

FCC TEST REPORT

Test report No.: EMC- FCC- R0243
FCC ID: YZP-REBEMZ42A
Type of equipment: Electronic Shelf Label
Model Name: REBE-MZ42A
Applicant: LG Innotek Co., Ltd.
Max.RF Output Power: 2.06 dBm
FCC Rule Part(s): FCC Part 15 Subpart C 15.247
Frequency Range: 2 405 MHz ~ 2 480 MHz
Test result: Complied

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations.

The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of receipt: 2015. 04. 28

Date of test: 2015. 05. 04 ~ 05. 07

Issued date: 2015. 05. 11

Tested by: 

KIM, TAE YOUNG

Approved by: 

SON, MIN GI

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1. Client information

Applicant: LG Innotek Co., Ltd.
Address: (Jangduk-dong) 26, Hanamsandan 5beon-ro, Gwangsan-gu,
Gwangju, 506-731, Korea
Telephone number: +82-62-950-0332
Facsimile number: +82-303-5300-0563
Contact person: In Chang Jeong / ic.jeong@lginnotek.com

Manufacturer: SUZHOU NIHONE Electronics Technology Co.LTD
Address: No.185 XiaoXiang Road Suzhou High tech Zone

2. Laboratory information

Address

EMC compliance Ltd.

480-5, Sin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

Telephone Number: 82-31-336-9919 Facsimile Number: 82-505-299-8311

Certificate

KOLAS No.: 231

FCC Site Designation No: KR0040

FCC Site Registration No: 687132

VCCI Site Registration No.: R-3327, G-198, C-3706, T-1849

IC Site Registration No.:8035A-2

SITE MAP



EMC compliance Ltd.

480-5, Sin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

82-31-336-9919 (Main) 82-505-299-8311 (Fax)

3. Description of E.U.T.

3.1 Basic description

Applicant:	LG Innotek Co., Ltd.
Address of Applicant	(Jangduk-dong) 26, Hanamsandan 5beon-ro, Gwangsan-gu, Gwangju, 506-731, Korea
Manufacturer	SUZHOU NIHONE Electronics Technology Co.LTD
Address of Manufacturer	No.185 XiaoXiang Road Suzhou High tech Zone
Type of equipment	Electronic Shelf Label
Basic Model	REBE-MZ42A
Serial number	N/A

3.2 General description

Frequency Range	2 405 MHz ~ 2 480 MHz
Type of Modulation	O-QPSK
Number of Channels	16 ch
Type of Antenna	PCB Pattern Antenna
Antenna Gain	-1.35 dBi
Transmit Power	2.06 dBm
Power supply	DC 3 V
Product SW/HW Version	0.1b
Radio SW/HW Version	N/A
Test SW Version	SmartRF Studio 7
RF power setting in TEST SW	4.5 dBm

3.3 Test frequency

	Channel	Frequency
Low frequency	11	2 405 MHz
Middle frequency	18	2 440 MHz
High frequency	26	2 480 MHz

3.4 Test Voltage

mode	Voltage
Norminal voltage	DC 3 V

4. Summary of test results

4.1 Standards & results

FCC Rule Reference	IC Rule Reference	Parameter	Report Section	Test Result
15.203, 15.247(b)(4)	-	Antenna Requirement	5.1	C
15.247(b)(3)	RSS-210, A8.4(2)	Maximum Peak Output Power	5.2	C
15.247(e)	RSS-210, A8.2(b)	Peak Power Spectral Density	5.3	C
15.247(a)(2)	RSS-210, A8.2(a)	6 dB Channel Bandwidth	5.4	C
-	RSS-GEN, 6.6	Occupied Bandwidth	5.4	C
15.247(d), 15.205(a), 15.209(a)	RSS-210, A8.5 RSS-GEN, 8.9,10	Spurious Emission, Band Edge, and Restricted bands	5.5	C
15.207(a)	RSS-GEN, 8.8	Conducted Emissions	5.6	N/A ₁₎

Note: C = complies
NC = Not complies
NT = Not tested
NA = Not Applicable

N/A₁₎ : This test is not applicable because the EUT uses battery and it's not to be connected to the public utility(AC) power line.

4.2 Uncertainty

Measurement Item	Expanded Uncertainty $U = KU_c$ (K = 2)	
Conducted RF power	± 1.36 dB	
Conducted Spurious Emissions	± 1.52 dB	
Radiated Spurious Emissions	30 MHz ~ 300 MHz:	+ 4.94 dB, - 5.06 dB
		+ 4.93 dB, - 5.05 dB
	300 MHz ~ 1 000 MHz:	+ 4.97 dB, - 5.08 dB
		+ 4.84 dB, - 4.96 dB
	1 GHz ~ 25 GHz:	+ 6.03 dB, - 6.05 dB
Conducted Emissions	9 kHz ~ 150 kHz:	± 3.75 dB
	150 kHz ~ 30 MHz:	± 3.36 dB

5. Test results

5.1 Antenna Requirement

5.1.1 Regulation

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1.2 Result

-Complied

The transmitter has a PCB Pattern type of antenna. The directional peak gain of the antenna is -1.35 dBi.

