

FCC PART 15.247 TEST REPORT

For

Signify (China) Investment Co., Ltd.

Building no.9, Lane 888, Tianlin Road, Minhang District Shanghai, 200233 China

FCC ID: 2AGBW9290030096X

Report Type: Original Report	Product Type: LED lamp
Project Engineer:	Miller Xie
Report Number:	RDG210420053-00B
Report Date:	2021-07-21
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Signify (China) Investment Co., Ltd.
Tested Model	9290030096
Series Model	9290030090, 9290030091, 9290030092, 9290030093, 9290030094, 9290030095, 9290030097, 9290030098, 9290031182, 9290031183
Model Difference	See Declaration letter
Product Type	LED lamp
Power Supply	AC 120V
Maximum Output Power	802.11b:23.90 dBm; 802.11g:22.05 dBm; 802.11 n20:21.87 dBm; 802.11n40:22.03 dBm
RF Function	2.4G Wi-Fi
Operating Band/Frequency	2412~2462 MHz (802.11b/g/n20), 2422~2452 MHz (802.11n40)
Channel Number	11 (802.11b/g/n20), 7(802.11n40)
Channel Separation	5MHz
Modulation Type	OFDM, DSSS
Antenna Type	Monopole antenna
*Maximum Antenna Gain	-4.0 dBi

**Note: The maximum antenna gain is provided by the applicant.*

**All measurement and test data in this report was gathered from production sample serial number: RDG210420053-1(model: 9290030096), RDG210420053-2(model: 9290030090), RDG210420053-3(model: 9290030091), RDG210420053-4(model: 9290030092), RDG210420053-5(model: 9290030093), RDG210420053-6(model: 9290030094), RDG210420053-7(model: 9290030095), RDG210420053-8(model: 9290030097), RDG210420053-9(model: 9290030098) (Assigned by the BACL. The EUT supplied by the applicant was received on 2021-04-20)*

Objective

This report is prepared on behalf of *Signify (China) Investment Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

N/A

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Test channel list is as below:

For 802.11b, 802.11g and 802.11n-HT20 mode, EUT was tested with Channel 1, 6 and 11;

For 802.11n-HT40 mode, EUT was tested with Channel 3, 6 and 9.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

RF test tool: EspRFTTestTool

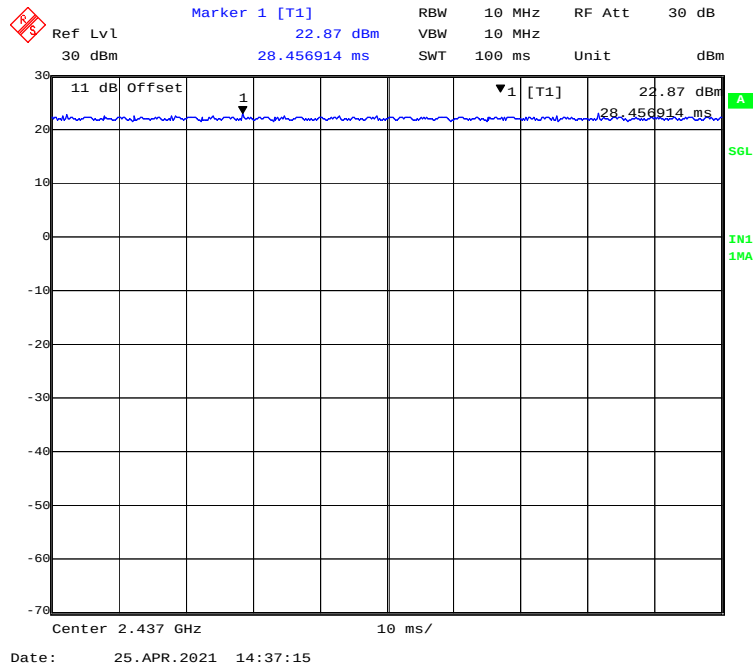
*Pre-scan with all the data rates, and the worst case was performed as below:

Mode	Data Rate	Power Level Setting
802.11b	1 Mbps	4
802.11g	6 Mbps	8
802.11n-HT20	MCS0	10
802.11n-HT40	MCS0	12

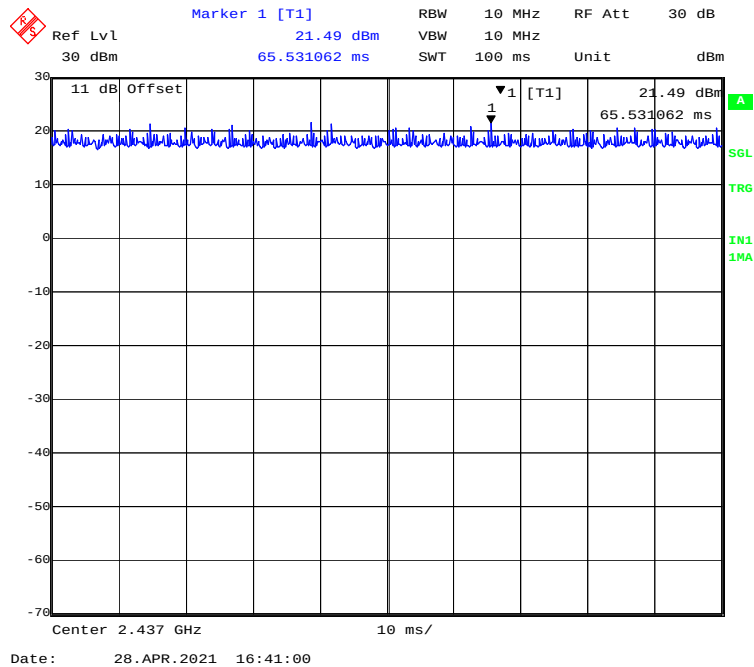
Note: The power level setting was declared by the applicant.

Duty Cycle:

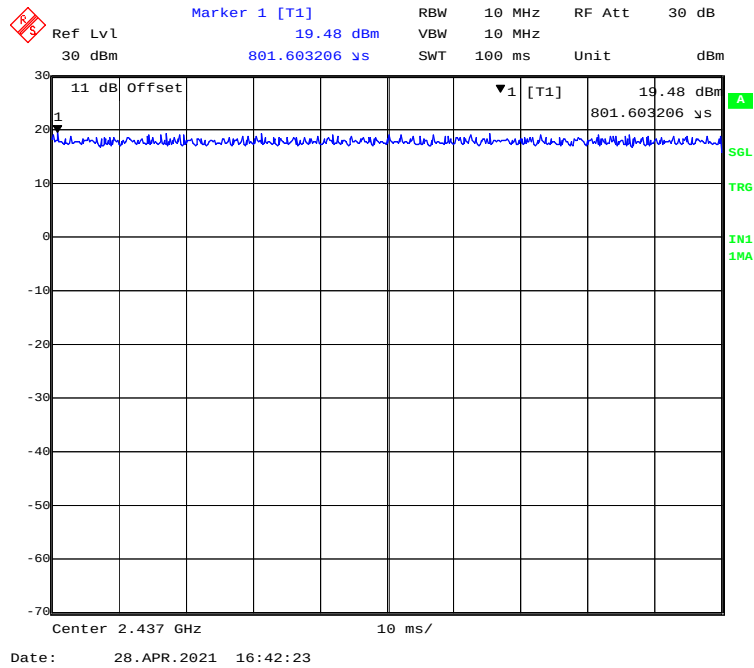
802.11b Mode Middle Channel



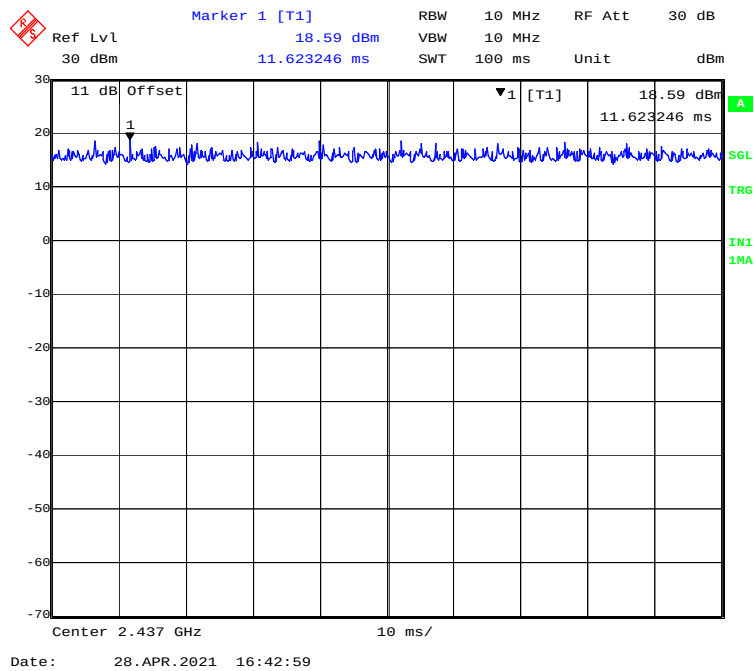
802.11g Mode Middle Channel



802.11n-HT20 Mode Middle Channel



802.11n-HT40 Mode Middle Channel



Mode	Duty Cycle (%)	T(ms)	1/T(kHz)	10log(1/x)
802.11b	100	/	/	0
802.11g	100	/	/	0
802.11n-HT20	100	/	/	0
802.11n-HT40	100	/	/	0

Note: “x” means the Duty Cycle.

Support Equipment List and Details

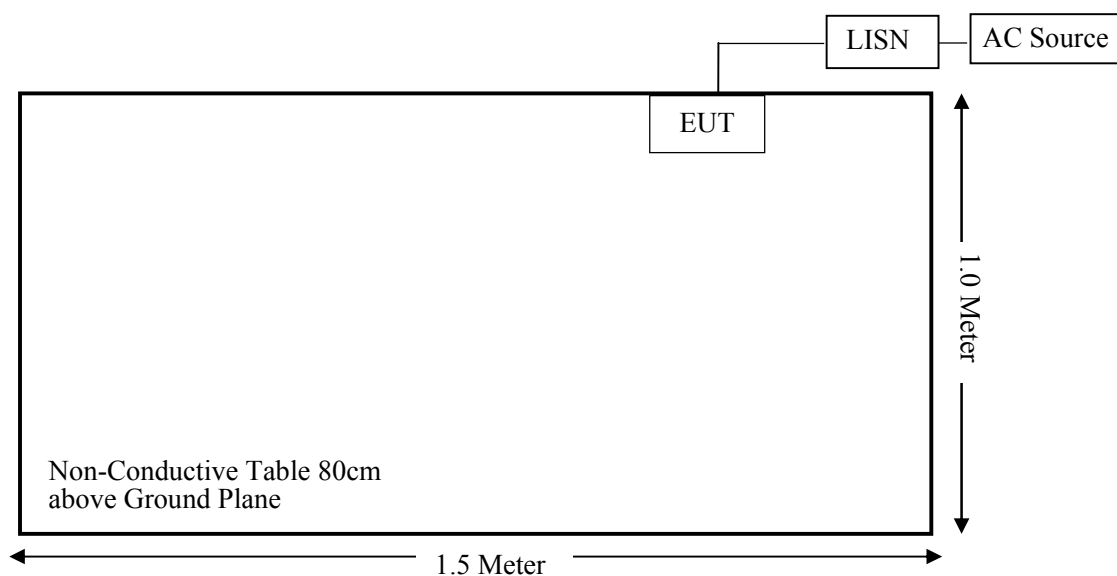
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

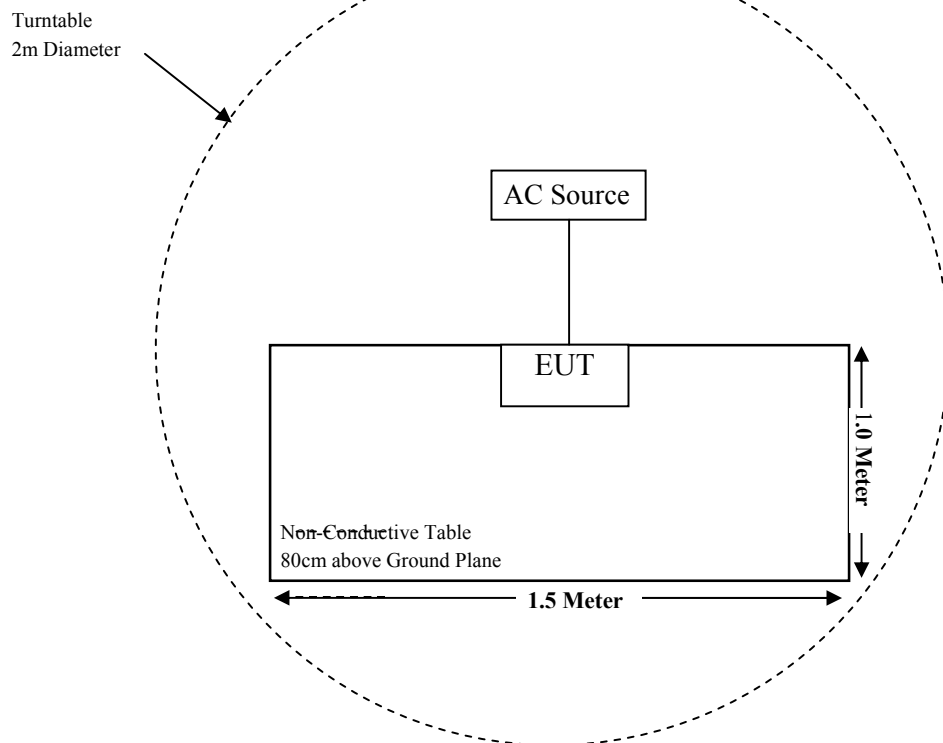
Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	EUT	LISN/AC Source

Block Diagram of Test Setup

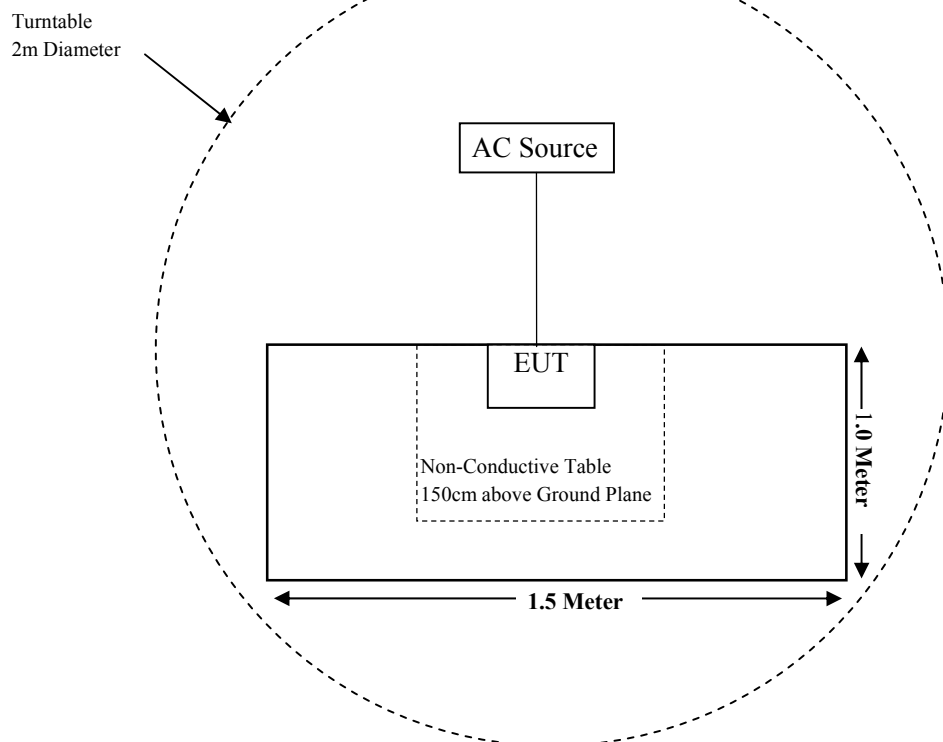
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (I), §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.247(d)	Spurious Emissions at Antenna Port	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-11-27	2021-11-26
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2020-08-05	2023-08-04
Sonoma Instrument	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Receiver	ESU40	100207	2021-03-16	2022-03-15
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2020-07-15	2023-07-14
ETS-LINDGREN	Horn Antenna	3116	00084159	2020-01-17	2023-01-16
A.H.Systems, inc	Amplifier	PAM-0118P	512	2020-08-14	2021-08-13
SELECTOR	Amplifier	EM18G40G	060726	2020-08-22	2021-08-21
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2020-08-05	2021-08-04
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2020-08-15	2021-08-14
RF Conducted Test					
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2020-12-14	2021-12-13
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Signify	RF Cable	Signify C01	N/A	Each Time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-08-05	2021-08-04
Rohde & Schwarz	LISN	ENV216	101115	2020-11-27	2021-11-26
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	0357.8810.54	2020-08-10	2021-08-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11b	2412~2462	-4.0	0.4	24.0	251.19	20	0.0199	1.0
802.11g		-4.0	0.4	22.5	177.83	20	0.0141	1.0
802.11n-HT20		-4.0	0.4	22.0	158.49	20	0.0126	1.0
802.11n-HT40	2422~2452	-4.0	0.4	22.5	177.83	20	0.0141	1.0
BLE(1Mbps)	2402~2480	-4.0	0.4	5.0	3.16	20	0.0003	1.0

Note: 1. The Tune-up output power was declared by the Manufacturer.

2. Wi-Fi and BLE can't transmit simultaneously.

Result: The device meets MPE at distance 20cm.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine Compliance with 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.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR 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 that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has a Monopole antenna for Wi-Fi, and the antenna gain is -4.0 dBi, the antenna is permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

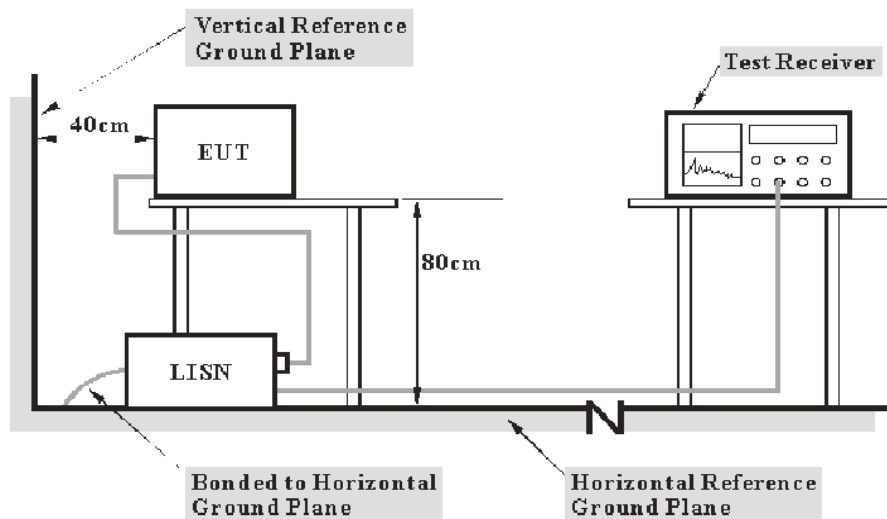
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

ANSI C63.10-2013 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

Temperature:	23.2~24.2 °C
Relative Humidity:	50~51 %
ATM Pressure:	101.3~101.5 kPa

The testing was performed by Miller Xie from 2021-04-26 to 2021-07-19.

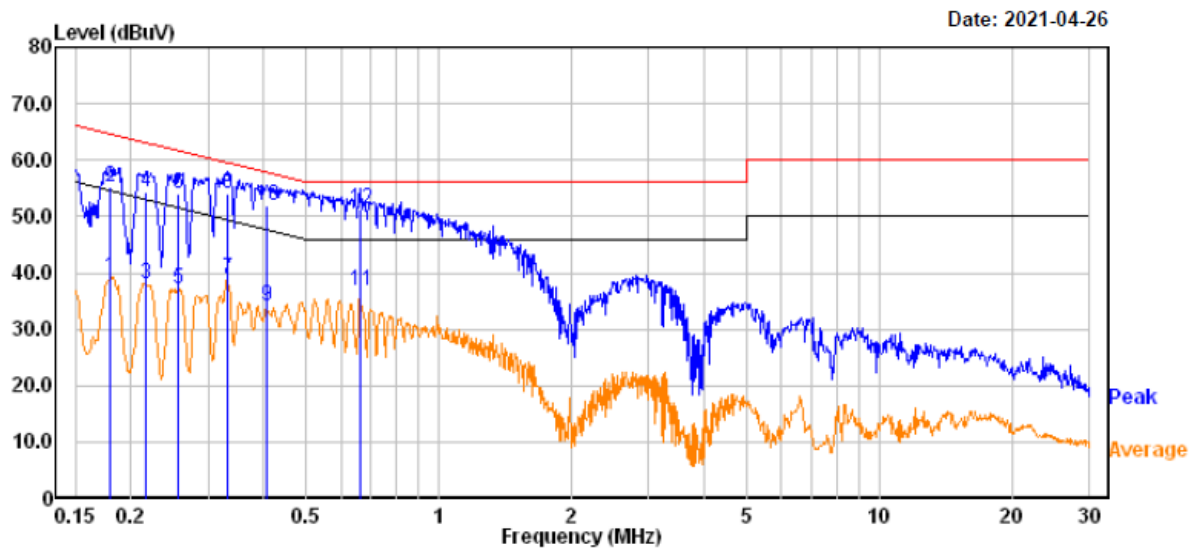
Test Result: Compliant.

For Wi-Fi Mode:

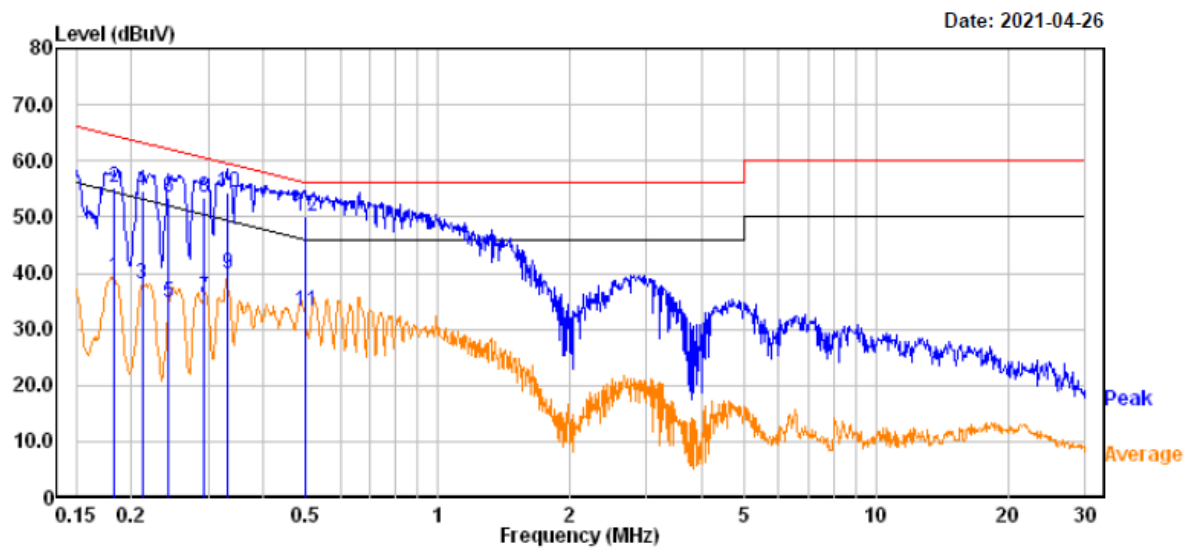
EUT operation mode: Transmitting in 802.11b mode middle channel (worst case)

Tested Model: 9290030096

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.179	19.50	19.83	39.33	54.51	-15.18	Average
2	0.179	35.30	19.83	55.13	64.51	-9.38	QP
3	0.216	18.30	19.82	38.12	52.98	-14.86	Average
4	0.216	34.50	19.82	54.32	62.98	-8.66	QP
5	0.256	17.20	19.82	37.02	51.57	-14.55	Average
6	0.256	34.20	19.82	54.02	61.57	-7.55	QP
7	0.333	19.19	19.82	39.01	49.38	-10.37	Average
8	0.333	34.09	19.82	53.91	59.38	-5.47	QP
9	0.408	14.50	19.74	34.24	47.68	-13.44	Average
10	0.408	32.10	19.74	51.84	57.68	-5.84	QP
11	0.662	17.00	19.75	36.75	46.00	-9.25	Average
12	0.662	31.50	19.75	51.25	56.00	-4.75	QP

AC 120V/60 Hz, Neutral

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.183	19.40	19.83	39.23	54.34	-15.11	Average
2	0.183	35.30	19.83	55.13	64.34	-9.21	QP
3	0.212	18.20	19.82	38.02	53.14	-15.12	Average
4	0.212	34.90	19.82	54.72	63.14	-8.42	QP
5	0.243	14.80	19.82	34.62	51.98	-17.36	Average
6	0.243	33.70	19.82	53.52	61.98	-8.46	QP
7	0.293	15.90	19.83	35.73	50.45	-14.72	Average
8	0.293	33.50	19.83	53.33	60.45	-7.12	QP
9	0.331	19.99	19.82	39.81	49.42	-9.61	Average
10	0.331	34.39	19.82	54.21	59.42	-5.21	QP
11	0.499	13.30	19.76	33.06	46.02	-12.96	Average
12	0.499	30.50	19.76	50.26	56.02	-5.76	QP

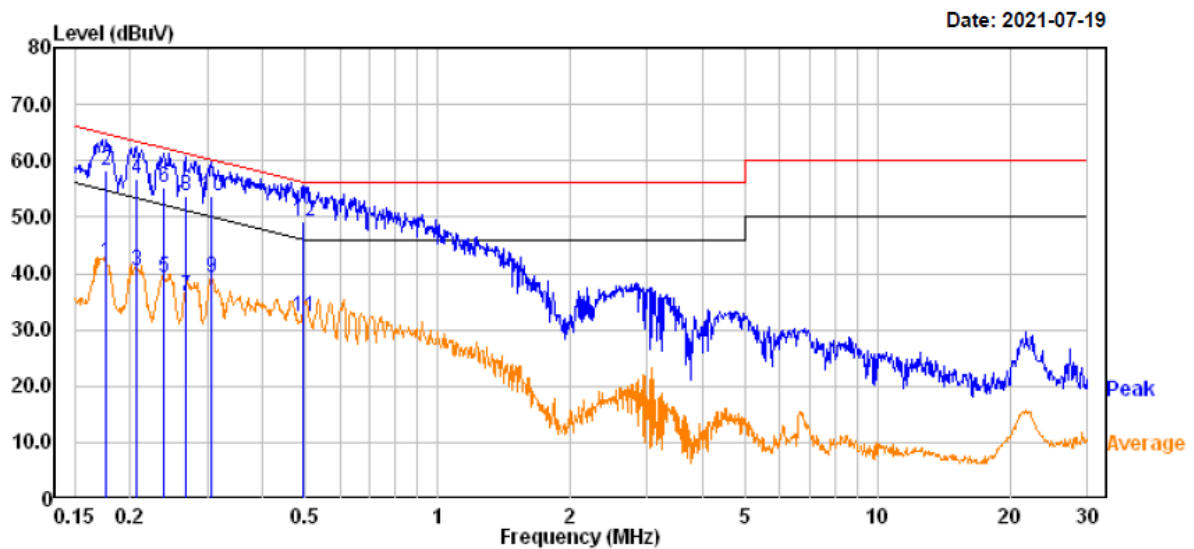
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

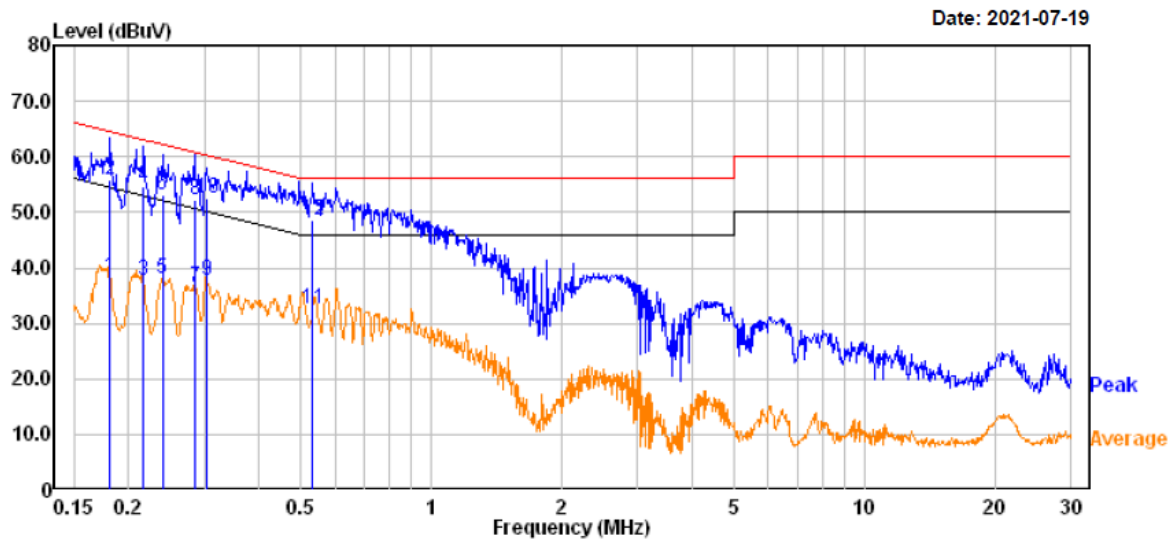
2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Series Model: 9290030090

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.177	22.10	19.83	41.93	54.63	-12.70	Average
2	0.177	38.30	19.83	58.13	64.63	-6.50	QP
3	0.206	20.60	19.82	40.42	53.35	-12.93	Average
4	0.206	36.80	19.82	56.62	63.35	-6.73	QP
5	0.238	19.40	19.82	39.22	52.15	-12.93	Average
6	0.238	35.40	19.82	55.22	62.15	-6.93	QP
7	0.267	16.10	19.82	35.92	51.20	-15.28	Average
8	0.267	33.80	19.82	53.62	61.20	-7.58	QP
9	0.306	19.49	19.83	39.32	50.08	-10.76	Average
10	0.306	33.89	19.83	53.72	60.08	-6.36	QP
11	0.494	12.40	19.76	32.16	46.11	-13.95	Average
12	0.494	29.40	19.76	49.16	56.11	-6.95	QP

AC 120V/60 Hz, Neutral

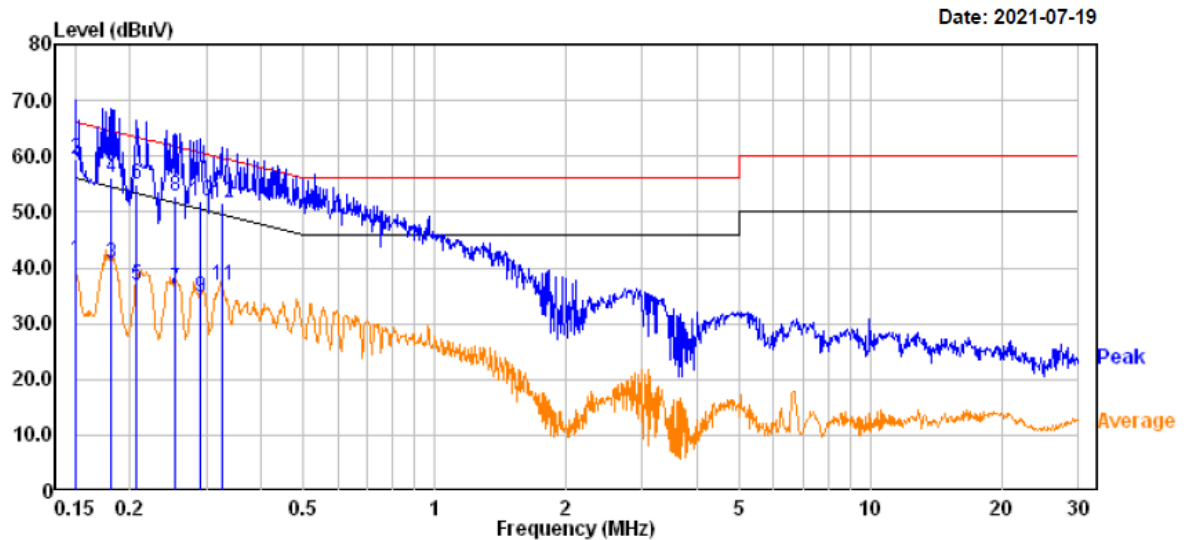
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.181	18.60	19.83	38.43	54.43	-16.00	Average
2	0.181	35.90	19.83	55.73	64.43	-8.70	QP
3	0.217	17.90	19.82	37.72	52.94	-15.22	Average
4	0.217	34.90	19.82	54.72	62.94	-8.22	QP
5	0.240	18.10	19.82	37.92	52.11	-14.19	Average
6	0.240	33.30	19.82	53.12	62.11	-8.99	QP
7	0.284	16.80	19.82	36.62	50.70	-14.08	Average
8	0.284	32.50	19.82	52.32	60.70	-8.38	QP
9	0.303	17.89	19.83	37.72	50.16	-12.44	Average
10	0.303	32.59	19.83	52.42	60.16	-7.74	QP
11	0.532	12.81	19.75	32.56	46.00	-13.44	Average
12	0.532	28.81	19.75	48.56	56.00	-7.44	QP

