



FCC RADIO TEST REPORT

Applicant	: LITE-ON Technology Corp.
Address	: Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City, 23585 Taiwan
Equipment	: Wi-Fi HaLow 802.11ah Module
Model No.	: WSG300NRC
Trade Name	: LITEON
FCC ID.	: PPQ-WSG300NRC

I HEREBY CERTIFY THAT :

The sample was received on Sep. 07, 2021 and the testing was completed on Sep. 27, 2021 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issue Date	Description
21090031-TRFCC01	Sep. 29, 2021	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Output Power	PASS
15.247(e)	. Power Spectral Density	PASS
2.1091	. Radio Frequency Exposure	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 under Test

Operation Frequency Range	OFDM(1M): 903.5MHz~926.5MHz OFDM(2M): 905MHz~925MHz OFDM(4M): 910MHz~922MHz
Center Frequency Range	OFDM(1M): 903.5MHz~926.5MHz OFDM(2M): 905MHz~925MHz OFDM(4M): 910MHz~922MHz
Modulation Type	OFDM(1M) OFDM(2M) OFDM(4M)
Data Rate	OFDM(1M): MCS0 – MCS7, 10 OFDM(2M): MCS0 – MCS7 OFDM(4M): MCS0 – MCS7
Antenna Type	*Antenna 1:Dipole Antenna *Antenna 2:PIFA Antenna Antenna 3:PIFA Antenna
Antenna Gain	*Antenna 1: 3.04dBi *Antenna 2: 3.03 dBi Antenna 3: -2.9 dBi

Note:

- 1.Antenna remarked * are selected to perform test.
- 2.For more details, please refer to the User's manual of the EUT.

2.2 Carrier Frequency of Channels

For OFDM(1M)

Channel	Frequency (MHz)
*01	903.5
*02	915.5
*03	926.5

For OFDM(2M)

Channel	Frequency (MHz)
*01	905
*02	917
*03	925

For OFDM(4M)

Channel	Frequency (MHz)
*01	910.0
*02	918.0
*03	922.0

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, "Newracom DUT2DUT Test Program ver.V1.8.5" under Windows OS 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	OFDM (1Mbps)
2	OFDM (2Mbps)
3	OFDM (4Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	OFDM (1Mbps)
2	OFDM (2Mbps)
3	OFDM (4Mbps)
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	OFDM (1Mbps)
2	OFDM (2Mbps)
3	OFDM (4Mbps)
caused "Test Mode 1~3" generated the worst case, it was reported as the final data.	

Modulation Type	TX CONFIGURATION
OFDM (1Mbps)	1TX
OFDM (2Mbps)	1TX
OFDM (4Mbps)	1TX



2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Micro USB	kolin	KEX-DLCP07	1m / NS	N/A
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Micro USB	kolin	KEX-DLCP07	1m / NS	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
Micro USB	kolin	KEX-DLCP07	1m / 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 25,000MHz	
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	2021/9/24~2021/09/27	26~27°C / 45~46%	Nick Guan
Radiated Emissions	3M02-NK	2021/09/06~2021/09/24	23~25°C / 44~47%	Nick Guan
AC Power Line Conducted Emission	CON01-NK	2021/09/27	25°C / 53%	Dian Chen

2.6 Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.63dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.6dB
Radiated Spurious Emission(1GHz~25GHz)	±6.6dB
Conducted Spurious Emission	±1.8dB
6dB Bandwidth	±4.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±1.2%
Power Spectral Density	±1.8dB
Duty Cycle	±1.2%



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	369	2021/04/26	2022/04/25
Active Loop Antenna	EMCO	6507	40855	2021/06/10	2022/06/09
Horn Antenna	EMCO	3115	31601	2020/10/16	2021/10/15
Horn Antenna	EMCO	3116	31970	2021/03/29	2022/03/28
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2021/06/30	2022/06/29
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2021/07/14	2022/07/13
Preamplifier	EM Electronics corp.	EM330	60658	2020/10/20	2021/10/19
Preamplifier	EM Electronics corp.	EM330	60660	2021/03/18	2022/03/17
Preamplifier	Agilent	8449B	3008A01954	2021/03/22	2022/03/21
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2020/11/06	2021/11/05
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2021/04/12	2022/04/11
Cable-0.5m(1G-18G)	EMEC	EM104-SMSM-0.5M	CCE1354	2021/05/06	2022/05/05
Cable-3m(1G-18G)	EMEC	EM104-SMSM-3M	CCE1355	2021/05/06	2022/05/05
Cable-8m(1G-18G)	EMEC	EM104-SMSM-8M	CCE1356	2021/05/06	2022/05/05
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2021/04/03	2022/04/02
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2021/04/09	2022/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50314	2021/04/08	2022/04/07
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
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	FSV 40-N	102151	2021/07/14	2022/07/13
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2021/04/19	2022/04/18
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2020/12/25	2021/12/24
Attenuator	KEYSIGHT	8491B	MY39250703	2021/04/09	2022/04/08
TEMP & HUMI CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2021/08/27	2022/08/26
Power Meter	Anritsu	ML2495A	1224005	2021/04/14	2022/04/13
Power Sensor	Anritsu	MA2411B	1207295	2021/04/14	2022/04/13



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	101402	2021/03/12	2022/03/11
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2021/06/02	2022/06/01
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2021/03/10	2022/03/09
Cable-6m(9k~300M)	NA	CFD300-NL	NA	2021/03/15	2022/03/14
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 15.247 (b), 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	*Antenna 1:Dipole Antenna *Antenna 2:PIFA Antenna Antenna 3:PIFA Antenna
Antenna Gain	*Antenna 1: 3.04dBi *Antenna 2: 3.03 dBi Antenna 3: -2.9 dBi

Note: Antenna remarked * are selected to perform test.



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 C63.4-2014. 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

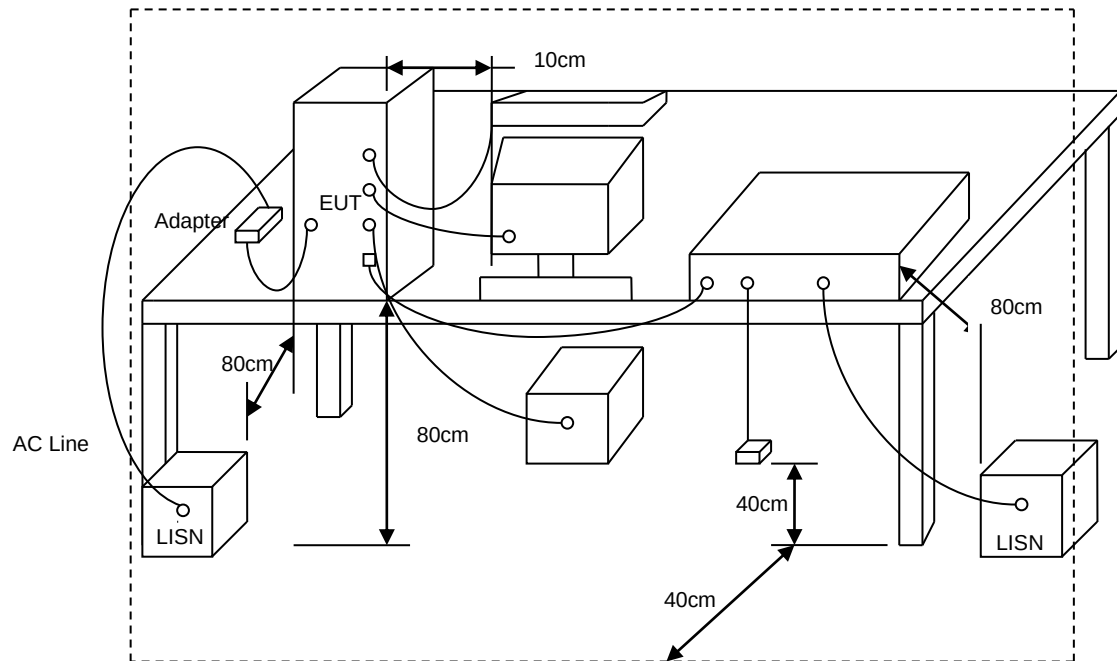
*Decreases with the logarithm of the frequency.

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

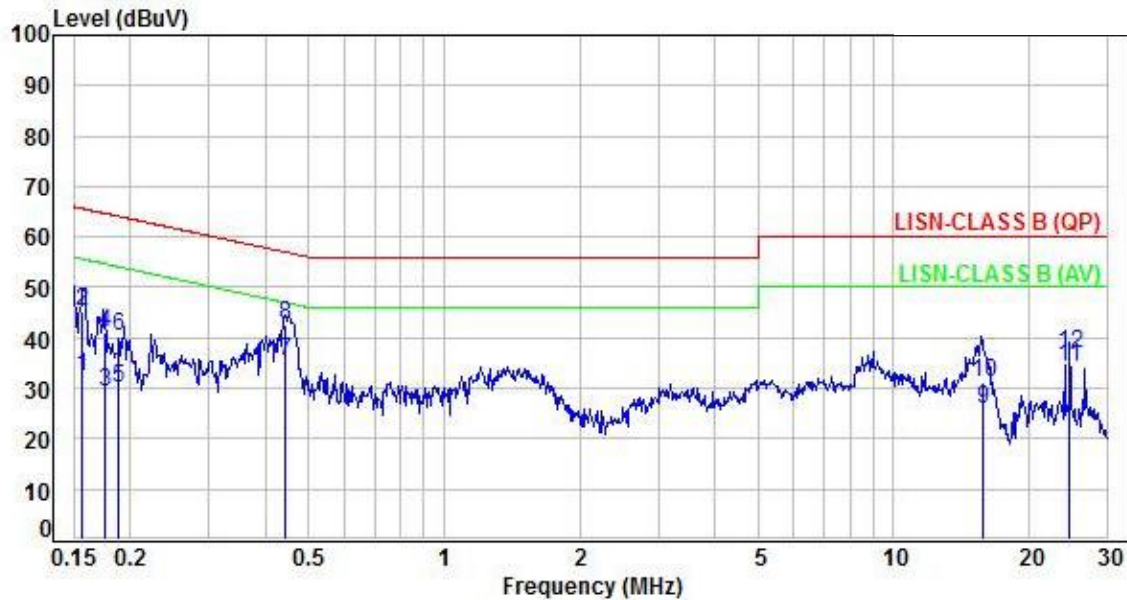




5.4 Test Result and Data

Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1, CH01		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.97	22.43	32.40	55.64	-23.24	Average	P
2	0.16	9.97	35.37	45.34	65.64	-20.30	QP	P
3	0.18	9.97	19.19	29.16	54.66	-25.50	Average	P
4	0.18	9.97	31.19	41.16	64.66	-23.50	QP	P
5	0.19	9.97	19.91	29.88	54.08	-24.20	Average	P
6	0.19	9.97	30.15	40.12	64.08	-23.96	QP	P
7	0.44	9.98	25.52	35.50	47.02	-11.52	Average	P
8	0.44	9.98	32.77	42.75	57.02	-14.27	QP	P
9	15.89	10.61	15.23	25.84	50.00	-24.16	Average	P
10	15.89	10.61	20.58	31.19	60.00	-28.81	QP	P
11	24.58	10.87	23.43	34.30	50.00	-15.70	Average	P
12	24.58	10.87	26.09	36.96	60.00	-23.04	QP	P

Note: Level=Reading+Factor

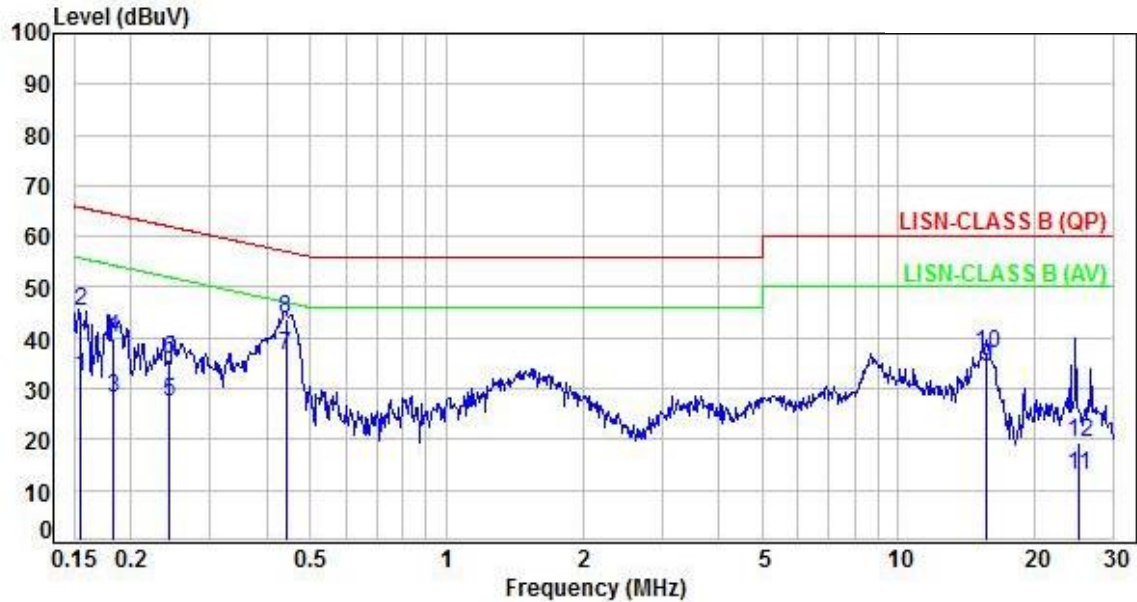
Margin=Level-Limit

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



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.97	22.31	32.28	55.74	-23.46	Average	P
2	0.15	9.97	35.19	45.16	65.74	-20.58	QP	P
3	0.18	9.97	18.35	28.32	54.31	-25.99	Average	P
4	0.18	9.97	29.85	39.82	64.31	-24.49	QP	P
5	0.24	9.97	17.26	27.23	52.00	-24.77	Average	P
6	0.24	9.97	25.82	35.79	62.00	-26.21	QP	P
7	0.44	9.98	26.37	36.35	47.05	-10.70	Average	P
8	0.44	9.98	33.72	43.70	57.05	-13.35	QP	P
9	15.72	10.60	23.44	34.04	50.00	-15.96	Average	P
10	15.72	10.60	26.30	36.90	60.00	-23.10	QP	P
11	25.06	10.89	2.05	12.94	50.00	-37.06	Average	P
12	25.06	10.89	8.52	19.41	60.00	-40.59	QP	P

Note: Level=Reading+Factor

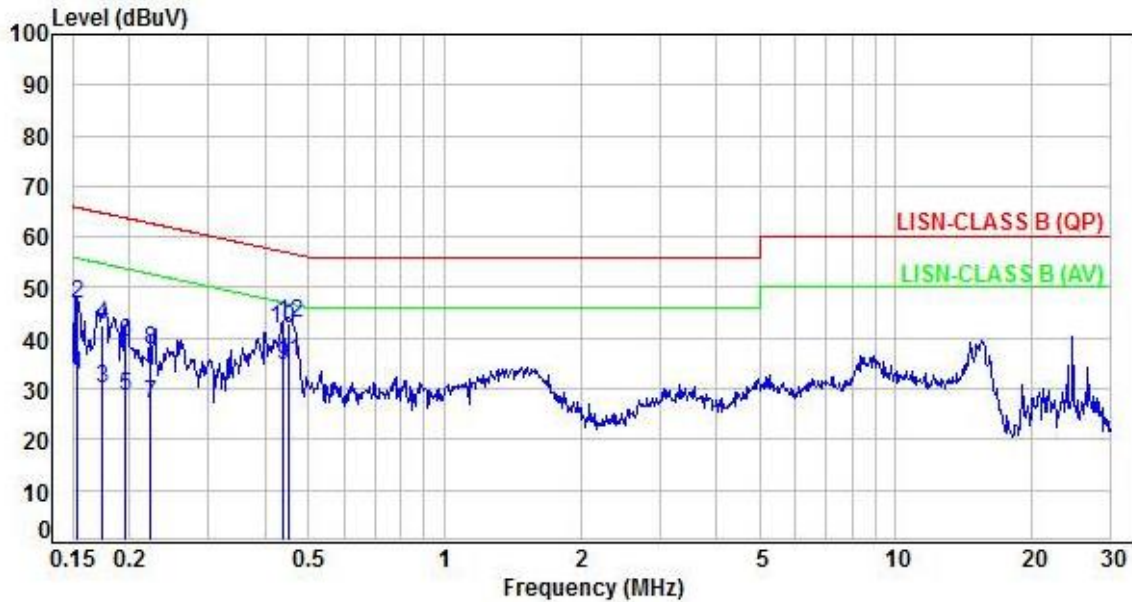
Margin=Level-Limit

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



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.15	9.97	22.91	32.88	55.83	-22.95	Average	P
2	0.15	9.97	36.82	46.79	65.83	-19.04	QP	P
3	0.17	9.97	20.20	30.17	54.79	-24.62	Average	P
4	0.17	9.97	32.79	42.76	64.79	-22.03	QP	P
5	0.20	9.97	18.55	28.52	53.75	-25.23	Average	P
6	0.20	9.97	29.23	39.20	63.75	-24.55	QP	P
7	0.22	9.97	16.91	26.88	52.73	-25.85	Average	P
8	0.22	9.97	27.60	37.57	62.73	-25.16	QP	P
9	0.44	9.98	24.78	34.76	47.12	-12.36	Average	P
10	0.44	9.98	31.82	41.80	57.12	-15.32	QP	P
11	0.45	9.98	25.42	35.40	46.86	-11.46	Average	P
12	0.45	9.98	32.85	42.83	56.86	-14.03	QP	P

Note: Level=Reading+Factor

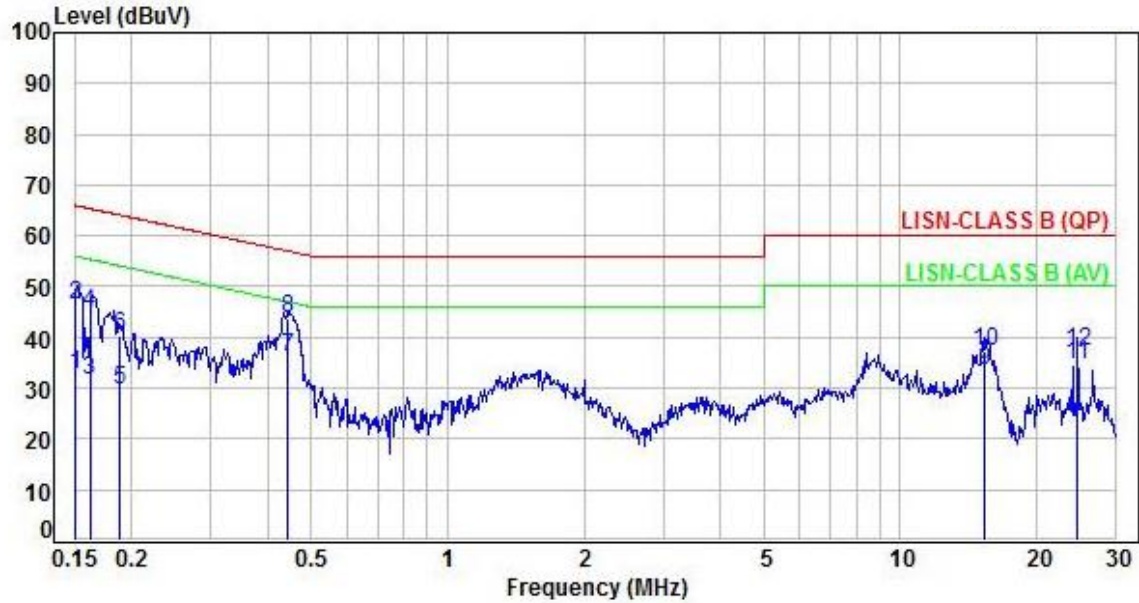
Margin=Level-Limit

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



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.97	22.79	32.76	55.95	-23.19	Average	P
2	0.15	9.97	36.60	46.57	65.95	-19.38	QP	P
3	0.16	9.97	21.45	31.42	55.37	-23.95	Average	P
4	0.16	9.97	35.06	45.03	65.37	-20.34	QP	P
5	0.19	9.97	19.65	29.62	54.14	-24.52	Average	P
6	0.19	9.97	30.25	40.22	64.14	-23.92	QP	P
7	0.44	9.98	26.28	36.26	47.04	-10.78	Average	P
8	0.44	9.98	33.57	43.55	57.04	-13.49	QP	P
9	15.40	10.58	22.87	33.45	50.00	-16.55	Average	P
10	15.40	10.58	26.86	37.44	60.00	-22.56	QP	P
11	24.58	10.88	23.64	34.52	50.00	-15.48	Average	P
12	24.58	10.88	26.30	37.18	60.00	-22.82	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

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



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



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.

