

Prüfbericht-Nr.: <i>Test Report No.:</i>	60410970 001	Auftrags-Nr.: <i>Order No.:</i>	244246753	Seite 1 von 58 <i>Page 1 of 58</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	2045411	Auftragsdatum: <i>Order date:</i>	19.06.2020	
Auftraggeber: <i>Client:</i>	FCC : DECATHLON USA LLC 2415 3rd Street, Suite 231, San Francisco California United States IC : DECATHLON SE 4 Boulevard de Mons, VILLENEUVE D'ASCQ, 59650, France			
Prüfgegenstand: <i>Test item:</i>	Treadmills			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	T540C FCC ID: 2AH2PT540C IC: 24468-T540C HVIN: T540C			
Auftrags-Inhalt: <i>Order content:</i>	Complete test			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 RSS-Gen Issue 5, Amendment 1, March 2019 RSS-247 Issue 2, February 2017 ANSI C63.10: 2013			
Wareneingangsdatum: <i>Date of receipt:</i>	19.06.2020			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002851406-001~003			
Prüfzeitraum: <i>Testing period:</i>	10.07.2020 to 24.08.2020			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by: <i>Tony C. L. Chen</i>		kontrolliert von / reviewed by: <i>Hongfei Wu</i>		
26.10.2020 <i>Datum</i> <i>Date</i>	Tony C. L. Chen / PE <i>Name / Stellung</i> <i>Name / Position</i>	26.10.2020 <i>Datum</i> <i>Date</i>	Hongfei Wu / Reviewer <i>Name / Stellung</i> <i>Name / Position</i>	
	Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>	
Sonstiges / Other Model code: 8642119 (US/CA) or 8542702 (BR) Concept code: 117846 Supplier code: 5187 Supplier: STRENGTH MASTER FITNESS TECHCO., LTD Request reference No.: L074-03-2006-0006				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) Legend: 1 = very good 2 = good 3 = satisfactory P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s)		4 = ausreichend 5 = mangelhaft N/A = nicht anwendbar N/T = nicht getestet 4 = sufficient 5 = poor N/A = not applicable N/T = not tested		
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 6dB & 99% BANDWIDTH

RESULT: Pass

5.1.3 PEAK OUTPUT POWER

RESULT: Pass

5.1.4 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS

RESULT: Pass

5.2.1 CONDUCTED EMISSION

RESULT: Pass

5.3.1 RADIATED BAND-EDGE

RESULT: Pass

5.3.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Shanghai TUV Rheinland Building No. 177, 178 Lane 777, West Guangzhong Rd, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 958801.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 2932F.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
3m Anechoic Chamber	Frankonia	SAC3	FJ129002	13.05.2022
EMI Test Receiver	R&S	ESCI	100280	31.10.2020
Spectrum Analyzer	R&S	FSV40	101258	31.10.2021
BiLog Antenna	Teseq	CBL 6112D	40530	13.02.2021
Log-periodic Antenna	R&S	HL050	100692	16.02.2021
Preamplifier	Taiwan EMC Instruments Corporation	EMC051845SE	980612	05.03.2021
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	9170-305	09.07.2021
Preamplifier	Taiwan EMC Instruments Corporation	EMC184045SE	980596	05.03.2021
Spectrum Analyzer	Keysight	N9020A	MY54500180	09.05.2021
DC Power Supply	ALLPOWER	ADC50-20	99223	12.10.2020
Thermohygrometer	Testo	608-H1	1241320614	13.10.2020
EMI test receiver	R&S	ESIB26	G1811380	06.03.2021
Artificial main network	R&S	ENV432	G1830003	01.11.2020
EMC measurement software	R&S	EMC32	G1824845	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

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2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	9kHz – 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is an ordinary treadmill which support Bluetooth Low Energy.

The aim of this report is to evaluate the RF characteristic of the Bluetooth Low Energy Part of this module.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	Treadmills
Model No.:	T540C
Rated Voltage:	AC 110~127 V, 50/60 Hz
Treadmill Panel	
Product Name:	DOMYOS Fitness CONSOLE
Model No.:	T540C Console
Rated Voltage:	DC 12V
Bluetooth Low Energy	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi

Note:

Treadmill panel has Bluetooth function, for the rest is mechanical structure which will not affect RF performance, so only assess the treadmill panel for RF performance

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Channel	Frequency
TM1	00	2402
TM2	19	2440
TM3	39	2480
TM4	Normal Operating Mode	

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

Test Software used: ISRT_V2.1.28.4678

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT:**Pass**

According to the manufacturer declared, the EUT has one PCB antenna, the directional gain of antenna is 3dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 5: Antenna Requirement

FCC 15.203 – Antenna Requirement 1	
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device
Results:	Antenna type: PCB antenna
Verdict:	Pass

FCC 15.204 – Antenna Requirement 2	
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one integral antenna can be used
Verdict:	Pass

RSS-Gen 6.4 – External Controls	
Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs.
Results:	The device does not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs.
Verdict:	Pass

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RSS-Gen 6.8 – Antenna Requirement

Requirement: When measurements at the antenna port are used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

a) Antenna type:	PCB
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	3dBi

Verdict: Pass

5.1.2 6dB & 99% Bandwidth**RESULT:****Pass**

Date of testing : 10.08.2020
Ambient temperature : 20.6°C
Relative humidity : 58.6%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(2)
RSS-247 Issue 2, February 2017, Clause 5.2(a)
Test procedure : KDB 558074 D01v05r02
ANSI C63.10: 2013
Test voltage : DC 12V
Test modes applied : TM1 to TM3

Table 6: 6dB & 99% Bandwidth

Test Mode	CH.	Freq. [MHz]	6dB Bandwidth [kHz]	99% Bandwidth [kHz]
TM1	00	2402	664.2	1056.8
TM2	19	2440	664.1	1052.5
TM3	39	2480	668.1	1047.0

Note:

For frequency hopping systems operating in the 2400 – 2483.5MHz band, no bandwidth limit is specified. The test data is provide for reference.

And according to FCC, when the occupied bandwidth limit is not stated in the applicable FCC or reference measurement method, the transmitted signal band width shall be reported as the 99% emission bandwidth.

