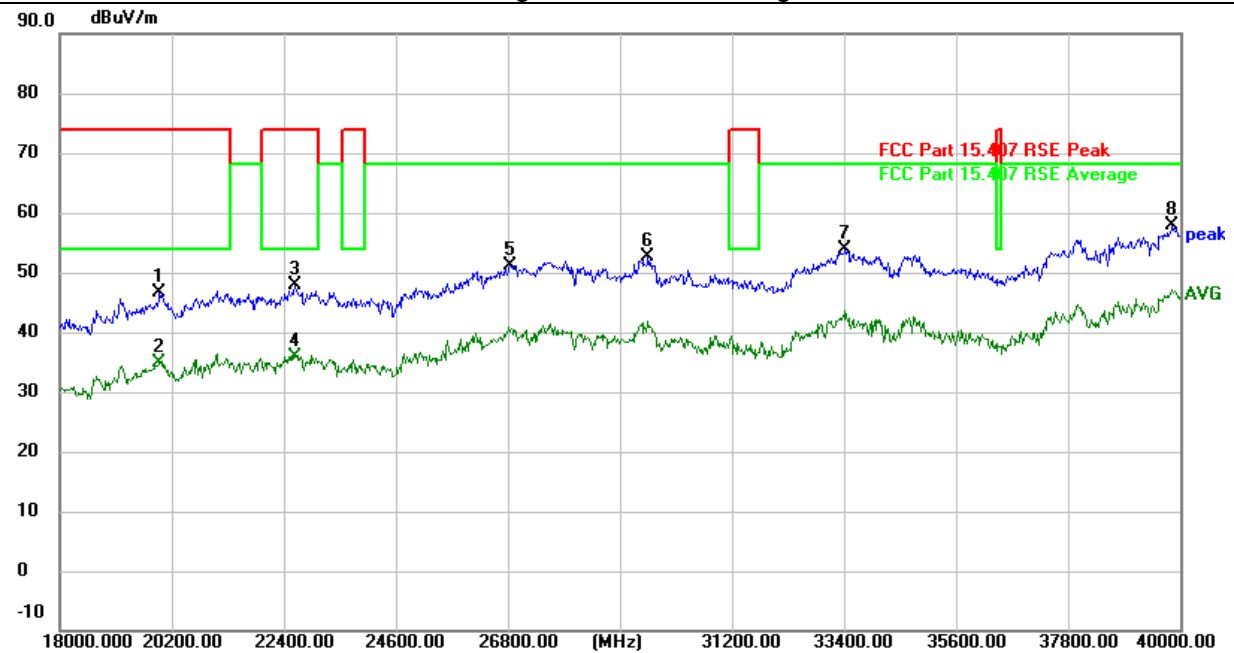
Remark:

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 802.11a 5260MHz. 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.



5320

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	19987.333	57.16	-9.24	47.92	74.00	-26.08	peak
V	19987.333	45.90	-9.24	36.66	54.00	-17.34	AVG
V	22215.200	57.53	-7.88	49.65	74.00	-24.35	peak
V	22215.200	46.37	-7.88	38.49	54.00	-15.51	AVG
V	26922.466	58.59	-7.95	50.64	68.20	-17.56	peak
V	29953.333	58.90	-7.45	51.45	68.20	-16.75	peak
V	33690.400	52.24	-0.19	52.05	68.20	-16.15	peak
V	39869.467	54.94	3.22	58.16	68.20	-10.04	peak

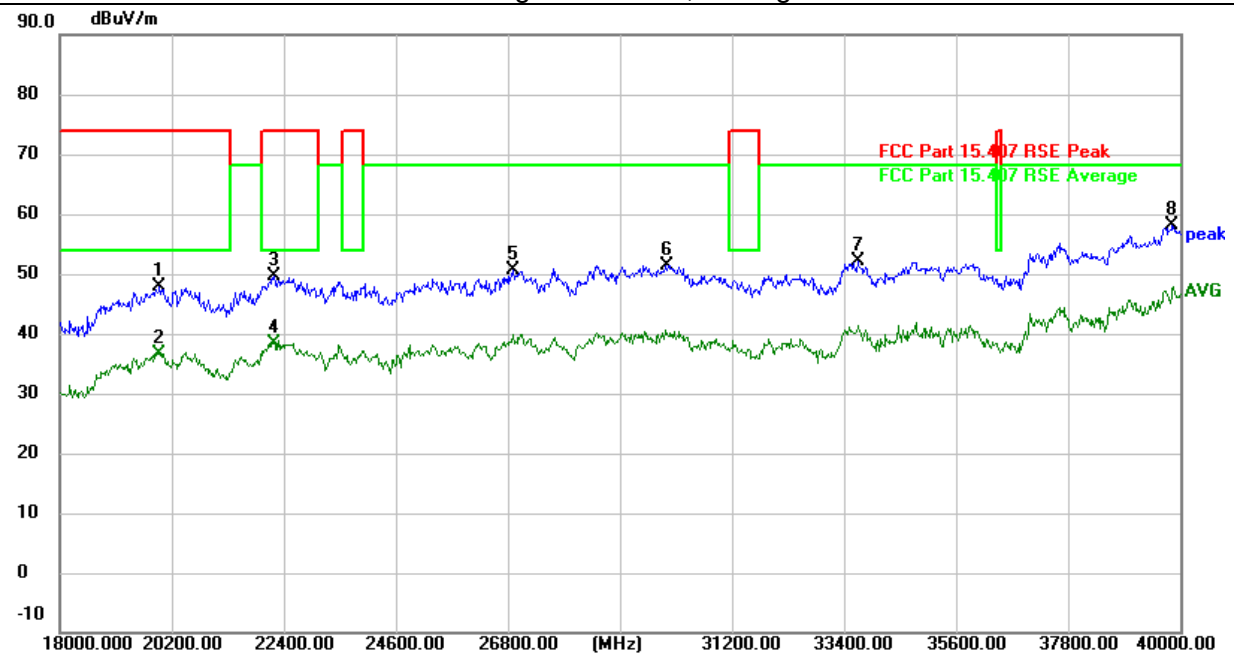
Remark:

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 802.11a 5320MHz. 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	20414.133	57.77	-8.99	48.78	74.00	-25.22	peak
H	20414.133	46.55	-8.99	37.56	54.00	-16.44	AVG
H	22218.133	58.22	-7.87	50.35	74.00	-23.65	peak
H	22218.133	48.19	-7.87	40.32	54.00	-13.68	AVG
H	23790.400	55.93	-6.42	49.51	74.00	-24.49	peak
H	23790.400	45.35	-6.42	38.93	54.00	-15.07	AVG
H	26318.200	57.36	-6.77	50.59	68.20	-17.61	peak
H	34644.467	49.97	2.81	52.78	68.20	-15.42	peak
H	39982.400	54.14	3.36	57.50	68.20	-10.70	peak

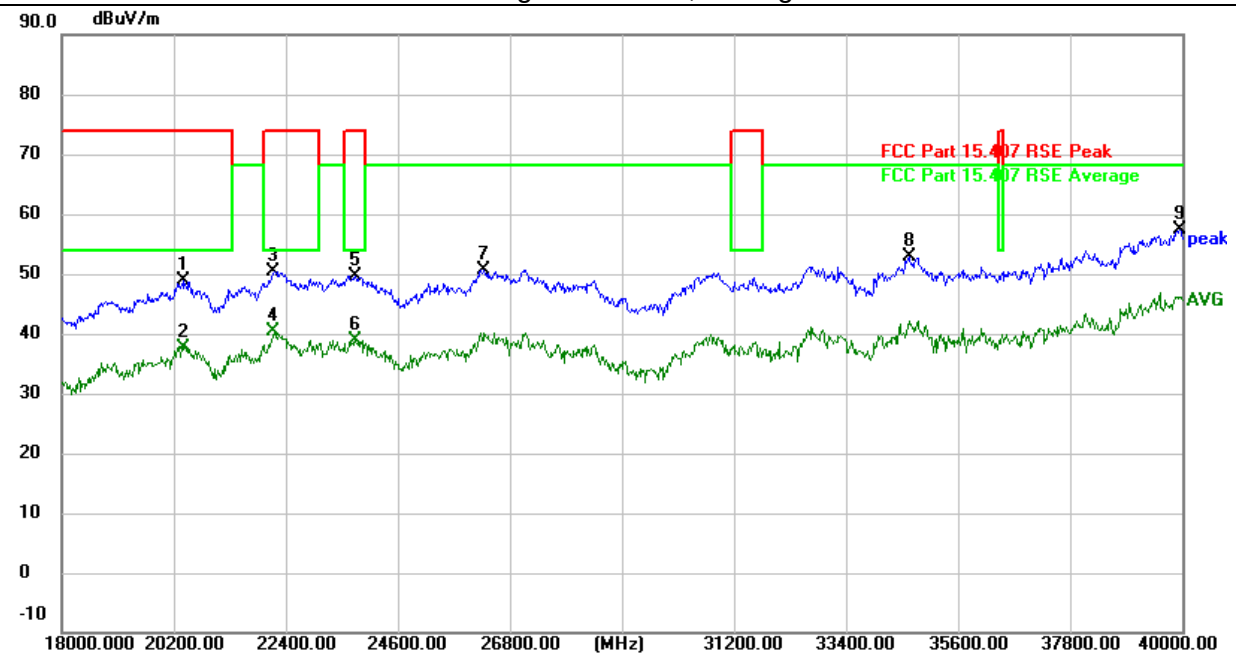
Remark:

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 802.11a 5320MHz. 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.