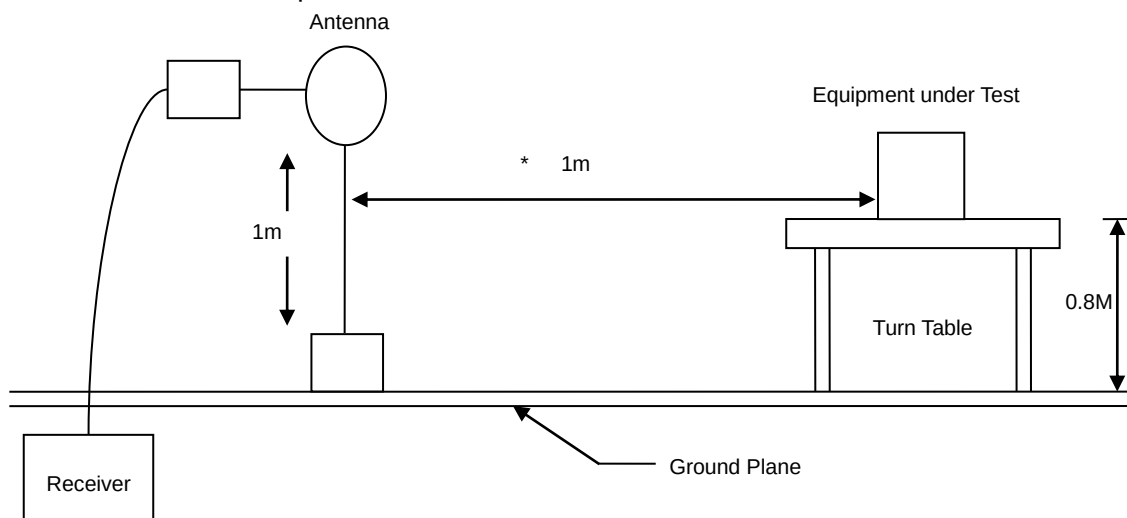
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(Z-AXIS is the worst.)

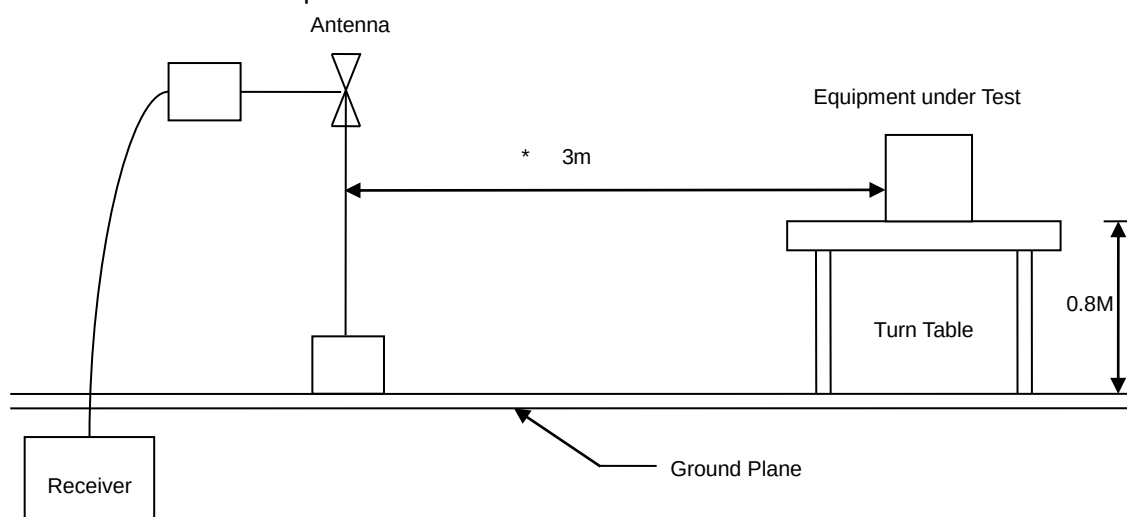


6.3 Typical Test Setup

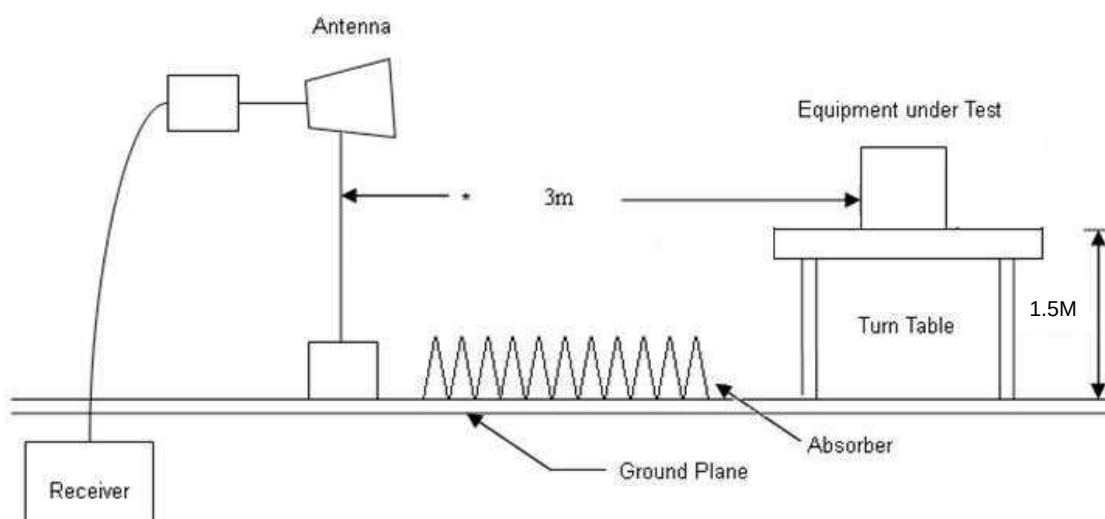
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup





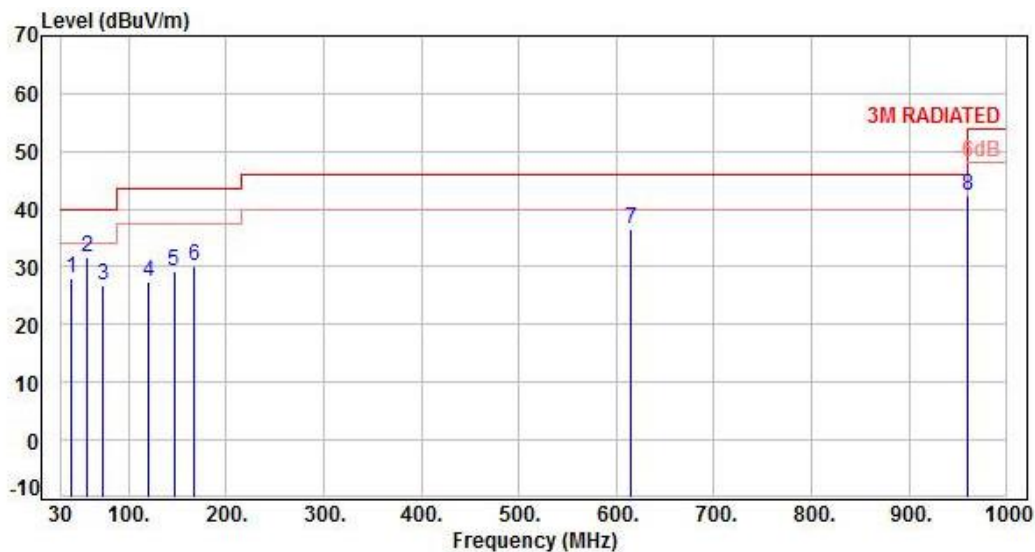
6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		



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	20.86	7.29	28.15	40.00	-11.85	Peak	400	360	P
2	57.16	20.49	11.10	31.59	40.00	-8.41	Peak	400	360	P
3	73.65	18.41	8.43	26.84	40.00	-13.16	Peak	400	360	P
4	120.21	18.83	8.61	27.44	43.50	-16.06	Peak	400	360	P
5	146.40	20.77	8.47	29.24	43.50	-14.26	Peak	400	360	P
6	166.77	21.00	9.05	30.05	43.50	-13.45	Peak	400	360	P
7	614.91	28.74	7.78	36.52	46.00	-9.48	Peak	400	360	P
8	960.23	33.34	8.95	42.29	54.00	-11.71	Peak	400	360	P

Note: Level=Reading+Factor

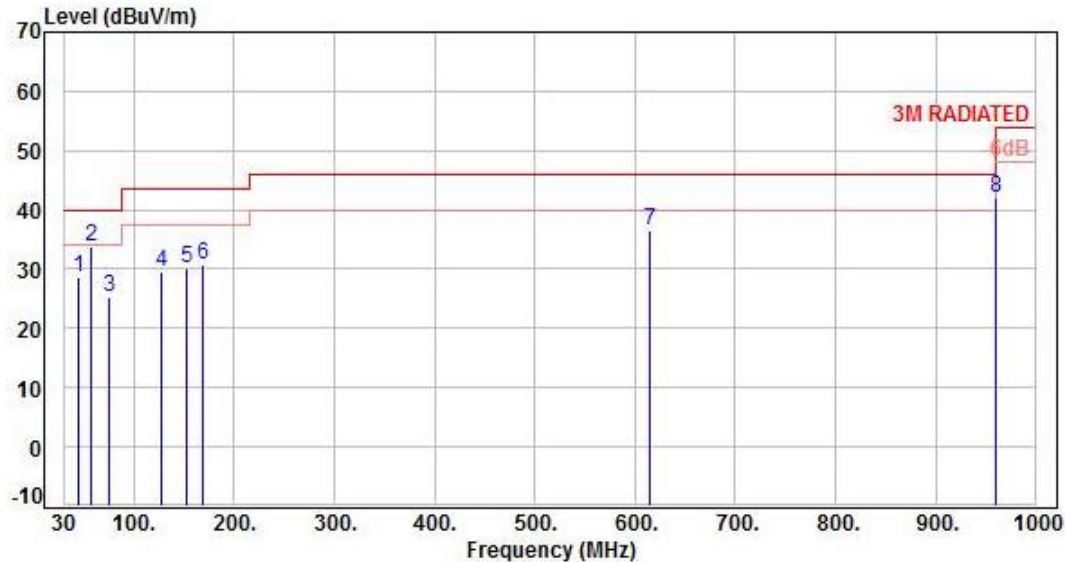
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	45.52	21.09	7.43	28.52	40.00	-11.48	Peak	400	360	P
2	58.13	20.38	13.35	33.73	40.00	-6.27	Peak	400	360	P
3	75.59	18.03	7.34	25.37	40.00	-14.63	Peak	400	360	P
4	127.97	19.61	9.94	29.55	43.50	-13.95	Peak	400	360	P
5	152.22	20.96	9.07	30.03	43.50	-13.47	Peak	400	360	P
6	168.71	20.84	10.01	30.85	43.50	-12.65	Peak	400	360	P
7	614.91	28.74	7.69	36.43	46.00	-9.57	Peak	400	360	P
8	960.23	33.34	8.69	42.03	54.00	-11.97	Peak	400	360	P

Note: Level=Reading+Factor

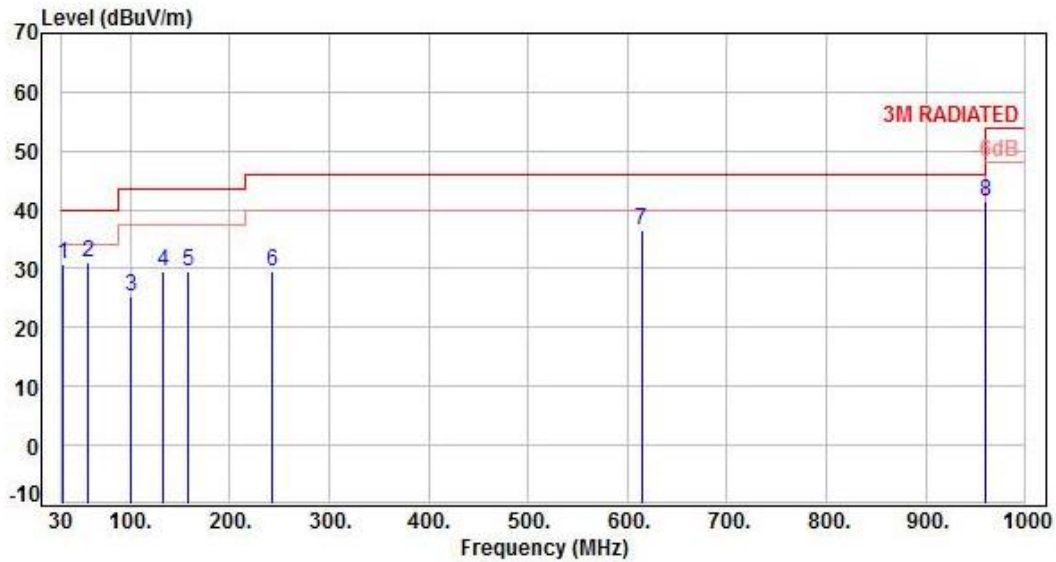
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	32.91	19.90	10.98	30.88	40.00	-9.12	Peak	400	360	P
2	58.13	20.38	10.60	30.98	40.00	-9.02	Peak	400	360	P
3	99.84	16.11	9.30	25.41	43.50	-18.09	Peak	400	360	P
4	132.82	20.10	9.40	29.50	43.50	-14.00	Peak	400	360	P
5	158.04	20.95	8.50	29.45	43.50	-14.05	Peak	400	360	P
6	243.40	19.82	9.82	29.64	46.00	-16.36	Peak	400	360	P
7	613.94	28.74	7.74	36.48	46.00	-9.52	Peak	400	360	P
8	960.23	33.34	8.17	41.51	54.00	-12.49	Peak	400	360	P

Note: Level=Reading+Factor

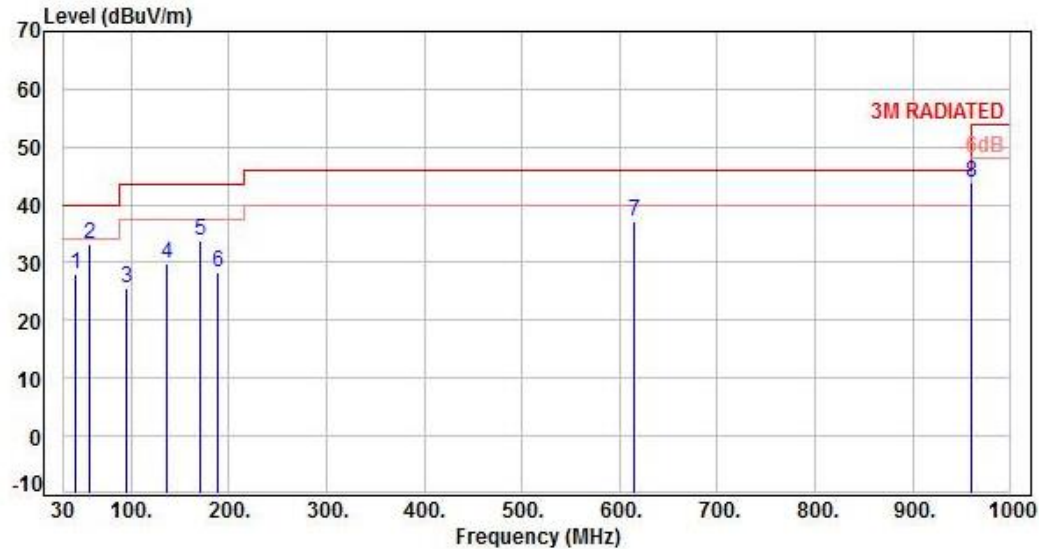
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	42.61	21.04	7.12	28.16	40.00	-11.84	Peak	400	360	P
2	58.13	20.38	12.74	33.12	40.00	-6.88	Peak	400	360	P
3	95.96	15.22	10.50	25.72	43.50	-17.78	Peak	400	360	P
4	136.70	20.36	9.51	29.87	43.50	-13.63	Peak	400	360	P
5	170.65	20.75	13.14	33.89	43.50	-9.61	Peak	400	360	P
6	189.08	18.70	9.70	28.40	43.50	-15.10	Peak	400	360	P
7	614.91	28.74	8.49	37.23	46.00	-8.77	Peak	400	360	P
8	960.23	33.34	10.48	43.82	54.00	-10.18	Peak	400	360	P

Note: Level=Reading+Factor

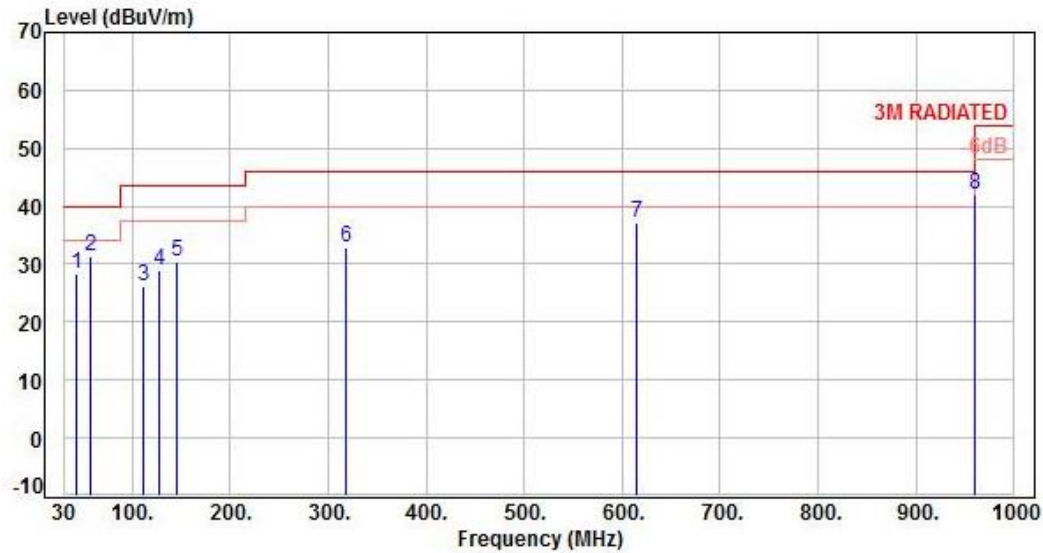
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	43.58	21.08	7.28	28.36	40.00	-11.64	Peak	400	360	P
2	57.16	20.49	10.88	31.37	40.00	-8.63	Peak	400	360	P
3	111.48	17.86	8.41	26.27	43.50	-17.23	Peak	400	360	P
4	127.97	19.61	9.40	29.01	43.50	-14.49	Peak	400	360	P
5	145.43	20.79	9.58	30.37	43.50	-13.13	Peak	400	360	P
6	318.09	22.33	10.49	32.82	46.00	-13.18	Peak	400	360	P
7	614.91	28.74	8.37	37.11	46.00	-8.89	Peak	400	360	P
8	960.23	33.34	8.66	42.00	54.00	-12.00	Peak	400	360	P

