

FCC PART 15B, CLASS B
MEASUREMENT AND TEST REPORT

For

Shenzhen NED Optics Co., LTD.

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Nanshan District, Shenzhen, P.R.China

FCC ID: 2AL39GOOVISG2

Report Type: Original Report	Product Type: VR Headset
Report Number: RSZ171110007-00A	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen NED Optics Co., LTD.*'s product, model number: G2 (FCC ID: 2AL39GOOVISG2) in this report was a VR Headset, which was measured approximately: 142.2 mm (L) * 57.4 mm (W) * 17.7 mm (H) for Control Box part, 185 mm (L) * 109 mm (W) * 56 mm (H) for Glasses part, rated with input voltage: DC 3.8 V from battery.

Notes: This series products model: G2S and G2, the difference among them are the model number and DDR, G2 has two pieces of DDR3 (1GB/piece), and G2S has one LPDDR3 with 2GB. Model G2 was selected for fully testing, the detailed information can be referred to the declaration which was stated and guaranteed by the applicant.

**All measurement and test data in this report was gathered from production sample serial number: 1702486 (Assigned by BACL, shenzhen). The EUT supplied by the applicant was received on 2017-11-10.*

Objective

This test report is prepared on behalf of *Shenzhen NED Optics Co., LTD.* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS&DSS, FCC Part 15.407 NII submissions with FCC ID: 2AL39GOOVISG2.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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

Measurement Uncertainty

Parameter		uncertainty
Conducted Emissions		±1.95dB
Emissions, Radiated	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 342867, the FCC Designation No. : CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in normal condition.

Test Mode 1: Charging & Playing

Test Mode 2: downloading

EUT Exercise Software

“BurnIn test v5.3” exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

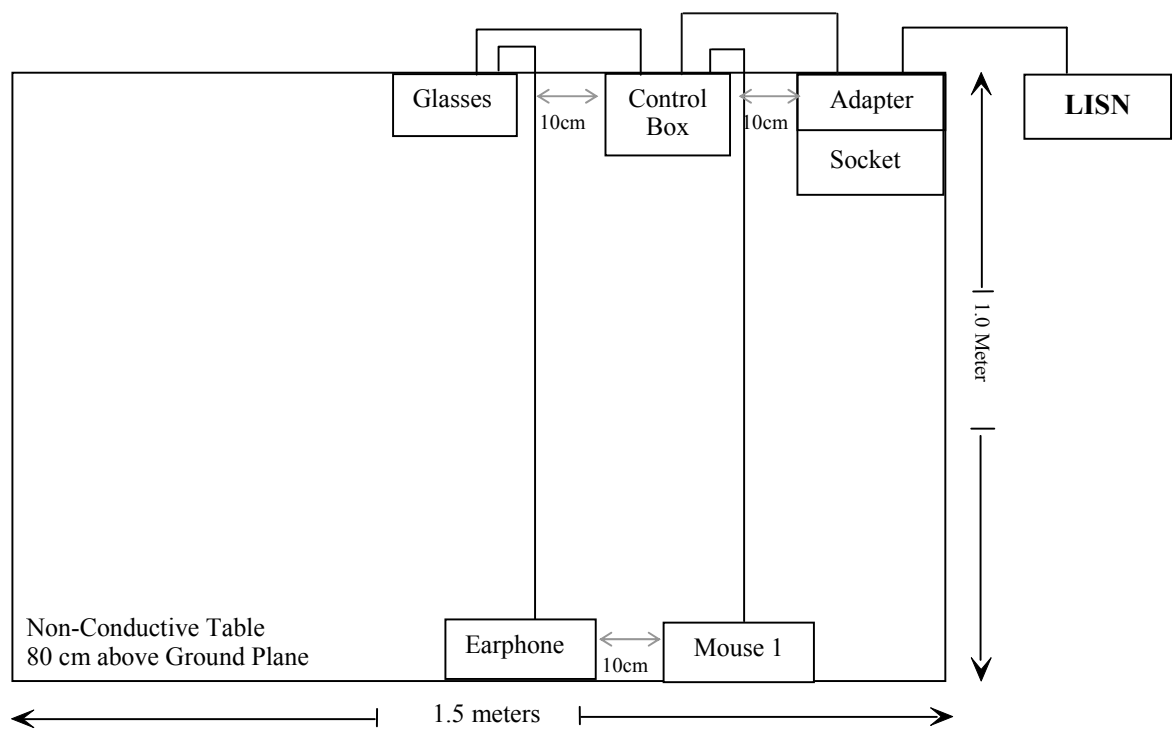
Manufacturer	Description	Model	Serial Number
N/A	Earphone	N/A	2365284
BULL	Socket	GN-415K	5503290068073
DELL	Monitor	E178FPc	070072
DELL	PC	DCSCSF	127BP2X
ECOM	Modem	56000bps	21654684
LISTED	Modem Adapter	TYP60-1207000Z	326703
Microsoft	Keyboard	1406	0200706128743
Microsoft	Mouse 1	1405	0204608630856
DELL	Mouse 2	MOC5UO	G1900NKD
ACT	Adapter	APS-S011050200W-G	N/A

External I/O Cable

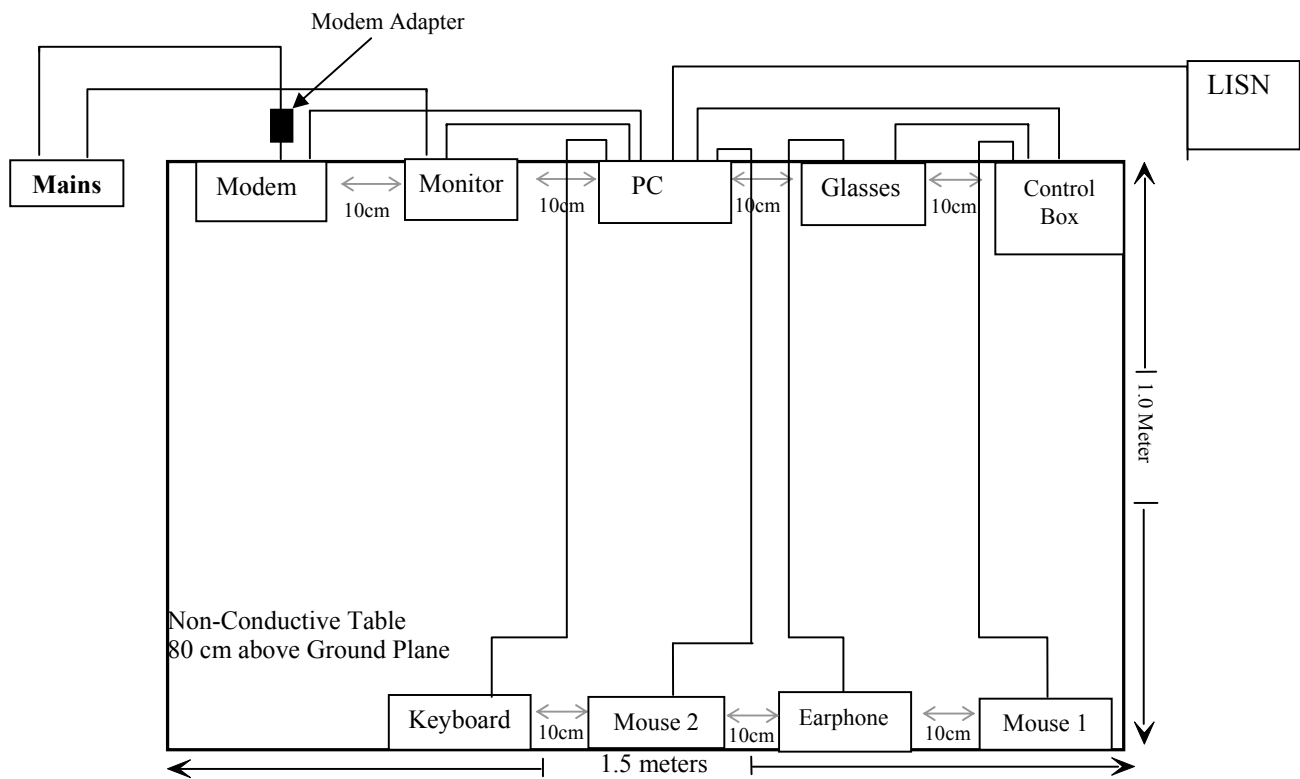
Cable Description	Length (m)	From/Port	To
Un-shielding Un-detachable AC cable	1.0	Socket	LISN
Un-shielding Un-detachable earphone cable	1.3	Mouse 1	Control Box
Shielding detachable USB cable	1.2	Adapter	Control Box
Shielding Un-detachable HDMI cable	1.2	Control Box	Glasses
Un-shielding Un-detachable earphone cable	1.3	Earphone	Glasses
Un-shielding detachable AC cable	1.5	Monitor	Mains
Shielding detachable VGA cable	1.5	PC	Monitor
Un-shielding detachable AC cable	1.2	PC	LISN
Shielding detachable USB cable	1.2	PC	Control Box
Shielding detachable RS232 cable	1.8	PC	Modem
Un-shielding Un-detachable DC cable	1.7	Modem	Modem Adapter
Un-shielding detachable AC cable	1.6	Modem Adapter	Mains
Shielding Un-detachable USB cable	1.5	Keyboard	PC
Shielding Un-detachable USB cable	1.5	Mouse 2	PC

