FCC RADIO TEST REPORT

Applicant	:	Altai Technologies Limited
Address	:	Unit 209, 2/F, Lakeside 2, 10 Science Park West Avenue, HK Science Park, Shatin Hong Kong
Equipment	:	Outdoor 2 x 2 Wi-Fi 6 Access Point
Model No.	:	AX600-X, AX600-S
Trade Name	:	ALTAI
FCC ID	:	UCC-AX600

I HEREBY CERTIFY THAT :

The sample was received on Apr. 25, 2023 and the testing was completed on Jun. 15, 2023 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:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory

Contents

History of this test report

Report No.	Issued Date	Description
23040191-TRFCC01	Jun. 26, 2023	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.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(23040191-TEFV01).

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	WLAN:802.11b/g/n/(Turbo QAM)/ax: 2400-2483.5MHz 5GHz:802.11a/n/ac/ax: 5150-5250MHz, 5725-5850MHz
Center Frequency Range	WLAN:802.11b/g/n/(Turbo QAM)/ax: 2412-2462MHz 5GHz :802.11a/n/ac/ax: 5180-5240MHz, 5745-5825MHz
Modulation Type	WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM
Modulation Technology	DSSS, OFDM,OFDMA
Data Rate	WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 MCS0 – MCS9, VHT20/40(TurboQAM) 802.11ax: MCS0 – MCS11,HE20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80 802.11ax: MCS0 – MCS11, HE20/40/80
Antenna Type	Omni Antenna Sector Antenna ALI22 Antenna
Antenna Gain	Omni(With cable loss) :2400-2500MHz:ANT A: 7.18dBi (Black), ANT B:7.49dBi (Gray) Sector(With cable loss) :2400-2500MHz: :ANT A:13.82dBi (Black), ANT B 14.13dBi (Gray) ALI22(With cable loss) :2400-2500MHz: :ANT A:13.88dBi, ANT B:13.82dBi Omni(With cable loss) :5150-5250MHz: ANT C:5.26dBi (Blue), ANT D:5.19dBi (White) Omni(With cable loss) :5725-5850MHz: ANT C: 5.26dBi (Blue), ANT D:5.19dBi (White) Sector(With cable loss):5150-5250MHz: ANT C:11.11dBi (Blue), ANT D:11.04dBi (White) Sector(With cable loss):5725-5850MHz: ANT C: 11.11dBi (Blue), ANT D:11.04dBi (White) ALI22(With cable loss) 5150-5250MHz: ANT C:12.24dBi, ANT D:12.01dBi ALI22(With cable loss) :5725-5850MHz: ANT C:12.24dBi, ANT D:12.01dBi

Note:
1. WLAN 2.4G 802.11n Support TurboQAM.
2. EUT support TPC Function.
3. WLAN 2.4GHz & WLAN 5GHz 802.11ax support beamforming Function.
4. For more details, please refer to the User's manual of the EUT.

Difference description:

Model No.	Remark
AX600-X	External antenna
AX600-S	Internal antenna

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, VHT20, 802.11ax HE20 (2412MHz-2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
***01**	**2412**	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	***11**	**2462**
***06**	**2437**	---	---

802.11n HT40, VHT40, 802.11ax HE40 (2422MHz-2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
***03**	**2422**	***09**	**2452**
04	2427	---	---
05	2432	---	---
***06**	**2437**	---	---

Note: Channels remarked * are selected to perform test.

2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.

b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.

c. An executive program, " QSPR V 5.0-00202" under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)

d. An executive program, " Command" under Windows OS system was executed to transmit and receive data via WLAN. (BeamForming)

e. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE, Non BeamForming
2	802.11g (6Mbps) , Power from PoE ,Non BeamForming
3	802.11ax HE20 (7.3Mbps) , Power from PoE ,Non BeamForming
4	802.11ax HE40 (14.6Mbps) , Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) , Power from PoE , BeamForming
6	802.11ax HE40 (14.6Mbps) , Power from PoE , BeamForming
caused "Test Mode 1,5" generated the worst case, it was reported as the final data.	
Radiation Emissions(BELOW 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE, Non BeamForming
2	802.11g (6Mbps) , Power from PoE ,Non BeamForming
3	802.11ax HE20 (7.3Mbps) , Power from PoE ,Non BeamForming
4	802.11ax HE40 (14.6Mbps) , Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) , Power from PoE , BeamForming
6	802.11ax HE40 (14.6Mbps) , Power from PoE , BeamForming
caused "Test Mode 1,5" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps) , Power from PoE, Non BeamForming
2	802.11g (6Mbps) , Power from PoE ,Non BeamForming
3	802.11ax HE20 (7.3Mbps) , Power from PoE ,Non BeamForming
4	802.11ax HE40 (14.6Mbps) , Power from PoE ,Non BeamForming
5	802.11ax HE20 (7.3Mbps) , Power from PoE , BeamForming
6	802.11ax HE40 (14.6Mbps) , Power from PoE , BeamForming
caused "Test Mode 1~6" generated the worst case, they were reported as the final data.	

Note:1.There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.
For AC Power Line Conducted Emission , AC 240V / 60Hz is worst case.
For Radiation Emissions (BELOW 1GHz), AC 240V / 60Hz is worst case.(Non BeamForming)
For Radiation Emissions (BELOW 1GHz), AC 120V / 60Hz is worst case.(BeamForming)
2.The EUT has three types of antenna(Omni and Sector and ALI22).
AC Power Line Conducted Emission & Radiation Emissions(BELOW 1GHz) & Duty Cycle Conducted Spurious Emission & 6dB Bandwidth.
After engineering evaluation, Omni are worst case, hence, are used at test report.

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX
802.11n HT20(TurboQAM)	2TX
802.11n HT40(TurboQAM)	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX

2.4 Description of Test System

Non BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	UBIQUITI	GP-H480-050G	N/A	0.6m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	PowerDsine	PD-9001GR	N/A	N/A
RJ45 Cable	N/A	N/A	15m / 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
RJ45 Cable*2	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A

BeamForming

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
RJ45 Cable*4	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE*2	UBIQUITI	GP-H480-050G	N/A	0.6m / NS
Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable*3	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	PowerDsine	PD-9001GR	N/A	N/A
POE	Bluewave	JS-100GT	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / 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
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
RJ45 Cable*4	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
POE	Bluewave	JS-100GT	N/A	N/A
POE	PowerDsine	PD-9001GR	N/A	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.	

Non BeamForming
Omni Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/15~2023/5/20	24.9~27.5℃ / 51~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/15~2023/5/29	22~27℃ / 30~35%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/06/15	23℃ / 53%	Leon Huang

Sector Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/05/24	26℃ / 55%	Leon Huang
Radiated Emissions	3M02-NK	2023/5/20~2023/5/22	25~27℃ / 33~39%	Leon Huang

ALI22 Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/24~2023/5/26	26.7℃ / 55~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/19	22℃ / 33%	Leon Huang

BeamForming

Omni Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/20~2023/5/23	26.8~26.9℃ / 46~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/18	26℃ / 39%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2023/06/15	23℃ / 53%	Leon Huang

Sector Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/05/25	27.8℃ / 52%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/23	23℃ / 39%	Leon Huang

ALI22 Antenna

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2023/5/23~2023/5/26	26.7~26.8℃ / 46~59%	Leon Huang
Radiated Emissions	3M02-NK	2023/05/22	27℃ / 33%	Leon Huang

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)	±3.28dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±5.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±7.6%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%

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	2022/11/18	2023/11/17
Active Loop Antenna	Schwarzbeck	FMZB 1513	414	2023/02/03	2024/02/02
Horn Antenna	EMCO	3115	31589	2023/03/23	2024/03/22
Horn Antenna	EMCO	3116	31970	2023/03/03	2024/03/02
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2022/07/05	2023/07/04
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2022/08/19	2023/08/18
Preamplifier	Agilent	8449B	3008A01954	2023/03/08	2024/03/07
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2022/11/11	2023/11/10
Preamplifier	EM Electronics corp.	EM330	60659	2023/03/10	2024/03/09
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2022/07/27	2023/07/26
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2023/02/25	2024/02/24
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2023/03/07	2024/03/06
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2023/03/07	2024/03/06
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2023/03/07	2024/03/06
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2023/03/07	2024/03/06
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2023/03/07	2024/03/06
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS503 14	2023/03/07	2024/03/06
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2022/06/28	2023/06/27
Cable-3m(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS300 314	2023/03/07	2024/03/06
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**
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2022/11/29	2023/11/28
Power Meter	Anritsu	ML2495A	1224005	2023/03/07	2024/03/06
Power Sensor	Anritsu	MA2411B	1207295	2023/03/07	2024/03/06
Attenuator	KEYSIGHT	8491B	MY39250703	2023/03/08	2024/03/07

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	**Manufacturer**	**Model No**	**Serial No**	**Calibration Date**	**Valid Date**
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2022/07/05	2023/07/04
TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	102185	2022/08/24	2023/08/23
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2022/07/27	2023/07/26
E3	AUDIX	v8.2014-8-6	RK-000536	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	Omni Antenna Sector Antenna ALI22 Antenna
Antenna Gain	Omni(With cable loss) :2400-2500MHz:ANT A: 7.18dBi (Black), ANT B:7.49dBi (Gray) Sector(With cable loss) :2400-2500MHz: :ANT A:13.82dBi (Black), ANT B 14.13dBi (Gray) ALI22(With cable loss) :2400-2500MHz: :ANT A:13.88dBi, ANT B:13.82dBi

(Non-Beamforming)

Omni Antenna
2400-2500MHz
For Power directional gain= G_{ant}= 7.49 dBi
For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$]
= 10.35 dBi
*MIMO type: Cyclic Delay Diversity (CDD) mode.

Sector Antenna
2400-2500MHz
For Power directional gain= G_{ant}= 14.13 dBi
For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$]
= 16.99 dBi
*MIMO type: Cyclic Delay Diversity (CDD) mode.

ALI22 Antenna
2400-2500MHz
For Power directional gain= G_{ant}= 13.88 dBi
For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$]
= 16.86 dBi
*MIMO type: Cyclic Delay Diversity (CDD) mode.

(Beamforming)

Omni Antenna
2400-2500MHz
1. For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$]= 10.35 dBi
2. For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 10.35 dBi

Sector Antenna
2400-2500MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$]= 16.99 dBi
For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 16.99 dBi

ALI22 Antenna
2400-2500MHz
For Power directional gain= 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] = 16.86 dBi
For PSD directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}$] =16.86 dBi

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.

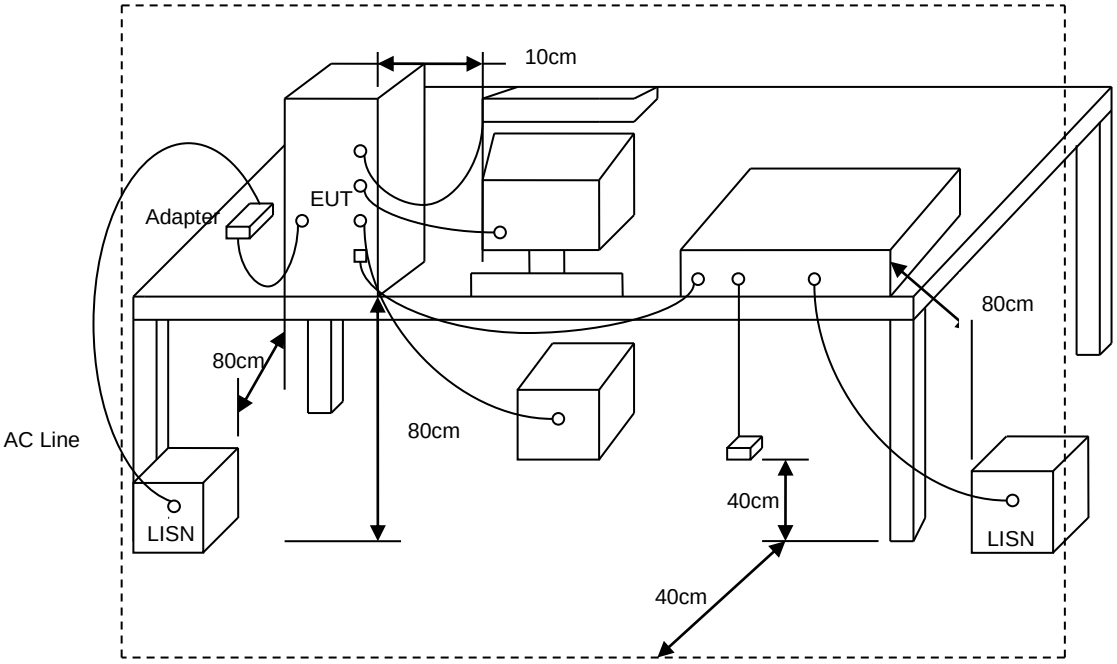
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

5.2 Test Procedures

a. 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.
b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
c. All the support units are connecting to the other LISN.
d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
f. Both sides of AC line were checked for maximum conducted interference.
g. The frequency range from 150 kHz to 30 MHz was searched.
h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

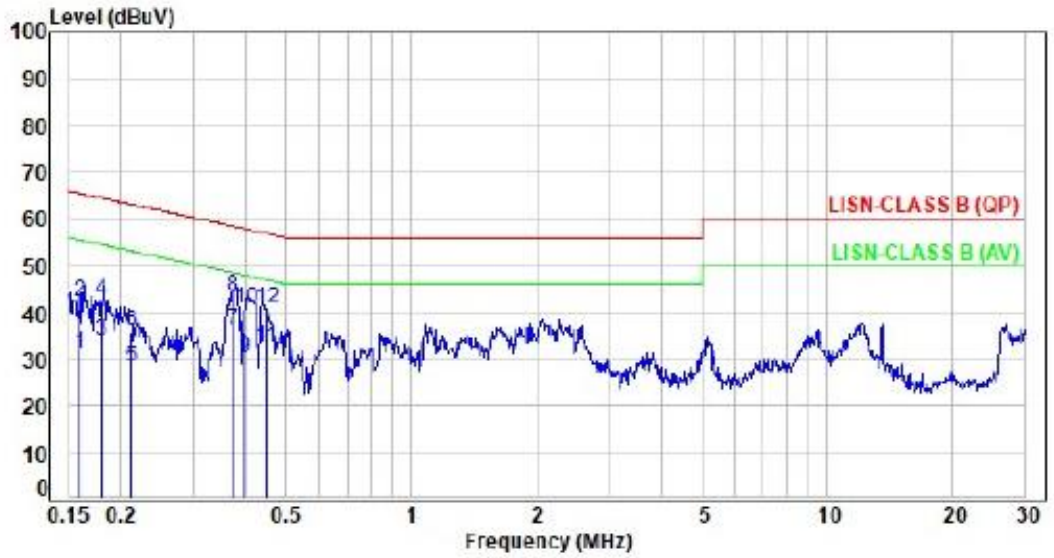
5.3 Typical Test Setup



5.4 Test Result and Data

Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1		:	

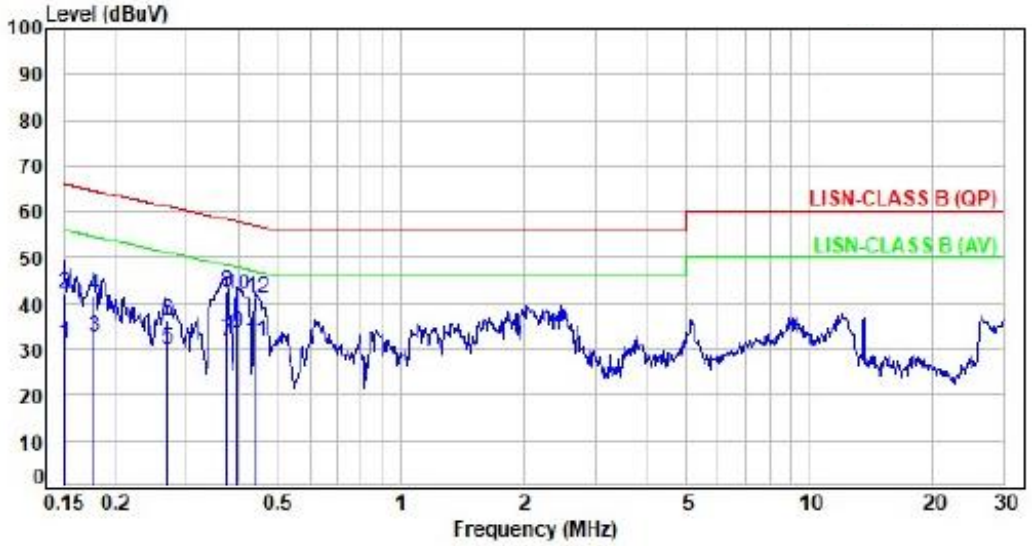


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.62	21.43	31.05	55.50	-24.45	Average	P
2	0.16	9.62	32.53	42.15	65.50	-23.35	QP	P
3	0.18	9.61	24.05	33.66	54.52	-20.86	Average	P
4	0.18	9.61	32.85	42.46	64.52	-22.06	QP	P
5	0.21	9.61	18.47	28.08	53.11	-25.03	Average	P
6	0.21	9.61	26.31	35.92	63.11	-27.19	QP	P
7	0.37	9.63	26.39	36.02	48.49	-12.47	Average	P
8	0.37	9.63	33.84	43.47	58.49	-15.02	QP	P
9	0.40	9.63	20.50	30.13	47.92	-17.79	Average	P
10	0.40	9.63	30.87	40.50	57.92	-17.42	QP	P
11	0.45	9.63	22.57	32.20	46.92	-14.72	Average	P
12	0.45	9.63	30.98	40.61	56.92	-16.31	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1		:	

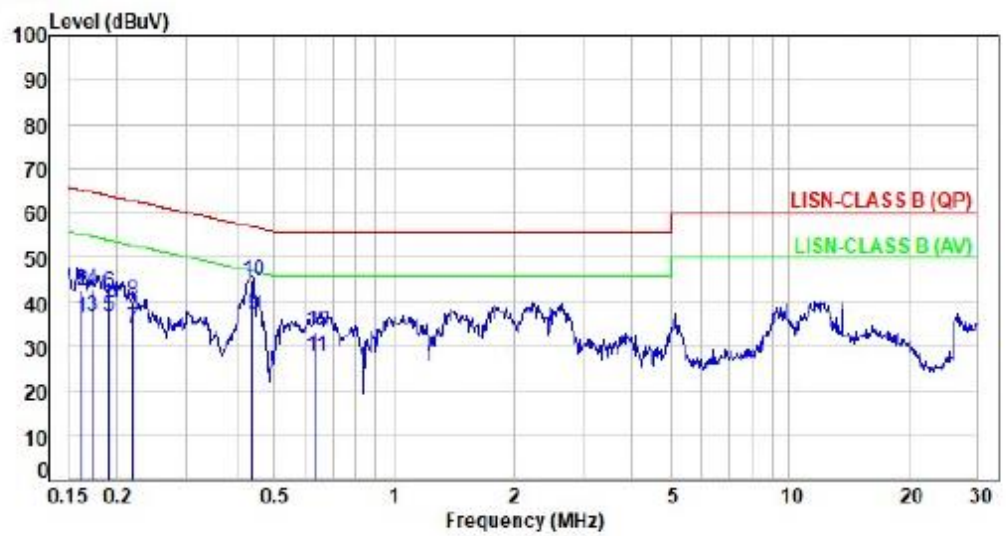


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.63	21.61	31.24	55.94	-24.70	Average	P
2	0.15	9.63	32.43	42.06	65.94	-23.88	QP	P
3	0.18	9.62	23.10	32.72	54.57	-21.85	Average	P
4	0.18	9.62	32.31	41.93	64.57	-22.64	QP	P
5	0.27	9.63	20.44	30.07	51.14	-21.07	Average	P
6	0.27	9.63	26.57	36.20	61.14	-24.94	QP	P
7	0.37	9.63	22.05	31.68	48.39	-16.71	Average	P
8	0.37	9.63	32.84	42.47	58.39	-15.92	QP	P
9	0.40	9.63	23.76	33.39	47.87	-14.48	Average	P
10	0.40	9.63	32.10	41.73	57.87	-16.14	QP	P
11	0.44	9.63	21.84	31.47	47.01	-15.54	Average	P
12	0.44	9.63	31.32	40.95	57.01	-16.06	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 5		:	

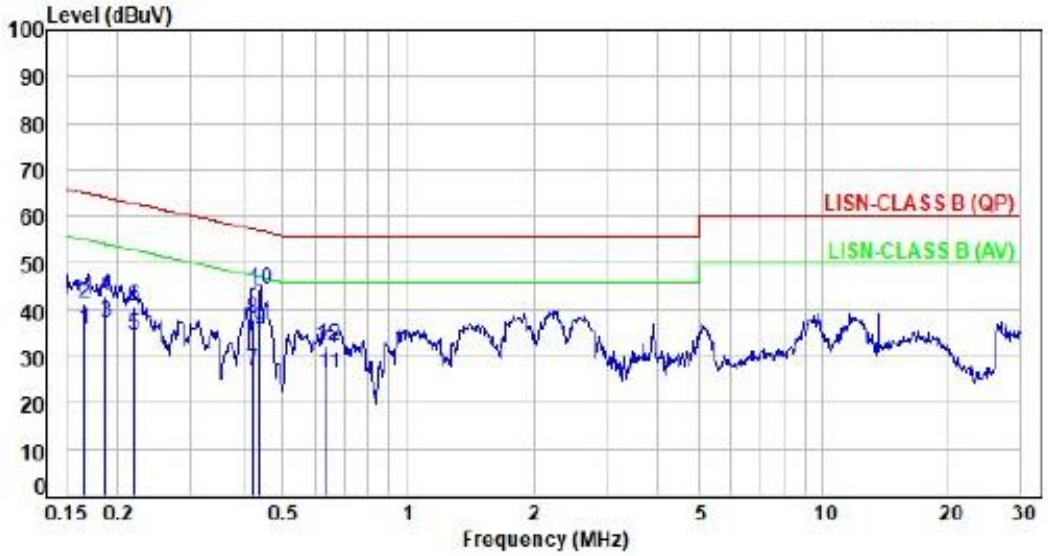


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.62	26.72	36.34	55.36	-19.02	Average	P
2	0.16	9.62	32.88	42.50	65.36	-22.86	QP	P
3	0.17	9.62	27.43	37.05	54.83	-17.78	Average	P
4	0.17	9.62	33.48	43.10	64.83	-21.73	QP	P
5	0.19	9.61	27.38	36.99	54.06	-17.07	Average	P
6	0.19	9.61	32.62	42.23	64.06	-21.83	QP	P
7	0.22	9.61	24.72	34.33	52.88	-18.55	Average	P
8	0.22	9.61	30.56	40.17	62.88	-22.71	QP	P
9	0.44	9.63	27.50	37.13	47.08	-9.95	Average	P
10	0.44	9.63	35.20	44.83	57.08	-12.25	QP	P
11	0.64	9.64	18.21	27.85	46.00	-18.15	Average	P
12	0.64	9.64	23.82	33.46	56.00	-22.54	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss

BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 5		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.63	26.16	35.79	55.20	-19.41	Average	P
2	0.17	9.63	31.98	41.61	65.20	-23.59	QP	P
3	0.19	9.62	27.56	37.18	54.19	-17.01	Average	P
4	0.19	9.62	33.52	43.14	64.19	-21.05	QP	P
5	0.22	9.62	24.99	34.61	52.90	-18.29	Average	P
6	0.22	9.62	31.16	40.78	62.90	-22.12	QP	P
7	0.42	9.63	17.39	27.02	47.45	-20.43	Average	P
8	0.42	9.63	28.27	37.90	57.45	-19.55	QP	P
9	0.44	9.63	26.07	35.70	47.07	-11.37	Average	P
10	0.44	9.63	34.77	44.40	57.07	-12.67	QP	P
11	0.64	9.63	16.62	26.25	46.00	-19.75	Average	P
12	0.64	9.63	22.75	32.38	56.00	-23.62	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:

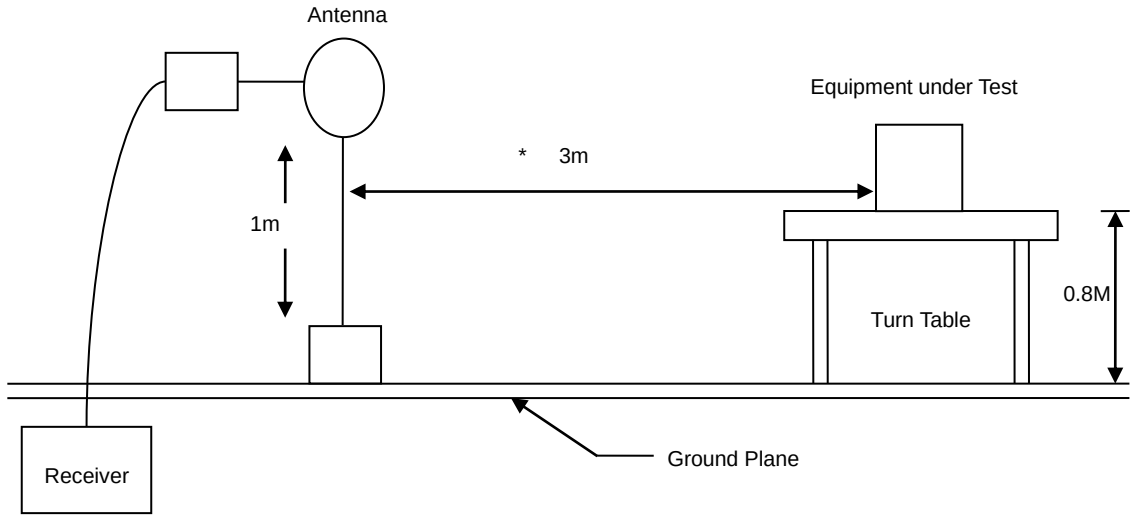
1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.

Non BeamForming
Sector Antenna (X-AXIS is the worst.)
Omni Antenna &ALI22 Antenna (Y-AXIS is the worst.)
BeamForming
Omni Antenna & ALI22 Antenna & Sector Antenna (Y-AXIS is the worst.)

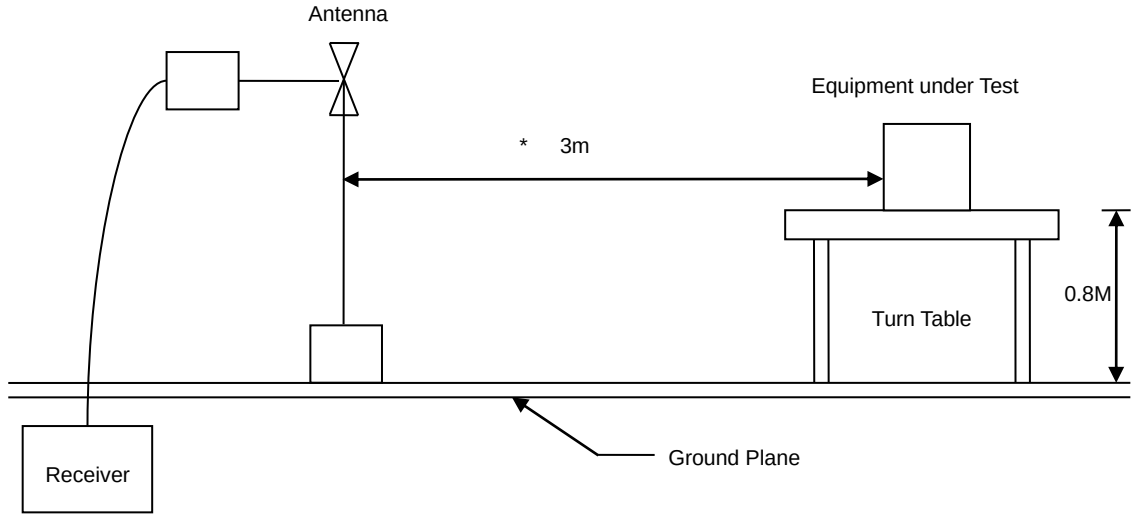
2.Due to the test software function limit the operation band setting(200dBuV/m).
There's no corresponding limitation in the actual test item.

6.3 Typical Test Setup

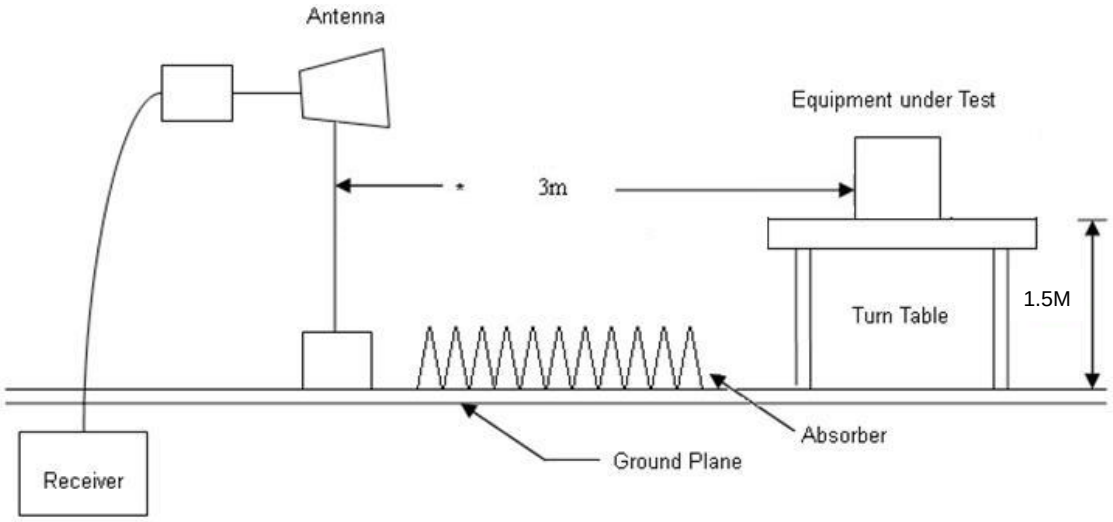
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



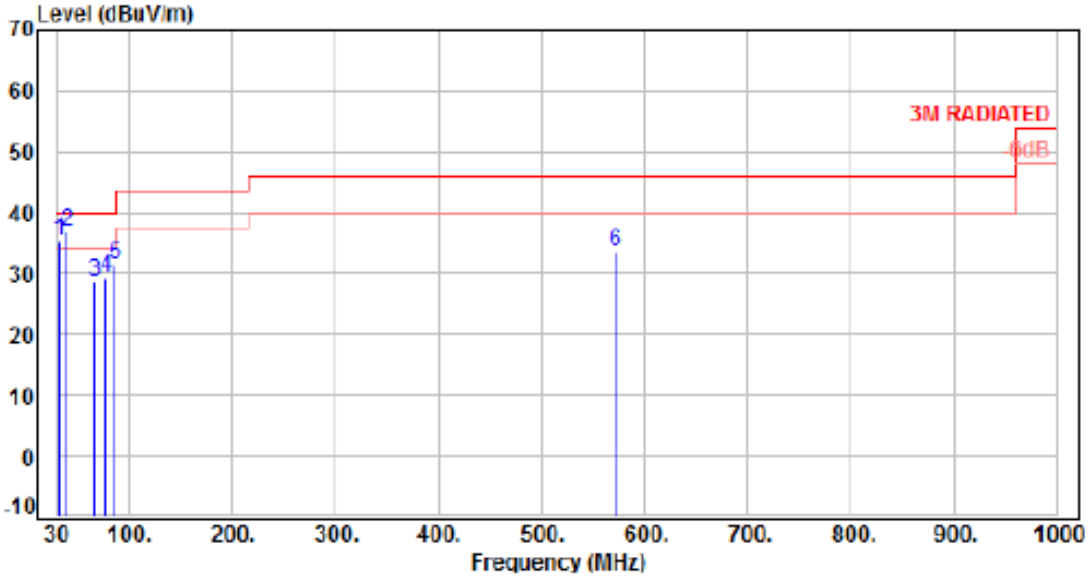
6.4 Test Result and Data (9KHz ~ 30MHz)

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

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

Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	

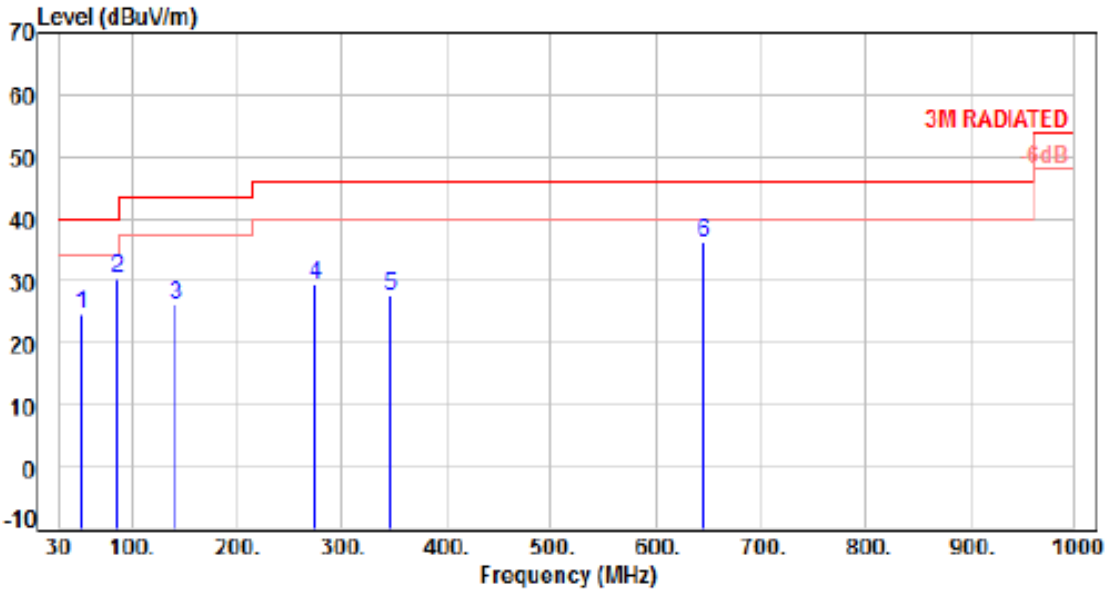


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-12.27	47.62	35.35	40.00	-4.65	Peak	400	360	P
2	39.70	-11.34	48.08	36.74	40.00	-3.26	Peak	400	360	P
3	66.86	-12.81	41.56	28.75	40.00	-11.25	Peak	400	360	P
4	76.56	-14.68	44.03	29.35	40.00	-10.65	Peak	400	360	P
5	86.26	-16.87	48.26	31.39	40.00	-8.61	Peak	400	360	P
6	571.26	-3.56	37.03	33.47	46.00	-12.53	Peak	400	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming

Power	:	From PoE (240V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1		:	

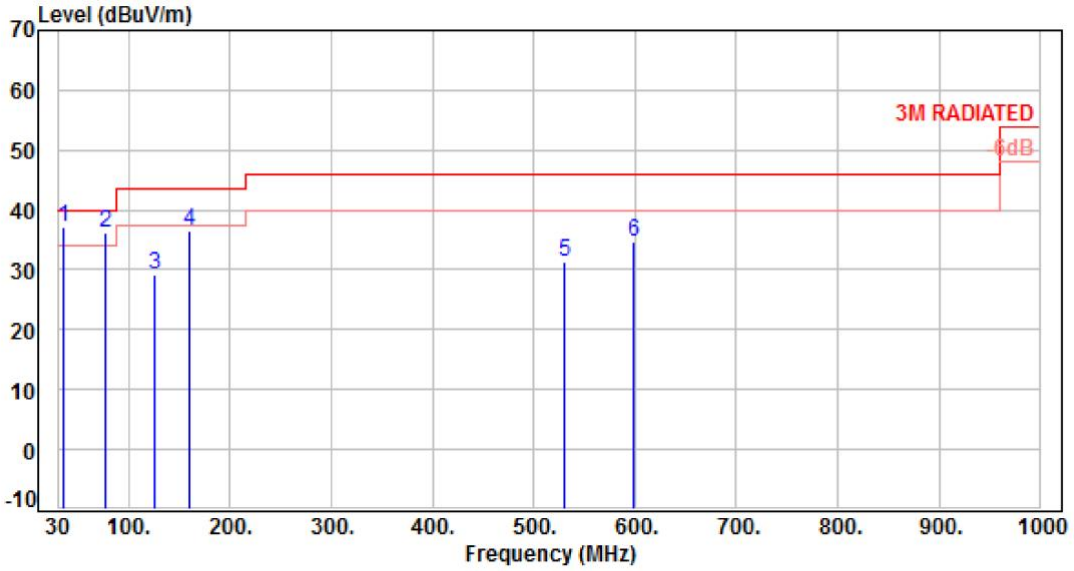


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	51.34	-10.53	35.12	24.59	40.00	-15.41	Peak	400	360	P
2	86.26	-16.87	47.38	30.51	40.00	-9.49	Peak	400	360	P
3	142.52	-11.06	37.20	26.14	43.50	-17.36	Peak	400	360	P
4	274.44	-10.90	40.45	29.55	46.00	-16.45	Peak	400	360	P
5	346.22	-8.92	36.53	27.61	46.00	-18.39	Peak	400	360	P
6	644.98	-1.94	38.29	36.35	46.00	-9.65	Peak	400	360	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5		:	