Note:

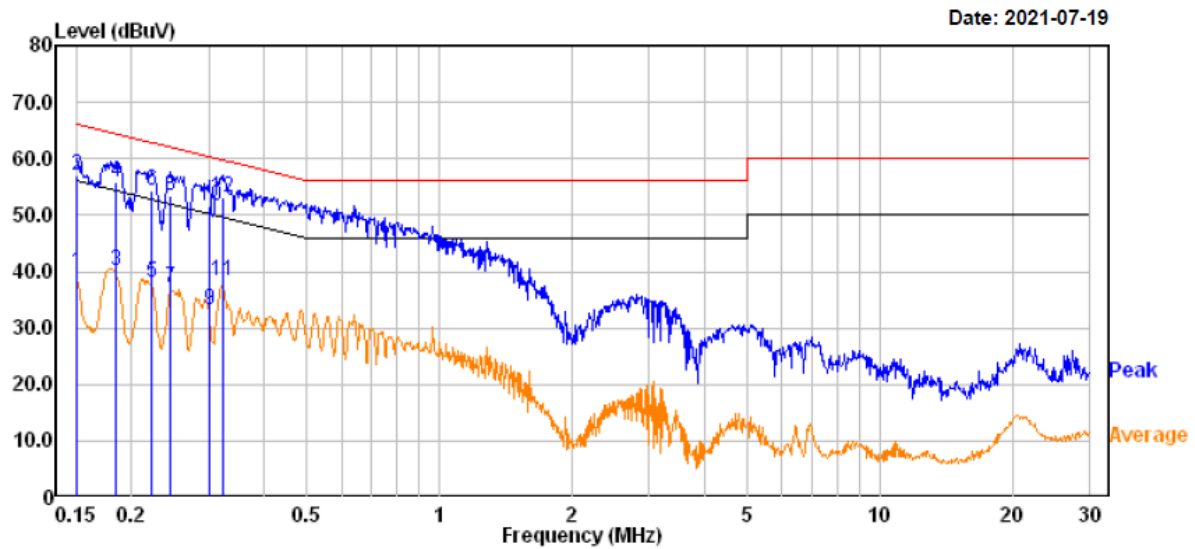
- Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
- Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

Series Model: 9290030091

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	21.40	19.82	41.22	56.00	-14.78	Average
2	0.150	39.60	19.82	59.42	66.00	-6.58	QP
3	0.181	20.90	19.83	40.73	54.43	-13.70	Average
4	0.181	36.20	19.83	56.03	64.43	-8.40	QP
5	0.207	17.10	19.82	36.92	53.31	-16.39	Average
6	0.207	35.20	19.82	55.02	63.31	-8.29	QP
7	0.253	16.50	19.82	36.32	51.65	-15.33	Average
8	0.253	33.10	19.82	52.92	61.65	-8.73	QP
9	0.291	14.90	19.82	34.72	50.49	-15.77	Average
10	0.291	32.10	19.82	51.92	60.49	-8.57	QP
11	0.325	16.90	19.82	36.72	49.58	-12.86	Average
12	0.325	31.90	19.82	51.72	59.58	-7.86	QP

AC 120V/60 Hz, Neutral

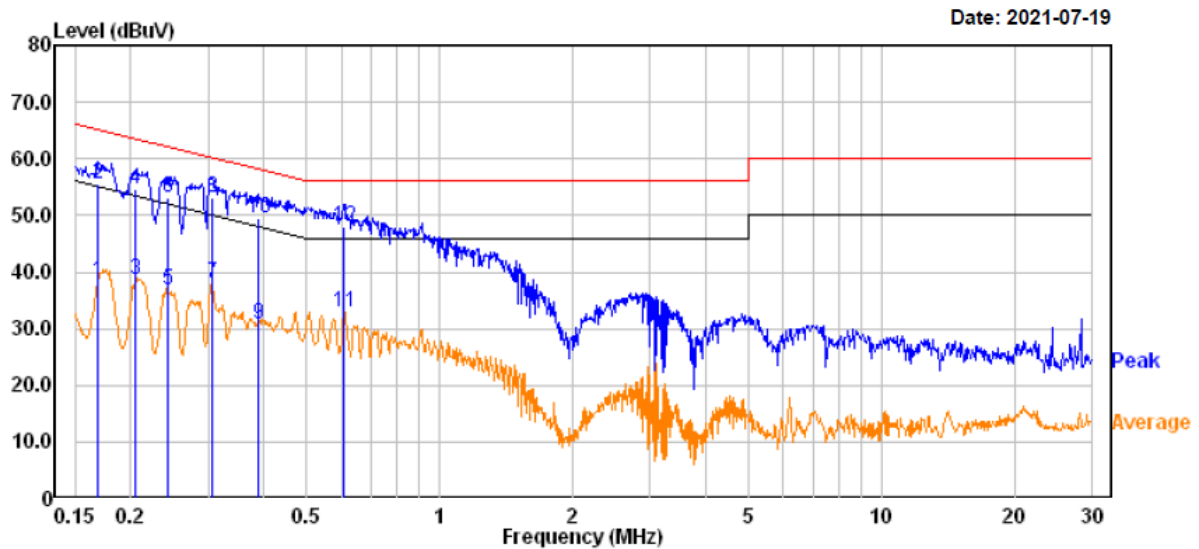
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	20.00	19.82	39.82	56.00	-16.18	Average
2	0.150	37.20	19.82	57.02	66.00	-8.98	QP
3	0.184	20.40	19.83	40.23	54.30	-14.07	Average
4	0.184	36.00	19.83	55.83	64.30	-8.47	QP
5	0.222	18.30	19.82	38.12	52.73	-14.61	Average
6	0.222	34.60	19.82	54.42	62.73	-8.31	QP
7	0.246	17.20	19.82	37.02	51.90	-14.88	Average
8	0.246	33.50	19.82	53.32	61.90	-8.58	QP
9	0.300	13.50	19.83	33.33	50.25	-16.92	Average
10	0.300	31.90	19.83	51.73	60.25	-8.52	QP
11	0.322	18.40	19.82	38.22	49.67	-11.45	Average
12	0.322	33.20	19.82	53.02	59.67	-6.65	QP

Note:

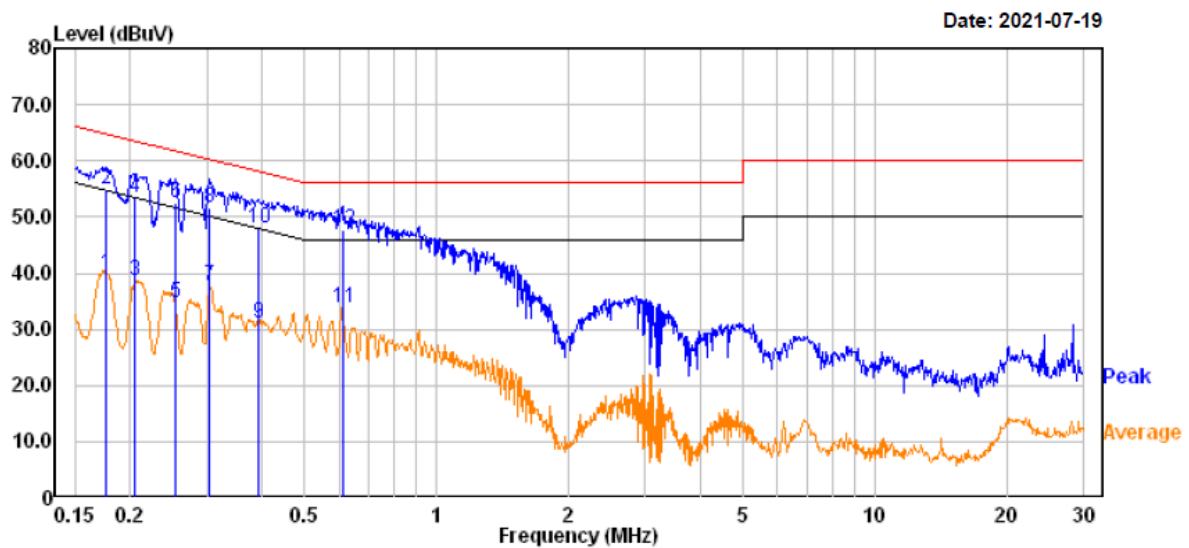
- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
 2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Series Model: 9290030092

AC 120V/60 Hz, Line



		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.168	18.60	19.83	38.43	55.05	-16.62	Average
2	0.168	35.70	19.83	55.53	65.05	-9.52	QP
3	0.204	18.80	19.82	38.62	53.43	-14.81	Average
4	0.204	34.90	19.82	54.72	63.43	-8.71	QP
5	0.243	16.90	19.82	36.72	51.98	-15.26	Average
6	0.243	33.40	19.82	53.22	61.98	-8.76	QP
7	0.306	18.19	19.83	38.02	50.08	-12.06	Average
8	0.306	33.19	19.83	53.02	60.08	-7.06	QP
9	0.389	11.09	19.76	30.85	48.09	-17.24	Average
10	0.389	29.89	19.76	49.65	58.09	-8.44	QP
11	0.606	13.10	19.75	32.85	46.00	-13.15	Average
12	0.606	28.40	19.75	48.15	56.00	-7.85	QP

AC 120V/60 Hz, Neutral

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.177	20.07	19.83	39.90	54.63	-14.73	Average
2	0.177	35.00	19.83	54.83	64.63	-9.80	QP
3	0.204	18.86	19.82	38.68	53.43	-14.75	Average
4	0.204	33.70	19.82	53.52	63.43	-9.91	QP
5	0.254	14.96	19.82	34.78	51.61	-16.83	Average
6	0.254	32.70	19.82	52.52	61.61	-9.09	QP
7	0.304	17.83	19.83	37.66	50.12	-12.46	Average
8	0.304	31.69	19.83	51.52	60.12	-8.60	QP
9	0.393	11.44	19.75	31.19	48.01	-16.82	Average
10	0.393	28.30	19.75	48.05	58.01	-9.96	QP
11	0.612	14.18	19.75	33.93	46.00	-12.07	Average
12	0.612	28.00	19.75	47.75	56.00	-8.25	QP

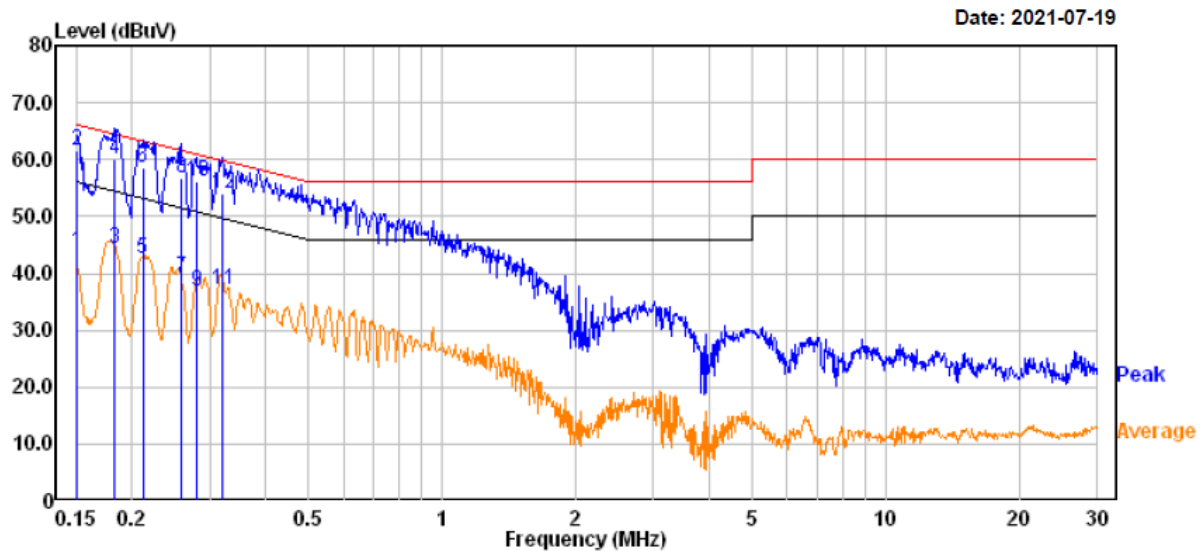
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

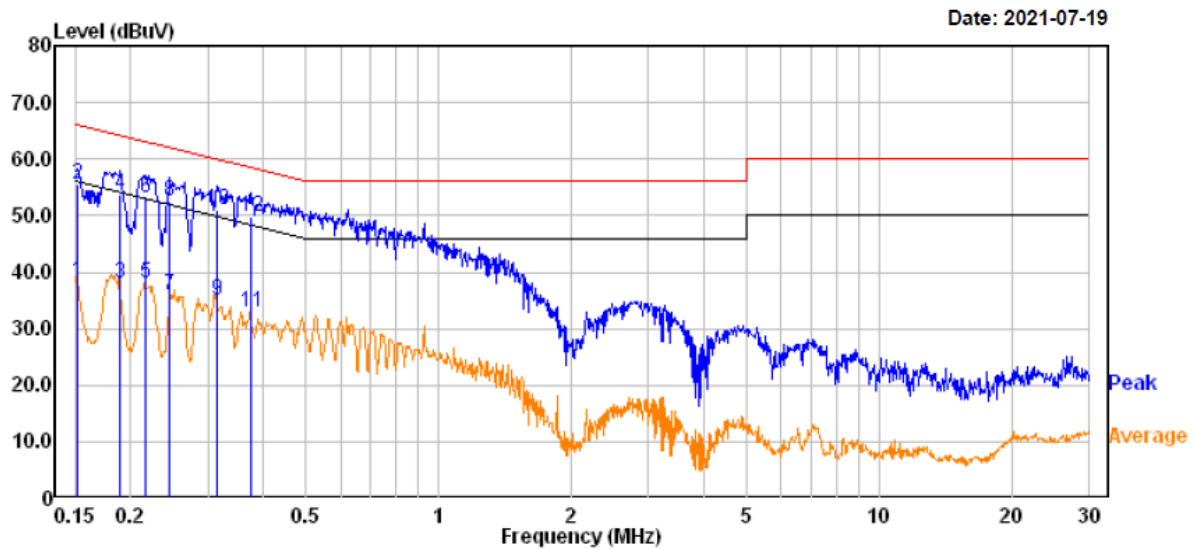
Series Model: 9290030093

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	24.00	19.82	43.82	56.00	-12.18	Average
2	0.150	41.70	19.82	61.52	66.00	-4.48	QP
3	0.182	24.40	19.83	44.23	54.39	-10.16	Average
4	0.182	40.20	19.83	60.03	64.39	-4.36	QP
5	0.212	22.60	19.82	42.42	53.14	-10.72	Average
6	0.212	38.80	19.82	58.62	63.14	-4.52	QP
7	0.258	19.40	19.82	39.22	51.49	-12.27	Average
8	0.258	37.00	19.82	56.82	61.49	-4.67	QP
9	0.280	17.10	19.82	36.92	50.83	-13.91	Average
10	0.280	36.20	19.82	56.02	60.83	-4.81	QP
11	0.320	17.20	19.82	37.02	49.71	-12.69	Average
12	0.320	34.20	19.82	54.02	59.71	-5.69	QP

AC 120V/60 Hz, Neutral



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	18.60	19.82	38.42	55.92	-17.50	Average
2	0.152	35.60	19.82	55.42	65.92	-10.50	QP
3	0.190	18.12	19.82	37.94	54.05	-16.11	Average
4	0.190	34.00	19.82	53.82	64.05	-10.23	QP
5	0.217	18.33	19.82	38.15	52.94	-14.79	Average
6	0.217	33.20	19.82	53.02	62.94	-9.92	QP
7	0.246	15.99	19.82	35.81	51.90	-16.09	Average
8	0.246	32.80	19.82	52.62	61.90	-9.28	QP
9	0.315	15.34	19.82	35.16	49.83	-14.67	Average
10	0.315	31.20	19.82	51.02	59.83	-8.81	QP
11	0.377	13.24	19.77	33.01	48.34	-15.33	Average
12	0.377	30.10	19.77	49.87	58.34	-8.47	QP

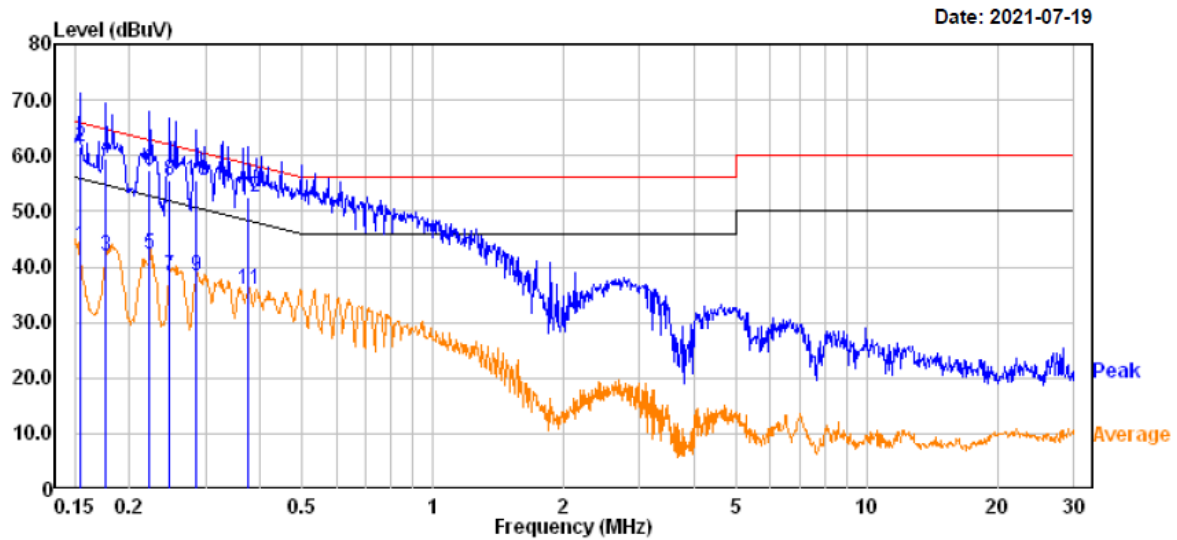
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

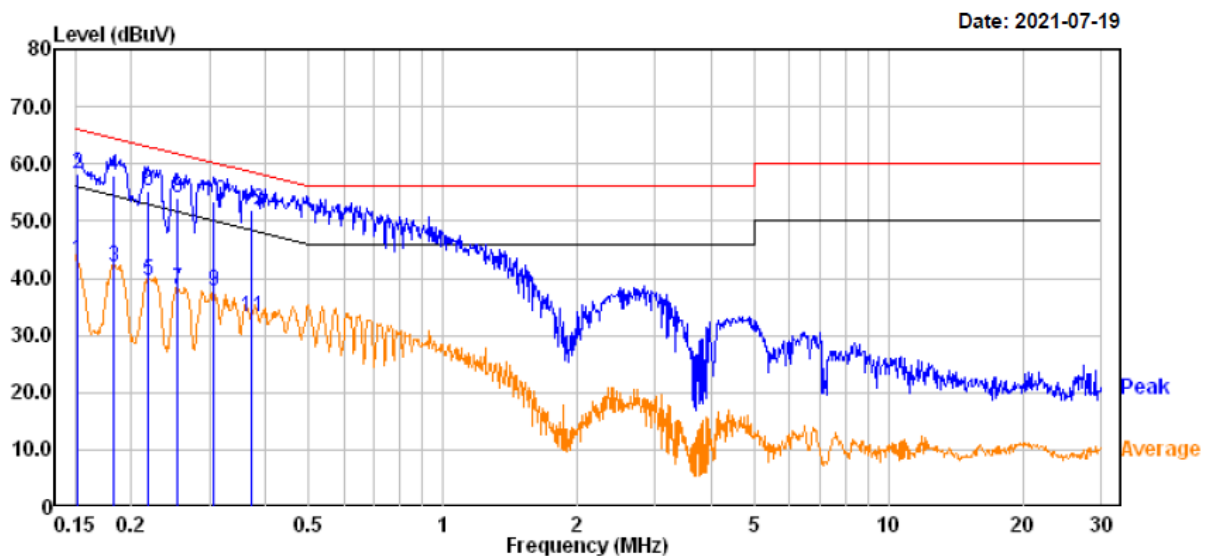
2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Series Model: 9290030094

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.154	23.90	19.82	43.72	55.79	-12.07	Average
2	0.154	41.70	19.82	61.52	65.79	-4.27	QP
3	0.177	22.00	19.83	41.83	54.63	-12.80	Average
4	0.177	39.60	19.83	59.43	64.63	-5.20	QP
5	0.222	22.40	19.82	42.22	52.73	-10.51	Average
6	0.222	37.40	19.82	57.22	62.73	-5.51	QP
7	0.248	18.50	19.82	38.32	51.82	-13.50	Average
8	0.248	35.80	19.82	55.62	61.82	-6.20	QP
9	0.285	18.50	19.82	38.32	50.66	-12.34	Average
10	0.285	35.70	19.82	55.52	60.66	-5.14	QP
11	0.377	16.10	19.77	35.87	48.34	-12.47	Average
12	0.377	32.80	19.77	52.57	58.34	-5.77	QP

AC 120V/60 Hz, Neutral

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.152	23.50	19.82	43.32	55.92	-12.60	Average
2	0.152	38.50	19.82	58.32	65.92	-7.60	QP
3	0.183	22.21	19.83	42.04	54.34	-12.30	Average
4	0.183	38.10	19.83	57.93	64.34	-6.41	QP
5	0.218	19.69	19.82	39.51	52.90	-13.39	Average
6	0.218	35.40	19.82	55.22	62.90	-7.68	QP
7	0.253	18.33	19.82	38.15	51.65	-13.50	Average
8	0.253	34.20	19.82	54.02	61.65	-7.63	QP
9	0.306	17.83	19.83	37.66	50.08	-12.42	Average
10	0.306	33.69	19.83	53.52	60.08	-6.56	QP
11	0.373	13.38	19.78	33.16	48.42	-15.26	Average
12	0.373	32.09	19.78	51.87	58.42	-6.55	QP

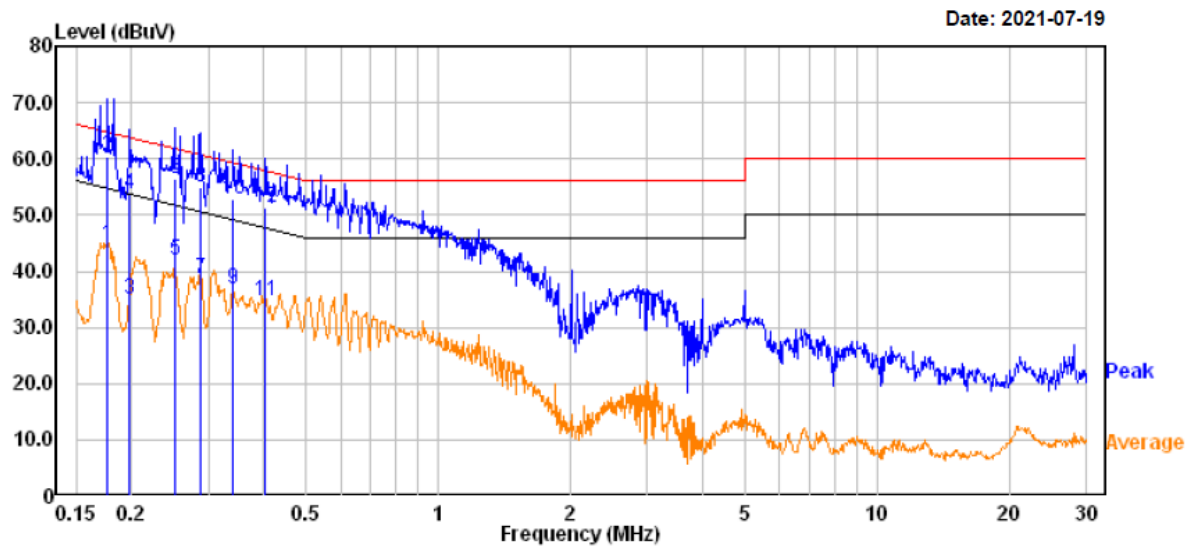
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Series Model: 9290030095

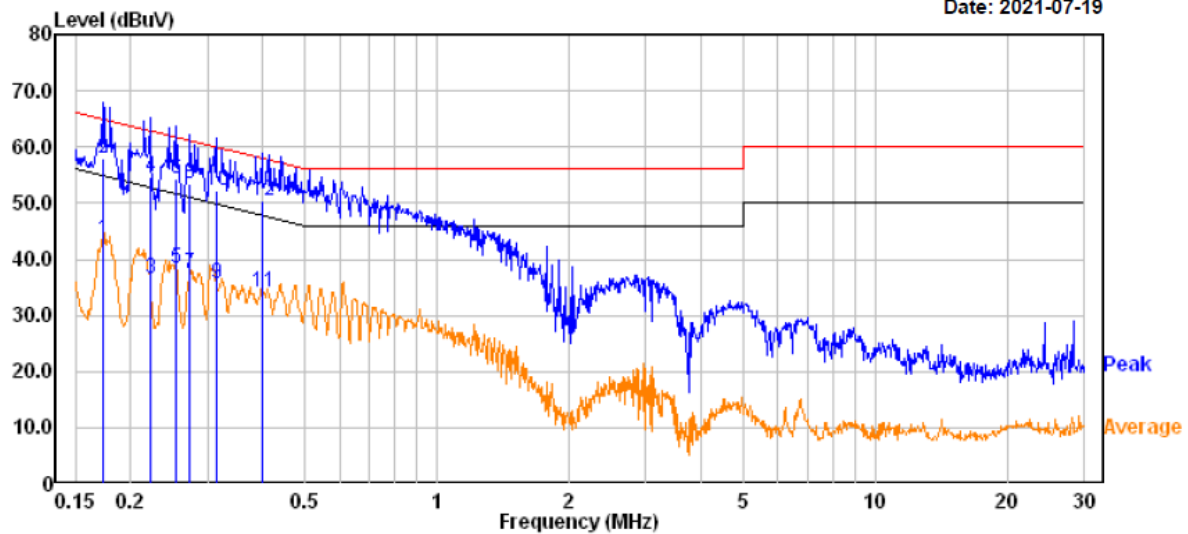
AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.177	25.00	19.83	44.83	54.63	-9.80	Average
2	0.177	40.60	19.83	60.43	64.63	-4.20	QP
3	0.198	15.20	19.82	35.02	53.68	-18.66	Average
4	0.198	34.00	19.82	53.82	63.68	-9.86	QP
5	0.251	22.20	19.82	42.02	51.74	-9.72	Average
6	0.251	36.70	19.82	56.52	61.74	-5.22	QP
7	0.288	18.80	19.82	38.62	50.58	-11.96	Average
8	0.288	35.10	19.82	54.92	60.58	-5.66	QP
9	0.341	16.90	19.81	36.71	49.17	-12.46	Average
10	0.341	33.10	19.81	52.91	59.17	-6.26	QP
11	0.404	15.00	19.74	34.74	47.76	-13.02	Average
12	0.404	31.60	19.74	51.34	57.76	-6.42	QP

AC 120V/60 Hz, Neutral

Date: 2021-07-19



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.172	23.50	19.83	43.33	54.84	-11.51	Average
2	0.172	38.20	19.83	58.03	64.84	-6.81	QP
3	0.221	16.80	19.82	36.62	52.77	-16.15	Average
4	0.221	34.70	19.82	54.52	62.77	-8.25	QP
5	0.254	18.40	19.82	38.22	51.61	-13.39	Average
6	0.254	34.40	19.82	54.22	61.61	-7.39	QP
7	0.273	17.60	19.82	37.42	51.03	-13.61	Average
8	0.273	33.50	19.82	53.32	61.03	-7.71	QP
9	0.314	15.80	19.82	35.62	49.87	-14.25	Average
10	0.314	32.30	19.82	52.12	59.87	-7.75	QP
11	0.398	14.40	19.74	34.14	47.89	-13.75	Average
12	0.398	30.60	19.74	50.34	57.89	-7.55	QP

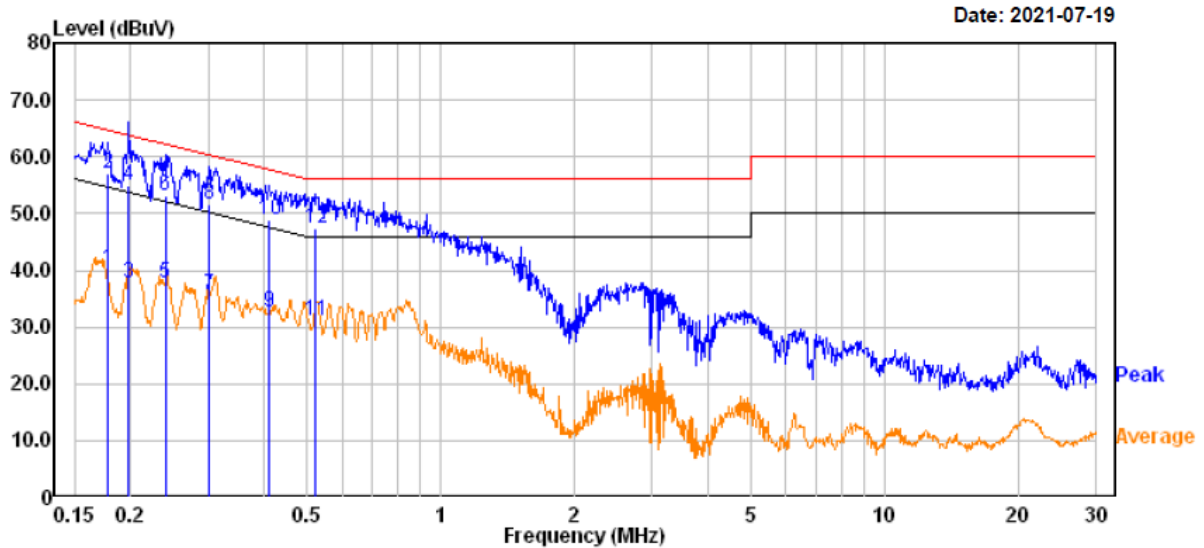
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

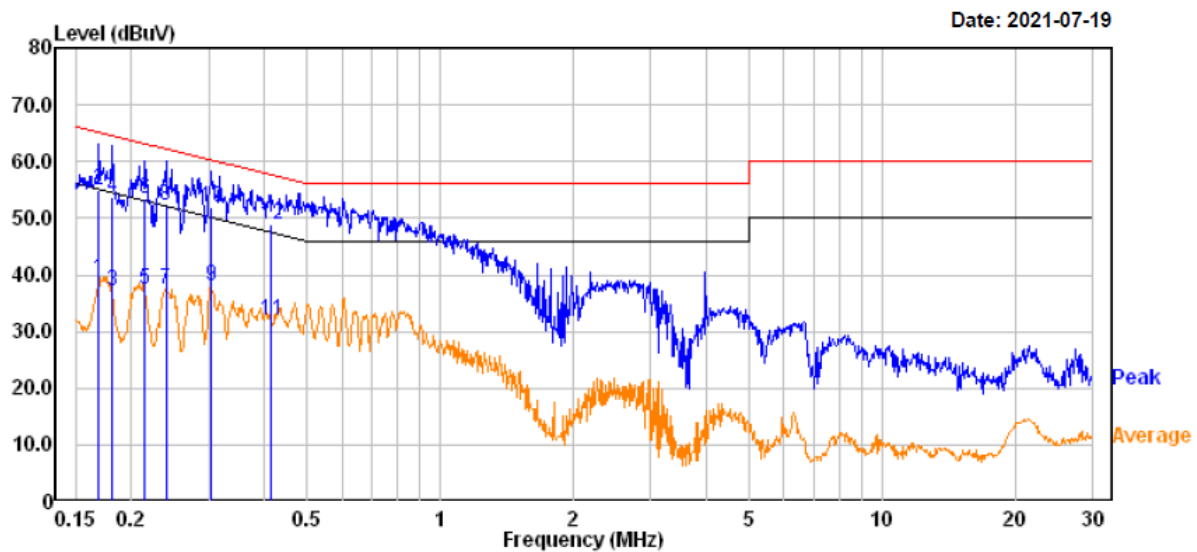
2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