Block Diagram of Test Setup

Test mode 1: Charging & Playing



Test mode 2: Downloading



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04
Rohde & Schwarz	LISN	ENV216	3560.6650.12-101613-Yb	2017-12-21	2018-12-21
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-11-29	2018-05-21
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1-0720-504504	2017-11-12	2018-05-12
Radiated Emission Test					
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017-12-22	2020-12-21
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2018-04-24	2019-04-24
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2017-12-17	2020-12-16
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-05-21	2018-05-21
HP	Amplifier	HP8447E	1937A01046	2017-11-19	2018-05-21
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2018-01-11	2019-01-11
Ducommun technologies	RF Cable	UFA210A-1-4724-30050U	MFR64369223410-001	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	104PEA	218124002	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	1	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	2	2017-11-22	2018-05-22
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-04	2017-12-29	2020-12-28
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-03	2017-08-03	2018-08-03
Ducommun Technologies	Pre-amplifier	ALN-22093530-01	991373-01	2017-05-21	2018-05-21
Ducommun Technologies	Pre-amplifier	ALN-33144030-01	991373-01	2017-05-21	2018-05-21

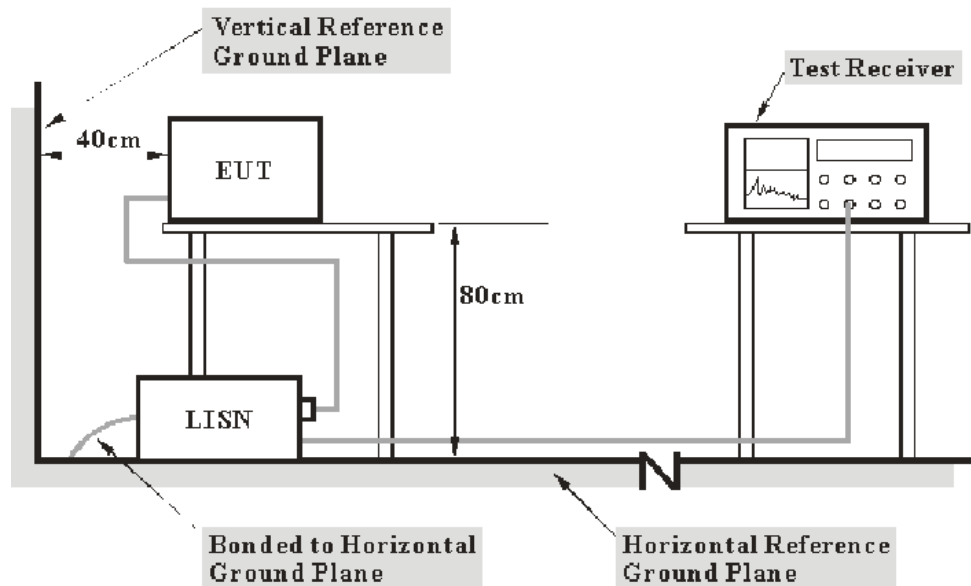
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC§15.107

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 C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

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

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.

Corrected Factor & Margin Calculation

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

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

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 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

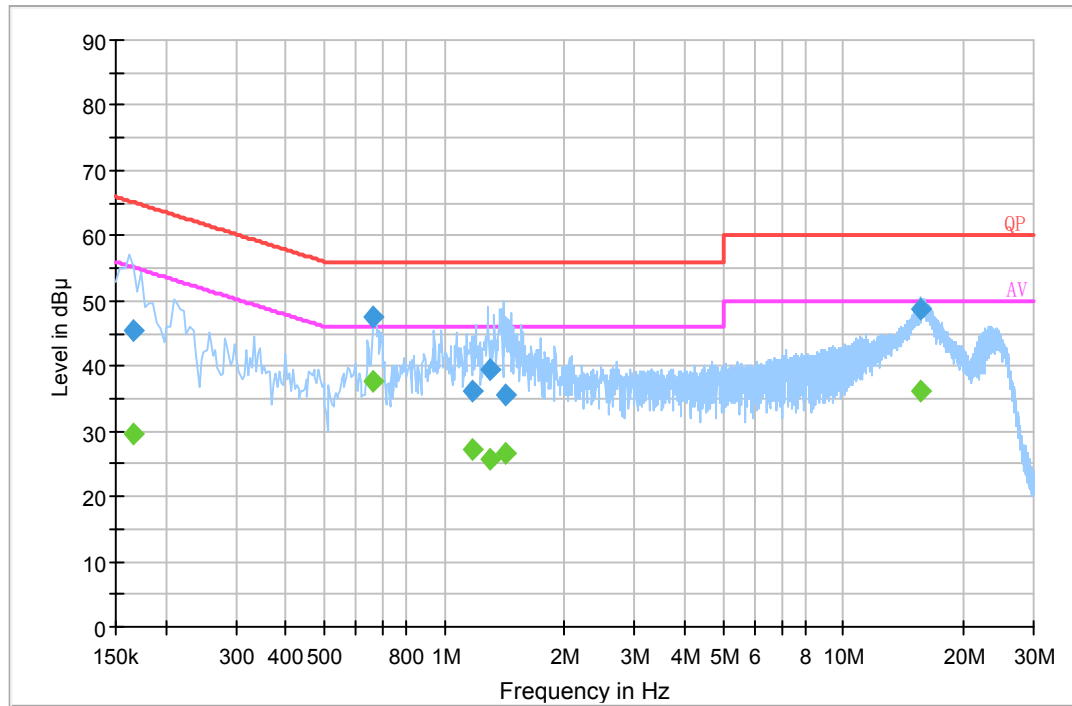
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

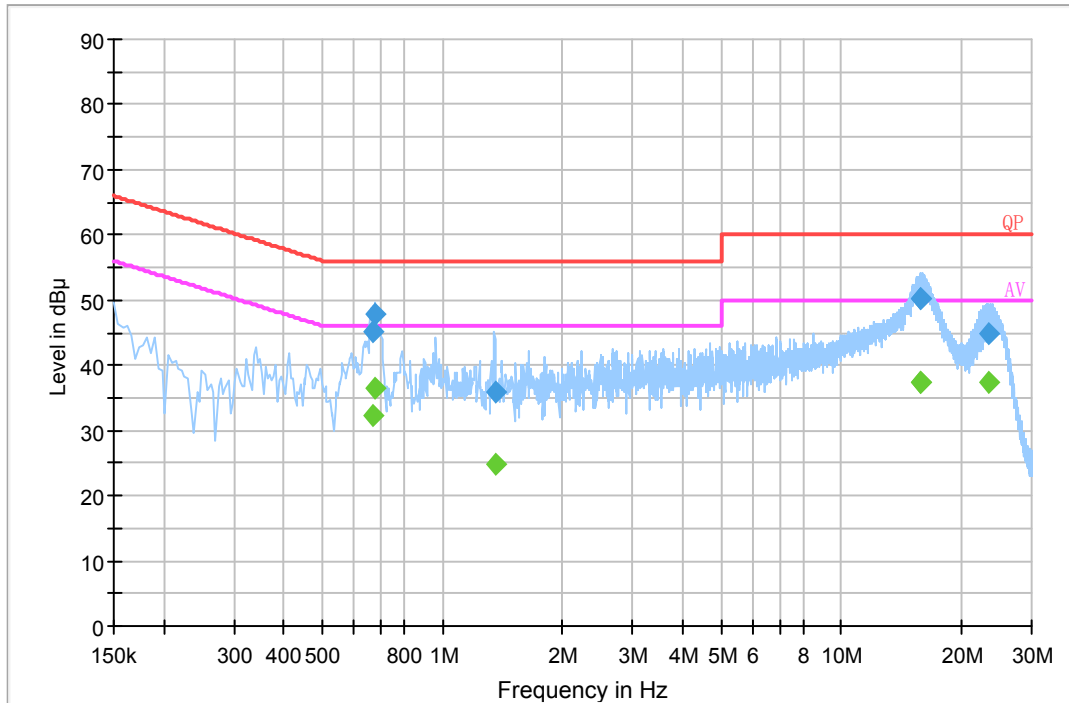
The testing was performed by Simon Wang on 2018-03-06.

