



FCC ID: SFG-BGATE

Zoomnetcom Inc.

Application
For
Certification

FCC ID: SFG-BGATE

Wireless Access Point

Model: Bgate-GT10-I

Report No.: 130426028SZN-006

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-12]

Prepared and Checked by:

Approved by:

Sign on file

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Supervisor

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Deputy General Manager
Date: April 28, 2013

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1 TABLE OF CONTENTS

1	TABLE OF CONTENTS	2
2	GENERAL INFORMATION	4
2.1	Product Description for Equipment Under Test (EUT)	4
2.2	Objective.....	4
2.3	Related Submittal(s)/Grant(s)	4
2.4	Test Methodology	4
2.5	Test Facility.....	5
2.6	Measurement Uncertainty	5
3	EQUIPMENT TEST CONFIGURATION	6
3.1	Identification of EUT	6
3.2	Detail Specification	6
3.3	Information Related to Testing	7
4	SUMMARY OF TEST RESULTS	8
5	ANTENNA REQUIREMENT	9
5.1	Applicable standard: FCC §15.203.....	9
5.2	Limit.....	9
5.3	Test Data.....	9
5.4	Test Result: Not applicable.....	9
6	AC LINE CONDUCTED EMISSIONS	10
6.1	Applicable Standard: FCC §15.207	10
6.2	Test Equipment List and Details	10
6.3	Test Procedure	10
6.4	Environmental Conditions	11
6.5	Test Result: Pass.....	11
7	RADIATED EMISSIONS	13
7.1	Applicable Standard: FCC §15.247(d), 15.209,15.205	13
7.2	Test Equipment List and Details	14
7.3	Test Procedure	14
7.4	Environmental Conditions	15
7.5	Test Result: Pass	15
8	6dB EMISSION BANDWIDTH.....	72
8.1	Applicable Standard: FCC §15.247(a).....	72
8.2	Test Equipment List and Details:	72
8.3	Test Procedure	72
8.4	Environmental Conditions	72
8.5	Test Result: pass.....	72
9	MAXIMUM PEAK OUTPUT POWER.....	78
9.1	Applicable Standard: FCC §15.247	78
9.2	Test Equipment List and Details	78
9.3	Test Procedure	78
9.4	Test Data Environmental Conditions	78
9.5	Test Result: Pass	78
10	100kHz BANDWIDTH OF FREQUENCY BAND EDGE.....	80
10.1	Applicable Standard: FCC § 15.247(d)	80
10.2	Test Equipment List and Details	80
10.3	Test Procedure.....	80
10.4	Environmental Conditions	80
10.5	Test Result: pass.....	80



11 POWER SPECTRAL DENSITY.....	98
11.1 Applicable Standard: FCC § 15.247(e).....	98
11.2 Test Equipment List and Details.....	98
11.3 Test Procedure	98
11.4 Test Data Environmental Conditions	98
11.5 Test Result: Pass	98

2 GENERAL INFORMATION

2.1 Product Description for Equipment Under Test (EUT)

The Zoomnetcom Inc.'s product, model number: Bgate-GT10-I (FCC ID: SFG-BGATE)(the "EUT") in this report is a Wireless Access Point, which was measured approximately: 300mm * 226mm * 144.5mm

Adapter information:

Model: DBcom-PSE01A-G

Input: AC100-240V, 50/60Hz,

Output: DC48V, 500mA/25W

Appearance of EUT:



2.2 Objective

This Type approval report is prepared on behalf of Zoomnetcom Inc. in accordance with Part 2, Part 15 of the Federal Communication Commissions rules.

2.3 Related Submittal(s)/Grant(s)

No related submittal(s).

2.4 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, as well as the following parts:

Part 15 Wireless Communication Services

Applicable Standards: ANSI C63.4-2009, KDB 558074, KDB 662911.

All radiated and conducted measurement was performed at ZTE Corporation Reliability Testing Center. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

2.5 Test Facility

The Test site used by ZTE Corporation to collect test data is located in the 1/F,B2 Wing, ZTE Plaza, Keji Road South, Shenzhen, Guangdong, 518057, P.R.China, Tel: +86-755-26771609,Fax: +86-755-26770347. Test site at ZTE Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC). ZTE Corporation EMC Lab was certificated by CNAS and the registration number was L0611. The FCC registration number of ZTE corporation EMC lab is 373926. The IC registration number of ZTE corporation EMC lab is 5200A. The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

2.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiated emissions measurement at the EMC lab. is 3.8dB,and conducted emission is 2.1dB



3 EQUIPMENT TEST CONFIGURATION

3.1 Identification of EUT

Category: IEEE 802.11b/g /n Wireless Access Point

Model Name: Bgate-GT10-I

Alternate model: N/A

Brand name: N/A

POE Adapter:

Product: Switching Power Supply

Model: DBcom-PSE01A-G

Input: 100-240Vac 50/60Hz

Output: DC48V, 500mA/25W

3.2 Detail Specification

Operation Frequency: 2412 MHz -2462MHz

Type of Spectrum: DBPSK, DQPSK, CCK, OFDM

Category: 802.11b; 802.11g; 802.11n (HT20)

Operation Frequency:2422 MHz -2452MHz

Type of Spectrum: OFDM

Category: 802.11n (HT40)

2.4GHz Antenna Type: Integral antenna

Antenna Number: 1

MIMO Antenna gain: 13.5dBi

Modulation type: BPSK, QPSK,16-QAM,64-QAM

Data rate: 1,2,5.5,6,11,12,18,24,36,48,54 and maximum of 135Mbps



3.3 Information Related to Testing

Test mode

TM1: 120VAC 60Hz TX MODE continuous transmitting with maximum power control level.

Remark: Input voltage have been adjusted from 85% to 115% ,no influence of Fundamental emission found

For 802.11 b, g ,n (HT20)

CH LOW: 2412MHz

CH MID: 2437MHz

CH HIGH: 2462MHz

For 802.11n (HT40)

CH LOW: 2422MHz

CH MID: 2437MHz

CH HIGH: 2452MHz

IEEE 802.11b: 1Mbps data rate

IEEE 802.11g: 6Mbps data rate

IEEE 802.11n HT20: MSC10

IEEE 802.11n HT40: MSC10

Remark: Only the worse case found by prescan is listed

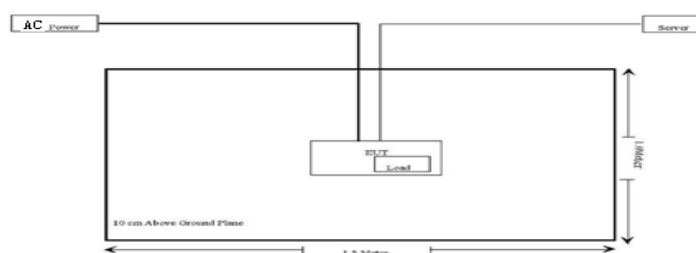
Support Equipment:

Description	Manufacturer	Model No.
RJ 45 Cable connected between POE adapter and EUT	N/A	unshielded 1.5m
RJ 45 Cable connected between POE adapter and PC	N/A	Unshielded 10m
PC	DELL	Pro80Jn
2 x Antenna Interconnecting Cable	N/A	2.0m
Antenna	CIG	TDJ-5158GAX2
POE adapter	N/A	Model: DBcom-PSE01A-G

Configuration of Test Setup



Block Diagram of Test Setup



4 SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna requirement	Not applicable
§15.207(a)	AC line conducted emissions	Compliance
§15.209 §15.247(d)	Radiated Emissions	Compliance
§15.247(a)	6dB Emission Bandwidth	Compliance
§15.247(b)	Maximum Peak Output Power	Compliance
§ 15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(a)	Power Spectral Density	Compliance



5 ANTENNA REQUIREMENT

5.1 Applicable standard: FCC §15.203

5.2 Limit

According to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with the section §15.203 of the rules, §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Further, this requirement does not apply to intentional radiators that must be professionally installed.

This Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.3 Test Data

According to the user manual, the device and cannot be sold retail, to the general public or by mail order. It must be sold to dealers. It is installed by licensed professionals with special training.

The EUT used one dedicated antenna, the maximum gain is 13.5dBi. And according to FCC47CFR section 15.247(b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB than the directional gain of the antenna exceeds 6dBi. Please refer to MAXIMUM PEAK OUTPUT POWER.

5.4 Test Result: Not applicable

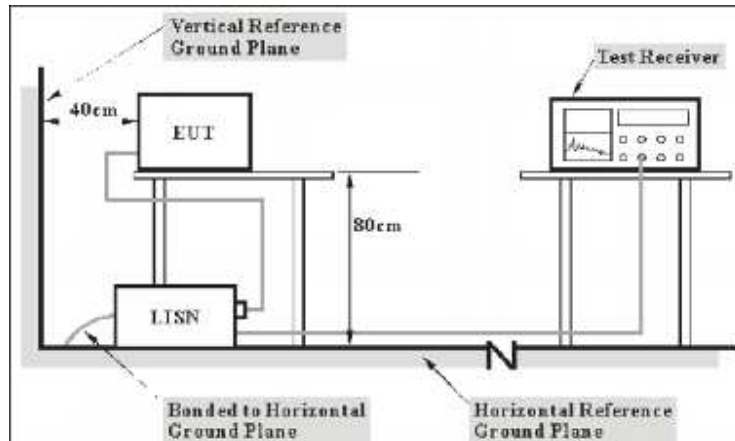
6 AC LINE CONDUCTED EMISSIONS

6.1 Applicable Standard: FCC §15.207

6.2 Test Equipment List and Details

Manufacturer	Equipment	Model	Last Cal.	Cal. Interval
R&S	EMI Test receiver	ESCI 3	2012-7-25	1 year
TESE Q	ISN	ISN T800	2012-5-24	1
Schwarzbeck	LISN	NSLK8128	2012-10-24	1
FCC	Current Probe	F-35	N/A	1

EUT Setup



The setup of EUT is according with per ANSI C63.4-2009 measurement procedure, the specification used was the FCC Part 15.207 limits.

6.3 Test Procedure

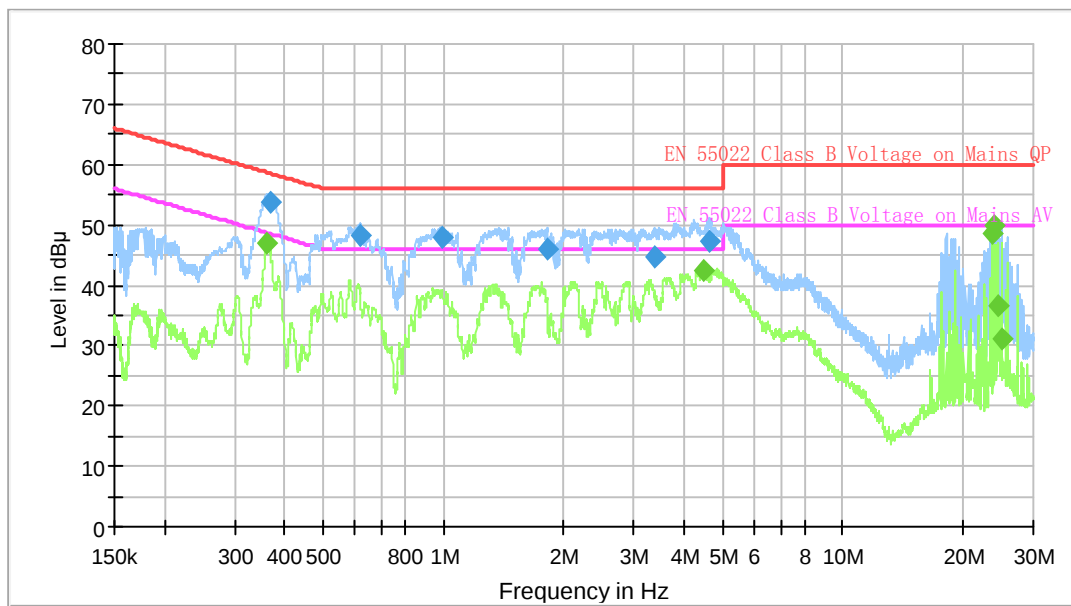
During the conducted emission test, the adapter was connected to the LISN. Maximizing procedure was performed on the six highest emissions of the EUT. All data was recorded in the Quasi-peak and average detection mode.

6.4 Environmental Conditions

Temperature:	20°C
Relative Humidity:	60 %
ATM Pressure:	1009 mbar

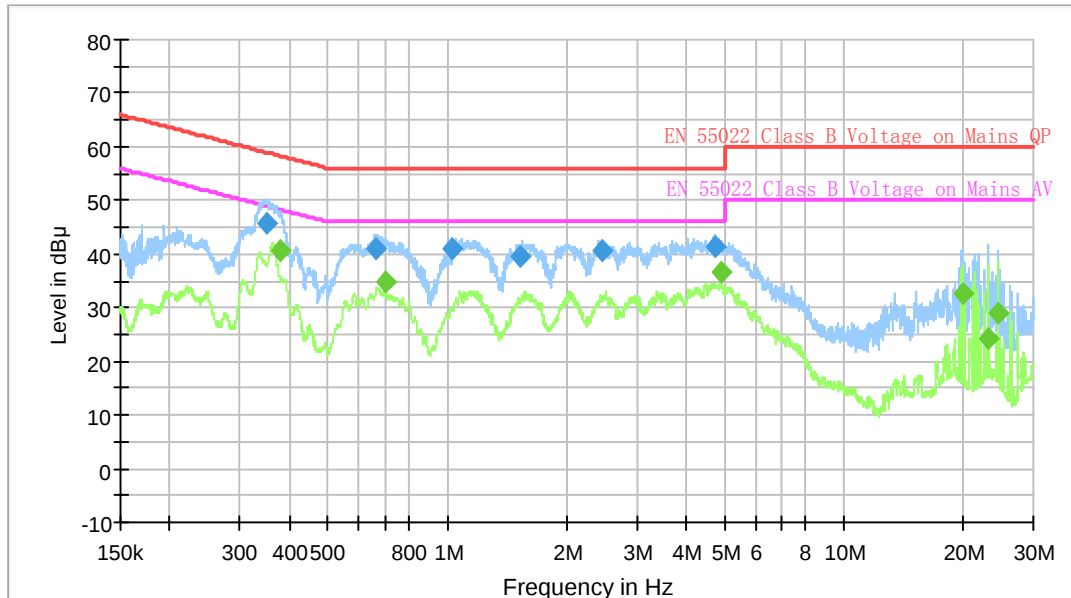
6.5 Test Result: Pass

120Vac/60Hz,Line



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Result(dBuV)	Correction Factor(dB)	Limit(dBuV)	Margin(dB)	Detector (QP/Av)
0.368168	53.6	10.0	58.5	4.9	QP
0.617897	48.3	10.0	56.0	7.7	QP
0.987379	47.9	10.0	56.0	8.1	QP
1.823218	45.9	10.0	56.0	10.1	QP
3.400249	44.7	10.0	56.0	11.3	QP
4.661821	47.3	10.0	56.0	8.7	QP
0.362139	46.9	10.0	48.7	1.8	AV
4.468341	42.5	10.0	46.0	3.5	AV
23.699346	48.4	10.0	50.0	1.6	AV
23.937861	49.9	10.0	50.0	0.1	AV
24.422104	36.6	10.0	50.0	13.4	AV
25.141677	31.0	10.0	50.0	19.0	AV