5.2 Maximum Peak Output Power

5.2.1 Regulation

According to §15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2 400-2 483.5 MHz, and 5 725-5 850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

According to §15.247(b)(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.2.2 Measurement Procedure

These test measurement settings are specified in section 9.0 of 558074 D01 DTS Meas Guidance.

5.2.2.1 PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

5.2.3 Test Result

-Complied

Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Avarage Power (dBm)
Lowest	2 405	2.06	30.00	27.94	1.64
Middle	2 440	1.96	30.00	28.04	1.48
Highest	2 480	1.66	30.00	28.34	1.24

-NOTE:

1. Since the directional gain of the PCB antenna declared by the manufacturer ($G_{ANT} = -1.35$ dBi), does not exceed 6.0 dBi , there was no need to reduce the output power.
We took the insertion loss of the cable loss into consideration within the measuring instrument

5.3 Peak Power Spectral Density

5.3.1 Regulation

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

5.3.2 Measurement Procedure

These test measurement settings are specified in section 10.0 of 558074 D01 DTS Meas Guidance.

5.3.2.1 Method PKPSD (peak PSD)

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

- 1) Set analyzer center frequency to DTS channel center frequency.
- 2) Set the span to 1.5 times the DTS bandwidth.
- 3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4) Set the VBW $\geq 3 \times \text{RBW}$.
- 5) Detector = peak.
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3.3 Test Result

-Complied

Channel	Result [dBm]	Limit [dBm]	Margin [dBm]
Lowest	-1.51	8.00	9.51
Middle	-1.77	8.00	9.77
Highest	-1.89	8.00	9.89

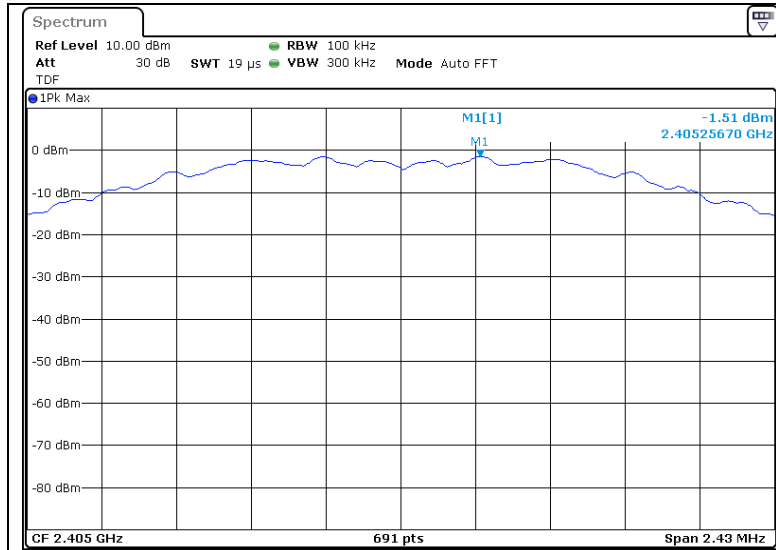
-NOTE:

1. Since the directional gain of the Embedded antenna declared by the manufacturer (GANT =-1.35 dBi), does not exceed 6.0 dBi, there was no need to reduce the power spectral density.
2. We took the insertion loss of the cable loss into consideration within the measuring instrument.