Test mode: Charging & Playing

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.166501	45.5	20.2	65.1	19.6	QP
0.664010	47.4	20.0	56.0	8.6	QP
1.180030	36.3	20.1	56.0	19.7	QP
1.305290	39.6	20.1	56.0	16.4	QP
1.416850	35.6	20.1	56.0	20.4	QP
15.699370	48.6	20.1	60.0	11.4	QP
0.166501	29.5	20.2	55.1	25.6	Ave.
0.664010	37.7	20.0	46.0	8.3	Ave.
1.180030	27.2	20.1	46.0	18.8	Ave.
1.305290	25.7	20.1	46.0	20.3	Ave.
1.416850	26.5	20.1	46.0	19.5	Ave.
15.699370	36.0	20.1	50.0	14.0	Ave.

AC 120V/60 Hz, Neutral

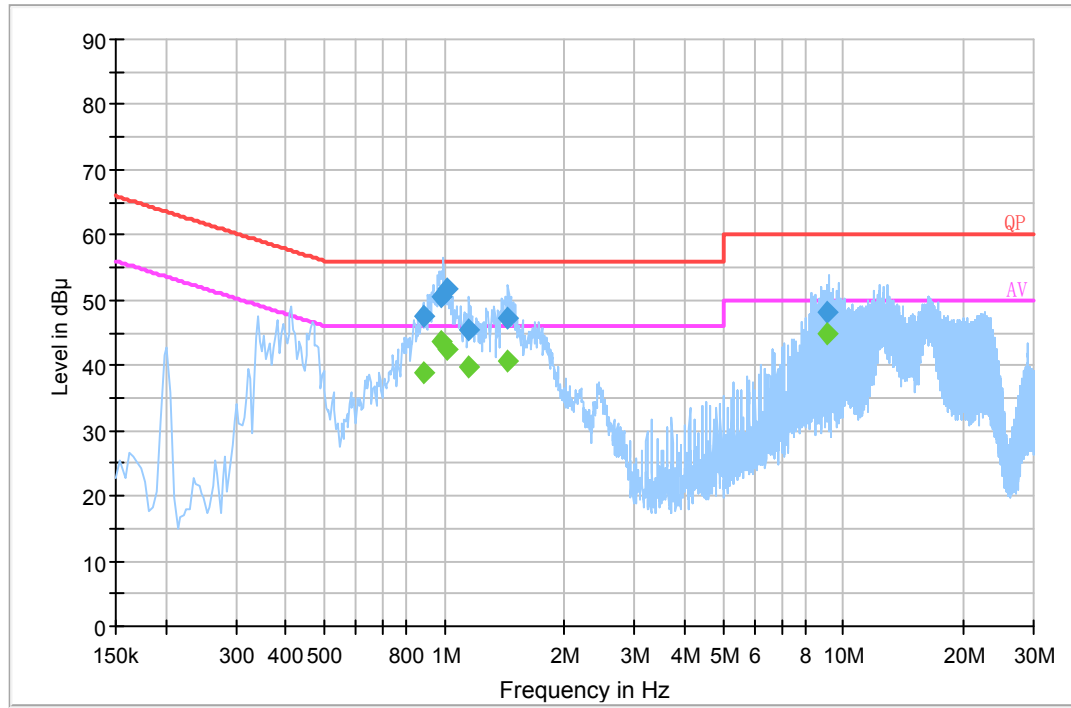
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.667870	45.1	20.0	56.0	10.9	QP
0.675830	48.0	20.0	56.0	8.0	QP
1.353750	35.8	20.1	56.0	20.2	QP
15.758810	50.1	20.1	60.0	9.9	QP
15.833750	50.1	20.1	60.0	9.9	QP
23.363050	45.0	20.1	60.0	15.0	QP
0.667870	32.3	20.0	46.0	13.7	Ave.
0.675830	36.6	20.0	46.0	9.4	Ave.
1.353750	24.9	20.1	46.0	21.1	Ave.
15.758810	37.3	20.1	50.0	12.7	Ave.
15.833750	37.4	20.1	50.0	12.6	Ave.
23.363050	37.3	20.1	50.0	12.7	Ave.

Note:

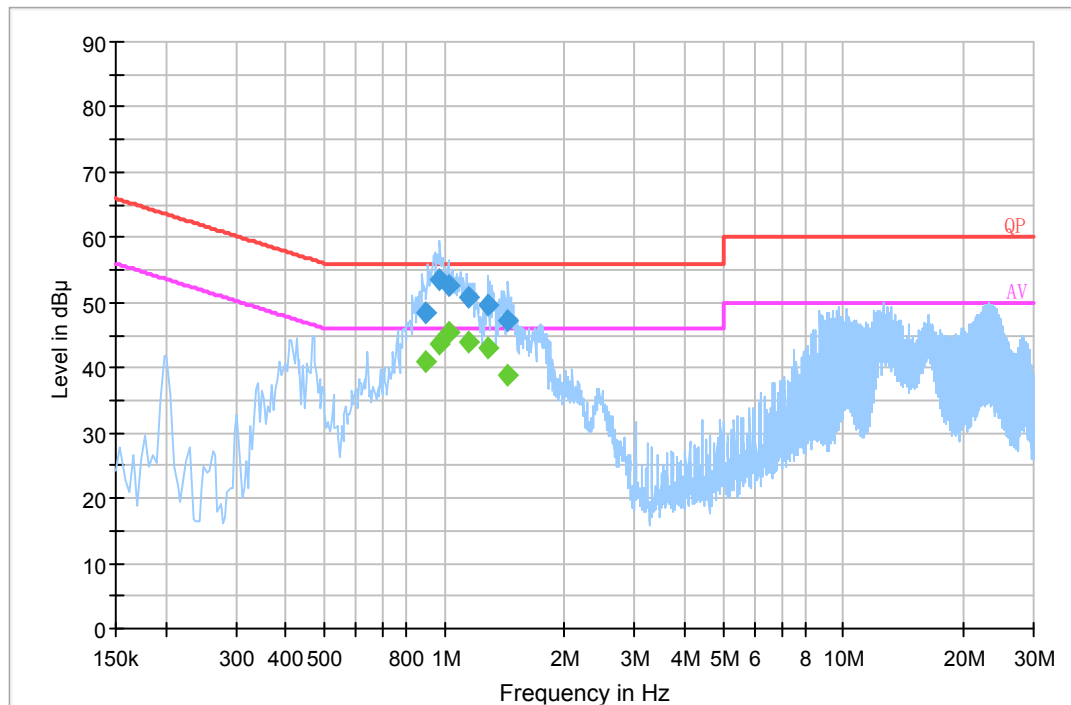
- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 3) Margin = Limit – Corrected Amplitude

Test mode: Downloading

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.884710	47.6	20.1	56.0	8.4	QP
0.983030	50.6	20.1	56.0	5.4	QP
1.010790	51.8	20.1	56.0	4.2	QP
1.148690	45.5	20.1	56.0	10.5	QP
1.444310	47.4	20.1	56.0	8.6	QP
9.147370	48.0	20.0	60.0	12.0	QP
0.884710	39.0	20.1	46.0	7.0	Ave.
0.983030	43.7	20.1	46.0	2.3	Ave.
1.010790	42.6	20.1	46.0	3.4	Ave.
1.148690	39.7	20.1	46.0	6.3	Ave.
1.444310	40.5	20.1	46.0	5.5	Ave.
9.147370	44.9	20.0	50.0	5.1	Ave.

