

FCC CERTIFICATION REPORT

Test Report No. : MH/2020/10023

Applicant : Sharp Corporation, Mobile Communication B.U.

Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima,
739-0192, Japan

Manufacturer : Sharp Corporation

Address : 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Equipment Under Test (EUT) :

Product Name : Smart phone

Standards : FCC Part 15, Subpart B, Class B

FCC Designation Numbers : 916890 / TW1087

Date of Sample Receipt : Jan. 06, 2020

Date of Test : Jan. 10 ~ 16, 2020

Date of Issue : Jan. 30, 2020

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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Approved By



Date

Jan. 30, 2020

Eddy Cheng (Asst. Supervisor)

Testing Laboratory
0513

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Revision History

Revision	Description	Issue Date	Remark
00	Original.	Jan. 30, 2020	MH/2020/10023

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Manufacturer : Sharp Corporation
Address of Manufacturer : 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-
8522, Japan

1.2 General Description of EUT

Product Name : Smart phone

1.3 Details of EUT

Power Supply : AC 100~240V, 50/60Hz
Highest operate description : 5850 MHz
Battery : 3.85V, 3730mAh, 14.4Wh
Worst case : CE worst case : Config 2
Below RE worst case : Config 4
Above RE worst case : Config 2

FCC ID : APYHRO00282	UFS memory	DDR Memory	PCB(MAIN)	PCB(ANT)	(Select which one is worst case)
1st Source	Vendor A	Vendor A	Vendor A	Vendor A	V
2nd Source	Vendor B	Vendor B	Vendor B	Vendor B	Worst case

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Accessories List: AC Charger : Salom/XN-2QC25 Data Cable : Luxshare-ICT/L6KU2007-CS-H PHF : Ambibio / AB-HI02JS				
	Config 1	Config 2	Config 3	Config 4
Applicable standard	FCC 15B			
Accessories	EUT + AC Adaptor +USB Cable +PHF	EUT +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF	EUT + AC Adaptor +USB Cable +PHF
Main function	Speech	Data Link	Camera	RX Receive
Additional function	BT+WLAN2.4G/5G+GNSS+NFC			
Description				
radiated emission	GSM 850, 1900 WCDMA BII, BIV, BV LTE B02, 04, 05, 07, 12, 13, 17, 38, 41	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	GSM 850 WCDMA BV LTE B05
conducted emission (DC Power)	NA	NA	NA	NA
conducted emission (AC Power)	GSM 850, 1900 WCDMA BII, BIV, BV LTE B02, 04, 05, 07, 12, 13, 17, 38, 41	Data R/W	MP3/ ;REC mode (Front/Back) ;play REC	GSM 850 WCDMA BV LTE B05

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1.4 Operation Procedure

Config 1

1. Let EUT install with SIM Card & Micro SD Card & Earphone, connect to Adapter with USB Cable and turn it on..
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Set up the base station and set the link/idle according to Config.
7. Start testing.

Config 2

1. Let EUT install with SIM Card & Micro SD Card & Earphone, connect to NB with USB Cable and turn it on.
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. NB performs data read/write with EUT according to Config.
7. Start testing.

Config 3

1. Let EUT install with SIM Card & Micro SD Card & Earphone, connect to Adapter with USB Cable and turn it on..
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Perform Camera (Front/Back) Record / Play REC / MP3 function according to Config.
7. Start testing.

Config 4

1. Let EUT install with SIM Card & Micro SD Card & Earphone, connect to Adapter with USB Cable and turn it on..
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Set up the base station and set the Rx Receive according to Config.
7. Start testing.

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
SIM Card	R&S	CMW-Z05	8952530076180138474
Micro SD	Transcend	Micro SDHC(Class 10)	TS32GUSDU1
BT Speaker	Creative	MF8090	YFMF8090245R00855Y
Radio Communication Analyzer	R&S	CMU200	102189
Radio Communication Analyzer	R&S	CMW500	1201.002K50-152303-Zr
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]
GPS Signal Generator	Spectracom	GSG53 GNSS4	200218
Notebook(Win10)	DELL	P56F	59WSJ72
Mouse	Logitech	M-U0026	1738HS05FGU8
Adapter	Salom	XN-2QC25	N/A
Earphone	Ambibio	AB-HI02JS	N/A

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
USB cable	N/A	1m	Shielding
USB cable	N/A	1.8m	Shielding
Earphone cable	N/A	1.15m	Non-shielding

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A	N/A	N/A	N/A

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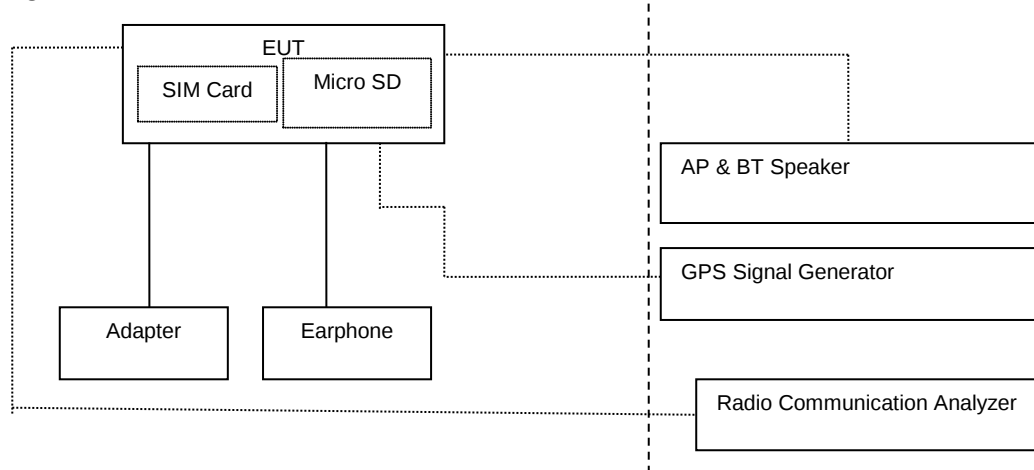
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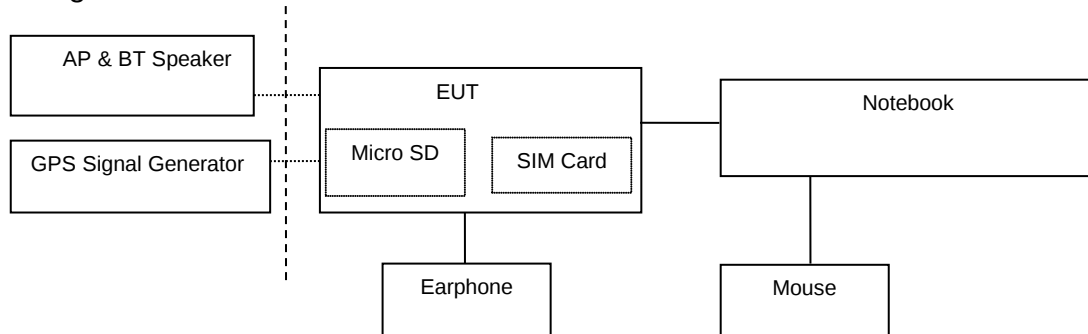
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1.8 Test Set-Up Configuration

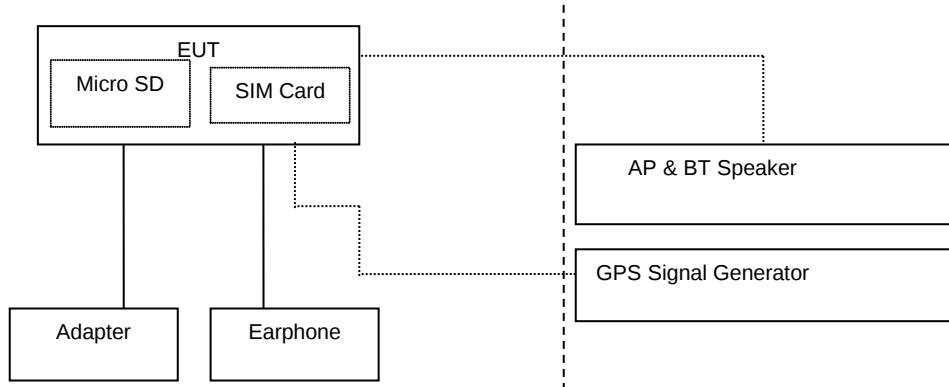
Config 1 & 4



Config 2



Config 3



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/ CISPR 22	Applicable
Deviation from Standard	No deviation

1.11 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.12 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.5140	-19.33 (QP)
			Neutral	0.3260	-8.57 (AVG)
	Radiated Emission	PASS	Hor.	773.0200	-10.21 (QP)

1.13 Reporting Statements of Conformity

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement
used in the device or on which the range (MHz)
device operates or tunes (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted Emission HWAYA Conducted Room No.A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2019/7/2	2020/7/1
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2019/8/12	2020/8/11
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2019/8/12	2020/8/11
LISN	Schwarzbeck	NSLK 8127	8127-648	2019/7/12	2020/7/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	2019/9/16	2020/9/15
Communication Tester	R&S	CMU 200	119988	2019/2/22	2020/2/21
Communication Tester	R&S	CMW 500	152303	2019/2/22	2020/2/21
Communication Tester	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2-3	N.C.R.	N.C.R.

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 Measurement Uncertainty of Conducted Emission
 Expanded uncertainty U_{lab}(K=2) of conducted emission is 2.25 dB
 Theory values uncertainty U_{cispr} 16-4-2 :2011+A1_2014 (K=2) of AC mains conducted Emission is 3.44dB

2.4.2 Operating Environment

Temperature : 19 degree C

Humidity : 55 %RH

Atmospheric Pressure : 990 hpa

2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter Insertion Loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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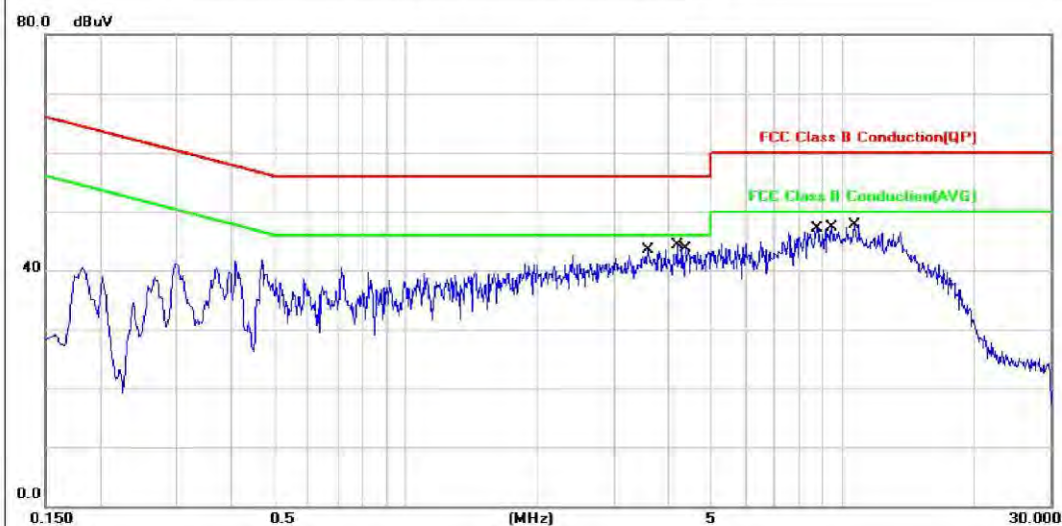