EUT :	smartphone	Model Name. :	A70
Temperature :	25.3 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX (5.8G)-802.11a 5745MHz~5825MHz		

5745

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	21229.600	54.69	-8.64	46.05	74.00	-27.95	peak
V	21229.600	44.25	-8.64	35.61	54.00	-18.39	AVG
V	22358.933	55.48	-7.61	47.87	74.00	-26.13	peak
V	22358.933	44.25	-7.61	36.64	54.00	-17.36	AVG
V	29346.133	58.25	-8.16	50.09	68.20	-18.11	peak
V	33985.933	51.76	0.66	52.42	68.20	-15.78	peak
V	38091.133	53.21	0.60	53.81	68.20	-14.39	peak
V	39964.067	53.25	3.35	56.60	68.20	-11.60	peak

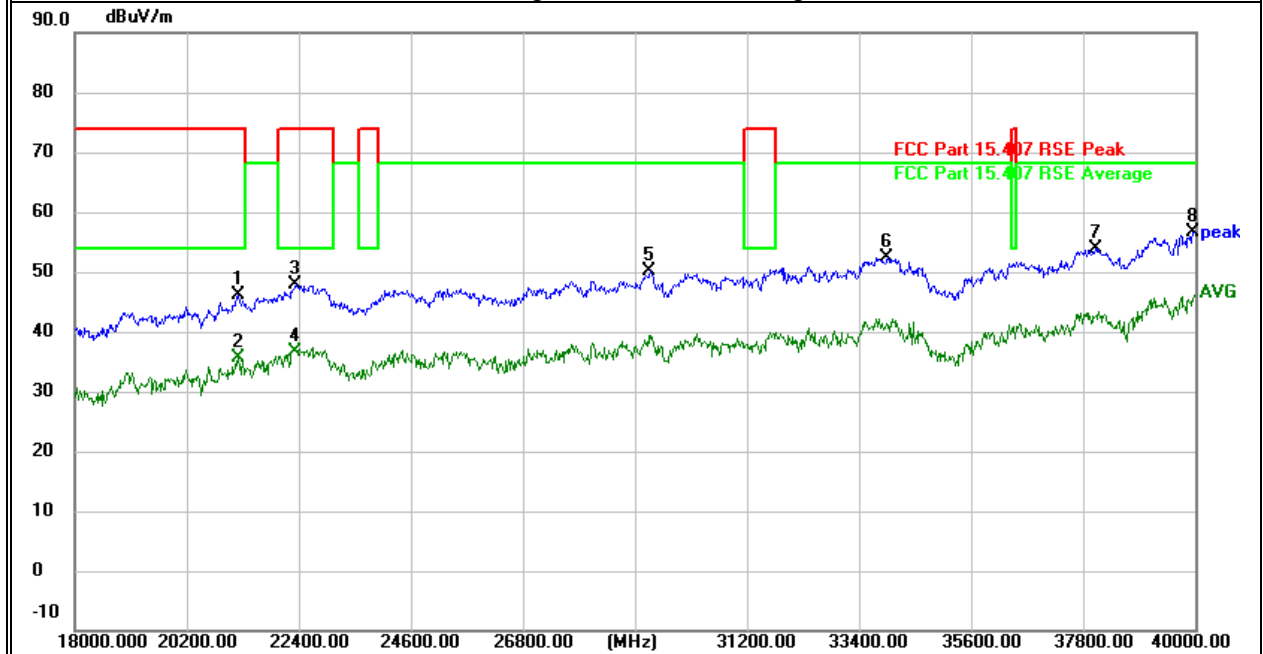
Remark:

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 802.11a 5745MHz. 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	20417.067	56.40	-8.98	47.42	74.00	-26.58	peak
H	20417.067	45.57	-8.98	36.59	54.00	-17.41	AVG
H	22895.000	54.68	-7.35	47.33	74.00	-26.67	peak
H	22895.000	43.63	-7.35	36.28	54.00	-17.72	AVG
H	25114.067	54.08	-3.94	50.14	68.20	-18.06	peak
H	29257.400	62.31	-8.37	53.94	68.20	-14.26	peak
H	34535.933	52.32	2.58	54.90	68.20	-13.30	peak
H	39813.733	55.62	3.14	58.76	68.20	-9.44	peak

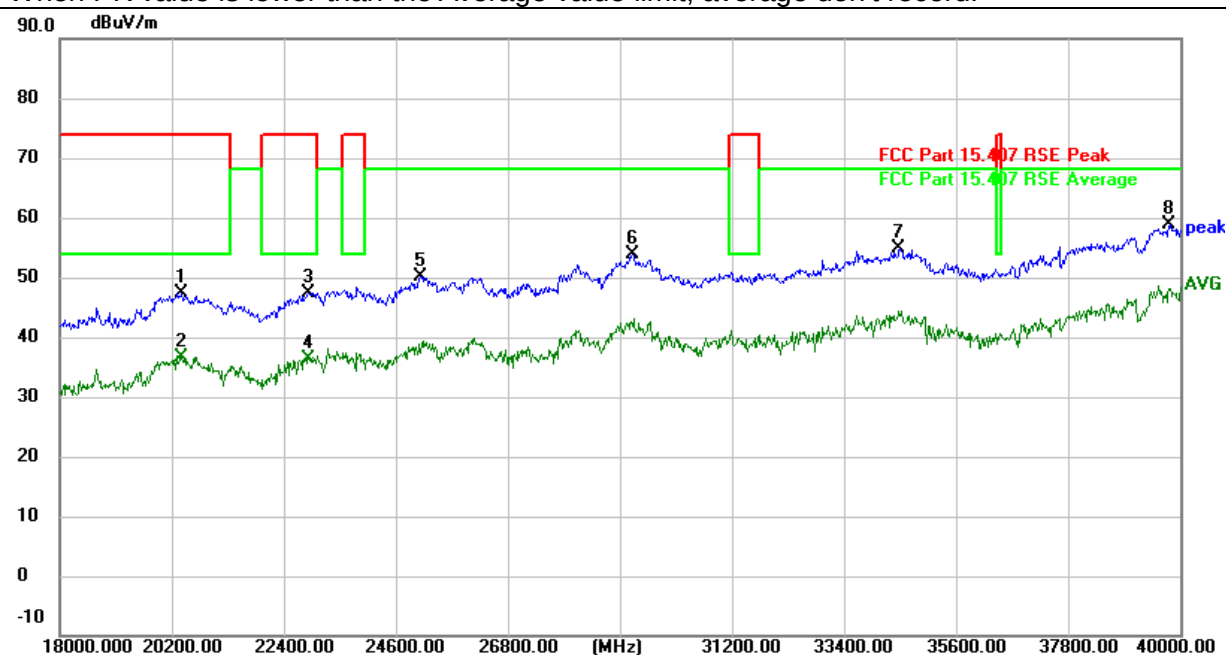
Remark:

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 802.11a 5745MHz. 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.