120Vac/60Hz, Neutral



Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Result(dBuV)	Correction Factor(dB)	Limit(dBuV)	Margin(dB)	Detector (QP/Av)
0.351168	45.9	10.0	58.9	13.1	QP
0.661834	41.0	10.0	56.0	15.0	QP
1.023553	41.0	10.0	56.0	15.0	QP
1.525356	39.4	10.0	56.0	16.6	QP
2.448908	40.6	10.0	56.0	15.4	QP
4.723660	41.5	10.0	56.0	14.5	QP
0.379178	40.8	10.0	48.3	7.5	AV
0.696991	34.9	10.0	46.0	11.1	AV
4.879066	36.5	10.0	46.0	9.5	AV
19.928974	32.5	10.0	50.0	17.5	AV
22.997982	24.2	10.0	50.0	25.8	AV
24.422150	29.1	10.0	50.0	20.9	AV

7 RADIATED EMISSIONS

7.1 Applicable Standard: FCC §15.247(d), 15.209,15.205

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a)

According to FCC Part15.209 and relevant rules:

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency MHz	Distance m	Field strength		Distance m	Field strength dBμV/m(QP)
		μV/m	dBμV/m(QP)		
30-88	3	100	40.0	10	30.0
88-216	3	150	43.5	10	33.5
216-960	3	200	46.0	10	36.0
960-1000	3	500	54.0	10	44.0
Above 1000	3	74.0 dBμV/m (PK) 54.0 dBμV/m (AV)		/	/

15.205 Restricted bands:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

7.2 Test Equipment List and Details

Manufacturer	Equipment	Model	Last Cal.	Cal. Interval
R&S	EMI Test receiver	ESU26	2012-11-3	1 year
R&S	Log periodic Antenna	SWB-VULB 9163	2012-7-25	1 year
R&S	Horn Antenna	HF907	2012-7-25	1 year
ETS-LINDGREN	Active loop Antenna	6502	2012-7-16	1 year

7.3 Test Procedure

During the radiated emission test, the MIMO and continuously Tx mode was used. The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast.

The EUT were rotated 0 to 360 degree and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. The test results are reported as below.

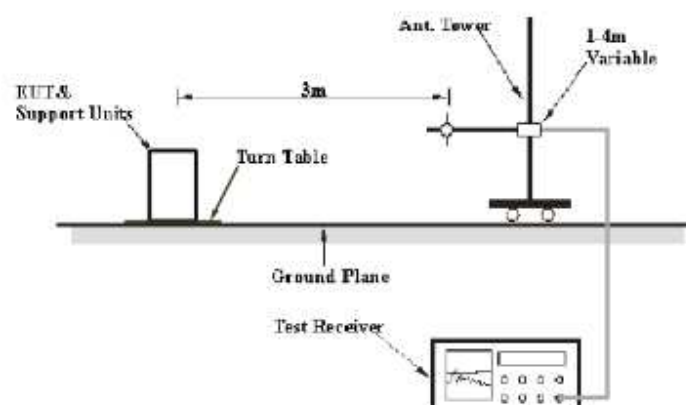
The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. Detector function for radiated emissions above 1GHz is in peak mode and Quasi-Peak mode is used below 1GHz. The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Above 1000 MHz, a resolution bandwidth of 1 MHz as below is used.

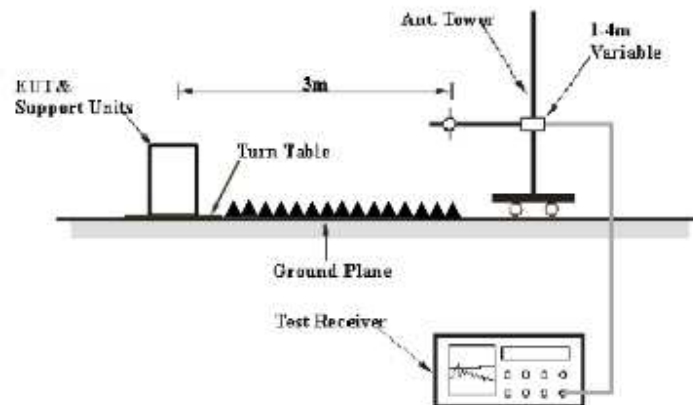
RBW=1MHz; VBW=1MHz, PK detector for peak emissions measurement above 1GHz

RBW=1MHz; VBW=10Hz, AV detector for average emissions measure above 1GHz

EUT Setup:

Below 1 GHz





7.4 Environmental Conditions

Temperature:	20°C
Relative Humidity:	60 %
ATM Pressure:	1009 mbar

7.5 Test Result: Pass

Remark: If PK value is lower than AV limit, only show PK diagram as below, the spurious emissions more than 20 dB below the permissible value are not reported.

From 9 KHz to 30MHz and 18GHz to 25GHz, the spurious emissions more than 20 dB below the limit.

For some 7G to 18G, Spurious Emission meet the limits of the field strength that not be measured.

“*” donates fundamental frequency.

For restriction band test: Only list the restriction band test which there found emission.

For other restriction band: no emission found.

For Radiated emission test: The EUT has been tested at X, Y, Z axial direction. Only list the worse mode,

Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Comment
30.032333	27.2	H	12.8	40.0	Diagram 1-1
32.619000	31.6	H	8.4	40.0	
359.994000	43.0	H	3.0	46.0	
600.004333	32.4	H	13.6	46.0	
720.025667	36.8	H	9.2	46.0	
840.014667	36.9	H	9.1	46.0	
36.466667	31.7	V	8.3	40.0	Diagram 1-2
47.524667	29.4	V	10.6	40.0	
55.834333	33.3	V	6.7	40.0	
359.994000	39.0	V	7.0	46.0	
479.950667	34.1	V	11.9	46.0	
839.982333	40.6	V	5.4	46.0	

Diagram 1-1 2.4G B HOR

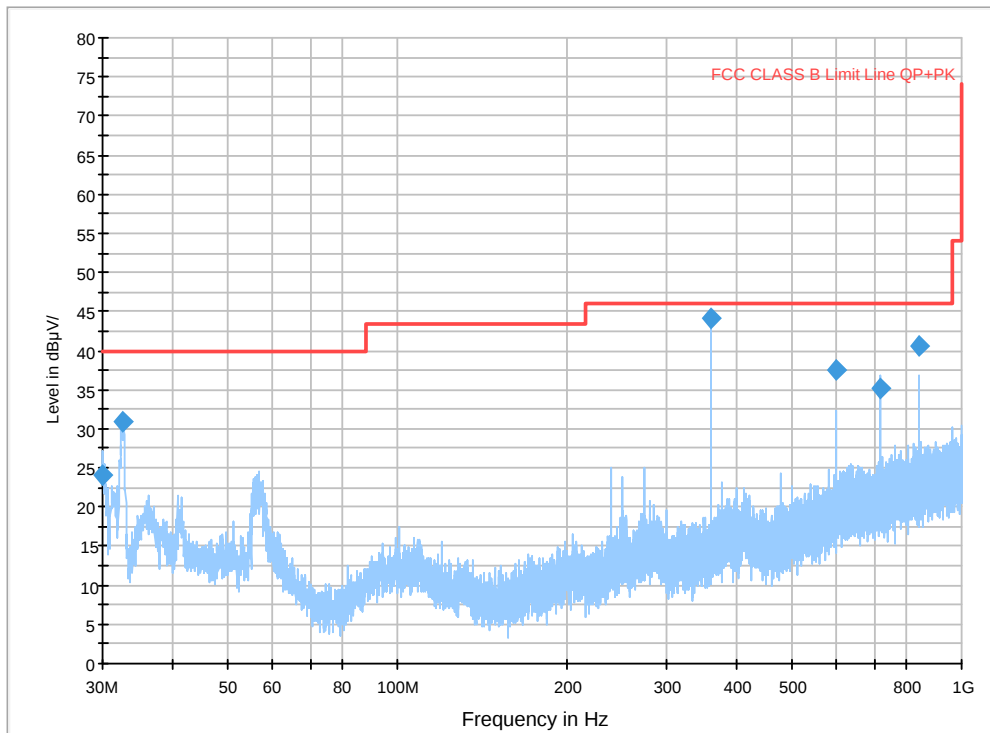
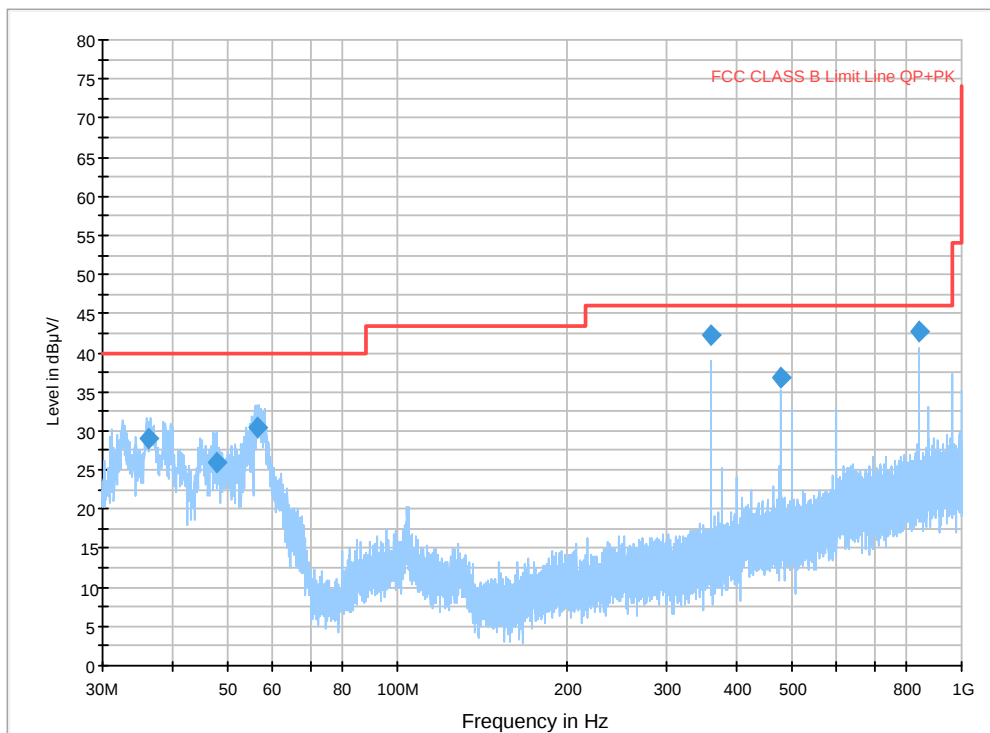


Diagram 1-2 2.4G B VER



Test Mode

802.11.b-2412MHz

Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	Comment
1679.871333	41.9	H	32.1	74.0	PK	Diagram 1-3
4816.881000	47.7	H	26.3	74.0	PK	
1680.051333	34.2	H	19.8	54.0	AV	
2514.499333	45.7	V	28.3	74.0	PK	Diagram 1-5
4824.731000	48.7	V	25.3	74.0	PK	
2514.617666	246.0	V	11.5	54.0	AV	
7235.257333	49.3	V	24.7	74.0	PK	Diagram 1-6
7236.454667	40.2	V	13.8	54.0	AV	