Note: Level=Reading+Factor

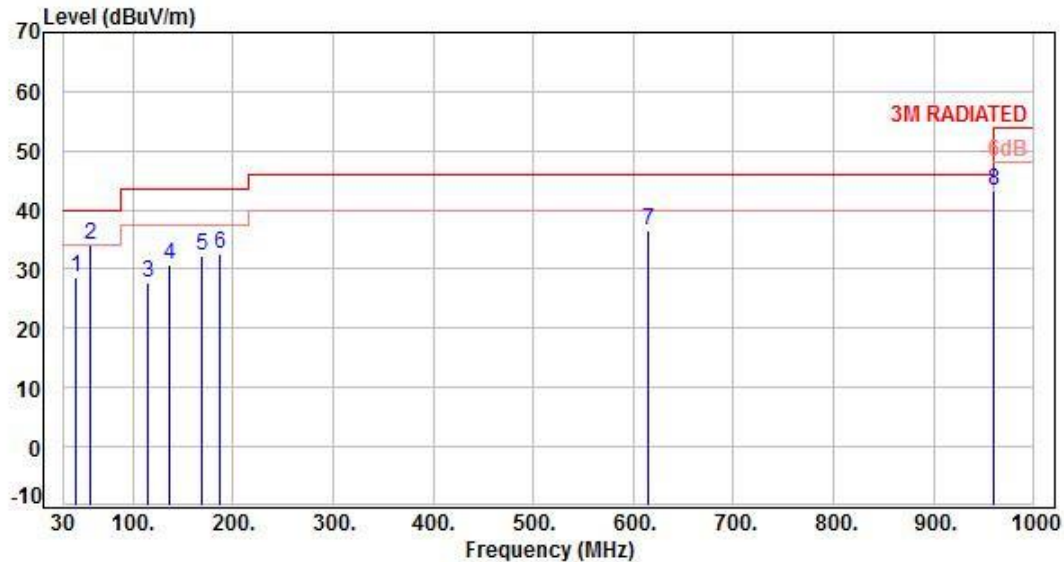
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	43.58	21.08	7.67	28.75	40.00	-11.25	Peak	400	360	P
2	58.13	20.38	13.68	34.06	40.00	-5.94	Peak	400	360	P
3	114.39	18.23	9.54	27.77	43.50	-15.73	Peak	400	360	P
4	136.70	20.36	10.46	30.82	43.50	-12.68	Peak	400	360	P
5	168.71	20.84	11.59	32.43	43.50	-11.07	Peak	400	360	P
6	186.17	18.96	13.56	32.52	43.50	-10.98	Peak	400	360	P
7	614.91	28.74	7.92	36.66	46.00	-9.34	Peak	400	360	P
8	960.23	33.34	9.99	43.33	54.00	-10.67	Peak	400	360	P

Note: Level=Reading+Factor

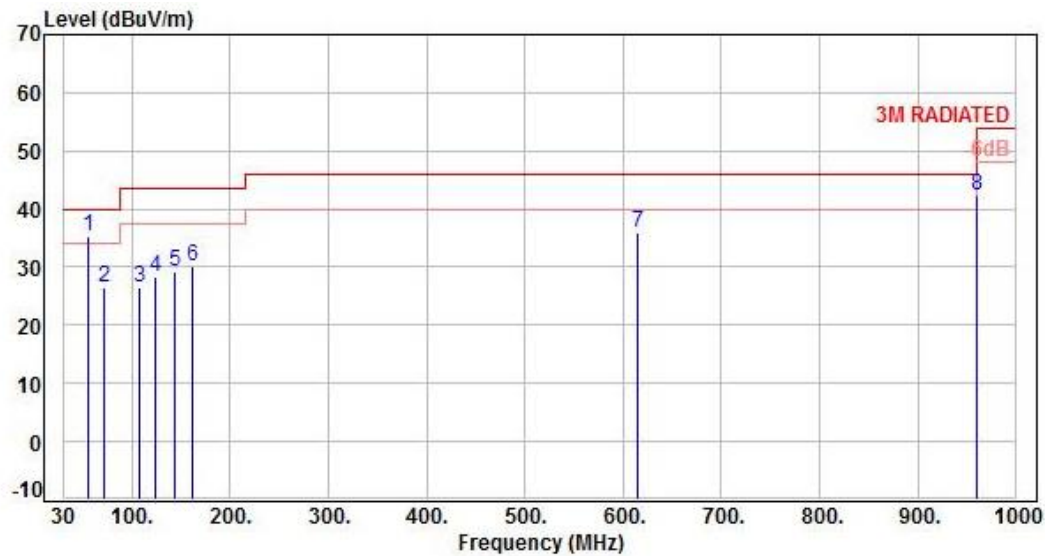
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	55.22	20.71	14.48	35.19	40.00	-4.81	Peak	400	360	P
2	71.71	18.64	7.77	26.41	40.00	-13.59	Peak	400	360	P
3	108.57	17.51	8.99	26.50	43.50	-17.00	Peak	400	360	P
4	123.12	19.04	9.39	28.43	43.50	-15.07	Peak	400	360	P
5	143.49	20.81	8.36	29.17	43.50	-14.33	Peak	400	360	P
6	160.95	21.06	9.17	30.23	43.50	-13.27	Peak	400	360	P
7	614.91	28.74	7.13	35.87	46.00	-10.13	Peak	400	360	P
8	960.23	33.34	8.90	42.24	54.00	-11.76	Peak	400	360	P

Note: Level=Reading+Factor

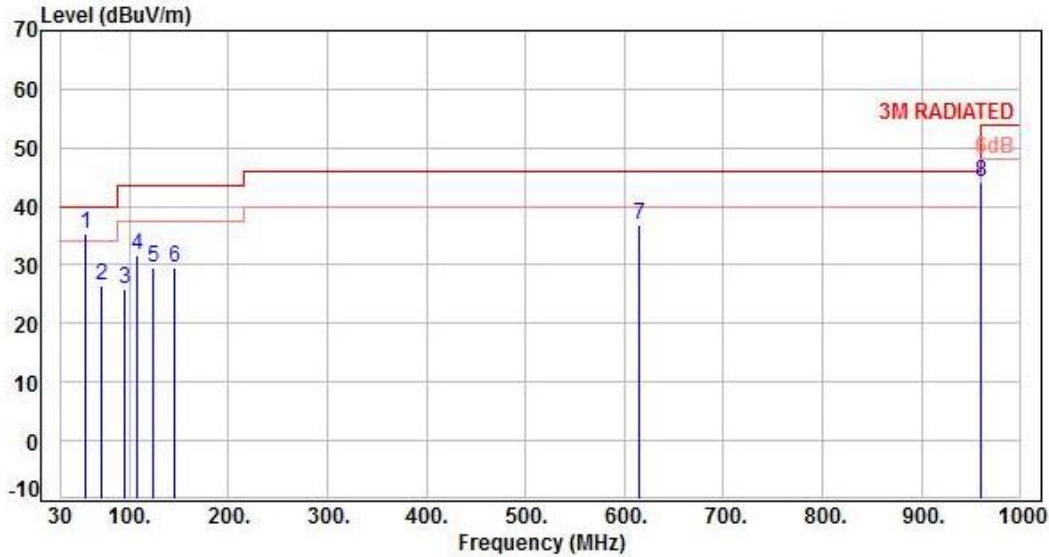
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	56.19	20.67	14.62	35.29	40.00	-4.71	Peak	400	360	P
2	71.71	18.64	7.94	26.58	40.00	-13.42	Peak	400	360	P
3	95.96	15.22	10.61	25.83	43.50	-17.67	Peak	400	360	P
4	107.60	17.41	14.17	31.58	43.50	-11.92	Peak	400	360	P
5	123.12	19.04	10.43	29.47	43.50	-14.03	Peak	400	360	P
6	145.43	20.79	8.77	29.56	43.50	-13.94	Peak	400	360	P
7	614.91	28.74	8.03	36.77	46.00	-9.23	Peak	400	360	P
8	960.23	33.34	10.65	43.99	54.00	-10.01	Peak	400	360	P

Note: Level=Reading+Factor

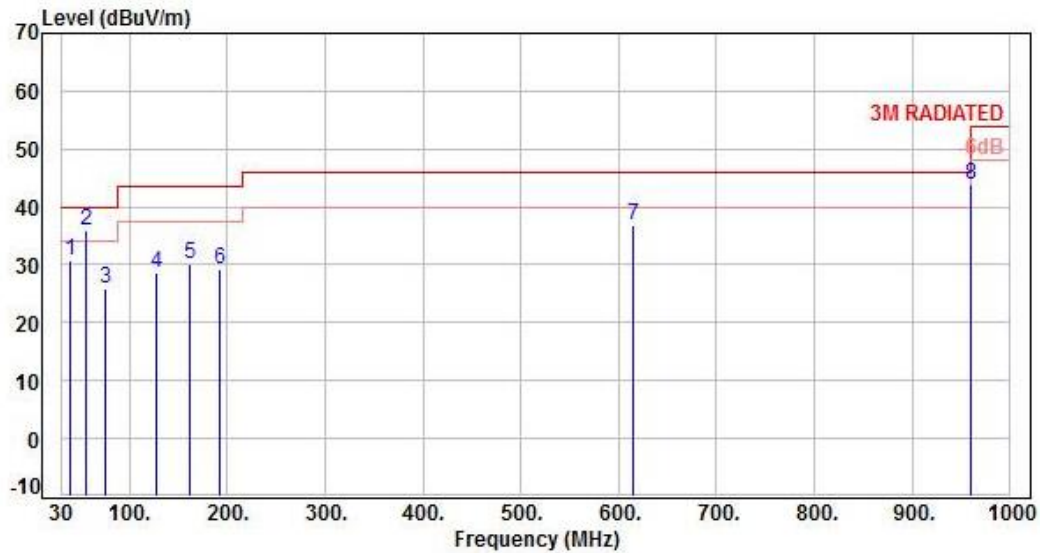
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	39.70	20.73	9.96	30.69	40.00	-9.31	Peak	400	360	P
2	55.22	20.71	15.13	35.84	40.00	-4.16	Peak	400	360	P
3	74.62	18.22	7.57	25.79	40.00	-14.21	Peak	400	360	P
4	127.97	19.61	8.91	28.52	43.50	-14.98	Peak	400	360	P
5	161.92	21.06	9.12	30.18	43.50	-13.32	Peak	400	360	P
6	192.96	18.52	10.59	29.11	43.50	-14.39	Peak	400	360	P
7	614.91	28.74	8.13	36.87	46.00	-9.13	Peak	400	360	P
8	960.23	33.34	10.53	43.87	54.00	-10.13	Peak	400	360	P

Note: Level=Reading+Factor

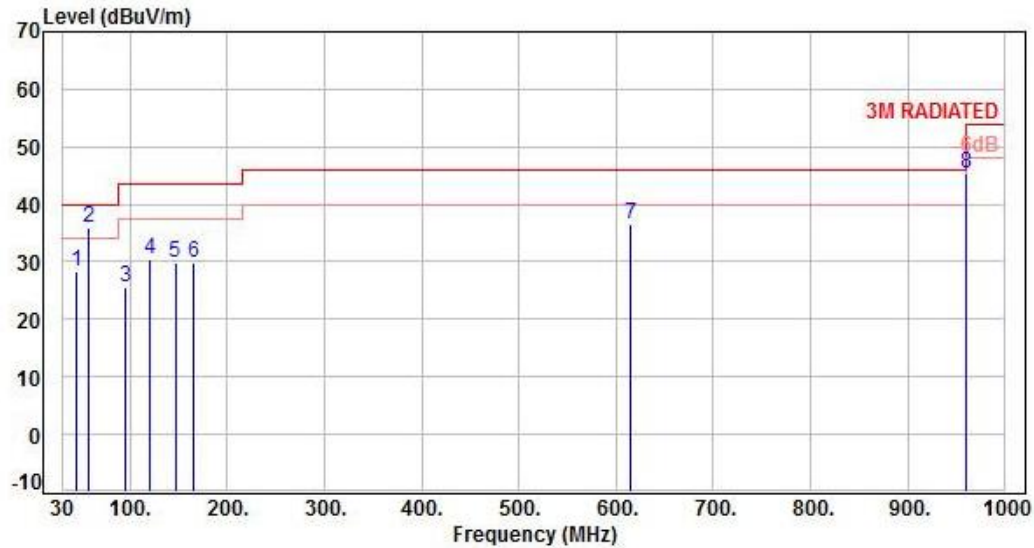
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	45.52	21.09	7.19	28.28	40.00	-11.72	Peak	400	360	P
2	57.16	20.49	15.41	35.90	40.00	-4.10	Peak	400	360	P
3	95.96	15.22	10.28	25.50	43.50	-18.00	Peak	400	360	P
4	120.21	18.83	11.53	30.36	43.50	-13.14	Peak	400	360	P
5	146.40	20.77	9.13	29.90	43.50	-13.60	Peak	400	360	P
6	164.83	21.08	8.82	29.90	43.50	-13.60	Peak	400	360	P
7	614.91	28.74	7.93	36.67	46.00	-9.33	Peak	400	360	P
8	960.23	33.34	12.15	45.49	54.00	-8.51	Peak	400	360	P

Note: Level=Reading+Factor

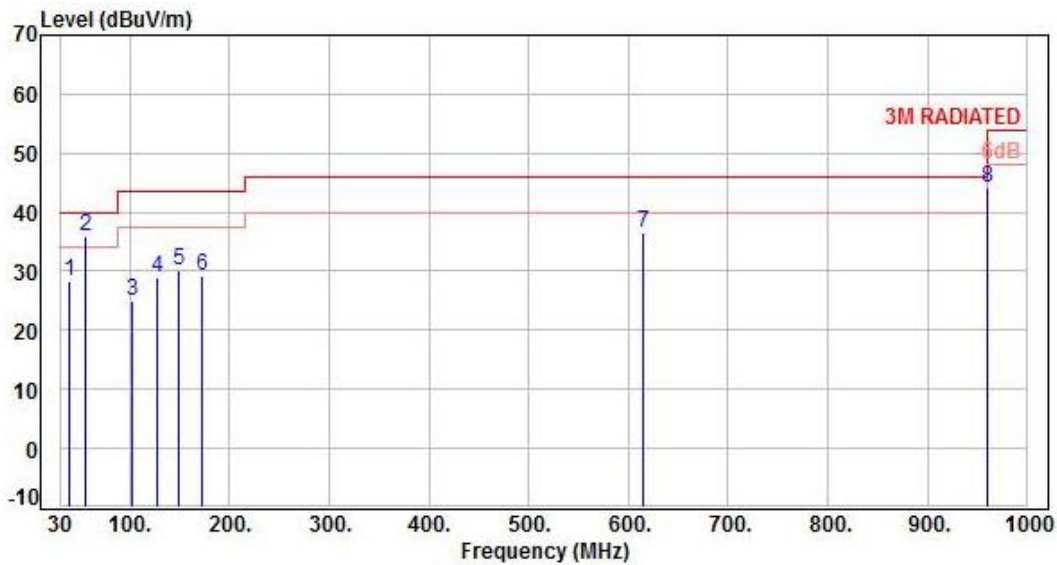
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	38.73	20.60	7.69	28.29	40.00	-11.71	Peak	400	360	P
2	55.22	20.71	15.18	35.89	40.00	-4.11	Peak	400	360	P
3	101.78	16.49	8.49	24.98	43.50	-18.52	Peak	400	360	P
4	127.97	19.61	9.39	29.00	43.50	-14.50	Peak	400	360	P
5	149.31	20.86	9.15	30.01	43.50	-13.49	Peak	400	360	P
6	171.62	20.66	8.49	29.15	43.50	-14.35	Peak	400	360	P
7	614.91	28.74	7.78	36.52	46.00	-9.48	Peak	400	360	P
8	960.23	33.34	10.80	44.14	54.00	-9.86	Peak	400	360	P

Note: Level=Reading+Factor

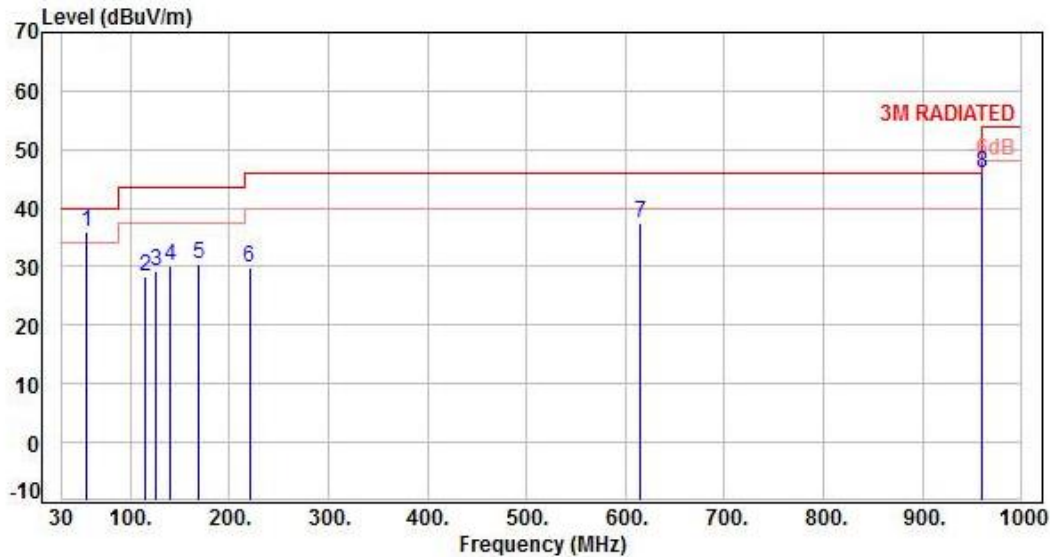
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	55.22	20.71	15.23	35.94	40.00	-4.06	Peak	400	360	P
2	115.36	18.29	10.08	28.37	43.50	-15.13	Peak	400	360	P
3	126.03	19.32	9.96	29.28	43.50	-14.22	Peak	400	360	P
4	140.58	20.59	9.51	30.10	43.50	-13.40	Peak	400	360	P
5	168.71	20.84	9.52	30.36	43.50	-13.14	Peak	400	360	P
6	220.12	18.92	10.96	29.88	46.00	-16.12	Peak	400	360	P
7	614.91	28.74	8.77	37.51	46.00	-8.49	Peak	400	360	P
8	960.23	33.34	12.66	46.00	54.00	-8.00	Peak	400	360	P