Series Model: 9290030097

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.178	20.30	19.83	40.13	54.59	-14.46	Average
2	0.178	37.20	19.83	57.03	64.59	-7.56	QP
3	0.198	17.80	19.82	37.62	53.68	-16.06	Average
4	0.198	35.00	19.82	54.82	63.68	-8.86	QP
5	0.240	17.90	19.82	37.72	52.11	-14.39	Average
6	0.240	33.40	19.82	53.22	62.11	-8.89	QP
7	0.300	15.90	19.83	35.73	50.25	-14.52	Average
8	0.300	31.90	19.83	51.73	60.25	-8.52	QP
9	0.411	13.00	19.74	32.74	47.64	-14.90	Average
10	0.411	29.30	19.74	49.04	57.64	-8.60	QP
11	0.524	11.31	19.75	31.06	46.00	-14.94	Average
12	0.524	27.71	19.75	47.46	56.00	-8.54	QP

AC 120V/60 Hz, Neutral

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.169	19.40	19.83	39.23	55.01	-15.78	Average
2	0.169	35.10	19.83	54.93	65.01	-10.08	QP
3	0.181	17.40	19.83	37.23	54.43	-17.20	Average
4	0.181	33.80	19.83	53.63	64.43	-10.80	QP
5	0.215	17.70	19.82	37.52	53.02	-15.50	Average
6	0.215	33.50	19.82	53.32	63.02	-9.70	QP
7	0.240	17.50	19.82	37.32	52.11	-14.79	Average
8	0.240	32.50	19.82	52.32	62.11	-9.79	QP
9	0.304	18.09	19.83	37.92	50.12	-12.20	Average
10	0.304	32.09	19.83	51.92	60.12	-8.20	QP
11	0.415	12.40	19.74	32.14	47.55	-15.41	Average
12	0.415	29.10	19.74	48.84	57.55	-8.71	QP

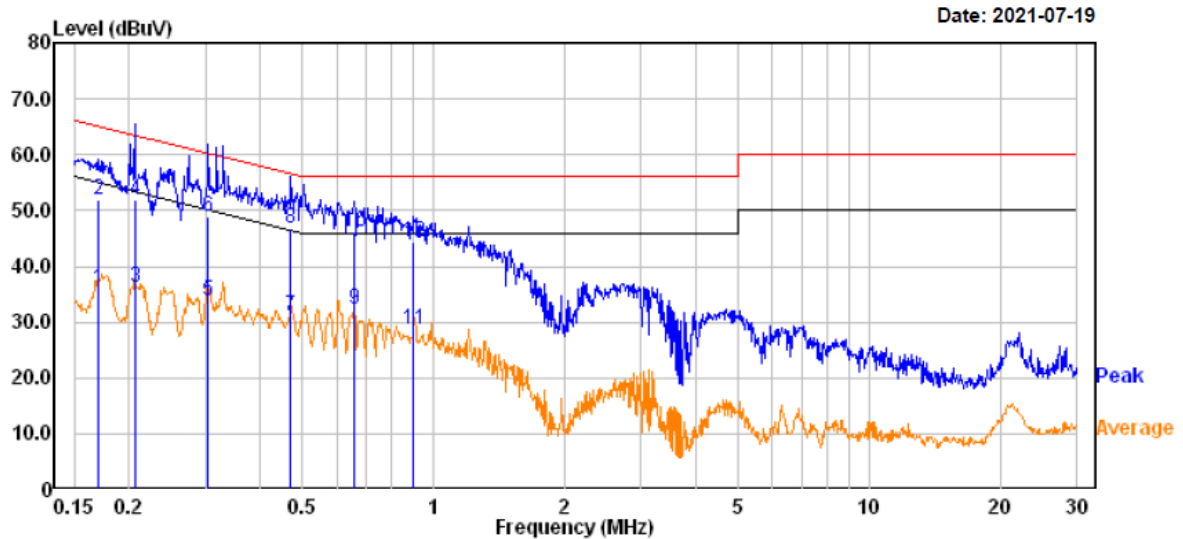
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

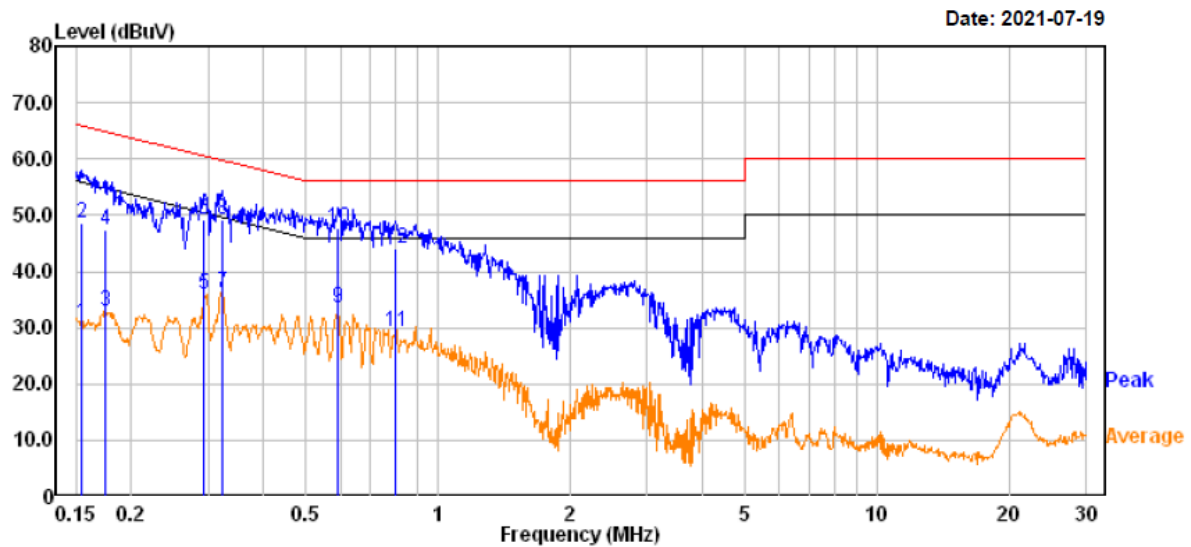
Series Model: 9290030098

AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.170	16.10	19.83	35.93	54.97	-19.04	Average
2	0.170	32.00	19.83	51.83	64.97	-13.14	QP
3	0.206	16.30	19.82	36.12	53.35	-17.23	Average
4	0.206	32.20	19.82	52.02	63.35	-11.33	QP
5	0.304	13.89	19.83	33.72	50.12	-16.40	Average
6	0.304	28.99	19.83	48.82	60.12	-11.30	QP
7	0.470	11.31	19.75	31.06	46.52	-15.46	Average
8	0.470	27.01	19.75	46.76	56.52	-9.76	QP
9	0.656	12.50	19.75	32.25	46.00	-13.75	Average
10	0.656	26.30	19.75	46.05	56.00	-9.95	QP
11	0.902	9.10	19.73	28.83	46.00	-17.17	Average
12	0.902	24.60	19.73	44.33	56.00	-11.67	QP

AC 120V/60 Hz, Neutral



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.154	11.10	19.82	30.92	55.79	-24.87	Average
2	0.154	28.90	19.82	48.72	65.79	-17.07	QP
3	0.175	13.10	19.83	32.93	54.72	-21.79	Average
4	0.175	27.70	19.83	47.53	64.72	-17.19	QP
5	0.294	16.10	19.83	35.93	50.41	-14.48	Average
6	0.294	29.30	19.83	49.13	60.41	-11.28	QP
7	0.322	16.50	19.82	36.32	49.67	-13.35	Average
8	0.322	29.30	19.82	49.12	59.67	-10.55	QP
9	0.594	13.80	19.75	33.55	46.00	-12.45	Average
10	0.594	27.90	19.75	47.65	56.00	-8.35	QP
11	0.801	9.70	19.70	29.40	46.00	-16.60	Average
12	0.801	24.50	19.70	44.20	56.00	-11.80	QP

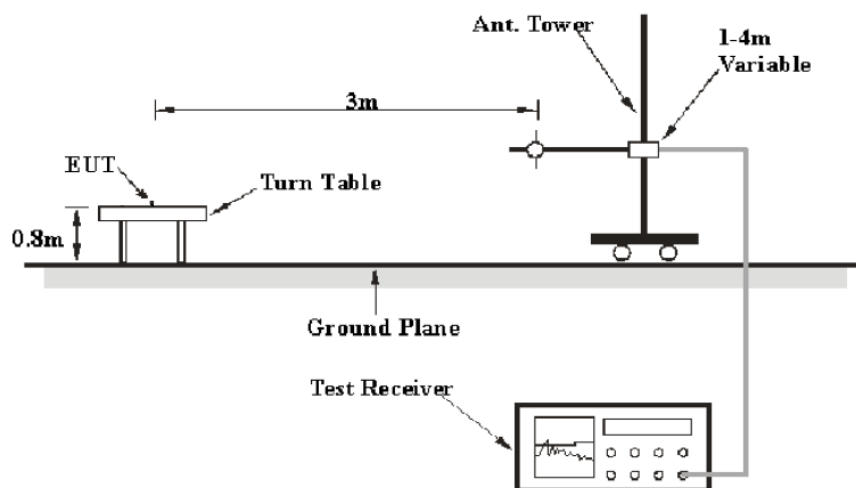
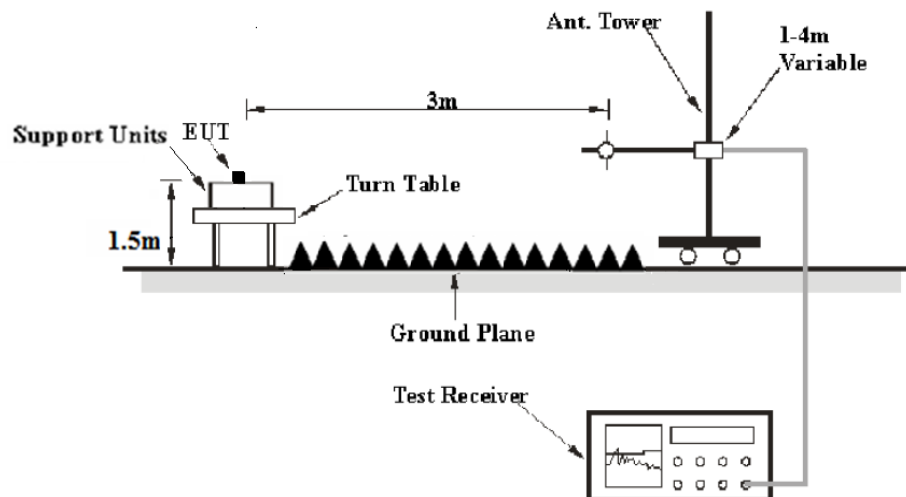
Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

EUT Setup**Below 1 GHz:****Above 1GHz:**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	1 MHz	AVG.

Test Procedure

According to ANSI C63.10-2013 clause 6.5, 6.6 and 6.7.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection mode for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of Compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data**Environmental Conditions**

Temperature:	24.1-24.5 °C
Relative Humidity:	50-52 %
ATM Pressure:	101.6-102.3 kPa

The testing was performed by Miller Xie from 2021-04-23 to 2021-07-20.

Test Result: Compliant.

EUT operation mode: Transmitting

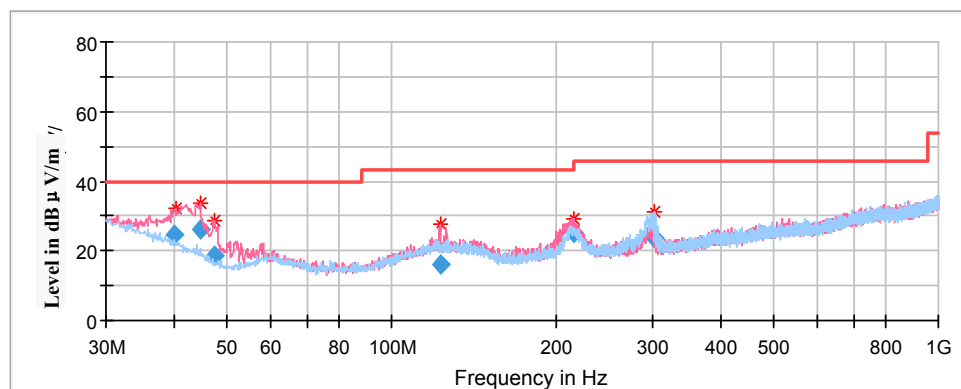
For Wi-Fi Mode:

Spurious Emission Test:

Tested Model:9290030096

30MHz-1GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
40.137500	24.86	200.0	V	188.0	-11.2	40.00	15.14
44.786250	25.99	100.0	V	231.0	-13.0	40.00	14.01
47.569700	18.51	100.0	V	163.0	-16.3	40.00	21.49
122.460750	16.00	100.0	V	309.0	-10.9	43.50	27.50
214.768000	25.32	100.0	V	291.0	-12.0	43.50	18.18
301.614800	23.77	100.0	H	108.0	-10.8	46.00	22.23

1GHz-18GHz:**802.11b Mode:**

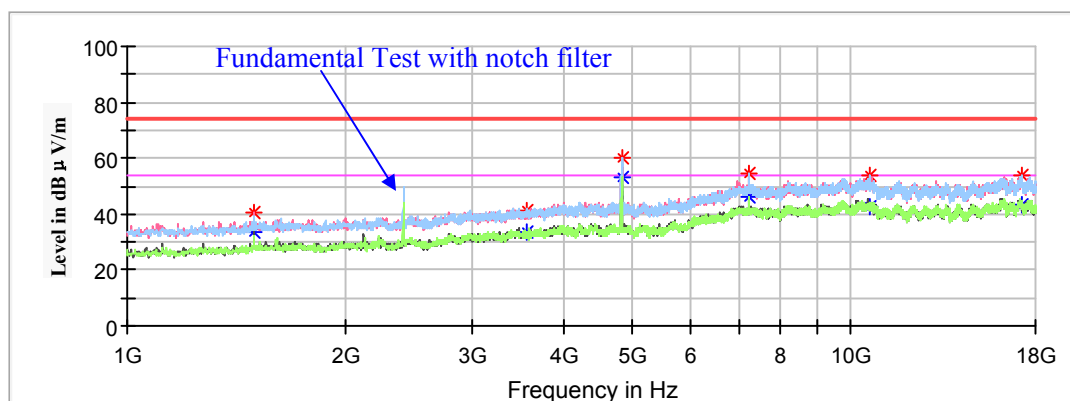
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

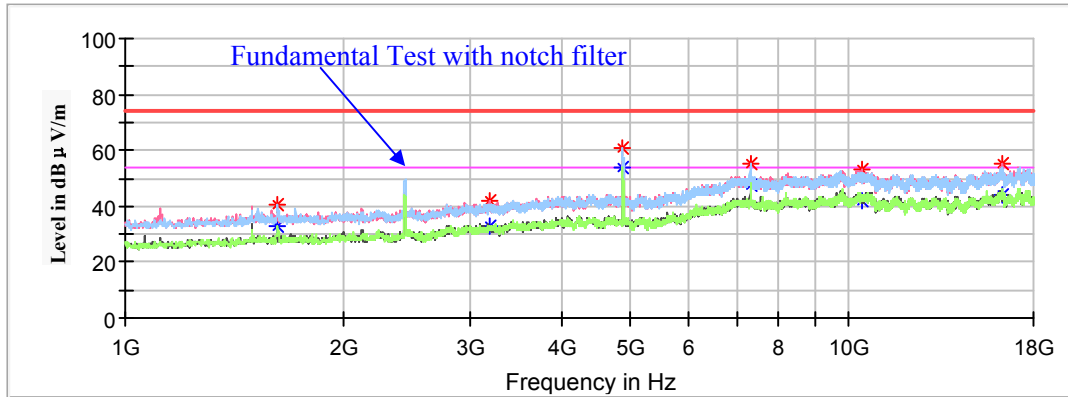
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1494.700000	---	33.41	150.0	V	305.0	-9.4	54.00	20.59
1494.700000	40.40	---	150.0	V	305.0	-9.4	74.00	33.60
3556.800000	---	33.39	200.0	V	78.0	-1.5	54.00	20.61
3556.800000	41.54	---	200.0	V	78.0	-1.5	74.00	32.46
4824.000000	---	52.81	150.0	H	67.0	0.6	54.00	1.19
4824.000000	59.89	---	150.0	H	67.0	0.6	74.00	14.11
7236.000000	54.46	---	200.0	H	273.0	5.3	74.00	19.54
7236.000000	---	46.09	200.0	H	273.0	5.3	54.00	7.91
10623.700000	---	42.62	200.0	H	336.0	12.6	54.00	11.38
10623.700000	53.52	---	200.0	H	336.0	12.6	74.00	20.48
17212.900000	---	43.61	200.0	V	4.0	11.5	54.00	10.39
17212.900000	54.14	---	200.0	V	4.0	11.5	74.00	19.86

Middle Channel: 2437MHz

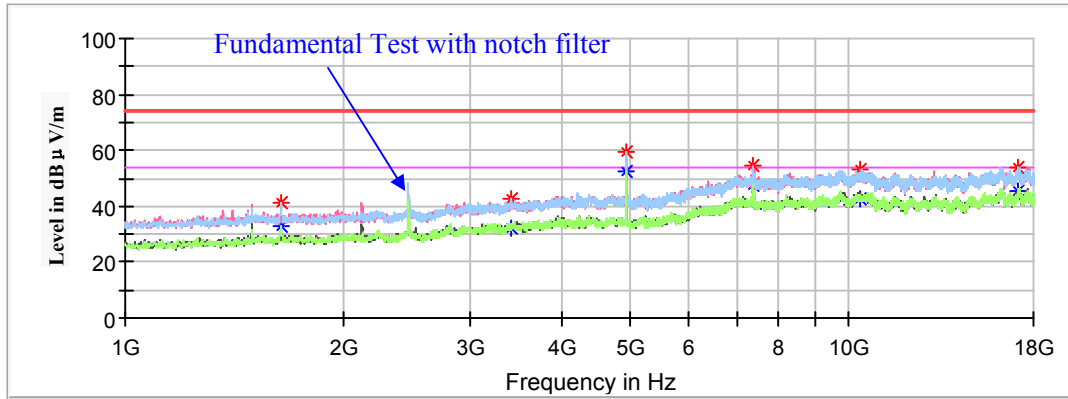
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1623.900000	---	32.97	150.0	H	62.0	-9.0	54.00	21.03
1623.900000	40.74	---	150.0	H	62.0	-9.0	74.00	33.26
3193.000000	---	33.15	150.0	V	184.0	-2.6	54.00	20.85
3193.000000	41.70	---	150.0	V	184.0	-2.6	74.00	32.30
4874.000000	60.73	---	150.0	H	88.0	0.5	74.00	13.27
4874.000000	---	53.62	150.0	H	88.0	0.5	54.00	0.38
7311.000000	---	47.54	200.0	V	353.0	5.1	54.00	6.46
7311.000000	55.27	---	200.0	V	353.0	5.1	74.00	18.73
10419.700000	---	42.09	200.0	V	194.0	12.8	54.00	11.91
10419.700000	52.93	---	200.0	V	194.0	12.8	74.00	21.07
16262.600000	---	44.40	200.0	V	55.0	12.2	54.00	9.60
16262.600000	55.51	---	200.0	V	55.0	12.2	74.00	18.49

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1640.900000	41.08	---	150.0	H	88.0	-8.9	74.00	32.92
1640.900000	---	32.54	150.0	H	88.0	-8.9	54.00	21.46
3422.500000	---	32.06	200.0	V	272.0	-2.0	54.00	21.94
3422.500000	42.63	---	200.0	V	272.0	-2.0	74.00	31.37
4924.000000	59.63	---	200.0	H	25.0	0.4	74.00	14.37
4924.000000	---	52.67	200.0	H	25.0	0.4	54.00	1.33
7386.000000	54.31	---	150.0	V	184.0	5.0	74.00	19.69
7386.000000	---	47.21	150.0	V	184.0	5.0	54.00	6.79
10355.100000	52.92	---	200.0	V	80.0	12.7	74.00	21.08
10355.100000	---	42.86	200.0	V	80.0	12.7	54.00	11.14
17175.500000	---	45.24	150.0	V	209.0	11.6	54.00	8.76
17175.500000	53.87	---	150.0	V	209.0	11.6	74.00	20.13

802.11g Mode:

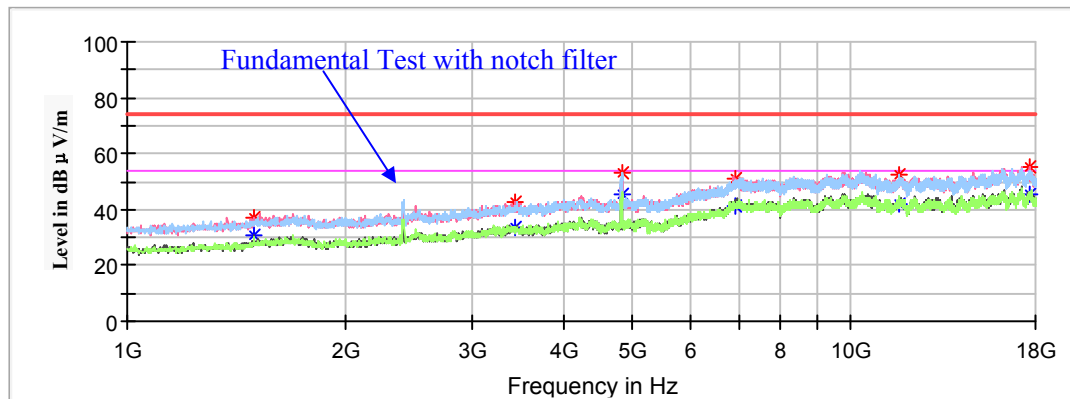
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

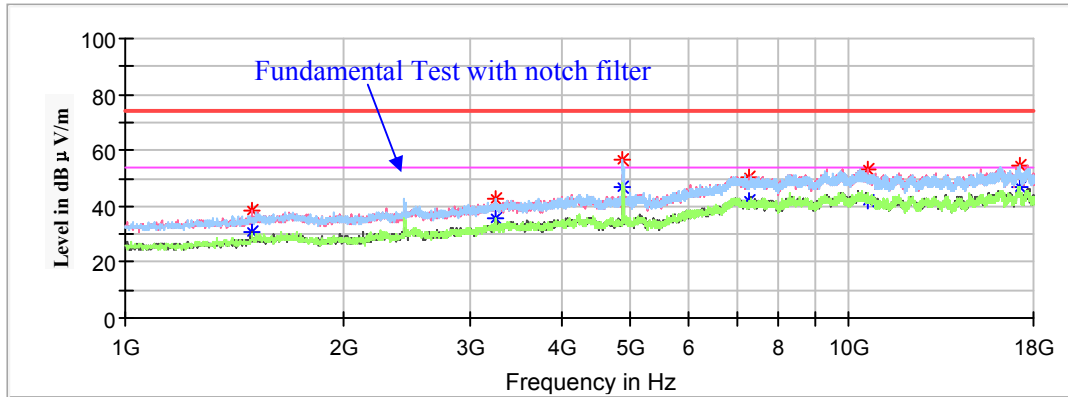
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1494.700000	---	30.63	150.0	V	306.0	-9.4	54.00	23.37
1494.700000	37.06	---	150.0	V	306.0	-9.4	74.00	36.94
3444.600000	---	33.78	150.0	V	344.0	-1.9	54.00	20.22
3444.600000	42.35	---	150.0	V	344.0	-1.9	74.00	31.65
4824.000000	---	45.26	200.0	H	221.0	0.6	54.00	8.74
4824.000000	52.99	---	200.0	H	221.0	0.6	74.00	21.01
6944.900000	---	41.12	200.0	H	145.0	5.7	54.00	12.88
6944.900000	51.30	---	200.0	H	145.0	5.7	74.00	22.70
11679.400000	---	41.89	200.0	H	359.0	11.7	54.00	12.11
11679.400000	52.19	---	200.0	H	359.0	11.7	74.00	21.81
17711.000000	---	45.38	150.0	V	243.0	10.8	54.00	8.62
17711.000000	54.99	---	150.0	V	243.0	10.8	74.00	19.01

Middle Channel: 2437MHz

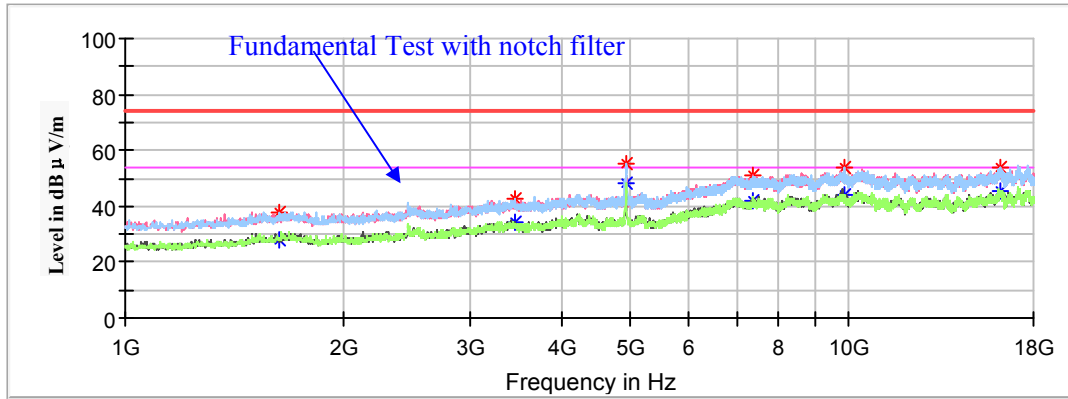
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1494.700000	---	30.59	150.0	V	307.0	-9.4	54.00	23.41
1494.700000	38.66	---	150.0	V	307.0	-9.4	74.00	35.34
3249.100000	---	35.73	150.0	H	167.0	-2.5	54.00	18.27
3249.100000	42.72	---	150.0	H	167.0	-2.5	74.00	31.28
4874.000000	---	46.81	150.0	H	28.0	0.5	54.00	7.19
4874.000000	56.31	---	150.0	H	28.0	0.5	74.00	17.69
7311.000000	---	41.70	200.0	H	348.0	5.1	54.00	12.30
7311.000000	50.52	---	200.0	H	348.0	5.1	74.00	23.48
10611.800000	---	42.07	150.0	H	16.0	12.7	54.00	11.93
10611.800000	53.44	---	150.0	H	16.0	12.7	74.00	20.56
17197.600000	---	46.69	150.0	H	180.0	11.5	54.00	7.31
17197.600000	54.63	---	150.0	H	180.0	11.5	74.00	19.37

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1635.800000	---	28.20	200.0	V	244.0	-8.9	54.00	25.80
1635.800000	37.72	---	200.0	V	244.0	-8.9	74.00	36.28
3463.300000	---	34.00	150.0	V	272.0	-1.9	54.00	20.00
3463.300000	42.60	---	150.0	V	272.0	-1.9	74.00	31.40
4924.000000	---	47.99	150.0	H	49.0	0.4	54.00	6.01
4924.000000	55.13	---	150.0	H	49.0	0.4	74.00	18.87
7386.000000	---	42.24	150.0	H	284.0	5.0	54.00	11.76
7386.000000	51.21	---	150.0	H	284.0	5.0	74.00	22.79
9836.600000	---	44.07	200.0	H	155.0	11.9	54.00	9.93
9836.600000	53.62	---	200.0	H	155.0	11.9	74.00	20.38
16220.100000	---	45.19	150.0	H	311.0	12.2	54.00	8.81
16220.100000	54.14	---	150.0	H	311.0	12.2	74.00	19.86

802.11n-HT20 Mode:

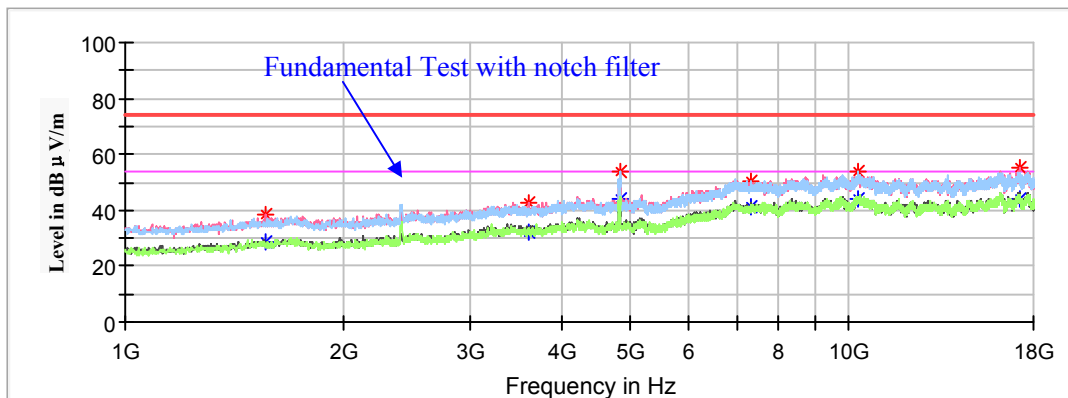
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

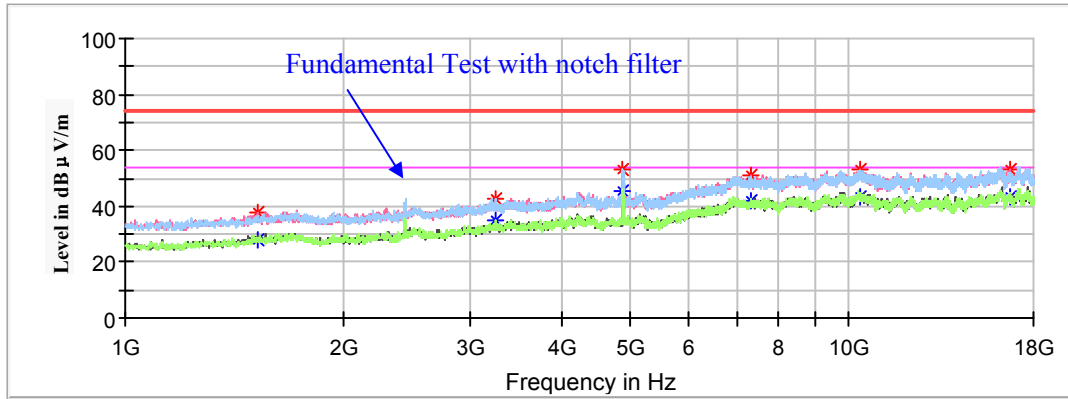
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1562.700000	38.34	---	200.0	V	292.0	-9.2	74.00	35.66
1562.700000	---	28.97	200.0	V	292.0	-9.2	54.00	25.03
3614.600000	42.91	---	150.0	V	243.0	-1.3	74.00	31.09
3614.600000	---	32.18	150.0	V	243.0	-1.3	54.00	21.82
4824.000000	54.03	---	150.0	H	87.0	0.6	74.00	19.97
4824.000000	---	43.82	150.0	H	87.0	0.6	54.00	10.18
7317.200000	50.18	---	200.0	H	307.0	5.3	74.00	23.82
7317.200000	---	40.96	200.0	H	307.0	5.3	54.00	13.04
10316.000000	53.74	---	150.0	H	62.0	12.6	74.00	20.26
10316.000000	---	43.88	150.0	H	62.0	12.6	54.00	10.12
17226.500000	---	44.31	200.0	H	103.0	11.5	54.00	9.69
17226.500000	54.98	---	200.0	H	103.0	11.5	74.00	19.02

Middle Channel: 2437MHz

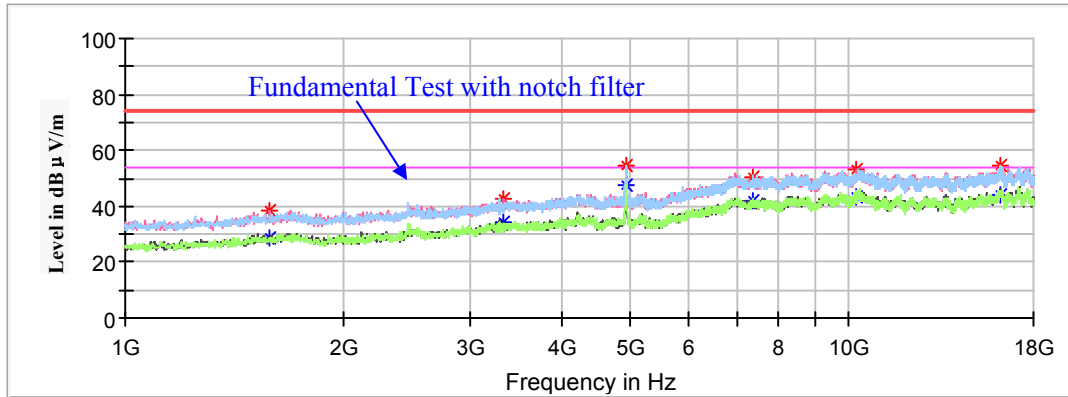
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1520.200000	---	28.14	200.0	V	87.0	-9.3	54.00	25.86
1520.200000	38.07	---	200.0	V	87.0	-9.3	74.00	35.93
3249.100000	---	35.05	150.0	H	177.0	-2.5	54.00	18.95
3249.100000	42.79	---	150.0	H	177.0	-2.5	74.00	31.21
4874.000000	---	45.69	150.0	H	62.0	0.5	54.00	8.31
4874.000000	53.43	---	150.0	H	62.0	0.5	74.00	20.57
7311.000000	---	41.79	150.0	H	272.0	5.1	54.00	12.21
7311.000000	50.82	---	150.0	H	272.0	5.1	74.00	23.18
10373.800000	---	43.59	200.0	V	87.0	12.7	54.00	10.41
10373.800000	53.08	---	200.0	V	87.0	12.7	74.00	20.92
16687.600000	---	43.32	150.0	H	258.0	11.9	54.00	10.68
16687.600000	53.45	---	150.0	H	258.0	11.9	74.00	20.55