2.4.4 Measurement Data:

Config_1_L

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 12:22:00
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 19 °C
Mode: Config_1	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: LTE B12		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		3.5900	36.92	0.30	37.22	56.00	-18.78	QP	
2		3.5900	27.59	0.30	27.89	46.00	-18.11	AVG	
3		4.1900	36.98	0.32	37.30	56.00	-18.70	QP	
4		4.1900	27.50	0.32	27.82	46.00	-18.18	AVG	
5		4.3660	38.01	0.32	38.33	56.00	-17.67	QP	
6	*	4.3660	28.80	0.32	29.12	46.00	-16.88	AVG	
7		8.7300	38.93	0.47	39.40	60.00	-20.60	QP	
8		8.7300	28.97	0.47	29.44	50.00	-20.56	AVG	
9		9.4540	38.64	0.49	39.13	60.00	-20.87	QP	
10		9.4540	29.01	0.49	29.50	50.00	-20.50	AVG	
11		10.6220	39.01	0.54	39.55	60.00	-20.45	QP	
12		10.6220	28.90	0.54	29.44	50.00	-20.56	AVG	

*:Maximum data x:Over limit !:over margin

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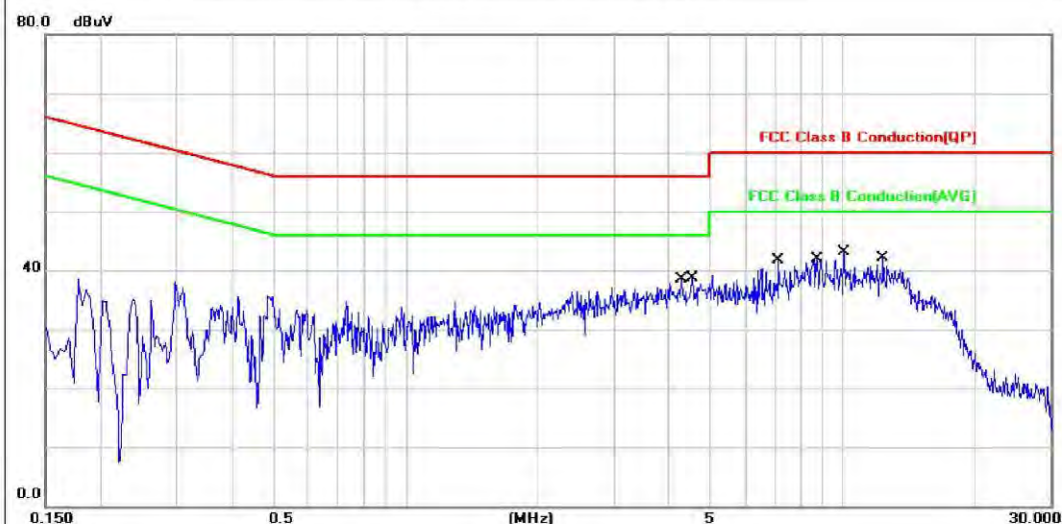
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Config_1_N

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 12:27:37
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 19 °C
Mode: Config_1	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: LTE B12		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		4.2900	32.08	0.28	32.36	56.00	-23.64	QP	
2		4.2900	22.70	0.28	22.98	46.00	-23.02	AVG	
3		4.5460	32.17	0.28	32.45	56.00	-23.55	QP	
4	*	4.5460	23.31	0.28	23.59	46.00	-22.41	AVG	
5		7.1460	32.86	0.33	33.19	60.00	-26.81	QP	
6		7.1460	23.97	0.33	24.30	50.00	-25.70	AVG	
7		8.7740	33.09	0.36	33.45	60.00	-26.55	QP	
8		8.7740	25.11	0.36	25.47	50.00	-24.53	AVG	
9		10.1180	34.28	0.38	34.66	60.00	-25.34	QP	
10		10.1180	25.05	0.38	25.43	50.00	-24.57	AVG	
11		12.4420	33.19	0.42	33.61	60.00	-26.39	QP	
12		12.4420	23.89	0.42	24.31	50.00	-25.69	AVG	

*:Maximum data x:Over limit !:over margin

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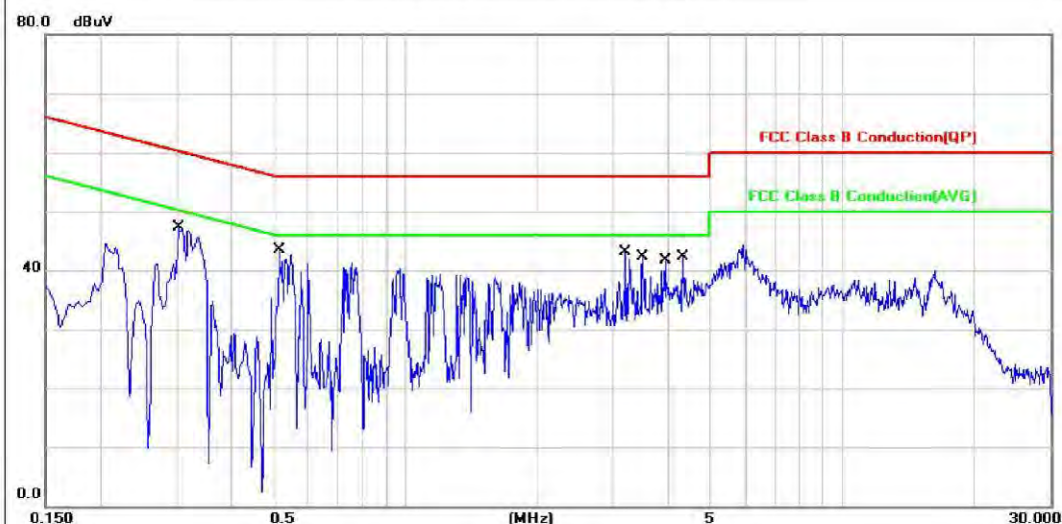
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Config_2_L

Site: : Conduction Room A	Date: 2020/1/13	Time: 下午 07:37:08
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 19 °C
Mode: Config_2	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: DATA READ		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.3020	39.27	0.13	39.40	60.19	-20.79	QP	
2		0.3020	27.91	0.13	28.04	50.19	-22.15	AVG	
3	*	0.5140	36.54	0.13	36.67	56.00	-19.33	QP	
4		0.5140	22.00	0.13	22.13	46.00	-23.87	AVG	
5		3.1900	29.24	0.29	29.53	56.00	-26.47	QP	
6		3.1900	17.79	0.29	18.08	46.00	-27.92	AVG	
7		3.5020	33.96	0.30	34.26	56.00	-21.74	QP	
8		3.5020	19.60	0.30	19.90	46.00	-26.10	AVG	
9		3.9420	32.26	0.31	32.57	56.00	-23.43	QP	
10		3.9420	21.21	0.31	21.52	46.00	-24.48	AVG	
11		4.3260	31.39	0.32	31.71	56.00	-24.29	QP	
12		4.3260	20.83	0.32	21.15	46.00	-24.85	AVG	

*:Maximum data x:Over limit !:over margin

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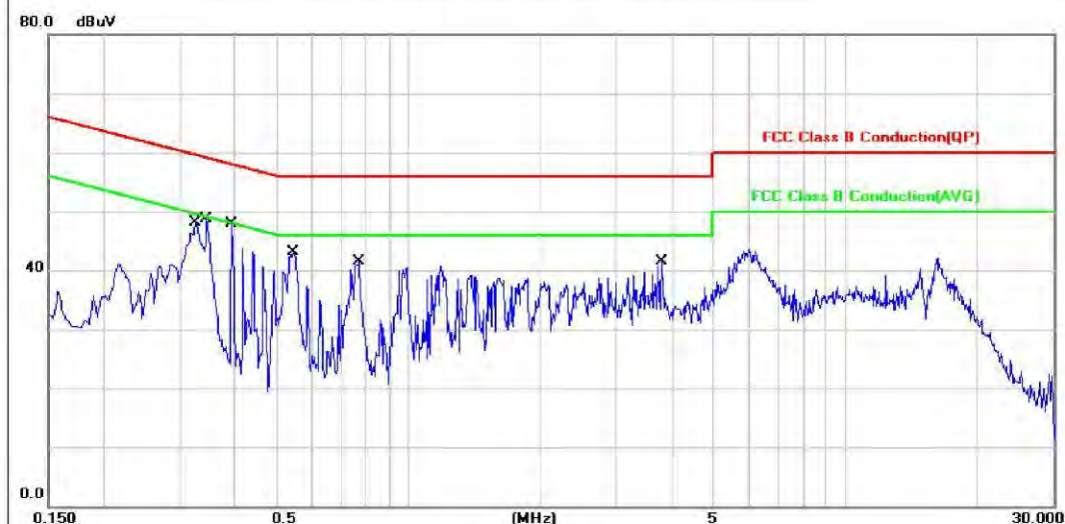
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Config_2_N

Site: : Conduction Room A	Date: 2020/1/13	Time: 下午 07:41:17
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 19 °C
Mode: Config_2	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: DATA READ		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.3260	46.69	0.11	46.80	59.55	-12.75	QP	
2	*	0.3260	40.87	0.11	40.98	49.55	-8.57	AVG	
3		0.3460	46.74	0.11	46.85	59.06	-12.21	QP	
4		0.3460	35.25	0.11	35.36	49.06	-13.70	AVG	
5		0.3940	43.09	0.11	43.20	57.98	-14.78	QP	
6		0.3940	28.11	0.11	28.22	47.98	-19.76	AVG	
7		0.5460	41.19	0.12	41.31	56.00	-14.69	QP	
8		0.5460	33.95	0.12	34.07	46.00	-11.93	AVG	
9		0.7740	37.88	0.17	38.05	56.00	-17.95	QP	
10		0.7740	28.38	0.17	28.55	46.00	-17.45	AVG	
11		3.8180	28.22	0.27	28.49	56.00	-27.51	QP	
12		3.8180	17.32	0.27	17.59	46.00	-28.41	AVG	

*:Maximum data x:Over limit f:over margin

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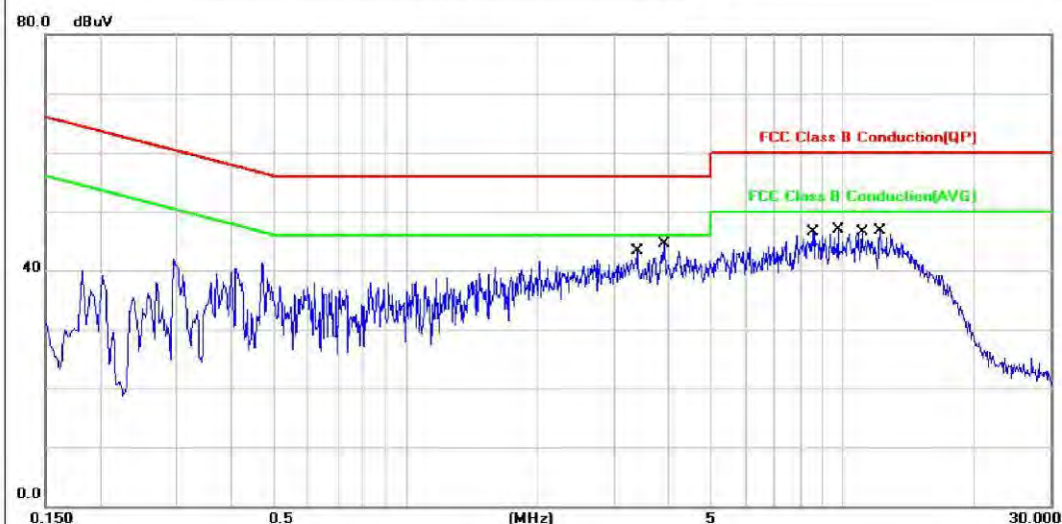
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Config_3_L

