



FCC RADIO TEST REPORT

Applicant : Shuttle Inc.

Address : No. 30, Lane 76, Rui Guang Rd. Nei-Hu Dist.,
Taipei, Taiwan

Equipment : XPC nano

Model No. : NS03

Trade Name : Shuttle

FCC ID : S8CNS03

I HEREBY CERTIFY THAT :

The sample was received on May. 26, 2022 and the testing was completed on Jun. 21, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Vic Hsiao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





CONTENTS

1.	Summary of Test Procedure and Test Results	5
1.1.	Applicable Standards	5
2.	Test Configuration of Equipment under Test	6
2.1.	Feature of Equipment and Model Description.....	6
2.2.	Carrier Frequency of Channels	7
2.3.	Test Mode and Test Software	9
2.4.	Description of Test System.....	11
2.5.	General Information of Test.....	13
2.6.	Measurement Uncertainty	14
3.	Test Equipment and Ancillaries Used for Tests	15
4.	Antenna Requirements	17
4.1.	Standard Applicable	17
4.2.	Antenna Construction and Directional Gain.....	18
5.	Test of AC Power Line Conducted Emission	19
5.1.	Test Limit	19
5.2.	Test Procedures	19
5.3.	Typical Test Setup	20
5.4.	Test Result and Data.....	21
5.5.	Test Photographs	25
6.	Test of Spurious Emission (Radiated).....	26
6.1.	Test Limit	26
6.2.	Test Procedures	27
6.3.	Typical Test Setup	28
6.4.	Test Result and Data (9kHz ~ 30MHz).....	29
6.5.	Test Result and Data (30MHz ~ 1GHz)	29
6.6.	Test Result and Data (1GHz ~ 40GHz).....	33
6.7.	Restricted Bands of Operation	109
6.8.	Test Photographs (30MHz ~ 1GHz).....	110
6.9.	Test Photographs (1GHz ~ 40GHz)	111
7.	On Time, Duty Cycle and Measurement methods	113
7.1.	Test Limit	113
7.2.	Test Procedure	113
7.3.	Test Setup Layout	113
7.4.	Test Result and Data.....	114
7.5.	Measurement Methods	114
8.	6dB Bandwidth & 99% Occupied Bandwidth	116
8.1.	Test Limit	116
8.2.	Test Procedure	116
8.3.	Test Setup Layout	116
8.4.	Test Result and Data.....	117
9.	26dB Bandwidth & 99% Occupied Bandwidth	122
9.1.	Test Limit	122



9.2.	Test Procedure	122
9.3.	Test Setup Layout	122
9.4.	Test Result and Data (26dB Bandwidth)	122
9.5.	Test Result and Data (99% Occupied Bandwidth)	124
10.	Average Power	138
10.1.	Test Limit	138
10.2.	Test Procedure	139
10.3.	Test Setup Layout	139
10.4.	Test Result and Data	140
11.	Maximum Power Spectral Density	144
11.1.	Test Limit	144
11.2.	Test Procedure	144
11.3.	Test Setup Layout	144
11.4.	Test Result and Data	145
12.	Radio Frequency Exposure	155
12.1.	Applicable Standards	155
12.2.	EUT Specification	155
12.3.	Test Results	155
12.4.	Calculation	156
12.5.	Maximum Permissible Exposure	157



History of this test report

Report No.	Issued Date	Description
22050246-TRFCC04	Jul. 04, 2022	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment and Model Description

Operation Frequency Range	BT / BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
Center Frequency Range	BT / BLE: 2402MHz-2480MHz 802.11b/g/n: 2412MHz-2462MHz 802.11a/n/ac: 5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, FHSS, DTS
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps GFSK: 2 Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	PIFA Antenna
Antenna Gain	For BT: 2400-2500MHz: 1.11dBi For WLAN: 2400-2500MHz: 1.11dBi 5150-5250MHz: 3.20dBi 5250-5350MHz: 3.20dBi 5470-5725MHz: 2.47dBi 5725-5850MHz: 2.69dBi
Adapter	Brand: APD Model: WA-36N12R
Battery	Brand: VIC-DAWN ENTERPRISE CO LTD Model: CR2032
Firmware Number	NS03_Series_STD_1.0.7_20220503
Serial Number	NS03000201M14F00008

Note:

1. EUT support TPC Function.
2. EUT support Client Mode without radar detection.
3. For more details, please refer to the User's manual of the EUT.



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*36	5180	44	5220
*40	5200	*48	5240

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

802.11ac VHT80

Channel	Frequency(MHz)
*42	5210

Band: 5250MHz-5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*52	5260	*60	5300
56	5280	*64	5320

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*54	5270	*62	5310

802.11ac VHT80

Channel	Frequency(MHz)
*58	5290

Band: 5470MHz -5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
*116	5580	*140	5700
120	5600		

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*102	5510	126	5630
110	5550	*134	5670
*118	5590		

802.11ac VHT80

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*106	5530	*122	5610



Band: Straddle Channel

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)
*144	5720

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)
*142	5710

802.11ac VHT80

Channel	Frequency(MHz)
*138	5690

Band: 5725MHz -5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*149	5745	161	5805
153	5765	*165	5825
*157	5785		

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

802.11ac VHT80

Channel	Frequency(MHz)
*155	5775

Note: Channels remarked * are selected to perform test.



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, " Ampak RFTestTool ver.7.0" under Android system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps) , From Adapter (AC 120V/60Hz)
2	802.11n HT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
3	802.11n HT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
4	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
5	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
6	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 120V/60Hz)
7	802.11a (6Mbps) , From Adapter (AC 240V/60Hz)
8	802.11n HT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
9	802.11n HT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
10	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
11	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
12	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 240V/60Hz)
13	Normal Mode ,From Adapter (AC 120V / 60Hz)
14	Normal Mode ,From Adapter (AC 240V / 60Hz)
15	Normal Mode ,From PoE (AC 120V / 60Hz)
16	Normal Mode ,From PoE(AC 240V / 60Hz)
caused "Test Mode 1,14" generated the worst case, it was reported as the final data.	



Radiation Emissions (9KHz ~30MHz & 30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , From Adapter (AC 120V/60Hz)
2	802.11n HT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
3	802.11n HT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
4	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
5	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
6	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 120V/60Hz)
7	802.11a (6Mbps) , From Adapter (AC 240V/60Hz)
8	802.11n HT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
9	802.11n HT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
10	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
11	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
12	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 240V/60Hz)
13	Normal Mode ,From Adapter(AC 120V / 60Hz)
14	Normal Mode ,From Adapter (AC 240V / 60Hz)
15	Normal Mode ,From PoE (AC 120V / 60Hz)
16	Normal Mode ,From PoE(AC 240V / 60Hz)
caused "Test Mode 1,13" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) , From Adapter (AC 120V/60Hz)
2	802.11n HT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
3	802.11n HT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
4	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 120V/60Hz)
5	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 120V/60Hz)
6	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 120V/60Hz)
7	802.11a (6Mbps) , From Adapter (AC 240V/60Hz)
8	802.11n HT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
9	802.11n HT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
10	802.11ac VHT20 (6.5Mbps) , From Adapter (AC 240V/60Hz)
11	802.11ac VHT40 (13.5Mbps) , From Adapter (AC 240V/60Hz)
12	802.11ac VHT80 (29.3Mbps) , From Adapter (AC 240V/60Hz)
caused "Test Mode 1,4~6" generated the worst case, they were reported as the final data.	

Modulation Type	TX CONFIGURATION
802.11a	1TX
802.11n HT20	1TX
802.11n HT40	1TX
802.11ac VHT20	1TX
802.11ac VHT40	1TX
802.11ac VHT80	1TX



2.4. Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
HDMI Cable	YD-TECH	H1	1.8m / S	N/A
Monitor	ViewSonic	VS16024	NA	N/A
Radiated Emissions(ABOVE1G)				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
HDMI Cable*2	YD-TECH	H2	1.8m / S	N/A
Monitor	ViewSonic	VS16024	NA	N/A
Transcend Dongle*2	TranScend	USB3.0 16GB	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Mouse	DELL	MS116t1	2m / NS	N/A
Earphone	Apple	Earpods	1.2m / NS	N/A
SD Card	TranScend	16GB	N/A	N/A
Radiated Emissions(BELOW1G)				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	N/A	N/A
HDMI Cable*2	YD-TECH	H2	1.8m / S	N/A
Monitor	ViewSonic	VS16024	NA	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Transcend Dongle*2	TranScend	USB3.0 16GB	1.8m / NS	N/A
Mouse	DELL	MS116t	1.8m / NS	N/A
Mobile Phone	MI	M1906G7G	N/A	N/A
Earphone	Apple	Earpods	1.2m / NS	N/A
POE converter	Silvertel	PSR-1922503	N/A	N/A
Adapter	APD	PA-1650-65	1.8m/NS	N/A
Power cord	I-SHENG	spt-2	1.8m/NS	N/A
Power cord(2)	FlyingWay	FWAT-001	0.3m/NS	N/A
SD Card	TranScend	16GB	N/A	N/A



AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
USB Cable (A to A)	BENEVO	E210567AWM	1m / NS	N/A
HDMI Cable*2	YD-TECH	H2	1.8m / S	N/A
Monitor	DELL	U2410f	NA	N/A
Transcend Dongle*2	TranScend	USB3.0 16GB	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
Mouse	DELL	MS116t1	2m / NS	N/A
Earphone	Apple	Earpods	1.2m / NS	N/A
Mobile Phone	MI	M1906G7G	N/A	N/A
SD Card	TranScend	16GB	N/A	N/A
POE converter	Silvertel	PSR-1922503	N/A	N/A
Adapter	APD	PA-1650-65	1.8m/NS	N/A
Power cord	I-SHENG	spt-2	1.8m/NS	N/A
Power cord(2)	FlyingWay	FWAT-001	0.3m/NS	N/A



2.5. General Information of Test

Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2022/06/06~2022/06/08	25~28°C / 40~41%	Dian Chen
Radiated Emissions	3M02-NK	2022/06/05~2022/06/19	20~25°C / 42~55%	Dian Chen
AC Power Line Conducted Emission	CON01-NK	2022/06/10~2022/06/21	24~27°C / 47~60%	Dian Chen



2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	$\pm 3.12\text{dB}$
Radiated Spurious Emission(9KHz~30MHz)	$\pm 3.4\text{dB}$
Radiated Spurious Emission(30MHz~1GHz)	$\pm 5.7\text{dB}$
Radiated Spurious Emission(1GHz~40GHz)	$\pm 6.8\text{dB}$
6dB Bandwidth	$\pm 4.4\%$
26dB Bandwidth	$\pm 4.4\%$
Occupied Bandwidth	$\pm 4.4\%$
Peak Output Power(Conducted Power Meter)	$\pm 1.1\text{dB}$
Power Spectral Density	$\pm 1.8\text{dB}$
Duty Cycle	$\pm 1.2\%$
Frequency Stability	$\pm 0.21\text{KHz}$



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2021/11/05	2022/11/04
Horn Antenna	EMCO	3115	31601	2021/10/14	2022/10/13
Horn Antenna	EMCO	3116	31974	2021/10/04	2022/10/03
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2022/01/07	2023/01/06
EMI Receiver	ROHDE & SCHWARZ	ESCI	100821	2021/11/16	2022/11/15
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/08/06	2022/08/05
Preamplifier	Agilent	8449B	3008A01954	2022/03/17	2023/03/16
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2021/11/16	2022/11/15
Preamplifier	EM Electronics corp.	EM330	60658	2021/10/13	2022/10/12
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/09/22	2022/09/21
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2022/03/21	2023/03/20
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2022/01/11	2023/01/10
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 102	MY4569/2	2021/09/03	2022/09/02
Cable-1m(1G-40G)	HUBER SUHNER	SUCOFLEX 102	MY5739/2	2021/09/03	2022/09/02
Cable-6m(1G-40G)	HUBER SUHNER	SUCOFLEX 102	MY5740/2	2021/09/03	2022/09/02
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2022/01/11	2023/01/10
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2022/01/11	2023/01/10
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2022/04/25	2023/04/24
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2022/03/04	2023/03/03
Attenuator	KEYSIGHT	8491B	MY39250703	2022/04/12	2023/04/11
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2022/04/09	2023/04/08
Power Meter	Anritsu	ML2495A	1224005	2022/04/12	2023/04/11
Power Sensor	Anritsu	MA2411B	1207295	2022/04/12	2023/04/11
Switch Box	Theda	1-4	TW5451159	NA	NA
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2022/03/04	2023/03/03



Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101200	2021/8/30	2022/8/29
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-516	2021/10/5	2022/10/4
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101933	2021/9/15	2022/9/14
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130605	2021/9/22	2022/9/21
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.



4.2. Antenna Construction and Directional Gain

Antenna Type	PIFA Antenna
Antenna Gain	5180-5240MHz: 3.20dBi 5260-5320MHz: 3.20dBi 5500-5700MHz: 2.47dBi 5745-5825MHz: 2.69dBi



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

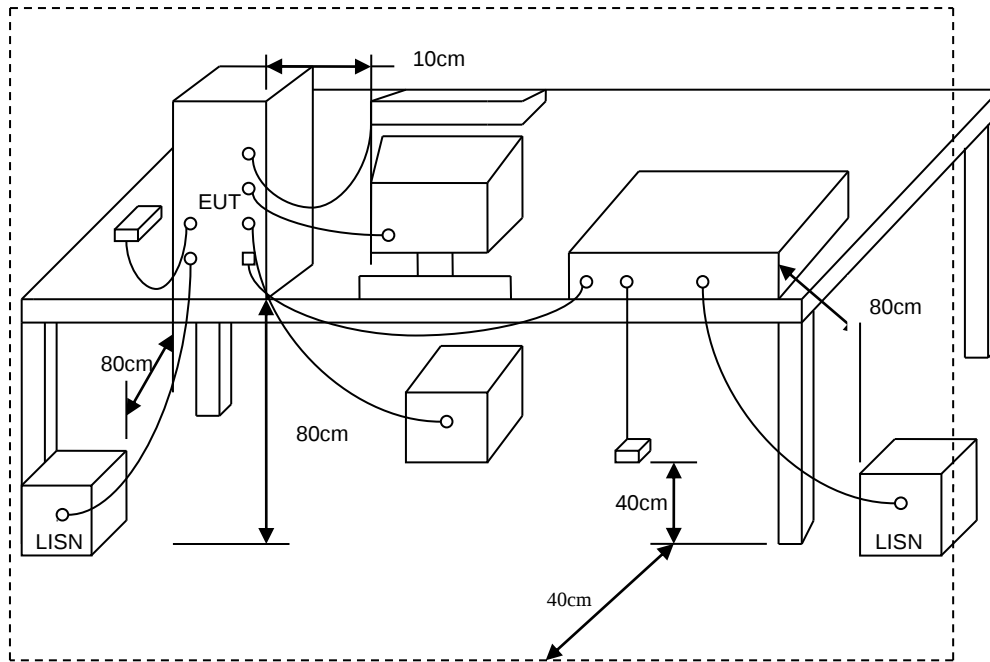
*Decreases with the logarithm of the frequency.

5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



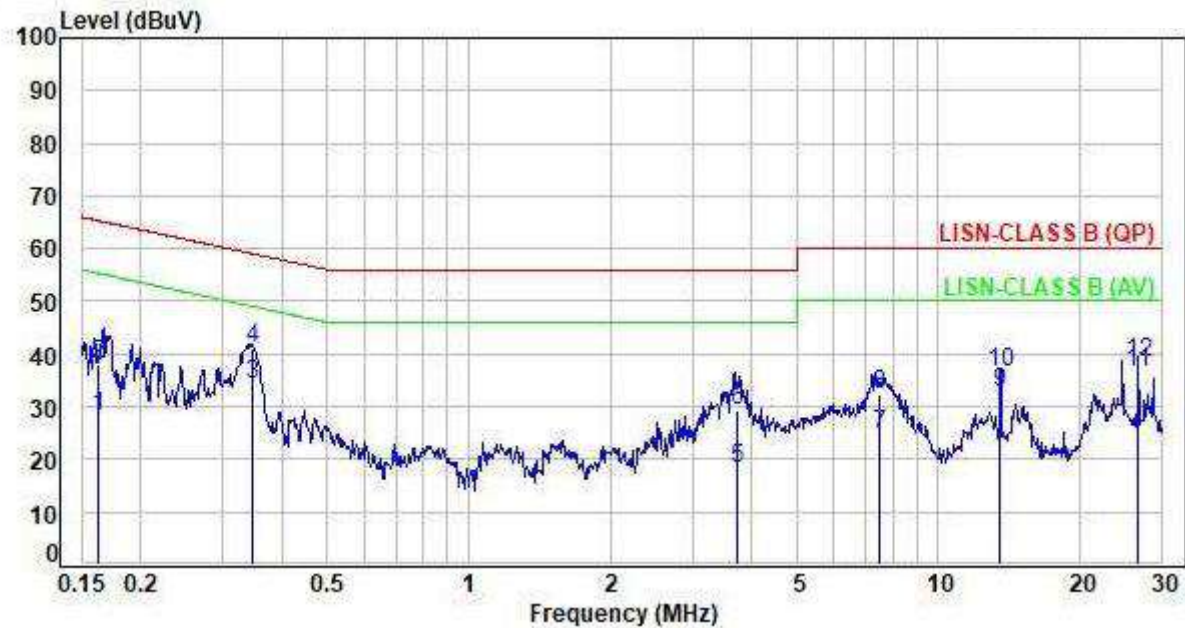
5.3. Typical Test Setup





5.4. Test Result and Data

Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.96	18.34	28.30	55.36	-27.06	Average	P
2	0.16	9.96	28.21	38.17	65.36	-27.19	QP	P
3	0.35	9.95	24.35	34.30	49.07	-14.77	Average	P
4	0.35	9.95	31.14	41.09	59.07	-17.98	QP	P
5	3.75	10.20	8.21	18.41	46.00	-27.59	Average	P
6	3.75	10.20	19.02	29.22	56.00	-26.78	QP	P
7	7.47	10.37	14.17	24.54	50.00	-25.46	Average	P
8	7.47	10.37	21.81	32.18	60.00	-27.82	QP	P
9	13.56	10.57	21.98	32.55	50.00	-17.45	Average	P
10	13.56	10.57	26.09	36.66	60.00	-23.34	QP	P
11	26.62	10.90	25.77	36.67	50.00	-13.33	Average	P
12	26.62	10.90	27.39	38.29	60.00	-21.71	QP	P

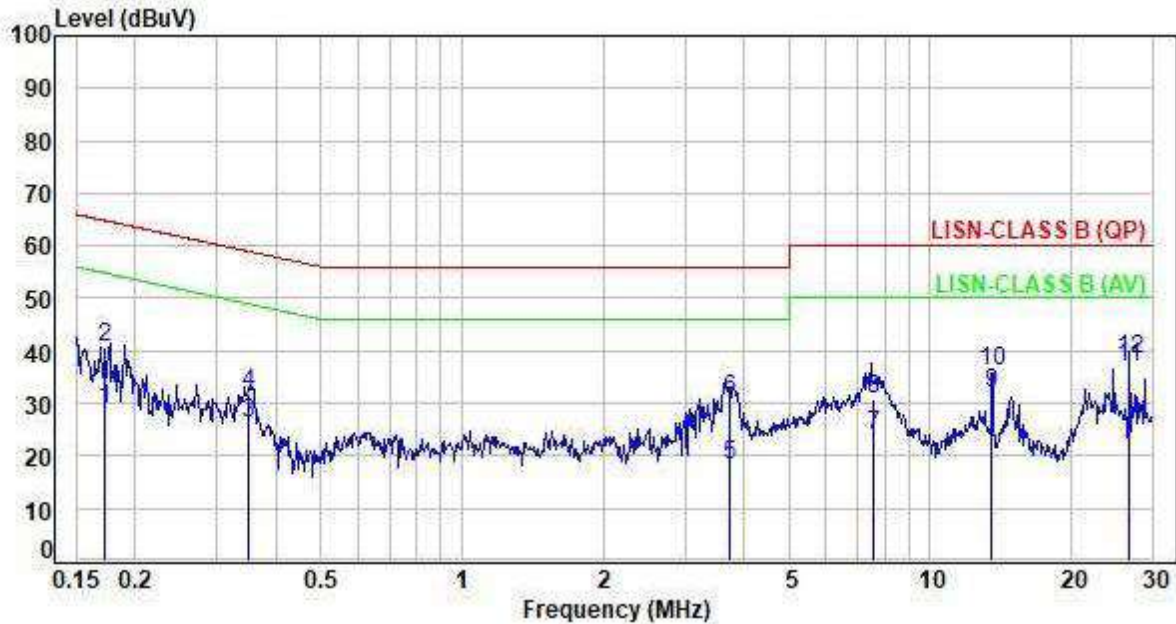
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.17	9.94	18.81	28.75	54.83	-26.08	Average	P
2	0.17	9.94	30.60	40.54	64.83	-24.29	QP	P
3	0.35	9.94	16.12	26.06	48.95	-22.89	Average	P
4	0.35	9.94	21.93	31.87	58.95	-27.08	QP	P
5	3.74	10.12	8.04	18.16	46.00	-27.84	Average	P
6	3.74	10.12	20.52	30.64	56.00	-25.36	QP	P
7	7.59	10.27	13.75	24.02	50.00	-25.98	Average	P
8	7.59	10.27	20.42	30.69	60.00	-29.31	QP	P
9	13.56	10.46	21.37	31.83	50.00	-18.17	Average	P
10	13.56	10.46	25.70	36.16	60.00	-23.84	QP	P
11	26.62	10.81	26.10	36.91	50.00	-13.09	Average	P
12	26.62	10.81	27.73	38.54	60.00	-21.46	QP	P