5825

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	20512.400	56.33	-8.75	47.58	74.00	-26.42	peak
V	20512.400	45.59	-8.75	36.84	54.00	-17.16	AVG
V	21998.133	55.65	-8.20	47.45	68.20	-20.75	peak
V	21998.133	43.92	-8.20	35.72	68.20	-32.48	AVG
V	26683.400	57.01	-7.43	49.58	68.20	-18.62	peak
V	28883.400	59.10	-8.87	50.23	68.20	-17.97	peak
V	35022.133	50.13	3.70	53.83	68.20	-14.37	peak
V	39156.666	55.22	2.18	57.40	68.20	-10.80	peak

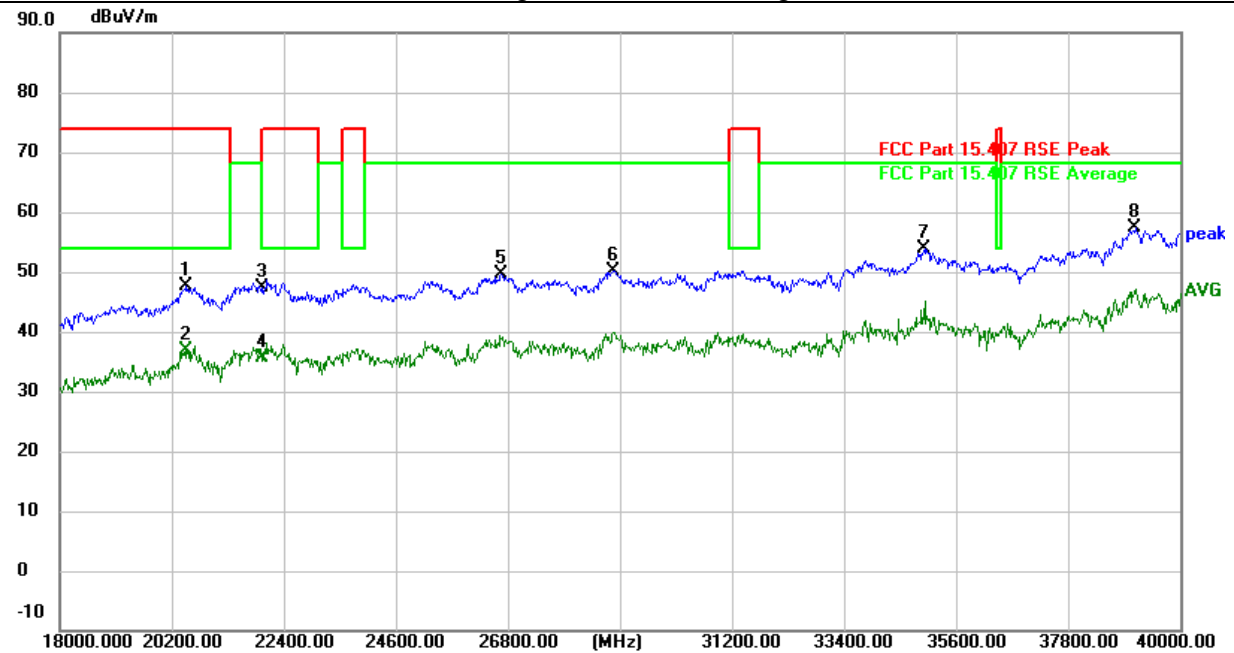
Remark:

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 802.11a 5825MHz. 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	20441.267	56.64	-8.91	47.73	74.00	-26.27	peak
H	20441.267	44.84	-8.91	35.93	54.00	-18.07	AVG
H	22559.133	55.67	-7.37	48.30	74.00	-25.70	peak
H	22559.133	45.25	-7.37	37.88	54.00	-16.12	AVG
H	26626.200	55.70	-7.37	48.33	68.20	-19.87	peak
H	33902.333	52.01	0.42	52.43	68.20	-15.77	peak
H	37293.267	51.99	-0.05	51.94	68.20	-16.26	peak
H	38932.267	55.27	2.05	57.32	68.20	-10.88	peak

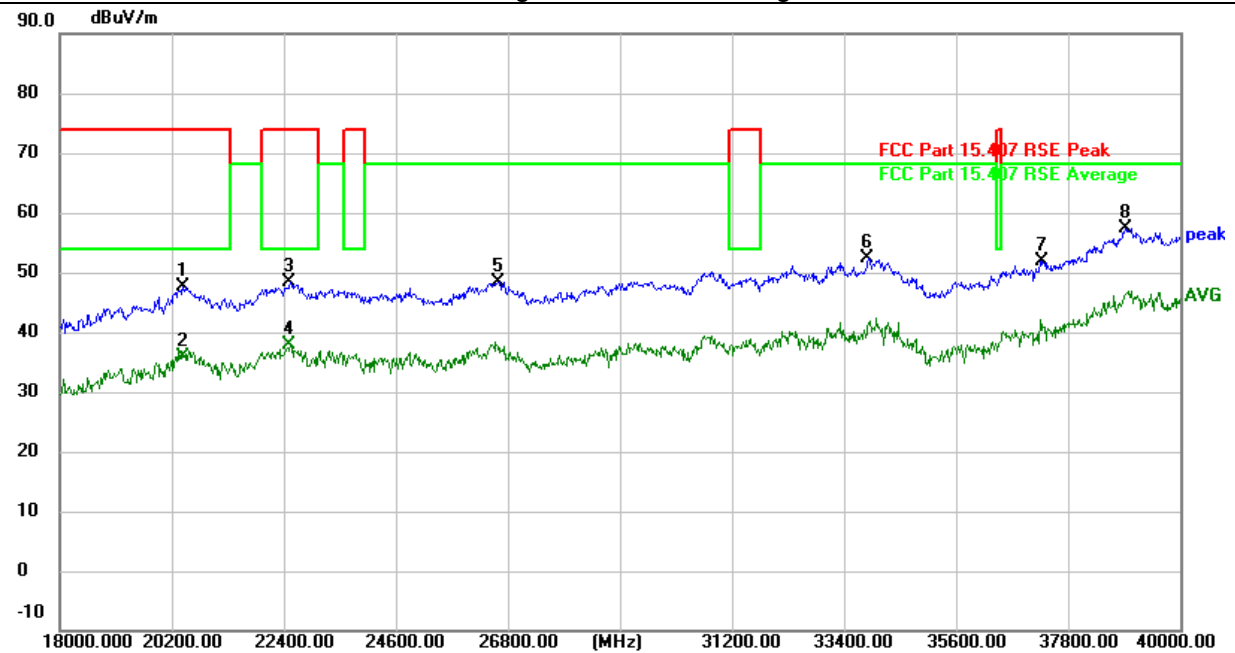
Remark:

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 802.11a 5825MHz. 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.



3.2.10 Radiated Spurious at Band Edges

EUT :	smartphone	Model Name. :	A70
Temperature :	22.6 °C	Relative Humidity :	51.7%
Pressure :	1010 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz, TX (5.3G)-802.11a 5500MHz~5700MHz, TX (5.8G)-802.11a 5745MHz~5825MHz		

5180

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5150.000	12.31	38.51	50.82	74.00	-23.18	peak
V	5150.000	2.35	38.51	40.86	54.00	-13.14	AVG

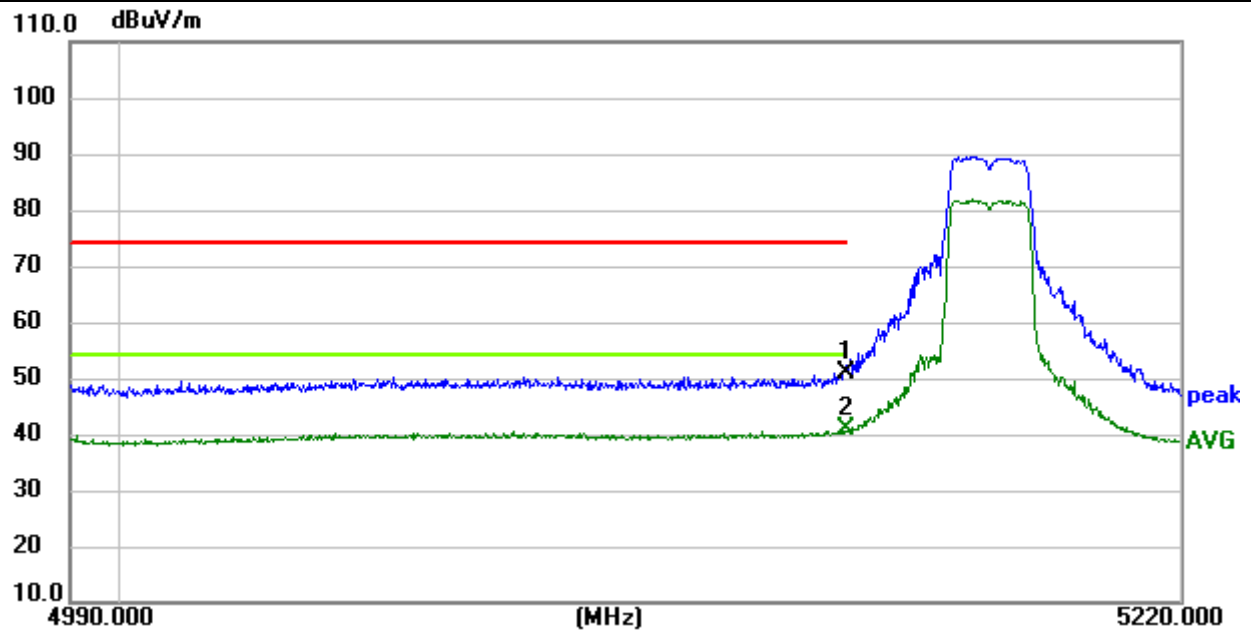
Remark:

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 802.11a. 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	5150.000	17.09	38.51	55.60	74.00	-18.40	peak
H	5150.000	4.88	38.51	43.39	54.00	-10.61	AVG

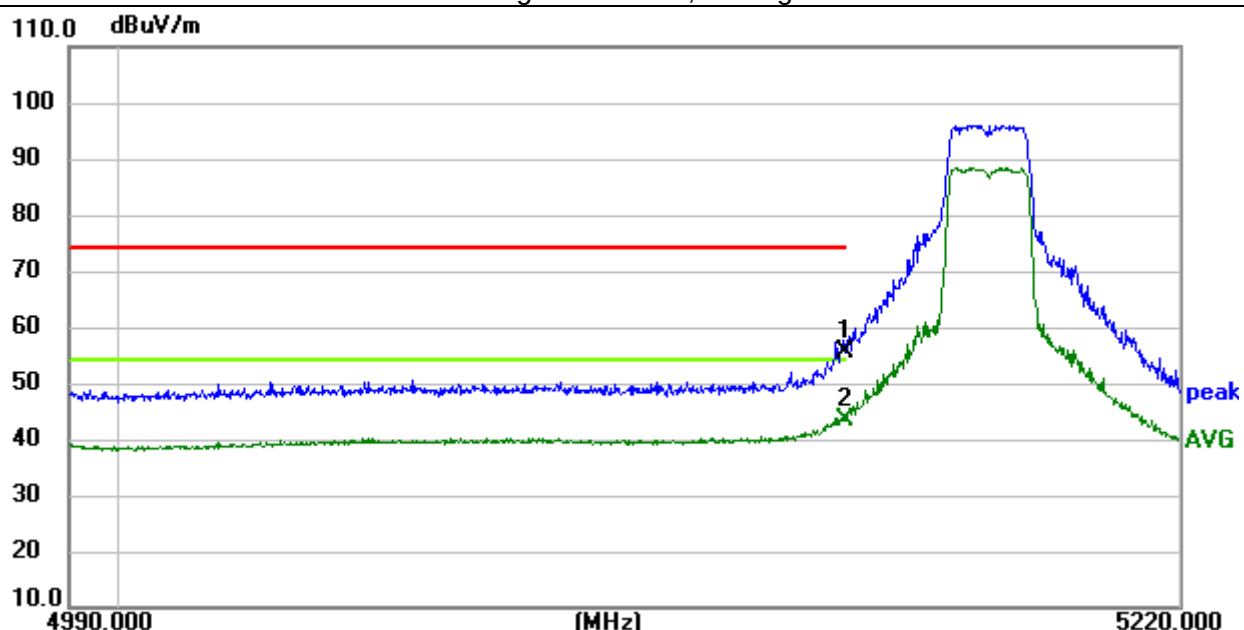
Remark:

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 802.11a. 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.



5240

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5350.000	9.56	37.64	47.20	74.00	-26.80	peak
V	5350.000	-0.25	37.64	37.39	54.00	-16.61	AVG

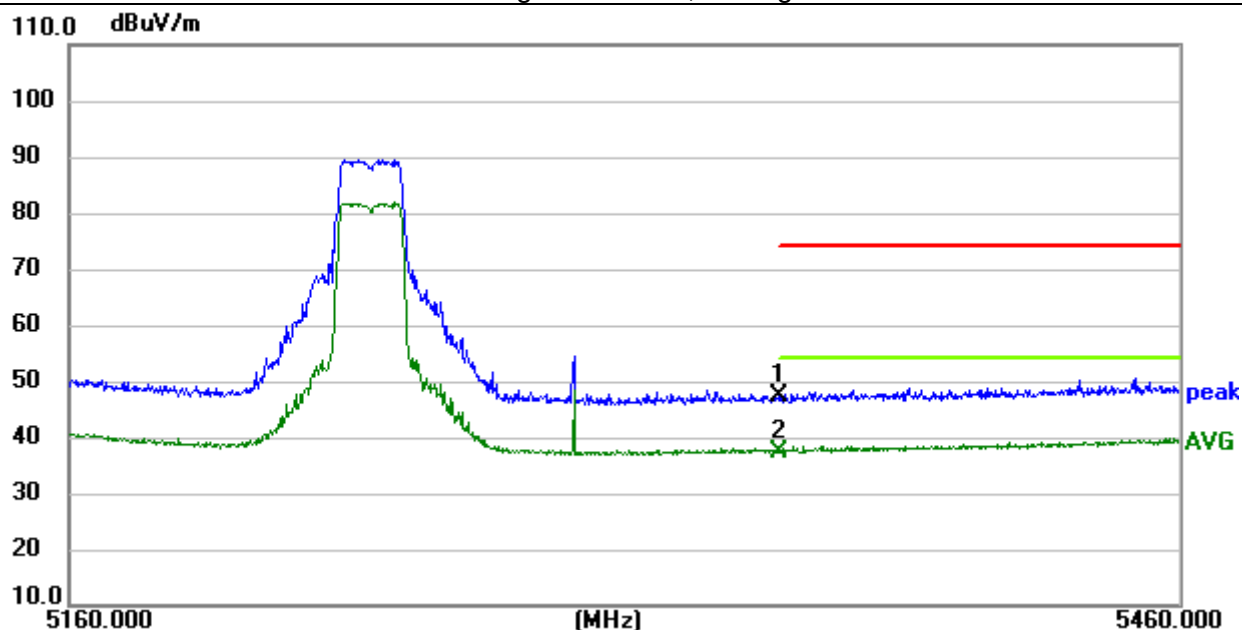
Remark:

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 802.11a. 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	5350.000	9.05	37.64	46.69	74.00	-27.31	peak
H	5350.000	0.05	37.64	37.69	54.00	-16.31	AVG

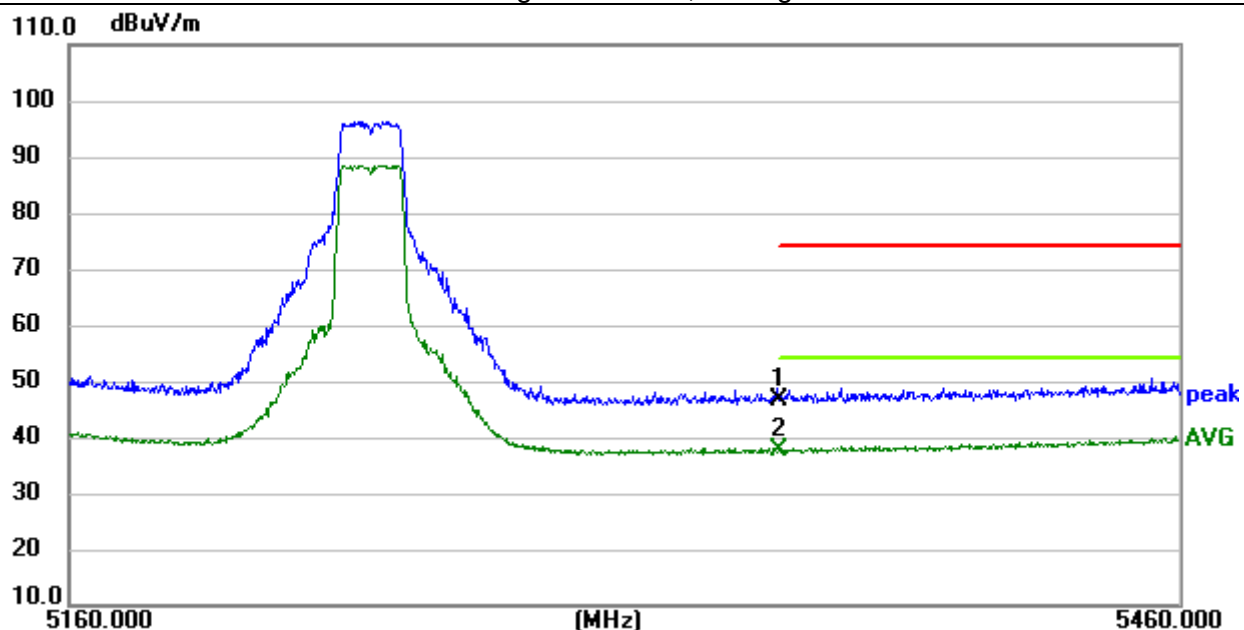
Remark:

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 802.11a. 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.