Figure 1: 6dB Bandwidth, 2402MHz

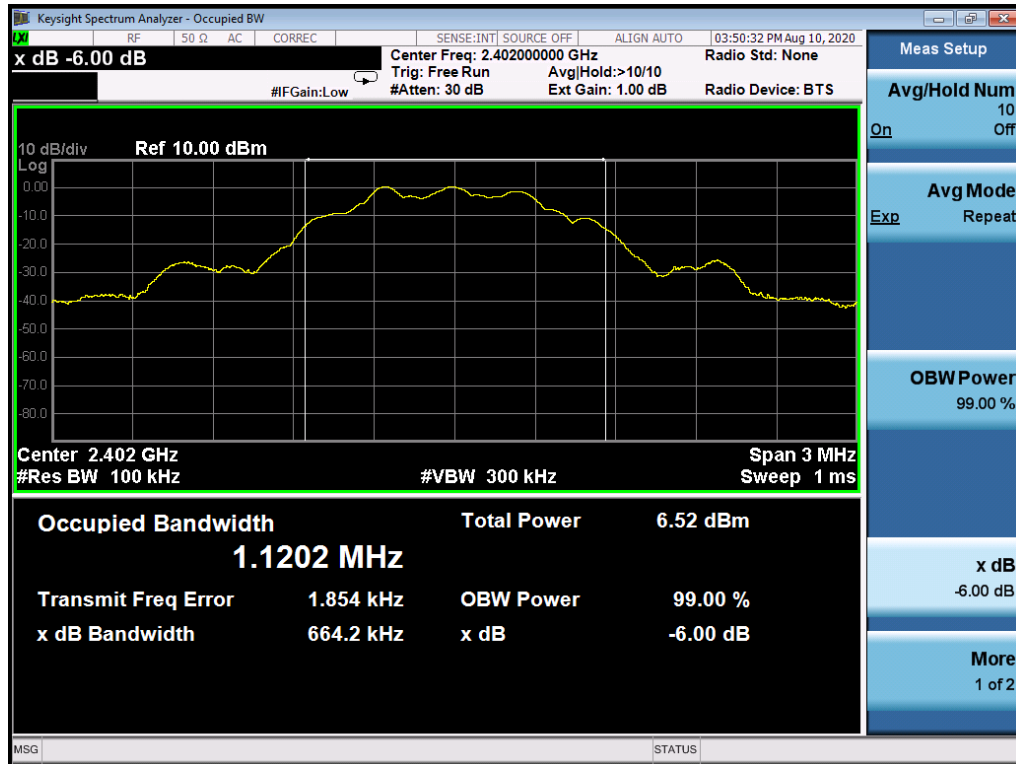


Figure 2: 6dB Bandwidth, 2440MHz

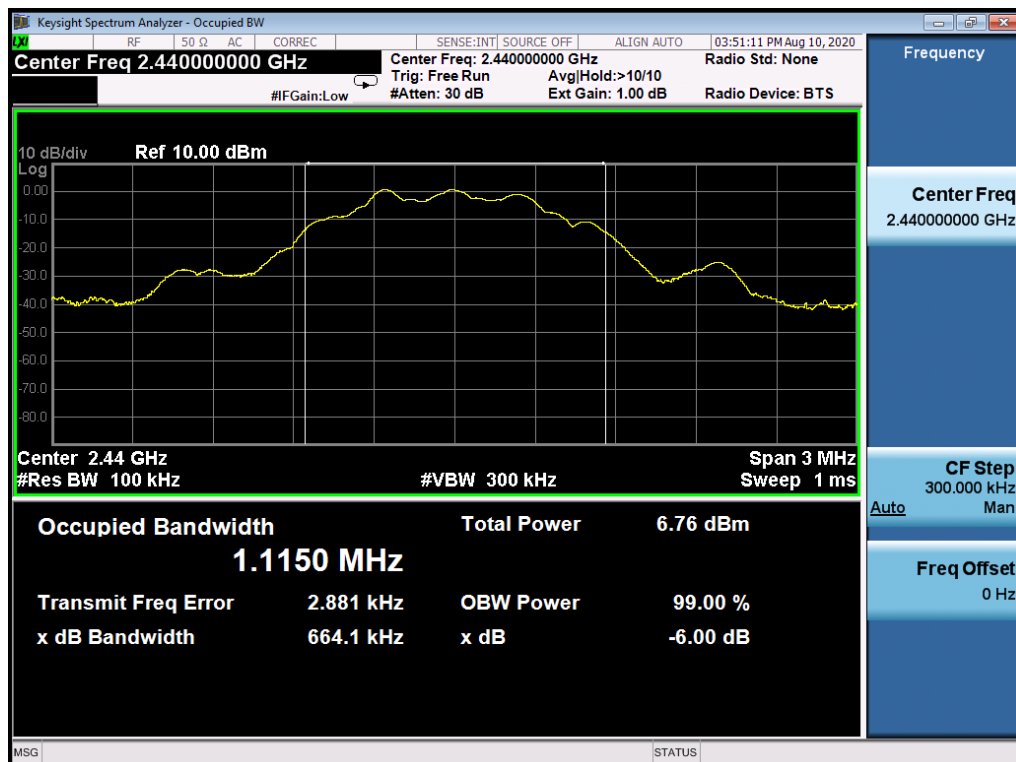


Figure 3: 6dB Bandwidth, 2480MHz

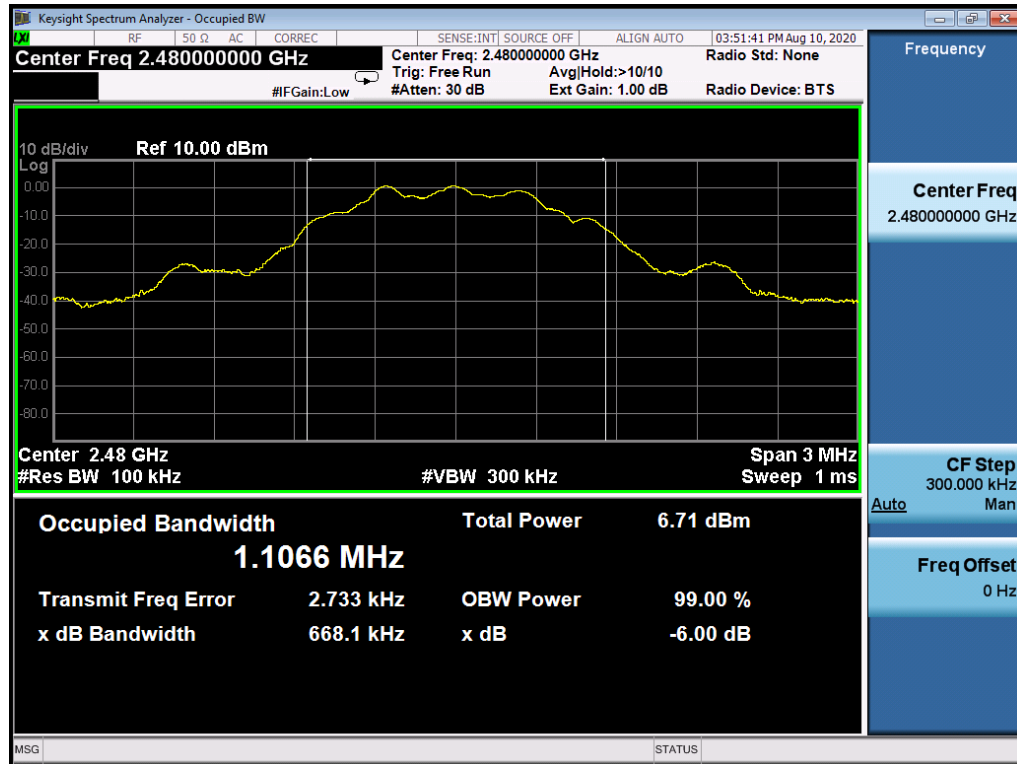


Figure 4: 99% Bandwidth, 2402MHz

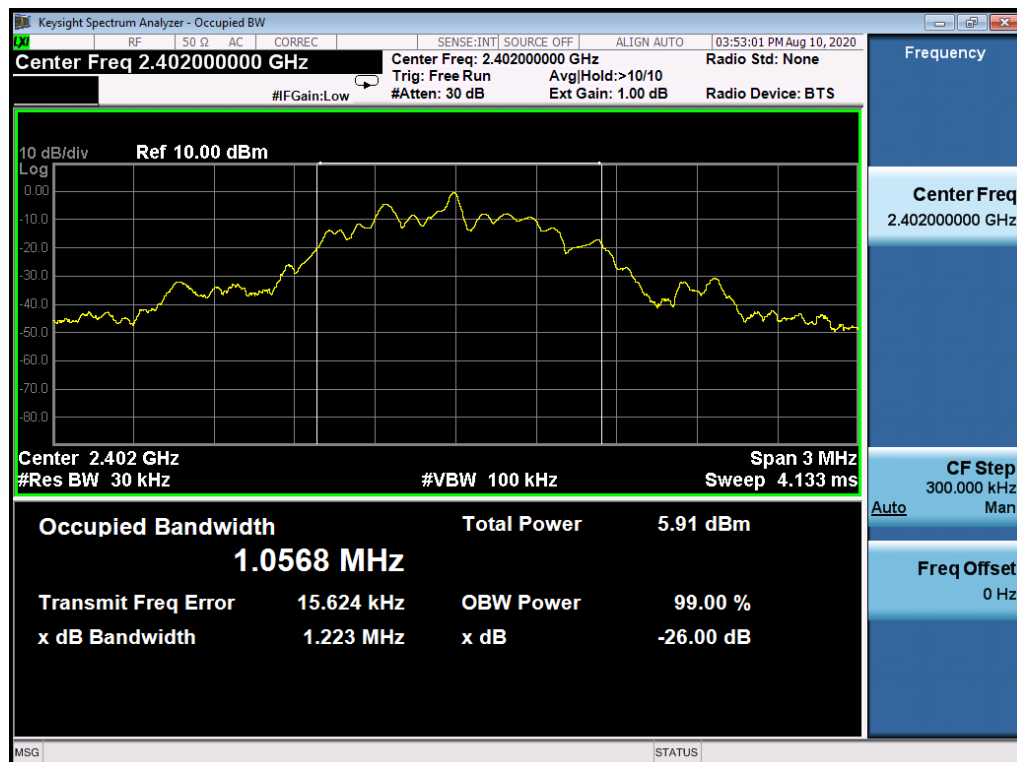


Figure 5: 99% Bandwidth, 2440MHz

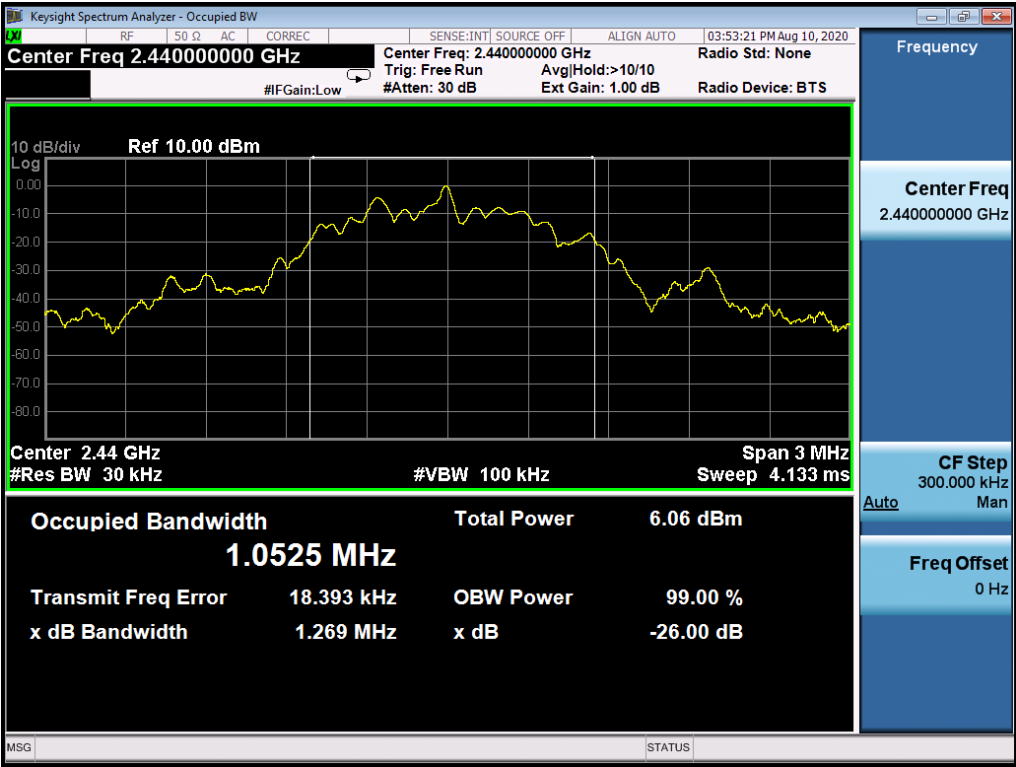
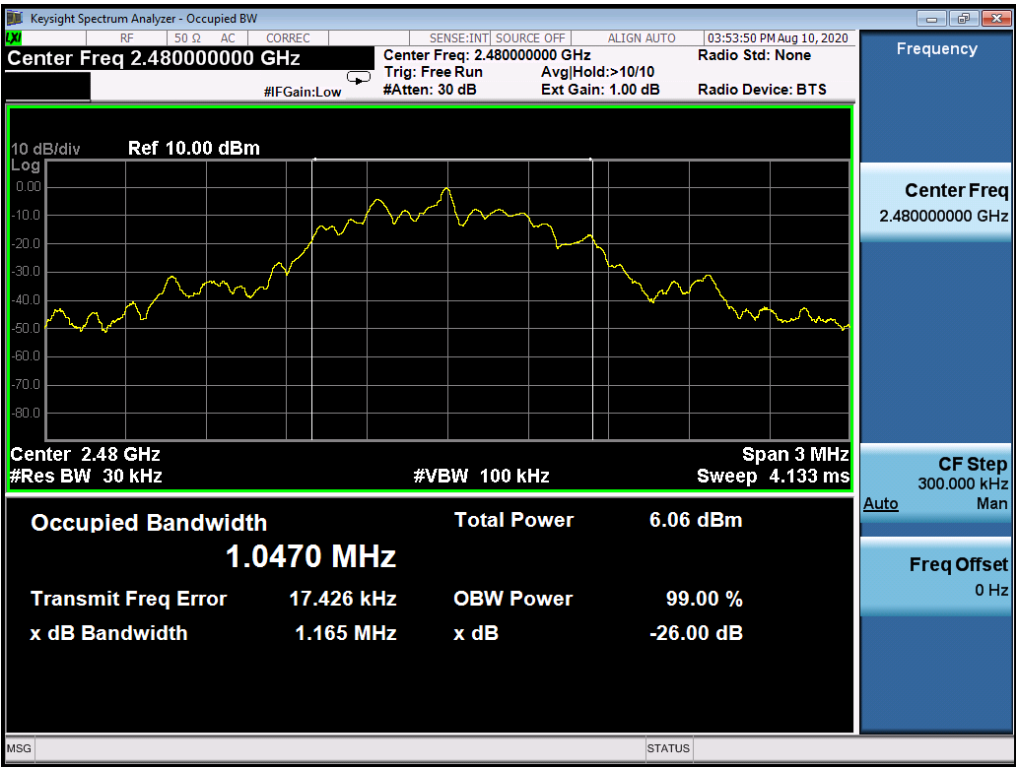


Figure 6: 99% Bandwidth, 2480MHz



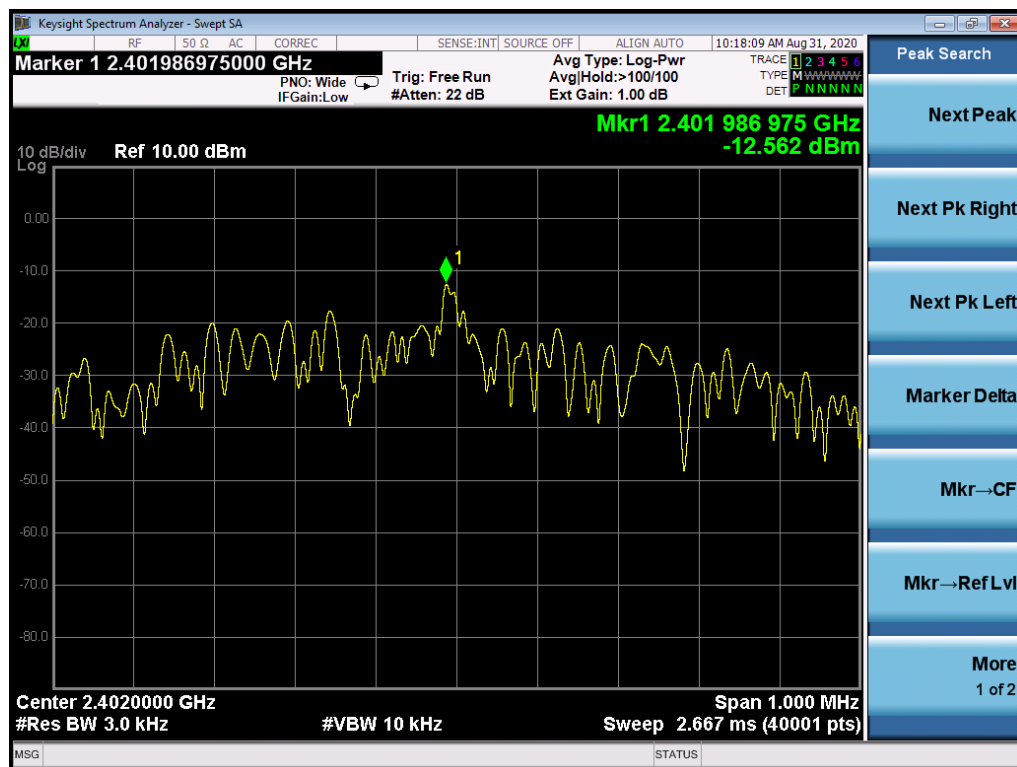


Figure 8: Power Spectral Density, 2440MHz

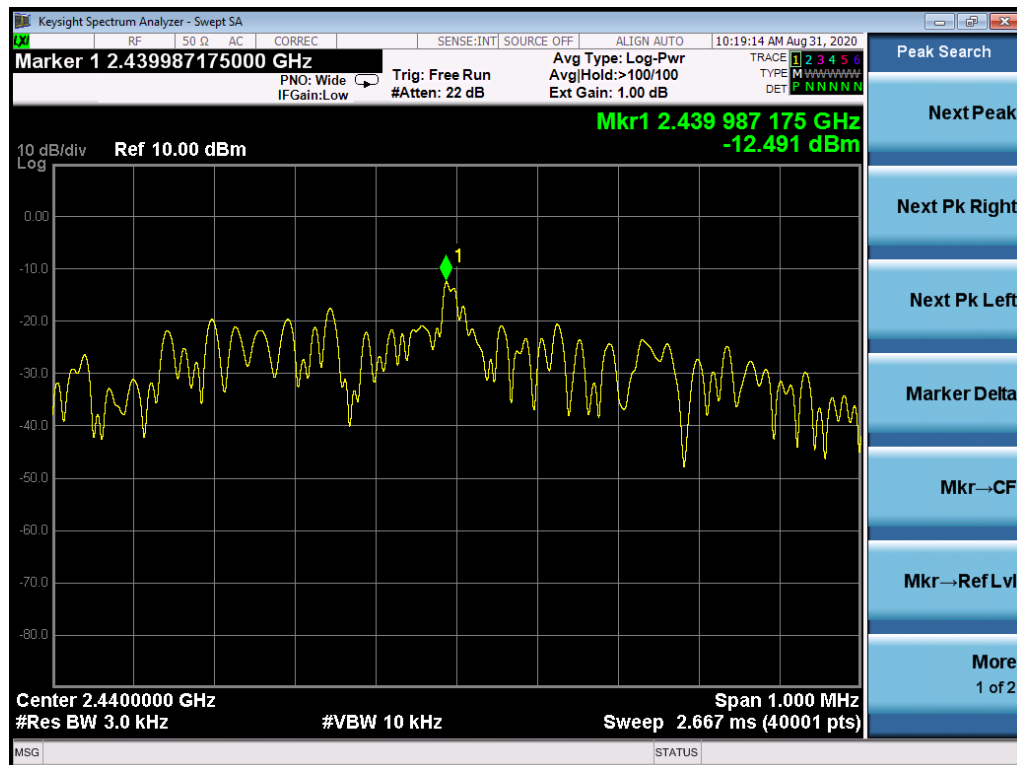
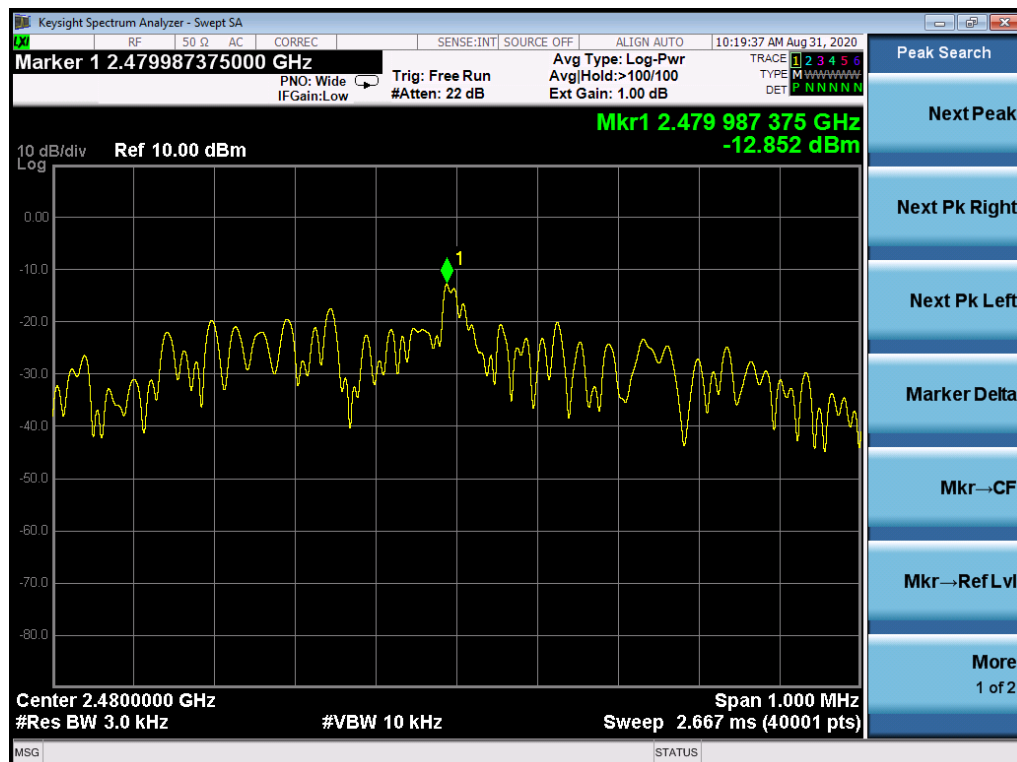


Figure 9: Power Spectral Density, 2480MHz



5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:

Pass

Date of testing	:	10.08.2020
Ambient temperature	:	21.4°C
Relative humidity	:	56.1%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	:	KDB 558074 D01v05r02 ANSI C63.10: 2013
Test voltage	:	DC 12V
Test modes applied	:	TM1 to TM3

