시 험 성 적 서
TEST REPORT

성적서 번호 Report No.		ICRT-TR-E210982-2C
신청자 Client	**기관명** Name	Elproma Elektronika Sp. z o.o.
	주 소 Address	ul. Duńska 2A, 05-152 Czosnów
시험대상품목 Sample description		TOLOGG
모델명 Type designation		TOLOGG-3.3-GL
정 격 Ratings		(DC 5 – 47) V
시험장소 Place of test		■ 고정시험(Inside test) □ 현장시험(Field test) 주소지(Address): 112, 113, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
시험기간 Date of test		2021. 04. 22 ~ 2021. 07. 09
시험방법/항목 Test Method/Item		FCC 47 CFR Part 15 Subpart B
시험결과 Test Results		Refer to summary of test results
확 인 Affirmation	작성자 Tested by 성 명 Name: 이수호 (서명) Lee, Suho(Signature)	기술책임자 Technical Manager 성 명 Name: 박명철 (서명) Park, Myeongcheol (Signature)

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This is certified that the above mentioned products have been tested for the sample

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2021. 09. 23

주식회사 아이씨알 대표이사

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112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea / Tel: 02-6351-9001 ~ 6

Contents

1. Applicant Information

1.1 Applicant

Applicant	:	Elproma Elektronika Sp. z o.o.
Address	:	ul. Duńska 2A, 05-152 Czosnów
Contact person	:	Mr. Piotr Wójcik
Telephone No.	:	48227517680
Facsimile No.	:	-
E-mail	:	p.wojcik@elpromaelectronics.com

1.2 Manufacture

Manufacture	:	Elproma Elektronika Sp. z o.o.
Address	:	ul. Duńska 2A, 05-152 Czosnów
Contact person	:	Mr. Piotr Wójcik
Telephone No.	:	48227517680
Facsimile No.	:	-
E-mail	:	p.wojcik@elpromaelectronics.com

2. Laboratory

2.1 Information

Laboratory	:	ICR Co., Ltd
Address	:	112, 113, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeinggi-do, Korea
Telephone No.	:	+82-2-6351-9001
Facsimile No.	:	+82-2-6351-9007
KOLAS No.	:	KT652
RRA No.	:	KR0165

3. Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E210982-0A	2021. 04. 27	-	-
ICRT-TR-E210982-1A	2021. 07. 14	Add operating modes for test	Refer to 4.4
ICRT-TR-E210982-2A	2021. 08. 10	Add Conducted Emission test	Refer to 7.2
ICRT-TR-E210982-2B	2021. 09. 03	ADD FCC ID, Delete Test photo	Refer to 4.7
ICRT-TR-E210982-2C	2021. 09. 23	ADD FCC ID	Refer to 4.7

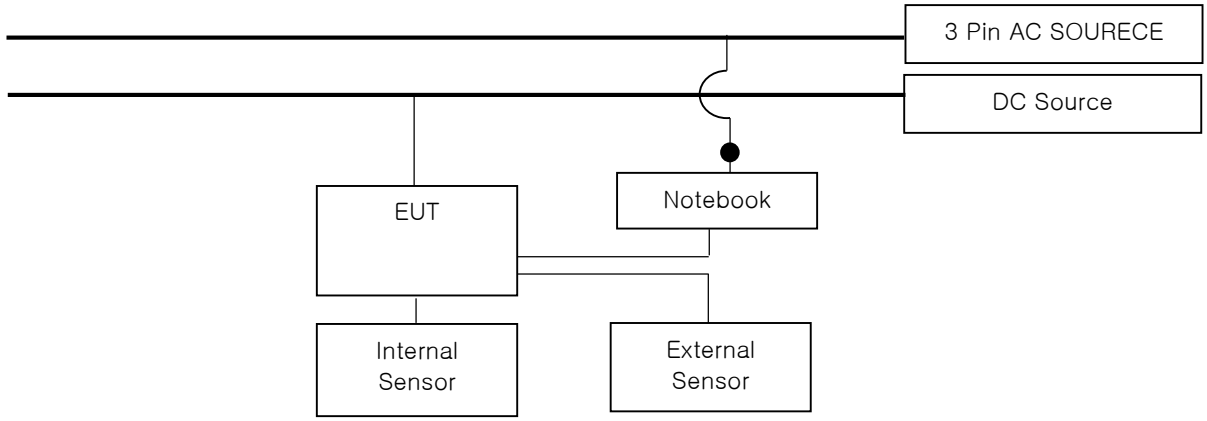
4. List of EUT and Accessory

4.1 Used equipment

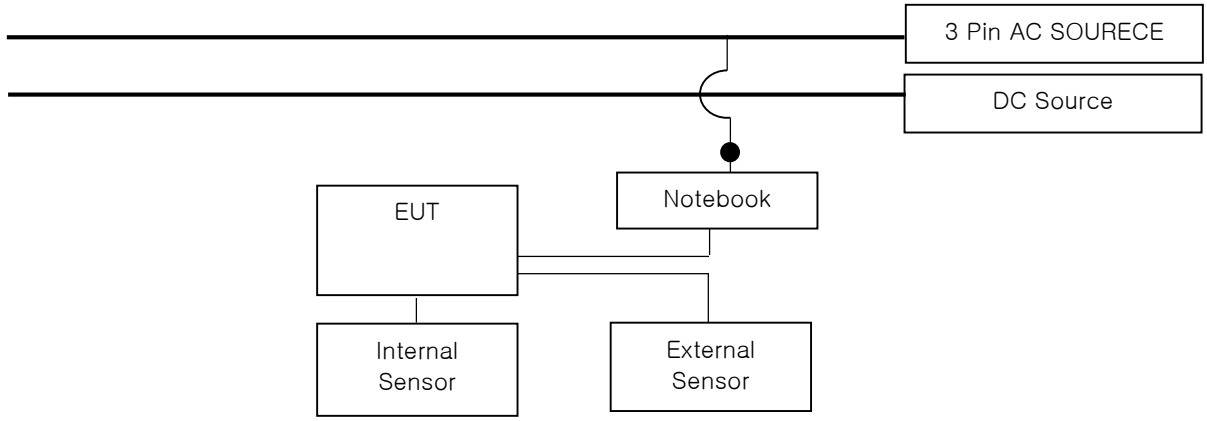
Description	Model	Manufacturer	Remark
TOLOGG	TOLOGG-3.3-GL	Elproma Elektronika Sp. z o.o.	EUT
Internal sensor	-	-	EUT
External sensor	-	-	EUT
Notebook	NT300ESK	SAMSUNG	AE
Notebook adapter	A13-040N2A	SAMSUNG	AE
Wideband Radio Communication	CMW500	R&S	AE

4.2 Test Configuration

[MODE 1]

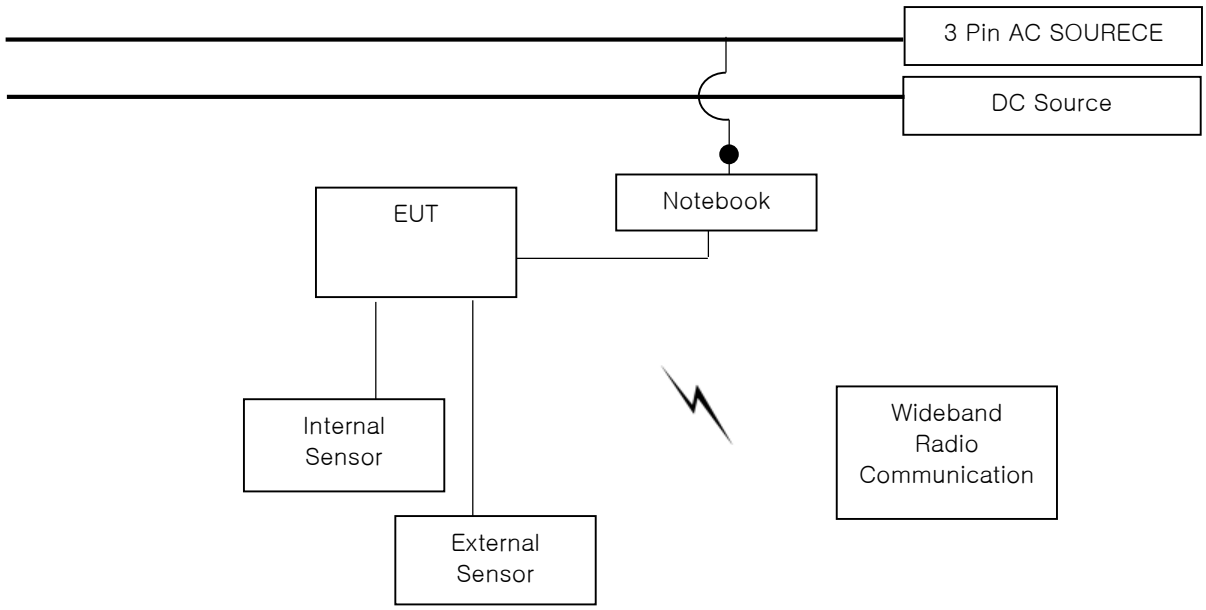


[MODE 2]



: Signal line : Power line : GROUND : Adapter

[MODE 3 ~ 11]



: Signal line : Power line : GROUND : Adapter

4.3 Cable List

Equipment	Port	Equipment	Port	Length (m)	Shielded
EUT (MODE 1)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	DC IN	DC SOURCE	DC OUT	1.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
EUT (MODE 2)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
EUT (MODE 3 ~ MODE 11)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
	RF	Wideband Radio Communication	-	-	Unshielded

4.4 Mode of Operating during the test

- **MODE 1 :** The EUT is connected as shown in the layout and tested in a charged state.
- **MODE 2 :** The EUT is connected as shown in the layout and the temperature data is checked with a Notebook.
- **MODE 3 :** EUT is connected as shown in the layout diagram and tested under the condition that GSM 850 communication is confirmed.
- **MODE 4 :** EUT is connected as shown in the layout diagram and tested under the condition that EGSM 900 communication is confirmed.
- **MODE 5 :** EUT is connected as shown in the layout diagram and tested under the condition that DCS 1800 communication is confirmed.
- **MODE 6 :** EUT is connected as shown in the layout diagram and tested under the condition that PCS 1900 communication is confirmed.
- **MODE 7 :** EUT is connected as shown in the layout diagram and tested under the condition that UMTS 800 communication is confirmed.
- **MODE 8 :** EUT is connected as shown in the layout diagram and tested under the condition that UMTS 850 communication is confirmed.
- **MODE 9 :** EUT is connected as shown in the layout diagram and tested under the condition that UMTS 900 communication is confirmed.
- **MODE 10 :** EUT is connected as shown in the layout diagram and tested under the condition that UMTS 1900 communication is confirmed.
- **MODE 11 :** EUT is connected as shown in the layout diagram and tested under the condition that UMTS 2100 communication is confirmed.

4.5 EUT Modifications

- None.

4.6 Family Model Name

- None.

4.7 FCC ID : 2A277TOLOGG33

5. Summary of test result

5.1 Test Summary

Standard	Test items	Applied	Results
FCC Part 15.109 (Class B)	Radiated disturbance	☒	**Pass**
FCC Part 15.107 (Class B)	Conducted disturbance	☒	**Pass**
* The data in this test report are traceable to the national or international standards.			

Frequency range to be scanned:

0.15 MHz to 30 MHz as Conducted measurement

5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower as Radiated measurement

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz ~ 30 MHz and 120 kHz in the frequency 30 MHz ~ 1 000 MHz.
Measured by the CISPR Peak function Bandwidth is 1 MHz in the frequency 1 GHz ~ 40 GHz.

6. Test Description

6.1 Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

6.2 Test Procedure

6.2.1 Radiated Disturbance Measurements – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m/10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors(120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- Trilog antenna are used as Broadband antenna.
- The Trilog antenna is used in the frequency range of 30 ~ 1 000MHz, the Horn antenna is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out by a ICR operator as manual operation.

– searching for some of High disturbance frequency points than the other points with the following settings;
bandwidth 100 kHz, frequency range 10 MHz between 30 MHz and 300 MHz and frequency range 50 MHz between 300 MHz and 1 GHz.
– searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
– setting the height of the antenna with the maximum level of the disturbance wave from 1 m ~ 4 m.
– reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
– measuring to vertical and horizontal polarization.
– calculating the measurement result with the following formula or equation:
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

6.2.2 Radiated Disturbance Measurements – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (1 MHz bandwidth) and an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- HORN ANTENNA are used as WIDEBAND ANTENNA.
- The HORN ANTENNA is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.

・Measurement is carried out by a ICR operator as manual operation.
– searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
– setting the height of the antenna with the maximum level of the disturbance wave from 1 m
– reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
– measuring to vertical and horizontal polarization.
– calculating the measurement result with the following formula or equation:
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

6.2.3 Conducted Disturbance Measurements

・The measurement is carried out on an open site with horizontal and metallic ground plane.
・An AMN(Artificial Mains Network) with a nominal impedance (50 Ω/50 μH) as defined in ANSIC 63.4-2014., shall be utilized.
・The AMN is grounded on a horizontal metal ground plane.
・Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector. (Refer to the List of test equipment used for the test.)
・The shortest distance between the EUT and the AMN is 0.8 m.
・The EUT is placed on the non-conducting table with 0.8 m height.
・A remote switch is used for changing phases between Line (L) and Neutral (N).
・Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
・Measurement is carried out as manual operation.
– detecting the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 1 kHz and the frequency range from 150 kHz ~ 1 MHz, 1 MHz ~ 5 MHz and 5 MHz ~ 30 MHz.
– searching the maximum frequency point of the disturbance wave in each frequency range.
– reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
– calculating the measurement result with the following formula or equation.
(Result = Reading + Corr)
(Margin = Limit - Result)

7. EMISSION

7.1 Radiated disturbance

Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

Test method	:	FCC Part 15.109, Class B
Test Date	:	2021. 04. 22 ~ 2021. 07. 09 (Below 1 GHz)
	:	2021. 04. 23 ~ 2021. 07. 09 (Above 1 GHz)
Temperature, Humidity	:	19.3 °C ~ 20.4 °C, 33.4 % R.H. ~ 34.4 % R.H. (Below 1 GHz)
	:	19.5 °C ~ 20.6 °C, 33.5 % R.H. ~ 34.5 % R.H. (Above 1 GHz)
Measurement Distance	:	3 m
Measurement Frequency range	:	30 MHz ~ 6 GHz
Measurement RBW	:	120 kHz, 1 000 kHz
Test mode	:	MODE 1, MODE 2, MODE 3 ~ 11
Result	:	Pass

A sample calculation:

- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.)
- Emission Level = meter reading + Corr
- Sample calculation; MODE 1
- Below 1 GHz (Quasi-Peak)

  At Frequency : 31.843 MHz Result = Reading + Corr = 60.64 (dBμV/m) + (-23.4) dB = 37.24 dB(μV/m)
- Above 1 GHz (CISPR-Average)

  At Frequency : 3 187.900 MHz Result = Reading + Corr = 33.95 (dBμV/m) + (-8.6) dB = 25.35 dB(μV/m)

Limits of below 1 GHz - CLASS A

Frequency Range (MHz)	Field strength (μV/m)	Distance (m)
30 ~ 88	90	10
88 ~ 216	150	
216 ~ 960	210	
Above 960	300	

Limits of below 1 GHz - CLASS B

Frequency Range (MHz)	Field strength (μV/m)	Distance (m)
30 ~ 88	100	3
88 ~ 216	150	
216 ~ 960	200	
Above 960	500	

Used equipments:

- Below 1 GHz

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☐	EMI Test Receiver	ESR7	R&S	101724	2022. 04. 14
☒	TRILOG BROAD BAND ANTENNA	VULB 9162	SCHWARZBECK	142	2023. 02. 03
☐	FERRITE CLAMP	EZ-24	R&S	100262	2021. 12. 07
☒	RF Pre Amplifier	SCU 08	R&S	100745	2022. 04. 14
☐	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63105	2022. 02. 25
☒	EMI Test Receiver	ESR26	R&S	101462	2022. 04. 14
☐	LOOP Antenna	HFH2-Z2	R&S	100506	2021. 06. 27
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63107	2022. 02. 25

- Above 1 GHz

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☒	EMI Test Receiver	ESR26	R&S	101462	2022. 04. 14
☒	HORN ANTENNA (KOLAS)	HF907	R&S	102556	2021. 08. 21
☒	HORN ANTENNA	LB-42-10-C-KF	AINFO Inc.	J202024625	2022. 03. 04
☒	RF Pre Amplifier	SCU 18	R&S	102342	2022. 04. 14
☒	RF Pre Amplifier	AMF-4F-18265-35-8P-1	MITEQ	771846	2022. 03. 04
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63106	2022. 02. 25

Test Software:

Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.00

Measurement Data:

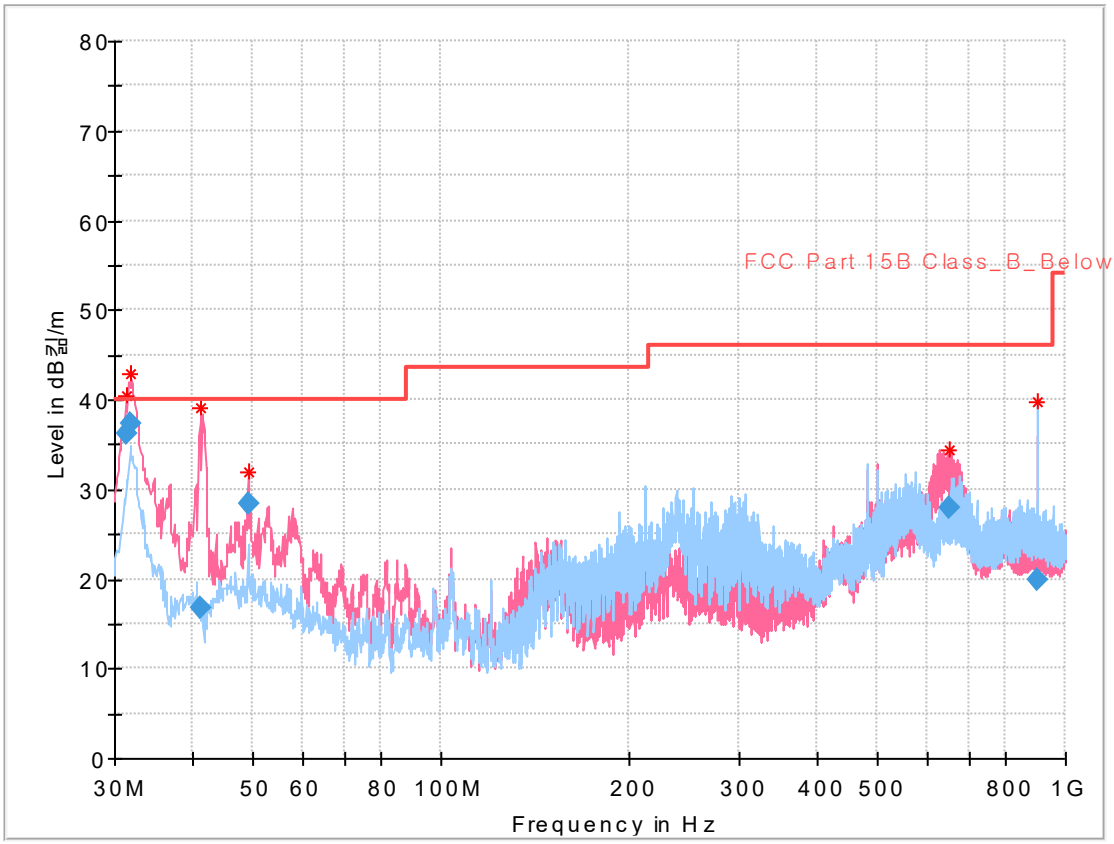
- Refer to the Next page.

DATA (Below 1 GHz : MODE 1)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 1



Final_Result

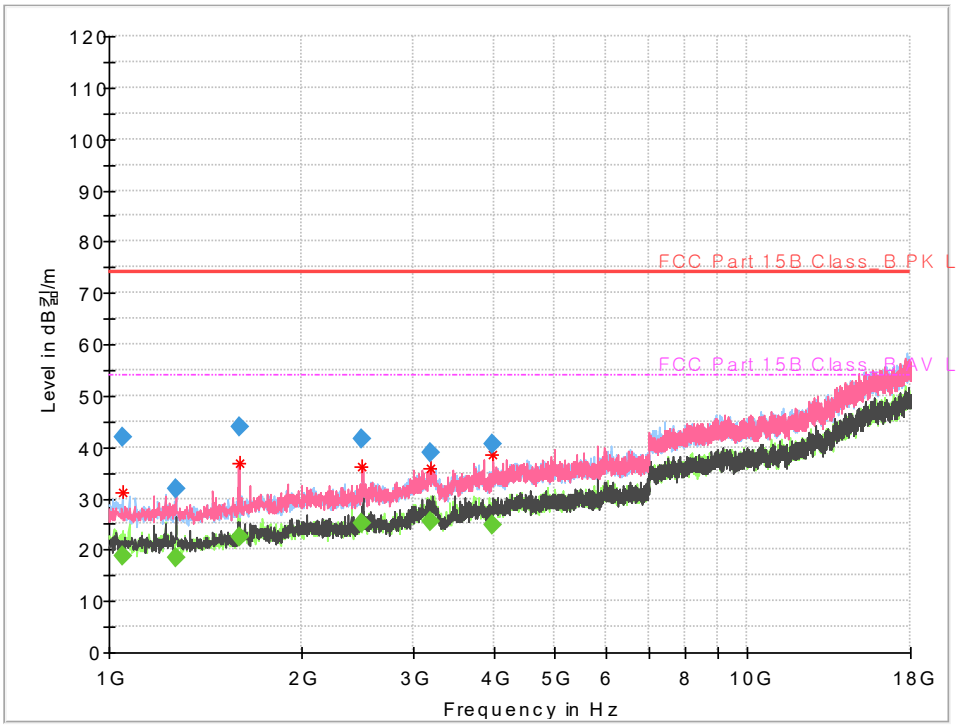
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	36.11	40.00	3.89	1000.0	120.000	100.0	V	64.0	-23.3
31.843	37.24	40.00	2.76	1000.0	120.000	100.0	V	274.0	-23.4
41.252	16.76	40.00	23.24	1000.0	120.000	400.0	V	186.0	-19.9
49.109	28.46	40.00	11.54	1000.0	120.000	100.0	V	212.0	-19.1
651.188	27.94	46.00	18.06	1000.0	120.000	100.0	V	247.0	-10.9
900.090	19.89	46.00	26.11	1000.0	120.000	100.0	H	227.0	-7.1

DATA (ABOVE 1 GHz : MODE 1)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 1



Final_Result

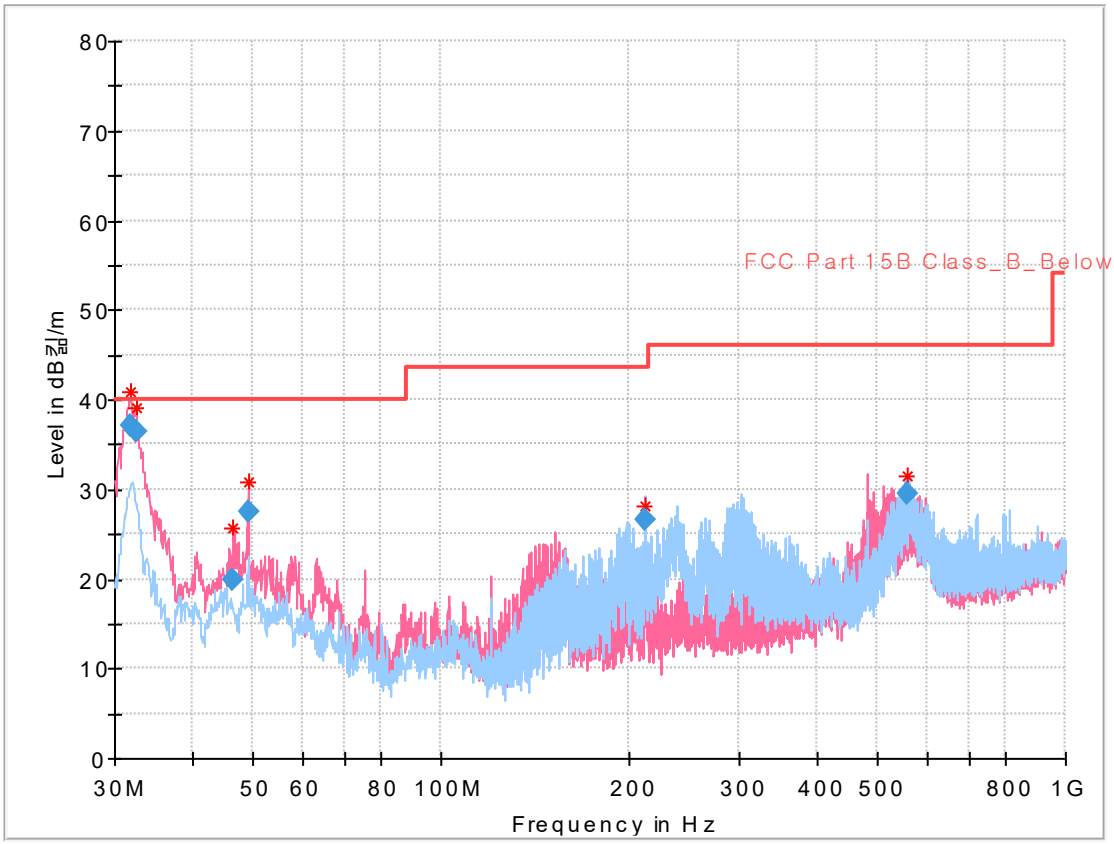
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1049.300	41.84	---	74.00	32.16	3000.0	1000.000	200.0	H	92.0	-18.9
1049.300	---	18.81	54.00	35.19	3000.0	1000.000	200.0	H	92.0	-18.9
1273.700	---	18.43	54.00	35.57	3000.0	1000.000	300.0	V	91.0	-18.3
1273.700	31.82	---	74.00	42.18	3000.0	1000.000	300.0	V	91.0	-18.3
1598.400	43.97	---	74.00	30.03	3000.0	1000.000	300.0	V	0.0	-16.3
1598.400	---	22.44	54.00	31.56	3000.0	1000.000	300.0	V	0.0	-16.3
2494.300	41.71	---	74.00	32.29	3000.0	1000.000	200.0	V	28.0	-12.6
2494.300	---	25.12	54.00	28.88	3000.0	1000.000	200.0	V	28.0	-12.6
3187.900	38.94	---	74.00	35.06	3000.0	1000.000	99.8	V	193.0	-8.6
3187.900	---	25.35	54.00	28.65	3000.0	1000.000	99.8	V	193.0	-8.6
3997.100	---	24.97	54.00	29.03	3000.0	1000.000	300.0	V	124.0	-7.2
3997.100	40.56	---	74.00	33.44	3000.0	1000.000	300.0	V	124.0	-7.2

DATA (Below 1 GHz : MODE 2)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 2



Final_Result

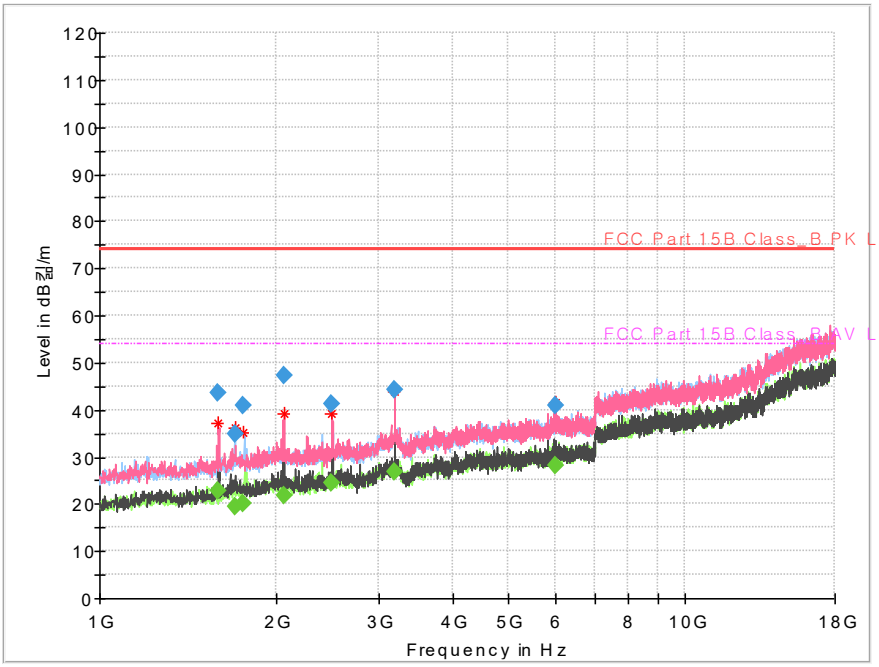
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	37.02	40.00	2.98	1000.0	120.000	100.1	V	248.0	-23.4
32.425	36.48	40.00	3.52	1000.0	120.000	100.1	V	185.0	-23.1
46.490	19.87	40.00	20.13	1000.0	120.000	100.1	V	142.0	-19.0
49.109	27.45	40.00	12.55	1000.0	120.000	100.1	V	284.0	-19.1
211.875	26.53	43.50	16.97	1000.0	120.000	100.1	H	110.0	-21.1
557.971	29.46	46.00	16.54	1000.0	120.000	400.0	H	65.0	-12.1

DATA (Above 1 GHz : MODE 2)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 2



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1595.518	43.43	---	74.00	30.57	3000.0	1000.000	300.0	V	0.0	-16.4
1595.518	---	22.80	54.00	31.20	3000.0	1000.000	300.0	V	0.0	-16.4
1704.138	34.70	---	74.00	39.30	3000.0	1000.000	300.0	H	126.0	-15.6
1704.138	---	19.44	54.00	34.56	3000.0	1000.000	300.0	H	126.0	-15.6
1763.482	---	20.15	54.00	33.85	3000.0	1000.000	199.6	H	61.0	-15.4
1763.482	41.02	---	74.00	32.98	3000.0	1000.000	199.6	H	61.0	-15.4
2061.731	47.35	---	74.00	26.65	3000.0	1000.000	300.0	V	30.0	-13.5
2061.731	---	21.77	54.00	32.23	3000.0	1000.000	300.0	V	30.0	-13.5
2488.829	41.37	---	74.00	32.63	3000.0	1000.000	199.6	V	30.0	-12.7
2488.829	---	24.42	54.00	29.58	3000.0	1000.000	199.6	V	30.0	-12.7
3185.331	44.10	---	74.00	29.90	3000.0	1000.000	300.0	V	355.0	-8.6
3185.331	---	26.72	54.00	27.28	3000.0	1000.000	300.0	V	355.0	-8.6
6000.461	40.91	---	74.00	33.09	3000.0	1000.000	199.6	V	0.0	-2.5
6000.461	---	28.07	54.00	25.93	3000.0	1000.000	199.6	V	0.0	-2.5

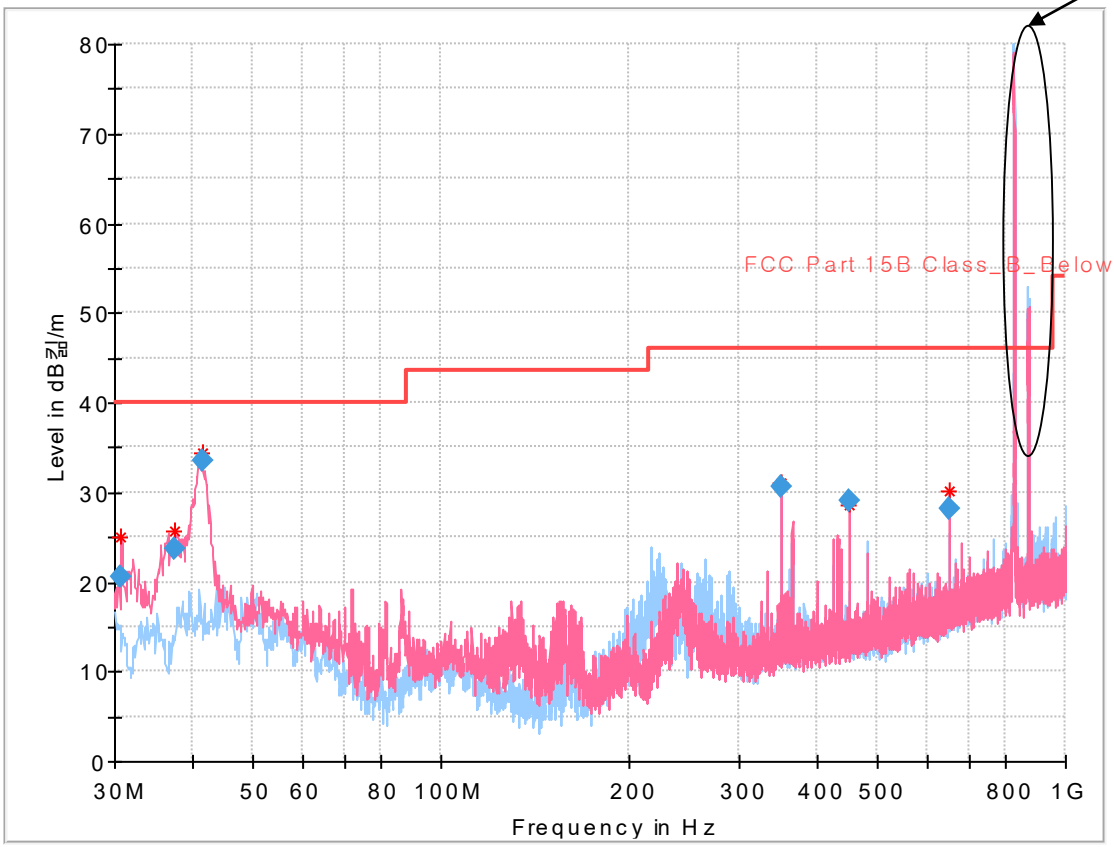
DATA (Below 1 GHz : MODE 3_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 3_LOW

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.776	20.56	40.00	19.44	1000.0	120.000	100.0	V	333.0	-23.2
37.469	23.69	40.00	16.31	1000.0	120.000	100.0	V	252.0	-21.3
41.446	33.63	40.00	6.37	1000.0	120.000	100.0	V	238.0	-19.9
350.003	30.54	46.00	15.46	1000.0	120.000	100.0	V	0.0	-16.1
450.010	29.00	46.00	17.00	1000.0	120.000	100.0	V	129.0	-14.4
650.024	28.22	46.00	17.78	1000.0	120.000	100.0	V	100.0	-11.0

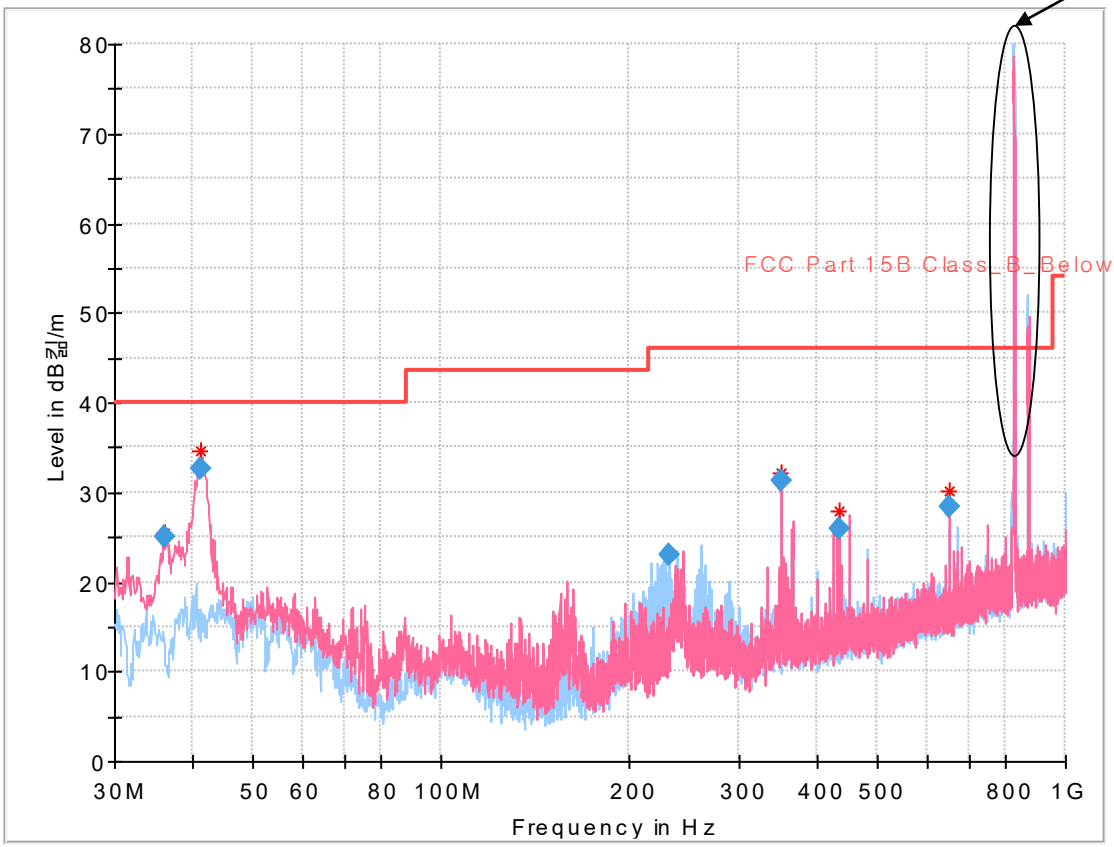
DATA (Below 1 GHz : MODE 3_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 3_MID