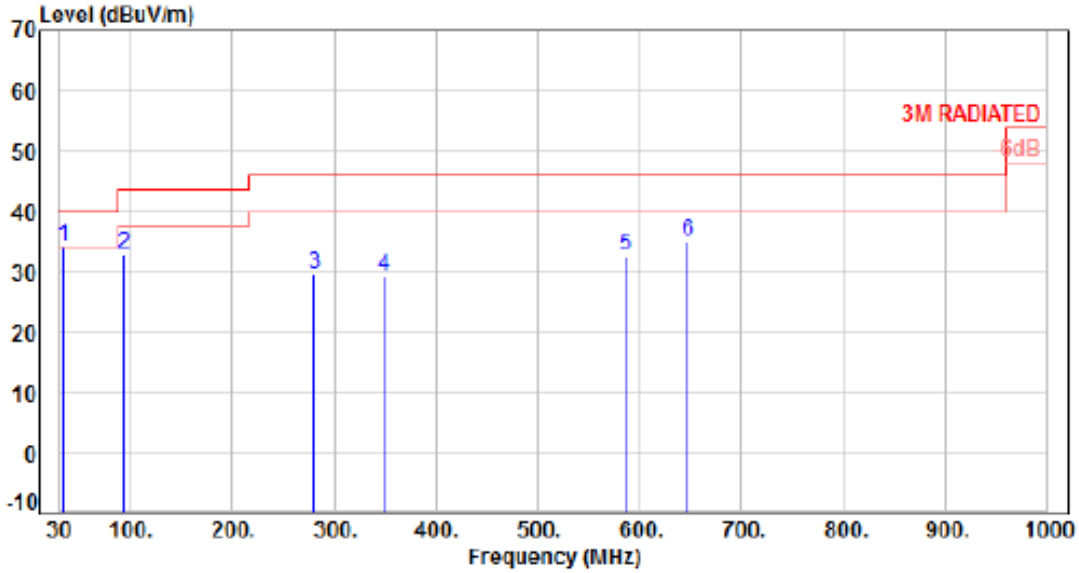


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	35.33	-11.95	49.09	37.14	40.00	-2.86	QP	100	183	P
2	76.56	-14.68	50.95	36.27	40.00	-3.73	Peak	400	0	P
3	125.06	-13.14	42.26	29.12	43.50	-14.38	Peak	400	0	P
4	159.98	-10.90	47.50	36.60	43.50	-6.90	Peak	400	0	P
5	530.52	-4.45	35.77	31.32	46.00	-14.68	Peak	400	0	P
6	598.42	-2.84	37.56	34.72	46.00	-11.28	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 5		:	



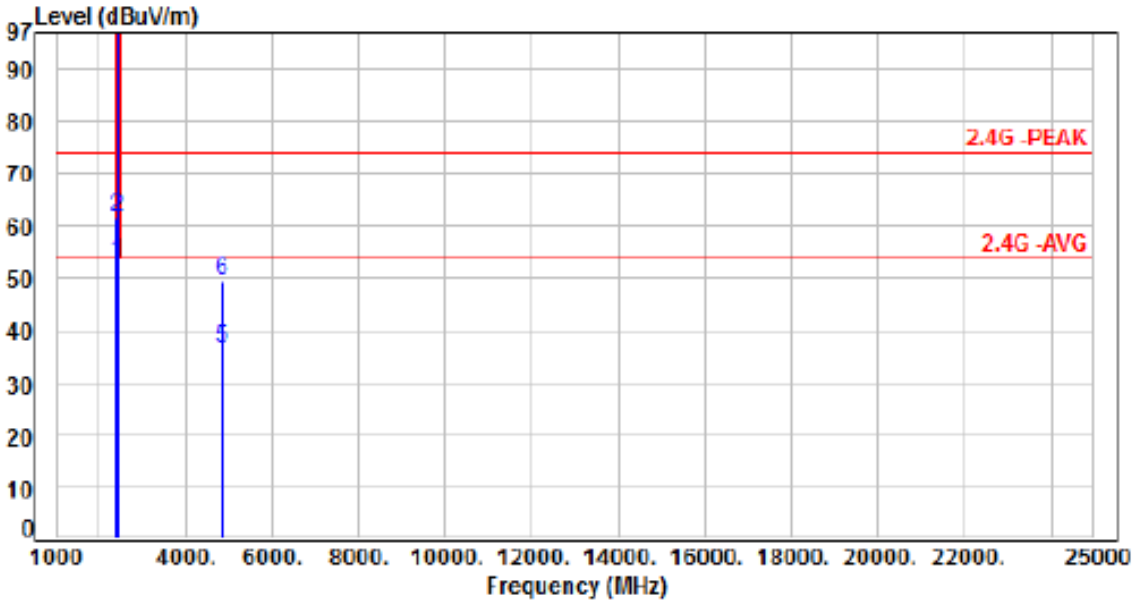
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	33.88	-12.29	46.36	34.07	40.00	-5.93	Peak	400	0	P
2	93.05	-16.45	49.36	32.91	43.50	-10.59	Peak	400	0	P
3	280.26	-10.74	40.44	29.70	46.00	-16.30	Peak	400	0	P
4	348.16	-8.88	37.99	29.11	46.00	-16.89	Peak	400	0	P
5	586.78	-3.19	35.75	32.56	46.00	-13.44	Peak	400	0	P
6	646.92	-1.92	36.91	34.99	46.00	-11.01	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

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

Non BeamForming- Omni Antenna

Power	:	From PoE(120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01		:	

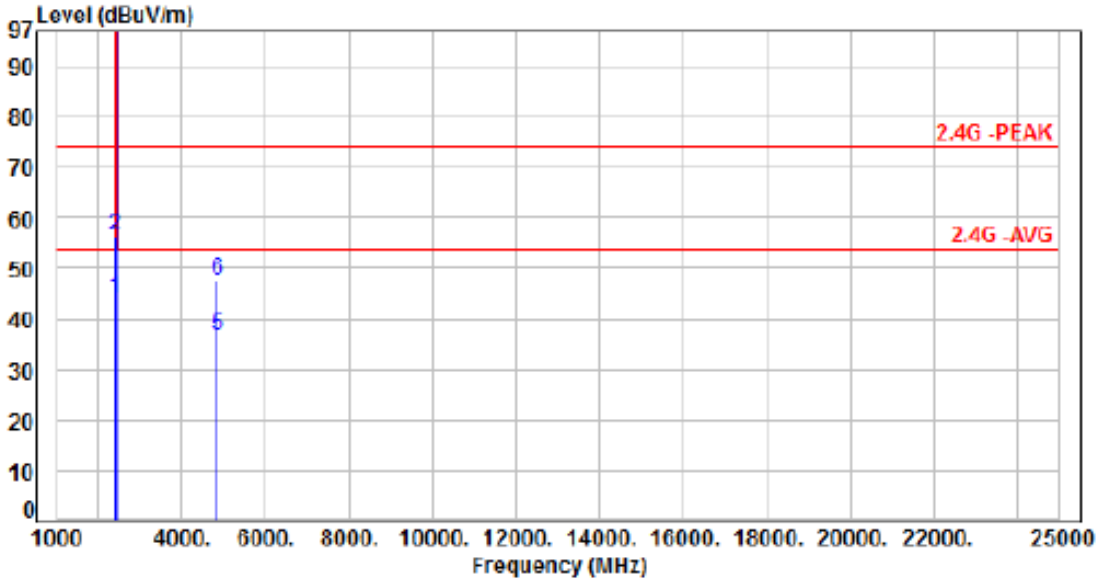


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	55.05	52.93	54.00	-1.07	Average	201	316	P
2	2390.00	-2.12	63.58	61.46	74.00	-12.54	Peak	201	316	P
3	2412.00	-2.10	121.42	119.32	200.00	-80.68	Average	201	316	P
4	2412.00	-2.10	123.90	121.80	200.00	-78.20	Peak	201	316	P
5	4824.00	6.95	29.64	36.59	54.00	-17.41	Average	100	338	P
6	4824.00	6.95	42.39	49.34	74.00	-24.66	Peak	100	338	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01		:	

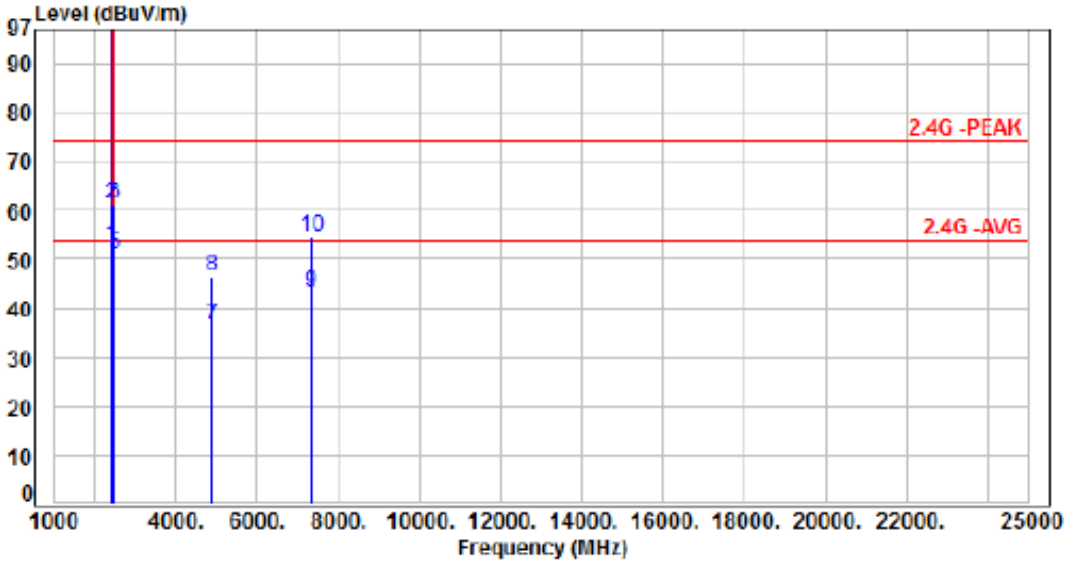


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.83	43.71	54.00	-10.29	Average	266	230	P
2	2390.00	-2.12	58.66	56.54	74.00	-17.46	Peak	266	230	P
3	2412.00	-2.10	101.15	99.05	200.00	-100.95	Average	266	230	P
4	2412.00	-2.10	103.62	101.52	200.00	-98.48	Peak	266	230	P
5	4824.00	6.95	29.47	36.42	54.00	-17.58	Average	100	217	P
6	4824.00	6.95	40.67	47.62	74.00	-26.38	Peak	100	217	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH06		:	

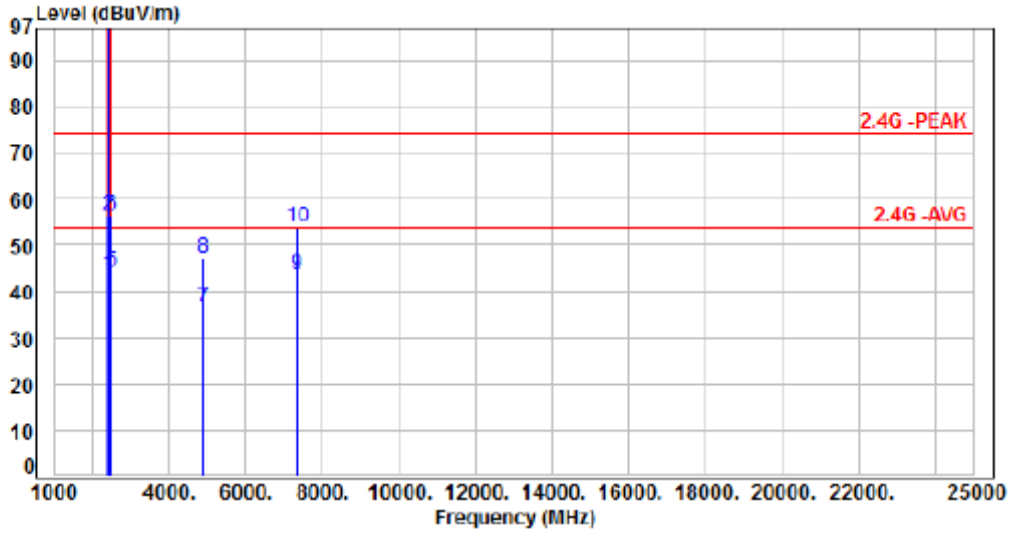


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.68	52.56	54.00	-1.44	Average	212	168	P
2	2390.00	-2.12	63.28	61.16	74.00	-12.84	Peak	212	168	P
3	2437.00	-2.07	123.54	121.47	200.00	-78.53	Average	212	168	P
4	2437.00	-2.07	125.99	123.92	200.00	-76.08	Peak	212	168	P
5	2483.50	-1.98	52.93	50.95	54.00	-3.05	Average	212	168	P
6	2483.50	-1.98	63.36	61.38	74.00	-12.62	Peak	212	168	P
7	4874.00	7.22	29.33	36.55	54.00	-17.45	Average	100	331	P
8	4874.00	7.22	39.11	46.33	74.00	-27.67	Peak	100	331	P
9	7311.00	12.29	30.75	43.04	54.00	-10.96	Average	100	69	P
10	7311.00	12.29	42.37	54.66	74.00	-19.34	Peak	100	69	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH06		:	

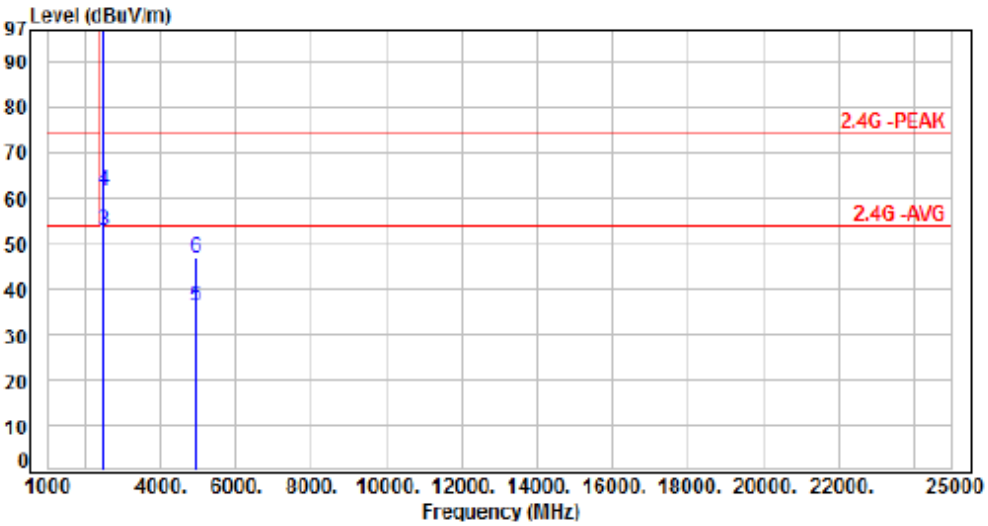


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.75	43.63	54.00	-10.37	Average	367	226	P
2	2390.00	-2.12	58.54	56.42	74.00	-17.58	Peak	367	226	P
3	2437.00	-2.07	105.63	103.56	200.00	-96.44	Average	367	226	P
4	2437.00	-2.07	107.80	105.73	200.00	-94.27	Peak	367	226	P
5	2483.50	-1.98	46.22	44.24	54.00	-9.76	Average	367	226	P
6	2483.50	-1.98	58.52	56.54	74.00	-17.46	Peak	367	226	P
7	4874.00	7.22	29.12	36.34	54.00	-17.66	Average	100	224	P
8	4874.00	7.22	40.03	47.25	74.00	-26.75	Peak	100	224	P
9	7311.00	12.29	31.07	43.36	54.00	-10.64	Average	100	137	P
10	7311.00	12.29	41.71	54.00	74.00	-20.00	Peak	100	137	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH11		:	

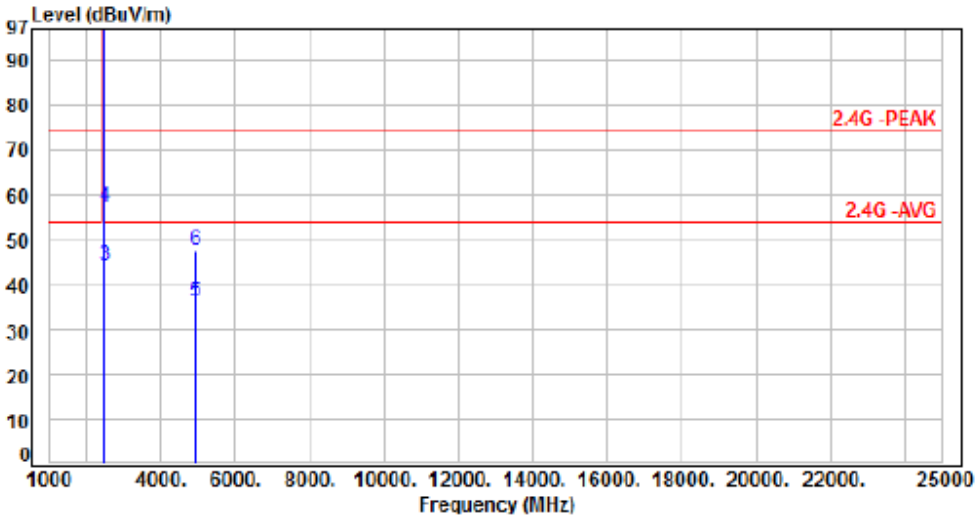


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	120.32	118.30	200.00	-81.70	Average	226	165	P
2	2462.00	-2.02	122.60	120.58	200.00	-79.42	Peak	226	165	P
3	2483.50	-1.98	54.76	52.78	54.00	-1.22	Average	226	165	P
4	2483.50	-1.98	63.61	61.63	74.00	-12.37	Peak	226	165	P
5	4924.00	7.33	28.78	36.11	54.00	-17.89	Average	100	45	P
6	4924.00	7.33	39.41	46.74	74.00	-27.26	Peak	100	45	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH11		:	

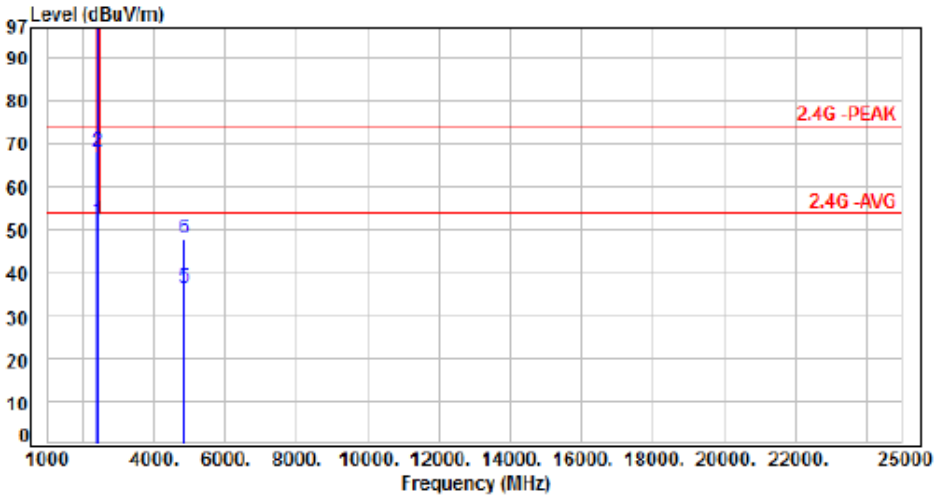


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	100.45	98.43	200.00	-101.57	Average	360	227	P
2	2462.00	-2.02	102.76	100.74	200.00	-99.26	Peak	360	227	P
3	2483.50	-1.98	46.23	44.25	54.00	-9.75	Average	360	227	P
4	2483.50	-1.98	59.23	57.25	74.00	-16.75	Peak	360	227	P
5	4924.00	7.33	28.99	36.32	54.00	-17.68	Average	100	236	P
6	4924.00	7.33	40.32	47.65	74.00	-26.35	Peak	100	236	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH01		:	

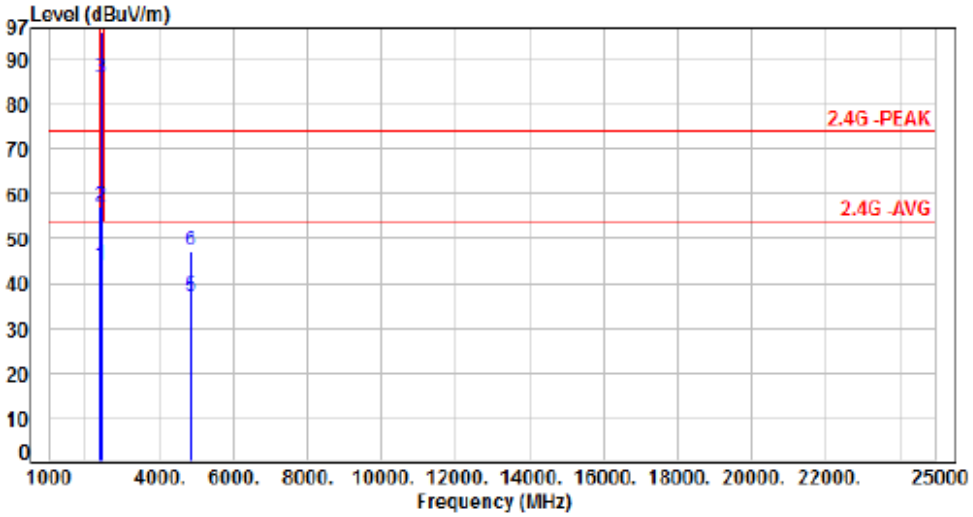


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.18	52.06	54.00	-1.94	Average	229	193	P
2	2390.00	-2.12	70.17	68.05	74.00	-5.95	Peak	229	193	P
3	2412.00	-2.10	110.42	108.32	200.00	-91.68	Average	229	193	P
4	2412.00	-2.10	121.04	118.94	200.00	-81.06	Peak	229	193	P
5	4824.00	6.95	29.62	36.57	54.00	-17.43	Average	100	158	P
6	4824.00	6.95	41.03	47.98	74.00	-26.02	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01		:	

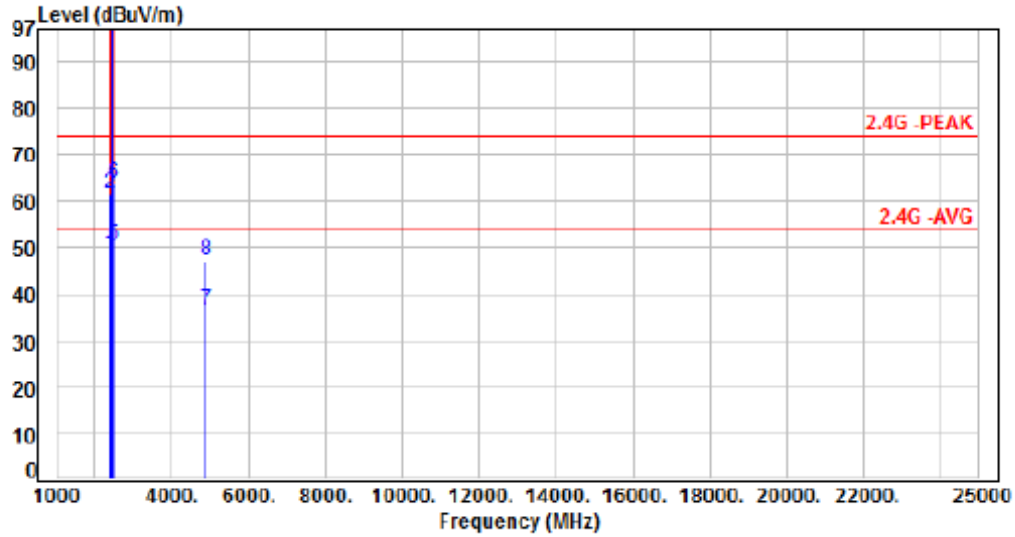


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	46.06	43.94	54.00	-10.06	Average	130	322	P
2	2390.00	-2.12	59.36	57.24	74.00	-16.76	Peak	130	322	P
3	2412.00	-2.10	88.05	85.95	200.00	-114.05	Average	130	322	P
4	2412.00	-2.10	98.23	96.13	200.00	-103.87	Peak	130	322	P
5	4824.00	6.95	29.89	36.84	54.00	-17.16	Average	100	317	P
6	4824.00	6.95	40.24	47.19	74.00	-26.81	Peak	100	317	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH06		:	

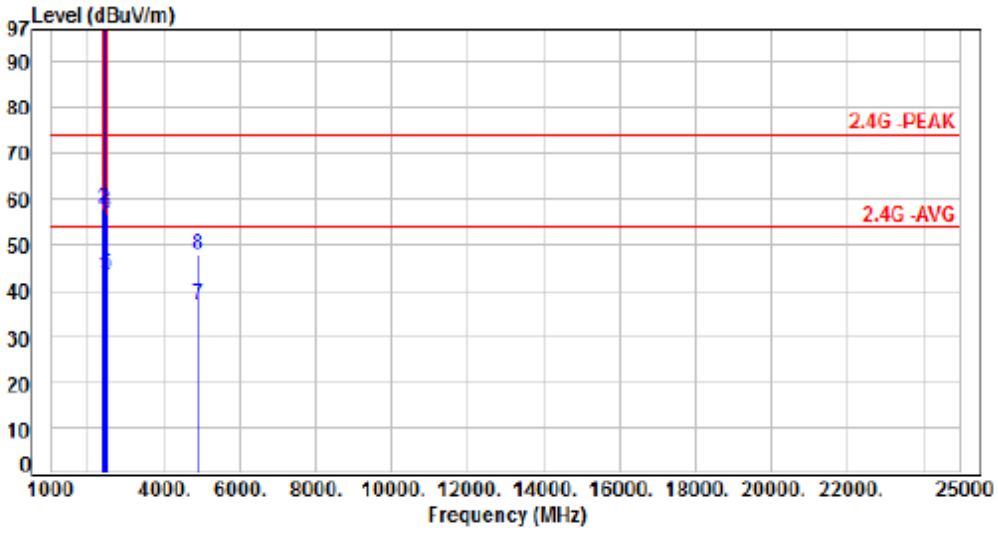


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	50.79	48.67	54.00	-5.33	Average	232	214	P
2	2390.00	-2.12	63.82	61.70	74.00	-12.30	Peak	232	214	P
3	2437.00	-2.07	118.31	116.24	200.00	-83.76	Average	232	214	P
4	2437.00	-2.07	128.58	126.51	200.00	-73.49	Peak	232	214	P
5	2483.50	-1.98	52.64	50.66	54.00	-3.34	Average	232	214	P
6	2483.50	-1.98	65.73	63.75	74.00	-10.25	Peak	232	214	P
7	4874.00	7.22	29.19	36.41	54.00	-17.59	Average	100	349	P
8	4874.00	7.22	40.03	47.25	74.00	-26.75	Peak	100	349	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH06		:	

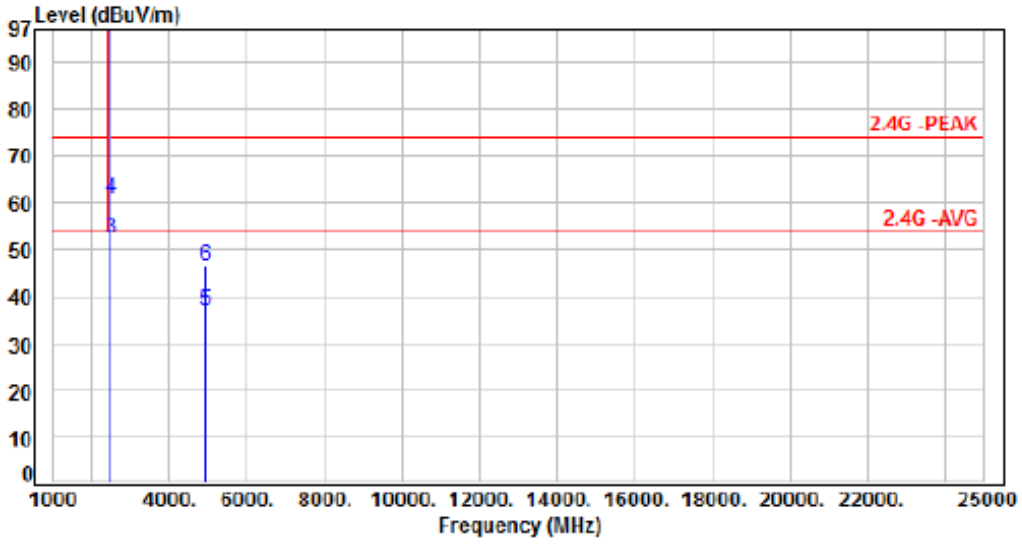


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.19	43.07	54.00	-10.93	Average	100	318	P
2	2390.00	-2.12	59.93	57.81	74.00	-16.19	Peak	100	318	P
3	2437.00	-2.07	97.73	95.66	200.00	-104.34	Average	100	318	P
4	2437.00	-2.07	107.83	105.76	200.00	-94.24	Peak	100	318	P
5	2483.50	-1.98	45.62	43.64	54.00	-10.36	Average	100	318	P
6	2483.50	-1.98	58.89	56.91	74.00	-17.09	Peak	100	318	P
7	4874.00	7.22	29.62	36.84	54.00	-17.16	Average	100	108	P
8	4874.00	7.22	40.64	47.86	74.00	-26.14	Peak	100	108	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH11		:	

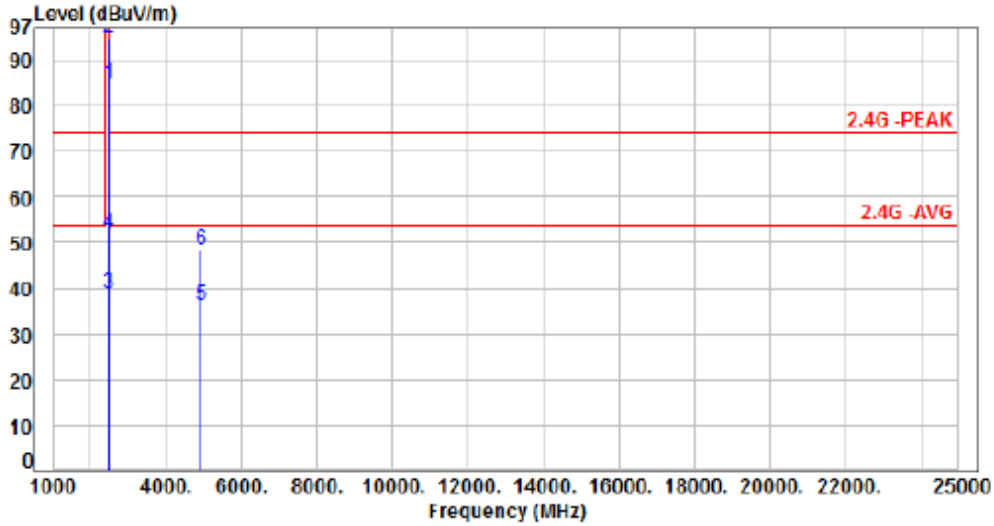


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	109.92	107.90	200.00	-92.10	Average	207	348	P
2	2462.00	-2.02	119.79	117.77	200.00	-82.23	Peak	207	348	P
3	2483.50	-1.98	54.49	52.51	54.00	-1.49	Average	207	348	P
4	2483.50	-1.98	62.89	60.91	74.00	-13.09	Peak	207	348	P
5	4924.00	7.33	29.53	36.86	54.00	-17.14	Average	100	274	P
6	4924.00	7.33	39.09	46.42	74.00	-27.58	Peak	100	274	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH11		:	

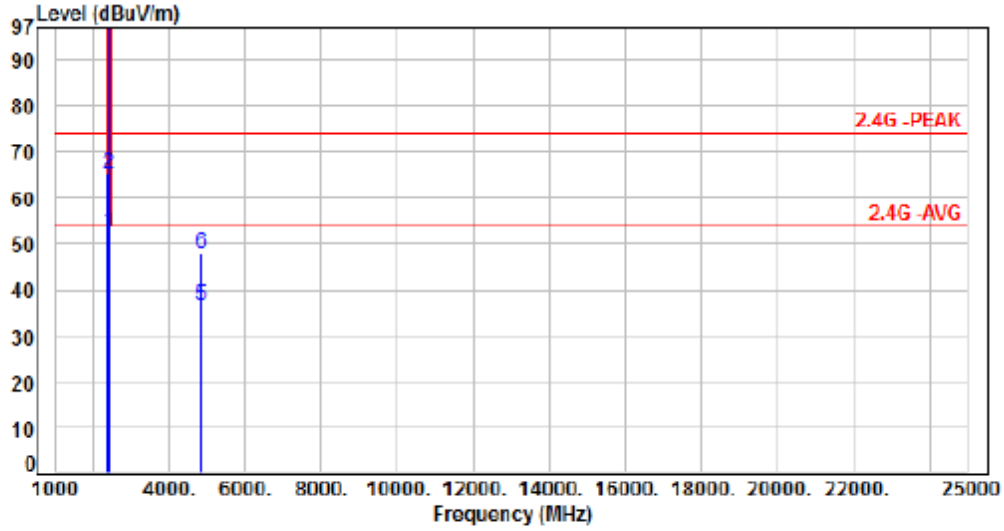


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	86.81	84.79	200.00	-115.21	Average	100	313	P
2	2462.00	-2.02	96.98	94.96	200.00	-105.04	Peak	100	313	P
3	2483.50	-1.98	40.88	38.90	54.00	-15.10	Average	100	313	P
4	2483.50	-1.98	53.98	52.00	74.00	-22.00	Peak	100	313	P
5	4924.00	7.33	28.99	36.32	54.00	-17.68	Average	100	56	P
6	4924.00	7.33	40.89	48.22	74.00	-25.78	Peak	100	56	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH01		:	

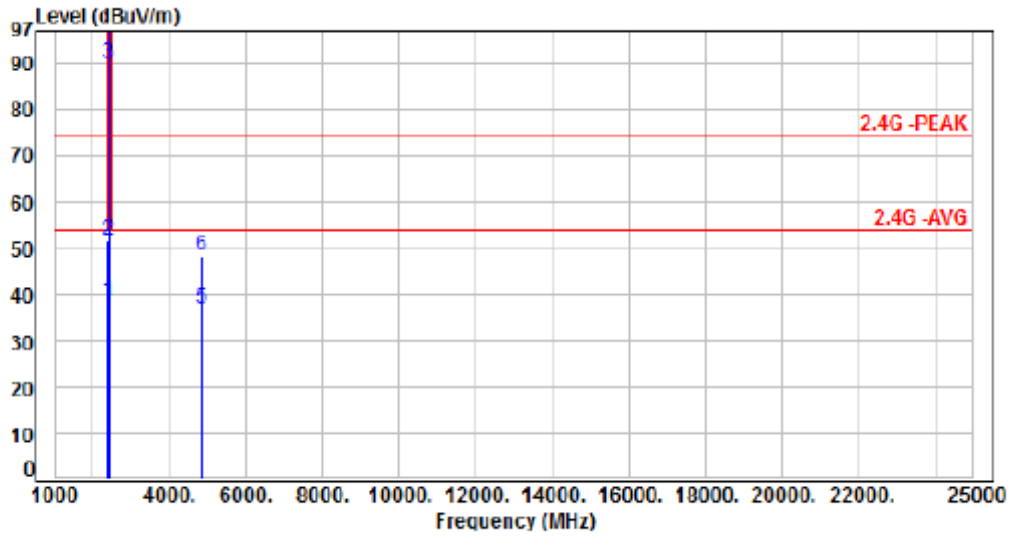


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.65	52.53	54.00	-1.47	Average	245	206	P
2	2390.00	-2.12	67.54	65.42	74.00	-8.58	Peak	245	206	P
3	2412.00	-2.10	110.38	108.28	200.00	-91.72	Average	245	206	P
4	2412.00	-2.10	124.68	122.58	200.00	-77.42	Peak	245	206	P
5	4824.00	6.95	29.62	36.57	54.00	-17.43	Average	100	167	P
6	4824.00	6.95	40.95	47.90	74.00	-26.10	Peak	100	167	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01		:	