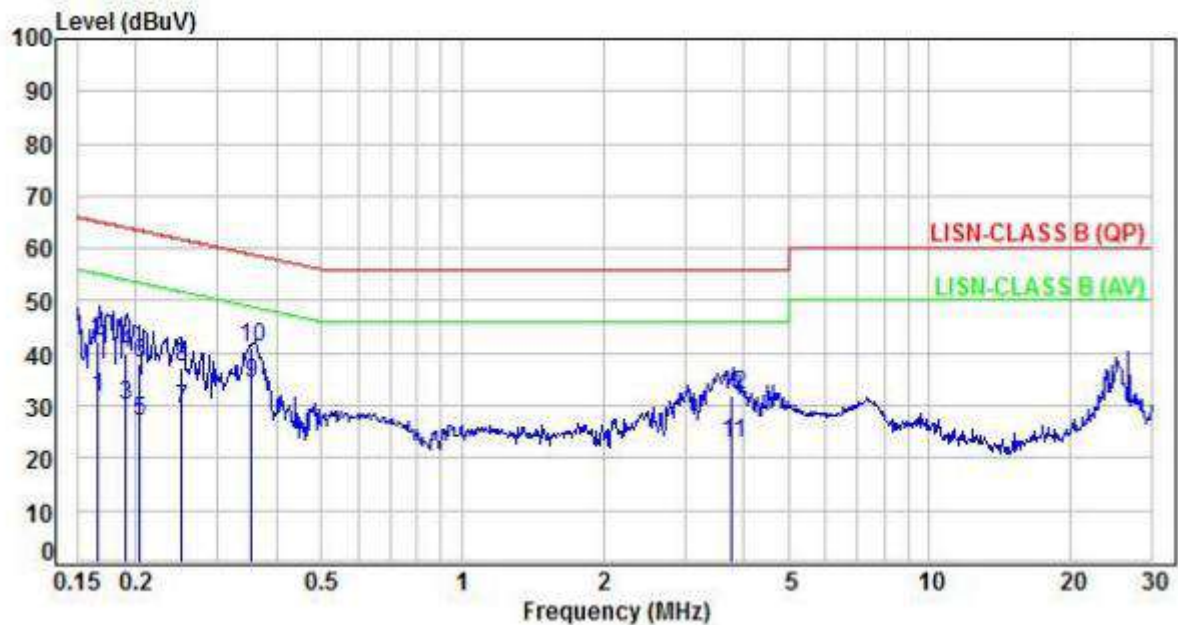
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	DC 12V From Adapter (AC 240V / 60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 14		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.96	21.79	31.75	55.15	-23.40	Average	P
2	0.17	9.96	32.18	42.14	65.15	-23.01	QP	P
3	0.19	9.95	20.26	30.21	54.03	-23.82	Average	P
4	0.19	9.95	29.85	39.80	64.03	-24.23	QP	P
5	0.20	9.95	17.17	27.12	53.49	-26.37	Average	P
6	0.20	9.95	28.26	38.21	63.49	-25.28	QP	P
7	0.25	9.95	19.33	29.28	51.78	-22.50	Average	P
8	0.25	9.95	27.30	37.25	61.78	-24.53	QP	P
9	0.35	9.96	24.33	34.29	48.87	-14.58	Average	P
10	0.35	9.96	31.01	40.97	58.87	-17.90	QP	P
11	3.77	10.20	12.63	22.83	46.00	-23.17	Average	P
12	3.77	10.20	21.57	31.77	56.00	-24.23	QP	P

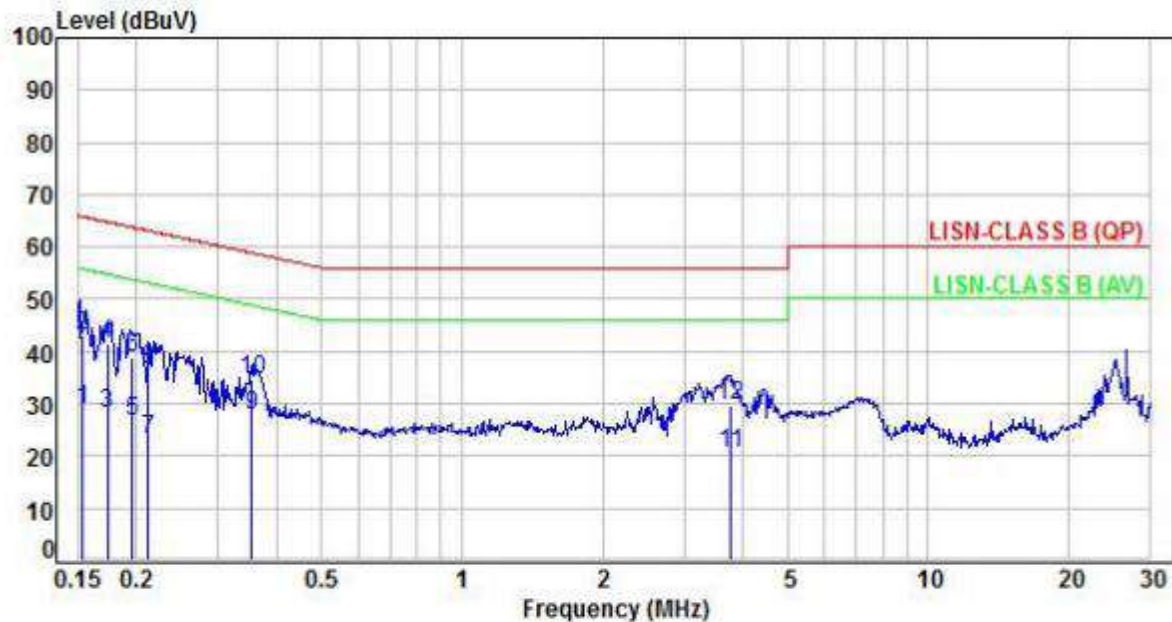
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	DC 12V From Adapter (AC 240V / 60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 14		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.15	9.94	19.03	28.97	55.85	-26.88	Average	P
2	0.15	9.94	33.10	43.04	65.85	-22.81	QP	P
3	0.17	9.93	18.02	27.95	54.80	-26.85	Average	P
4	0.17	9.93	31.37	41.30	64.80	-23.50	QP	P
5	0.20	9.93	16.74	26.67	53.78	-27.11	Average	P
6	0.20	9.93	28.86	38.79	63.78	-24.99	QP	P
7	0.21	9.93	13.19	23.12	53.14	-30.02	Average	P
8	0.21	9.93	26.51	36.44	63.14	-26.70	QP	P
9	0.35	9.94	17.67	27.61	48.85	-21.24	Average	P
10	0.35	9.94	24.76	34.70	58.85	-24.15	QP	P
11	3.75	10.12	10.35	20.47	46.00	-25.53	Average	P
12	3.75	10.12	19.36	29.48	56.00	-26.52	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) 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:
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 25MHz 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 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



6.2. Test Procedures

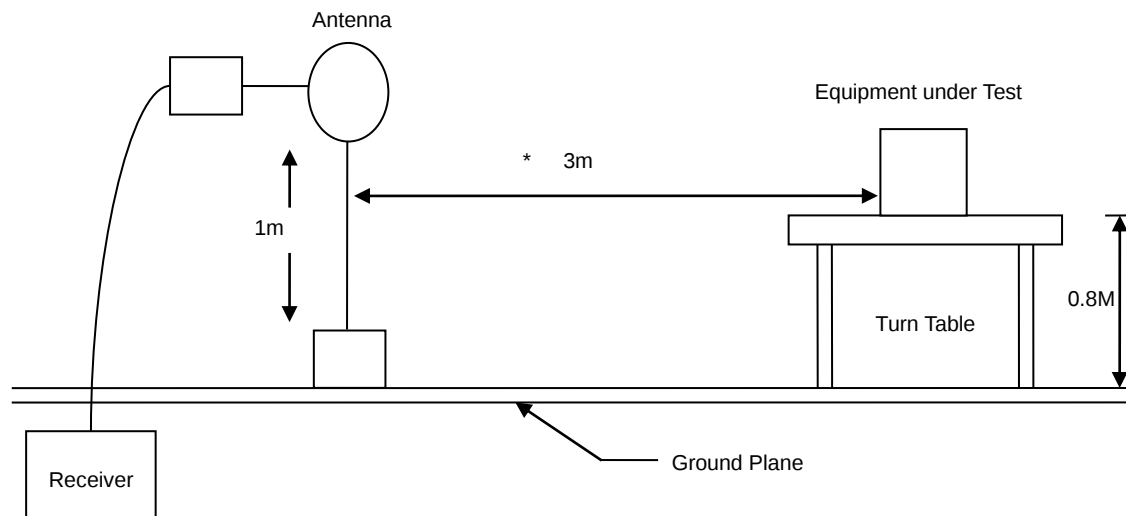
- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

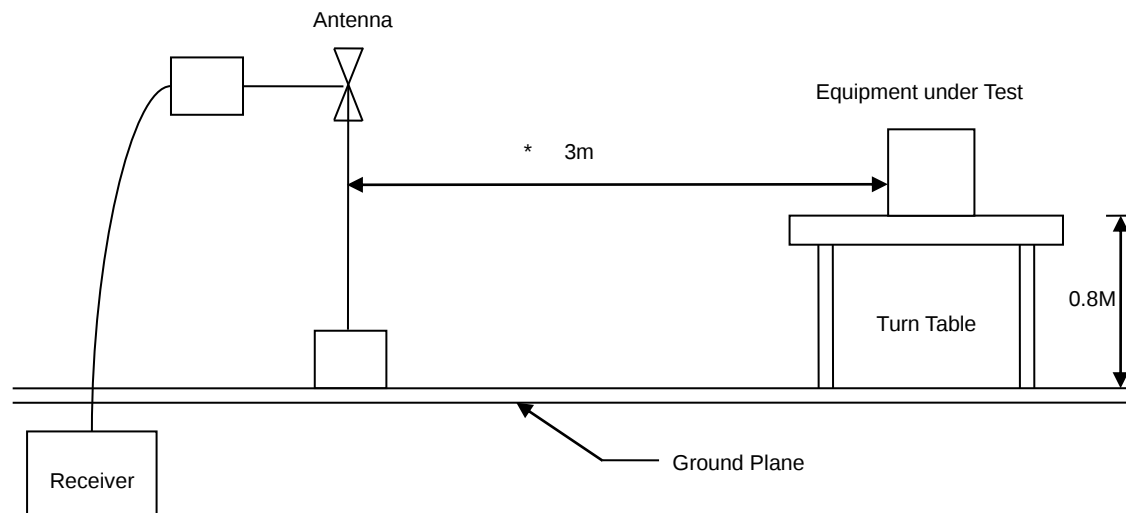


6.3. Typical Test Setup

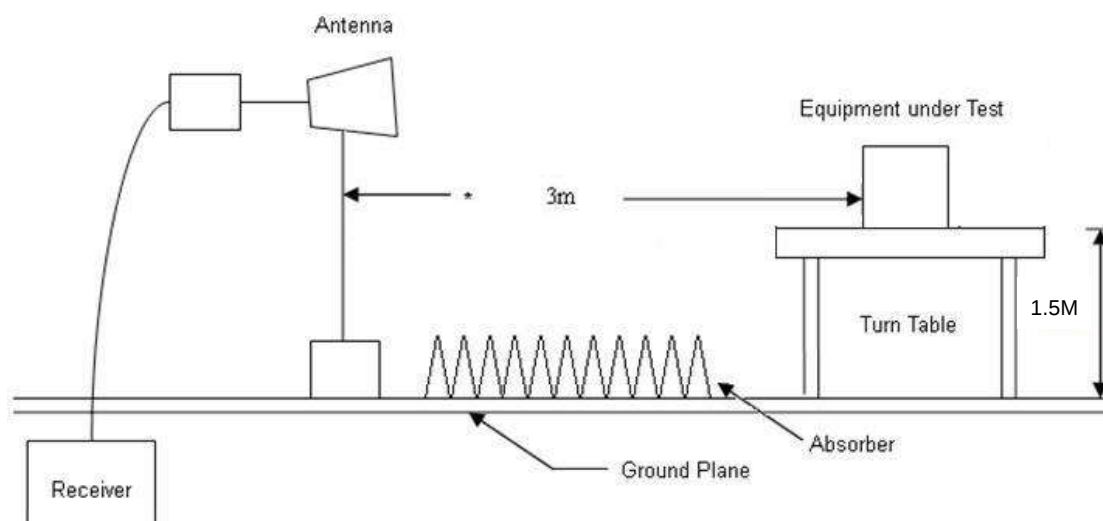
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



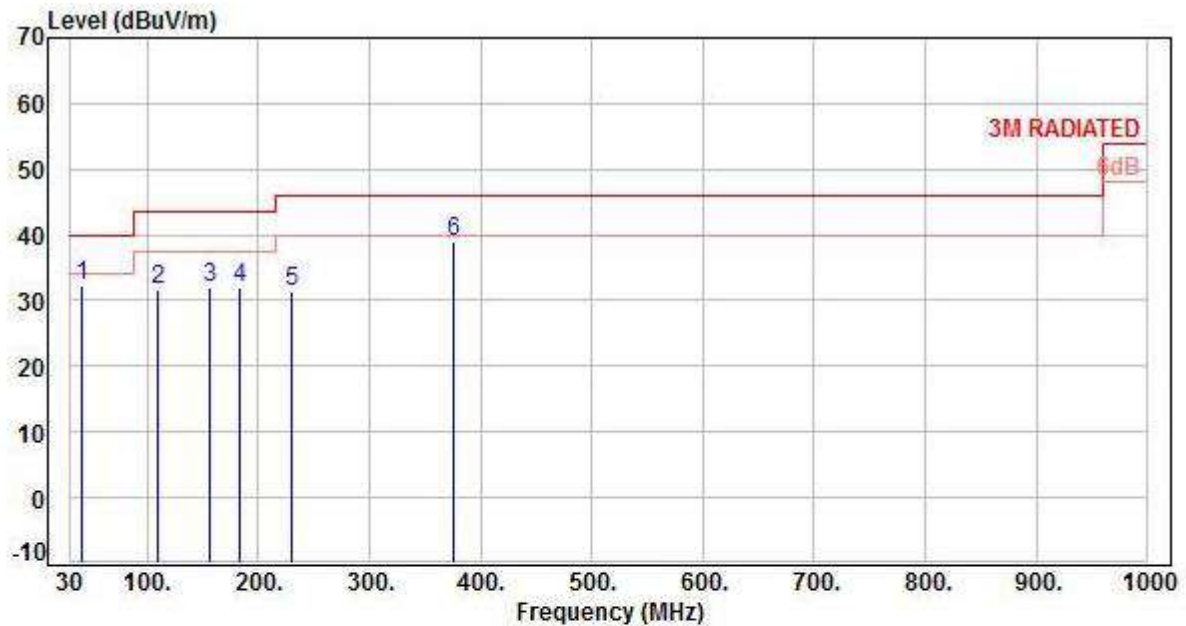


6.4. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5. Test Result and Data (30MHz ~ 1GHz)

Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	41.64	-11.66	43.84	32.18	40.00	-7.82	Peak	400	0	P
2	109.54	-14.49	46.29	31.80	43.50	-11.70	Peak	400	0	P
3	156.10	-11.36	43.46	32.10	43.50	-11.40	Peak	400	0	P
4	183.26	-13.03	44.87	31.84	43.50	-11.66	Peak	400	0	P
5	229.82	-13.96	45.30	31.34	46.00	-14.66	Peak	400	0	P
6	375.32	-8.25	47.25	39.00	46.00	-7.00	Peak	400	0	P

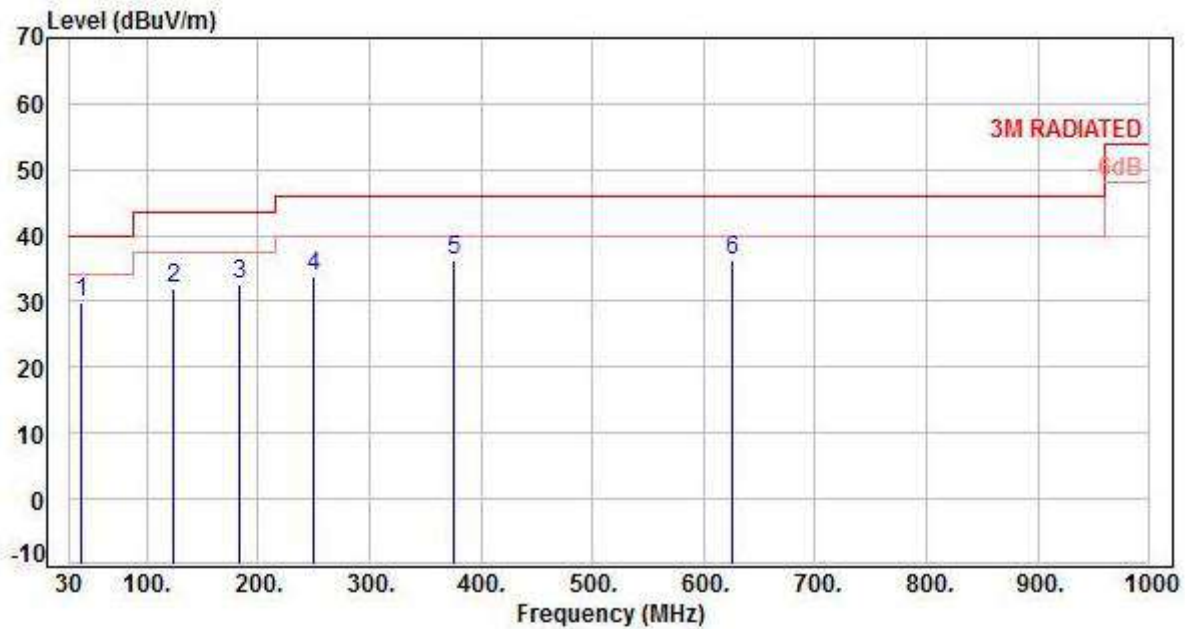
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	41.64	-11.66	41.52	29.86	40.00	-10.14	Peak	400	0	P
2	123.12	-13.53	45.62	32.09	43.50	-11.41	Peak	400	0	P
3	183.26	-13.03	45.65	32.62	43.50	-10.88	Peak	400	0	P
4	249.22	-12.08	45.80	33.72	46.00	-12.28	Peak	400	0	P
5	376.29	-8.23	44.45	36.22	46.00	-9.78	Peak	400	0	P
6	625.58	-2.29	38.57	36.28	46.00	-9.72	Peak	400	0	P