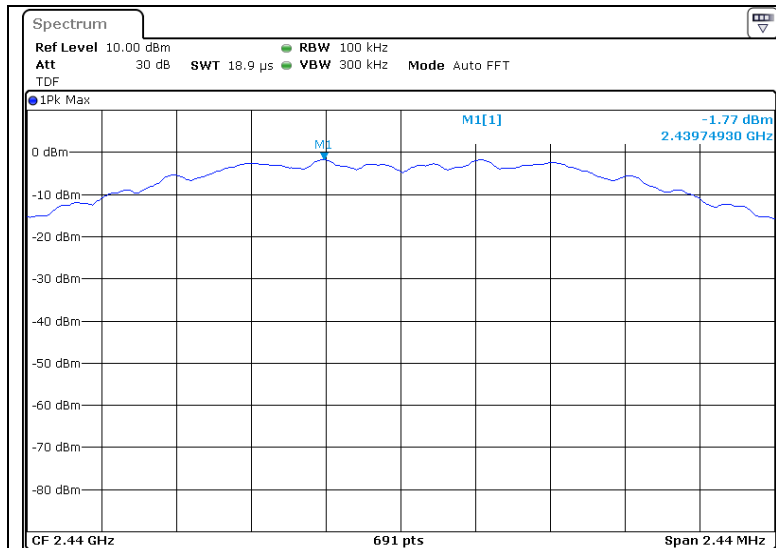
5.3.4 Test Plot

Figure 1. Plot of the Power Density

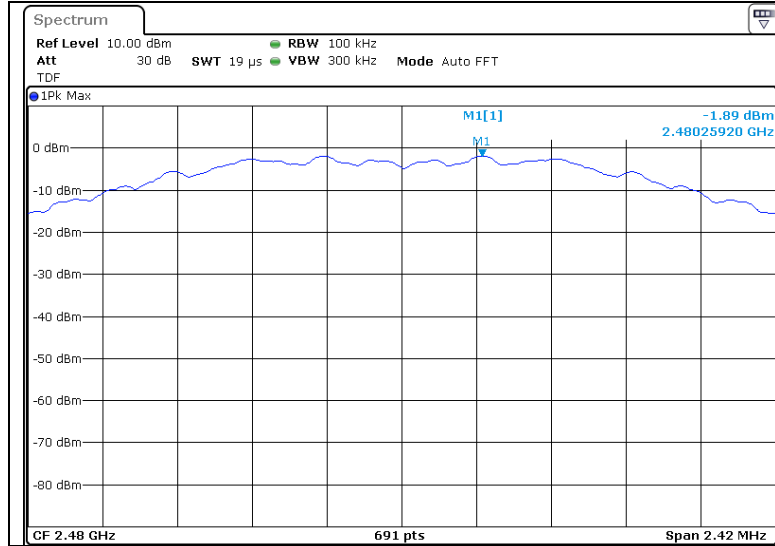
Lowest Channel (2 405 MHz)



Middle Chnnel (2 440 MHz)



Highest Chnnel (2 480 MHz)



5.4 6 dB Bandwidth(DTS Channel Bandwidth)

5.4.1 Regulation

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 MHz, 2 400–2 483.5 MHz, and 5 725–5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.4.2 Measurement Procedure

These test measurement settings are specified in section 8.0 of 558074 D01 DTS Meas Guidance.

5.4.2.1 DTS Channel Bandwidth-Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4.2.2 DTS Channel Bandwidth Measurement Procedure-Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.4.3 Test Result

-Complied

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Min. Limit (MHz)	Occupied Bandwidth (99 % BW) (MHz)
Low	2 405	1.62	0.5	2.58
Middle	2 440	1.63	0.5	2.57
High	2 480	1.61	0.5	2.57

-NOTE:

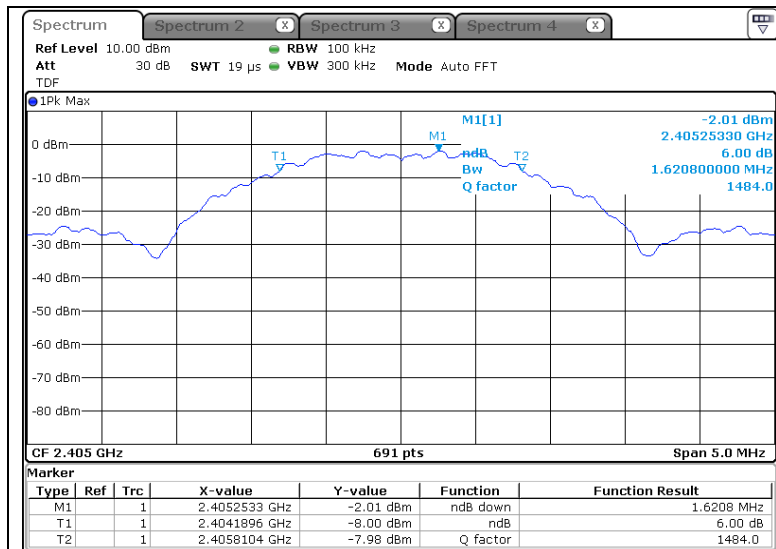
1. We took the insertion loss of the cable loss into consideration within the measuring instrument.