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	25.08	40.00	14.92	1000.0	120.000	100.0	V	333.0	-22.2
41.155	32.73	40.00	7.27	1000.0	120.000	100.0	V	7.0	-20.1
232.536	22.97	46.00	23.03	1000.0	120.000	100.0	H	250.0	-19.8
350.003	31.18	46.00	14.82	1000.0	120.000	100.0	V	32.0	-16.1
433.035	25.95	46.00	20.05	1000.0	120.000	100.0	V	144.0	-14.8
650.024	28.30	46.00	17.70	1000.0	120.000	100.0	V	132.0	-11.0

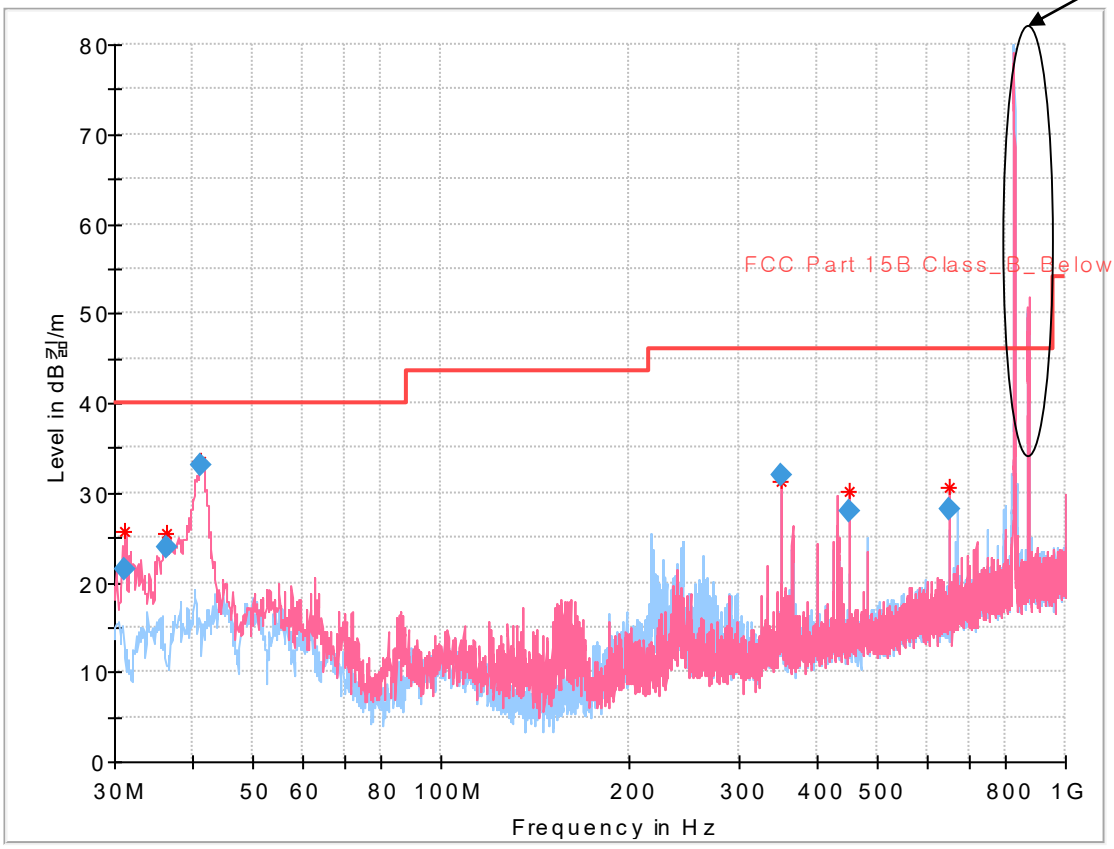
DATA (Below 1 GHz : MODE 3_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 3_HIGH

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final_Result

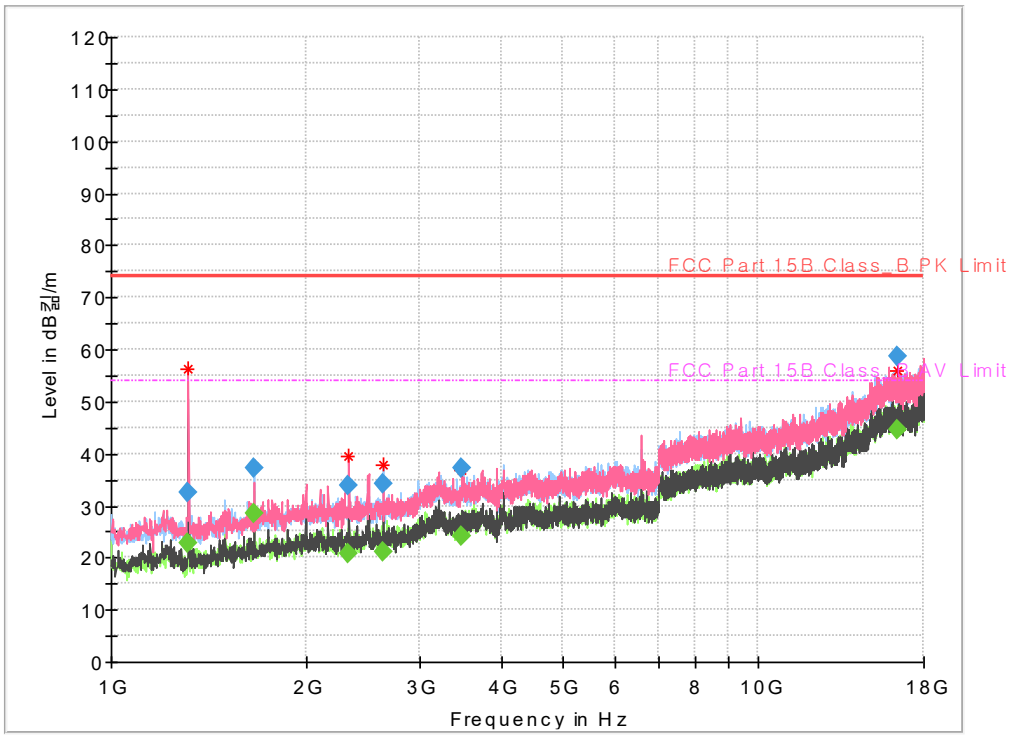
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.164	21.54	40.00	18.46	1000.0	120.000	100.0	V	327.0	-23.4
36.402	23.87	40.00	16.13	1000.0	120.000	100.0	V	241.0	-22.1
41.155	33.18	40.00	6.82	1000.0	120.000	100.0	V	186.0	-20.1
350.003	31.98	46.00	14.02	1000.0	120.000	100.0	V	24.0	-16.1
450.010	27.87	46.00	18.13	1000.0	120.000	100.0	V	145.0	-14.4
650.024	28.25	46.00	17.75	1000.0	120.000	100.0	V	132.0	-11.0

DATA (Above 1 GHz : MODE 3_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 3_LOW



Final_Result

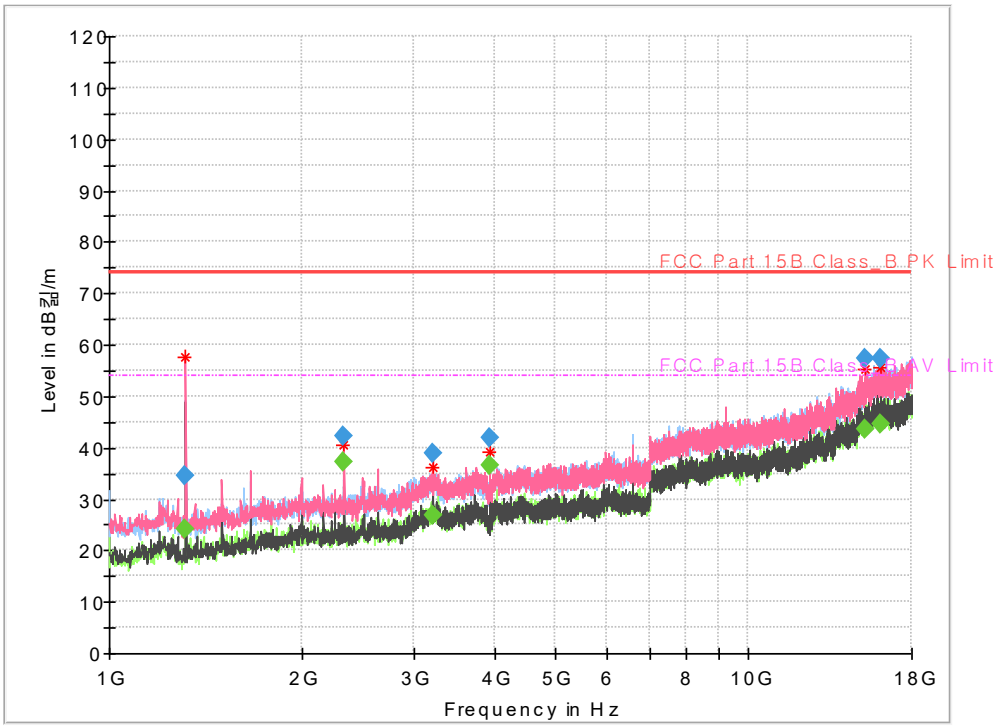
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	---	22.84	54.00	31.16	1000.0	1000.000	99.9	V	287.0	-18.7
1314.500	32.63	---	74.00	41.37	1000.0	1000.000	99.9	V	287.0	-18.7
1664.700	37.23	---	74.00	36.77	1000.0	1000.000	99.9	H	117.0	-15.9
1664.700	---	28.59	54.00	25.41	1000.0	1000.000	99.9	H	117.0	-15.9
2329.400	33.69	---	74.00	40.31	1000.0	1000.000	99.9	V	108.0	-13.3
2329.400	---	20.72	54.00	33.28	1000.0	1000.000	99.9	V	108.0	-13.3
2630.300	34.19	---	74.00	39.81	1000.0	1000.000	99.9	H	262.0	-11.7
2630.300	---	21.06	54.00	32.94	1000.0	1000.000	99.9	H	262.0	-11.7
3488.800	---	24.16	54.00	29.84	1000.0	1000.000	99.9	V	177.0	-7.6
3488.800	37.29	---	74.00	36.71	1000.0	1000.000	99.9	V	177.0	-7.6
16436.000	58.54	---	74.00	15.46	1000.0	1000.000	99.9	H	226.0	9.0
16436.000	---	44.43	54.00	9.57	1000.0	1000.000	99.9	H	226.0	9.0

DATA (Above 1 GHz : MODE 3_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 3_MID



Final_Result

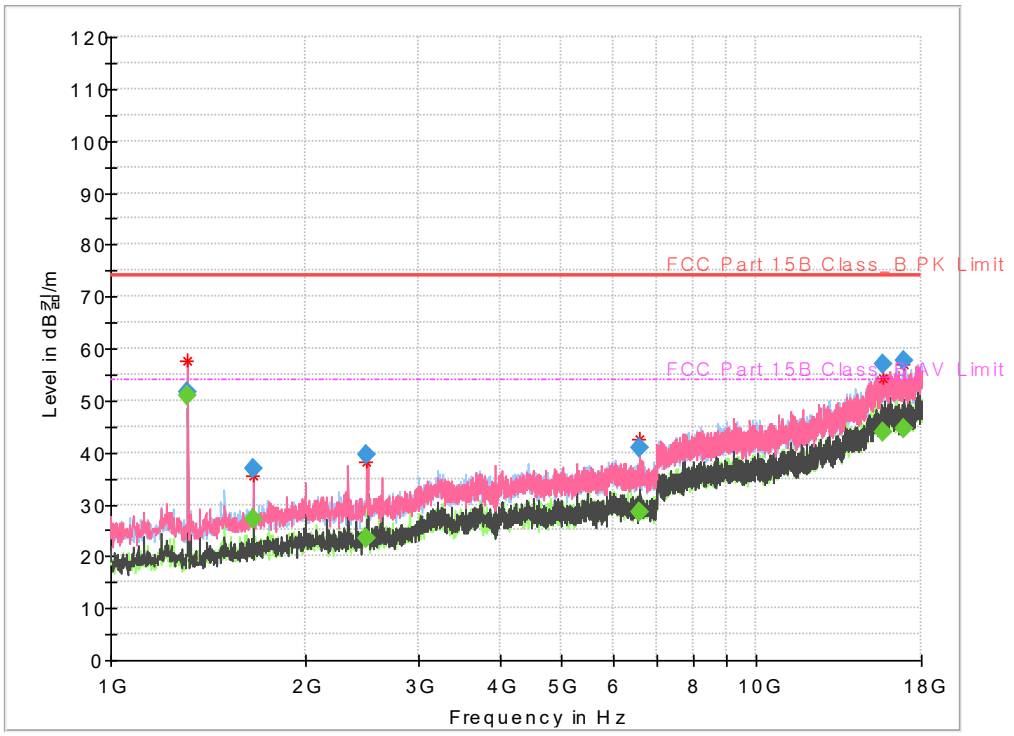
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	34.38	---	74.00	39.62	1000.0	1000.000	99.9	V	283.0	-18.7
1314.500	---	24.19	54.00	29.81	1000.0	1000.000	99.9	V	283.0	-18.7
2331.100	42.11	---	74.00	31.89	1000.0	1000.000	99.9	V	107.0	-13.3
2331.100	---	37.25	54.00	16.75	1000.0	1000.000	99.9	V	107.0	-13.3
3199.800	38.93	---	74.00	35.07	1000.0	1000.000	99.9	H	76.0	-8.0
3199.800	---	26.77	54.00	27.23	1000.0	1000.000	99.9	H	76.0	-8.0
3947.800	41.81	---	74.00	32.19	1000.0	1000.000	99.9	V	248.0	-6.6
3947.800	---	36.56	54.00	17.44	1000.0	1000.000	99.9	V	248.0	-6.6
15266.400	57.19	---	74.00	16.81	1000.0	1000.000	99.9	V	4.0	9.1
15266.400	---	43.45	54.00	10.55	1000.0	1000.000	99.9	V	4.0	9.1
16062.000	57.26	---	74.00	16.74	1000.0	1000.000	99.9	V	214.0	9.4
16062.000	---	44.63	54.00	9.37	1000.0	1000.000	99.9	V	214.0	9.4

DATA (Above 1 GHz : MODE 3_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 3_HIGH



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	51.64	---	74.00	22.36	1000.0	1000.000	99.9	V	285.0	-18.6
1316.200	---	50.80	54.00	3.20	1000.0	1000.000	99.9	V	285.0	-18.6
1664.700	36.84	---	74.00	37.16	1000.0	1000.000	99.9	H	116.0	-15.9
1664.700	---	27.25	54.00	26.75	1000.0	1000.000	99.9	H	116.0	-15.9
2492.600	39.70	---	74.00	34.30	1000.0	1000.000	99.9	V	140.0	-12.5
2492.600	---	23.32	54.00	30.68	1000.0	1000.000	99.9	V	140.0	-12.5
6579.400	40.93	---	74.00	33.07	1000.0	1000.000	99.9	H	247.0	-2.3
6579.400	---	28.33	54.00	25.67	1000.0	1000.000	99.9	H	247.0	-2.3
15727.100	---	44.07	54.00	9.93	1000.0	1000.000	99.9	H	247.0	9.0
15727.100	56.84	---	74.00	17.16	1000.0	1000.000	99.9	H	247.0	9.0
16947.700	---	44.42	54.00	9.58	1000.0	1000.000	99.9	H	247.0	9.5
16947.700	57.80	---	74.00	16.20	1000.0	1000.000	99.9	H	247.0	9.5

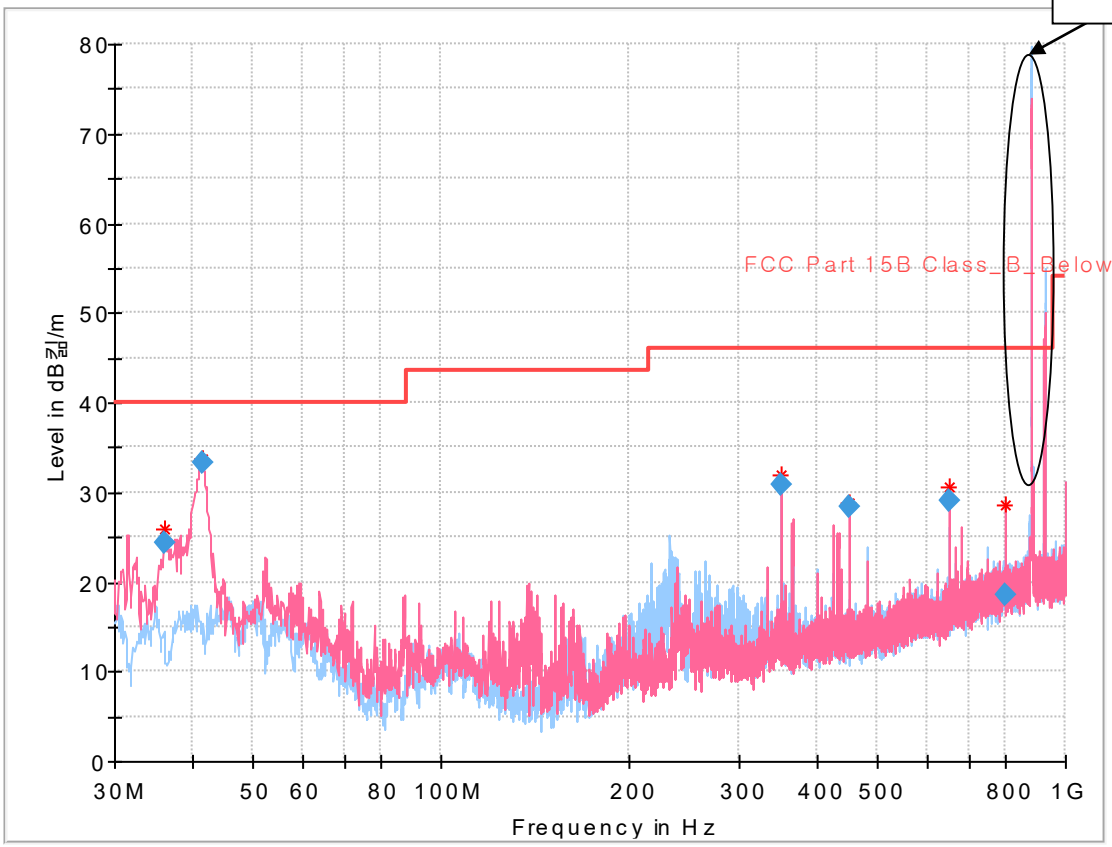
DATA (Below 1 GHz : MODE 4_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 4_LOW

EGSM 900
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final_Result

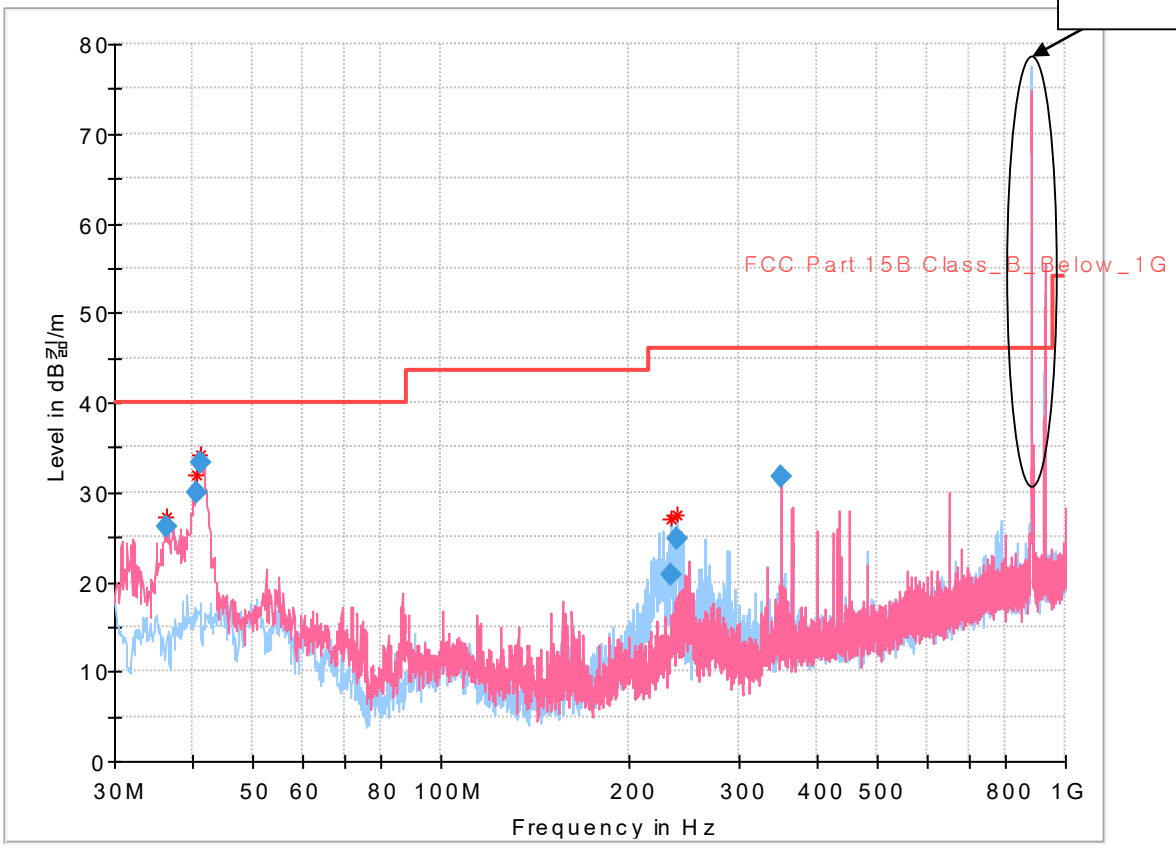
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	24.34	40.00	15.66	1000.0	120.000	100.0	V	1.0	-22.2
41.446	33.32	40.00	6.68	1000.0	120.000	100.0	V	218.0	-19.9
350.003	30.87	46.00	15.13	1000.0	120.000	100.0	V	32.0	-16.1
450.010	28.36	46.00	17.64	1000.0	120.000	100.0	V	142.0	-14.4
650.024	28.97	46.00	17.03	1000.0	120.000	100.0	V	128.0	-11.0
800.083	18.58	46.00	27.42	1000.0	120.000	100.0	V	259.0	-8.4

DATA (Below 1 GHz : MODE 4_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 4_MID



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	26.24	40.00	13.76	1000.0	120.000	100.0	V	263.0	-22.1
40.476	30.04	40.00	9.96	1000.0	120.000	100.0	V	80.0	-20.4
41.252	33.36	40.00	6.64	1000.0	120.000	100.0	V	184.0	-20.0
233.506	20.85	46.00	25.15	1000.0	120.000	100.0	H	219.0	-19.7
238.647	24.75	46.00	21.25	1000.0	120.000	100.0	H	219.0	-19.6
350.003	31.81	46.00	14.19	1000.0	120.000	100.0	V	26.0	-16.1

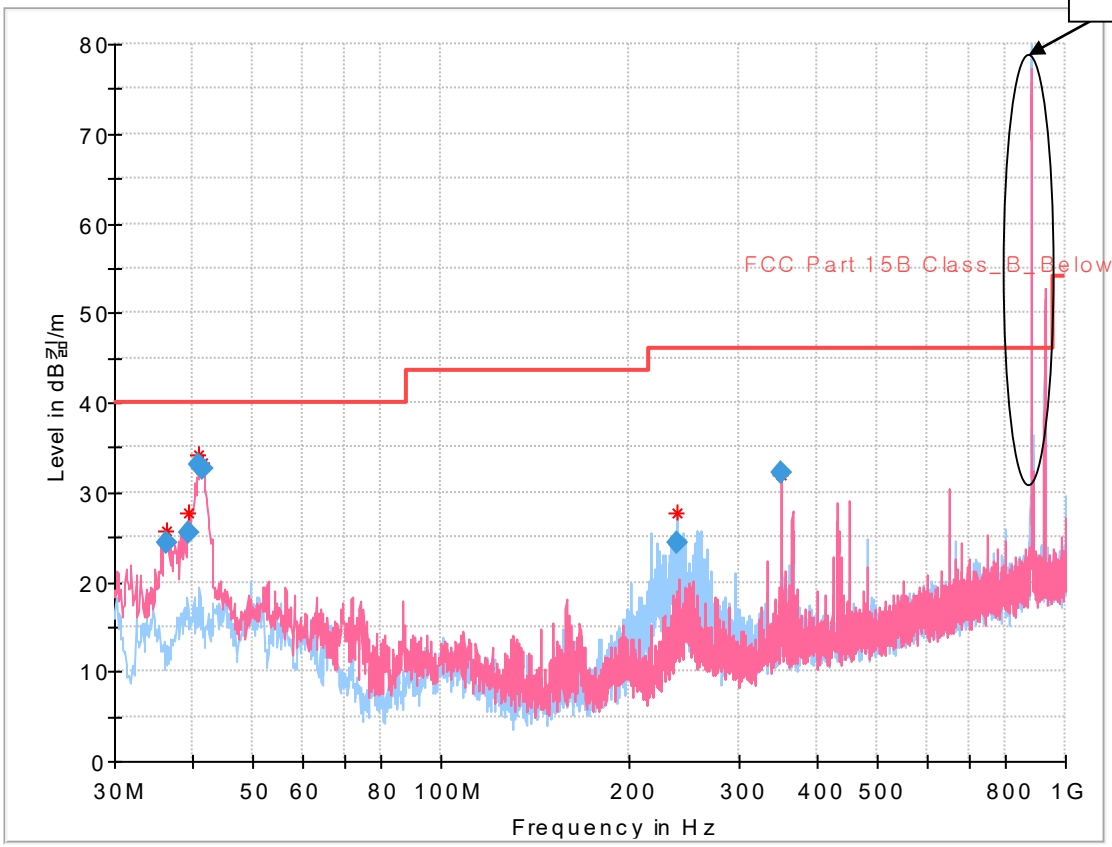
DATA (Below 1 GHz : MODE 4_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 4_HIGH

EGSM 900
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final_Result

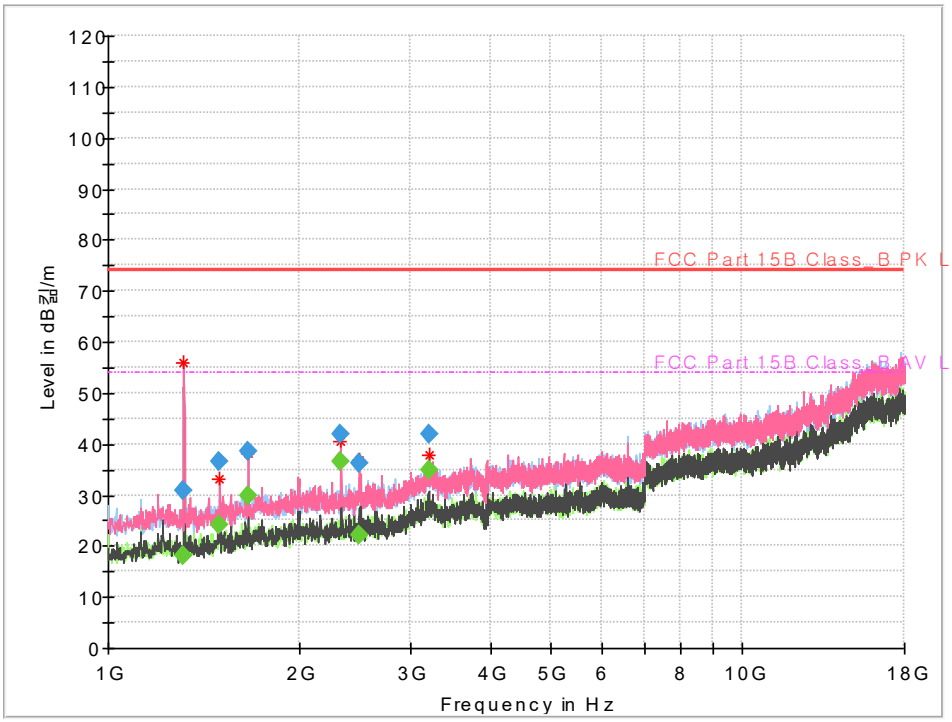
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	24.27	40.00	15.73	1000.0	120.000	100.0	V	69.0	-22.1
39.409	25.37	40.00	14.63	1000.0	120.000	100.0	V	110.0	-20.6
40.961	32.98	40.00	7.02	1000.0	120.000	100.0	V	207.0	-20.2
41.640	32.58	40.00	7.42	1000.0	120.000	100.0	V	207.0	-19.8
239.035	24.43	46.00	21.57	1000.0	120.000	100.0	H	219.0	-19.6
350.003	32.26	46.00	13.74	1000.0	120.000	100.0	V	14.0	-16.1

DATA (Above 1 GHz : MODE 4_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 4_LOW



Final_Result

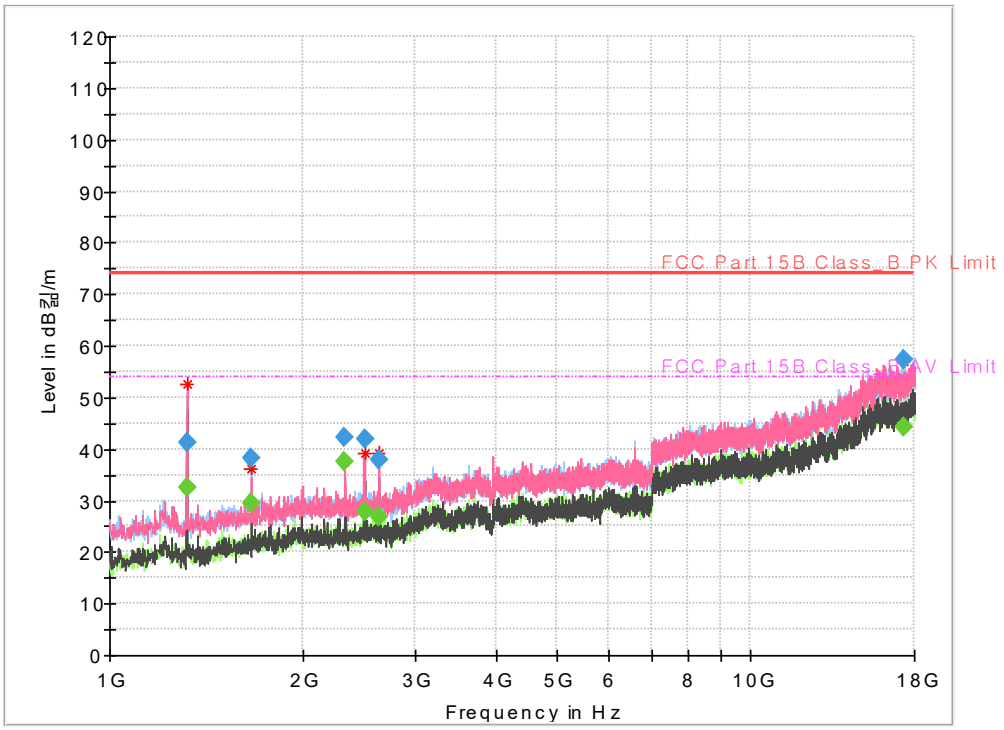
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	---	18.17	54.00	35.83	1000.0	1000.000	99.9	V	325.0	-18.6
1316.200	30.73	---	74.00	43.27	1000.0	1000.000	99.9	V	325.0	-18.6
1499.800	---	24.03	54.00	29.97	1000.0	1000.000	99.9	V	146.0	-16.7
1499.800	36.39	---	74.00	37.61	1000.0	1000.000	99.9	V	146.0	-16.7
1664.700	---	29.84	54.00	24.16	1000.0	1000.000	99.9	H	121.0	-15.9
1664.700	38.47	---	74.00	35.53	1000.0	1000.000	99.9	H	121.0	-15.9
2331.100	41.82	---	74.00	32.18	1000.0	1000.000	99.9	V	112.0	-13.3
2331.100	---	36.68	54.00	17.32	1000.0	1000.000	99.9	V	112.0	-13.3
2490.900	---	22.01	54.00	31.99	1000.0	1000.000	99.9	V	146.0	-12.5
2490.900	36.05	---	74.00	37.95	1000.0	1000.000	99.9	V	146.0	-12.5
3199.800	41.98	---	74.00	32.02	1000.0	1000.000	99.9	V	45.0	-8.0
3199.800	---	34.88	54.00	19.12	1000.0	1000.000	99.9	V	45.0	-8.0

DATA (Above 1 GHz : MODE 4_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 4_MID



Final_Result

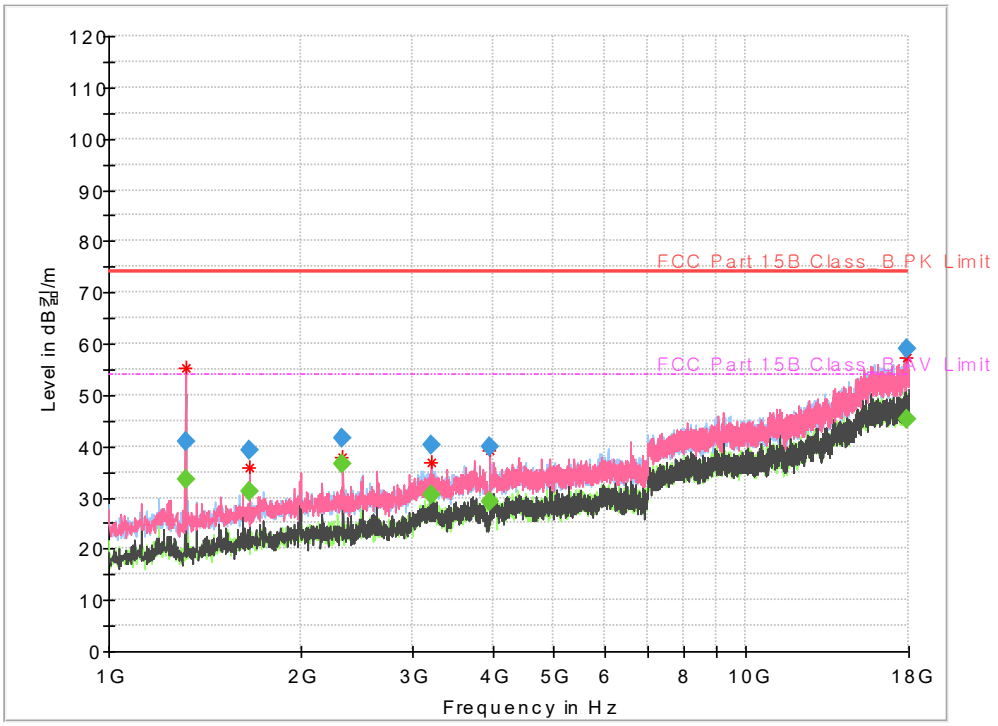
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	32.66	54.00	21.34	1000.0	1000.000	99.9	V	279.0	-18.6
1317.900	41.28	---	74.00	32.72	1000.0	1000.000	99.9	V	279.0	-18.6
1664.700	38.20	---	74.00	35.80	1000.0	1000.000	99.9	H	111.0	-15.9
1664.700	---	29.61	54.00	24.39	1000.0	1000.000	99.9	H	111.0	-15.9
2331.100	---	37.66	54.00	16.34	1000.0	1000.000	99.9	V	102.0	-13.3
2331.100	42.39	---	74.00	31.61	1000.0	1000.000	99.9	V	102.0	-13.3
2497.700	---	27.70	54.00	26.30	1000.0	1000.000	99.9	V	137.0	-12.5
2497.700	41.83	---	74.00	32.17	1000.0	1000.000	99.9	V	137.0	-12.5
2637.100	---	26.86	54.00	27.14	1000.0	1000.000	99.9	V	242.0	-11.7
2637.100	37.92	---	74.00	36.08	1000.0	1000.000	99.9	V	242.0	-11.7
17377.800	57.38	---	74.00	16.62	1000.0	1000.000	99.9	H	292.0	9.7
17377.800	---	44.15	54.00	9.85	1000.0	1000.000	99.9	H	292.0	9.7

DATA (Above 1 GHz : MODE 4_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 4_HIGH