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 01:27:29
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 19 °C
Mode: Config_3	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		3.3980	35.23	0.29	35.52	56.00	-20.48	QP	
2		3.3980	26.80	0.29	27.09	46.00	-18.91	AVG	
3		3.9220	36.62	0.31	36.93	56.00	-19.07	QP	
4	*	3.9220	27.02	0.31	27.33	46.00	-18.67	AVG	
5		8.5780	38.26	0.46	38.72	60.00	-21.28	QP	
6		8.5780	28.62	0.46	29.08	50.00	-20.92	AVG	
7		9.7900	38.81	0.50	39.31	60.00	-20.69	QP	
8		9.7900	28.79	0.50	29.29	50.00	-20.71	AVG	
9		11.1180	38.46	0.55	39.01	60.00	-20.99	QP	
10		11.1180	28.65	0.55	29.20	50.00	-20.80	AVG	
11		12.2060	38.22	0.59	38.81	60.00	-21.19	QP	
12		12.2060	28.11	0.59	28.70	50.00	-21.30	AVG	

*:Maximum data x:Over limit !:over margin

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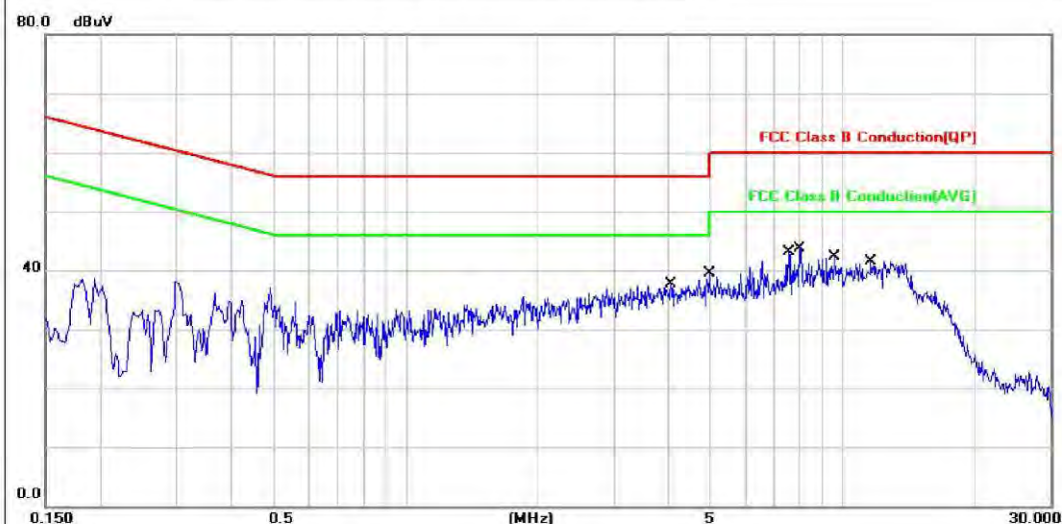
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Config_3_N

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 01:31:41
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 19 °C
Mode: Config_3	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		4.0500	31.36	0.27	31.63	56.00	-24.37	QP	
2		4.0500	22.80	0.27	23.07	46.00	-22.93	AVG	
3		4.9580	33.45	0.29	33.74	56.00	-22.26	QP	
4	*	4.9580	23.46	0.29	23.75	46.00	-22.25	AVG	
5		7.5500	31.76	0.34	32.10	60.00	-27.90	QP	
6		7.5500	23.94	0.34	24.28	50.00	-25.72	AVG	
7		7.9780	32.36	0.34	32.70	60.00	-27.30	QP	
8		7.9780	24.68	0.34	25.02	50.00	-24.98	AVG	
9		9.6100	33.91	0.37	34.28	60.00	-25.72	QP	
10		9.6100	25.33	0.37	25.70	50.00	-24.30	AVG	
11		11.6780	33.28	0.42	33.70	60.00	-26.30	QP	
12		11.6780	24.40	0.42	24.82	50.00	-25.18	AVG	

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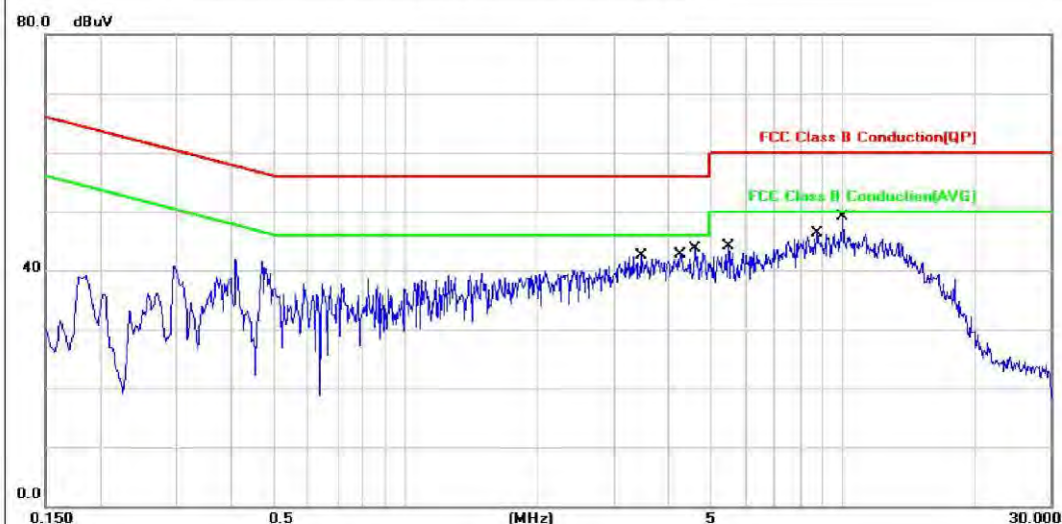
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Config_4_L

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 12:47:39
Limit: FCC Class B Conduction(QP)	Phase: L1	Temperature: 19 °C
Mode: Config_4	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: WCDMA_B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		3.4620	35.56	0.30	35.86	56.00	-20.14	QP	
2		3.4620	27.03	0.30	27.33	46.00	-18.67	AVG	
3		4.2660	35.69	0.32	36.01	56.00	-19.99	QP	
4		4.2660	26.88	0.32	27.20	46.00	-18.80	AVG	
5		4.5980	35.78	0.33	36.11	56.00	-19.89	QP	
6	*	4.5980	27.01	0.33	27.34	46.00	-18.66	AVG	
7		5.4780	36.15	0.36	36.51	60.00	-23.49	QP	
8		5.4780	26.92	0.36	27.28	50.00	-22.72	AVG	
9		8.7300	37.88	0.47	38.35	60.00	-21.65	QP	
10		8.7300	28.37	0.47	28.84	50.00	-21.16	AVG	
11		10.0620	38.41	0.51	38.92	60.00	-21.08	QP	
12		10.0620	28.55	0.51	29.06	50.00	-20.94	AVG	

*:Maximum data x:Over limit f:over margin

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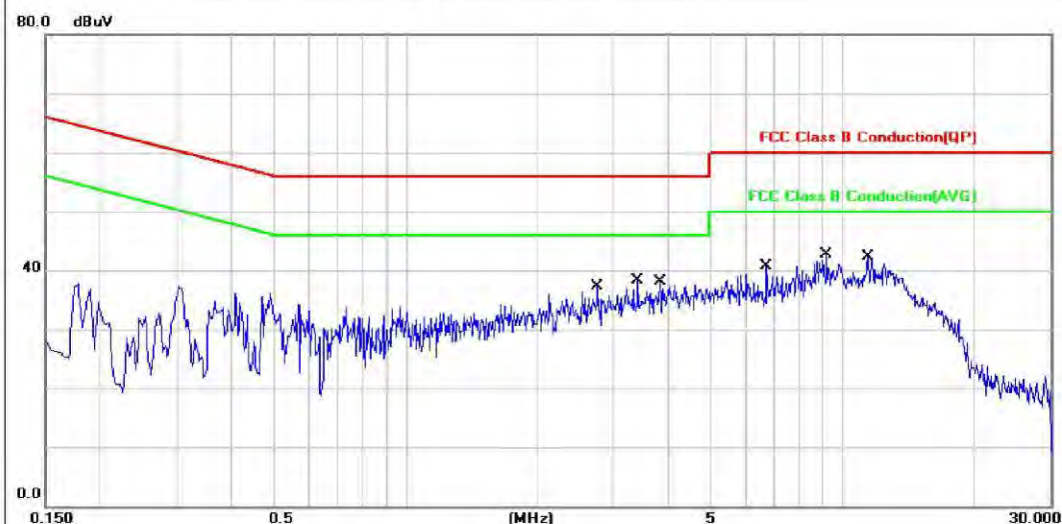
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Config_4_N

Site: : Conduction Room A	Date: 2020/1/14	Time: 上午 12:52:13
Limit: FCC Class B Conduction(QP)	Phase: N	Temperature: 19 °C
Mode: Config_4	Power: AC120V/60Hz	Humidity: 55 %RH
Report: MH-2020-10023		Air Pressure: 990 hpa
Tester: David Kang		
Note: WCDMA_B5		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		2.7620	30.59	0.25	30.84	56.00	-25.16	QP	
2		2.7620	21.65	0.25	21.90	46.00	-24.10	AVG	
3		3.4060	31.40	0.26	31.66	56.00	-24.34	QP	
4		3.4060	22.16	0.26	22.42	46.00	-23.58	AVG	
5		3.8300	31.13	0.27	31.40	56.00	-24.60	QP	
6	*	3.8300	22.48	0.27	22.75	46.00	-23.25	AVG	
7		6.7020	31.77	0.32	32.09	60.00	-27.91	QP	
8		6.7020	23.19	0.32	23.51	50.00	-26.49	AVG	
9		9.2500	32.89	0.37	33.26	60.00	-26.74	QP	
10		9.2500	25.01	0.37	25.38	50.00	-24.62	AVG	
11		11.4660	32.53	0.40	32.93	60.00	-27.07	QP	
12		11.4660	24.33	0.40	24.73	50.00	-25.27	AVG	

*:Maximum data x:Over limit f:over margin

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 10m_EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	2019/12/11	2020/12/10
EMI Test Receiver	R&S	ESCI 3	101343	2019/2/1	2020/1/31
Broadband Antenna	SCHWAZBECK	VULB9168	9168-628	2019/9/9	2020/9/8
Broadband Antenna	SCHWAZBECK	VULB9168	9168-629	2019/9/9	2020/9/8
Pre Amplifier	EMC Instruments Corp.	EMC330	980178	2019/3/31	2020/3/30
Pre Amplifier	EMC Instruments Corp.	EMC330	980179	2019/3/31	2020/3/30
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150917	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150919	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150820	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150918	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150821	2019/9/18	2020/9/17
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM	150822	2019/9/18	2020/9/17
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2019/2/22	2020/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2019/2/22	2020/2/21
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	10M Chamber	10M SAC	2019/12/31	2020/12/30
Test S/W	Farad	EZ-EMC	Ver. SGS 10m-03A2-3	N.C.R.	N.C.R.