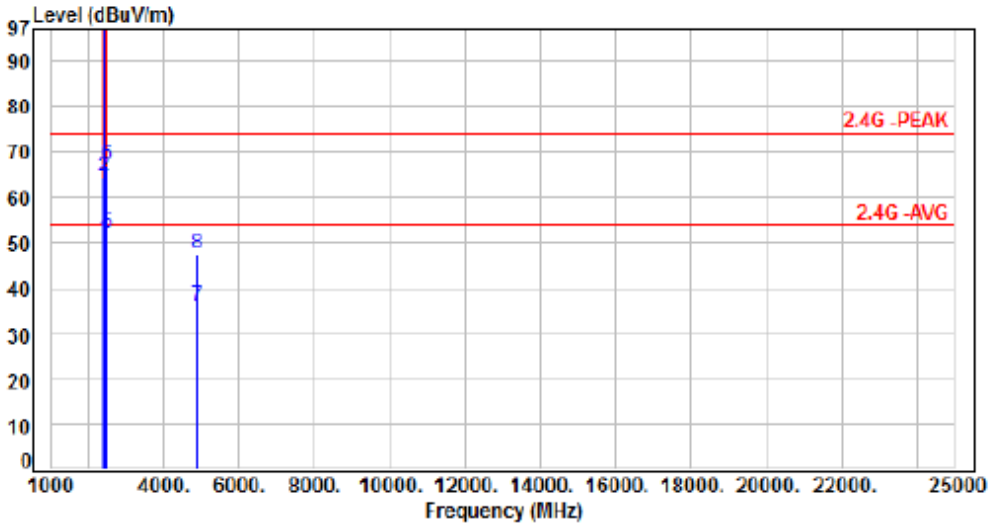


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	40.45	38.33	54.00	-15.67	Average	216	86	P
2	2390.00	-2.12	53.79	51.67	74.00	-22.33	Peak	216	86	P
3	2412.00	-2.10	92.22	90.12	200.00	-109.88	Average	216	86	P
4	2412.00	-2.10	105.10	103.00	200.00	-97.00	Peak	216	86	P
5	4824.00	6.95	29.81	36.76	54.00	-17.24	Average	100	186	P
6	4824.00	6.95	41.48	48.43	74.00	-25.57	Peak	100	186	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH06		:	

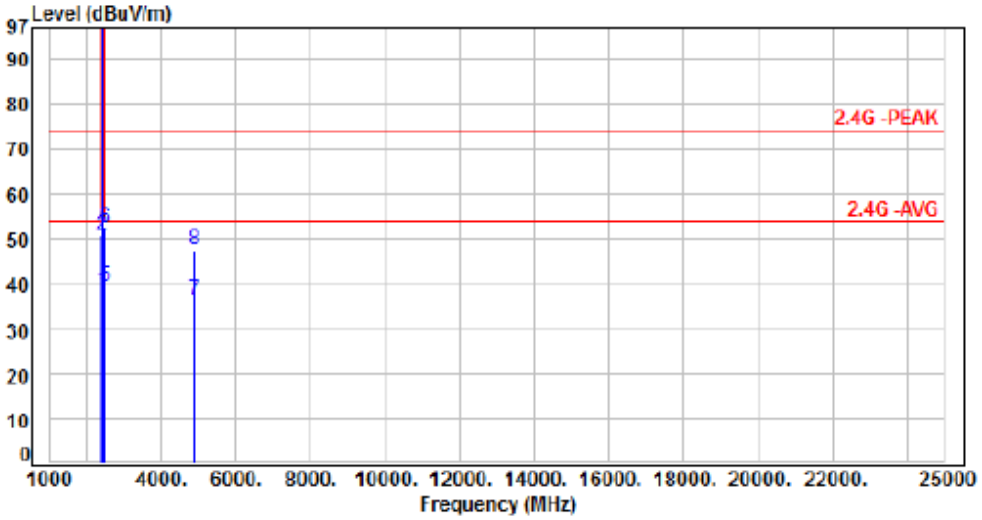


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.96	50.84	54.00	-3.16	Average	213	326	P
2	2390.00	-2.12	66.73	64.61	74.00	-9.39	Peak	213	326	P
3	2437.00	-2.07	117.90	115.83	200.00	-84.17	Average	213	326	P
4	2437.00	-2.07	131.48	129.41	200.00	-70.59	Peak	213	326	P
5	2483.50	-1.98	54.03	52.05	54.00	-1.95	Average	213	326	P
6	2483.50	-1.98	69.01	67.03	74.00	-6.97	Peak	213	326	P
7	4874.00	7.22	29.05	36.27	54.00	-17.73	Average	100	69	P
8	4874.00	7.22	40.35	47.57	74.00	-26.43	Peak	100	69	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH06		:	

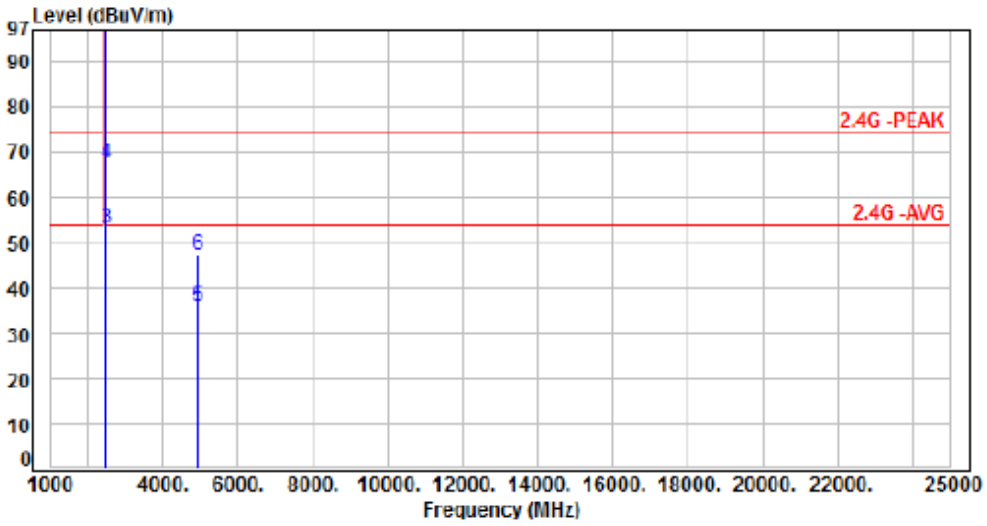


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	40.66	38.54	54.00	-15.46	Average	258	127	P
2	2390.00	-2.12	53.12	51.00	74.00	-23.00	Peak	258	127	P
3	2437.00	-2.07	100.81	98.74	200.00	-101.26	Average	258	127	P
4	2437.00	-2.07	114.07	112.00	200.00	-88.00	Peak	258	127	P
5	2483.50	-1.98	41.48	39.50	54.00	-14.50	Average	258	127	P
6	2483.50	-1.98	54.43	52.45	74.00	-21.55	Peak	258	127	P
7	4874.00	7.22	29.37	36.59	54.00	-17.41	Average	100	264	P
8	4874.00	7.22	40.53	47.75	74.00	-26.25	Peak	100	264	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH11		:	

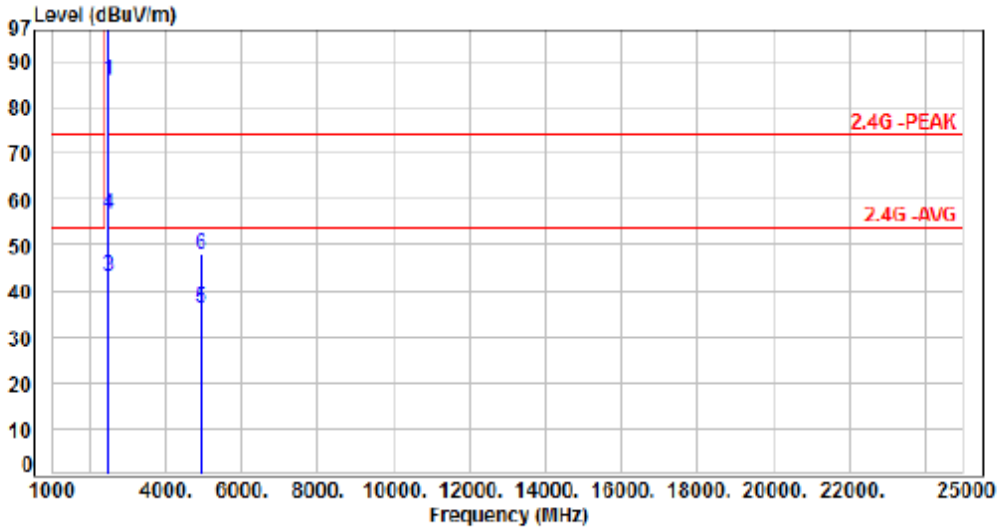


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	111.07	109.05	200.00	-90.95	Average	206	337	P
2	2462.00	-2.02	124.27	122.25	200.00	-77.75	Peak	206	337	P
3	2483.50	-1.98	54.98	53.00	54.00	-1.00	Average	206	337	P
4	2483.50	-1.98	69.40	67.42	74.00	-6.58	Peak	206	337	P
5	4924.00	7.33	28.51	35.84	54.00	-18.16	Average	100	314	P
6	4924.00	7.33	39.94	47.27	74.00	-26.73	Peak	100	314	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH11		:	

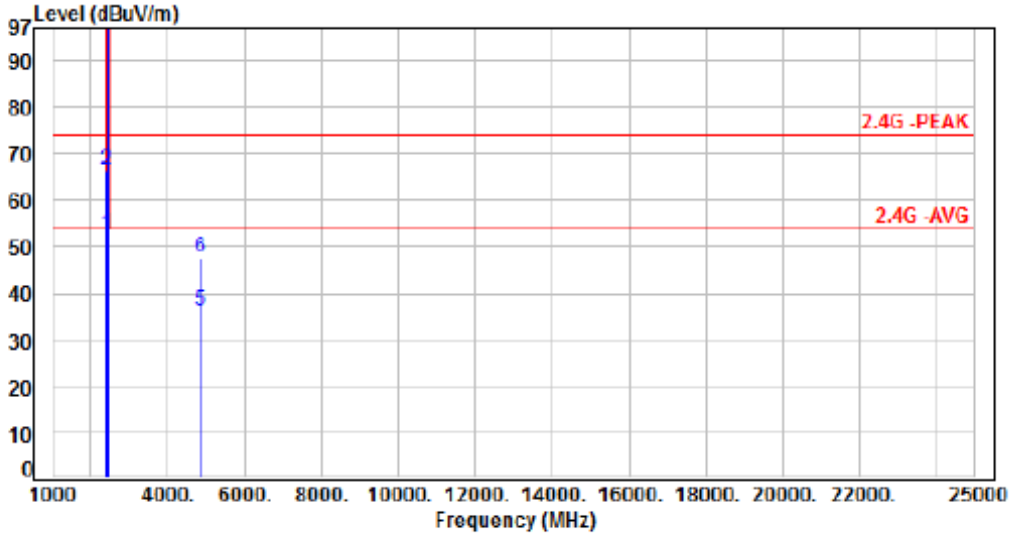


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	88.10	86.08	200.00	-113.92	Average	100	315	P
2	2462.00	-2.02	101.39	99.37	200.00	-100.63	Peak	100	315	P
3	2483.50	-1.98	44.99	43.01	54.00	-10.99	Average	100	315	P
4	2483.50	-1.98	58.92	56.94	74.00	-17.06	Peak	100	315	P
5	4924.00	7.33	28.83	36.16	54.00	-17.84	Average	100	333	P
6	4924.00	7.33	40.53	47.86	74.00	-26.14	Peak	100	333	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH03		:	

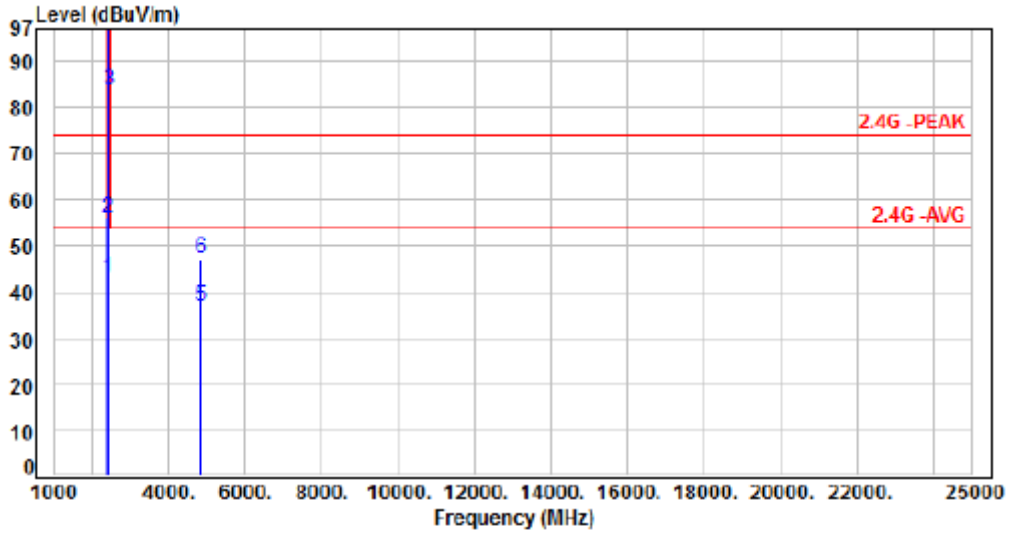


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.79	52.67	54.00	-1.33	Average	203	342	P
2	2390.00	-2.12	68.54	66.42	74.00	-7.58	Peak	203	342	P
3	2422.00	-2.08	103.90	101.82	200.00	-98.18	Average	203	342	P
4	2422.00	-2.08	117.46	115.38	200.00	-84.62	Peak	203	342	P
5	4844.00	7.09	29.21	36.30	54.00	-17.70	Average	100	174	P
6	4844.00	7.09	40.62	47.71	74.00	-26.29	Peak	100	174	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH03		:	

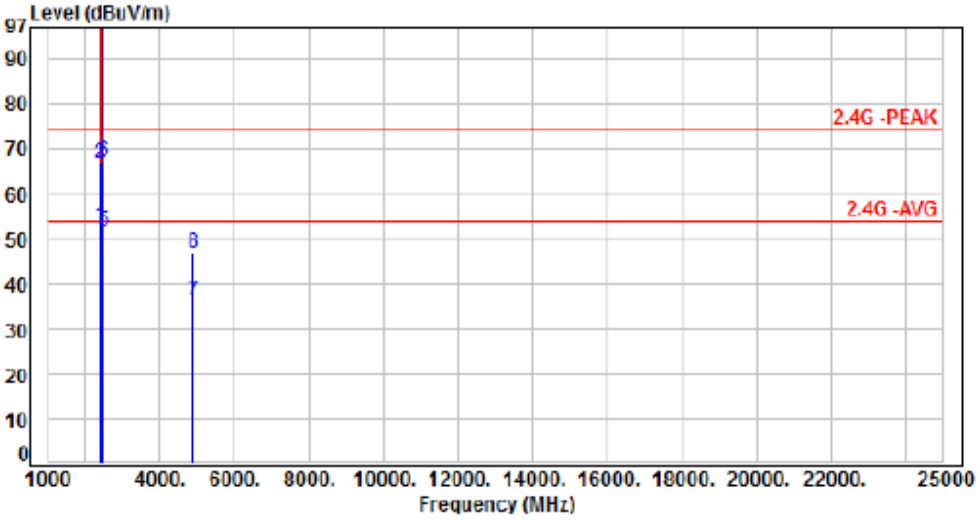


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.13	43.01	54.00	-10.99	Average	235	121	P
2	2390.00	-2.12	58.30	56.18	74.00	-17.82	Peak	235	121	P
3	2422.00	-2.08	85.79	83.71	200.00	-116.29	Average	235	121	P
4	2422.00	-2.08	99.01	96.93	200.00	-103.07	Peak	235	121	P
5	4844.00	7.09	29.63	36.72	54.00	-17.28	Average	100	137	P
6	4844.00	7.09	40.29	47.38	74.00	-26.62	Peak	100	137	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH06		:	

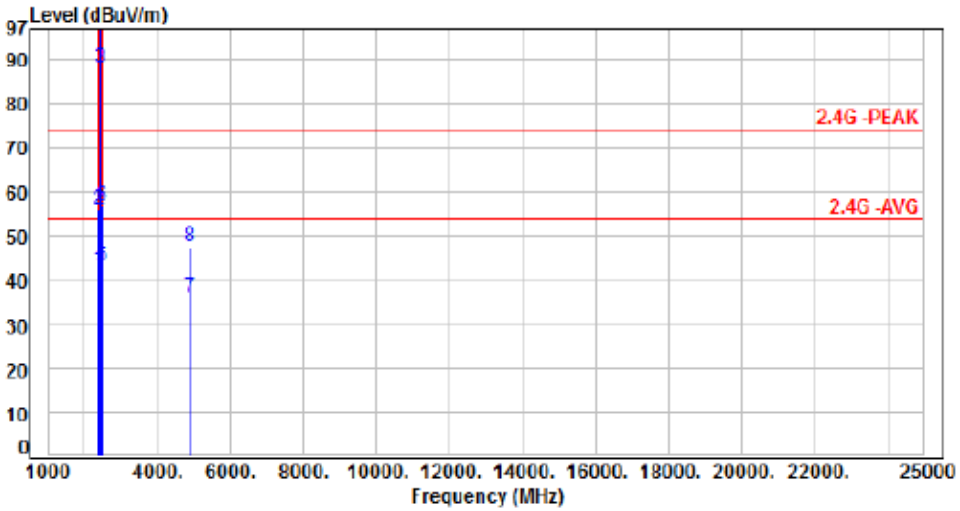


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.89	52.77	54.00	-1.23	Average	189	331	P
2	2390.00	-2.12	69.04	66.92	74.00	-7.08	Peak	189	331	P
3	2437.00	-2.07	108.82	106.75	200.00	-93.25	Average	189	331	P
4	2437.00	-2.07	122.00	119.93	200.00	-80.07	Peak	189	331	P
5	2483.50	-1.98	53.75	51.77	54.00	-2.23	Average	189	331	P
6	2483.50	-1.98	69.09	67.11	74.00	-6.89	Peak	189	331	P
7	4874.00	7.22	29.01	36.23	54.00	-17.77	Average	100	289	P
8	4874.00	7.22	39.75	46.97	74.00	-27.03	Peak	100	289	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH06		:	

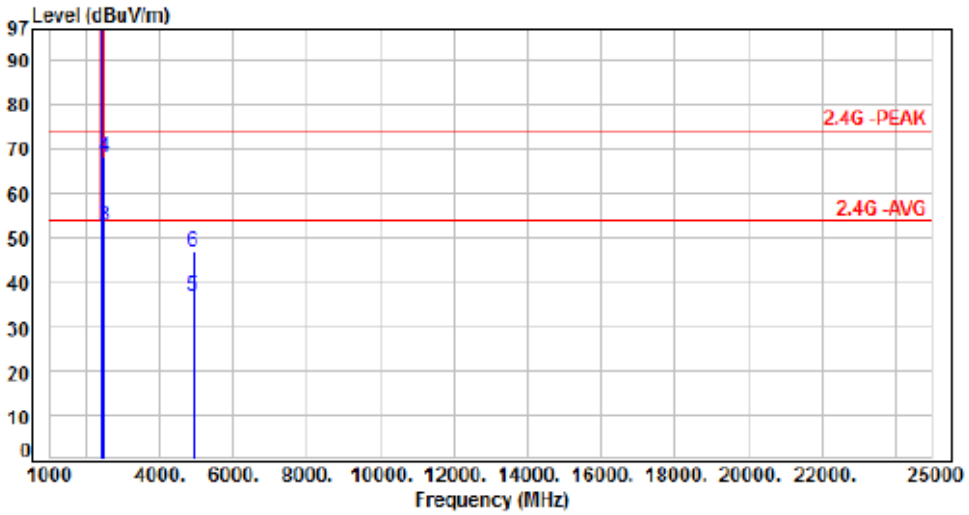


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	44.67	42.55	54.00	-11.45	Average	257	131	P
2	2390.00	-2.12	58.31	56.19	74.00	-17.81	Peak	257	131	P
3	2437.00	-2.07	90.35	88.28	200.00	-111.72	Average	257	131	P
4	2437.00	-2.07	103.03	100.96	200.00	-99.04	Peak	257	131	P
5	2483.50	-1.98	45.23	43.25	54.00	-10.75	Average	257	131	P
6	2483.50	-1.98	58.75	56.77	74.00	-17.23	Peak	257	131	P
7	4874.00	7.22	29.09	36.31	54.00	-17.69	Average	100	86	P
8	4874.00	7.22	40.38	47.60	74.00	-26.40	Peak	100	86	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH09		:	

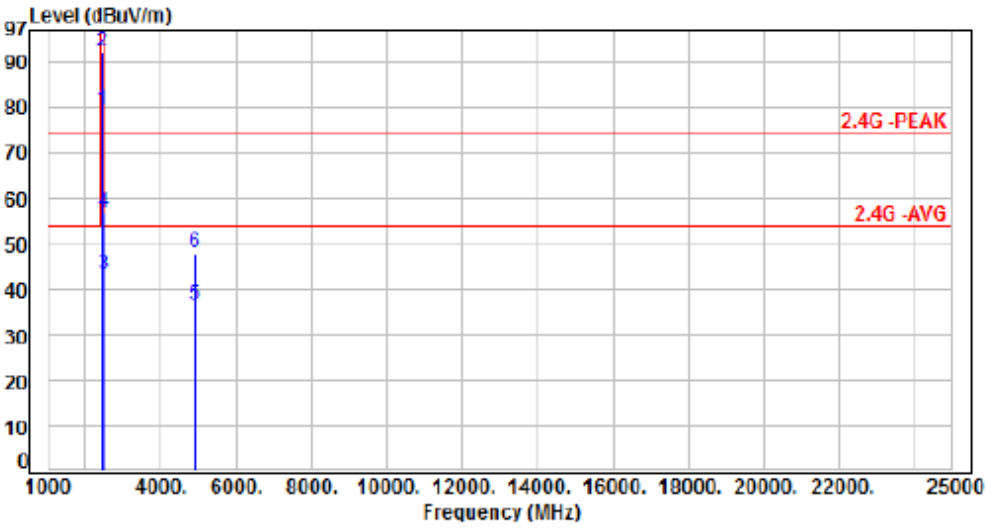


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	103.77	101.72	200.00	-98.28	Average	201	340	P
2	2452.00	-2.05	117.91	115.86	200.00	-84.14	Peak	201	340	P
3	2483.50	-1.98	54.68	52.70	54.00	-1.30	Average	201	340	P
4	2483.50	-1.98	70.18	68.20	74.00	-5.80	Peak	201	340	P
5	4904.00	7.31	29.48	36.79	54.00	-17.21	Average	100	314	P
6	4904.00	7.31	39.49	46.80	74.00	-27.20	Peak	100	314	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH09		:	

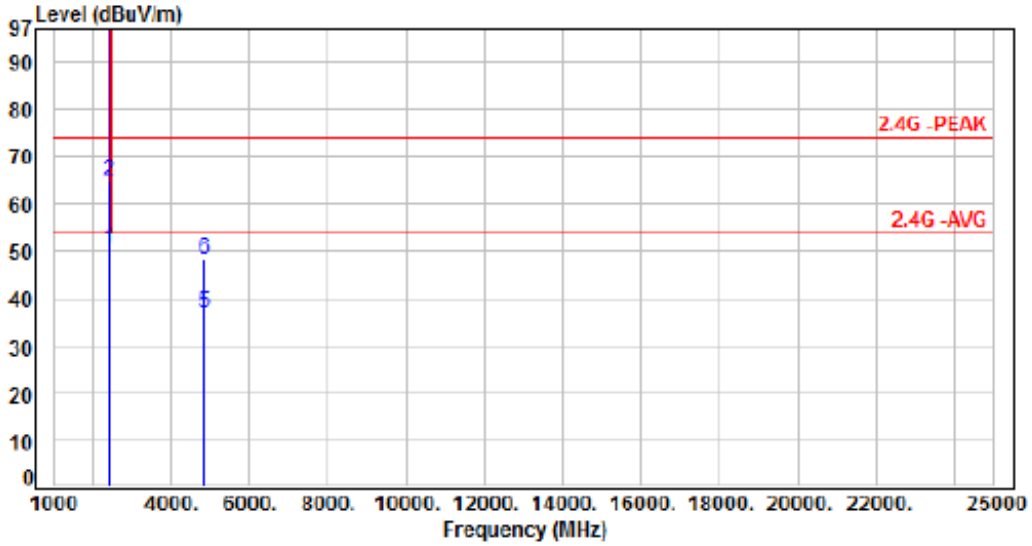


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	81.23	79.18	200.00	-120.82	Average	100	309	P
2	2452.00	-2.05	94.39	92.34	200.00	-107.66	Peak	100	309	P
3	2483.50	-1.98	45.01	43.03	54.00	-10.97	Average	100	309	P
4	2483.50	-1.98	58.81	56.83	74.00	-17.17	Peak	100	309	P
5	4904.00	7.31	29.33	36.64	54.00	-17.36	Average	100	146	P
6	4904.00	7.31	40.63	47.94	74.00	-26.06	Peak	100	146	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH01		:	

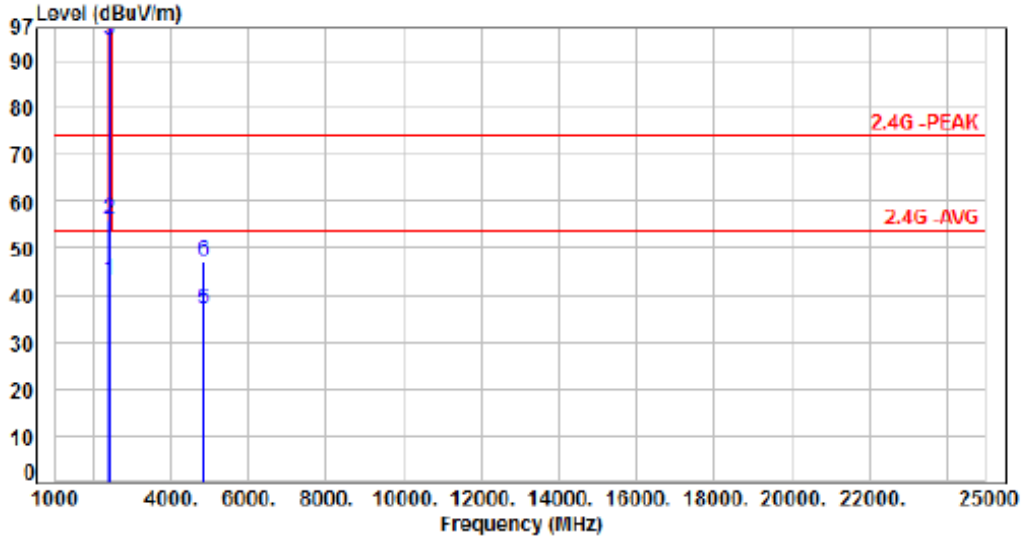


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.64	50.52	54.00	-3.48	Average	205	326	P
2	2390.00	-2.12	67.00	64.88	74.00	-9.12	Peak	205	326	P
3	2412.00	-2.10	114.16	112.06	200.00	-87.94	Average	205	326	P
4	2412.00	-2.10	119.68	117.58	200.00	-82.42	Peak	205	326	P
5	4824.00	6.95	29.84	36.79	54.00	-17.21	Average	100	42	P
6	4824.00	6.95	41.27	48.22	74.00	-25.78	Peak	100	42	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH01		:	

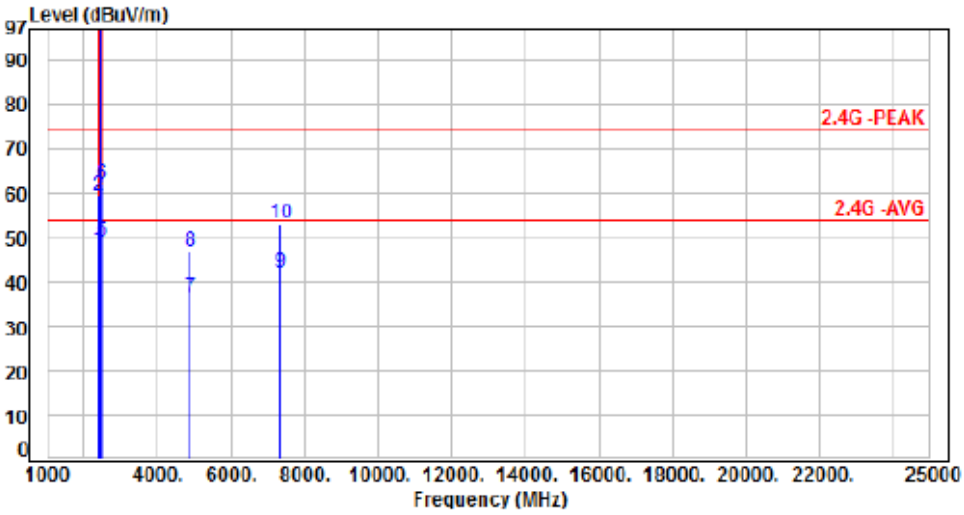


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.15	43.03	54.00	-10.97	Average	219	117	P
2	2390.00	-2.12	58.15	56.03	74.00	-17.97	Peak	219	117	P
3	2412.00	-2.10	96.46	94.36	200.00	-105.64	Average	219	117	P
4	2412.00	-2.10	103.41	101.31	200.00	-98.69	Peak	219	117	P
5	4824.00	6.95	29.84	36.79	54.00	-17.21	Average	100	224	P
6	4824.00	6.95	40.19	47.14	74.00	-26.86	Peak	100	224	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH06		:	

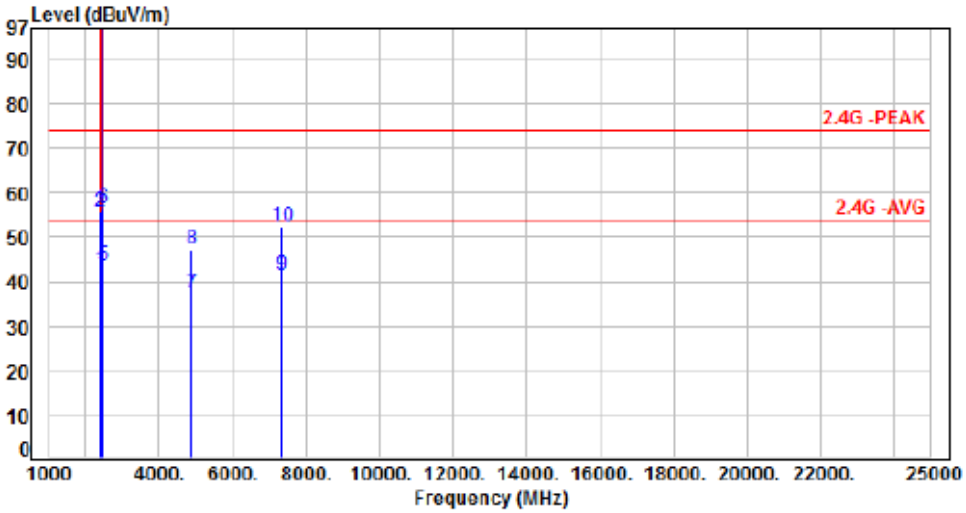


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	49.15	47.03	54.00	-6.97	Average	257	165	P
2	2390.00	-2.12	61.36	59.24	74.00	-14.76	Peak	257	165	P
3	2437.00	-2.07	121.93	119.86	200.00	-80.14	Average	257	165	P
4	2437.00	-2.07	125.72	123.65	200.00	-76.35	Peak	257	165	P
5	2483.50	-1.98	51.15	49.17	54.00	-4.83	Average	257	165	P
6	2483.50	-1.98	63.87	61.89	74.00	-12.11	Peak	257	165	P
7	4874.00	7.22	29.12	36.34	54.00	-17.66	Average	100	351	P
8	4874.00	7.22	39.73	46.95	74.00	-27.05	Peak	100	351	P
9	7311.00	12.29	29.66	41.95	54.00	-12.05	Average	100	165	P
10	7311.00	12.29	40.95	53.24	74.00	-20.76	Peak	100	165	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH06		:	

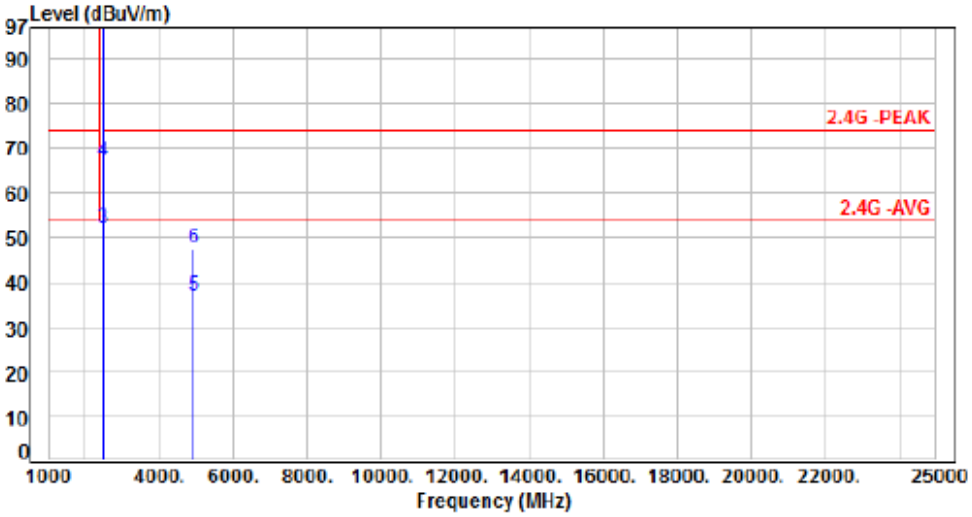


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	44.89	42.77	54.00	-11.23	Average	168	156	P
2	2390.00	-2.12	57.75	55.63	74.00	-18.37	Peak	168	156	P
3	2437.00	-2.07	99.54	97.47	200.00	-102.53	Average	168	156	P
4	2437.00	-2.07	108.08	106.01	200.00	-93.99	Peak	168	156	P
5	2483.50	-1.98	45.39	43.41	54.00	-10.59	Average	168	156	P
6	2483.50	-1.98	58.59	56.61	74.00	-17.39	Peak	168	156	P
7	4874.00	7.22	29.89	37.11	54.00	-16.89	Average	100	347	P
8	4874.00	7.22	40.16	47.38	74.00	-26.62	Peak	100	347	P
9	7311.00	12.29	28.95	41.24	54.00	-12.76	Average	100	75	P
10	7311.00	12.29	40.03	52.32	74.00	-21.68	Peak	100	75	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH11		:	