Final_Result

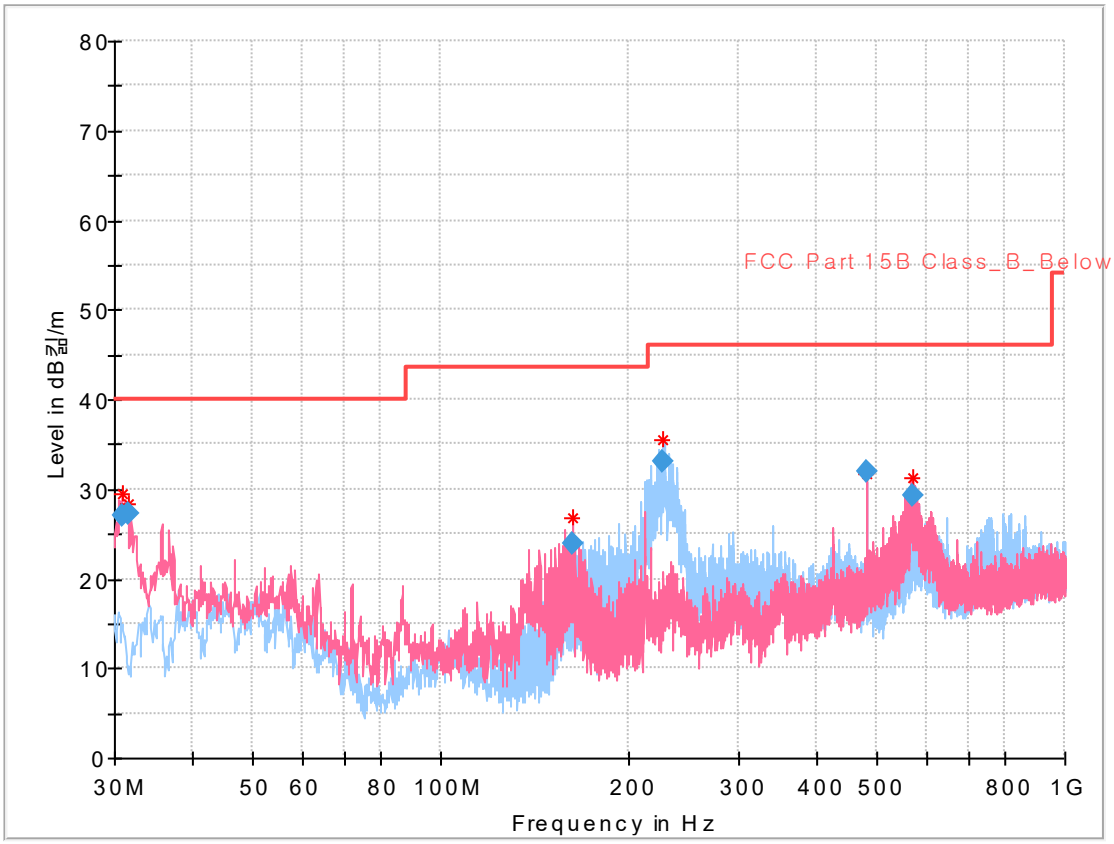
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	40.73	---	74.00	33.27	1000.0	1000.000	99.9	V	322.0	-18.6
1317.900	---	33.55	54.00	20.45	1000.0	1000.000	99.9	V	322.0	-18.6
1664.700	39.12	---	74.00	34.88	1000.0	1000.000	99.9	V	110.0	-15.9
1664.700	---	31.07	54.00	22.93	1000.0	1000.000	99.9	V	110.0	-15.9
2331.100	41.71	---	74.00	32.29	1000.0	1000.000	99.9	V	110.0	-13.3
2331.100	---	36.38	54.00	17.62	1000.0	1000.000	99.9	V	110.0	-13.3
3199.800	---	30.60	54.00	23.40	1000.0	1000.000	99.9	V	110.0	-8.0
3199.800	40.27	---	74.00	33.73	1000.0	1000.000	99.9	V	110.0	-8.0
3956.300	---	29.06	54.00	24.94	1000.0	1000.000	99.9	V	287.0	-6.6
3956.300	39.87	---	74.00	34.13	1000.0	1000.000	99.9	V	287.0	-6.6
17942.200	58.83	---	74.00	15.17	1000.0	1000.000	99.9	V	216.0	11.6
17942.200	---	45.40	54.00	8.60	1000.0	1000.000	99.9	V	216.0	11.6

DATA (Below 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 5_LOW



Final_Result

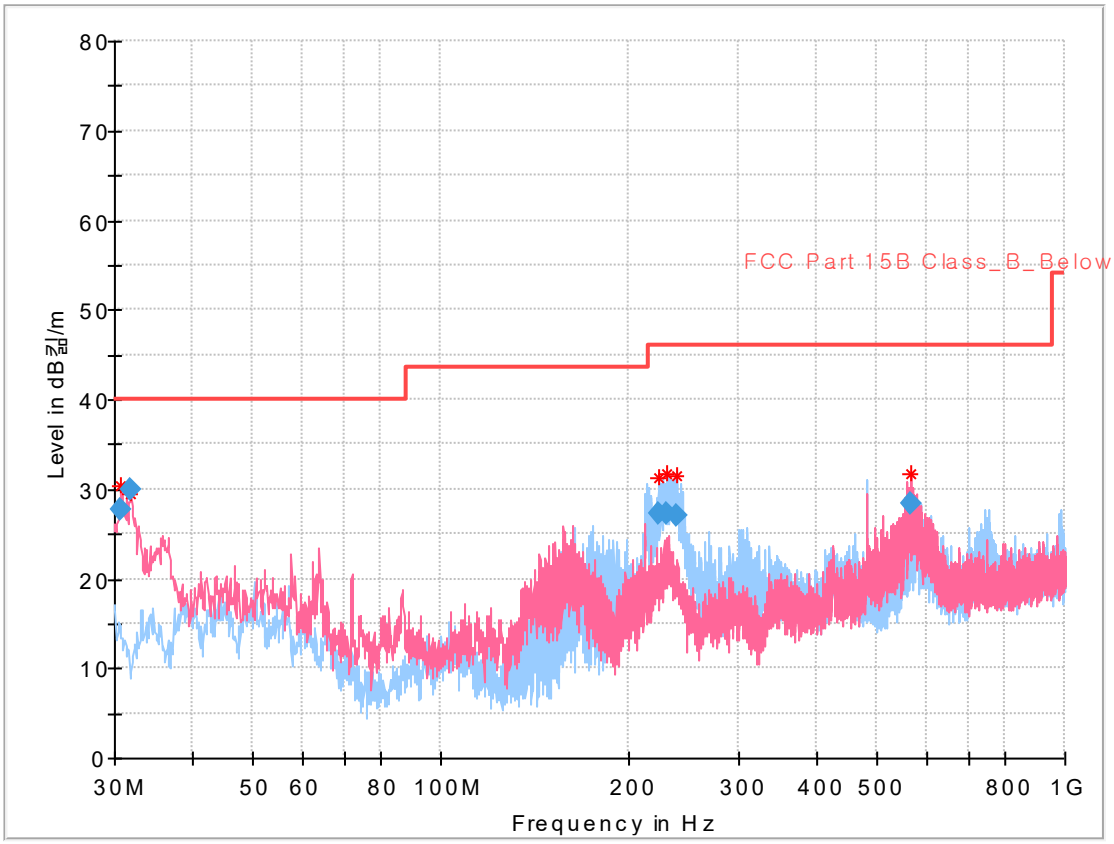
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873	27.07	40.00	12.93	15000.0	120.000	100.0	V	248.0	-23.2
31.552	27.28	40.00	12.72	15000.0	120.000	100.0	V	288.0	-23.6
162.793	23.84	43.50	19.66	15000.0	120.000	100.0	V	221.0	-23.5
226.813	33.05	46.00	12.95	15000.0	120.000	100.0	H	244.0	-20.4
479.983	31.88	46.00	14.12	15000.0	120.000	100.0	H	62.0	-13.8
569.417	29.22	46.00	16.78	15000.0	120.000	100.0	V	169.0	-12.1

DATA (Below 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 5_MID



Final_Result

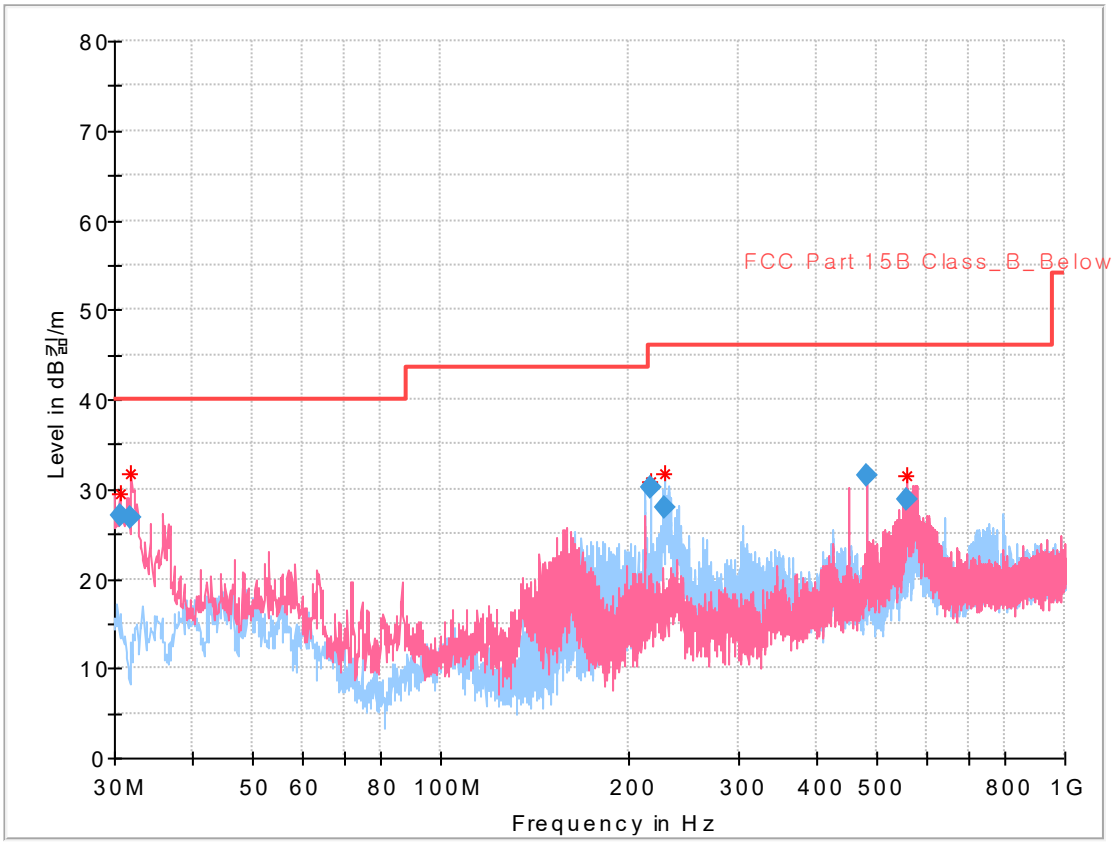
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.776	27.78	40.00	12.22	1000.0	120.000	100.0	V	248.0	-23.2
31.940	29.85	40.00	10.15	1000.0	120.000	100.0	V	105.0	-23.5
223.030	27.16	46.00	18.84	1000.0	120.000	100.0	H	62.0	-20.9
229.723	27.30	46.00	18.70	1000.0	120.000	100.0	H	112.0	-20.1
238.647	26.94	46.00	19.06	1000.0	120.000	100.0	H	98.0	-19.6
568.350	28.43	46.00	17.57	1000.0	120.000	100.0	V	174.0	-12.1

DATA (Below 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 5_HIGH



Final_Result

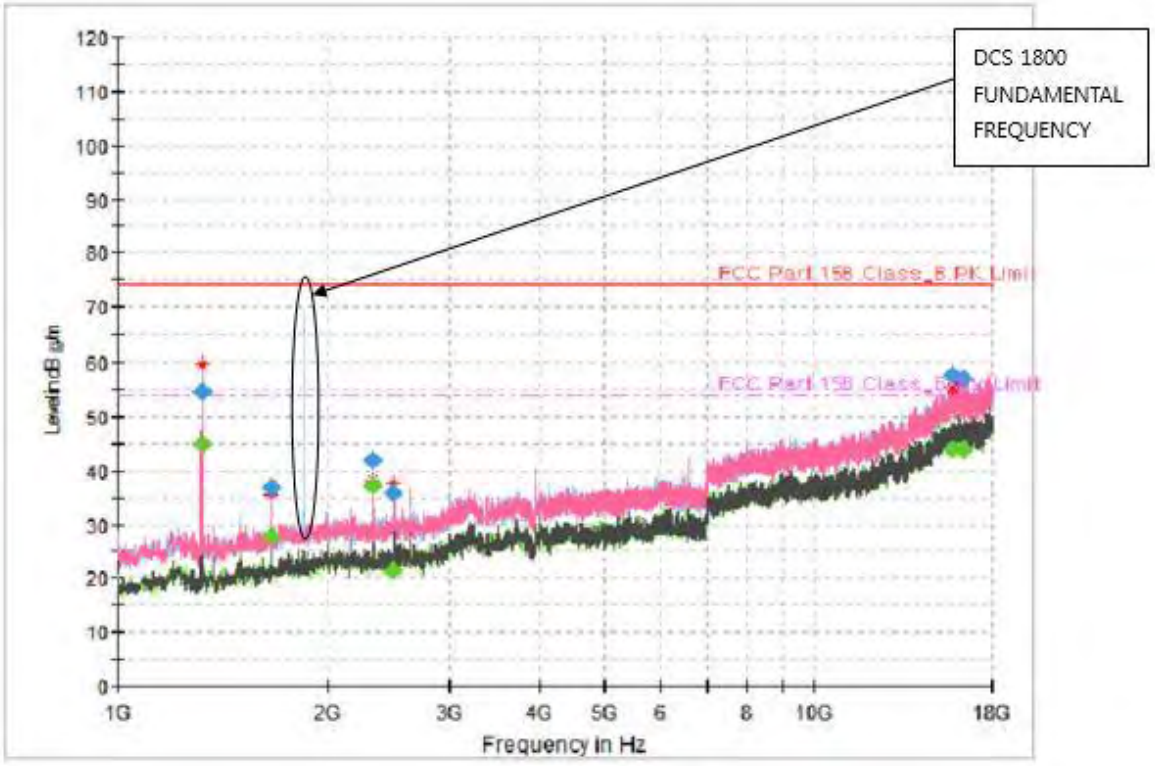
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.582	26.99	40.00	13.01	1000.0	120.000	100.0	V	289.0	-23.0
31.843	26.72	40.00	13.28	1000.0	120.000	100.0	V	289.0	-23.5
216.822	30.25	46.00	15.75	1000.0	120.000	100.0	H	253.0	-21.2
227.977	27.90	46.00	18.10	1000.0	120.000	100.0	H	61.0	-20.3
479.983	31.60	46.00	14.40	1000.0	120.000	100.0	H	61.0	-13.8
559.717	28.85	46.00	17.15	1000.0	120.000	100.0	V	169.0	-12.2

DATA (Above 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_LOW



Final_Result

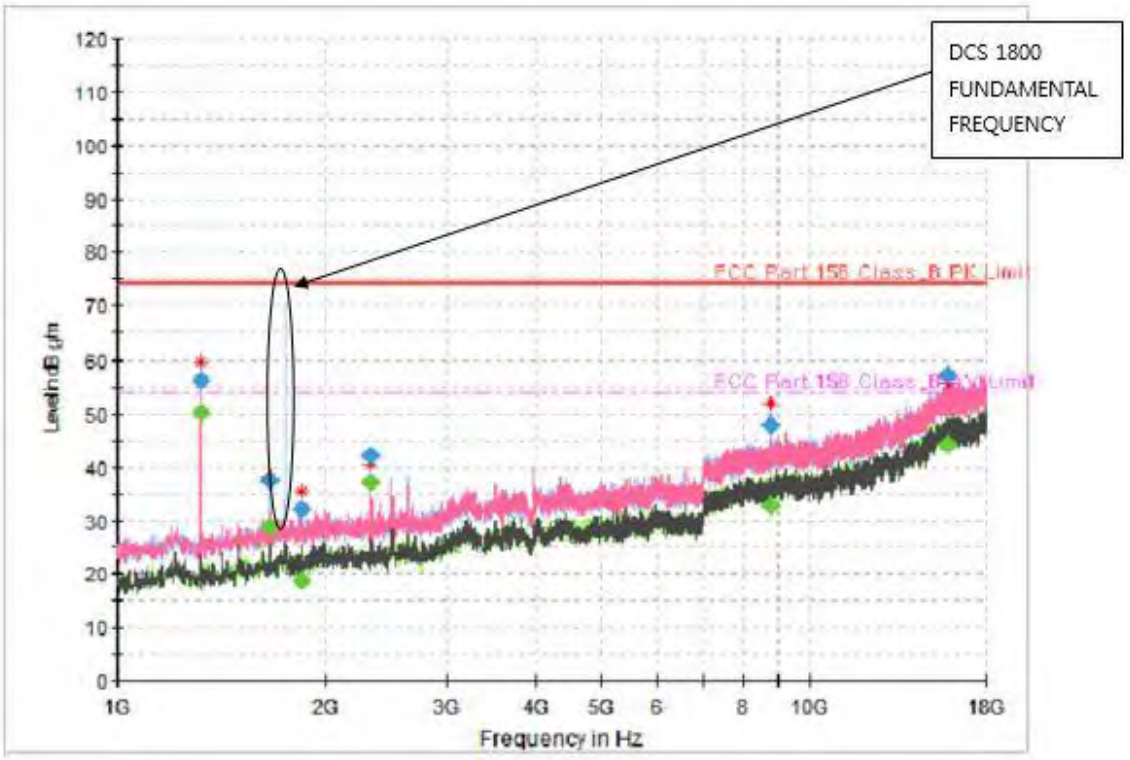
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	54.51	---	74.00	19.49	1000.0	1000.000	99.9	V	286.0	-18.6
1317.900	---	44.79	54.00	9.21	1000.0	1000.000	99.9	V	286.0	-18.6
1664.700	36.91	---	74.00	37.09	1000.0	1000.000	99.9	H	295.0	-15.9
1664.700	---	27.87	54.00	26.13	1000.0	1000.000	99.9	H	295.0	-15.9
2331.100	41.76	---	74.00	32.24	1000.0	1000.000	99.9	V	107.0	-13.3
2331.100	---	37.06	54.00	16.94	1000.0	1000.000	99.9	V	107.0	-13.3
2489.200	---	21.52	54.00	32.48	1000.0	1000.000	99.9	V	107.0	-12.5
2489.200	36.00	---	74.00	38.00	1000.0	1000.000	99.9	V	107.0	-12.5
15783.200	57.59	---	74.00	16.41	1000.0	1000.000	99.9	V	321.0	9.0
15783.200	---	44.01	54.00	9.99	1000.0	1000.000	99.9	V	321.0	9.0
16419.000	---	44.04	54.00	9.96	1000.0	1000.000	99.9	V	177.0	9.1
16419.000	56.83	---	74.00	17.17	1000.0	1000.000	99.9	V	177.0	9.1

DATA (Above 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_MID



Final_Result

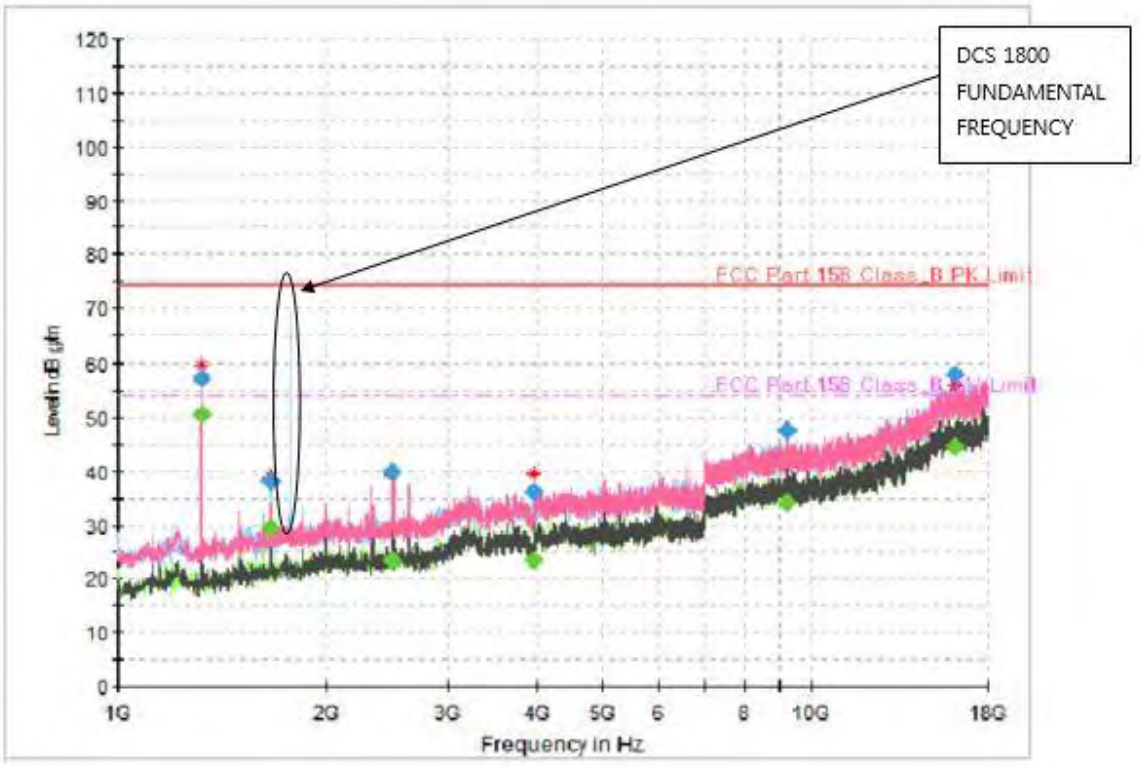
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	50.34	54.00	3.66	1000.0	1000.000	99.9	V	282.0	-18.6
1317.900	56.35	---	74.00	17.65	1000.0	1000.000	99.9	V	282.0	-18.6
1664.700	37.41	---	74.00	36.59	1000.0	1000.000	99.9	H	118.0	-15.9
1664.700	---	28.74	54.00	25.26	1000.0	1000.000	99.9	H	118.0	-15.9
1848.300	---	18.89	54.00	35.11	1000.0	1000.000	99.9	H	225.0	-15.1
1848.300	32.03	---	74.00	41.97	1000.0	1000.000	99.9	H	225.0	-15.1
2331.100	---	37.37	54.00	16.63	1000.0	1000.000	99.9	V	105.0	-13.3
2331.100	42.29	---	74.00	31.71	1000.0	1000.000	99.9	V	105.0	-13.3
8750.300	---	32.99	54.00	21.01	1000.0	1000.000	99.9	H	186.0	1.2
8750.300	47.89	---	74.00	26.11	1000.0	1000.000	99.9	H	186.0	1.2
15761.100	57.21	---	74.00	16.79	1000.0	1000.000	99.9	V	105.0	9.0
15761.100	---	44.11	54.00	9.89	1000.0	1000.000	99.9	V	105.0	9.0

DATA (Above 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_HIGH



Final_Result

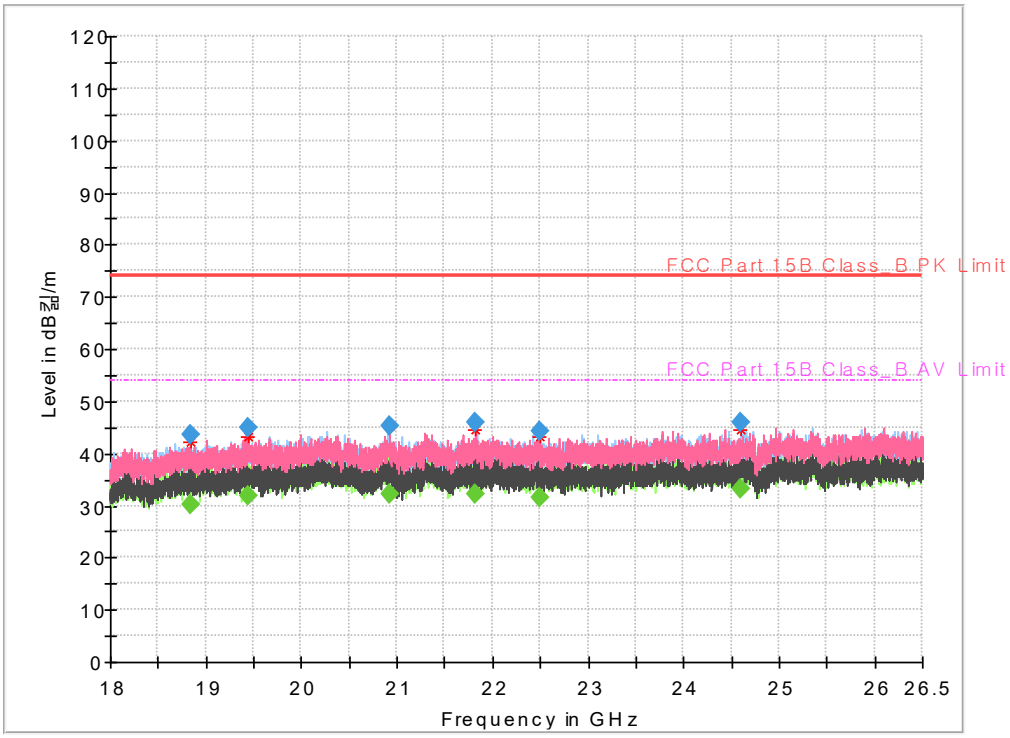
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	50.76	54.00	3.24	1000.0	1000.000	99.9	V	281.0	-18.6
1317.900	57.44	---	74.00	16.56	1000.0	1000.000	99.9	V	281.0	-18.6
1664.700	38.28	---	74.00	35.72	1000.0	1000.000	99.9	H	120.0	-15.9
1664.700	---	29.42	54.00	24.58	1000.0	1000.000	99.9	H	120.0	-15.9
2492.600	---	23.63	54.00	30.37	1000.0	1000.000	99.9	V	138.0	-12.5
2492.600	39.96	---	74.00	34.04	1000.0	1000.000	99.9	V	138.0	-12.5
3954.600	---	23.58	54.00	30.42	1000.0	1000.000	99.9	V	246.0	-6.6
3954.600	36.33	---	74.00	37.67	1000.0	1000.000	99.9	V	246.0	-6.6
9229.700	47.48	---	74.00	26.52	1000.0	1000.000	99.9	V	281.0	1.3
9229.700	---	34.05	54.00	19.95	1000.0	1000.000	99.9	V	281.0	1.3
16062.000	---	44.62	54.00	9.38	1000.0	1000.000	99.9	V	0.0	9.4
16062.000	57.82	---	74.00	16.18	1000.0	1000.000	99.9	V	0.0	9.4

DATA (Above 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_LOW



Final_Result

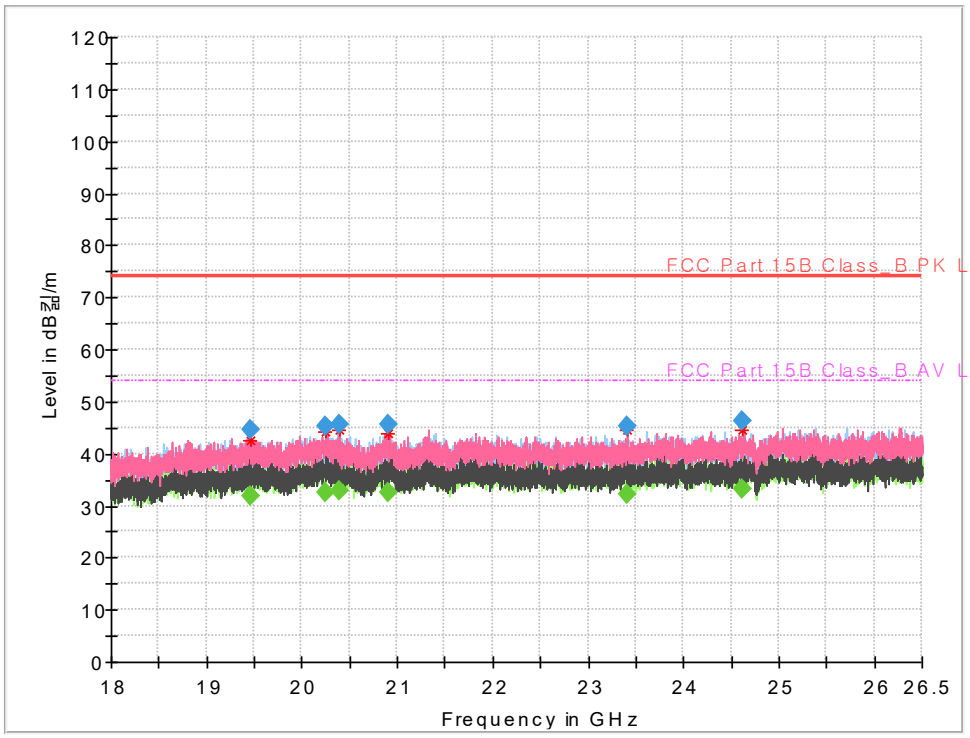
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18838.100	---	30.25	54.00	23.75	1000.0	1000.000	100.0	H	0.0	16.8
18838.100	43.41	---	74.00	30.59	1000.0	1000.000	100.0	H	0.0	16.8
19450.100	44.79	---	74.00	29.21	1000.0	1000.000	100.0	V	101.0	17.7
19450.100	---	31.79	54.00	22.21	1000.0	1000.000	100.0	V	101.0	17.7
20919.750	---	32.26	54.00	21.74	1000.0	1000.000	100.0	V	0.0	18.3
20919.750	45.30	---	74.00	28.70	1000.0	1000.000	100.0	V	0.0	18.3
21817.350	46.00	---	74.00	28.00	1000.0	1000.000	100.0	V	154.0	18.3
21817.350	---	32.21	54.00	21.79	1000.0	1000.000	100.0	V	154.0	18.3
22492.250	44.33	---	74.00	29.67	1000.0	1000.000	100.0	V	273.0	18.2
22492.250	---	31.60	54.00	22.40	1000.0	1000.000	100.0	V	273.0	18.2
24607.900	45.77	---	74.00	28.23	1000.0	1000.000	100.0	H	154.0	18.9
24607.900	---	33.13	54.00	20.87	1000.0	1000.000	100.0	H	154.0	18.9

DATA (Above 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description:	ABOVE_MODE 5_LOW
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_MID



Final_Result

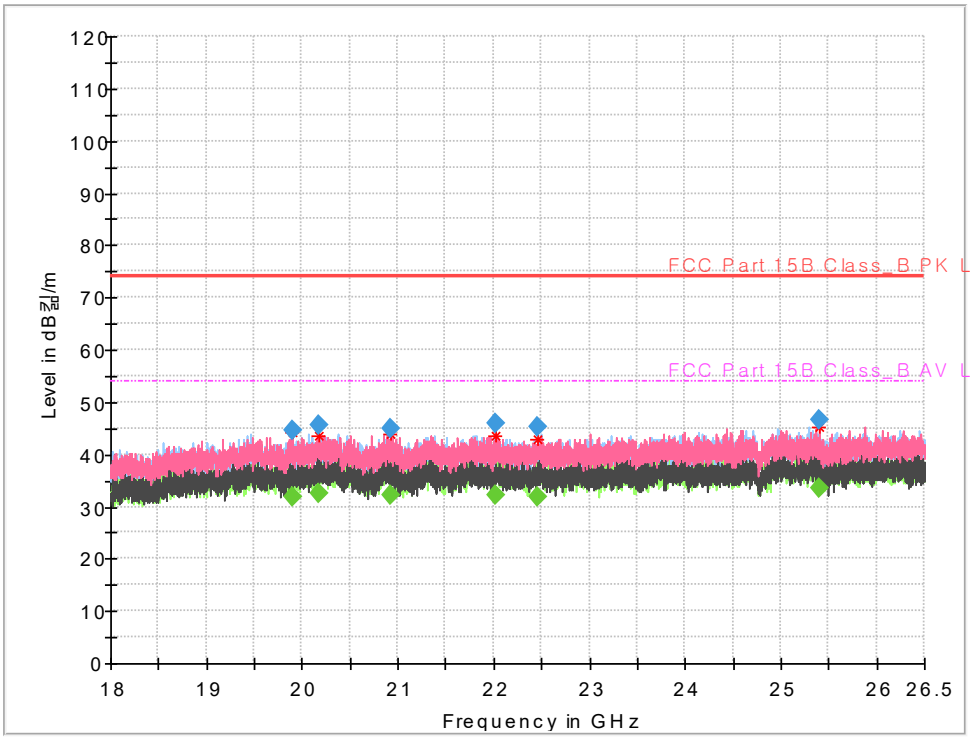
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19465.400	44.75	---	74.00	29.25	1000.0	1000.000	100.0	V	163.0	17.7
19465.400	---	31.83	54.00	22.17	1000.0	1000.000	100.0	V	163.0	17.7
20244.850	---	32.61	54.00	21.39	1000.0	1000.000	100.0	V	0.0	18.2
20244.850	45.28	---	74.00	28.72	1000.0	1000.000	100.0	V	0.0	18.2
20385.950	---	32.81	54.00	21.19	1000.0	1000.000	100.0	V	51.0	18.3
20385.950	45.56	---	74.00	28.44	1000.0	1000.000	100.0	V	51.0	18.3
20902.750	---	32.56	54.00	21.44	1000.0	1000.000	100.0	V	281.0	18.3
20902.750	45.44	---	74.00	28.56	1000.0	1000.000	100.0	V	281.0	18.3
23409.400	45.41	---	74.00	28.59	1000.0	1000.000	100.0	V	120.0	18.4
23409.400	---	32.25	54.00	21.75	1000.0	1000.000	100.0	V	120.0	18.4
24624.050	---	33.13	54.00	20.87	1000.0	1000.000	100.0	H	177.0	18.9
24624.050	46.23	---	74.00	27.77	1000.0	1000.000	100.0	H	177.0	18.9

DATA (Above 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 5_HIGH



Final_Result

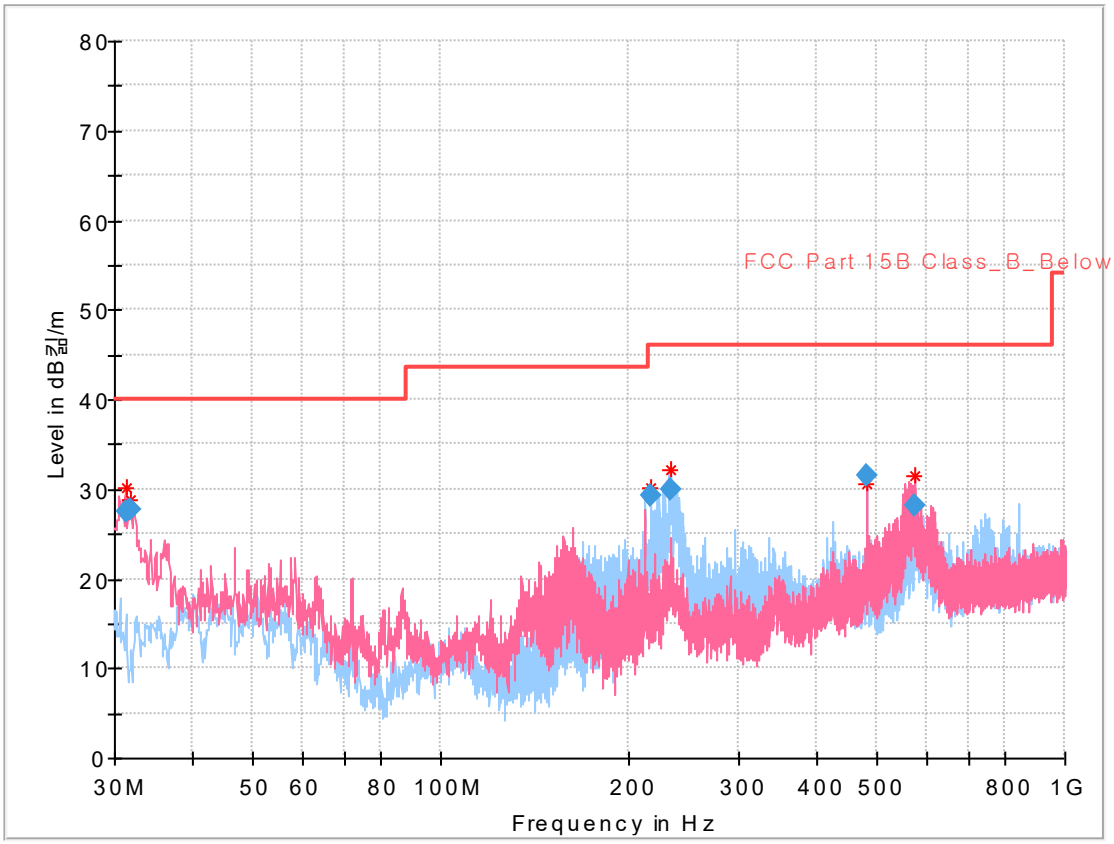
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19898.050	44.74	---	74.00	29.26	1000.0	1000.000	100.0	V	84.0	17.7
19898.050	---	31.85	54.00	22.15	1000.0	1000.000	100.0	V	84.0	17.7
20176.000	---	32.61	54.00	21.39	1000.0	1000.000	100.0	H	344.0	18.0
20176.000	45.54	---	74.00	28.46	1000.0	1000.000	100.0	H	344.0	18.0
20926.550	44.94	---	74.00	29.06	1000.0	1000.000	100.0	V	189.0	18.3
20926.550	---	32.34	54.00	21.66	1000.0	1000.000	100.0	V	189.0	18.3
22017.950	---	32.29	54.00	21.71	1000.0	1000.000	100.0	H	84.0	18.4
22017.950	45.82	---	74.00	28.18	1000.0	1000.000	100.0	H	84.0	18.4
22465.900	45.09	---	74.00	28.91	1000.0	1000.000	100.0	V	41.0	18.2
22465.900	---	31.84	54.00	22.16	1000.0	1000.000	100.0	V	41.0	18.2
25400.100	46.54	---	74.00	27.46	1000.0	1000.000	100.0	V	0.0	19.2
25400.100	---	33.45	54.00	20.55	1000.0	1000.000	100.0	V	0.0	19.2