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 No.2, Keji 1st Rd., Guishan District, Taoyuan City 33383, Taiwan (R.O.C.)
 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

SGS Radiated Above 1GHz HWAYA 966B EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2019/5/22	2020/5/21
EMI Test Receiver	R&S	ESR 7	101507	2019/9/4	2020/9/3
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2019/11/4	2020/11/3
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2019/12/29	2020/12/28
Pre Amplifier	R&S	SCU-18	10203	2019/3/26	2020/3/25
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104	MY 5817/4	2019/3/26	2020/3/25
Pre Amplifier	EMC Instruments	EMC184045B	980135	2019/10/27	2020/10/26
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140923	2019/9/30	2020/9/29
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140925	2019/9/30	2020/9/29
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2019/9/30	2020/9/29
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2651/2	2019/6/5	2020/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2019/6/5	2020/6/4
Universal Digital Radio Communication Tester	R&S	CMU 200	119988	2019/2/22	2020/2/21
Wideband Radio Communication Tester	R&S	CMW 500	152303	2019/2/22	2020/2/21
Radio Communication Analyzer	Anritsu	MT8820C	6201465315	N.C.R.	N.C.R.
Controller	MF	MF7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber B	SAC-B	2019/10/8	2020/10/7
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2-3	N.C.R.	N.C.R.

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 No.2, Keji 1st Rd., Guishan District, Taoyuan City 33383, Taiwan (R.O.C.)
 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty (k=2) of radiated emission measurement is 5.06 dB. (1-6GHz)
 Expanded uncertainty (k=2) of radiated emission measurement is 5.15 dB. (6-18GHz)
 Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)
 Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(18-26GHz)
 Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

2.5.2 Operating Environment

Temperature : 21 degree C

Humidity : 55 %RH

Atmospheric Pressure : 990 hpa

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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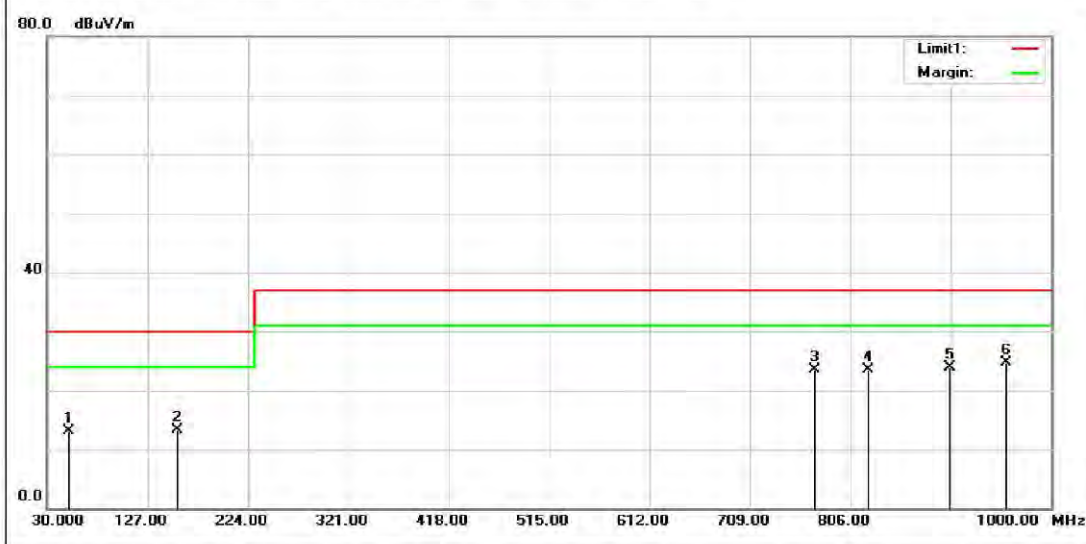
2.5.4 Measurement Data

Below 1GHz

Config_1_H

Site: SGS 10m Chamber	Date: 2020/1/16	Time: 上午 01:59:53
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 55 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: WCDMA BIV		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		51.3400	24.25	-11.12	13.13	30.00	-16.87			QP	
2		156.1000	24.32	-11.00	13.32	30.00	-16.68			QP	
3		772.0500	23.12	0.33	23.45	37.00	-13.55			QP	
4		823.4600	23.31	0.26	23.57	37.00	-13.43			QP	
5		902.0300	23.12	0.77	23.89	37.00	-13.11			QP	
6	*	956.3500	23.17	1.53	24.70	37.00	-12.30	135	360	QP	

*:Maximum data x:Over limit !:over margin

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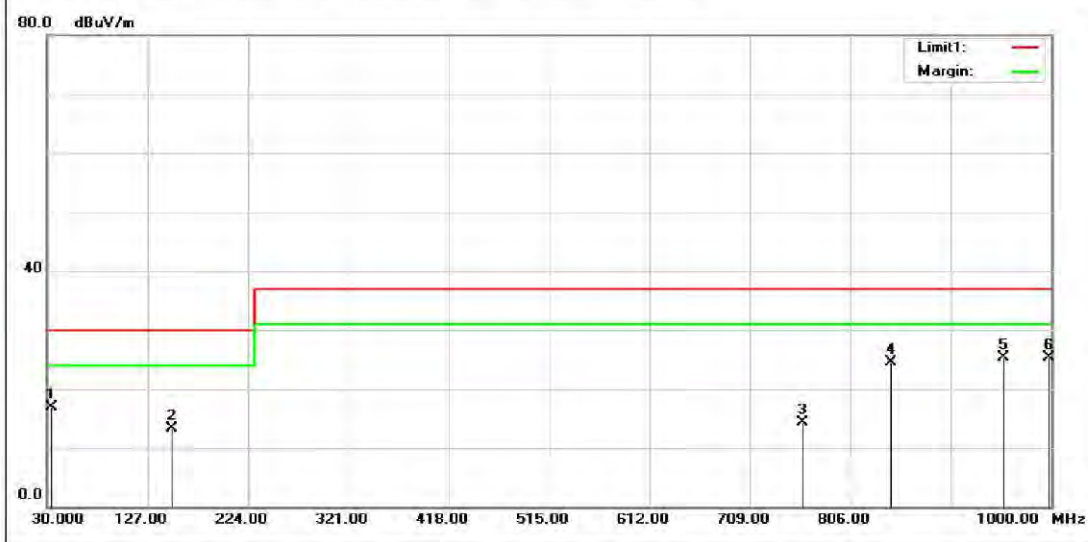
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Config_1_V

Site: SGS 10m Chamber	Date: 2020/1/16	Time: 上午 01:59:52
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 21 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 55 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: WCDMA BIV		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		33.8800	28.84	-11.93	16.91	30.00	-13.09			QP	
2		151.2500	24.21	-10.86	13.35	30.00	-16.65			QP	
3		760.4100	12.99	1.29	14.28	37.00	-22.72			QP	
4		845.7700	22.91	1.68	24.59	37.00	-12.41			QP	
5	*	953.4400	22.85	2.54	25.39	37.00	-11.61	110	360	QP	
6		998.0600	22.57	2.66	25.23	37.00	-11.77			QP	

*:Maximum data x:Over limit l:over margin

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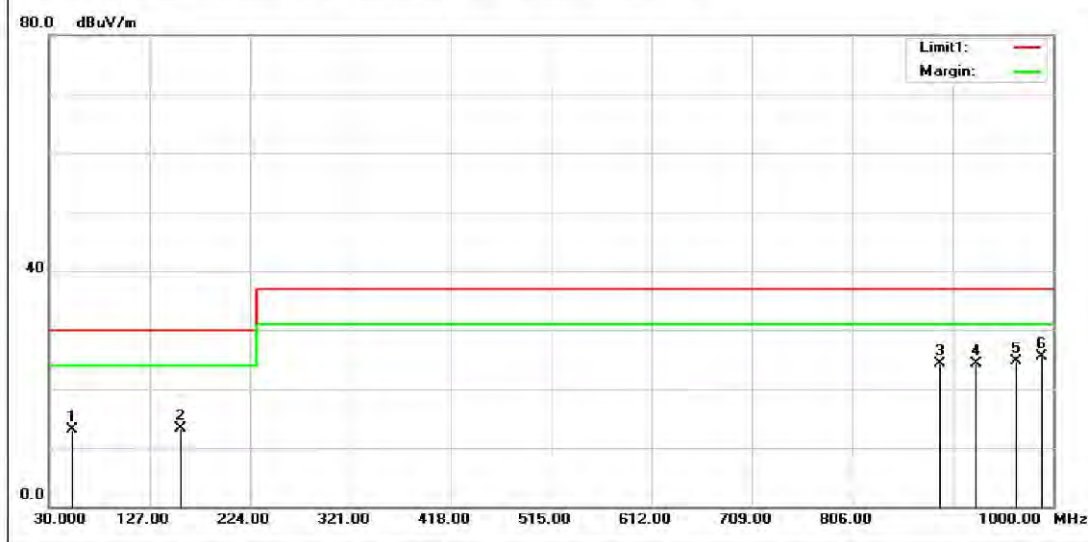
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Config_2_H

Site: SGS 10m Chamber	Date: 2020/1/14	Time: 上午 04:15:46
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 20 °C
Mode: Config 2	Power: From System	Humidity: 63 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Read (SD Card)		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Kei 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		52.3100	24.32	-11.18	13.14	30.00	-16.86			QP	
2		157.0700	24.29	-10.96	13.33	30.00	-16.67			QP	
3		890.3900	23.76	0.60	24.36	37.00	-12.64			QP	
4		925.3100	23.14	1.16	24.30	37.00	-12.70			QP	
5		984.1100	23.19	1.52	24.71	37.00	-12.29			QP	
6	*	988.3600	23.75	1.67	25.42	37.00	-11.58	136	308	QP	

*:Maximum data x:Over limit l:over margin

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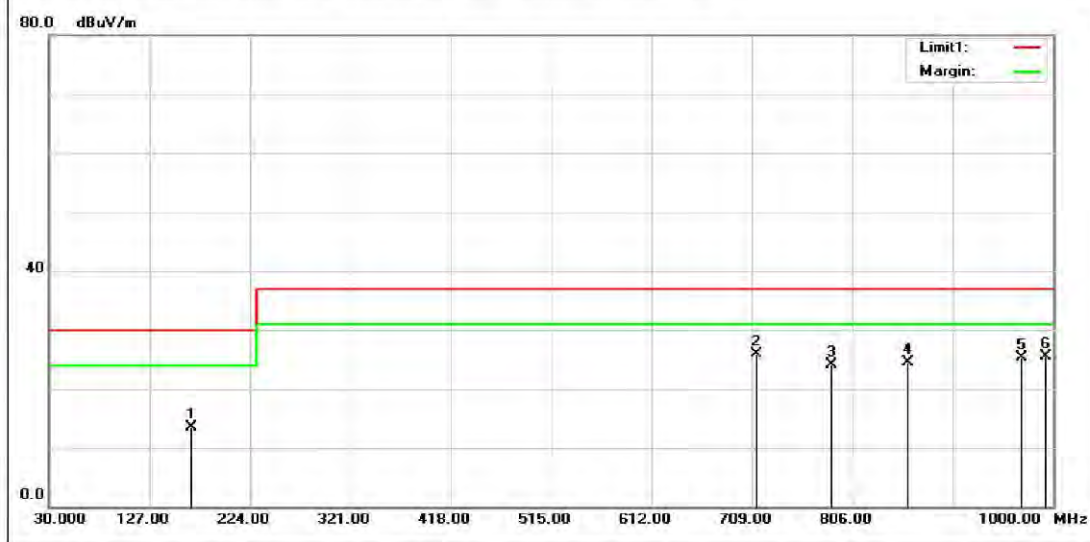
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Config_2_V