Note: Level=Reading+Factor

Margin=Level-Limit

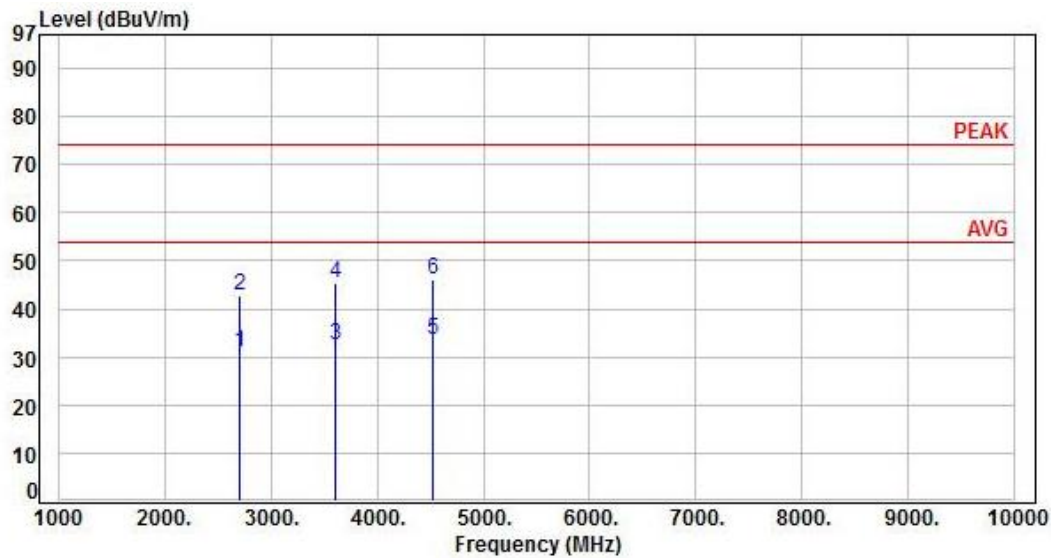
Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2710.50	-2.64	33.47	30.83	54.00	-23.17	Average	100	358	P
2	2710.50	-2.64	45.28	42.64	74.00	-31.36	Peak	100	358	P
3	3614.00	0.77	31.80	32.57	54.00	-21.43	Average	100	345	P
4	3614.00	0.77	44.43	45.20	74.00	-28.80	Peak	100	345	P
5	4517.50	2.71	30.71	33.42	54.00	-20.58	Average	100	325	P
6	4517.50	2.71	43.36	46.07	74.00	-27.93	Peak	100	325	P

Note: Level=Reading+Factor

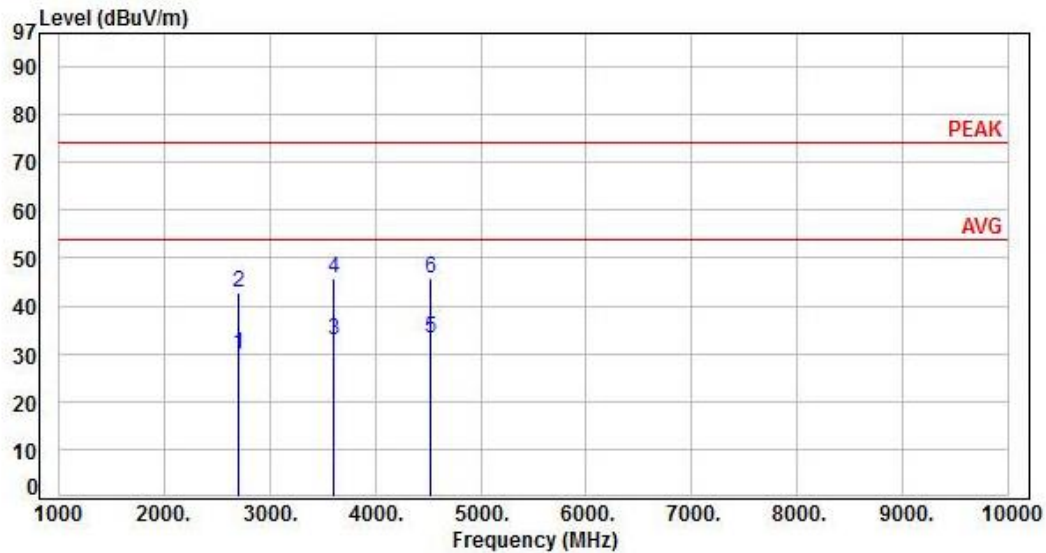
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2710.50	-2.64	32.54	29.90	54.00	-24.10	Average	100	109	P
2	2710.50	-2.64	45.44	42.80	74.00	-31.20	Peak	100	109	P
3	3614.00	0.77	31.98	32.75	54.00	-21.25	Average	100	116	P
4	3614.00	0.77	44.83	45.60	74.00	-28.40	Peak	100	116	P
5	4517.50	2.71	30.64	33.35	54.00	-20.65	Average	100	137	P
6	4517.50	2.71	42.86	45.57	74.00	-28.43	Peak	100	137	P

Note: Level=Reading+Factor

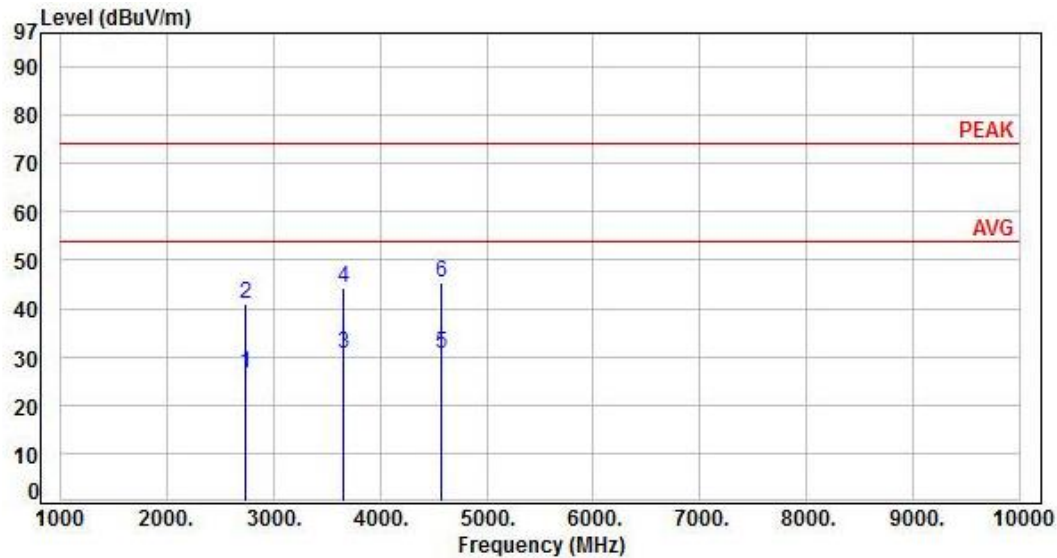
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2746.50	-2.68	29.37	26.69	54.00	-27.31	Average	100	354	P
2	2746.50	-2.68	43.71	41.03	74.00	-32.97	Peak	100	354	P
3	3662.00	1.01	29.60	30.61	54.00	-23.39	Average	100	332	P
4	3662.00	1.01	43.41	44.42	74.00	-29.58	Peak	100	332	P
5	4577.50	2.83	27.82	30.65	54.00	-23.35	Average	100	299	P
6	4577.50	2.83	42.37	45.20	74.00	-28.80	Peak	100	299	P

Note: Level=Reading+Factor

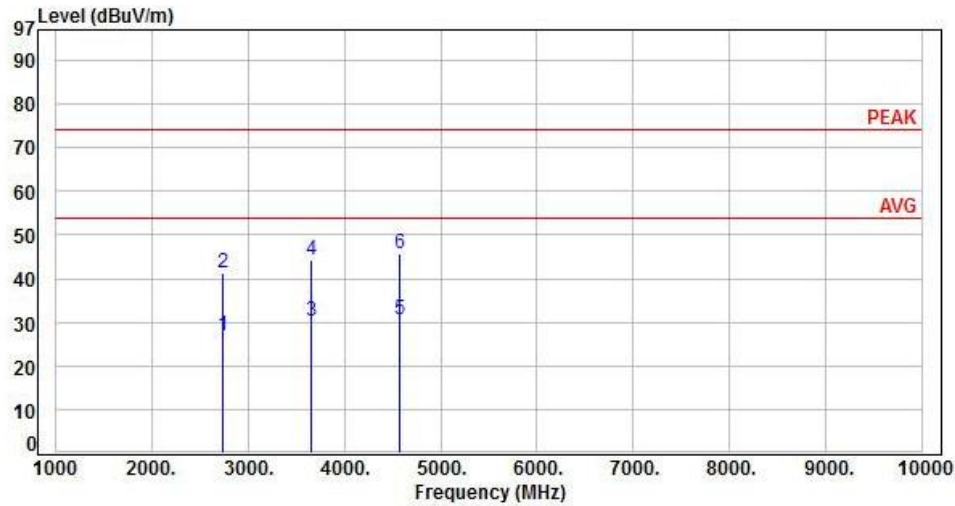
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2746.50	-2.68	29.69	27.01	54.00	-26.99	Average	100	341	P
2	2746.50	-2.68	43.90	41.22	74.00	-32.78	Peak	100	341	P
3	3662.00	1.01	29.33	30.34	54.00	-23.66	Average	100	341	P
4	3662.00	1.01	43.16	44.17	74.00	-29.83	Peak	100	341	P
5	4577.50	2.83	27.88	30.71	54.00	-23.29	Average	100	341	P
6	4577.50	2.83	42.92	45.75	74.00	-28.25	Peak	100	341	P

Note: Level=Reading+Factor

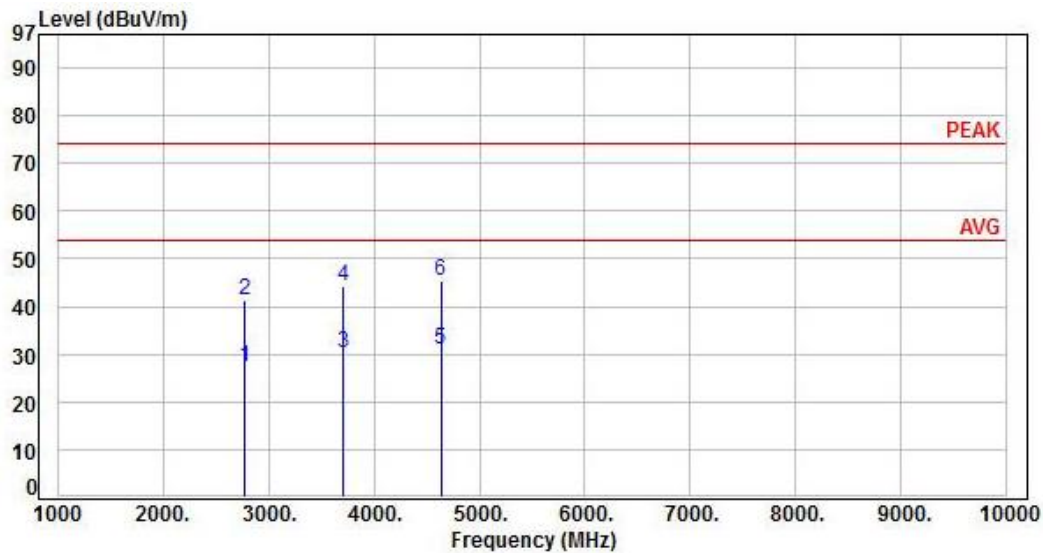
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2779.50	-2.59	29.83	27.24	54.00	-26.76	Average	100	277	P
2	2779.50	-2.59	43.88	41.29	74.00	-32.71	Peak	100	277	P
3	3706.00	1.49	28.68	30.17	54.00	-23.83	Average	100	212	P
4	3706.00	1.49	42.73	44.22	74.00	-29.78	Peak	100	212	P
5	4632.50	3.01	27.88	30.89	54.00	-23.11	Average	100	249	P
6	4632.50	3.01	42.26	45.27	74.00	-28.73	Peak	100	249	P

Note: Level=Reading+Factor

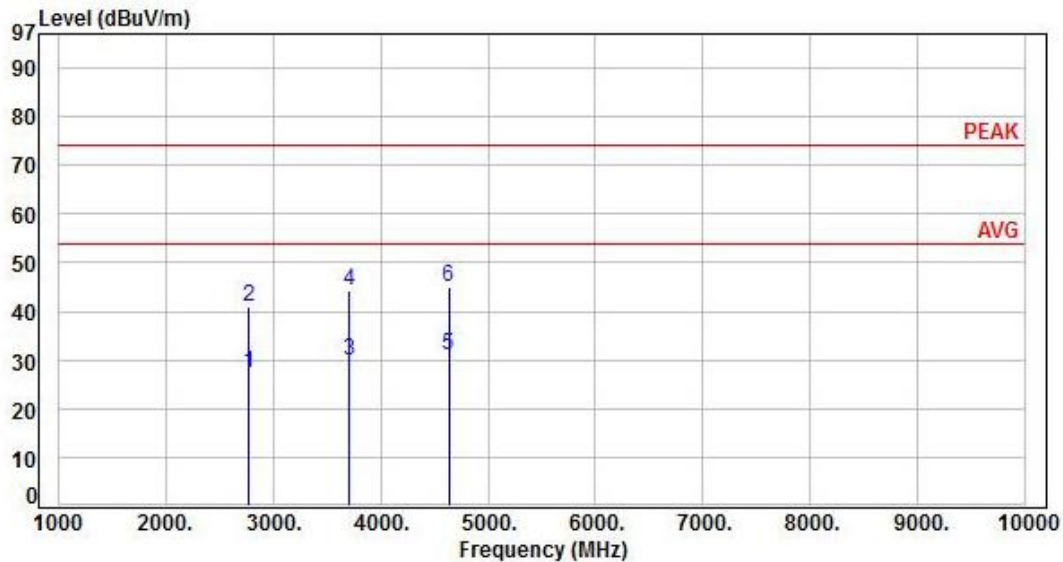
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2779.50	-2.59	29.75	27.16	54.00	-26.84	Average	100	265	P
2	2779.50	-2.59	43.66	41.07	74.00	-32.93	Peak	100	265	P
3	3706.00	1.49	28.34	29.83	54.00	-24.17	Average	100	259	P
4	3706.00	1.49	42.67	44.16	74.00	-29.84	Peak	100	259	P
5	4632.50	3.01	27.83	30.84	54.00	-23.16	Average	100	264	P
6	4632.50	3.01	41.82	44.83	74.00	-29.17	Peak	100	264	P

Note: Level=Reading+Factor

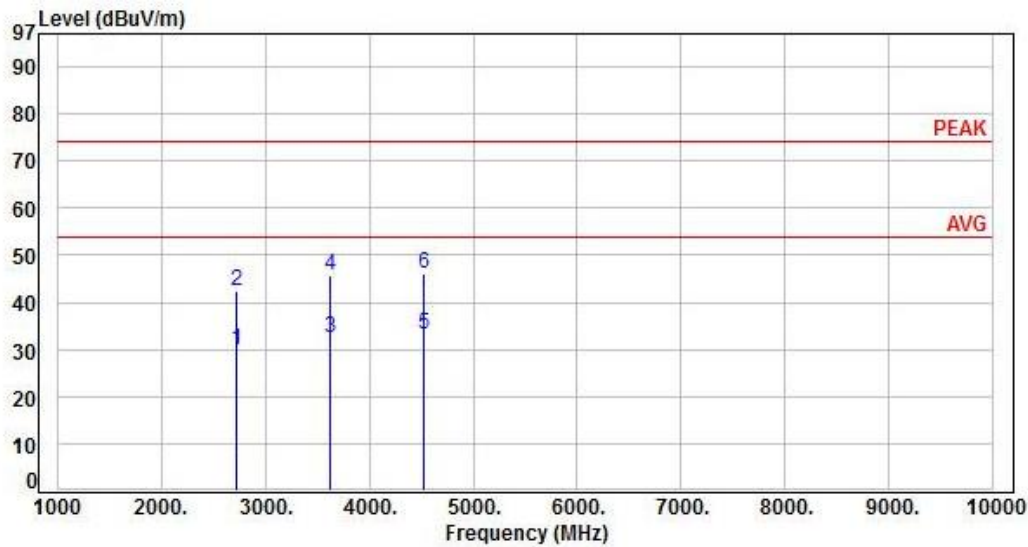
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2715.00	-2.65	32.35	29.70	54.00	-24.30	Average	100	338	P
2	2715.00	-2.65	45.22	42.57	74.00	-31.43	Peak	100	338	P
3	3620.00	0.78	31.63	32.41	54.00	-21.59	Average	100	341	P
4	3620.00	0.78	44.82	45.60	74.00	-28.40	Peak	100	341	P
5	4525.00	2.71	30.44	33.15	54.00	-20.85	Average	100	325	P
6	4525.00	2.71	43.30	46.01	74.00	-27.99	Peak	100	325	P

Note: Level=Reading+Factor

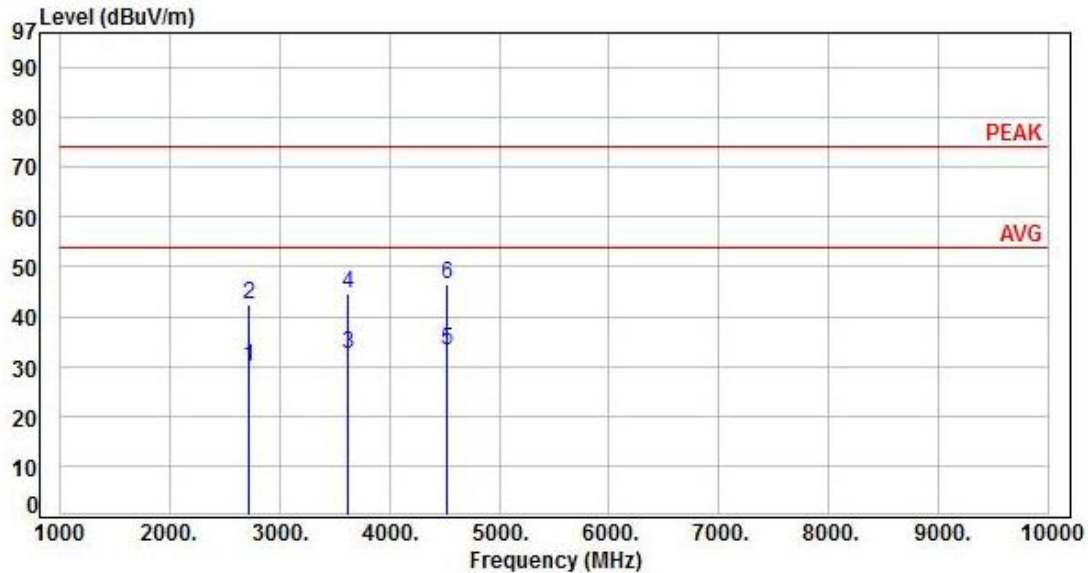
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2715.00	-2.65	32.49	29.84	54.00	-24.16	Average	100	115	P
2	2715.00	-2.65	45.04	42.39	74.00	-31.61	Peak	100	115	P
3	3620.00	0.78	31.80	32.58	54.00	-21.42	Average	100	132	P
4	3620.00	0.78	43.92	44.70	74.00	-29.30	Peak	100	132	P
5	4525.00	2.71	30.53	33.24	54.00	-20.76	Average	100	148	P
6	4525.00	2.71	43.66	46.37	74.00	-27.63	Peak	100	148	P