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1586.500000	38.56	---	200.0	V	269.0	-9.1	74.00	35.44
1586.500000	---	28.39	200.0	V	269.0	-9.1	54.00	25.61
3340.900000	42.47	---	200.0	V	322.0	-2.2	74.00	31.53
3340.900000	---	34.37	200.0	V	322.0	-2.2	54.00	19.63
4924.000000	54.66	---	150.0	H	88.0	0.4	74.00	19.34
4924.000000	---	47.58	150.0	H	88.0	0.4	54.00	6.42
7386.000000	---	42.07	150.0	H	336.0	5.0	54.00	11.93
7386.000000	50.60	---	150.0	H	336.0	5.0	74.00	23.40
10261.600000	---	43.26	200.0	H	229.0	12.5	54.00	10.74
10261.600000	52.83	---	200.0	H	229.0	12.5	74.00	21.17
16182.700000	---	44.12	150.0	H	75.0	12.3	54.00	9.88
16182.700000	54.86	---	150.0	H	75.0	12.3	74.00	19.14

802.11n-HT40 Mode:

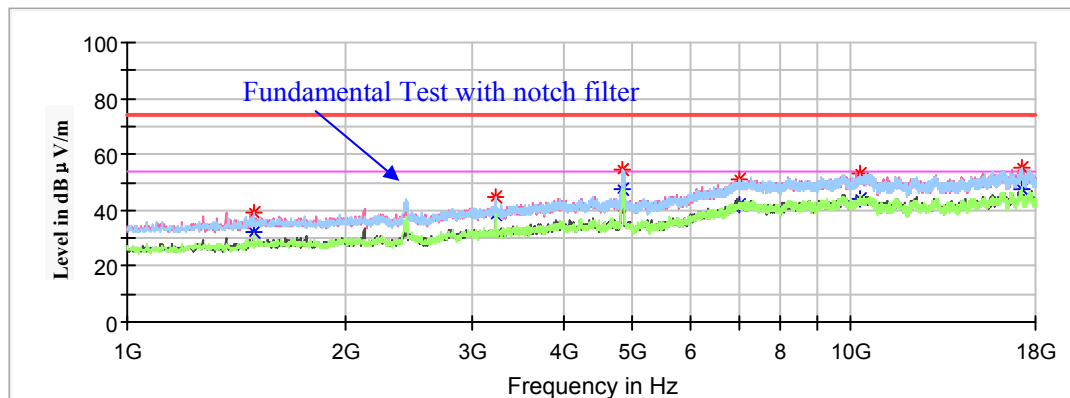
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2422MHz

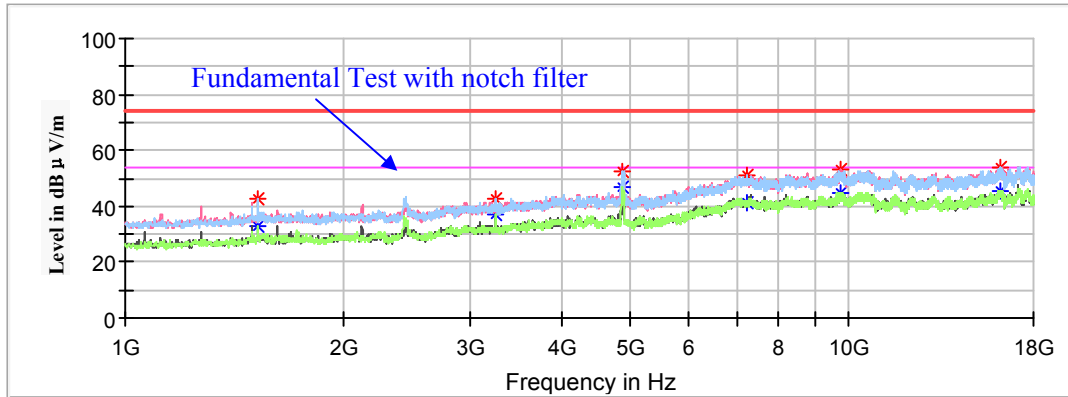
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1494.700000	---	32.28	150.0	V	273.0	-9.4	54.00	21.72
1494.700000	39.15	---	150.0	V	273.0	-9.4	74.00	34.85
3228.700000	---	38.24	200.0	H	318.0	-2.5	54.00	15.76
3228.700000	44.92	---	200.0	H	318.0	-2.5	74.00	29.08
4844.000000	54.30	---	150.0	H	312.0	0.6	74.00	19.70
4844.000000	---	47.42	150.0	H	312.0	0.6	54.00	6.58
7001.000000	---	42.21	200.0	H	117.0	5.2	54.00	11.79
7001.000000	51.24	---	200.0	H	117.0	5.2	74.00	22.76
10305.800000	---	44.02	150.0	V	248.0	12.6	54.00	9.98
10305.800000	53.07	---	150.0	V	248.0	12.6	74.00	20.93
17225.400000	---	47.53	150.0	V	286.0	11.5	54.00	6.47
17225.400000	55.11	---	150.0	V	286.0	11.5	74.00	18.89

Middle Channel: 2437MHz

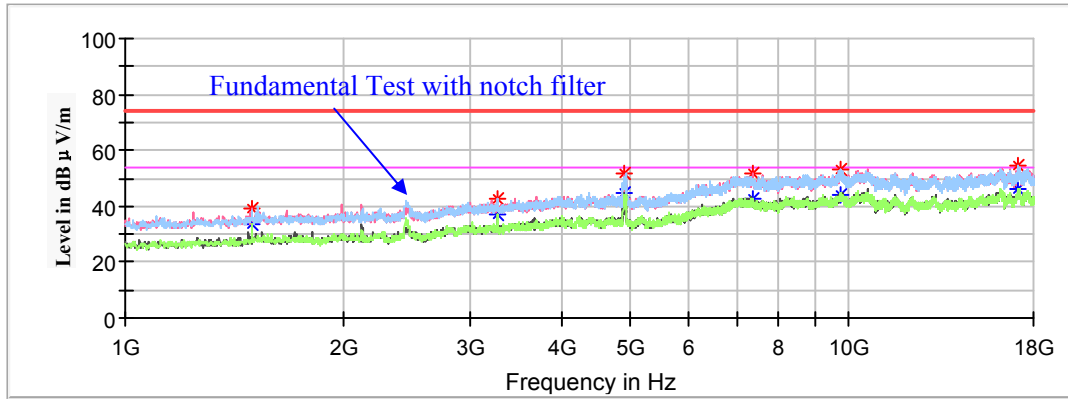
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1525.300000	---	33.11	200.0	H	325.0	-9.3	54.00	20.89
1525.300000	42.71	---	200.0	H	325.0	-9.3	74.00	31.29
3249.100000	---	37.25	150.0	H	325.0	-2.5	54.00	16.75
3249.100000	42.99	---	150.0	H	325.0	-2.5	74.00	31.01
4874.000000	52.63	---	200.0	H	301.0	0.5	74.00	21.37
4874.000000	---	46.69	200.0	H	301.0	0.5	54.00	7.31
7240.700000	---	41.12	200.0	H	355.0	5.1	54.00	12.88
7240.700000	51.18	---	200.0	H	355.0	5.1	74.00	22.82
9758.400000	---	44.43	150.0	H	0.0	11.9	54.00	9.57
9758.400000	52.82	---	150.0	H	0.0	11.9	74.00	21.18
16220.100000	---	45.32	200.0	H	164.0	12.2	54.00	8.68
16220.100000	54.11	---	200.0	H	164.0	12.2	74.00	19.89

High Channel: 2452MHz

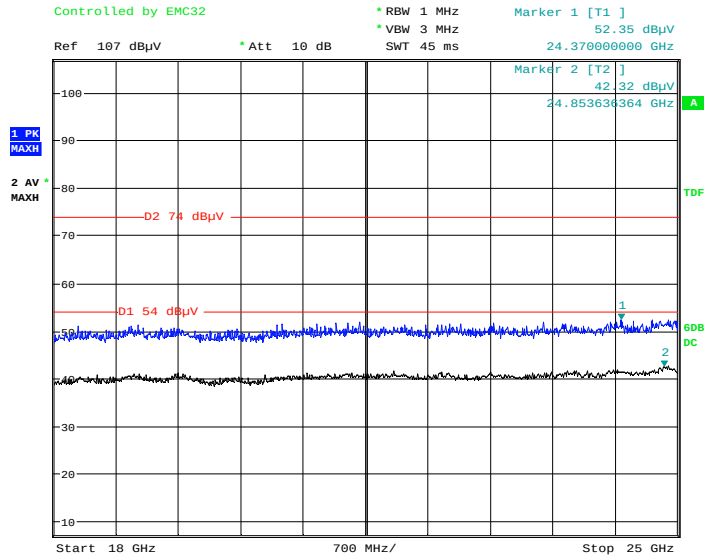
Full Spectrum



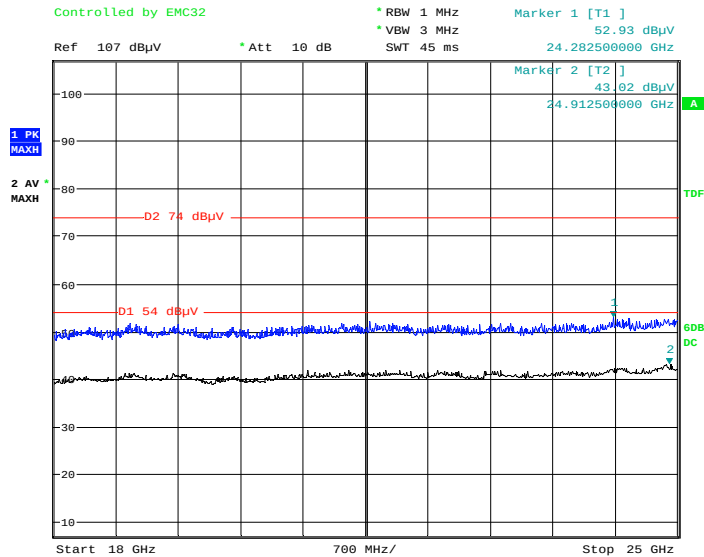
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1494.700000	39.46	---	150.0	V	157.0	-9.4	74.00	34.54
1494.700000	---	33.73	150.0	V	157.0	-9.4	54.00	20.27
3269.500000	---	37.33	150.0	H	46.0	-2.4	54.00	16.67
3269.500000	42.96	---	150.0	H	46.0	-2.4	74.00	31.04
4904.000000	51.97	---	200.0	H	307.0	0.4	74.00	22.03
4904.000000	---	44.84	200.0	H	307.0	0.4	54.00	9.16
7356.000000	---	42.39	200.0	H	75.0	5.0	54.00	11.61
7356.000000	51.64	---	200.0	H	75.0	5.0	74.00	22.36
9756.700000	---	43.97	150.0	H	272.0	11.9	54.00	10.03
9756.700000	53.28	---	150.0	H	272.0	11.9	74.00	20.72
17163.600000	54.78	---	200.0	H	88.0	11.6	74.00	19.22
17163.600000	---	46.16	200.0	H	88.0	11.6	54.00	7.84

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

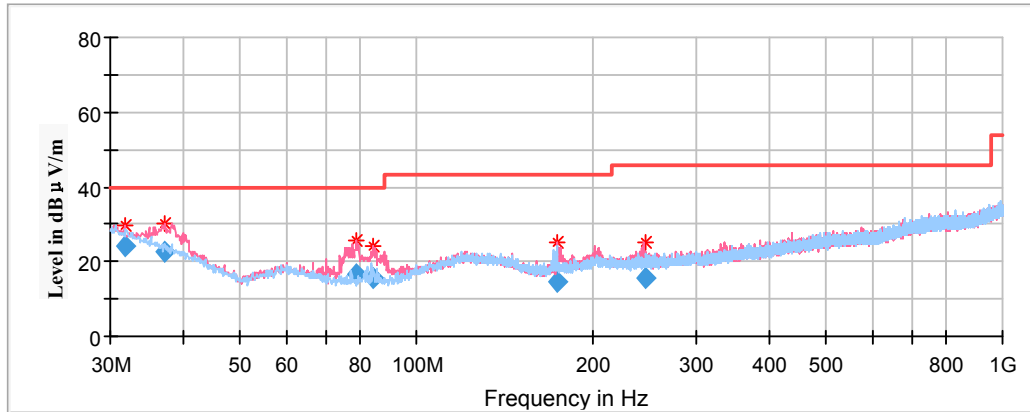
Date: 23.APR.2021 12:45:51

Vertical

Date: 23.APR.2021 12:57:18

Series Model: 9290030090**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
31.819650	24.11	200.0	V	11.0	-4.3	40.00	15.89
37.279700	22.71	100.0	V	304.0	-8.7	40.00	17.29
78.988900	16.55	100.0	V	320.0	-17.2	40.00	23.45
84.320500	15.68	100.0	V	194.0	-17.1	40.00	24.32
174.164900	14.78	200.0	V	198.0	-13.6	43.50	28.72
245.635600	15.43	200.0	V	77.0	-11.9	46.00	30.57

1GHz-18GHz:**802.11b Mode:**

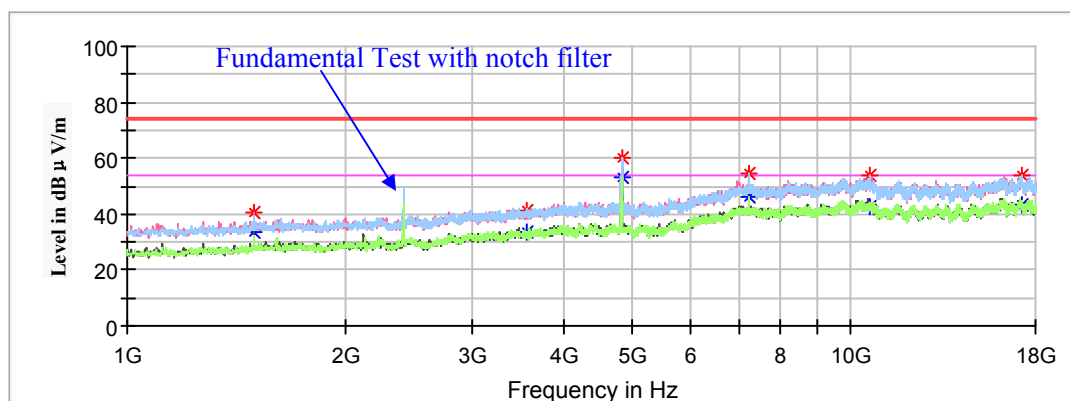
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

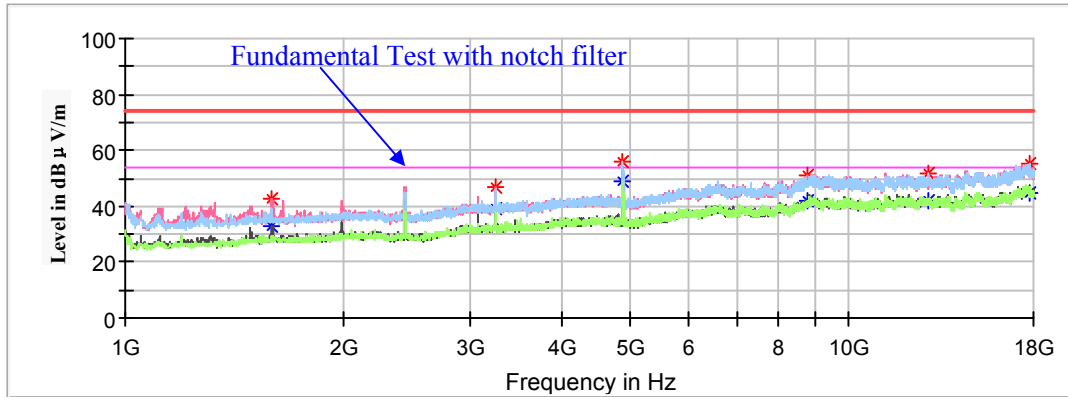
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1591.600000	---	35.36	150.0	V	263.0	-6.2	54.00	18.64
1591.600000	43.56	---	150.0	V	263.0	-6.2	74.00	30.44
3215.100000	---	40.73	150.0	V	18.0	-1.9	54.00	13.27
3215.100000	46.21	---	150.0	V	18.0	-1.9	74.00	27.79
4824.000000	---	51.83	200.0	H	270.0	0.6	54.00	2.17
4824.000000	57.22	---	200.0	H	270.0	0.6	74.00	16.78
7236.000000	---	42.03	150.0	V	101.0	5.3	54.00	11.97
7236.000000	50.02	---	150.0	V	101.0	5.3	74.00	23.98
11441.400000	---	42.06	200.0	H	244.0	10.5	54.00	11.94
11441.400000	51.47	---	200.0	H	244.0	10.5	74.00	22.53
17651.500000	---	47.67	150.0	H	310.0	14.1	54.00	6.33
17651.500000	55.81	---	150.0	H	310.0	14.1	74.00	18.19

Middle Channel: 2437MHz

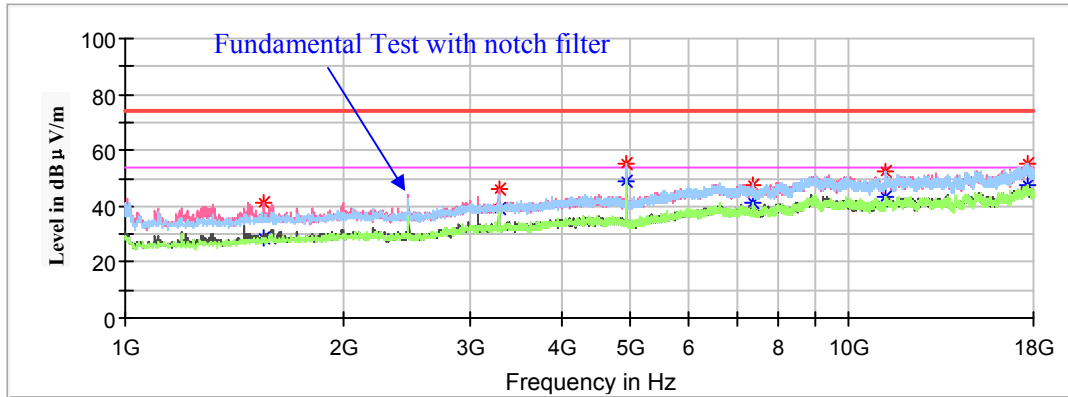
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1595.000000	---	33.18	200.0	V	238.0	-6.2	54.00	20.82
1595.000000	42.95	---	200.0	V	238.0	-6.2	74.00	31.05
3249.100000	---	39.47	150.0	V	20.0	-1.9	54.00	14.53
3249.100000	46.61	---	150.0	V	20.0	-1.9	74.00	27.39
4874.000000	---	48.67	200.0	H	200.0	0.5	54.00	5.33
4874.000000	55.98	---	200.0	H	200.0	0.5	74.00	18.02
8775.800000	---	42.01	200.0	V	213.0	8.6	54.00	11.99
8775.800000	50.86	---	200.0	V	213.0	8.6	74.00	23.14
12854.100000	---	42.11	150.0	V	20.0	10.0	54.00	11.89
12854.100000	51.72	---	150.0	V	20.0	10.0	74.00	22.28
17789.200000	---	45.10	200.0	V	238.0	13.8	54.00	8.90
17789.200000	55.21	---	200.0	V	238.0	13.8	74.00	18.79

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1555.900000	---	28.92	150.0	V	20.0	-6.3	54.00	25.08
1555.900000	41.21	---	150.0	V	20.0	-6.3	74.00	32.79
3281.400000	---	39.16	150.0	V	33.0	-1.9	54.00	14.84
3281.400000	45.82	---	150.0	V	33.0	-1.9	74.00	28.18
4924.000000	---	49.00	150.0	H	198.0	0.4	54.00	5.00
4924.000000	55.01	---	150.0	H	198.0	0.4	74.00	18.99
7386.000000	---	41.32	200.0	V	7.0	5.0	54.00	12.68
7386.000000	47.60	---	200.0	V	7.0	5.0	74.00	26.40
11206.800000	---	43.37	150.0	H	0.0	10.1	54.00	10.63
11206.800000	52.14	---	150.0	H	0.0	10.1	74.00	21.86
17636.200000	---	47.42	150.0	H	338.0	14.1	54.00	6.58
17636.200000	55.21	---	150.0	H	338.0	14.1	74.00	18.79

802.11g Mode:

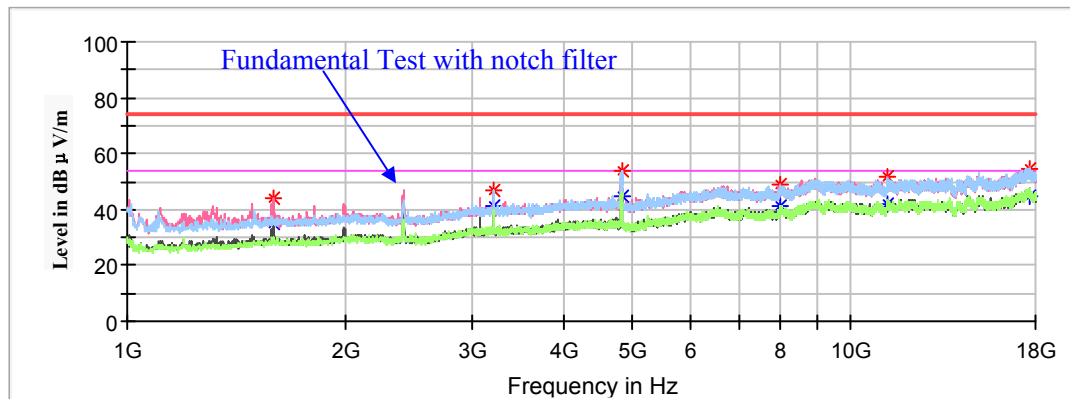
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

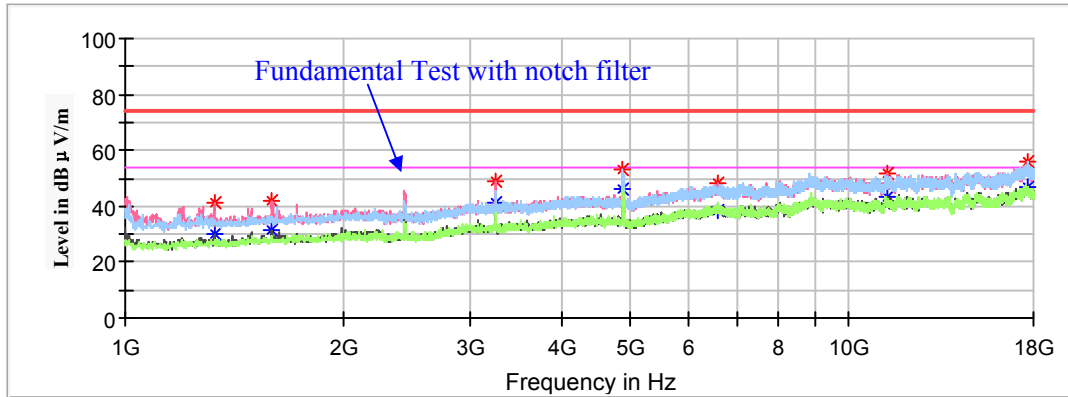
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1593.300000	---	34.96	200.0	V	237.0	-6.2	54.00	19.04
1593.300000	43.83	---	200.0	V	237.0	-6.2	74.00	30.17
3215.100000	---	41.60	200.0	V	29.0	-1.9	54.00	12.40
3215.100000	46.94	---	200.0	V	29.0	-1.9	74.00	27.06
4824.000000	---	44.96	200.0	H	257.0	0.6	54.00	9.04
4824.000000	54.01	---	200.0	H	257.0	0.6	74.00	19.99
8005.700000	---	41.05	200.0	V	148.0	6.1	54.00	12.95
8005.700000	49.19	---	200.0	V	148.0	6.1	74.00	24.81
11242.500000	---	41.90	150.0	V	173.0	10.1	54.00	12.10
11242.500000	51.88	---	150.0	V	173.0	10.1	74.00	22.12
17709.300000	---	44.91	200.0	V	326.0	13.9	54.00	9.09
17709.300000	54.50	---	200.0	V	326.0	13.9	74.00	19.50

Middle Channel: 2437MHz

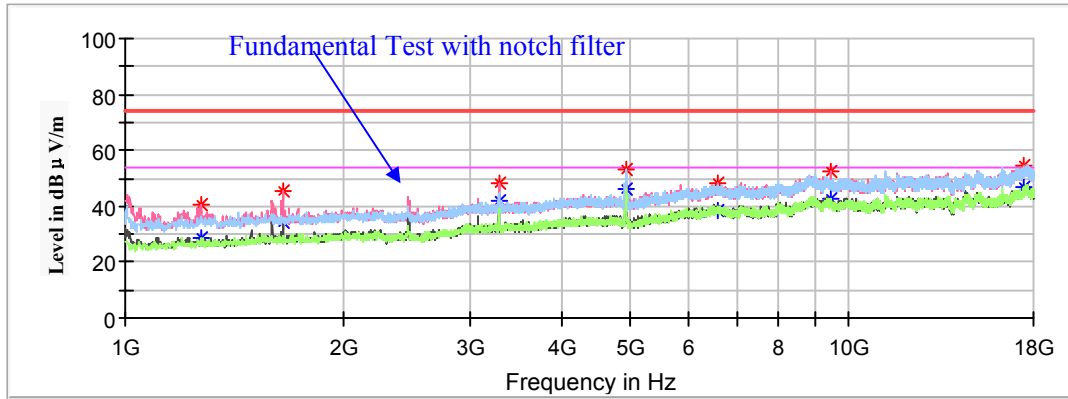
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1326.400000	---	30.18	150.0	V	269.0	-7.4	54.00	23.82
1326.400000	40.92	---	150.0	V	269.0	-7.4	74.00	33.08
1596.700000	---	31.49	200.0	V	323.0	-6.2	54.00	22.51
1596.700000	42.19	---	200.0	V	323.0	-6.2	74.00	31.81
3249.100000	---	41.18	150.0	V	242.0	-1.9	54.00	12.82
3249.100000	48.62	---	150.0	V	242.0	-1.9	74.00	25.38
4874.000000	53.19	---	200.0	H	210.0	0.5	74.00	20.81
4874.000000	---	46.30	200.0	H	210.0	0.5	54.00	7.70
6572.600000	---	38.78	150.0	H	0.0	5.5	54.00	15.22
6572.600000	48.04	---	150.0	V	0.0	5.5	74.00	25.96
11274.800000	---	43.47	200.0	V	163.0	10.2	54.00	10.53
11274.800000	51.47	---	200.0	V	163.0	10.2	74.00	22.53
17648.100000	---	46.70	200.0	H	104.0	14.1	54.00	7.30
17648.100000	55.88	---	200.0	H	104.0	14.1	74.00	18.12

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1270.300000	---	28.89	150.0	H	264.0	-7.7	54.00	25.11
1270.300000	40.35	---	150.0	H	264.0	-7.7	74.00	33.65
1649.400000	---	33.93	200.0	V	137.0	-6.0	54.00	20.07
1649.400000	45.71	---	200.0	V	137.0	-6.0	74.00	28.29
3281.400000	---	42.23	150.0	V	228.0	-1.9	54.00	11.77
3281.400000	48.22	---	150.0	V	228.0	-1.9	74.00	25.78
4924.000000	52.85	---	150.0	H	200.0	0.4	74.00	21.15
4924.000000	---	45.90	150.0	H	200.0	0.4	54.00	8.10
6581.100000	---	38.75	150.0	H	104.0	5.5	54.00	15.25
6581.100000	48.39	---	150.0	H	104.0	5.5	74.00	25.61
9421.800000	52.31	---	200.0	V	43.0	9.2	74.00	21.69
9421.800000	---	42.33	200.0	V	43.0	9.2	54.00	11.67
17473.000000	54.29	---	150.0	V	2.0	14.4	74.00	19.71
17473.000000	---	46.70	150.0	V	2.0	14.4	54.00	7.30

802.11n-HT20 Mode:

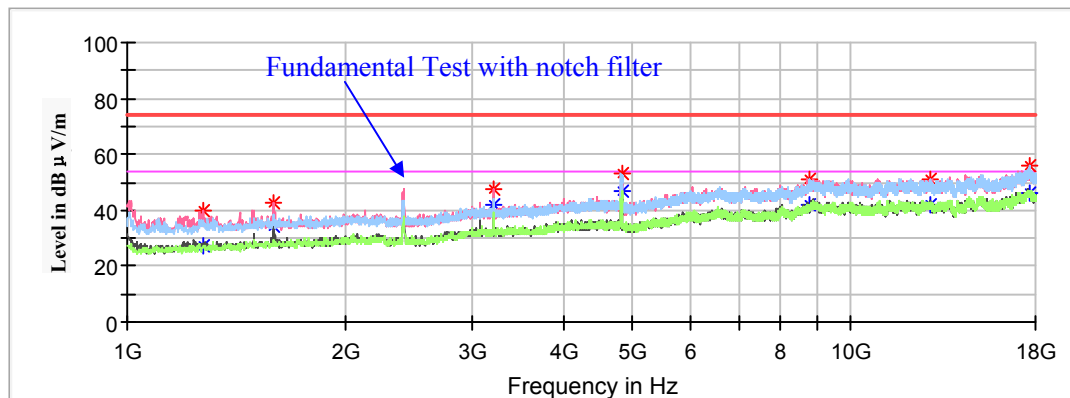
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

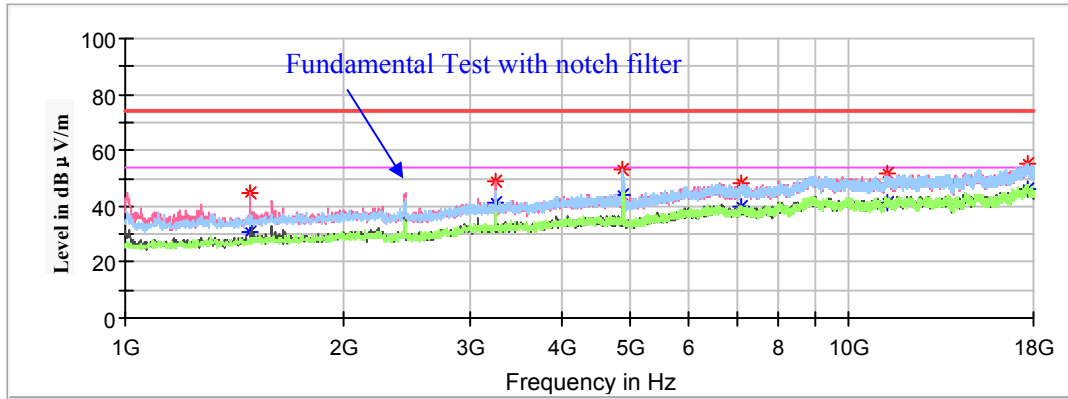
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1272.000000	---	27.37	200.0	V	0.0	-7.7	54.00	26.63
1272.000000	39.62	---	200.0	V	0.0	-7.7	74.00	34.38
1593.300000	---	34.43	150.0	V	294.0	-6.2	54.00	19.57
1593.300000	42.79	---	150.0	V	294.0	-6.2	74.00	31.21
3215.100000	---	41.63	150.0	V	227.0	-1.9	54.00	12.37
3215.100000	47.57	---	150.0	V	227.0	-1.9	74.00	26.43
4824.000000	53.10	---	200.0	H	234.0	0.6	74.00	20.90
4824.000000	---	47.11	200.0	H	196.0	0.6	54.00	6.89
8741.800000	---	42.17	150.0	V	352.0	8.5	54.00	11.83
8741.800000	51.20	---	150.0	V	352.0	8.5	74.00	22.80
12891.500000	---	41.84	200.0	H	15.0	9.9	54.00	12.16
12891.500000	51.25	---	200.0	H	15.0	9.9	74.00	22.75
17641.300000	---	46.13	150.0	H	0.0	14.1	54.00	7.87
17641.300000	55.70	---	150.0	H	0.0	14.1	74.00	18.30