5260

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5150.000	10.28	38.51	48.79	74.00	-25.21	peak
V	5150.000	0.94	38.51	39.45	54.00	-14.55	AVG

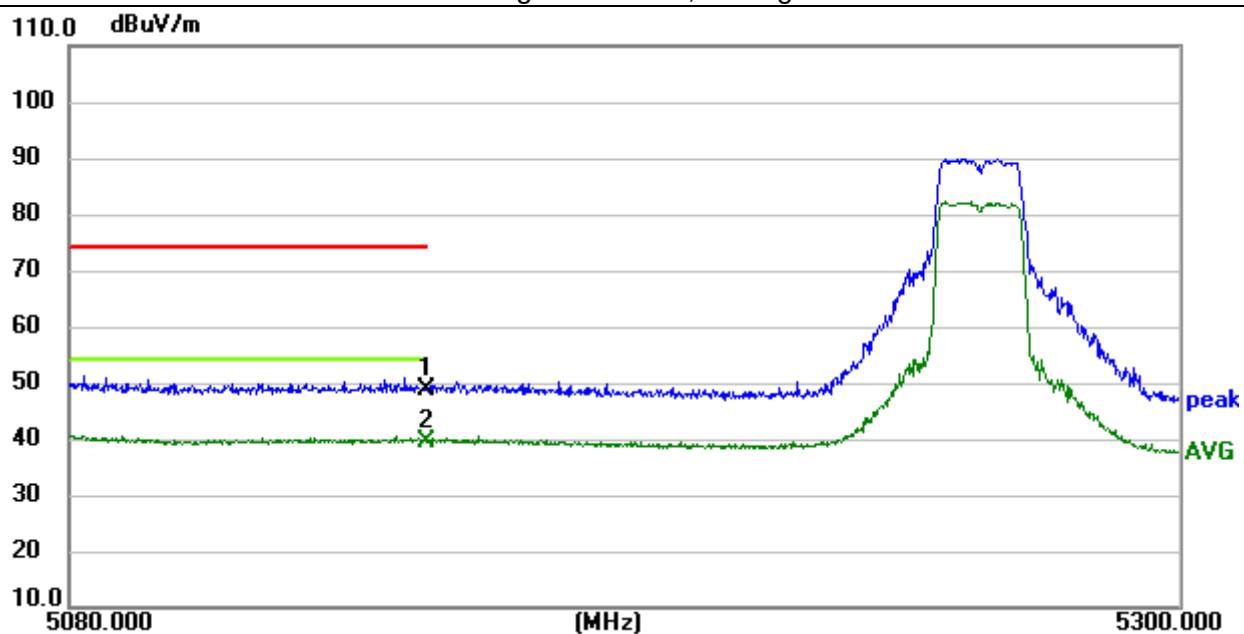
Remark:

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 802.11a. 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	5150.000	11.01	38.51	49.52	74.00	-24.48	peak
H	5150.000	1.08	38.51	39.59	54.00	-14.41	AVG

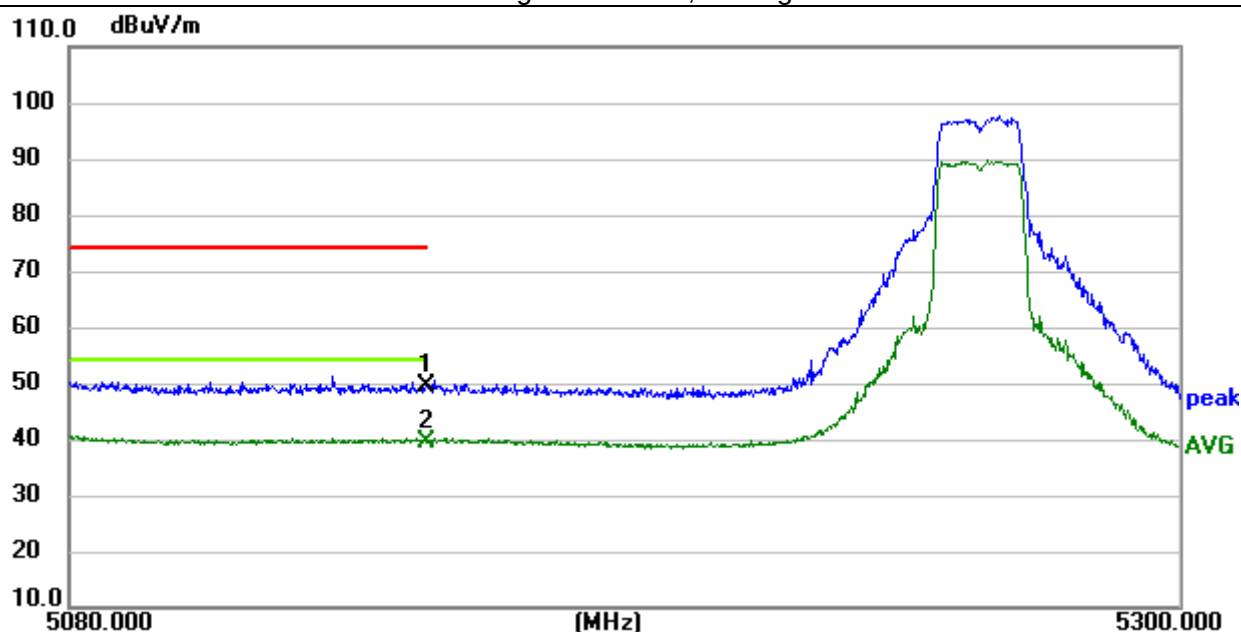
Remark:

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 802.11a. 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.



5320

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5350.000	13.27	37.64	50.91	74.00	-23.09	peak
V	5350.000	0.99	37.64	38.63	54.00	-15.37	AVG

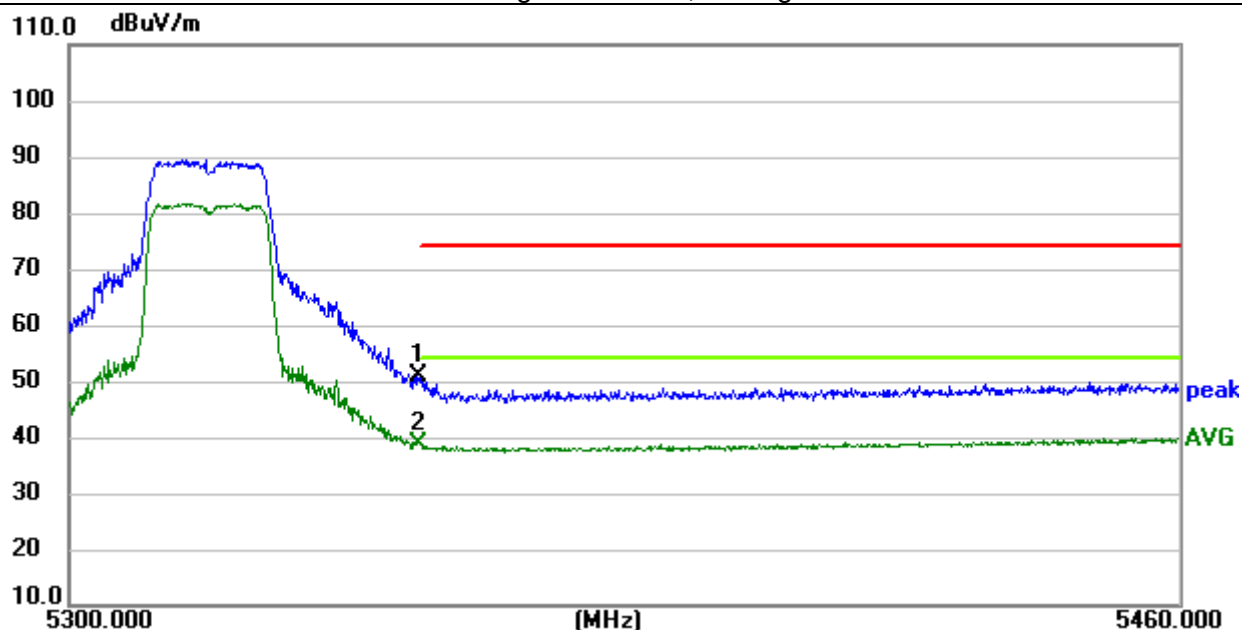
Remark:

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 802.11a. 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	5350.000	16.66	37.64	54.30	74.00	-19.70	peak
H	5350.000	4.39	37.64	42.03	54.00	-11.97	AVG

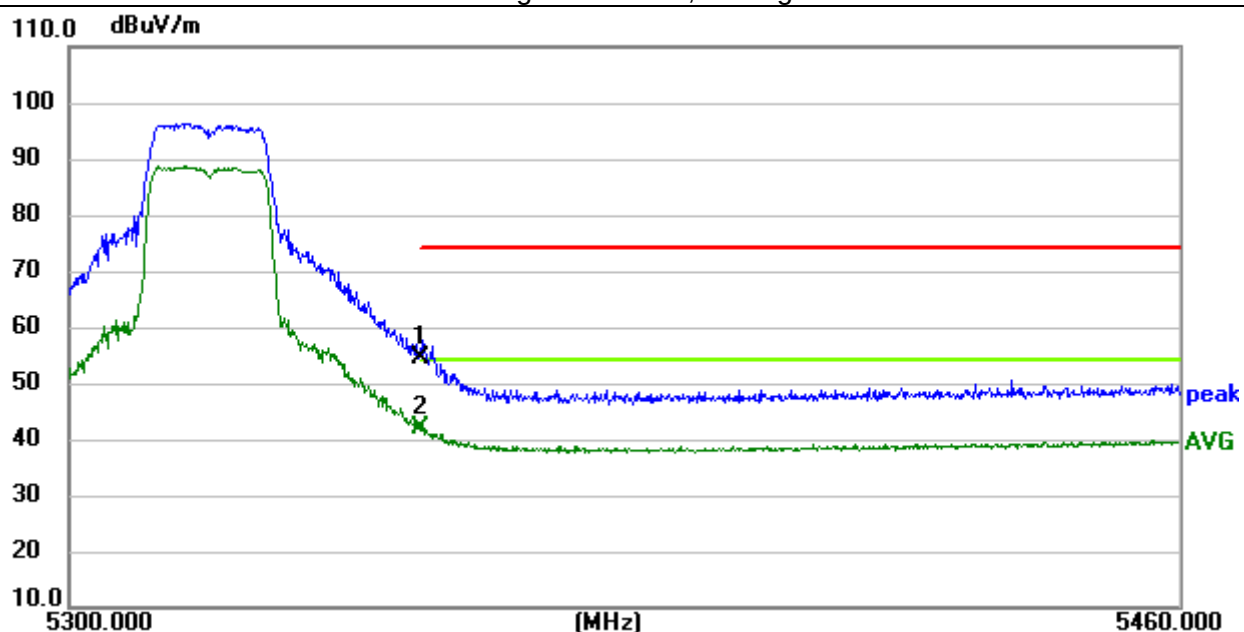
Remark:

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 802.11a. 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.



5745

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5578.635	-101.55	50.46	-51.09	-27.00	-24.09	peak

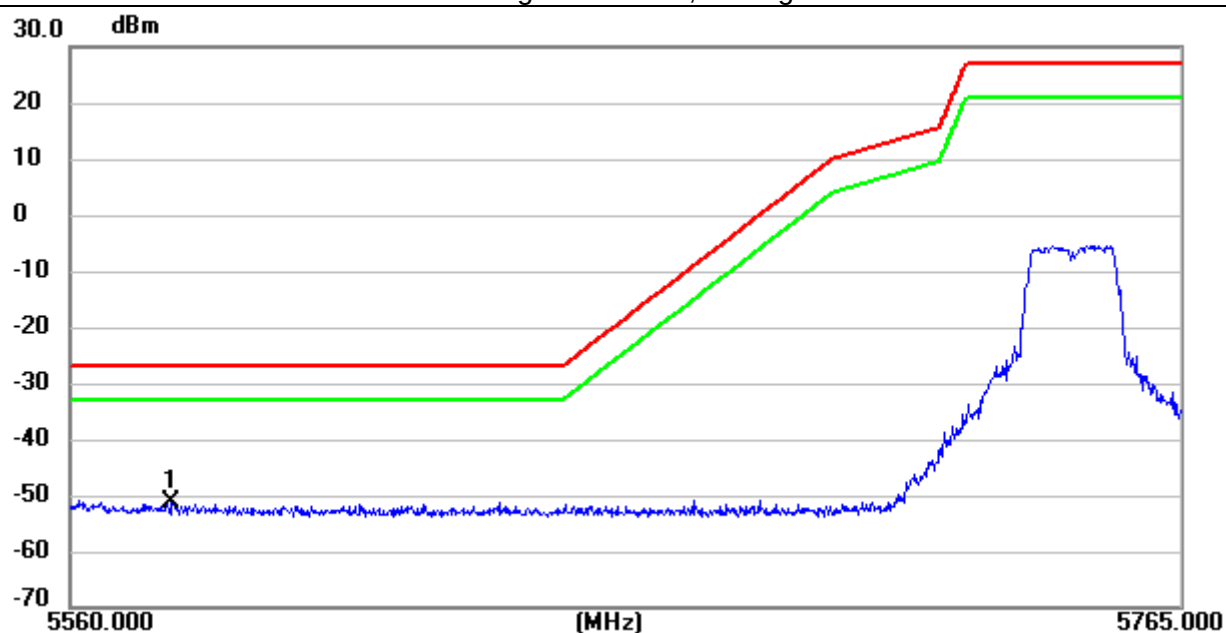
Remark:

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 802.11a. 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 (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	5586.712	-101.67	50.42	-51.25	-27.00	-24.25	peak

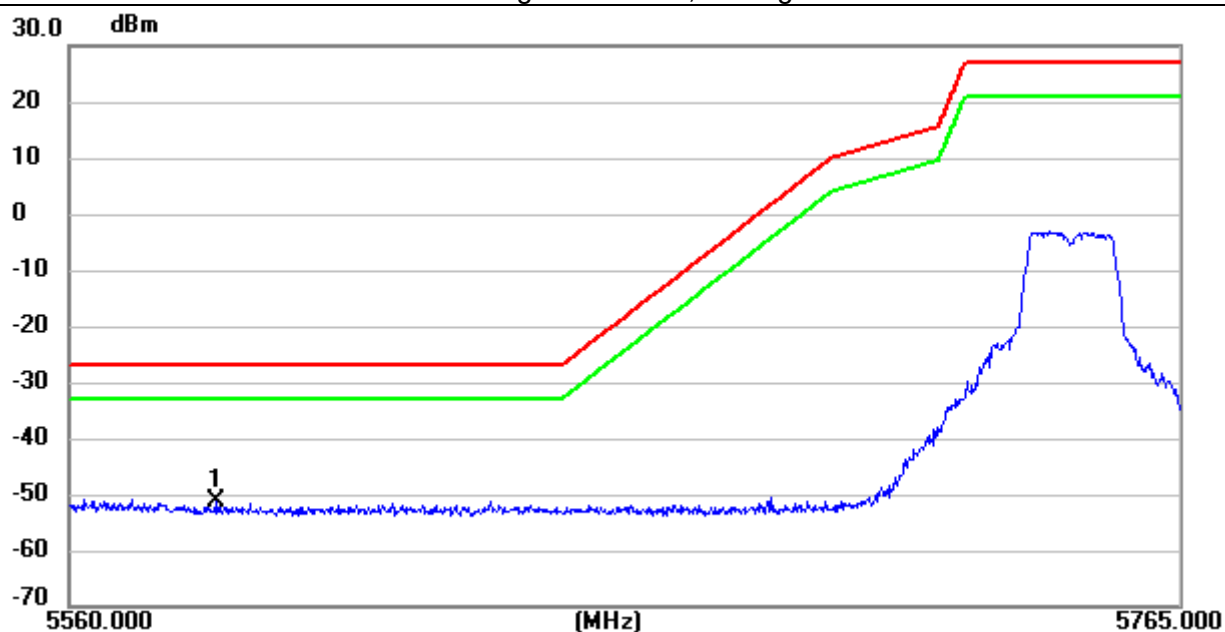
Remark:

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 802.11a. 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.