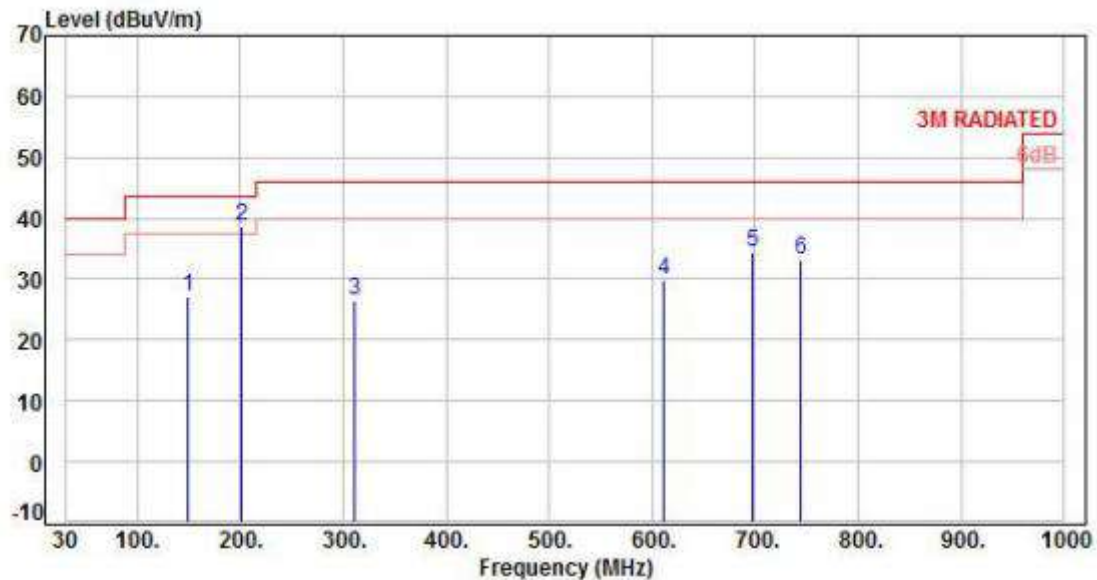
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 13		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	148.34	-11.51	38.60	27.09	43.50	-16.41	Peak	100	0	P
2	200.72	-13.27	52.07	38.80	43.50	-4.70	Peak	100	0	P
3	311.30	-9.77	36.19	26.42	46.00	-19.58	Peak	100	0	P
4	612.00	-2.63	32.57	29.94	46.00	-16.06	Peak	100	0	P
5	697.36	-1.31	35.66	34.35	46.00	-11.65	Peak	100	0	P
6	743.92	-0.41	33.52	33.11	46.00	-12.89	Peak	100	0	P

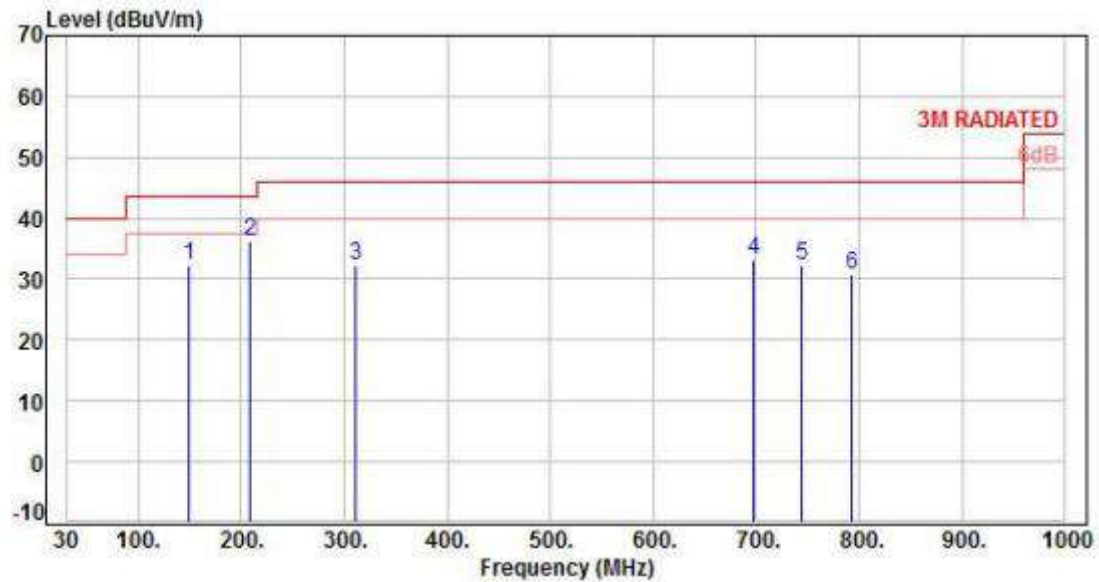
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 13		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	148.34	-11.51	43.71	32.20	43.50	-11.30	Peak	100	0	P
2	208.48	-13.52	49.74	36.22	43.50	-7.28	Peak	100	0	P
3	311.30	-9.77	41.95	32.18	46.00	-13.82	Peak	100	0	P
4	697.36	-1.31	34.61	33.30	46.00	-12.70	Peak	100	0	P
5	743.92	-0.41	32.81	32.40	46.00	-13.60	Peak	100	0	P
6	792.42	0.44	30.33	30.77	46.00	-15.23	Peak	100	0	P

Note: Level=Reading+Factor

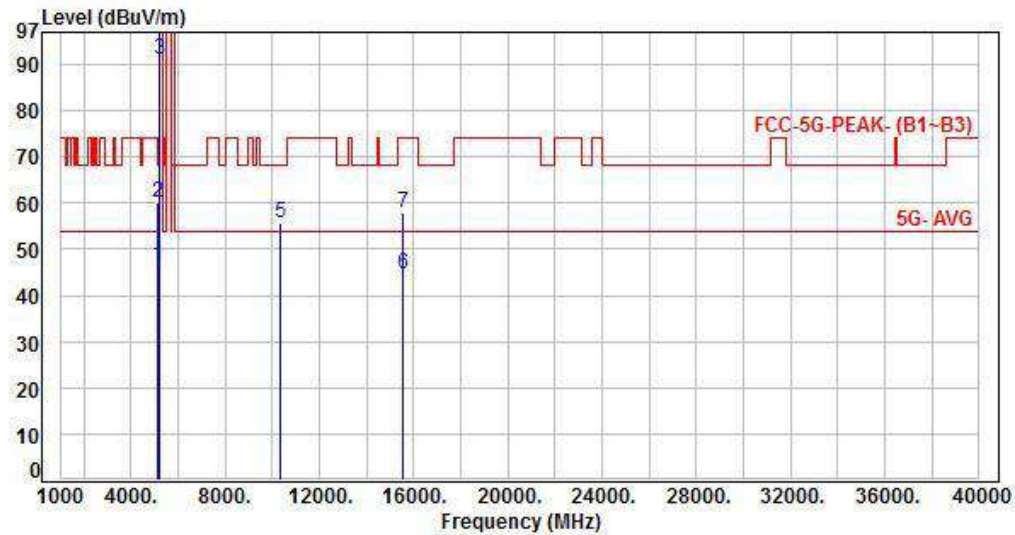
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.6. Test Result and Data (1GHz ~ 40GHz)

Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.35	46.36	54.00	-7.64	Average	100	123	P
2	5150.00	6.01	54.11	60.12	74.00	-13.88	Peak	100	123	P
3	5180.00	6.03	85.24	91.27	200.00	-108.73	Average	100	123	P
4	5180.00	6.03	94.34	100.37	200.00	-99.63	Peak	100	123	P
5	10360.00	13.23	42.38	55.61	68.20	-12.59	Peak	100	227	P
6	15540.00	16.03	28.49	44.52	54.00	-9.48	Average	100	79	P
7	15540.00	16.03	41.76	57.79	74.00	-16.21	Peak	100	79	P

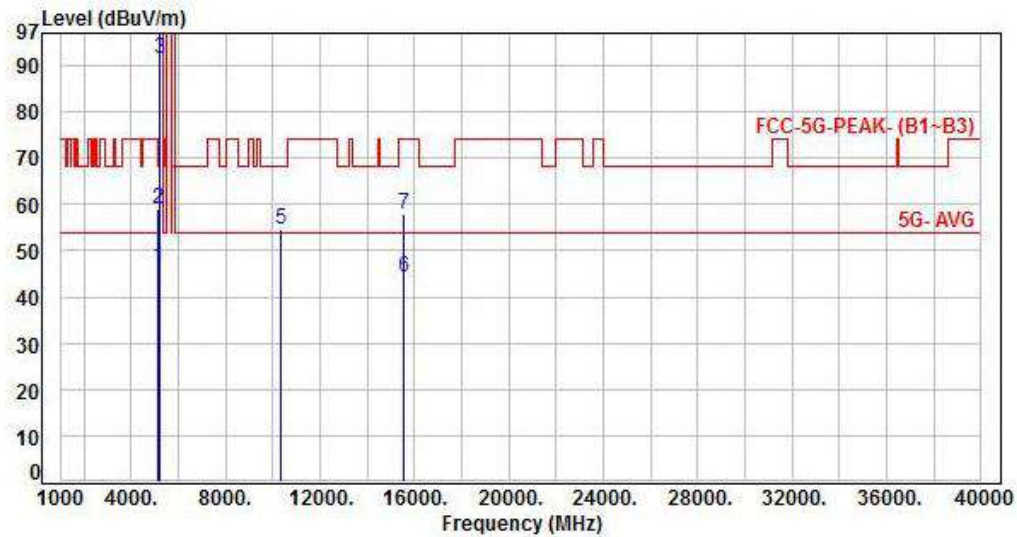
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.34	46.35	54.00	-7.65	Average	100	24	P
2	5150.00	6.01	52.88	58.89	74.00	-15.11	Peak	100	24	P
3	5180.00	6.03	85.51	91.54	200.00	-108.46	Average	100	24	P
4	5180.00	6.03	94.70	100.73	200.00	-99.27	Peak	100	24	P
5	10360.00	13.23	41.51	54.74	68.20	-13.46	Peak	100	134	P
6	15540.00	16.03	28.24	44.27	54.00	-9.73	Average	100	304	P
7	15540.00	16.03	41.86	57.89	74.00	-16.11	Peak	100	304	P

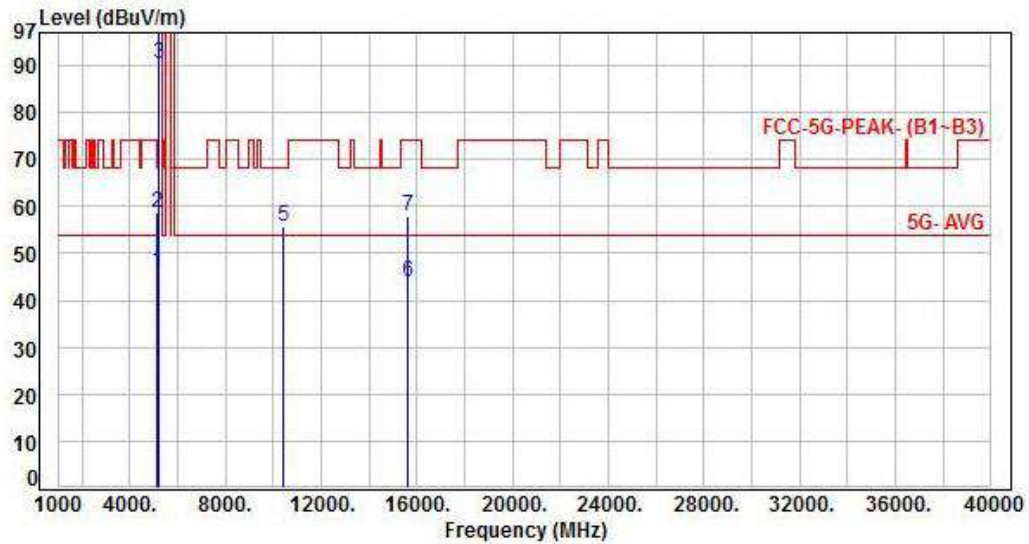
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.97	45.98	54.00	-8.02	Average	100	116	P
2	5150.00	6.01	52.64	58.65	74.00	-15.35	Peak	100	116	P
3	5200.00	6.04	84.22	90.26	200.00	-109.74	Average	100	116	P
4	5200.00	6.04	93.61	99.65	200.00	-100.35	Peak	100	116	P
5	10400.00	13.27	42.43	55.70	68.20	-12.50	Peak	100	225	P
6	15600.00	15.83	28.16	43.99	54.00	-10.01	Average	100	77	P
7	15600.00	15.83	42.17	58.00	74.00	-16.00	Peak	100	77	P

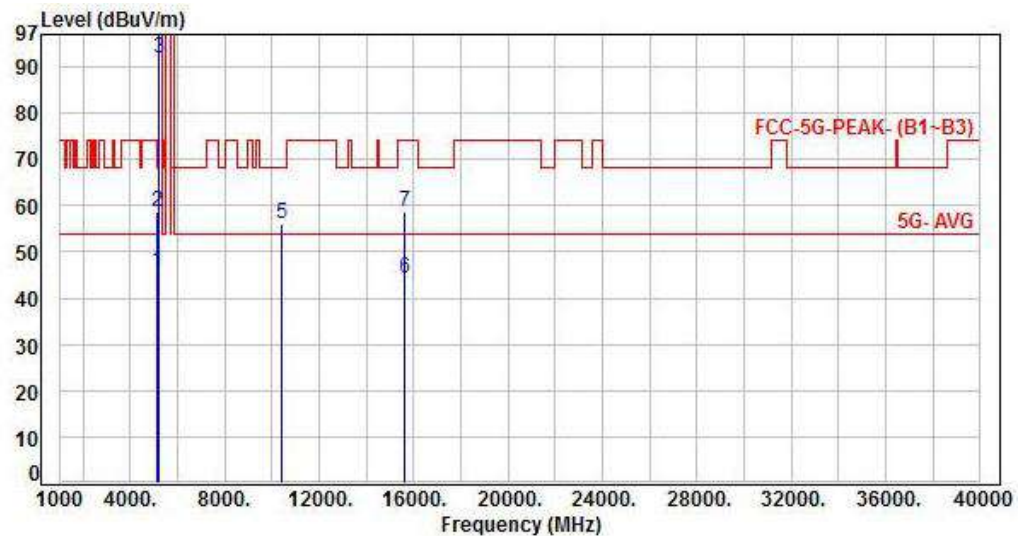
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.90	45.91	54.00	-8.09	Average	111	23	P
2	5150.00	6.01	52.72	58.73	74.00	-15.27	Peak	111	23	P
3	5200.00	6.04	85.62	91.66	200.00	-108.34	Average	111	23	P
4	5200.00	6.04	94.89	100.93	200.00	-99.07	Peak	111	23	P
5	10400.00	13.27	42.61	55.88	68.20	-12.32	Peak	100	133	P
6	15600.00	15.83	28.47	44.30	54.00	-9.70	Average	100	302	P
7	15600.00	15.83	42.73	58.56	74.00	-15.44	Peak	100	302	P

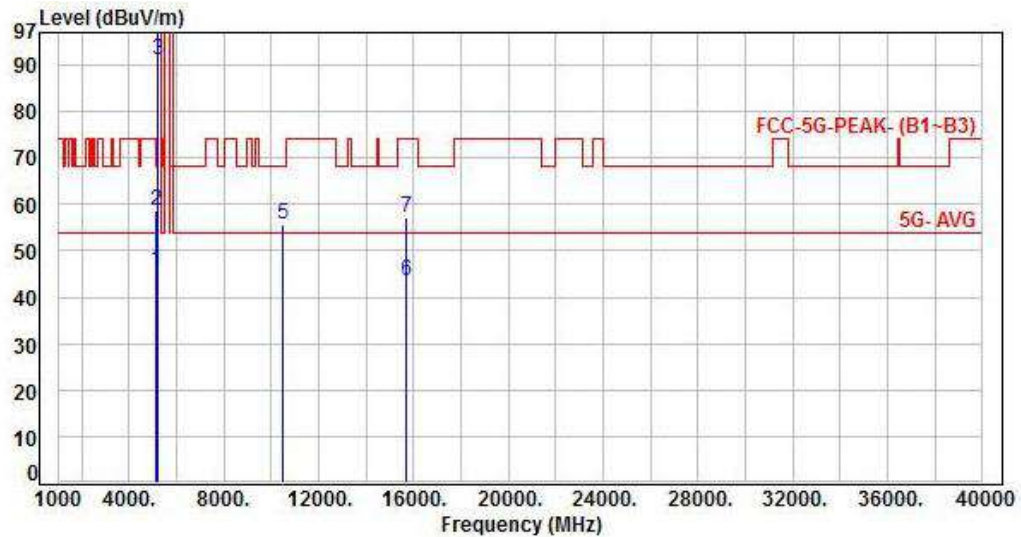
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.88	45.89	54.00	-8.11	Average	100	96	P
2	5150.00	6.01	52.60	58.61	74.00	-15.39	Peak	100	96	P
3	5240.00	6.08	84.97	91.05	200.00	-108.95	Average	100	96	P
4	5240.00	6.08	94.35	100.43	200.00	-99.57	Peak	100	96	P
5	10480.00	13.47	42.31	55.78	68.20	-12.42	Peak	100	228	P
6	15720.00	15.32	28.38	43.70	54.00	-10.30	Average	100	82	P
7	15720.00	15.32	41.86	57.18	74.00	-16.82	Peak	100	82	P

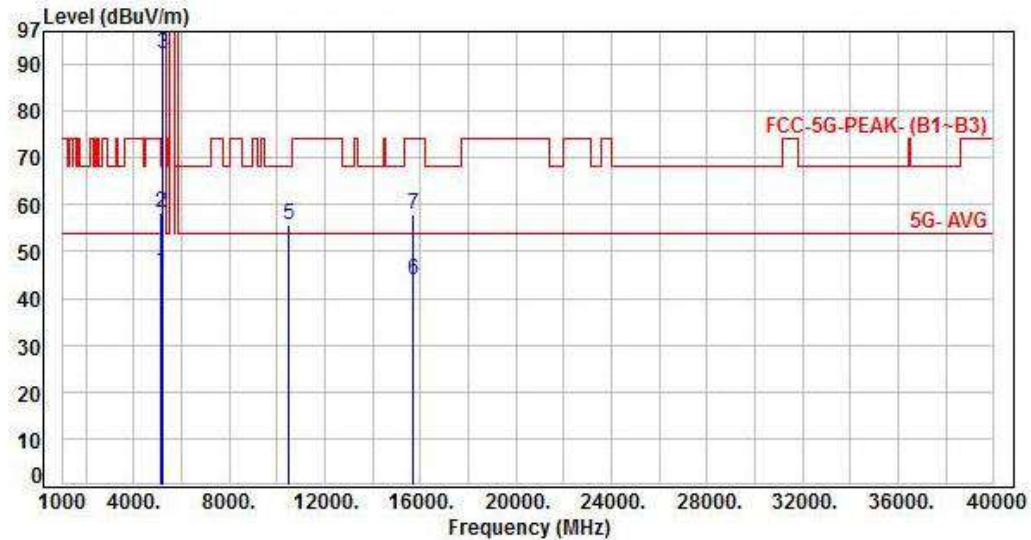
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.81	45.82	54.00	-8.18	Average	116	21	P
2	5150.00	6.01	52.41	58.42	74.00	-15.58	Peak	116	21	P
3	5240.00	6.08	86.29	92.37	200.00	-107.63	Average	116	21	P
4	5240.00	6.08	95.54	101.62	200.00	-98.38	Peak	116	21	P
5	10480.00	13.47	42.28	55.75	68.20	-12.45	Peak	100	134	P
6	15720.00	15.32	28.45	43.77	54.00	-10.23	Average	100	307	P
7	15720.00	15.32	42.67	57.99	74.00	-16.01	Peak	100	307	P

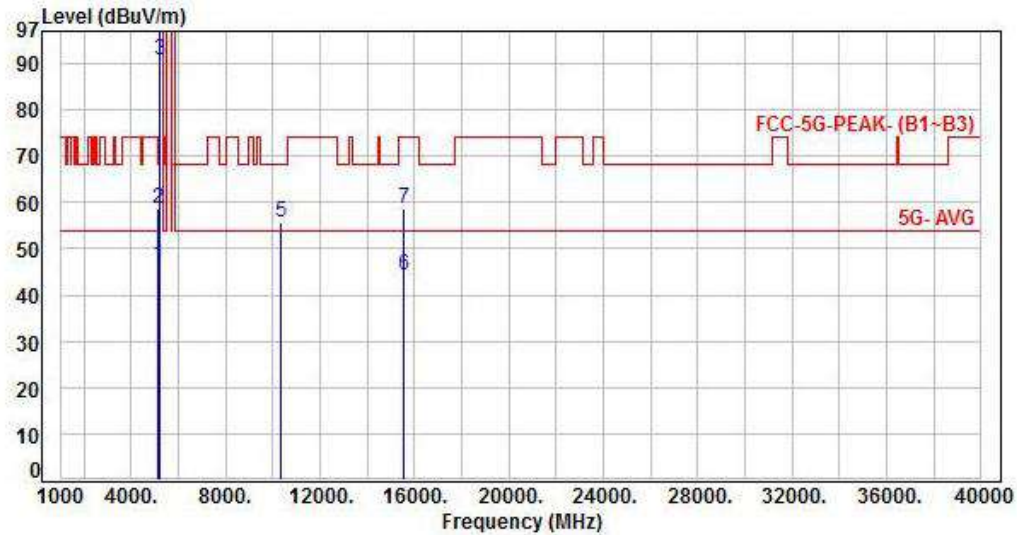
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.37	46.38	54.00	-7.62	Average	100	123	P
2	5150.00	6.01	52.80	58.81	74.00	-15.19	Peak	100	123	P
3	5180.00	6.03	84.71	90.74	200.00	-109.26	Average	100	123	P
4	5180.00	6.03	94.04	100.07	200.00	-99.93	Peak	100	123	P
5	10360.00	13.23	42.29	55.52	68.20	-12.68	Peak	100	226	P
6	15540.00	16.03	28.19	44.22	54.00	-9.78	Average	100	78	P
7	15540.00	16.03	42.51	58.54	74.00	-15.46	Peak	100	78	P