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.895230	48.4	20.1	56.0	7.6	QP
0.967390	53.5	20.1	56.0	2.5	QP
1.022670	52.5	20.1	56.0	3.5	QP
1.152930	51.0	20.1	56.0	5.0	QP
1.286710	49.7	20.1	56.0	6.3	QP
1.444310	47.1	20.1	56.0	8.9	QP
0.895230	41.1	20.1	46.0	4.9	Ave.
0.967390	43.7	20.1	46.0	2.3	Ave.
1.022670	45.4	20.1	46.0	0.6	Ave.
1.152930	43.9	20.1	46.0	2.1	Ave.
1.286710	43.0	20.1	46.0	3.0	Ave.
1.444310	38.8	20.1	46.0	7.2	Ave.

Note:

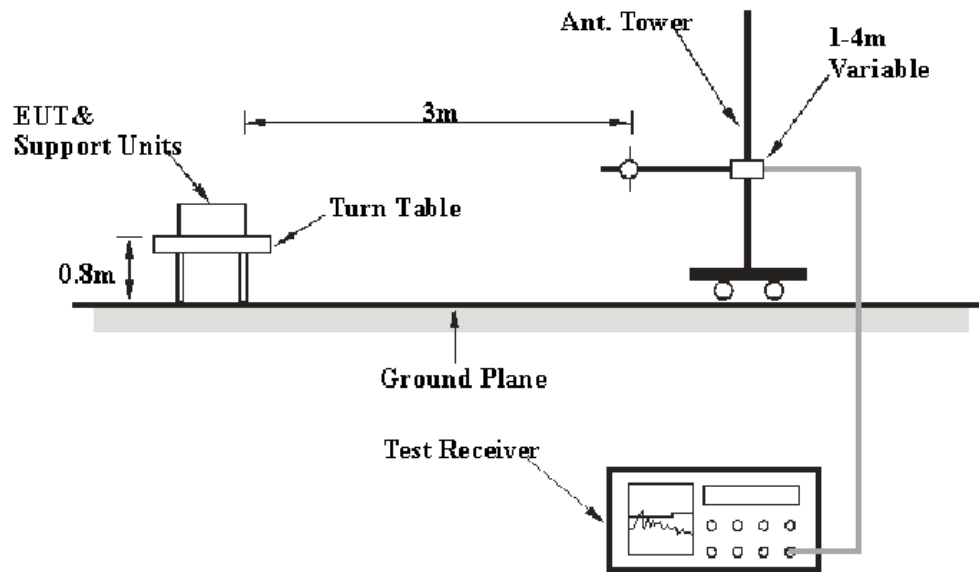
- 1) Corrected Amplitude = Reading + Correction Factor
- 2) Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation
- 3) Margin = Limit – Corrected Amplitude

FCC §15.109 - RADIATED EMISSIONS

Applicable Standard

According to FCC§15.109

Test System Setup



The radiated emission tests were performed in the 3 meters chamber test site.

EMI Test Receiver Setup

According to FCC 15.33 requirements, the EUT system was measured from 30 MHz to 29.2 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	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	-	Peak
Above 1 GHz	1 MHz	10 Hz	-	Average

Test Procedure

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

All final data was recorded in the Quasi-peak detection mode for below 1 GHz, and Peak and Average for 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

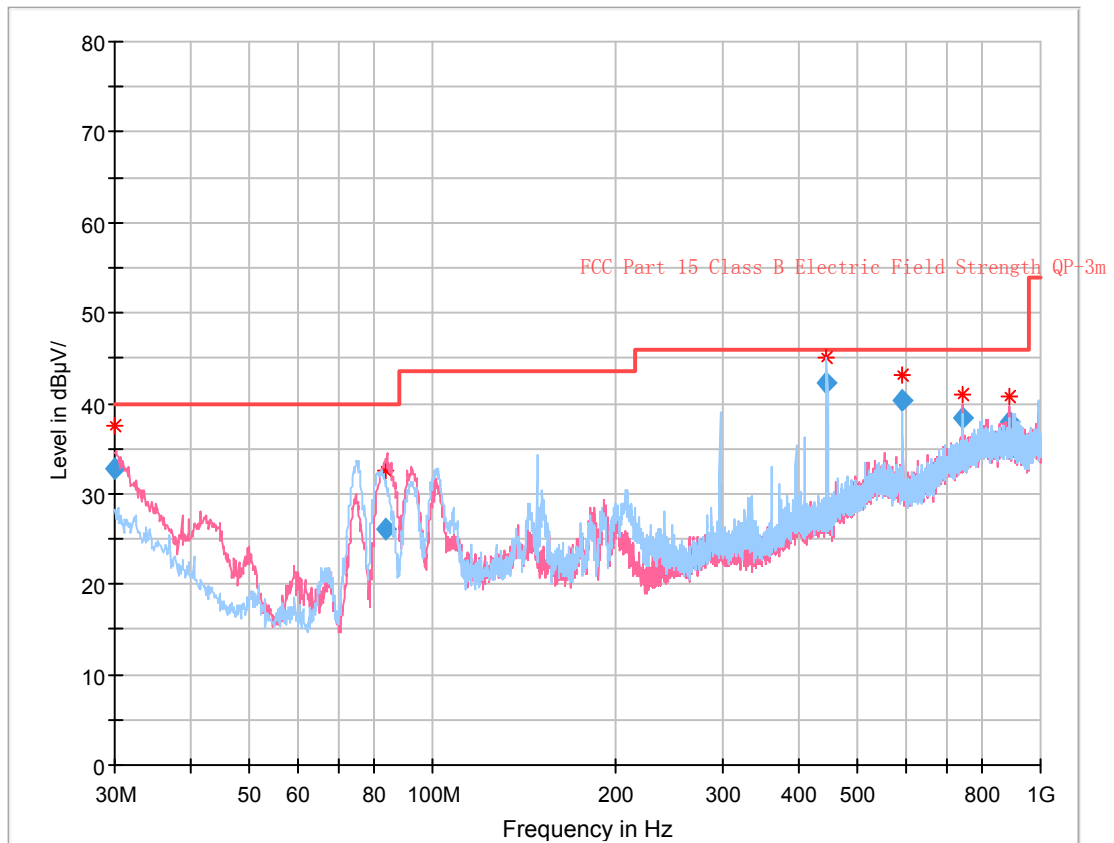
Environmental Conditions

Temperature:	23~25 °C
Relative Humidity:	50~52 %
ATM Pressure:	100.0~101.0 kPa

The testing was performed by Simon Wang from 2018-03-13 to 2018-05-09.