Middle Channel: 2437MHz

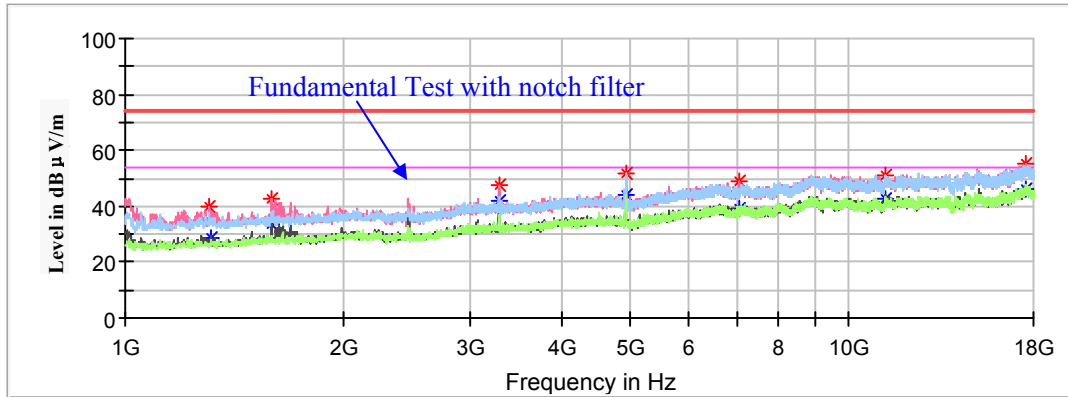
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1489.600000	---	30.82	200.0	V	277.0	-6.5	54.00	23.18
1489.600000	44.61	---	200.0	V	277.0	-6.5	74.00	29.39
3249.100000	---	41.14	150.0	V	239.0	-1.9	54.00	12.86
3249.100000	49.25	---	150.0	V	239.0	-1.9	74.00	24.75
4874.000000	53.39	---	150.0	H	211.0	0.5	74.00	20.61
4874.000000	---	44.41	150.0	H	211.0	0.5	54.00	9.59
7114.900000	---	39.59	200.0	H	57.0	5.5	54.00	14.41
7114.900000	48.01	---	200.0	H	57.0	5.5	74.00	25.99
11315.600000	---	41.41	150.0	V	183.0	10.3	54.00	12.59
11315.600000	51.55	---	150.0	V	183.0	10.3	74.00	22.45
17636.200000	---	46.30	200.0	H	323.0	14.1	54.00	7.70
17636.200000	55.15	---	200.0	H	323.0	14.1	74.00	18.85

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1309.400000	40.16	---	150.0	V	216.0	-7.5	74.00	33.84
1309.400000	---	28.99	150.0	V	216.0	-7.5	54.00	25.01
1593.300000	---	33.33	200.0	V	293.0	-6.2	54.00	20.67
1593.300000	42.39	---	200.0	V	293.0	-6.2	74.00	31.61
3281.400000	47.52	---	150.0	V	216.0	-1.9	74.00	26.48
3281.400000	---	41.74	150.0	V	216.0	-1.9	54.00	12.26
4924.000000	---	43.94	150.0	H	309.0	0.4	54.00	10.06
4924.000000	51.89	---	150.0	H	309.0	0.4	74.00	22.11
7074.100000	---	39.04	200.0	V	53.0	5.6	54.00	14.96
7074.100000	48.68	---	200.0	V	53.0	5.6	74.00	25.32
11245.900000	51.25	---	200.0	V	280.0	10.1	74.00	22.75
11245.900000	---	42.71	200.0	V	280.0	10.1	54.00	11.29
17600.500000	---	45.91	150.0	V	318.0	14.2	54.00	8.09
17600.500000	55.22	---	150.0	V	318.0	14.2	74.00	18.78

802.11n-HT40 Mode:

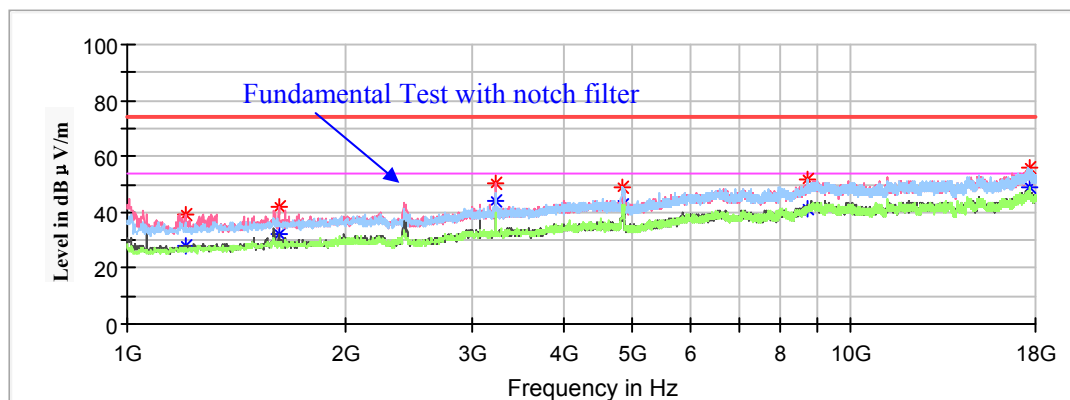
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

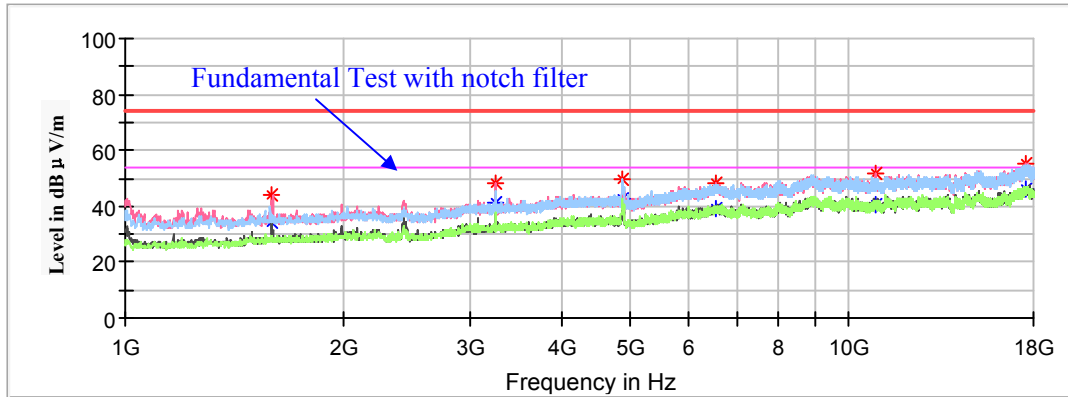
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1202.300000	---	27.70	150.0	V	306.0	-8.0	54.00	26.30
1202.300000	39.17	---	150.0	V	306.0	-8.0	74.00	34.83
1618.800000	---	31.94	200.0	V	310.0	-6.1	54.00	22.06
1618.800000	42.14	---	200.0	V	310.0	-6.1	74.00	31.86
3228.700000	---	44.13	200.0	V	230.0	-1.9	54.00	9.87
3228.700000	50.59	---	200.0	V	230.0	-1.9	74.00	23.41
4844.000000	---	42.76	150.0	H	203.0	0.6	54.00	11.24
4844.000000	49.01	---	150.0	H	203.0	0.6	74.00	24.99
8726.500000	---	41.26	200.0	H	130.0	8.4	54.00	12.74
8726.500000	51.60	---	200.0	H	130.0	8.4	74.00	22.40
17620.900000	55.68	---	200.0	H	213.0	14.2	74.00	18.32
17620.900000	---	49.03	200.0	H	213.0	14.2	54.00	4.97

Middle Channel: 2437MHz

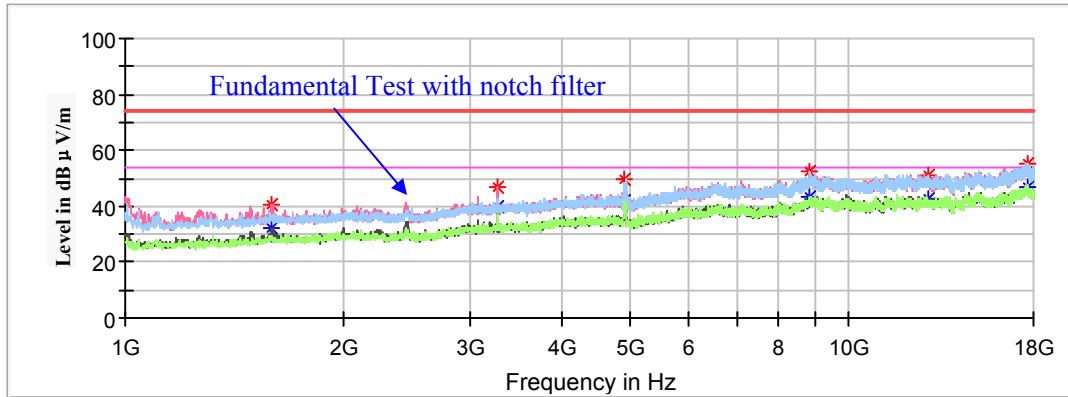
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1595.000000	---	34.01	200.0	V	94.0	-6.2	54.00	19.99
1595.000000	43.89	---	200.0	V	94.0	-6.2	74.00	30.11
3249.100000	---	40.95	150.0	V	230.0	-1.9	54.00	13.05
3249.100000	48.41	---	150.0	V	230.0	-1.9	74.00	25.59
4874.000000	49.92	---	150.0	H	210.0	0.5	74.00	24.08
4874.000000	---	42.81	150.0	H	210.0	0.5	54.00	11.19
6543.700000	---	39.44	200.0	V	204.0	5.4	54.00	14.56
6543.700000	48.21	---	200.0	V	204.0	5.4	74.00	25.79
10904.200000	---	40.41	150.0	V	319.0	9.4	54.00	13.59
10904.200000	51.40	---	150.0	V	319.0	9.4	74.00	22.60
17595.400000	---	45.94	200.0	V	67.0	14.2	54.00	8.06
17595.400000	55.18	---	200.0	V	67.0	14.2	74.00	18.82

High Channel: 2452MHz

Full Spectrum

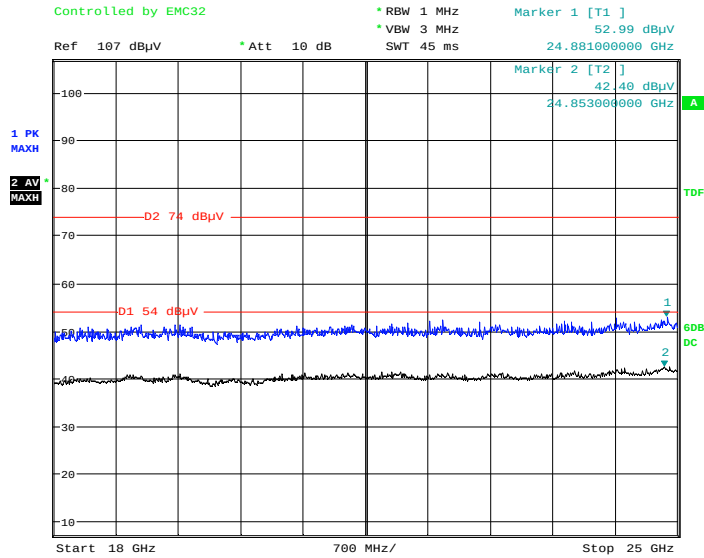


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1593.300000	40.87	---	150.0	V	69.0	-6.2	74.00	33.13
1593.300000	---	32.47	150.0	V	69.0	-6.2	54.00	21.53
3267.800000	---	40.18	200.0	V	227.0	-1.9	54.00	13.82
3267.800000	46.97	---	200.0	V	227.0	-1.9	74.00	27.03
4904.000000	---	41.95	150.0	H	215.0	0.4	54.00	12.05
4904.000000	49.49	---	150.0	H	215.0	0.4	74.00	24.51
8847.200000	---	43.34	200.0	H	255.0	8.9	54.00	10.66
8847.200000	52.49	---	200.0	H	255.0	8.9	74.00	21.51
12857.500000	---	42.40	200.0	V	175.0	10.0	54.00	11.60
12857.500000	51.23	---	200.0	V	175.0	10.0	74.00	22.77
17653.200000	---	46.70	200.0	H	345.0	14.1	54.00	7.30
17653.200000	55.37	---	200.0	H	345.0	14.1	74.00	18.63

18GHz-25GHz:

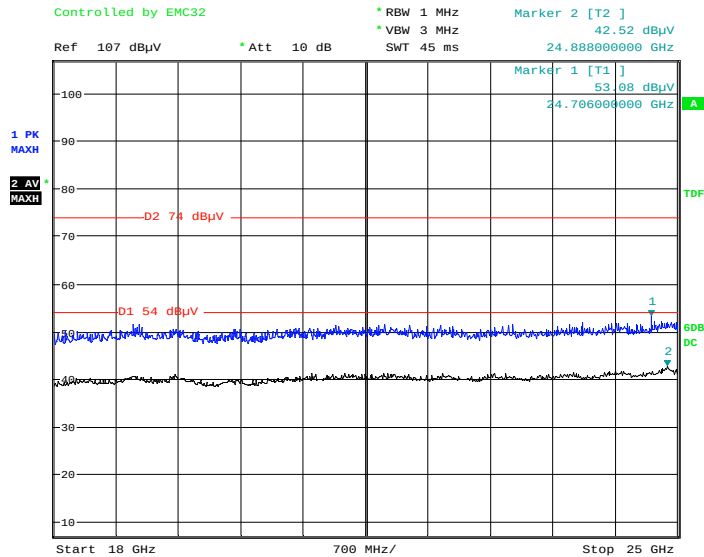
Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal



Date: 19.JUL.2021 22:40:37

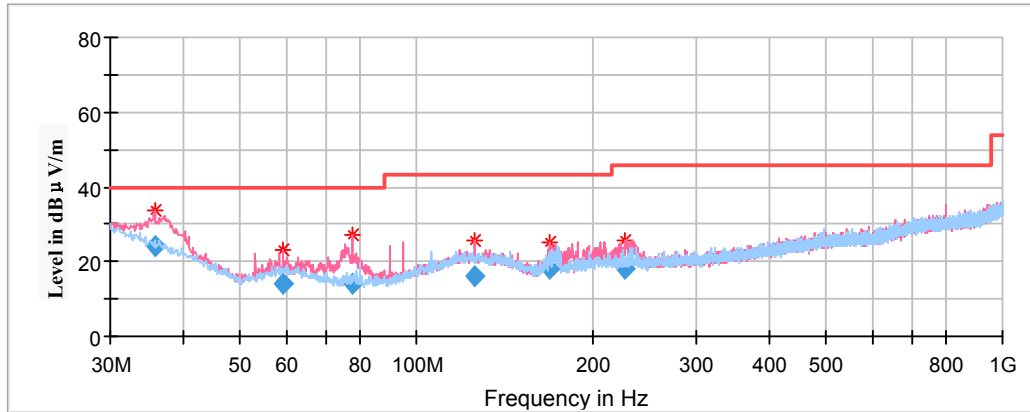
Vertical



Date: 19.JUL.2021 22:46:24

Series Model: 9290030091**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
35.692350	24.40	100.0	V	116.0	-8.1	40.00	15.60
59.106300	14.18	100.0	V	209.0	-14.5	40.00	25.82
77.894250	13.97	200.0	V	195.0	-17.1	40.00	26.03
125.541600	15.96	100.0	V	214.0	-11.0	43.50	27.54
168.718800	17.93	100.0	V	105.0	-13.8	43.50	25.57
226.542950	17.99	100.0	V	144.0	-12.0	46.00	28.01

1GHz-18GHz:**802.11b Mode:**

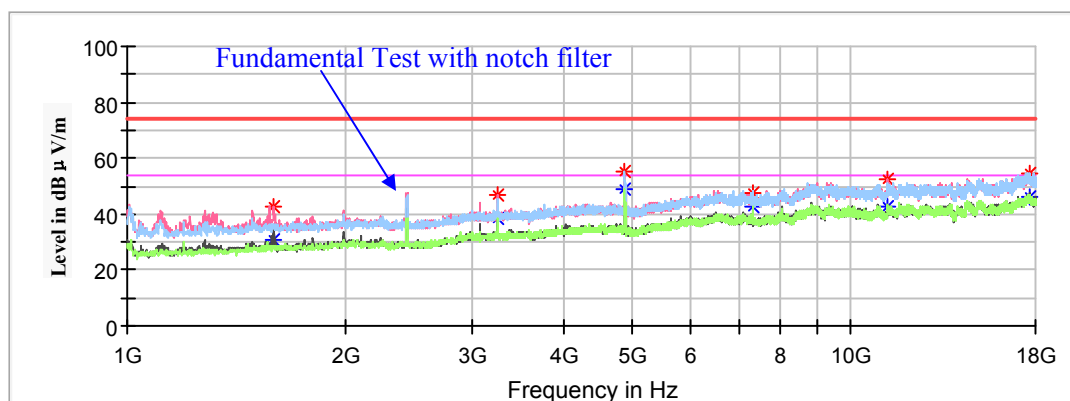
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

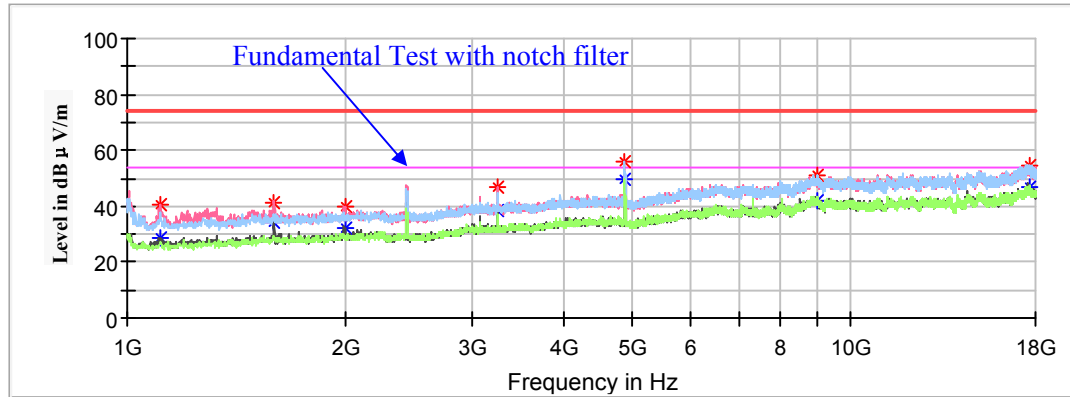
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1595.000000	---	30.86	200.0	V	270.0	-6.2	54.00	23.14
1595.000000	42.54	---	200.0	V	270.0	-6.2	74.00	31.46
3249.100000	---	38.70	150.0	V	96.0	-1.9	54.00	15.30
3249.100000	47.16	---	150.0	V	96.0	-1.9	74.00	26.84
4824.000000	---	48.78	150.0	H	249.0	0.6	54.00	5.22
4824.000000	55.06	---	150.0	H	249.0	0.6	74.00	18.94
7308.700000	---	42.32	200.0	H	254.0	5.1	54.00	11.68
7308.700000	47.45	---	200.0	H	254.0	5.1	74.00	26.55
11203.400000	---	42.67	150.0	H	287.0	10.0	54.00	11.33
11203.400000	52.32	---	150.0	H	287.0	10.0	74.00	21.68
17643.000000	---	46.02	150.0	H	160.0	14.1	54.00	7.98
17643.000000	54.78	---	150.0	H	160.0	14.1	74.00	19.22

Middle Channel: 2437MHz

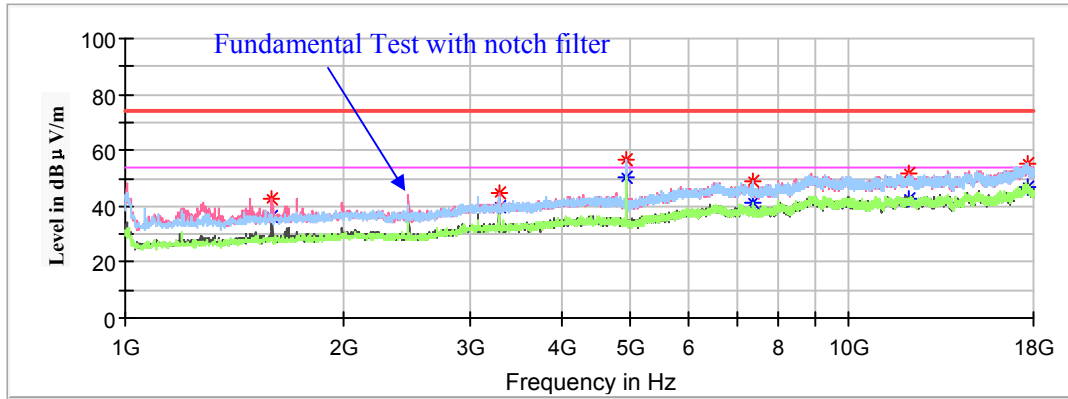
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1112.200000	---	28.50	200.0	V	0.0	-8.5	54.00	25.50
1112.200000	40.49	---	200.0	V	0.0	-8.5	74.00	33.51
1596.700000	---	33.99	150.0	V	270.0	-6.2	54.00	20.01
1596.700000	41.52	---	150.0	V	270.0	-6.2	74.00	32.48
1997.900000	---	32.22	150.0	V	90.0	-4.9	54.00	21.78
1997.900000	40.03	---	150.0	V	90.0	-4.9	74.00	33.97
3249.100000	---	38.40	150.0	V	14.0	-1.9	54.00	15.60
3249.100000	46.55	---	150.0	V	14.0	-1.9	74.00	27.45
4874.000000	55.91	---	200.0	H	200.0	0.5	74.00	18.09
4874.000000	---	49.81	200.0	H	212.0	0.5	54.00	4.19
9013.800000	---	42.00	150.0	H	89.0	9.5	54.00	12.00
9013.800000	50.92	---	150.0	H	89.0	9.5	74.00	23.08
17654.900000	---	46.51	150.0	H	89.0	14.1	54.00	7.49
17654.900000	54.83	---	150.0	H	89.0	14.1	74.00	19.17

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1591.600000	42.83	---	150.0	V	231.0	-6.2	74.00	31.17
1591.600000	---	36.19	150.0	V	271.0	-6.2	54.00	17.81
3281.400000	---	39.59	150.0	V	34.0	-1.9	54.00	14.41
3281.400000	44.73	---	150.0	V	34.0	-1.9	74.00	29.27
4924.000000	---	50.23	200.0	H	204.0	0.4	54.00	3.77
4924.000000	56.41	---	200.0	H	204.0	0.4	74.00	17.59
7386.000000	---	41.36	150.0	H	237.0	5.0	54.00	12.64
7386.000000	48.97	---	150.0	H	338.0	5.0	74.00	25.03
12112.900000	---	42.78	200.0	V	37.0	10.1	54.00	11.22
12112.900000	51.55	---	200.0	V	37.0	10.1	74.00	22.45
17632.800000	---	47.09	200.0	H	217.0	14.1	54.00	6.91
17632.800000	55.29	---	200.0	H	217.0	14.1	74.00	18.71

802.11g Mode:

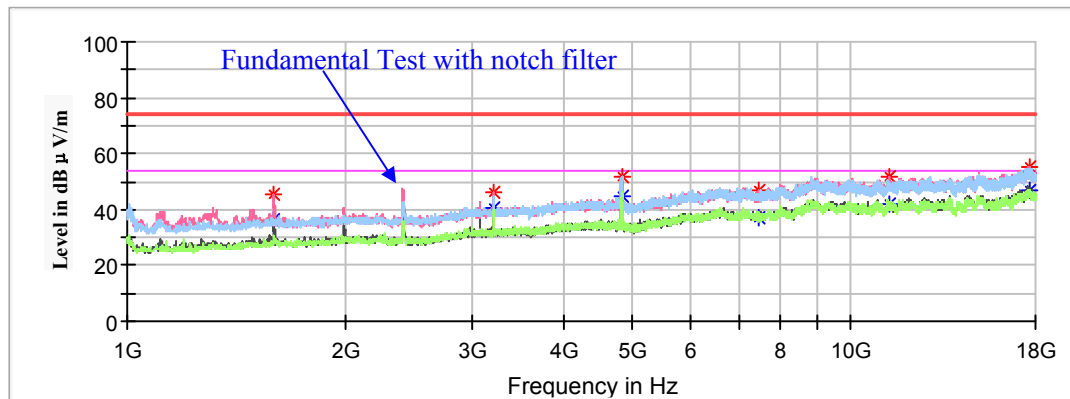
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

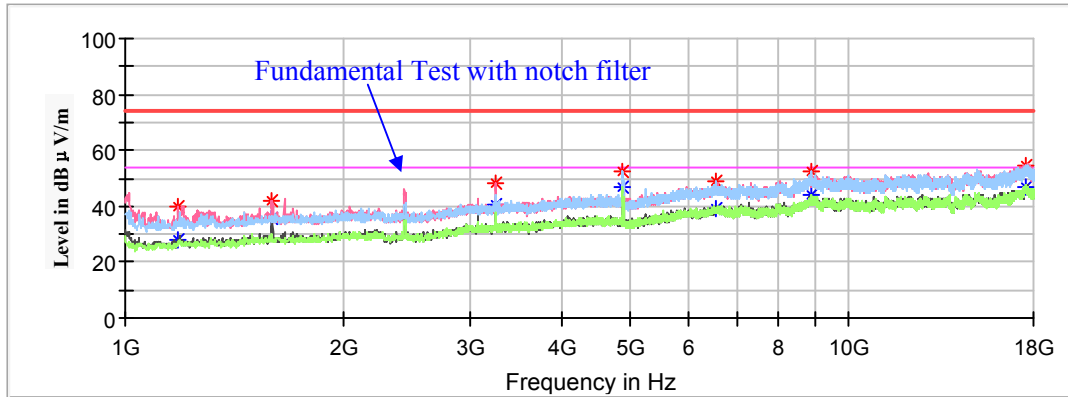
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1593.300000	---	36.05	150.0	V	257.0	-6.2	54.00	17.95
1593.300000	45.48	---	150.0	V	257.0	-6.2	74.00	28.52
3215.100000	---	40.85	200.0	V	36.0	-1.9	54.00	13.15
3215.100000	45.91	---	200.0	V	36.0	-1.9	74.00	28.09
4824.000000	---	45.05	200.0	V	0.0	0.6	54.00	8.95
4824.000000	51.67	---	200.0	V	0.0	0.6	74.00	22.33
7441.300000	---	37.38	200.0	V	207.0	5.3	54.00	16.62
7441.300000	46.84	---	200.0	V	207.0	5.3	74.00	27.16
11317.300000	---	41.92	200.0	V	270.0	10.3	54.00	12.08
11317.300000	52.09	---	200.0	V	270.0	10.3	74.00	21.91
17704.200000	---	46.61	200.0	V	356.0	14.0	54.00	7.39
17704.200000	54.98	---	200.0	V	356.0	14.0	74.00	19.02

Middle Channel: 2437MHz

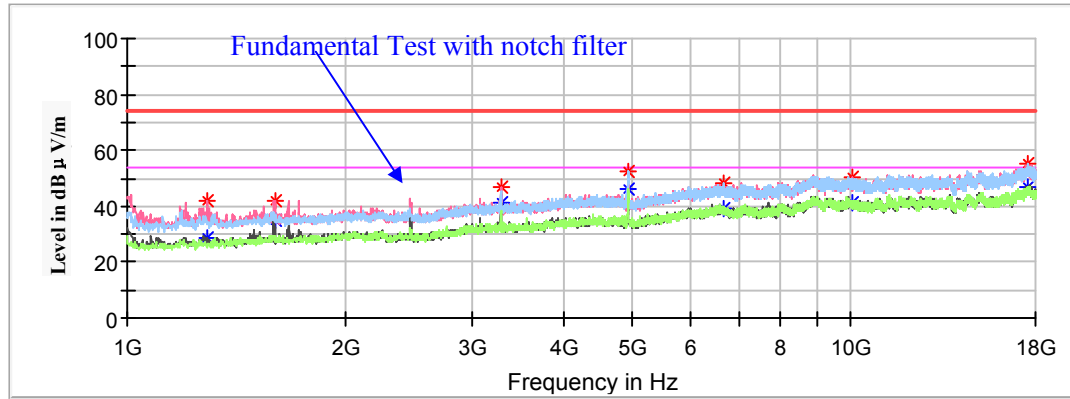
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1183.600000	---	27.88	200.0	V	0.0	-8.1	54.00	26.12
1183.600000	40.04	---	200.0	V	0.0	-8.1	74.00	33.96
1596.700000	---	36.00	150.0	V	311.0	-6.2	54.00	18.00
1596.700000	42.19	---	150.0	V	311.0	-6.2	74.00	31.81
3249.100000	---	40.55	150.0	V	257.0	-1.9	54.00	13.45
3249.100000	48.06	---	150.0	V	257.0	-1.9	74.00	25.94
4874.000000	---	46.79	150.0	H	205.0	0.5	54.00	7.21
4874.000000	52.69	---	150.0	H	205.0	0.5	74.00	21.31
6545.400000	---	39.41	150.0	H	294.0	5.4	54.00	14.59
6545.400000	48.92	---	150.0	H	294.0	5.4	74.00	25.08
8854.000000	52.67	---	200.0	H	354.0	8.9	74.00	21.33
8854.000000	---	44.37	200.0	H	354.0	8.9	54.00	9.63
17585.200000	---	46.67	200.0	V	140.0	14.2	54.00	7.33
17585.200000	54.89	---	200.0	V	140.0	14.2	74.00	19.11

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1290.700000	---	28.64	150.0	V	150.0	-7.6	54.00	25.36
1290.700000	41.65	---	150.0	V	150.0	-7.6	74.00	32.35
1598.400000	---	34.89	200.0	V	283.0	-6.2	54.00	19.11
1598.400000	41.80	---	200.0	V	283.0	-6.2	74.00	32.20
3281.400000	---	41.52	200.0	V	215.0	-1.9	54.00	12.48
3281.400000	46.61	---	200.0	V	215.0	-1.9	74.00	27.39
4924.000000	52.50	---	150.0	H	302.0	0.4	74.00	21.50
4924.000000	---	46.29	150.0	H	302.0	0.4	54.00	7.71
6669.500000	---	39.48	150.0	V	176.0	5.5	54.00	14.52
6669.500000	48.34	---	150.0	V	176.0	5.5	74.00	25.66
10027.000000	---	41.13	150.0	V	0.0	8.7	54.00	12.87
10027.000000	50.36	---	150.0	V	0.0	8.7	74.00	23.64
17554.600000	---	46.94	200.0	H	226.0	14.3	54.00	7.06
17554.600000	55.17	---	200.0	H	226.0	14.3	74.00	18.83

802.11n-HT20 Mode:

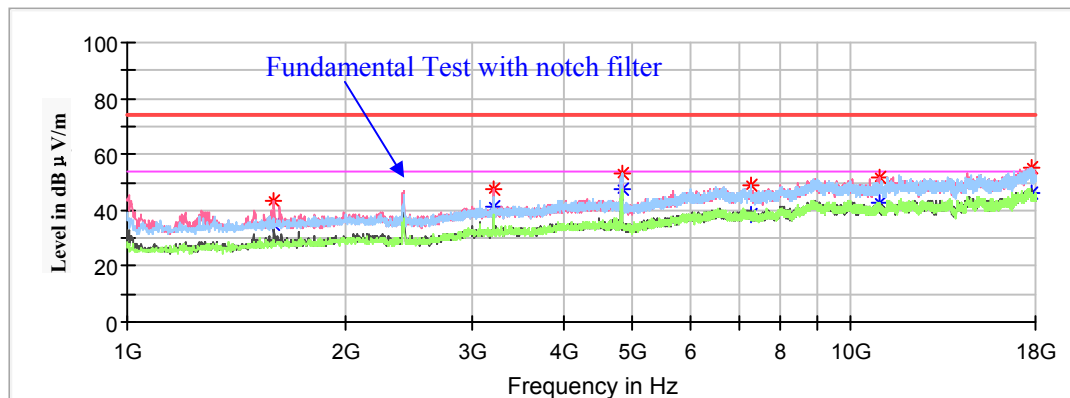
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