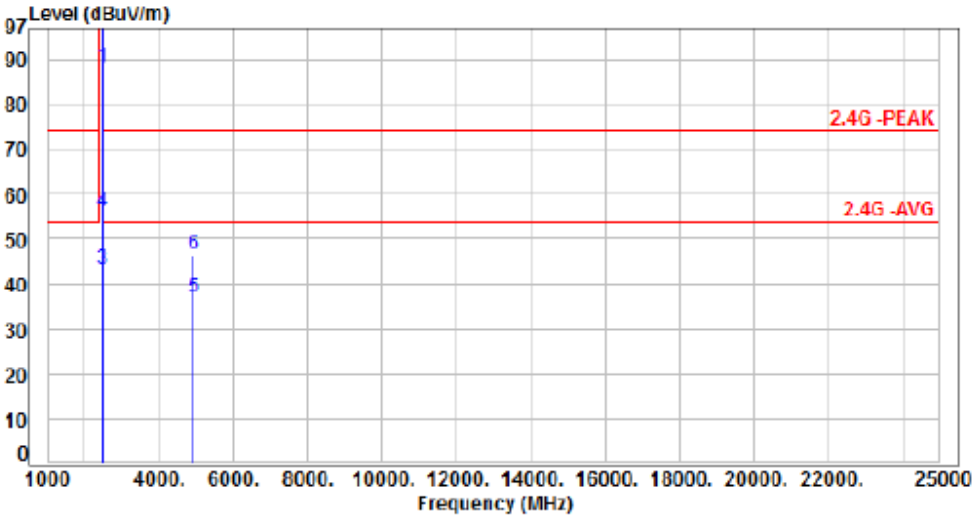


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	113.75	111.73	200.00	-88.27	Average	210	25	P
2	2462.00	-2.02	119.52	117.50	200.00	-82.50	Peak	210	25	P
3	2483.50	-1.96	54.04	52.06	54.00	-1.94	Average	210	25	P
4	2483.50	-1.96	69.09	67.11	74.00	-6.89	Peak	210	25	P
5	4924.00	7.33	29.45	36.78	54.00	-17.22	Average	100	38	P
6	4924.00	7.33	40.16	47.49	74.00	-26.51	Peak	100	38	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH11		:	

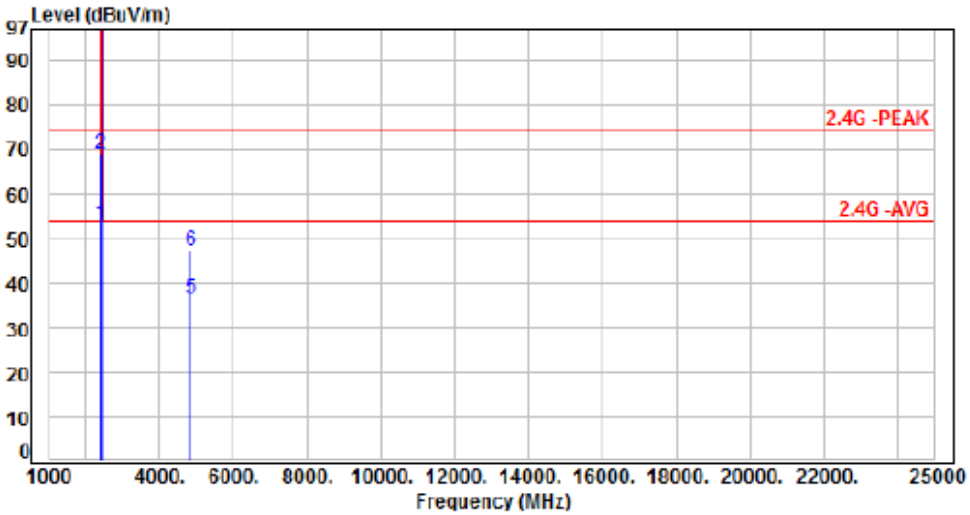


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	90.21	88.19	200.00	-111.81	Average	241	119	P
2	2462.00	-2.02	101.10	99.08	200.00	-100.92	Peak	241	119	P
3	2483.50	-1.98	45.31	43.33	54.00	-10.67	Average	241	119	P
4	2483.50	-1.98	57.87	55.89	74.00	-18.11	Peak	241	119	P
5	4924.00	7.33	29.45	36.78	54.00	-17.22	Average	100	191	P
6	4924.00	7.33	39.32	46.65	74.00	-27.35	Peak	100	191	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH03		:	

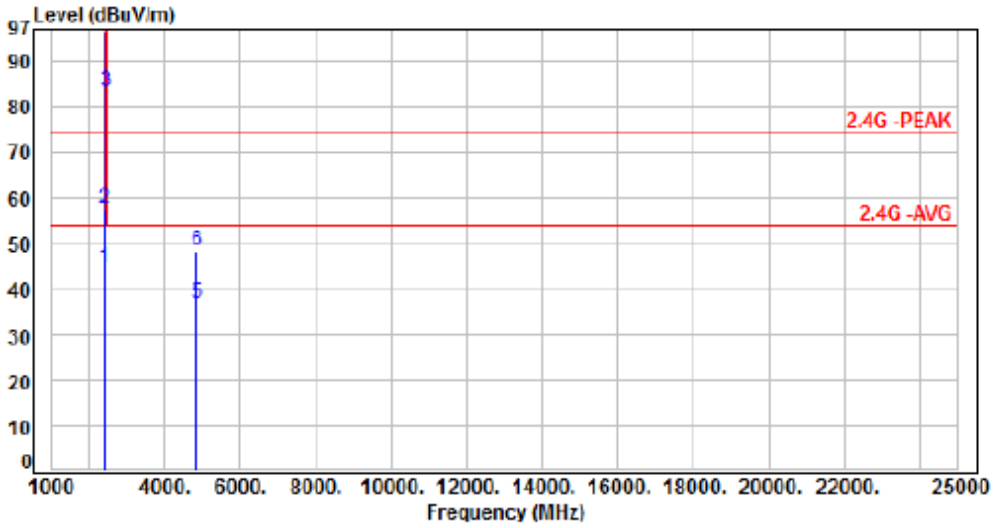


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	55.10	52.98	54.00	-1.02	Average	247	164	P
2	2390.00	-2.12	71.05	68.93	74.00	-5.07	Peak	247	164	P
3	2422.00	-2.08	103.71	101.63	200.00	-98.37	Average	247	164	P
4	2422.00	-2.08	116.98	114.90	200.00	-85.10	Peak	247	164	P
5	4844.00	7.09	29.46	36.55	54.00	-17.45	Average	100	167	P
6	4844.00	7.09	40.18	47.27	74.00	-26.73	Peak	100	167	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH03		:	

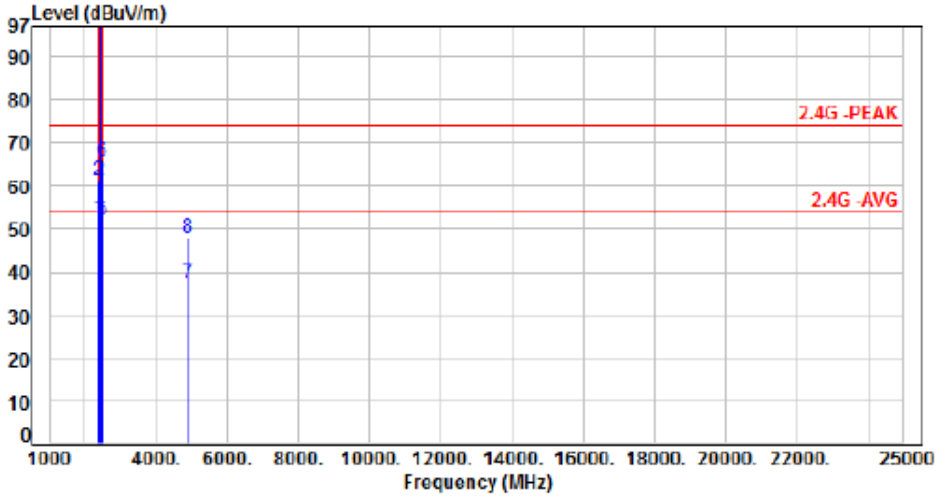


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	46.60	44.48	54.00	-9.52	Average	233	126	P
2	2390.00	-2.12	59.77	57.65	74.00	-16.35	Peak	233	126	P
3	2422.00	-2.08	85.33	83.25	200.00	-116.75	Average	233	126	P
4	2422.00	-2.08	98.55	96.47	200.00	-103.53	Peak	233	126	P
5	4844.00	7.09	29.90	36.99	54.00	-17.01	Average	100	216	P
6	4844.00	7.09	41.20	48.29	74.00	-25.71	Peak	100	216	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH06		:	

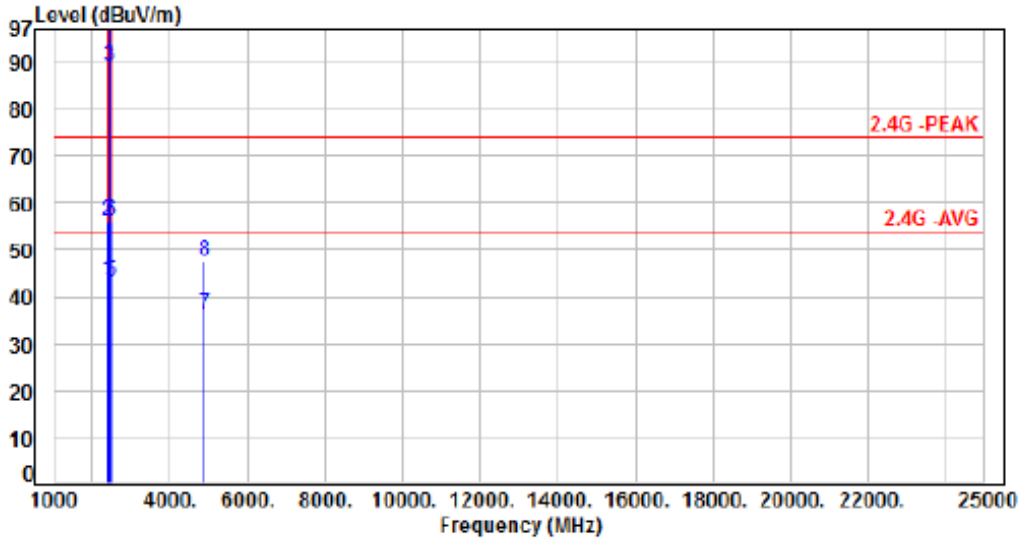


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.33	52.21	54.00	-1.79	Average	202	12	P
2	2390.00	-2.12	63.21	61.09	74.00	-12.91	Peak	202	12	P
3	2437.00	-2.07	102.33	100.26	200.00	-99.74	Average	202	12	P
4	2437.00	-2.07	113.98	111.91	200.00	-88.09	Peak	202	12	P
5	2483.50	-1.98	53.97	51.99	54.00	-2.01	Average	202	12	P
6	2483.50	-1.98	67.59	65.61	74.00	-8.39	Peak	202	12	P
7	4874.00	7.22	29.92	37.14	54.00	-16.86	Average	100	314	P
8	4874.00	7.22	40.70	47.92	74.00	-26.08	Peak	100	314	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH06		:	

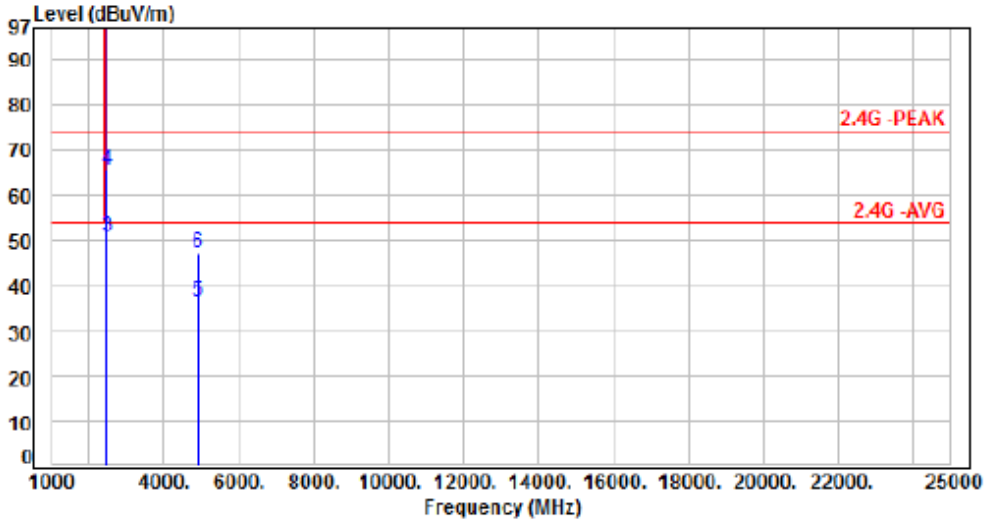


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	45.75	43.63	54.00	-10.37	Average	100	236	P
2	2390.00	-2.12	58.31	56.19	74.00	-17.81	Peak	100	236	P
3	2437.00	-2.07	91.35	89.28	200.00	-110.72	Average	100	236	P
4	2437.00	-2.07	101.70	99.63	200.00	-100.37	Peak	100	236	P
5	2483.50	-1.98	45.20	43.22	54.00	-10.78	Average	100	236	P
6	2483.50	-1.98	58.10	56.12	74.00	-17.88	Peak	100	236	P
7	4874.00	7.22	29.03	36.25	54.00	-17.75	Average	100	236	P
8	4874.00	7.22	40.36	47.58	74.00	-26.42	Peak	100	236	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH09		:	

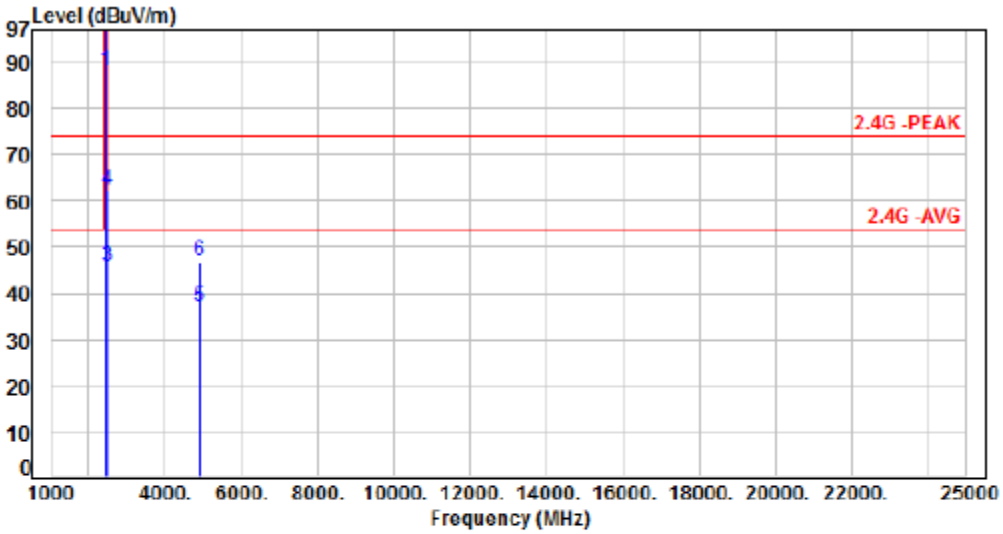


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	100.74	98.69	200.00	-101.31	Average	192	21	P
2	2452.00	-2.05	115.08	113.03	200.00	-86.97	Peak	192	21	P
3	2483.50	-1.98	52.78	50.80	54.00	-3.20	Average	192	21	P
4	2483.50	-1.98	67.46	65.48	74.00	-8.52	Peak	192	21	P
5	4904.00	7.31	29.22	36.53	54.00	-17.47	Average	100	121	P
6	4904.00	7.31	39.90	47.21	74.00	-26.79	Peak	100	121	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Omni Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH09		:	

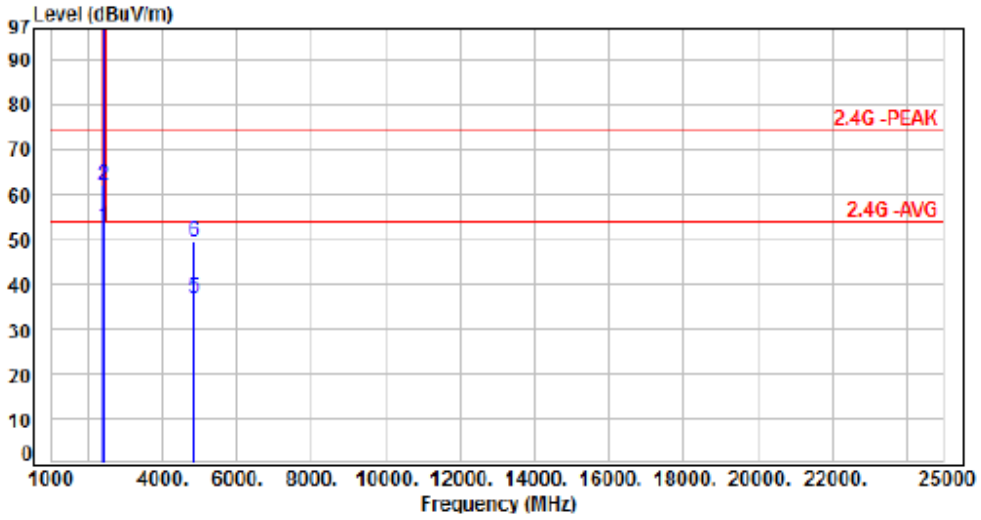


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	90.24	88.19	200.00	-111.81	Average	160	154	P
2	2452.00	-2.05	102.70	100.65	200.00	-99.35	Peak	160	154	P
3	2483.50	-1.98	47.83	45.85	54.00	-8.15	Average	160	154	P
4	2483.50	-1.98	64.21	62.23	74.00	-11.77	Peak	160	154	P
5	4904.00	7.31	29.39	36.70	54.00	-17.30	Average	100	117	P
6	4904.00	7.31	39.57	46.88	74.00	-27.12	Peak	100	117	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01		:	

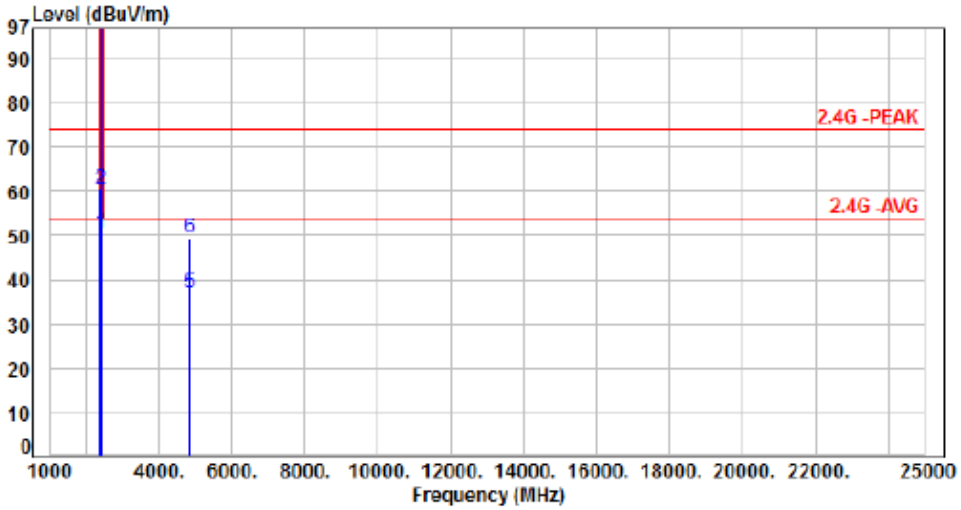


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.84	52.72	54.00	-1.28	Average	100	81	P
2	2390.00	-2.12	64.14	62.02	74.00	-11.98	Peak	100	81	P
3	2412.00	-2.10	123.60	121.50	200.00	-78.50	Average	100	81	P
4	2412.00	-2.10	125.98	123.88	200.00	-76.12	Peak	100	81	P
5	4824.00	6.95	29.84	36.79	54.00	-17.21	Average	100	157	P
6	4824.00	6.95	42.36	49.31	74.00	-24.69	Peak	100	157	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01		:	

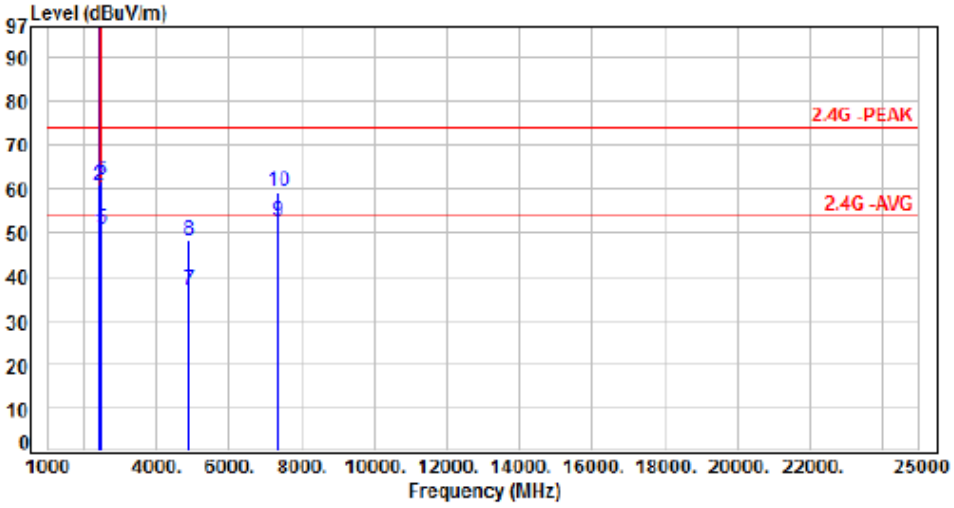


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.60	50.48	54.00	-3.52	Average	154	80	P
2	2390.00	-2.12	62.59	60.47	74.00	-13.53	Peak	154	80	P
3	2412.00	-2.10	122.41	120.31	200.00	-79.69	Average	154	80	P
4	2412.00	-2.10	124.79	122.69	200.00	-77.31	Peak	154	80	P
5	4824.00	6.95	29.82	36.77	54.00	-17.23	Average	100	155	P
6	4824.00	6.95	42.36	49.31	74.00	-24.69	Peak	100	155	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH06		:	

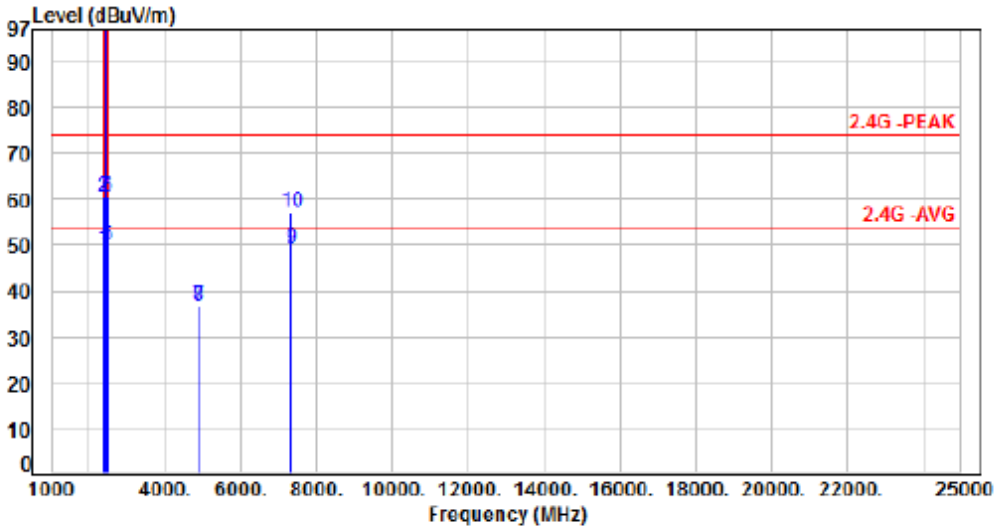


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.18	50.06	54.00	-3.94	Average	100	90	P
2	2390.00	-2.12	62.87	60.75	74.00	-13.25	Peak	100	90	P
3	2437.00	-2.07	124.18	122.11	200.00	-77.89	Average	100	90	P
4	2437.00	-2.07	127.34	125.27	200.00	-74.73	Peak	100	90	P
5	2483.50	-1.98	53.05	51.07	54.00	-2.93	Average	100	90	P
6	2483.50	-1.98	63.98	62.00	74.00	-12.00	Peak	100	90	P
7	4874.00	7.22	29.59	36.81	54.00	-17.19	Average	100	114	P
8	4874.00	7.22	41.24	48.46	74.00	-25.54	Peak	100	114	P
9	7311.00	12.29	40.40	52.69	54.00	-1.31	Average	100	323	P
10	7311.00	12.29	46.97	59.26	74.00	-14.74	Peak	100	323	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH06		:	

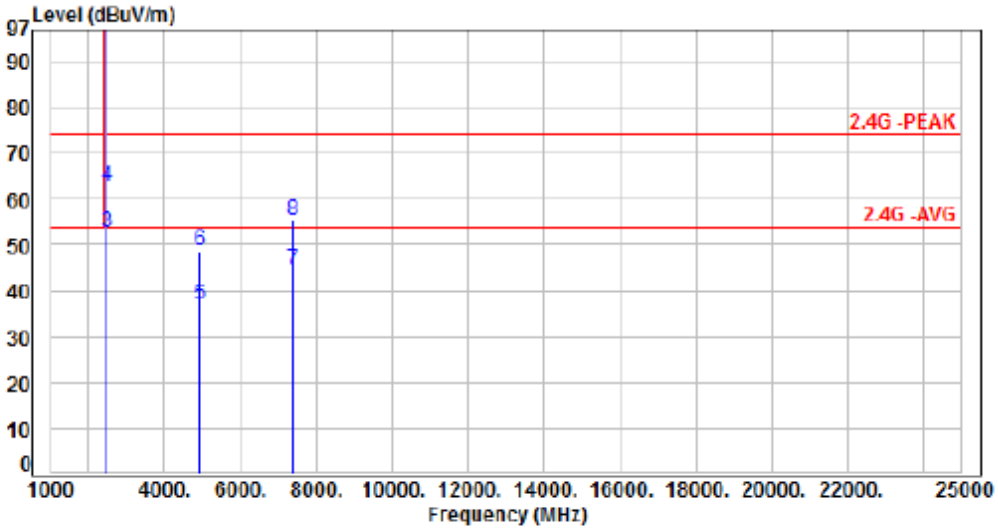


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.29	49.17	54.00	-4.83	Average	117	89	P
2	2390.00	-2.12	62.54	60.42	74.00	-13.58	Peak	117	89	P
3	2437.00	-2.07	124.70	122.63	200.00	-77.37	Average	117	89	P
4	2437.00	-2.07	126.73	124.66	200.00	-75.34	Peak	117	89	P
5	2483.50	-1.98	51.69	49.71	54.00	-4.29	Average	117	89	P
6	2483.50	-1.98	62.40	60.42	74.00	-13.58	Peak	117	89	P
7	4874.00	7.22	29.46	36.68	54.00	-17.32	Average	100	145	P
8	4874.00	7.22	29.25	36.47	74.00	-37.53	Peak	100	145	P
9	7311.00	12.29	36.84	49.13	54.00	-4.87	Average	123	345	P
10	7311.00	12.29	44.98	57.27	74.00	-16.73	Peak	123	345	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH11		:	

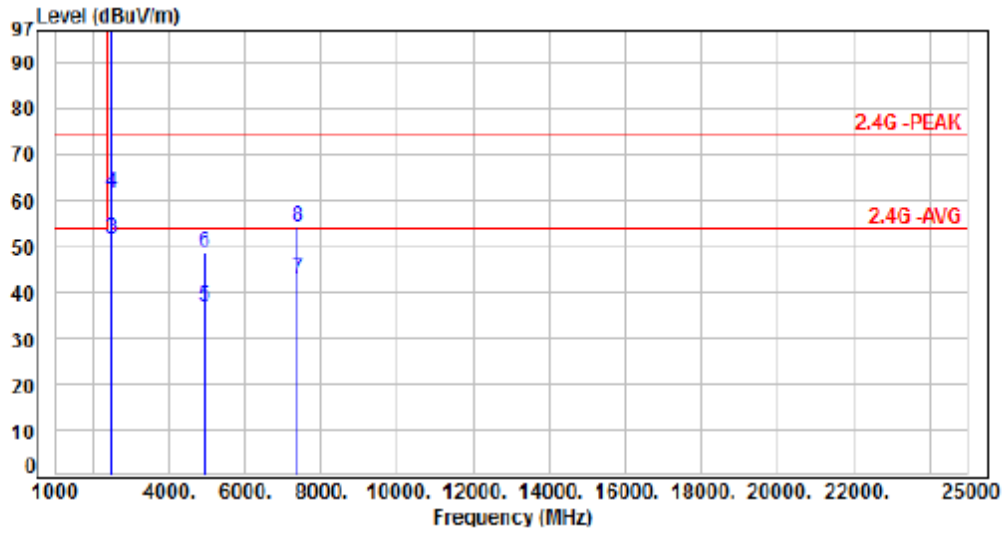


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	120.37	118.35	200.00	-81.65	Average	100	88	P
2	2462.00	-2.02	123.49	121.47	200.00	-78.53	Peak	100	88	P
3	2483.50	-1.98	54.91	52.93	54.00	-1.07	Average	100	88	P
4	2483.50	-1.98	64.66	62.68	74.00	-11.32	Peak	100	88	P
5	4924.00	7.33	29.61	36.94	54.00	-17.06	Average	100	155	P
6	4924.00	7.33	41.33	48.66	74.00	-25.34	Peak	100	155	P
7	7386.00	12.40	32.24	44.64	54.00	-9.36	Average	100	155	P
8	7386.00	12.40	43.02	55.42	74.00	-18.58	Peak	100	155	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH11		:	

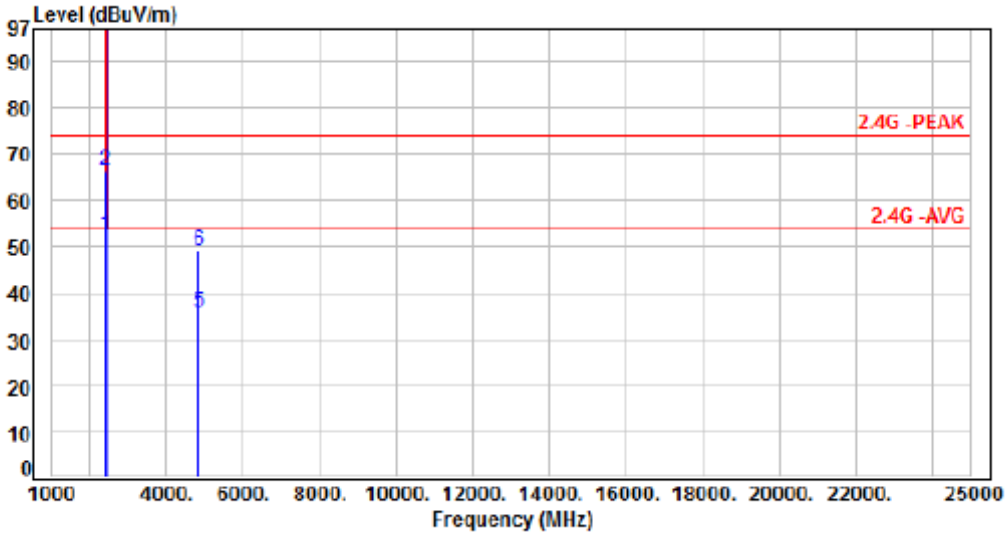


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	118.60	116.58	200.00	-83.42	Average	111	87	P
2	2462.00	-2.02	120.79	118.77	200.00	-81.23	Peak	111	87	P
3	2483.50	-1.98	53.50	51.52	54.00	-2.48	Average	111	87	P
4	2483.50	-1.98	63.64	61.66	74.00	-12.34	Peak	111	87	P
5	4924.00	7.33	29.57	36.90	54.00	-17.10	Average	100	138	P
6	4924.00	7.33	41.47	48.80	74.00	-25.20	Peak	100	138	P
7	7386.00	12.40	30.32	42.72	54.00	-11.28	Average	100	158	P
8	7386.00	12.40	41.91	54.31	74.00	-19.69	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH01		:	

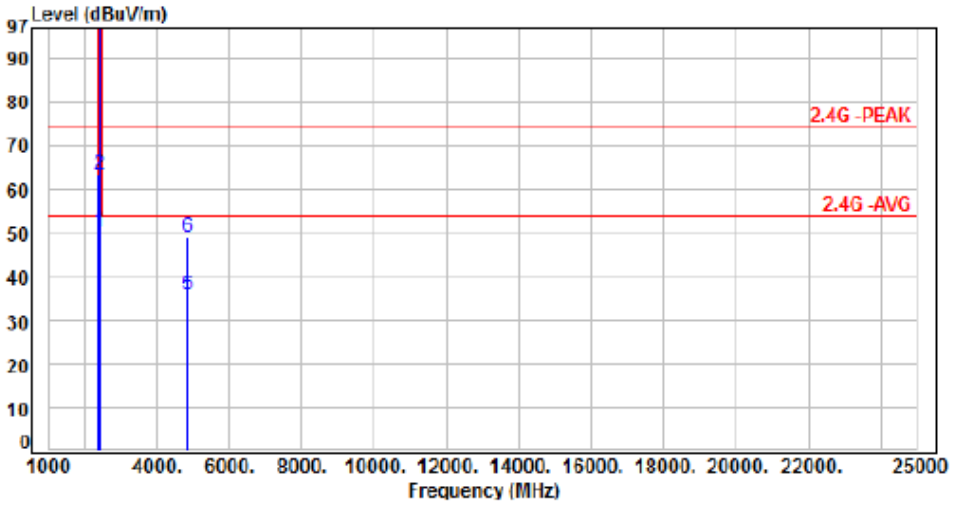


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.64	52.52	54.00	-1.48	Average	100	88	P
2	2390.00	-2.12	68.63	66.51	74.00	-7.49	Peak	100	88	P
3	2412.00	-2.10	112.75	110.65	200.00	-89.35	Average	100	88	P
4	2412.00	-2.10	122.98	120.88	200.00	-79.12	Peak	100	88	P
5	4824.00	6.95	28.88	35.83	54.00	-18.17	Average	100	156	P
6	4824.00	6.95	42.17	49.12	74.00	-24.88	Peak	100	156	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01		:	

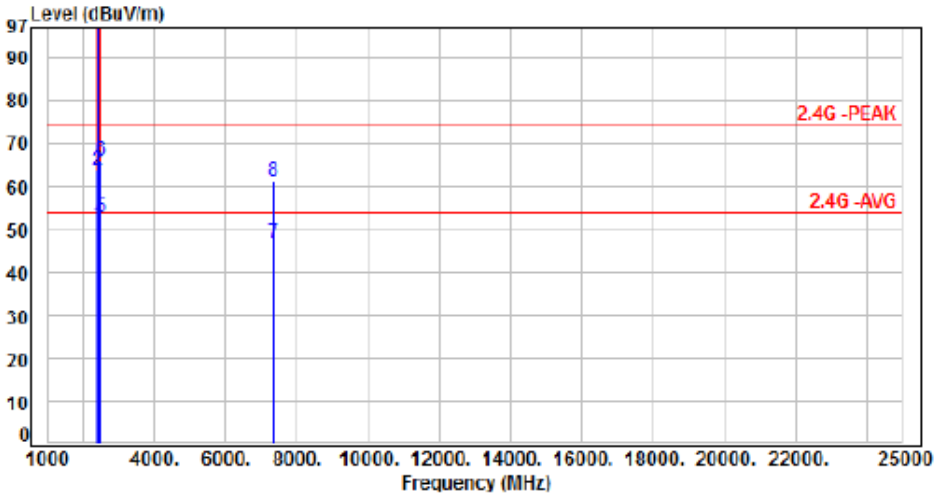


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.35	50.23	54.00	-3.77	Average	117	89	P
2	2390.00	-2.12	65.70	63.58	74.00	-10.42	Peak	117	89	P
3	2412.00	-2.10	111.44	109.34	200.00	-90.66	Average	117	89	P
4	2412.00	-2.10	121.81	119.71	200.00	-80.29	Peak	117	89	P
5	4824.00	6.95	28.78	35.73	54.00	-18.27	Average	100	158	P
6	4824.00	6.95	41.93	48.88	74.00	-25.12	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH06		:	