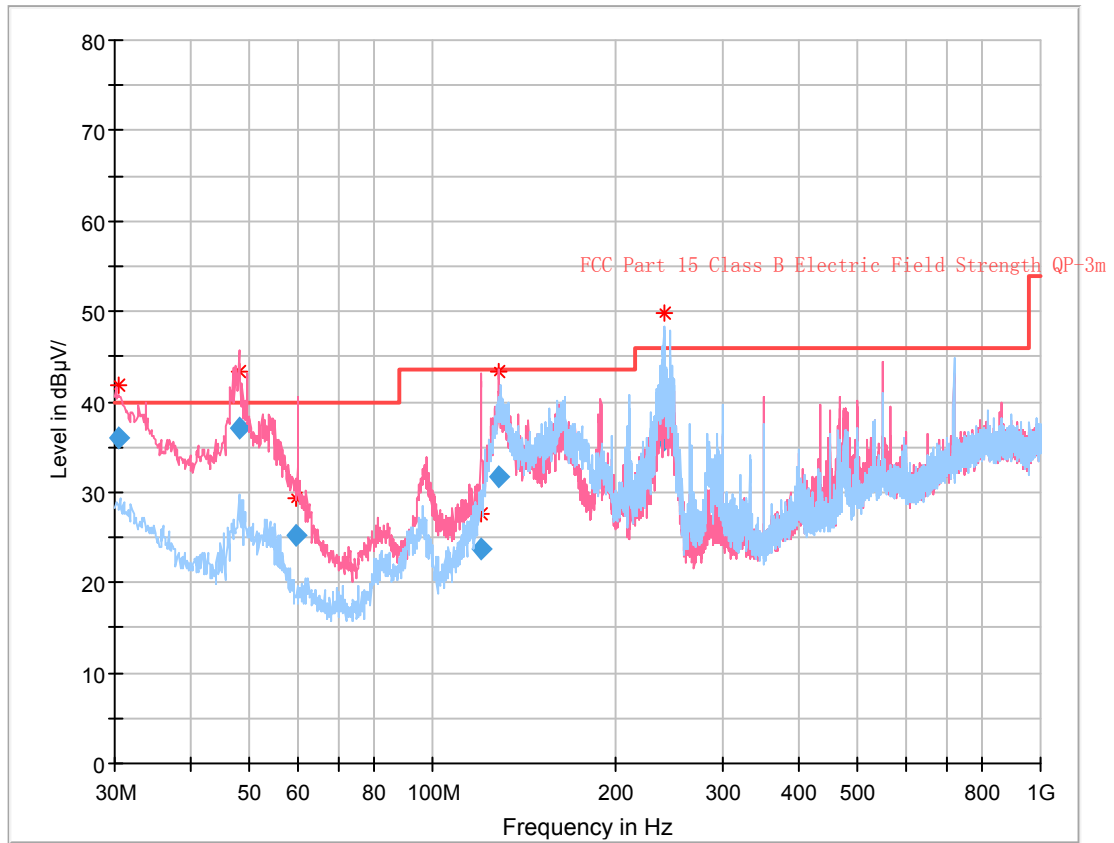
For Model: G2

Test mode: Charging & Playing

30 MHz – 1 GHz:

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
30.038828	32.67	107.0	V	286.0	0.3	40.00	7.33
83.746125	26.19	134.0	V	332.0	-11.0	40.00	13.81
445.513250	42.17	105.0	H	355.0	0.2	46.00	3.83
594.017625	40.36	114.0	V	213.0	3.7	46.00	5.64
742.518250	38.31	132.0	V	97.0	7.5	46.00	7.69
891.001375	38.03	119.0	V	230.0	9.6	46.00	7.97

Test mode: Downloading

30 MHz – 1 GHz:

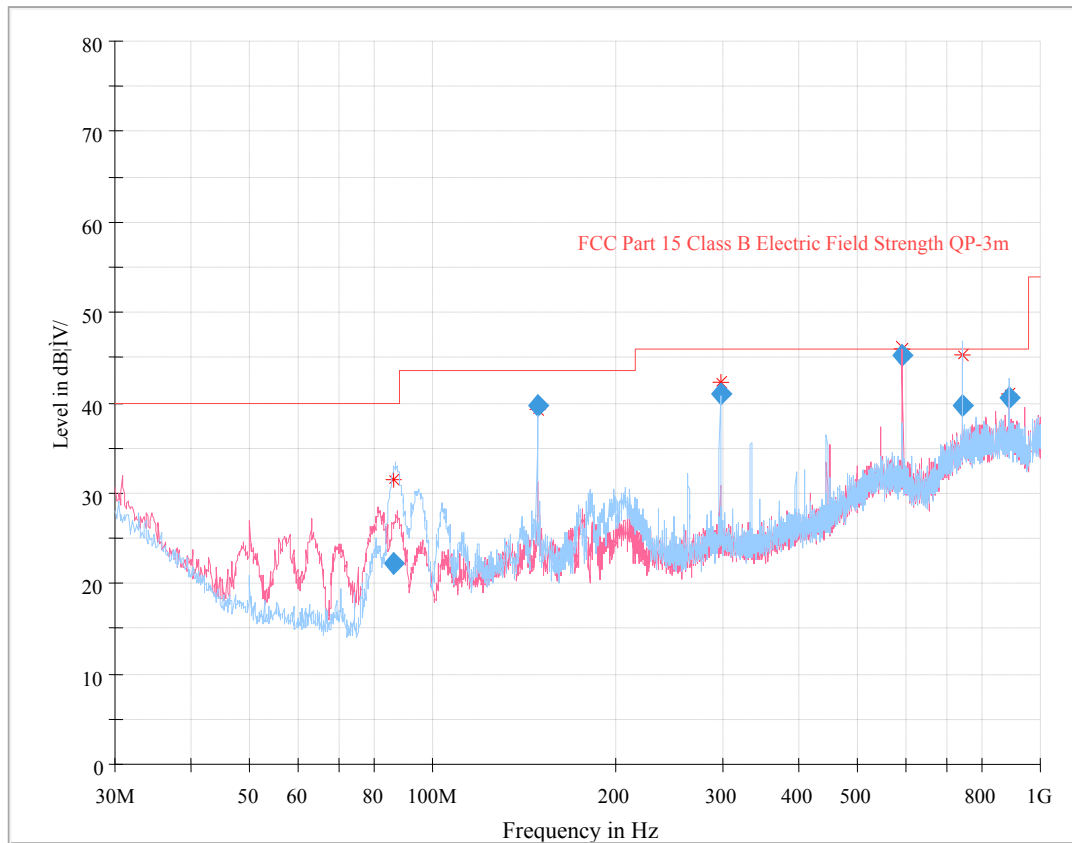
Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
30.397600	35.99	106.0	V	54.0	0.0	40.00	4.01
47.981000	37.00	101.0	V	0.0	-10.5	40.00	3.00
59.663375	25.21	110.0	V	274.0	-11.9	40.00	14.79
120.035375	23.64	102.0	V	61.0	-6.0	43.50	19.86
128.031750	31.63	112.0	V	26.0	-5.2	43.50	11.87
239.737125	35.71	176.0	H	259.0	-4.6	46.00	11.29

1GHz – 29.2 GHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
Test mode: Charging & Playing									
1188.03	53.04	PK	2	1.4	H	-8.48	44.56	74	29.44
1188.03	49.88	Ave.	2	1.4	H	-8.48	41.40	54	12.60
1188.03	51.01	PK	248	2.0	V	-8.48	42.53	74	31.47
1188.03	46.82	Ave.	248	2.0	V	-8.48	38.34	54	15.66
1736.38	45.69	PK	309	1.3	H	-5.23	40.46	74	33.54
1736.38	29.84	Ave.	309	1.3	H	-5.23	24.61	54	29.39
1736.38	47.62	PK	63	1.0	V	-5.23	42.39	74	31.61
1736.38	30.20	Ave.	63	1.0	V	-5.23	24.97	54	29.03
Test mode: Downloading									
1345.62	60.47	PK	172	2.5	H	-8.04	52.43	74	21.57
1345.62	32.35	Ave.	172	2.5	H	-8.04	24.31	54	29.69
1345.62	62.42	PK	246	2.2	V	-8.04	54.38	74	19.62
1345.62	30.11	Ave.	246	2.2	V	-8.04	22.07	54	31.93
2192.38	56.94	PK	273	2.4	H	-0.97	55.97	74	18.03
2192.38	30.44	Ave.	273	2.4	H	-0.97	29.47	54	24.53
2195.01	56.95	PK	13	2.3	V	-0.97	55.98	74	18.02
2195.01	30.70	Ave.	13	2.3	V	-0.97	29.73	54	24.27