Diagram 1-3 2.4G B 2412 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

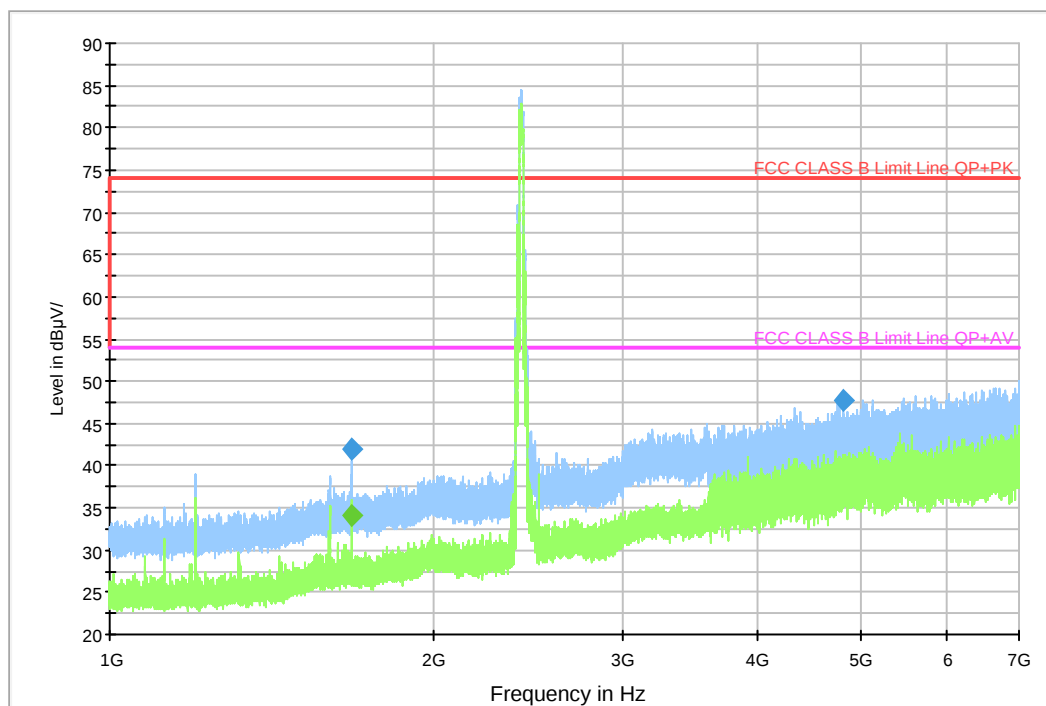


Diagram 1-4 2.4G B 2412 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

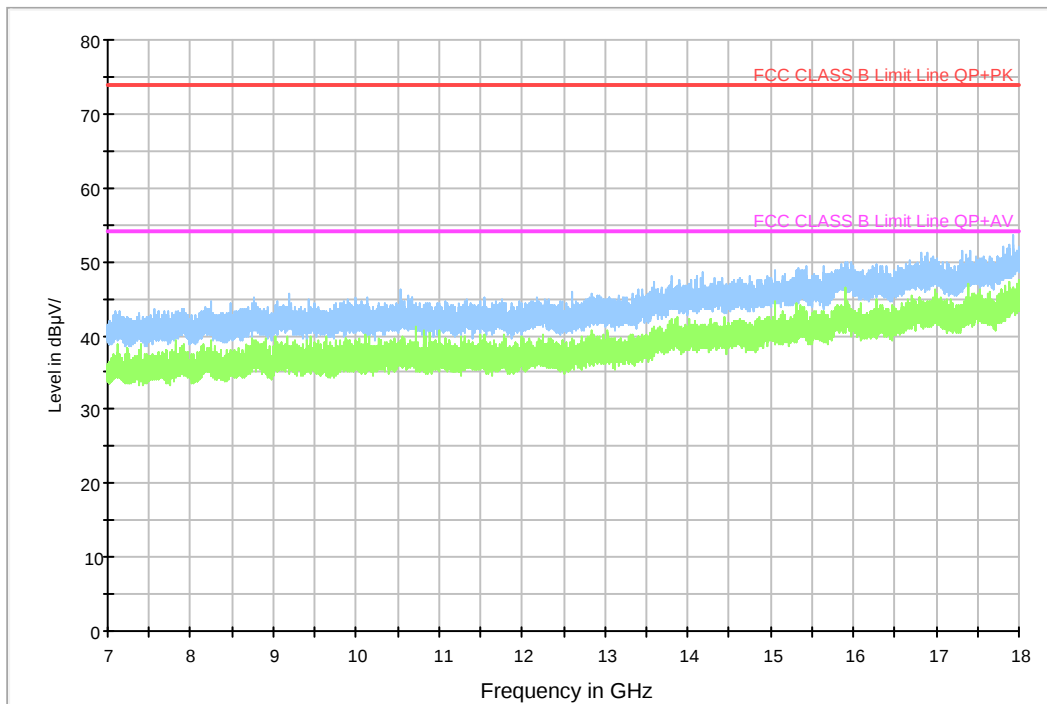


Diagram 1-5 2.4G B 2412 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

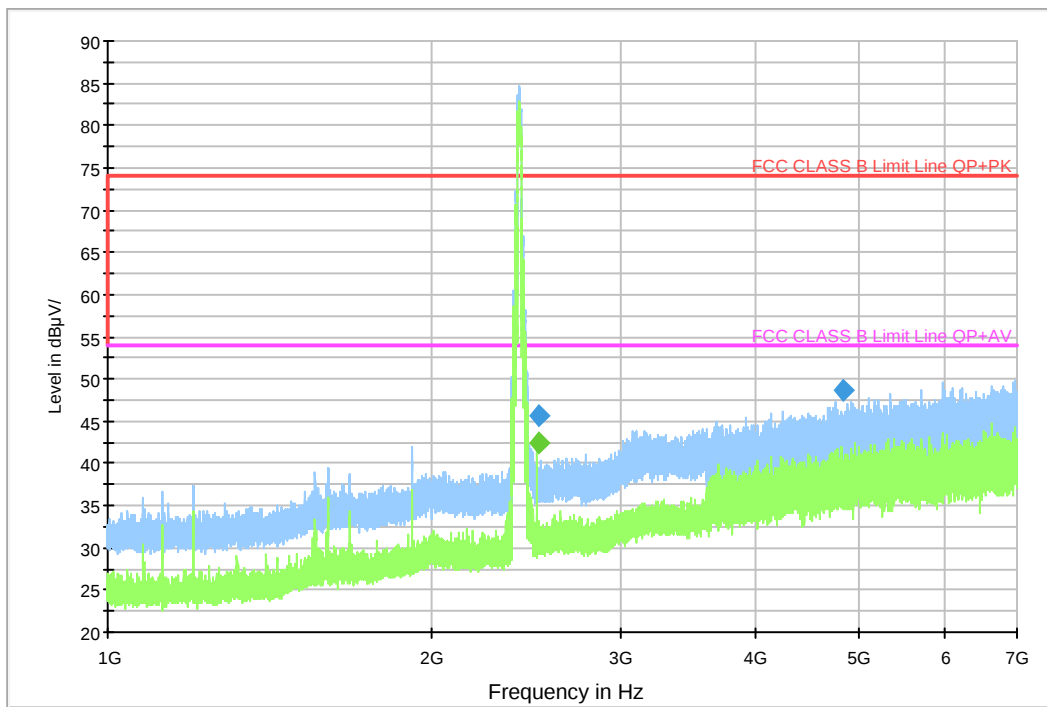
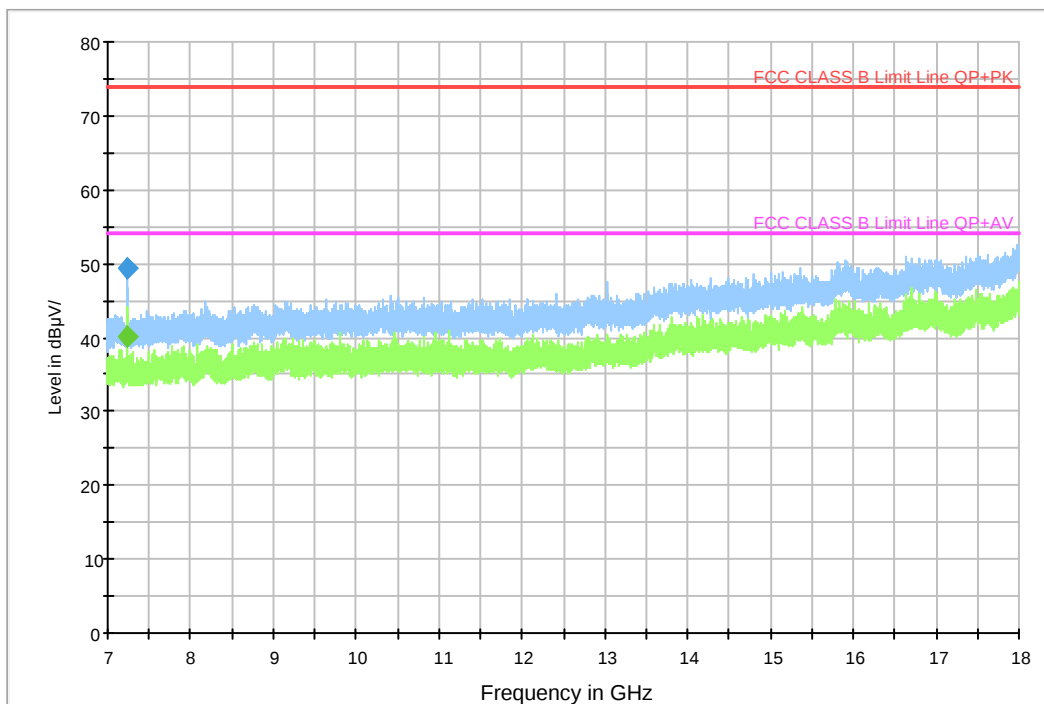


Diagram 1-6 2.4G B 2412 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode		802.11.b-2437MHz				
Frequency (MHz)	Reading (dBµV/m)	Polarization	Margin (dB)	Limit (dBµV/m)	Detector (PK/AV)	Comment
1319.926667	46.6	H	27.4	74.0	PK	Diagram 1-7
4867.918333	48.4	H	25.6	74.0	PK	
1320.084000	43.0	H	11.0	54.0	AV	
1319.911000	48.3	V	25.8	74.0	PK	Diagram 1-9
4870.837667	48.5	V	25.5	74.0	PK	
1320.043334	46.1	V	7.9	54.0	AV	

Diagram 1-7 2.4G B 2437 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

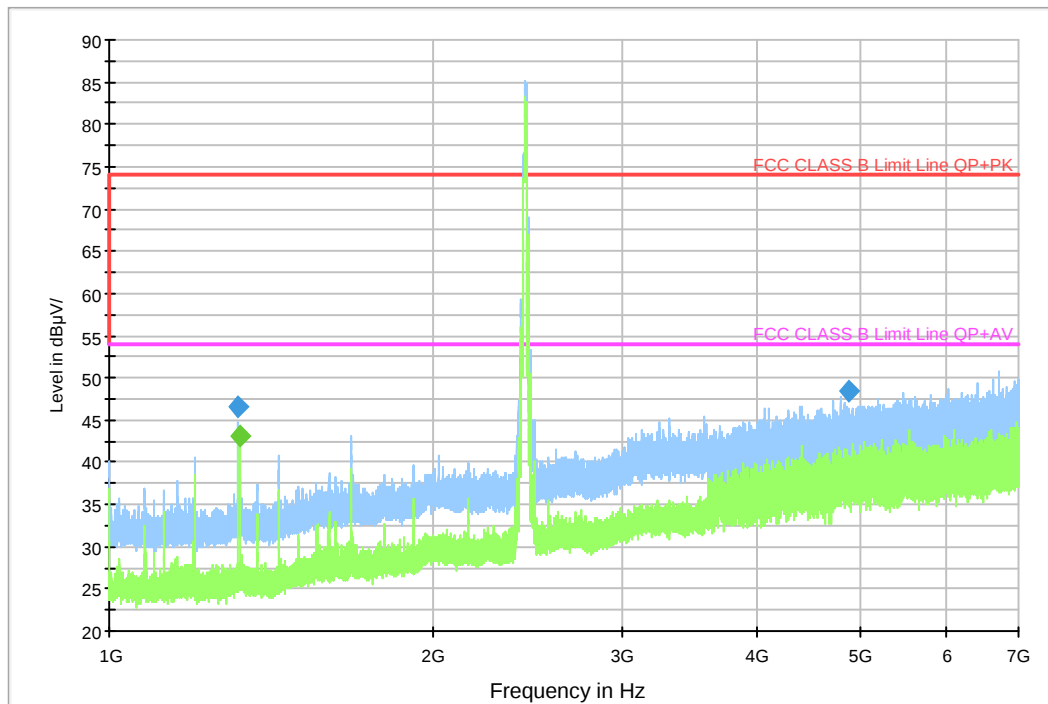


Diagram 1-8 2.4G B 2437 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

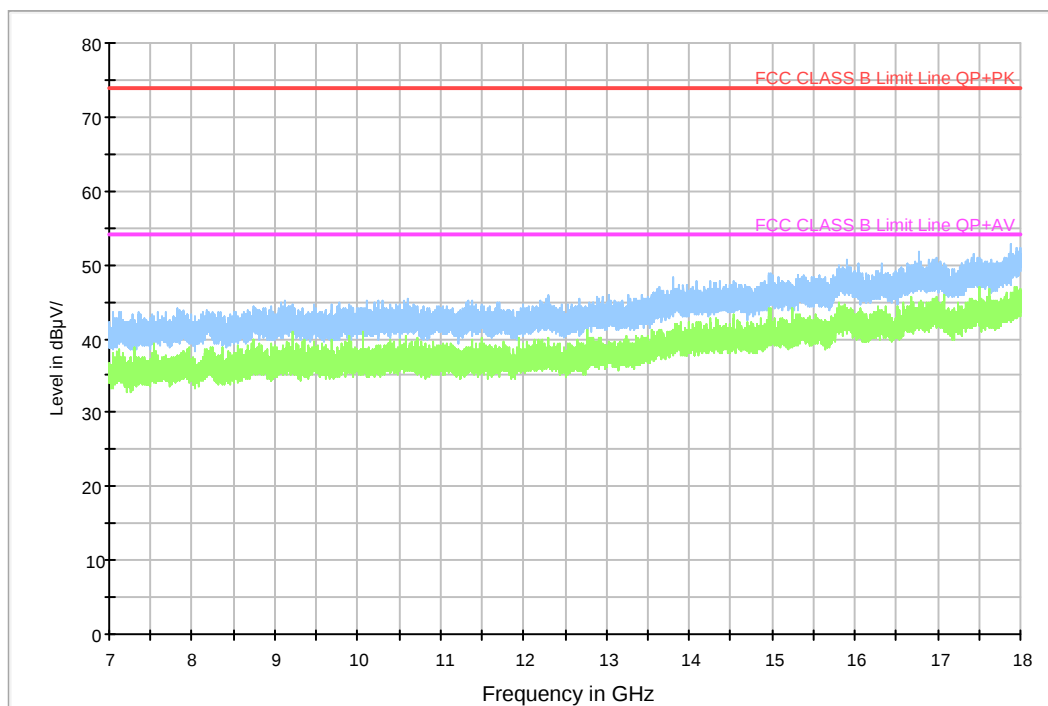


Diagram 1-9 2.4G B 2437 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

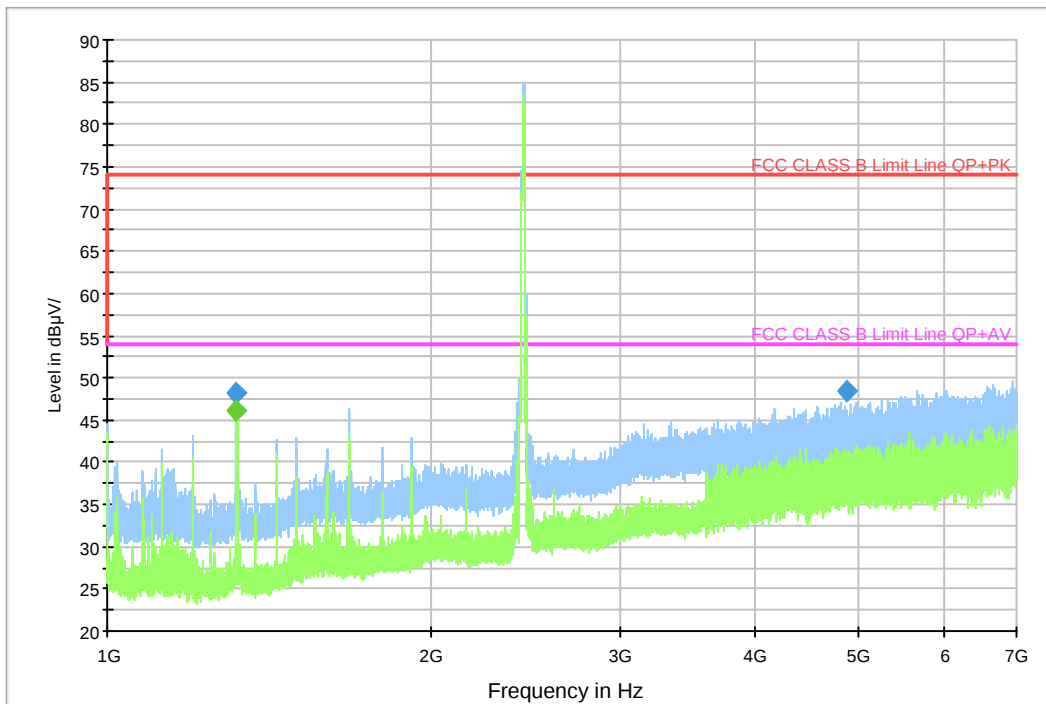
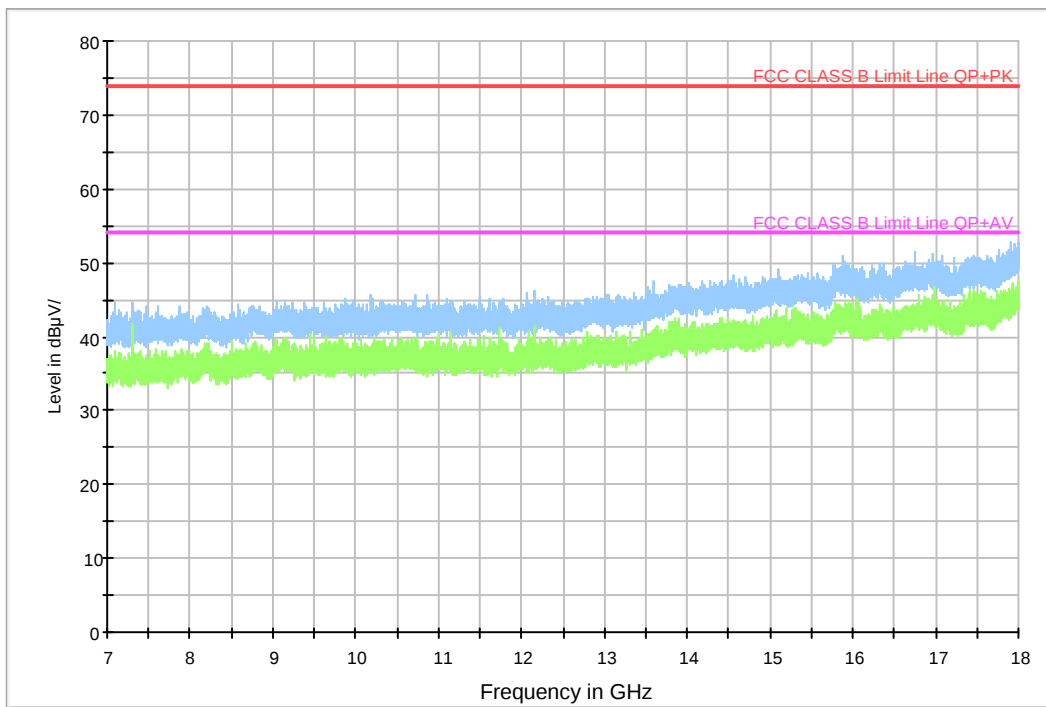