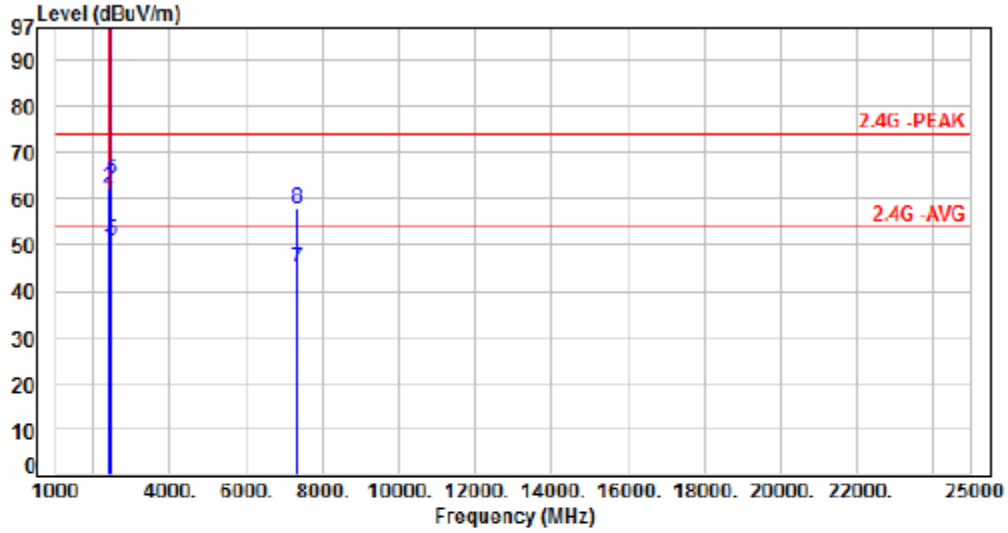


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.38	51.26	54.00	-2.74	Average	100	88	P
2	2390.00	-2.12	66.08	63.96	74.00	-10.04	Peak	100	88	P
3	2437.00	-2.07	120.11	118.04	200.00	-81.96	Average	100	88	P
4	2437.00	-2.07	130.25	128.18	200.00	-71.82	Peak	100	88	P
5	2483.50	-1.98	54.86	52.88	54.00	-1.12	Average	100	88	P
6	2483.50	-1.98	67.87	65.89	74.00	-8.11	Peak	100	88	P
7	7311.00	12.29	34.73	47.02	54.00	-6.98	Average	100	323	P
8	7311.00	12.29	48.86	61.15	74.00	-12.85	Peak	100	323	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH06		:	

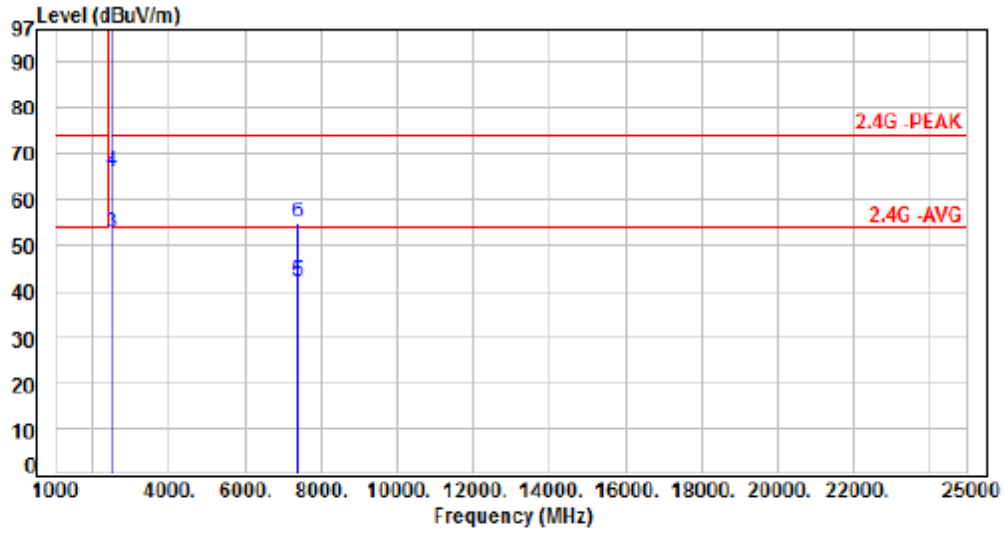


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.67	49.55	54.00	-4.45	Average	117	87	P
2	2390.00	-2.12	64.47	62.35	74.00	-11.65	Peak	117	87	P
3	2437.00	-2.07	118.90	116.83	200.00	-83.17	Average	117	87	P
4	2437.00	-2.07	129.25	127.18	200.00	-72.82	Peak	117	87	P
5	2483.50	-1.98	52.79	50.81	54.00	-3.19	Average	117	87	P
6	2483.50	-1.98	66.02	64.04	74.00	-9.96	Peak	117	87	P
7	7311.00	12.29	32.67	44.96	54.00	-9.04	Average	148	344	P
8	7311.00	12.29	45.73	58.02	74.00	-15.98	Peak	148	344	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH11		:	

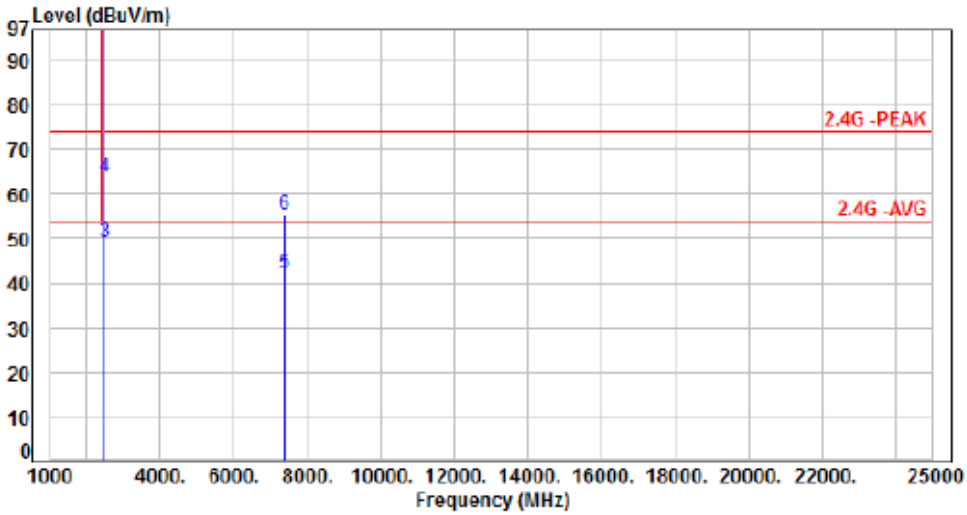


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	111.38	109.36	200.00	-90.64	Average	100	88	P
2	2462.00	-2.02	122.07	120.05	200.00	-79.95	Peak	100	88	P
3	2483.50	-1.98	54.59	52.61	54.00	-1.39	Average	100	88	P
4	2483.50	-1.98	68.15	66.17	74.00	-7.83	Peak	100	88	P
5	7386.00	12.40	29.73	42.13	54.00	-11.87	Average	100	337	P
6	7386.00	12.40	42.53	54.93	74.00	-19.07	Peak	100	337	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH11		:	

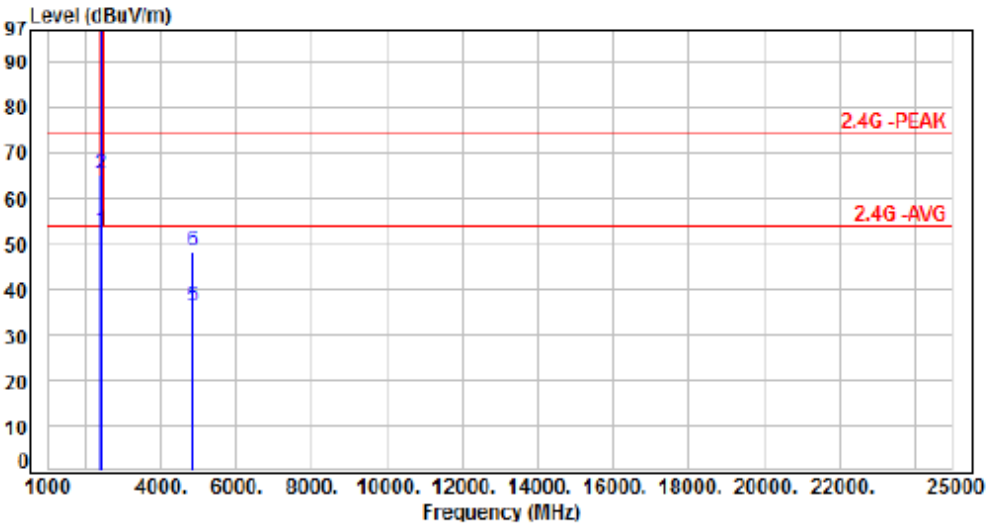


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	110.35	108.33	200.00	-91.67	Average	112	87	P
2	2462.00	-2.02	120.92	118.90	200.00	-81.10	Peak	112	87	P
3	2483.50	-1.98	51.17	49.19	54.00	-4.81	Average	112	87	P
4	2483.50	-1.98	65.96	63.98	74.00	-10.02	Peak	112	87	P
5	7386.00	12.40	29.67	42.07	54.00	-11.93	Average	100	332	P
6	7386.00	12.40	43.03	55.43	74.00	-18.57	Peak	100	332	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH01		:	

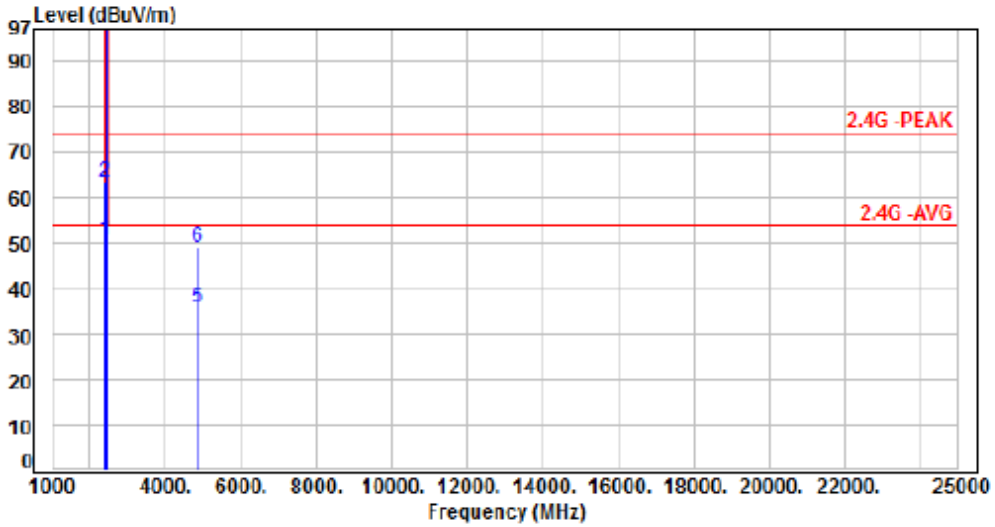


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.83	52.71	54.00	-1.29	Average	100	87	P
2	2390.00	-2.12	67.43	65.31	74.00	-8.69	Peak	100	87	P
3	2412.00	-2.10	111.17	109.07	200.00	-90.93	Average	100	87	P
4	2412.00	-2.10	123.89	121.79	200.00	-78.21	Peak	100	87	P
5	4824.00	6.95	29.01	35.96	54.00	-18.04	Average	100	336	P
6	4824.00	6.95	41.37	48.32	74.00	-25.68	Peak	100	336	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01		:	

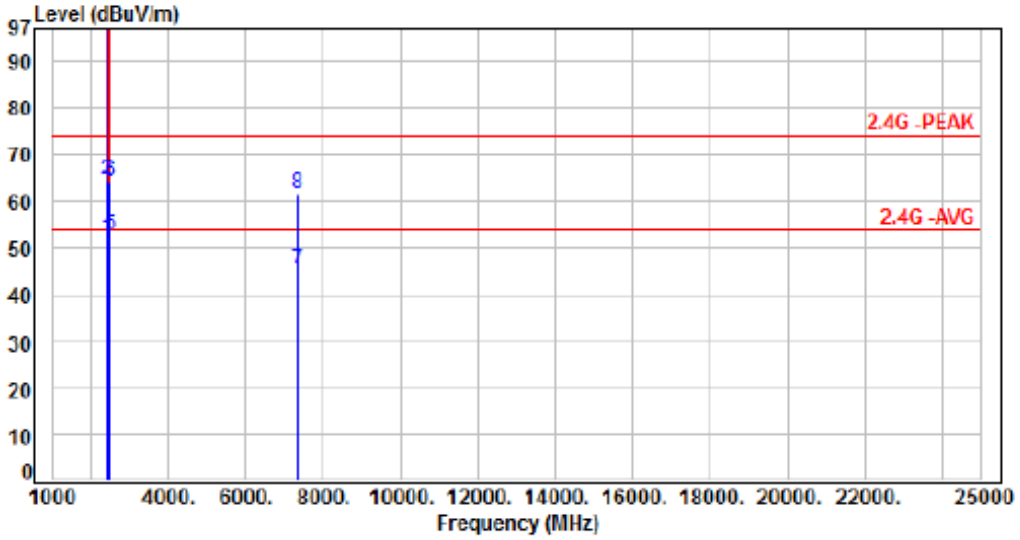


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.78	50.66	54.00	-3.34	Average	115	88	P
2	2390.00	-2.12	65.71	63.59	74.00	-10.41	Peak	115	88	P
3	2412.00	-2.10	109.66	107.56	200.00	-92.44	Average	115	88	P
4	2412.00	-2.10	123.41	121.31	200.00	-78.69	Peak	115	88	P
5	4824.00	6.95	28.75	35.70	54.00	-18.30	Average	100	334	P
6	4824.00	6.95	42.18	49.13	74.00	-24.87	Peak	100	334	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH06		:	

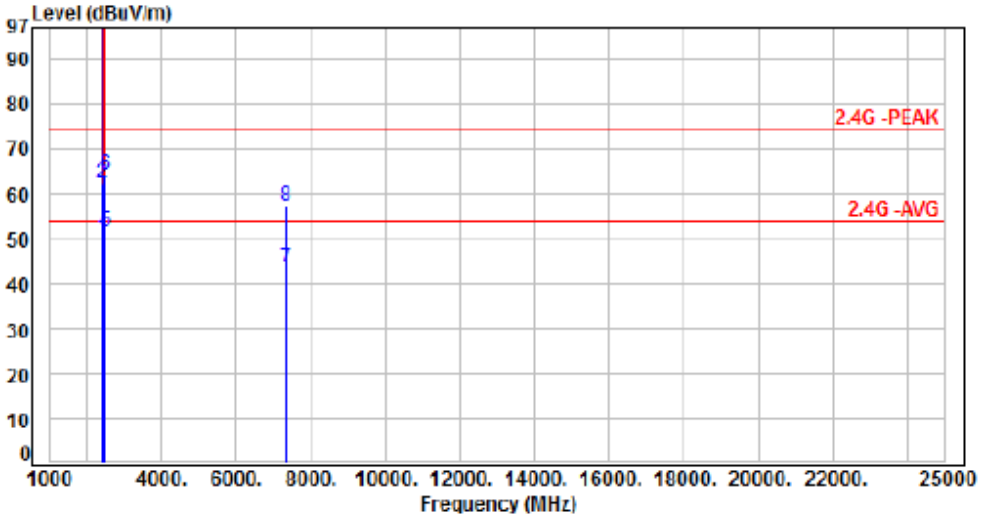


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.18	52.06	54.00	-1.94	Average	100	89	P
2	2390.00	-2.12	66.80	64.68	74.00	-9.32	Peak	100	89	P
3	2437.00	-2.07	119.30	117.23	200.00	-82.77	Average	100	89	P
4	2437.00	-2.07	131.40	129.33	200.00	-70.67	Peak	100	89	P
5	2483.50	-1.98	54.69	52.71	54.00	-1.29	Average	100	89	P
6	2483.50	-1.98	66.28	64.30	74.00	-9.70	Peak	100	89	P
7	7311.00	12.29	33.11	45.40	54.00	-8.60	Average	100	323	P
8	7311.00	12.29	49.47	61.76	74.00	-12.24	Peak	100	323	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH06		:	

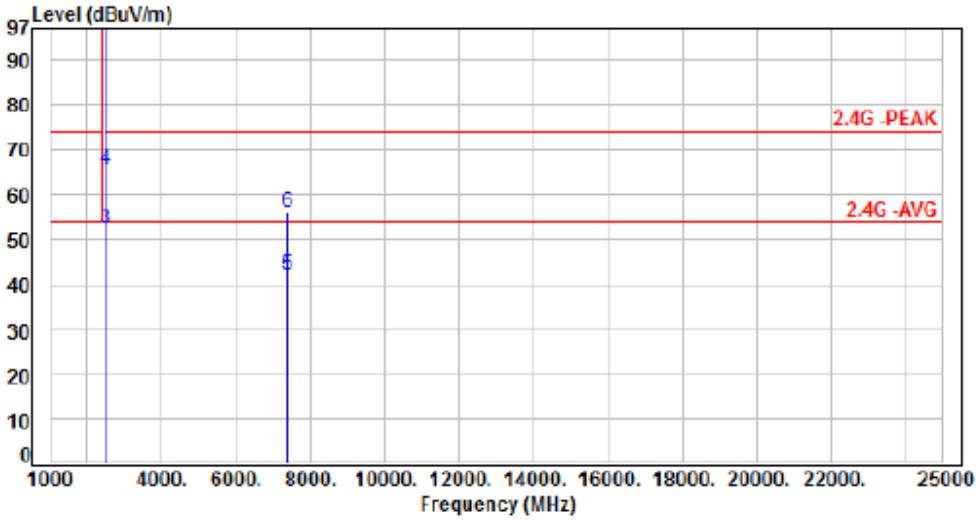


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.29	50.17	54.00	-3.83	Average	118	87	P
2	2390.00	-2.12	64.54	62.42	74.00	-11.58	Peak	118	87	P
3	2437.00	-2.07	118.17	116.10	200.00	-83.90	Average	118	87	P
4	2437.00	-2.07	130.40	128.33	200.00	-71.67	Peak	118	87	P
5	2483.50	-1.98	53.74	51.76	54.00	-2.24	Average	118	87	P
6	2483.50	-1.98	66.14	64.16	74.00	-9.84	Peak	118	87	P
7	7311.00	12.29	31.17	43.46	54.00	-10.54	Average	143	341	P
8	7311.00	12.29	44.97	57.26	74.00	-16.74	Peak	143	341	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH11		:	

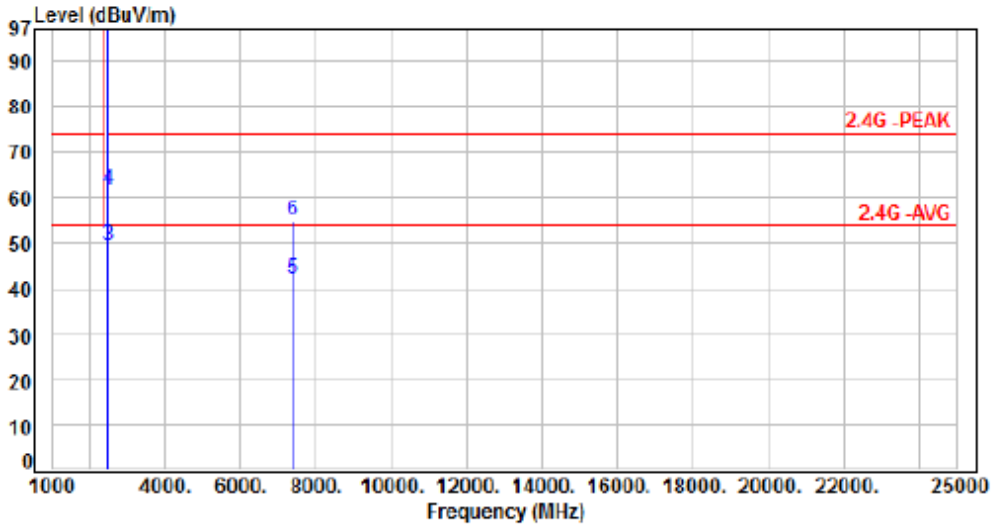


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	109.52	107.50	200.00	-92.50	Average	100	88	P
2	2462.00	-2.02	122.26	120.24	200.00	-79.76	Peak	100	88	P
3	2483.50	-1.98	54.48	52.50	54.00	-1.50	Average	100	88	P
4	2483.50	-1.98	67.65	65.67	74.00	-8.33	Peak	100	88	P
5	7386.00	12.40	29.69	42.09	54.00	-11.91	Average	100	334	P
6	7386.00	12.40	43.52	55.92	74.00	-18.08	Peak	100	334	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH11		:	

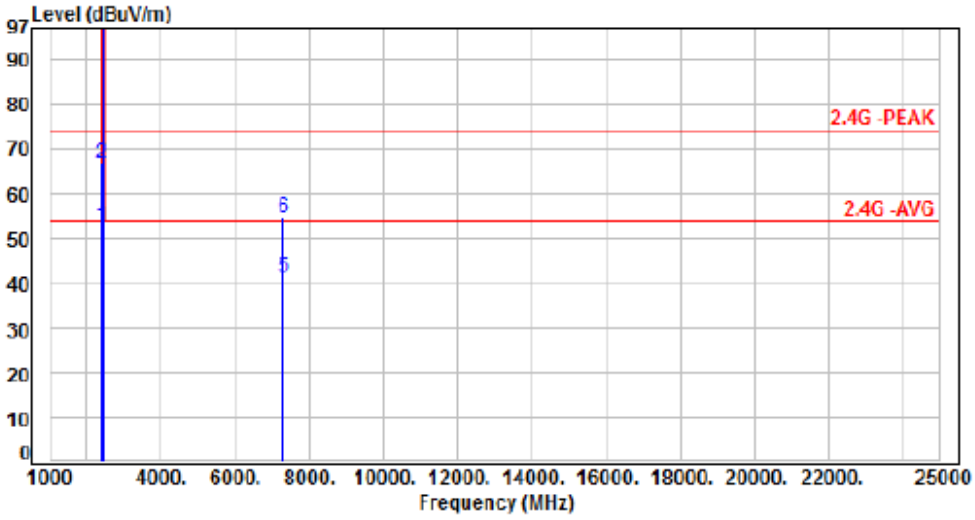


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	108.57	106.55	200.00	-93.45	Average	112	87	P
2	2462.00	-2.02	120.88	118.86	200.00	-81.14	Peak	112	87	P
3	2483.50	-1.98	51.26	49.28	54.00	-4.72	Average	112	87	P
4	2483.50	-1.98	63.67	61.69	74.00	-12.31	Peak	112	87	P
5	7386.00	12.40	29.58	41.98	54.00	-12.02	Average	112	87	P
6	7386.00	12.40	42.58	54.98	74.00	-19.02	Peak	112	87	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH03		:	

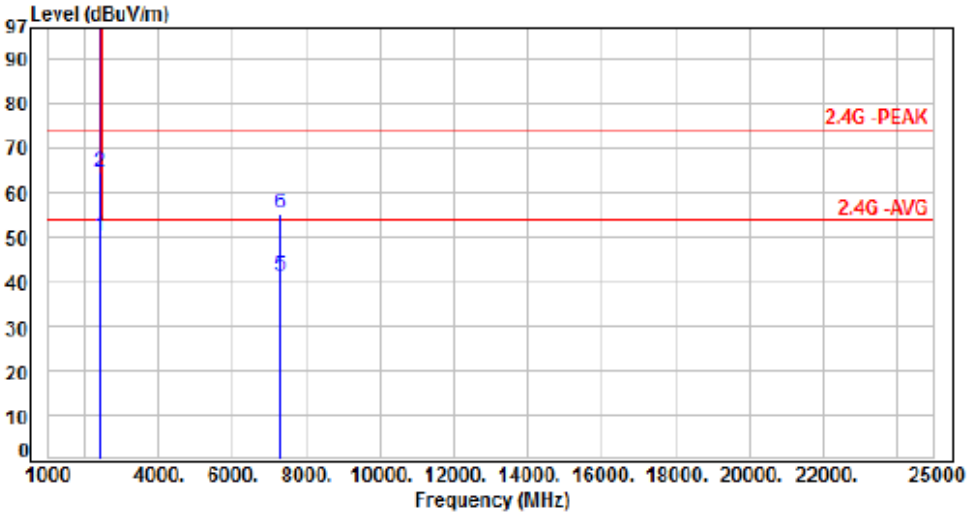


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.81	52.69	54.00	-1.31	Average	100	88	P
2	2390.00	-2.12	68.89	66.77	74.00	-7.23	Peak	100	88	P
3	2422.00	-2.08	106.10	104.02	200.00	-95.98	Average	100	88	P
4	2422.00	-2.08	118.67	116.59	200.00	-83.41	Peak	100	88	P
5	7266.00	12.18	29.29	41.47	54.00	-12.53	Average	100	331	P
6	7266.00	12.18	42.51	54.69	74.00	-19.31	Peak	100	331	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH03		:	

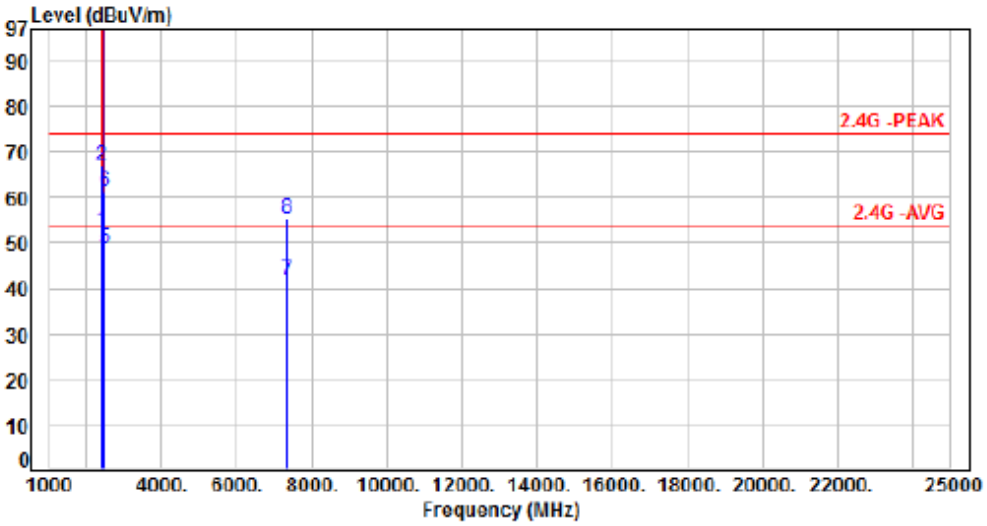


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.17	50.05	54.00	-3.95	Average	120	88	P
2	2390.00	-2.12	66.73	64.61	74.00	-9.39	Peak	120	88	P
3	2422.00	-2.08	104.34	102.26	200.00	-97.74	Average	120	88	P
4	2422.00	-2.08	116.57	114.49	200.00	-85.51	Peak	120	88	P
5	7266.00	12.18	29.27	41.45	54.00	-12.55	Average	120	88	P
6	7266.00	12.18	43.01	55.19	74.00	-18.81	Peak	120	88	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH06		:	

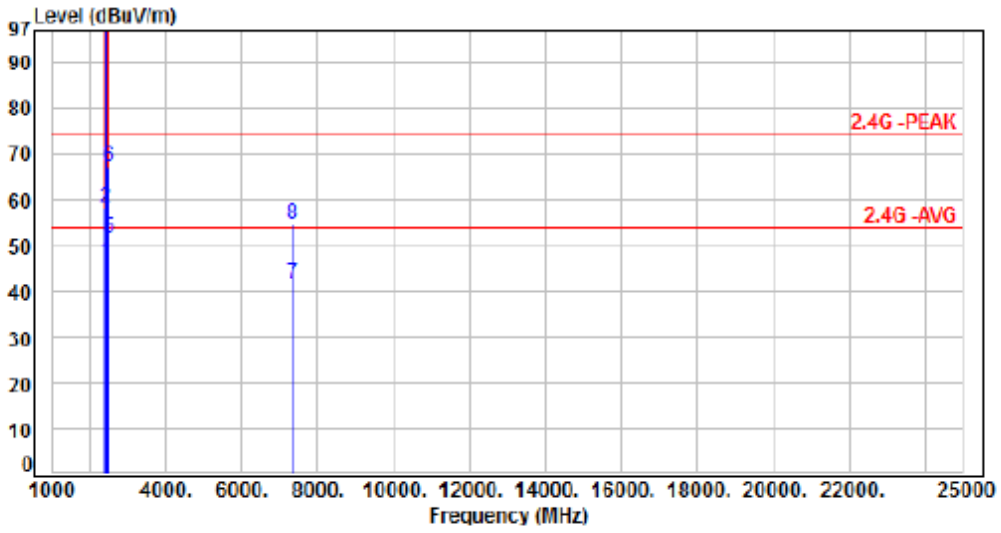


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.68	52.56	54.00	-1.44	Average	100	88	P
2	2390.00	-2.12	69.11	66.99	74.00	-7.01	Peak	100	88	P
3	2437.00	-2.07	108.93	106.86	200.00	-93.14	Average	100	88	P
4	2437.00	-2.07	122.17	120.10	200.00	-79.90	Peak	100	88	P
5	2483.50	-1.98	50.80	48.82	54.00	-5.18	Average	100	88	P
6	2483.50	-1.98	63.34	61.36	74.00	-12.64	Peak	100	88	P
7	7311.00	12.29	29.37	41.66	54.00	-12.34	Average	100	334	P
8	7311.00	12.29	43.00	55.29	74.00	-18.71	Peak	100	334	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH06		:	

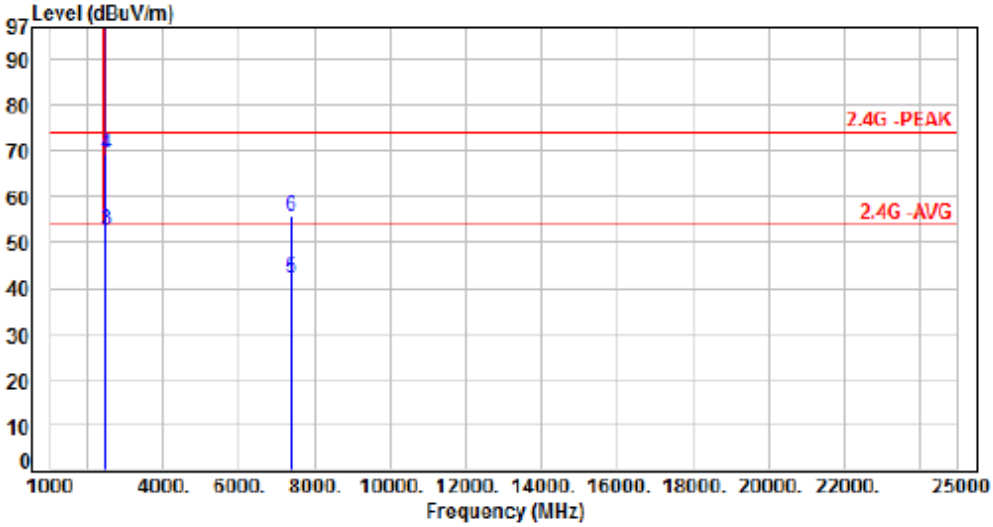


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	48.43	46.31	54.00	-7.69	Average	116	88	P
2	2390.00	-2.12	60.57	58.45	74.00	-15.55	Peak	116	88	P
3	2437.00	-2.07	106.91	104.84	200.00	-95.16	Average	116	88	P
4	2437.00	-2.07	121.23	119.16	200.00	-80.84	Peak	116	88	P
5	2483.50	-1.98	53.50	51.52	54.00	-2.48	Average	116	88	P
6	2483.50	-1.98	69.01	67.03	74.00	-6.97	Peak	116	88	P
7	7311.00	12.29	29.38	41.67	54.00	-12.33	Average	100	339	P
8	7311.00	12.29	42.27	54.56	74.00	-19.44	Peak	100	339	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH09		:	

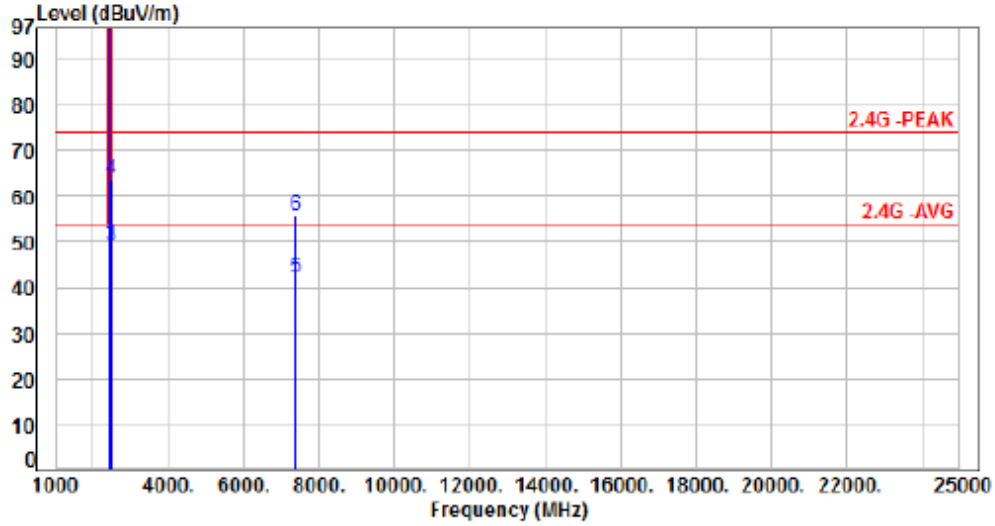


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	105.49	103.44	200.00	-96.56	Average	100	88	P
2	2452.00	-2.05	118.85	116.80	200.00	-83.20	Peak	100	88	P
3	2483.50	-1.98	54.57	52.59	54.00	-1.41	Average	100	88	P
4	2483.50	-1.98	71.29	69.31	74.00	-4.69	Peak	100	88	P
5	7356.00	12.39	29.48	41.87	54.00	-12.13	Average	100	333	P
6	7356.00	12.39	43.31	55.70	74.00	-18.30	Peak	100	333	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH09		:	

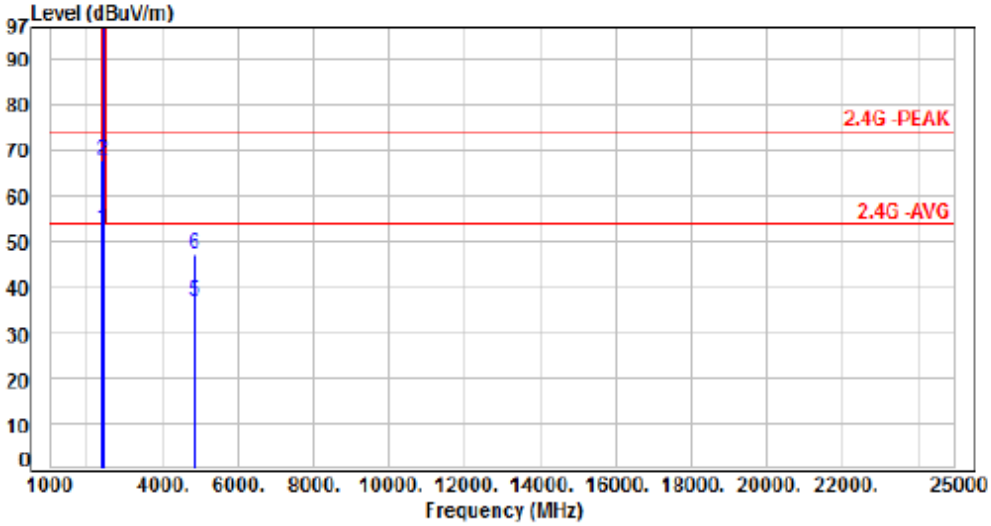


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	103.08	101.03	200.00	-98.97	Average	100	88	P
2	2452.00	-2.05	115.54	113.49	200.00	-86.51	Peak	100	88	P
3	2483.50	-1.98	51.02	49.04	54.00	-4.96	Average	100	88	P
4	2483.50	-1.98	65.80	63.82	74.00	-10.18	Peak	100	88	P
5	7356.00	12.39	29.82	42.21	54.00	-11.79	Average	100	334	P
6	7356.00	12.39	43.20	55.59	74.00	-18.41	Peak	100	334	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH01		:	