Figure 10: Reference level, 2402MHz

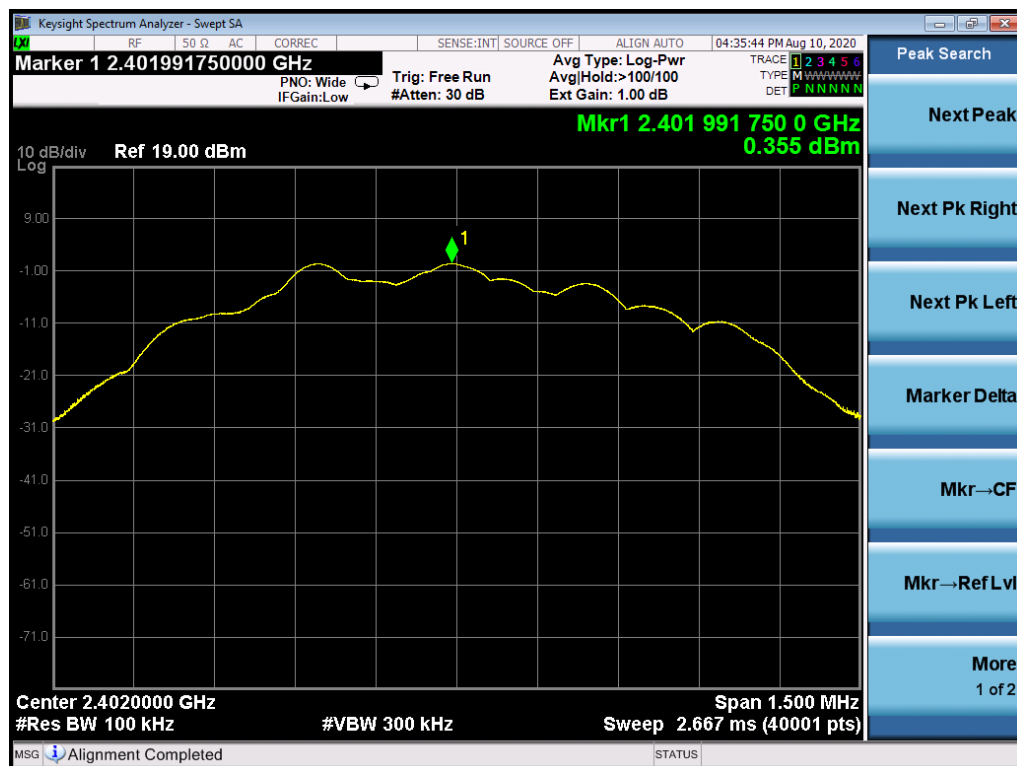


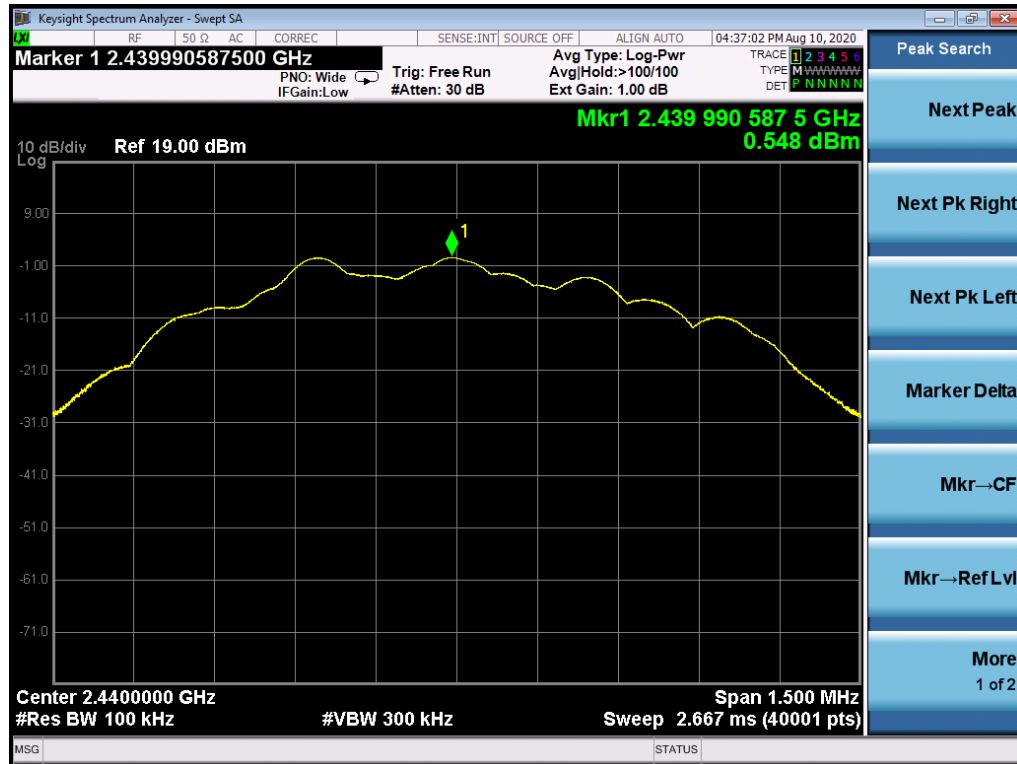
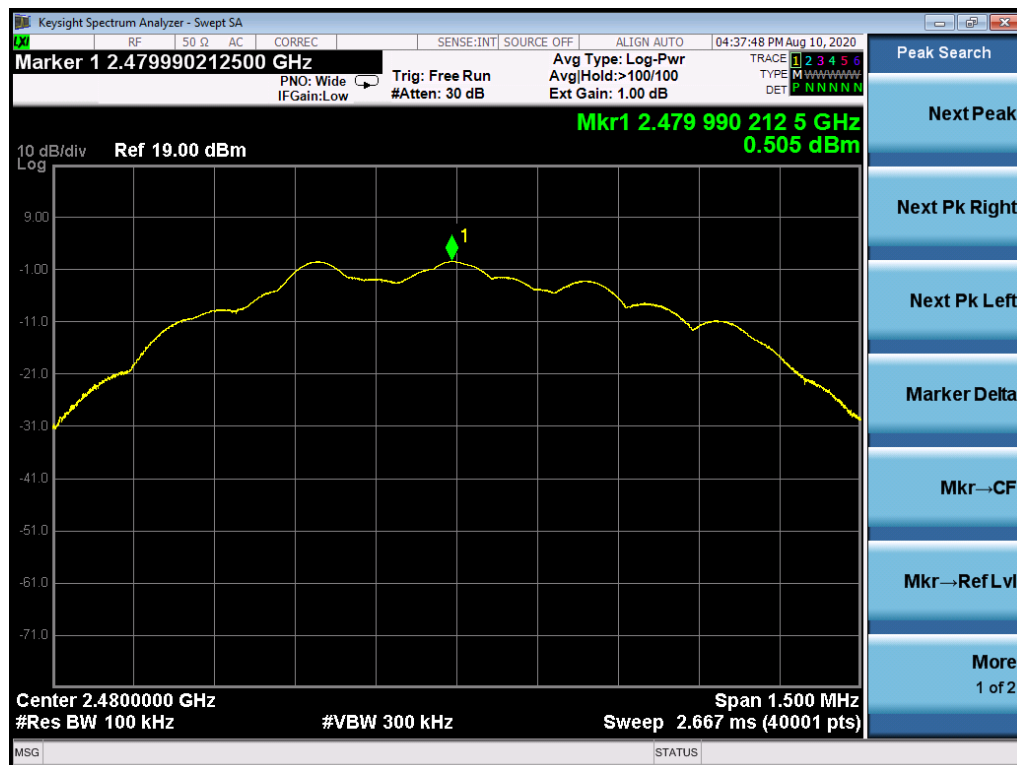
Figure 11: Reference level, 2440MHz

Figure 12: Reference level, 2480MHz


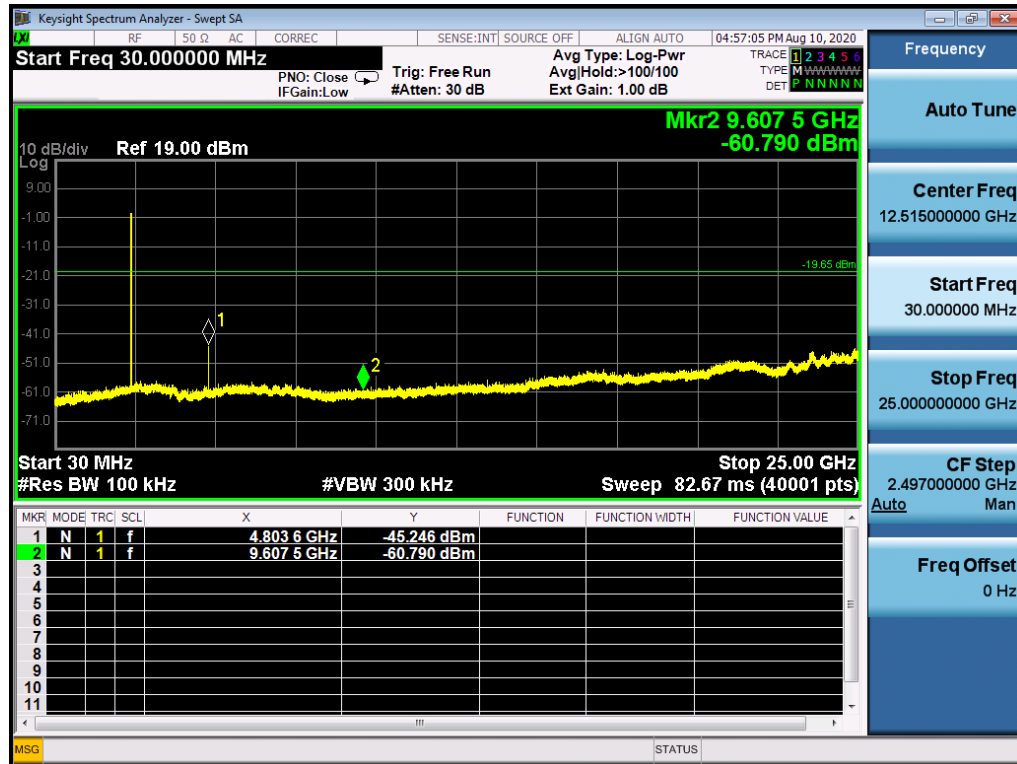
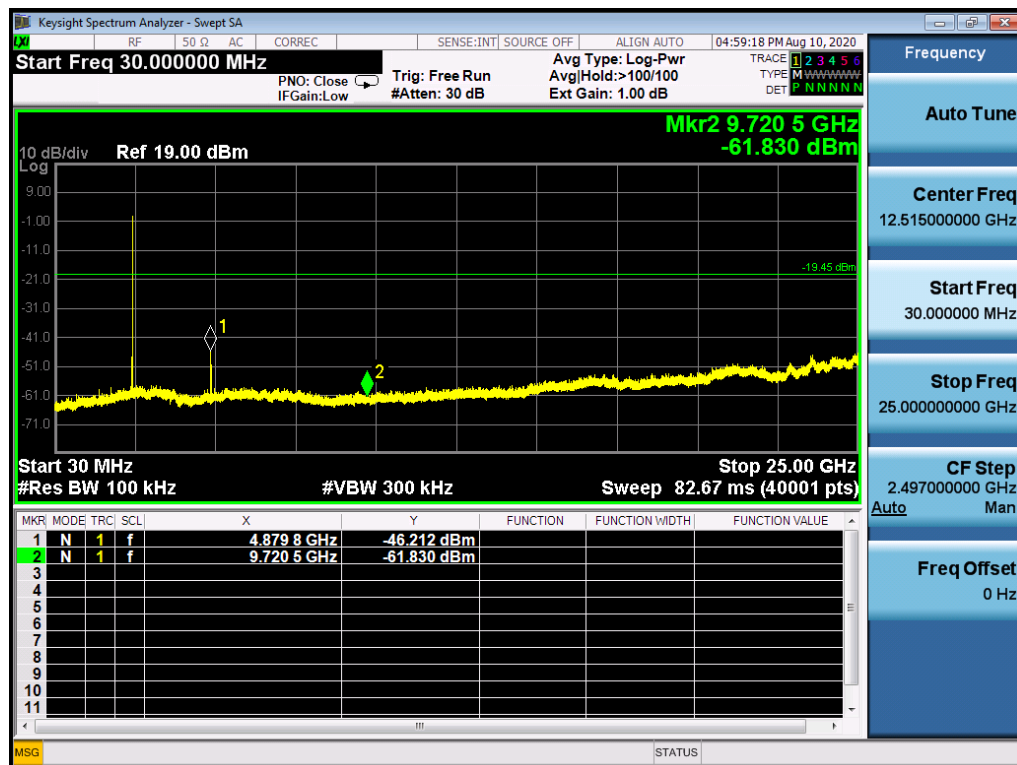
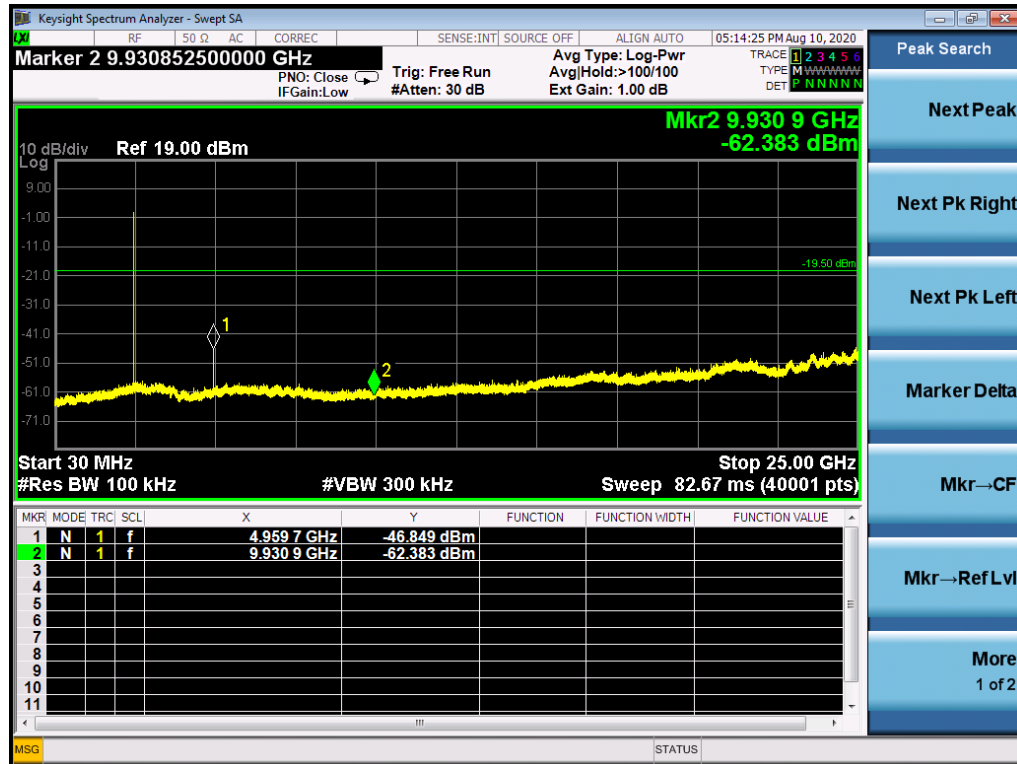
Figure 13: Conducted Spurious Emission, 2402MHz