Site: SGS 10m Chamber	Date: 2020/1/14	Time: 上午 04:15:44
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 20 °C
Mode: Config 2	Power: From System	Humidity: 63 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: Data Read (SD Card)		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		167.7400	24.27	-10.72	13.55	30.00	-16.45			QP	
2	*	712.8800	25.97	-0.14	25.83	37.00	-11.17	220	360	QP	
3		785.6300	22.89	1.31	24.20	37.00	-12.80			QP	
4		859.3500	22.89	1.58	24.47	37.00	-12.53			QP	
5		969.9300	22.77	2.50	25.27	37.00	-11.73			QP	
6		992.2400	22.88	2.60	25.48	37.00	-11.52			QP	

*:Maximum data x:Over limit !:over margin

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Config_3_H

Site: SGS 10m Chamber	Date: 2020/1/11	Time: 上午 01:28:49
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 20 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 68 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: REC mode (Front)		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		49.4000	24.00	-11.12	12.88	30.00	-17.12			QP	
2		158.0400	24.22	-10.99	13.23	30.00	-16.77			QP	
3		656.6200	23.26	-2.20	21.06	37.00	-15.94			QP	
4		788.5400	23.28	0.17	23.45	37.00	-13.55			QP	
5		903.0000	23.15	0.74	23.89	37.00	-13.11			QP	
6	*	968.9600	23.25	1.58	24.83	37.00	-12.17	136	1	QP	

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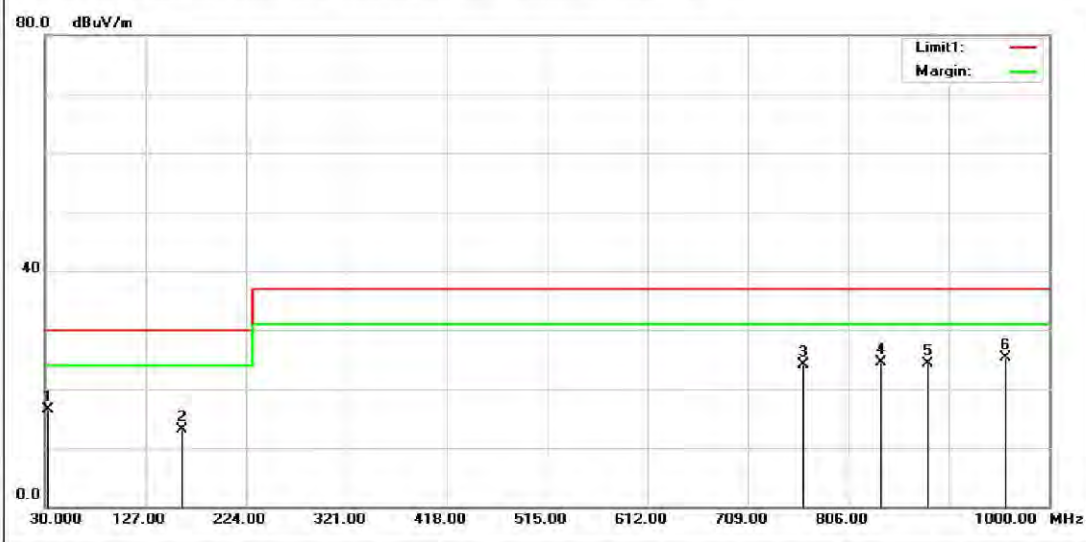
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Config_3_V

Site: SGS 10m Chamber	Date: 2020/1/11	Time: 上午 01:28:47
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 20 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 68 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: REC mode (Front)		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		32.9100	28.56	-12.05	16.51	30.00	-13.49			QP	
2		162.8900	23.77	-10.57	13.20	30.00	-16.80			QP	
3		762.3500	22.84	1.32	24.16	37.00	-12.84			QP	
4		838.0100	22.77	1.70	24.47	37.00	-12.53			QP	
5		882.6300	22.66	1.55	24.21	37.00	-12.79			QP	
6	*	958.2900	22.79	2.53	25.32	37.00	-11.68	220	240	QP	

*:Maximum data x:Over limit !:over margin

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Config_4_H

Site: SGS 10m Chamber	Date: 2020/1/16	Time: 上午 02:15:35
Limit: CISPR22 Class B 10m Radiation	Polarization: Horizontal	Temperature: 21 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 55 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B05		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		50.3700	24.11	-11.16	12.95	30.00	-17.05			QP	
2		159.0100	24.04	-10.75	13.29	30.00	-16.71			QP	
3		619.7600	23.30	-2.71	20.59	37.00	-16.41			QP	
4		739.0700	23.04	-0.13	22.91	37.00	-14.09			QP	
5	*	773.0200	26.49	0.30	26.79	37.00	-10.21	136	332	QP	
6		970.9000	23.18	1.58	24.76	37.00	-12.24			QP	

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Config_4_V

Site: SGS 10m Chamber	Date: 2020/1/16	Time: 上午 02:15:34
Limit: CISPR22 Class B 10m Radiation	Polarization: Vertical	Temperature: 21 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 55 %
Report: File :MH-2020-10023	Distance: 10m	Air Pressure: 990 hpa
Tester: Jeffrey Chou		
Note: LTE B05		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		33.8800	29.12	-11.93	17.19	30.00	-12.81			QP	
2		151.2500	24.21	-10.86	13.35	30.00	-16.65			QP	
3		731.3100	22.77	0.43	23.20	37.00	-13.80			QP	
4		781.7500	22.75	1.34	24.09	37.00	-12.91			QP	
5		940.8300	22.66	2.47	25.13	37.00	-11.87			QP	
6	*	983.5100	22.71	2.63	25.34	37.00	-11.66	110	269	QP	

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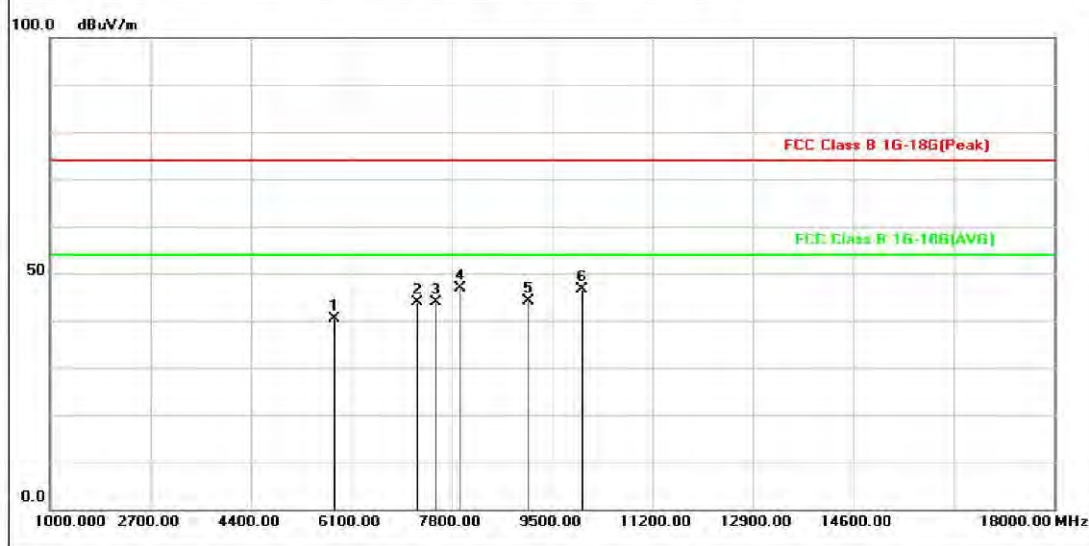
Above 1GHz

1GHz ~ 18GHz

Config_1_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 上午 01:59:44
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B02		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5811.000	45.37	-5.02	40.35	74.00	-33.65			peak	
2		7222.000	42.61	1.23	43.84	74.00	-30.16			peak	
3		7545.000	42.52	1.42	43.94	74.00	-30.06			peak	
4	*	7936.000	44.54	2.30	46.84	74.00	-27.16	100	136	peak	
5		9109.000	43.07	1.05	44.12	74.00	-29.88			peak	
6		10010.000	43.17	3.50	46.67	74.00	-27.33			peak	

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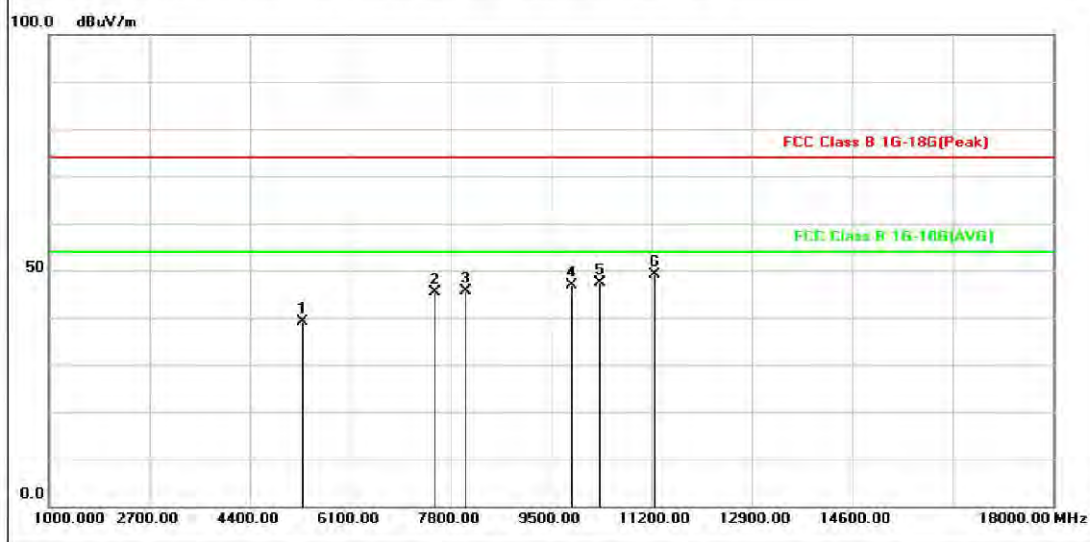
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Config_1_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 上午 01:12:07
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B02		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5284.000	45.09	-5.88	39.21	74.00	-34.79			peak	
2		7545.000	43.96	1.42	45.38	74.00	-28.62			peak	
3		8055.000	43.33	2.33	45.66	74.00	-28.34			peak	
4		9857.000	43.45	3.46	46.91	74.00	-27.09			peak	
5		10333.000	43.10	4.24	47.34	74.00	-26.66			peak	
6	*	11251.000	44.64	4.60	49.24	74.00	-24.76	105	174	peak	