DATA (Below 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 6_LOW



Final_Result

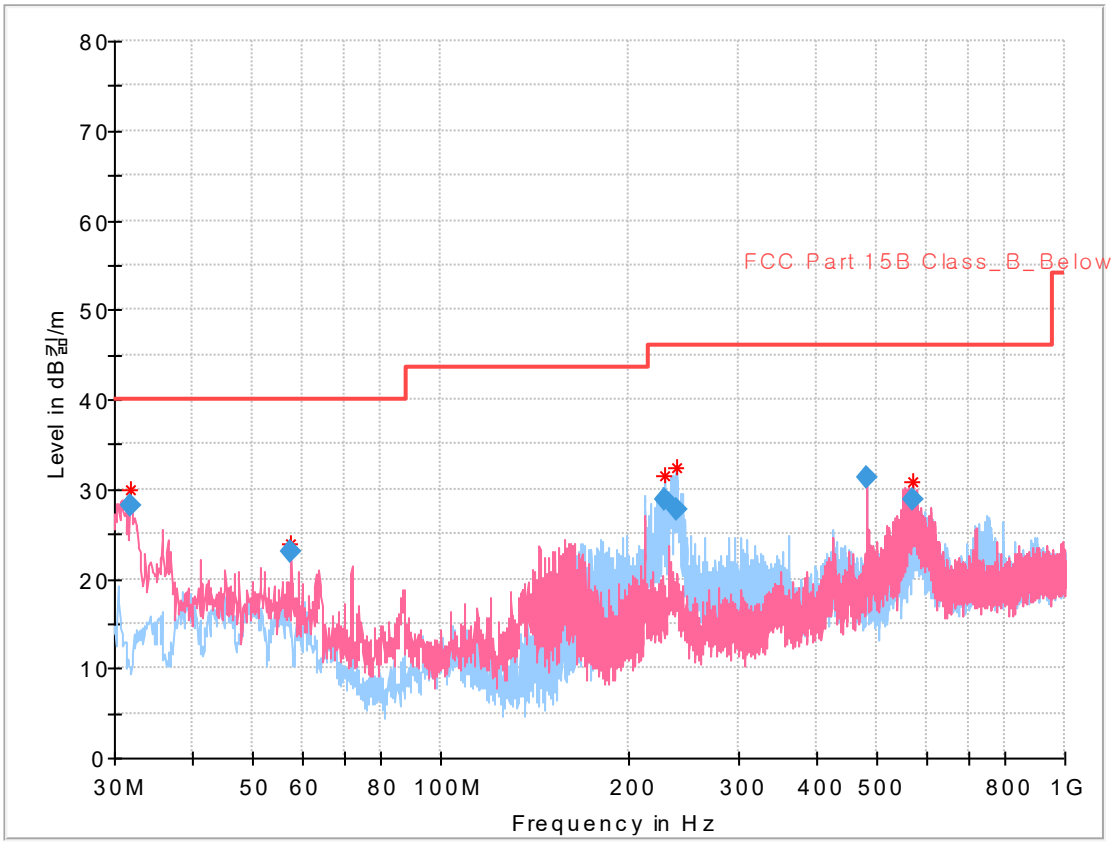
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	27.45	40.00	12.55	1000.0	120.000	100.0	V	251.0	-23.5
31.746	27.70	40.00	12.30	1000.0	120.000	100.0	V	251.0	-23.5
216.919	29.25	46.00	16.75	1000.0	120.000	100.0	H	213.0	-21.2
234.088	30.05	46.00	15.95	1000.0	120.000	100.0	H	296.0	-19.7
479.983	31.59	46.00	14.41	1000.0	120.000	100.0	H	76.0	-13.8
573.394	28.14	46.00	17.86	1000.0	120.000	100.0	V	168.0	-11.9

DATA (Below 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 6_MID



Final_Result

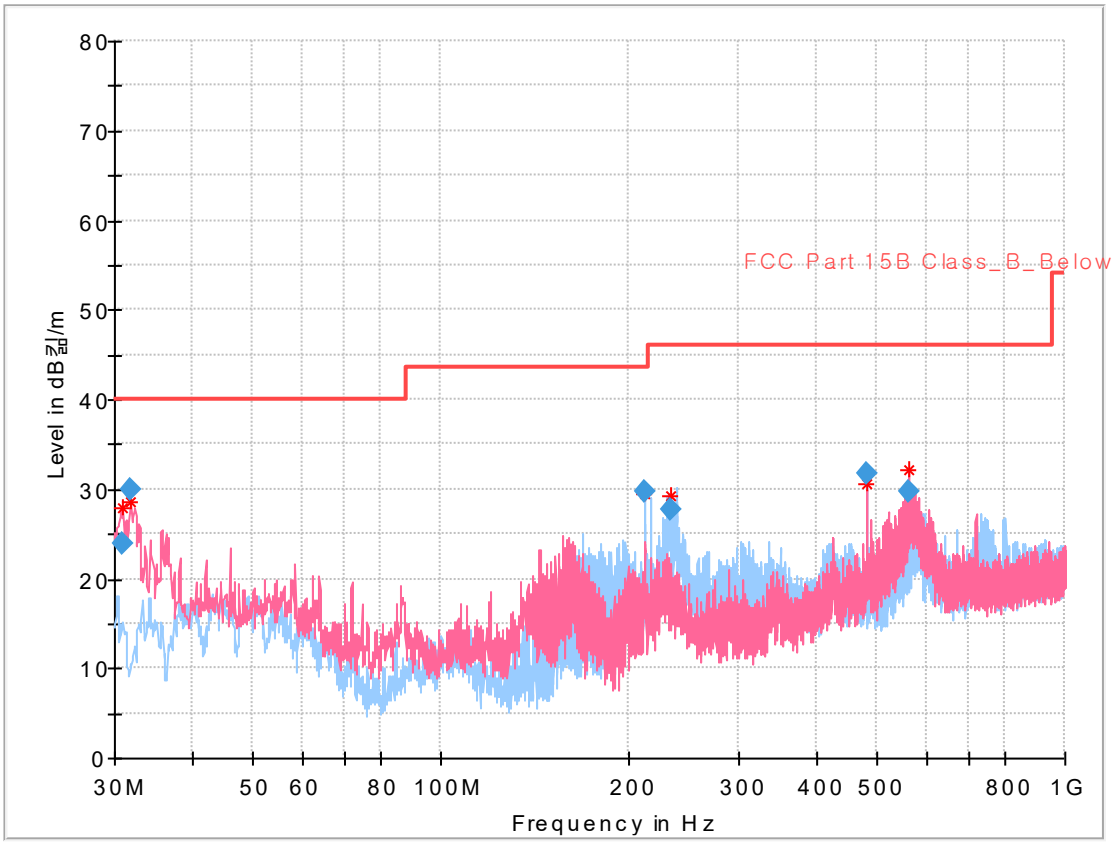
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.746	28.06	40.00	11.94	1000.0	120.000	100.0	V	272.0	-23.5
57.645	23.12	40.00	16.88	1000.0	120.000	100.0	V	298.0	-19.8
228.656	28.76	46.00	17.24	1000.0	120.000	100.0	H	271.0	-20.2
238.841	27.74	46.00	18.26	1000.0	120.000	100.0	H	271.0	-19.6
479.983	31.20	46.00	14.80	1000.0	120.000	100.0	H	57.0	-13.8
569.999	28.79	46.00	17.21	1000.0	120.000	100.0	V	172.0	-12.1

DATA (Below 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 6_HIGH



Final_Result

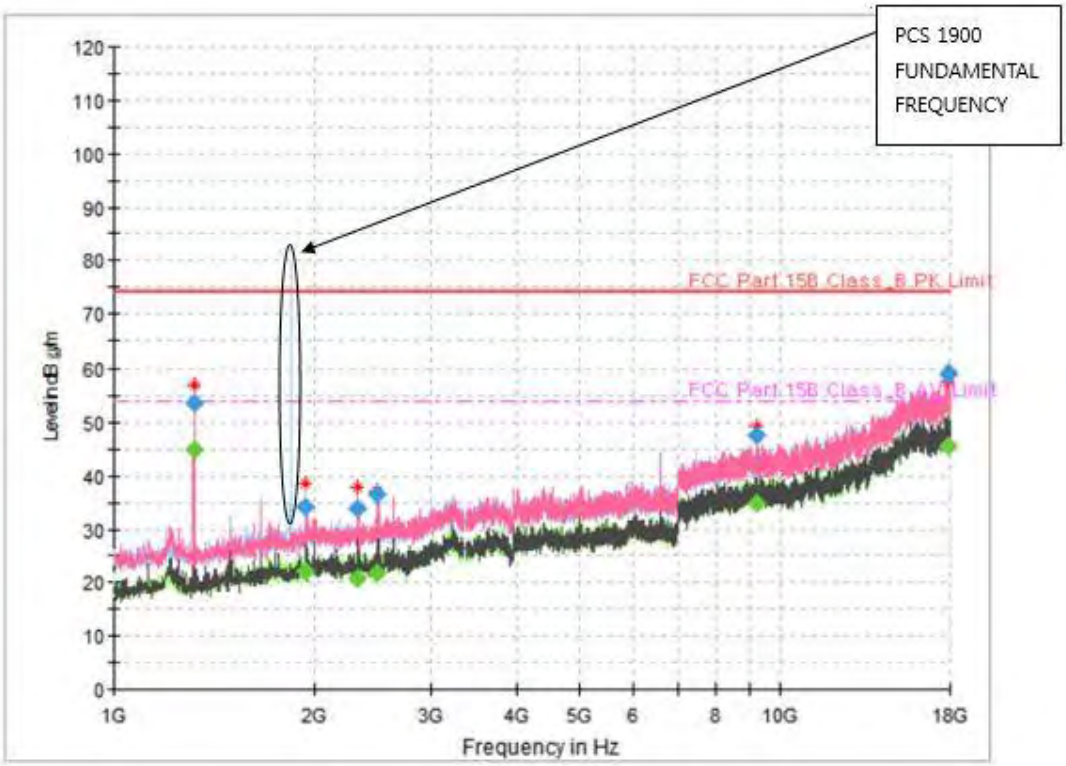
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.970	23.91	40.00	16.09	1000.0	120.000	100.0	V	35.0	-23.3
31.940	29.89	40.00	10.11	1000.0	120.000	100.0	V	130.0	-23.5
211.778	29.74	43.50	13.76	1000.0	120.000	100.0	H	276.0	-21.4
233.409	27.63	46.00	18.37	1000.0	120.000	100.0	H	56.0	-19.7
479.983	31.79	46.00	14.21	1000.0	120.000	100.0	H	70.0	-13.8
560.784	29.73	46.00	16.27	1000.0	120.000	100.0	V	170.0	-12.2

DATA (Above 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_LOW



Final_Result

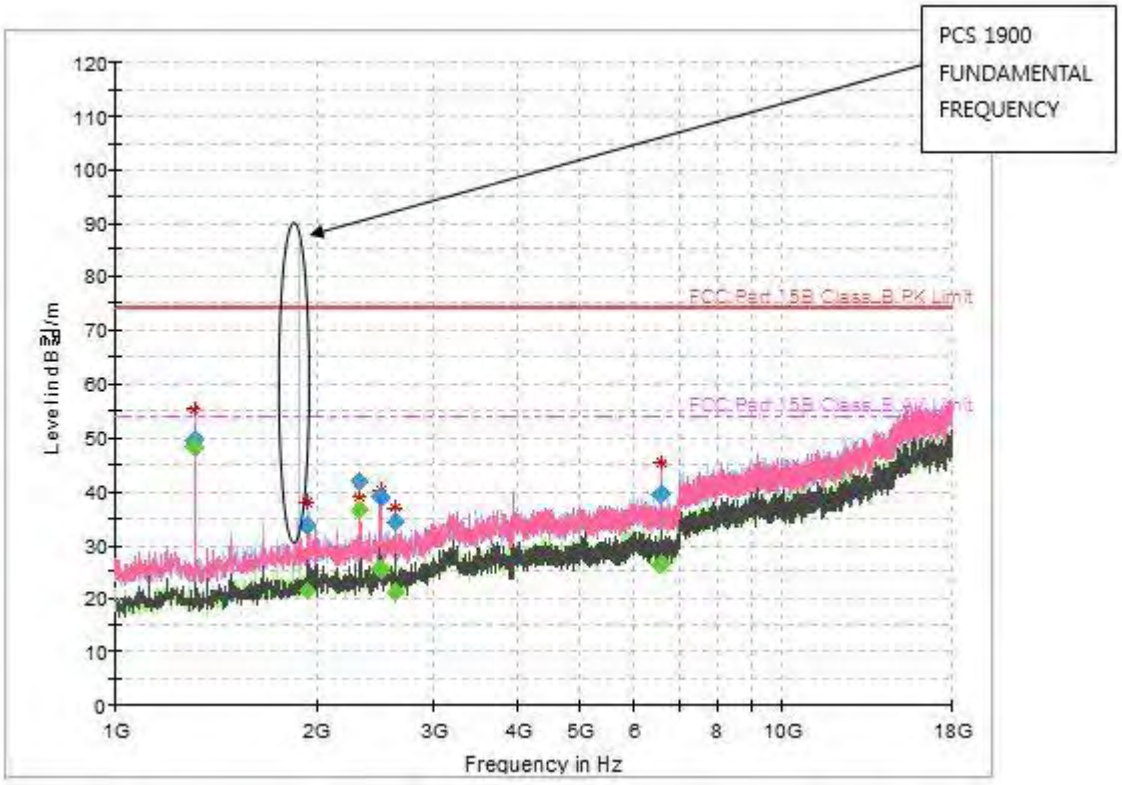
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	53.74	---	74.00	20.26	1000.0	1000.000	99.9	V	280.0	-18.6
1317.900	---	45.04	54.00	8.96	1000.0	1000.000	99.9	V	280.0	-18.6
1946.900	---	22.13	54.00	31.87	1000.0	1000.000	99.9	H	257.0	-14.0
1946.900	34.18	---	74.00	39.82	1000.0	1000.000	99.9	H	257.0	-14.0
2329.400	---	20.81	54.00	33.19	1000.0	1000.000	99.9	V	102.0	-13.3
2329.400	33.84	---	74.00	40.16	1000.0	1000.000	99.9	V	102.0	-13.3
2494.300	---	21.85	54.00	32.15	1000.0	1000.000	99.9	H	77.0	-12.5
2494.300	36.55	---	74.00	37.45	1000.0	1000.000	99.9	H	77.0	-12.5
9231.400	47.51	---	74.00	26.49	1000.0	1000.000	99.9	V	280.0	1.3
9231.400	---	34.82	54.00	19.18	1000.0	1000.000	99.9	V	280.0	1.3
17904.800	---	45.61	54.00	8.39	1000.0	1000.000	99.9	V	102.0	11.3
17904.800	58.83	---	74.00	15.17	1000.0	1000.000	99.9	V	102.0	11.3

DATA (Above 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_MID



Final_Result

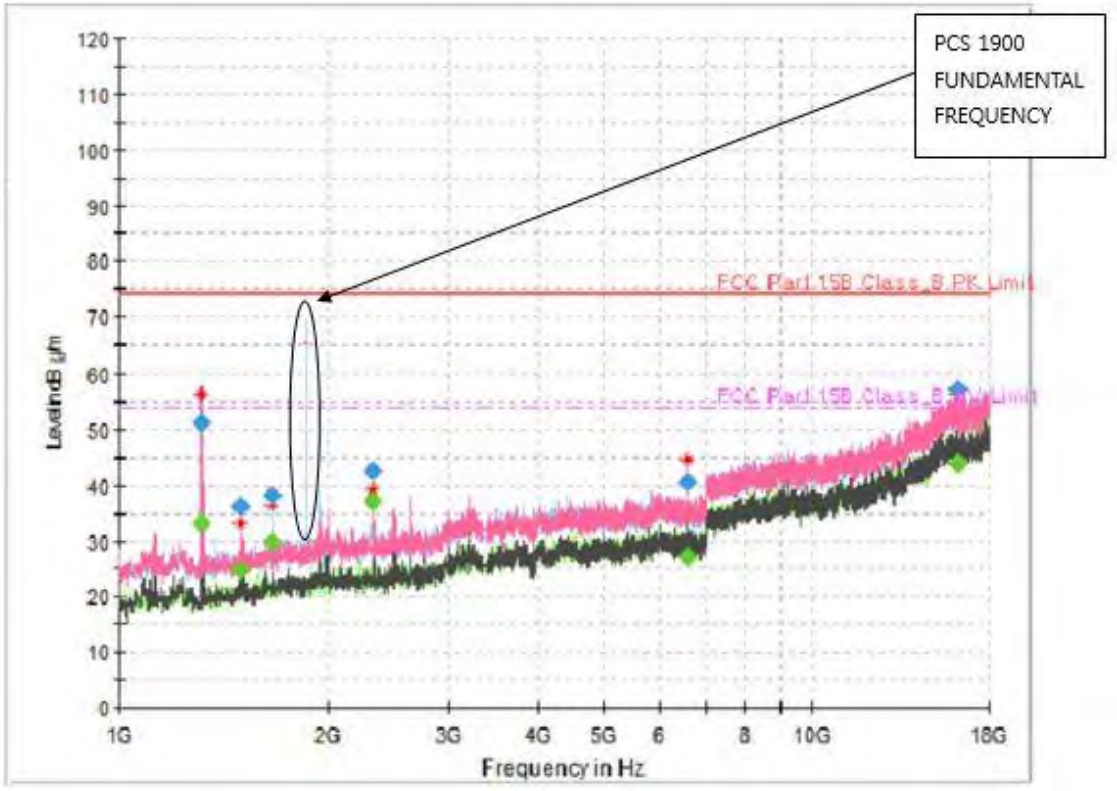
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	49.71	---	74.00	24.29	1000.0	1000.000	99.9	V	286.0	-18.6
1316.200	---	48.43	54.00	5.57	1000.0	1000.000	99.9	V	286.0	-18.6
1946.900	33.57	---	74.00	40.43	1000.0	1000.000	99.9	H	225.0	-14.0
1946.900	---	21.29	54.00	32.71	1000.0	1000.000	99.9	H	225.0	-14.0
2331.100	41.94	---	74.00	32.06	1000.0	1000.000	99.9	V	108.0	-13.3
2331.100	---	36.59	54.00	17.41	1000.0	1000.000	99.9	V	108.0	-13.3
2497.700	38.73	---	74.00	35.27	1000.0	1000.000	99.9	V	108.0	-12.5
2497.700	---	25.52	54.00	28.48	1000.0	1000.000	99.9	V	108.0	-12.5
2633.700	34.20	---	74.00	39.80	1000.0	1000.000	99.9	V	216.0	-11.7
2633.700	---	21.28	54.00	32.72	1000.0	1000.000	99.9	V	216.0	-11.7
6586.200	39.71	---	74.00	34.29	1000.0	1000.000	99.9	V	216.0	-2.3
6586.200	---	26.49	54.00	27.51	1000.0	1000.000	99.9	V	216.0	-2.3

DATA (Above 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_HIGH



Final_Result

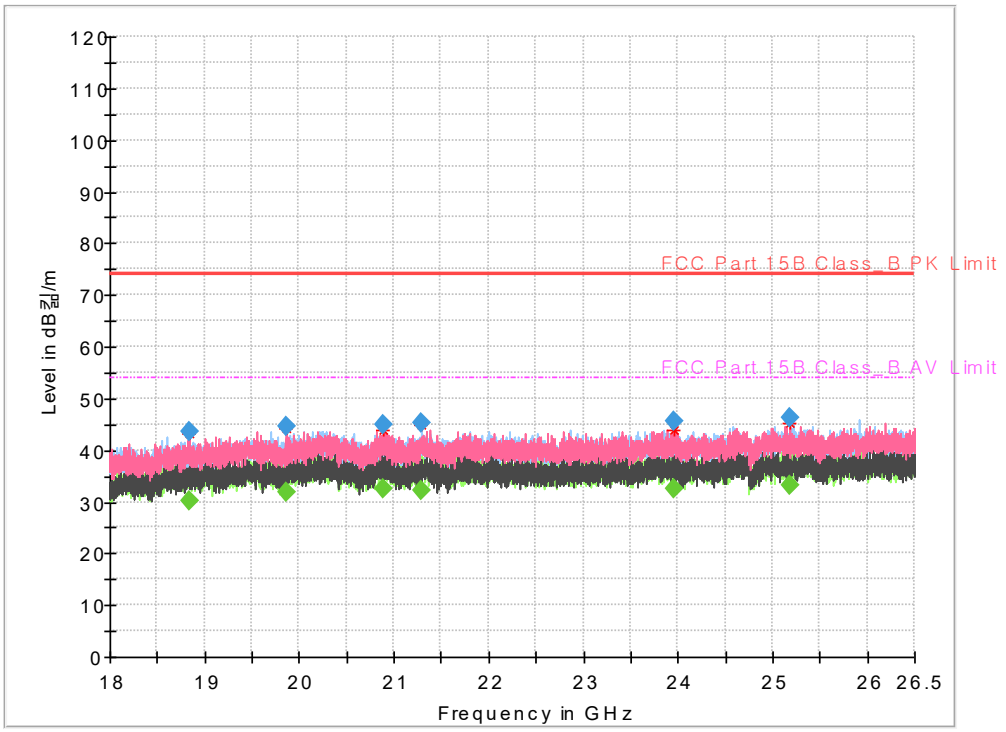
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	---	33.03	54.00	20.97	1000.0	1000.000	99.9	V	281.0	-18.7
1314.500	51.45	---	74.00	22.55	1000.0	1000.000	99.9	V	281.0	-18.7
1499.800	---	24.89	54.00	29.11	1000.0	1000.000	99.9	V	145.0	-16.7
1499.800	36.28	---	74.00	37.72	1000.0	1000.000	99.9	V	145.0	-16.7
1664.700	---	29.91	54.00	24.09	1000.0	1000.000	99.9	H	111.0	-15.9
1664.700	38.05	---	74.00	35.95	1000.0	1000.000	99.9	H	111.0	-15.9
2331.100	42.53	---	74.00	31.47	1000.0	1000.000	99.9	V	110.0	-13.3
2331.100	---	37.04	54.00	16.96	1000.0	1000.000	99.9	V	110.0	-13.3
6579.400	---	27.28	54.00	26.72	1000.0	1000.000	99.9	V	213.0	-2.3
6579.400	40.40	---	74.00	33.60	1000.0	1000.000	99.9	V	213.0	-2.3
16215.000	57.16	---	74.00	16.84	1000.0	1000.000	99.9	V	42.0	9.1
16215.000	---	44.06	54.00	9.94	1000.0	1000.000	99.9	V	42.0	9.1

DATA (Above 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_LOW



Final_Result

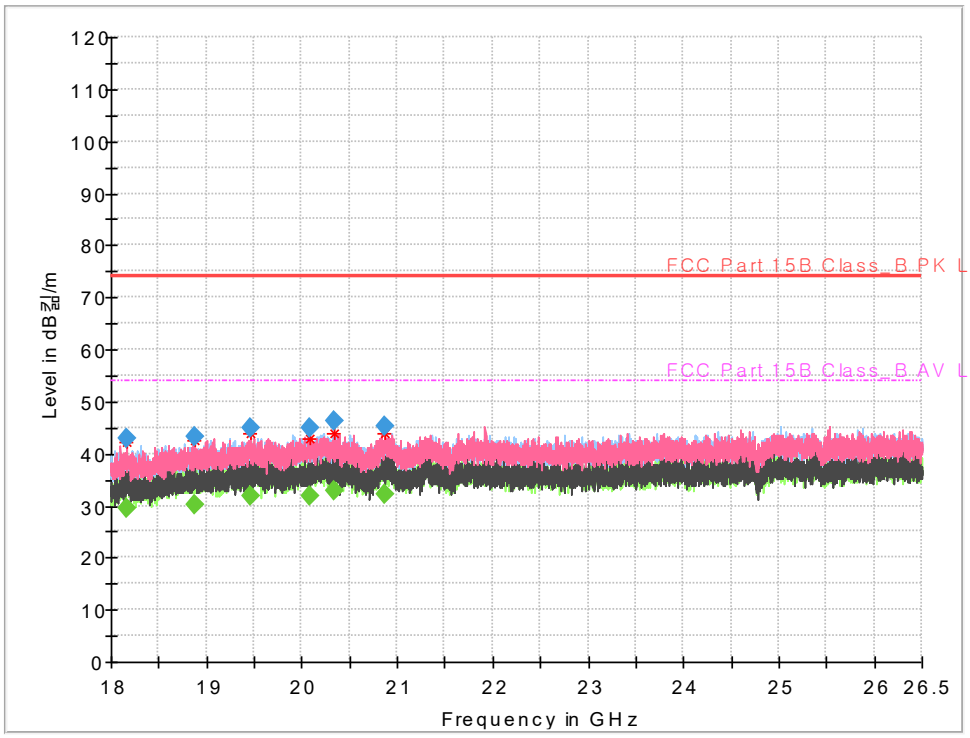
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18837.250	43.41	---	74.00	30.59	1000.0	1000.000	100.0	V	303.0	16.8
18837.250	---	30.10	54.00	23.90	1000.0	1000.000	100.0	V	303.0	16.8
19855.550	---	31.79	54.00	22.21	1000.0	1000.000	100.0	V	208.0	17.6
19855.550	44.61	---	74.00	29.39	1000.0	1000.000	100.0	V	208.0	17.6
20884.900	45.06	---	74.00	28.94	1000.0	1000.000	100.0	H	293.0	18.2
20884.900	---	32.48	54.00	21.52	1000.0	1000.000	100.0	H	293.0	18.2
21286.950	45.41	---	74.00	28.59	1000.0	1000.000	100.0	H	357.0	18.4
21286.950	---	32.34	54.00	21.66	1000.0	1000.000	100.0	H	357.0	18.4
23955.100	---	32.36	54.00	21.64	1000.0	1000.000	100.0	H	135.0	18.5
23955.100	45.70	---	74.00	28.30	1000.0	1000.000	100.0	H	135.0	18.5
25176.550	46.10	---	74.00	27.90	1000.0	1000.000	100.0	V	281.0	19.1
25176.550	---	33.06	54.00	20.94	1000.0	1000.000	100.0	V	281.0	19.1

DATA (Above 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_MID



Final_Result

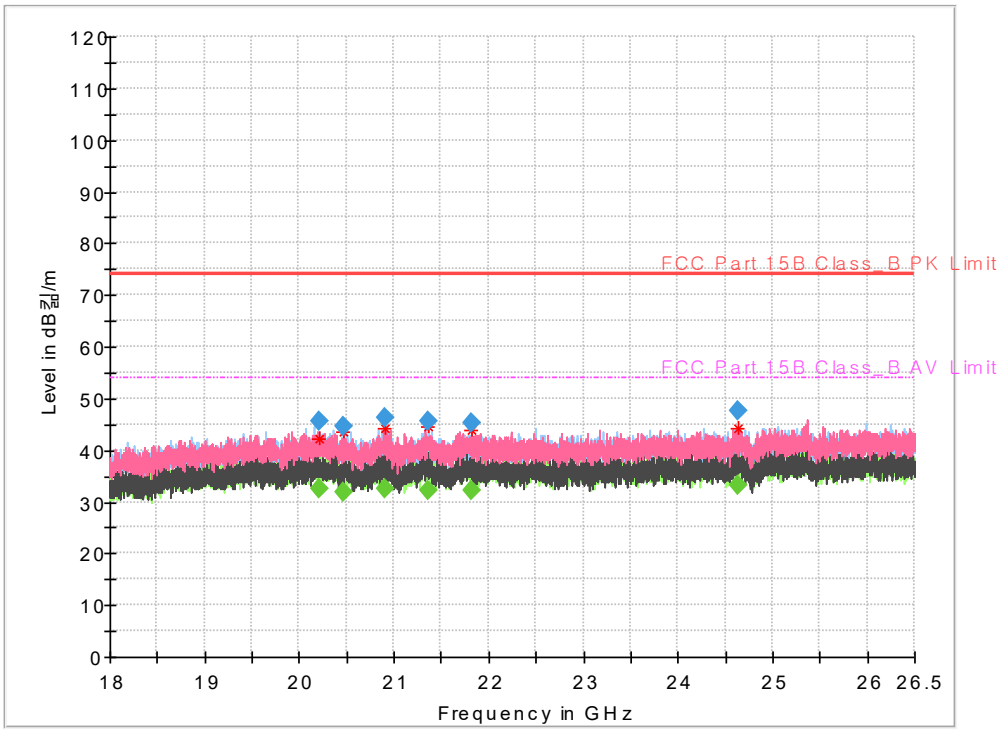
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18162.350	42.82	---	74.00	31.18	1000.0	1000.000	100.0	V	164.0	16.3
18162.350	---	29.63	54.00	24.37	1000.0	1000.000	100.0	V	164.0	16.3
18868.700	---	30.09	54.00	23.91	1000.0	1000.000	100.0	V	284.0	16.8
18868.700	43.24	---	74.00	30.76	1000.0	1000.000	100.0	V	284.0	16.8
19456.900	44.95	---	74.00	29.05	1000.0	1000.000	100.0	V	0.0	17.7
19456.900	---	31.95	54.00	22.05	1000.0	1000.000	100.0	V	0.0	17.7
20087.600	44.87	---	74.00	29.13	1000.0	1000.000	100.0	H	273.0	17.8
20087.600	---	32.01	54.00	21.99	1000.0	1000.000	100.0	H	273.0	17.8
20334.950	---	32.85	54.00	21.15	1000.0	1000.000	100.0	V	0.0	18.3
20334.950	46.16	---	74.00	27.84	1000.0	1000.000	100.0	V	0.0	18.3
20867.900	45.36	---	74.00	28.64	1000.0	1000.000	100.0	V	164.0	18.2
20867.900	---	32.35	54.00	21.65	1000.0	1000.000	100.0	V	164.0	18.2

DATA (Above 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 6_HIGH



Final_Result

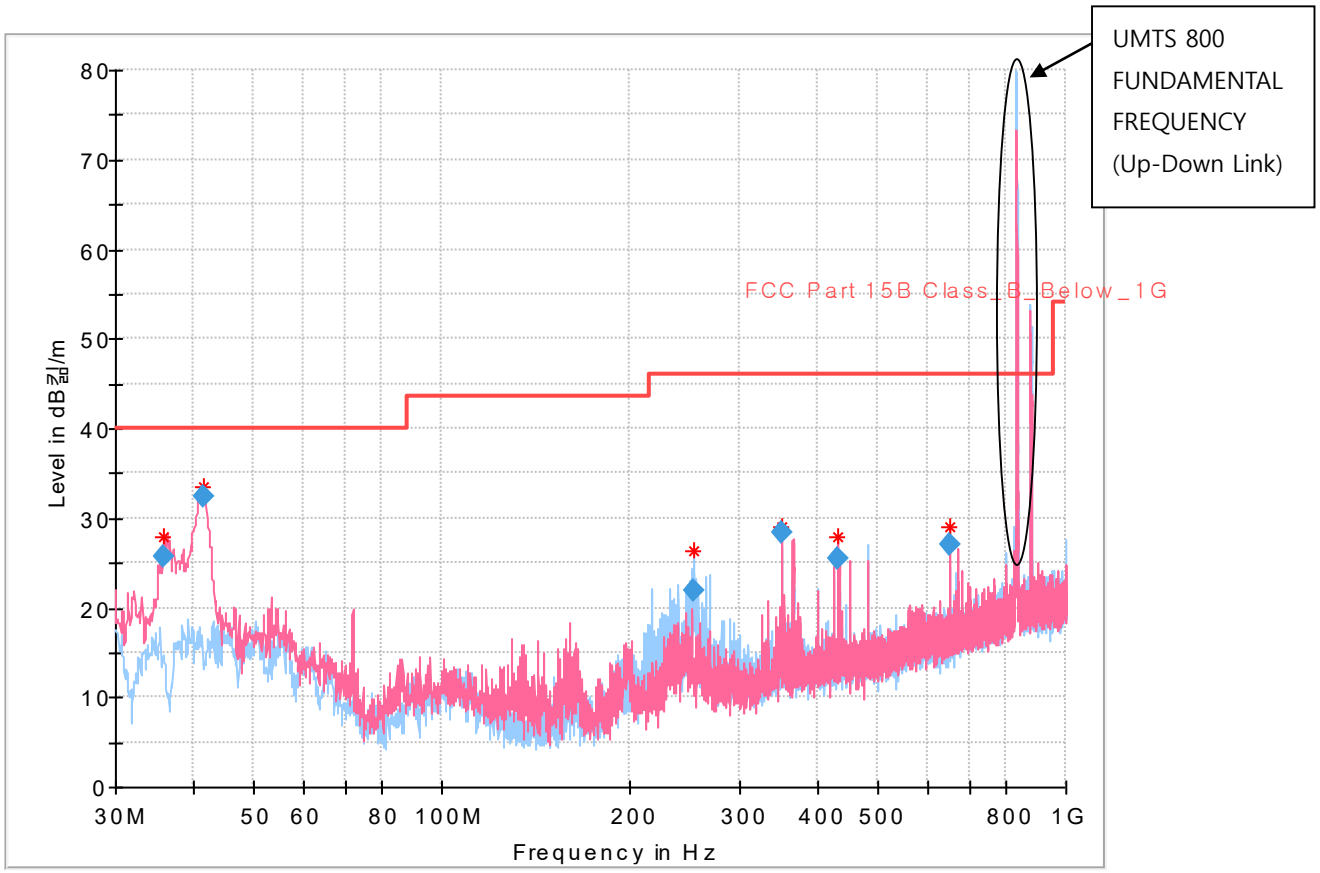
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20203.200	---	32.59	54.00	21.41	1000.0	1000.000	100.0	H	344.0	18.1
20203.200	45.63	---	74.00	28.37	1000.0	1000.000	100.0	H	344.0	18.1
20468.400	44.59	---	74.00	29.41	1000.0	1000.000	100.0	V	69.0	18.2
20468.400	---	31.83	54.00	22.17	1000.0	1000.000	100.0	V	69.0	18.2
20897.650	46.24	---	74.00	27.76	1000.0	1000.000	100.0	H	273.0	18.3
20897.650	---	32.63	54.00	21.37	1000.0	1000.000	100.0	H	273.0	18.3
21355.800	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	318.0	18.4
21355.800	---	32.06	54.00	21.94	1000.0	1000.000	100.0	H	318.0	18.4
21820.750	---	32.31	54.00	21.69	1000.0	1000.000	100.0	V	3.0	18.3
21820.750	45.13	---	74.00	28.87	1000.0	1000.000	100.0	V	3.0	18.3
24630.850	47.47	---	74.00	26.53	1000.0	1000.000	100.0	H	292.0	18.9
24630.850	---	33.14	54.00	20.86	1000.0	1000.000	100.0	H	292.0	18.9

DATA (Below 1 GHz : MODE 7_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 7_LOW