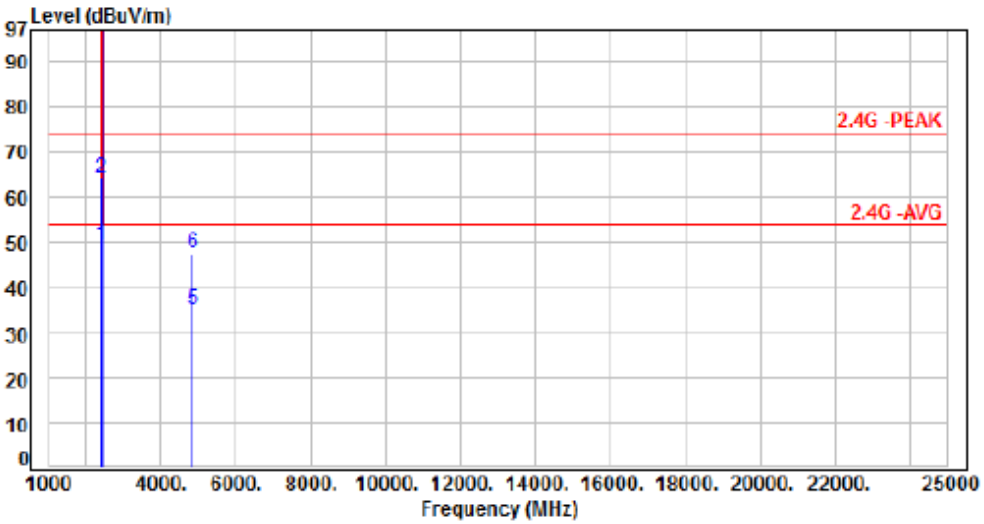


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.77	52.65	54.00	-1.35	Average	100	83	P
2	2390.00	-2.12	70.13	68.01	74.00	-5.99	Peak	100	83	P
3	2412.00	-2.10	113.61	111.51	200.00	-88.49	Average	100	83	P
4	2412.00	-2.10	120.52	118.42	200.00	-81.58	Peak	100	83	P
5	4824.00	6.95	29.97	36.92	54.00	-17.08	Average	100	341	P
6	4824.00	6.95	40.26	47.21	74.00	-26.79	Peak	100	341	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH01		:	

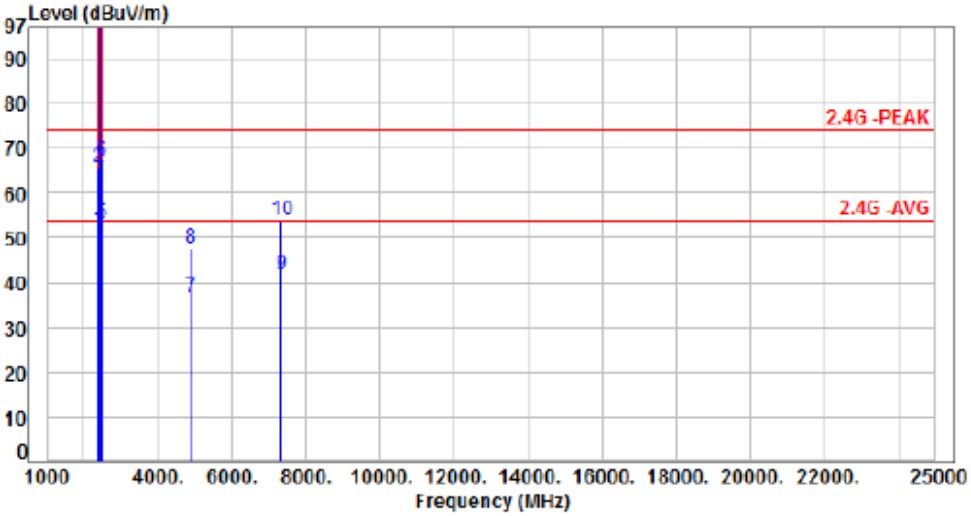


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.47	49.35	54.00	-4.65	Average	140	85	P
2	2390.00	-2.12	66.46	64.34	74.00	-9.66	Peak	140	85	P
3	2412.00	-2.10	111.44	109.34	200.00	-90.66	Average	140	85	P
4	2412.00	-2.10	119.71	117.61	200.00	-82.39	Peak	140	85	P
5	4824.00	6.95	28.21	35.16	54.00	-18.84	Average	100	91	P
6	4824.00	6.95	40.66	47.61	74.00	-26.39	Peak	100	91	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH06		:	

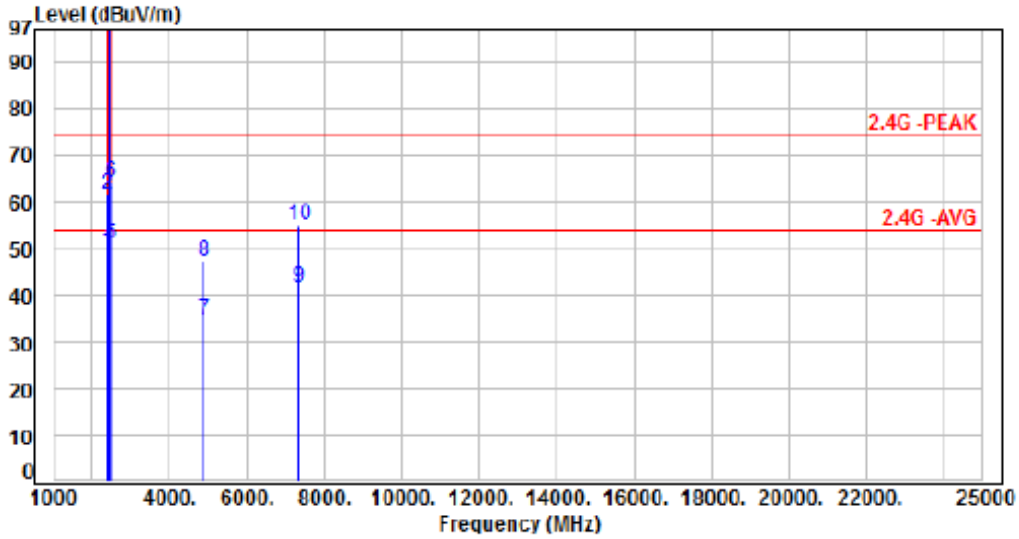


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.87	51.75	54.00	-2.25	Average	100	85	P
2	2390.00	-2.12	67.74	65.62	74.00	-8.38	Peak	100	85	P
3	2437.00	-2.07	123.56	121.49	200.00	-78.51	Average	100	85	P
4	2437.00	-2.07	129.08	127.01	200.00	-72.99	Peak	100	85	P
5	2483.50	-1.98	54.95	52.97	54.00	-1.03	Average	100	85	P
6	2483.50	-1.98	69.01	67.03	74.00	-6.97	Peak	100	85	P
7	4874.00	7.22	29.27	36.49	54.00	-17.51	Average	100	165	P
8	4874.00	7.22	40.39	47.61	74.00	-26.39	Peak	100	165	P
9	7311.00	12.29	29.43	41.72	54.00	-12.28	Average	100	208	P
10	7311.00	12.29	41.46	53.75	74.00	-20.25	Peak	100	208	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH06		:	

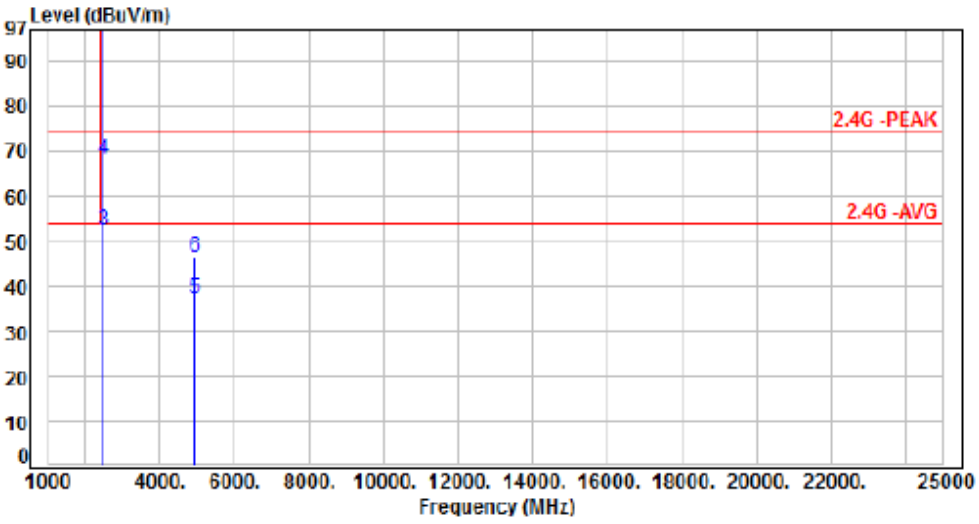


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.47	49.35	54.00	-4.65	Average	141	86	P
2	2390.00	-2.12	63.79	61.67	74.00	-12.33	Peak	141	86	P
3	2437.00	-2.07	121.81	119.74	200.00	-80.26	Average	141	86	P
4	2437.00	-2.07	127.15	125.08	200.00	-74.92	Peak	141	86	P
5	2483.50	-1.98	53.04	51.06	54.00	-2.94	Average	141	86	P
6	2483.50	-1.98	66.19	64.21	74.00	-9.79	Peak	141	86	P
7	4874.00	7.22	27.55	34.77	54.00	-19.23	Average	100	158	P
8	4874.00	7.22	39.88	47.10	74.00	-26.90	Peak	100	158	P
9	7311.00	12.29	29.27	41.56	54.00	-12.44	Average	100	298	P
10	7311.00	12.29	42.49	54.78	74.00	-19.22	Peak	100	298	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH11		:	

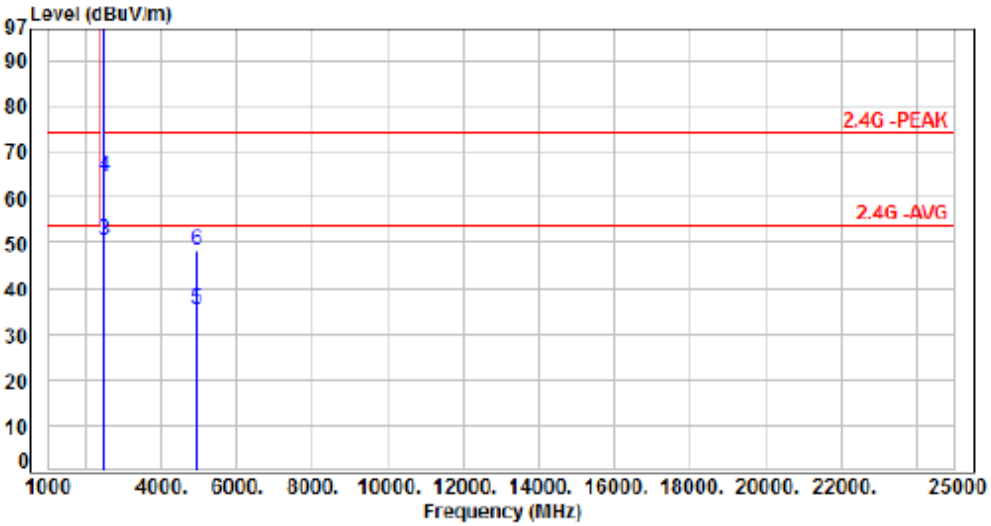


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	113.71	111.69	200.00	-88.31	Average	100	83	P
2	2462.00	-2.02	119.29	117.27	200.00	-82.73	Peak	100	83	P
3	2483.50	-1.98	54.41	52.43	54.00	-1.57	Average	100	83	P
4	2483.50	-1.98	70.05	68.07	74.00	-5.93	Peak	100	83	P
5	4924.00	7.33	29.92	37.25	54.00	-16.75	Average	100	185	P
6	4924.00	7.33	39.15	46.48	74.00	-27.52	Peak	100	185	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH11		:	

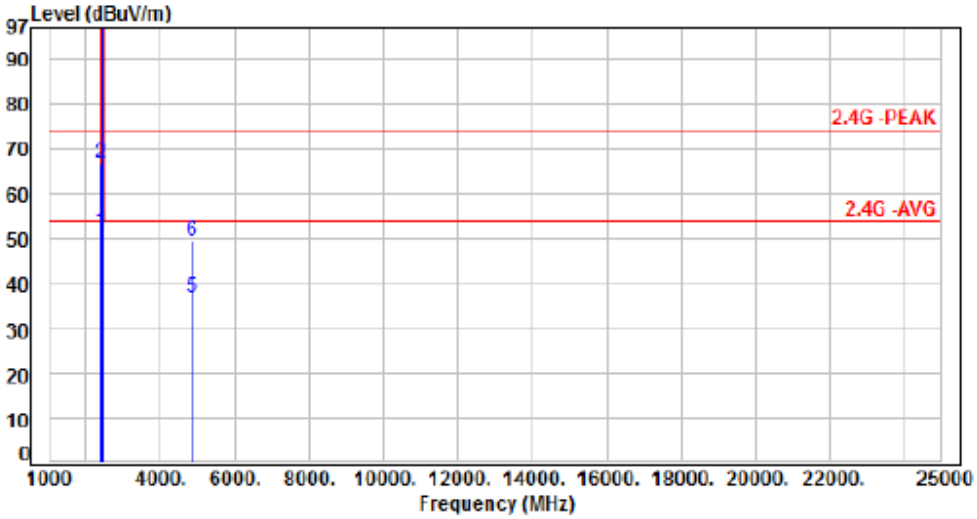


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	110.79	108.77	200.00	-91.23	Average	141	83	P
2	2462.00	-2.02	118.75	116.73	200.00	-83.27	Peak	141	83	P
3	2483.50	-1.98	52.45	50.47	54.00	-3.53	Average	141	83	P
4	2483.50	-1.98	66.62	64.64	74.00	-9.36	Peak	141	83	P
5	4924.00	7.33	27.93	35.26	54.00	-18.74	Average	100	344	P
6	4924.00	7.33	40.96	48.29	74.00	-25.71	Peak	100	344	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH03		:	

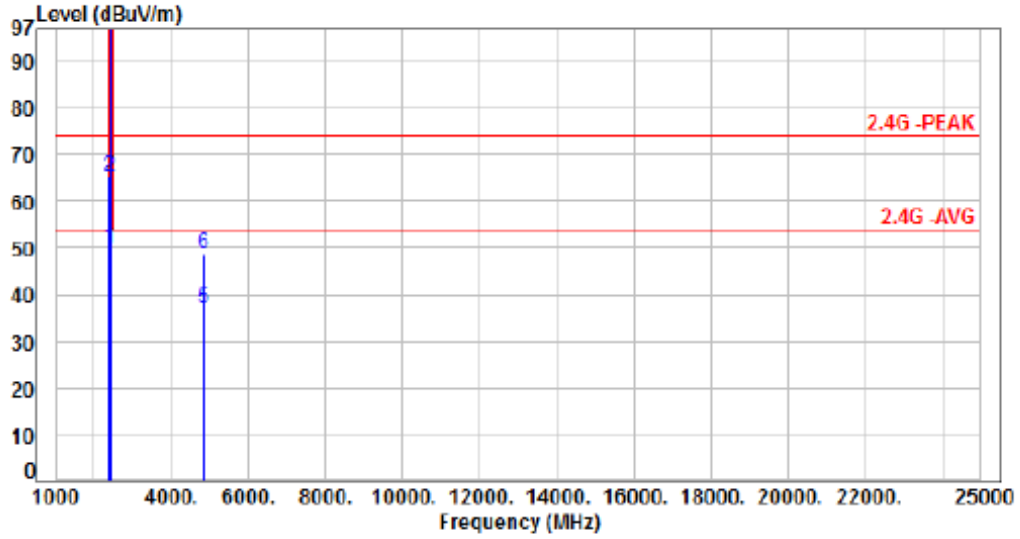


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.66	51.54	54.00	-2.46	Average	100	83	P
2	2390.00	-2.12	68.88	66.76	74.00	-7.24	Peak	100	83	P
3	2422.00	-2.08	111.16	109.08	200.00	-90.92	Average	100	83	P
4	2422.00	-2.08	115.78	113.70	200.00	-86.30	Peak	100	83	P
5	4844.00	7.09	29.87	36.96	54.00	-17.04	Average	100	246	P
6	4844.00	7.09	42.37	49.46	74.00	-24.54	Peak	100	246	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH03		:	

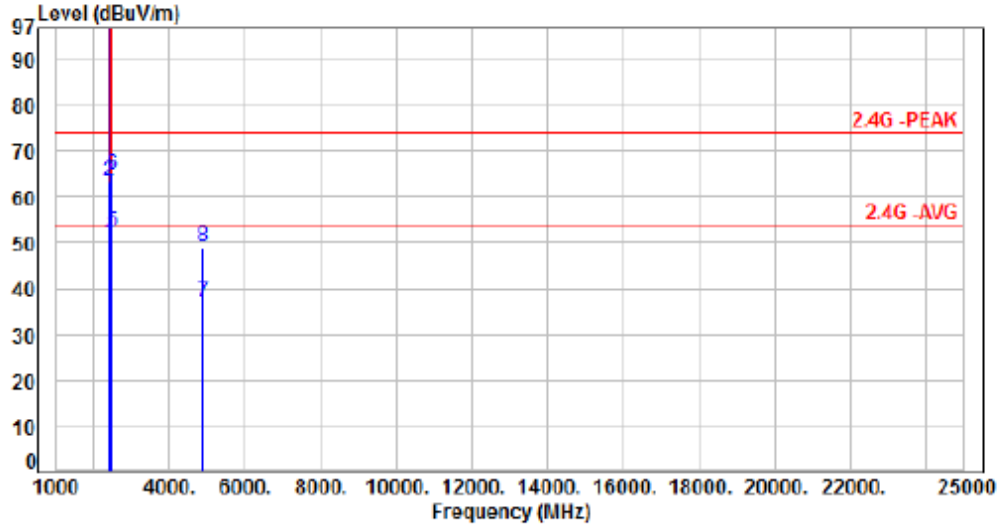


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.78	49.66	54.00	-4.34	Average	140	84	P
2	2390.00	-2.12	67.58	65.46	74.00	-8.54	Peak	140	84	P
3	2422.00	-2.08	110.91	108.83	200.00	-91.17	Average	140	84	P
4	2422.00	-2.08	114.42	112.34	200.00	-87.66	Peak	140	84	P
5	4844.00	7.09	29.67	36.76	54.00	-17.24	Average	100	124	P
6	4844.00	7.09	41.64	48.73	74.00	-25.27	Peak	100	124	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH06		:	

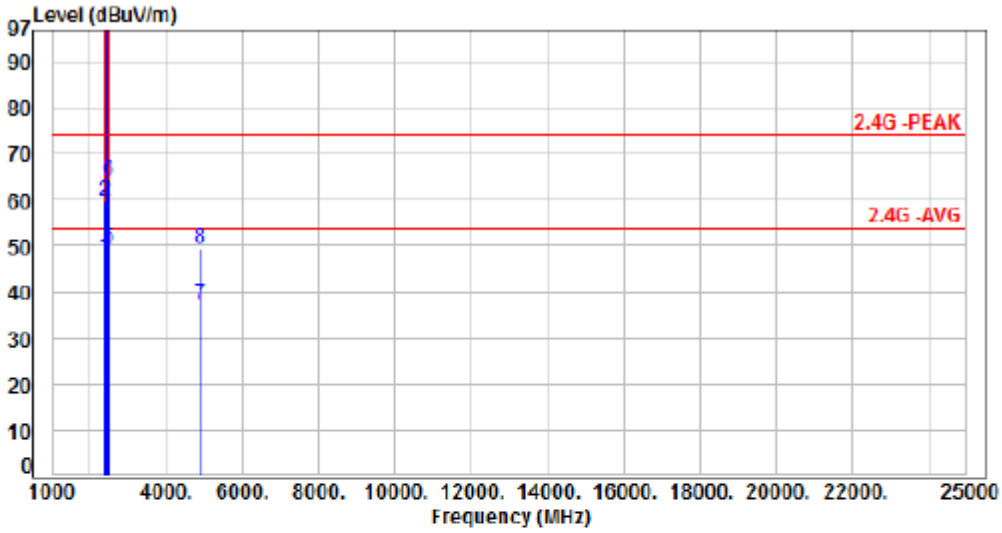


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.08	49.96	54.00	-4.04	Average	100	85	P
2	2390.00	-2.12	65.38	63.26	74.00	-10.74	Peak	100	85	P
3	2437.00	-2.07	115.14	113.07	200.00	-86.93	Average	100	85	P
4	2437.00	-2.07	118.15	116.08	200.00	-83.92	Peak	100	85	P
5	2483.50	-1.98	54.50	52.52	54.00	-1.48	Average	100	85	P
6	2483.50	-1.98	66.93	64.95	74.00	-9.05	Peak	100	85	P
7	4874.00	7.22	29.79	37.01	54.00	-16.99	Average	100	64	P
8	4874.00	7.22	41.99	49.21	74.00	-24.79	Peak	100	64	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH06		:	

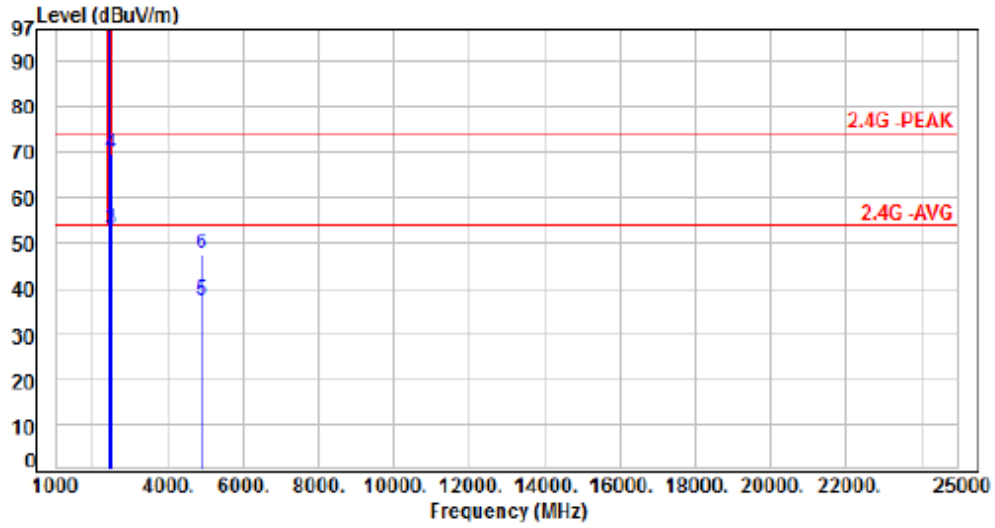


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	49.74	47.62	54.00	-6.38	Average	139	83	P
2	2390.00	-2.12	61.75	59.63	74.00	-14.37	Peak	139	83	P
3	2437.00	-2.07	112.94	110.87	200.00	-89.13	Average	139	83	P
4	2437.00	-2.07	116.92	114.85	200.00	-85.15	Peak	139	83	P
5	2483.50	-1.98	51.55	49.57	54.00	-4.43	Average	139	83	P
6	2483.50	-1.98	66.10	64.12	74.00	-9.88	Peak	139	83	P
7	4874.00	7.22	30.13	37.35	54.00	-16.65	Average	100	146	P
8	4874.00	7.22	42.33	49.55	74.00	-24.45	Peak	100	146	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH09		:	

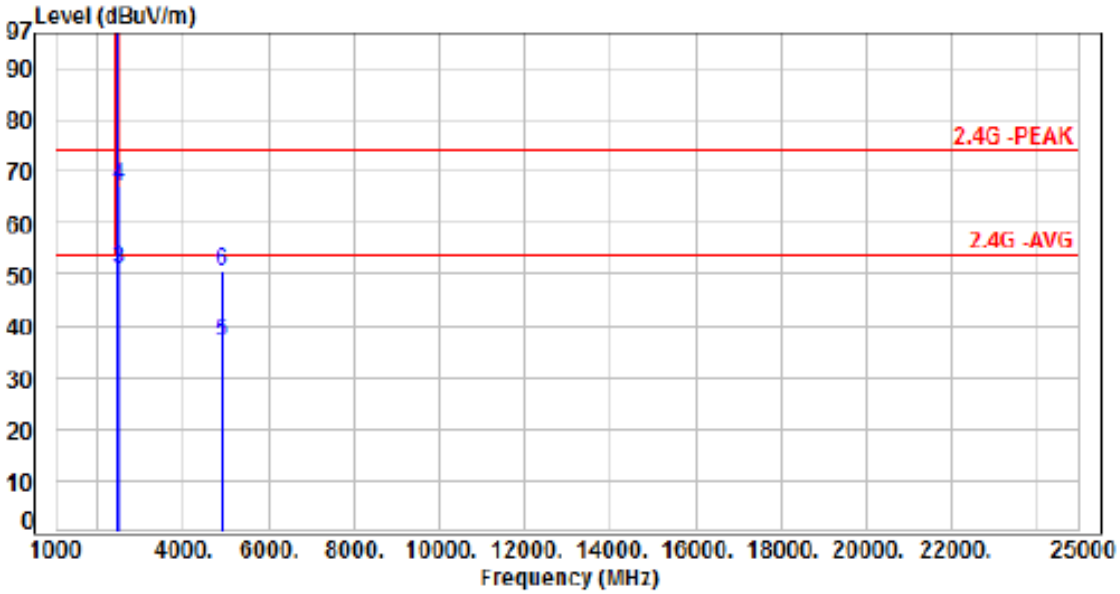


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	112.14	110.09	200.00	-89.91	Average	100	83	P
2	2452.00	-2.05	115.79	113.74	200.00	-86.26	Peak	100	83	P
3	2483.50	-1.98	54.92	52.94	54.00	-1.06	Average	100	83	P
4	2483.50	-1.98	71.69	69.71	74.00	-4.29	Peak	100	83	P
5	4904.00	7.31	29.76	37.07	54.00	-16.93	Average	100	311	P
6	4904.00	7.31	40.34	47.65	74.00	-26.35	Peak	100	311	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- Sector Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH09		:	

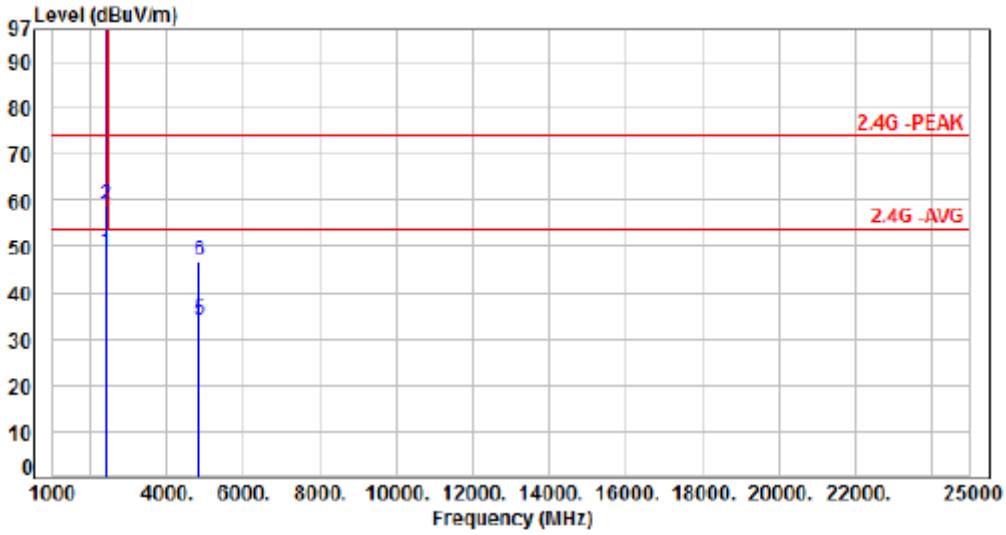


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	110.87	108.82	200.00	-91.18	Average	139	83	P
2	2452.00	-2.05	114.75	112.70	200.00	-87.30	Peak	139	83	P
3	2483.50	-1.98	52.83	50.85	54.00	-3.15	Average	139	83	P
4	2483.50	-1.98	69.12	67.14	74.00	-6.86	Peak	139	83	P
5	4904.00	7.31	29.46	36.77	54.00	-17.23	Average	100	167	P
6	4904.00	7.31	43.12	50.43	74.00	-23.57	Peak	100	167	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE(120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH01		:	

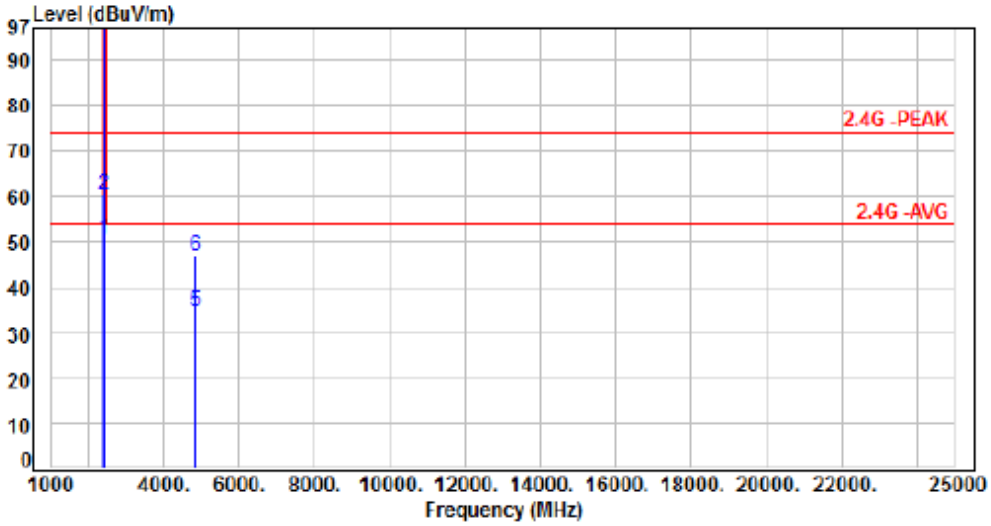


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	50.76	48.64	54.00	-5.36	Average	180	360	P
2	2390.00	-2.12	61.02	58.90	74.00	-15.10	Peak	180	360	P
3	2412.00	-2.10	120.41	118.31	200.00	-81.69	Average	180	360	P
4	2412.00	-2.10	122.61	120.51	200.00	-79.49	Peak	180	360	P
5	4824.00	6.95	27.07	34.02	54.00	-19.98	Average	100	321	P
6	4824.00	6.95	39.85	46.80	74.00	-27.20	Peak	100	321	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH01		:	

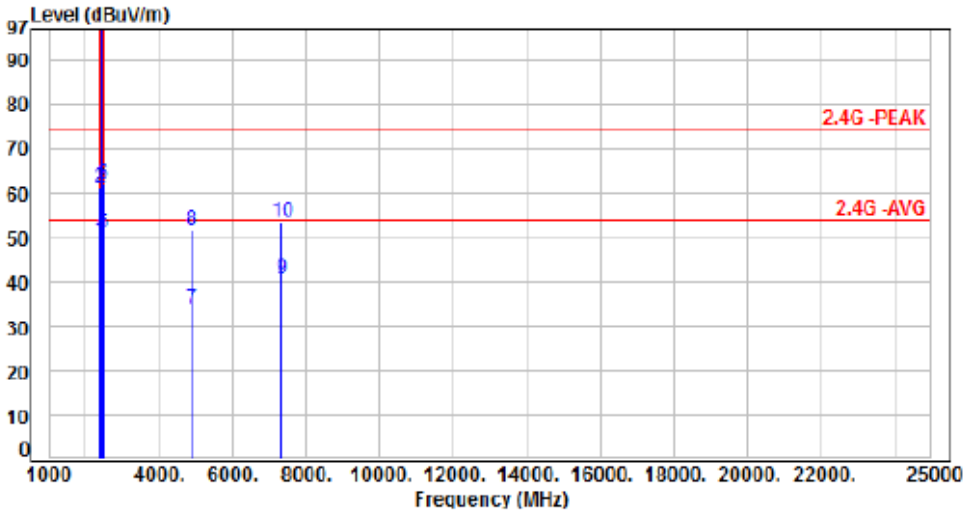


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.72	50.60	54.00	-3.40	Average	151	340	P
2	2390.00	-2.12	62.74	60.62	74.00	-13.38	Peak	151	340	P
3	2412.00	-2.10	120.80	118.70	200.00	-81.30	Average	151	340	P
4	2412.00	-2.10	123.17	121.07	200.00	-78.93	Peak	151	340	P
5	4824.00	6.95	27.88	34.83	54.00	-19.17	Average	100	158	P
6	4824.00	6.95	39.96	46.91	74.00	-27.09	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH06		:	

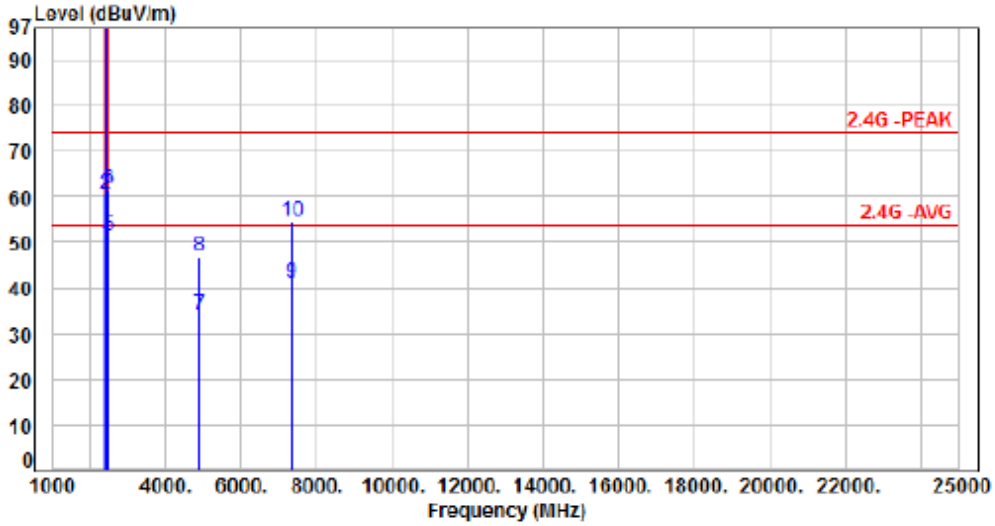


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.37	49.25	54.00	-4.75	Average	175	360	P
2	2390.00	-2.12	63.37	61.25	74.00	-12.75	Peak	175	360	P
3	2437.00	-2.07	124.22	122.15	200.00	-77.85	Average	175	360	P
4	2437.00	-2.07	126.46	124.39	200.00	-75.61	Peak	175	360	P
5	2483.50	-1.98	53.04	51.06	54.00	-2.94	Average	175	360	P
6	2483.50	-1.98	64.11	62.13	74.00	-11.87	Peak	175	360	P
7	4874.00	7.22	26.73	33.95	54.00	-20.05	Average	100	152	P
8	4874.00	7.22	44.58	51.80	74.00	-22.20	Peak	100	152	P
9	7311.00	12.29	28.42	40.71	54.00	-13.29	Average	100	110	P
10	7311.00	12.29	41.11	53.40	74.00	-20.60	Peak	100	110	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH06		:	