5.4.4 Test Plot

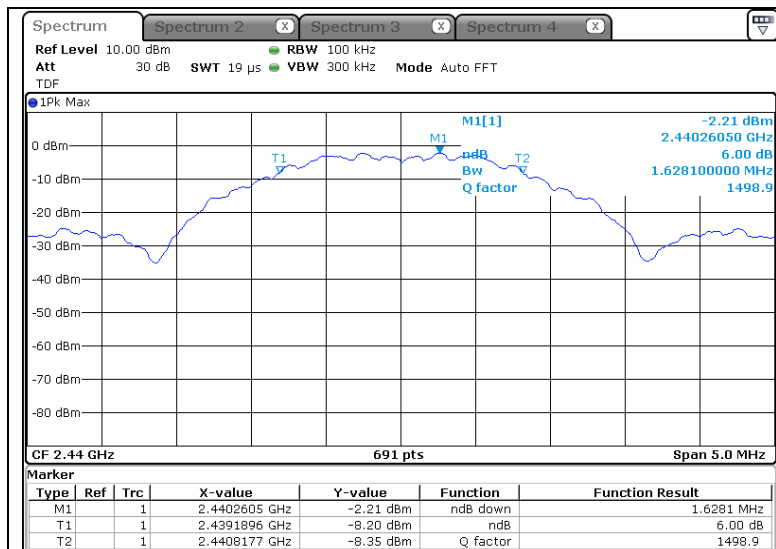
Figure 2. Plot of the 6dB Bandwidth & Occupied Bandwidth

*** 6 dB Bandwidth**

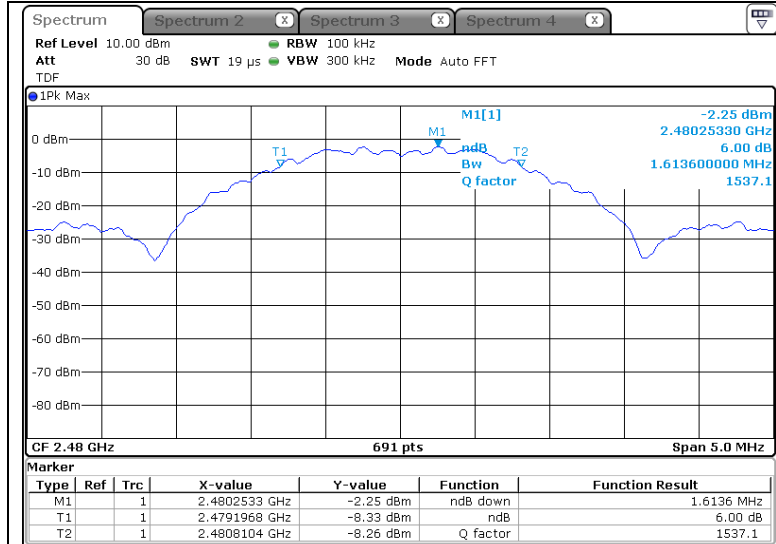
Lowest Channel (2 405 MHz)



Middle Channel (2 440 MHz)

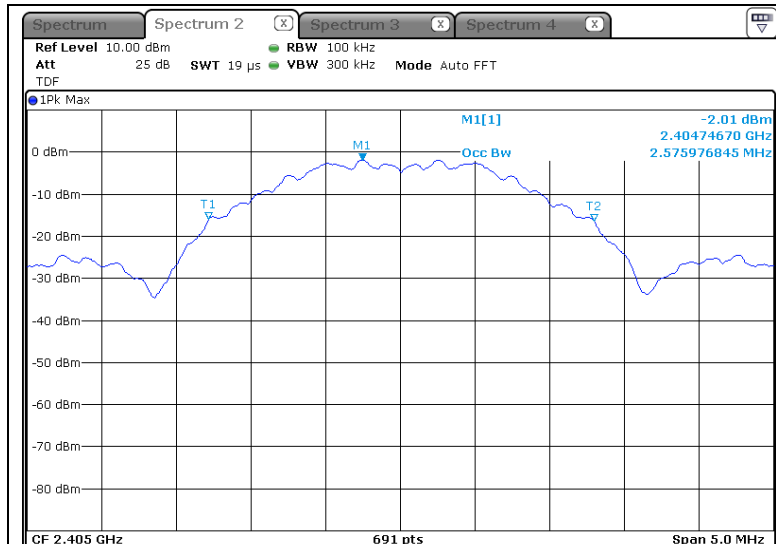


Highest Channel (2 480 MHz)