Final_Result

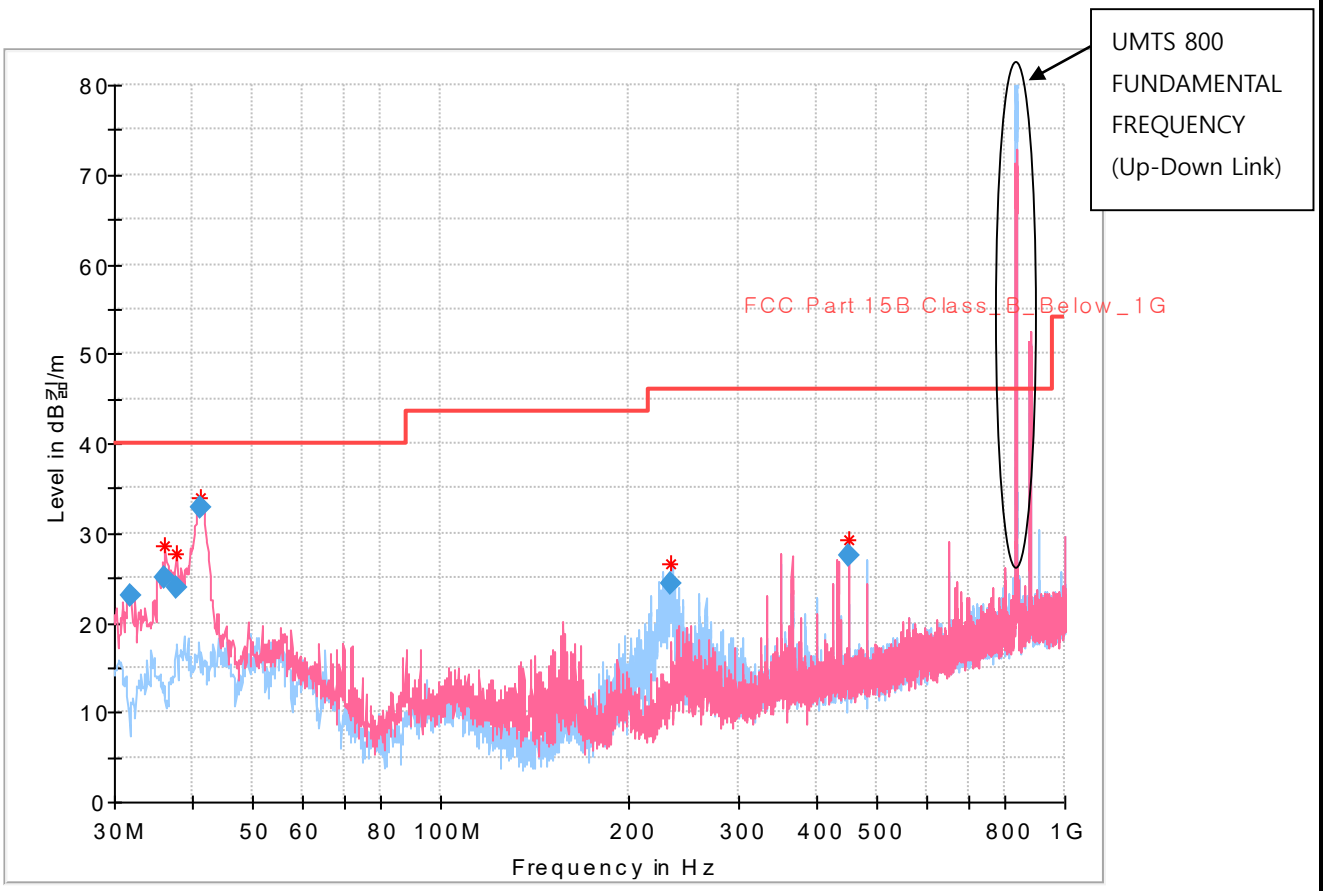
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.917	25.59	40.00	14.41	1000.0	120.000	100.0	V	330.0	-22.2
41.446	32.48	40.00	7.52	1000.0	120.000	100.0	V	47.0	-19.9
253.973	21.94	46.00	24.06	1000.0	120.000	100.0	H	210.0	-18.5
350.003	28.38	46.00	17.62	1000.0	120.000	100.0	V	190.0	-16.1
431.386	25.55	46.00	20.45	1000.0	120.000	100.0	V	122.0	-14.8
650.024	27.15	46.00	18.85	1000.0	120.000	100.0	V	108.0	-11.0

DATA (Below 1 GHz : MODE 7_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 7_MID



Final_Result

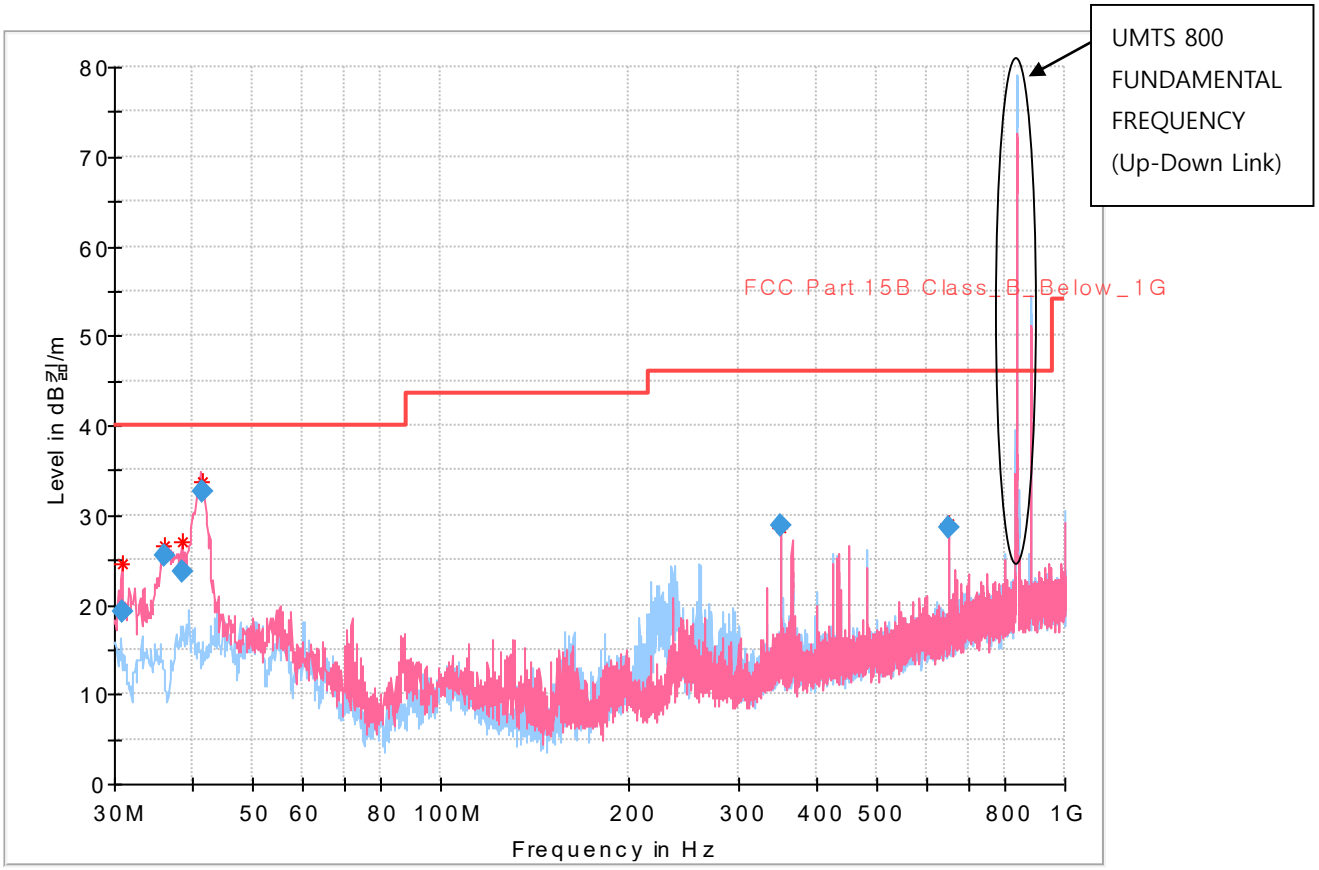
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	23.06	40.00	16.94	1000.0	120.000	100.0	V	258.0	-23.5
36.111	25.00	40.00	15.00	1000.0	120.000	100.0	V	285.0	-22.2
37.760	23.97	40.00	16.03	1000.0	120.000	100.0	V	285.0	-21.0
41.349	32.93	40.00	7.07	1000.0	120.000	100.0	V	66.0	-20.0
232.924	24.27	46.00	21.73	1000.0	120.000	100.0	H	229.0	-19.7
450.010	27.53	46.00	18.47	1000.0	120.000	100.0	V	145.0	-14.4

DATA (Below 1 GHz : MODE 7_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 7_HIGH



Final_Result

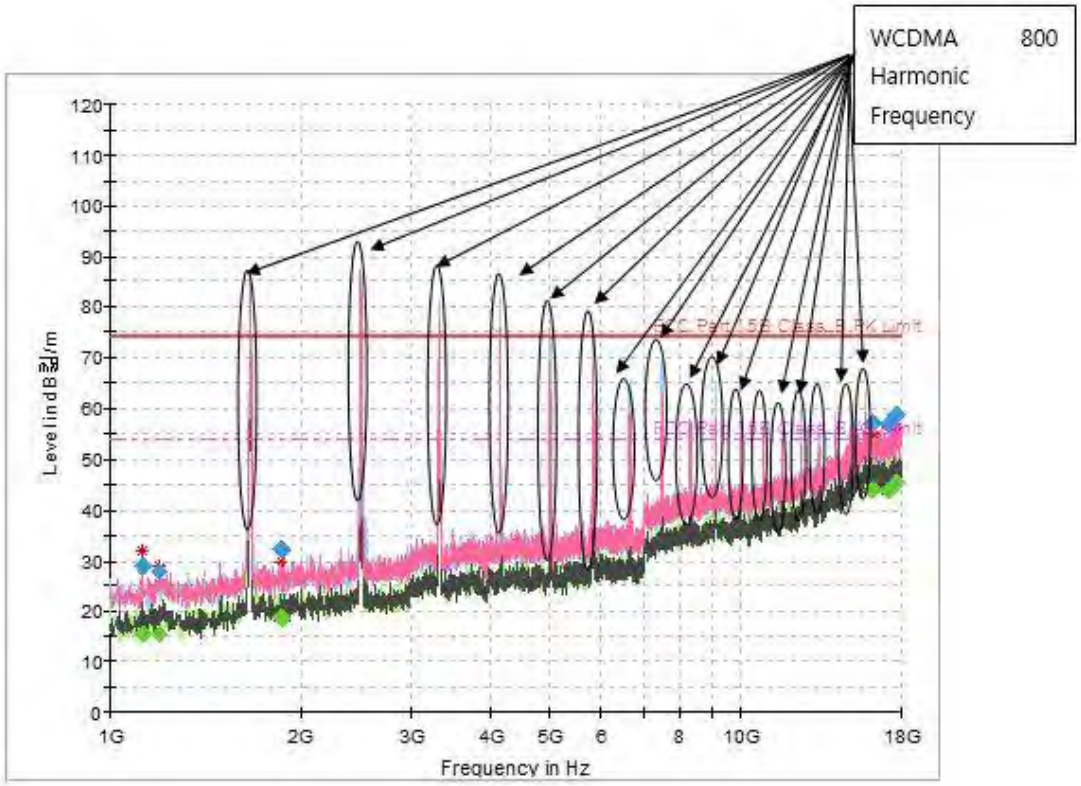
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873	19.18	40.00	20.82	1000.0	120.000	100.0	V	0.0	-23.2
36.111	25.47	40.00	14.53	1000.0	120.000	100.0	V	0.0	-22.2
38.439	23.59	40.00	16.41	1000.0	120.000	100.0	V	41.0	-20.7
41.543	32.66	40.00	7.34	1000.0	120.000	100.0	V	0.0	-19.9
350.003	28.77	46.00	17.23	1000.0	120.000	100.0	V	27.0	-16.1
650.024	28.57	46.00	17.43	1000.0	120.000	100.0	V	115.0	-11.0

DATA (Above 1 GHz : MODE 7_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE MODE 7_LOW



Final_Result

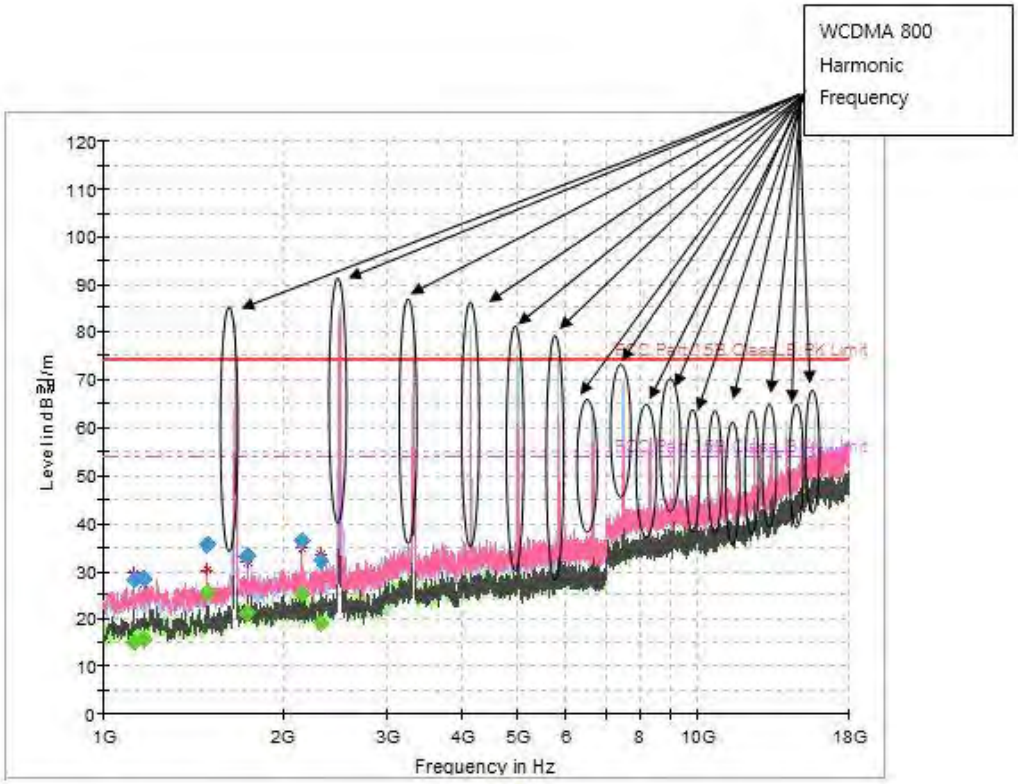
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	---	15.52	54.00	38.48	1000.0	1000.000	99.9	V	216.0	-19.5
1124.100	28.73	---	74.00	45.27	1000.0	1000.000	99.9	V	216.0	-19.5
1200.600	---	15.34	54.00	38.66	1000.0	1000.000	99.9	V	137.0	-19.2
1200.600	27.93	---	74.00	46.07	1000.0	1000.000	99.9	V	137.0	-19.2
1873.800	32.03	---	74.00	41.97	1000.0	1000.000	99.9	H	356.0	-14.8
1873.800	---	18.61	54.00	35.39	1000.0	1000.000	99.9	H	356.0	-14.8
16165.700	57.13	---	74.00	16.87	1000.0	1000.000	99.9	V	68.0	9.2
16165.700	---	43.92	54.00	10.08	1000.0	1000.000	99.9	V	68.0	9.2
17248.600	---	43.82	54.00	10.18	1000.0	1000.000	99.9	V	68.0	9.6
17248.600	56.86	---	74.00	17.14	1000.0	1000.000	99.9	V	68.0	9.6
17716.100	---	45.31	54.00	8.69	1000.0	1000.000	99.9	V	102.0	10.6
17716.100	58.52	---	74.00	15.48	1000.0	1000.000	99.9	V	102.0	10.6

DATA (Above 1 GHz : MODE 7_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 7_MID



Final_Result

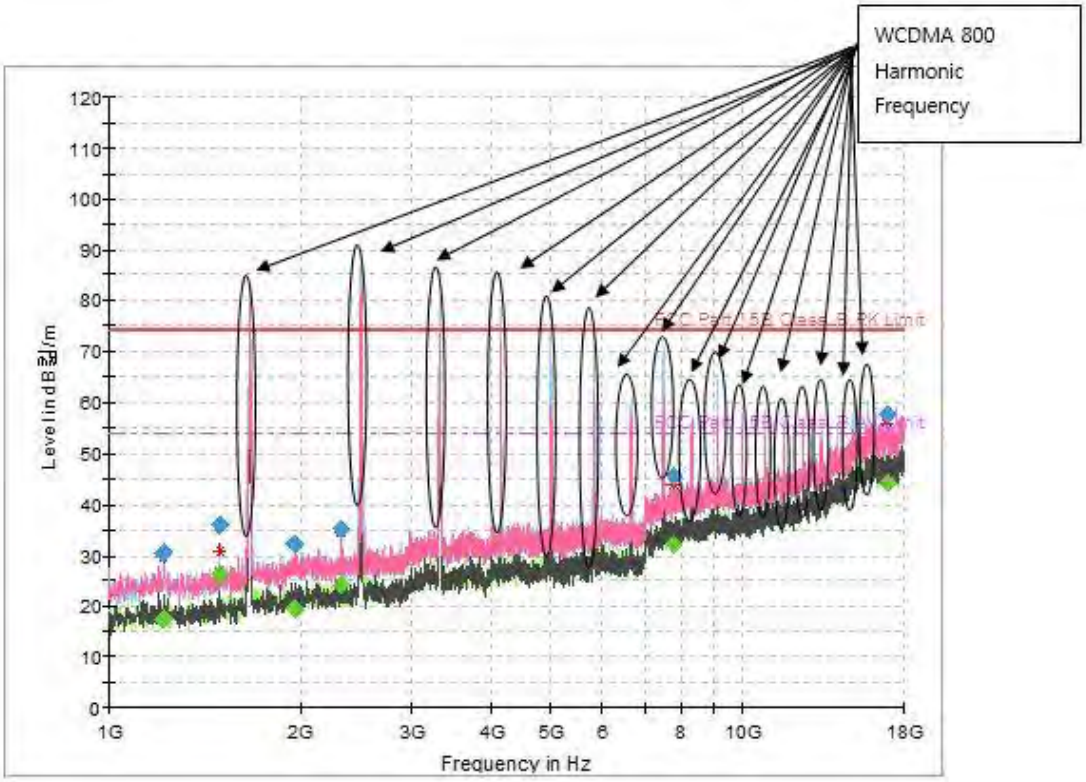
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	28.22	---	74.00	45.78	1000.0	1000.000	99.9	V	146.0	-19.5
1124.100	---	15.21	54.00	38.79	1000.0	1000.000	99.9	V	146.0	-19.5
1166.600	---	15.87	54.00	38.13	1000.0	1000.000	99.9	V	189.0	-19.3
1166.600	28.62	---	74.00	45.38	1000.0	1000.000	99.9	V	189.0	-19.3
1499.800	---	25.31	54.00	28.69	1000.0	1000.000	99.9	V	146.0	-16.7
1499.800	35.56	---	74.00	38.44	1000.0	1000.000	99.9	V	146.0	-16.7
1749.700	---	20.98	54.00	33.02	1000.0	1000.000	99.9	V	146.0	-15.3
1749.700	33.07	---	74.00	40.93	1000.0	1000.000	99.9	V	146.0	-15.3
2164.500	36.10	---	74.00	37.90	1000.0	1000.000	99.9	V	257.0	-13.4
2164.500	---	25.21	54.00	28.79	1000.0	1000.000	99.9	V	257.0	-13.4
2329.400	---	19.04	54.00	34.96	1000.0	1000.000	99.9	V	110.0	-13.3
2329.400	32.09	---	74.00	41.91	1000.0	1000.000	99.9	V	110.0	-13.3

DATA (Above 1 GHz : MODE 7_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 7_HIGH



Final_Result

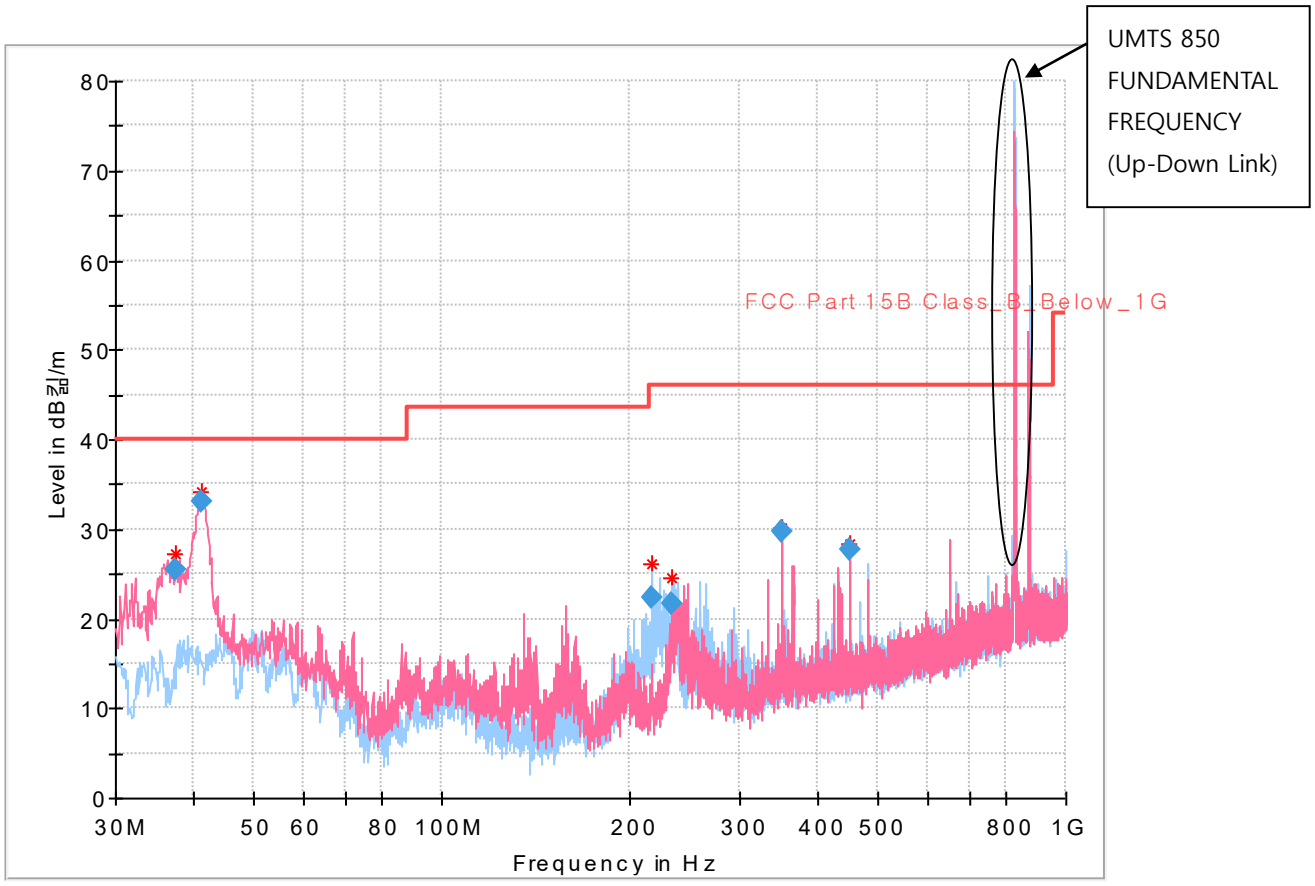
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1221.000	30.48	---	74.00	43.52	1000.0	1000.000	99.9	V	182.0	-18.7
1221.000	---	17.35	54.00	36.65	1000.0	1000.000	99.9	V	182.0	-18.7
1499.800	35.90	---	74.00	38.10	1000.0	1000.000	99.9	H	121.0	-16.7
1499.800	---	26.29	54.00	27.71	1000.0	1000.000	99.9	H	121.0	-16.7
1963.900	---	19.29	54.00	34.71	1000.0	1000.000	99.9	V	256.0	-13.9
1963.900	32.09	---	74.00	41.91	1000.0	1000.000	99.9	V	256.0	-13.9
2331.100	---	24.05	54.00	29.95	1000.0	1000.000	99.9	V	256.0	-13.3
2331.100	35.35	---	74.00	38.65	1000.0	1000.000	99.9	V	256.0	-13.3
7800.000	45.56	---	74.00	28.44	1000.0	1000.000	99.9	H	359.0	0.2
7800.000	---	32.11	54.00	21.89	1000.0	1000.000	99.9	H	359.0	0.2
16866.100	57.66	---	74.00	16.34	1000.0	1000.000	99.9	H	359.0	9.5
16866.100	---	44.18	54.00	9.82	1000.0	1000.000	99.9	H	359.0	9.5

DATA (Below 1 GHz : MODE 8_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 8_LOW



Final_Result

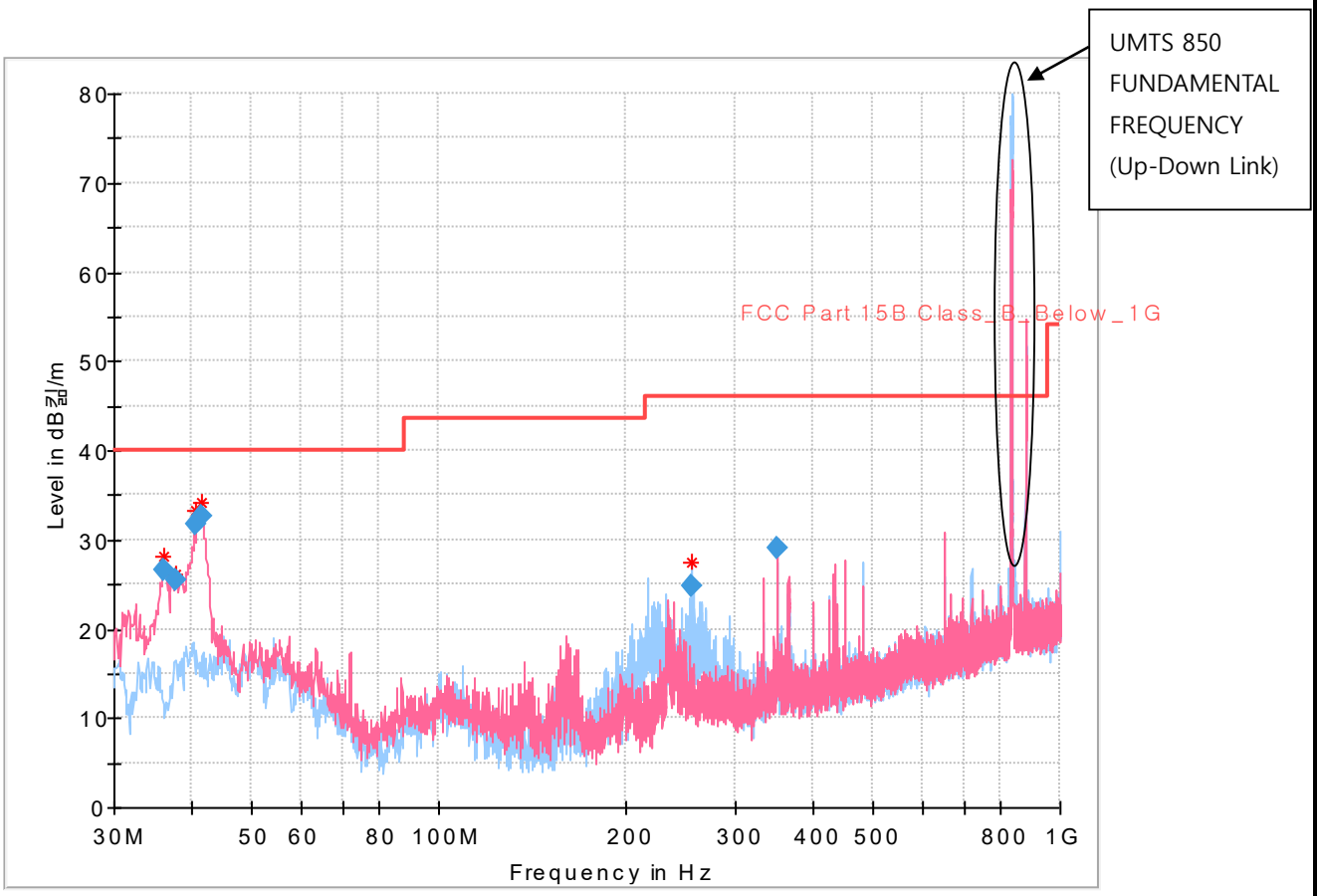
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.566	25.38	40.00	14.62	1000.0	120.000	100.0	V	258.0	-21.2
41.252	33.12	40.00	6.88	1000.0	120.000	100.0	V	62.0	-20.0
216.919	22.31	46.00	23.69	1000.0	120.000	100.0	H	6.0	-21.2
233.797	21.68	46.00	24.32	1000.0	120.000	100.0	H	43.0	-19.7
350.003	29.72	46.00	16.28	1000.0	120.000	100.0	H	138.0	-16.1
450.010	27.79	46.00	18.21	1000.0	120.000	100.0	V	130.0	-14.4

DATA (Below 1 GHz : MODE 8_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 8_MID



Final_Result

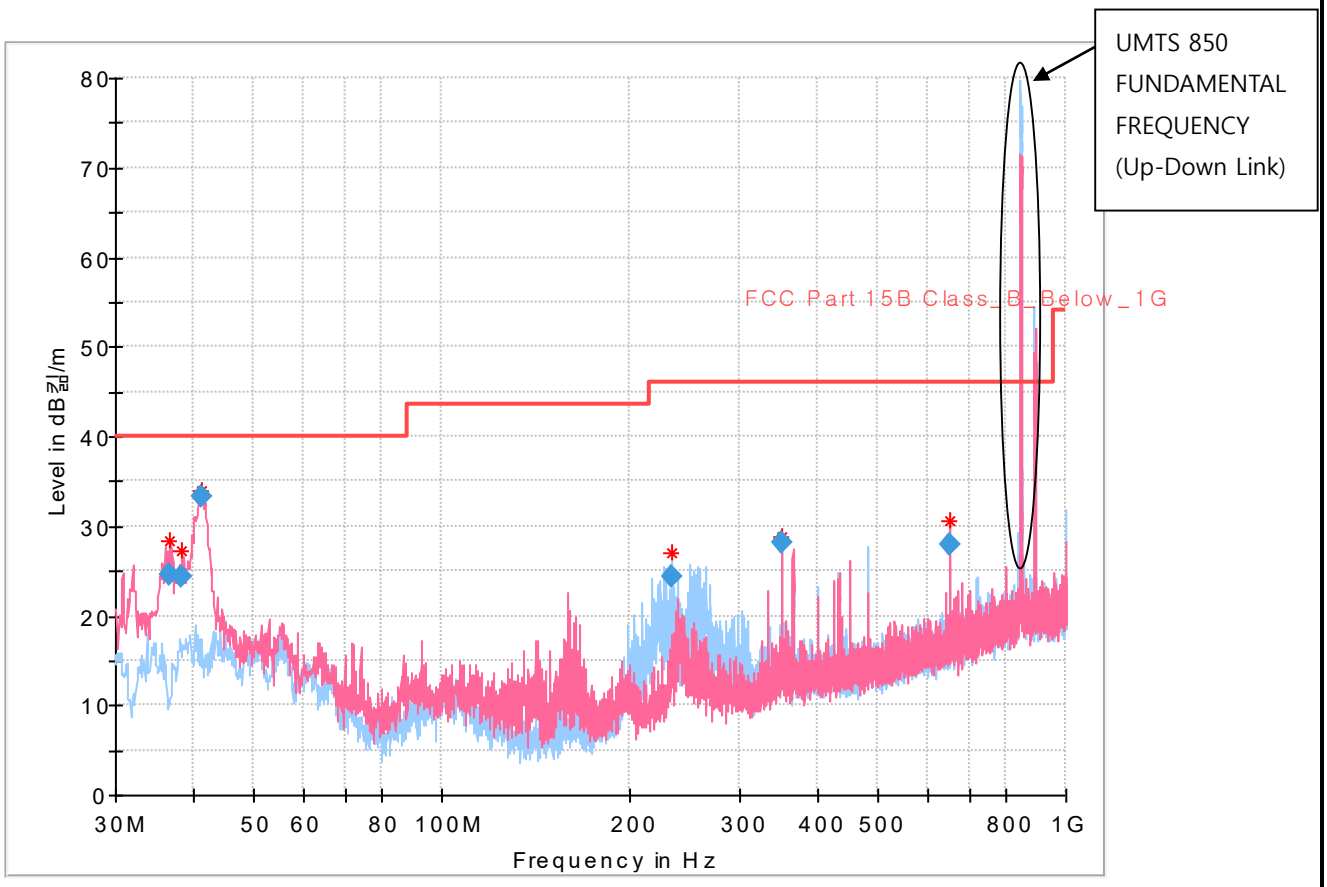
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	26.57	40.00	13.43	1000.0	120.000	100.0	V	274.0	-22.2
37.663	25.43	40.00	14.57	1000.0	120.000	100.0	V	274.0	-21.1
40.670	31.78	40.00	8.22	1000.0	120.000	100.0	V	232.0	-20.3
41.446	32.65	40.00	7.35	1000.0	120.000	100.0	V	313.0	-19.9
254.749	24.77	46.00	21.23	1000.0	120.000	100.0	H	214.0	-18.5
350.003	29.13	46.00	16.87	1000.0	120.000	100.0	V	205.0	-16.1

DATA (Below 1 GHz : MODE 8_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 8_HIGH



Final_Result

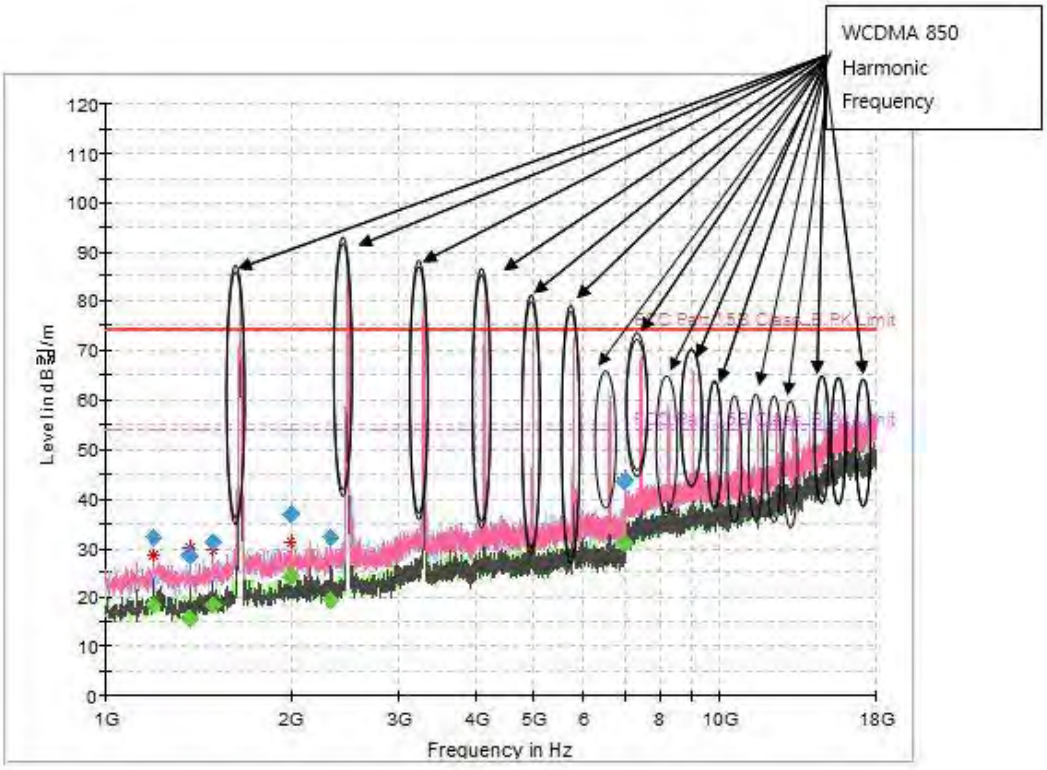
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.693	24.51	40.00	15.49	1000.0	120.000	100.0	V	278.0	-21.9
38.342	24.30	40.00	15.70	1000.0	120.000	100.0	V	278.0	-20.7
41.155	33.31	40.00	6.69	1000.0	120.000	100.0	V	278.0	-20.1
233.991	24.43	46.00	21.57	1000.0	120.000	100.0	H	225.0	-19.7
350.003	28.26	46.00	17.74	1000.0	120.000	100.0	V	32.0	-16.1
650.024	27.94	46.00	18.06	1000.0	120.000	100.0	V	127.0	-11.0

DATA (Above 1 GHz : MODE 8_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 8_LOW