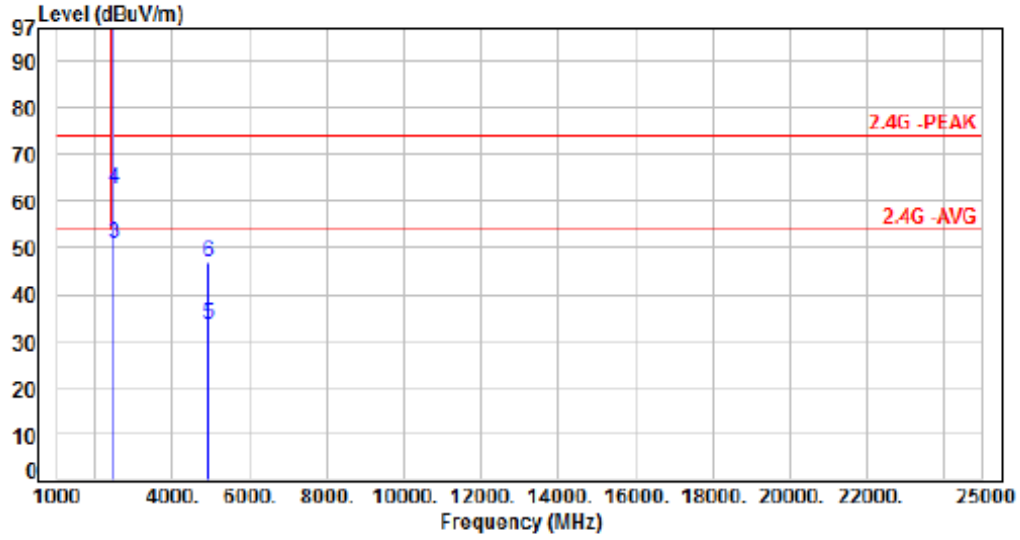


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.06	49.94	54.00	-4.06	Average	165	342	P
2	2390.00	-2.12	62.50	60.38	74.00	-13.62	Peak	165	342	P
3	2437.00	-2.07	123.69	121.62	200.00	-78.38	Average	165	342	P
4	2437.00	-2.07	126.07	124.00	200.00	-76.00	Peak	165	342	P
5	2483.50	-1.98	53.24	51.26	54.00	-2.74	Average	165	342	P
6	2483.50	-1.98	63.49	61.51	74.00	-12.49	Peak	165	342	P
7	4874.00	7.22	26.64	33.86	54.00	-20.14	Average	100	168	P
8	4874.00	7.22	39.72	46.94	74.00	-27.06	Peak	100	168	P
9	7311.00	12.29	28.50	40.79	54.00	-13.21	Average	100	153	P
10	7311.00	12.29	42.25	54.54	74.00	-19.46	Peak	100	153	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH11		:	

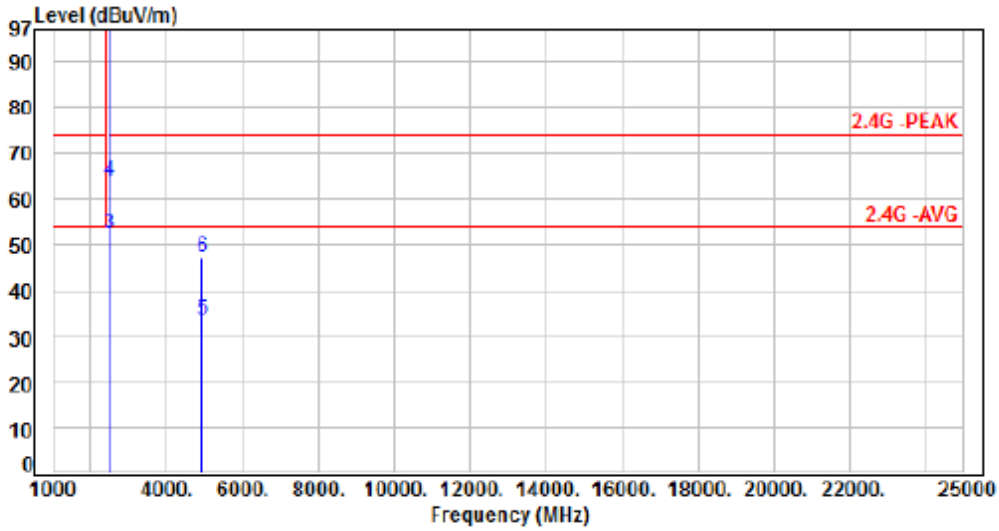


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	121.72	119.70	200.00	-80.30	Average	176	360	P
2	2462.00	-2.02	123.81	121.79	200.00	-78.21	Peak	176	360	P
3	2483.50	-1.98	53.04	51.06	54.00	-2.94	Average	176	360	P
4	2483.50	-1.98	64.54	62.56	74.00	-11.44	Peak	176	360	P
5	4924.00	7.33	26.07	33.40	54.00	-20.60	Average	100	138	P
6	4924.00	7.33	39.59	46.92	74.00	-27.08	Peak	100	138	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH11		:	

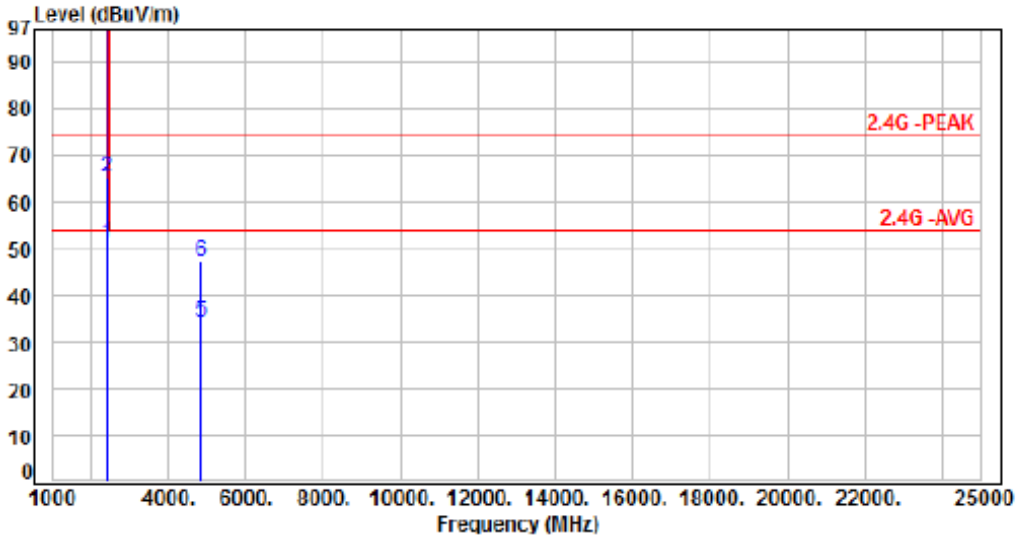


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	121.21	119.19	200.00	-80.81	Average	151	340	P
2	2462.00	-2.02	123.42	121.40	200.00	-76.60	Peak	151	340	P
3	2483.50	-1.98	54.52	52.54	54.00	-1.46	Average	151	340	P
4	2483.50	-1.98	65.78	63.80	74.00	-10.20	Peak	151	340	P
5	4924.00	7.33	26.13	33.46	54.00	-20.54	Average	100	175	P
6	4924.00	7.33	39.76	47.09	74.00	-26.91	Peak	100	175	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH01		:	

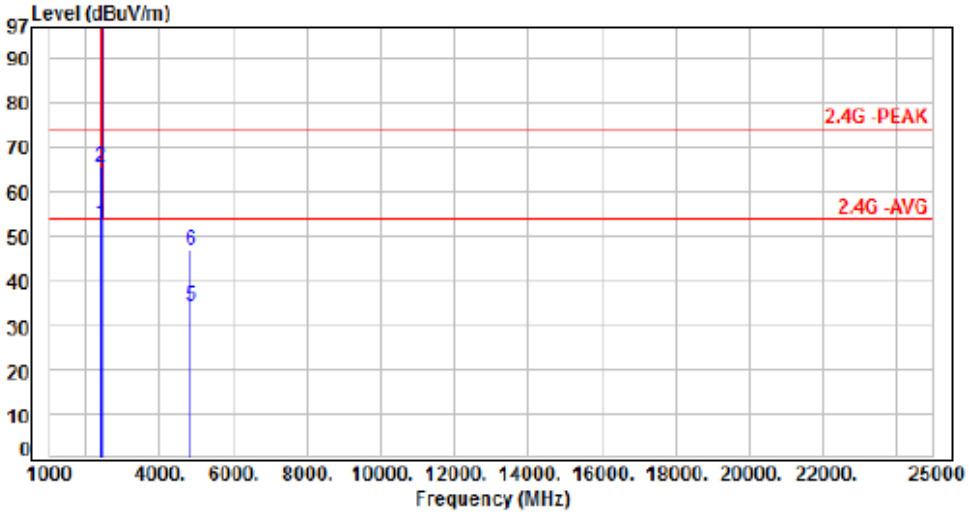


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.54	51.42	54.00	-2.58	Average	175	18	P
2	2390.00	-2.12	67.23	65.11	74.00	-8.89	Peak	175	18	P
3	2412.00	-2.10	110.45	108.35	200.00	-91.65	Average	175	18	P
4	2412.00	-2.10	120.44	118.34	200.00	-81.66	Peak	175	18	P
5	4824.00	6.95	27.22	34.17	54.00	-19.83	Average	100	113	P
6	4824.00	6.95	40.14	47.09	74.00	-26.91	Peak	100	113	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH01		:	

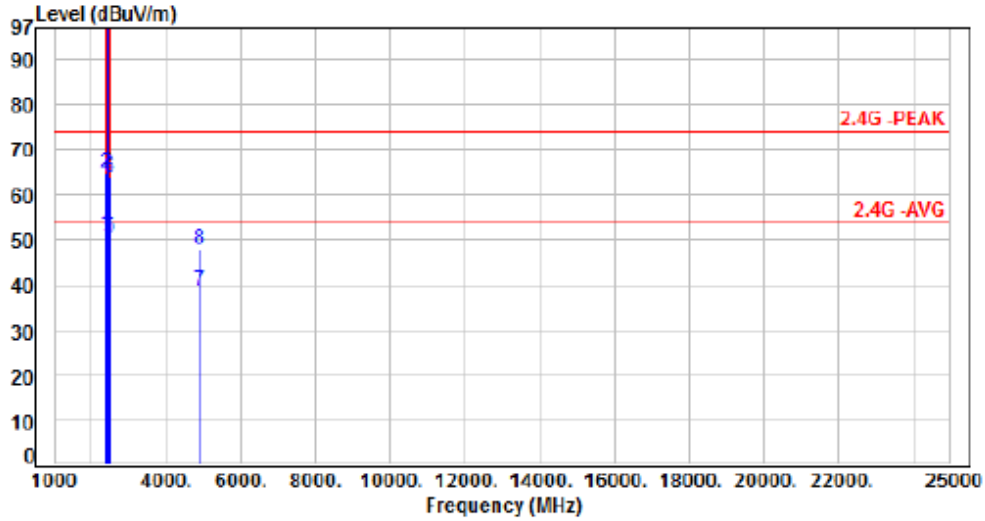


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.87	52.75	54.00	-1.25	Average	151	349	P
2	2390.00	-2.12	67.81	65.69	74.00	-8.31	Peak	151	349	P
3	2412.00	-2.10	110.64	108.54	200.00	-91.46	Average	151	349	P
4	2412.00	-2.10	121.01	118.91	200.00	-81.09	Peak	151	349	P
5	4824.00	6.95	27.22	34.17	54.00	-19.83	Average	100	312	P
6	4824.00	6.95	39.83	46.78	74.00	-27.22	Peak	100	312	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH06		:	

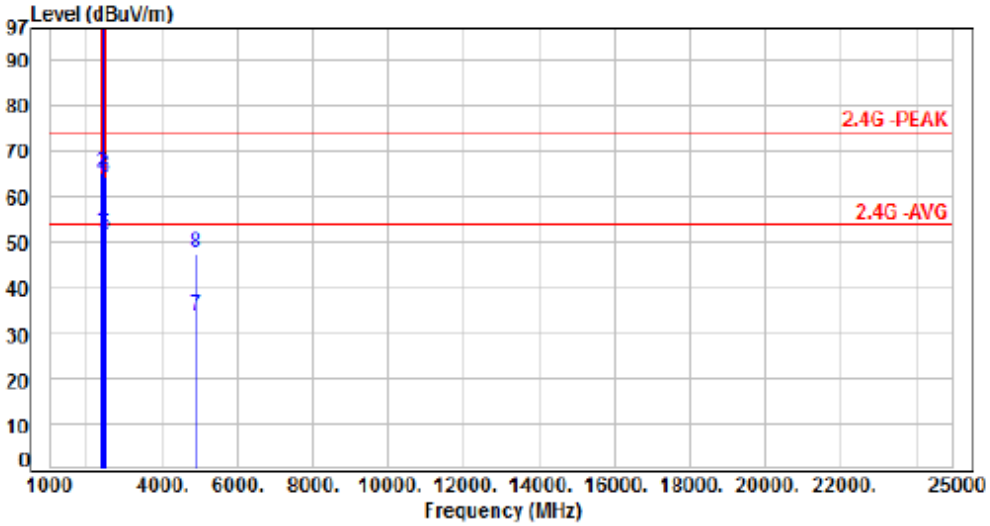


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.55	51.43	54.00	-2.57	Average	178	17	P
2	2390.00	-2.12	67.02	64.90	74.00	-9.10	Peak	178	17	P
3	2437.00	-2.07	118.85	116.78	200.00	-83.22	Average	178	17	P
4	2437.00	-2.07	129.12	127.05	200.00	-72.95	Peak	178	17	P
5	2483.50	-1.98	52.52	50.54	54.00	-3.46	Average	178	17	P
6	2483.50	-1.98	65.92	63.94	74.00	-10.06	Peak	178	17	P
7	4874.00	7.22	31.58	38.80	54.00	-15.20	Average	100	315	P
8	4874.00	7.22	40.57	47.79	74.00	-26.21	Peak	100	315	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH06		:	

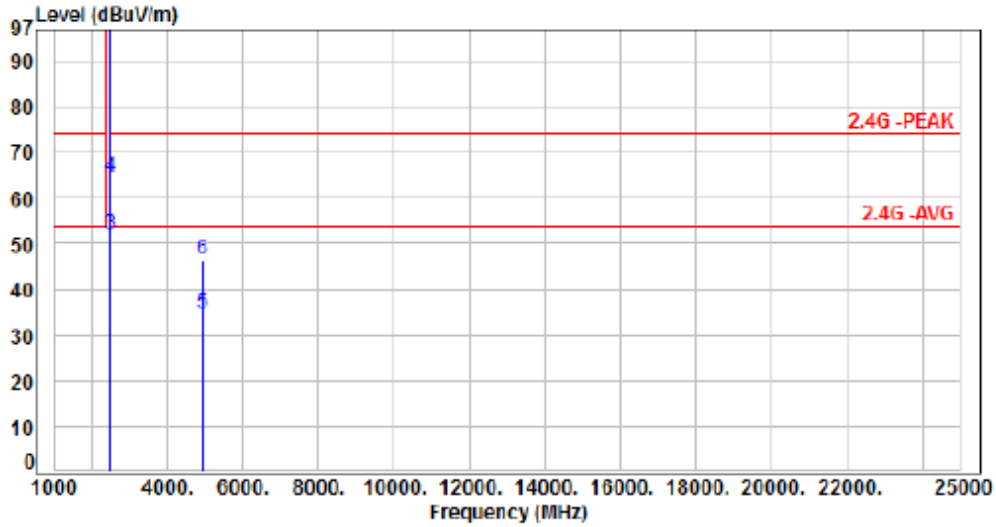


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.40	52.28	54.00	-1.72	Average	151	345	P
2	2390.00	-2.12	67.24	65.12	74.00	-8.88	Peak	151	345	P
3	2437.00	-2.07	118.54	116.47	200.00	-83.53	Average	151	345	P
4	2437.00	-2.07	128.77	126.70	200.00	-73.30	Peak	151	345	P
5	2483.50	-1.98	53.57	51.59	54.00	-2.41	Average	151	345	P
6	2483.50	-1.98	66.27	64.29	74.00	-9.71	Peak	151	345	P
7	4874.00	7.22	26.73	33.95	54.00	-20.05	Average	100	136	P
8	4874.00	7.22	40.53	47.75	74.00	-26.25	Peak	100	136	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH11		:	

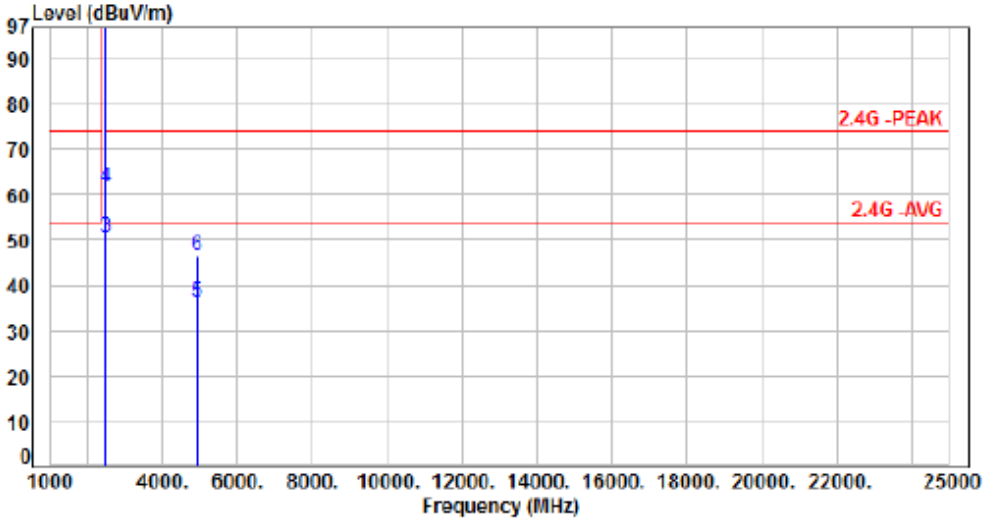


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	109.39	107.37	200.00	-92.63	Average	176	360	P
2	2462.00	-2.02	119.13	117.11	200.00	-82.89	Peak	176	360	P
3	2483.50	-1.98	53.90	51.92	54.00	-2.08	Average	176	360	P
4	2483.50	-1.98	66.70	64.72	74.00	-9.28	Peak	176	360	P
5	4924.00	7.33	27.34	34.67	54.00	-19.33	Average	100	158	P
6	4924.00	7.33	39.28	46.61	74.00	-27.39	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2, CH11		:	

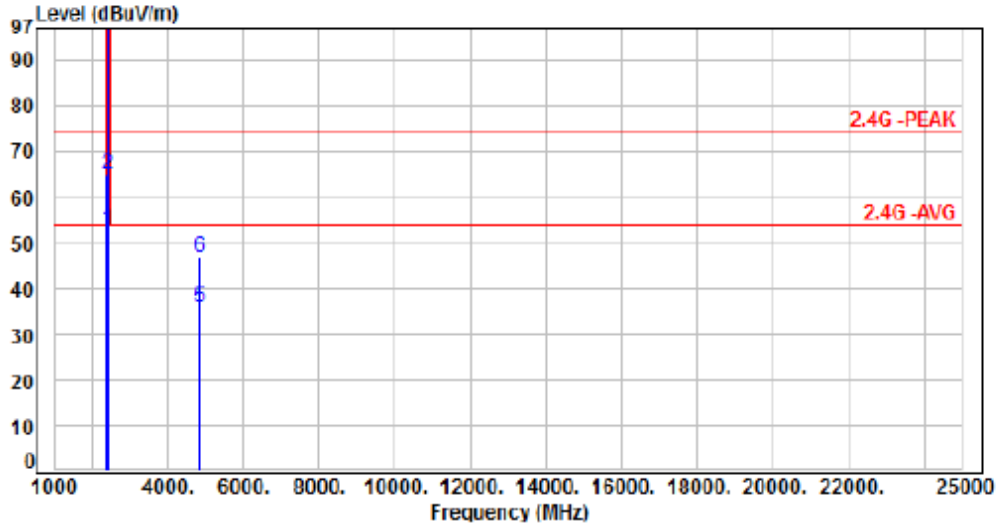


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	108.27	106.25	200.00	-93.75	Average	162	338	P
2	2462.00	-2.02	118.01	115.99	200.00	-84.01	Peak	162	338	P
3	2483.50	-1.98	52.44	50.46	54.00	-3.54	Average	162	338	P
4	2483.50	-1.98	63.55	61.57	74.00	-12.43	Peak	162	338	P
5	4924.00	7.33	28.92	36.25	54.00	-17.75	Average	100	132	P
6	4924.00	7.33	39.32	46.65	74.00	-27.35	Peak	100	132	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH01		:	

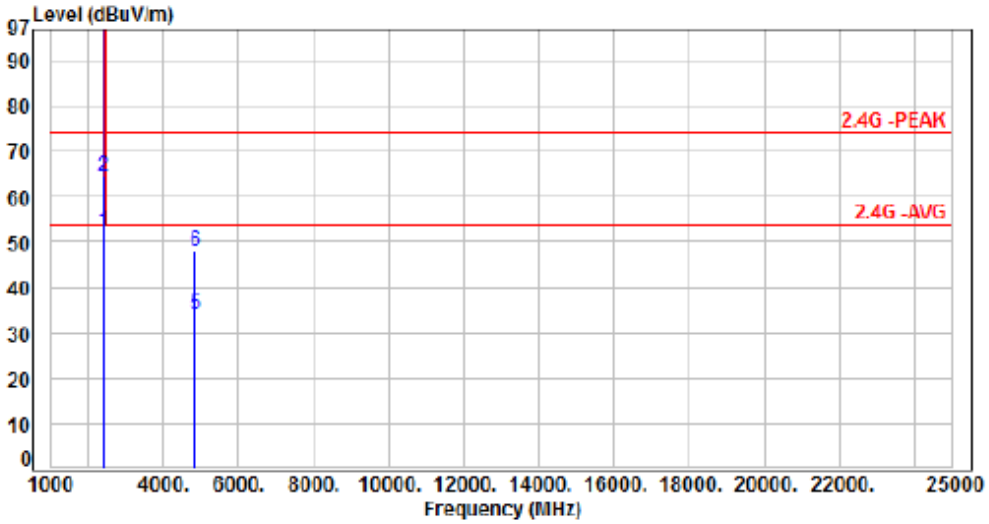


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.68	52.56	54.00	-1.44	Average	171	360	P
2	2390.00	-2.12	66.86	64.74	74.00	-9.26	Peak	171	360	P
3	2412.00	-2.10	108.18	106.08	200.00	-93.92	Average	171	360	P
4	2412.00	-2.10	120.82	118.72	200.00	-81.28	Peak	171	360	P
5	4824.00	6.95	28.95	35.90	54.00	-18.10	Average	100	116	P
6	4824.00	6.95	39.72	46.67	74.00	-27.33	Peak	100	116	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH01		:	

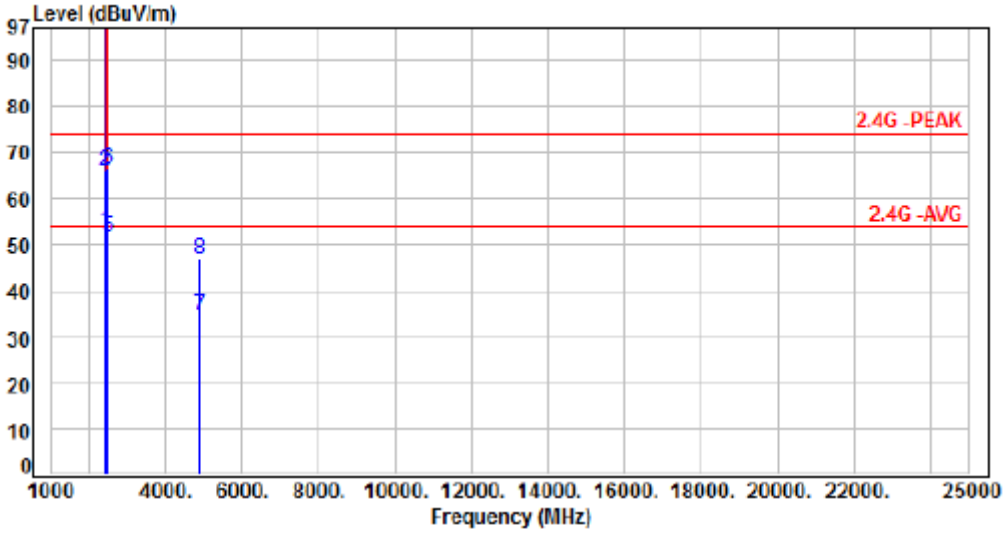


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.61	52.49	54.00	-1.51	Average	162	337	P
2	2390.00	-2.12	66.85	64.73	74.00	-9.27	Peak	162	337	P
3	2412.00	-2.10	107.33	105.23	200.00	-94.77	Average	162	337	P
4	2412.00	-2.10	121.15	119.05	200.00	-80.95	Peak	162	337	P
5	4824.00	6.95	27.06	34.01	54.00	-19.99	Average	100	98	P
6	4824.00	6.95	41.08	48.03	74.00	-25.97	Peak	100	98	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH06		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	55.08	52.96	54.00	-1.04	Average	172	360	P
2	2390.00	-2.12	68.20	66.08	74.00	-7.92	Peak	172	360	P
3	2437.00	-2.07	110.40	108.33	200.00	-91.67	Average	172	360	P
4	2437.00	-2.07	124.34	122.27	200.00	-77.73	Peak	172	360	P
5	2483.50	-1.98	53.47	51.49	54.00	-2.51	Average	172	360	P
6	2483.50	-1.98	68.29	66.31	74.00	-7.69	Peak	172	360	P
7	4874.00	7.22	27.56	34.78	54.00	-19.22	Average	100	158	P
8	4874.00	7.22	39.45	46.67	74.00	-27.33	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

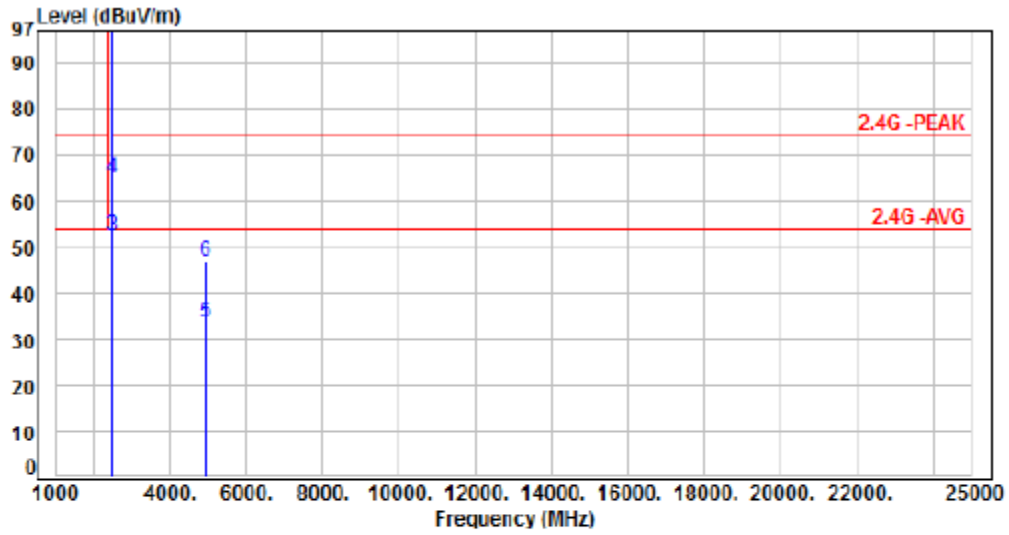
Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH06		:	

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.40	52.28	54.00	-1.72	Average	161	340	P
2	2390.00	-2.12	67.32	65.20	74.00	-8.80	Peak	161	340	P
3	2437.00	-2.07	117.42	115.35	200.00	-84.65	Average	161	340	P
4	2437.00	-2.07	130.65	128.58	200.00	-71.42	Peak	161	340	P
5	2483.50	-1.98	53.80	51.82	54.00	-2.18	Average	161	340	P
6	2483.50	-1.98	66.87	64.89	74.00	-9.11	Peak	161	340	P
7	4874.00	7.22	30.58	37.80	54.00	-16.20	Average	100	211	P
8	4874.00	7.22	40.12	47.34	74.00	-26.66	Peak	100	211	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 3, CH11		:	

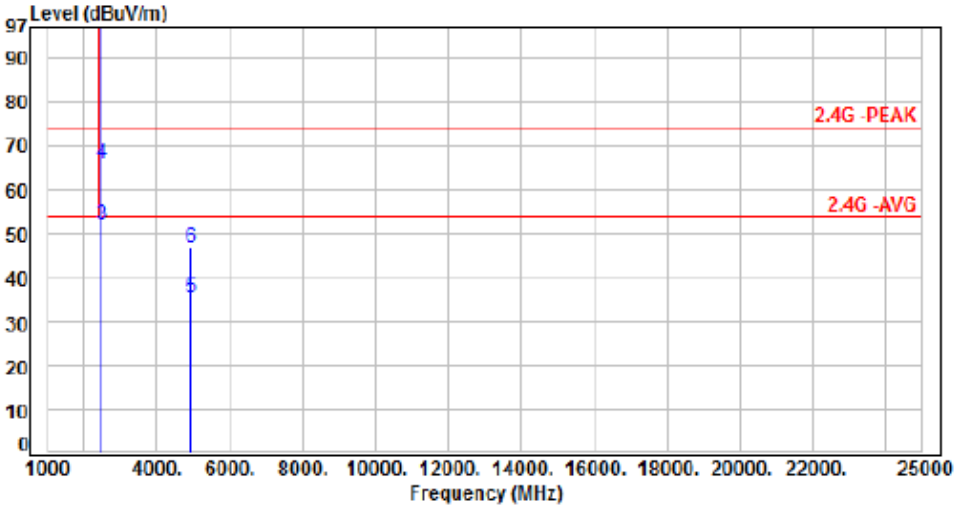


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	107.00	104.98	200.00	-95.02	Average	183	14	P
2	2462.00	-2.02	120.76	118.74	200.00	-81.26	Peak	183	14	P
3	2483.50	-1.98	54.53	52.55	54.00	-1.45	Average	183	14	P
4	2483.50	-1.98	66.84	64.86	74.00	-9.14	Peak	183	14	P
5	4924.00	7.33	26.08	33.41	54.00	-20.59	Average	100	132	P
6	4924.00	7.33	39.43	46.76	74.00	-27.24	Peak	100	132	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 3, CH11		:	

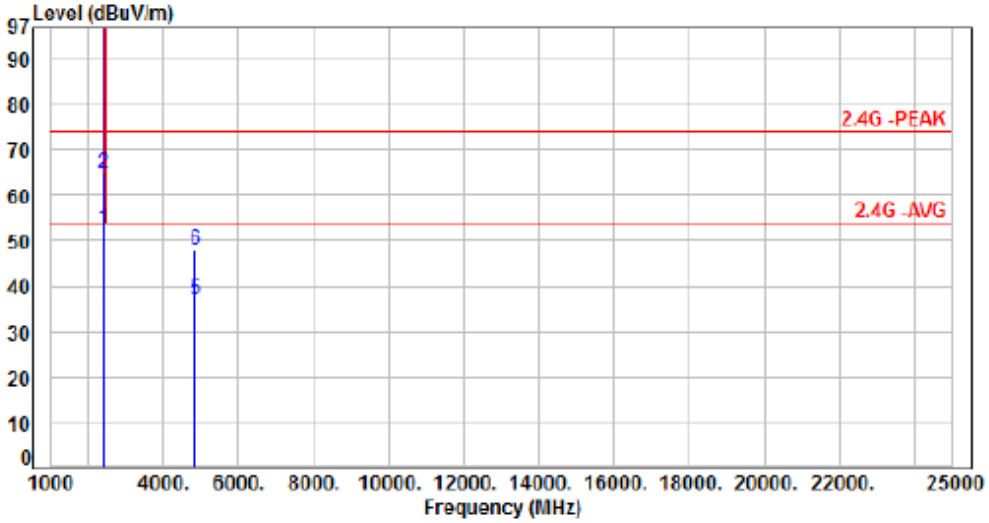


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	107.40	105.38	200.00	-94.62	Average	162	345	P
2	2462.00	-2.02	120.45	118.43	200.00	-81.57	Peak	162	345	P
3	2483.50	-1.98	54.15	52.17	54.00	-1.83	Average	162	345	P
4	2483.50	-1.98	67.88	65.90	74.00	-8.10	Peak	162	345	P
5	4924.00	7.33	27.99	35.32	54.00	-18.68	Average	100	122	P
6	4924.00	7.33	39.38	46.71	74.00	-27.29	Peak	100	122	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH03		:	

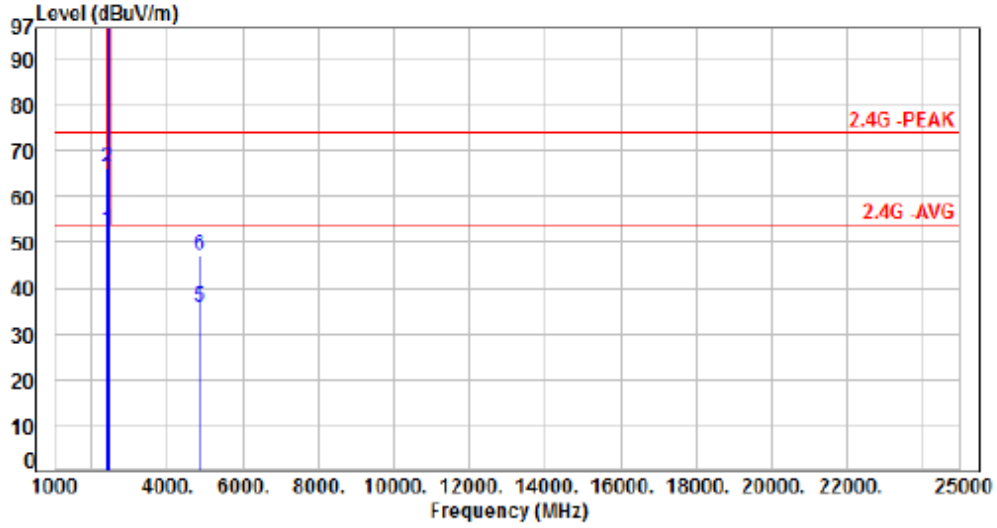


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.70	52.58	54.00	-1.42	Average	182	0	P
2	2390.00	-2.12	67.08	64.96	74.00	-9.04	Peak	182	0	P
3	2422.00	-2.08	104.77	102.69	200.00	-97.31	Average	182	0	P
4	2422.00	-2.08	118.53	116.45	200.00	-83.55	Peak	182	0	P
5	4844.00	7.09	29.86	36.95	54.00	-17.05	Average	100	72	P
6	4844.00	7.09	40.70	47.79	74.00	-26.21	Peak	100	72	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH03		:	

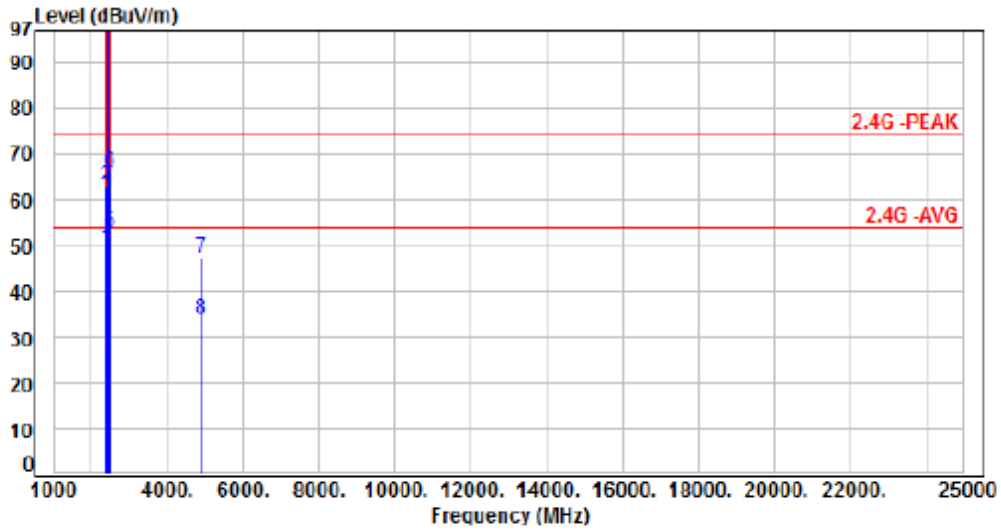


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	54.98	52.86	54.00	-1.14	Average	161	352	P
2	2390.00	-2.12	68.49	66.37	74.00	-7.63	Peak	161	352	P
3	2422.00	-2.08	103.93	101.85	200.00	-98.15	Average	161	352	P
4	2422.00	-2.08	117.84	115.76	200.00	-84.24	Peak	161	352	P
5	4844.00	7.09	28.72	35.81	54.00	-18.19	Average	100	167	P
6	4844.00	7.09	39.99	47.08	74.00	-26.92	Peak	100	167	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH06		:	