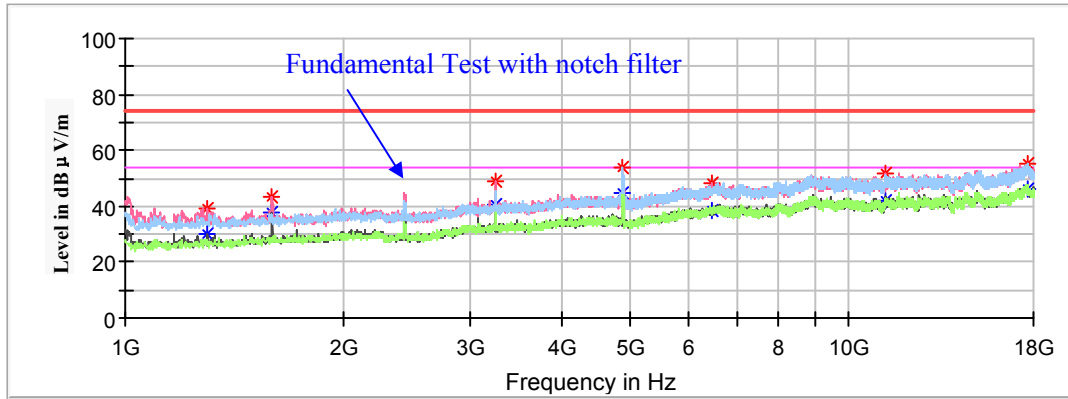
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1595.000000	---	35.00	150.0	V	323.0	-6.2	54.00	19.00
1595.000000	43.17	---	150.0	V	323.0	-6.2	74.00	30.83
3215.100000	---	41.12	200.0	V	296.0	-1.9	54.00	12.88
3215.100000	47.43	---	200.0	V	296.0	-1.9	74.00	26.57
4824.000000	---	47.44	150.0	H	222.0	0.6	54.00	6.56
4824.000000	53.06	---	150.0	H	222.0	0.6	74.00	20.94
7236.000000	---	38.62	200.0	H	77.0	5.3	54.00	15.38
7236.000000	48.94	---	200.0	H	77.0	5.3	74.00	25.06
10934.800000	---	42.39	150.0	H	286.0	9.5	54.00	11.61
10934.800000	51.93	---	150.0	H	286.0	9.5	74.00	22.07
17724.600000	---	46.37	200.0	V	251.0	13.9	54.00	7.63
17724.600000	55.33	---	200.0	V	251.0	13.9	74.00	18.67

Middle Channel: 2437MHz

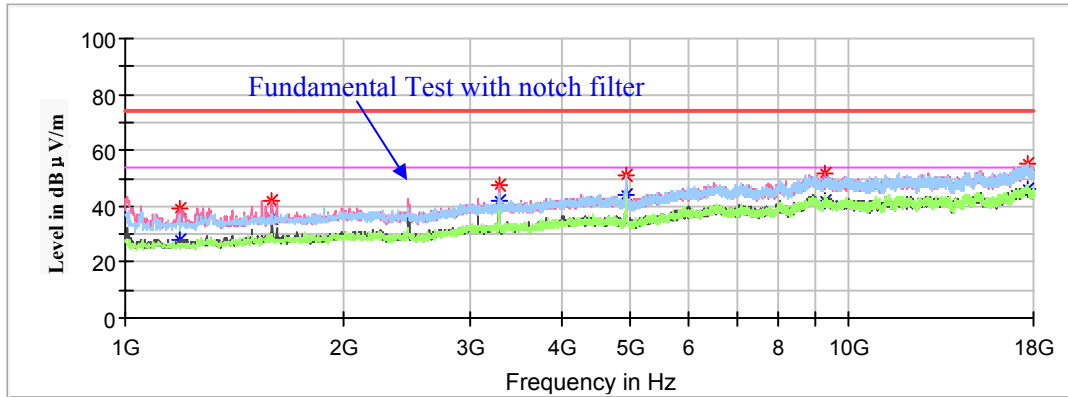
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1300.900000	---	29.98	150.0	V	351.0	-7.5	54.00	24.02
1300.900000	39.41	---	150.0	V	351.0	-7.5	74.00	34.59
1595.000000	43.05	---	200.0	V	316.0	-6.2	74.00	30.95
1595.000000	---	37.74	200.0	V	291.0	-6.2	54.00	16.26
3249.100000	48.80	---	200.0	V	214.0	-1.9	74.00	25.20
3249.100000	---	40.59	200.0	V	214.0	-1.9	54.00	13.41
4874.000000	---	44.89	150.0	V	214.0	0.5	54.00	9.11
4874.000000	53.60	---	150.0	V	214.0	0.5	74.00	20.40
6468.900000	---	38.59	150.0	H	1.0	5.3	54.00	15.41
6468.900000	48.18	---	150.0	H	1.0	5.3	74.00	25.82
11217.000000	51.55	---	200.0	V	329.0	10.1	74.00	22.45
11217.000000	---	42.16	200.0	V	329.0	10.1	54.00	11.84
17627.700000	---	46.39	200.0	H	203.0	14.1	54.00	7.61
17627.700000	55.33	---	200.0	H	203.0	14.1	74.00	18.67

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1190.400000	---	27.74	200.0	V	343.0	-8.1	54.00	26.26
1190.400000	39.50	---	200.0	V	343.0	-8.1	74.00	34.50
1596.700000	---	35.46	150.0	V	293.0	-6.2	54.00	18.54
1596.700000	42.05	---	150.0	V	293.0	-6.2	74.00	31.95
3281.400000	---	42.14	200.0	V	216.0	-1.9	54.00	11.86
3281.400000	47.46	---	200.0	V	216.0	-1.9	74.00	26.54
4924.000000	---	43.82	150.0	H	203.0	0.4	54.00	10.18
4924.000000	50.88	---	150.0	H	203.0	0.4	74.00	23.12
9277.300000	---	41.75	200.0	V	151.0	9.3	54.00	12.25
9277.300000	51.94	---	200.0	V	151.0	9.3	74.00	22.06
17615.800000	55.53	---	150.0	V	358.0	14.2	74.00	18.47
17615.800000	---	46.23	150.0	V	358.0	14.2	54.00	7.77

802.11n-HT40 Mode:

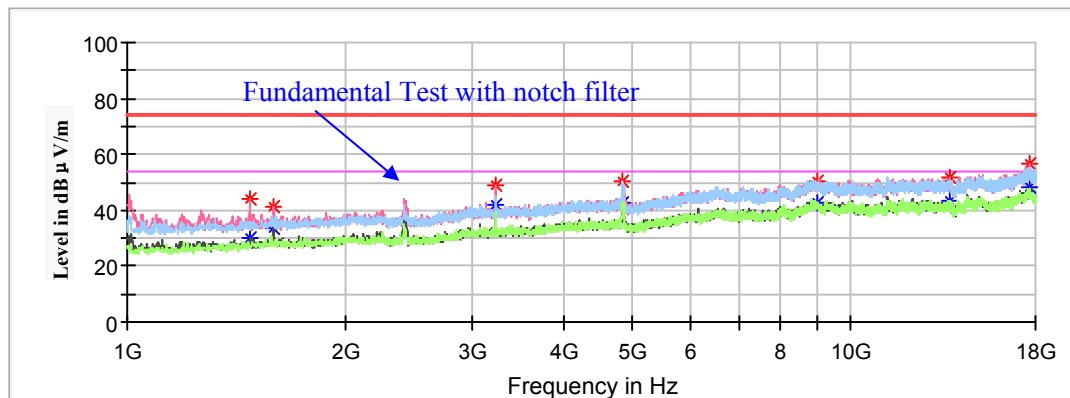
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

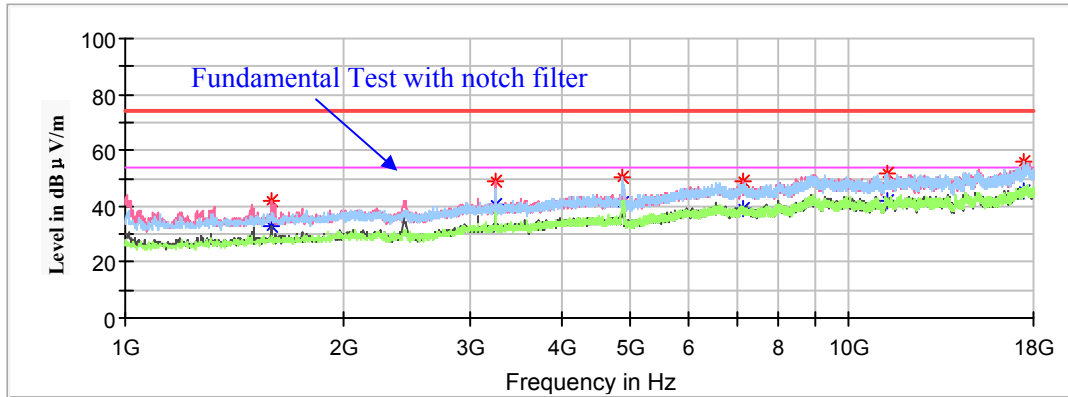
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1476.000000	---	29.84	200.0	V	291.0	-6.6	54.00	24.16
1476.000000	43.99	---	200.0	V	291.0	-6.6	74.00	30.01
1593.300000	---	33.37	150.0	V	303.0	-6.2	54.00	20.63
1593.300000	41.58	---	150.0	V	303.0	-6.2	74.00	32.42
3228.700000	48.84	---	200.0	V	265.0	-1.9	74.00	25.16
3228.700000	---	41.86	200.0	V	265.0	-1.9	54.00	12.14
4844.000000	50.67	---	150.0	H	224.0	0.6	74.00	23.33
4844.000000	---	42.98	150.0	H	224.0	0.6	54.00	11.02
9000.200000	---	42.64	150.0	V	351.0	9.5	54.00	11.36
9000.200000	50.67	---	150.0	V	351.0	9.5	74.00	23.33
13731.300000	---	43.32	200.0	V	278.0	10.0	54.00	10.68
13731.300000	51.76	---	200.0	V	278.0	10.0	74.00	22.24
17620.900000	56.57	---	150.0	V	209.0	14.2	74.00	17.43
17620.900000	---	48.24	150.0	V	209.0	14.2	54.00	5.76

Middle Channel: 2437MHz

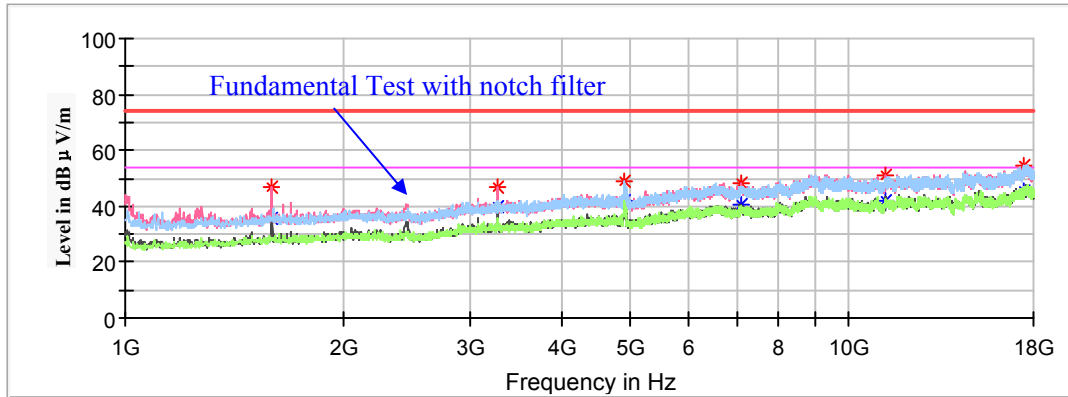
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1591.600000	42.30	---	150.0	V	288.0	-6.2	74.00	31.70
1591.600000	---	32.83	150.0	V	288.0	-6.2	54.00	21.17
3249.100000	---	40.63	200.0	V	250.0	-1.9	54.00	13.37
3249.100000	48.94	---	200.0	V	250.0	-1.9	74.00	25.06
4874.000000	50.04	---	150.0	H	190.0	0.5	74.00	23.96
4874.000000	---	41.60	150.0	H	190.0	0.5	54.00	12.40
7160.800000	---	39.20	200.0	V	106.0	5.4	54.00	14.80
7160.800000	48.71	---	200.0	V	106.0	5.4	74.00	25.29
11269.700000	---	42.06	150.0	H	139.0	10.2	54.00	11.94
11269.700000	52.01	---	150.0	H	139.0	10.2	74.00	21.99
17420.300000	---	45.14	200.0	V	326.0	14.2	54.00	8.86
17420.300000	55.96	---	200.0	V	326.0	14.2	74.00	18.04

High Channel: 2452MHz

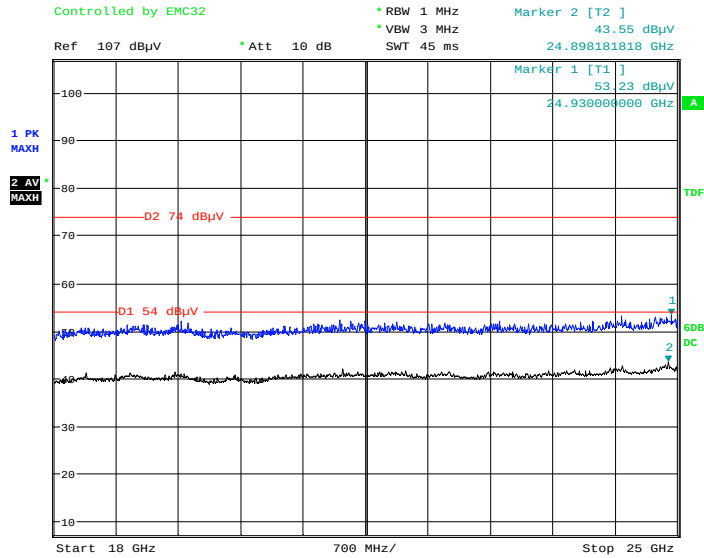
Full Spectrum



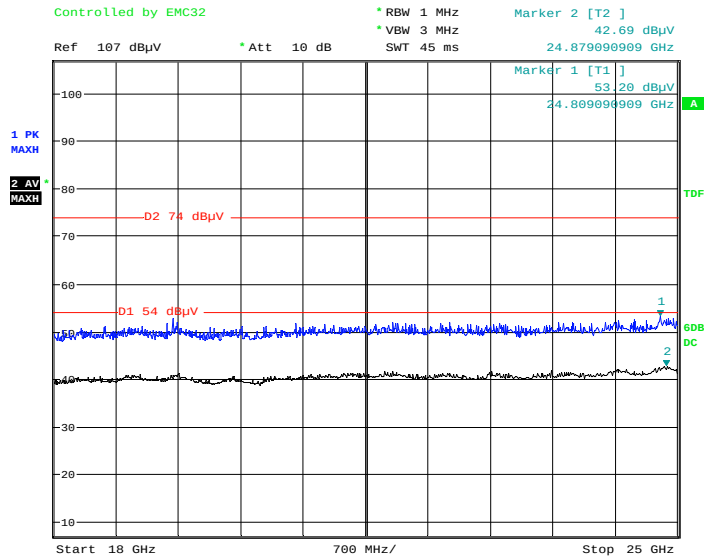
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1593.300000	46.73	---	150.0	V	319.0	-6.2	74.00	27.27
1593.300000	---	35.99	150.0	V	319.0	-6.2	54.00	18.01
3267.800000	---	39.92	200.0	V	230.0	-1.9	54.00	14.08
3267.800000	47.04	---	200.0	V	230.0	-1.9	74.00	26.96
4904.000000	48.96	---	200.0	H	211.0	0.4	74.00	25.04
4904.000000	---	41.69	200.0	H	211.0	0.4	54.00	12.31
7077.500000	---	40.78	200.0	V	255.0	5.6	54.00	13.22
7077.500000	48.04	---	200.0	V	255.0	5.6	74.00	25.96
11208.500000	---	42.17	150.0	V	268.0	10.1	54.00	11.83
11208.500000	50.93	---	150.0	V	268.0	10.1	74.00	23.07
17503.600000	---	45.12	150.0	H	108.0	14.4	54.00	8.88
17503.600000	54.79	---	150.0	H	108.0	14.4	74.00	19.21

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

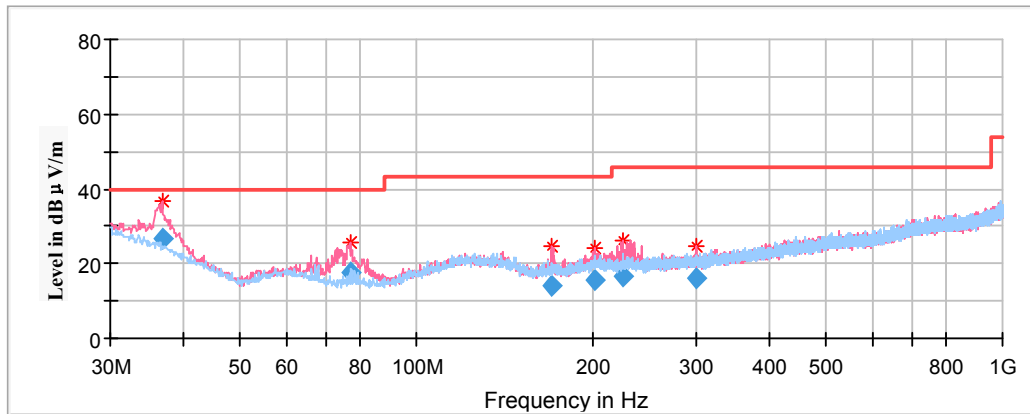
Date: 19.JUL.2021 22:53:52

Vertical

Date: 19.JUL.2021 23:00:08

Series Model: 9290030092**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
36.793900	26.63	100.0	V	217.0	-8.5	40.00	13.37
76.926750	17.51	100.0	V	136.0	-17.1	40.00	22.49
170.658300	14.19	100.0	V	235.0	-13.7	43.50	29.31
201.692100	15.77	199.0	V	42.0	-12.0	43.50	27.73
224.604500	16.66	199.0	V	129.0	-12.0	46.00	29.34
301.119800	16.28	199.0	V	291.0	-10.8	46.00	29.72

1GHz-18GHz:**802.11b Mode:**

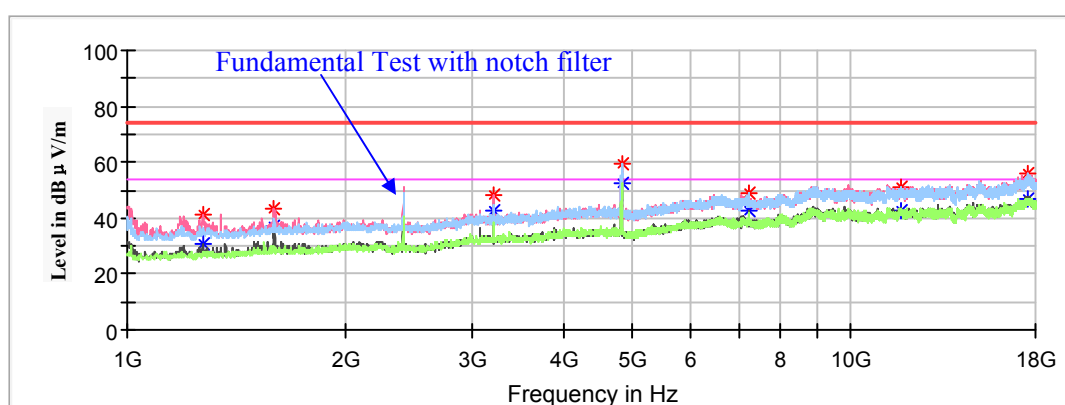
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

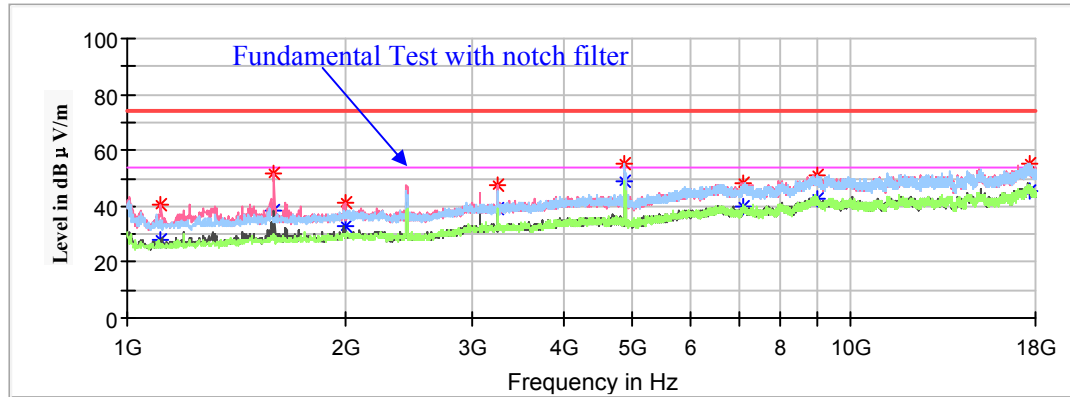
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1270.300000	---	30.70	150.0	V	25.0	-7.7	54.00	23.30
1270.300000	41.13	---	150.0	V	25.0	-7.7	74.00	32.87
1595.000000	43.58	---	200.0	V	263.0	-6.2	74.00	30.42
1595.000000	---	36.93	200.0	V	263.0	-6.2	54.00	17.07
3215.100000	---	42.78	200.0	V	225.0	-1.9	54.00	11.22
3215.100000	48.49	---	200.0	V	225.0	-1.9	74.00	25.51
4824.000000	---	51.94	150.0	H	201.0	0.6	54.00	2.06
4824.000000	59.11	---	150.0	H	201.0	0.6	74.00	14.89
7236.000000	48.71	---	200.0	H	76.0	5.3	74.00	25.29
7236.000000	---	42.31	200.0	H	76.0	5.3	54.00	11.69
11727.000000	51.17	---	200.0	H	5.0	10.3	74.00	22.83
11727.000000	---	42.94	200.0	H	5.0	10.3	54.00	11.06
17578.400000	---	47.00	200.0	H	25.0	14.3	54.00	7.00
17578.400000	55.64	---	200.0	H	25.0	14.3	74.00	18.36

Middle Channel: 2437MHz

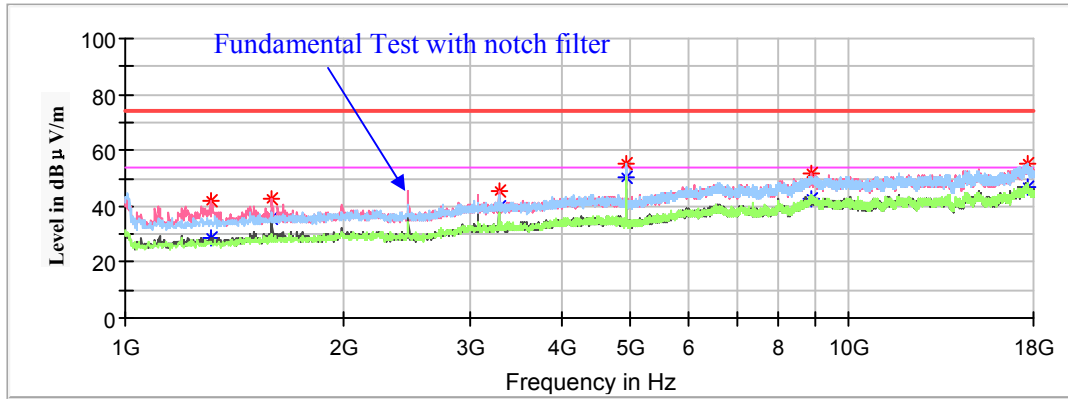
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1113.900000	---	28.14	150.0	V	229.0	-8.5	54.00	25.86
1113.900000	40.47	---	150.0	V	229.0	-8.5	74.00	33.53
1596.700000	51.50	---	150.0	V	242.0	-6.2	74.00	22.50
1596.700000	---	38.36	150.0	V	242.0	-6.2	54.00	15.64
1997.900000	---	32.92	200.0	V	144.0	-4.9	54.00	21.08
1997.900000	40.97	---	200.0	V	144.0	-4.9	74.00	33.03
3249.100000	47.46	---	200.0	V	233.0	-1.9	74.00	26.54
3249.100000	---	39.37	200.0	V	233.0	-1.9	54.00	14.63
4874.000000	55.28	---	200.0	H	211.0	0.5	74.00	18.72
4874.000000	---	48.97	200.0	H	199.0	0.5	54.00	5.03
7082.600000	48.14	---	150.0	V	255.0	5.6	74.00	25.86
7082.600000	---	39.89	150.0	V	255.0	5.6	54.00	14.11
8962.800000	---	42.71	150.0	H	195.0	9.4	54.00	11.29
8962.800000	50.92	---	150.0	H	220.0	9.4	74.00	23.08
17629.400000	---	45.67	200.0	V	0.0	14.1	54.00	8.33
17629.400000	55.56	---	200.0	V	0.0	14.1	74.00	18.44

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1311.100000	42.02	---	200.0	V	142.0	-7.5	74.00	31.98
1311.100000	---	28.81	200.0	V	142.0	-7.5	54.00	25.19
1593.300000	42.77	---	200.0	V	244.0	-6.2	74.00	31.23
1593.300000	---	35.83	200.0	V	244.0	-6.2	54.00	18.17
3281.400000	45.69	---	150.0	V	39.0	-1.9	74.00	28.31
3281.400000	---	39.97	150.0	V	39.0	-1.9	54.00	14.03
4924.000000	---	50.28	200.0	H	199.0	0.4	54.00	3.72
4924.000000	55.41	---	200.0	H	199.0	0.4	74.00	18.59
8862.500000	---	42.80	200.0	V	36.0	8.9	54.00	11.20
8862.500000	51.97	---	200.0	V	36.0	8.9	74.00	22.03
17711.000000	---	47.00	200.0	H	122.0	13.9	54.00	7.00
17711.000000	55.45	---	200.0	H	122.0	13.9	74.00	18.55

802.11g Mode:

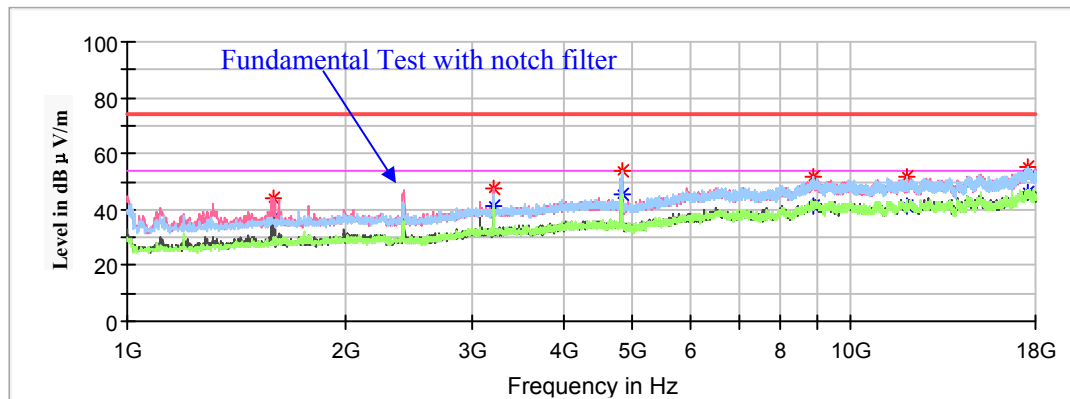
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

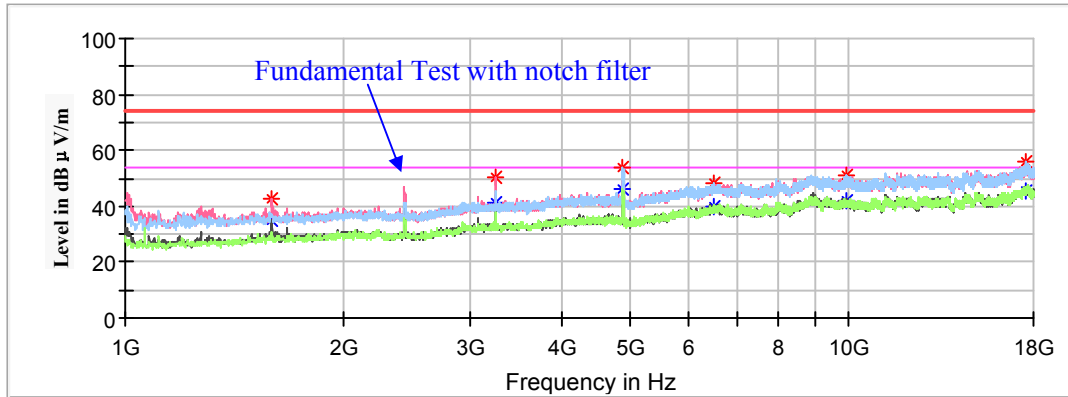
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1593.300000	44.09	---	150.0	V	266.0	-6.2	74.00	29.91
1593.300000	---	36.82	150.0	V	266.0	-6.2	54.00	17.18
3215.100000	47.80	---	150.0	V	332.0	-1.9	74.00	26.20
3215.100000	---	41.20	150.0	V	332.0	-1.9	54.00	12.80
4824.000000	54.00	---	200.0	H	270.0	0.6	74.00	20.00
4824.000000	---	45.55	200.0	H	270.0	0.6	54.00	8.45
8860.800000	51.59	---	200.0	H	71.0	8.9	74.00	22.41
8860.800000	---	41.47	200.0	H	71.0	8.9	54.00	12.53
11968.400000	51.43	---	150.0	H	0.0	10.0	74.00	22.57
11968.400000	---	41.05	150.0	H	0.0	10.0	54.00	12.95
17605.600000	---	45.95	200.0	V	359.0	14.2	54.00	8.05
17605.600000	54.94	---	200.0	V	359.0	14.2	74.00	19.06

Middle Channel: 2437MHz

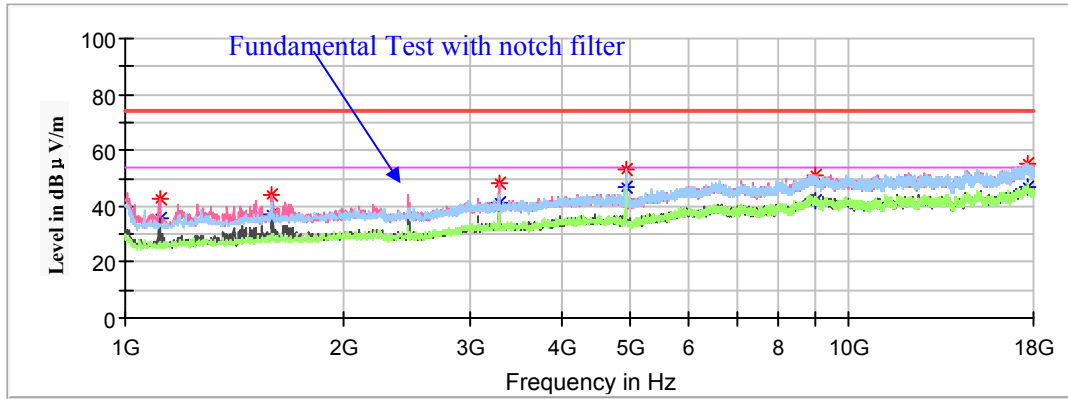
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1591.600000	---	34.66	200.0	V	314.0	-6.2	54.00	19.34
1591.600000	42.48	---	200.0	V	314.0	-6.2	74.00	31.52
3249.100000	---	41.36	200.0	V	225.0	-1.9	54.00	12.64
3249.100000	50.10	---	200.0	V	225.0	-1.9	74.00	23.90
4874.000000	---	46.42	150.0	H	195.0	0.5	54.00	7.58
4874.000000	53.59	---	150.0	H	195.0	0.5	74.00	20.41
6509.700000	---	39.76	200.0	V	263.0	5.4	54.00	14.24
6509.700000	48.21	---	200.0	V	263.0	5.4	74.00	25.79
9942.000000	---	42.09	150.0	H	0.0	8.8	54.00	11.91
9942.000000	51.22	---	150.0	H	0.0	8.8	74.00	22.78
17529.100000	---	45.78	150.0	H	284.0	14.4	54.00	8.22
17529.100000	55.74	---	150.0	H	284.0	14.4	74.00	18.26

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1115.600000	---	35.84	150.0	V	294.0	-8.5	54.00	18.16
1115.600000	42.53	---	150.0	V	294.0	-8.5	74.00	31.47
1596.700000	---	36.95	150.0	V	86.0	-6.2	54.00	17.05
1596.700000	43.85	---	150.0	V	86.0	-6.2	74.00	30.15
3281.400000	48.05	---	200.0	V	285.0	-1.9	74.00	25.95
3281.400000	---	41.57	200.0	V	285.0	-1.9	54.00	12.43
4924.000000	52.89	---	150.0	H	298.0	0.4	74.00	21.11
4924.000000	---	46.90	150.0	H	298.0	0.4	54.00	7.10
8993.400000	51.29	---	200.0	V	247.0	9.5	74.00	22.71
8993.400000	---	42.26	200.0	V	247.0	9.5	54.00	11.74
17637.900000	---	46.77	150.0	V	124.0	14.1	54.00	7.23
17637.900000	55.29	---	150.0	V	124.0	14.1	74.00	18.71