Final_Result

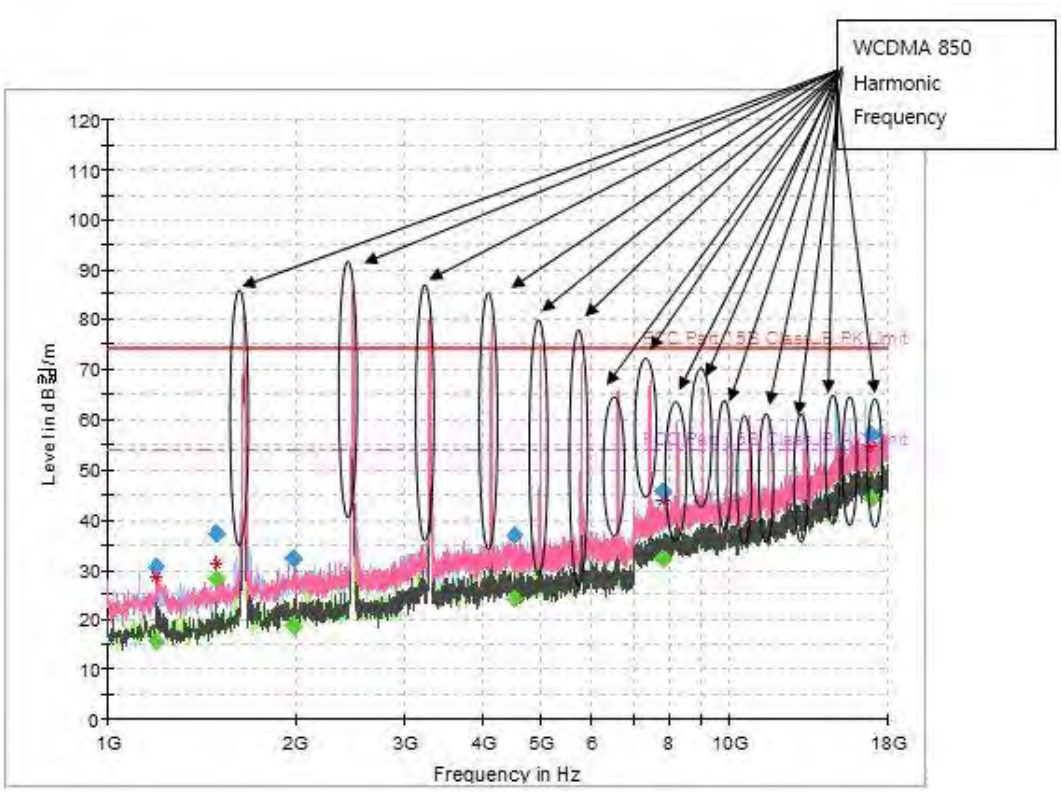
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	32.17	---	74.00	41.83	1000.0	1000.000	99.9	V	258.0	-19.2
1198.900	---	18.60	54.00	35.40	1000.0	1000.000	99.9	V	258.0	-19.2
1374.000	---	15.80	54.00	38.20	1000.0	1000.000	99.9	V	223.0	-18.1
1374.000	28.59	---	74.00	45.41	1000.0	1000.000	99.9	V	223.0	-18.1
1498.100	31.24	---	74.00	42.76	1000.0	1000.000	99.9	V	150.0	-16.7
1498.100	---	18.53	54.00	35.47	1000.0	1000.000	99.9	V	150.0	-16.7
1999.600	---	24.28	54.00	29.72	1000.0	1000.000	99.9	V	150.0	-13.7
1999.600	36.79	---	74.00	37.21	1000.0	1000.000	99.9	V	150.0	-13.7
2329.400	32.30	---	74.00	41.70	1000.0	1000.000	99.9	V	150.0	-13.3
2329.400	---	19.53	54.00	34.47	1000.0	1000.000	99.9	V	150.0	-13.3
7033.300	43.47	---	74.00	30.53	1000.0	1000.000	99.9	H	8.0	-1.8
7033.300	---	30.95	54.00	23.05	1000.0	1000.000	99.9	H	8.0	-1.8

DATA (Above 1 GHz : MODE 8_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 8_MID



Final_Result

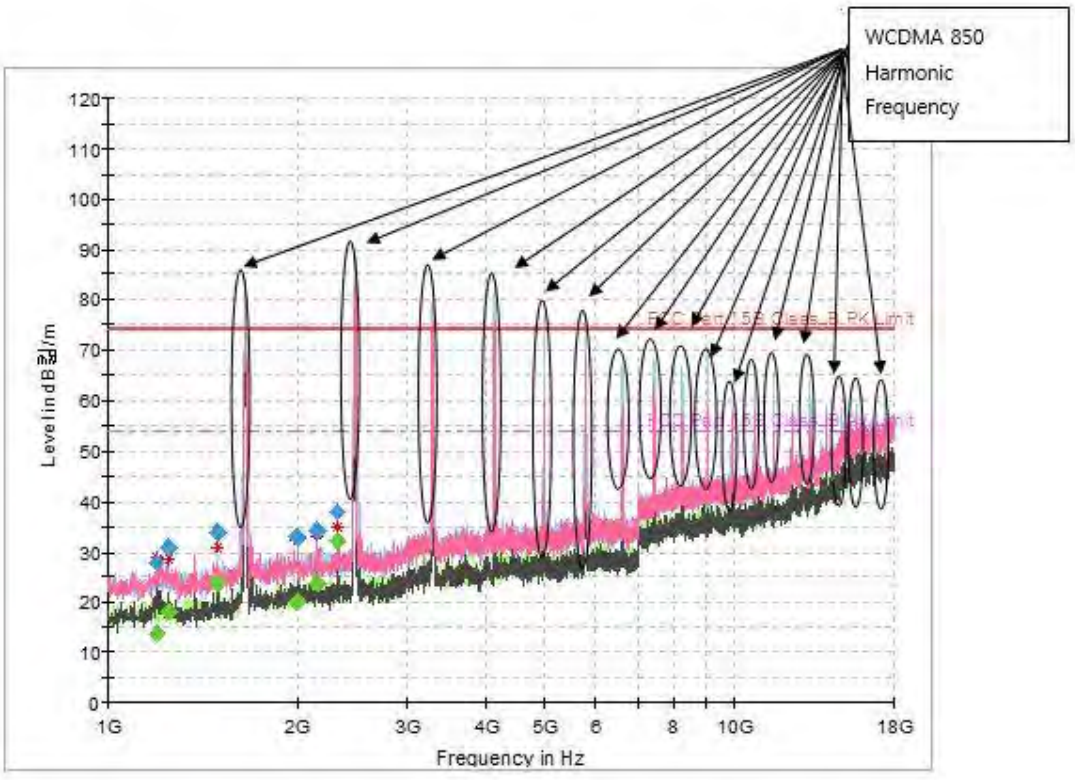
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	30.49	---	74.00	43.51	1000.0	1000.000	99.9	V	141.0	-19.2
1198.900	---	15.59	54.00	38.41	1000.0	1000.000	99.9	V	141.0	-19.2
1499.800	37.17	---	74.00	36.83	1000.0	1000.000	99.9	V	141.0	-16.7
1499.800	---	28.31	54.00	25.69	1000.0	1000.000	99.9	V	141.0	-16.7
1989.400	32.13	---	74.00	41.87	1000.0	1000.000	99.9	V	141.0	-13.8
1989.400	---	18.82	54.00	35.18	1000.0	1000.000	99.9	V	141.0	-13.8
4527.500	36.90	---	74.00	37.10	1000.0	1000.000	99.9	V	141.0	-5.5
4527.500	---	24.07	54.00	29.93	1000.0	1000.000	99.9	V	141.0	-5.5
7835.700	---	32.01	54.00	21.99	1000.0	1000.000	99.9	H	183.0	0.2
7835.700	45.52	---	74.00	28.48	1000.0	1000.000	99.9	H	183.0	0.2
16923.900	---	44.30	54.00	9.70	1000.0	1000.000	99.9	V	3.0	9.5
16923.900	57.15	---	74.00	16.85	1000.0	1000.000	99.9	V	3.0	9.5

DATA (Above 1 GHz : MODE 8_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 8_HIGH



Final_Result

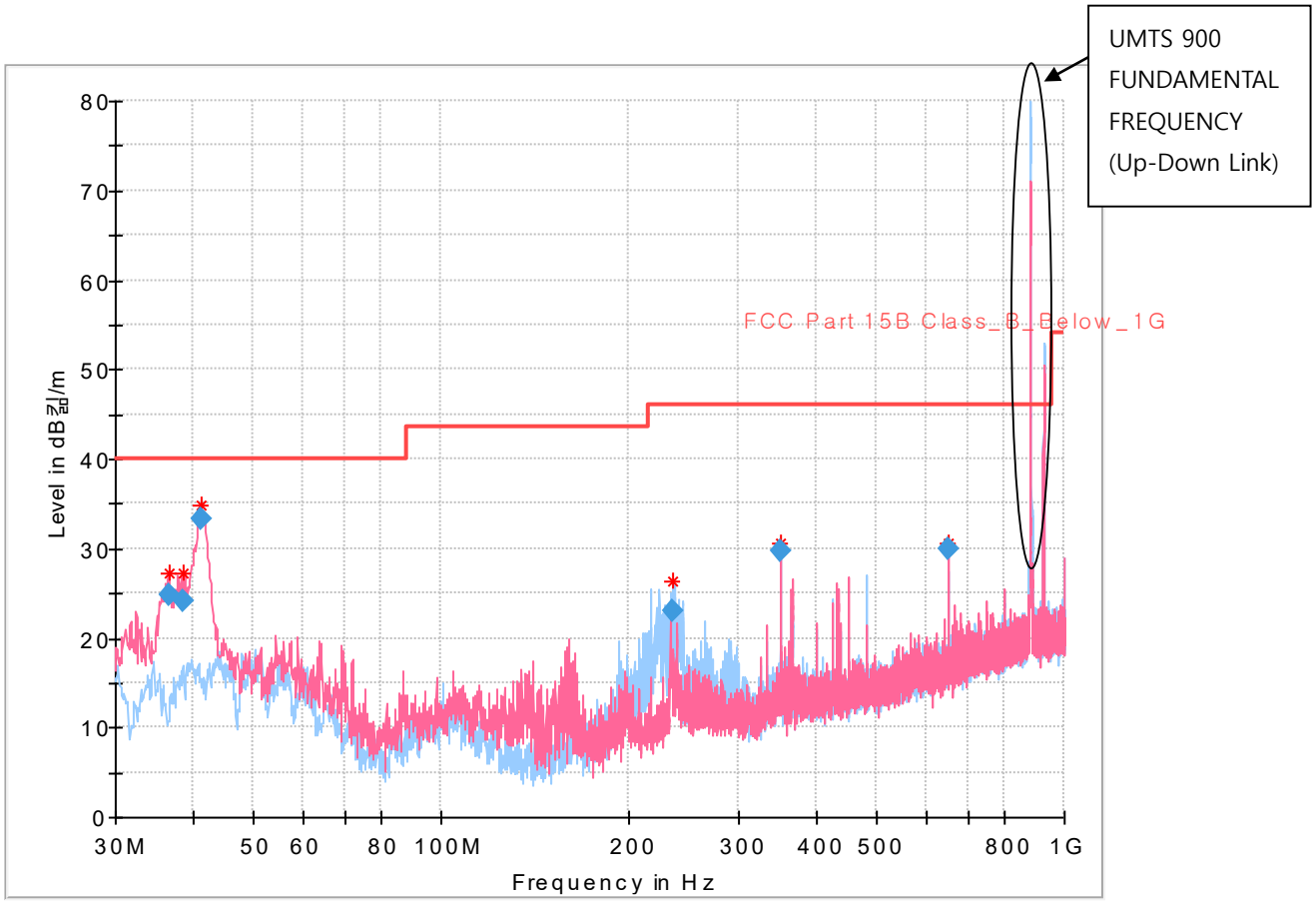
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	27.80	---	74.00	46.20	1000.0	1000.000	99.9	V	102.0	-19.2
1198.900	---	13.71	54.00	40.29	1000.0	1000.000	99.9	V	102.0	-19.2
1249.900	---	18.23	54.00	35.77	1000.0	1000.000	99.9	V	222.0	-18.8
1249.900	30.79	---	74.00	43.21	1000.0	1000.000	99.9	V	222.0	-18.8
1499.800	---	23.88	54.00	30.12	1000.0	1000.000	99.9	H	0.0	-16.7
1499.800	33.98	---	74.00	40.02	1000.0	1000.000	99.9	H	0.0	-16.7
1999.600	---	19.96	54.00	34.04	1000.0	1000.000	99.9	V	102.0	-13.7
1999.600	32.90	---	74.00	41.10	1000.0	1000.000	99.9	V	102.0	-13.7
2164.500	---	23.69	54.00	30.31	1000.0	1000.000	99.9	V	148.0	-13.4
2164.500	34.30	---	74.00	39.70	1000.0	1000.000	99.9	V	148.0	-13.4
2331.100	37.99	---	74.00	36.01	1000.0	1000.000	99.9	V	102.0	-13.3
2331.100	---	32.10	54.00	21.90	1000.0	1000.000	99.9	V	102.0	-13.3

DATA (Below 1 GHz : MODE 9_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 9_LOW



Final_Result

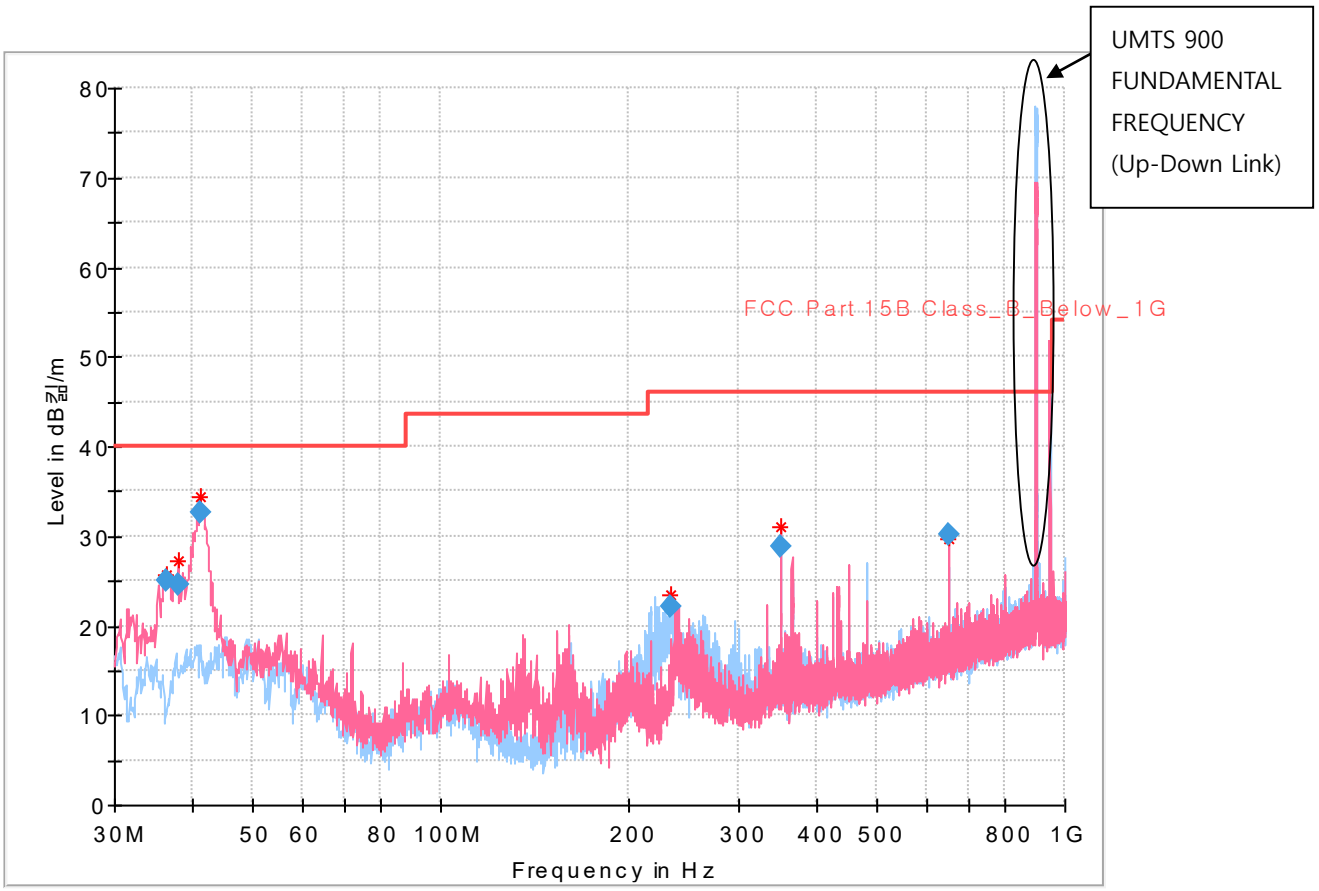
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.499	24.75	40.00	15.25	1000.0	120.000	100.0	V	266.0	-22.1
38.633	24.17	40.00	15.83	1000.0	120.000	100.0	V	266.0	-20.7
41.252	33.36	40.00	6.64	1000.0	120.000	100.0	V	266.0	-20.0
235.155	22.91	46.00	23.09	1000.0	120.000	100.0	H	222.0	-19.6
350.003	29.73	46.00	16.27	1000.0	120.000	100.0	H	115.0	-16.1
650.024	29.96	46.00	16.04	1000.0	120.000	100.0	V	118.0	-11.0

DATA (Below 1 GHz : MODE 9_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 9_MID



Final_Result

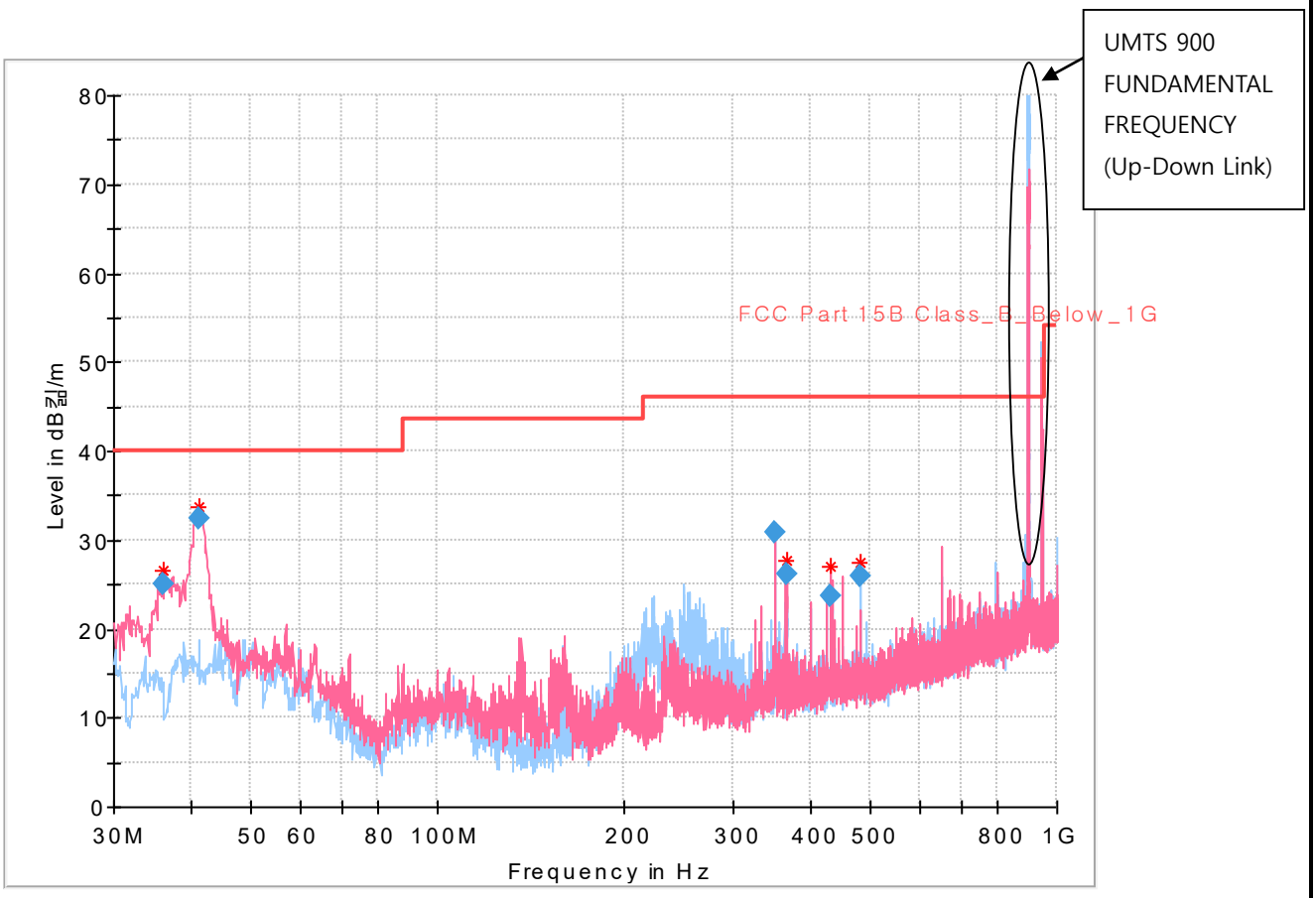
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	25.12	40.00	14.88	1000.0	120.000	100.0	V	76.0	-22.1
37.857	24.53	40.00	15.47	1000.0	120.000	100.0	V	303.0	-21.0
41.058	32.61	40.00	7.39	1000.0	120.000	100.0	V	303.0	-20.1
233.894	22.17	46.00	23.83	1000.0	120.000	100.0	H	251.0	-19.7
350.003	28.75	46.00	17.25	1000.0	120.000	100.0	H	251.0	-16.1
650.024	30.24	46.00	15.76	1000.0	120.000	100.0	V	110.0	-11.0

DATA (Below 1 GHz : MODE 9_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 9_HIGH



Final_Result

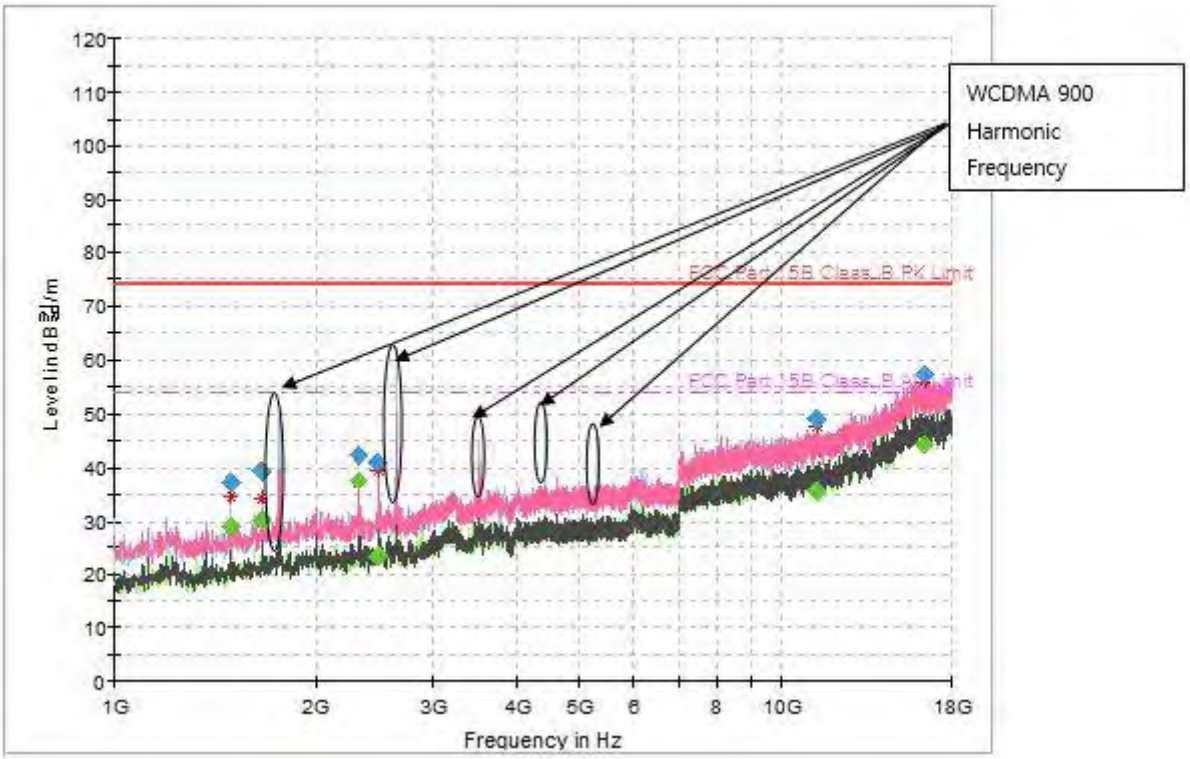
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.208	25.00	40.00	15.00	1000.0	120.000	100.0	V	0.0	-22.1
41.252	32.40	40.00	7.60	1000.0	120.000	100.0	V	93.0	-20.0
350.003	30.94	46.00	15.06	1000.0	120.000	100.0	H	260.0	-16.1
365.135	26.23	46.00	19.77	1000.0	120.000	100.0	V	160.0	-16.5
431.386	23.77	46.00	22.23	1000.0	120.000	100.0	V	147.0	-14.8
479.983	25.86	46.00	20.14	1000.0	120.000	100.0	H	180.0	-13.8

DATA (Above 1 GHz : MODE 9_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 9_LOW



Final_Result

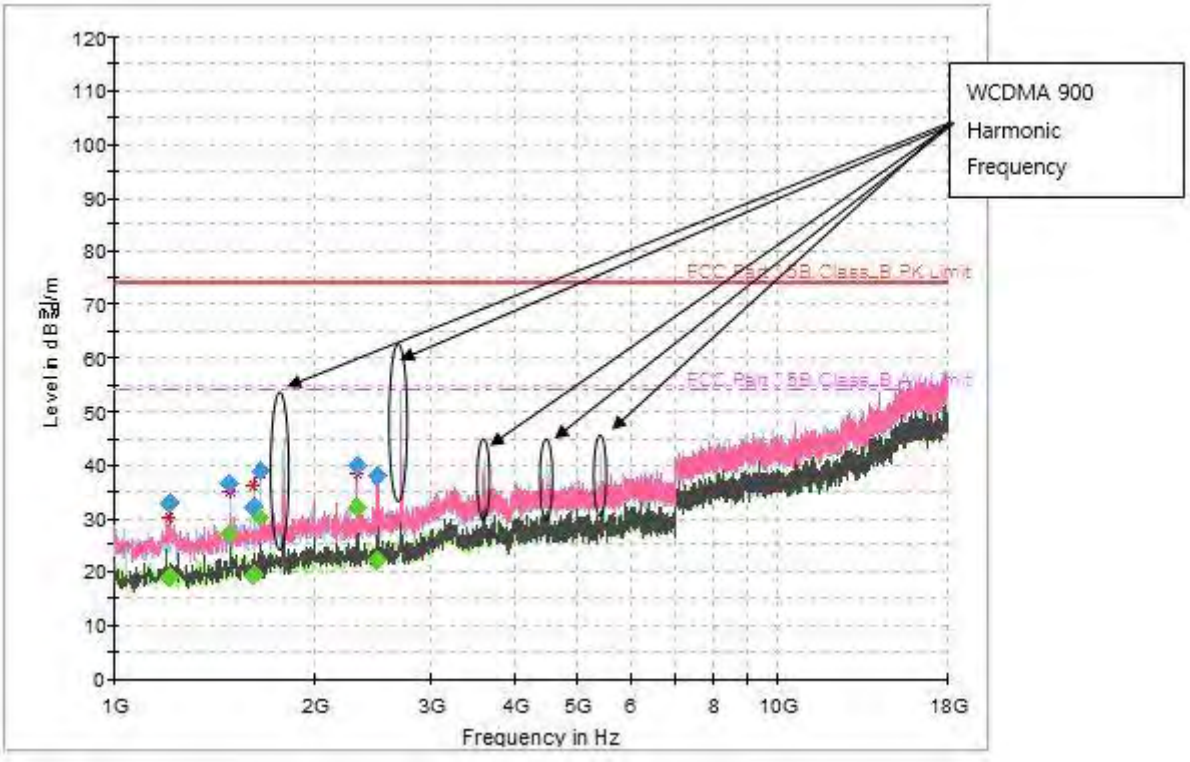
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	37.34	---	74.00	36.66	1000.0	1000.000	99.9	H	318.0	-16.7
1499.800	---	28.76	54.00	25.24	1000.0	1000.000	99.9	H	318.0	-16.7
1664.700	39.12	---	74.00	34.88	1000.0	1000.000	99.9	H	70.0	-15.9
1664.700	---	30.31	54.00	23.69	1000.0	1000.000	99.9	H	70.0	-15.9
2331.100	42.40	---	74.00	31.60	1000.0	1000.000	99.9	V	95.0	-13.3
2331.100	---	37.51	54.00	16.49	1000.0	1000.000	99.9	V	95.0	-13.3
2489.200	---	23.33	54.00	30.67	1000.0	1000.000	99.9	V	95.0	-12.5
2489.200	41.05	---	74.00	32.95	1000.0	1000.000	99.9	V	95.0	-12.5
11319.000	---	35.56	54.00	18.44	1000.0	1000.000	99.9	V	262.0	2.9
11319.000	49.09	---	74.00	24.91	1000.0	1000.000	99.9	V	262.0	2.9
16436.000	57.36	---	74.00	16.64	1000.0	1000.000	99.9	H	349.0	9.0
16436.000	---	44.36	54.00	9.64	1000.0	1000.000	99.9	H	349.0	9.0

DATA (Above 1 GHz : MODE 9_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 9_MID



Final_Result

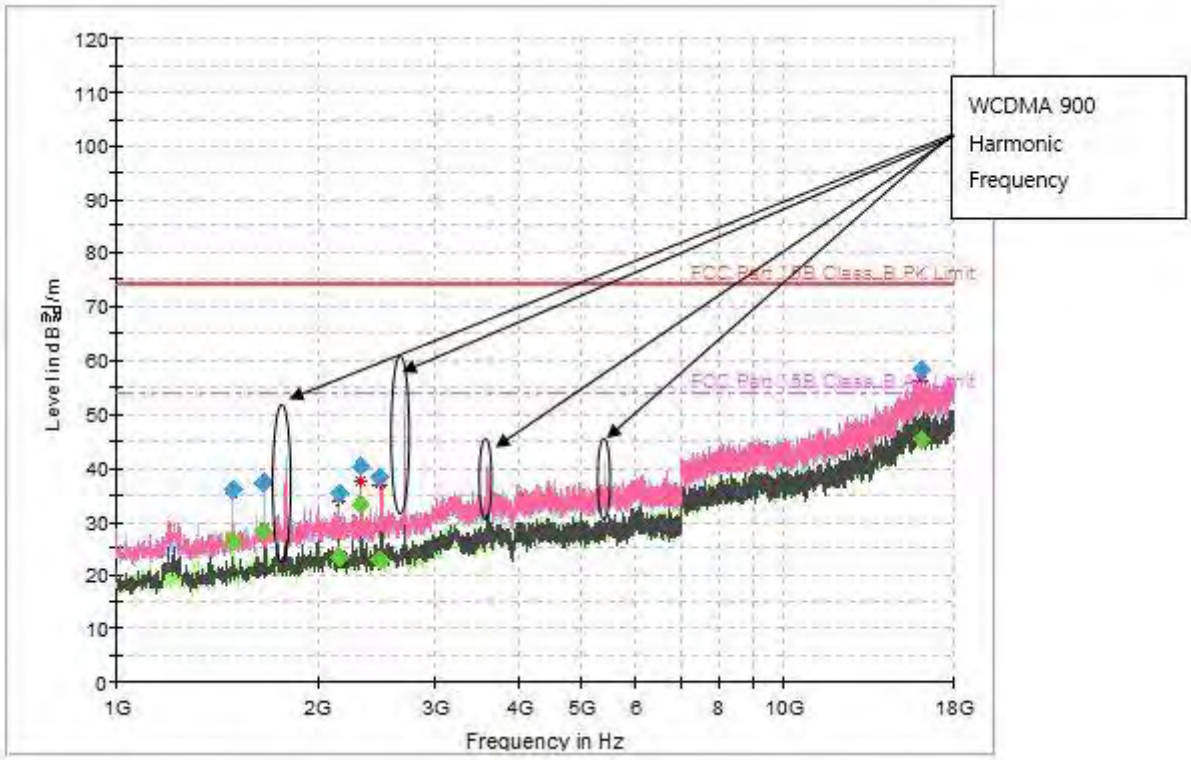
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1209.100	---	18.95	54.00	35.05	1000.0	1000.000	99.9	V	113.0	-19.2
1209.100	32.68	---	74.00	41.32	1000.0	1000.000	99.9	V	113.0	-19.2
1499.800	---	27.20	54.00	26.80	1000.0	1000.000	99.9	H	109.0	-16.7
1499.800	36.58	---	74.00	37.42	1000.0	1000.000	99.9	H	109.0	-16.7
1623.900	32.31	---	74.00	41.69	1000.0	1000.000	99.9	H	69.0	-16.2
1623.900	---	19.58	54.00	34.42	1000.0	1000.000	99.9	H	69.0	-16.2
1664.700	---	30.32	54.00	23.68	1000.0	1000.000	99.9	H	142.0	-15.9
1664.700	38.85	---	74.00	35.15	1000.0	1000.000	99.9	H	142.0	-15.9
2331.100	39.73	---	74.00	34.27	1000.0	1000.000	99.9	V	78.0	-13.3
2331.100	---	32.17	54.00	21.83	1000.0	1000.000	99.9	V	78.0	-13.3
2492.600	---	22.17	54.00	31.83	1000.0	1000.000	99.9	V	113.0	-12.5
2492.600	38.02	---	74.00	35.98	1000.0	1000.000	99.9	V	113.0	-12.5

DATA (Above 1 GHz : MODE 9_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 9_HIGH



Final_Result

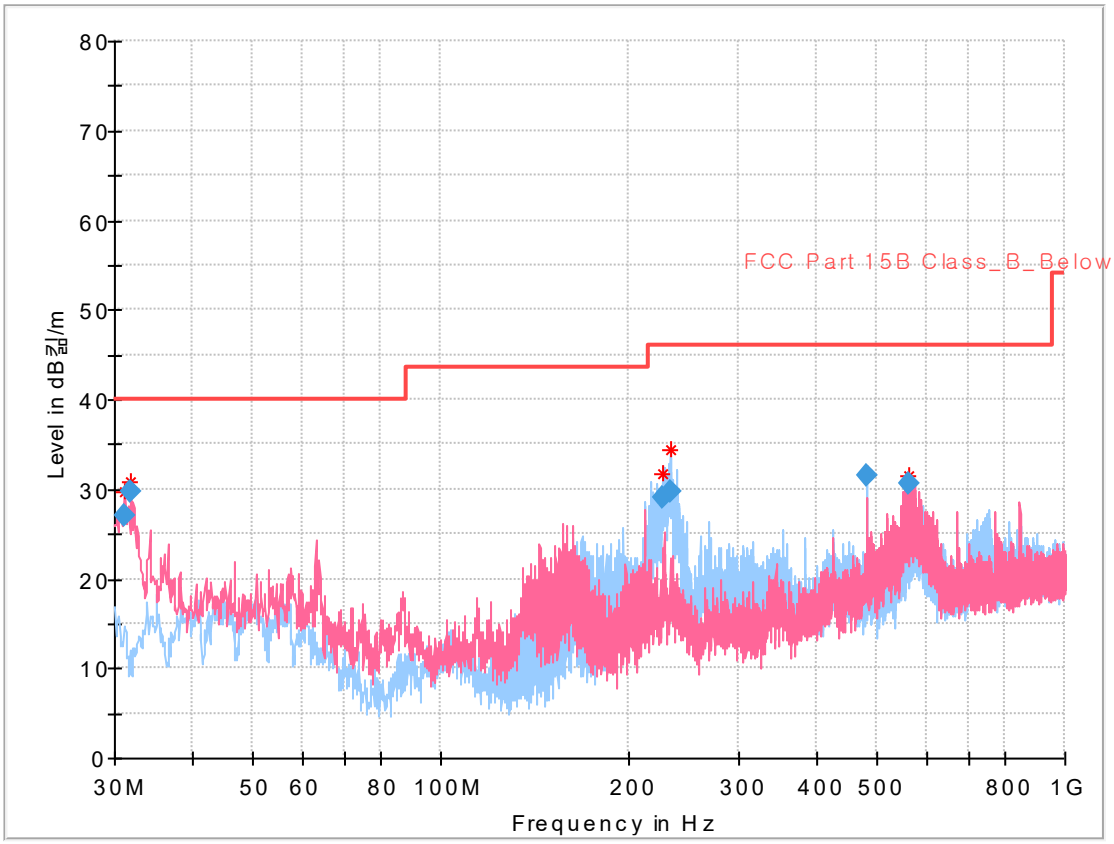
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	35.99	---	74.00	38.01	1000.0	1000.000	99.9	H	110.0	-16.7
1499.800	---	26.49	54.00	27.51	1000.0	1000.000	99.9	H	110.0	-16.7
1664.700	---	28.14	54.00	25.86	1000.0	1000.000	99.9	H	38.0	-15.9
1664.700	37.15	---	74.00	36.85	1000.0	1000.000	99.9	H	38.0	-15.9
2164.500	35.15	---	74.00	38.85	1000.0	1000.000	99.9	H	7.0	-13.4
2164.500	---	23.44	54.00	30.56	1000.0	1000.000	99.9	H	7.0	-13.4
2331.100	40.30	---	74.00	33.70	1000.0	1000.000	99.9	V	80.0	-13.3
2331.100	---	33.32	54.00	20.68	1000.0	1000.000	99.9	V	80.0	-13.3
2496.000	---	22.78	54.00	31.22	1000.0	1000.000	99.9	V	114.0	-12.5
2496.000	38.32	---	74.00	35.68	1000.0	1000.000	99.9	V	114.0	-12.5
16080.700	58.46	---	74.00	15.54	1000.0	1000.000	99.9	H	110.0	9.4
16080.700	---	45.16	54.00	8.84	1000.0	1000.000	99.9	H	110.0	9.4