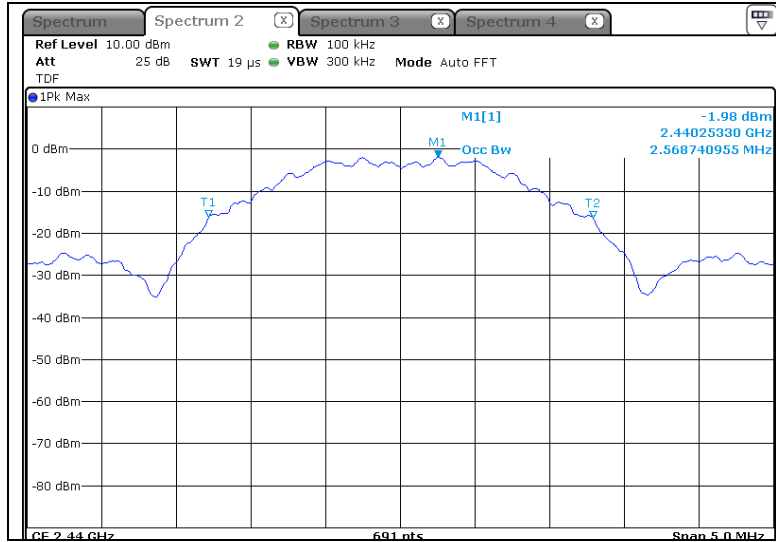


*** Occupied Bandwidth**

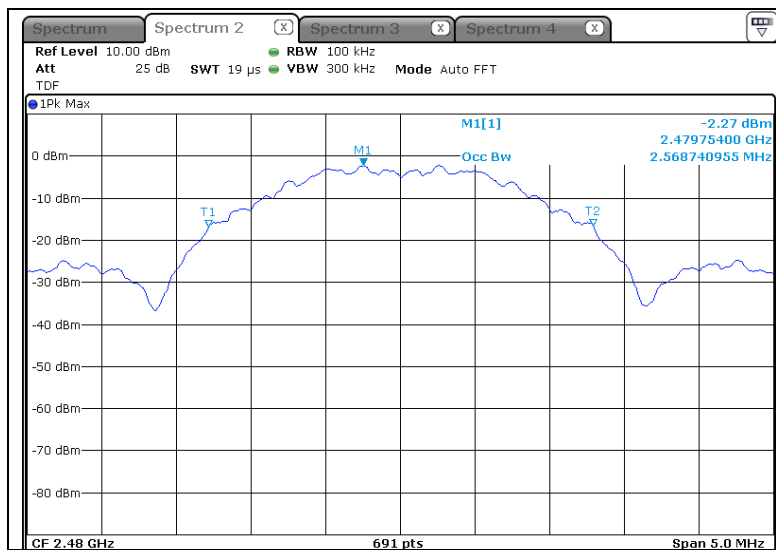
Lowest Channel (2 405 MHz)



Middle Channel (2 440 MHz)



Highest Channel (2 480 MHz)



5.5 Spurious Emission, Band Edge, and Restricted bands

5.5.1 Regulation

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

According to §15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

According to § 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525 25	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	156.7 - 156.9	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	162.012 5 - 167.17	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	240 - 285	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	322 - 335.4	3 600 - 4 400	Above 38.6
13.36 - 13.41			

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

5.5.2 Measurement Procedure

5.5.2.1 Band-edge Compliance of RF Conducted Emissions

5.5.2.1.1 Reference Level Measurement

Establish a reference level by using the following procedure:

- 1) Set instrument center frequency to DTS channel center frequency.
- 2) Set the span to ≥ 1.5 times the DTS bandwidth.
- 3) Set the RBW = 100 kHz.
- 4) Set the VBW $\geq 3 \times$ RBW.
- 5) Detector = peak.
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum PSD level.

5.5.2.1.2 Emissions Level Measurement

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz.
- 3) Set the VBW $\geq 3 \times$ RBW.
- 4) Detector = peak.
- 5) Ensure that the number of measurement points \geq span/RBW
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.5.2.2 Conducted Spurious Emissions

Set the spectrum analyzer as follows:

- 1) Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.
Typically, several plots are required to cover this entire span.
- 2) RBW = 100 kHz
- 3) VBW \geq RBW
- 4) Sweep = auto
- 5) Detector function = peak
- 6) Trace = max hold
- 7) Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 8) Each frequency found during preliminary measurements was re-examined and investigated.
The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

5.5.2.3 Radiated Spurious Emissions

- 1) The preliminary and final radiated measurements were performed to determine the frequency producing the maximum emissions in a 10m anechoic chamber. The EUT was tested at a distance 3 meters.
- 2) The EUT was placed on the top of the 0.8-meter height, 1 × 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
- 3) The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, and from 30 to 1 000 MHz using the TRILOG broadband antenna, and from 1 000 MHz to 26 500 MHz using the horn antenna.
- 4) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

Note

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz.
The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz ($\geq 1/T$) for Average detection (AV) at frequency above 1 GHz. (where T = pulse width)

5.5.3 Test Result

-Complied

1. Band-edge & Conducted Spurious Emissions was shown in figure 3.
Note: We took the insertion loss of the cable into consideration within the measuring instrument.
2. Measured value of the Field strength of spurious Emissions (Radiated)

*** Below 1 GHz data (worst-case: Lowest channel (2 405 MHz))**

*** Lowest channel (2 405 MHz)**

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Quasi-Peak DATA. Emissions below 30 MHz (3 m Distance)							
Below 30.00	Not Detected	-	-	-	-	-	-
Quasi-Peak DATA. Emissions below 1 GHz							
Below 1 000.00	Not Detected	-	-	-	-	-	-

*** Above 1 GHz data**

Lowest channel (2 405 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
* 2 388.50	1 000	H	42.4	2.8	0	45.2	74.0	28.8
7 213.13	1 000	H	42.5	15.6	0	58.1	74.0	15.9
Above 8 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
* 2 388.50	1 000	H	42.4	2.8	-34.0	11.2	54.0	42.8
7 213.13	1 000	H	42.5	15.6	-34.0	24.1	54.0	29.9
Above 8 000.00	Not Detected	-	-	-	-	-	-	-

* This Asterisk means restricted band.