Figure 14: Conducted Spurious Emission, 2440MHz


Figure 15: Conducted Spurious Emission, 2480MHz

Figure 16: Conducted Band Edge, Lower Band



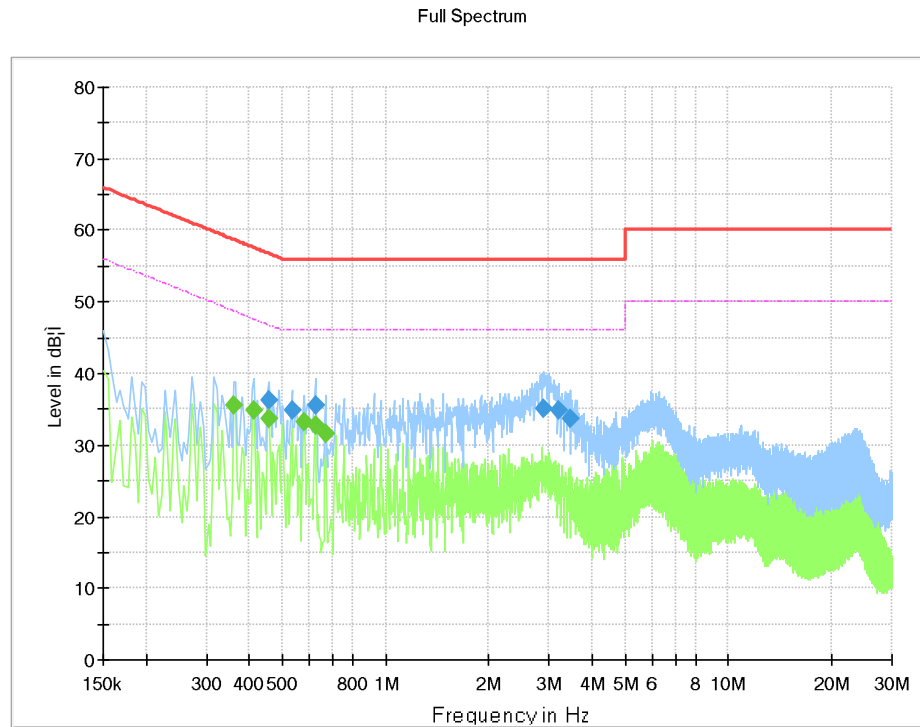

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5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**Pass**

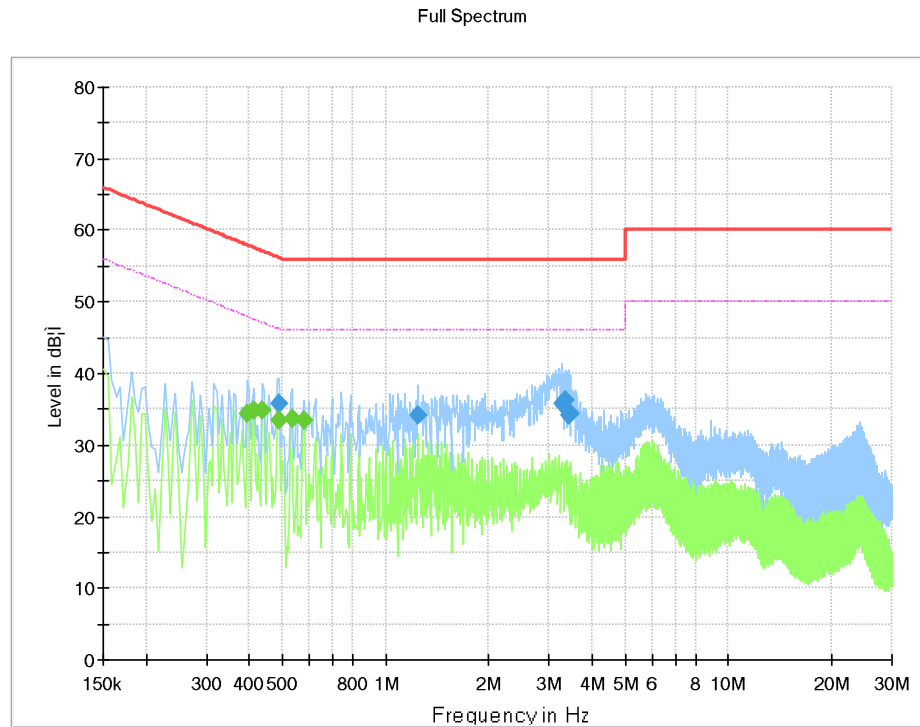
Date of testing	: 24.08.2020
Ambient temperature	: 26.1°C
Relative humidity	: 32.7%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.207 (a) RSS-Gen Issue 5, Amendment 1, March 2019, Clause 8.8
Test procedure	: KDB 558074 D01v05r02 ANSI C63.10: 2013
Test voltage	: AC 120V, 60Hz
Test modes applied	: TM4

Figure 18: Conducted Emission, L

Table 9: Conducted Emission, L, Final Result_QPK

Frequency [MHz]	QuasiPeak [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.456000	36.23	56.77	20.53	1000.0	9.000	L1	9.6
0.532500	34.86	56.00	21.14	1000.0	9.000	L1	9.6
0.622500	35.52	56.00	20.48	1000.0	9.000	L1	9.6
2.890500	35.11	56.00	20.90	1000.0	9.000	L1	9.7
3.196500	34.79	56.00	21.21	1000.0	9.000	L1	9.7
3.471000	33.76	56.00	22.24	1000.0	9.000	L1	9.7

Table 10: Conducted Emission, L, Final Result_CAV

Frequency [MHz]	CAverage [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.361500	35.45	48.69	13.24	1000.0	9.000	L1	9.6
0.411000	34.80	47.63	12.83	1000.0	9.000	L1	9.6
0.456000	33.71	46.77	13.05	1000.0	9.000	L1	9.6
0.577500	33.29	46.00	12.71	1000.0	9.000	L1	9.6
0.622500	32.79	46.00	13.21	1000.0	9.000	L1	9.6
0.667500	31.49	46.00	14.51	1000.0	9.000	L1	9.6

Figure 19: Conducted Emission, N

Table 11: Conducted Emission, N, Final Result_QPK

Frequency [MHz]	QuasiPeak [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.487500	35.80	56.21	20.41	1000.0	9.000	N	9.6
1.243500	34.25	56.00	21.75	1000.0	9.000	N	9.6
3.255000	35.71	56.00	20.29	1000.0	9.000	N	9.6
3.363000	36.29	56.00	19.71	1000.0	9.000	N	9.6
3.426000	34.22	56.00	21.78	1000.0	9.000	N	9.6
3.471000	34.47	56.00	21.53	1000.0	9.000	N	9.6

Table 12: Conducted Emission, N, Final Result_CAV

Frequency [MHz]	CAverage [dBμV]	Limit [dBμV]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Line	Corr. (dB)
0.393000	34.29	48.00	13.71	1000.0	9.000	N	9.6
0.411000	34.76	47.63	12.87	1000.0	9.000	N	9.6
0.438000	34.79	47.10	12.31	1000.0	9.000	N	9.6
0.487500	33.45	46.21	12.76	1000.0	9.000	N	9.6
0.532500	33.66	46.00	12.34	1000.0	9.000	N	9.6
0.577500	33.40	46.00	12.60	1000.0	9.000	N	9.6

5.3 Emission in the Frequency Range above 30MHz

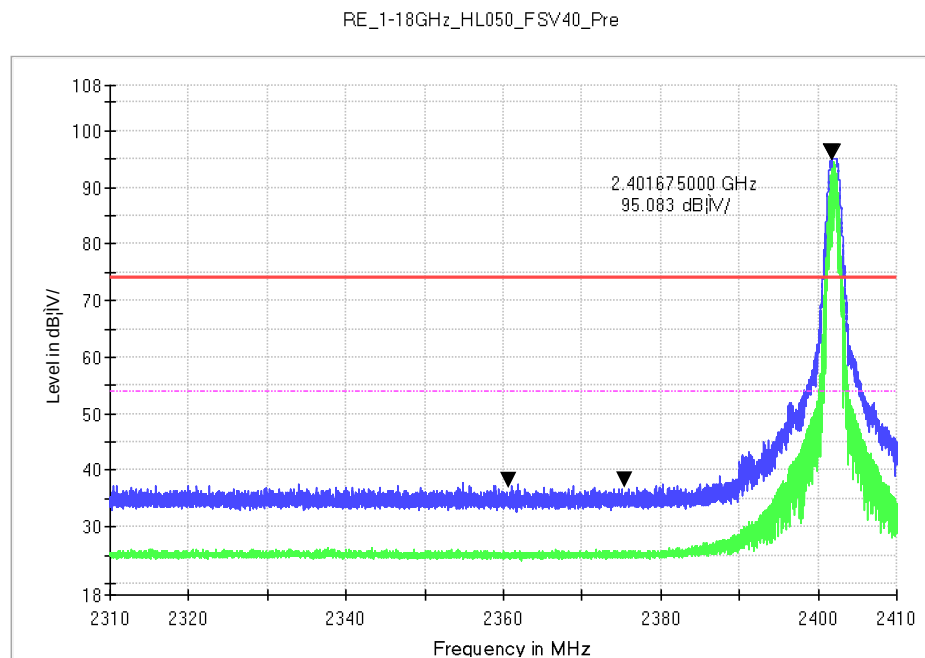
5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	28.07.2020
Ambient temperature	:	26.1°C
Relative humidity	:	32.7%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC 15.247(d) FCC 15.205(a) FCC 15.209(a) Clause 5.5 of RSS-247 Issue 2 February 2017 Clause 8.90 of RSS-Gen Issue 5, March 2019 Clause 8.10 of RSS-Gen Issue 5, March 2019
Test procedure	:	KDB 558074 D01v05r02 ANSI C63.10: 2013
Test voltage	:	DC 12V
Test modes applied	:	TM1, TM3

Note:

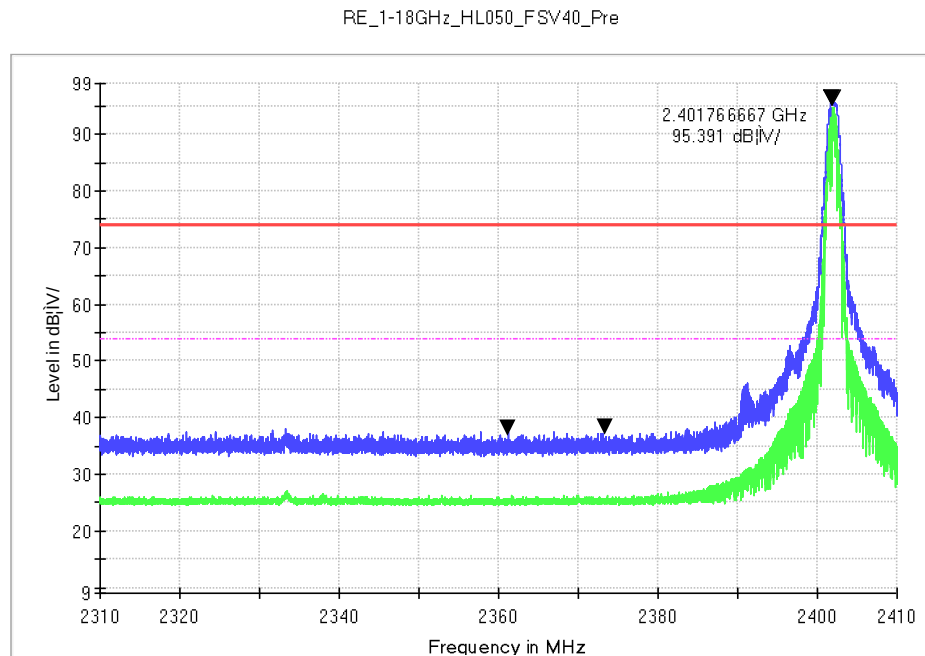
All the test modes were applied, only the worst case were shown in this report.

Figure 20: Radiated Band-Edge, TM1, H

Table 13: Radiated Band-Edge, TM1, H

Frequency [MHz]	Measure Level [dBµV/m]	Reading Level [dBµV]	Over Limit [dB]	Limit [dBµV/m]	Factor	Type
2361.553	36.658	15.301	-37.342	74.000	21.357	PK
2375.460	36.552	15.112	-37.448	74.000	21.440	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

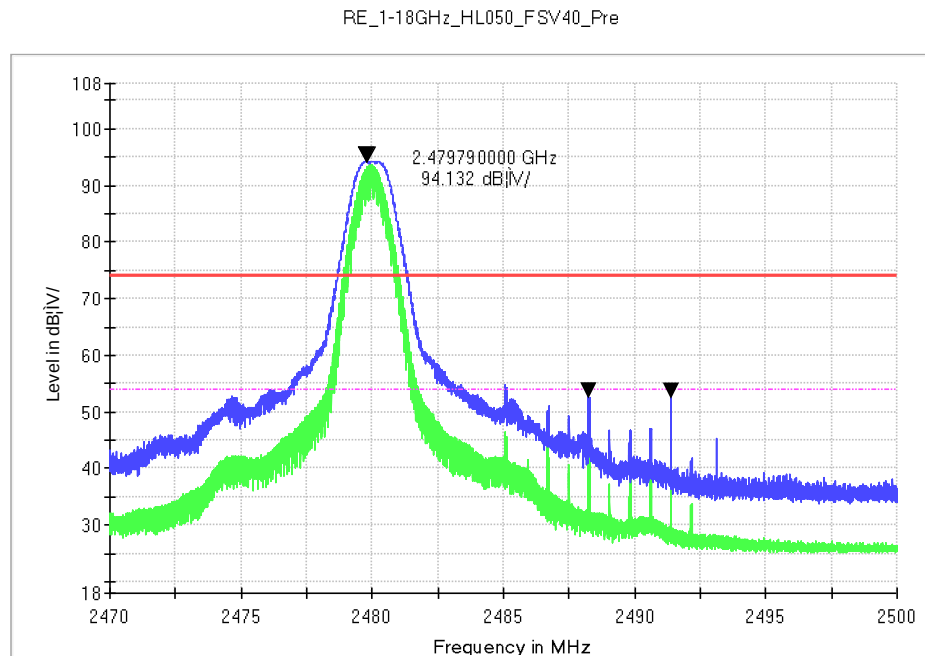
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 21: Radiated Band-Edge, TM1, V

Table 14: Radiated Band-Edge, TM1, V

Frequency [MHz]	Measure Level [dBµV/m]	Reading Level [dBµV]	Over Limit [dB]	Limit [dBµV/m]	Factor	Type
2361.867	36.261	15.030	-37.739	74.000	21.231	PK
2373.343	36.862	15.028	-37.138	74.000	21.834	PK

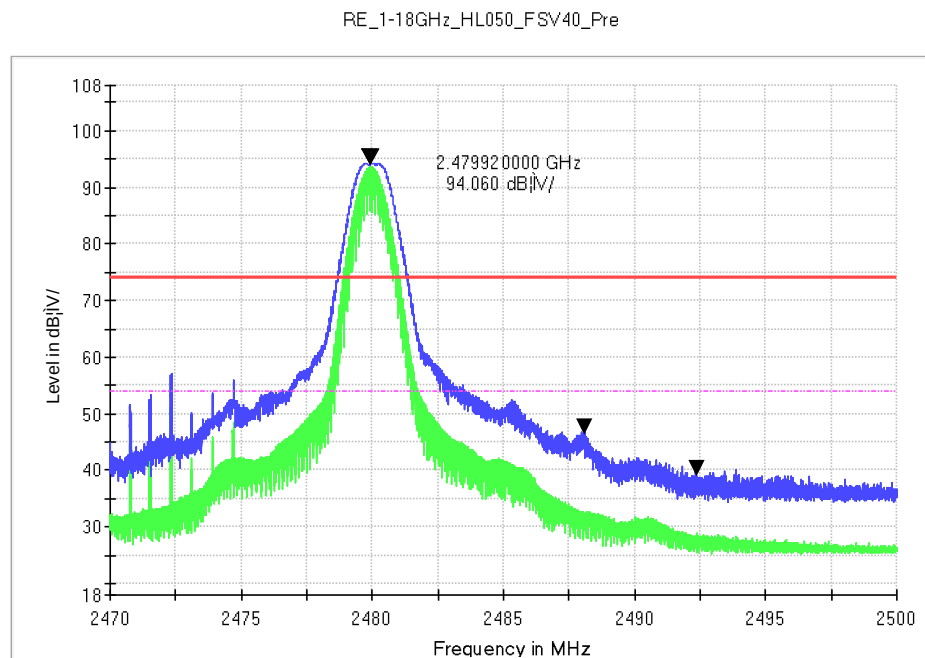
Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 22: Radiated Band-Edge, TM3, H