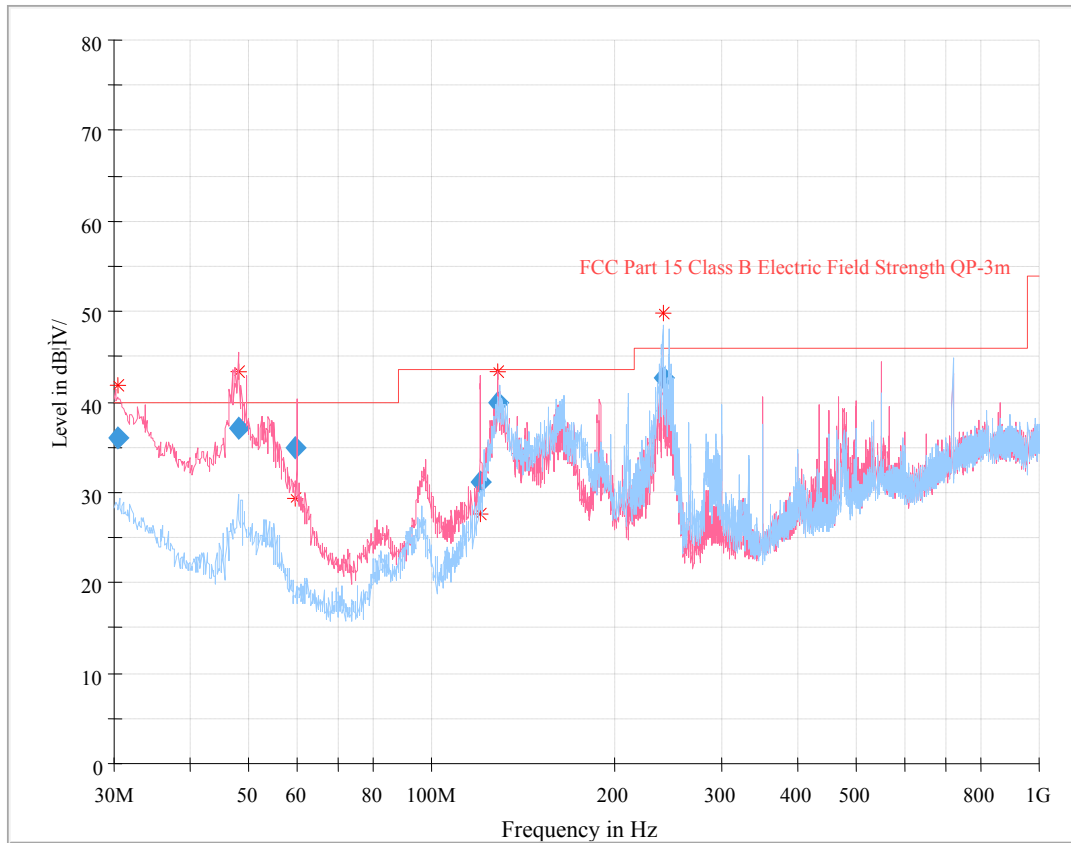
For Model: G2S

Test mode: Charging & Playing

30 MHz – 1 GHz:

Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
86.391500	22.29	192.0	H	71.0	-11.0	40.00	17.71
148.482375	39.58	224.0	H	60.0	-4.6	43.50	3.92
296.996125	40.95	101.0	H	12.0	-2.1	46.00	5.05
593.983875	45.00	102.0	V	116.0	4.8	46.00	1.00
742.490625	39.65	110.0	H	16.0	8.4	46.00	6.35
890.997500	40.52	101.0	H	0.0	10.1	46.00	5.48

Test mode: Downloading

30 MHz – 1 GHz:

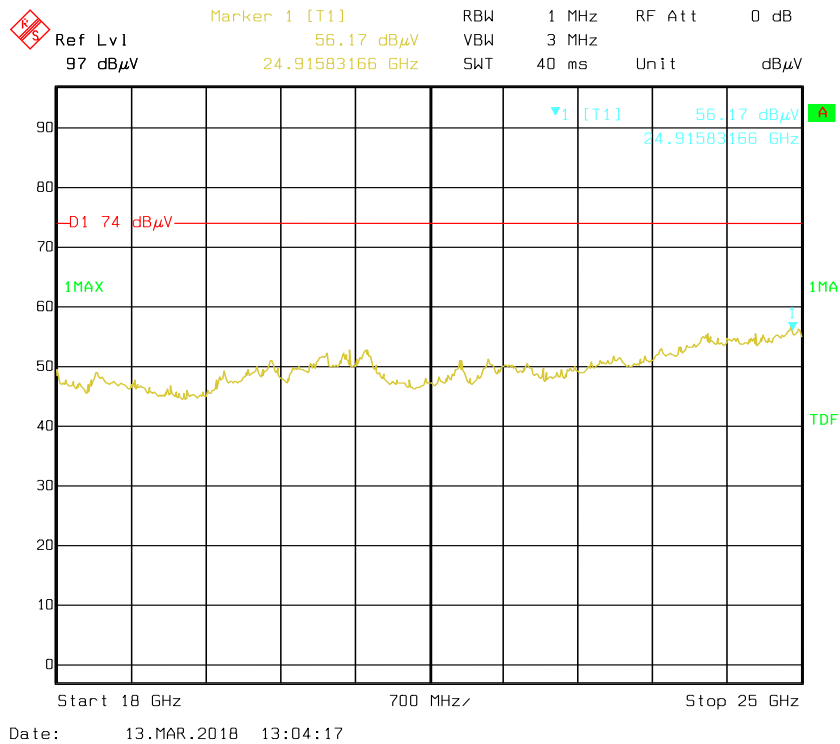
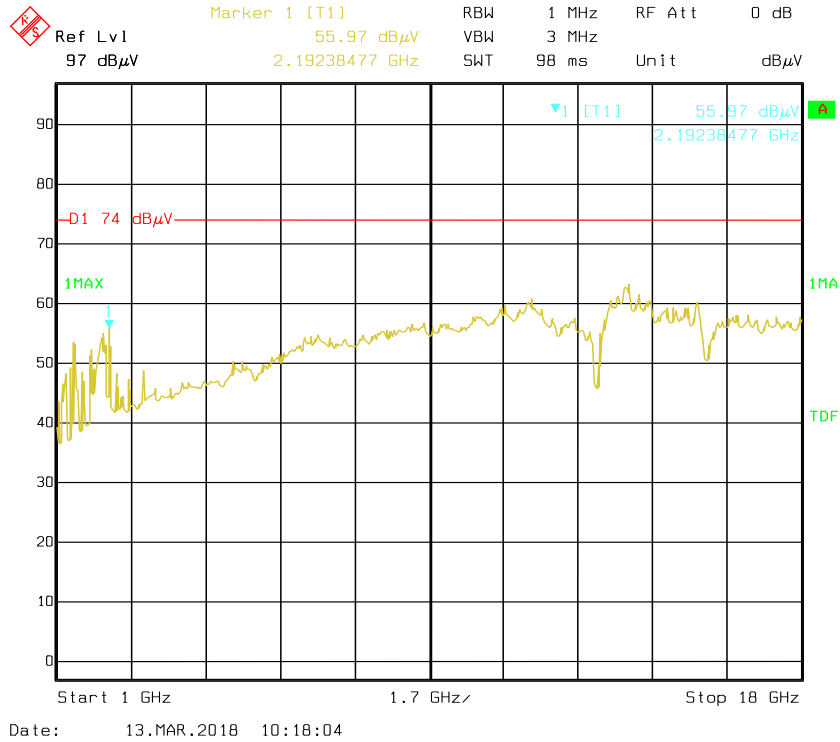
Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
30.397600	35.99	106.0	V	54.0	0.0	40.00	4.01
47.981000	37.00	101.0	V	0.0	-10.5	40.00	3.00
59.663375	35.05	108.0	V	124.0	-11.9	40.00	4.95
120.035375	32.16	106.0	V	29.0	-6.0	43.50	11.34
128.031750	31.63	112.0	V	26.0	-5.2	43.50	11.87
239.737125	42.68	193.0	H	309.0	-4.6	46.00	3.32

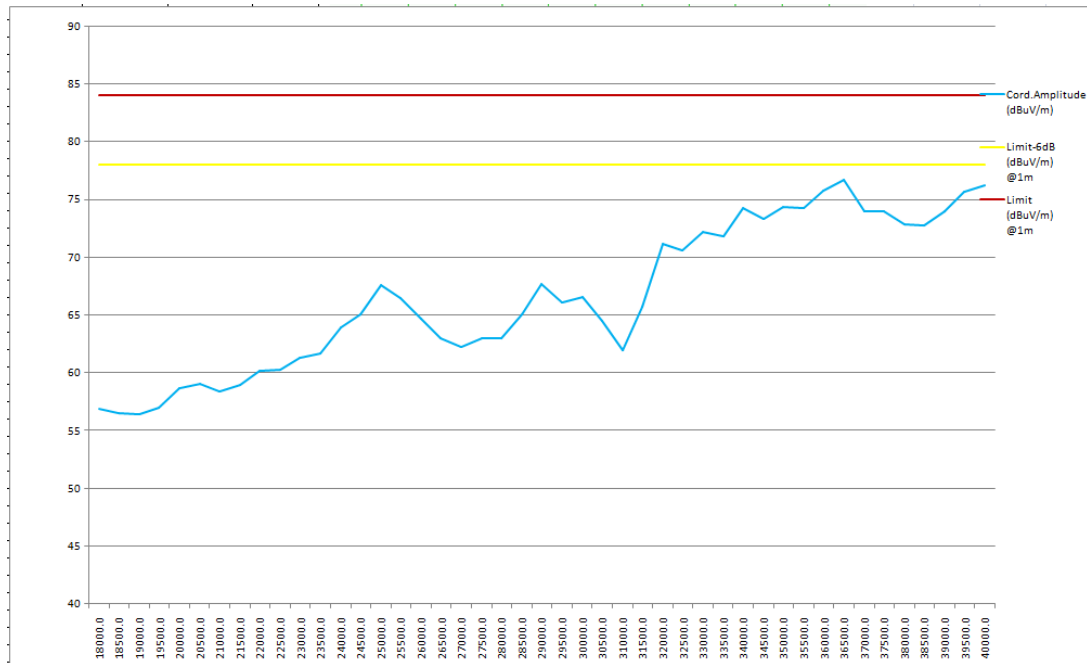
Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15B	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBμV/m)	Margin (dB)
Test mode: Charging & Playing									
1145.22	54.10	PK	133	1.4	H	-8.61	45.49	74	28.51
1145.22	50.21	Ave.	133	1.4	H	-8.61	41.60	54	12.40
1145.22	51.42	PK	51	1.7	H	-8.61	42.81	74	31.19
1145.22	47.50	Ave.	51	1.7	H	-8.61	38.89	54	15.11
1621.4	46.21	PK	319	1.7	H	-5.35	40.86	74	33.14
1621.4	29.99	Ave.	319	1.7	H	-5.35	24.64	54	29.36
1621.4	47.46	PK	229	1.2	H	-5.35	42.11	74	31.89
1621.4	30.02	Ave.	229	1.2	H	-5.35	24.67	54	29.33
Test mode: Downloading									
1145.22	54.10	PK	133	1.4	H	-8.61	45.49	74	28.51
1145.22	50.21	Ave.	133	1.4	H	-8.61	41.60	54	12.40
1145.22	51.42	PK	51	1.7	H	-8.61	42.81	74	31.19
1145.22	47.50	Ave.	51	1.7	H	-8.61	38.89	54	15.11
1621.4	46.21	PK	319	1.7	H	-5.35	40.86	74	33.14
1621.4	29.99	Ave.	319	1.7	H	-5.35	24.64	54	29.36
1621.4	47.46	PK	229	1.2	H	-5.35	42.11	74	31.89
1621.4	30.02	Ave.	229	1.2	H	-5.35	24.67	54	29.33