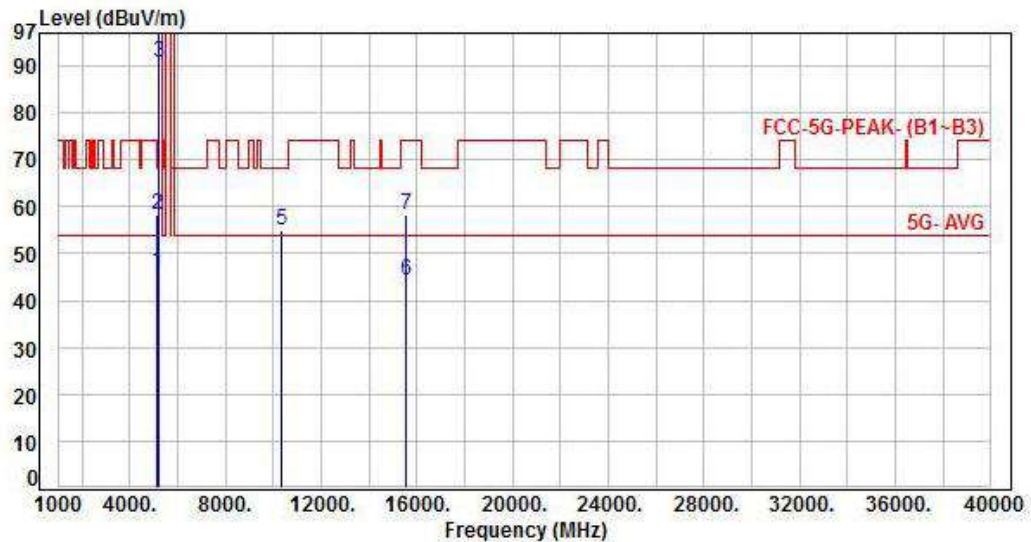
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 1, CH36		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.12	46.13	54.00	-7.87	Average	100	26	P
2	5150.00	6.01	52.28	58.29	74.00	-15.71	Peak	100	26	P
3	5180.00	6.03	84.64	90.67	200.00	-109.33	Average	100	26	P
4	5180.00	6.03	94.81	100.84	200.00	-99.16	Peak	100	26	P
5	10360.00	13.23	41.69	54.92	68.20	-13.28	Peak	100	135	P
6	15540.00	16.03	28.15	44.18	54.00	-9.82	Average	100	299	P
7	15540.00	16.03	42.37	58.40	74.00	-15.60	Peak	100	299	P

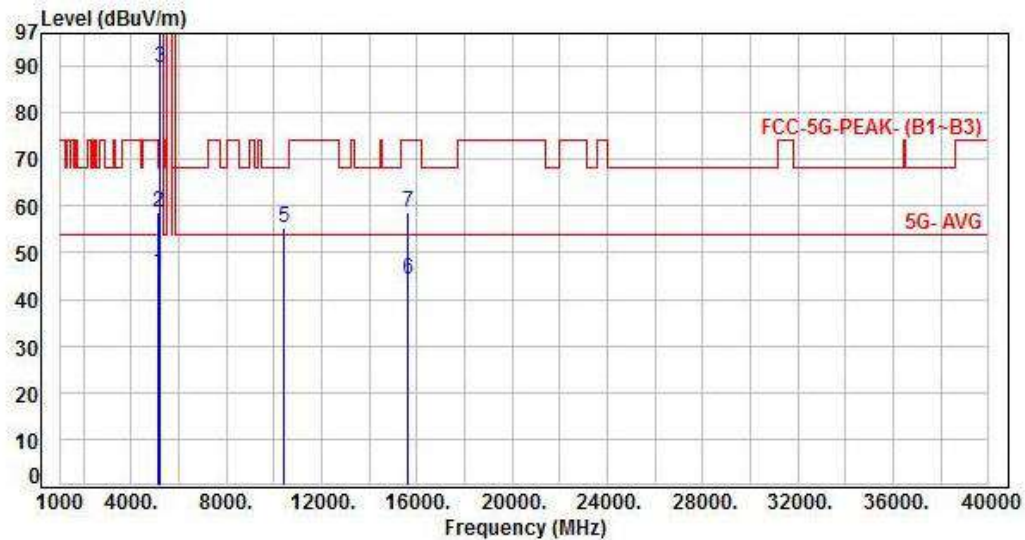
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.78	45.79	54.00	-8.21	Average	100	118	P
2	5150.00	6.01	52.71	58.72	74.00	-15.28	Peak	100	118	P
3	5200.00	6.04	83.57	89.61	200.00	-110.39	Average	100	118	P
4	5200.00	6.04	93.41	99.45	200.00	-100.55	Peak	100	118	P
5	10400.00	13.27	41.92	55.19	68.20	-13.01	Peak	100	228	P
6	15600.00	15.83	28.55	44.38	54.00	-9.62	Average	100	82	P
7	15600.00	15.83	42.79	58.62	74.00	-15.38	Peak	100	82	P

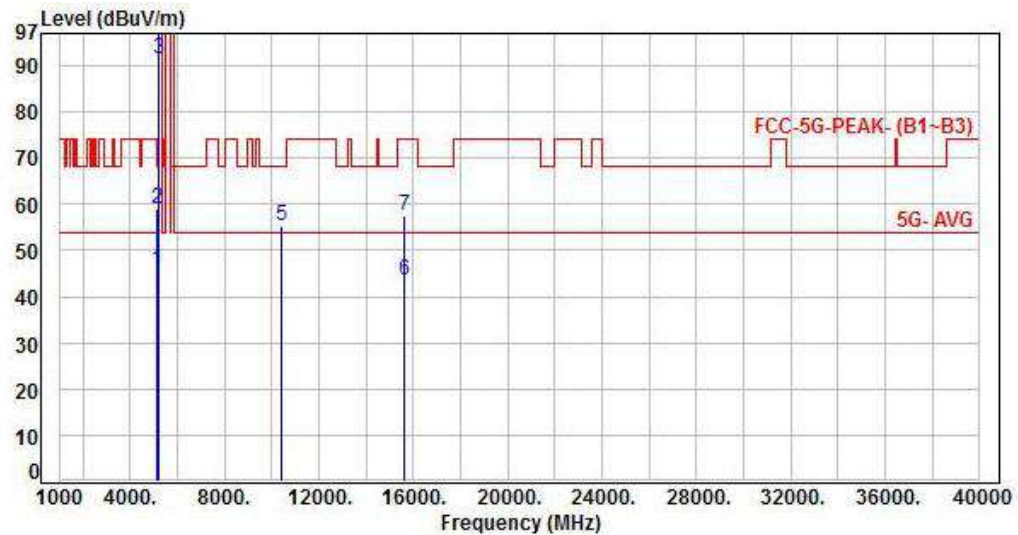
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 1, CH40		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.90	45.91	54.00	-8.09	Average	134	18	P
2	5150.00	6.01	53.01	59.02	74.00	-14.98	Peak	134	18	P
3	5200.00	6.04	85.45	91.49	200.00	-108.51	Average	134	18	P
4	5200.00	6.04	94.77	100.81	200.00	-99.19	Peak	134	18	P
5	10400.00	13.27	41.87	55.14	68.20	-13.06	Peak	100	134	P
6	15600.00	15.83	27.84	43.67	54.00	-10.33	Average	100	306	P
7	15600.00	15.83	41.81	57.64	74.00	-16.36	Peak	100	306	P

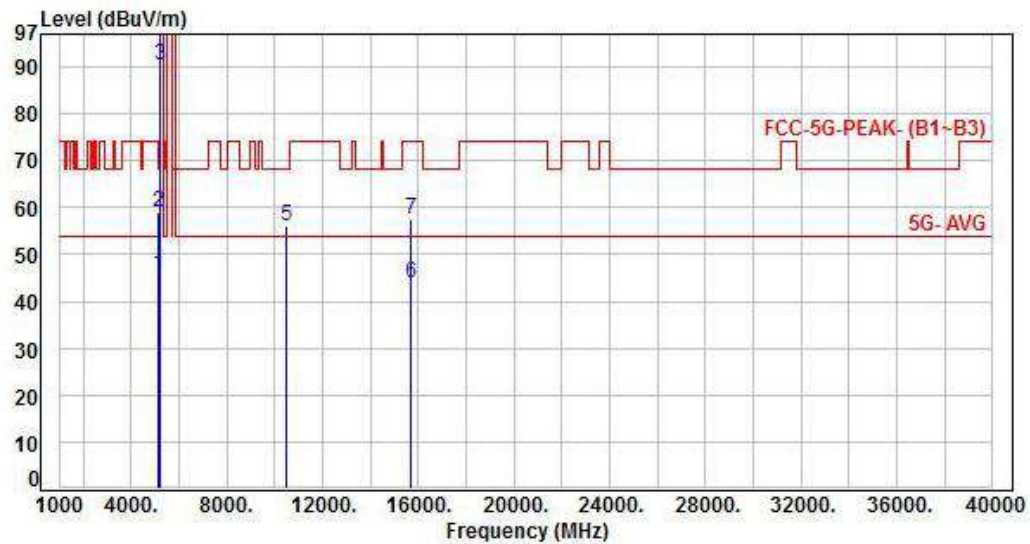
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.86	45.87	54.00	-8.13	Average	100	59	P
2	5150.00	6.01	53.16	59.17	74.00	-14.83	Peak	100	59	P
3	5240.00	6.08	84.21	90.29	200.00	-109.71	Average	100	59	P
4	5240.00	6.08	93.56	99.64	200.00	-100.36	Peak	100	59	P
5	10480.00	13.47	42.62	56.09	68.20	-12.11	Peak	100	228	P
6	15720.00	15.32	28.49	43.81	54.00	-10.19	Average	100	77	P
7	15720.00	15.32	42.19	57.51	74.00	-16.49	Peak	100	77	P

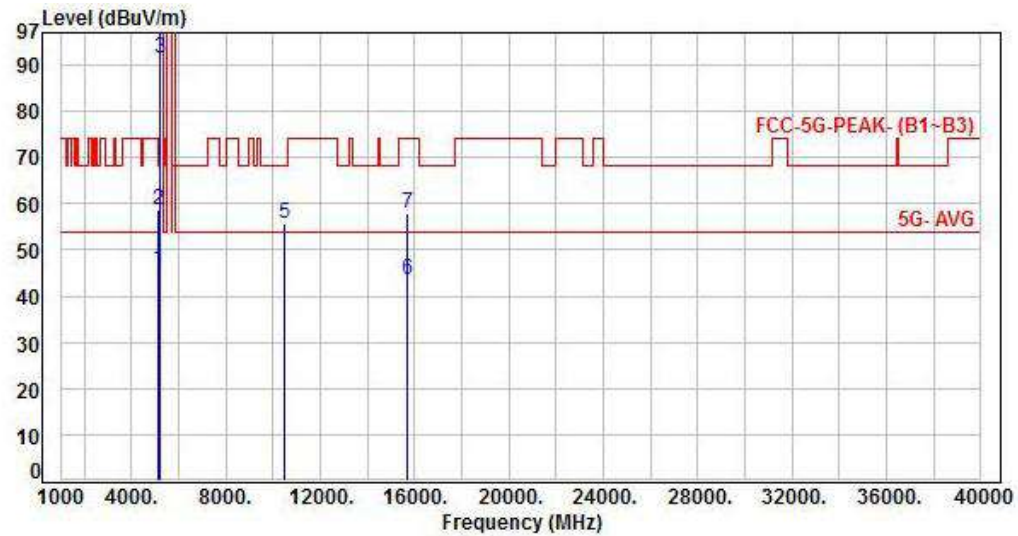
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 1, CH48		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	39.81	45.82	54.00	-8.18	Average	100	22	P
2	5150.00	6.01	52.75	58.76	74.00	-15.24	Peak	100	22	P
3	5240.00	6.08	85.47	91.55	200.00	-108.45	Average	100	22	P
4	5240.00	6.08	95.21	101.29	200.00	-98.71	Peak	100	22	P
5	10480.00	13.47	42.06	55.53	68.20	-12.67	Peak	100	131	P
6	15720.00	15.32	28.36	43.68	54.00	-10.32	Average	100	300	P
7	15720.00	15.32	42.53	57.85	74.00	-16.15	Peak	100	300	P

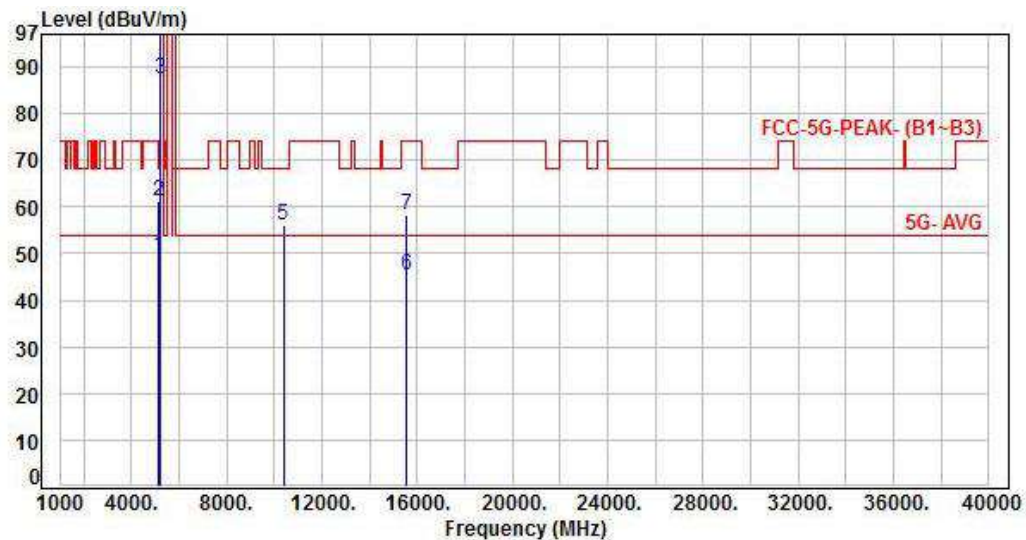
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	43.57	49.58	54.00	-4.42	Average	100	58	P
2	5150.00	6.01	55.10	61.11	74.00	-12.89	Peak	100	58	P
3	5190.00	6.04	81.34	87.38	200.00	-112.62	Average	100	58	P
4	5190.00	6.04	90.72	96.76	200.00	-103.24	Peak	100	58	P
5	10380.00	13.26	42.74	56.00	68.20	-12.20	Peak	100	230	P
6	15570.00	15.93	29.35	45.28	54.00	-8.72	Average	100	75	P
7	15570.00	15.93	42.52	58.45	74.00	-15.55	Peak	100	75	P

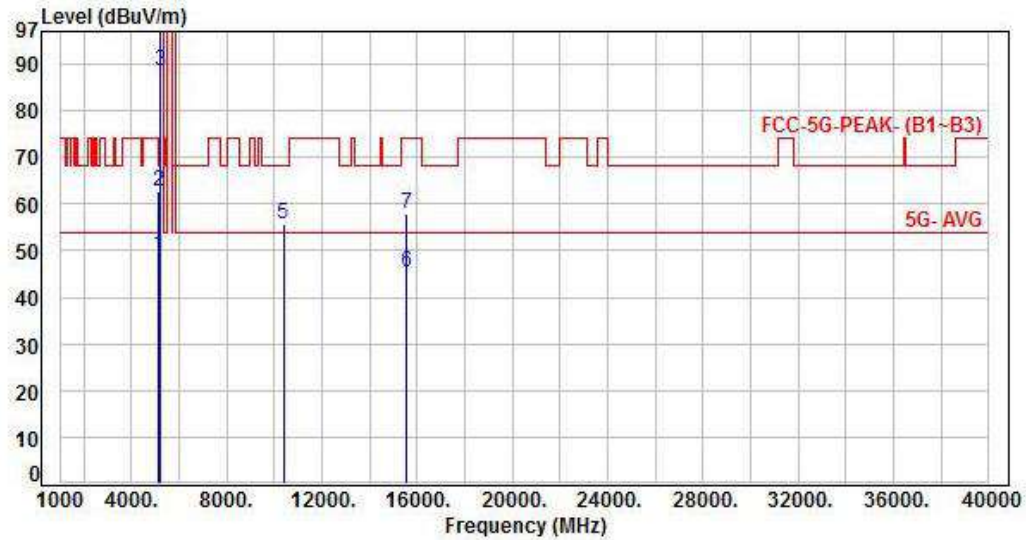
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 1, CH38		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	43.17	49.18	54.00	-4.82	Average	100	21	P
2	5150.00	6.01	56.76	62.77	74.00	-11.23	Peak	100	21	P
3	5190.00	6.04	82.52	88.56	200.00	-111.44	Average	100	21	P
4	5190.00	6.04	92.10	98.14	200.00	-101.86	Peak	100	21	P
5	10380.00	13.26	42.38	55.64	68.20	-12.56	Peak	100	133	P
6	15570.00	15.93	29.47	45.40	54.00	-8.60	Average	100	297	P
7	15570.00	15.93	41.79	57.72	74.00	-16.28	Peak	100	297	P

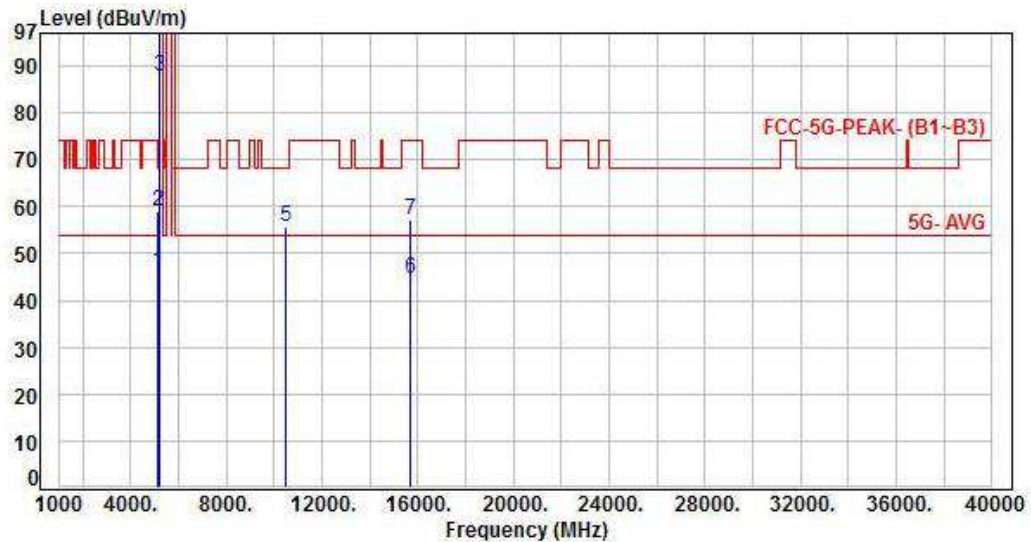
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.19	46.20	54.00	-7.80	Average	100	58	P
2	5150.00	6.01	52.83	58.84	74.00	-15.16	Peak	100	58	P
3	5230.00	6.08	81.70	87.78	200.00	-112.22	Average	100	58	P
4	5230.00	6.08	91.11	97.19	200.00	-102.81	Peak	100	58	P
5	10460.00	13.42	42.43	55.85	68.20	-12.35	Peak	100	224	P
6	15690.00	15.35	29.45	44.80	54.00	-9.20	Average	100	80	P
7	15690.00	15.35	41.81	57.16	74.00	-16.84	Peak	100	80	P