Middle channel (2 440 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
7 321.88	1 000	H	41.4	16.1	0	57.5	74.0	16.5
Above 8 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
7 321.88	1 000	H	41.4	16.1	-34.0	23.5	54.0	30.5
Above 8 000.00	Not Detected	-	-	-	-	-	-	-

Highest channel (2 475 MHz)

Frequency [MHz]	Receiver Bandwidth [kHz]	Pol. [V/H]	Reading [dB(μ V)]	Factor [dB]	DCCF [dB]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]
Peak DATA. Emissions above 1 GHz								
* 2 483.50	1 000	H	63.8	3.2	0	67.0	74.0	7.0
Above 3 000.00	Not Detected	-	-	-	-	-	-	-
Average DATA. Emissions above 1 GHz								
* 2 483.50	1 000	H	63.8	3.2	-34.0	33.0	54.0	21.0
Above 3 000.00	Not Detected	-	-	-	-	-	-	-

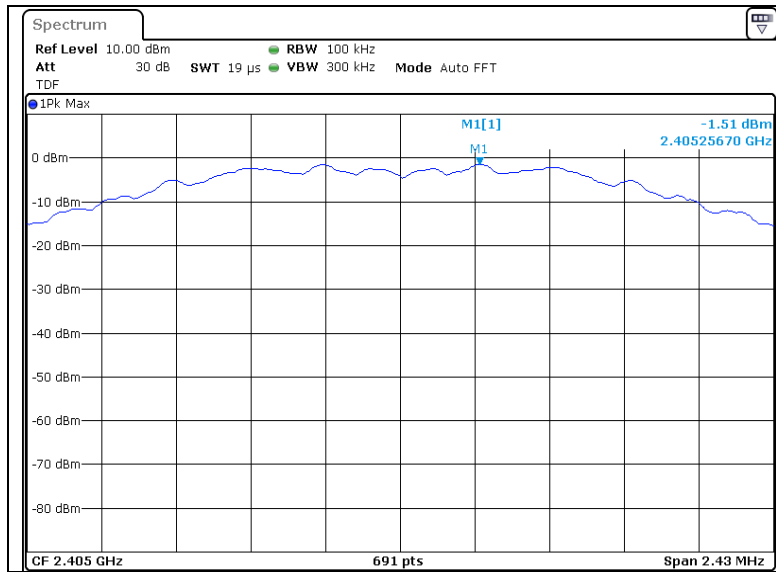
* This Asterisk means restricted band.

5.5.4 Test Plot

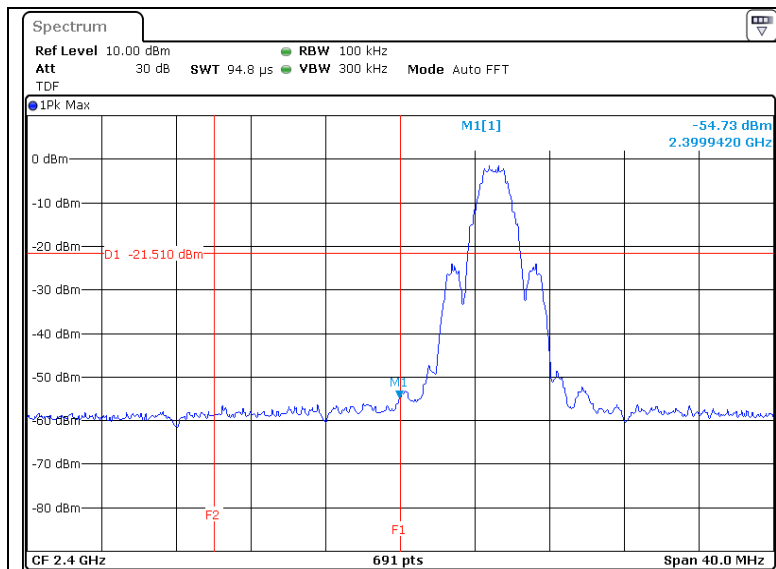
Figure 3. Plot of the Band-edge & Conducted Spurious Emissions

Lowest Channel (2 405 MHz)