Diagram 1-10 2.4G B 2437 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER





FCC ID: SFG-BGATE

Test Mode	802.11.b-2462MHz					
Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	Comment
1320.098667	46.5	H	27.5	74.0	PK	Diagram 1-11
4933.191666	48.8	H	25.2	74.0	PK	
1319.996000	43.0	H	11.0	54.0	AV	
1320.105333	49.0	V	25.0	74.0	PK	Diagram 1-13
4910.383666	48.5	V	25.5	74.0	PK	
1000.124667	41.2	V	12.8	54.0	AV	
1319.908333	45.5	V	8.5	54.0	AV	

Diagram 1-11 2.4G B 2462 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

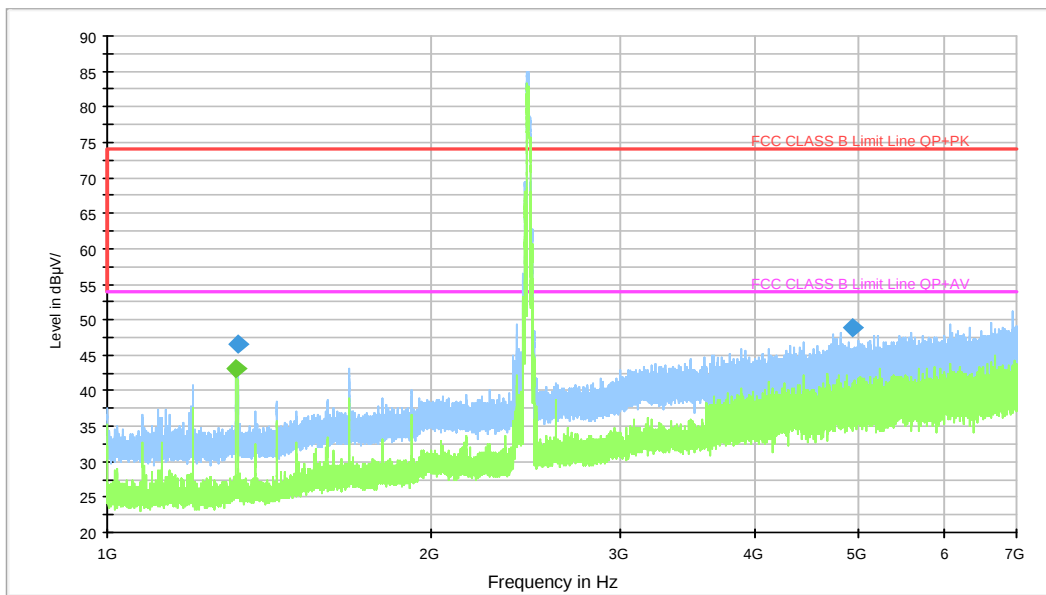


Diagram 1-12 2.4G B 2462 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

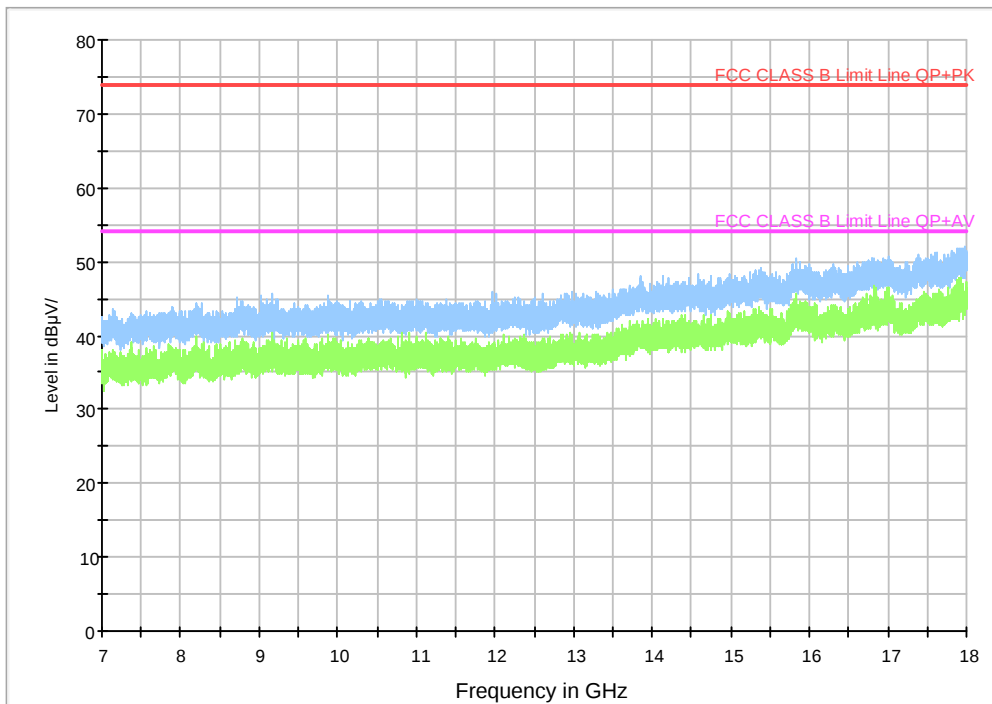


Diagram 1-13 2.4G B 2462 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

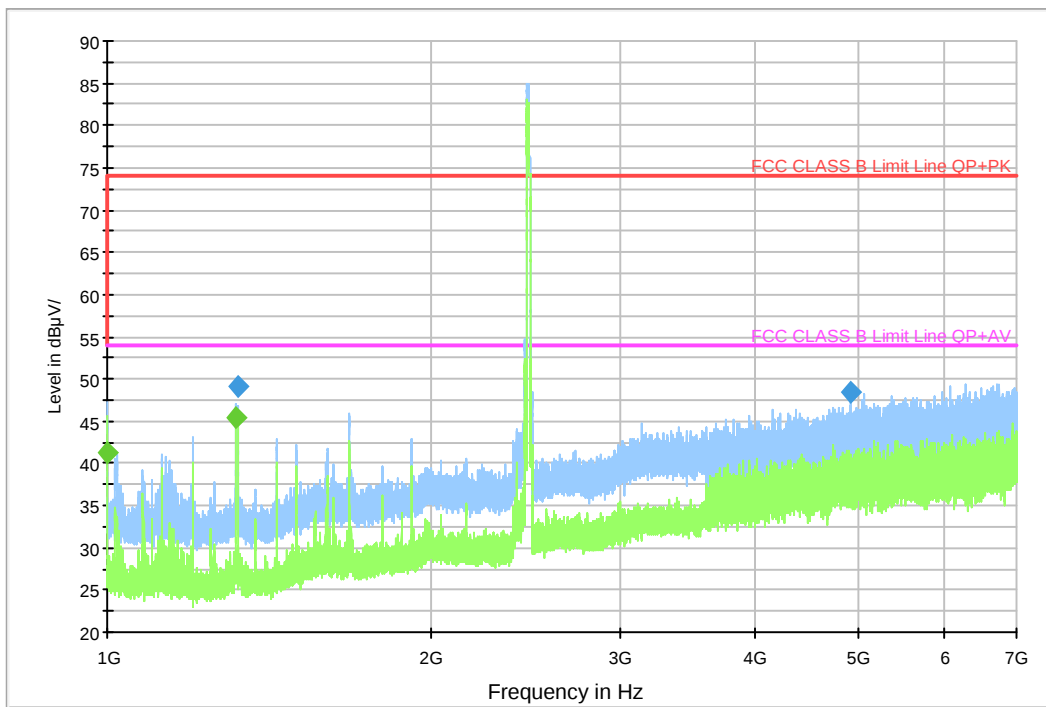
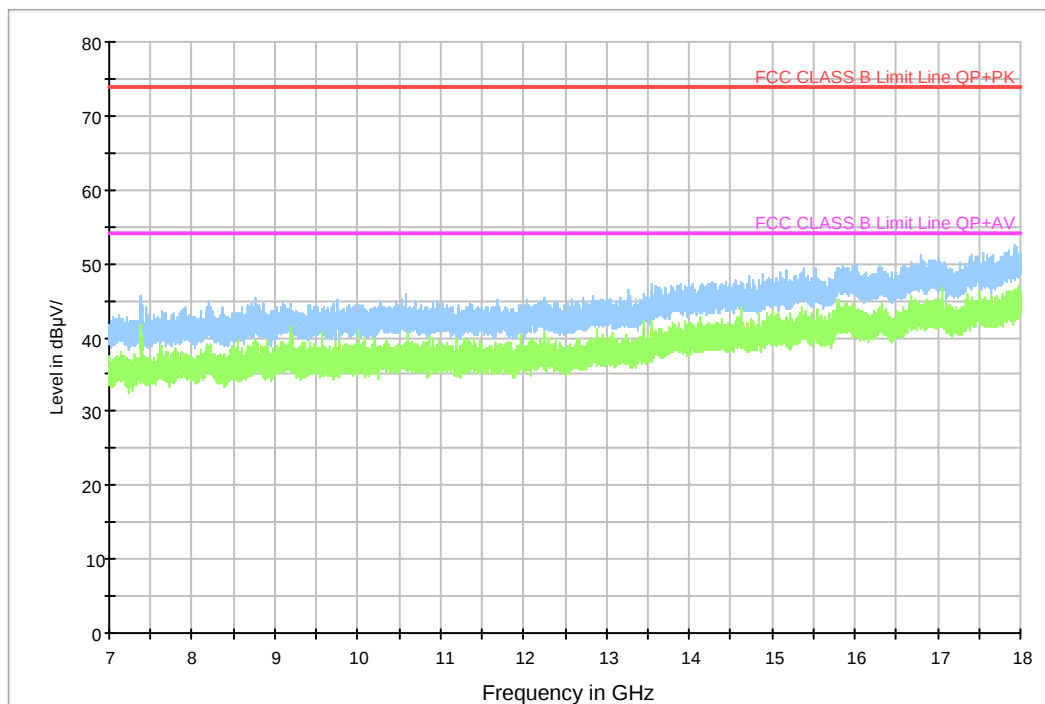


Diagram 1-14 2.4G B 2462 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.g-2412MHz					
Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	COMMENT
1199.938333	41.6	H	32.4	74.0	PK	Diagram 1-15
4821.869333	48.7	H	25.3	74.0	PK	
1199.838666	35.6	H	18.4	54.0	AV	
7244.702667	57.5	H	16.5	74.0	PK	Diagram 1-16
7232.225333	35.6	H	18.4	54.0	AV	
1599.801666	43.4	V	30.6	74.0	PK	Diagram 1-17
4819.248666	48.8	V	25.2	74.0	PK	
1599.936000	37.1	V	16.9	54.0	AV	
7233.520000	56.7	V	17.3	74.0	PK	Diagram 1-18
7240.189334	41.8	V	12.2	54.0	AV	