Table 15: Radiated Band-Edge, TM3, H

Frequency [MHz]	Measure Level [dBµV/m]	Reading Level [dBµV]	Over Limit [dB]	Limit [dBµV/m]	Factor	Type
2488.345	57.411	35.959	-16.589	74.000	21.452	PK
2492.179	57.598	36.337	-16.402	74.000	21.261	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Figure 23: Radiated Band-Edge, TM3, V

Table 16: Radiated Band-Edge, TM3, V

Frequency [MHz]	Measure Level [dBµV/m]	Reading Level [dBµV]	Over Limit [dB]	Limit [dBµV/m]	Factor	Type
2487.805	45.331	23.388	-28.769	74.000	21.387	PK
2492.479	39.625	15.267	-37.438	74.000	21.403	PK

Note: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

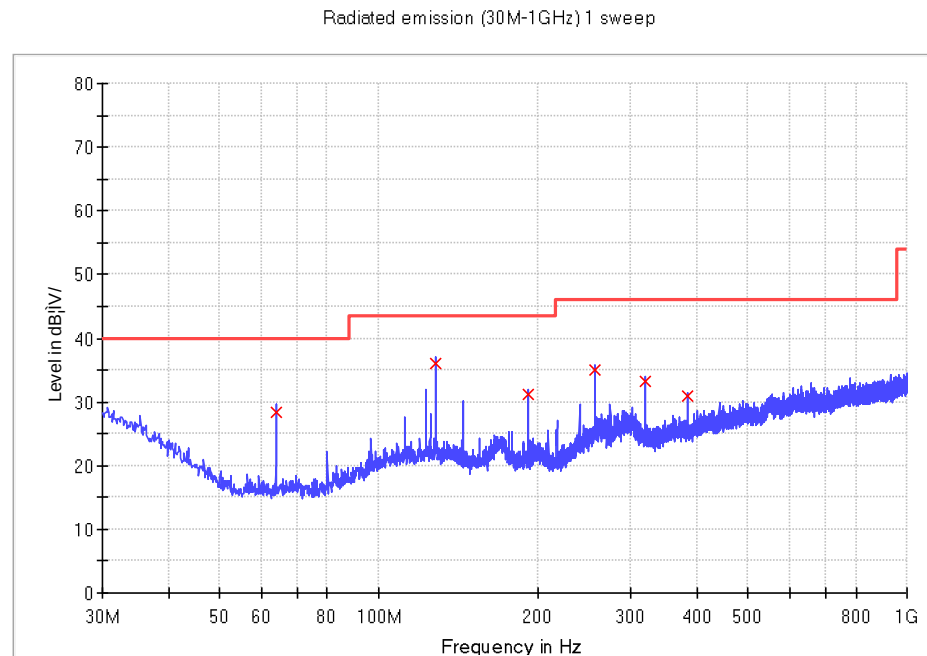
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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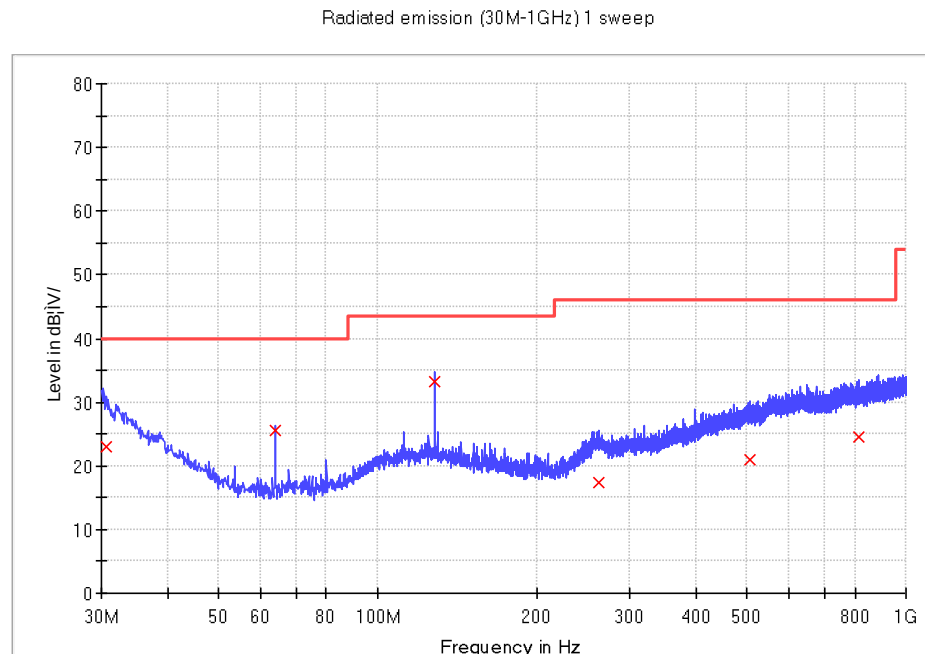
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

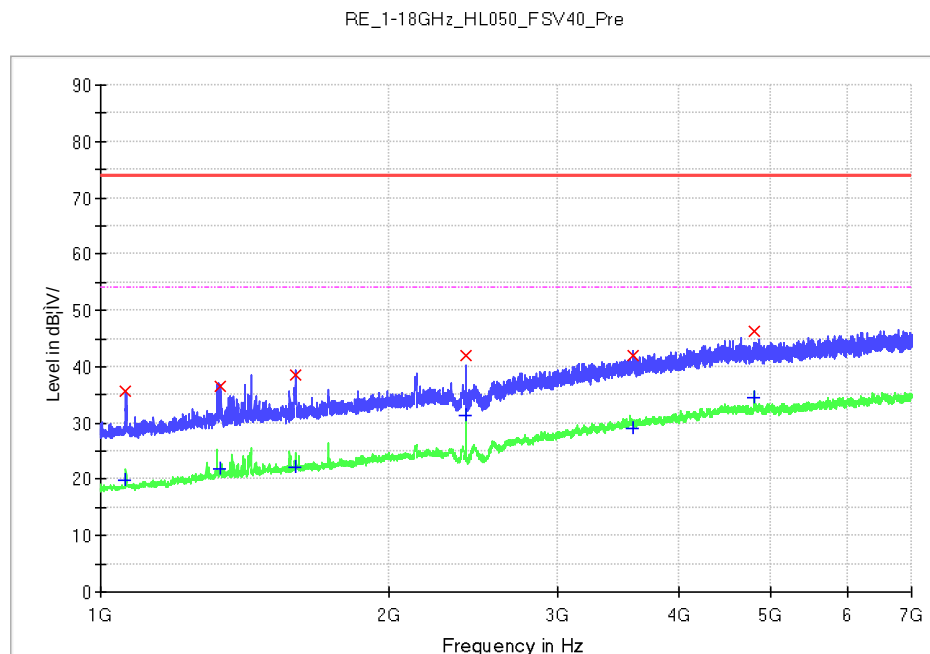
Date of testing	:	28.07.2020
Ambient temperature	:	23.2°C
Relative humidity	:	38.5%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.209(a) FCC Part 15.247(d) RSS-247 Issue 2, February 2017, Clause 5.5 RSS-Gen Issue 5, Amendment 1, March 2019, Clause 8.9
Test procedure	:	KDB 558074 D01v05r02 ANSI C63.10: 2013
Test voltage	:	DC 12V
Test modes applied	:	TM1 to TM3
Kind of test site	:	3m Anechoic Chamber

Figure 24: Radiated Spurious Emission, TM1, 30MHz to 1GHz, H

Table 17: Radiated Spurious Emission, TM1, 30MHz to 1GHz, H

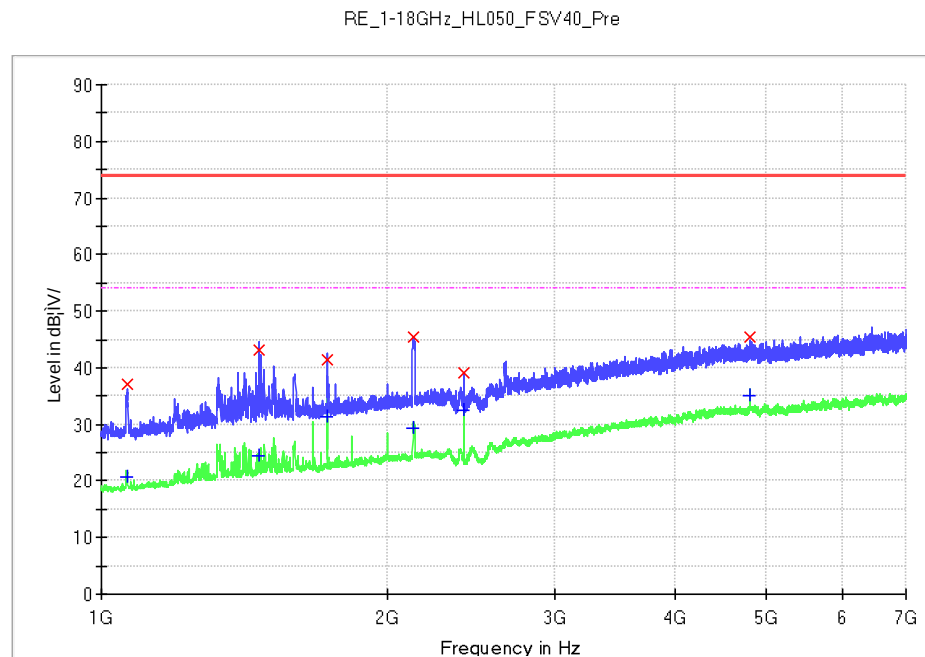
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
63.950000	28.3	H	12.8	11.7	40.0
127.970000	36.1	H	18.7	7.4	43.5
191.990000	31.2	H	15.9	12.3	43.5
256.010000	34.9	H	20.1	11.1	46.0
319.908750	33.1	H	20.6	12.9	46.0
383.928750	31.0	H	22.0	15.0	46.0

Figure 25: Radiated Spurious Emission, TM1, 30MHz to 1GHz, V

Table 18: Radiated Spurious Emission, TM1, 30MHz to 1GHz, V

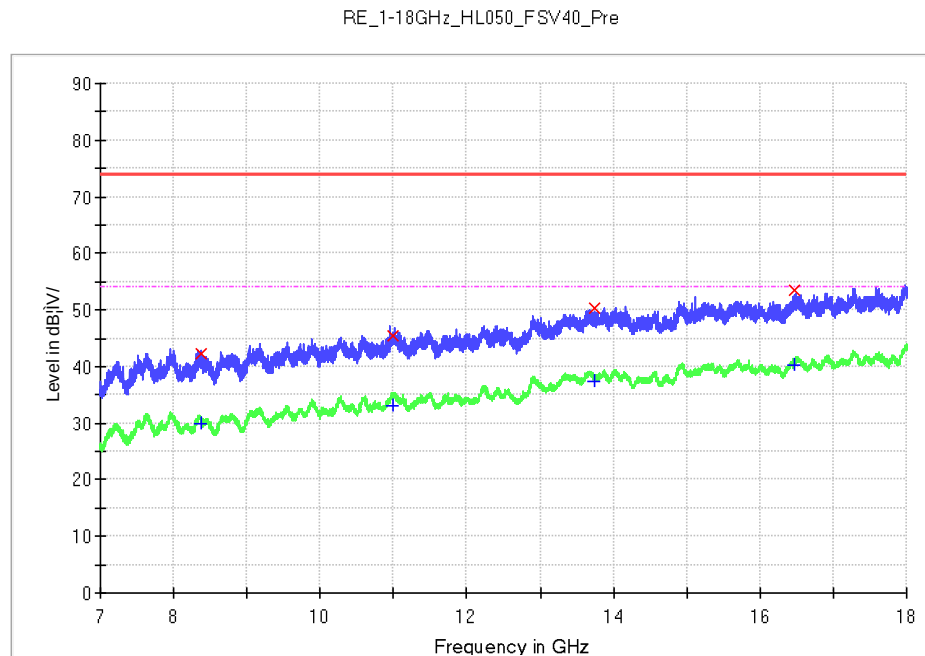
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.727500	23.1	V	25.0	16.9	40.0
63.950000	25.6	V	12.8	14.4	40.0
127.970000	33.2	V	18.7	10.3	43.5
262.557500	17.3	V	20.7	28.7	46.0
505.542500	21.1	V	24.9	24.9	46.0
811.941250	24.6	V	27.5	21.4	46.0

Figure 26: Radiated Spurious Emission, TM1, 1GHz to 7GHz, H

Table 19: Radiated Spurious Emission, TM1, 1GHz to 7GHz, H

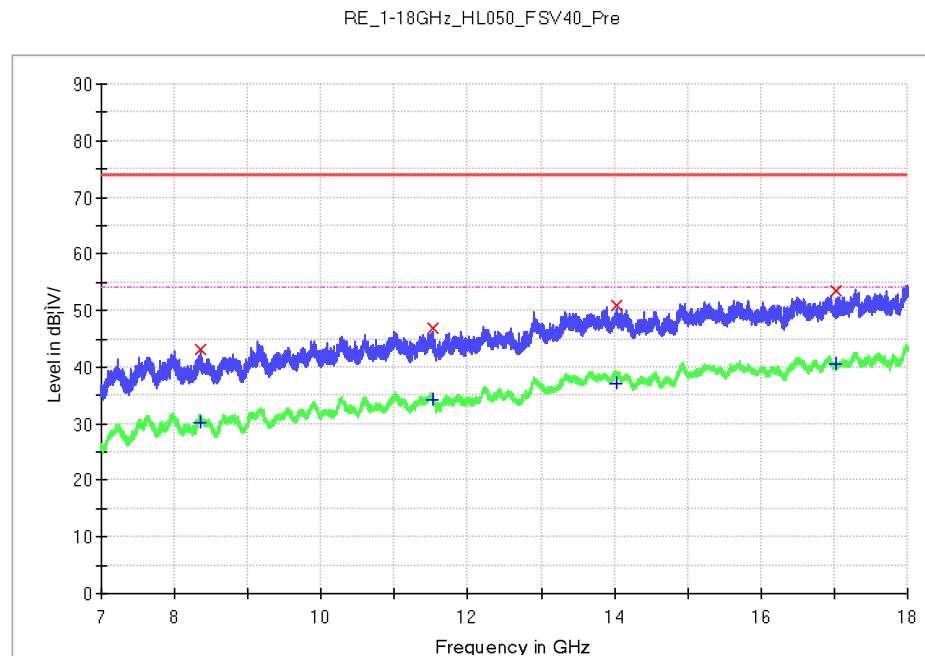
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1062.500000	35.6	H	-22.1	38.4	74.0
1335.000000	36.4	H	-20.2	37.6	74.0
1598.500000	38.5	H	-18.3	35.5	74.0
2402.000000	41.9	H	-14.5	32.1	74.0
3584.500000	42.1	H	-9.3	31.9	74.0
4804.000000	46.4	H	-6.5	27.6	74.0