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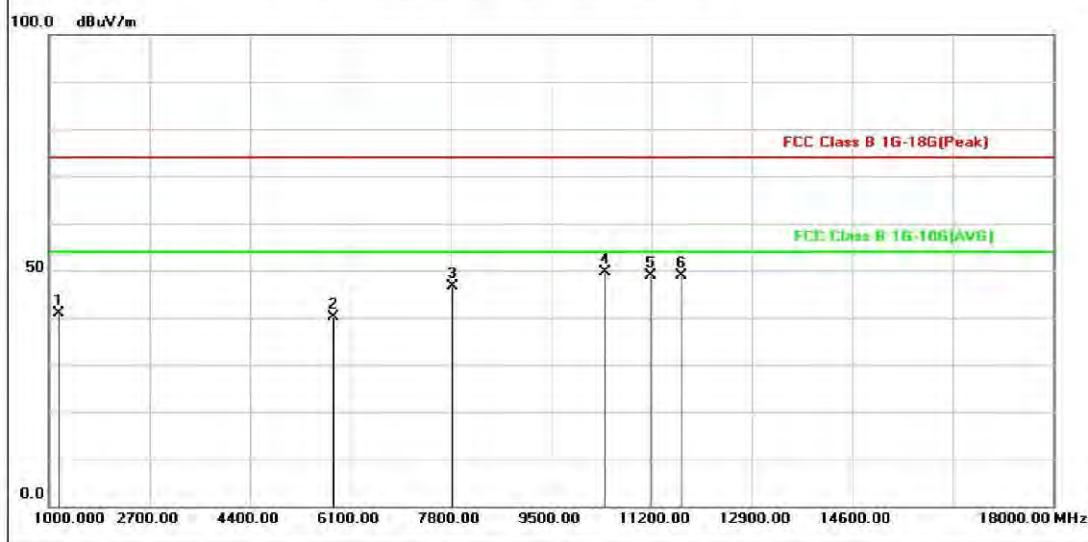
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Config_2_H

Site: SGS 966 Chamber B	Date: 2020/1/10	Time: 下午 08:47:50
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 2	Power: From System	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Data Internal Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		1170.000	56.99	-16.04	40.95	74.00	-33.05			peak	
2		5811.000	45.09	-5.02	40.07	74.00	-33.93			peak	
3		7834.000	44.90	1.74	46.64	74.00	-27.36			peak	
4	*	10418.000	44.97	4.54	49.51	74.00	-24.49	100	175	peak	
5		11183.000	44.21	4.65	48.86	74.00	-25.14			peak	
6		11710.000	45.04	3.75	48.79	74.00	-25.21			peak	

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Config_2_V

Site: SGS 966 Chamber B	Date: 2020/1/10	Time: 下午 08:13:05
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 2	Power: From System	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Data Internal Read		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		1935.000	62.00	-13.91	48.09	74.00	-25.91			peak	
2		2649.000	54.08	-11.54	42.54	74.00	-31.46			peak	
3		3193.000	52.04	-10.30	41.74	74.00	-32.26			peak	
4		7239.000	46.59	1.33	47.92	74.00	-26.08			peak	
5		7902.000	44.61	2.15	46.76	74.00	-27.24			peak	
6	*	10350.000	44.93	4.31	49.24	74.00	-24.76	100	36	peak	

*:Maximum data x:Over limit l:over margin

Page: 1

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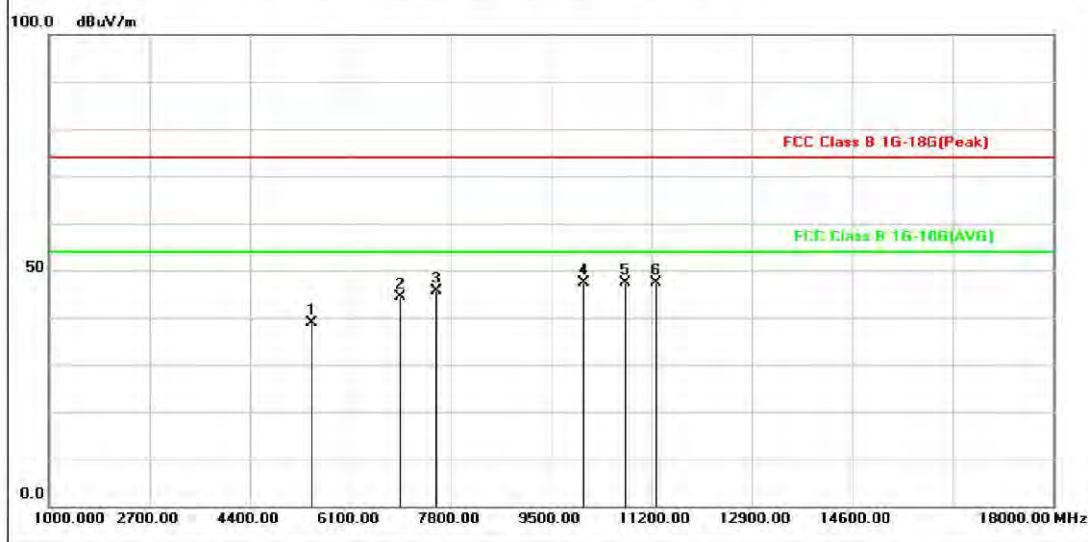
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Config_3_H

Site: SGS 966 Chamber B	Date: 2020/1/10	Time: 下午 09:58:30
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Mp3		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5454.000	44.54	-5.66	38.88	74.00	-35.12			peak	
2		6950.000	44.49	-0.13	44.36	74.00	-29.64			peak	
3		7562.000	44.31	1.42	45.73	74.00	-28.27			peak	
4		10044.000	43.82	3.48	47.30	74.00	-26.70			peak	
5		10758.000	42.37	4.92	47.29	74.00	-26.71			peak	
6	*	11285.000	42.89	4.61	47.50	74.00	-26.50	103	128	peak	

*:Maximum data x:Over limit !:over margin

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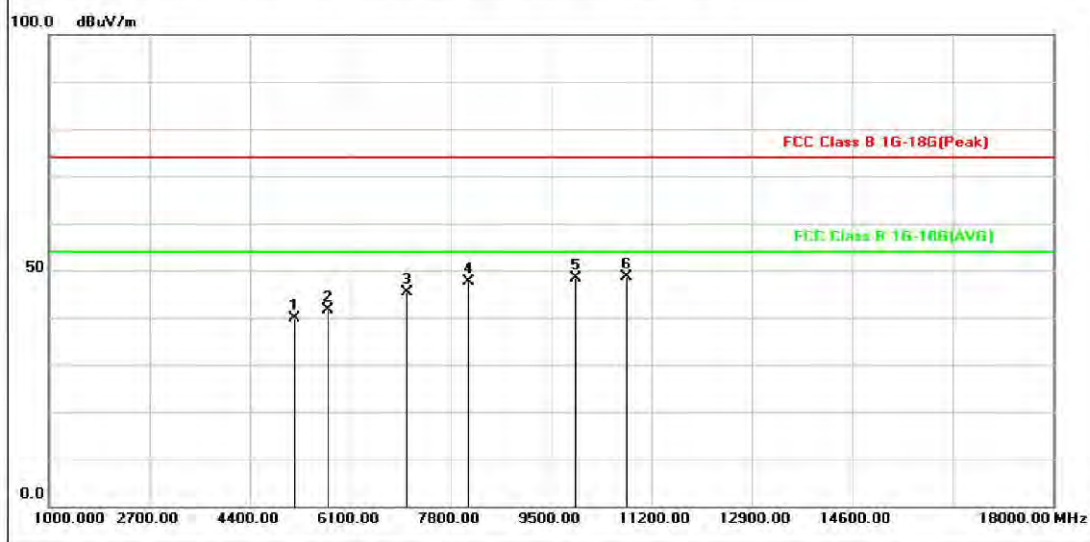
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Config_3_V

Site: SGS 966 Chamber B	Date: 2020/1/10	Time: 下午 09:22:15
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Mp3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5165.000	45.36	-5.50	39.86	74.00	-34.14			peak	
2		5726.000	46.78	-5.21	41.57	74.00	-32.43			peak	
3		7052.000	44.76	0.61	45.37	74.00	-28.63			peak	
4		8106.000	45.69	2.06	47.75	74.00	-26.25			peak	
5		9908.000	44.99	3.40	48.39	74.00	-25.61			peak	
6	*	10775.000	43.70	4.98	48.68	74.00	-25.32	105	145	peak	

*:Maximum data x:Over limit !:over margin

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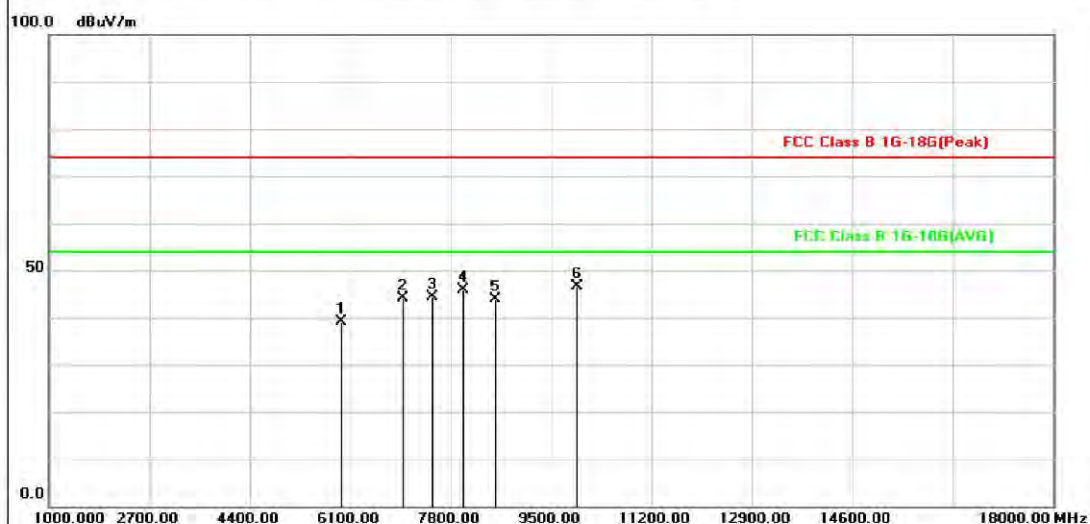
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Config_4_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 上午 02:57:30
Limit: FCC Class B 1G-18G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B05		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5947.000	43.85	-4.72	39.13	74.00	-34.87			peak	
2		6984.000	44.02	0.15	44.17	74.00	-29.83			peak	
3		7494.000	43.07	1.40	44.47	74.00	-29.53			peak	
4		8004.000	43.28	2.58	45.86	74.00	-28.14			peak	
5		8548.000	43.09	0.87	43.96	74.00	-30.04			peak	
6	*	9942.000	43.24	3.47	46.71	74.00	-27.29	100	42	peak	