Note: Level=Reading+Factor

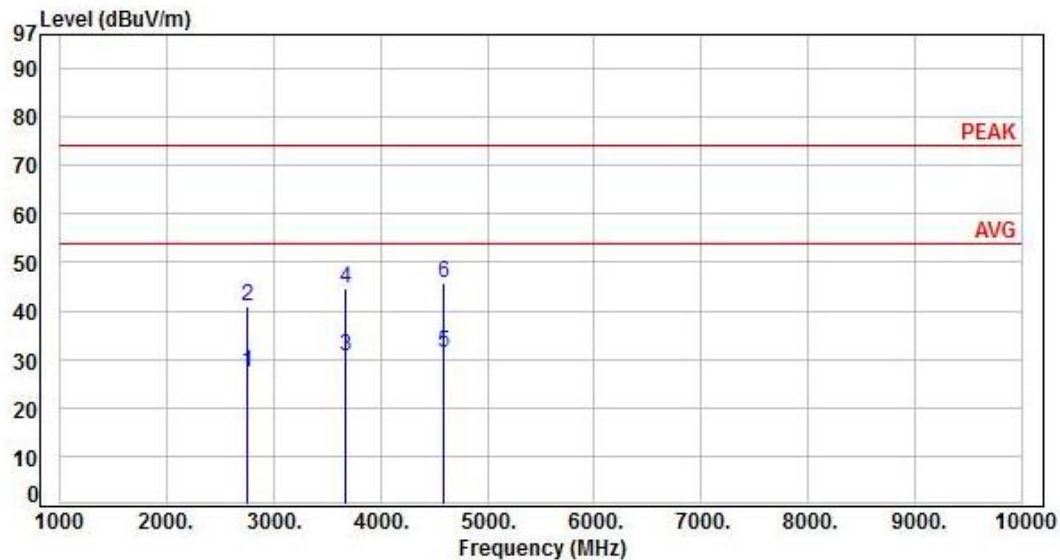
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2751.00	-2.67	29.90	27.23	54.00	-26.77	Average	100	171	P
2	2751.00	-2.67	43.66	40.99	74.00	-33.01	Peak	100	171	P
3	3668.00	1.08	29.37	30.45	54.00	-23.55	Average	100	187	P
4	3668.00	1.08	43.64	44.72	74.00	-29.28	Peak	100	187	P
5	4585.00	2.86	28.62	31.48	54.00	-22.52	Average	100	139	P
6	4585.00	2.86	42.81	45.67	74.00	-28.33	Peak	100	139	P

Note: Level=Reading+Factor

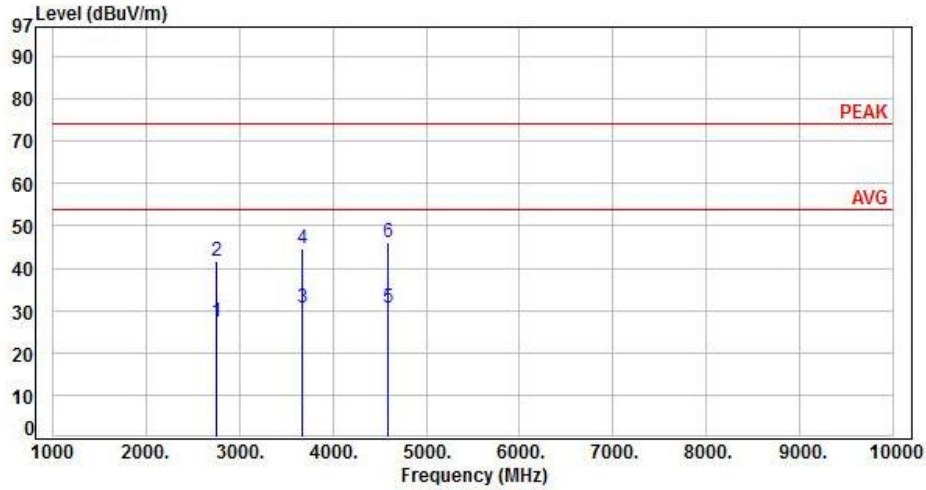
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2751.00	-2.67	29.93	27.26	54.00	-26.74	Average	100	164	P
2	2751.00	-2.67	44.28	41.61	74.00	-32.39	Peak	100	164	P
3	3668.00	1.08	29.57	30.65	54.00	-23.35	Average	100	177	P
4	3668.00	1.08	43.56	44.64	74.00	-29.36	Peak	100	177	P
5	4585.00	2.86	27.91	30.77	54.00	-23.23	Average	100	191	P
6	4585.00	2.86	43.07	45.93	74.00	-28.07	Peak	100	191	P

Note: Level=Reading+Factor

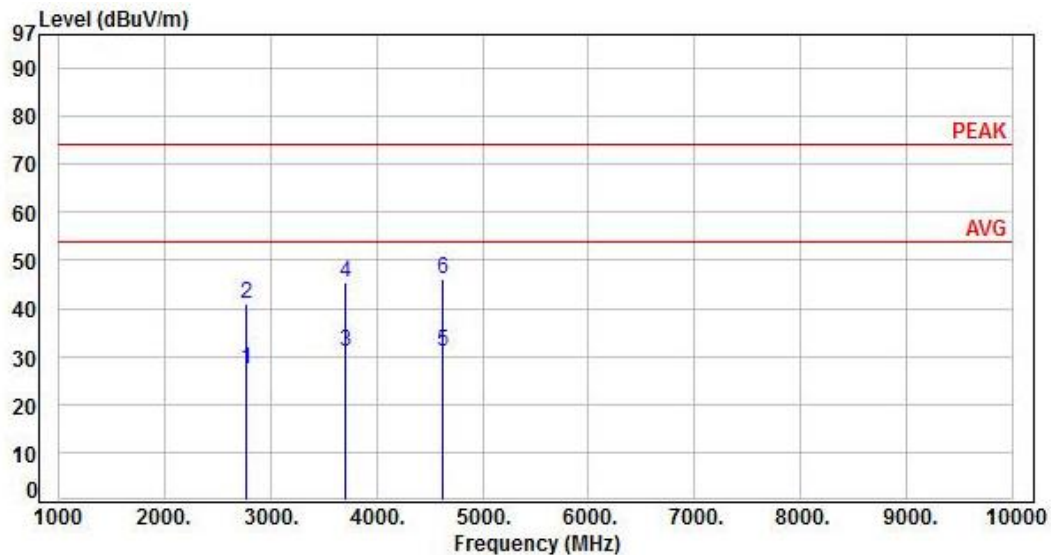
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2775.00	-2.60	30.05	27.45	54.00	-26.55	Average	100	355	P
2	2775.00	-2.60	43.71	41.11	74.00	-32.89	Peak	100	355	P
3	3700.00	1.44	29.46	30.90	54.00	-23.10	Average	100	319	P
4	3700.00	1.44	43.94	45.38	74.00	-28.62	Peak	100	319	P
5	4625.00	2.98	27.91	30.89	54.00	-23.11	Average	100	333	P
6	4625.00	2.98	42.96	45.94	74.00	-28.06	Peak	100	333	P

Note: Level=Reading+Factor

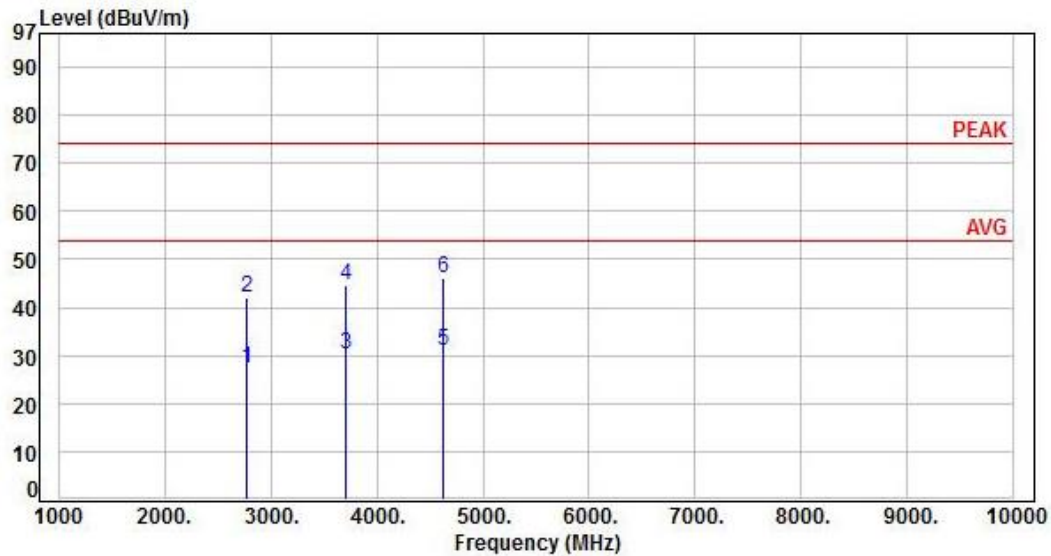
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2775.00	-2.60	29.91	27.31	54.00	-26.69	Average	100	239	P
2	2775.00	-2.60	44.61	42.01	74.00	-31.99	Peak	100	239	P
3	3700.00	1.44	28.97	30.41	54.00	-23.59	Average	100	289	P
4	3700.00	1.44	43.37	44.81	74.00	-29.19	Peak	100	289	P
5	4625.00	2.98	27.96	30.94	54.00	-23.06	Average	100	321	P
6	4625.00	2.98	43.10	46.08	74.00	-27.92	Peak	100	321	P

Note: Level=Reading+Factor

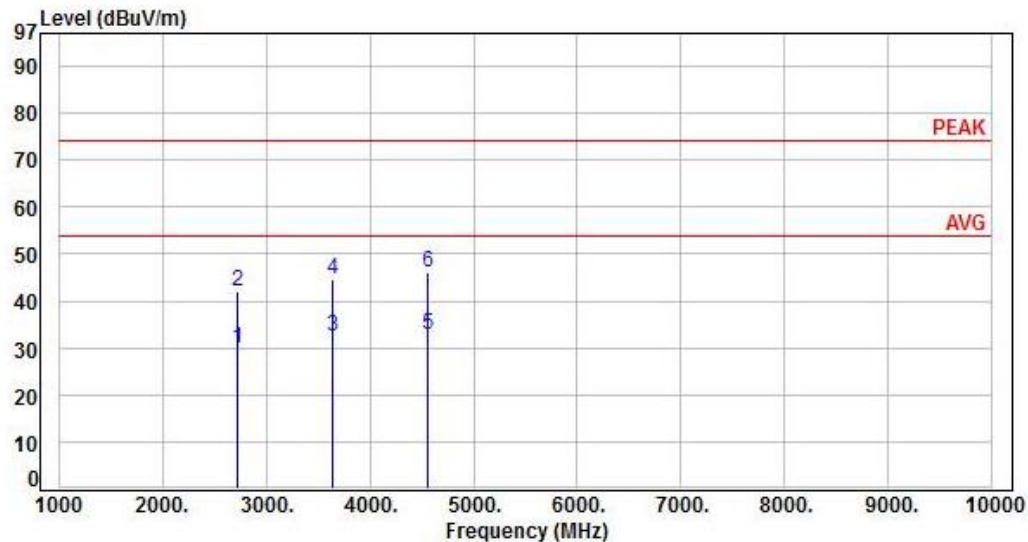
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2730.00	-2.66	32.53	29.87	54.00	-24.13	Average	100	355	P
2	2730.00	-2.66	44.73	42.07	74.00	-31.93	Peak	100	355	P
3	3640.00	0.85	31.46	32.31	54.00	-21.69	Average	100	346	P
4	3640.00	0.85	43.91	44.76	74.00	-29.24	Peak	100	346	P
5	4550.00	2.75	30.25	33.00	54.00	-21.00	Average	100	337	P
6	4550.00	2.75	43.32	46.07	74.00	-27.93	Peak	100	337	P

Note: Level=Reading+Factor

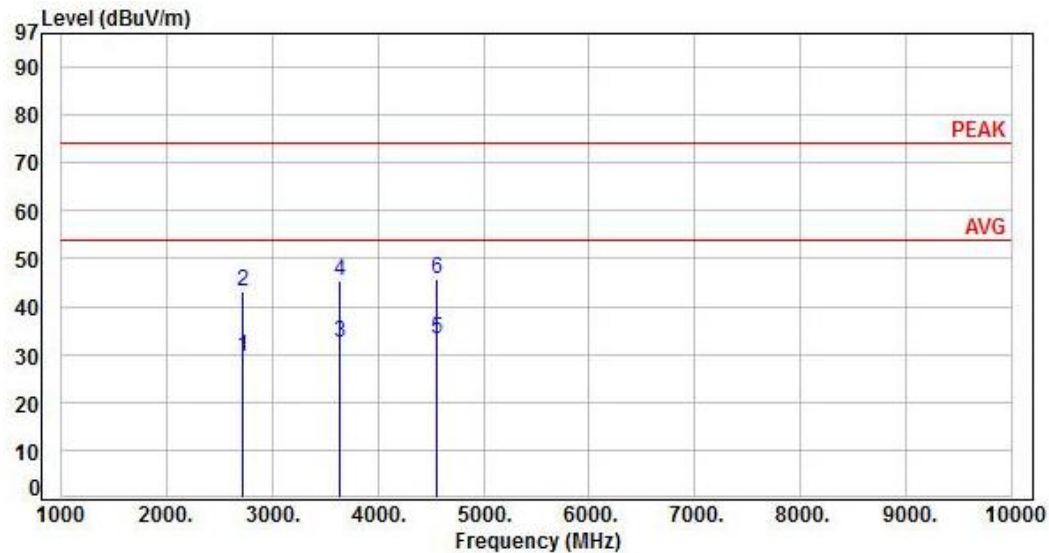
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2730.00	-2.66	32.25	29.59	54.00	-24.41	Average	100	128	P
2	2730.00	-2.66	45.85	43.19	74.00	-30.81	Peak	100	128	P
3	3640.00	0.85	31.79	32.64	54.00	-21.36	Average	100	131	P
4	3640.00	0.85	44.41	45.26	74.00	-28.74	Peak	100	131	P
5	4550.00	2.75	30.28	33.03	54.00	-20.97	Average	100	117	P
6	4550.00	2.75	43.14	45.89	74.00	-28.11	Peak	100	117	P

Note: Level=Reading+Factor

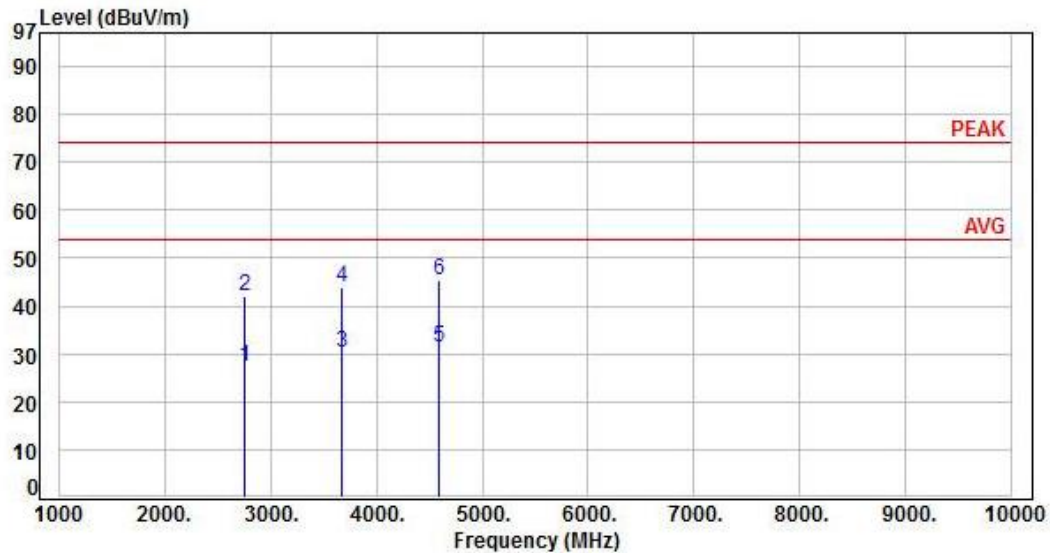
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2754.00	-2.66	30.01	27.35	54.00	-26.65	Average	100	265	P
2	2754.00	-2.66	44.60	41.94	74.00	-32.06	Peak	100	265	P
3	3672.00	1.13	29.17	30.30	54.00	-23.70	Average	100	229	P
4	3672.00	1.13	42.59	43.72	74.00	-30.28	Peak	100	229	P
5	4590.00	2.87	28.31	31.18	54.00	-22.82	Average	100	241	P
6	4590.00	2.87	42.38	45.25	74.00	-28.75	Peak	100	241	P

Note: Level=Reading+Factor

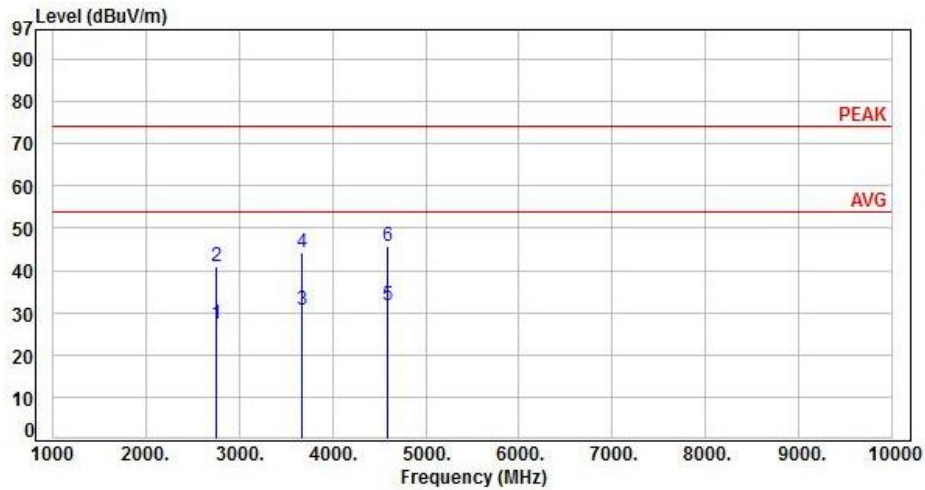
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2754.00	-2.66	29.88	27.22	54.00	-26.78	Average	100	287	P
2	2754.00	-2.66	43.70	41.04	74.00	-32.96	Peak	100	287	P
3	3672.00	1.13	29.44	30.57	54.00	-23.43	Average	100	255	P
4	3672.00	1.13	43.29	44.42	74.00	-29.58	Peak	100	255	P
5	4590.00	2.87	28.90	31.77	54.00	-22.23	Average	100	246	P
6	4590.00	2.87	42.91	45.78	74.00	-28.22	Peak	100	246	P