5825

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5962.453	-101.34	51.67	-49.67	-27.00	-22.67	peak

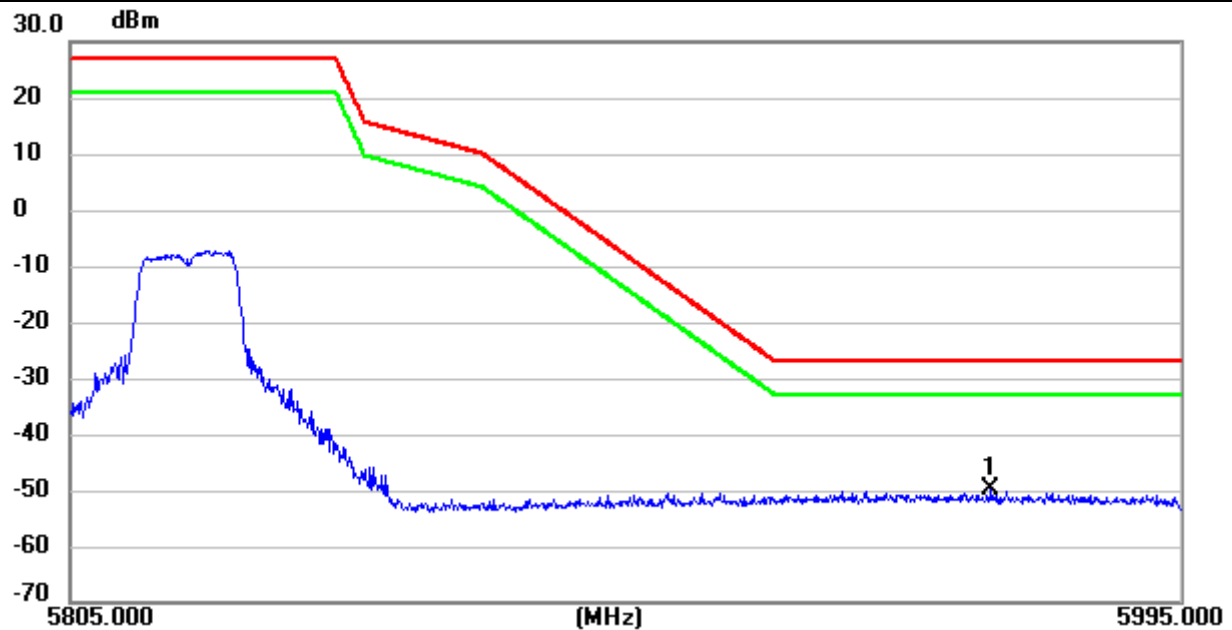
Remark:

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 802.11a. 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	5968.495	-101.10	51.56	-49.54	-27.00	-22.54	peak

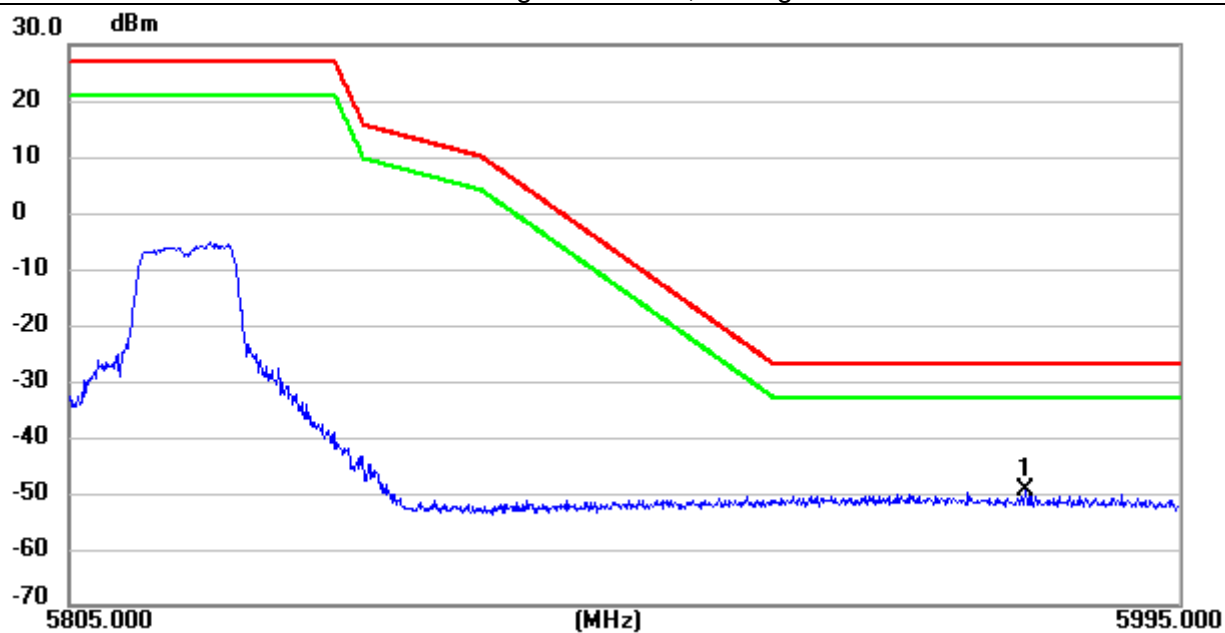
Remark:

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 802.11a. 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.



4 POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

- (3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

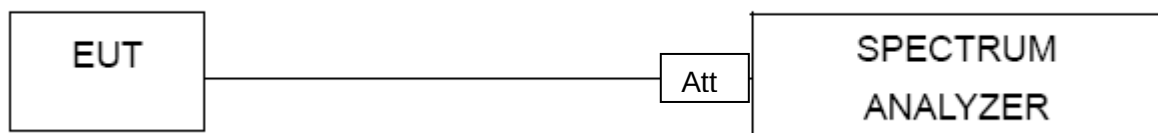
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

5. 26DB & 99% EMISSION BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

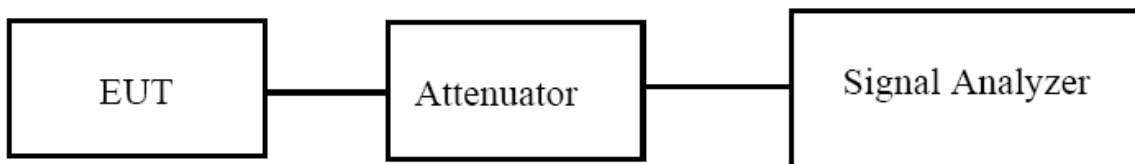
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

5.2 TEST PROCEDURE

- a) Set RBW = approximately 1% to 5% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1% to 5%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



5.3 EUT OPERATION CONDITIONS

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

5.4 TEST RESULTS

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

6. MINIMUM 6 DB BANDWIDTH

6.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2 EST PROCEDURE

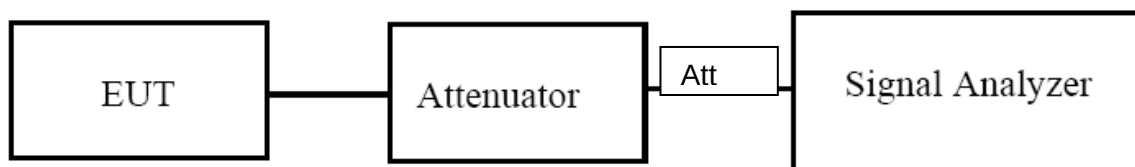
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

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

6.6 TEST RESULTS

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX (5G) Mode Frequency Band 3 (5745-5825MHz)		

Test data reference attachment.