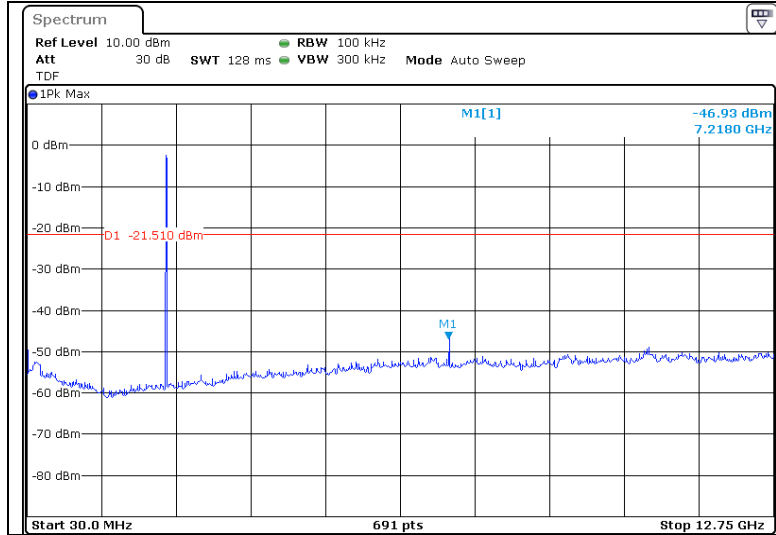
Reference



Bend-edge

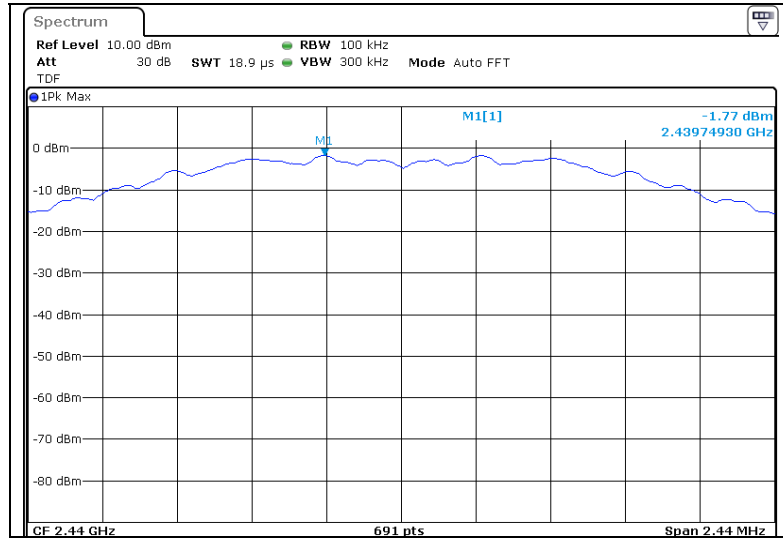


Conducted Spurious Emissions

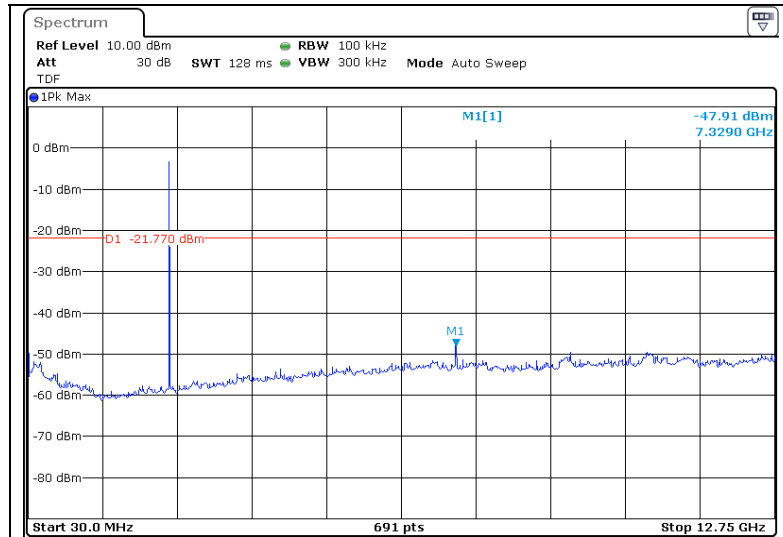


Middle Channel (2 440 MHz)