Note:

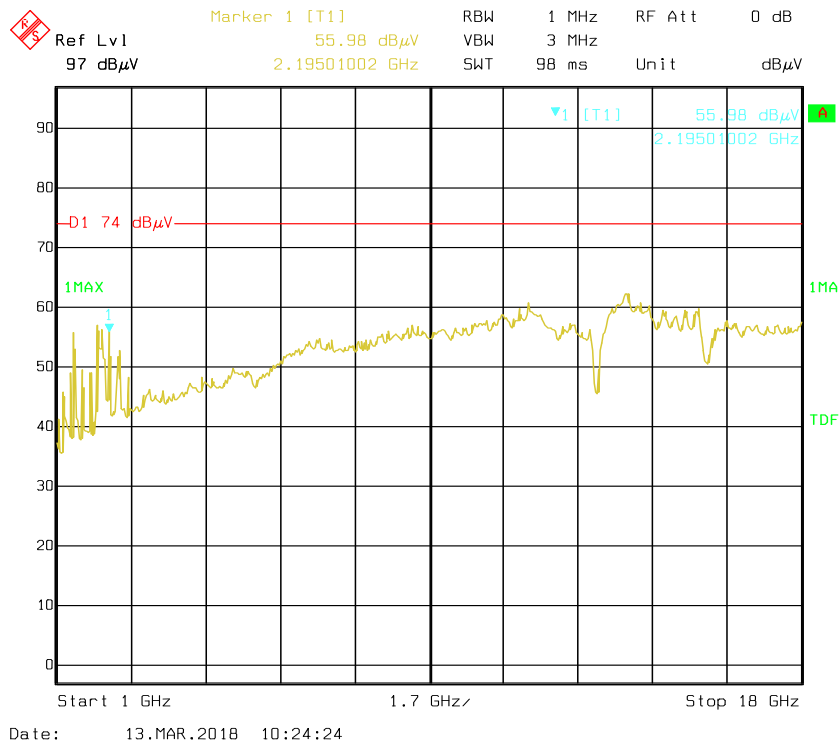
- 1) Correction Factor=Antenna factor (RX) + cable loss – amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit - Corrected Amplitude
- 4) All other spurious emissions are 20 dB below the limit or are on the system noise floor level.

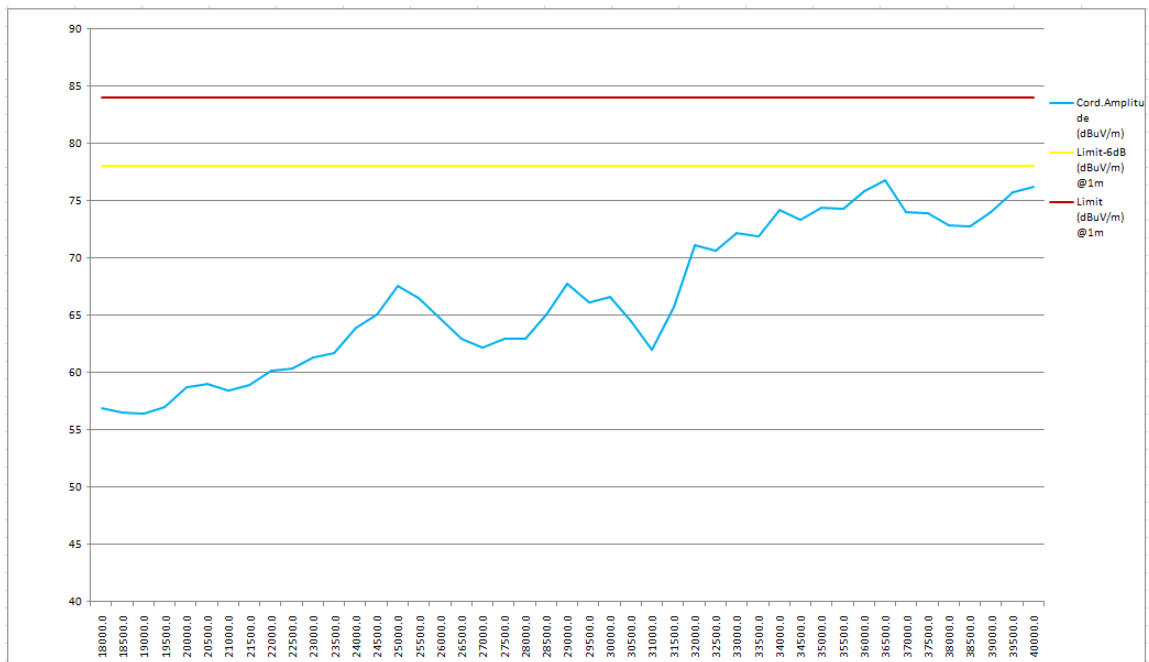
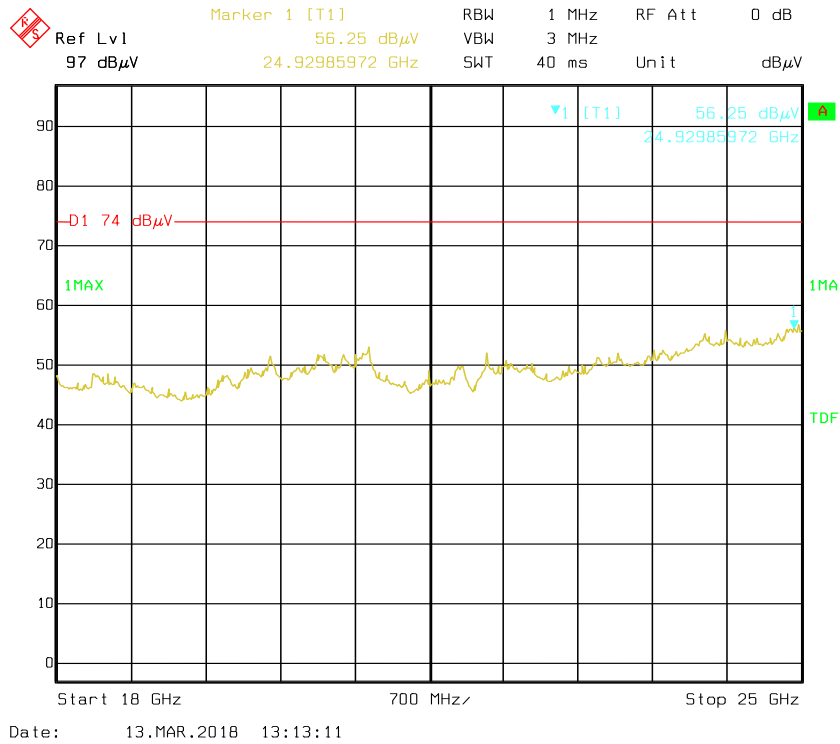
Pre-scan for downloading mode Horizontal