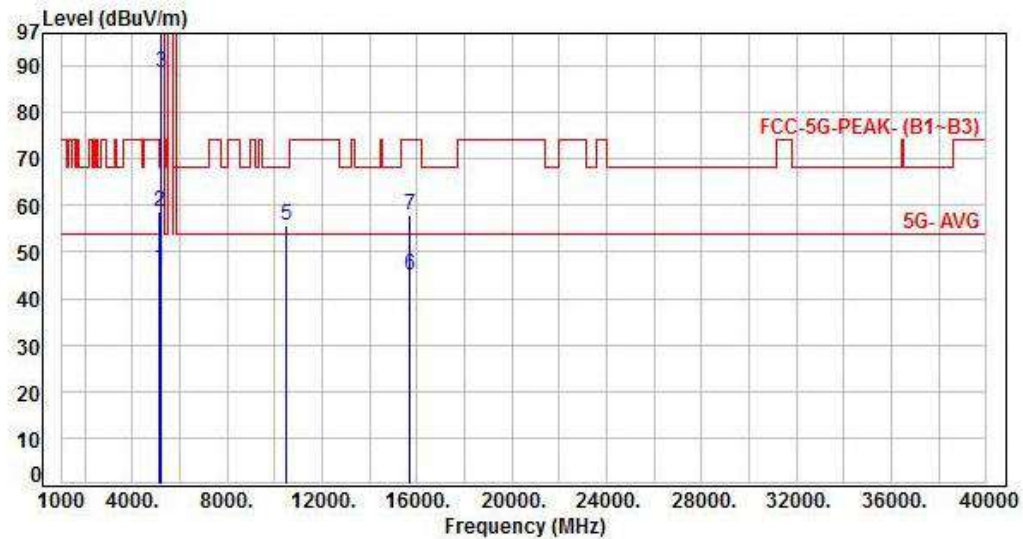
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 1, CH46		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	40.32	46.33	54.00	-7.67	Average	116	19	P
2	5150.00	6.01	52.66	58.67	74.00	-15.33	Peak	116	19	P
3	5230.00	6.08	82.57	88.65	200.00	-111.35	Average	116	19	P
4	5230.00	6.08	92.03	98.11	200.00	-101.89	Peak	116	19	P
5	10460.00	13.42	42.15	55.57	68.20	-12.63	Peak	100	137	P
6	15690.00	15.35	29.79	45.14	54.00	-8.86	Average	100	303	P
7	15690.00	15.35	42.41	57.76	74.00	-16.24	Peak	100	303	P

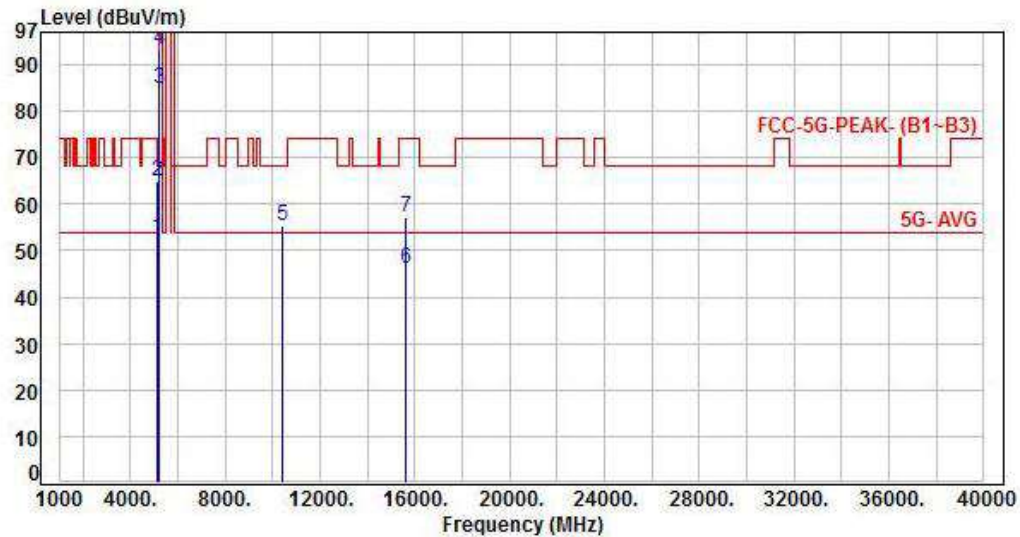
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	46.65	52.66	54.00	-1.34	Average	100	123	P
2	5150.00	6.01	58.83	64.84	74.00	-9.16	Peak	100	123	P
3	5210.00	6.06	78.65	84.71	200.00	-115.29	Average	100	123	P
4	5210.00	6.06	87.12	93.18	200.00	-106.82	Peak	100	123	P
5	10420.00	13.32	41.90	55.22	68.20	-12.98	Peak	100	228	P
6	15630.00	15.66	30.55	46.21	54.00	-7.79	Average	100	79	P
7	15630.00	15.66	41.59	57.25	74.00	-16.75	Peak	100	79	P

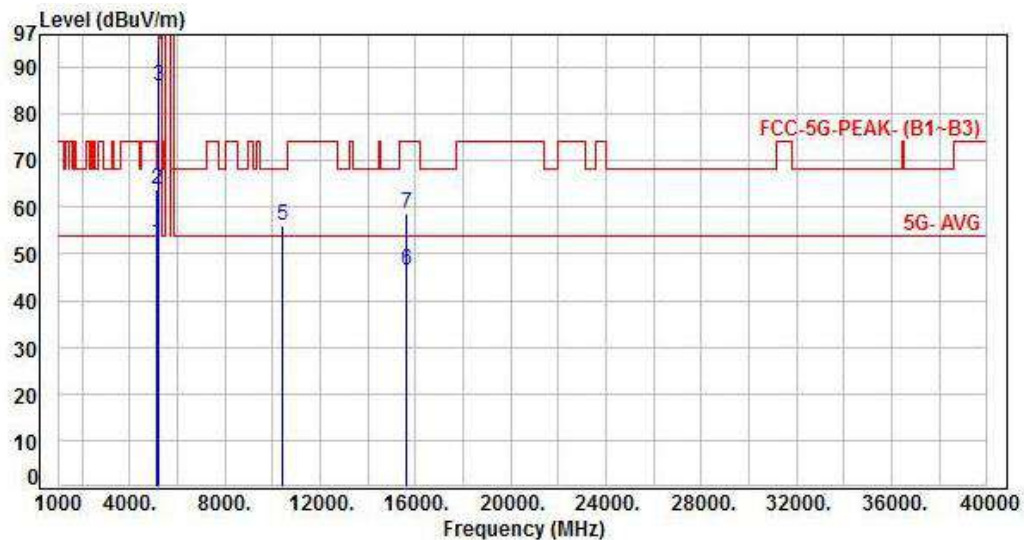
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 1, CH42		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	6.01	46.47	52.48	54.00	-1.52	Average	136	17	P
2	5150.00	6.01	57.82	63.83	74.00	-10.17	Peak	136	17	P
3	5210.00	6.06	79.93	85.99	200.00	-114.01	Average	136	17	P
4	5210.00	6.06	88.67	94.73	200.00	-105.27	Peak	136	17	P
5	10420.00	13.32	42.66	55.98	68.20	-12.22	Peak	100	134	P
6	15630.00	15.66	30.75	46.41	54.00	-7.59	Average	100	308	P
7	15630.00	15.66	42.93	58.59	74.00	-15.41	Peak	100	308	P

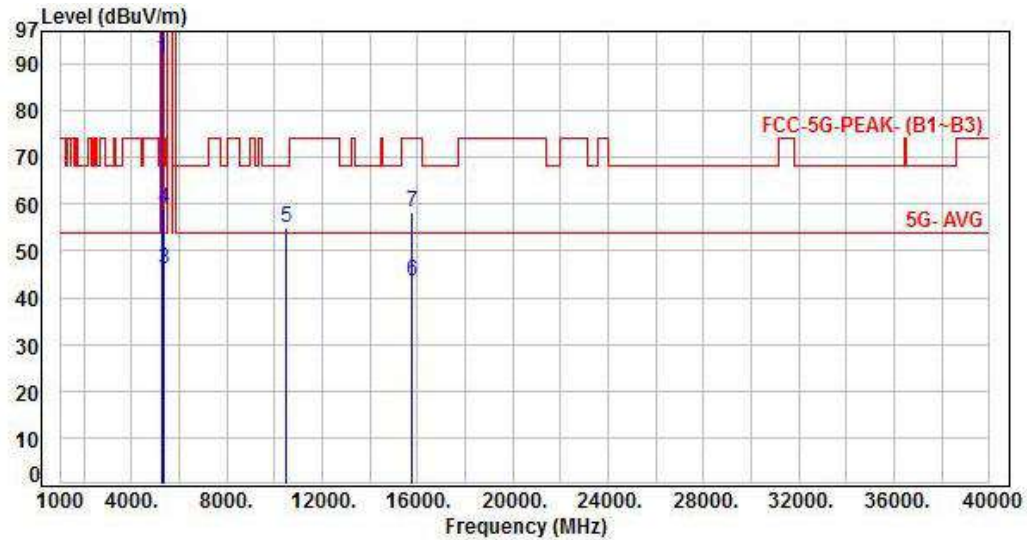
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 2, CH52		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5260.00	6.12	85.16	91.28	200.00	-108.72	Average	100	117	P
2	5260.00	6.12	94.62	100.74	200.00	-99.26	Peak	100	117	P
3	5350.00	6.27	39.78	46.05	54.00	-7.95	Average	100	117	P
4	5350.00	6.27	52.58	58.85	74.00	-15.15	Peak	100	117	P
5	10520.00	13.58	41.46	55.04	68.20	-13.16	Peak	100	227	P
6	15780.00	15.41	28.28	43.69	54.00	-10.31	Average	100	79	P
7	15780.00	15.41	42.69	58.10	74.00	-15.90	Peak	100	79	P

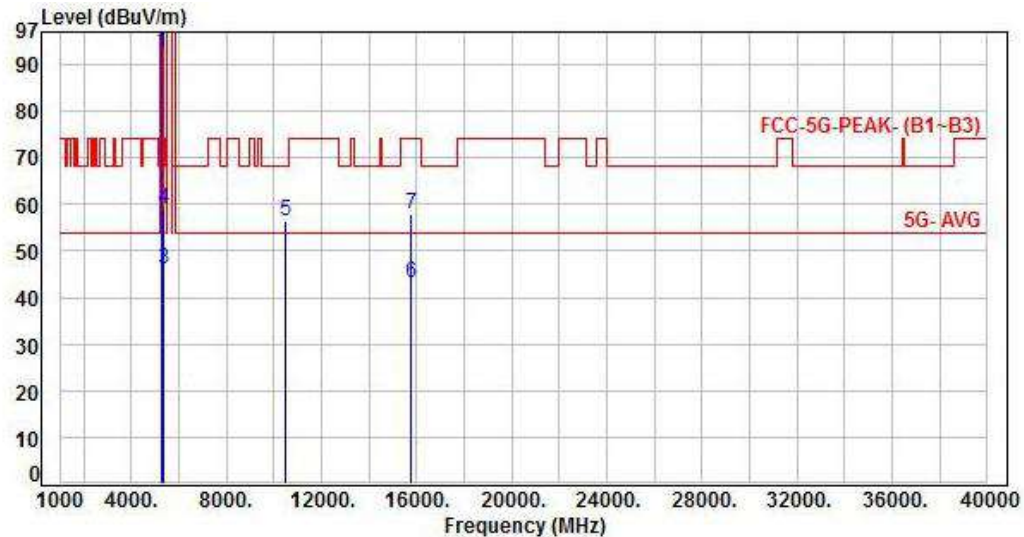
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 2, CH60		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5260.00	6.12	86.56	92.68	200.00	-107.32	Average	115	22	P
2	5260.00	6.12	96.06	102.18	200.00	-97.82	Peak	115	22	P
3	5350.00	6.27	39.86	46.13	54.00	-7.87	Average	115	22	P
4	5350.00	6.27	52.63	58.90	74.00	-15.10	Peak	115	22	P
5	10520.00	13.58	42.76	56.34	68.20	-11.86	Peak	100	133	P
6	15780.00	15.41	27.76	43.17	54.00	-10.83	Average	100	305	P
7	15780.00	15.41	42.35	57.76	74.00	-16.24	Peak	100	305	P

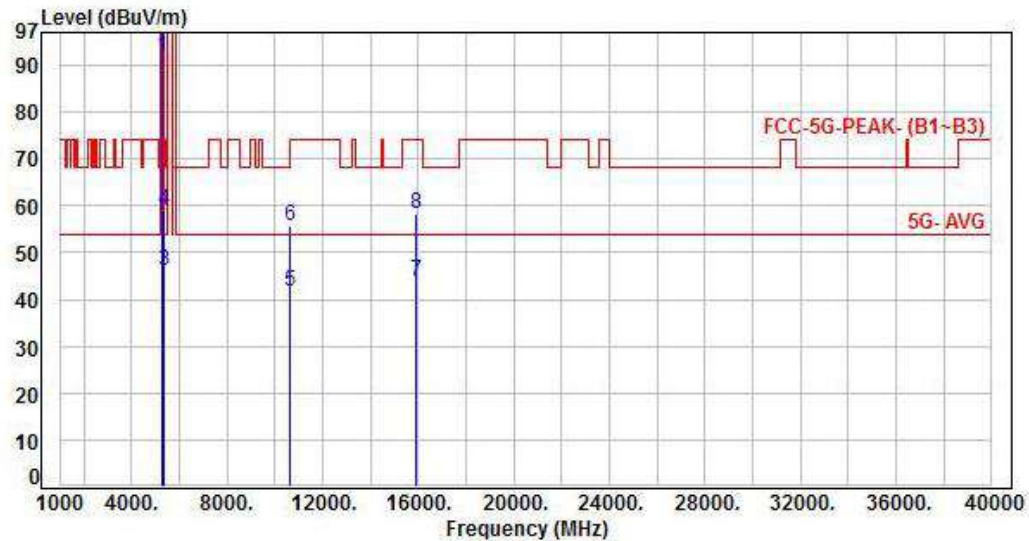
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 2, CH60		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5300.00	6.24	85.43	91.67	200.00	-108.33	Average	100	59	P
2	5300.00	6.24	94.90	101.14	200.00	-98.86	Peak	100	59	P
3	5350.00	6.27	39.77	46.04	54.00	-7.96	Average	100	59	P
4	5350.00	6.27	52.60	58.87	74.00	-15.13	Peak	100	59	P
5	10600.00	13.84	27.67	41.51	54.00	-12.49	Average	100	228	P
6	10600.00	13.84	41.92	55.76	74.00	-18.24	Peak	100	228	P
7	15900.00	15.50	28.30	43.80	54.00	-10.20	Average	100	78	P
8	15900.00	15.50	42.63	58.13	74.00	-15.87	Peak	100	78	P

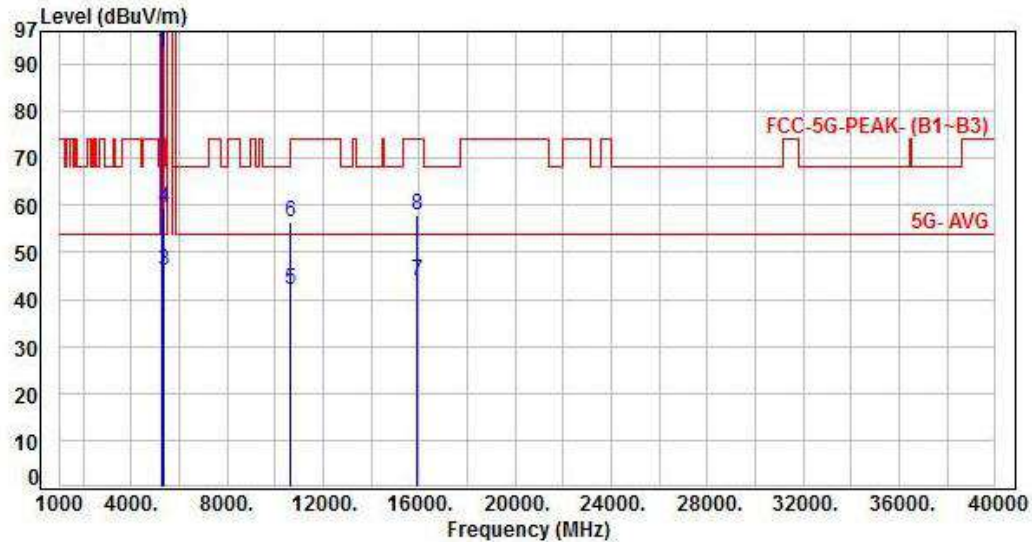
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 2, CH60		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5300.00	6.24	86.47	92.71	200.00	-107.29	Average	107	22	P
2	5300.00	6.24	95.95	102.19	200.00	-97.81	Peak	107	22	P
3	5350.00	6.27	39.89	46.16	54.00	-7.84	Average	107	22	P
4	5350.00	6.27	53.21	59.48	74.00	-14.52	Peak	107	22	P
5	10600.00	13.84	28.27	42.11	54.00	-11.89	Average	100	134	P
6	10600.00	13.84	42.49	56.33	74.00	-17.67	Peak	100	134	P
7	15900.00	15.50	28.30	43.80	54.00	-10.20	Average	100	75	P
8	15900.00	15.50	42.49	57.99	74.00	-16.01	Peak	100	75	P

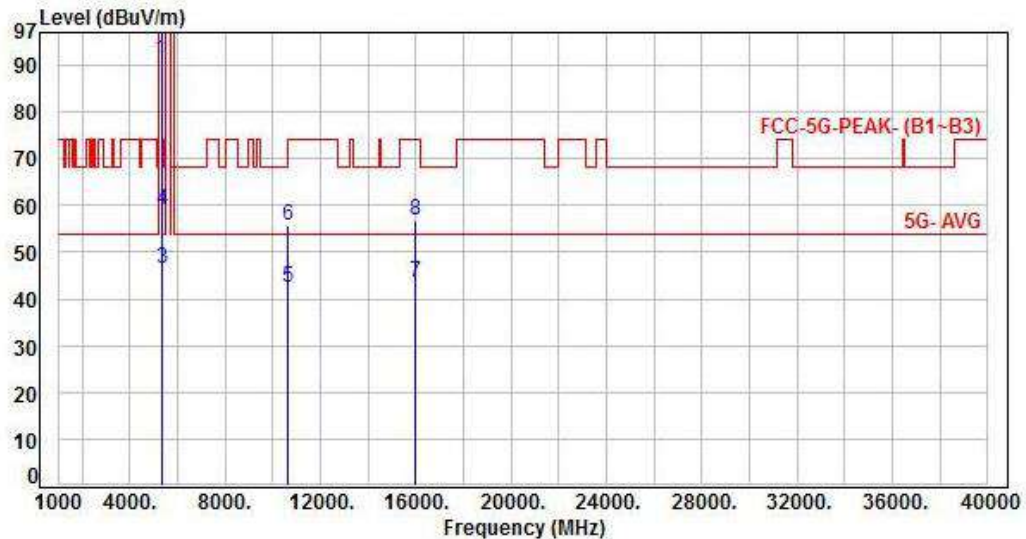
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 2, CH64		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5320.00	6.25	84.94	91.19	200.00	-108.81	Average	100	124	P
2	5320.00	6.25	94.36	100.61	200.00	-99.39	Peak	100	124	P
3	5350.00	6.27	40.10	46.37	54.00	-7.63	Average	100	124	P
4	5350.00	6.27	52.81	59.08	74.00	-14.92	Peak	100	124	P
5	10640.00	13.88	28.36	42.24	54.00	-11.76	Average	100	226	P
6	10640.00	13.88	41.68	55.56	74.00	-18.44	Peak	100	226	P
7	15960.00	15.18	28.35	43.53	54.00	-10.47	Average	100	80	P
8	15960.00	15.18	41.79	56.97	74.00	-17.03	Peak	100	80	P