Figure 27: Radiated Spurious Emission, TM1, 1GHz to 7GHz, V

Table 20: Radiated Spurious Emission, TM1, 1GHz to 7GHz, V

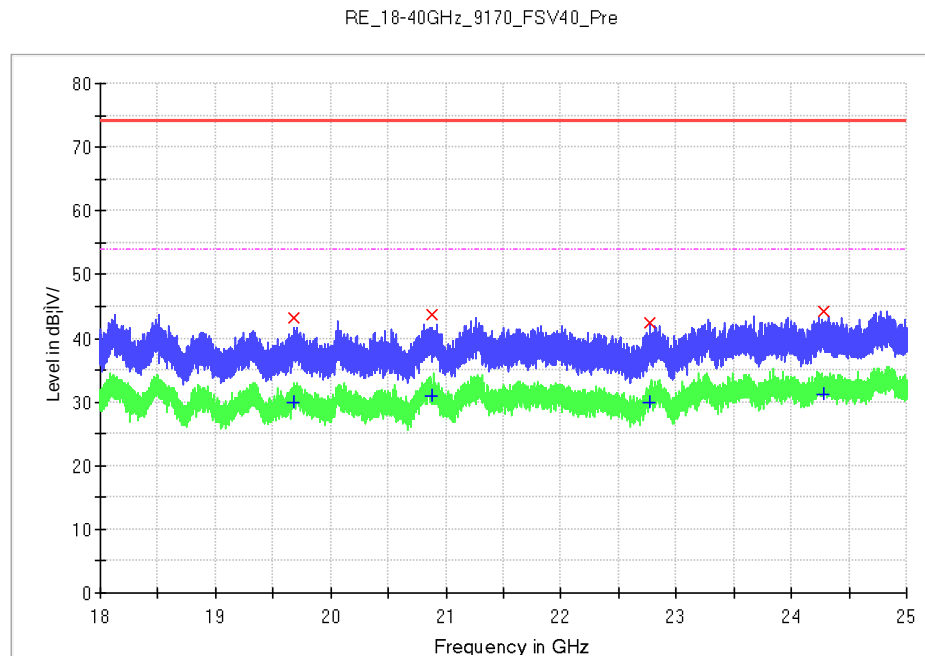
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1063.500000	37.2	V	-22.1	36.8	74.0
1466.500000	43.2	V	-19.2	30.8	74.0
1727.500000	41.3	V	-17.7	32.7	74.0
2124.500000	45.3	V	-15.8	28.7	74.0
2402.000000	39.1	V	-14.5	34.9	74.0
4804.000000	45.5	V	-6.5	28.5	74.0

Figure 28: Radiated Spurious Emission, TM1, 7GHz to 18GHz, H

Table 21: Radiated Spurious Emission, TM1, 7GHz to 18GHz, H

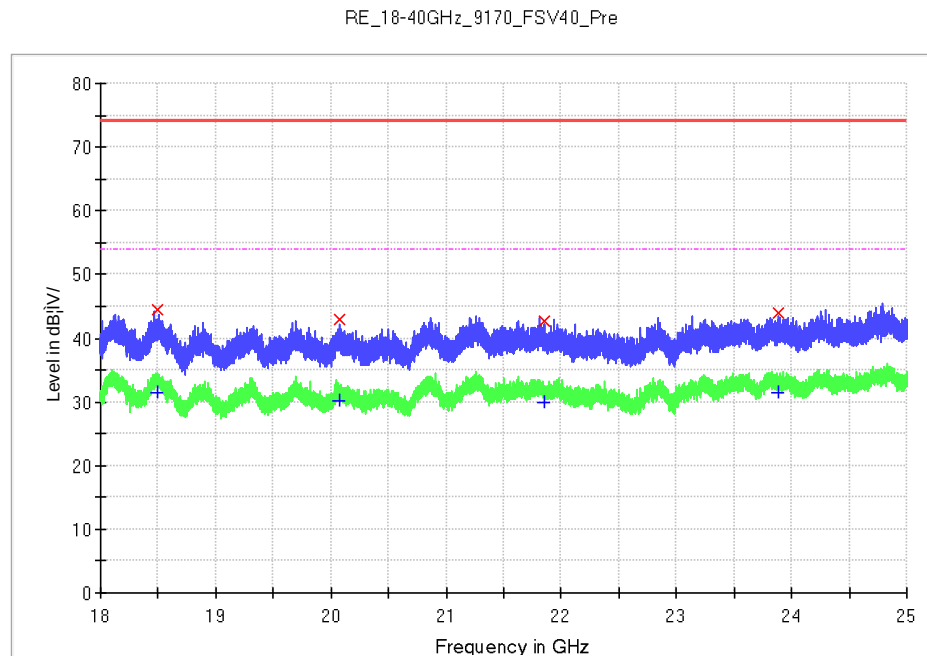
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8386.000000	42.3	H	-2.5	31.7	74.0
10994.833333	45.5	H	1.0	28.5	74.0
13732.916667	50.4	H	3.4	23.6	74.0
16475.583333	53.5	H	7.3	20.5	74.0

Figure 29: Radiated Spurious Emission, TM1, 7GHz to 18GHz, V

Table 22: Radiated Spurious Emission, TM1, 7GHz to 18GHz, V

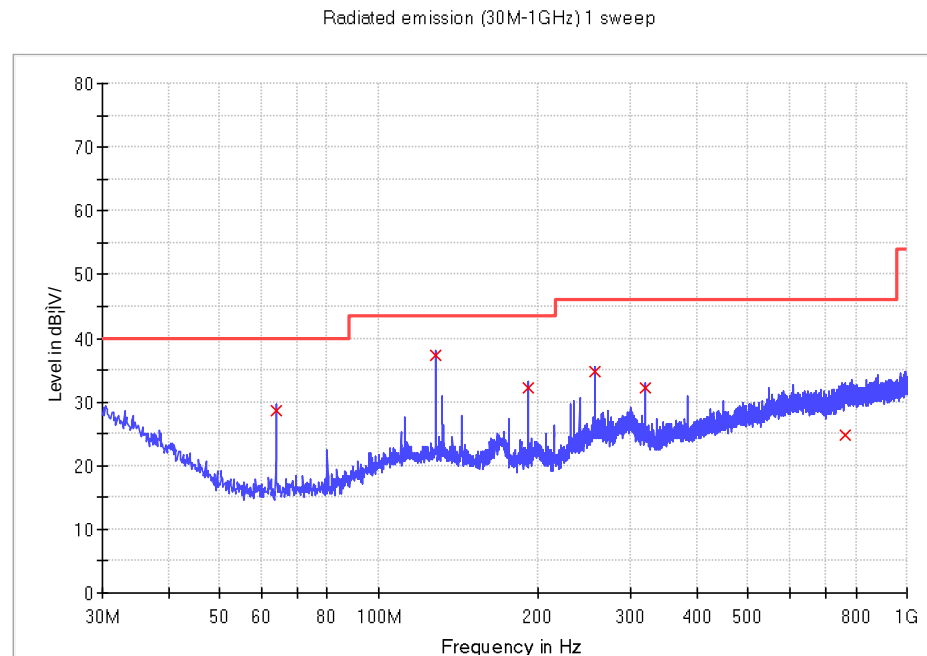
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8748.083333	42.9	V	-1.6	31.1	74.0
11019.583333	46.2	V	1.0	27.8	74.0
13815.416667	51.3	V	3.7	22.7	74.0
16493.916667	53.3	V	7.4	20.7	74.0

Figure 30: Radiated Spurious Emission, TM1, 18GHz to 25GHz, H

Table 23: Radiated Spurious Emission, TM1, 18GHz to 25GHz, H

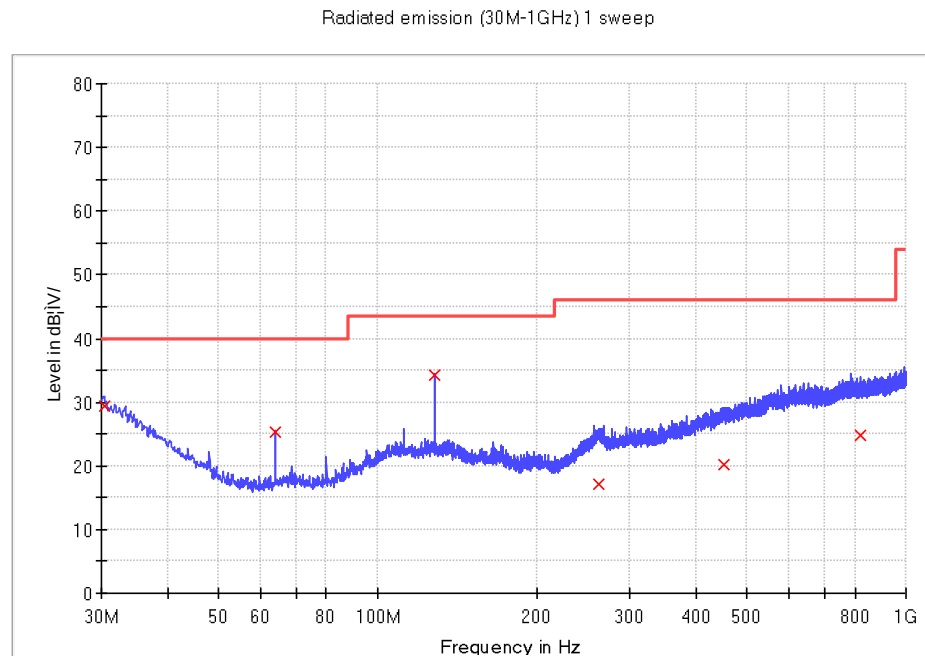
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
19680.656250	43.2	H	-8.6	30.8	74.0
20873.281250	43.7	H	-7.2	30.3	74.0
22775.750000	42.3	H	-6.1	31.7	74.0
24282.500000	44.3	H	-4.0	29.7	74.0

Figure 31: Radiated Spurious Emission, TM1, 18GHz to 25GHz, V

Table 24: Radiated Spurious Emission, TM1, 18GHz to 25GHz, V

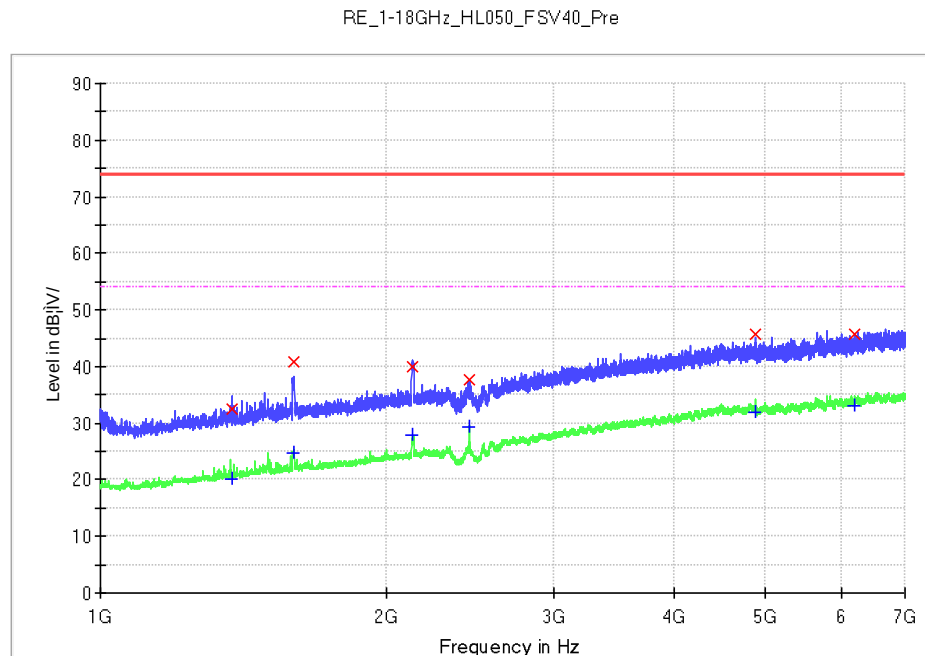
Frequency (MHz)	QuasiPeak (dBμV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
18490.656250	44.6	V	-9.2	29.4	74.0
20079.656250	43.0	V	-7.7	31.0	74.0
21857.656250	42.6	V	-5.9	31.4	74.0
23886.781250	44.1	V	-4.2	29.9	74.0

Figure 32: Radiated Spurious Emission, TM2, 30MHz to 1GHz, H

Table 25: Radiated Spurious Emission, TM2, 30MHz to 1GHz, H

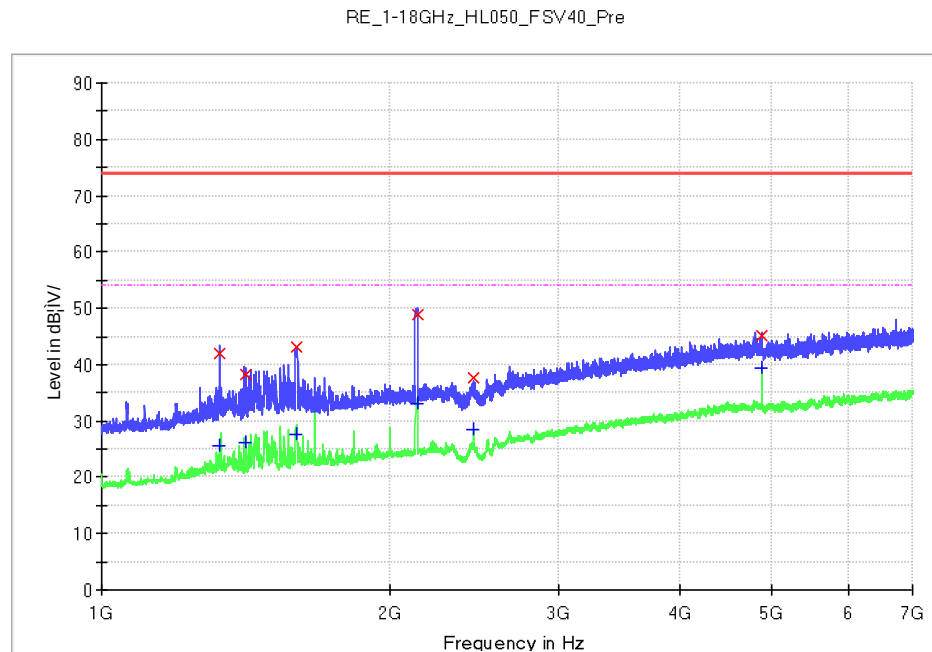
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
63.950000	28.6	H	12.8	11.4	40.0
127.970000	37.2	H	18.7	6.3	43.5
191.990000	32.3	H	15.9	11.2	43.5
256.010000	34.7	H	20.1	11.3	46.0
320.030000	32.1	H	20.6	13.9	46.0
763.562500	24.8	H	27.3	21.2	46.0