Note: Level=Reading+Factor

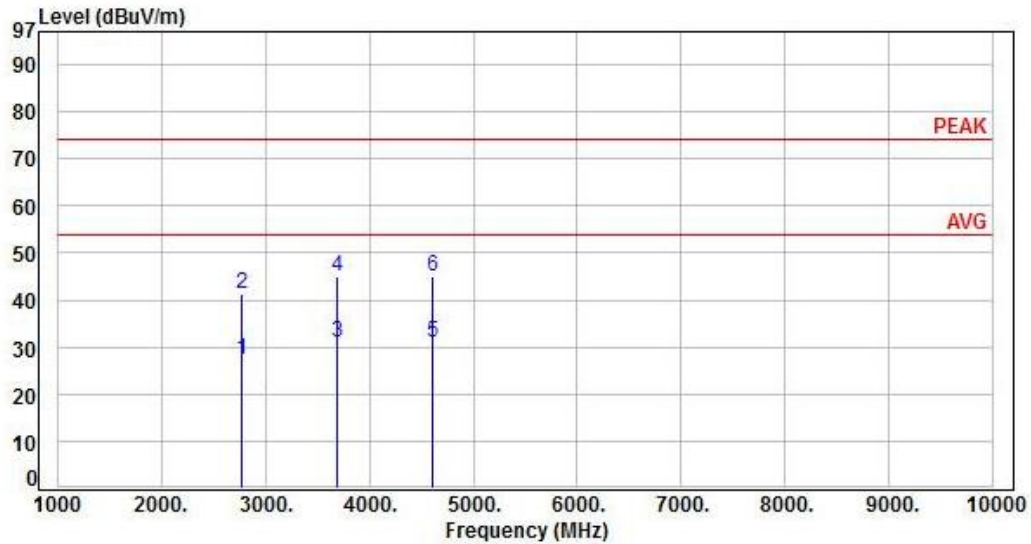
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2766.00	-2.63	29.88	27.25	54.00	-26.75	Average	100	211	P
2	2766.00	-2.63	43.76	41.13	74.00	-32.87	Peak	100	211	P
3	3688.00	1.30	29.82	31.12	54.00	-22.88	Average	100	199	P
4	3688.00	1.30	43.58	44.88	74.00	-29.12	Peak	100	199	P
5	4610.00	2.94	27.98	30.92	54.00	-23.08	Average	100	167	P
6	4610.00	2.94	41.90	44.84	74.00	-29.16	Peak	100	167	P

Note: Level=Reading+Factor

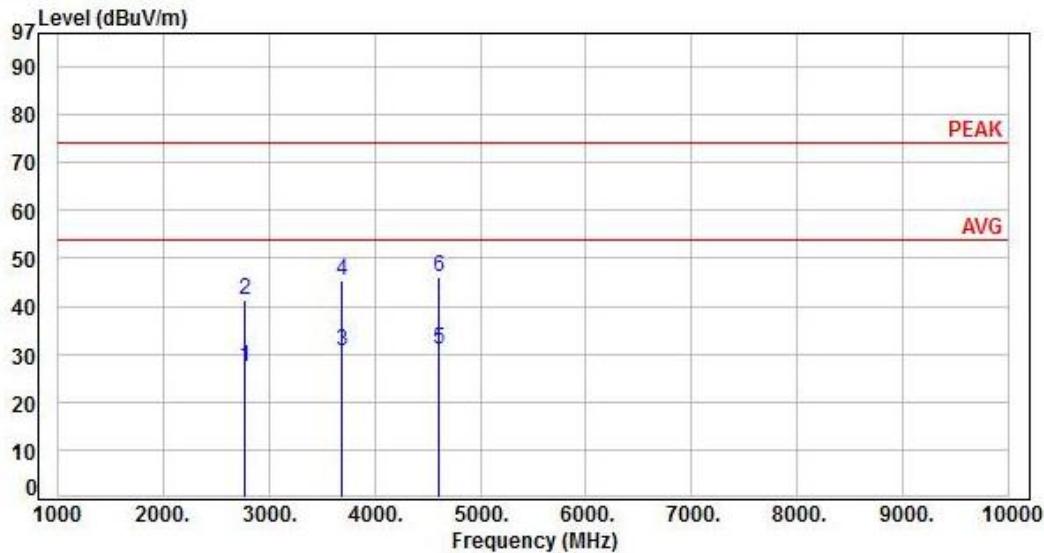
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Diople Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2766.00	-2.63	29.97	27.34	54.00	-26.66	Average	100	310	P
2	2766.00	-2.63	43.95	41.32	74.00	-32.68	Peak	100	310	P
3	3688.00	1.30	29.50	30.80	54.00	-23.20	Average	100	292	P
4	3688.00	1.30	44.15	45.45	74.00	-28.55	Peak	100	292	P
5	4610.00	2.94	28.01	30.95	54.00	-23.05	Average	100	305	P
6	4610.00	2.94	43.24	46.18	74.00	-27.82	Peak	100	305	P

Note: Level=Reading+Factor

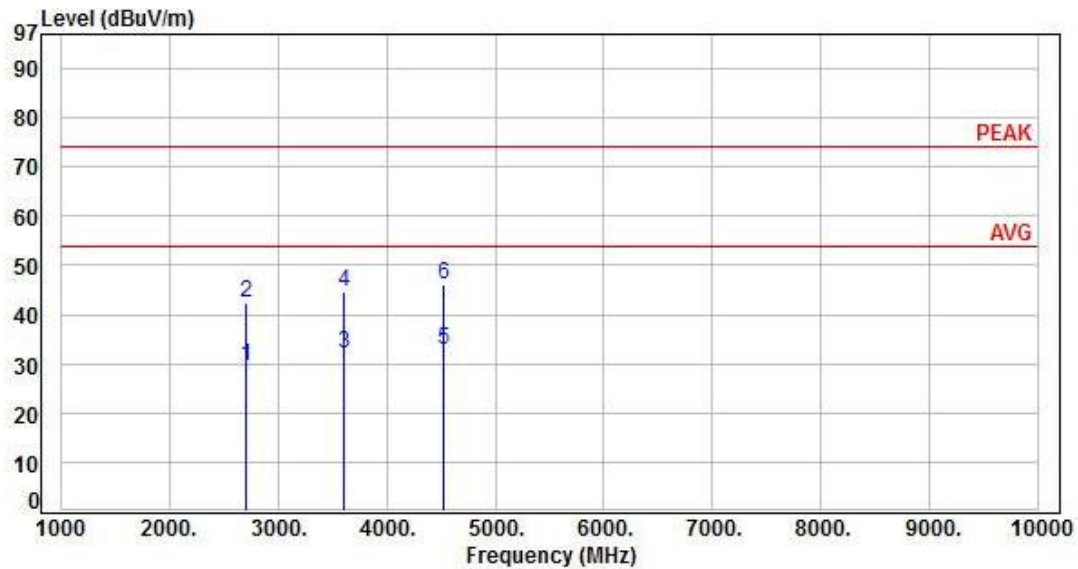
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2710.50	-2.64	32.14	29.50	54.00	-24.50	Average	100	266	P
2	2710.50	-2.64	44.93	42.29	74.00	-31.71	Peak	100	266	P
3	3614.00	0.77	31.43	32.20	54.00	-21.80	Average	100	274	P
4	3614.00	0.77	43.94	44.71	74.00	-29.29	Peak	100	274	P
5	4517.50	2.71	30.13	32.84	54.00	-21.16	Average	100	281	P
6	4517.50	2.71	43.27	45.98	74.00	-28.02	Peak	100	281	P

Note: Level=Reading+Factor

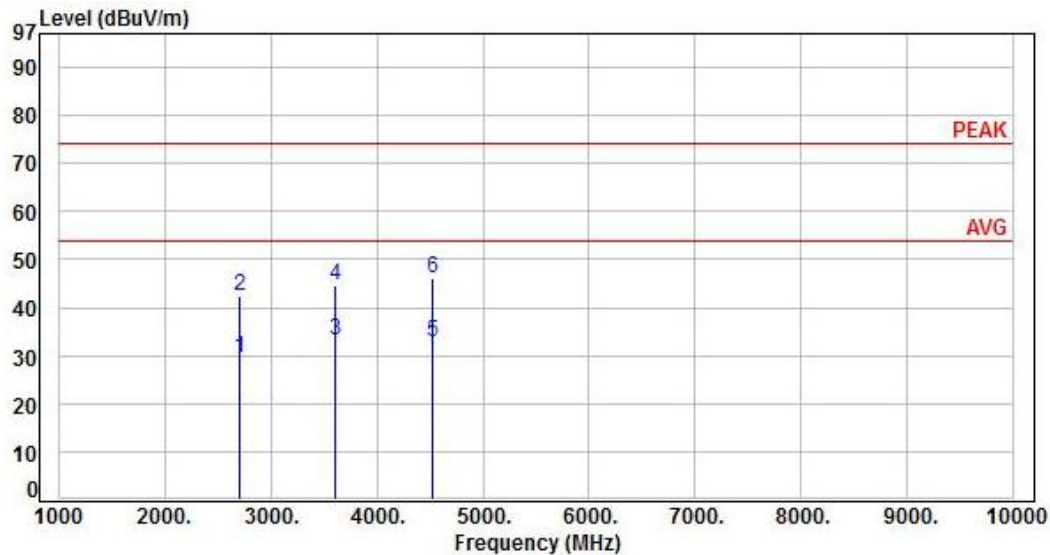
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2710.50	-2.64	32.32	29.68	54.00	-24.32	Average	100	84	P
2	2710.50	-2.64	45.11	42.47	74.00	-31.53	Peak	100	84	P
3	3614.00	0.77	32.26	33.03	54.00	-20.97	Average	100	91	P
4	3614.00	0.77	43.93	44.70	74.00	-29.30	Peak	100	91	P
5	4517.50	2.71	30.23	32.94	54.00	-21.06	Average	100	82	P
6	4517.50	2.71	43.31	46.02	74.00	-27.98	Peak	100	82	P

Note: Level=Reading+Factor

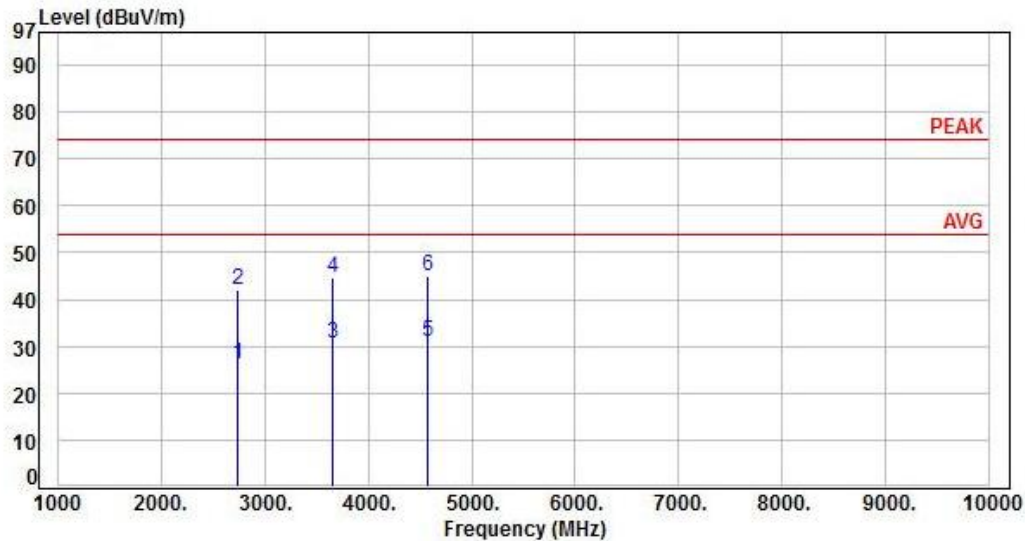
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2746.50	-2.68	29.03	26.35	54.00	-27.65	Average	100	349	P
2	2746.50	-2.68	44.68	42.00	74.00	-32.00	Peak	100	349	P
3	3662.00	1.01	29.61	30.62	54.00	-23.38	Average	100	326	P
4	3662.00	1.01	43.58	44.59	74.00	-29.41	Peak	100	326	P
5	4577.50	2.83	28.11	30.94	54.00	-23.06	Average	100	351	P
6	4577.50	2.83	42.02	44.85	74.00	-29.15	Peak	100	351	P

Note: Level=Reading+Factor

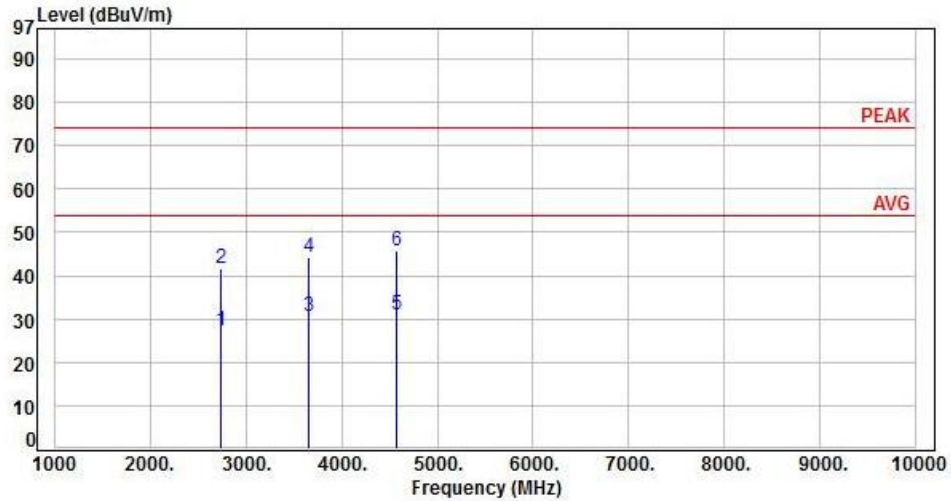
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2746.50	-2.68	30.08	27.40	54.00	-26.60	Average	100	287	P
2	2746.50	-2.68	44.46	41.78	74.00	-32.22	Peak	100	287	P
3	3662.00	1.01	29.63	30.64	54.00	-23.36	Average	100	269	P
4	3662.00	1.01	43.25	44.26	74.00	-29.74	Peak	100	269	P
5	4577.50	2.83	28.06	30.89	54.00	-23.11	Average	100	301	P
6	4577.50	2.83	42.84	45.67	74.00	-28.33	Peak	100	301	P

Note: Level=Reading+Factor

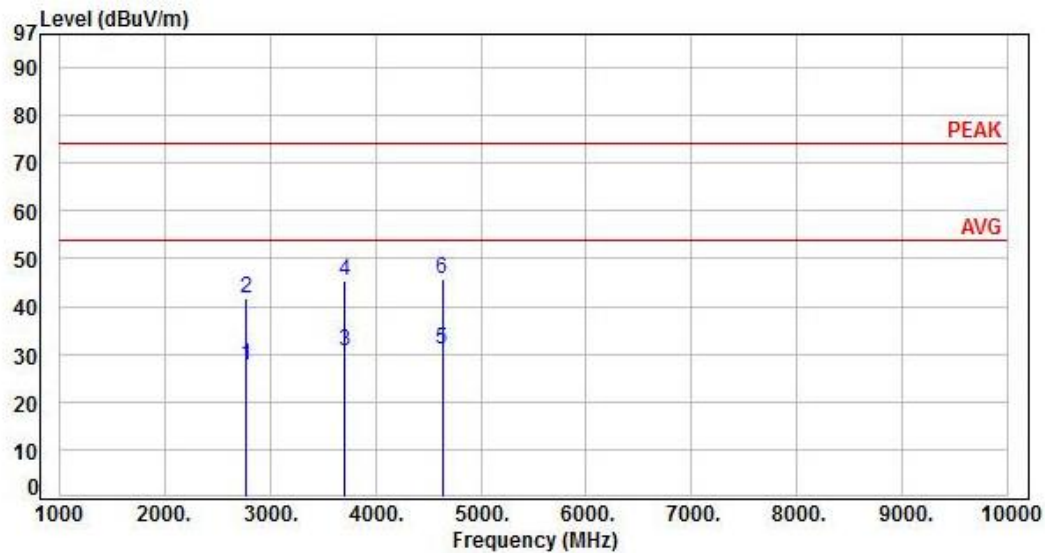
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH03		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2779.50	-2.59	30.11	27.52	54.00	-26.48	Average	100	244	P
2	2779.50	-2.59	44.21	41.62	74.00	-32.38	Peak	100	244	P
3	3706.00	1.49	29.14	30.63	54.00	-23.37	Average	100	208	P
4	3706.00	1.49	43.85	45.34	74.00	-28.66	Peak	100	208	P
5	4632.50	3.01	28.09	31.10	54.00	-22.90	Average	100	228	P
6	4632.50	3.01	42.55	45.56	74.00	-28.44	Peak	100	228	P

Note: Level=Reading+Factor

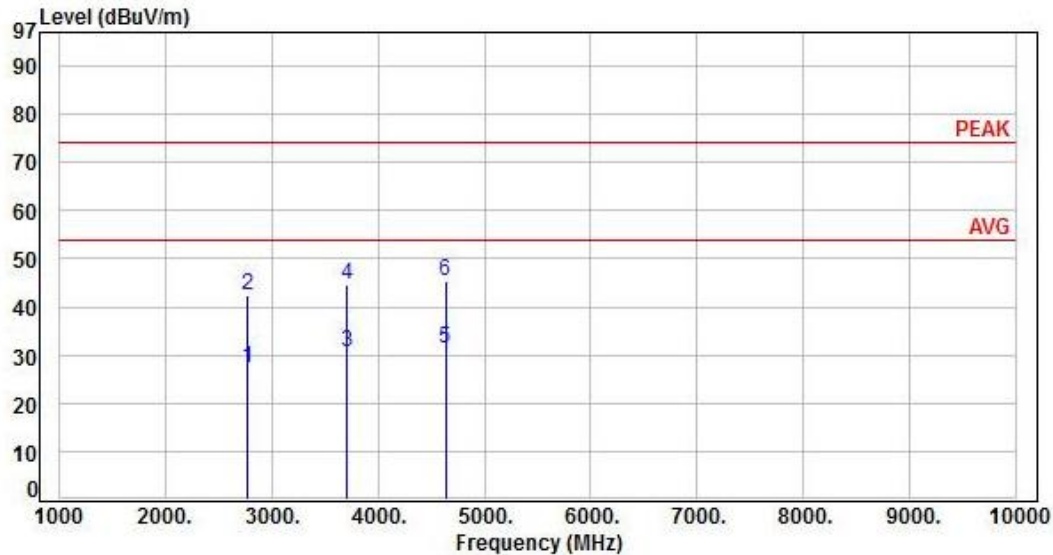
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH03		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2779.50	-2.59	29.95	27.36	54.00	-26.64	Average	100	292	P
2	2779.50	-2.59	44.98	42.39	74.00	-31.61	Peak	100	292	P
3	3706.00	1.49	29.09	30.58	54.00	-23.42	Average	100	273	P
4	3706.00	1.49	43.22	44.71	74.00	-29.29	Peak	100	273	P
5	4632.50	3.01	28.16	31.17	54.00	-22.83	Average	100	267	P
6	4632.50	3.01	42.25	45.26	74.00	-28.74	Peak	100	267	P