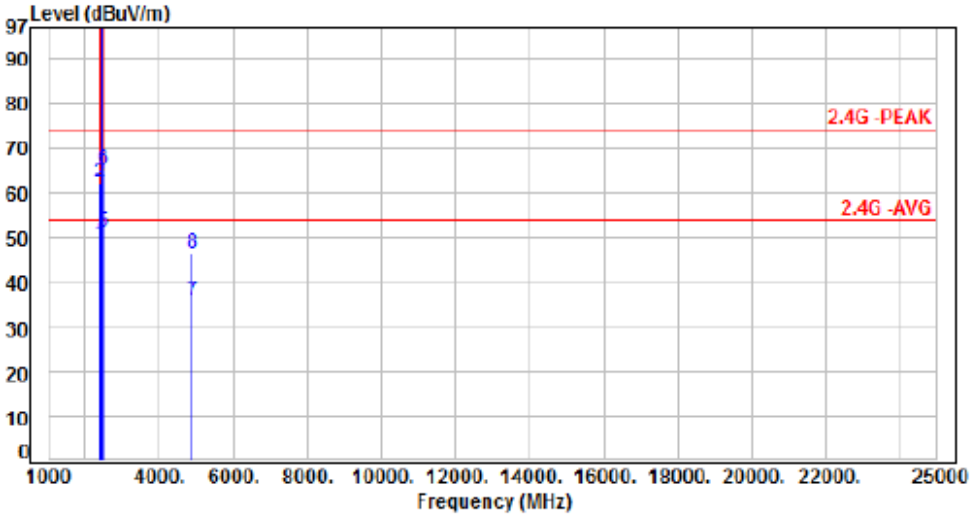


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.68	49.56	54.00	-4.44	Average	181	0	P
2	2390.00	-2.12	65.01	62.89	74.00	-11.11	Peak	181	0	P
3	2437.00	-2.07	105.61	103.54	200.00	-96.46	Average	181	0	P
4	2437.00	-2.07	119.33	117.26	200.00	-82.74	Peak	181	0	P
5	2483.50	-1.98	54.61	52.63	54.00	-1.37	Average	181	0	P
6	2483.50	-1.98	68.00	66.02	74.00	-7.98	Peak	181	0	P
7	4874.00	7.22	39.87	47.09	54.00	-6.91	Average	100	241	P
8	4874.00	7.22	26.75	33.97	74.00	-40.03	Peak	100	241	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH06		:	

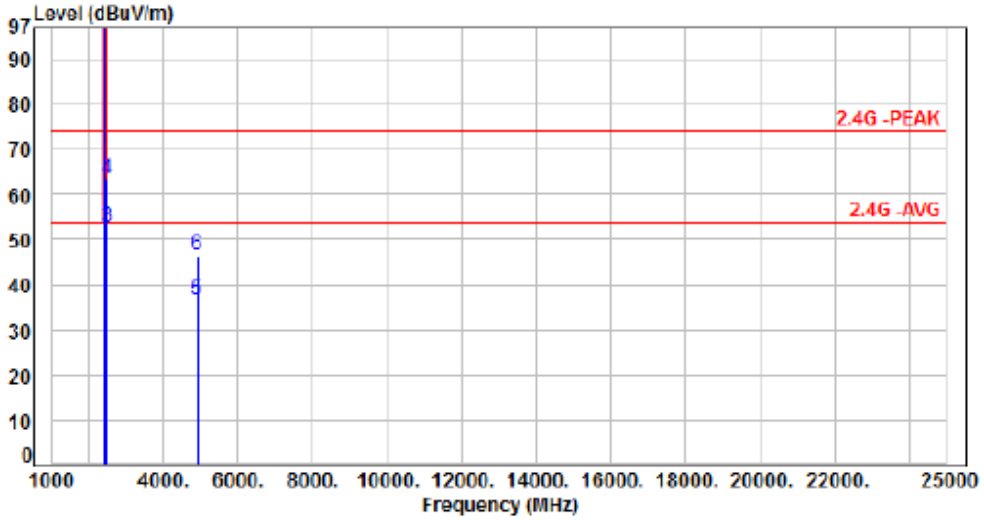


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	50.93	48.81	54.00	-5.19	Average	165	340	P
2	2390.00	-2.12	64.30	62.18	74.00	-11.82	Peak	165	340	P
3	2437.00	-2.07	104.55	102.48	200.00	-97.52	Average	165	340	P
4	2437.00	-2.07	116.92	114.85	200.00	-85.15	Peak	165	340	P
5	2483.50	-1.98	53.27	51.29	54.00	-2.71	Average	165	340	P
6	2483.50	-1.98	67.39	65.41	74.00	-8.59	Peak	165	340	P
7	4874.00	7.22	28.61	35.83	54.00	-18.17	Average	100	331	P
8	4874.00	7.22	39.33	46.55	74.00	-27.45	Peak	100	331	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 4, CH09		:	

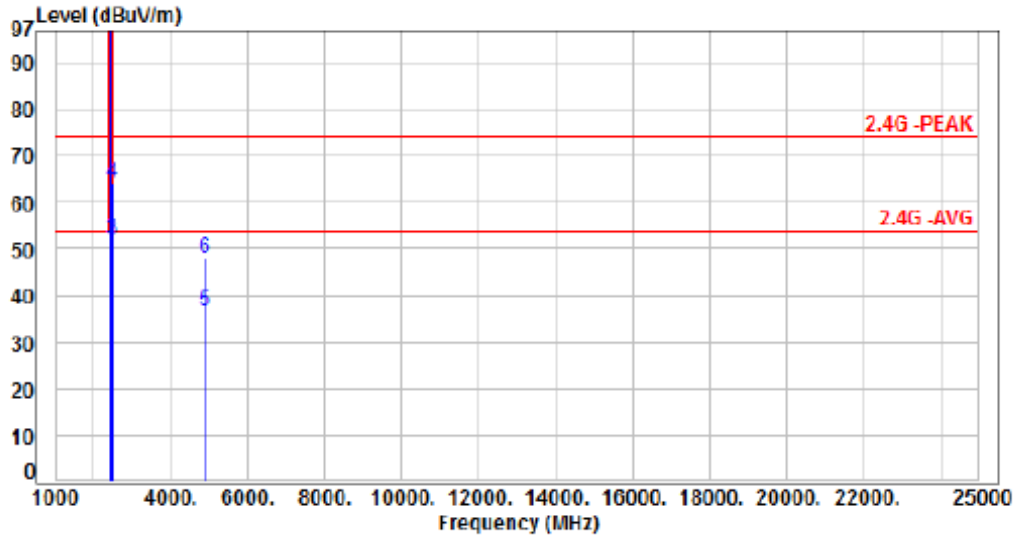


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	102.43	100.38	200.00	-99.62	Average	172	9	P
2	2452.00	-2.05	113.30	111.25	200.00	-88.75	Peak	172	9	P
3	2483.50	-1.98	54.86	52.88	54.00	-1.12	Average	172	9	P
4	2483.50	-1.98	65.50	63.52	74.00	-10.48	Peak	172	9	P
5	4904.00	7.31	29.32	36.63	54.00	-17.37	Average	100	224	P
6	4904.00	7.31	39.28	46.59	74.00	-27.41	Peak	100	224	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Non BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 4, CH09		:	

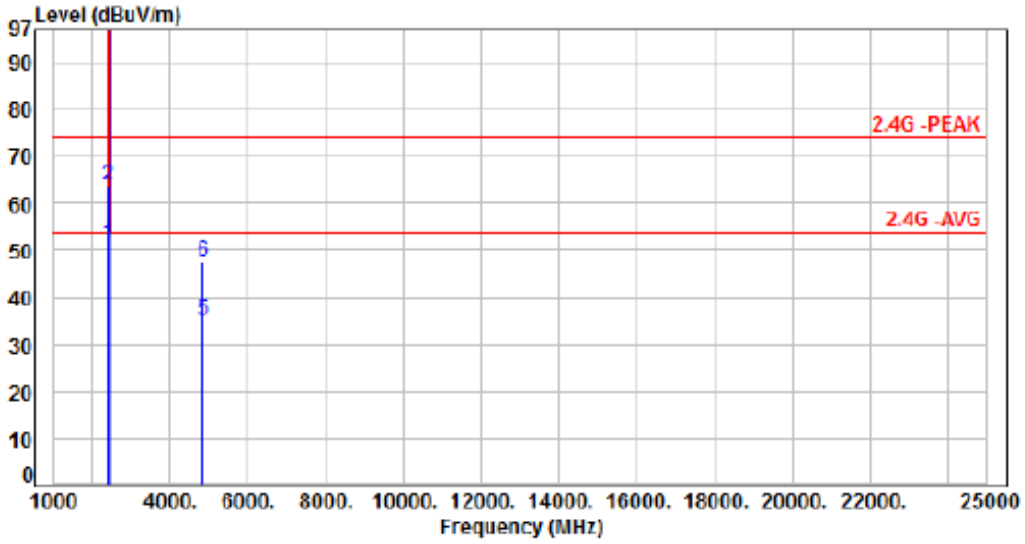


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	102.74	100.69	200.00	-99.31	Average	162	345	P
2	2452.00	-2.05	113.49	111.44	200.00	-88.56	Peak	162	345	P
3	2483.50	-1.98	54.06	52.08	54.00	-1.92	Average	162	345	P
4	2483.50	-1.98	66.06	64.08	74.00	-9.92	Peak	162	345	P
5	4904.00	7.31	29.36	36.67	54.00	-17.33	Average	100	118	P
6	4904.00	7.31	40.61	47.92	74.00	-26.08	Peak	100	118	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH01		:	

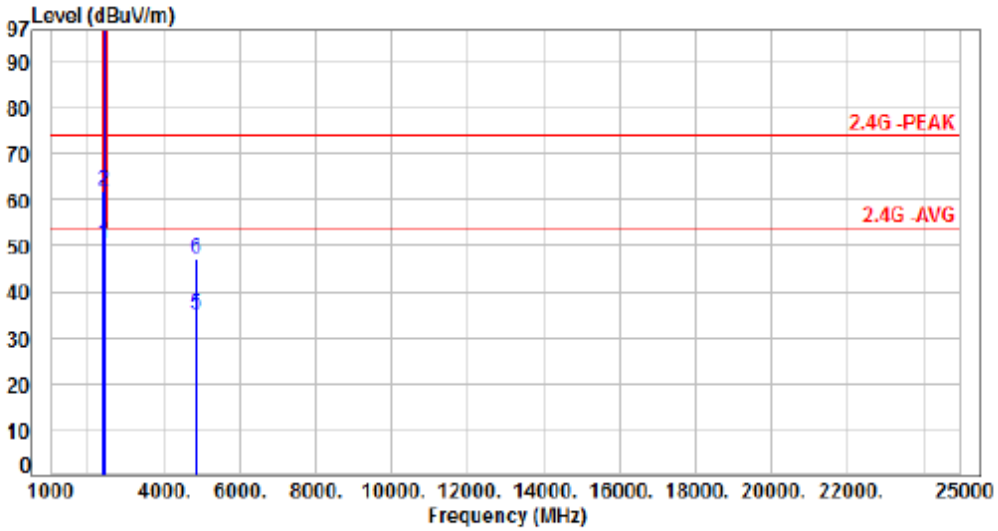


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.27	51.15	54.00	-2.85	Average	167	360	P
2	2390.00	-2.12	65.97	63.85	74.00	-10.15	Peak	167	360	P
3	2412.00	-2.10	111.71	109.61	200.00	-90.39	Average	167	360	P
4	2412.00	-2.10	119.82	117.72	200.00	-82.28	Peak	167	360	P
5	4824.00	6.95	28.02	34.97	54.00	-19.03	Average	100	132	P
6	4824.00	6.95	40.61	47.56	74.00	-26.44	Peak	100	132	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH01		:	

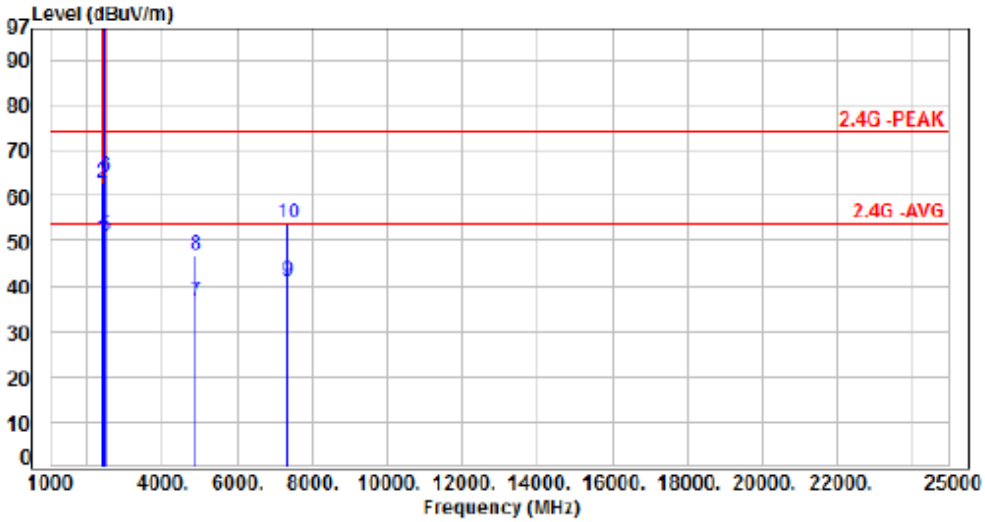


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.65	50.53	54.00	-3.47	Average	163	360	P
2	2390.00	-2.12	64.05	61.93	74.00	-12.07	Peak	163	360	P
3	2412.00	-2.10	112.76	110.66	200.00	-89.34	Average	163	360	P
4	2412.00	-2.10	118.30	116.20	200.00	-83.80	Peak	163	360	P
5	4824.00	6.95	28.23	35.18	54.00	-18.82	Average	100	133	P
6	4824.00	6.95	40.33	47.28	74.00	-26.72	Peak	100	133	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH06		:	

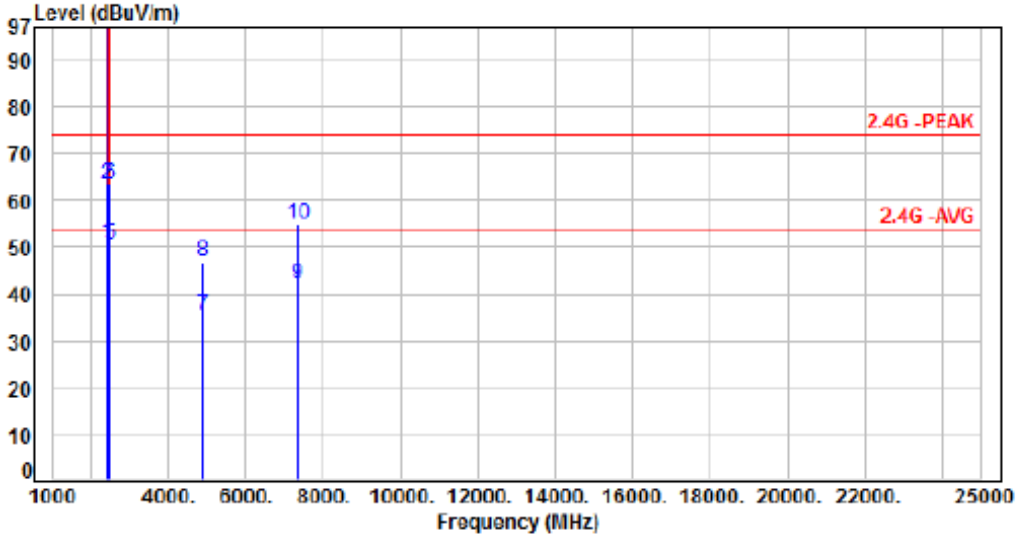


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	52.71	50.59	54.00	-3.41	Average	162	360	P
2	2390.00	-2.12	64.75	62.63	74.00	-11.37	Peak	162	360	P
3	2437.00	-2.07	122.64	120.57	200.00	-79.43	Average	162	360	P
4	2437.00	-2.07	128.56	126.49	200.00	-73.51	Peak	162	360	P
5	2483.50	-1.98	53.04	51.06	54.00	-2.94	Average	162	360	P
6	2483.50	-1.98	66.10	64.12	74.00	-9.88	Peak	162	360	P
7	4874.00	7.22	29.42	36.64	54.00	-17.36	Average	100	167	P
8	4874.00	7.22	39.48	46.70	74.00	-27.30	Peak	100	167	P
9	7311.00	12.29	28.58	40.87	54.00	-13.13	Average	100	119	P
10	7311.00	12.29	41.57	53.86	74.00	-20.14	Peak	100	119	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH06		:	

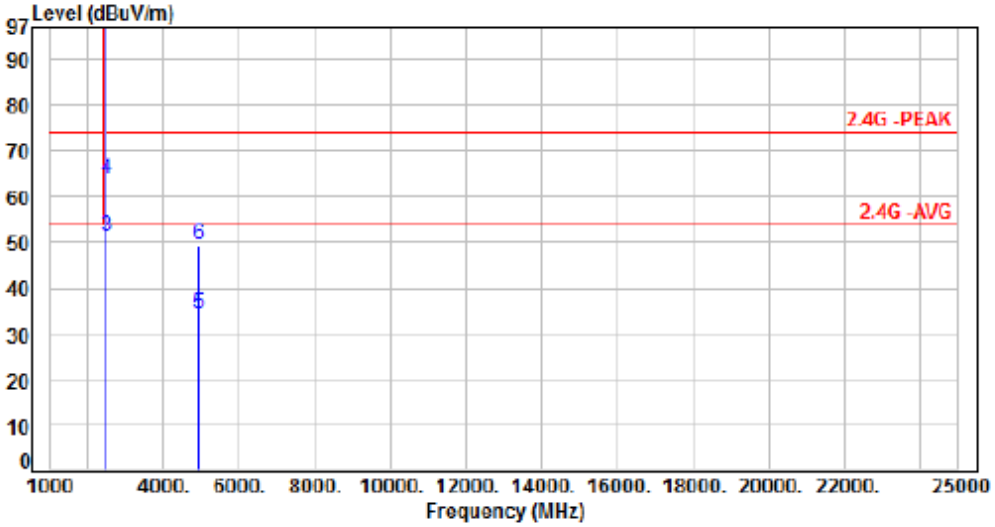


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.10	50.98	54.00	-3.02	Average	164	360	P
2	2390.00	-2.12	65.62	63.50	74.00	-10.50	Peak	164	360	P
3	2437.00	-2.07	121.25	119.18	200.00	-80.82	Average	164	360	P
4	2437.00	-2.07	127.91	125.84	200.00	-74.16	Peak	164	360	P
5	2483.50	-1.98	52.67	50.69	54.00	-3.31	Average	164	360	P
6	2483.50	-1.98	65.40	63.42	74.00	-10.58	Peak	164	360	P
7	4874.00	7.22	28.21	35.43	54.00	-18.57	Average	100	193	P
8	4874.00	7.22	39.53	46.75	74.00	-27.25	Peak	100	193	P
9	7311.00	12.29	29.91	42.20	54.00	-11.80	Average	100	291	P
10	7311.00	12.29	42.69	54.98	74.00	-19.02	Peak	100	291	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 5, CH11		:	

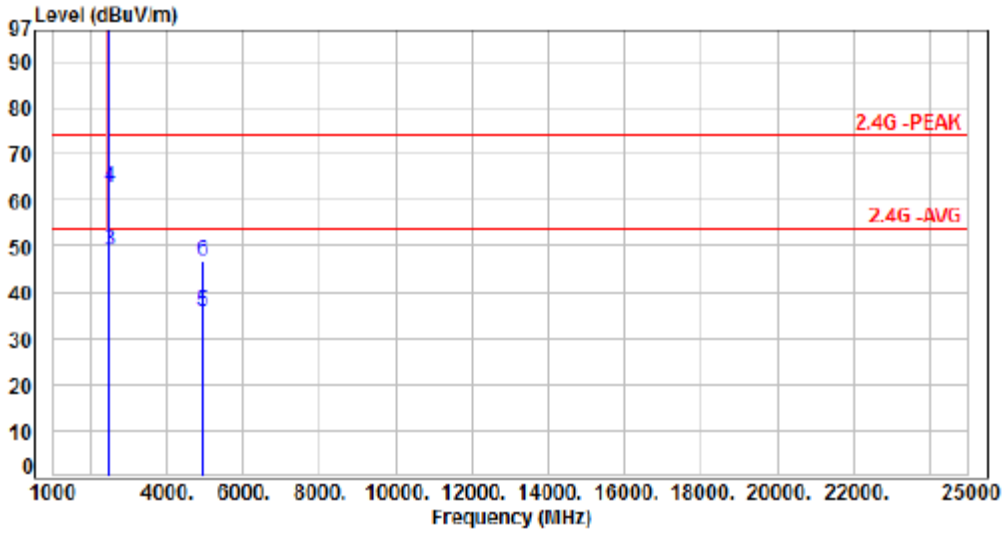


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	112.07	110.05	200.00	-89.95	Average	170	360	P
2	2462.00	-2.02	118.98	116.96	200.00	-83.04	Peak	170	360	P
3	2483.50	-1.98	53.43	51.45	54.00	-2.55	Average	170	360	P
4	2483.50	-1.98	65.94	63.96	74.00	-10.04	Peak	170	360	P
5	4924.00	7.33	27.06	34.39	54.00	-19.61	Average	100	196	P
6	4924.00	7.33	42.09	49.42	74.00	-24.58	Peak	100	196	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 5, CH11		:	

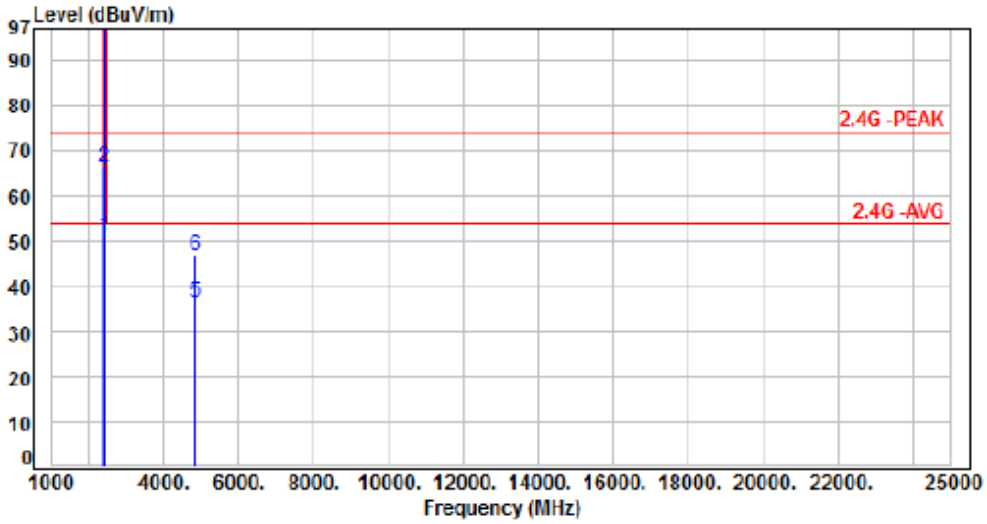


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	110.30	108.28	200.00	-91.72	Average	165	360	P
2	2462.00	-2.02	118.21	116.19	200.00	-83.81	Peak	165	360	P
3	2483.50	-1.98	50.96	48.98	54.00	-5.02	Average	165	360	P
4	2483.50	-1.98	64.63	62.65	74.00	-11.35	Peak	165	360	P
5	4924.00	7.33	28.58	35.91	54.00	-18.09	Average	100	199	P
6	4924.00	7.33	39.39	46.72	74.00	-27.28	Peak	100	199	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH03		:	

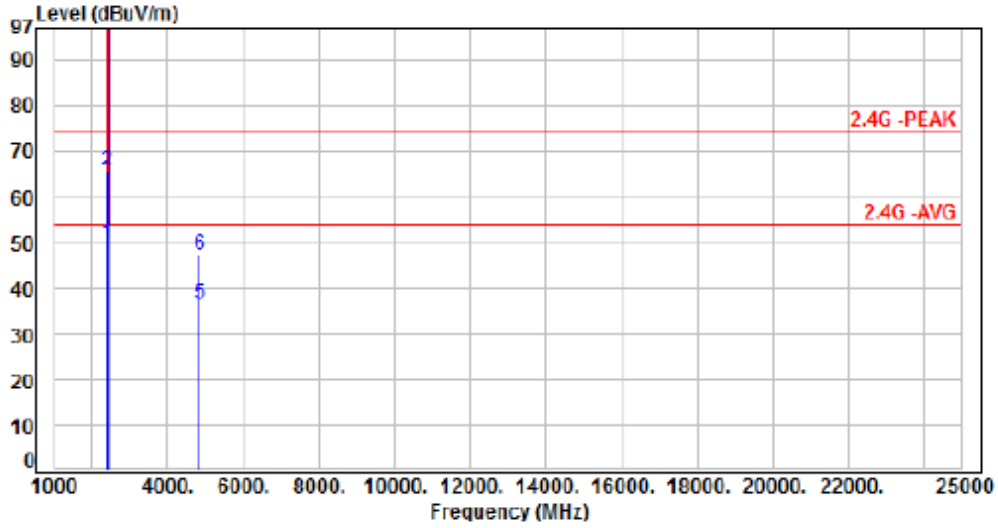


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	53.09	50.97	54.00	-3.03	Average	172	360	P
2	2390.00	-2.12	68.47	66.35	74.00	-7.65	Peak	172	360	P
3	2422.00	-2.08	111.00	108.92	200.00	-91.08	Average	172	360	P
4	2422.00	-2.08	116.71	114.63	200.00	-85.37	Peak	172	360	P
5	4844.00	7.09	29.56	36.65	54.00	-17.35	Average	100	197	P
6	4844.00	7.09	39.80	46.89	74.00	-27.11	Peak	100	197	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH03		:	

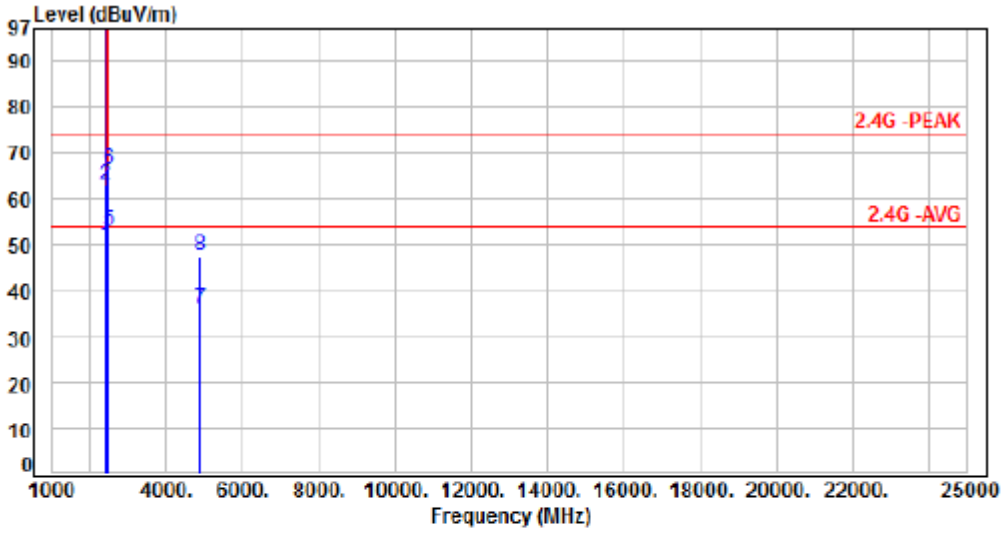


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.84	49.72	54.00	-4.28	Average	164	360	P
2	2390.00	-2.12	67.73	65.61	74.00	-8.39	Peak	164	360	P
3	2422.00	-2.08	111.15	109.07	200.00	-90.93	Average	164	360	P
4	2422.00	-2.08	115.08	113.00	200.00	-87.00	Peak	164	360	P
5	4844.00	7.09	29.32	36.41	54.00	-17.59	Average	100	278	P
6	4844.00	7.09	40.24	47.33	74.00	-26.67	Peak	100	278	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH06		:	

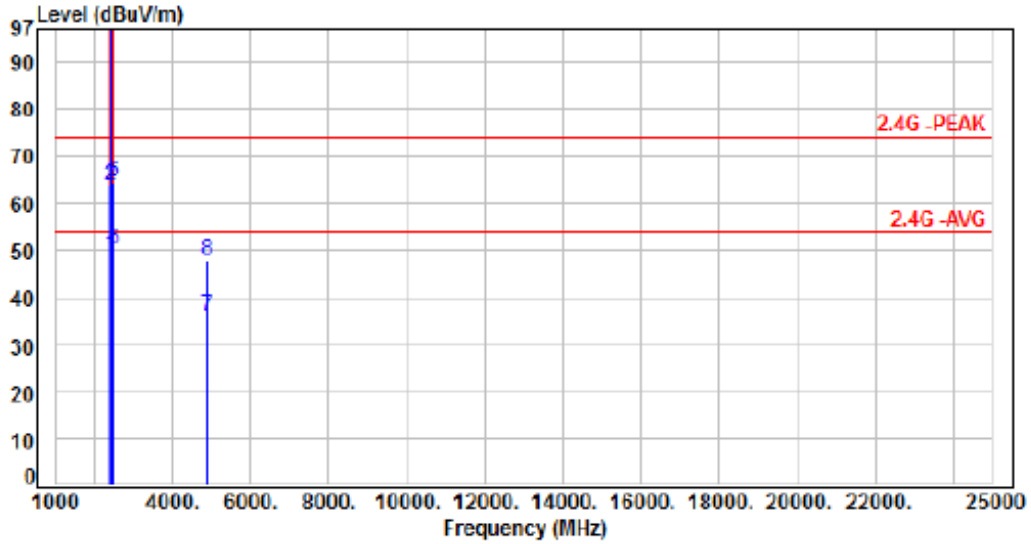


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.85	49.73	54.00	-4.27	Average	174	360	P
2	2390.00	-2.12	65.11	62.99	74.00	-11.01	Peak	174	360	P
3	2437.00	-2.07	113.34	111.27	200.00	-88.73	Average	174	360	P
4	2437.00	-2.07	119.14	117.07	200.00	-82.93	Peak	174	360	P
5	2483.50	-1.98	54.94	52.96	54.00	-1.04	Average	174	360	P
6	2483.50	-1.98	68.28	66.30	74.00	-7.70	Peak	174	360	P
7	4874.00	7.22	29.00	36.22	54.00	-17.78	Average	100	189	P
8	4874.00	7.22	40.21	47.43	74.00	-26.57	Peak	100	189	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH06		:	

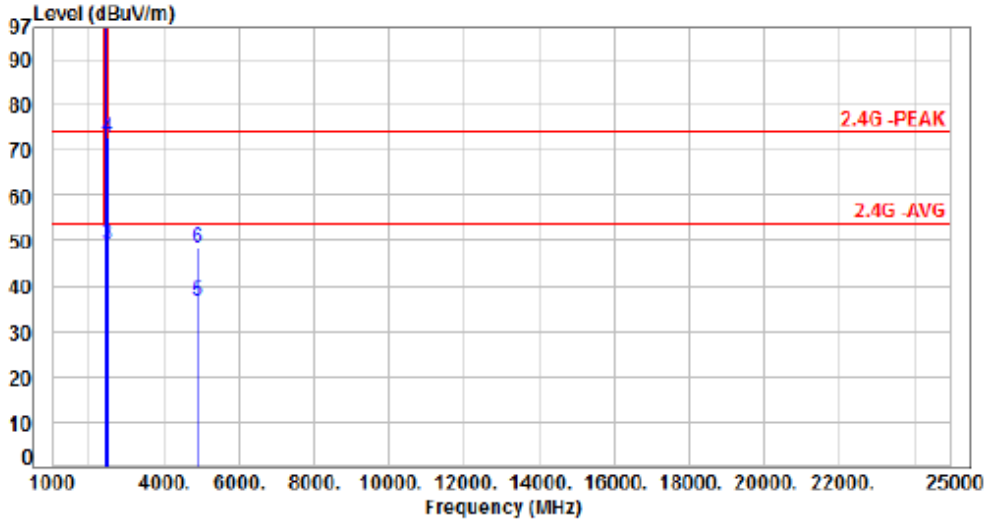


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.09	48.97	54.00	-5.03	Average	164	360	P
2	2390.00	-2.12	65.93	63.81	74.00	-10.19	Peak	164	360	P
3	2437.00	-2.07	112.01	109.94	200.00	-90.06	Average	164	360	P
4	2437.00	-2.07	115.88	113.81	200.00	-86.19	Peak	164	360	P
5	2483.50	-1.98	52.24	50.26	54.00	-3.74	Average	164	360	P
6	2483.50	-1.98	66.54	64.56	74.00	-9.44	Peak	164	360	P
7	4874.00	7.22	28.95	36.17	54.00	-17.83	Average	100	266	P
8	4874.00	7.22	40.85	48.07	74.00	-25.93	Peak	100	266	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 6, CH09		:	

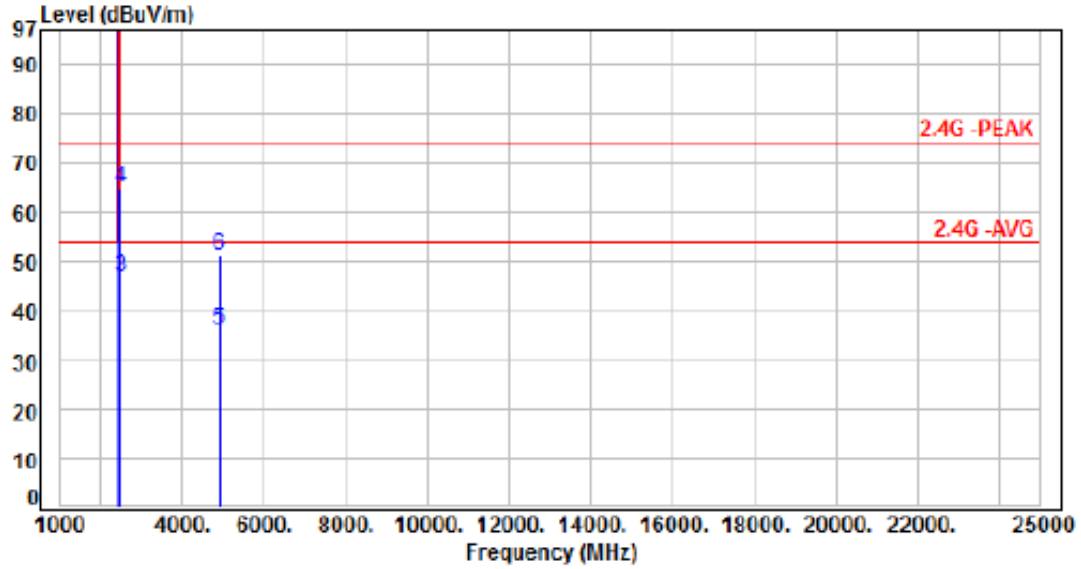


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	105.84	103.79	200.00	-96.21	Average	176	360	P
2	2452.00	-2.05	110.92	108.87	200.00	-91.13	Peak	176	360	P
3	2483.50	-1.98	51.16	49.18	54.00	-4.82	Average	176	360	P
4	2483.50	-1.98	74.68	72.70	74.00	-1.30	Peak	176	360	P
5	4904.00	7.31	29.06	36.37	54.00	-17.63	Average	100	119	P
6	4904.00	7.31	40.85	48.16	74.00	-25.84	Peak	100	119	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

BeamForming- ALI22 Antenna

Power	:	From PoE (120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 6, CH09		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	104.14	102.09	200.00	-97.91	Average	172	360	P
2	2452.00	-2.05	108.54	106.49	200.00	-93.51	Peak	172	360	P
3	2483.50	-1.98	48.73	46.75	54.00	-7.25	Average	172	360	P
4	2483.50	-1.98	66.79	64.81	74.00	-9.19	Peak	172	360	P
5	4904.00	7.31	28.78	36.09	54.00	-17.91	Average	100	234	P
6	4904.00	7.31	43.94	51.25	74.00	-22.75	Peak	100	234	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