DATA (Below 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 10_LOW



Final_Result

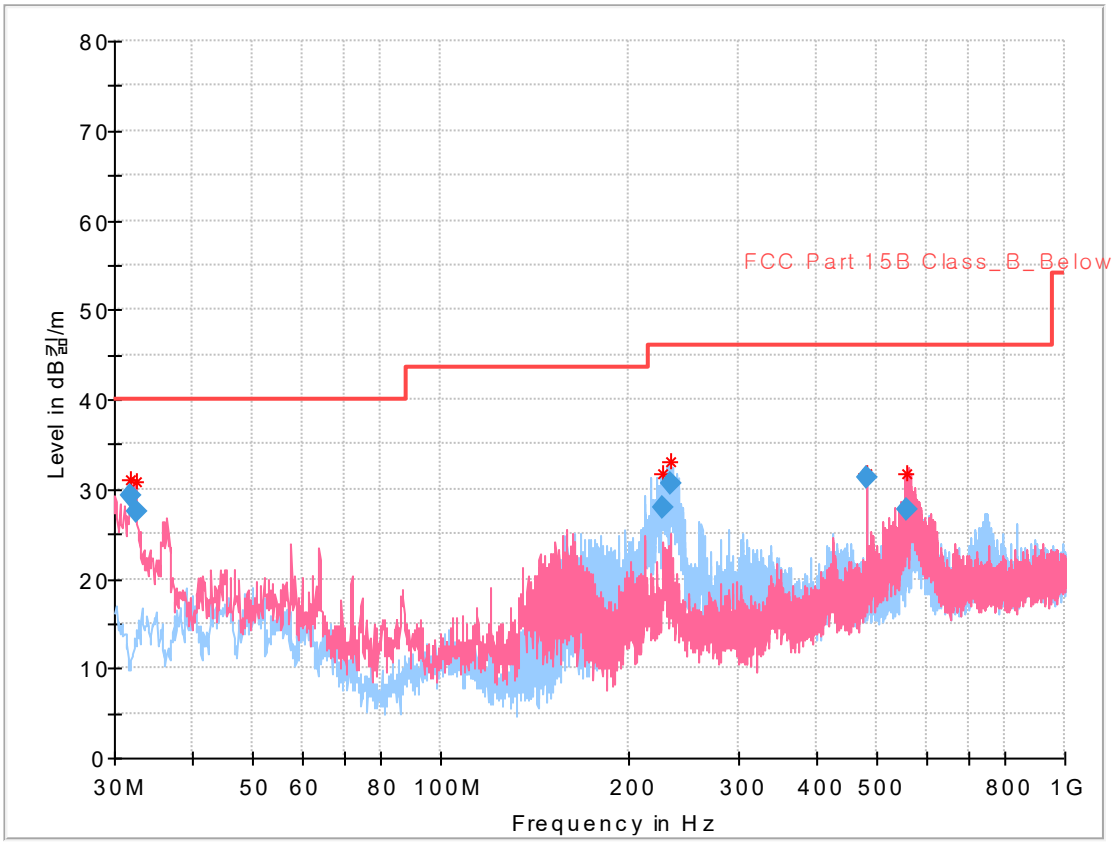
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.067	26.98	40.00	13.02	1000.0	120.000	100.0	V	260.0	-23.4
31.940	29.70	40.00	10.30	1000.0	120.000	100.0	V	0.0	-23.5
226.037	29.11	46.00	16.89	1000.0	120.000	100.0	H	288.0	-20.5
232.730	29.70	46.00	16.30	1000.0	120.000	100.0	H	288.0	-19.7
479.983	31.50	46.00	14.50	1000.0	120.000	100.0	H	89.0	-13.8
564.082	30.71	46.00	15.29	1000.0	120.000	100.0	V	155.0	-12.2

DATA (Below 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 10_MID



Final_Result

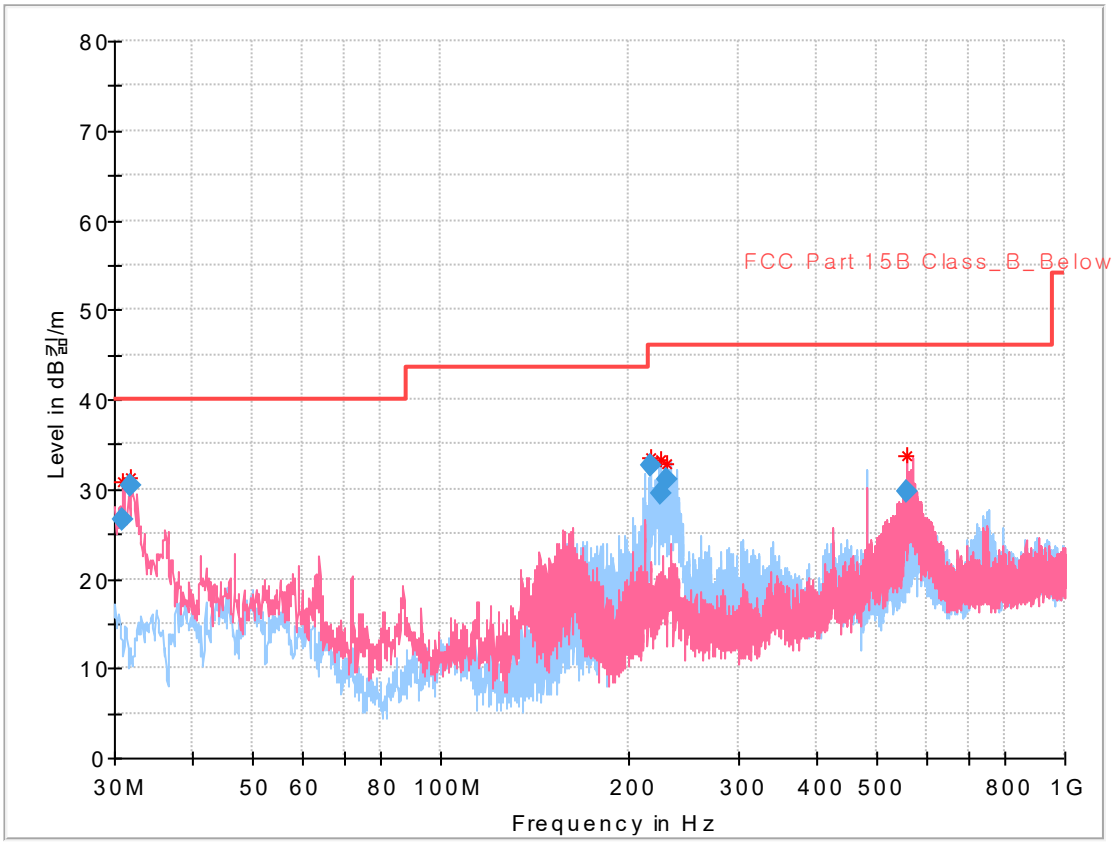
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	29.37	40.00	10.63	1000.0	120.000	100.0	V	257.0	-23.5
32.425	27.43	40.00	12.57	1000.0	120.000	100.0	V	8.0	-23.2
226.619	27.85	46.00	18.15	1000.0	120.000	100.0	H	218.0	-20.5
233.894	30.70	46.00	15.30	1000.0	120.000	100.0	H	301.0	-19.7
479.983	31.18	46.00	14.82	1000.0	120.000	100.0	H	56.0	-13.8
558.747	27.69	46.00	18.31	1000.0	120.000	100.0	V	174.0	-12.2

DATA (Below 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 10_HIGH



Final_Result

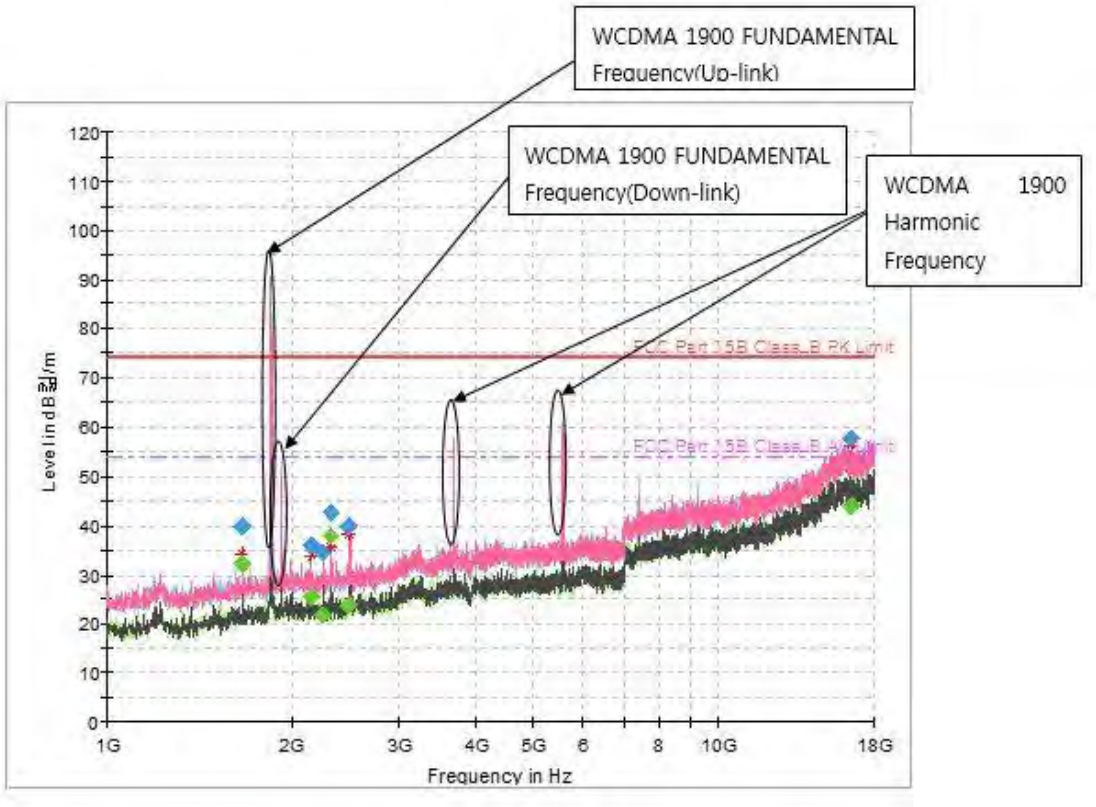
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.970	26.63	40.00	13.37	1000.0	120.000	100.0	V	3.0	-23.3
31.940	30.38	40.00	9.62	1000.0	120.000	100.0	V	0.0	-23.5
216.919	32.61	46.00	13.39	1000.0	120.000	100.0	H	265.0	-21.2
224.970	29.46	46.00	16.54	1000.0	120.000	100.0	H	237.0	-20.6
230.305	30.99	46.00	15.01	1000.0	120.000	100.0	H	237.0	-20.0
558.165	29.72	46.00	16.28	1000.0	120.000	100.0	V	172.0	-12.2

DATA (Above 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_LOW



Final_Result

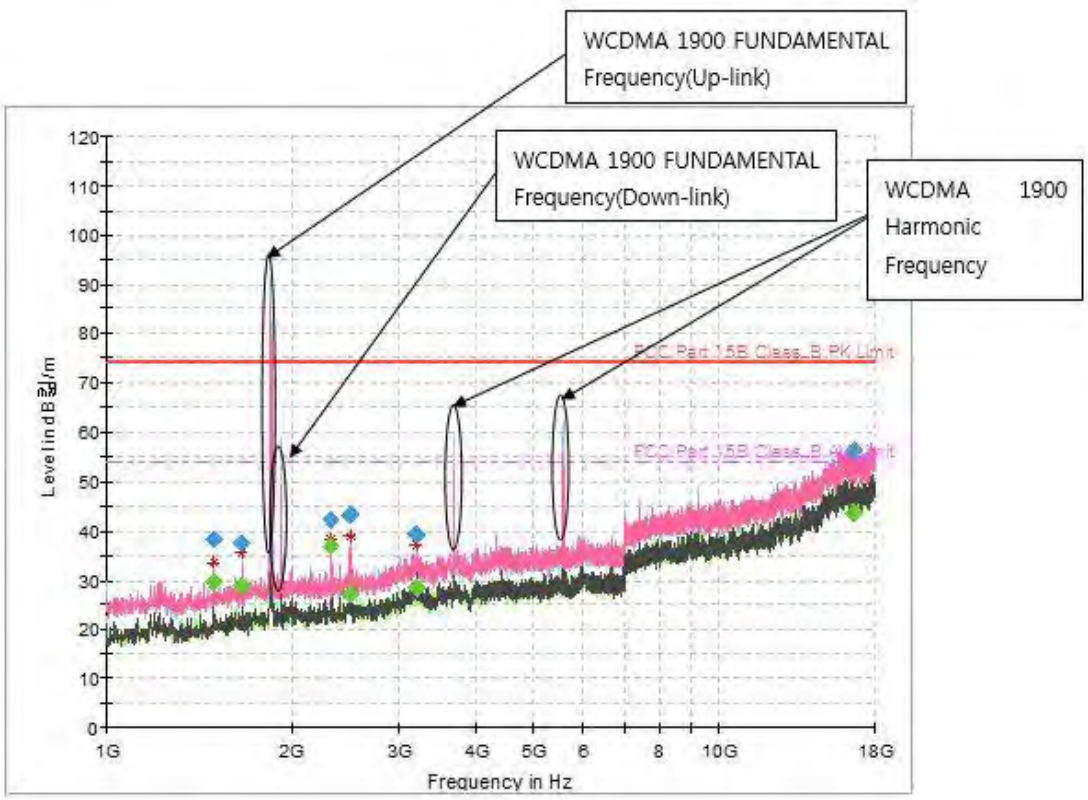
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1664.700	39.74	---	74.00	34.26	1000.0	1000.000	99.9	H	137.0	-15.9
1664.700	---	32.04	54.00	21.96	1000.0	1000.000	99.9	H	137.0	-15.9
2164.500	---	25.63	54.00	28.37	1000.0	1000.000	99.9	H	69.0	-13.4
2164.500	35.96	---	74.00	38.04	1000.0	1000.000	99.9	H	69.0	-13.4
2249.500	34.69	---	74.00	39.31	1000.0	1000.000	99.9	V	129.0	-13.4
2249.500	---	21.94	54.00	32.06	1000.0	1000.000	99.9	V	129.0	-13.4
2331.100	---	37.78	54.00	16.22	1000.0	1000.000	99.9	V	97.0	-13.3
2331.100	42.71	---	74.00	31.29	1000.0	1000.000	99.9	V	97.0	-13.3
2489.200	39.95	---	74.00	34.05	1000.0	1000.000	99.9	V	129.0	-12.5
2489.200	---	23.80	54.00	30.20	1000.0	1000.000	99.9	V	129.0	-12.5
16507.400	57.53	---	74.00	16.47	1000.0	1000.000	99.9	H	0.0	9.0
16507.400	---	43.87	54.00	10.13	1000.0	1000.000	99.9	H	0.0	9.0

DATA (Above 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 10_MID



Final_Result

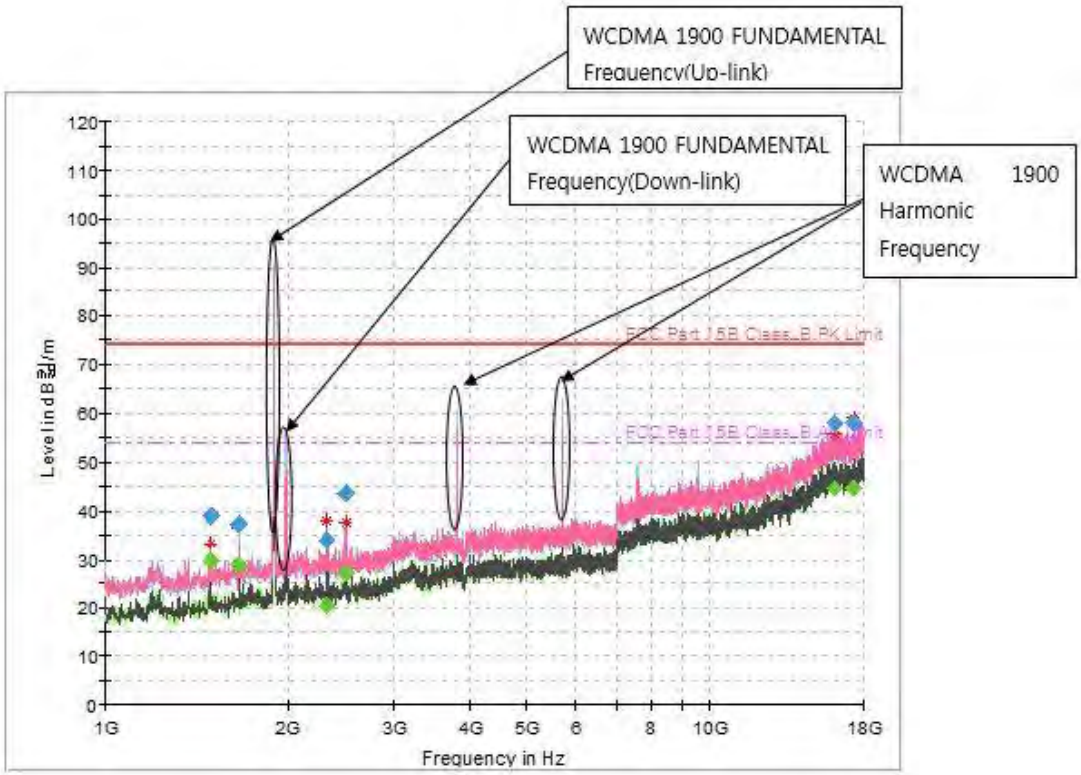
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1664.700	39.74	---	74.00	34.26	1000.0	1000.000	99.9	H	137.0	-15.9
1664.700	---	32.04	54.00	21.96	1000.0	1000.000	99.9	H	137.0	-15.9
2164.500	---	25.63	54.00	28.37	1000.0	1000.000	99.9	H	69.0	-13.4
2164.500	35.96	---	74.00	38.04	1000.0	1000.000	99.9	H	69.0	-13.4
2249.500	34.69	---	74.00	39.31	1000.0	1000.000	99.9	V	129.0	-13.4
2249.500	---	21.94	54.00	32.06	1000.0	1000.000	99.9	V	129.0	-13.4
2331.100	---	37.78	54.00	16.22	1000.0	1000.000	99.9	V	97.0	-13.3
2331.100	42.71	---	74.00	31.29	1000.0	1000.000	99.9	V	97.0	-13.3
2489.200	39.95	---	74.00	34.05	1000.0	1000.000	99.9	V	129.0	-12.5
2489.200	---	23.80	54.00	30.20	1000.0	1000.000	99.9	V	129.0	-12.5
16507.400	57.53	---	74.00	16.47	1000.0	1000.000	99.9	H	0.0	9.0
16507.400	---	43.87	54.00	10.13	1000.0	1000.000	99.9	H	0.0	9.0

DATA (Above 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_HIGH



Final_Result

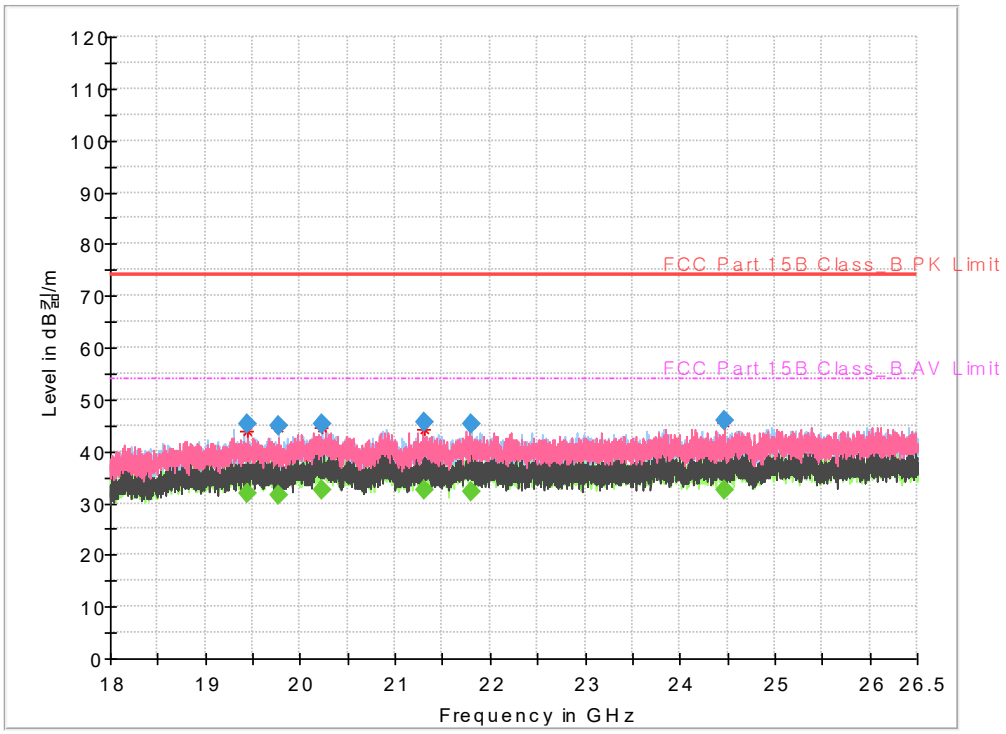
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	38.73	---	74.00	35.27	1000.0	1000.000	99.9	H	139.0	-16.7
1499.800	---	29.78	54.00	24.22	1000.0	1000.000	99.9	H	139.0	-16.7
1664.700	37.36	---	74.00	36.64	1000.0	1000.000	99.9	H	39.0	-15.9
1664.700	---	28.71	54.00	25.29	1000.0	1000.000	99.9	H	39.0	-15.9
2329.400	33.93	---	74.00	40.07	1000.0	1000.000	99.9	V	124.0	-13.3
2329.400	---	20.35	54.00	33.65	1000.0	1000.000	99.9	V	124.0	-13.3
2499.400	43.51	---	74.00	30.49	1000.0	1000.000	99.9	V	89.0	-12.5
2499.400	---	27.14	54.00	26.86	1000.0	1000.000	99.9	V	89.0	-12.5
16101.100	---	44.64	54.00	9.36	1000.0	1000.000	99.9	V	294.0	9.3
16101.100	58.12	---	74.00	15.88	1000.0	1000.000	99.9	V	294.0	9.3
17297.900	---	44.57	54.00	9.43	1000.0	1000.000	99.9	V	294.0	9.7
17297.900	57.86	---	74.00	16.14	1000.0	1000.000	99.9	V	294.0	9.7

DATA (Above 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 10_LOW



Final_Result

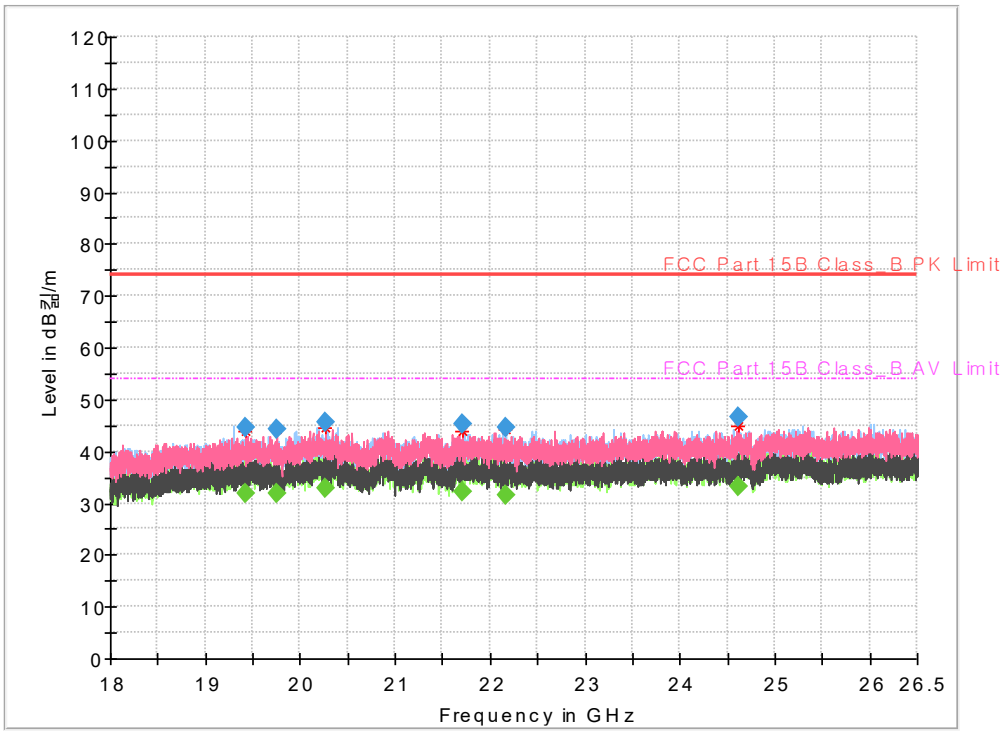
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19445.000	---	31.91	54.00	22.09	1000.0	1000.000	100.0	V	76.0	17.7
19445.000	45.10	---	74.00	28.90	1000.0	1000.000	100.0	V	76.0	17.7
19768.000	---	31.66	54.00	22.34	1000.0	1000.000	100.0	H	200.0	17.6
19768.000	44.81	---	74.00	29.19	1000.0	1000.000	100.0	H	200.0	17.6
20222.750	45.12	---	74.00	28.88	1000.0	1000.000	100.0	H	250.0	18.1
20222.750	---	32.53	54.00	21.47	1000.0	1000.000	100.0	H	250.0	18.1
21303.100	---	32.37	54.00	21.63	1000.0	1000.000	100.0	H	61.0	18.4
21303.100	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	61.0	18.4
21796.950	---	32.19	54.00	21.81	1000.0	1000.000	100.0	H	200.0	18.3
21796.950	45.16	---	74.00	28.84	1000.0	1000.000	100.0	H	200.0	18.3
24471.900	45.89	---	74.00	28.11	1000.0	1000.000	100.0	V	31.0	18.8
24471.900	---	32.52	54.00	21.48	1000.0	1000.000	100.0	V	31.0	18.8

DATA (Above 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 10_MID



Final_Result

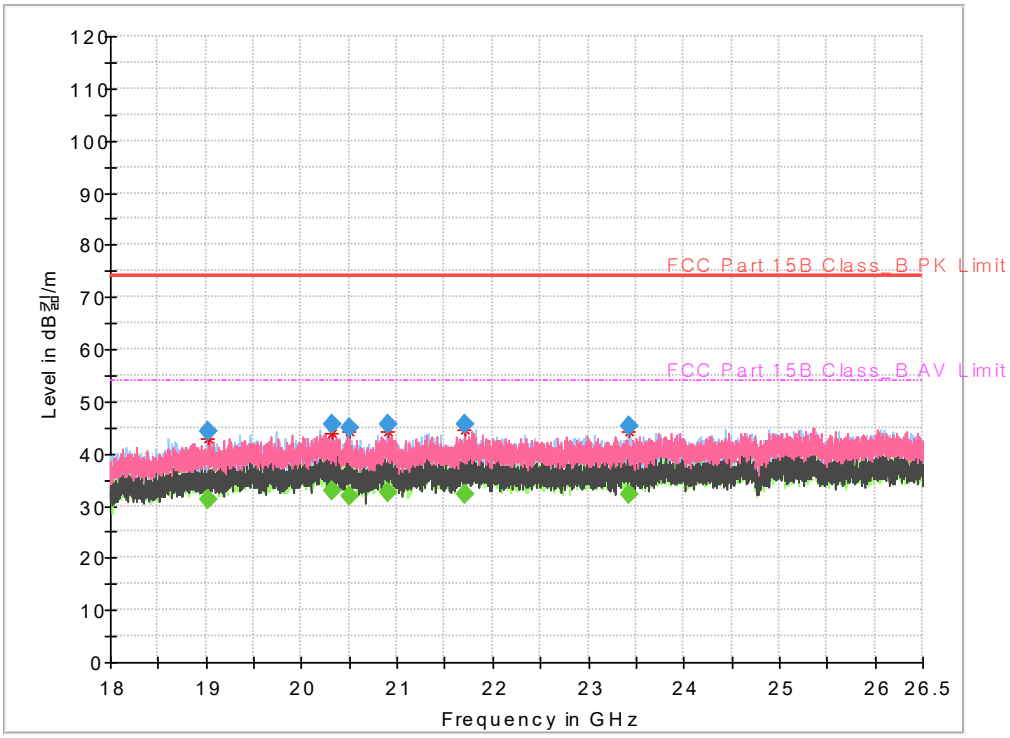
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19433.950	44.52	---	74.00	29.48	1000.0	1000.000	100.0	V	0.0	17.7
19433.950	---	31.88	54.00	22.12	1000.0	1000.000	100.0	V	0.0	17.7
19752.700	---	31.76	54.00	22.24	1000.0	1000.000	100.0	V	265.0	17.6
19752.700	44.41	---	74.00	29.59	1000.0	1000.000	100.0	V	265.0	17.6
20272.050	45.72	---	74.00	28.28	1000.0	1000.000	100.0	V	352.0	18.2
20272.050	---	32.82	54.00	21.18	1000.0	1000.000	100.0	V	352.0	18.2
21714.500	---	32.29	54.00	21.71	1000.0	1000.000	100.0	V	145.0	18.3
21714.500	45.38	---	74.00	28.62	1000.0	1000.000	100.0	V	145.0	18.3
22165.000	44.52	---	74.00	29.48	1000.0	1000.000	100.0	H	121.0	18.2
22165.000	---	31.61	54.00	22.39	1000.0	1000.000	100.0	H	121.0	18.2
24614.700	46.45	---	74.00	27.55	1000.0	1000.000	100.0	V	57.0	18.9
24614.700	---	33.19	54.00	20.81	1000.0	1000.000	100.0	V	57.0	18.9

DATA (Above 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 10_HIGH



Final_Result

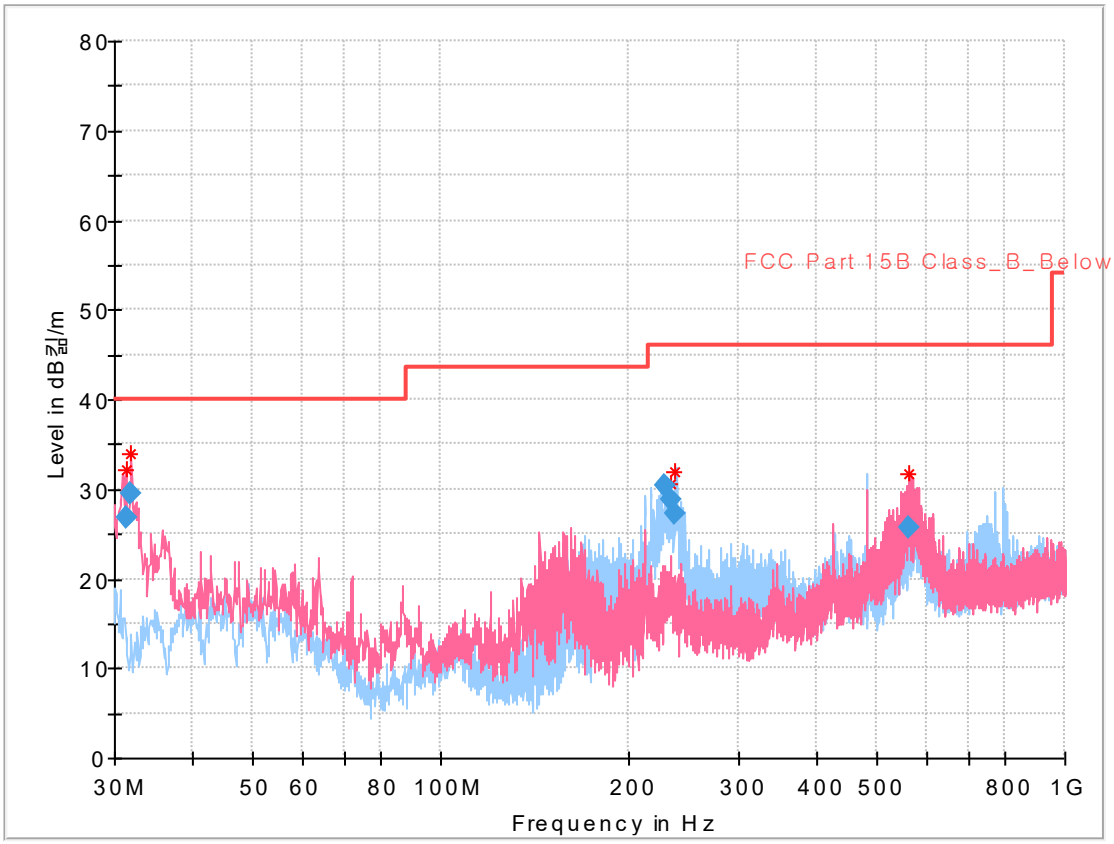
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19030.200	44.10	---	74.00	29.90	1000.0	1000.000	100.0	H	151.0	17.1
19030.200	---	31.20	54.00	22.80	1000.0	1000.000	100.0	H	151.0	17.1
20326.450	45.64	---	74.00	28.36	1000.0	1000.000	100.0	V	16.0	18.3
20326.450	---	32.81	54.00	21.19	1000.0	1000.000	100.0	V	16.0	18.3
20498.150	---	31.97	54.00	22.03	1000.0	1000.000	100.0	V	16.0	18.2
20498.150	44.77	---	74.00	29.23	1000.0	1000.000	100.0	V	16.0	18.2
20902.750	---	32.60	54.00	21.40	1000.0	1000.000	100.0	H	36.0	18.3
20902.750	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	36.0	18.3
21712.800	---	32.23	54.00	21.77	1000.0	1000.000	100.0	V	161.0	18.3
21712.800	45.51	---	74.00	28.49	1000.0	1000.000	100.0	V	161.0	18.3
23430.650	---	32.09	54.00	21.91	1000.0	1000.000	100.0	H	108.0	18.4
23430.650	45.41	---	74.00	28.59	1000.0	1000.000	100.0	H	108.0	18.4

DATA (Below 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 11_LOW



Final_Result

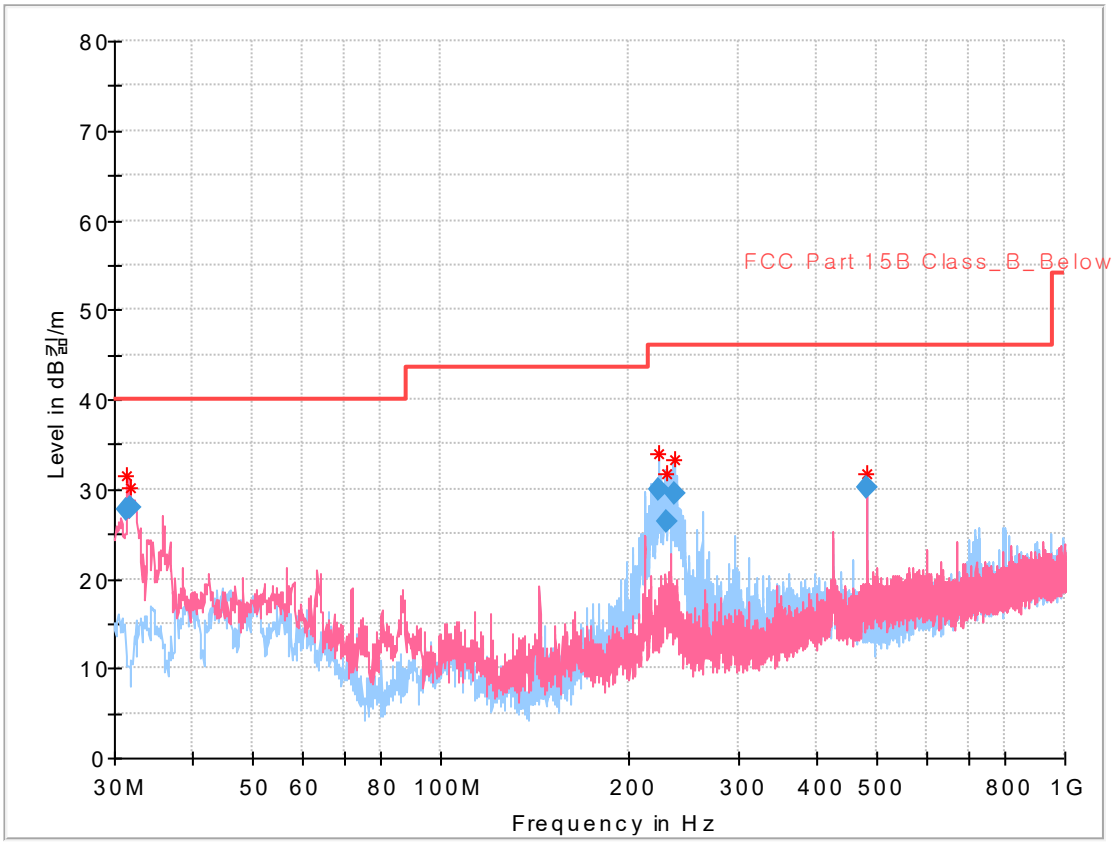
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	26.89	40.00	13.11	1000.0	120.000	100.0	V	0.0	-23.5
31.940	29.51	40.00	10.49	1000.0	120.000	100.0	V	0.0	-23.5
228.365	30.43	46.00	15.57	1000.0	120.000	100.0	H	247.0	-20.3
232.730	28.81	46.00	17.19	1000.0	120.000	100.0	H	111.0	-19.7
237.677	27.19	46.00	18.81	1000.0	120.000	100.0	H	152.0	-19.6
562.724	25.70	46.00	20.30	1000.0	120.000	100.0	V	157.0	-12.2