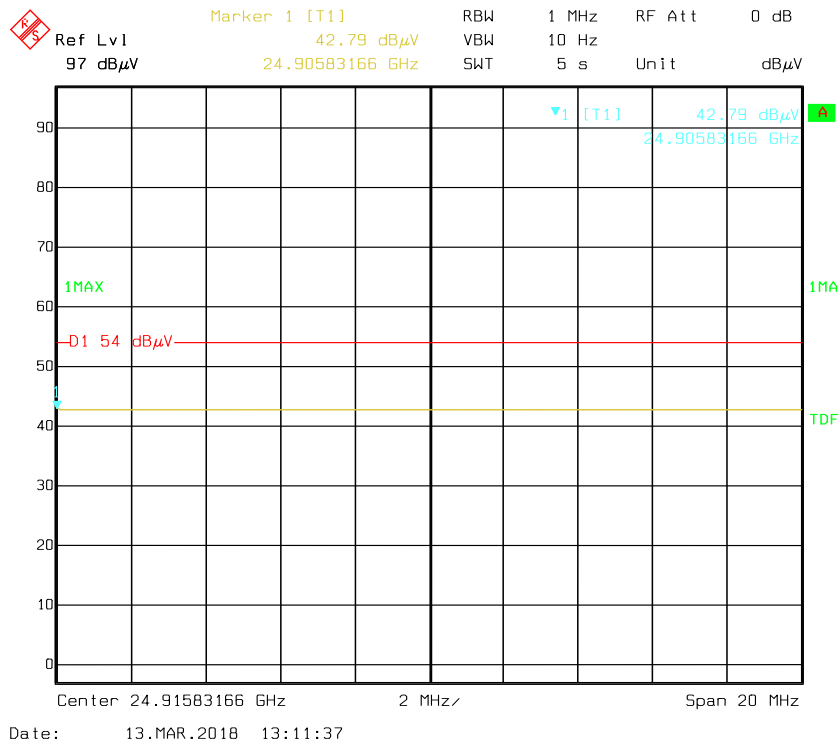
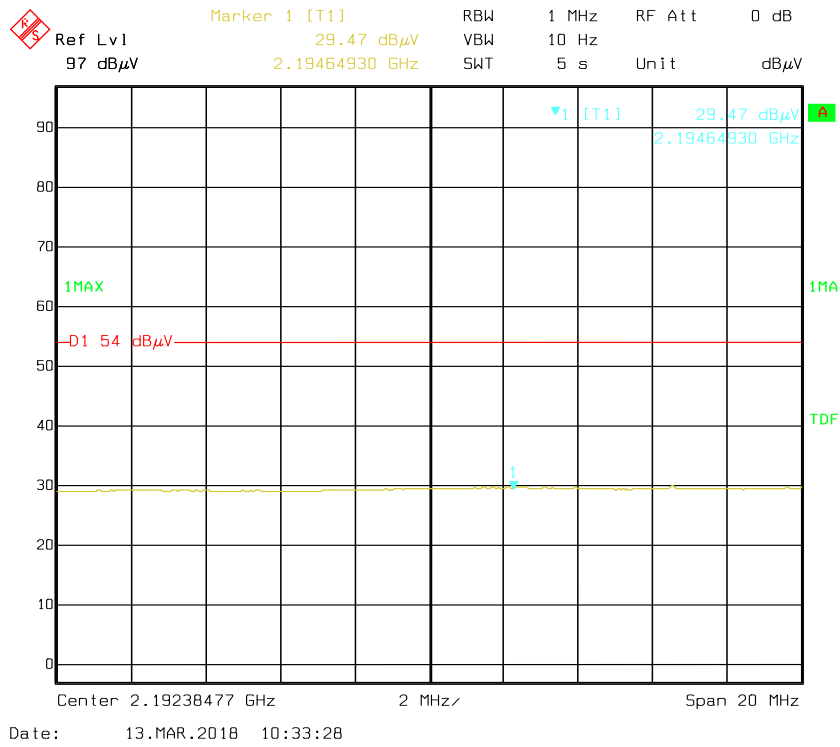
Pre-scan for downloading mode Vertical



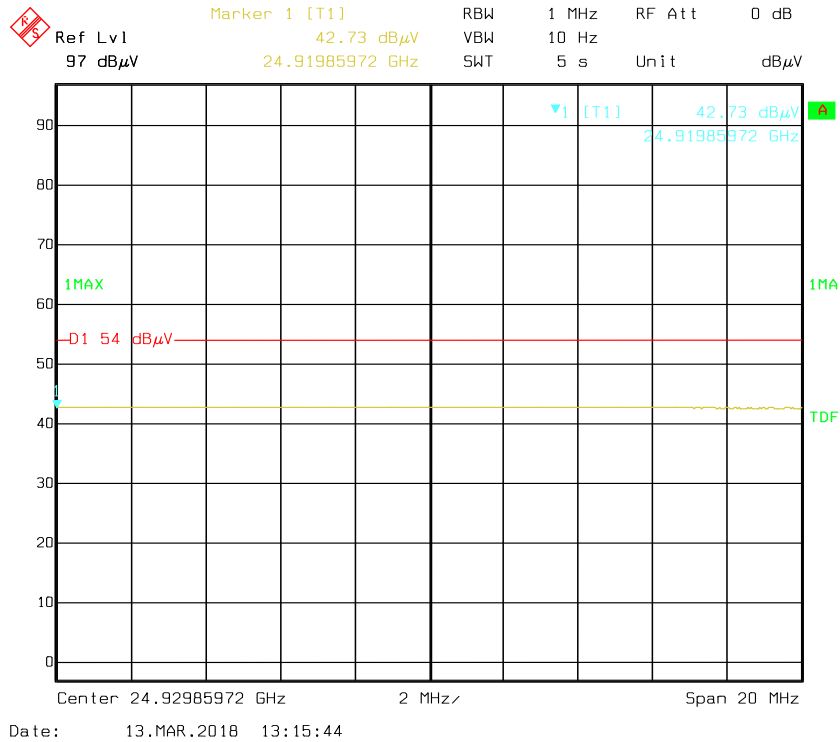
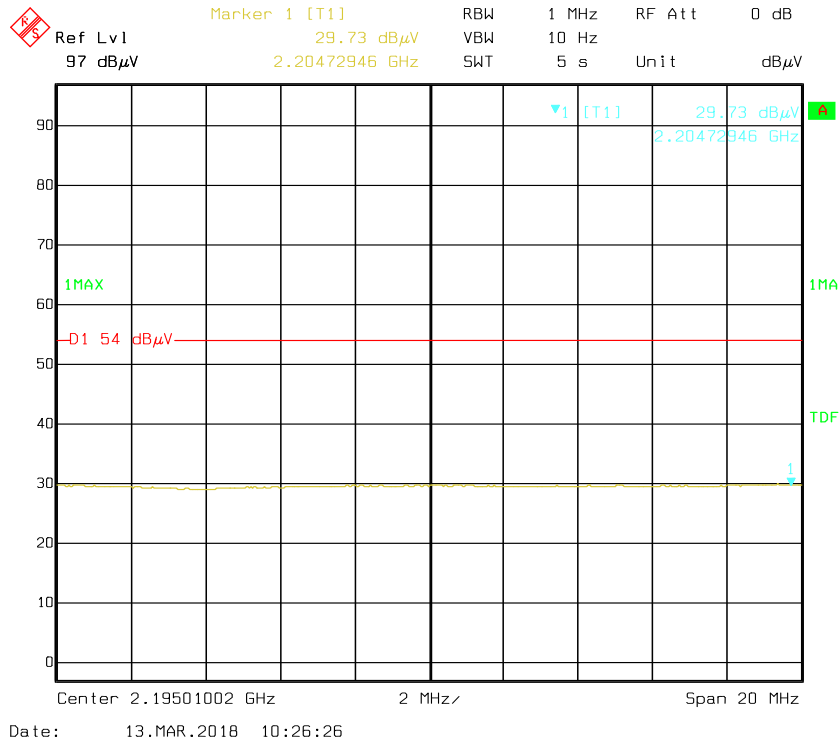


Average

Horizontal



Vertical



***** END OF REPORT *****