802.11n-HT20 Mode:

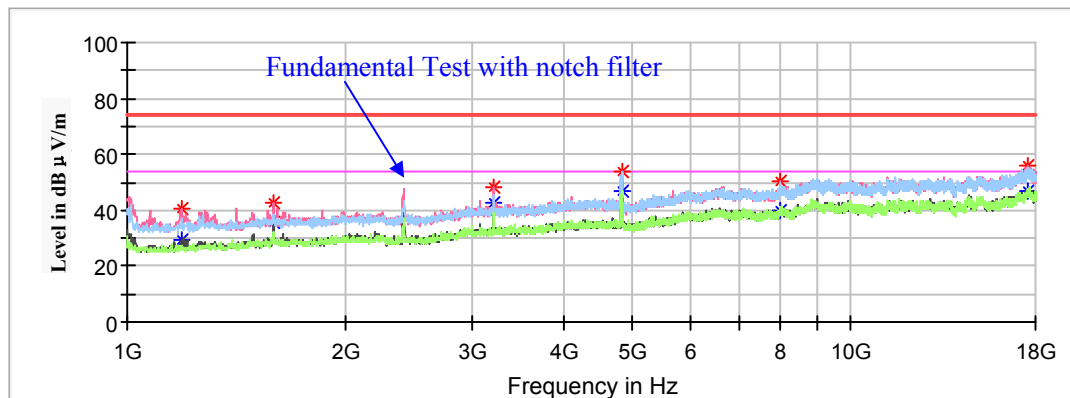
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

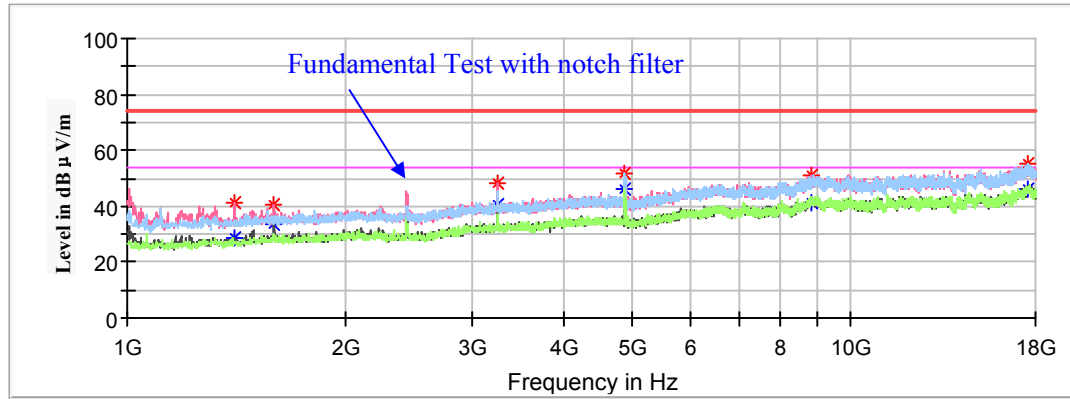
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1187.000000	---	29.43	200.0	V	233.0	-8.1	54.00	24.57
1187.000000	40.55	---	200.0	V	233.0	-8.1	74.00	33.45
1591.600000	42.77	---	200.0	V	271.0	-6.2	74.00	31.23
1591.600000	---	35.53	200.0	V	271.0	-6.2	54.00	18.47
3215.100000	---	42.46	200.0	V	195.0	-1.9	54.00	11.54
3215.100000	47.92	---	200.0	V	195.0	-1.9	74.00	26.08
4824.000000	---	47.07	200.0	H	203.0	0.6	54.00	6.93
4824.000000	53.84	---	200.0	H	203.0	0.6	74.00	20.16
8005.700000	---	39.89	150.0	H	340.0	6.1	54.00	14.11
8005.700000	50.44	---	150.0	H	340.0	6.1	74.00	23.56
17603.900000	---	46.58	150.0	H	350.0	14.2	54.00	7.42
17603.900000	55.74	---	150.0	H	350.0	14.2	74.00	18.26

Middle Channel: 2437MHz

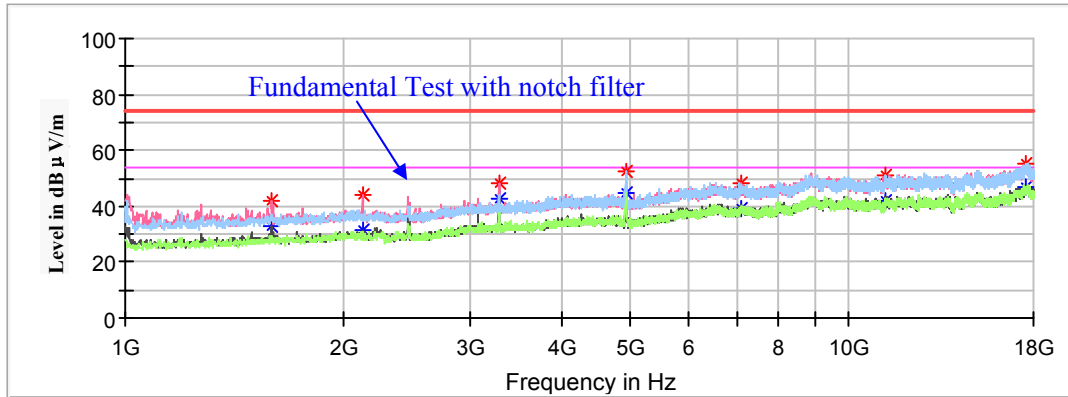
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1406.300000	---	29.00	150.0	V	280.0	-7.0	54.00	25.00
1406.300000	41.27	---	150.0	V	280.0	-7.0	74.00	32.73
1595.000000	40.49	---	150.0	V	280.0	-6.2	74.00	33.51
1595.000000	---	33.79	150.0	V	268.0	-6.2	54.00	20.21
3249.100000	---	40.23	150.0	V	255.0	-1.9	54.00	13.77
3249.100000	48.23	---	150.0	V	255.0	-1.9	74.00	25.77
4874.000000	---	46.38	150.0	H	202.0	0.5	54.00	7.62
4874.000000	52.08	---	150.0	H	202.0	0.5	74.00	21.92
8811.500000	---	41.57	200.0	H	345.0	8.7	54.00	12.43
8811.500000	51.15	---	200.0	H	345.0	8.7	74.00	22.85
17612.400000	---	46.34	200.0	V	217.0	14.2	54.00	7.66
17612.400000	55.23	---	200.0	V	217.0	14.2	74.00	18.77

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1595.000000	41.81	---	150.0	V	324.0	-6.2	74.00	32.19
1595.000000	---	32.54	150.0	V	324.0	-6.2	54.00	21.46
2125.400000	---	31.70	200.0	V	79.0	-4.7	54.00	22.30
2125.400000	43.98	---	200.0	V	79.0	-4.7	74.00	30.02
3281.400000	---	42.59	150.0	V	223.0	-1.9	54.00	11.41
3281.400000	48.40	---	150.0	V	223.0	-1.9	74.00	25.60
4924.000000	---	45.02	150.0	H	203.0	0.4	54.00	8.98
4924.000000	52.10	---	150.0	H	203.0	0.4	74.00	21.90
7113.200000	---	39.37	200.0	V	172.0	5.5	54.00	14.63
7113.200000	48.56	---	200.0	V	172.0	5.5	74.00	25.44
11247.600000	---	41.72	150.0	H	5.0	10.1	54.00	12.28
11247.600000	51.17	---	150.0	H	5.0	10.1	74.00	22.83
17552.900000	---	46.78	200.0	V	106.0	14.3	54.00	7.22
17552.900000	55.03	---	200.0	V	106.0	14.3	74.00	18.97

802.11n-HT40 Mode:

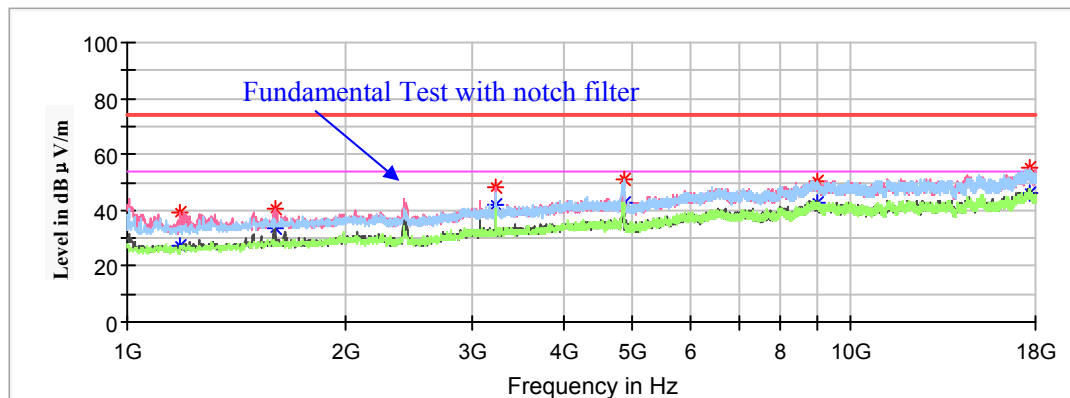
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

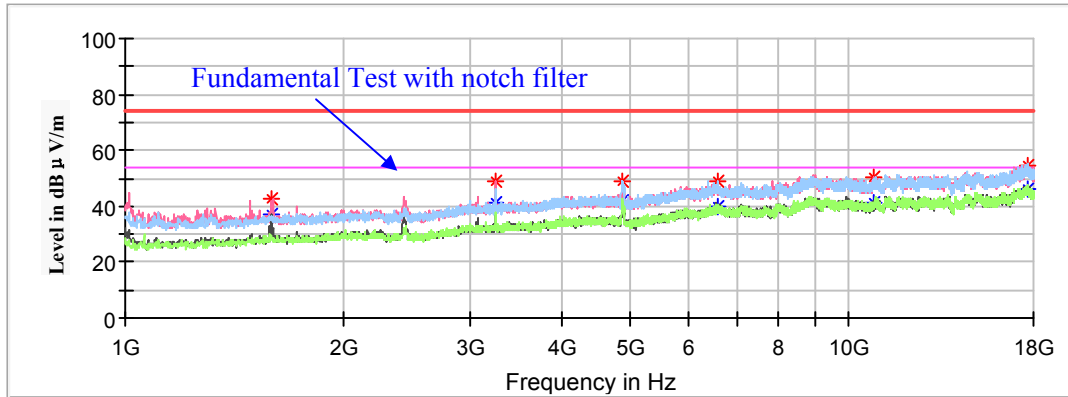
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1183.600000	39.00	---	150.0	V	208.0	-8.1	74.00	35.00
1183.600000	---	27.01	150.0	V	208.0	-8.1	54.00	26.99
1598.400000	---	33.47	150.0	V	272.0	-6.2	54.00	20.53
1598.400000	40.87	---	150.0	V	272.0	-6.2	74.00	33.13
3228.700000	---	41.96	200.0	V	272.0	-1.9	54.00	12.04
3228.700000	48.20	---	200.0	V	272.0	-1.9	74.00	25.80
4844.000000	---	42.94	150.0	H	198.0	0.6	54.00	11.06
4844.000000	51.09	---	150.0	H	198.0	0.6	74.00	22.91
8964.500000	---	42.84	150.0	V	124.0	9.4	54.00	11.16
8964.500000	50.59	---	150.0	V	124.0	9.4	74.00	23.41
17678.700000	---	46.37	200.0	H	291.0	14.0	54.00	7.63
17678.700000	55.10	---	200.0	H	291.0	14.0	74.00	18.90

Middle Channel: 2437MHz

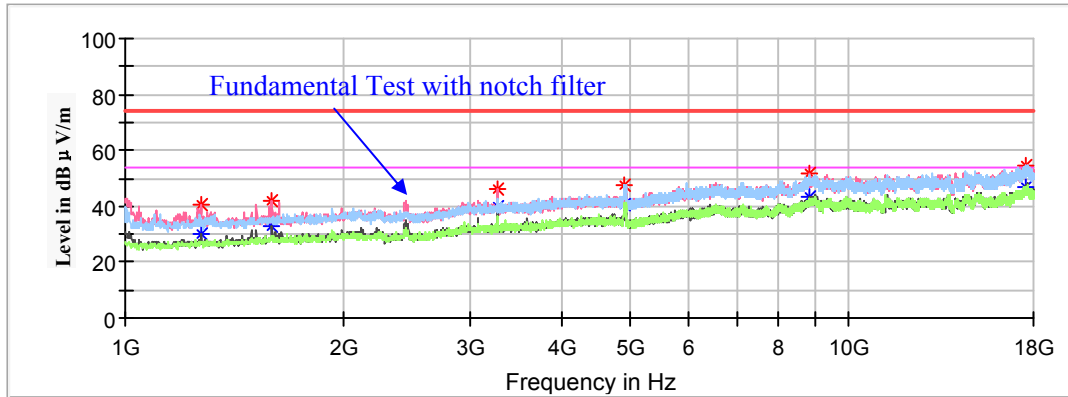
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1594.600000	---	37.16	150.0	V	289.0	-6.2	54.00	16.84
1594.600000	42.53	---	150.0	V	289.0	-6.2	74.00	31.47
3249.100000	48.76	---	200.0	V	238.0	-1.9	74.00	25.24
3249.100000	---	41.14	200.0	V	238.0	-1.9	54.00	12.86
4874.000000	---	42.21	150.0	H	203.0	0.5	54.00	11.79
4874.000000	49.17	---	150.0	H	203.0	0.5	74.00	24.83
6606.600000	---	39.62	150.0	H	358.0	5.5	54.00	14.38
6606.600000	48.93	---	150.0	H	358.0	5.5	74.00	25.07
10839.600000	---	41.21	200.0	H	74.0	9.3	54.00	12.79
10839.600000	50.22	---	200.0	H	74.0	9.3	74.00	23.78
17641.300000	---	46.09	200.0	H	5.0	14.1	54.00	7.91
17641.300000	54.52	---	200.0	H	5.0	14.1	74.00	19.48

High Channel: 2452MHz

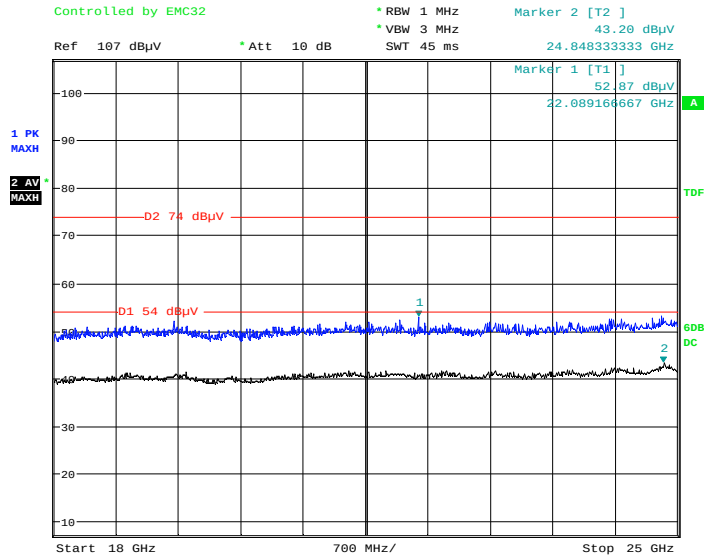
Full Spectrum



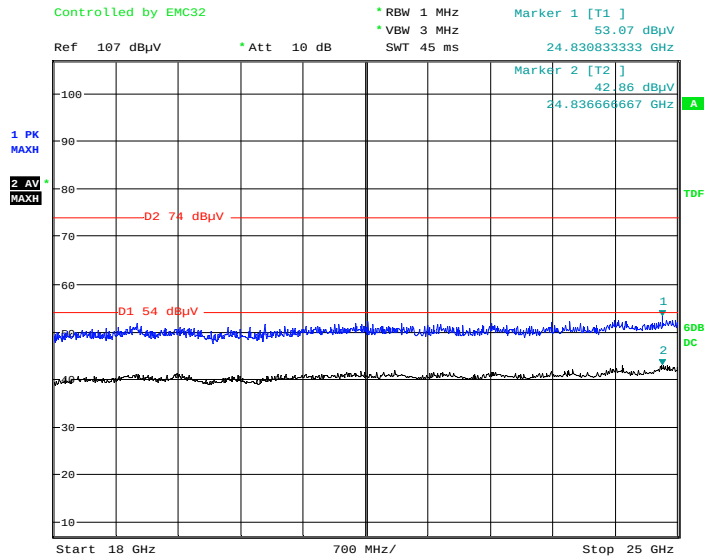
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1270.300000	40.60	---	150.0	V	135.0	-7.7	74.00	33.40
1270.300000	---	30.07	150.0	V	351.0	-7.7	54.00	23.93
1593.300000	---	32.98	150.0	V	277.0	-6.2	54.00	21.02
1593.300000	41.88	---	150.0	V	277.0	-6.2	74.00	32.12
3267.800000	---	39.92	200.0	V	227.0	-1.9	54.00	14.08
3267.800000	46.45	---	200.0	V	227.0	-1.9	74.00	27.55
4904.000000	---	40.83	150.0	H	216.0	0.4	54.00	13.17
4904.000000	47.81	---	150.0	H	216.0	0.4	74.00	26.19
8847.200000	---	43.13	200.0	V	0.0	8.9	54.00	10.87
8847.200000	51.44	---	200.0	V	0.0	8.9	74.00	22.56
17561.400000	54.74	---	150.0	V	175.0	14.3	74.00	19.26
17561.400000	---	47.08	150.0	V	175.0	14.3	54.00	6.92

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

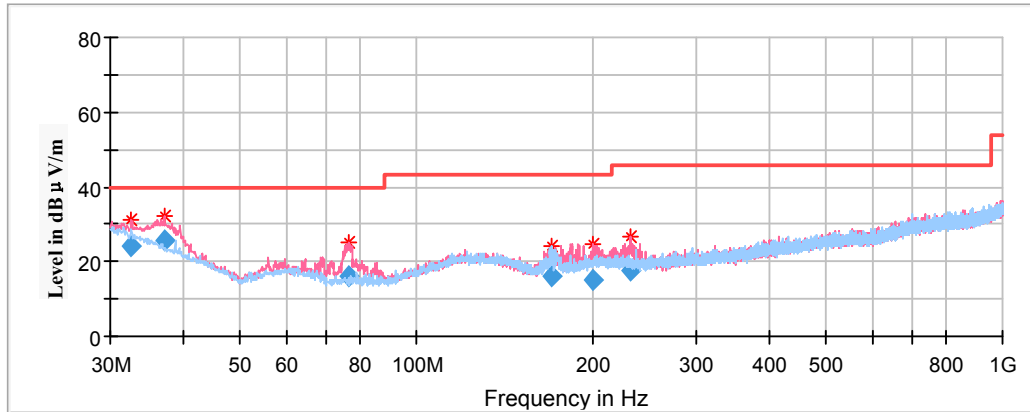
Date: 19.JUL.2021 23:06:36

Vertical

Date: 19.JUL.2021 23:10:58

Series Model: 9290030093**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
32.542150	24.31	100.0	V	175.0	-5.2	40.00	15.69
37.036500	25.91	100.0	V	64.0	-7.9	40.00	14.09
76.805300	15.88	100.0	V	236.0	-17.1	40.00	24.12
170.407000	15.91	200.0	H	97.0	-13.8	43.50	27.59
200.357450	15.00	100.0	V	307.0	-12.0	43.50	28.50
231.157950	17.76	100.0	V	92.0	-12.0	46.00	28.24

1GHz-18GHz:**802.11b Mode:**

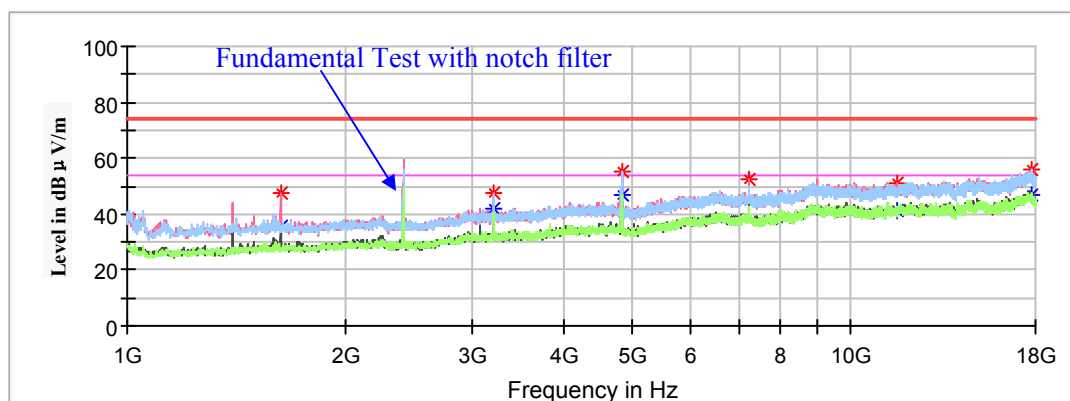
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dB μ V/m) = Corrected Factor (dB/m) + Reading (dB μ V)
 Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Low Channel: 2412MHz

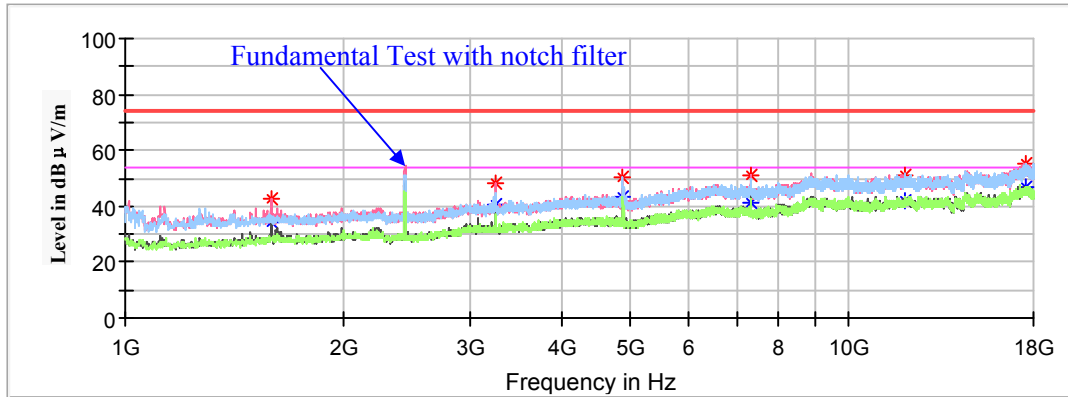
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1627.300000	---	35.56	200.0	V	282.0	-6.1	54.00	18.44
1627.300000	47.90	---	200.0	V	282.0	-6.1	74.00	26.10
3215.100000	---	42.16	150.0	V	320.0	-1.9	54.00	11.84
3215.100000	47.29	---	150.0	V	320.0	-1.9	74.00	26.71
4824.000000	---	47.09	200.0	V	256.0	0.6	54.00	6.91
4824.000000	55.37	---	200.0	V	256.0	0.6	74.00	18.63
7236.000000	---	44.44	150.0	V	15.0	5.3	54.00	9.56
7236.000000	52.36	---	150.0	V	15.0	5.3	74.00	21.64
11562.100000	---	41.20	150.0	H	4.0	10.5	54.00	12.80
11562.100000	51.08	---	150.0	H	4.0	10.5	74.00	22.92
17765.400000	---	46.71	150.0	H	85.0	13.8	54.00	7.29
17765.400000	55.75	---	150.0	H	85.0	13.8	74.00	18.25

Middle Channel: 2437MHz

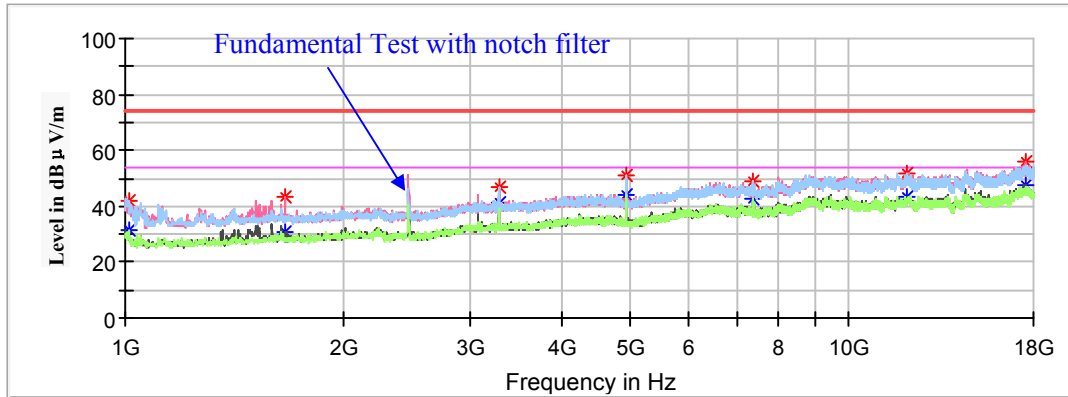
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1591.600000	42.32	---	200.0	V	276.0	-6.2	74.00	31.68
1591.600000	---	33.93	200.0	V	276.0	-6.2	54.00	20.07
3249.100000	---	40.55	150.0	V	302.0	-1.9	54.00	13.45
3249.100000	48.26	---	150.0	V	302.0	-1.9	74.00	25.74
4874.000000	50.66	---	150.0	H	4.0	0.5	74.00	23.34
4874.000000	---	43.70	150.0	H	4.0	0.5	54.00	10.30
7311.000000	---	41.60	200.0	V	175.0	5.1	54.00	12.40
7311.000000	51.15	---	200.0	V	175.0	5.1	74.00	22.85
11944.600000	51.31	---	150.0	H	10.0	10.1	74.00	22.69
11944.600000	---	42.16	150.0	H	10.0	10.1	54.00	11.84
17537.600000	---	46.93	200.0	H	292.0	14.4	54.00	7.07
17537.600000	54.96	---	200.0	H	292.0	14.4	74.00	19.04

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1010.200000	41.74	---	150.0	V	117.0	-9.0	74.00	32.26
1010.200000	---	31.17	150.0	V	117.0	-9.0	54.00	22.83
1664.700000	43.52	---	200.0	V	297.0	-6.0	74.00	30.48
1664.700000	---	31.08	200.0	V	297.0	-6.0	54.00	22.92
3281.400000	---	41.37	200.0	V	217.0	-1.9	54.00	12.63
3281.400000	46.99	---	200.0	V	217.0	-1.9	74.00	27.01
4924.000000	50.84	---	200.0	H	236.0	0.4	74.00	23.16
4924.000000	---	44.13	200.0	H	236.0	0.4	54.00	9.87
7386.000000	49.11	---	150.0	H	324.0	5.0	74.00	24.89
7386.000000	---	42.89	150.0	H	324.0	5.0	54.00	11.11
12056.800000	---	43.15	150.0	V	286.0	10.1	54.00	10.85
12056.800000	51.65	---	150.0	V	286.0	10.1	74.00	22.35
17505.300000	55.67	---	150.0	V	130.0	14.4	74.00	18.33
17580.100000	---	47.26	150.0	V	130.0	14.4	54.00	6.74

802.11g Mode:

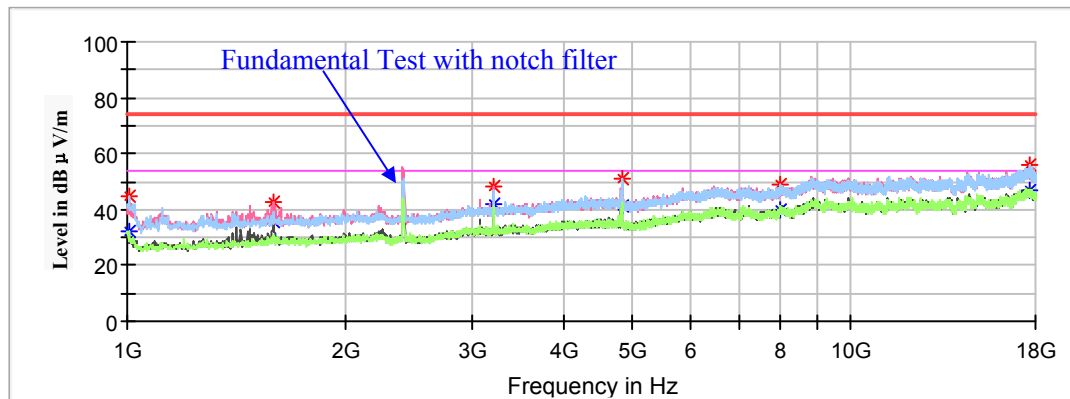
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

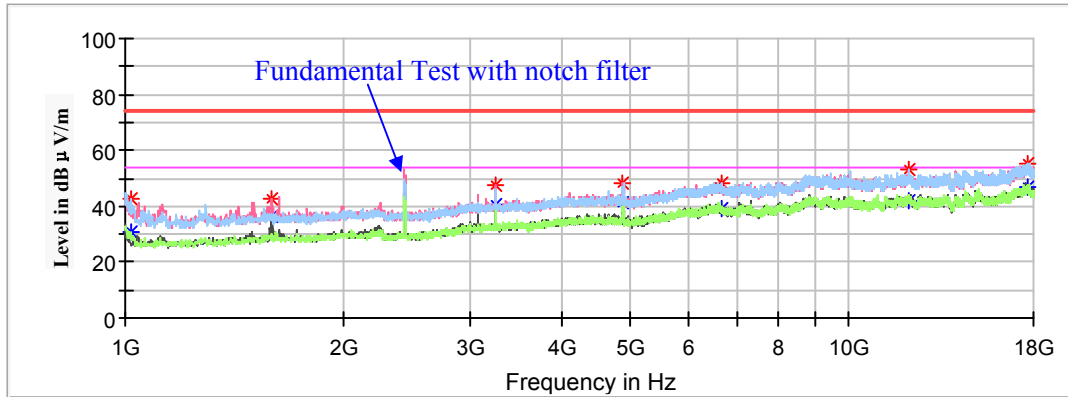
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1005.100000	---	32.02	200.0	H	224.0	-9.0	54.00	21.98
1005.100000	44.43	---	200.0	H	224.0	-9.0	74.00	29.57
1593.300000	---	35.83	150.0	V	245.0	-6.2	54.00	18.17
1593.300000	42.86	---	150.0	V	245.0	-6.2	74.00	31.14
3215.100000	---	42.18	150.0	V	296.0	-1.9	54.00	11.82
3215.100000	48.11	---	150.0	V	296.0	-1.9	74.00	25.89
4824.000000	51.16	---	150.0	H	1.0	0.6	74.00	22.84
4824.000000	---	41.52	150.0	H	1.0	0.6	54.00	12.48
8002.300000	---	40.09	150.0	V	50.0	6.1	54.00	13.91
8002.300000	48.69	---	150.0	V	50.0	6.1	74.00	25.31
17685.500000	---	46.69	150.0	V	334.0	14.0	54.00	7.31
17685.500000	55.66	---	150.0	V	334.0	14.0	74.00	18.34

Middle Channel: 2437MHz

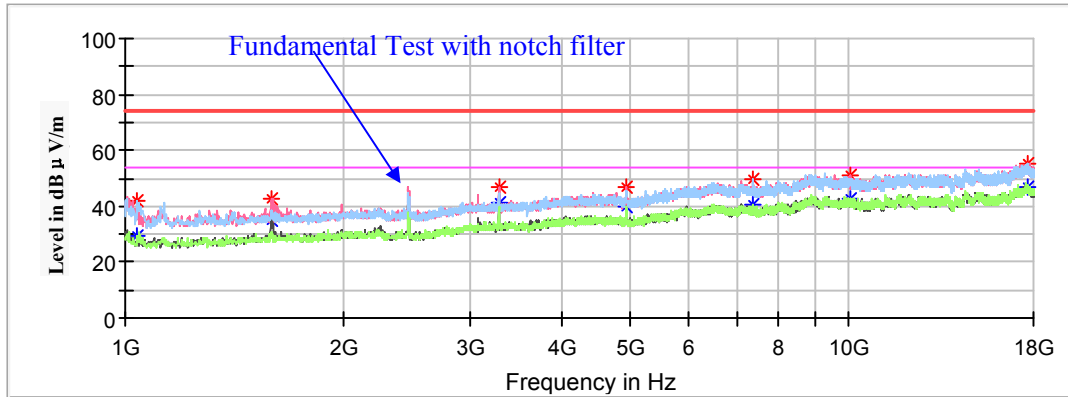
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1017.000000	---	30.90	200.0	H	300.0	-9.0	54.00	23.10
1017.000000	42.58	---	200.0	H	300.0	-9.0	74.00	31.42
1593.300000	---	36.03	150.0	V	287.0	-6.2	54.00	17.97
1593.300000	42.95	---	150.0	V	287.0	-6.2	74.00	31.05
3249.100000	---	40.28	150.0	V	325.0	-1.9	54.00	13.72
3249.100000	47.74	---	150.0	V	325.0	-1.9	74.00	26.26
4874.000000	48.20	---	200.0	V	244.0	0.5	74.00	25.80
4874.000000	---	40.96	200.0	V	244.0	0.5	54.00	13.04
6672.900000	---	39.49	200.0	V	0.0	5.5	54.00	14.51
6672.900000	48.34	---	200.0	V	0.0	5.5	74.00	25.66
12112.900000	---	42.15	150.0	H	39.0	10.1	54.00	11.85
12112.900000	53.03	---	150.0	H	39.0	10.1	74.00	20.97
17648.100000	---	46.60	150.0	H	14.0	14.1	54.00	7.40
17648.100000	55.34	---	150.0	H	14.0	14.1	74.00	18.66