Diagram 1-15 2.4G G 2412 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

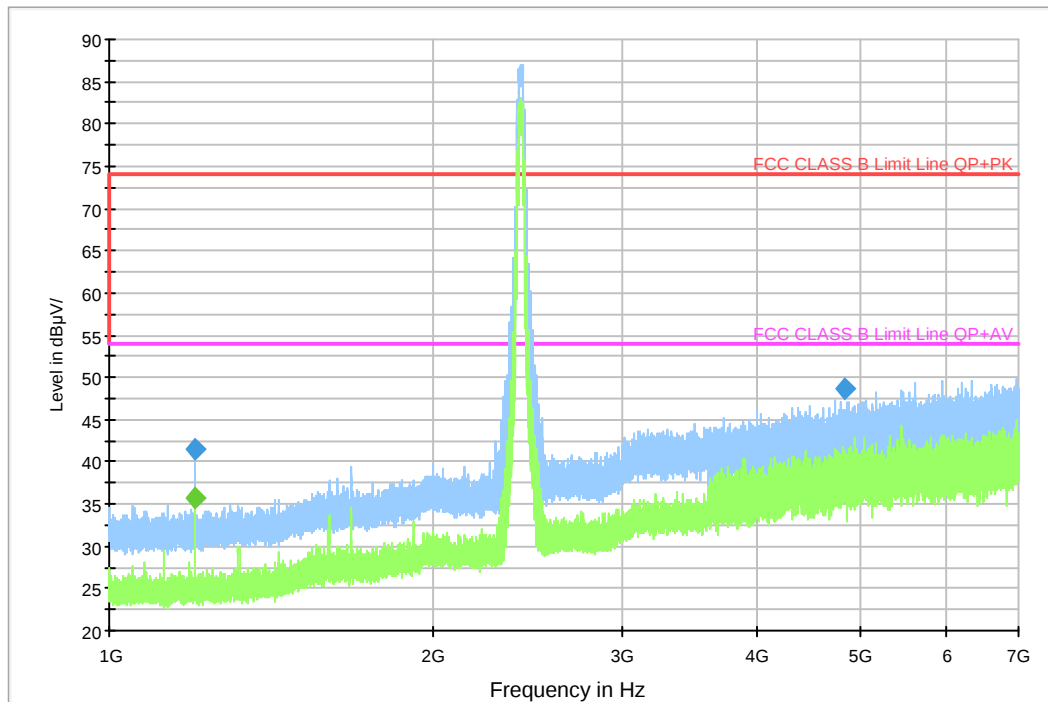


Diagram 1-16 2.4G G 2412 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

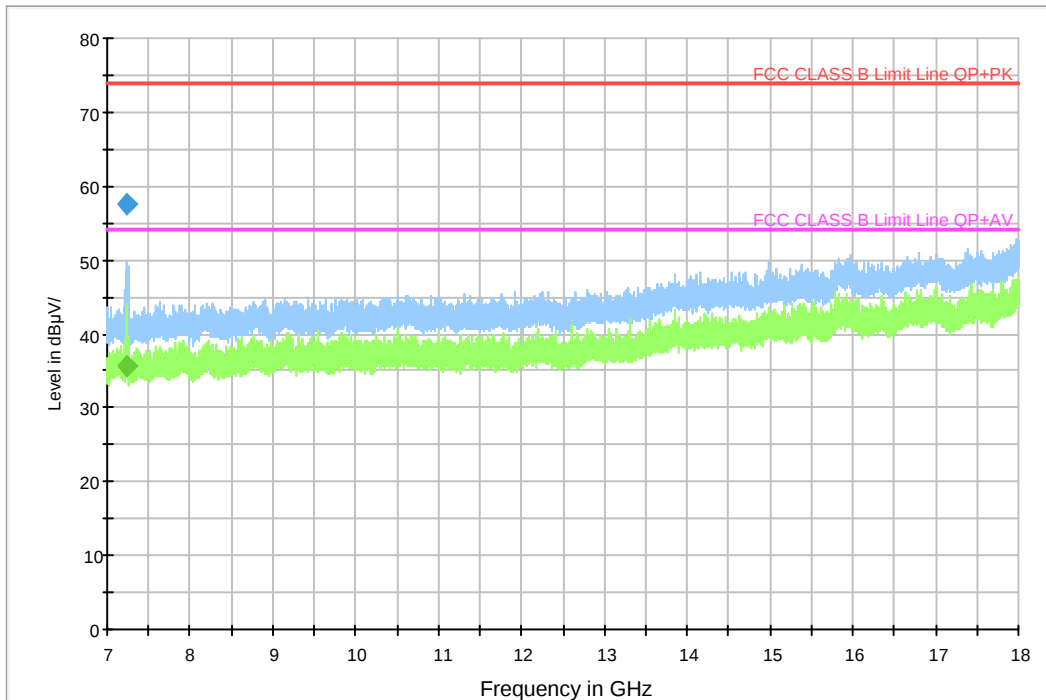


Diagram 1-17 2.4G G 2412 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

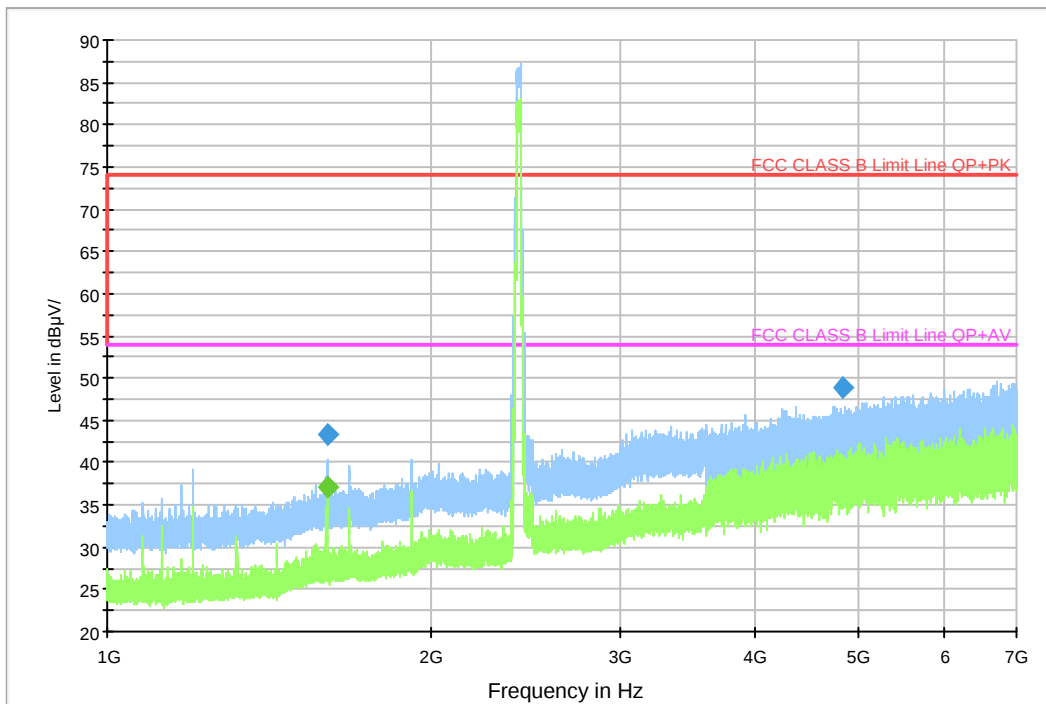
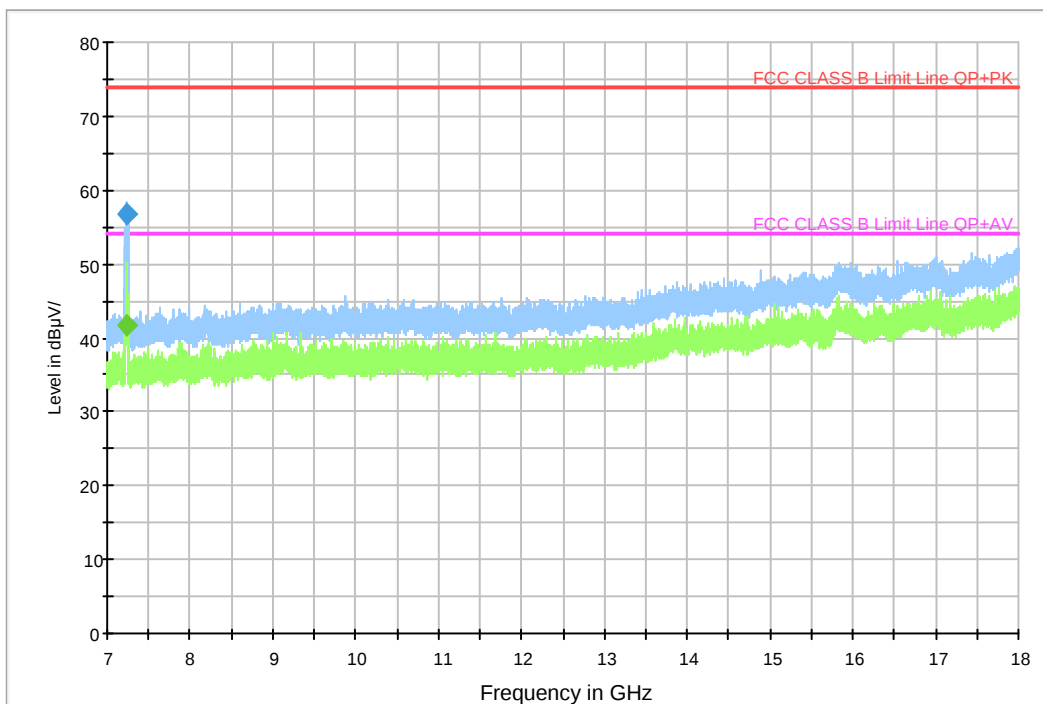


Diagram 1-18 2.4G G 2412 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.g-2437MHz					
Frequency (MHz)	Reading (dBµV/m)	Polarization	Margin (dB)	Limit (dBµV/m)	Detector (PK/AV)	Comment
1197.635000	40.8	H	33.2	74.0	PK	Diagram 1-19
4822.674000	49.6	H	24.4	74.0	PK	
1195.657000	37.9	H	16.1	54.0	AV	
7314.243333	49.0	H	25	74.0	PK	Diagram 1-20
7312.28000	48.0	H	6	54.0	AV	
1597.568000	42.4	V	31.6	74.0	PK	Diagram 1-21
4820.867000	50.1	V	23.9	74.0	PK	
1601.321000	38.5	V	15.5	54.0	AV	
7302.223666	61.6	V	12.4	74.0	PK	Diagram 1-22
7318.280667	39.2	V	14.8	54.0	AV	