Figure 33: Radiated Spurious Emission, TM2, 30MHz to 1GHz, V

Table 26: Radiated Spurious Emission, TM2, 30MHz to 1GHz, V

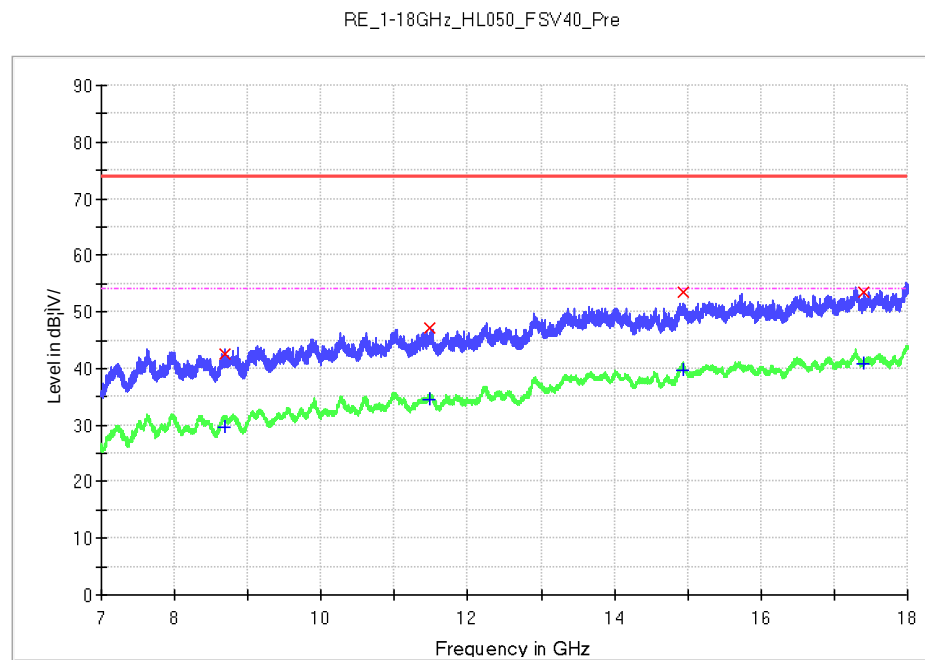
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	29.3	V	25.2	10.7	40.0
64.071250	25.3	V	12.8	14.7	40.0
127.970000	34.2	V	18.7	9.3	43.5
262.315000	17.2	V	20.7	28.8	46.0
452.798750	20.2	V	24.2	25.8	46.0
818.610000	24.9	V	27.5	21.1	46.0

Figure 34: Radiated Spurious Emission, TM2, 1GHz to 7GHz, H

Table 27: Radiated Spurious Emission, TM2, 1GHz to 7GHz, H

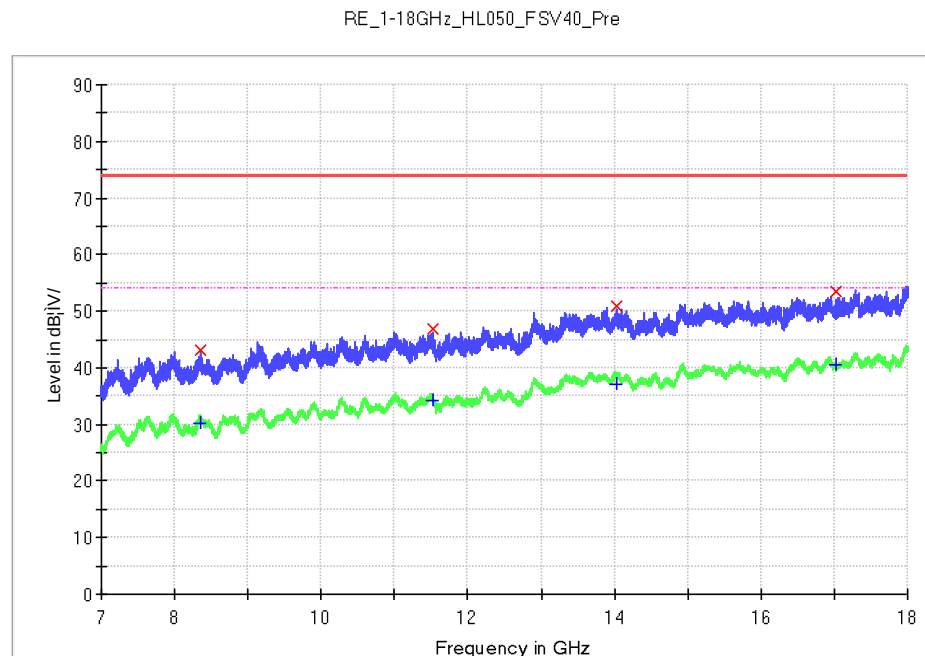
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1373.500000	32.4	H	-19.9	41.6	74.0
1594.000000	40.8	H	-18.4	33.2	74.0
2129.000000	40.1	H	-15.7	33.9	74.0
2440.000000	37.6	H	-14.3	36.4	74.0
4879.500000	45.7	H	-6.5	28.3	74.0
6195.500000	45.6	H	-5.4	28.4	74.0

Figure 35: Radiated Spurious Emission, TM2, 1GHz to 7GHz, V

Table 28: Radiated Spurious Emission, TM2, 1GHz to 7GHz, V

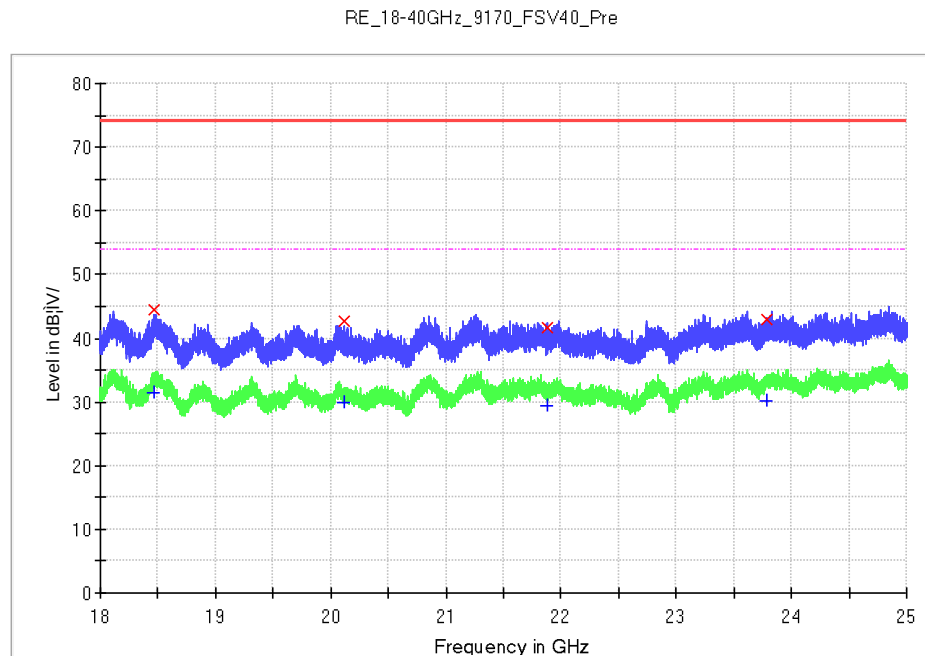
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1326.500000	42.1	V	-20.2	31.9	74.0
1413.000000	38.1	V	-19.6	35.9	74.0
1599.500000	43.2	V	-18.3	30.8	74.0
2132.500000	48.9	V	-15.7	25.1	74.0
2440.000000	37.5	V	-14.3	36.5	74.0
4880.000000	45.0	V	-6.5	29.0	74.0

Figure 36: Radiated Spurious Emission, TM2, 7GHz to 18GHz, H

Table 29: Radiated Spurious Emission, TM2, 7GHz to 18GHz, H

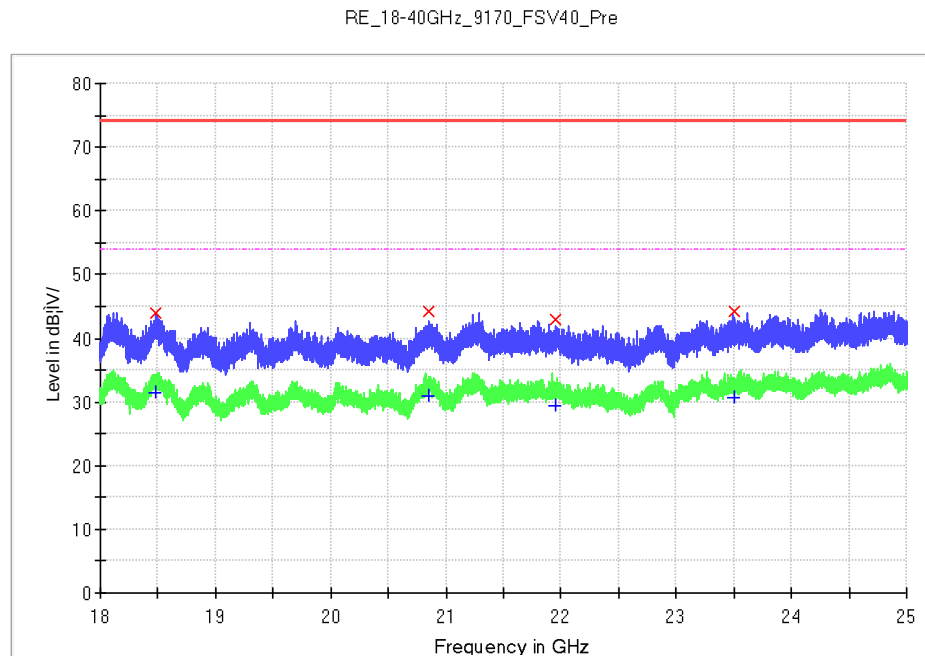
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8683.000000	42.4	H	-1.8	31.6	74.0
11471.500000	47.0	H	1.3	27.0	74.0
14940.166667	53.4	H	5.7	20.6	74.0
17406.916667	53.5	H	8.2	20.5	74.0

Figure 37: Radiated Spurious Emission, TM2, 7GHz to 18GHz, V

Table 30: Radiated Spurious Emission, TM2, 7GHz to 18GHz, V

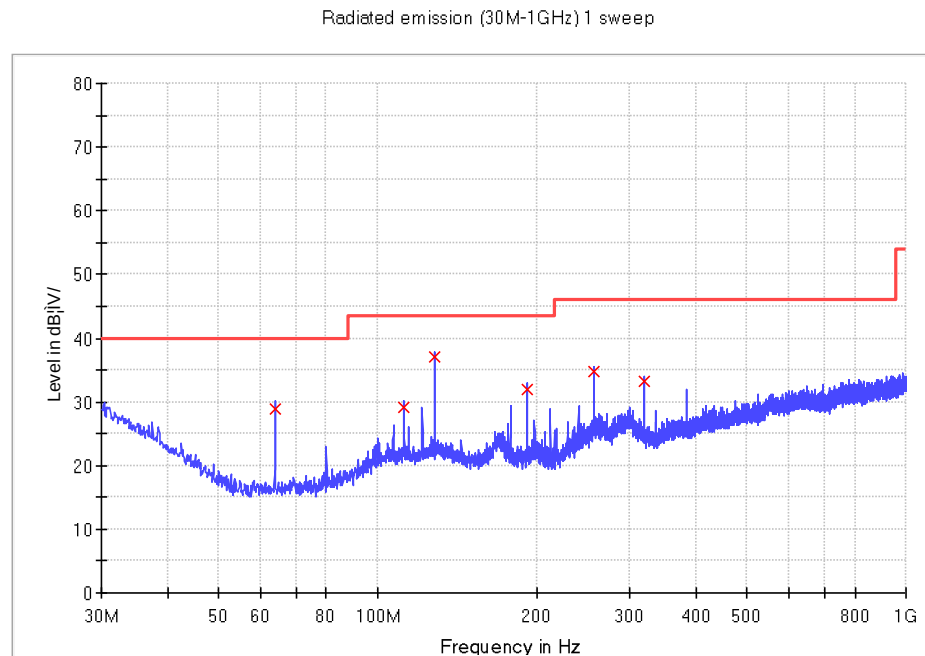
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8346.583333	43.0	V	-2.6	31.0	74.0
11517.333333	46.9	V	1.6	27.1	74.0
14030.833333	50.8	V	4.5	23.2	74.0
17021.916667	53.5	V	7.5	20.5	74.0

Figure 38: Radiated Spurious Emission, TM2, 18GHz to 25GHz, H

Table 31: Radiated Spurious Emission, TM2, 18GHz to 25GHz, H

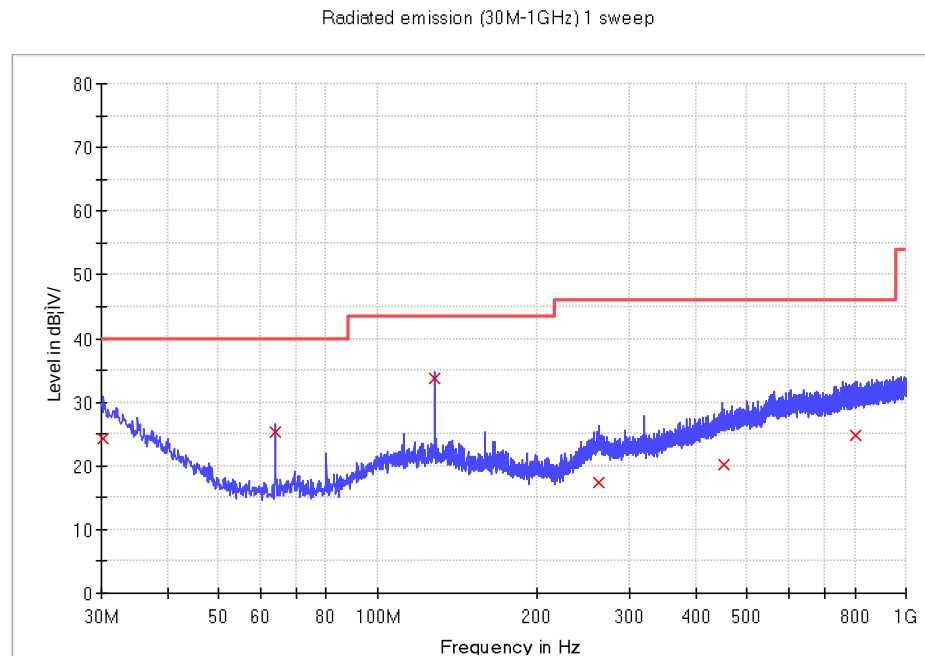
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
18471.843750	44.4	H	-9.2	29.6	74.0
20114.000000	42.8	H	-7.7	31.2	74.0
21884.125000	41.7	H	-5.9	32.3	74.0
23789.437500	43.0	H	-4.2	31.0	74.0