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1039.100000	---	29.07	200.0	H	224.0	-8.8	54.00	24.93
1039.100000	42.24	---	200.0	H	224.0	-8.8	74.00	31.76
1596.700000	---	35.20	150.0	V	300.0	-6.2	54.00	18.80
1596.700000	42.34	---	150.0	V	300.0	-6.2	74.00	31.66
3281.400000	---	41.39	150.0	V	198.0	-1.9	54.00	12.61
3281.400000	47.07	---	150.0	V	198.0	-1.9	74.00	26.93
4924.000000	46.82	---	150.0	V	236.0	0.4	74.00	27.18
4924.000000	---	39.64	150.0	V	236.0	0.4	54.00	14.36
7386.000000	---	40.68	200.0	H	313.0	5.0	54.00	13.32
7386.000000	49.99	---	200.0	H	313.0	5.0	74.00	24.01
10027.000000	---	42.73	200.0	V	217.0	8.7	54.00	11.27
10027.000000	51.23	---	200.0	V	230.0	8.7	74.00	22.77
17637.900000	---	46.79	200.0	H	7.0	14.1	54.00	7.21
17637.900000	55.58	---	200.0	H	7.0	14.1	74.00	18.42

802.11n-HT20 Mode:

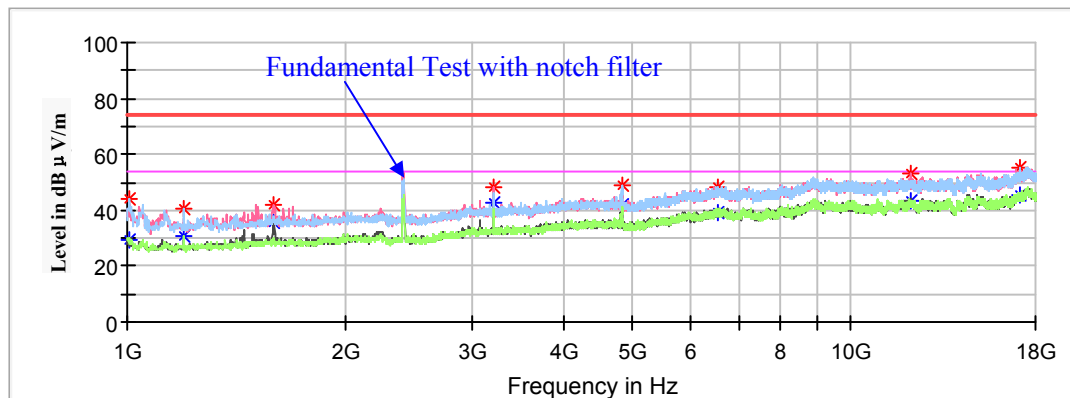
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

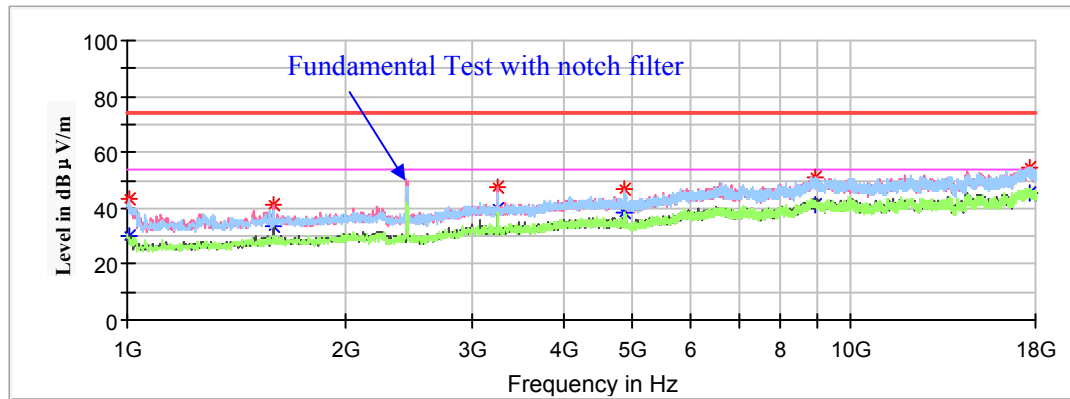
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1006.800000	---	29.19	200.0	H	207.0	-9.0	54.00	24.81
1006.800000	44.01	---	200.0	H	207.0	-9.0	74.00	29.99
1198.900000	---	30.86	200.0	H	270.0	-8.0	54.00	23.14
1198.900000	40.36	---	200.0	H	270.0	-8.0	74.00	33.64
1591.600000	---	35.84	200.0	V	256.0	-6.2	54.00	18.16
1592.600000	42.23	---	200.0	V	256.0	-6.2	74.00	31.77
3215.100000	48.00	---	200.0	V	212.0	-1.9	74.00	26.00
3215.100000	---	42.55	200.0	V	212.0	-1.9	54.00	11.45
4824.000000	48.76	---	150.0	H	45.0	0.6	74.00	25.24
4824.000000	---	42.17	150.0	H	45.0	0.6	54.00	11.83
6553.900000	---	39.47	150.0	V	308.0	5.4	54.00	14.53
6553.900000	48.59	---	150.0	V	308.0	5.4	74.00	25.41
12078.900000	---	43.31	200.0	V	335.0	10.1	54.00	10.69
12078.900000	52.86	---	200.0	V	335.0	10.1	74.00	21.14
17095.600000	---	45.42	200.0	H	64.0	13.2	54.00	8.58
17095.600000	55.18	---	200.0	H	64.0	13.2	74.00	18.82

Middle Channel: 2437MHz

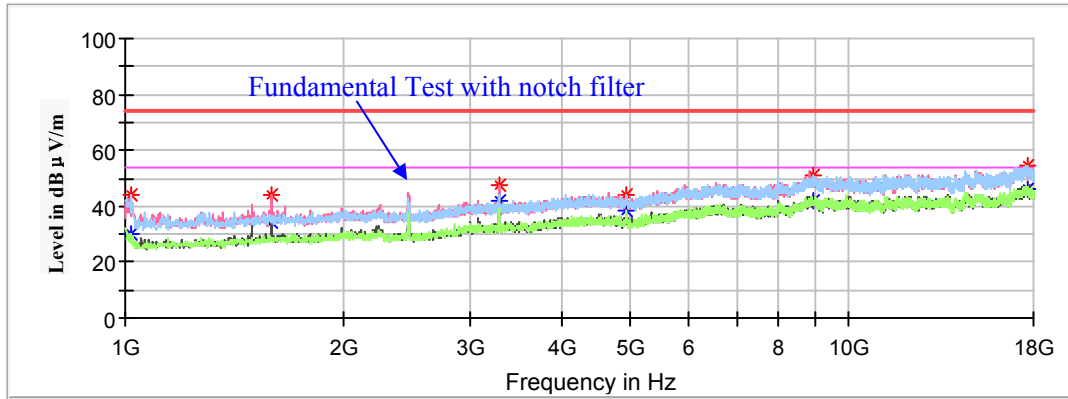
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1005.100000	43.37	---	200.0	H	200.0	-9.0	74.00	30.63
1005.100000	---	30.07	200.0	H	200.0	-9.0	54.00	23.93
1595.000000	---	33.87	150.0	V	232.0	-6.2	54.00	20.13
1595.000000	41.26	---	150.0	V	232.0	-6.2	74.00	32.74
3249.100000	---	40.07	150.0	V	301.0	-1.9	54.00	13.93
3249.100000	47.71	---	150.0	V	301.0	-1.9	74.00	26.29
4874.000000	47.01	---	200.0	V	245.0	0.5	74.00	26.99
4874.000000	---	38.50	200.0	V	232.0	0.5	54.00	15.50
8925.400000	---	41.42	200.0	H	187.0	9.2	54.00	12.58
8925.400000	51.40	---	200.0	H	187.0	9.2	74.00	22.60
17688.900000	---	45.54	200.0	H	162.0	14.0	54.00	8.46
17688.900000	54.81	---	200.0	H	162.0	14.0	74.00	19.19

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1018.700000	---	30.34	200.0	H	122.0	-9.0	54.00	23.66
1018.700000	43.72	---	200.0	H	122.0	-9.0	74.00	30.28
1593.300000	---	34.35	150.0	V	271.0	-6.2	54.00	19.65
1595.000000	44.40	---	150.0	V	271.0	-6.2	74.00	29.60
3281.400000	---	41.61	200.0	V	309.0	-1.9	54.00	12.39
3281.400000	47.70	---	200.0	V	309.0	-1.9	74.00	26.30
4924.000000	44.09	---	150.0	V	220.0	0.4	74.00	29.91
4924.000000	---	38.62	150.0	V	220.0	0.4	54.00	15.38
8937.300000	---	41.88	150.0	H	122.0	9.3	54.00	12.12
8937.300000	51.39	---	150.0	H	122.0	9.3	74.00	22.61
17665.100000	---	46.04	150.0	V	0.0	14.1	54.00	7.96
17665.100000	54.61	---	150.0	V	0.0	14.1	74.00	19.39

802.11n-HT40 Mode:

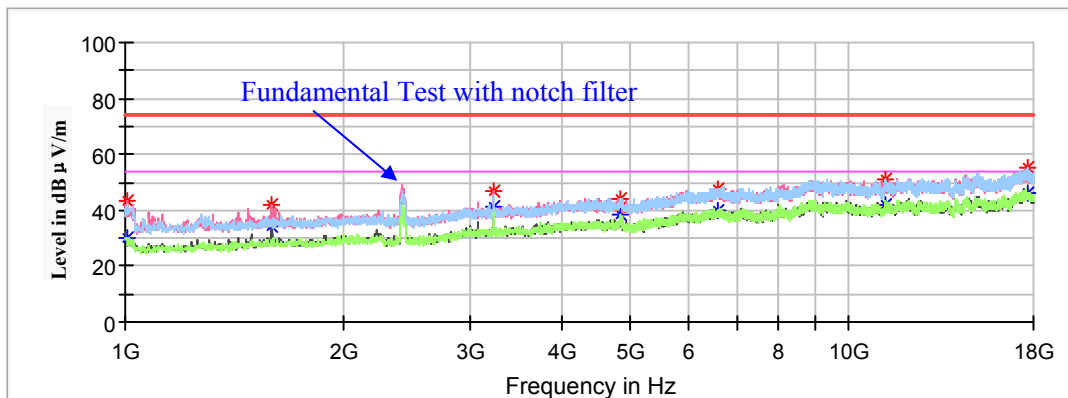
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2422MHz

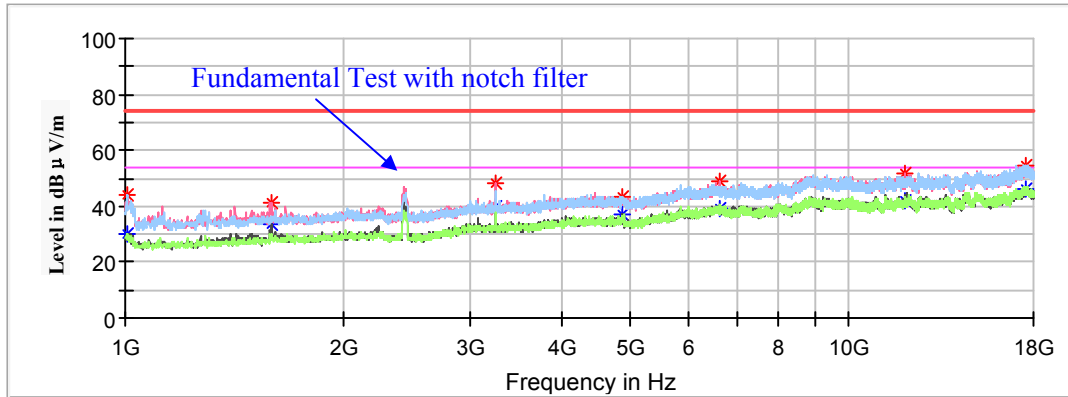
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1005.100000	---	30.29	150.0	V	170.0	-9.0	54.00	23.71
1005.100000	43.42	---	150.0	V	170.0	-9.0	74.00	30.58
1593.300000	42.05	---	200.0	V	297.0	-6.2	74.00	31.95
1593.300000	---	34.61	200.0	V	297.0	-6.2	54.00	19.39
3228.700000	---	41.24	150.0	V	310.0	-1.9	54.00	12.76
3228.700000	47.14	---	150.0	V	310.0	-1.9	74.00	26.86
4844.000000	---	38.41	150.0	H	65.0	0.6	54.00	15.59
4844.000000	43.88	---	150.0	H	65.0	0.6	74.00	30.12
6586.200000	47.89	---	150.0	H	39.0	5.5	74.00	26.11
6586.200000	---	39.71	150.0	H	39.0	5.5	54.00	14.29
11206.800000	---	42.01	200.0	H	11.0	10.1	54.00	11.99
11206.800000	50.92	---	200.0	H	11.0	10.1	74.00	23.08
17699.100000	54.94	---	150.0	H	27.0	14.0	74.00	19.06
17699.800000	---	46.11	150.0	H	27.0	14.0	54.00	7.89

Middle Channel: 2437MHz

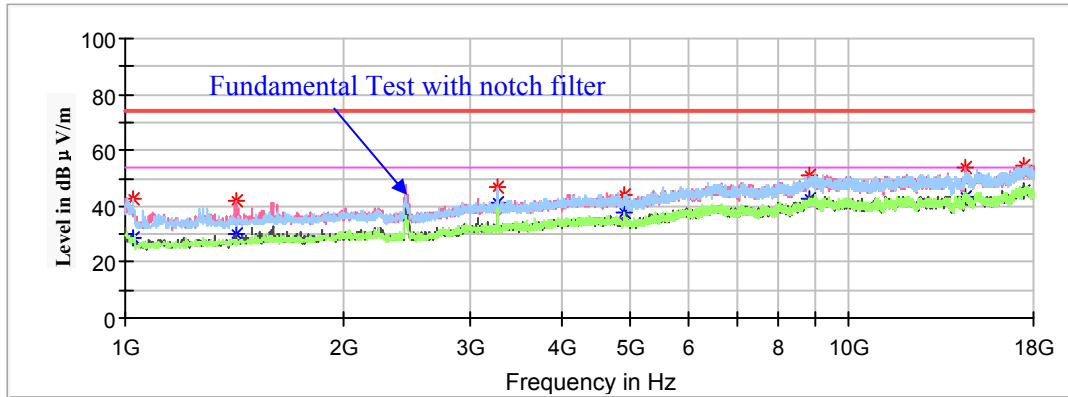
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1006.800000	44.09	---	200.0	H	204.0	-9.0	74.00	29.91
1006.800000	---	30.00	200.0	H	204.0	-9.0	54.00	24.00
1595.000000	41.39	---	150.0	V	260.0	-6.2	74.00	32.61
1595.000000	---	33.89	150.0	V	260.0	-6.2	54.00	20.11
3249.100000	48.29	---	150.0	V	324.0	-1.9	74.00	25.71
3249.100000	---	39.61	150.0	V	324.0	-1.9	54.00	14.39
4874.000000	---	37.29	150.0	V	132.0	0.5	54.00	16.71
4874.000000	43.31	---	150.0	V	132.0	0.5	74.00	30.69
6632.100000	---	39.17	150.0	V	0.0	5.5	54.00	14.83
6632.100000	48.96	---	150.0	V	0.0	5.5	74.00	25.04
11980.300000	---	41.90	200.0	V	158.0	10.0	54.00	12.10
11980.300000	51.47	---	200.0	V	158.0	10.0	74.00	22.53
17609.000000	54.59	---	150.0	V	158.0	14.2	74.00	19.41
17609.000000	---	45.85	150.0	V	158.0	14.2	54.00	8.15

High Channel: 2452MHz

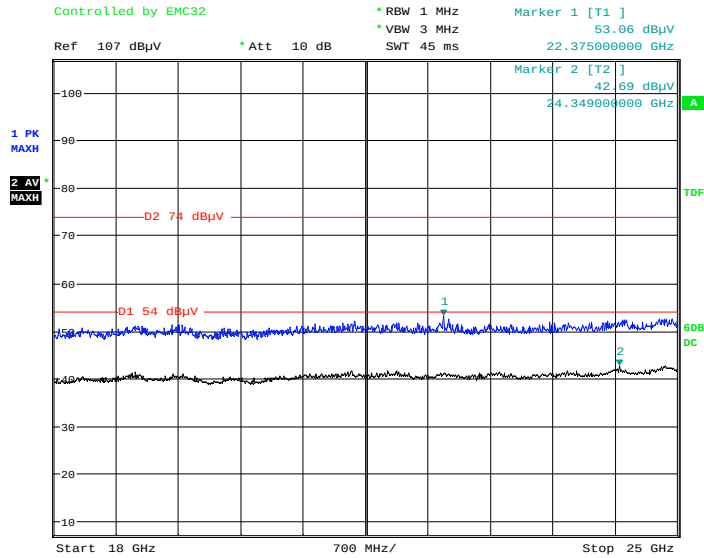
Full Spectrum



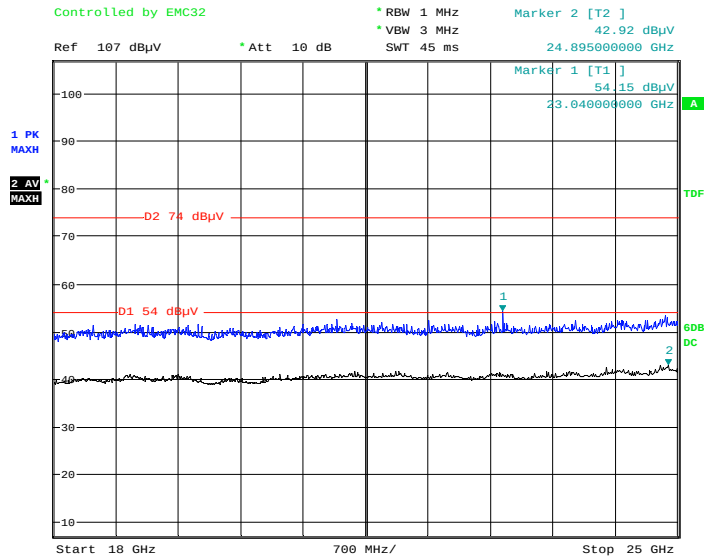
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1023.800000	---	28.84	200.0	H	115.0	-8.9	54.00	25.16
1023.800000	42.79	---	200.0	H	115.0	-8.9	74.00	31.21
1419.900000	---	29.90	200.0	V	271.0	-6.9	54.00	24.10
1419.900000	42.16	---	200.0	V	271.0	-6.9	74.00	31.84
3267.800000	---	41.08	150.0	V	309.0	-1.9	54.00	12.92
3267.800000	47.04	---	150.0	V	309.0	-1.9	74.00	26.96
4904.000000	---	37.56	150.0	H	256.0	0.4	54.00	16.44
4904.000000	44.41	---	150.0	H	256.0	0.4	74.00	29.59
8847.200000	---	42.62	150.0	H	102.0	8.9	54.00	11.38
8847.200000	50.87	---	150.0	H	102.0	8.9	74.00	23.13
14448.700000	---	43.50	200.0	V	169.0	10.8	54.00	10.50
14448.700000	53.68	---	200.0	V	169.0	10.8	74.00	20.32
17462.800000	---	45.33	150.0	V	104.0	14.3	54.00	8.67
17462.800000	54.84	---	150.0	V	104.0	14.3	74.00	19.16

18GHz-25GHz:

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X,Y and Z axes of orientation, the worst case **middle channel of 802.11n-HT40 mode in Y-axis of orientation** was recorded

Horizontal

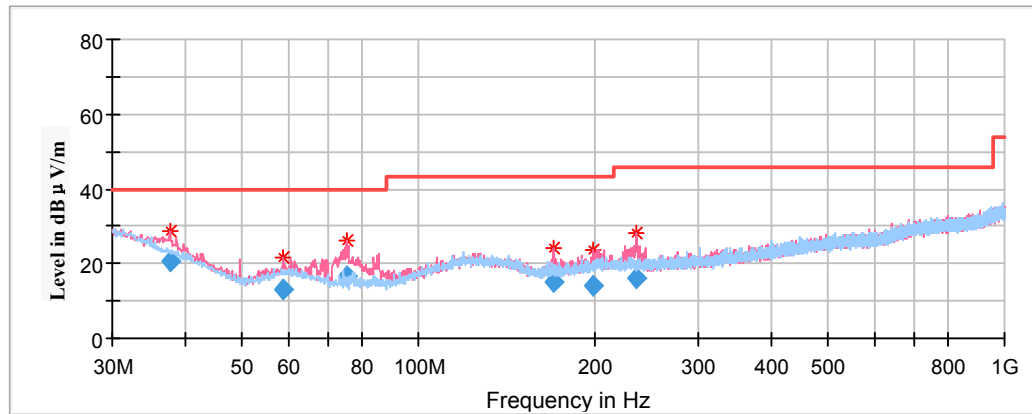
Date: 19.JUL.2021 23:18:02

Vertical

Date: 19.JUL.2021 23:26:12

Series Model: 9290030094**30MHz-1GHz:**

Pre-scan with 802.11b, 802.11g, 802.11n-HT20 and 802.11n-HT40 modes of operation in the X, Y and Z axes of orientation, the worst case **middle channel of 802.11b mode in Y-axis of orientation** was recorded



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
37.638350	20.88	100.0	V	116.0	-8.8	40.00	19.12
58.857200	13.27	100.0	V	149.0	-14.6	40.00	26.73
75.222750	16.69	100.0	V	105.0	-17.0	40.00	23.31
170.046950	14.96	100.0	V	197.0	-13.8	43.50	28.54
198.928500	14.29	200.0	V	310.0	-12.1	43.50	29.21
235.161900	16.31	200.0	V	272.0	-12.0	46.00	29.69

1GHz-18GHz:**802.11b Mode:**

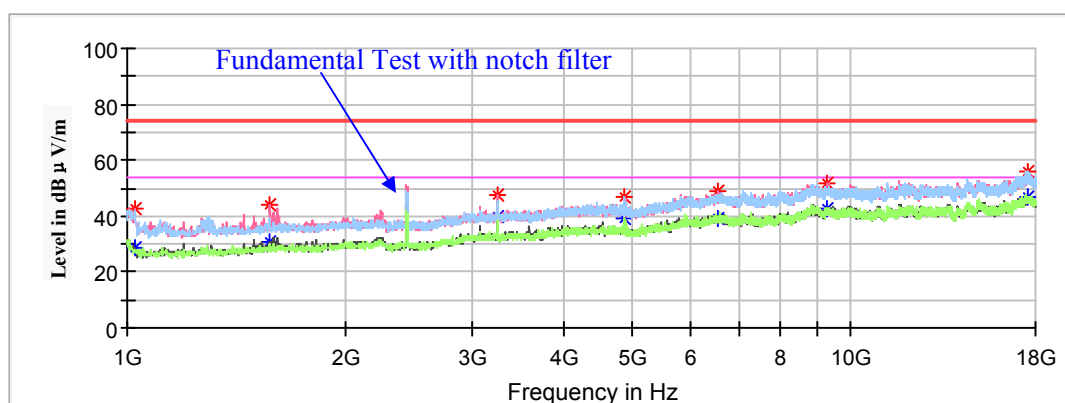
(Pre-scan in the X,Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

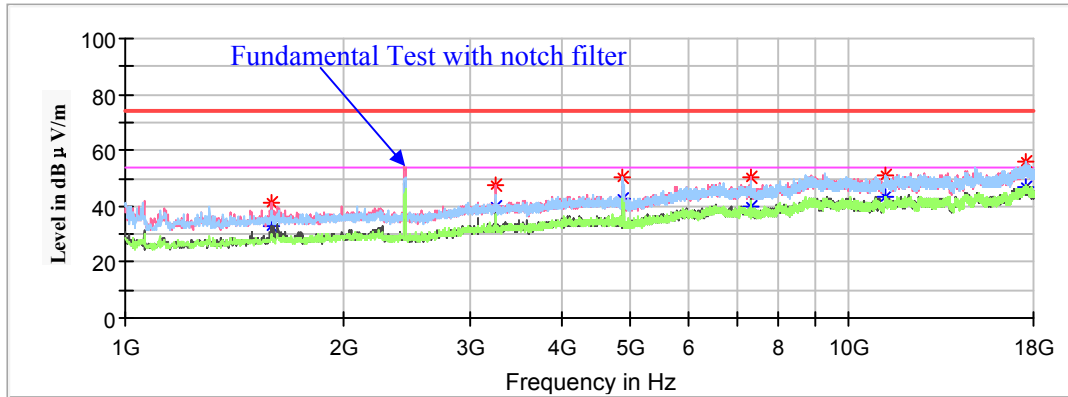
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1022.100000	---	28.80	150.0	V	173.0	-8.9	54.00	25.20
1022.100000	42.69	---	150.0	V	173.0	-8.9	74.00	31.31
1576.300000	---	30.47	150.0	V	224.0	-6.2	54.00	23.53
1576.300000	44.04	---	150.0	V	224.0	-6.2	74.00	29.96
3249.100000	---	39.63	150.0	V	300.0	-1.9	54.00	14.37
3249.100000	47.46	---	150.0	V	300.0	-1.9	74.00	26.54
4824.000000	47.08	---	150.0	H	244.0	0.6	74.00	26.92
4824.000000	---	39.21	150.0	H	244.0	0.6	54.00	14.79
6545.400000	---	39.35	200.0	V	1.0	5.4	54.00	14.65
6545.400000	49.25	---	200.0	V	1.0	5.4	74.00	24.75
9243.300000	---	42.45	150.0	V	349.0	9.3	54.00	11.55
9243.300000	51.79	---	150.0	V	349.0	9.3	74.00	22.21
17573.300000	---	46.92	150.0	V	94.0	14.3	54.00	7.08
17573.300000	55.92	---	150.0	V	94.0	14.3	74.00	18.08

Middle Channel: 2437MHz

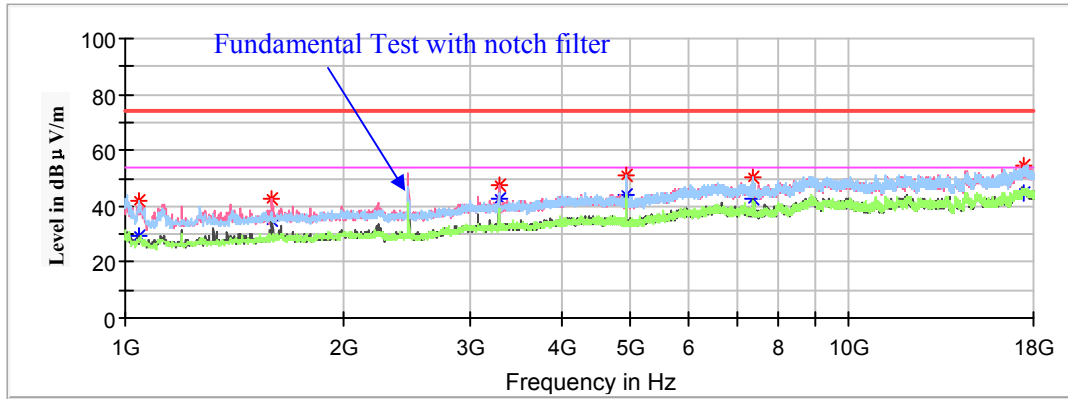
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1593.300000	41.08	---	200.0	V	257.0	-6.2	74.00	32.92
1593.300000	---	33.15	200.0	V	257.0	-6.2	54.00	20.85
3249.100000	---	39.65	150.0	V	321.0	-1.9	54.00	14.35
3249.100000	47.42	---	150.0	V	321.0	-1.9	74.00	26.58
4874.000000	50.40	---	150.0	H	257.0	0.5	74.00	23.60
4874.000000	---	42.96	150.0	H	257.0	0.5	54.00	11.04
7311.000000	---	40.05	150.0	V	219.0	5.1	54.00	13.95
7311.000000	50.12	---	150.0	V	219.0	5.1	74.00	23.88
11215.300000	51.00	---	150.0	H	179.0	10.1	74.00	23.00
11215.300000	---	43.35	150.0	H	179.0	10.1	54.00	10.65
17566.500000	---	46.85	200.0	H	34.0	14.3	54.00	7.15
17566.500000	55.94	---	200.0	H	34.0	14.3	74.00	18.06

High Channel: 2462MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1047.600000	---	29.26	150.0	V	167.0	-8.8	54.00	24.74
1047.600000	42.19	---	150.0	V	167.0	-8.8	74.00	31.81
1591.600000	---	35.19	150.0	V	256.0	-6.2	54.00	18.81
1591.600000	42.91	---	150.0	V	256.0	-6.2	74.00	31.09
3281.400000	---	42.55	150.0	V	320.0	-1.9	54.00	11.45
3281.400000	47.50	---	150.0	V	320.0	-1.9	74.00	26.50
4924.000000	51.24	---	200.0	H	82.0	0.4	74.00	22.76
4924.000000	---	44.10	200.0	H	82.0	0.4	54.00	9.90
7386.000000	---	42.65	150.0	V	180.0	5.0	54.00	11.35
7386.000000	50.06	---	150.0	V	180.0	5.0	74.00	23.94
17491.700000	---	44.96	200.0	V	134.0	14.4	54.00	9.04
17491.700000	54.47	---	200.0	V	134.0	14.4	74.00	19.53

802.11g Mode:

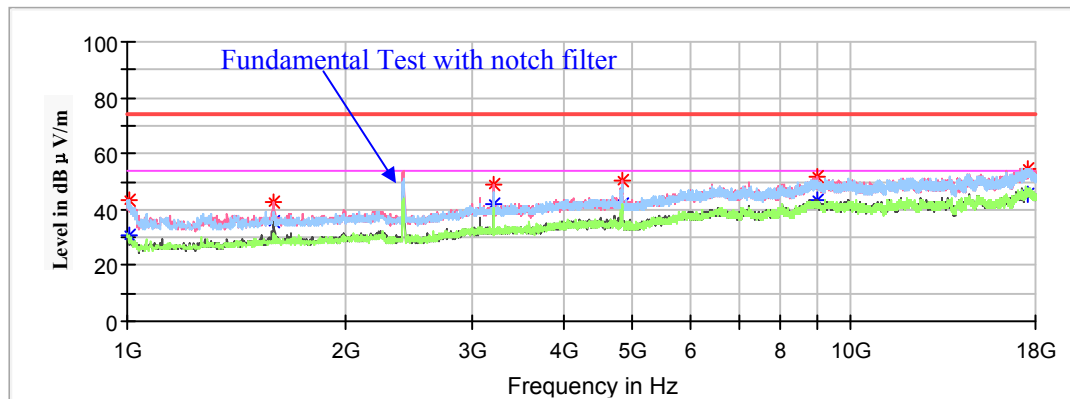
(Pre-scan in the X, Y and Z axes of orientation, the worst case **Y-axis of orientation** was recorded)

Note:

1. This test was performed with the 2.4-2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2412MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1006.800000	---	30.81	200.0	V	141.0	-9.0	54.00	23.19
1006.800000	43.65	---	200.0	V	141.0	-9.0	74.00	30.35
1591.600000	---	35.83	150.0	V	276.0	-6.2	54.00	18.17
1591.600000	42.75	---	150.0	V	276.0	-6.2	74.00	31.25
3215.100000	---	42.30	150.0	V	327.0	-1.9	54.00	11.70
3215.100000	48.60	---	150.0	V	327.0	-1.9	74.00	25.40
4824.000000	---	41.96	150.0	H	60.0	0.6	54.00	12.04
4824.000000	50.51	---	150.0	H	60.0	0.6	74.00	23.49
8966.200000	---	43.26	200.0	V	141.0	9.4	54.00	10.74
8966.200000	51.85	---	200.0	V	141.0	9.4	74.00	22.15
17507.000000	---	45.15	200.0	H	275.0	14.4	54.00	8.85
17507.000000	54.85	---	200.0	H	275.0	14.4	74.00	19.15