Diagram 1-19 2.4G G 2437 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

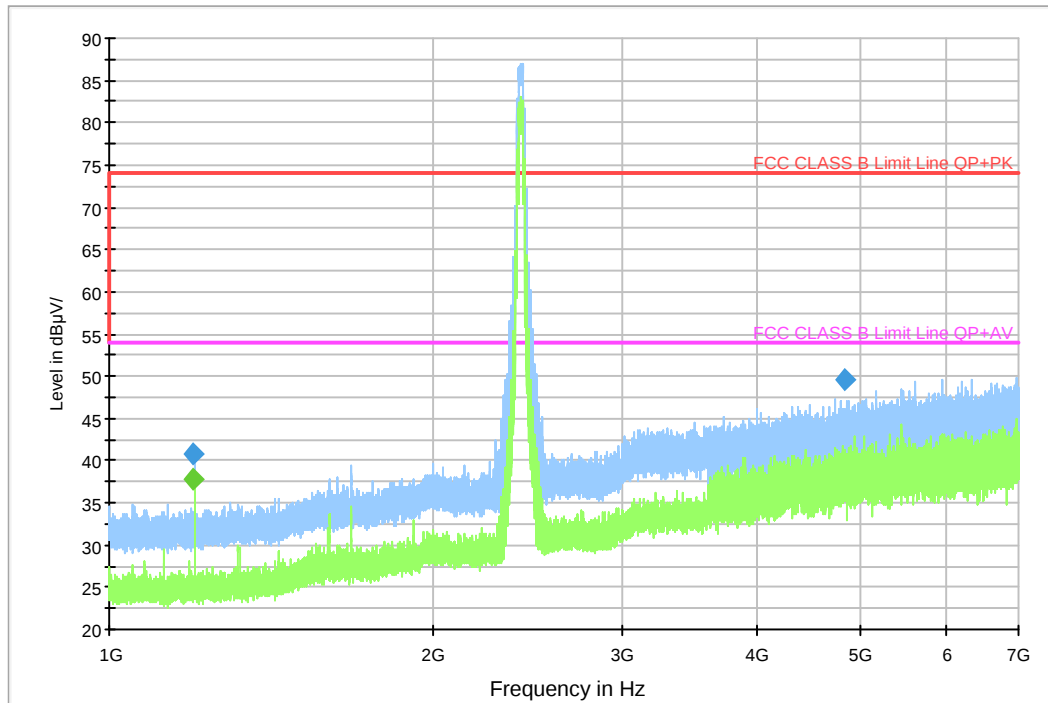


Diagram 1-20 2.4G G 2437 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

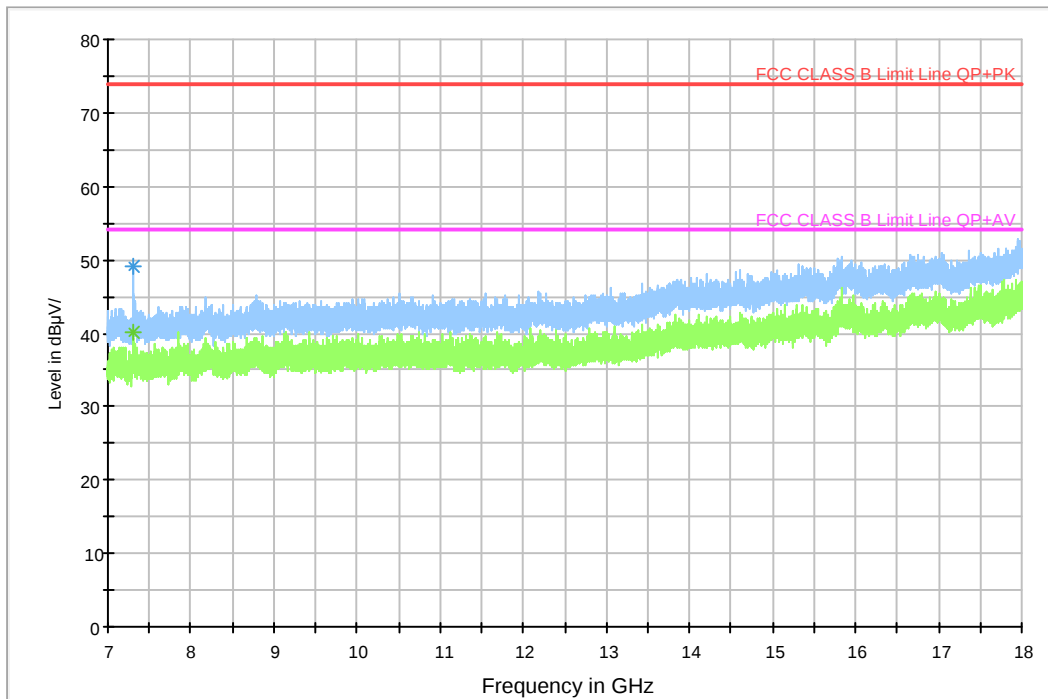


Diagram 1-21 2.4G G 2437 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

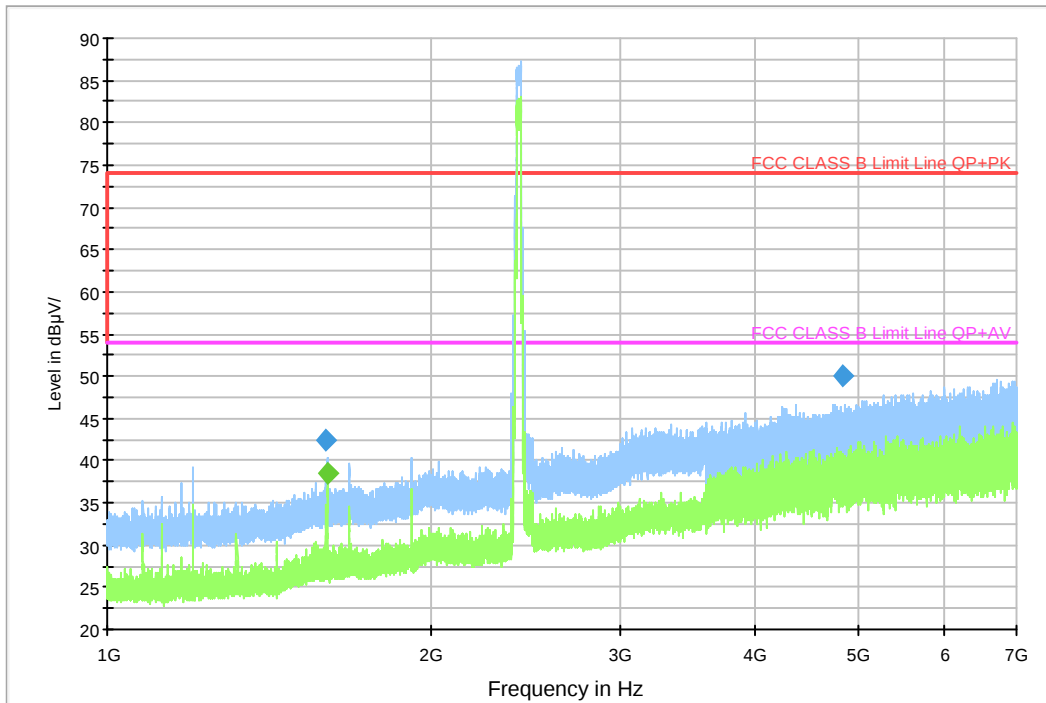
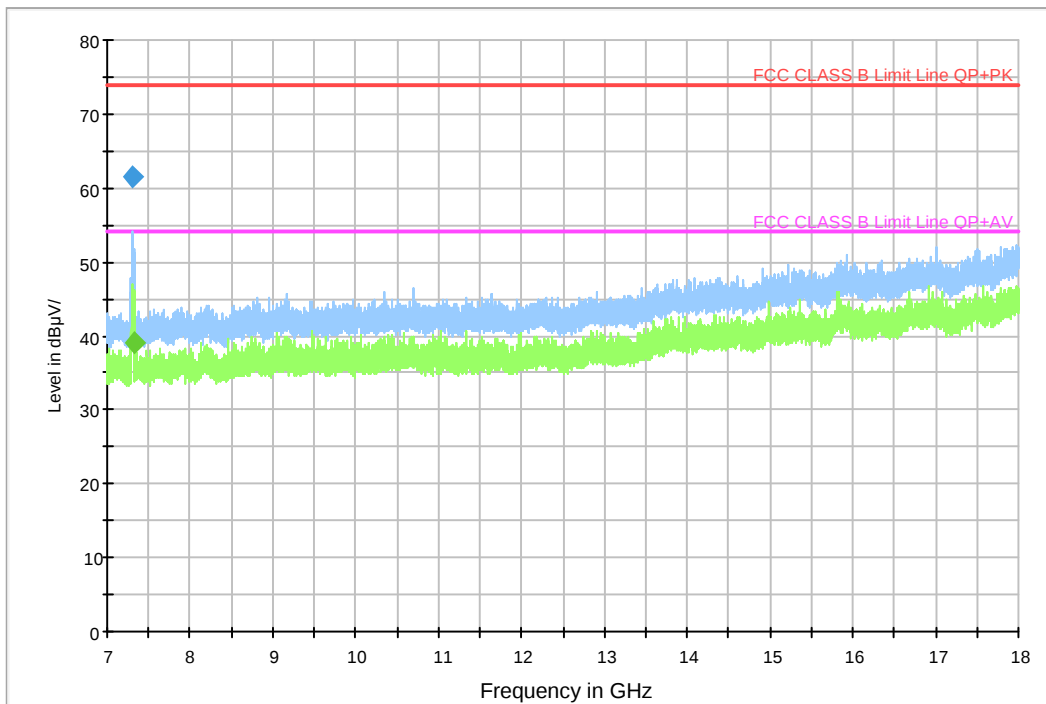


Diagram 1-22 2.4G G 2437 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.g-2462MHz					
Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	Comment
2611.696666	47.0	H	27.0	74.0	PK	Diagram 1-23
4924.163333	48.6	H	25.4	74.0	PK	
2612.706667	33.2	H	20.8	54.0	AV	
7386.586667	49.6	H	24.4	74.0	PK	Diagram 1-24
7389.091666	34.5	H	19.5	54.0	AV	
1920.242333	42.5	V	31.5	74.0	PK	Diagram 1-25
4919.534333	48.9	V	25.1	74.0	PK	
1919.914333	36.2	V	17.8	54.0	AV	
7390.156334	57.1	V	16.9	74.0	PK	Diagram 1-26
7390.809667	36.8	V	17.2	54.0	AV	

Diagram 1-23 2.4G G 2462 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

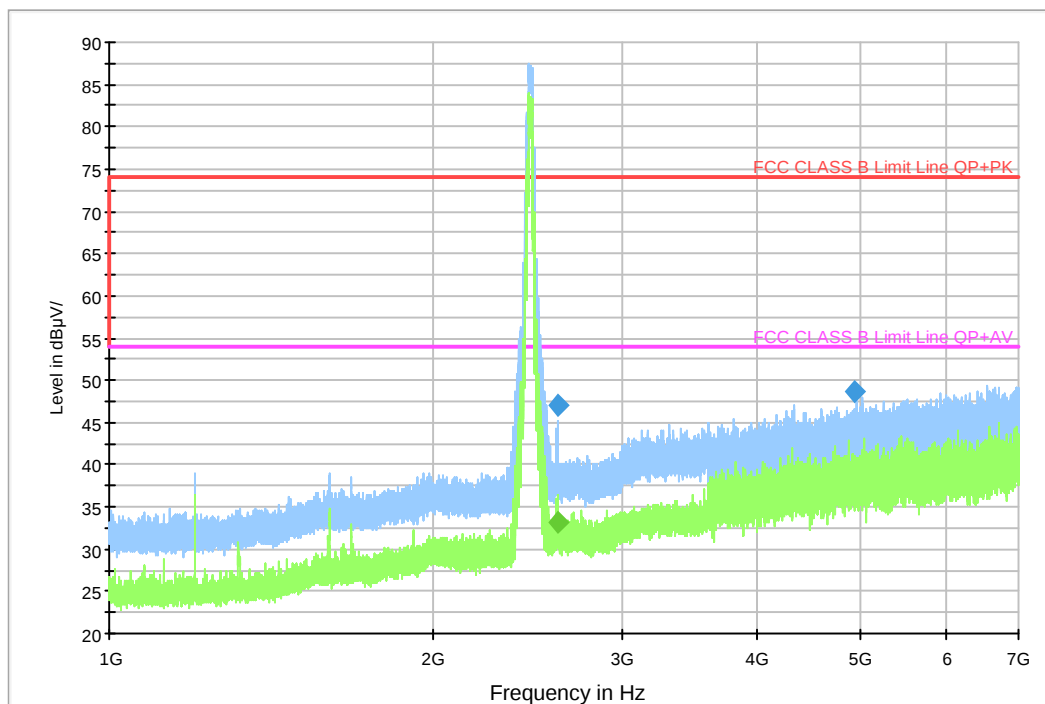


Diagram 1-24 2.4G G 2462 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

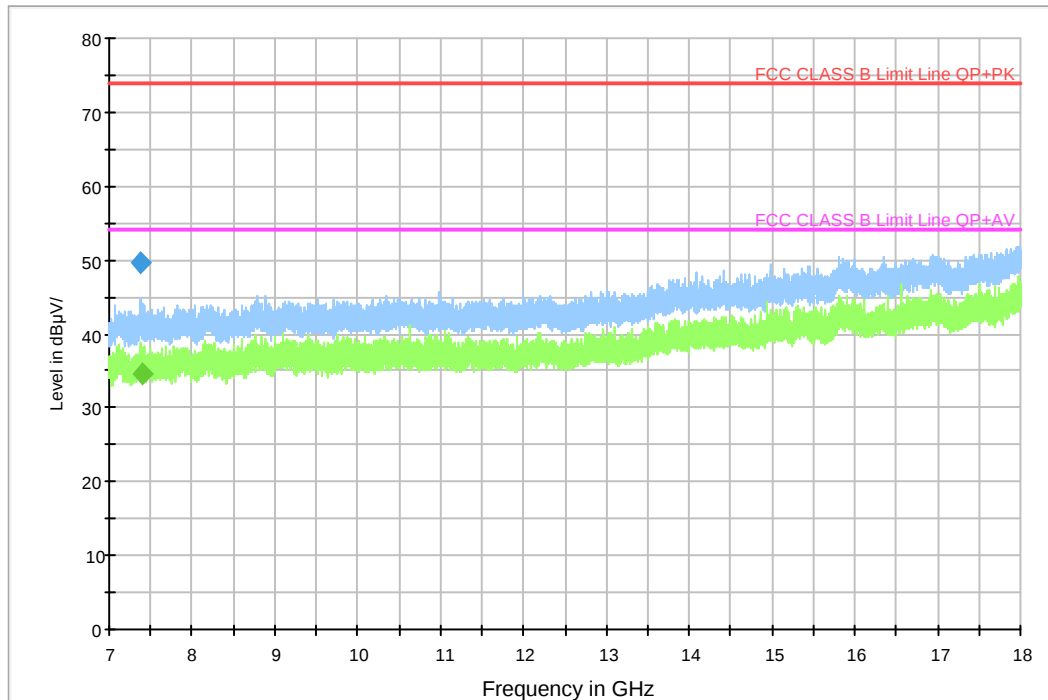


Diagram 1-25 2.4G G 2462 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

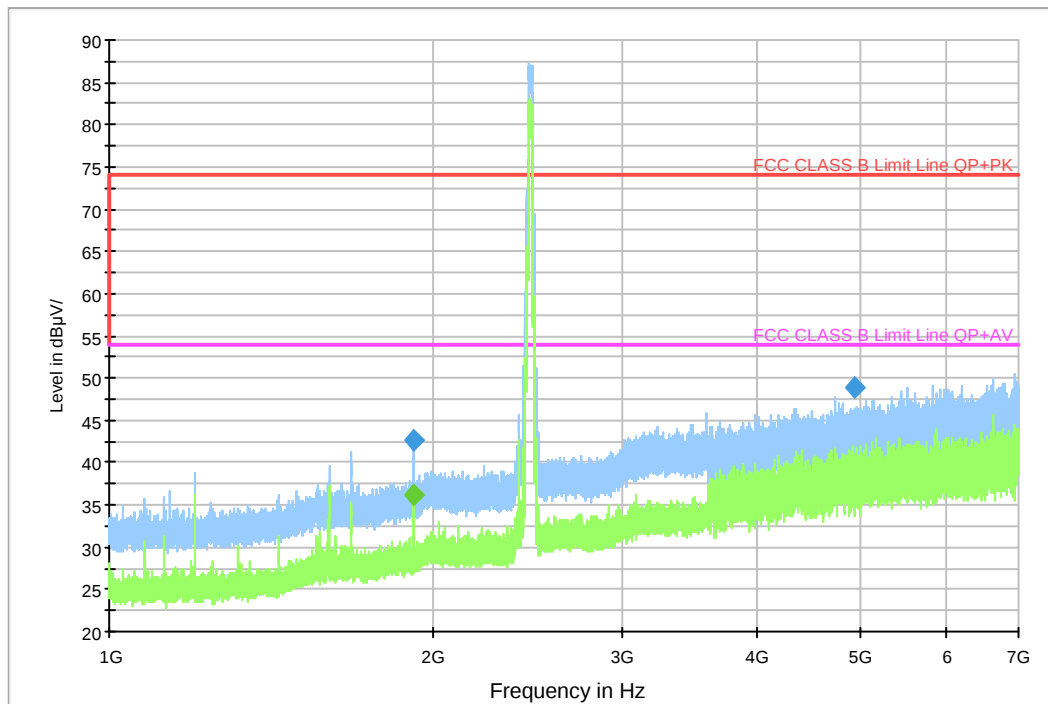
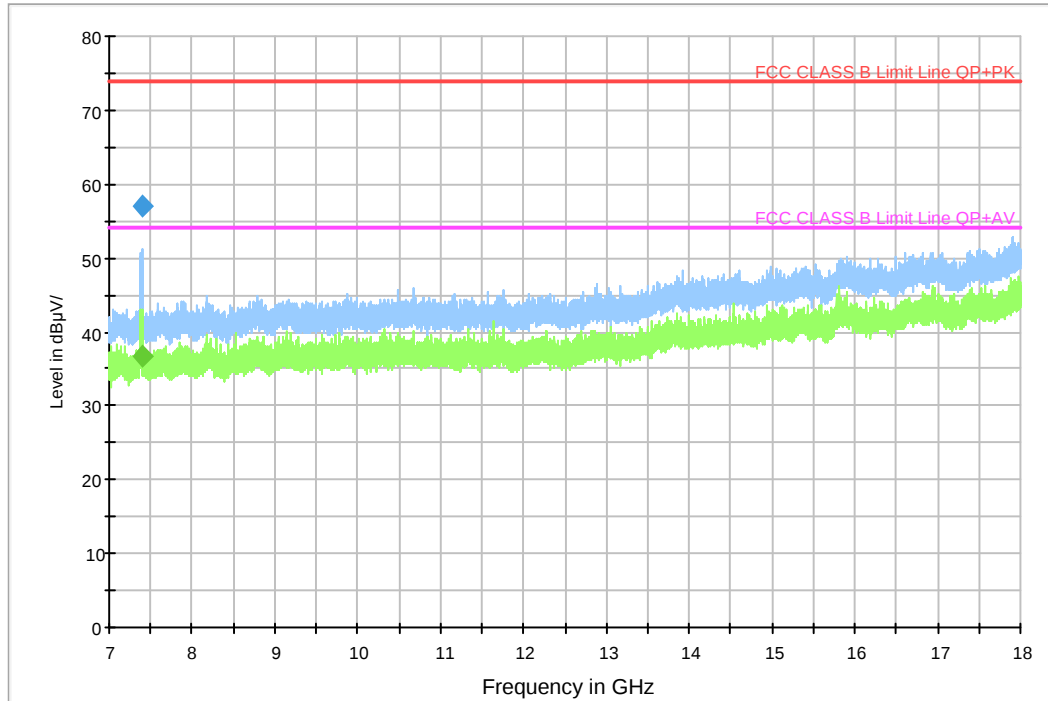


Diagram 1-26 2.4G G 2462 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode 802.11.N20-2412MHz						
Frequency (MHz)	Reading (dBµV/m)	Polarization	Margin (dB)	Limit (dBµV/m)	Detector (PK/AV)	Comment
1199.762000	41.9	H	32.1	74.0	PK	Diagram 1-27
4828.686667	48.2	H	25.8	74.0	PK	
1199.859334	35.9	H	18.1	54.0	AV	
1919.813334	43.5	V	30.5	74.0	PK	Diagram 1-29
4820.859000	47.9	V	26.1	74.0	PK	
1920.081333	36.0	V	18.0	54.0	AV	
7230.625000	56.6	V	17.4	74.0	PK	Diagram 1-30
7230.625000	34.7	V	19.3	54.0	AV	