Note: Level=Reading+Factor

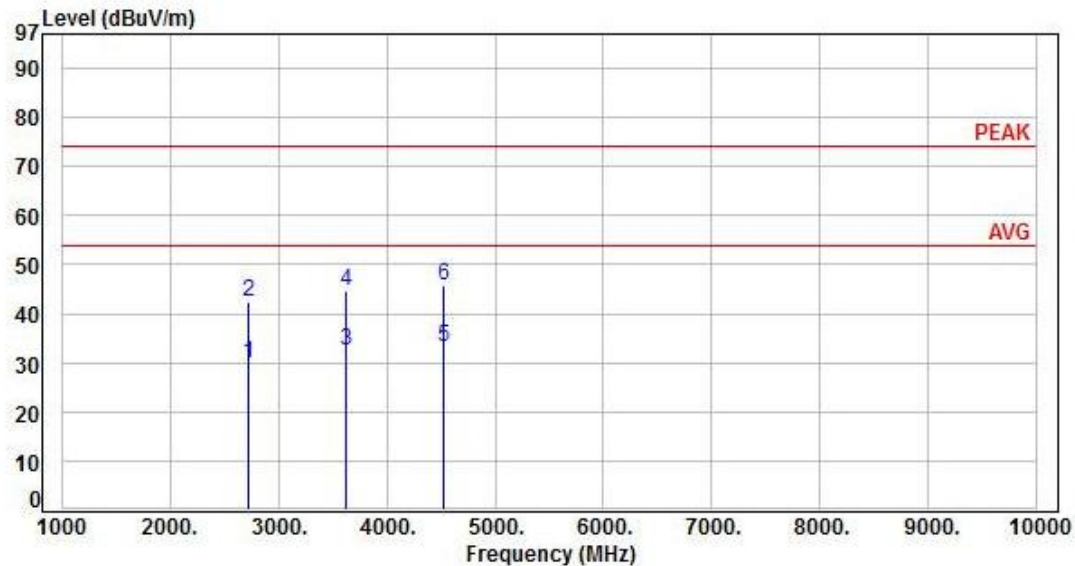
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2715.00	-2.65	32.39	29.74	54.00	-24.26	Average	100	265	P
2	2715.00	-2.65	45.15	42.50	74.00	-31.50	Peak	100	265	P
3	3620.00	0.78	31.83	32.61	54.00	-21.39	Average	100	279	P
4	3620.00	0.78	43.78	44.56	74.00	-29.44	Peak	100	279	P
5	4525.00	2.71	30.34	33.05	54.00	-20.95	Average	100	268	P
6	4525.00	2.71	43.14	45.85	74.00	-28.15	Peak	100	268	P

Note: Level=Reading+Factor

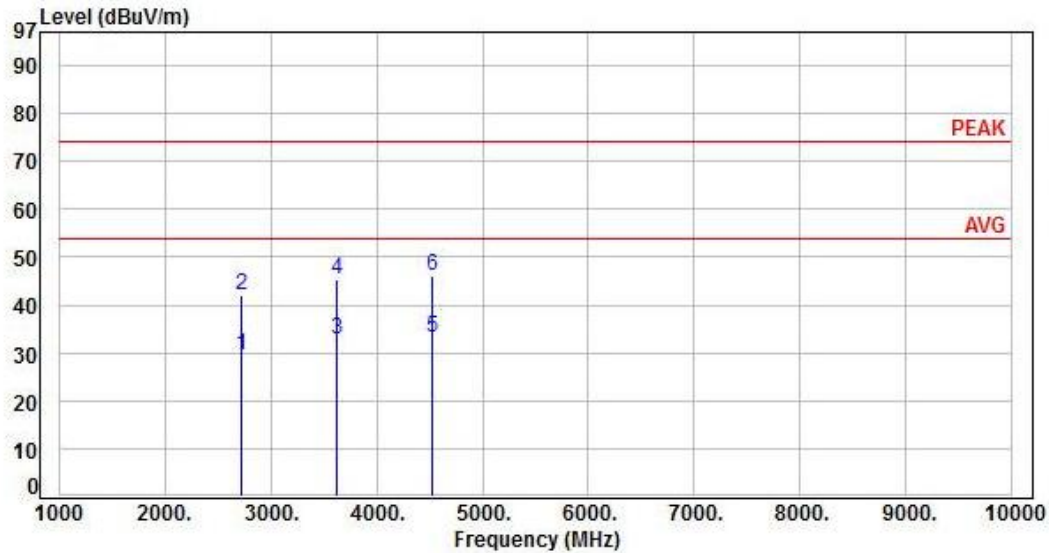
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2715.00	-2.65	32.25	29.60	54.00	-24.40	Average	100	89	P
2	2715.00	-2.65	44.78	42.13	74.00	-31.87	Peak	100	89	P
3	3620.00	0.78	32.10	32.88	54.00	-21.12	Average	100	86	P
4	3620.00	0.78	44.45	45.23	74.00	-28.77	Peak	100	86	P
5	4525.00	2.71	30.39	33.10	54.00	-20.90	Average	100	98	P
6	4525.00	2.71	43.55	46.26	74.00	-27.74	Peak	100	98	P

Note: Level=Reading+Factor

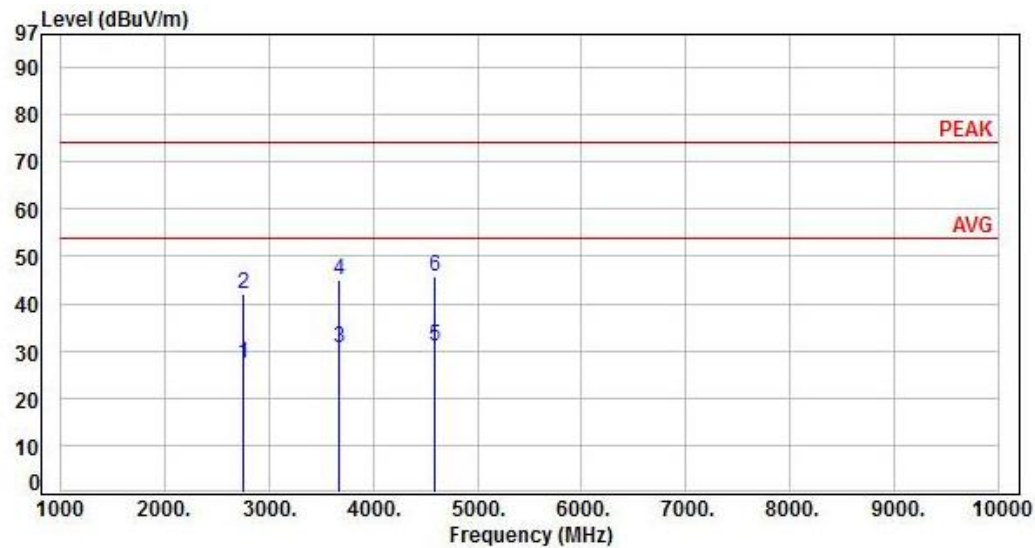
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2751.00	-2.67	30.08	27.41	54.00	-26.59	Average	100	167	P
2	2751.00	-2.67	44.60	41.93	74.00	-32.07	Peak	100	167	P
3	3668.00	1.08	29.36	30.44	54.00	-23.56	Average	100	219	P
4	3668.00	1.08	43.81	44.89	74.00	-29.11	Peak	100	219	P
5	4585.00	2.86	28.07	30.93	54.00	-23.07	Average	100	181	P
6	4585.00	2.86	42.74	45.60	74.00	-28.40	Peak	100	181	P

Note: Level=Reading+Factor

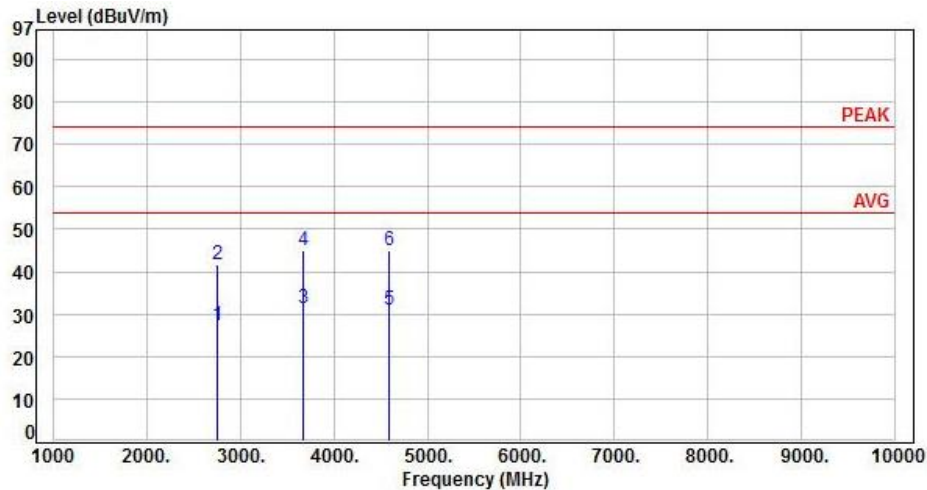
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2751.00	-2.67	29.98	27.31	54.00	-26.69	Average	100	119	P
2	2751.00	-2.67	44.45	41.78	74.00	-32.22	Peak	100	119	P
3	3668.00	1.08	30.16	31.24	54.00	-22.76	Average	100	237	P
4	3668.00	1.08	43.97	45.05	74.00	-28.95	Peak	100	237	P
5	4585.00	2.86	28.09	30.95	54.00	-23.05	Average	100	123	P
6	4585.00	2.86	42.28	45.14	74.00	-28.86	Peak	100	123	P

Note: Level=Reading+Factor

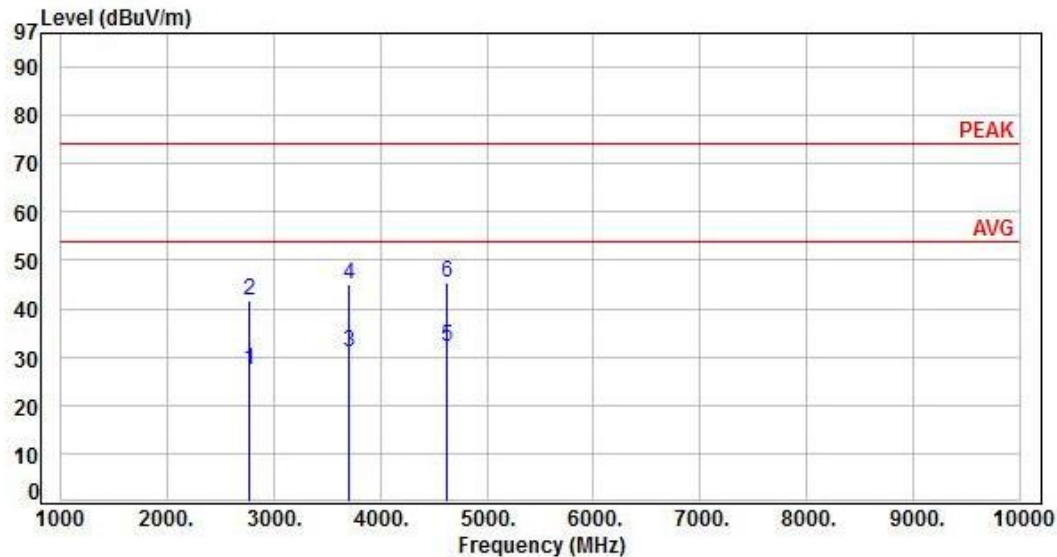
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2775.00	-2.60	30.02	27.42	54.00	-26.58	Average	100	258	P
2	2775.00	-2.60	44.37	41.77	74.00	-32.23	Peak	100	258	P
3	3700.00	1.44	29.41	30.85	54.00	-23.15	Average	100	231	P
4	3700.00	1.44	43.61	45.05	74.00	-28.95	Peak	100	231	P
5	4625.00	2.98	29.01	31.99	54.00	-22.01	Average	100	281	P
6	4625.00	2.98	42.55	45.53	74.00	-28.47	Peak	100	281	P

Note: Level=Reading+Factor

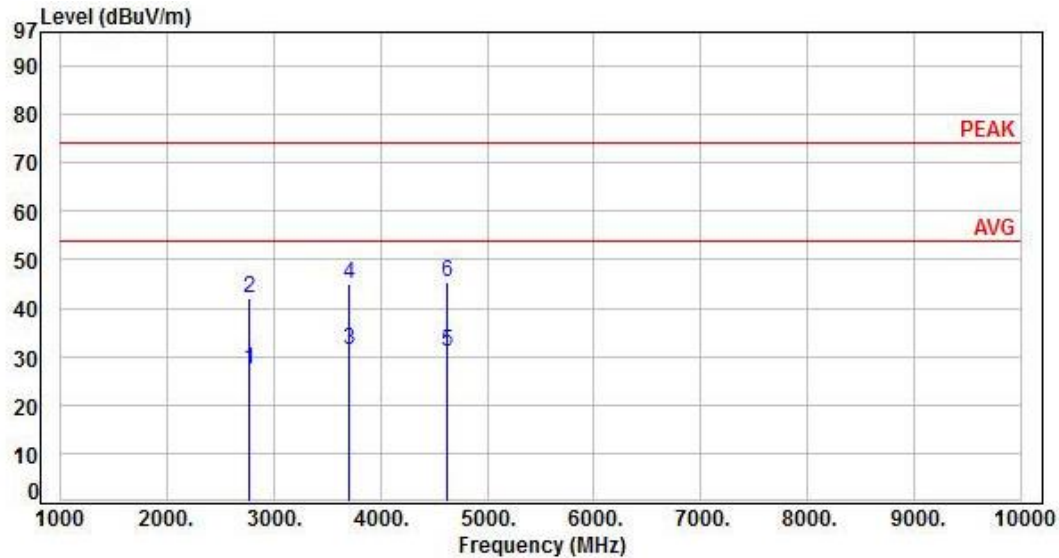
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH03		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2775.00	-2.60	30.01	27.41	54.00	-26.59	Average	100	266	P
2	2775.00	-2.60	44.50	41.90	74.00	-32.10	Peak	100	266	P
3	3700.00	1.44	29.91	31.35	54.00	-22.65	Average	100	204	P
4	3700.00	1.44	43.60	45.04	74.00	-28.96	Peak	100	204	P
5	4625.00	2.98	28.10	31.08	54.00	-22.92	Average	100	269	P
6	4625.00	2.98	42.30	45.28	74.00	-28.72	Peak	100	269	P

Note: Level=Reading+Factor

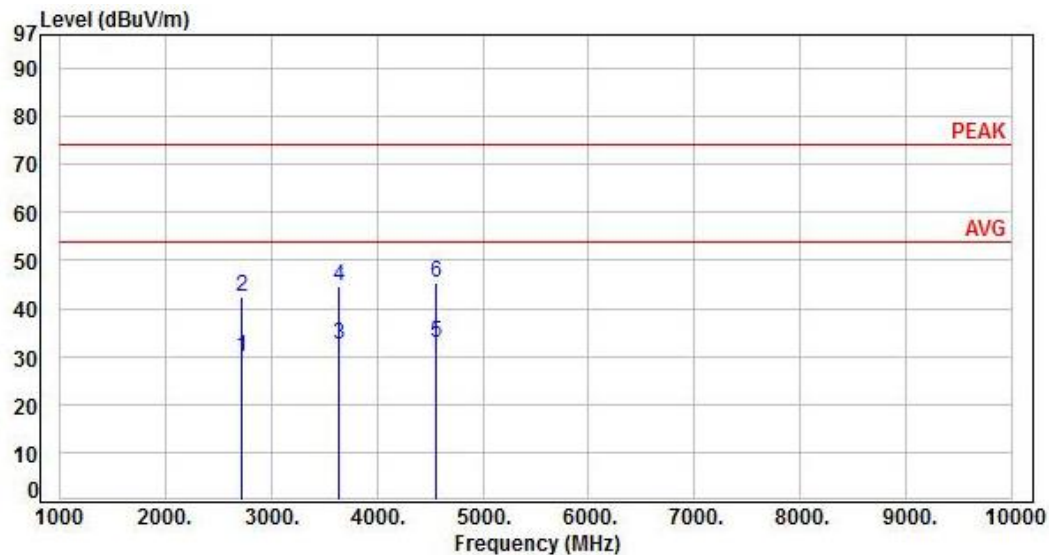
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2730.00	-2.66	32.41	29.75	54.00	-24.25	Average	100	268	P
2	2730.00	-2.66	45.08	42.42	74.00	-31.58	Peak	100	268	P
3	3640.00	0.85	31.57	32.42	54.00	-21.58	Average	100	273	P
4	3640.00	0.85	43.61	44.46	74.00	-29.54	Peak	100	273	P
5	4550.00	2.75	30.25	33.00	54.00	-21.00	Average	100	289	P
6	4550.00	2.75	42.52	45.27	74.00	-28.73	Peak	100	289	P

Note: Level=Reading+Factor

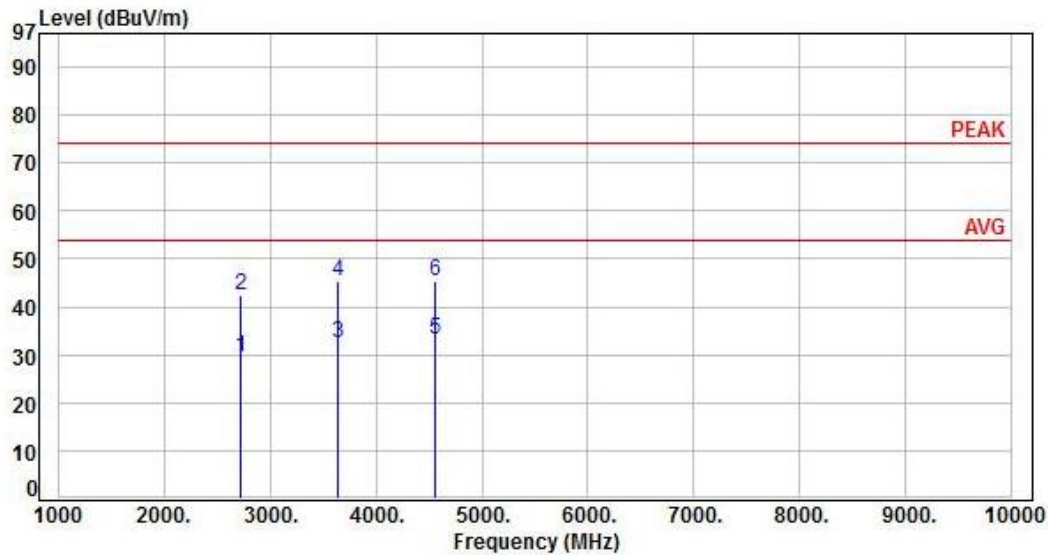
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2730.00	-2.66	32.34	29.68	54.00	-24.32	Average	100	94	P
2	2730.00	-2.66	45.19	42.53	74.00	-31.47	Peak	100	94	P
3	3640.00	0.85	31.79	32.64	54.00	-21.36	Average	100	78	P
4	3640.00	0.85	44.41	45.26	74.00	-28.74	Peak	100	78	P
5	4550.00	2.75	30.36	33.11	54.00	-20.89	Average	100	97	P
6	4550.00	2.75	42.74	45.49	74.00	-28.51	Peak	100	97	P