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or $11 \text{ dBm} + 10 \log B$ Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

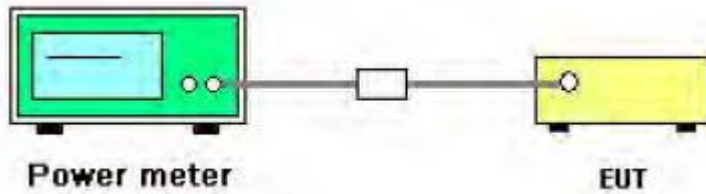
7.2 TEST PROCEDURE

- Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

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

7.6 TEST RESULTS

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

8. OUT OF BAND EMISSIONS

8.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(10) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

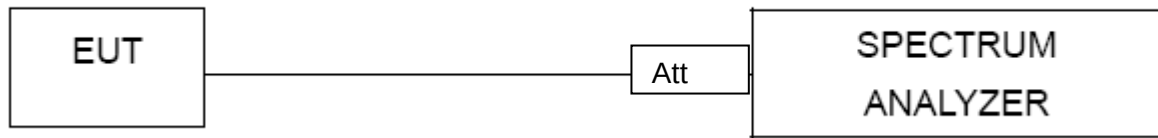
8.2 TEST PROCEDURE

The testing per ANSI C63.10 Section 12.7.4.2

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

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

8.6 TEST RESULTS

EUT :	smartphone	Model Name :	A70
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

9. Frequency Stability Measurement

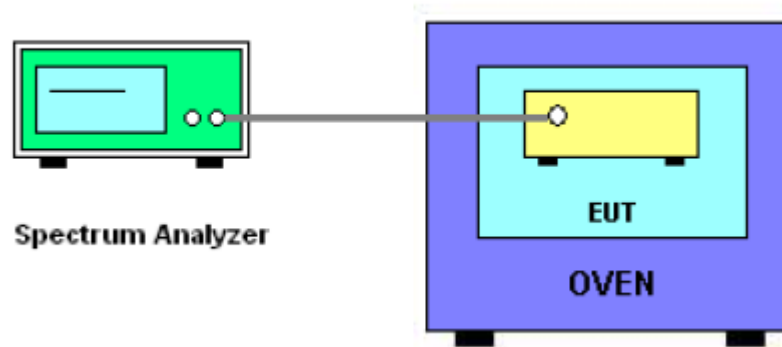
9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

9.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm
- t6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

9.3 TEST SETUP LAYOUT



9.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.

9.5 TEST RESULTS

EUT :	smartphone	Model Name. :	A70
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.87V
Test Mode :	TX Frequency Band I (5180-5240MHz) TX Frequency Band 2A (5260-5320MHz) TX Frequency Band 3 (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
20°C 3.4V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
20°C 4.45V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
-20°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
-10°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
0°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
10°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
30°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
40°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
50°C 3.87V	user	5180	Ant1	5180.001	1000	0.19	20	Pass
20°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
20°C 3.4V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
20°C 4.45V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
-20°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
-10°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
0°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
10°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
30°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
40°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
50°C 3.87V	user	5200	Ant1	5200.001	1000	0.19	20	Pass
20°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass

20°C 3.4V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
20°C 4.45V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
-20°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
-10°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
0°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
10°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
30°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
40°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
50°C 3.87V	user	5240	Ant1	5240.001	1000	0.19	20	Pass
20°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
20°C 3.4V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
20°C 4.45V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
-20°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
-10°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
0°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
10°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
30°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
40°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
50°C 3.87V	user	5260	Ant1	5260.001	1000	0.19	20	Pass
20°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
20°C 3.4V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
20°C 4.45V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
-20°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
-10°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
0°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
10°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
30°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
40°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass

50°C 3.87V	user	5280	Ant1	5280.001	1000	0.19	20	Pass
20°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
20°C 3.4V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
20°C 4.45V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
-20°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
-10°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
0°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
10°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
30°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
40°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
50°C 3.87V	user	5320	Ant1	5320.001	1000	0.19	20	Pass
20°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
20°C 3.4V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
20°C 4.45V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
-20°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
-10°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
0°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
10°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
30°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
40°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
50°C 3.87V	user	5745	Ant1	5745.002	2000	0.35	20	Pass
20°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
20°C 3.4V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
20°C 4.45V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
-20°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
-10°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
0°C 3.87V	user	5785	Ant1	5785.001	1000	0.17	20	Pass
10°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass

30°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
40°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
50°C 3.87V	user	5785	Ant1	5785.002	2000	0.35	20	Pass
20°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
20°C 3.4V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
20°C 4.45V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
-20°C 3.87V	user	5825	Ant1	5825.001	1000	0.17	20	Pass
-10°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
0°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
10°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
30°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
40°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass
50°C 3.87V	user	5825	Ant1	5825.002	2000	0.34	20	Pass

10. DYNAMIC FREQUENCY SELECTION(DFS)

10.1 APPLICABILITY OF DFS REQUIREMENTS

EUT is client and operates as client without radar detection function.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

10.2 INTERFERENCE THRESHOLD VALUES, MASTER OR CLIENT INCORPORATING IN-SERVICE SMARTPHONEING

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

10.3 DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

10.4 SHORT PULSE RADAR TEST WAVEFORMS

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	$\text{Roundup}\left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\text{min}}}\right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

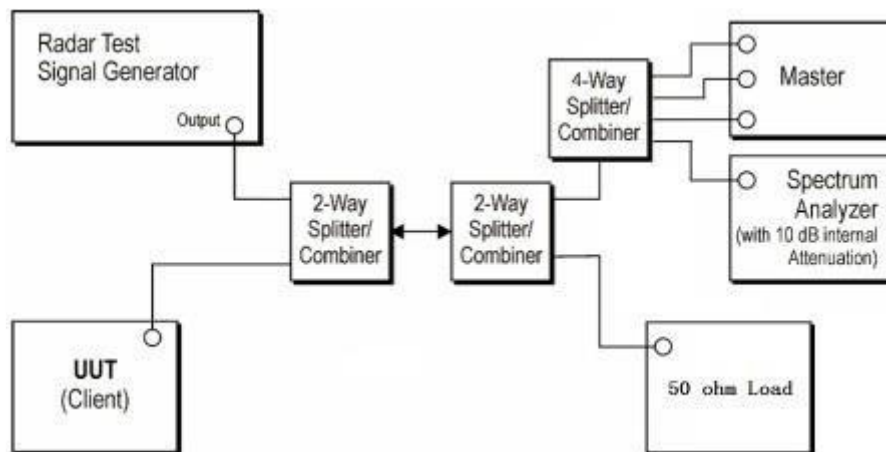
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

10.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -64dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 3.69\text{dBi} + 1\text{dB} = -57.31\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

10.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	ASUSTek Computer Inc
	Model NO.	AX5400
	FCC ID	MSQ-RTAXJ300

Note:1. The Slave device associated with the EUT during these tests does not have radar detection capability.

2. WLAN traffic is generated by using the iperf software to send packets from the Master IP address to the Slave IP address.

3. The time required for the master and slave devices to fully start up is 120s.

4. EUT does not support TPC.

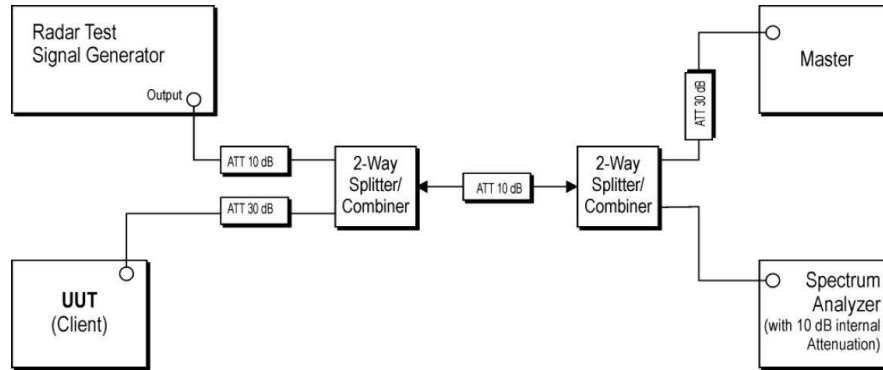
10.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

10.8 IN-SERVICE SMARTPHONEING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS smartphoneing system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is Streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom In 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Mode	Frequency (MHz)
ac80	5290
n40	5310
a	5320

10.9 RESULT OF CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD FOR CLIENT BEACON TEST

Test data reference attachment.

11. ANTENNA REQUIREMENT

11.1 STANDARD 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.

11.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

END OF REPORT