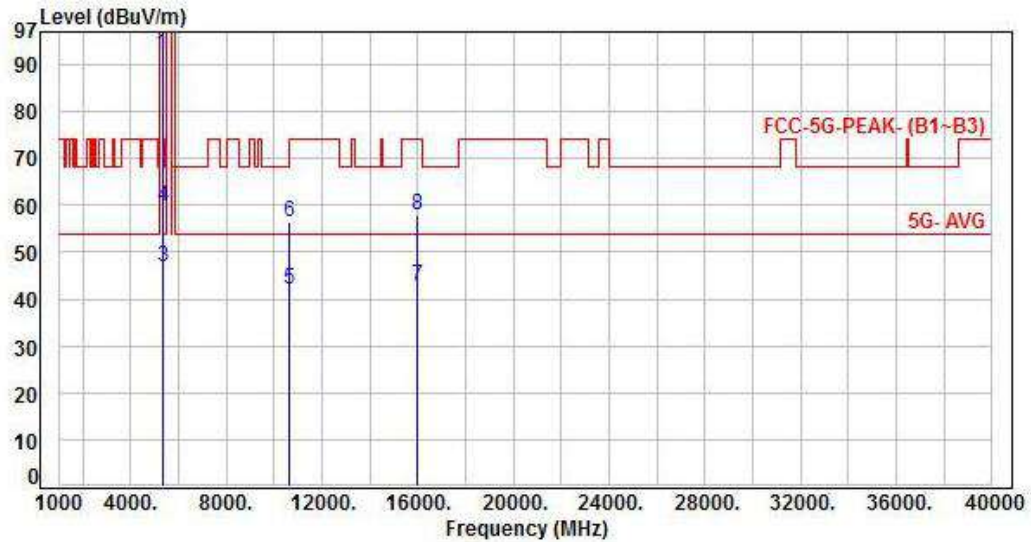
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 2, CH64		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5320.00	6.25	86.05	92.30	200.00	-107.70	Average	114	23	P
2	5320.00	6.25	95.46	101.71	200.00	-98.29	Peak	114	23	P
3	5350.00	6.27	40.40	46.67	54.00	-7.33	Average	114	23	P
4	5350.00	6.27	53.31	59.58	74.00	-14.42	Peak	114	23	P
5	10640.00	13.88	28.09	41.97	54.00	-12.03	Average	100	131	P
6	10640.00	13.88	42.50	56.38	74.00	-17.62	Peak	100	131	P
7	15960.00	15.18	27.62	42.80	54.00	-11.20	Average	100	300	P
8	15960.00	15.18	42.86	58.04	74.00	-15.96	Peak	100	300	P

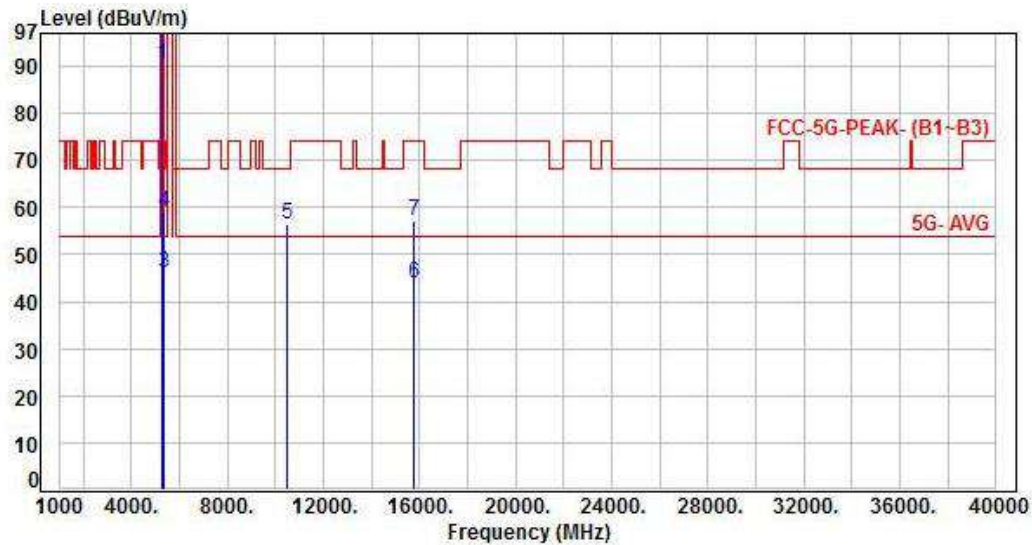
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 2, CH52		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5260.00	6.12	84.38	90.50	200.00	-109.50	Average	100	123	P
2	5260.00	6.12	94.76	100.88	200.00	-99.12	Peak	100	123	P
3	5350.00	6.27	39.73	46.00	54.00	-8.00	Average	100	123	P
4	5350.00	6.27	52.72	58.99	74.00	-15.01	Peak	100	123	P
5	10520.00	13.58	42.76	56.34	68.20	-11.86	Peak	100	229	P
6	15780.00	15.41	28.46	43.87	54.00	-10.13	Average	100	77	P
7	15780.00	15.41	41.90	57.31	74.00	-16.69	Peak	100	77	P

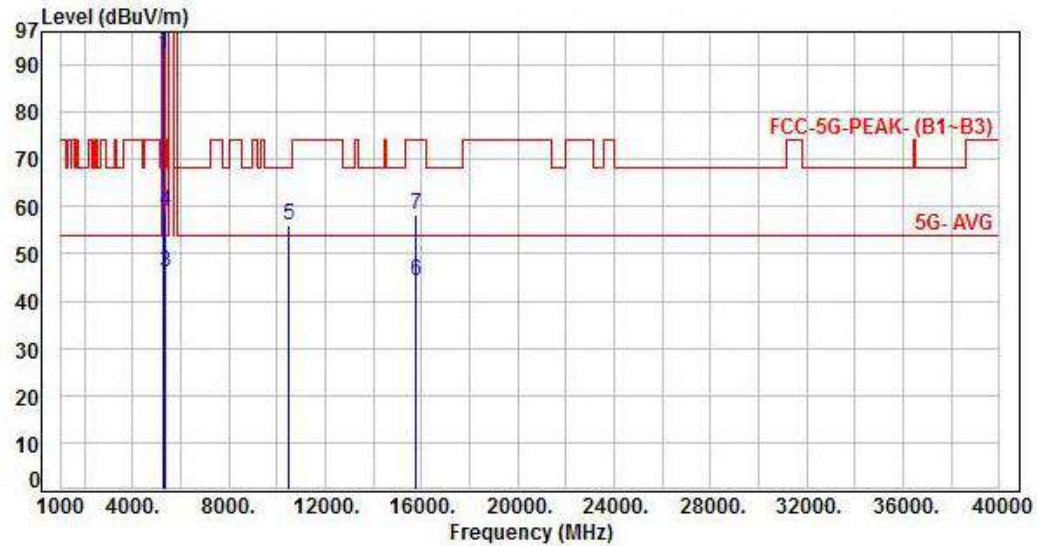
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 2, CH52		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5260.00	6.12	86.02	92.14	200.00	-107.86	Average	114	21	P
2	5260.00	6.12	96.43	102.55	200.00	-97.45	Peak	114	21	P
3	5350.00	6.27	39.79	46.06	54.00	-7.94	Average	114	21	P
4	5350.00	6.27	52.72	58.99	74.00	-15.01	Peak	114	21	P
5	10520.00	13.58	42.35	55.93	68.20	-12.27	Peak	100	136	P
6	15780.00	15.41	28.90	44.31	54.00	-9.69	Average	100	299	P
7	15780.00	15.41	42.76	58.17	74.00	-15.83	Peak	100	299	P

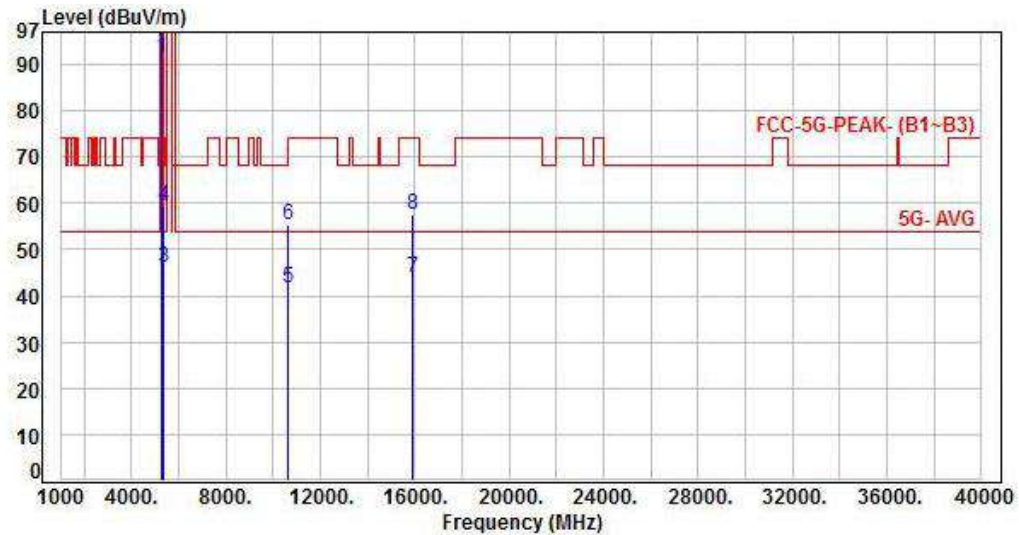
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 2, CH60		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5300.00	6.24	85.05	91.29	200.00	-108.71	Average	100	58	P
2	5300.00	6.24	95.41	101.65	200.00	-98.35	Peak	100	58	P
3	5350.00	6.27	39.94	46.21	54.00	-7.79	Average	100	58	P
4	5350.00	6.27	53.01	59.28	74.00	-14.72	Peak	100	58	P
5	10600.00	13.84	27.75	41.59	54.00	-12.41	Average	100	223	P
6	10600.00	13.84	41.47	55.31	74.00	-18.69	Peak	100	223	P
7	15900.00	15.50	28.36	43.86	54.00	-10.14	Average	100	76	P
8	15900.00	15.50	42.20	57.70	74.00	-16.30	Peak	100	76	P

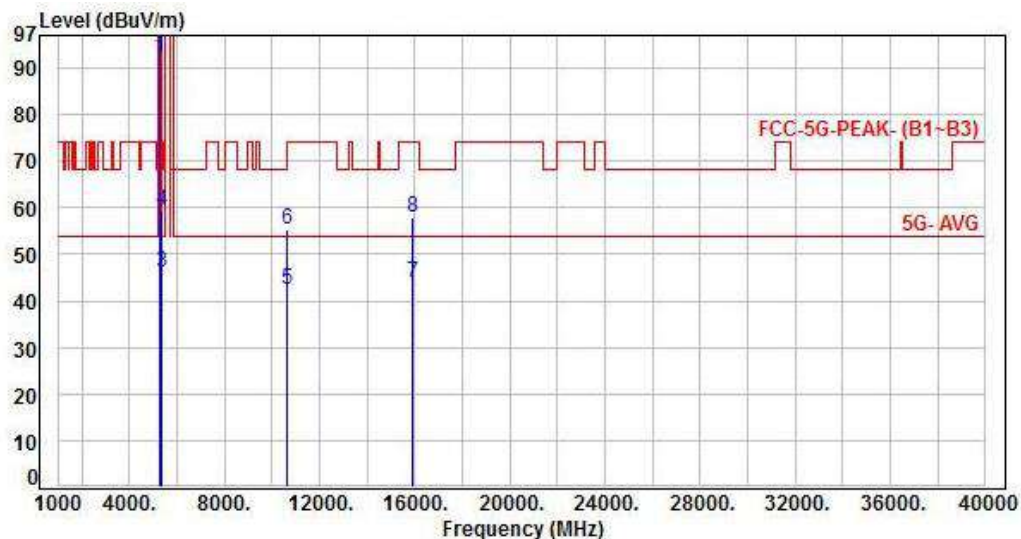
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 2, CH60		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5300.00	6.24	85.81	92.05	200.00	-107.95	Average	105	21	P
2	5300.00	6.24	95.61	101.85	200.00	-98.15	Peak	105	21	P
3	5350.00	6.27	39.87	46.14	54.00	-7.86	Average	105	21	P
4	5350.00	6.27	53.29	59.56	74.00	-14.44	Peak	105	21	P
5	10600.00	13.84	28.48	42.32	54.00	-11.68	Average	100	137	P
6	10600.00	13.84	41.57	55.41	74.00	-18.59	Peak	100	137	P
7	15900.00	15.50	28.49	43.99	54.00	-10.01	Average	100	305	P
8	15900.00	15.50	42.38	57.88	74.00	-16.12	Peak	100	305	P

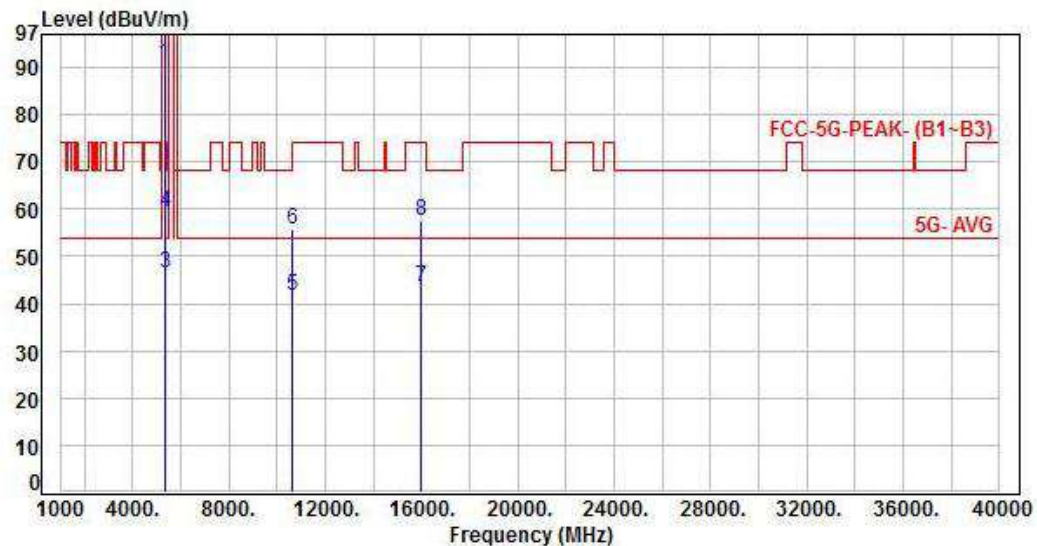
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 2, CH64		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5320.00	6.25	84.45	90.70	200.00	-109.30	Average	100	119	P
2	5320.00	6.25	94.26	100.51	200.00	-99.49	Peak	100	119	P
3	5350.00	6.27	40.09	46.36	54.00	-7.64	Average	100	119	P
4	5350.00	6.27	53.07	59.34	74.00	-14.66	Peak	100	119	P
5	10640.00	13.88	27.91	41.79	54.00	-12.21	Average	100	228	P
6	10640.00	13.88	41.94	55.82	74.00	-18.18	Peak	100	228	P
7	15960.00	15.18	28.17	43.35	54.00	-10.65	Average	100	75	P
8	15960.00	15.18	42.37	57.55	74.00	-16.45	Peak	100	75	P

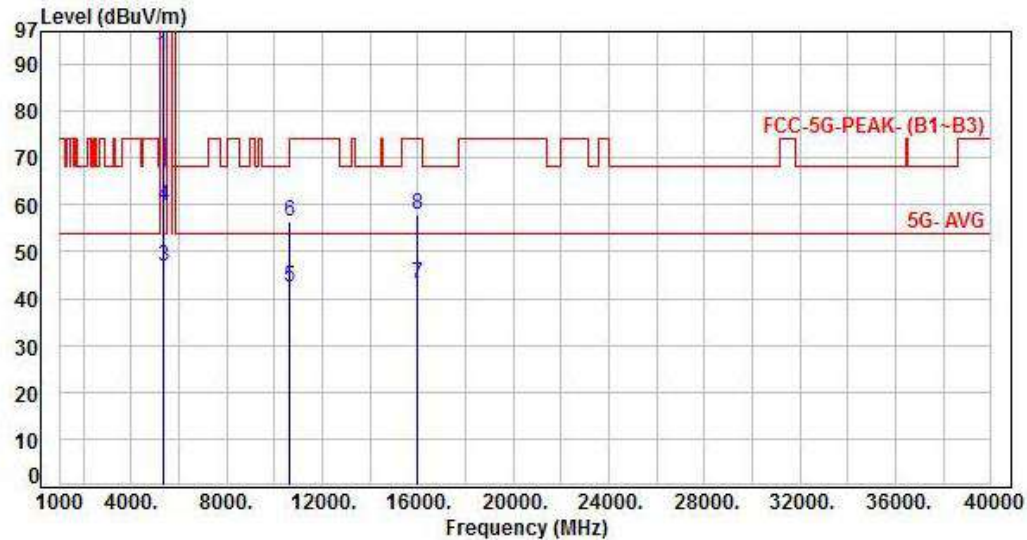
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 2, CH64		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5320.00	6.25	85.58	91.83	200.00	-108.17	Average	100	23	P
2	5320.00	6.25	95.71	101.96	200.00	-98.04	Peak	100	23	P
3	5350.00	6.27	40.49	46.76	54.00	-7.24	Average	100	23	P
4	5350.00	6.27	53.63	59.90	74.00	-14.10	Peak	100	23	P
5	10640.00	13.88	28.40	42.28	54.00	-11.72	Average	100	130	P
6	10640.00	13.88	42.37	56.25	74.00	-17.75	Peak	100	130	P
7	15960.00	15.18	27.84	43.02	54.00	-10.98	Average	100	304	P
8	15960.00	15.18	42.58	57.76	74.00	-16.24	Peak	100	304	P

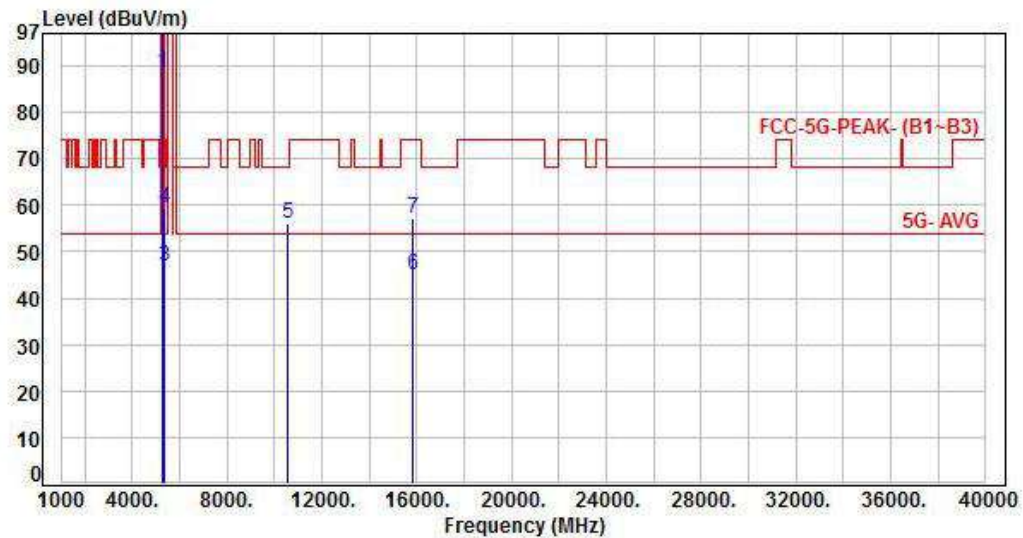
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 2, CH54		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5270.00	6.14	82.37	88.51	200.00	-111.49	Average	100	63	P
2	5270.00	6.14	92.03	98.17	200.00	-101.83	Peak	100	63	P
3	5350.00	6.27	40.52	46.79	54.00	-7.21	Average	100	63	P
4	5350.00	6.27	52.98	59.25	74.00	-14.75	Peak	100	63	P
5	10540.00	13.64	42.38	56.02	68.20	-12.18	Peak	100	225	P
6	15810.00	15.44	29.55	44.99	54.00	-9.01	Average	100	80	P
7	15810.00	15.44	41.65	57.09	74.00	-16.91	Peak	100	80	P

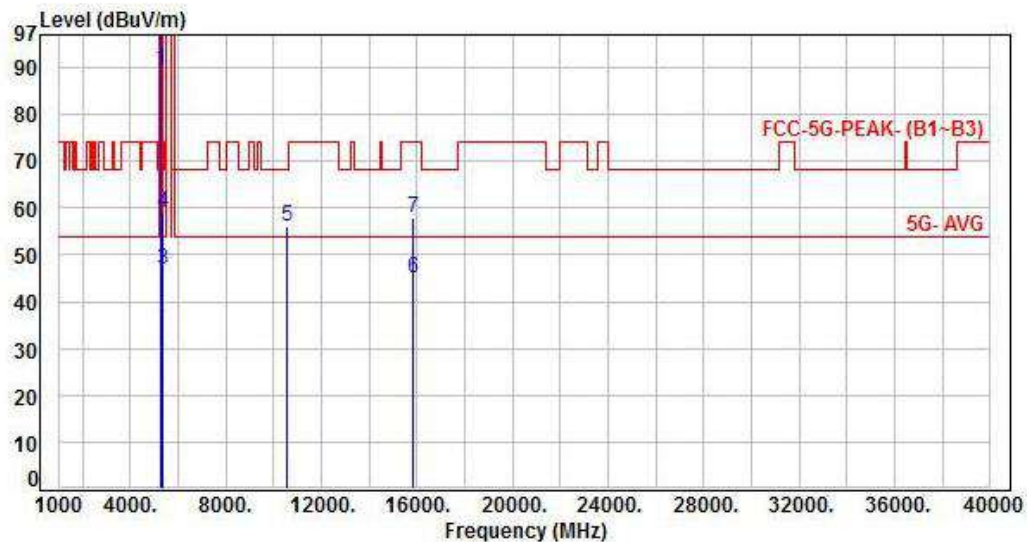
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 2, CH54		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5270.00	6.14	83.62	89.76	200.00	-110.24	Average	107	21	P
2	5270.00	6.14	93.11	99.25	200.00	-100.75	Peak	107	21	P
3	5350.00	6.27	40.47	46.74	54.00	-7.26	Average	107	21	P
4	5350.00	6.27	52.69	58.96	74.00	-15.04	Peak	107	21	P
5	10540.00	13.64	42.46	56.10	68.20	-12.10	Peak	100	134	P
6	15810.00	15.44	29.55	44.99	54.00	-9.01	Average	100	305	P
7	15810.00	15.44	42.32	57.76	74.00	-16.24	Peak	100	305	P