Diagram 1-27 2.4G N20 2412 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

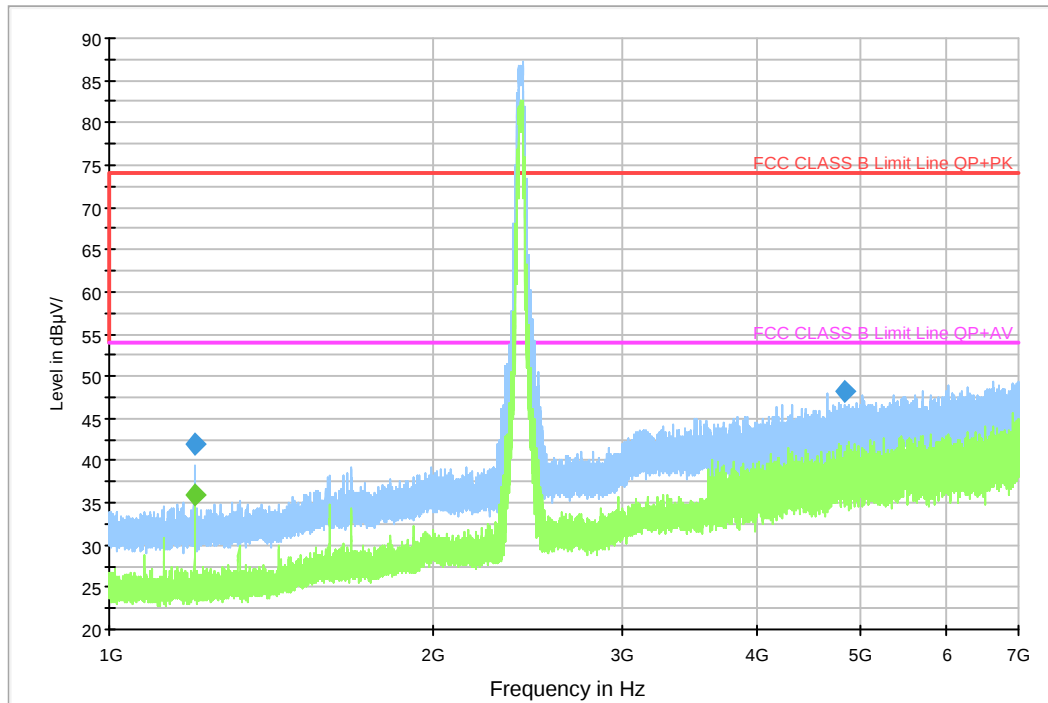


Diagram 1-28 2.4G N20 2412 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

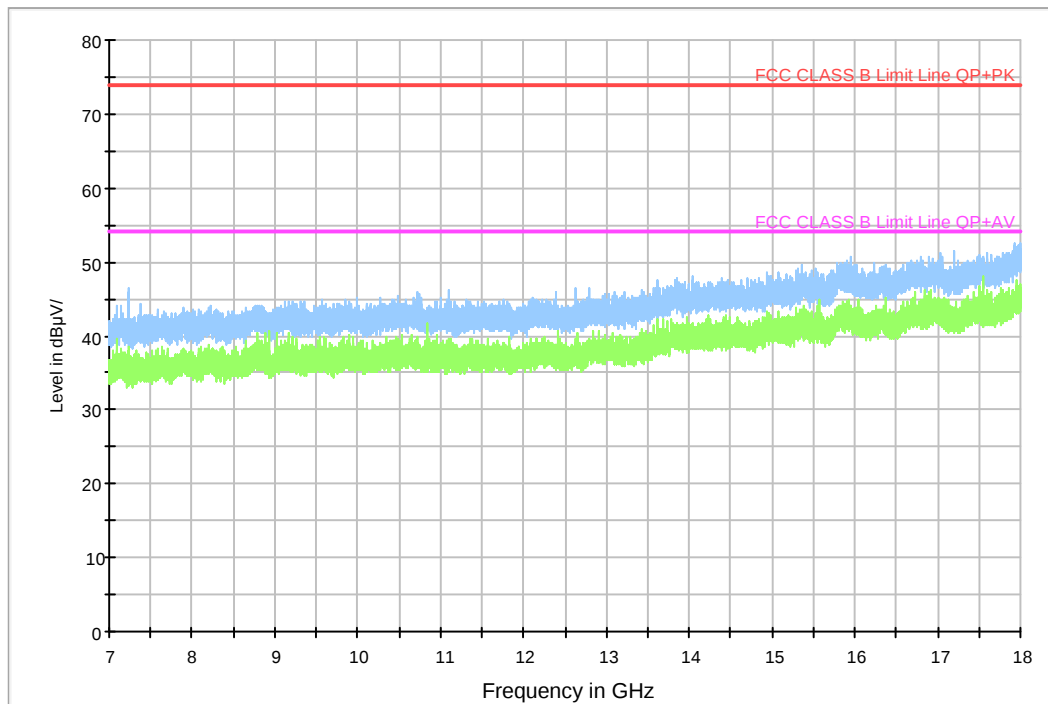


Diagram 1-29 2.4G N20 2412 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

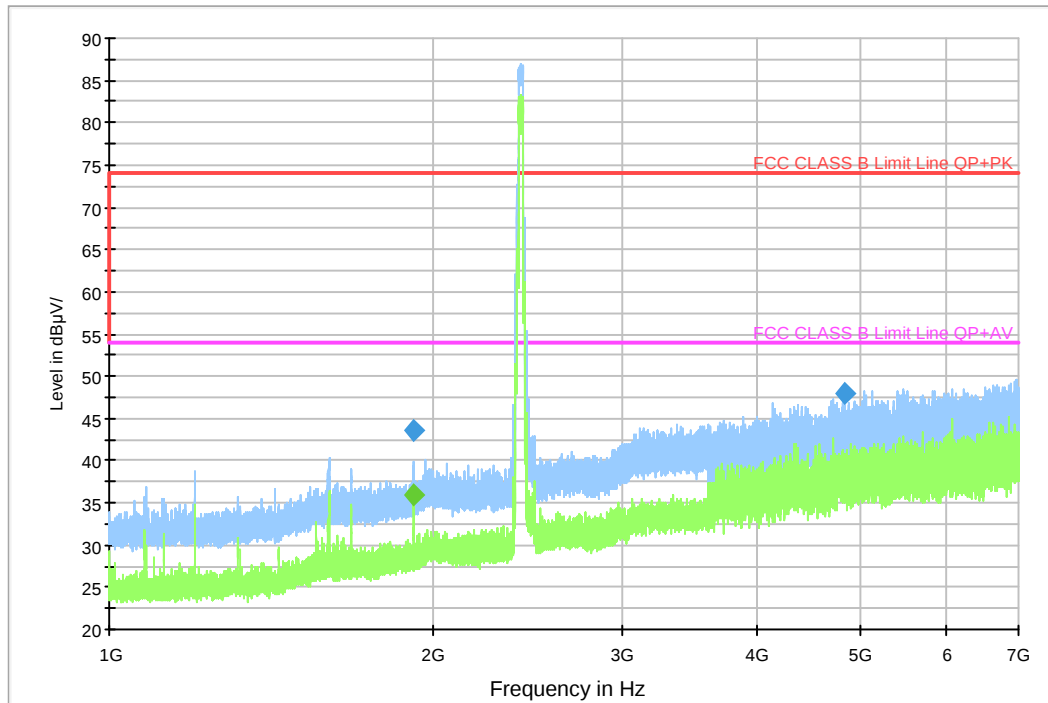
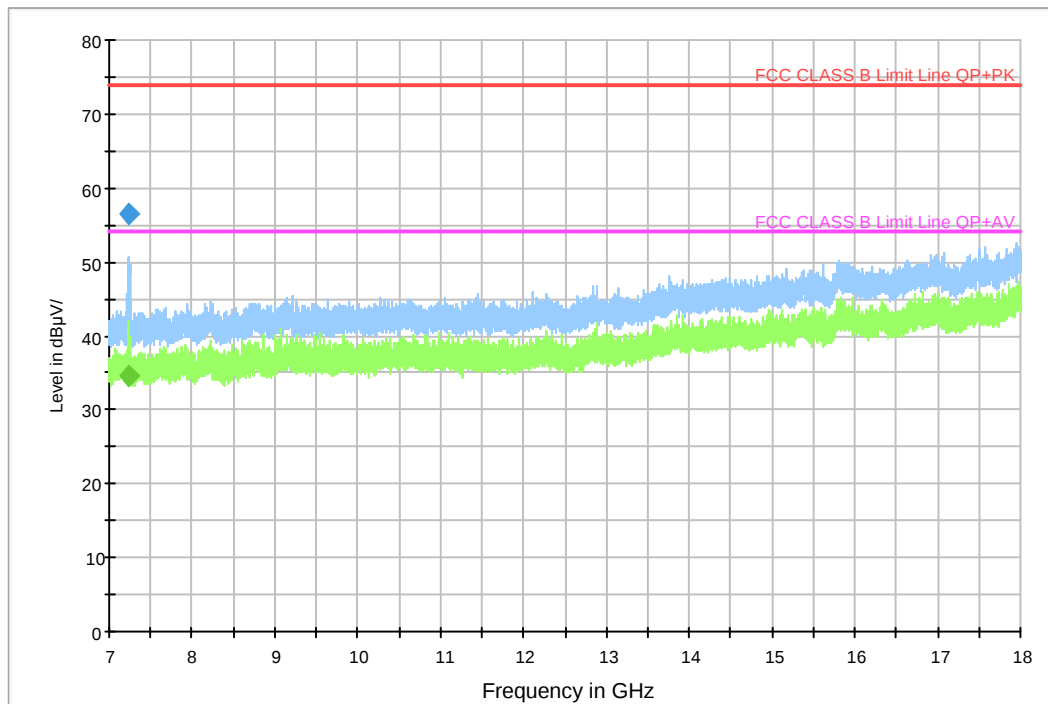


Diagram 1-30 2.4G N20 2412 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.N20-2437MHz					
Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	Comment
1200.006000	43.2	H	30.8	74.0	PK	Diagram 1-31
4878.667334	49.8	H	24.2	74.0	PK	
1199.871000	36.8	H	17.2	54.0	AV	
1679.951667	41.8	V	32.2	74.0	PK	Diagram 1-33
4875.204667	49.1	V	24.9	74.0	PK	
1679.944667	35.6	V	18.4	54.0	AV	