Figure 39: Radiated Spurious Emission, TM2, 18GHz to 25GHz, V

Table 32: Radiated Spurious Emission, TM2, 18GHz to 25GHz, V

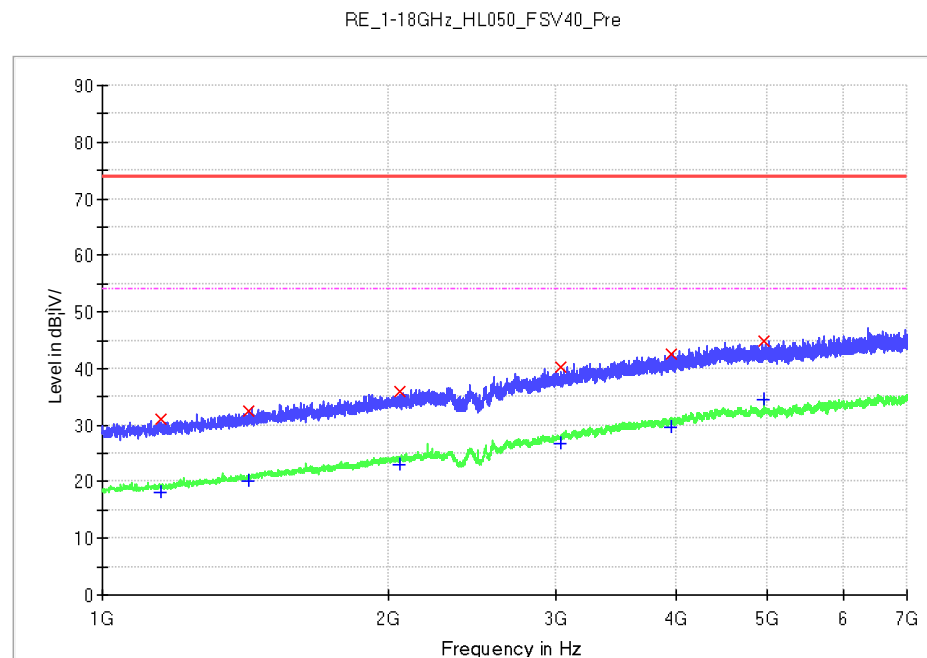
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
18480.593750	44.1	V	-9.2	29.9	74.0
20849.218750	44.1	V	-7.3	29.9	74.0
21957.406250	42.8	V	-5.9	31.2	74.0
23499.375000	44.1	V	-4.2	29.9	74.0

Figure 40: Radiated Spurious Emission, TM3, 30MHz to 1GHz, H

Table 33: Radiated Spurious Emission, TM3, 30MHz to 1GHz, H

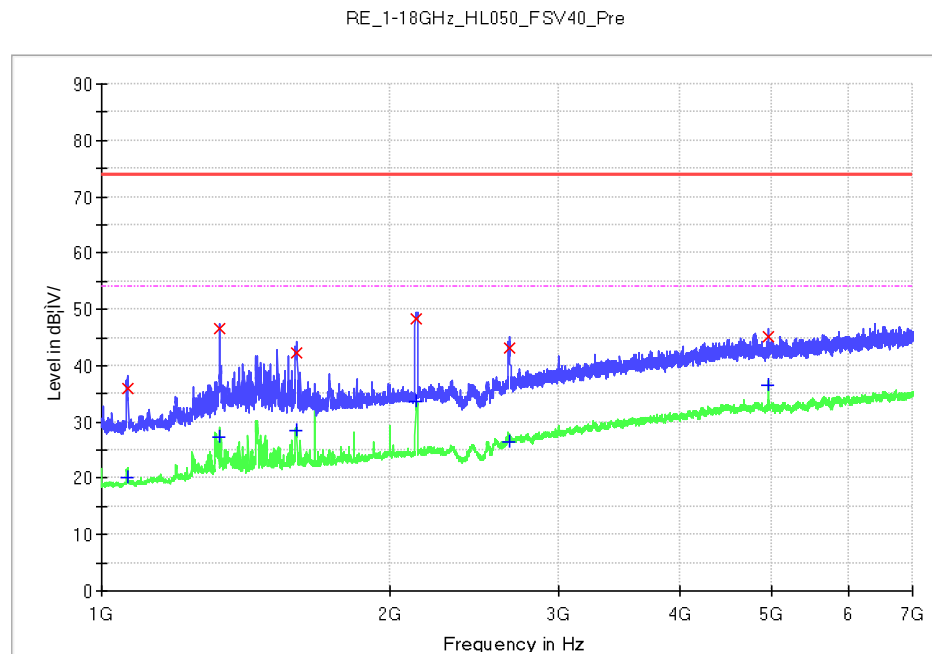
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
63.950000	28.9	H	12.8	11.1	40.0
111.965000	29.1	H	18.5	14.4	43.5
127.970000	37.0	H	18.7	6.5	43.5
191.990000	32.0	H	15.9	11.5	43.5
256.010000	34.8	H	20.1	11.2	46.0
320.030000	33.1	H	20.6	12.9	46.0

Figure 41: Radiated Spurious Emission, TM3, 30MHz to 1GHz, V

Table 34: Radiated Spurious Emission, TM3, 30MHz to 1GHz, V

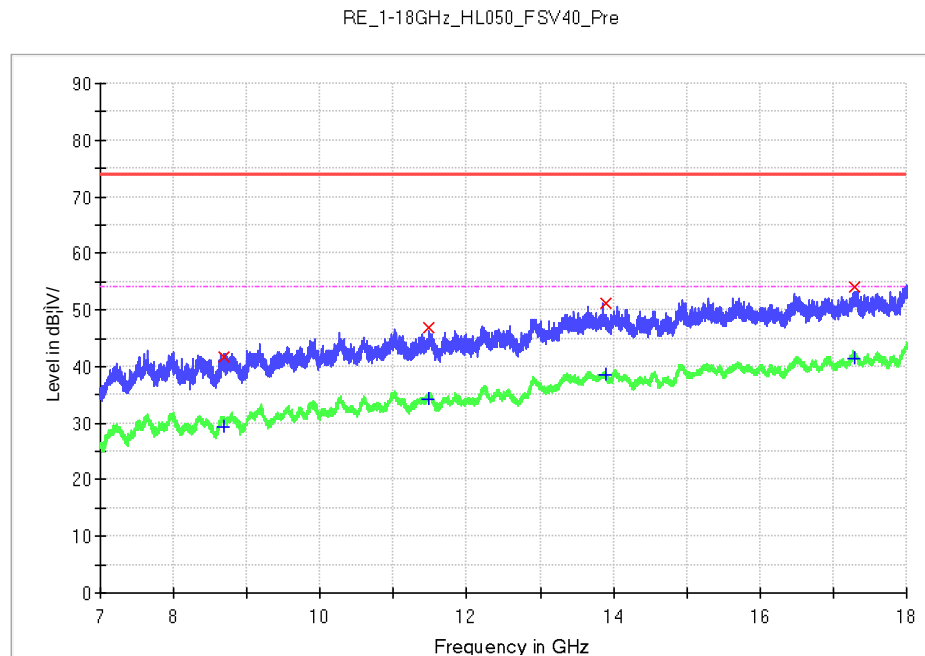
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.242500	24.3	V	25.3	15.7	40.0
63.950000	25.4	V	12.8	14.6	40.0
127.970000	33.7	V	18.7	9.8	43.5
261.830000	17.3	V	20.7	28.7	46.0
450.980000	20.1	V	24.2	25.9	46.0
802.483750	24.9	V	27.4	21.1	46.0

Figure 42: Radiated Spurious Emission, TM3, 1GHz to 7GHz, H

Table 35: Radiated Spurious Emission, TM3, 1GHz to 7GHz, H

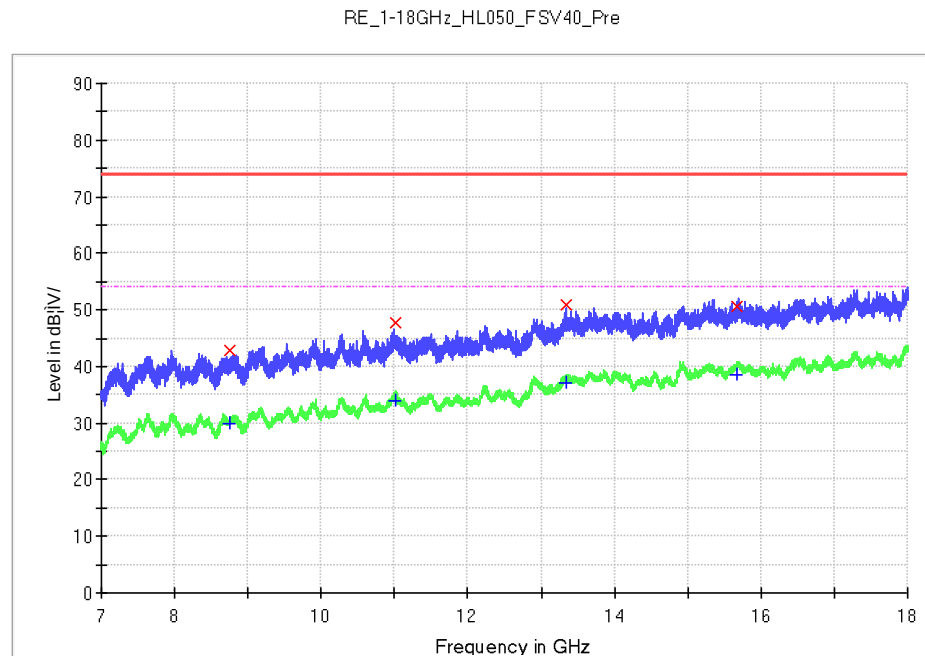
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1150.500000	31.1	H	-21.5	42.9	74.0
1427.000000	32.5	H	-19.5	41.5	74.0
2050.500000	35.9	H	-16.0	38.1	74.0
3029.000000	40.2	H	-11.6	33.8	74.0
3952.000000	42.6	H	-8.5	31.4	74.0
4960.000000	44.8	H	-6.6	29.2	74.0

Figure 43: Radiated Spurious Emission, TM3, 1GHz to 7GHz, V

Table 36: Radiated Spurious Emission, TM3, 1GHz to 7GHz, V

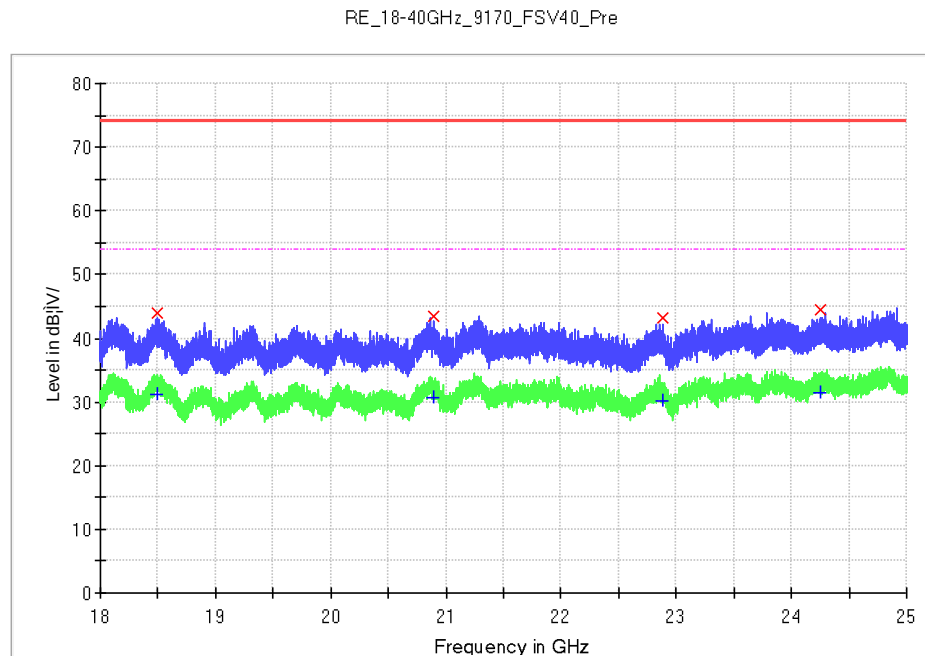
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
1063.000000	36.1	V	-22.1	37.9	74.0
1328.000000	46.5	V	-20.2	27.5	74.0
1596.500000	42.3	V	-18.3	31.7	74.0
2128.000000	48.3	V	-15.7	25.7	74.0
2658.000000	43.0	V	-13.3	31.0	74.0
4959.500000	45.2	V	-6.6	28.8	74.0

Figure 44: Radiated Spurious Emission, TM3, 7GHz to 18GHz, H

Table 37: Radiated Spurious Emission, TM3, 7GHz to 18GHz, H

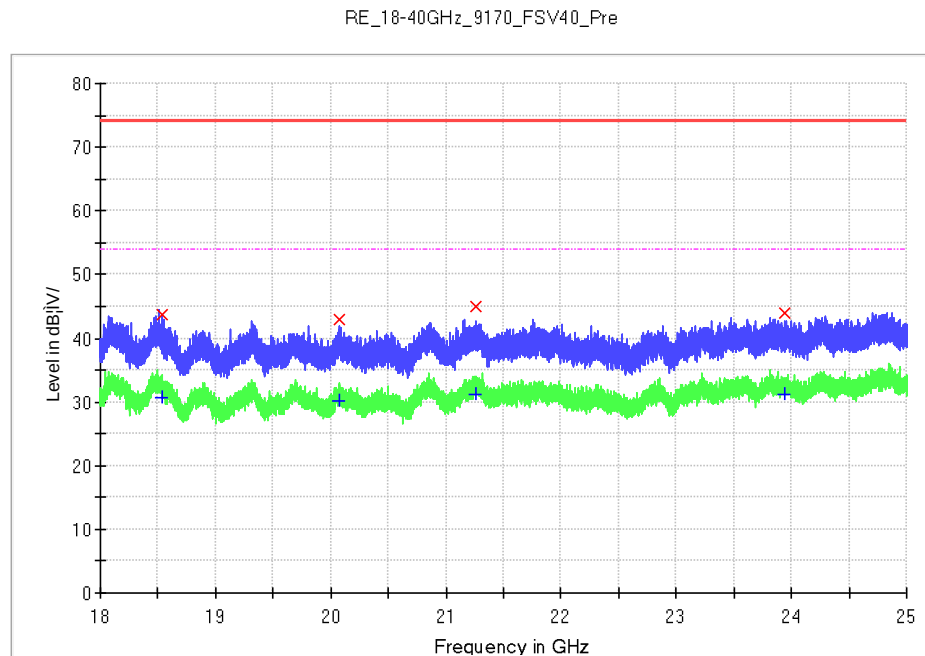
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8681.166667	41.8	H	-1.8	32.2	74.0
11478.833333	46.8	H	1.4	27.2	74.0
13895.166667	51.2	H	4.5	22.8	74.0
17290.500000	54.2	H	8.9	19.8	74.0

Figure 45: Radiated Spurious Emission, TM3, 7GHz to 18GHz, V

Table 38: Radiated Spurious Emission, TM3, 7GHz to 18GHz, V

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
8761.833333	42.8	V	-1.6	31.2	74.0
11023.250000	47.8	V	0.9	26.2	74.0
13337.833333	50.8	V	3.1	23.2	74.0
15667.083333	50.6	V	6.5	23.4	74.0

Figure 46: Radiated Spurious Emission, TM3, 18GHz to 25GHz, H

Table 39: Radiated Spurious Emission, TM3, 18GHz to 25GHz, H

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
18500.718750	44.0	H	-9.3	30.0	74.0
20888.156250	43.5	H	-7.2	30.5	74.0
22882.500000	43.3	H	-5.8	30.7	74.0
24258.000000	44.5	H	-4.1	29.5	74.0

Figure 47: Radiated Spurious Emission, TM3, 18GHz to 25GHz, V

Table 40: Radiated Spurious Emission, TM3, 18GHz to 25GHz, V

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
18539.437500	43.6	V	-9.3	30.4	74.0
20078.562500	43.0	V	-7.7	31.0	74.0
21262.218750	45.0	V	-6.4	29.0	74.0
23944.968750	43.9	V	-4.2	30.1	74.0

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