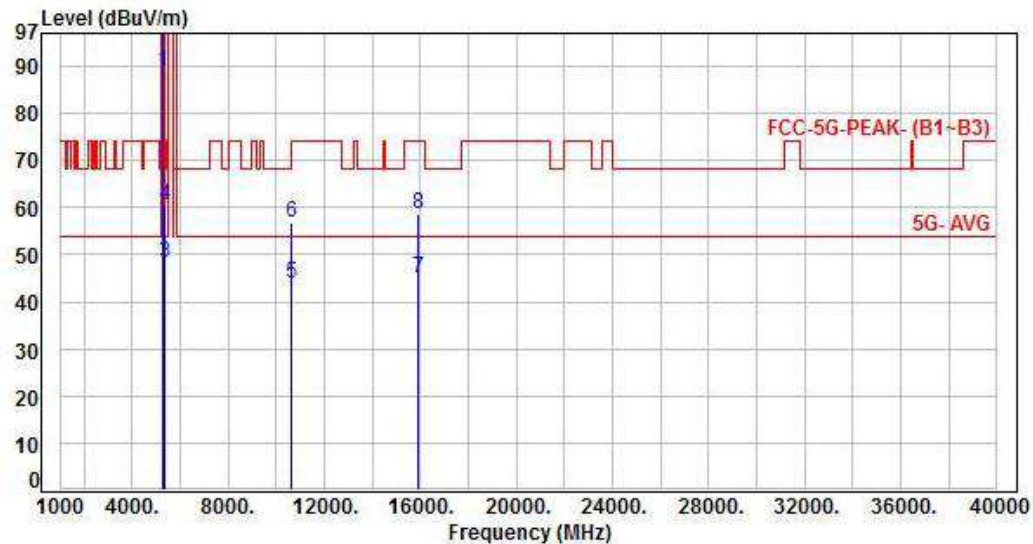
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, Band 2, CH62		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5310.00	6.24	82.53	88.77	200.00	-111.23	Average	100	64	P
2	5310.00	6.24	92.05	98.29	200.00	-101.71	Peak	100	64	P
3	5350.00	6.27	42.18	48.45	54.00	-5.55	Average	100	64	P
4	5350.00	6.27	54.30	60.57	74.00	-13.43	Peak	100	64	P
5	10620.00	13.86	29.91	43.77	54.00	-10.23	Average	100	226	P
6	10620.00	13.86	42.82	56.68	74.00	-17.32	Peak	100	226	P
7	15930.00	15.34	29.68	45.02	54.00	-8.98	Average	100	82	P
8	15930.00	15.34	43.18	58.52	74.00	-15.48	Peak	100	82	P

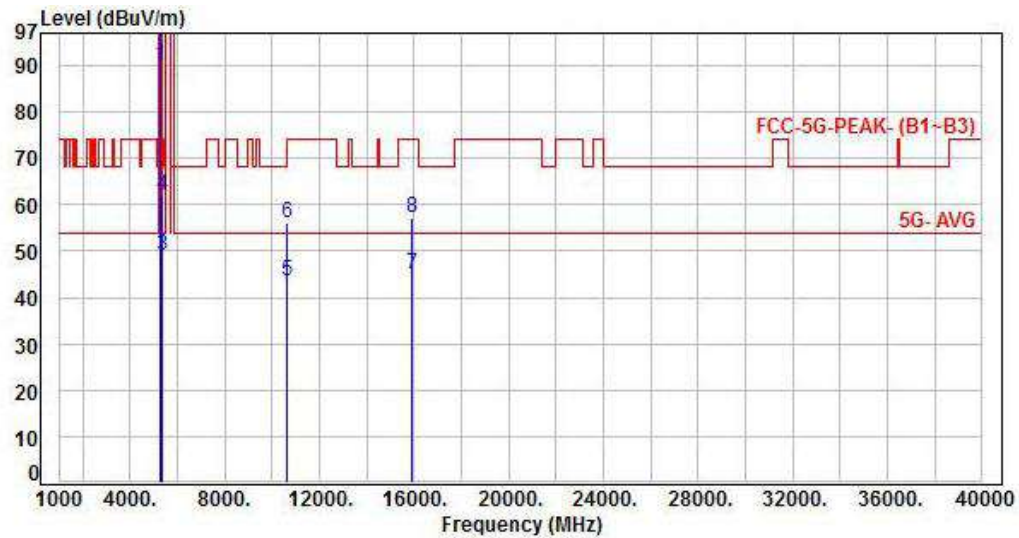
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, Band 2, CH62		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5310.00	6.24	83.64	89.88	200.00	-110.12	Average	100	23	P
2	5310.00	6.24	93.57	99.81	200.00	-100.19	Peak	100	23	P
3	5350.00	6.27	42.61	48.88	54.00	-5.12	Average	100	23	P
4	5350.00	6.27	55.64	61.91	74.00	-12.09	Peak	100	23	P
5	10620.00	13.86	29.60	43.46	54.00	-10.54	Average	100	132	P
6	10620.00	13.86	42.06	55.92	74.00	-18.08	Peak	100	132	P
7	15930.00	15.34	29.84	45.18	54.00	-8.82	Average	100	304	P
8	15930.00	15.34	41.76	57.10	74.00	-16.90	Peak	100	304	P

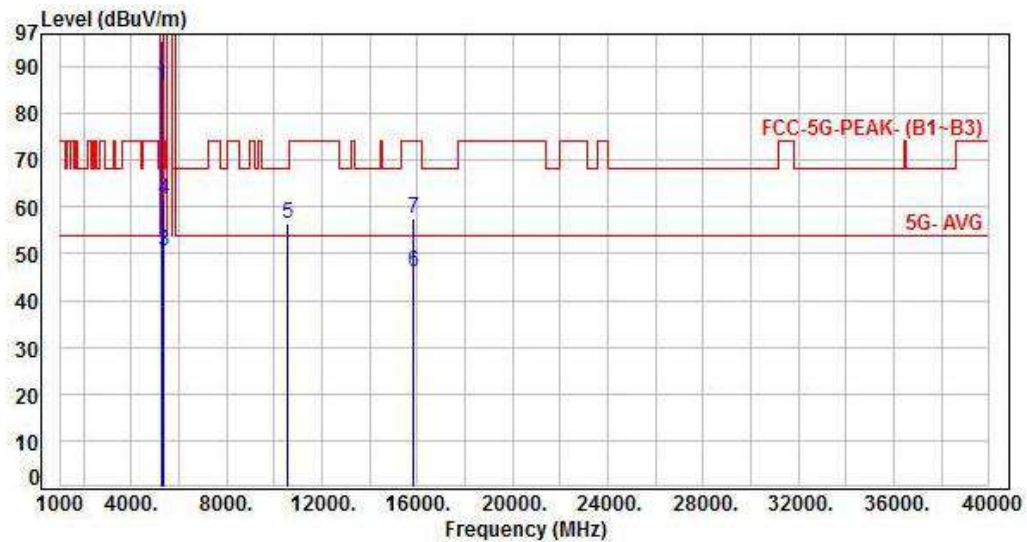
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, Band 2, CH58		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5290.00	6.20	79.62	85.82	200.00	-114.18	Average	100	62	P
2	5290.00	6.20	89.14	95.34	200.00	-104.66	Peak	100	62	P
3	5350.00	6.27	44.38	50.65	54.00	-3.35	Average	100	62	P
4	5350.00	6.27	55.19	61.46	74.00	-12.54	Peak	100	62	P
5	10580.00	13.76	42.58	56.34	68.20	-11.86	Peak	100	228	P
6	15870.00	15.49	30.72	46.21	54.00	-7.79	Average	100	78	P
7	15870.00	15.49	41.93	57.42	74.00	-16.58	Peak	100	78	P

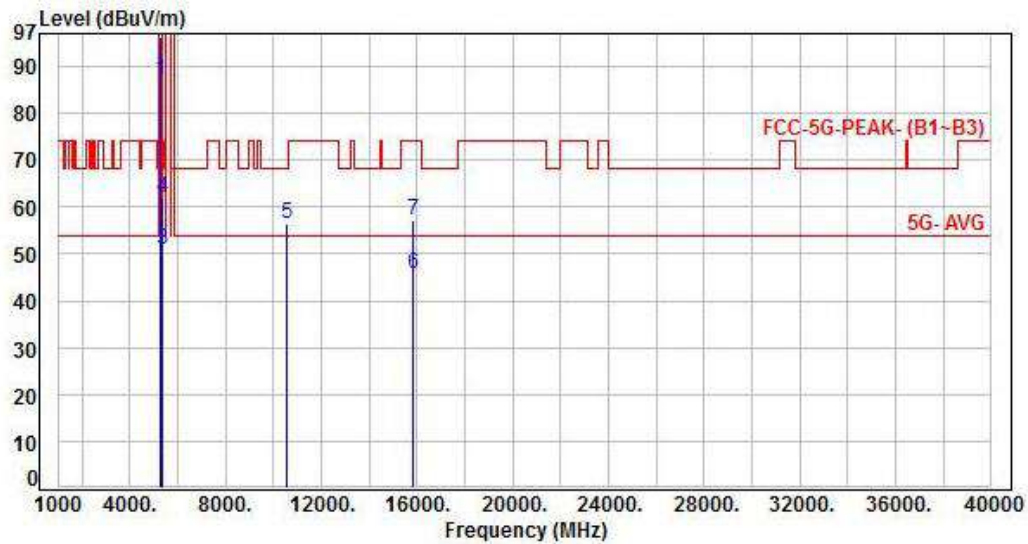
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, Band 2, CH58		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5290.00	6.20	80.84	87.04	200.00	-112.96	Average	110	21	P
2	5290.00	6.20	90.04	96.24	200.00	-103.76	Peak	110	21	P
3	5350.00	6.27	44.77	51.04	54.00	-2.96	Average	110	21	P
4	5350.00	6.27	55.60	61.87	74.00	-12.13	Peak	110	21	P
5	10580.00	13.76	42.61	56.37	68.20	-11.83	Peak	100	133	P
6	15870.00	15.49	30.27	45.76	54.00	-8.24	Average	100	301	P
7	15870.00	15.49	41.83	57.32	74.00	-16.68	Peak	100	301	P

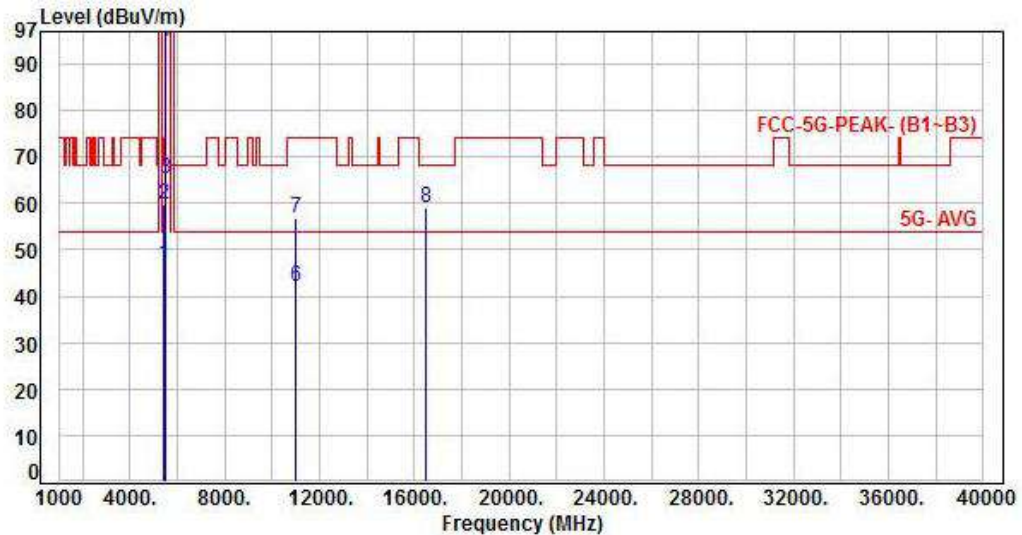
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 3, CH100		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.23	46.90	54.00	-7.10	Average	122	67	P
2	5460.00	6.67	53.23	59.90	74.00	-14.10	Peak	122	67	P
3	5470.00	6.68	58.56	65.24	68.20	-2.96	Peak	122	67	P
4	5500.00	6.70	88.04	94.74	200.00	-105.26	Average	122	67	P
5	5500.00	6.70	97.37	104.07	200.00	-95.93	Peak	122	67	P
6	11000.00	14.28	27.67	41.95	54.00	-12.05	Average	100	224	P
7	11000.00	14.28	42.54	56.82	74.00	-17.18	Peak	100	224	P
8	16500.00	16.53	42.50	59.03	68.20	-9.17	Peak	100	83	P

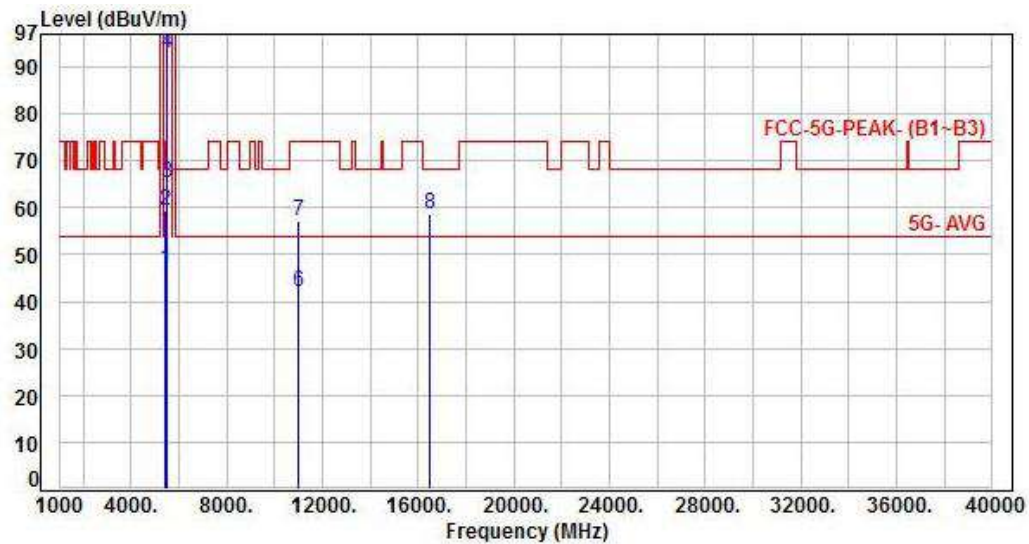
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 3, CH100		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.15	46.82	54.00	-7.18	Average	118	14	P
2	5460.00	6.67	52.83	59.50	74.00	-14.50	Peak	118	14	P
3	5470.00	6.68	58.53	65.21	68.20	-2.99	Peak	118	14	P
4	5500.00	6.70	86.12	92.82	200.00	-107.18	Average	118	14	P
5	5500.00	6.70	95.62	102.32	200.00	-97.68	Peak	118	14	P
6	11000.00	14.28	27.84	42.12	54.00	-11.88	Average	100	137	P
7	11000.00	14.28	42.95	57.23	74.00	-16.77	Peak	100	137	P
8	16500.00	16.53	42.14	58.67	68.20	-9.53	Peak	100	304	P

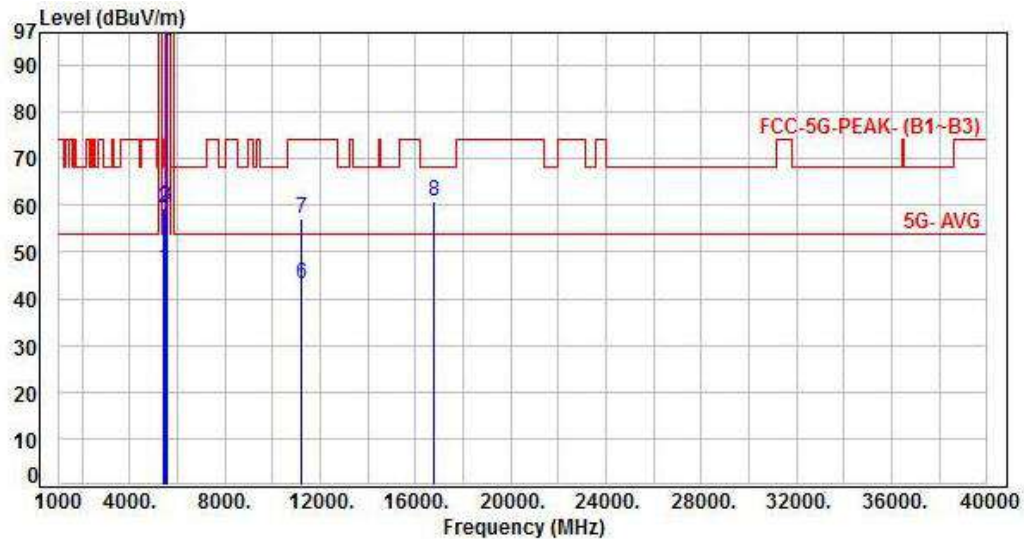
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 3, CH120		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	39.89	46.56	54.00	-7.44	Average	100	71	P
2	5460.00	6.67	52.64	59.31	74.00	-14.69	Peak	100	71	P
3	5470.00	6.68	52.89	59.57	68.20	-8.63	Peak	100	71	P
4	5600.00	6.58	88.52	95.10	200.00	-104.90	Average	100	71	P
5	5600.00	6.58	98.05	104.63	200.00	-95.37	Peak	100	71	P
6	11200.00	14.51	28.60	43.11	54.00	-10.89	Average	100	226	P
7	11200.00	14.51	42.64	57.15	74.00	-16.85	Peak	100	226	P
8	16800.00	18.55	42.38	60.93	68.20	-7.27	Peak	100	74	P

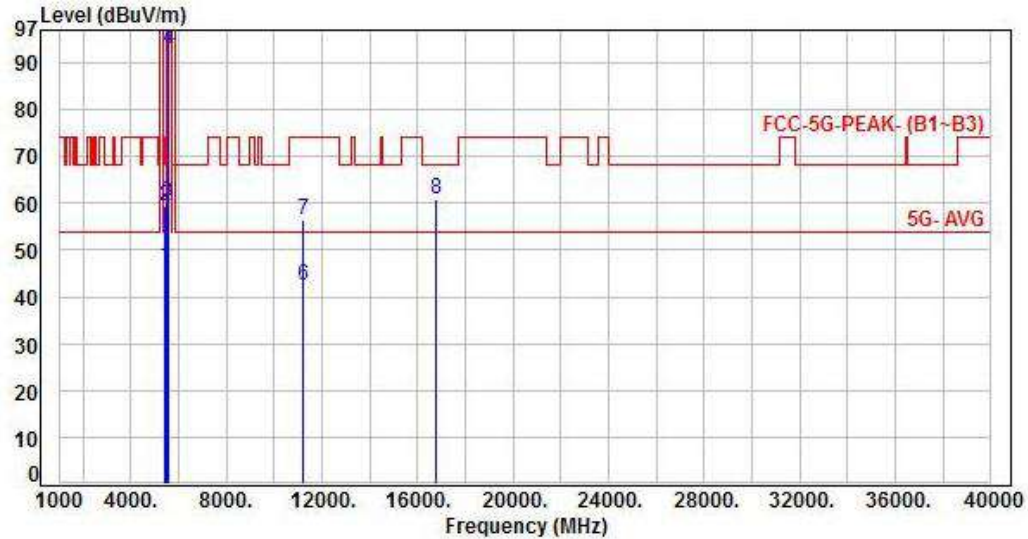
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 3, CH120		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	39.96	46.63	54.00	-7.37	Average	113	19	P
2	5460.00	6.67	52.81	59.48	74.00	-14.52	Peak	113	19	P
3	5470.00	6.68	53.44	60.12	68.20	-8.08	Peak	113	19	P
4	5600.00	6.58	86.26	92.84	200.00	-107.16	Average	113	19	P
5	5600.00	6.58	95.70	102.28	200.00	-97.72	Peak	113	19	P
6	11200.00	14.51	27.98	42.49	54.00	-11.51	Average	100	135	P
7	11200.00	14.51	41.76	56.27	74.00	-17.73	Peak	100	135	P
8	16800.00	18.55	42.19	60.74	68.20	-7.46	Peak	100	305	P