DATA (Below 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 11_MID



Final_Result

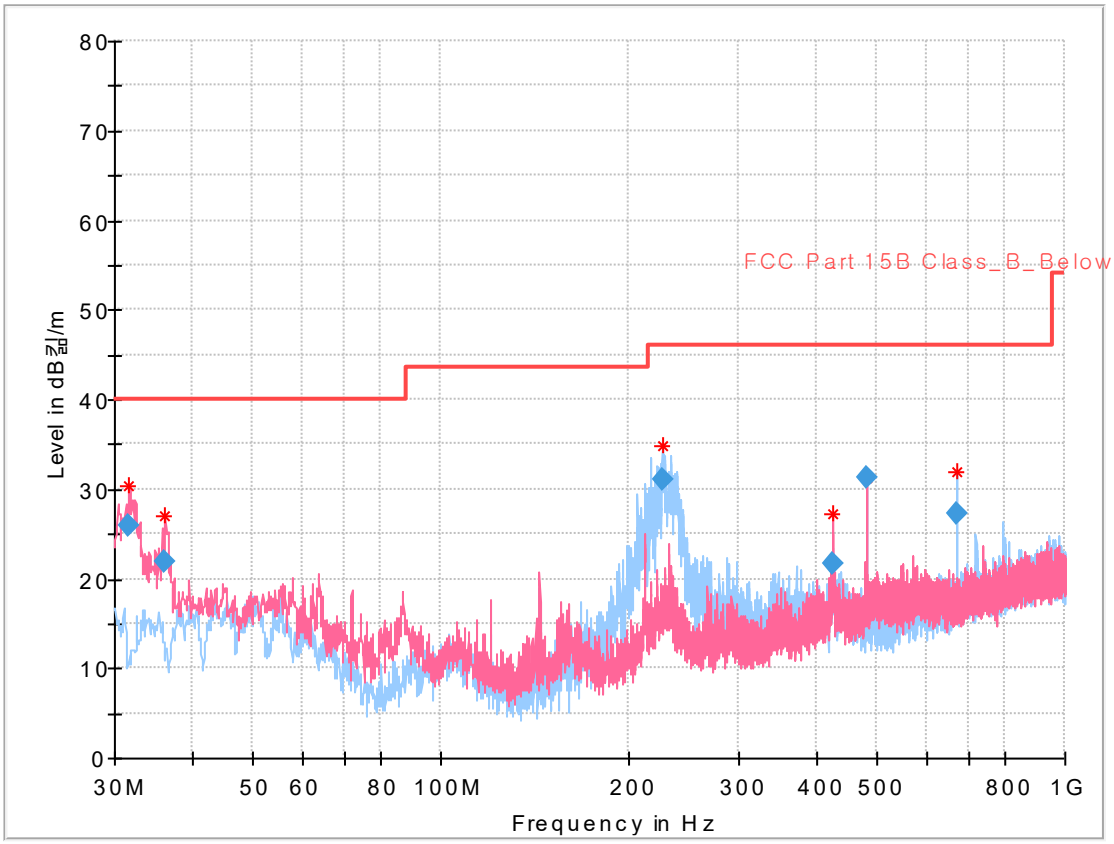
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.455	27.72	40.00	12.28	1000.0	120.000	100.0	V	43.0	-23.6
31.843	27.98	40.00	12.02	1000.0	120.000	100.0	V	272.0	-23.5
223.515	29.88	46.00	16.12	1000.0	120.000	100.0	H	230.0	-20.8
230.693	26.29	46.00	19.71	1000.0	120.000	100.0	H	119.0	-20.0
237.580	29.56	46.00	16.44	1000.0	120.000	100.0	H	119.0	-19.6
479.983	30.24	46.00	15.76	1000.0	120.000	100.0	H	92.0	-13.8

DATA (Below 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	RE_MODE 11_HIGH



Final_Result

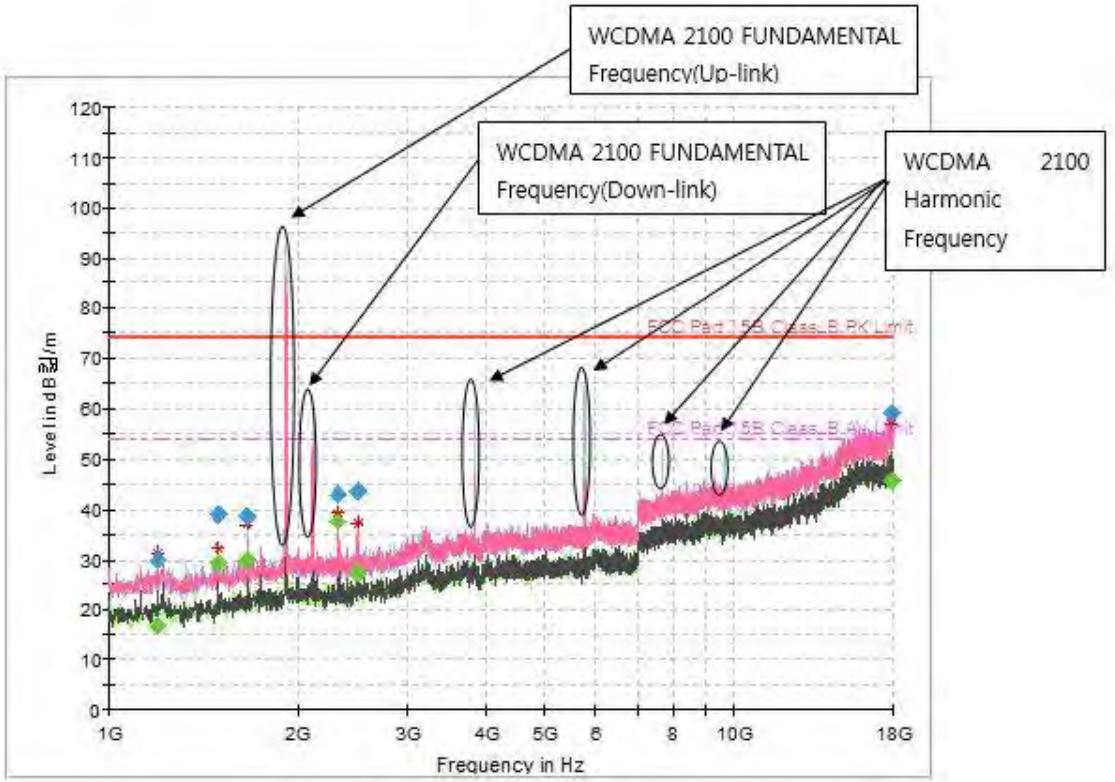
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.649	26.00	40.00	14.00	1000.0	120.000	100.0	V	137.0	-23.6
36.208	21.95	40.00	18.05	1000.0	120.000	100.0	V	137.0	-22.1
225.940	31.11	46.00	14.89	1000.0	120.000	100.0	H	249.0	-20.5
423.335	21.63	46.00	24.37	1000.0	120.000	100.0	V	164.0	-15.0
479.983	31.26	46.00	14.74	1000.0	120.000	100.0	H	72.0	-13.8
672.043	27.33	46.00	18.67	1000.0	120.000	100.0	H	265.0	-10.6

DATA (Above 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_LOW



Final_Result

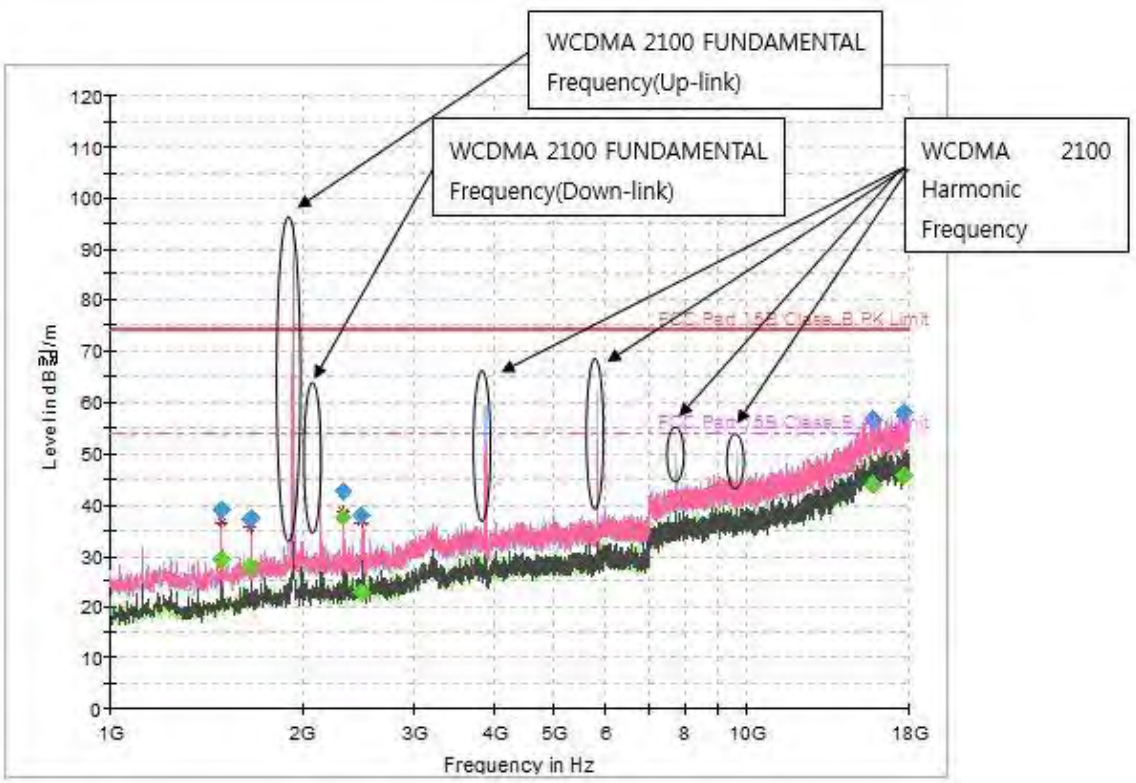
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	---	16.89	54.00	37.11	3000.0	1000.000	99.9	V	162.0	-19.2
1198.900	29.91	---	74.00	44.09	3000.0	1000.000	99.9	V	162.0	-19.2
1499.800	---	29.04	54.00	24.96	3000.0	1000.000	99.9	V	127.0	-16.7
1499.800	38.90	---	74.00	35.10	3000.0	1000.000	99.9	V	127.0	-16.7
1664.700	38.39	---	74.00	35.61	3000.0	1000.000	99.9	H	51.0	-15.9
1664.700	---	29.85	54.00	24.15	3000.0	1000.000	99.9	H	51.0	-15.9
2331.100	42.77	---	74.00	31.23	3000.0	1000.000	99.9	V	90.0	-13.3
2331.100	---	37.45	54.00	16.55	3000.0	1000.000	99.9	V	90.0	-13.3
2499.400	---	27.04	54.00	26.96	3000.0	1000.000	99.9	V	90.0	-12.5
2499.400	43.46	---	74.00	30.54	3000.0	1000.000	99.9	V	90.0	-12.5
17847.000	---	45.47	54.00	8.53	3000.0	1000.000	99.9	V	90.0	11.1
17847.000	58.87	---	74.00	15.13	3000.0	1000.000	99.9	V	90.0	11.1

DATA (Above 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Operating Conditions:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 11_MID



Final_Result

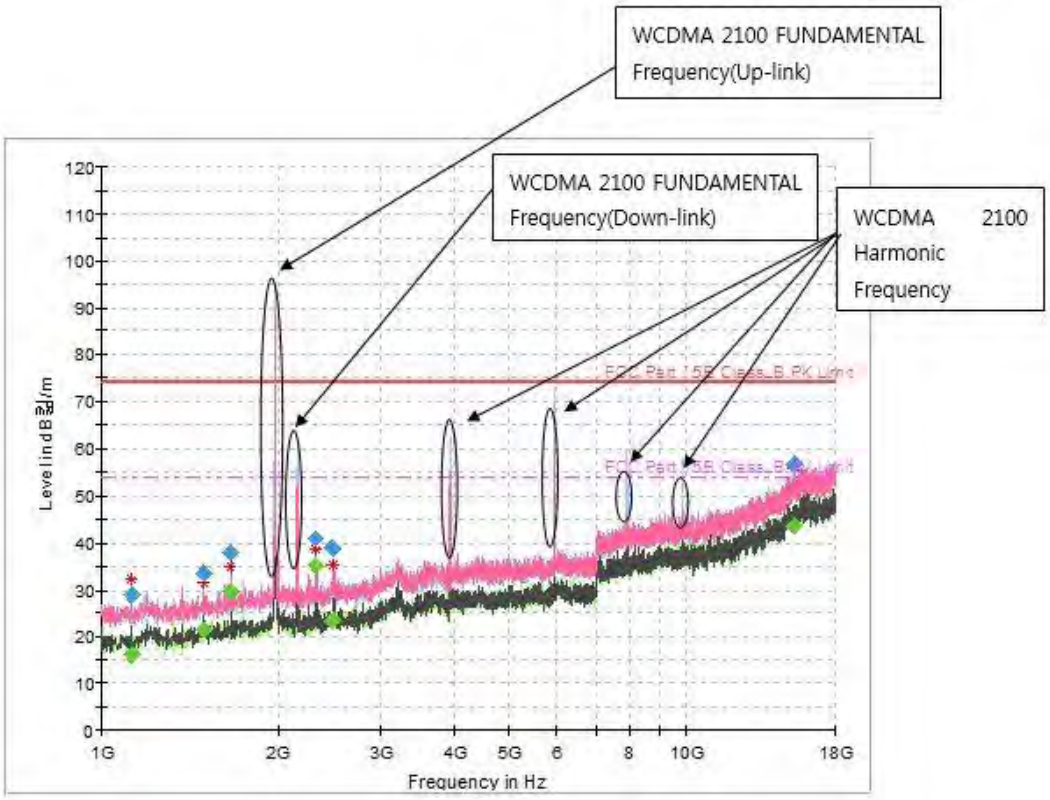
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	---	29.08	54.00	24.92	1000.0	1000.000	99.9	V	129.0	-16.7
1499.800	38.79	---	74.00	35.21	1000.0	1000.000	99.9	V	129.0	-16.7
1664.700	---	27.87	54.00	26.13	1000.0	1000.000	99.9	V	61.0	-15.9
1664.700	37.20	---	74.00	36.80	1000.0	1000.000	99.9	V	61.0	-15.9
2331.100	42.44	---	74.00	31.56	1000.0	1000.000	99.9	V	92.0	-13.3
2331.100	---	37.64	54.00	16.36	1000.0	1000.000	99.9	V	92.0	-13.3
2490.900	37.87	---	74.00	36.13	1000.0	1000.000	99.9	V	232.0	-12.5
2490.900	---	22.75	54.00	31.25	1000.0	1000.000	99.9	V	232.0	-12.5
15800.200	56.75	---	74.00	17.25	1000.0	1000.000	99.9	V	61.0	9.0
15800.200	---	43.90	54.00	10.10	1000.0	1000.000	99.9	V	61.0	9.0
17707.600	58.09	---	74.00	15.91	1000.0	1000.000	99.9	H	159.0	10.6
17707.600	---	45.43	54.00	8.57	1000.0	1000.000	99.9	H	159.0	10.6

DATA (Above 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_HIGH



Final_Result

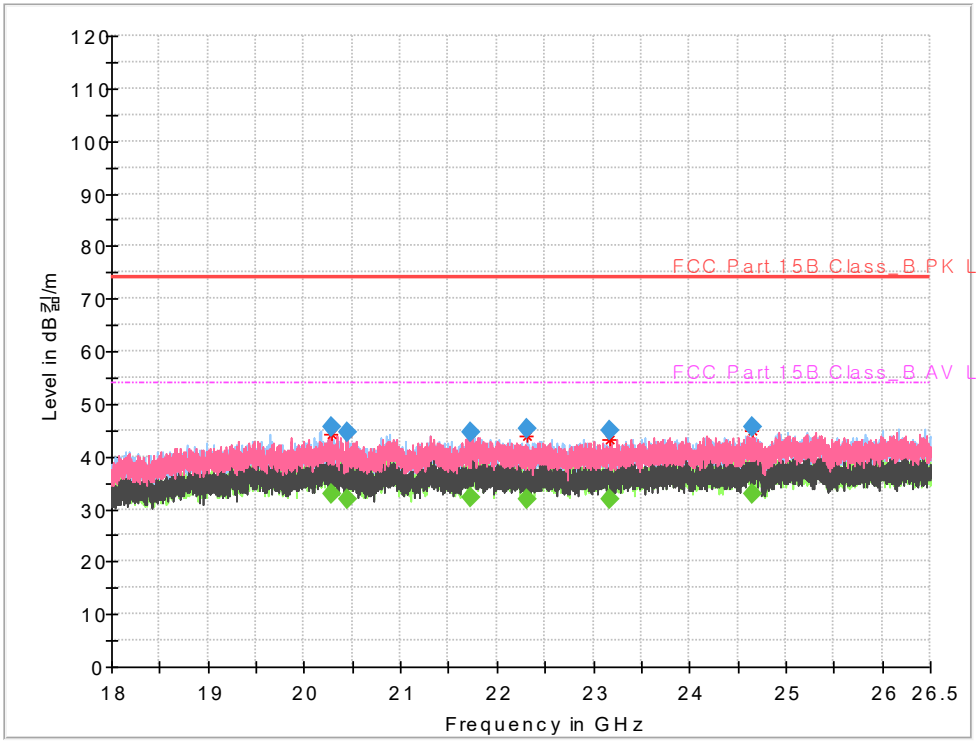
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	28.82	---	74.00	45.18	1000.0	1000.000	99.9	H	106.0	-19.5
1124.100	---	16.10	54.00	37.90	1000.0	1000.000	99.9	H	106.0	-19.5
1499.800	---	21.56	54.00	32.44	1000.0	1000.000	99.9	V	292.0	-16.7
1499.800	33.47	---	74.00	40.53	1000.0	1000.000	99.9	V	292.0	-16.7
1664.700	---	29.53	54.00	24.47	1000.0	1000.000	99.9	H	74.0	-15.9
1664.700	37.82	---	74.00	36.18	1000.0	1000.000	99.9	H	74.0	-15.9
2331.100	40.82	---	74.00	33.18	1000.0	1000.000	99.9	V	116.0	-13.3
2331.100	---	35.30	54.00	18.70	1000.0	1000.000	99.9	V	116.0	-13.3
2496.000	38.95	---	74.00	35.05	1000.0	1000.000	99.9	V	116.0	-12.5
2496.000	---	23.56	54.00	30.44	1000.0	1000.000	99.9	V	116.0	-12.5
15303.800	56.72	---	74.00	17.28	1000.0	1000.000	99.9	V	251.0	9.0
15303.800	---	43.52	54.00	10.48	1000.0	1000.000	99.9	V	251.0	9.0

DATA (Above 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 11_LOW



Final_Result

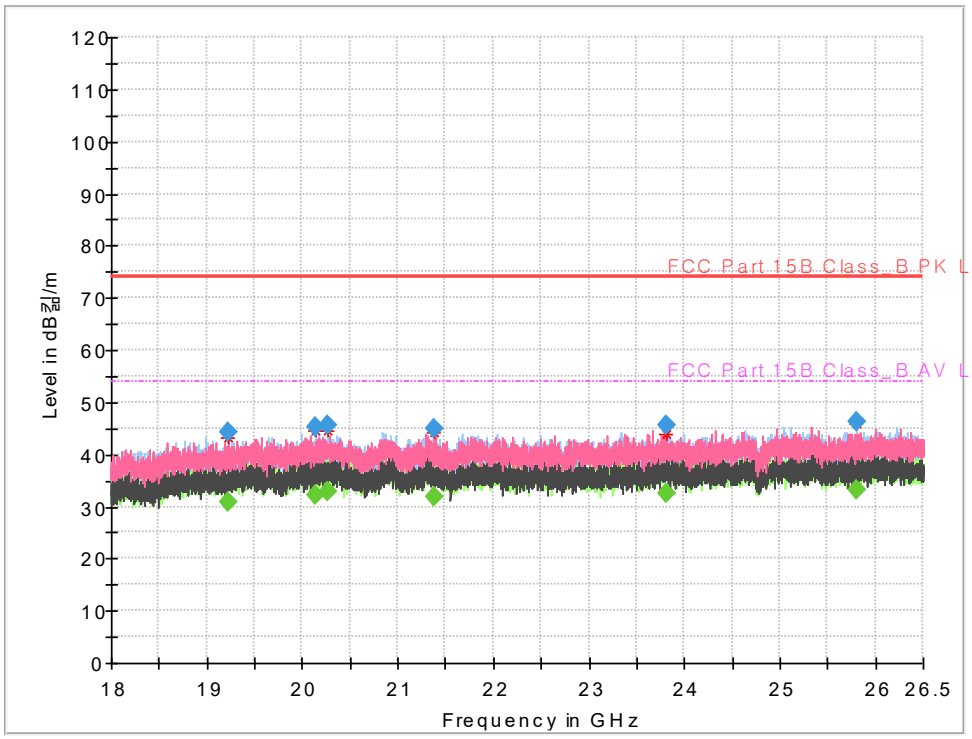
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20279.700	45.51	---	74.00	28.49	1000.0	1000.000	100.0	H	249.0	18.3
20279.700	---	32.83	54.00	21.17	1000.0	1000.000	100.0	H	249.0	18.3
20453.950	---	31.78	54.00	22.22	1000.0	1000.000	100.0	V	310.0	18.2
20453.950	44.73	---	74.00	29.27	1000.0	1000.000	100.0	V	310.0	18.2
21720.450	---	32.25	54.00	21.75	1000.0	1000.000	100.0	V	284.0	18.3
21720.450	44.56	---	74.00	29.44	1000.0	1000.000	100.0	V	284.0	18.3
22316.300	45.24	---	74.00	28.76	1000.0	1000.000	100.0	H	180.0	18.2
22316.300	---	31.74	54.00	22.26	1000.0	1000.000	100.0	H	180.0	18.2
23180.750	---	31.70	54.00	22.30	1000.0	1000.000	100.0	H	249.0	18.3
23180.750	44.78	---	74.00	29.22	1000.0	1000.000	100.0	H	249.0	18.3
24658.900	---	32.98	54.00	21.02	1000.0	1000.000	100.0	V	102.0	18.9
24658.900	45.61	---	74.00	28.39	1000.0	1000.000	100.0	V	102.0	18.9

DATA (Above 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 11_MID



Final_Result

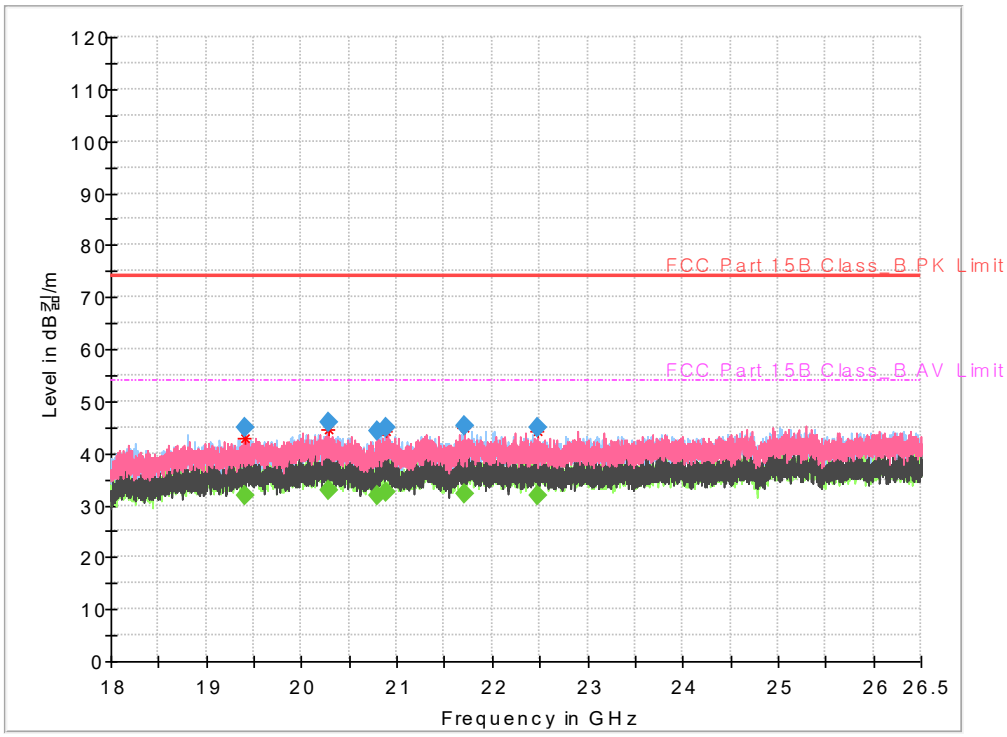
Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19222.300	---	31.00	54.00	23.00	1000.0	1000.000	100.0	V	161.0	17.4
19222.300	44.24	---	74.00	29.76	1000.0	1000.000	100.0	V	161.0	17.4
20130.950	---	32.26	54.00	21.74	1000.0	1000.000	100.0	H	327.0	17.9
20130.950	45.23	---	74.00	28.77	1000.0	1000.000	100.0	H	327.0	17.9
20267.800	---	32.79	54.00	21.21	1000.0	1000.000	100.0	H	164.0	18.2
20267.800	45.69	---	74.00	28.31	1000.0	1000.000	100.0	H	164.0	18.2
21384.700	---	31.88	54.00	22.12	1000.0	1000.000	100.0	V	135.0	18.4
21384.700	45.05	---	74.00	28.95	1000.0	1000.000	100.0	V	135.0	18.4
23813.150	45.74	---	74.00	28.26	1000.0	1000.000	100.0	H	303.0	18.5
23813.150	---	32.41	54.00	21.59	1000.0	1000.000	100.0	H	303.0	18.5
25804.700	46.15	---	74.00	27.85	1000.0	1000.000	100.0	H	277.0	19.1
25804.700	---	33.28	54.00	20.72	1000.0	1000.000	100.0	H	277.0	19.1

DATA (Above 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site:	ICR 3 m Chamber
Operator Name:	LEE S H
Comment:	ABOVE_MODE 11_HIGH



Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19416.100	44.91	---	74.00	29.09	1000.0	1000.000	100.0	V	145.0	17.6
19416.100	---	31.75	54.00	22.25	1000.0	1000.000	100.0	V	145.0	17.6
20276.300	45.78	---	74.00	28.22	1000.0	1000.000	100.0	V	102.0	18.3
20276.300	---	32.91	54.00	21.09	1000.0	1000.000	100.0	V	102.0	18.3
20792.250	---	31.71	54.00	22.29	1000.0	1000.000	100.0	V	197.0	18.2
20792.250	44.38	---	74.00	29.62	1000.0	1000.000	100.0	V	197.0	18.2
20892.550	---	32.62	54.00	21.38	1000.0	1000.000	100.0	V	57.0	18.3
20892.550	44.97	---	74.00	29.03	1000.0	1000.000	100.0	V	57.0	18.3
21706.000	---	32.30	54.00	21.70	1000.0	1000.000	100.0	V	242.0	18.3
21706.000	45.39	---	74.00	28.61	1000.0	1000.000	100.0	V	242.0	18.3
22485.450	---	31.89	54.00	22.11	1000.0	1000.000	100.0	V	31.0	18.2
22485.450	45.08	---	74.00	28.92	1000.0	1000.000	100.0	V	31.0	18.2

7.2 Conducted disturbance

Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power and Signal Line In / Output ports.

Test method	:	FCC Part 15.107, Class B
Test Date	:	2021. 08. 10
Temperature, Humidity	:	23.6 °C ~ 24.8 °C, 44.7 % R.H. ~ 45.8 % R.H.
Measurement Frequency range and RBW	:	150 kHz ~ 30 MHz / 9 kHz
Test mode	:	MODE 1
Result	:	Pass

A sample calculation:

- Corr (correction factor) = LISN Insertion loss + Cable loss
- Emission Level = meter reading + Corr
- Sample calculation;
- At Frequency: 12.111 MHzResult = Reading + Corr = 24.10 dB(μV) + 9.8 dB = 33.90 dB(μV)

(☐ Quasi-peak, ☒ Average)

- Measurement Data kept in ICR

Limits for conducted emissions from the AC mains ports of class A equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

Limits for conducted emissions from the AC mains ports of class B equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	66 ~ 56*	56 ~ 46*
0.5 ~ 5	56	46
5 ~ 30	60	50
* Decreases with the logarithm of the frequency		

Used equipments:

Used	Equipment	Model no.	Makers	Serial no.	Next Cal.
☒	EMI Test Receiver	ESR3	R&S	102119	2022. 04. 14
☒	LISN(main)	ENV216	R&S	102194	2022. 04. 15
☒	LISN(sub)	ENV216	R&S	102193	2022. 04. 15
☐	LISN	NNLK 8130	SCHWARZBECK	05184	2021. 08. 13
☐	HIGH POWER VOLTAGE PROBE	TK 9421	SCHWARZBECK	271	2021. 08. 14
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63101	2022. 02. 25

Test Software:

Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.02

Measurement Data:

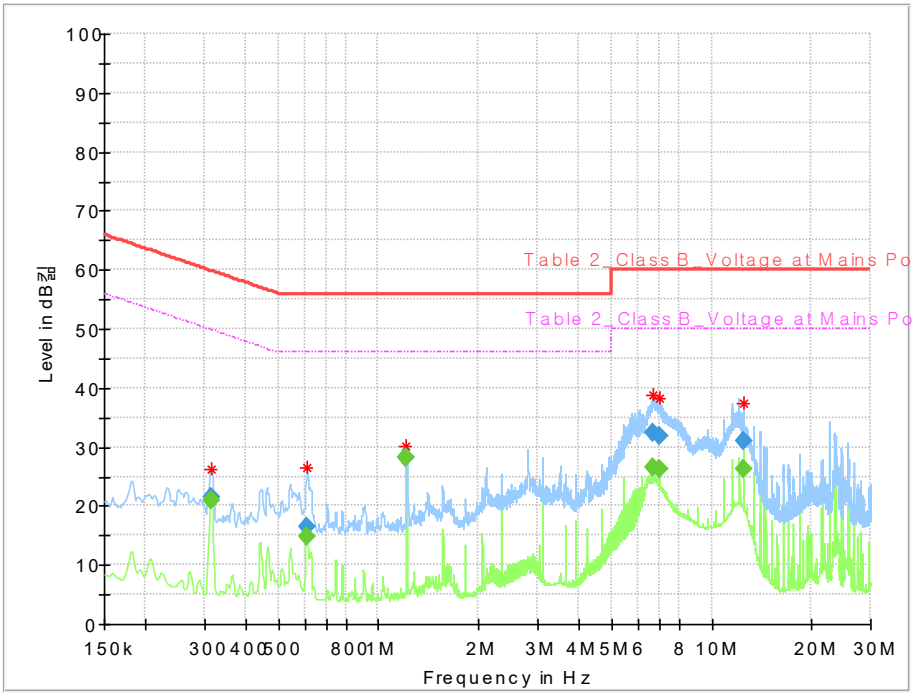
- Refer to the Next page.

DATA_POSITIVE

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site	ICR Shield Room
Operator Name:	LEE S H
Comment:	POSITIVE_MODE 1



Final_Result

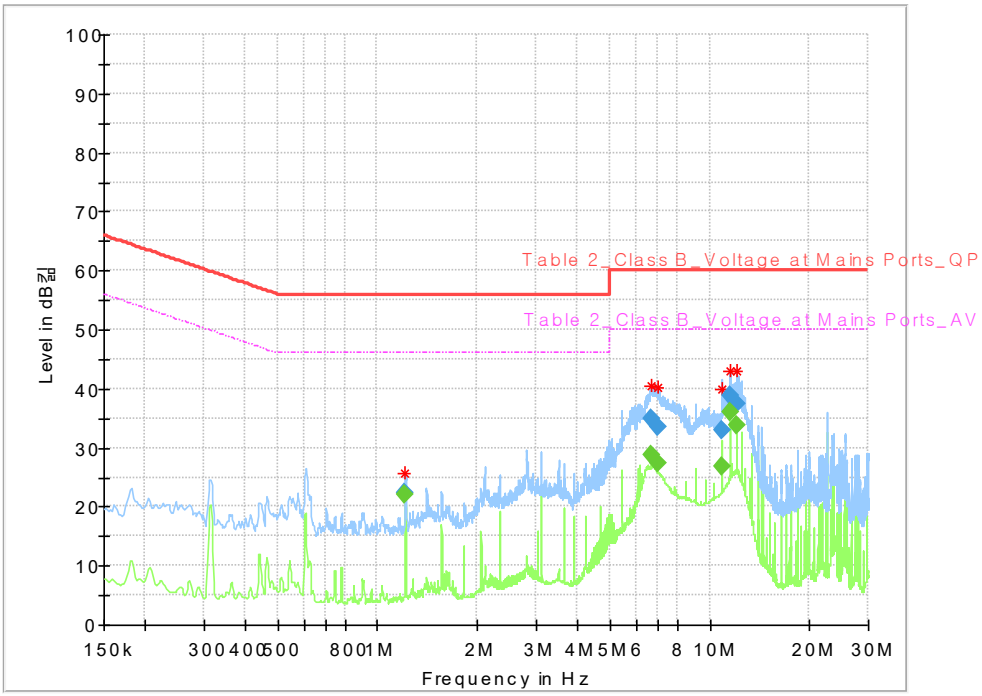
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.314	---	21.02	49.86	28.83	5000.0	9.000	P	ON	9.8
0.314	21.48	---	59.86	38.38	5000.0	9.000	P	ON	9.8
0.609	---	14.94	46.00	31.06	5000.0	9.000	P	ON	9.9
0.609	16.57	---	56.00	39.43	5000.0	9.000	P	ON	9.9
1.212	---	28.31	46.00	17.69	5000.0	9.000	P	ON	9.7
1.212	28.31	---	56.00	27.69	5000.0	9.000	P	ON	9.7
6.666	---	26.66	50.00	23.34	5000.0	9.000	P	ON	9.8
6.666	32.36	---	60.00	27.64	5000.0	9.000	P	ON	9.8
7.010	---	26.21	50.00	23.79	5000.0	9.000	P	ON	9.8
7.010	31.77	---	60.00	28.23	5000.0	9.000	P	ON	9.8
12.462	---	26.15	50.00	23.85	5000.0	9.000	P	ON	9.8
12.462	30.90	---	60.00	29.10	5000.0	9.000	P	ON	9.8

DATA_NEGATIVE

Test Report

Common Information

Test Description:	TOLOGG-3.3-GL
Test Site	ICR Shield Room
Operator Name:	LEE S H
Comment:	NEGATIVE_MODE 1



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
1.212	---	22.08	46.00	23.92	5000.0	9.000	N	ON	9.7
1.212	22.31	---	56.00	33.69	5000.0	9.000	N	ON	9.7
6.702	---	28.64	50.00	21.36	5000.0	9.000	N	ON	9.8
6.702	34.94	---	60.00	25.06	5000.0	9.000	N	ON	9.8
7.010	---	27.43	50.00	22.57	5000.0	9.000	N	ON	9.8
7.010	33.50	---	60.00	26.50	5000.0	9.000	N	ON	9.8
10.912	---	26.95	50.00	23.05	5000.0	9.000	N	ON	9.9
10.912	32.91	---	60.00	27.09	5000.0	9.000	N	ON	9.9
11.506	---	35.94	50.00	14.06	5000.0	9.000	N	ON	9.9
11.506	38.85	---	60.00	21.15	5000.0	9.000	N	ON	9.9
12.111	---	33.90	50.00	16.10	5000.0	9.000	N	ON	9.8
12.111	37.36	---	60.00	22.64	5000.0	9.000	N	ON	9.8

- END -