Diagram 1-31 2.4G N20 2437 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

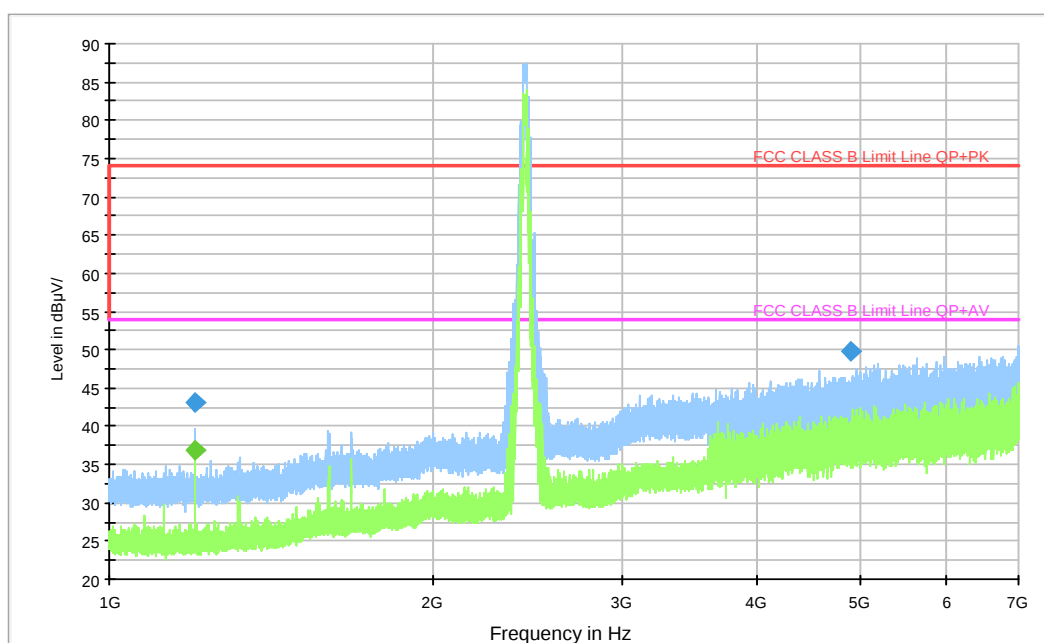


Diagram 1-32 2.4G N20 2437 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

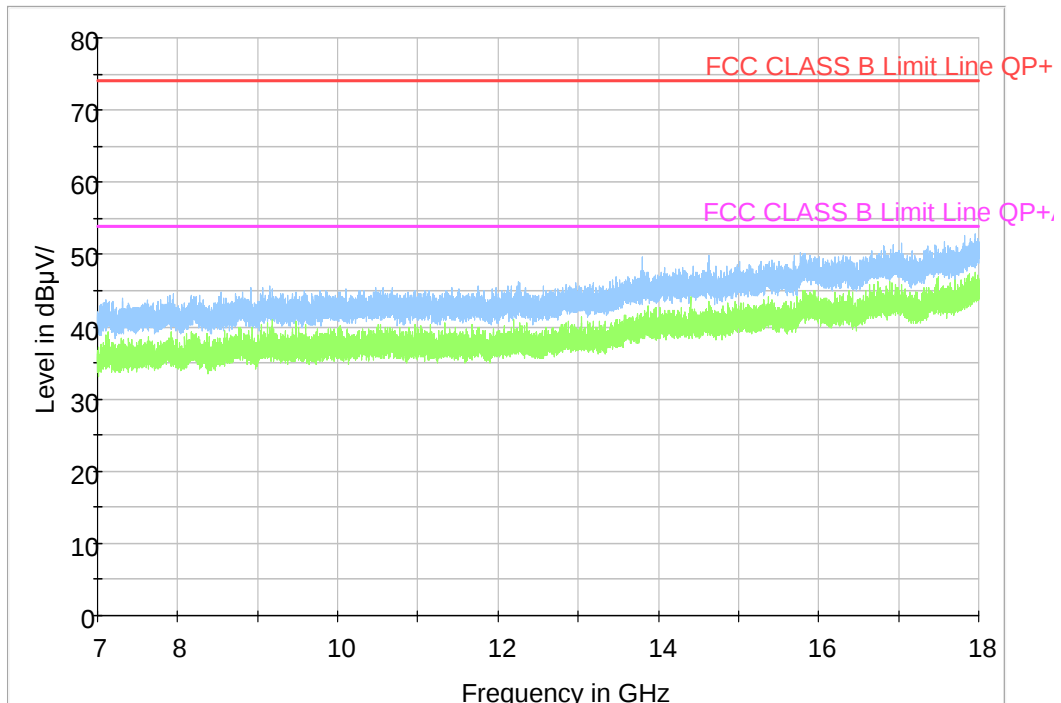


Diagram 1-33 2.4G N20 2437 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

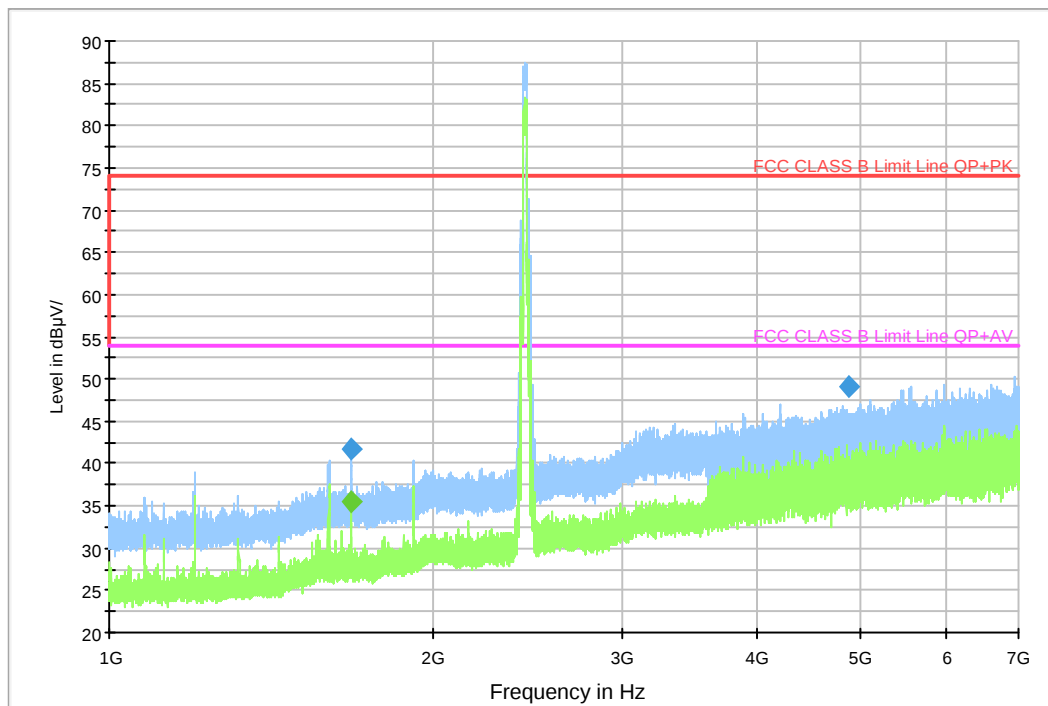
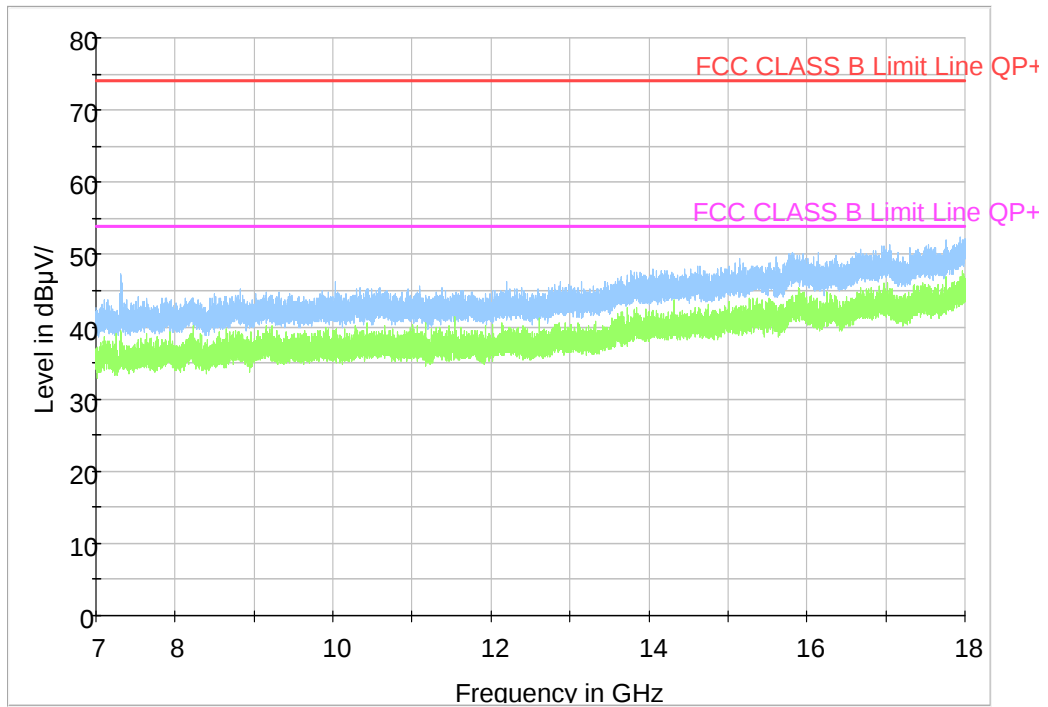


Diagram 1-34 2.4G N20 2437 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.N20-2462MHz					
Frequency (MHz)	Reading (dB μ V/m)	Polarization	Margin (dB)	Limit (dB μ V/m)	Detector (PK/AV)	Comment
4840.667333	48.4	H	25.6	74.0	PK	Diagram 1-35
4834.077667	35.7	H	18.3	54.0	AV	
1171.227000	34.6	V	39.4	74.0	PK	Diagram 1-37
4924.902333	48.5	V	25.5	74.0	PK	
4926.169333	35.8	V	18.2	54.0	PK	

Diagram 1-35 2.4G N20 2462 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

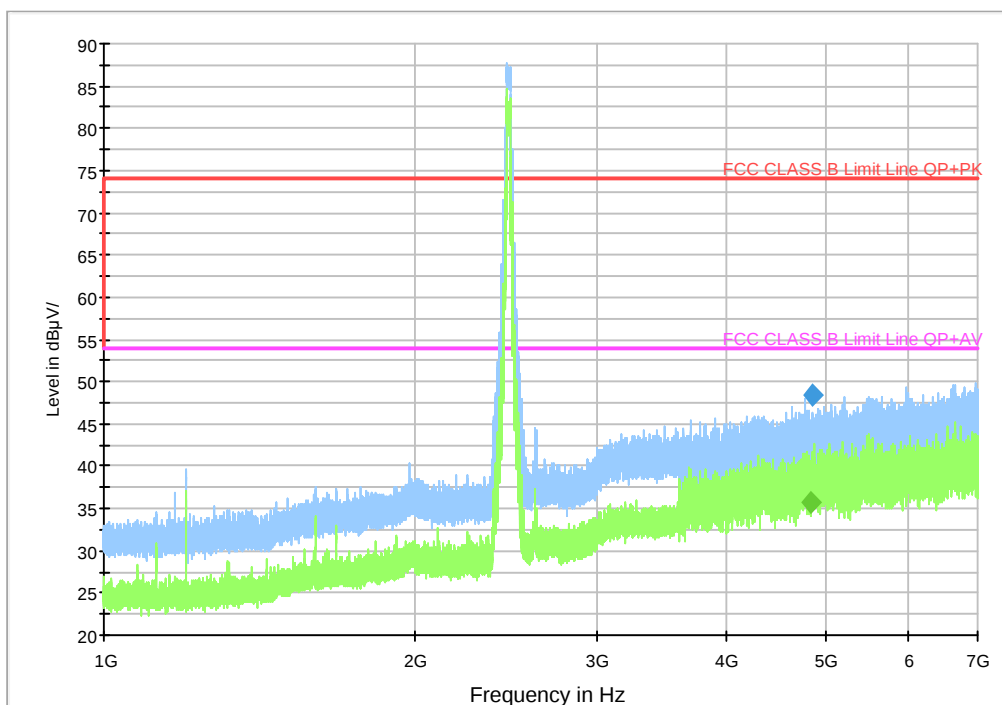


Diagram 1-36 2.4G N20 2462 HOR 7G-18G

FCC CLASS B HF7.0_7G-18G_HOR

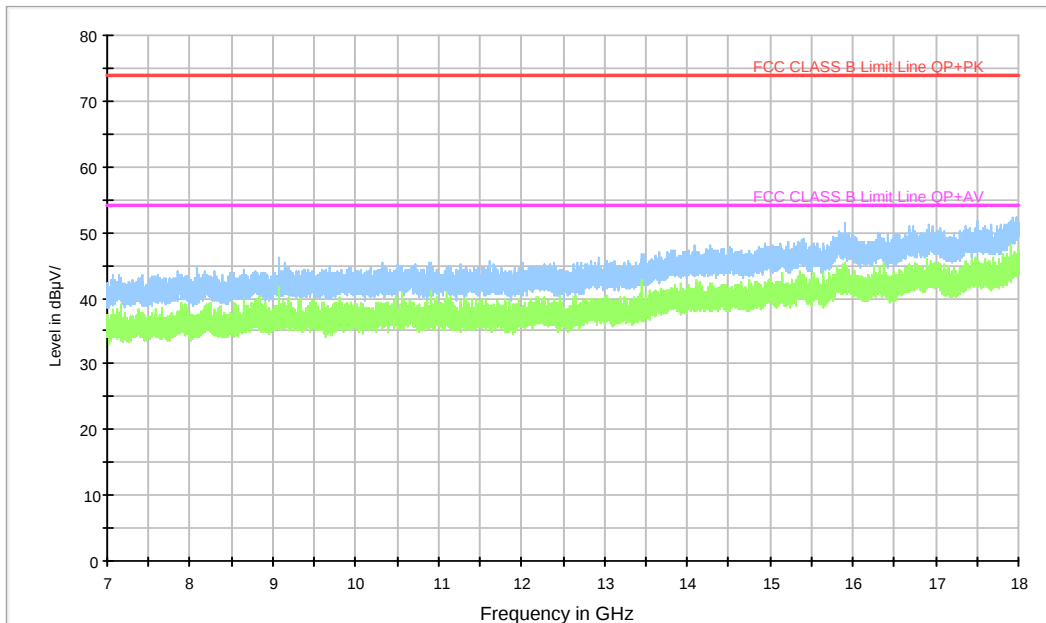


Diagram 1-37 2.4G N20 2462 VER 1G-7G

FCC CLASS B HF3.0_1G-7G_VER

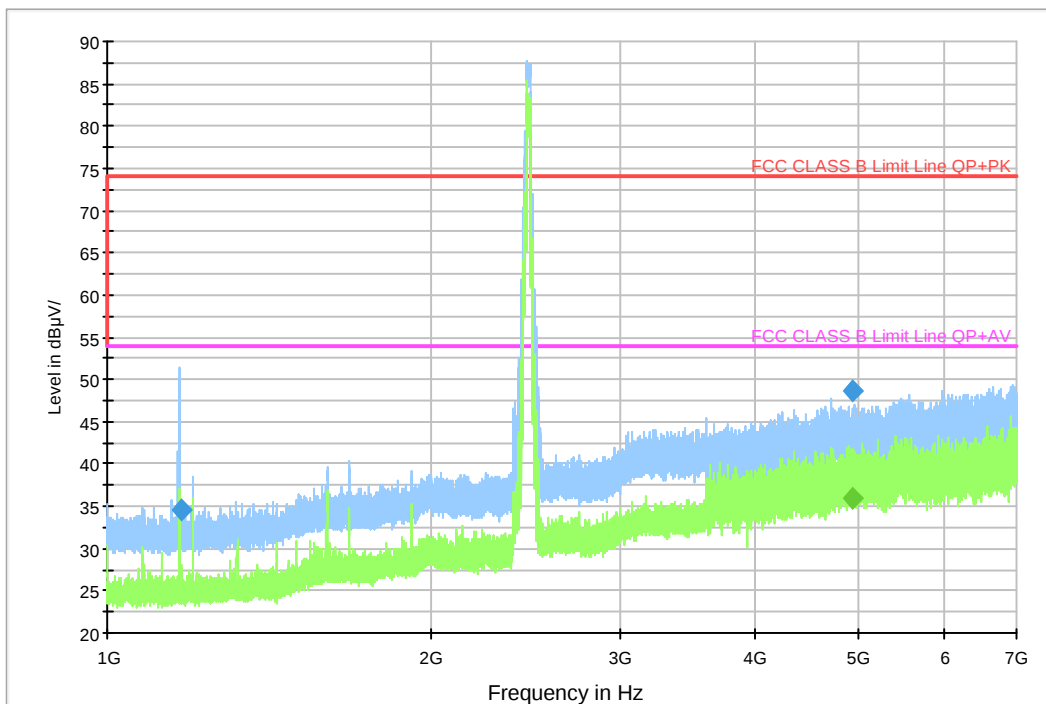
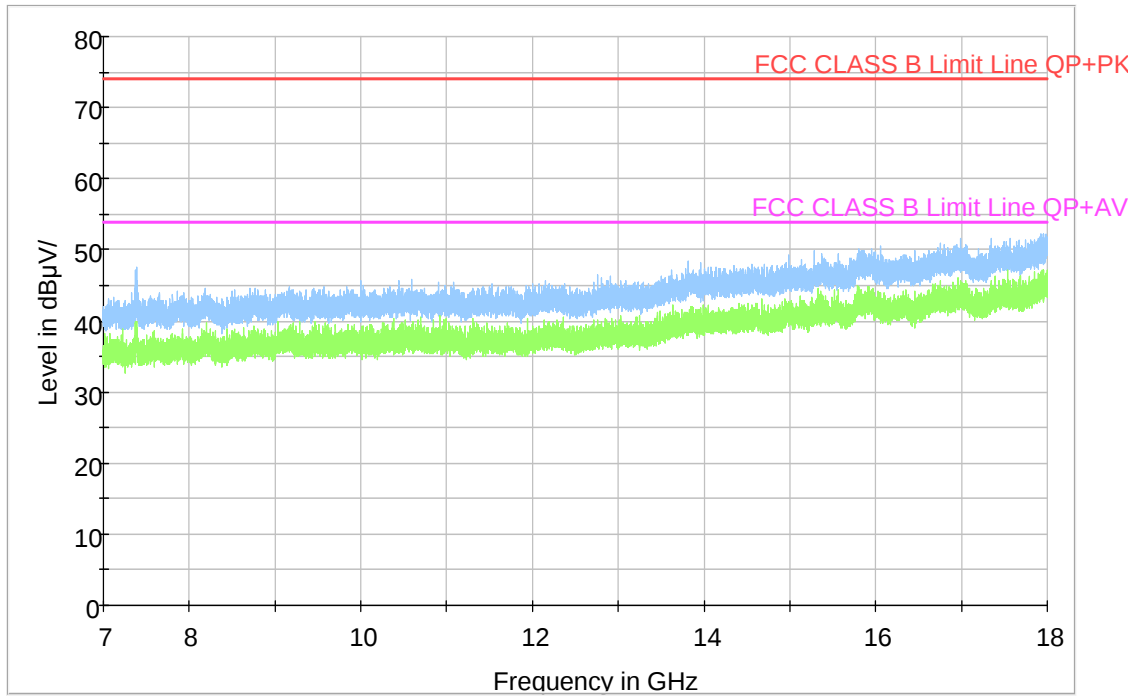


Diagram 1-38 2.4G N20 2462 VER 7G-18G

FCC CLASS B HF7.0_7G-18G_VER



Test Mode	802.11.N40-2412MHz					
Frequency (MHz)	Reading (dBμV/m)	Polarization	Margin (dB)	Limit (dBμV/m)	Detector (PK/AV)	Comment
4834.085000	48.4	H	25.6	74.0	PK	Diagram 1-39
4826.458000	35.4	H	18.6	54.0	AV	
7258.847333	54.1	H	19.9	74.0	PK	Diagram 1-40
7259.324667	34.9	H	19.1	54.0	AV	
4829.419000	48.8	V	25.2	74.0	PK	Diagram 1-41
4818.480333	35.4	V	18.6	54.0	AV	
7259.443333	62.3	V	11.7	74.0	PK	Diagram 1-42
7259.228000	40.6	V	13.4	54.0	AV	

Diagram 1-39 2.4G N40 2412 HOR 1G-7G

FCC CLASS B HF3.0_1G-7G_HOR