*:Maximum data x:Over limit l:over margin

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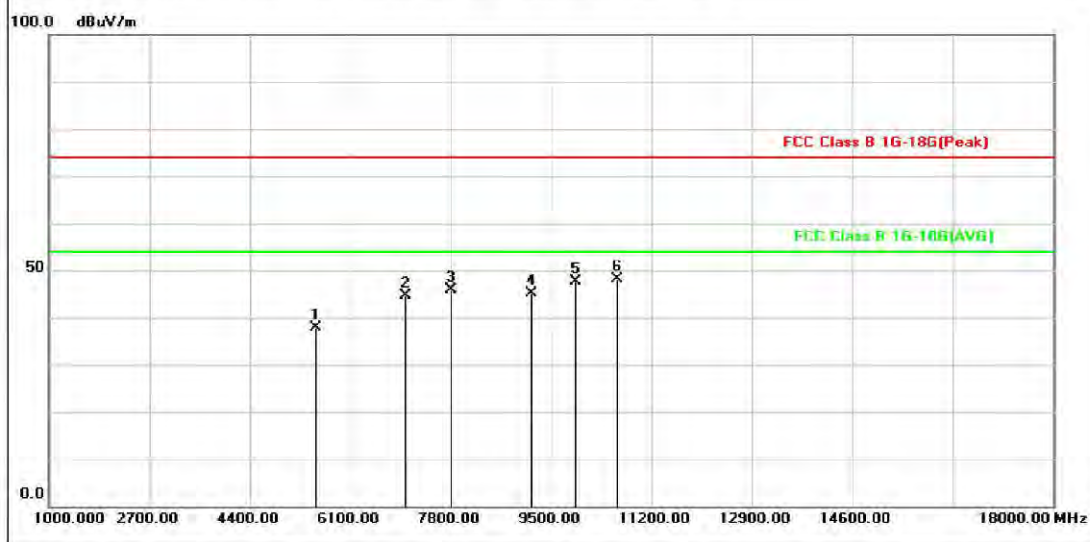
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Config_4_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 上午 02:23:36
Limit: FCC Class B 1G-18G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 3m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B05		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		5522.000	43.35	-5.38	37.97	74.00	-36.03			peak	
2		7035.000	44.10	0.51	44.61	74.00	-29.39			peak	
3		7817.000	44.11	1.66	45.77	74.00	-28.23			peak	
4		9160.000	43.79	1.32	45.11	74.00	-28.89			peak	
5		9925.000	44.16	3.44	47.60	74.00	-26.40			peak	
6	*	10622.000	43.45	4.67	48.12	74.00	-25.88	110	34	peak	

*:Maximum data x:Over limit !:over margin

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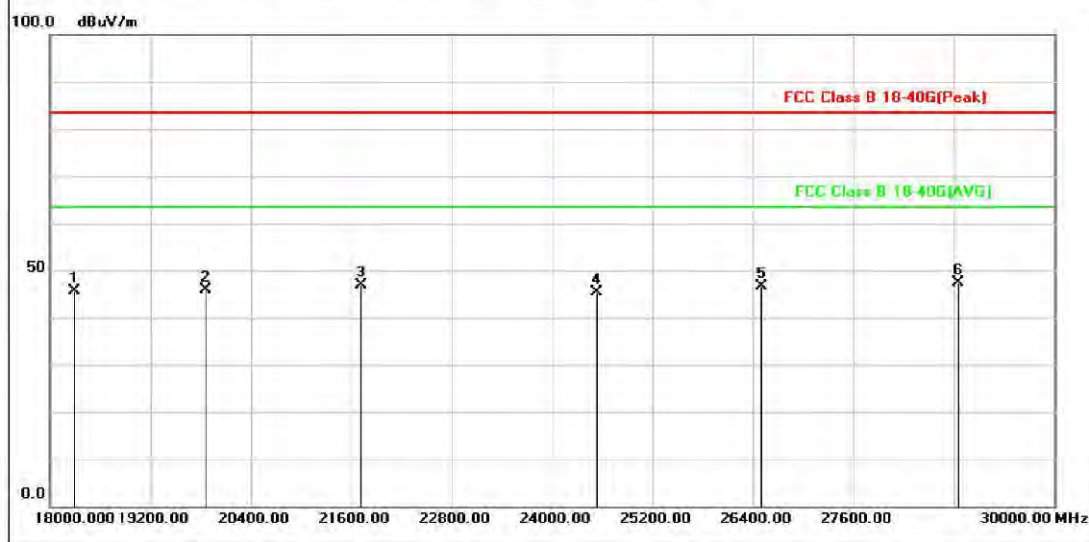


18GHz ~ 40GHz

Config_1_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 06:55:18
Limit: FCC Class B 18-40G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B02		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18288.000	46.21	-0.59	45.62	83.50	-37.88			peak	
2		19860.000	44.76	1.20	45.96	83.50	-37.54			peak	
3		21720.000	44.55	2.35	46.90	83.50	-36.60			peak	
4		24528.000	40.54	4.79	45.33	83.50	-38.17			peak	
5		26508.000	42.73	3.90	46.63	83.50	-36.87			peak	
6	*	28848.000	43.95	3.42	47.37	83.50	-36.13	100	140	peak	

*:Maximum data x:Over limit !:over margin

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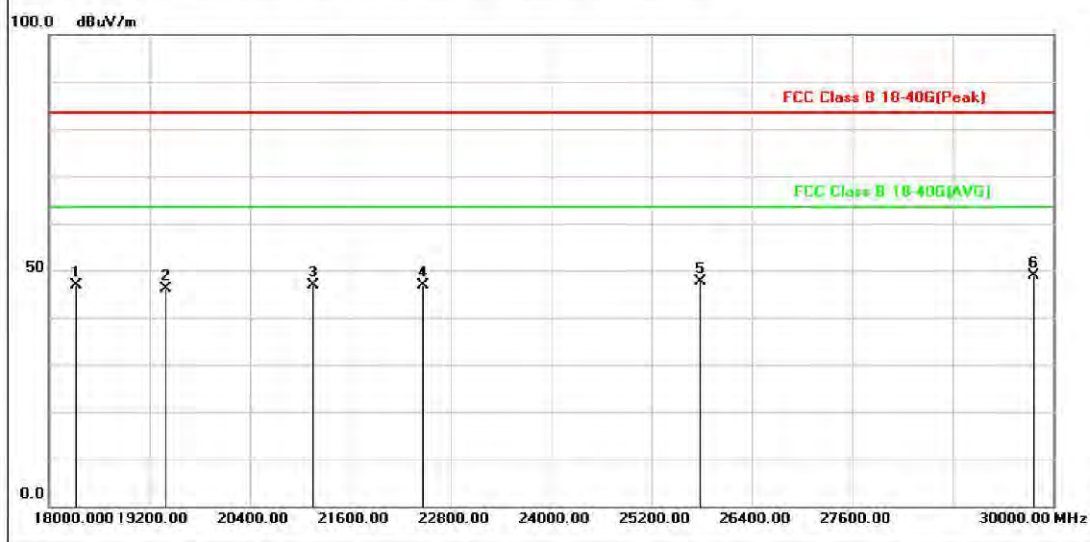
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Config_1_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 06:25:41
Limit: FCC Class B 18-40G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 1	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B02		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18324.000	47.40	-0.63	46.77	83.50	-36.73			peak	
2		19404.000	45.58	0.48	46.06	83.50	-37.44			peak	
3		21156.000	44.84	1.99	46.83	83.50	-36.67			peak	
4		22464.000	43.67	3.23	46.90	83.50	-36.60			peak	
5		25776.000	43.49	4.22	47.71	83.50	-35.79			peak	
6	*	29760.000	44.66	4.30	48.96	83.50	-34.54	110	115	peak	

*:Maximum data x:Over limit !:over margin

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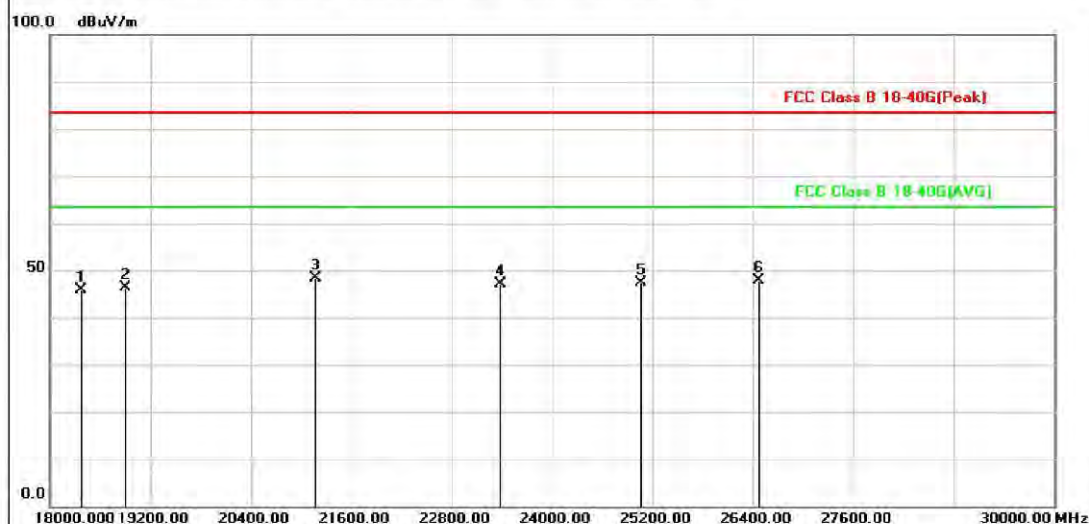
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Config_2_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 07:53:21
Limit: FCC Class B 18-40G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 2	Power: From System	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Data ExInternal Read		

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Ke9 1st Rd., Guishan District, Taoyuan City, Taiwan 333



No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18372.000	46.49	-0.68	45.81	83.50	-37.69			peak	
2		18900.000	46.85	-0.48	46.37	83.50	-37.13			peak	
3	*	21168.000	46.42	2.01	48.43	83.50	-35.07	100	36	peak	
4		23388.000	43.47	3.59	47.06	83.50	-36.44			peak	
5		25056.000	42.94	4.44	47.38	83.50	-36.12			peak	
6		26472.000	44.03	3.93	47.96	83.50	-35.54			peak	

*:Maximum data x:Over limit l:over margin

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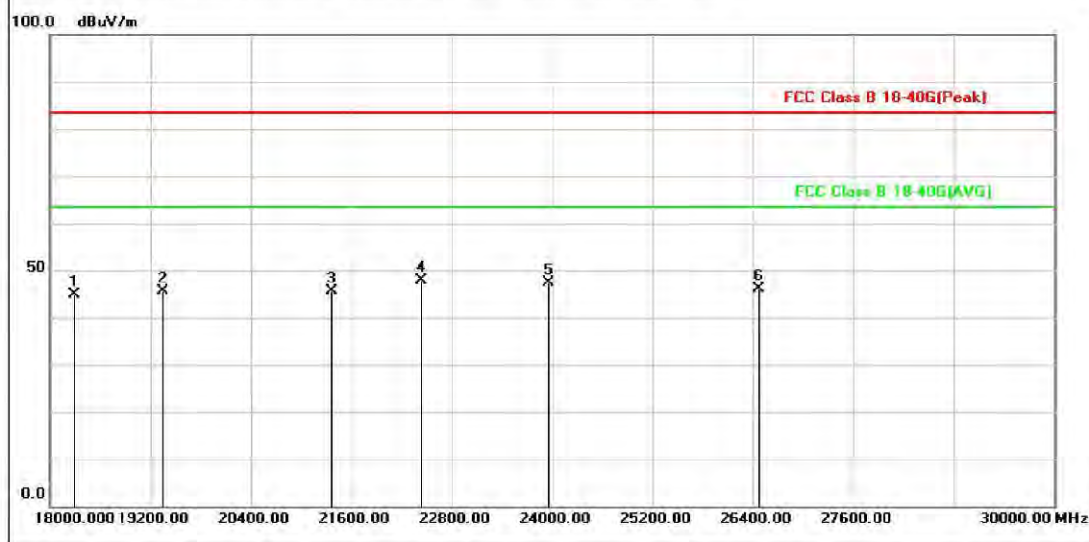
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Config_2_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 07:27:40
Limit: FCC Class B 18-40G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 2	Power: From System	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: Data ExInternal Read		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18300.000	45.38	-0.60	44.78	83.50	-38.72			peak	
2		19356.000	45.20	0.38	45.58	83.50	-37.92			peak	
3		21372.000	43.31	2.25	45.56	83.50	-37.94			peak	
4	*	22440.000	44.79	3.18	47.97	83.50	-35.53	104	15	peak	
5		23964.000	43.77	3.70	47.47	83.50	-36.03			peak	
6		26472.000	42.27	3.93	46.20	83.50	-37.30			peak	