Note: Level=Reading+Factor

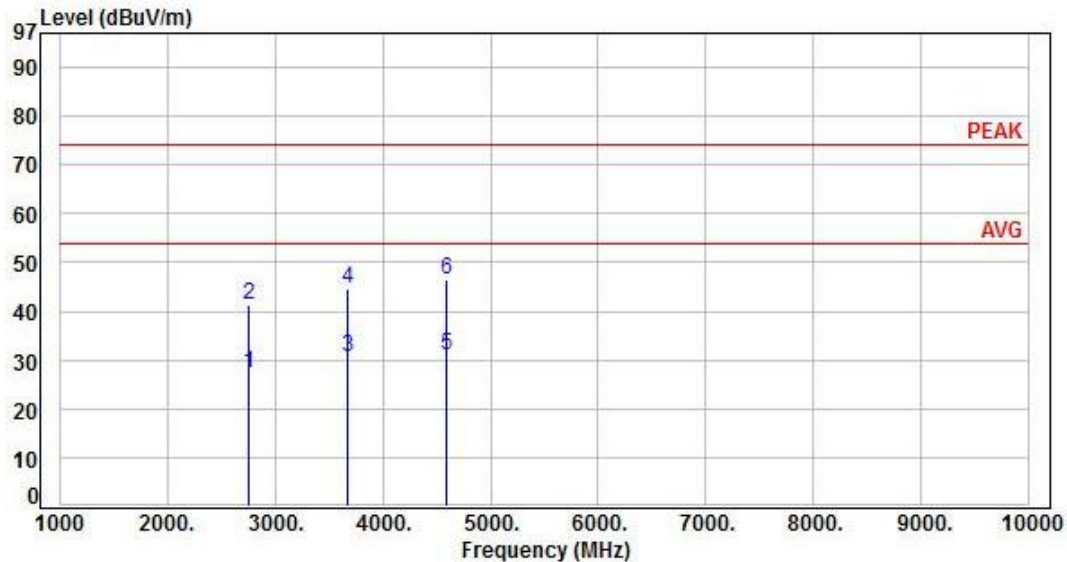
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH02		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2754.00	-2.66	30.05	27.39	54.00	-26.61	Average	100	195	P
2	2754.00	-2.66	43.91	41.25	74.00	-32.75	Peak	100	195	P
3	3672.00	1.13	29.35	30.48	54.00	-23.52	Average	100	243	P
4	3672.00	1.13	43.56	44.69	74.00	-29.31	Peak	100	243	P
5	4590.00	2.87	28.13	31.00	54.00	-23.00	Average	100	147	P
6	4590.00	2.87	43.69	46.56	74.00	-27.44	Peak	100	147	P

Note: Level=Reading+Factor

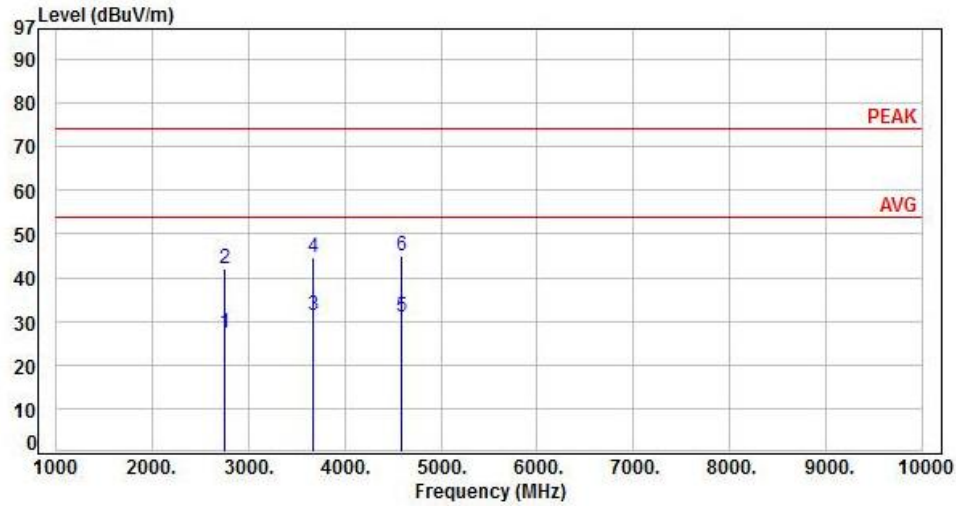
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH02		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2754.00	-2.66	30.03	27.37	54.00	-26.63	Average	100	323	P
2	2754.00	-2.66	44.74	42.08	74.00	-31.92	Peak	100	323	P
3	3672.00	1.13	30.08	31.21	54.00	-22.79	Average	100	286	P
4	3672.00	1.13	43.41	44.54	74.00	-29.46	Peak	100	286	P
5	4590.00	2.87	28.07	30.94	54.00	-23.06	Average	100	241	P
6	4590.00	2.87	42.11	44.98	74.00	-29.02	Peak	100	241	P

Note: Level=Reading+Factor

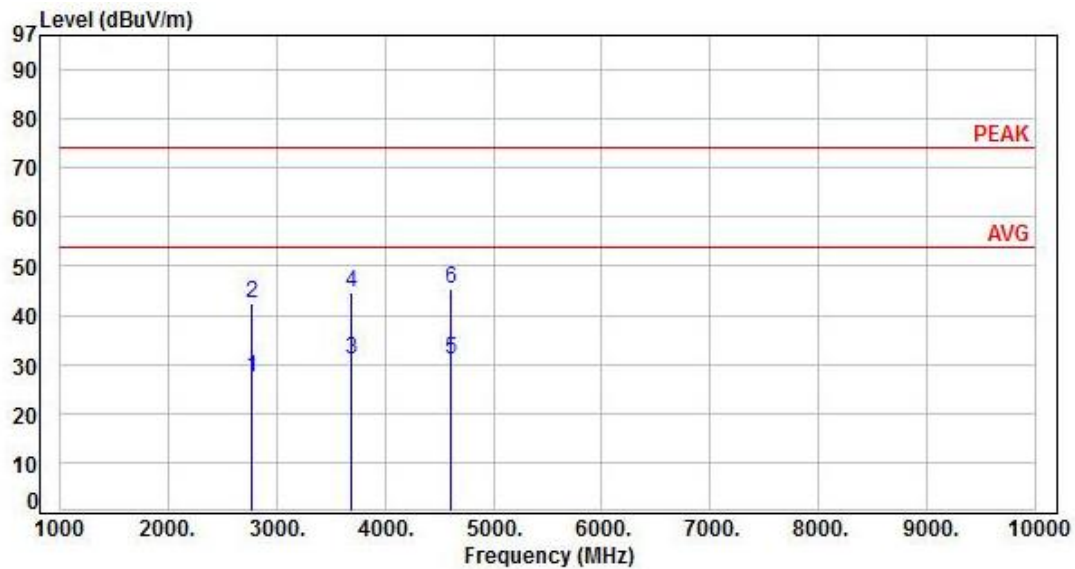
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH03		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2766.00	-2.63	30.06	27.43	54.00	-26.57	Average	100	329	P
2	2766.00	-2.63	44.87	42.24	74.00	-31.76	Peak	100	329	P
3	3688.00	1.30	29.56	30.86	54.00	-23.14	Average	100	257	P
4	3688.00	1.30	43.18	44.48	74.00	-29.52	Peak	100	257	P
5	4610.00	2.94	28.15	31.09	54.00	-22.91	Average	100	351	P
6	4610.00	2.94	42.49	45.43	74.00	-28.57	Peak	100	351	P

Note: Level=Reading+Factor

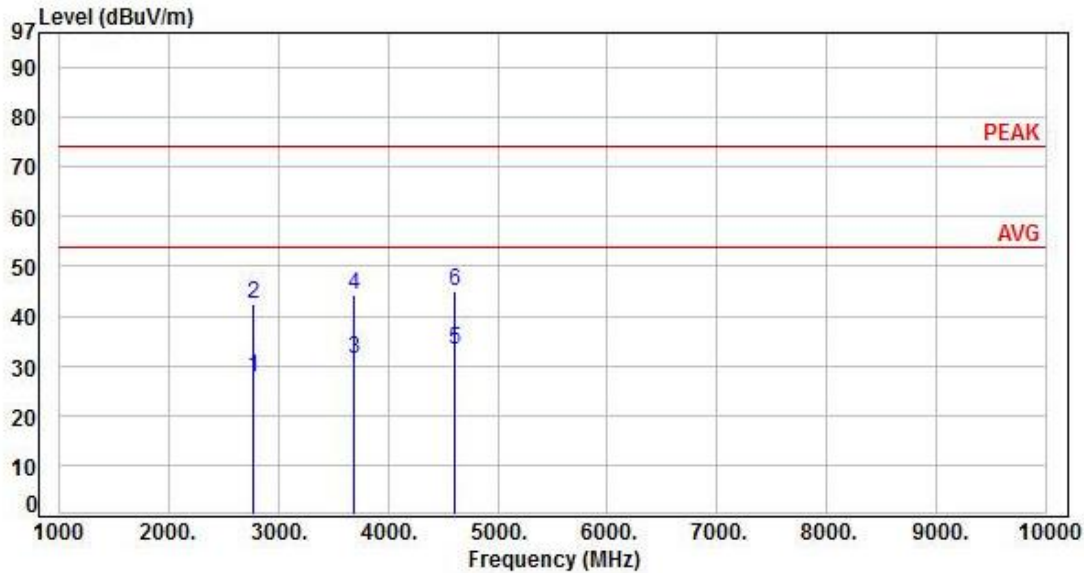
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



PIFA Antenna

Power	:	AC 120V / 60Hz	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH03		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2766.00	-2.63	30.13	27.50	54.00	-26.50	Average	100	163	P
2	2766.00	-2.63	44.87	42.24	74.00	-31.76	Peak	100	163	P
3	3688.00	1.30	30.18	31.48	54.00	-22.52	Average	100	311	P
4	3688.00	1.30	43.12	44.42	74.00	-29.58	Peak	100	311	P
5	4610.00	2.94	30.08	33.02	54.00	-20.98	Average	100	288	P
6	4610.00	2.94	42.16	45.10	74.00	-28.90	Peak	100	288	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

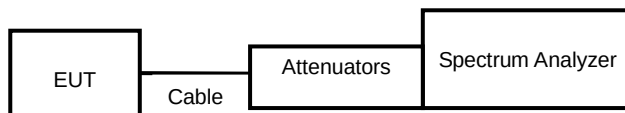
7.1 Test Limit

Below –30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout

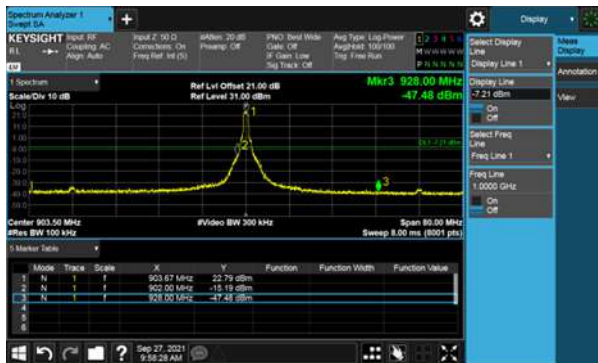


7.4 Test Result and Data

Note: Test plots refers to the following pages.



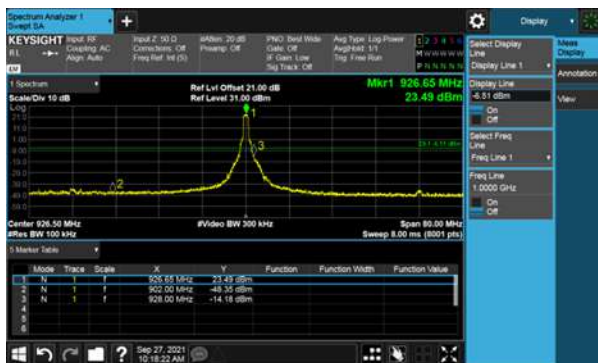
Modulation Type: OFDM (1Mbps)
CH01



CH02

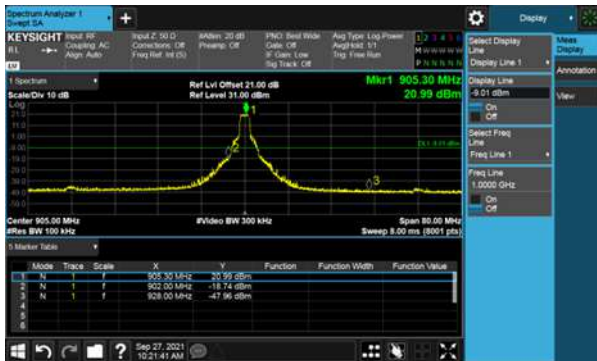


CH03





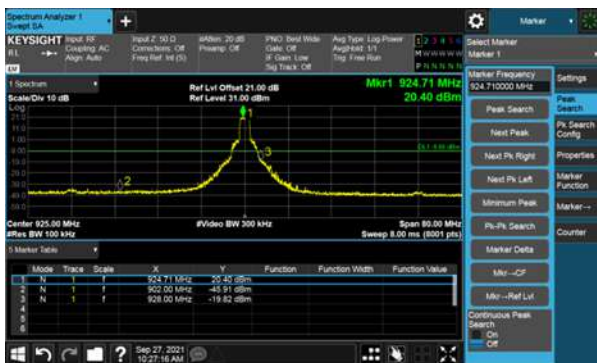
Modulation Type: OFDM (2Mbps)
CH01



CH02



CH03

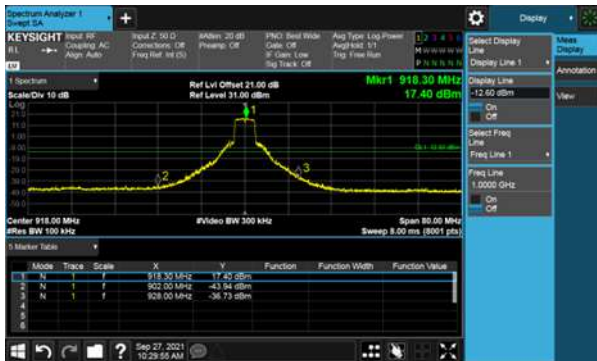




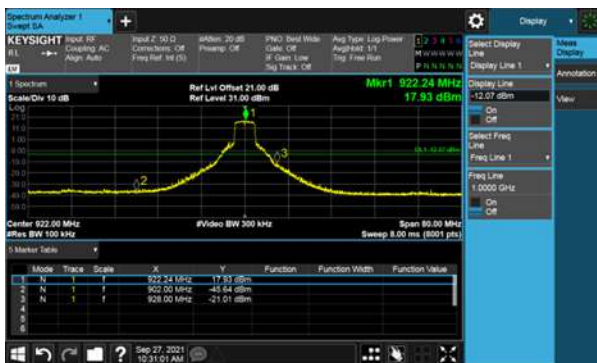
Modulation Type: OFDM (4Mbps)
CH01



CH02



CH03





8. On Time, Duty Cycle and Measurement methods

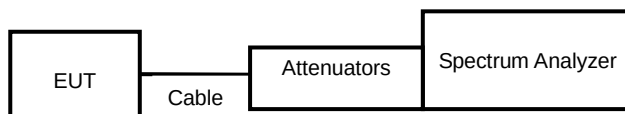
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

Modulation Mode	On Time (ms)	Period Time (ms)	Duty Cycle (%)	1/T Minimum VBW(Hz)	Duty Cycle correction Factor (dB)
OFDM(1M)	26.30	26.50	99.25%	38.02	0.03
OFDM(2M)	19.03	19.25	98.86%	52.55	0.05
OFDM(4M)	9.36	9.54	98.11%	106.84	0.08



Modulation Type: OFDM (1Mbps)



Modulation Type: OFDM (2Mbps)



Modulation Type: OFDM (4Mbps)





9. 6dB & 99% Bandwidth Measurement Data

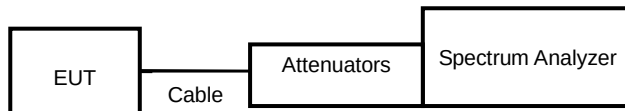
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout



**9.4 Test Result and Data (6dB Bandwidth)**

Modulation Type	Rate	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
OFDM(1M)	MCS10	903.5	0.846	0.5
	MCS10	915.5	0.837	0.5
	MCS10	926.5	0.840	0.5

Modulation Type	Rate	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
OFDM(2M)	MCS0	905	1.776	0.5
	MCS0	917	1.782	0.5
	MCS0	925	1.761	0.5

Modulation Type	Rate	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
OFDM(4M)	MCS0	910	3.642	0.5
	MCS0	918	3.654	0.5
	MCS0	922	3.642	0.5

**9.5 Test Result and Data (99% Bandwidth)**

Modulation Type	Rate	Channel Frequency (MHz)	Occupied Bandwidth (KHz)
OFDM(1M)	MCS10	903.5	883.960
	MCS10	915.5	878.730
	MCS10	926.5	873.830

Modulation Type	Rate	Channel Frequency (MHz)	Occupied Bandwidth (KHz)
OFDM(2M)	MCS0	905	1.814
	MCS0	917	1.811
	MCS0	925	1.815

Modulation Type	Rate	Channel Frequency (MHz)	Occupied Bandwidth (KHz)
OFDM(4M)	MCS0	910	3.659
	MCS0	918	3.648
	MCS0	922	3.661



6dB Bandwidth
Modulation Type: OFDM (1Mbps)
CH01



Modulation Type: OFDM (2Mbps)
CH01



CH02



CH02



CH03



CH03





99% Bandwidth
Modulation Type: OFDM (1Mbps)
CH01



Modulation Type: OFDM (2Mbps)
CH01



CH02



CH02



CH03



CH03





99% Bandwidth
Modulation Type: OFDM (4Mbps)
CH01



CH02



CH03





10. Maximum Average Output Power

10.1 Test Limit

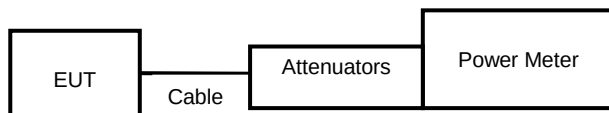
The Maximum Average Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout



**10.4 Test Result and Data**

Modulation Type	Rate	Setting	Channel Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)	Powe Limit (dBm)
OFDM(1M)	MCS10	24	903.5	23.74	236.59	30.00
	MCS10	24	915.5	23.54	225.94	30.00
	MCS10	24	926.5	23.37	217.27	30.00

Modulation Type	Rate	Setting	Channel Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)	Powe Limit (dBm)
OFDM(2M)	MCS0	24	905.0	23.56	226.99	30.00
	MCS0	24	917.0	23.35	216.27	30.00
	MCS0	24	925.0	23.45	221.31	30.00

Modulation Type	Rate	Setting	Channel Frequency (MHz)	AV Output Power (dBm)	AV Output Power (mW)	Powe Limit (dBm)
OFDM(4M)	MCS0	24	910.0	23.62	230.14	30.00
	MCS0	24	918.0	22.94	196.79	30.00
	MCS0	24	922.0	23.46	221.82	30.00



11. Power Spectral Density

11.1 Test Limit

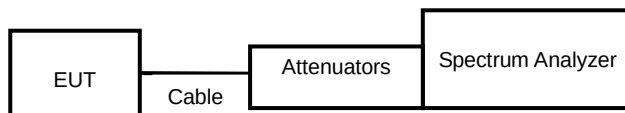
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

Reference to KDB558074 DTS Meas Guidance v05r02 D01

11.3 Test Setup Layout



**11.4 Test Result and Data**

Modulation Type	Rate	Channel Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth (dBm)	Limit (dBm)
OFDM(1M)	24	903.5	2.36	8
	24	915.5	2.29	8
	24	926.5	2.49	8

Modulation Type	Rate	Channel Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth (dBm)	Limit (dBm)
OFDM(2M)	MCS0	905	(1.44)	8
	MCS0	917	(1.17)	8
	MCS0	925	(1.13)	8

Modulation Type	Rate	Channel Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth (dBm)	Limit (dBm)
OFDM(4M)	MCS0	910	(4.04)	8
	MCS0	918	(4.50)	8
	MCS0	922	(3.91)	8



Modulation Type: OFDM (1Mbps)
CH01



Modulation Type: OFDM (2Mbps)
CH01



CH02



CH02



CH03



CH03





Modulation Type: OFDM (4Mbps)
CH01



CH02



CH03