Reference

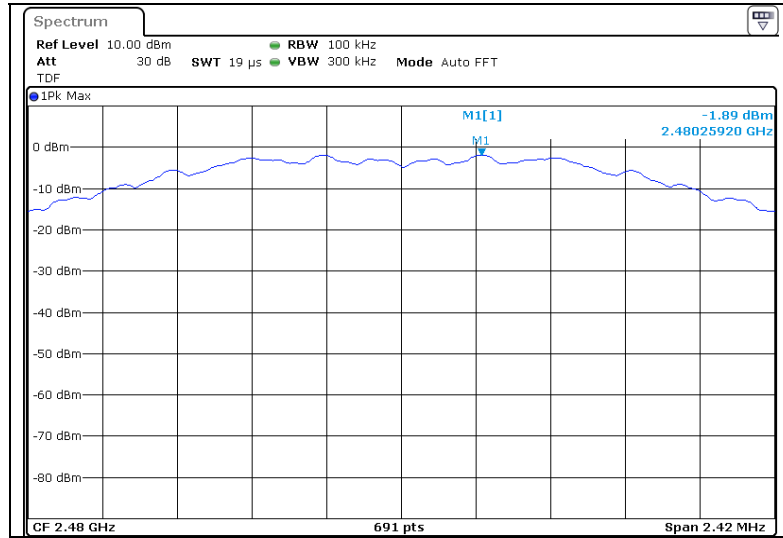


Conducted Spurious Emissions

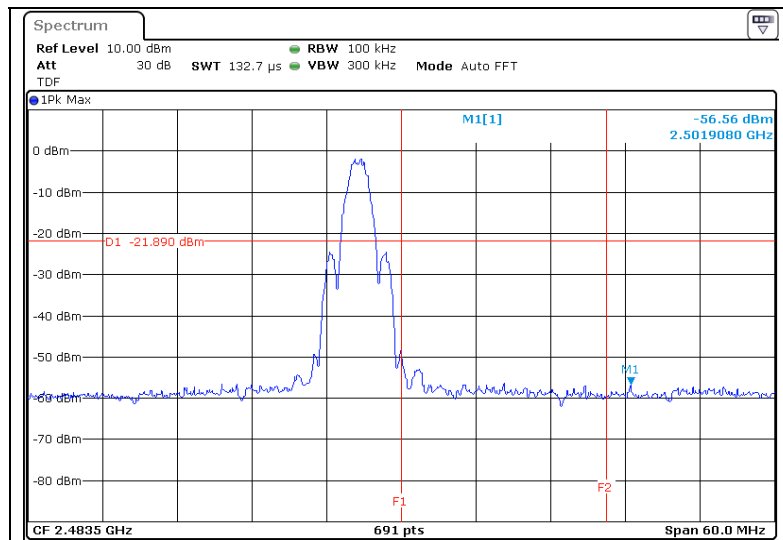


Highest Channel (2 480 MHz)

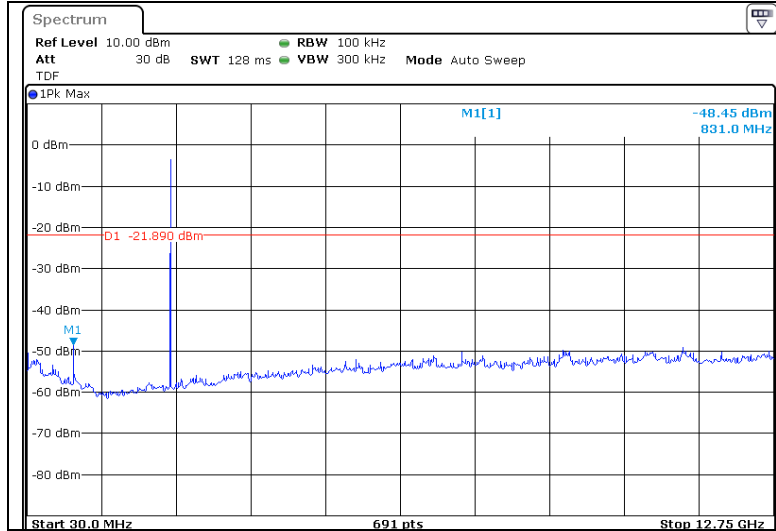
Reference



Bend-edge



Conducted Spurious Emissions



6. Test equipment used for test

	Description	Manufacture	Model No.	Serial No.	Next Cal Date.
■	Amplifier	SONOMA INSTRUMENT	310	293004	15.09.25
■	Attenuator	HP	MY52460424	8491A	15.07.23
■	Antenna Mast	Innco Systems	MA4000-EP	-	-
■	Turn Table	Innco Systems	DT2000	-	
■	Bi-Log Antenna	SCHWARZBECK	VULB9163	552	16.06.14
■	Loop Antenna	R&S	HFH2-Z2	100355	15.06.19
■	Horn Antenna	ETS.lindgren	3115	62589	15.10.16
■	Horn Antenna	ETS.lindgren	3116	86632	15.10.20
■	Broadband Preamplifier	SCHWARZBECK	BBV9718	216	15.08.12
■	Broadband Preamplifier	SCHWARZBECK	BBV9721	2	15.05.09
■	Spectrum Analyzer	R&S	FSV40	100989	16.01.26
■	Signal Generator	R&S	SMB 100A	176206	16.03.10
■	DC Power Supply	AGILENT	E3632A	MY40004399	16.01.06
■	Wideband Power Sensor	R&S	NRP-Z81	102398	15.11.27