*:Maximum data x:Over limit l:over margin

Page: 1

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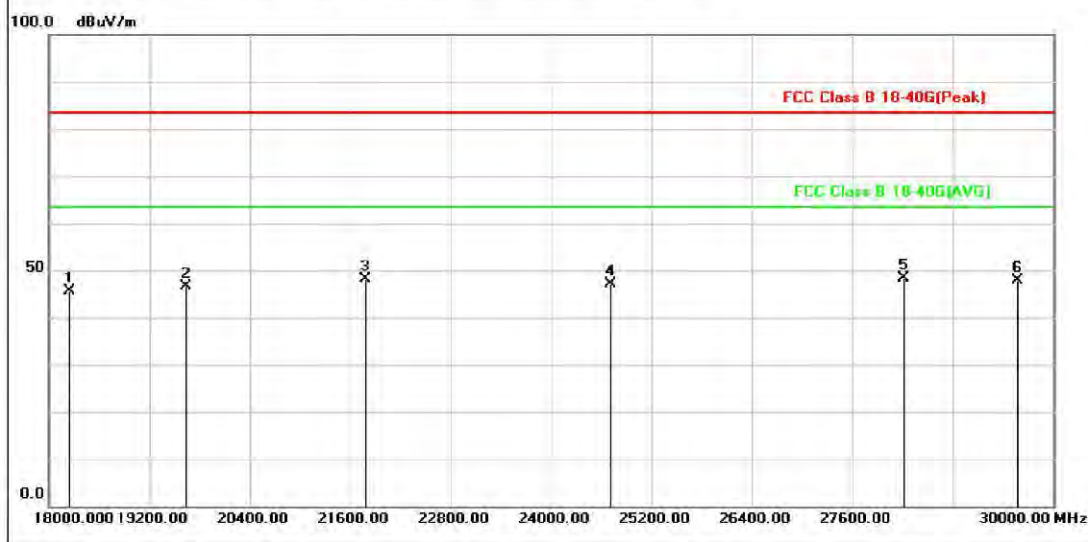
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Config_3_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 08:58:30
Limit: FCC Class B 18-40G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18252.000	46.17	-0.55	45.62	83.50	-37.88			peak	
2		19632.000	45.78	0.88	46.66	83.50	-36.84			peak	
3		21780.000	45.89	2.35	48.24	83.50	-35.26			peak	
4		24708.000	42.55	4.67	47.22	83.50	-36.28			peak	
5	*	28212.000	44.69	3.64	48.33	83.50	-35.17	105	42	peak	
6		29580.000	43.58	4.23	47.81	83.50	-35.69			peak	

*:Maximum data x:Over limit !:over margin

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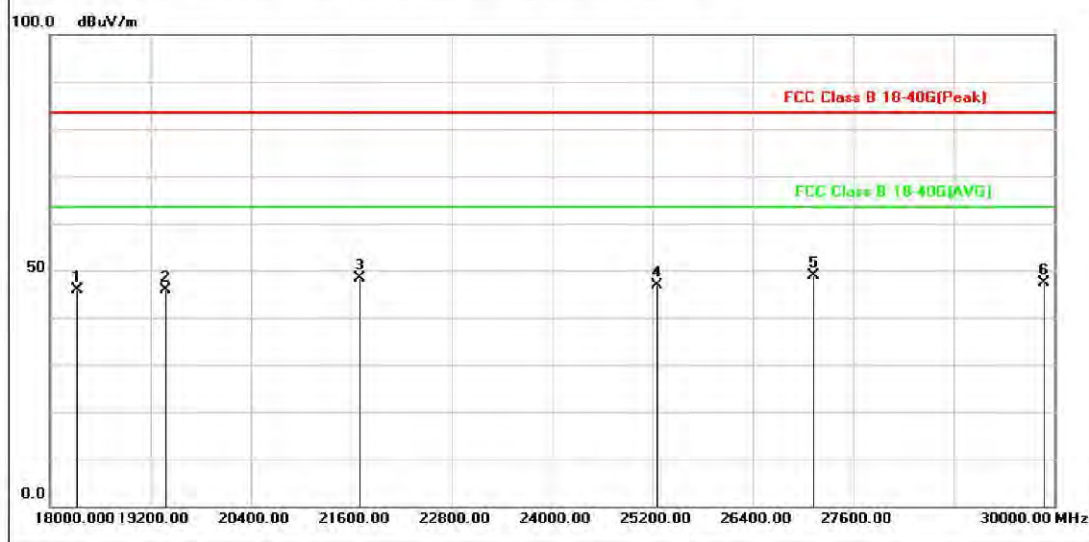
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Config_3_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 08:21:25
Limit: FCC Class B 18-40G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 3	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: MP3		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18324.000	46.57	-0.63	45.94	83.50	-37.56			peak	
2		19380.000	45.44	0.44	45.88	83.50	-37.62			peak	
3		21708.000	46.11	2.36	48.47	83.50	-35.03			peak	
4		25248.000	42.66	4.25	46.91	83.50	-36.59			peak	
5	*	27132.000	44.72	4.21	48.93	83.50	-34.57	108	140	peak	
6		29880.000	43.03	4.35	47.38	83.50	-36.12			peak	

*:Maximum data x:Over limit !:over margin

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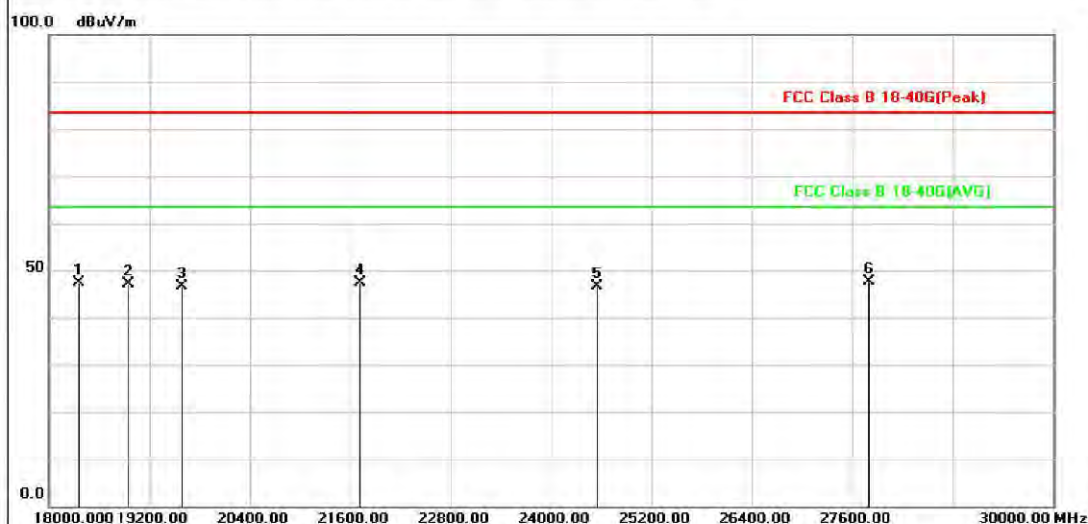
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Config_4_H

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 09:57:44
Limit: FCC Class B 18-40G(Peak)	Polarization: Horizontal	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B05		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18360.000	47.92	-0.66	47.26	83.50	-36.24			peak	
2		18948.000	47.55	-0.44	47.11	83.50	-36.39			peak	
3		19596.000	45.69	0.83	46.52	83.50	-36.98			peak	
4		21720.000	45.05	2.35	47.40	83.50	-36.10			peak	
5		24552.000	41.77	4.77	46.54	83.50	-36.96			peak	
6	*	27792.000	43.63	4.10	47.73	83.50	-35.77	100	152	peak	

*:Maximum data x:Over limit !:over margin

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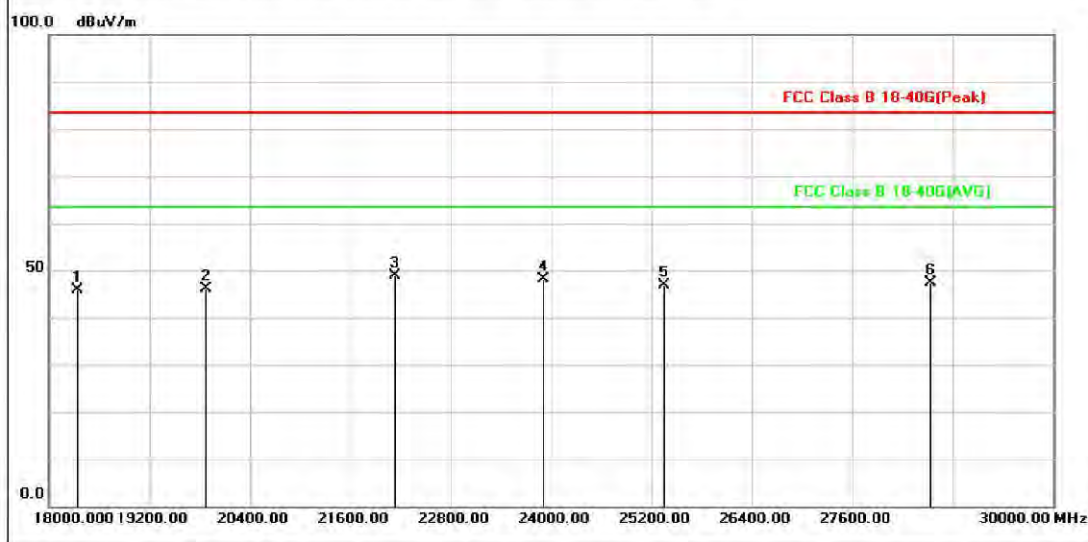
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Config_4_V

Site: SGS 966 Chamber B	Date: 2020/1/12	Time: 下午 09:33:35
Limit: FCC Class B 18-40G(Peak)	Polarization: Vertical	Temperature: 22 °C
Mode: Config 4	Power: AC 120V/60Hz	Humidity: 67 %
Report: MH-2020-10023	Distance: 1m	Air Pressure: 990 hpa
Tester: Ken Chen		
Note: LTE B05		

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No.	Mk	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Height (cm)	Degree (deg.)	Detector	Comment
1		18336.000	46.52	-0.63	45.89	83.50	-37.61			peak	
2		19872.000	45.02	1.23	46.25	83.50	-37.25			peak	
3	*	22128.000	46.21	2.56	48.77	83.50	-34.73	100	52	peak	
4		23916.000	44.38	3.70	48.08	83.50	-35.42			peak	
5		25344.000	42.79	4.16	46.95	83.50	-36.55			peak	
6		28536.000	43.83	3.67	47.50	83.50	-36.00			peak	

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