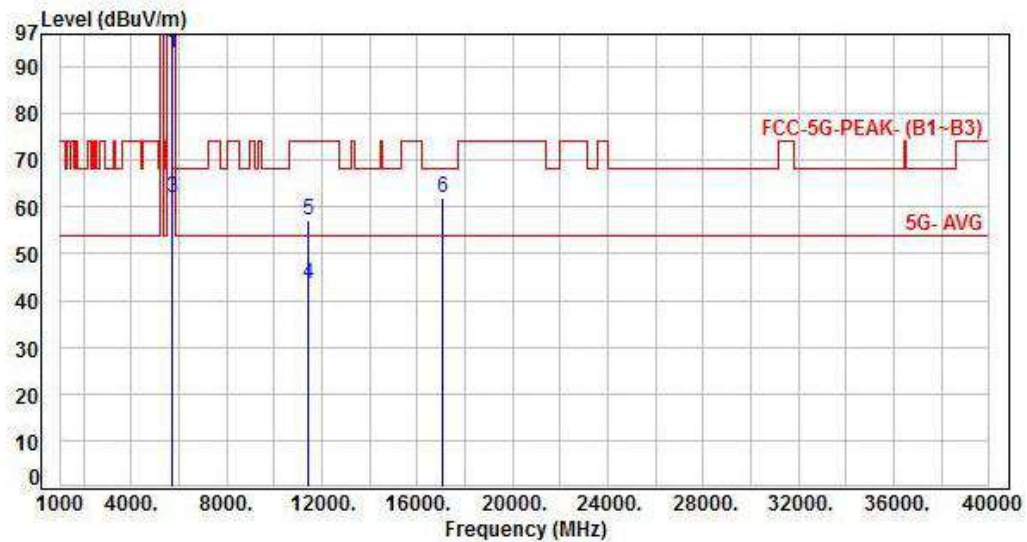
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, Band 3, CH140		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5700.00	6.56	86.22	92.78	200.00	-107.22	Average	102	72	P
2	5700.00	6.56	95.60	102.16	200.00	-97.84	Peak	102	72	P
3	5725.00	6.63	55.27	61.90	68.20	-6.30	Peak	102	72	P
4	11400.00	14.84	28.76	43.60	54.00	-10.40	Average	100	225	P
5	11400.00	14.84	42.37	57.21	74.00	-16.79	Peak	100	225	P
6	17100.00	20.11	41.94	62.05	68.20	-6.15	Peak	100	81	P

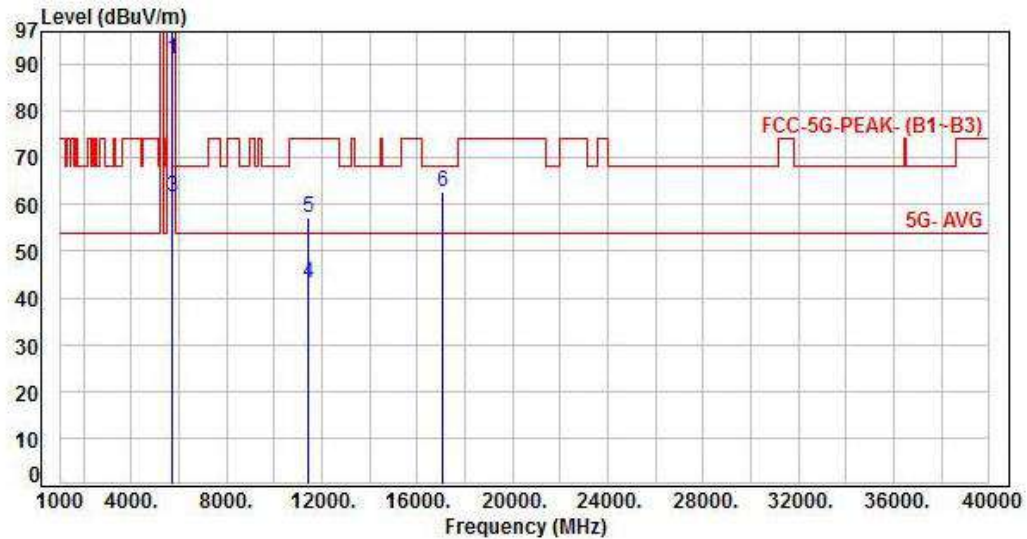
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, Band 3, CH140		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5700.00	6.56	84.46	91.02	200.00	-108.98	Average	126	20	P
2	5700.00	6.56	93.83	100.39	200.00	-99.61	Peak	126	20	P
3	5725.00	6.63	55.13	61.76	68.20	-6.44	Peak	126	20	P
4	11400.00	14.84	28.22	43.06	54.00	-10.94	Average	100	130	P
5	11400.00	14.84	42.36	57.20	74.00	-16.80	Peak	100	130	P
6	17100.00	20.11	42.63	62.74	68.20	-5.46	Peak	100	296	P

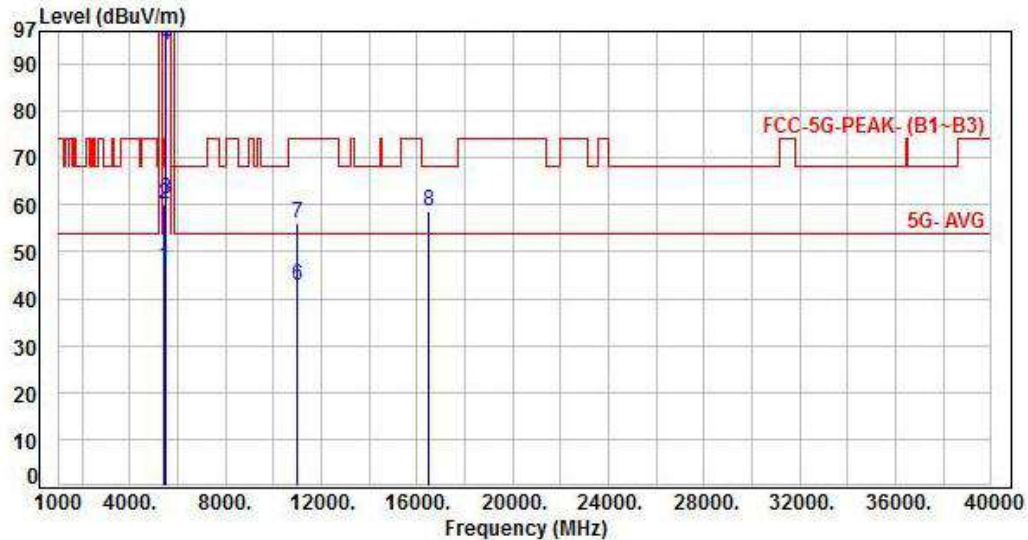
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 3, CH100		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.20	46.87	54.00	-7.13	Average	112	66	P
2	5460.00	6.67	53.35	60.02	74.00	-13.98	Peak	112	66	P
3	5470.00	6.68	54.59	61.27	68.20	-6.93	Peak	112	66	P
4	5500.00	6.70	87.50	94.20	200.00	-105.80	Average	112	66	P
5	5500.00	6.70	97.54	104.24	200.00	-95.76	Peak	112	66	P
6	11000.00	14.28	28.35	42.63	54.00	-11.37	Average	100	228	P
7	11000.00	14.28	41.72	56.00	74.00	-18.00	Peak	100	228	P
8	16500.00	16.53	42.19	58.72	68.20	-9.48	Peak	100	77	P

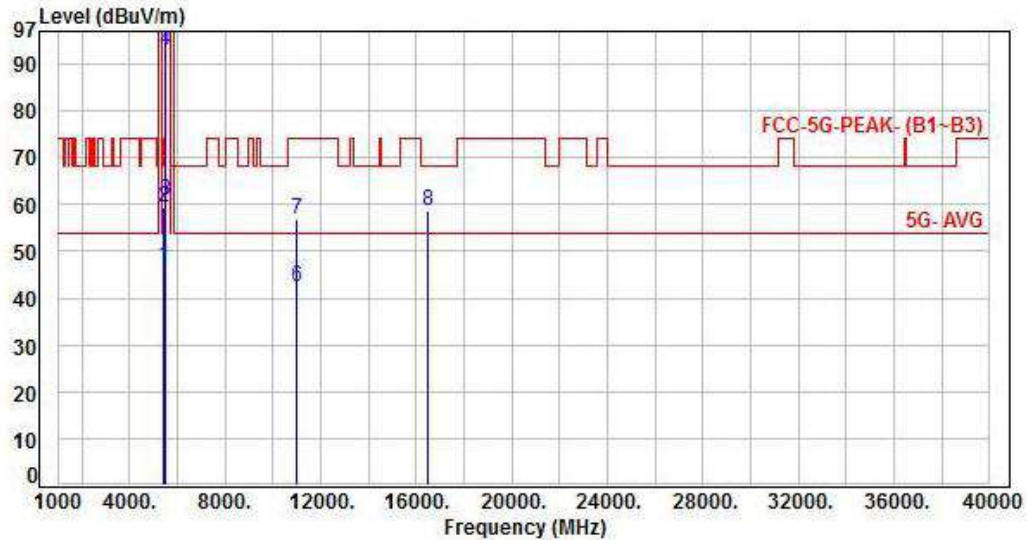
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 3, CH100		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.07	46.74	54.00	-7.26	Average	117	16	P
2	5460.00	6.67	52.58	59.25	74.00	-14.75	Peak	117	16	P
3	5470.00	6.68	54.19	60.87	68.20	-7.33	Peak	117	16	P
4	5500.00	6.70	86.23	92.93	200.00	-107.07	Average	117	16	P
5	5500.00	6.70	96.21	102.91	200.00	-97.09	Peak	117	16	P
6	11000.00	14.28	28.07	42.35	54.00	-11.65	Average	100	132	P
7	11000.00	14.28	42.40	56.68	74.00	-17.32	Peak	100	132	P
8	16500.00	16.53	41.93	58.46	68.20	-9.74	Peak	100	300	P

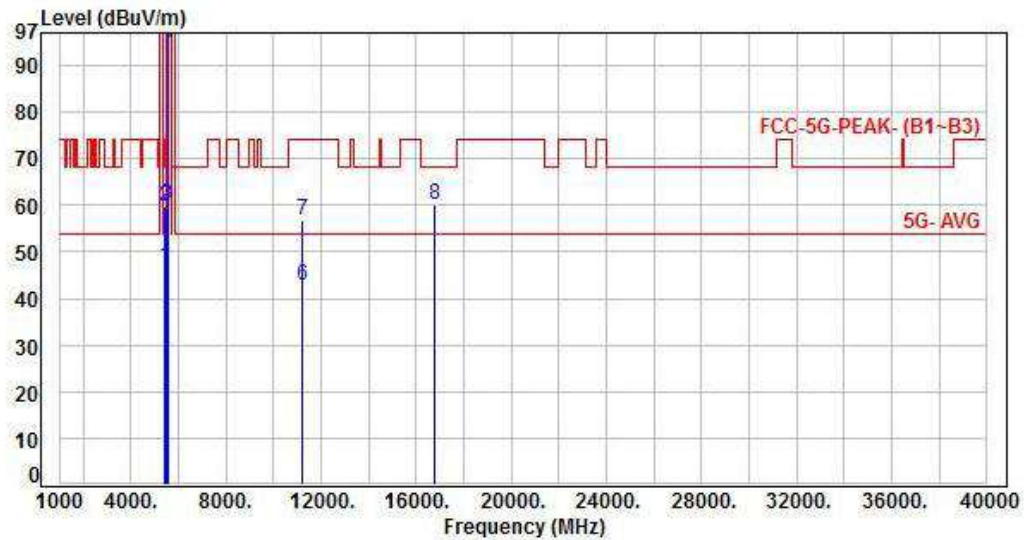
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 3, CH120		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.06	46.73	54.00	-7.27	Average	100	72	P
2	5460.00	6.67	52.96	59.63	74.00	-14.37	Peak	100	72	P
3	5470.00	6.68	53.35	60.03	68.20	-8.17	Peak	100	72	P
4	5600.00	6.58	88.05	94.63	200.00	-105.37	Average	100	72	P
5	5600.00	6.58	98.08	104.66	200.00	-95.34	Peak	100	72	P
6	11200.00	14.51	28.43	42.94	54.00	-11.06	Average	100	229	P
7	11200.00	14.51	42.31	56.82	74.00	-17.18	Peak	100	229	P
8	16800.00	18.55	41.58	60.13	68.20	-8.07	Peak	100	76	P

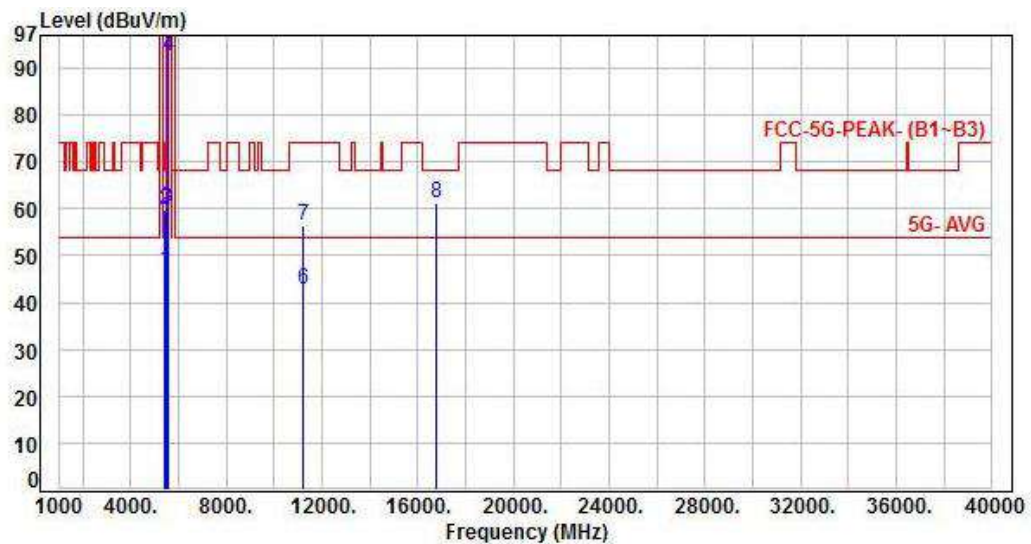
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 3, CH120		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	6.67	40.17	46.84	54.00	-7.16	Average	104	18	P
2	5460.00	6.67	53.03	59.70	74.00	-14.30	Peak	104	18	P
3	5470.00	6.68	53.53	60.21	68.20	-7.99	Peak	104	18	P
4	5600.00	6.58	85.94	92.52	200.00	-107.48	Average	104	18	P
5	5600.00	6.58	95.85	102.43	200.00	-97.57	Peak	104	18	P
6	11200.00	14.51	28.16	42.67	54.00	-11.33	Average	100	131	P
7	11200.00	14.51	41.84	56.35	74.00	-17.65	Peak	100	131	P
8	16800.00	18.55	42.55	61.10	68.20	-7.10	Peak	100	310	P

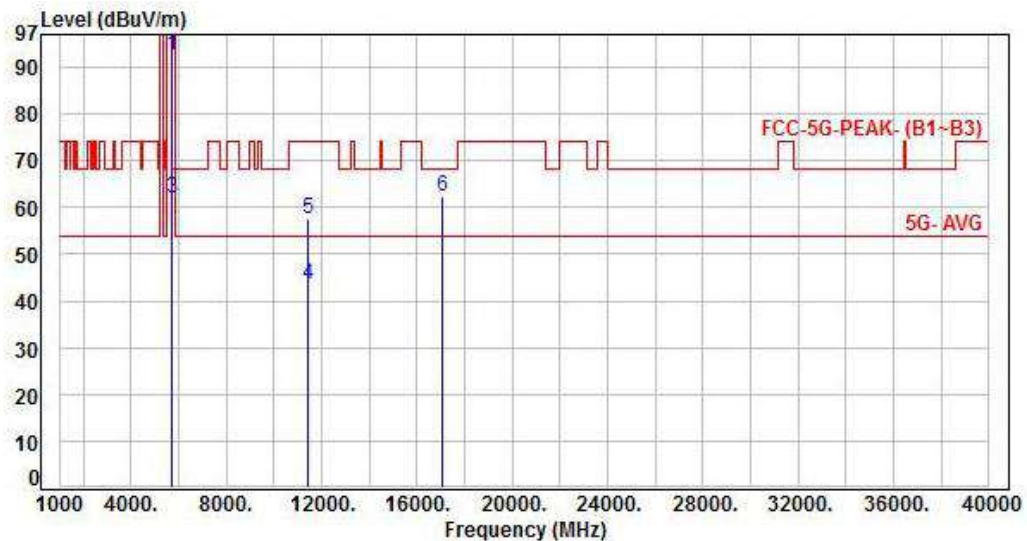
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, Band 3, CH140		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5700.00	6.56	85.89	92.45	200.00	-107.55	Average	104	72	P
2	5700.00	6.56	95.57	102.13	200.00	-97.87	Peak	104	72	P
3	5725.00	6.63	55.22	61.85	68.20	-6.35	Peak	104	72	P
4	11400.00	14.84	28.59	43.43	54.00	-10.57	Average	100	228	P
5	11400.00	14.84	42.82	57.66	74.00	-16.34	Peak	100	228	P
6	17100.00	20.11	42.38	62.49	68.20	-5.71	Peak	100	79	P

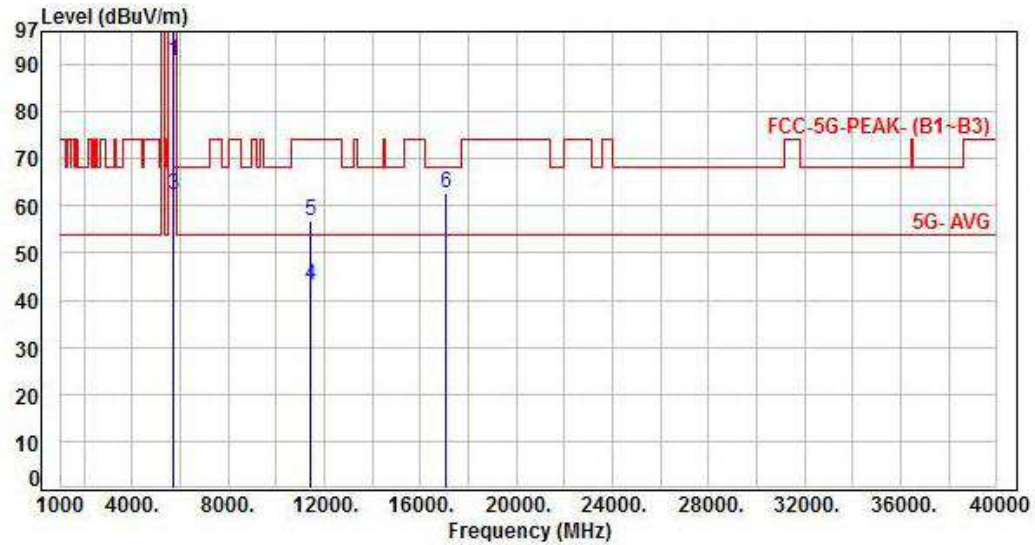
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	DC 12V From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, Band 3, CH140		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5700.00	6.56	84.00	90.56	200.00	-109.44	Average	120	22	P
2	5700.00	6.56	94.33	100.89	200.00	-99.11	Peak	120	22	P
3	5725.00	6.63	55.57	62.20	68.20	-6.00	Peak	120	22	P
4	11400.00	14.84	28.46	43.30	54.00	-10.70	Average	100	133	P
5	11400.00	14.84	41.83	56.67	74.00	-17.33	Peak	100	133	P
6	17100.00	20.11	42.73	62.84	68.20	-5.36	Peak	100	301	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor