FCC - TEST REPORT

Report Number	:	**709502400285-01B**	Date of Issue:	August 22, 2025

Model	:	STORM S2, STORM S1, STORM S3, STORM S6 STORM S3 R, STORM S6 R
Product Type	:	STORM Series Thermal Imaging Scope
Applicant	:	Visir Inc.
Address	:	700 International Pkwy, Ste 102, Richardson, TX 75081
Manufacturer	:	Visir Inc.
Address	:	700 International Pkwy, Ste 102, Richardson, TX 75081

Test Result	:	■ **Positive** ☐ **Negative**
Total pages including Appendices	:	47

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1 Table of Contents

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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
709502400285-00B	First Issue	04/01/2024
709502400285-01B	Amendment 1: Two new models STORM S3 R and STORM S6 R were added, the address changed. The capacity of the battery is changed to 3800mAh, Additional partial tests were performed.	08/22/2025

3 Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China
Telephone:	+86 21 6141 0123
Fax:	+86 21 6140 8600
FCC Registration No.:	820234
FCC Designation Number:	CN1183
ISED CAB identifier	CN0101
IC Registration No.:	31668

4 Description of the Equipment under Test

Product:	STORM Series Thermal Imaging Scope
Model no.:	STORM S2, STORM S1, STORM S3, STORM S6 STORM S3 R, STORM S6 R
FCC ID:	2A7ZZ-5A-03
Options and accessories:	NA
Hardware Version:	V1.2
Software Version:	250731
Rating:	3.6V DC (rechargeable lithium-ion battery) External power supply 5V (type C)
RF Transmission Frequency:	For 802.11b/g/n-HT20: 2412~2462 MHz
No. of Operated Channel:	

802.11b/g/n(HT20)			
Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

Modulation:	For 2.4GHz WIFI: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n
Antenna Type:	FPC antenna
Antenna Gain:	0.5dBi
Description of the EUT:	The EUT was a STORM Series Thermal Imaging Scope which has Wi-Fi, We tested it and listed the worst data in this report.
Test sample no.:	SHA-920723-1 (RF Radiated)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.

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5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2023 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

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6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	13-16	Site 1	☒	☐	☐
§15.247 (b) (3)	Conducted peak output power	Refer to clause 7	Site 1	☒	☐	☐
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	---	---	☐	☐	☒
§15.247(a)(1)	Carrier frequency separation	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	---	---	☐	☐	☒
§15.247(a)(2)	6dB bandwidth	Refer to clause 7	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	Refer to clause 7	Site 1	☒	☐	☐
§15.247(e)	Spurious RF conducted emissions	Refer to clause 7	Site 1	☒	☐	☐
§15.247(d)	Band edge	Refer to clause 7	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	19-53	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.
Note 1: The EUT uses a FPC antenna, gain is 0.5dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

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7 General Remarks

Remarks

NOTICE: This report is a SUPPLEMENT OF Report 709502400285-00A. So this report is not valid without the report of 709502400285-00A.

The EUT is a STORM Series Thermal Imaging Scope which support 2.4G Wi-Fi function. According to client's declaration, two new models STORM S3 R and STORM S6 R are added, The new models (STORM S3 R/STORM S6 R) are the addition of laser ranging. Meanwhile, there are minor changes to the main control board, including: 1. An additional ranging interface has been added, and 2. An overvoltage protection chip has been included next to the TYPE-C connector. Additionally, the battery has been changed, and the model has been updated to BP-03 with a capacity of 3800mAh.
So, in this test report only test data of, "Conducted emission AC power port ", "Conducted peak output power" and "Spurious radiated emissions for transmitter" were new data, other test data were quoted from report 709502400285-00B and the test data are still effective.

The address is changed from (39899 Balentine Drive STE 200 Newark, CA 94560) to (700 International Pkwy, Ste 102, Richardson, TX 75081)

This submittal(s) (test report) is intended for FCC ID: 2A7ZZ-5A-03 complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

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SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: August 8, 2025

Testing Start Date: August 8, 2025

Testing End Date: August 9, 2025

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:	Prepared by:	Tested by:
Jiaxi XU	YongqingZHENG	Doujun Xu
Jiaxi XU Review Engineer	Yongqing ZHENG Project Engineer	Doujun XU Test Engineer

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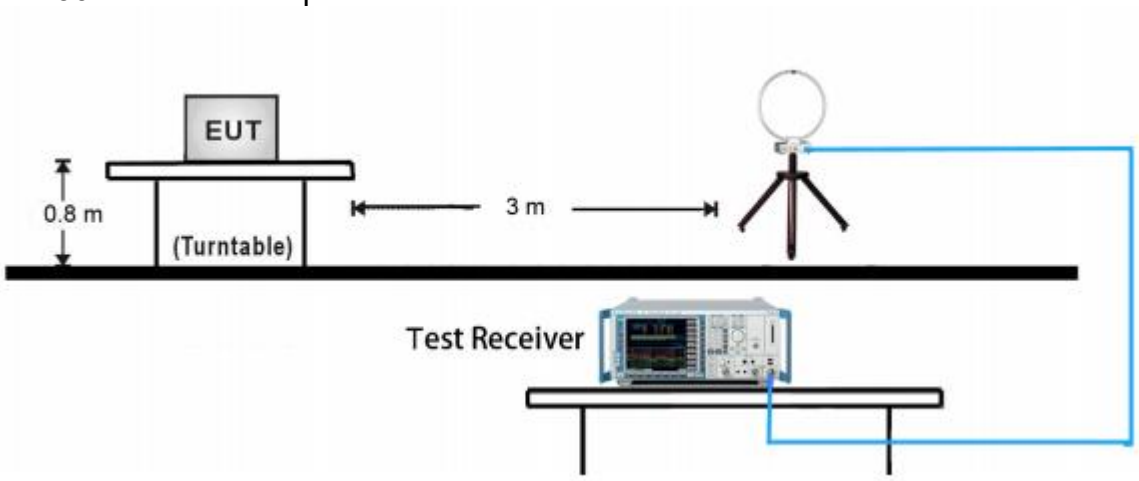
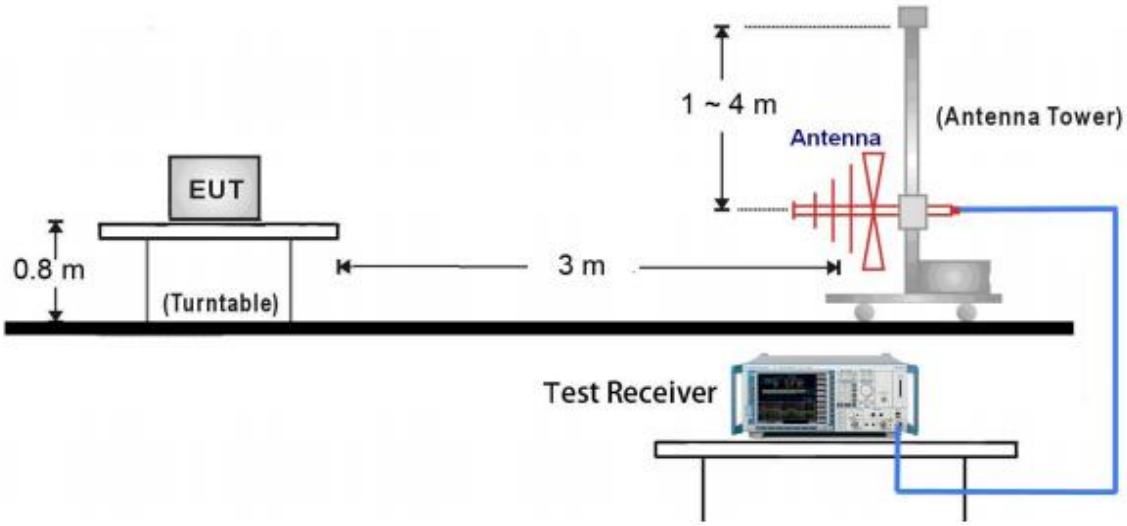
8 Test Setups

8.1 Radiated test setups

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



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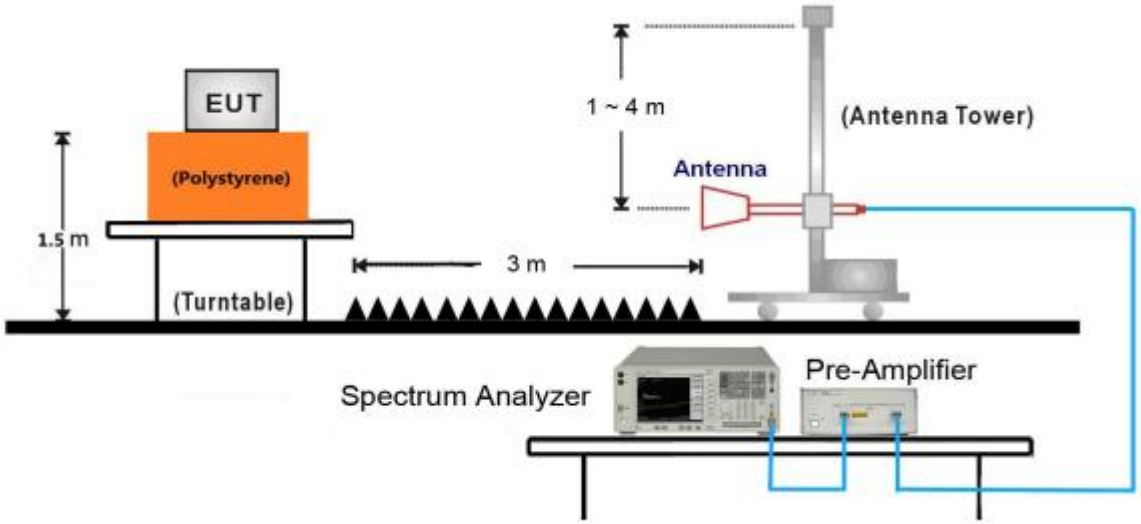
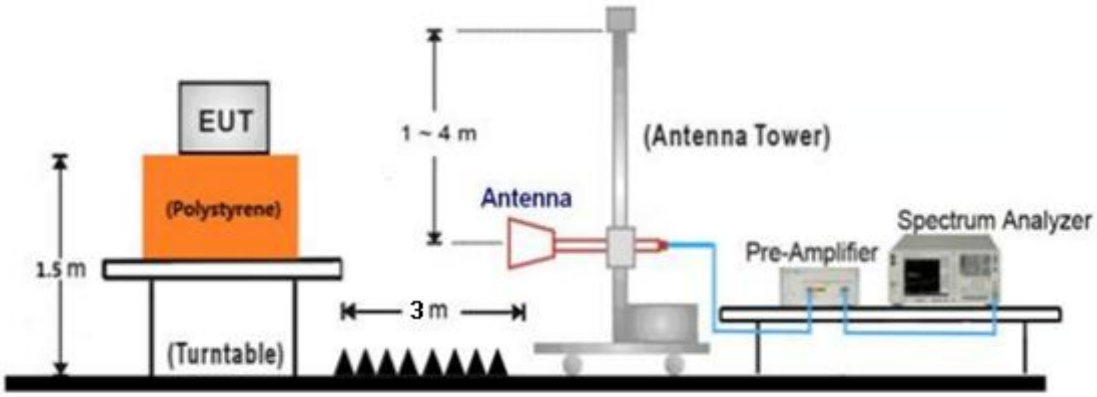
1GHz ~ 18GHz Test Setup:

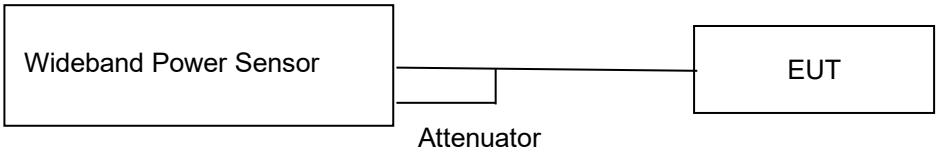


18GHz ~ 25GHz Test Setup:



8.2 Conducted RF test setups

For Conducted peak output power



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9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	E470	PF-OU5TS7 17/09
AC/DC adapter	SHENZHEN KEYU POWER	KA12C-0502000US	NA

Test software: iwpriv commend.
The system was configured to channel 1(2412MHz), 6(2437MHz), and 11(2462MHz) for 802.11 b/g/n HT20 test and channel 3(2422MHz), 6(2437MHz), 9(2452MHz) for 802.11n (HT40).

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Index Value (Power level setting)
802.11b	1	1	CCK	17
	6	1	CCK	17
	11	1	CCK	17
802.11g	1	6	OFDM	14
	6	6	OFDM	14
	11	6	OFDM	14
802.11n HT20	1	MCS0	OFDM	14
	6	MCS0	OFDM	14
	11	MCS0	OFDM	14

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

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10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

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150k-30MHz Conducted Emission Test

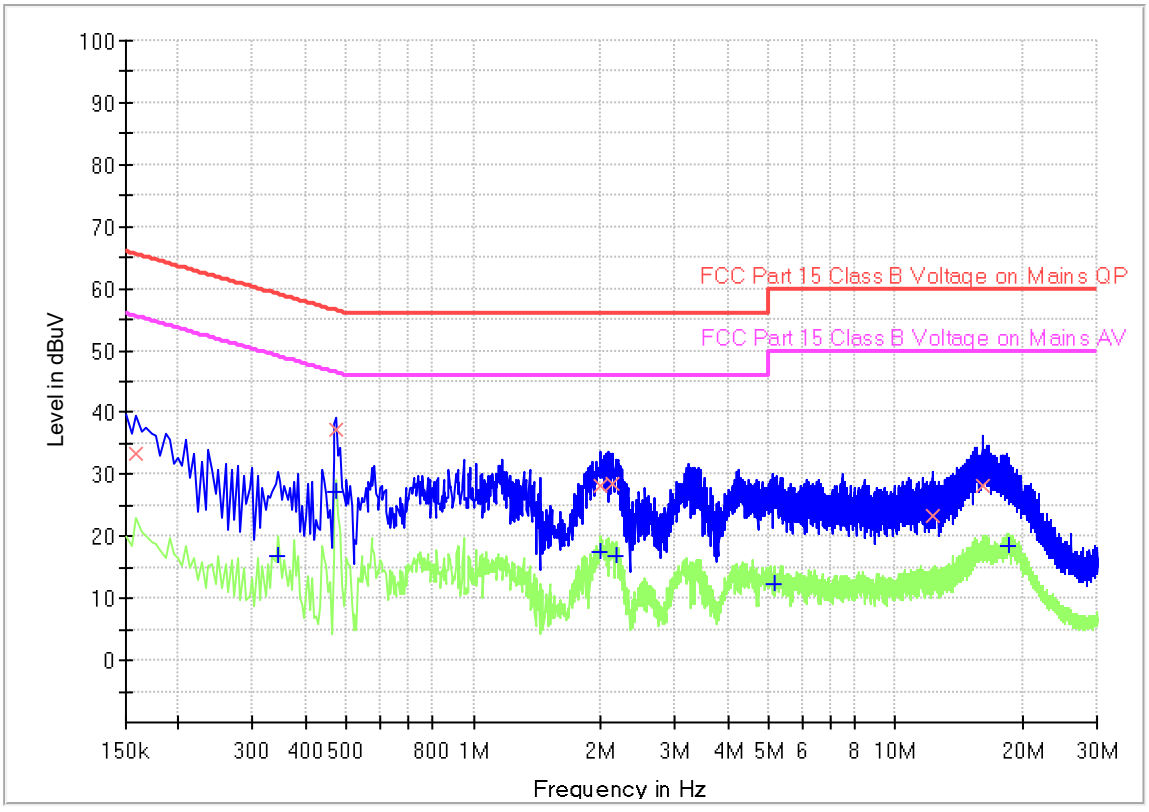
EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model	STORM S3 R
Client:	Visir Inc.
Op Cond	Power on, charging by adaptor, TX_2412MHz at g mode
Operator:	Doujun XU
Standard	FCC Part 15.207
Comment:	L
Sample No.:	SHA-920723-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	33.29	---	65.52	32.23	1000.0	9.000	L1	19.5
0.343500	---	16.93	49.12	32.19	1000.0	9.000	L1	19.4
0.474000	---	27.08	46.44	19.36	1000.0	9.000	L1	19.4
0.474000	37.35	---	56.44	19.09	1000.0	9.000	L1	19.4
1.995000	---	17.35	46.00	28.65	1000.0	9.000	L1	19.4
1.995000	28.23	---	56.00	27.77	1000.0	9.000	L1	19.4
2.130000	28.49	---	56.00	27.51	1000.0	9.000	L1	19.4
2.170500	---	16.94	46.00	29.06	1000.0	9.000	L1	19.4
5.140500	---	12.25	50.00	37.75	1000.0	9.000	L1	19.5
12.255000	23.27	---	60.00	36.73	1000.0	9.000	L1	19.7
16.053000	28.25	---	60.00	31.75	1000.0	9.000	L1	19.8
18.618000	---	18.35	50.00	31.65	1000.0	9.000	L1	19.9

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150k-30MHz Conducted Emission Test

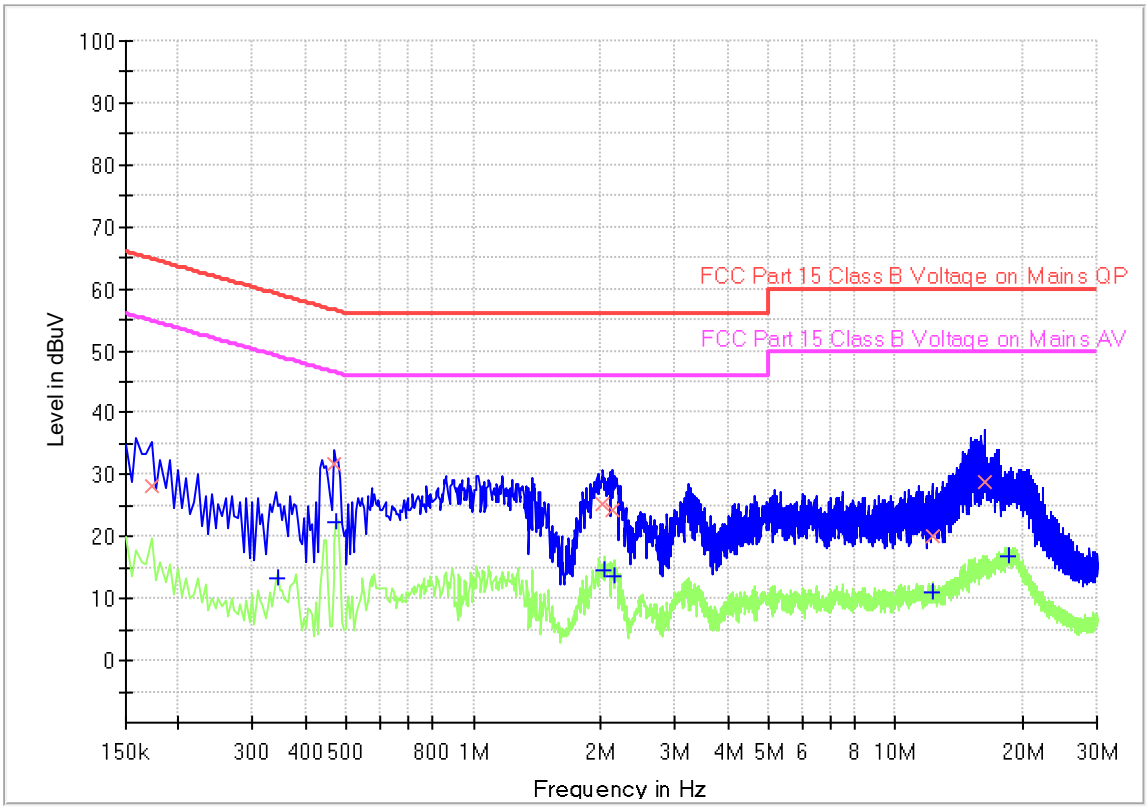
EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model	STORM S3 R
Client:	Visir Inc.
Op Cond	Power on, charging by adaptor, TX_2412MHz at g mode
Operator:	Doujun XU
Standard	FCC Part 15.207
Comment:	N
Sample No.:	SHA-920723-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.172500	28.09	---	64.84	36.75	1000.0	9.000	N	19.5
0.343500	---	13.32	49.12	35.80	1000.0	9.000	N	19.4
0.469500	31.66	---	56.52	24.86	1000.0	9.000	N	19.5
0.474000	---	22.32	46.44	24.12	1000.0	9.000	N	19.5
2.026500	25.40	---	56.00	30.60	1000.0	9.000	N	19.4
2.049000	---	14.70	46.00	31.30	1000.0	9.000	N	19.4
2.134500	24.45	---	56.00	31.55	1000.0	9.000	N	19.4
2.161500	---	13.59	46.00	32.41	1000.0	9.000	N	19.4
12.228000	---	10.98	50.00	39.02	1000.0	9.000	N	19.7
12.273000	20.17	---	60.00	39.83	1000.0	9.000	N	19.7
16.287000	28.68	---	60.00	31.32	1000.0	9.000	N	19.8
18.559500	---	16.81	50.00	33.19	1000.0	9.000	N	19.9

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

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10.2 Spurious radiated emissions for transmitter

Test Method

1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10

   1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

   Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz to 120kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

   2) For Peak unwanted emissions Above 1GHz:

   Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

   Procedures for average unwanted emissions measurements above 1GHz

   a) RBW = 1MHz.

   b) VBW \ [3 × RBW].

   c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

   d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

   e) Sweep time = auto.

   f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

   g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

   1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

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2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that 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 § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen is not required. In addition, radiated emissions which fall in the restricted bands, as defined in§ 15.205(a) and RSS-Gen scetion8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

Frequency MHz	Field Strength μV/m	Field Strength dBμV/m	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit 3m(dBμV/m)=Limit 300m(dBμV/m)+40Log(300m/3m) (Below 30MHz)
Note 2: Limit 3m(dBμV/m)=Limit 30m(dBμV/m)+40Log(30m/3m) (Below 30MHz)

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

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Test result

Worst case Radiated Emission 9KHz-30MHz

0.009-30MHz Radiated Emission

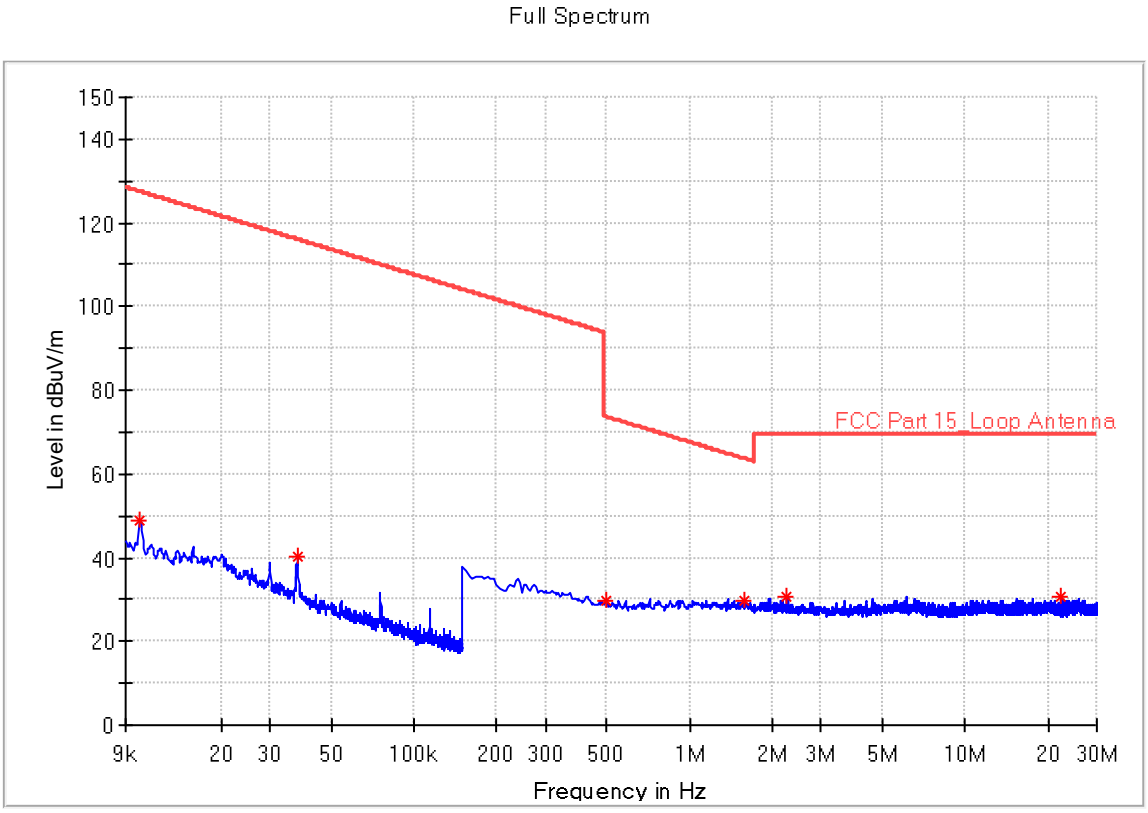
EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15.209(a)
Comment:	Horizontal
Sample No:	SHA-920723-1

Sweep Setup: RE_Loop E_pre [EMI radiated]

Hardware Setup:	RE_Loop Antenna V
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 150 kHz	88.125 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.39 kHz	PK+	9 kHz	0.01 s	0 dB



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Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
0.010146	78.70	0.200	100.0	H	78.0	19.6	48.78	127.48
0.037905	75.66	0.200	100.0	H	46.0	19.0	40.37	116.03
0.496787	43.77	9.000	100.0	H	232.0	18.8	29.91	73.68
1.567875	34.07	9.000	100.0	H	248.0	19.0	29.63	63.70
2.261449	38.79	9.000	100.0	H	153.0	19.1	30.75	69.54
22.383860	38.82	9.000	100.0	H	1.0	19.6	30.72	69.54

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0.009-30MHz Radiated Emission

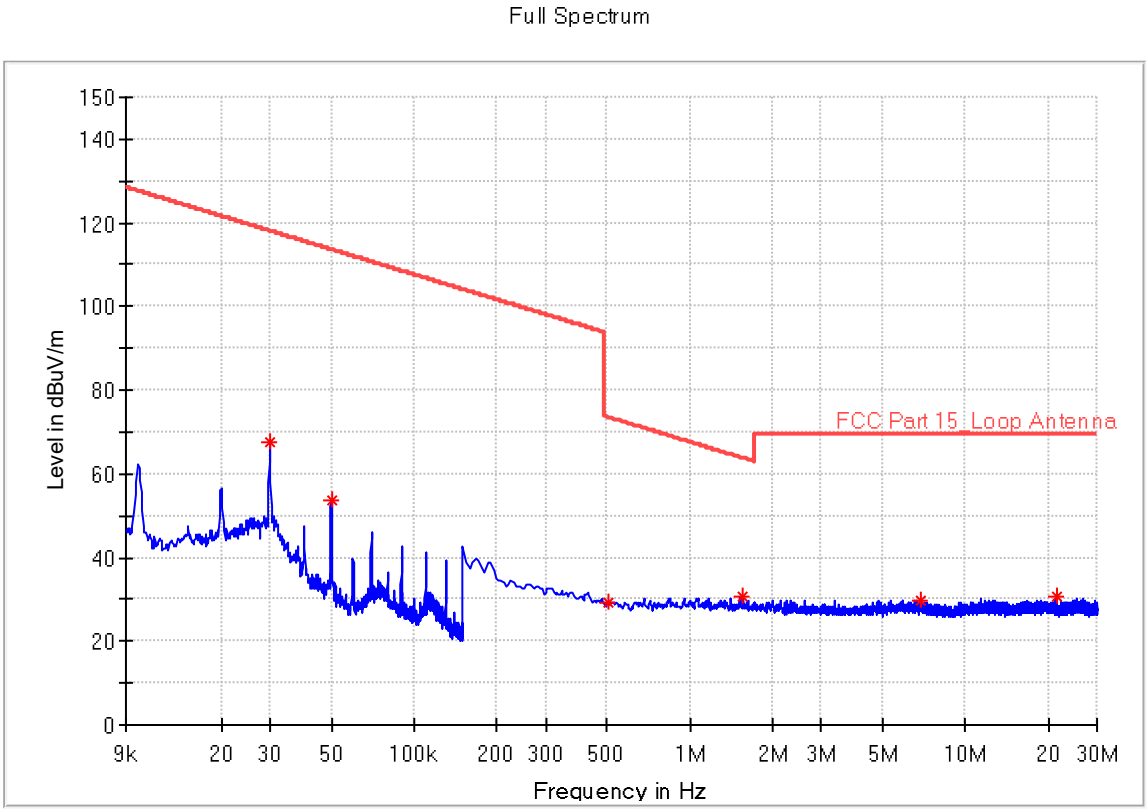
EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15.209(a)
Comment:	Horizontal
Sample No:	SHA-920723-1

Sweep Setup: RE_Loop E_pre [EMI radiated]

Hardware Setup:	RE_Loop Antenna V
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 150 kHz	88.125 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.39 kHz	PK+	9 kHz	0.01 s	0 dB



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Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
0.029974	67.62	0.200	100.0	V	52.0	19.0	50.45	118.07
0.049978	53.44	0.200	100.0	V	277.0	19.0	60.19	113.63
0.505566	29.30	9.000	100.0	V	11.0	18.8	44.23	73.53
1.559096	30.58	9.000	100.0	V	53.0	19.0	33.16	63.75
6.901368	29.83	9.000	100.0	V	107.0	18.8	39.71	69.54
21.295213	30.47	9.000	100.0	V	357.0	19.4	39.07	69.54

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Worst case Radiated Emission 30MHz-1GHz

30-1000MHz Radiated Emission

EUT Information

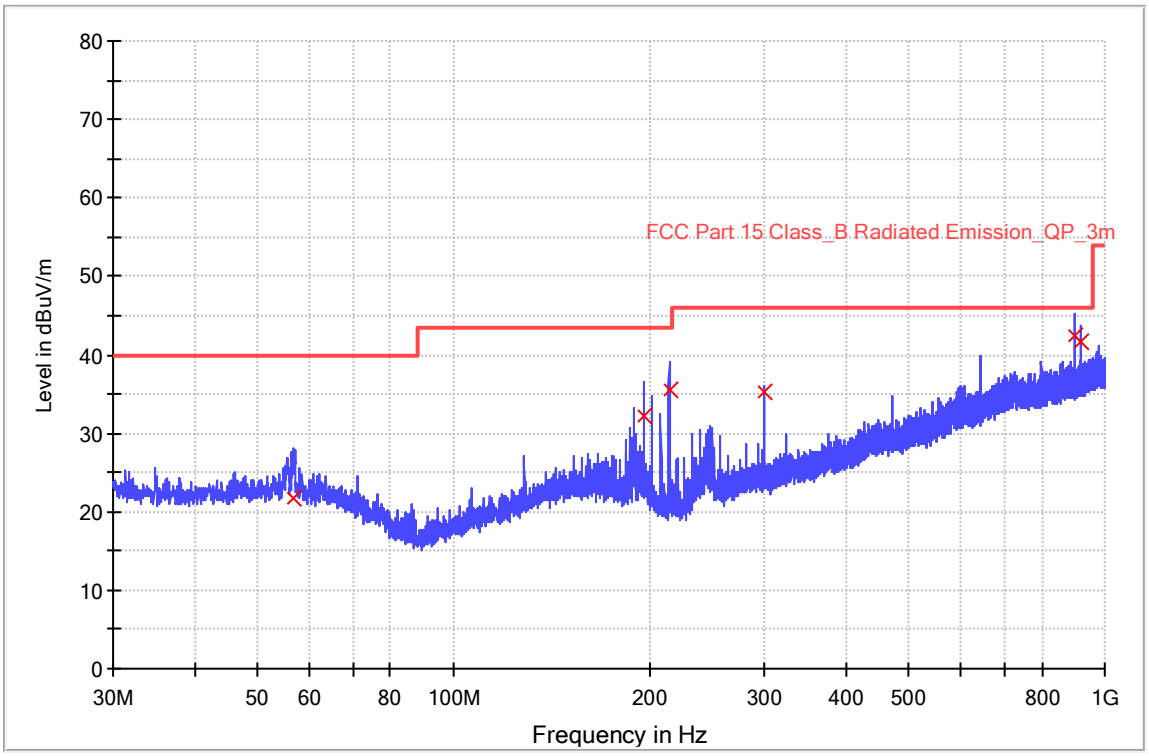
EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15.209(a)
Comment:	Horizontal
Sample No:	SHA-920723-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup:	RE_VULB9168
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB

RE_VULB9168_pre_Cont_30-1000



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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
56.920000	21.8	1000.0	120.000	100.0	H	221.0	20.5	18.2	40.0
195.880000	32.1	1000.0	120.000	150.0	H	231.0	18.2	11.4	43.5
214.280000	35.5	1000.0	120.000	200.0	H	315.0	17.7	8.0	43.5
300.000000	35.2	1000.0	120.000	150.0	H	221.0	21.7	10.8	46.0
899.960000	42.4	1000.0	120.000	200.0	H	159.0	33.3	3.6	46.0
920.760000	41.6	1000.0	120.000	250.0	H	256.0	33.8	4.4	46.0

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30-1000MHz Radiated Emission

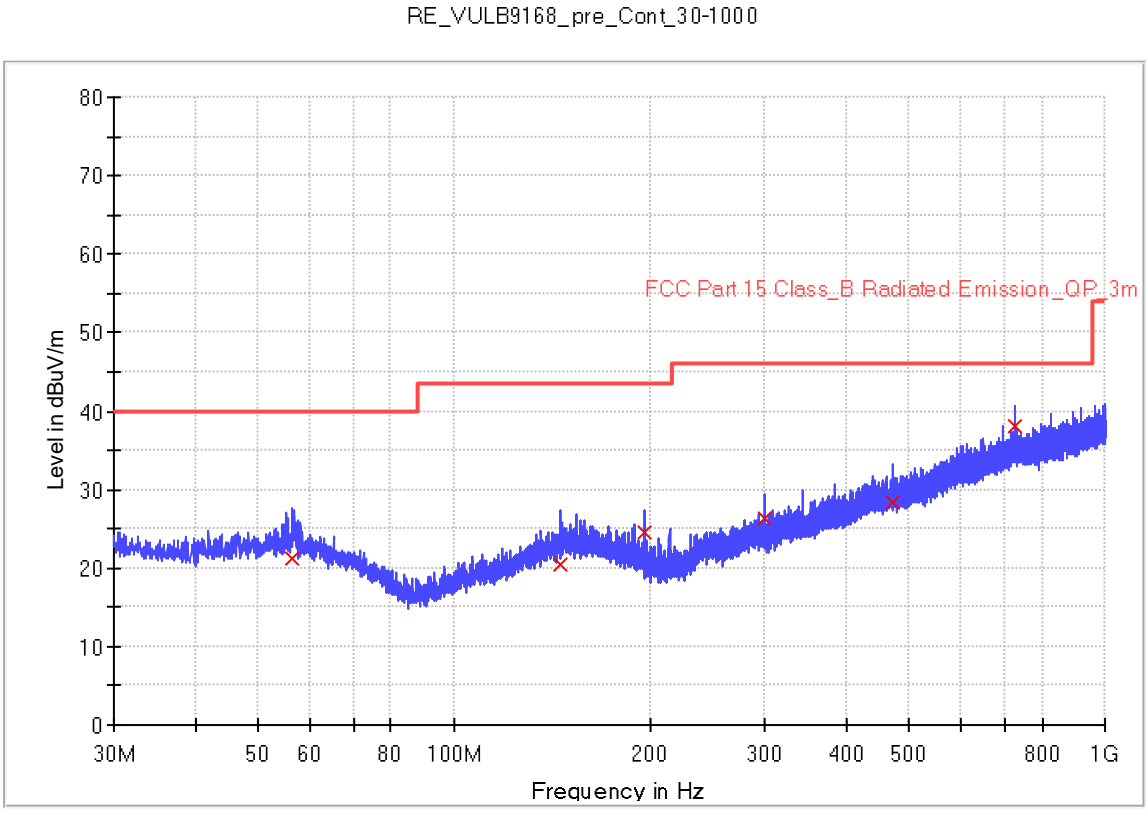
EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15 Class B
Comment:	Vertical
Sample No:	SHA-920723-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup:	RE_VULB9168
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
56.280000	21.3	1000.0	120.000	150.0	V	347.0	20.5	18.7	40.0
145.280000	20.4	1000.0	120.000	100.0	V	291.0	20.8	23.1	43.5
195.880000	24.6	1000.0	120.000	100.0	V	214.0	18.2	18.9	43.5
300.000000	26.2	1000.0	120.000	250.0	V	162.0	21.7	19.8	46.0
471.400000	28.3	1000.0	120.000	300.0	V	219.0	26.2	17.7	46.0
728.480000	38.2	1000.0	120.000	100.0	V	52.0	31.7	7.8	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

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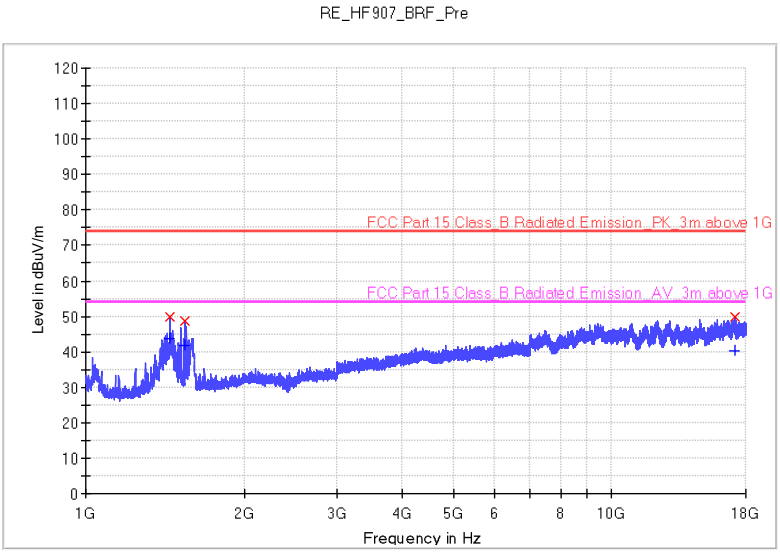
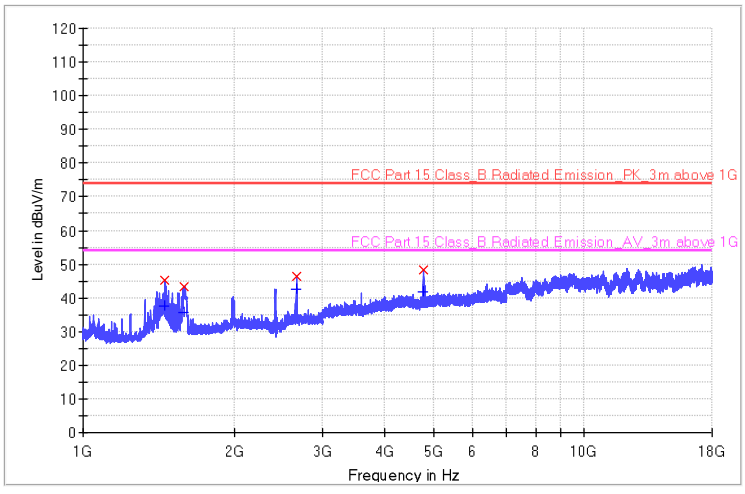
Radiated Emission 1-18 GHz

802.11B:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV /m)	Margin - AV (dB)	Limit - AV (dBuV /m)
1444.125000	49.9	43.6	1000.000	250.0	H	213.0	-16.0	24.1	74.0	10.4	54.0
1542.937500	48.7	41.8	1000.000	100.0	H	278.0	-15.3	25.3	74.0	12.2	54.0
17145.218750	50.0	40.4	1000.000	150.0	H	169.0	6.3	24.0	74.0	13.6	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/ m)	Margin - AV (dB)	Limit - AV (dBuV /m)
1454.750000	45.4	37.5	1000.000	100.0	V	216.0	-15.9	28.6	74.0	16.5	54.0
1594.468750	43.5	35.7	1000.000	150.0	V	248.0	-15.1	30.5	74.0	18.3	54.0
2661.218750	46.3	42.6	1000.000	250.0	V	173.0	-10.5	27.7	74.0	11.4	54.0
4786.218750	48.1	41.6	1000.000	200.0	V	108.0	-3.5	25.9	74.0	12.4	54.0

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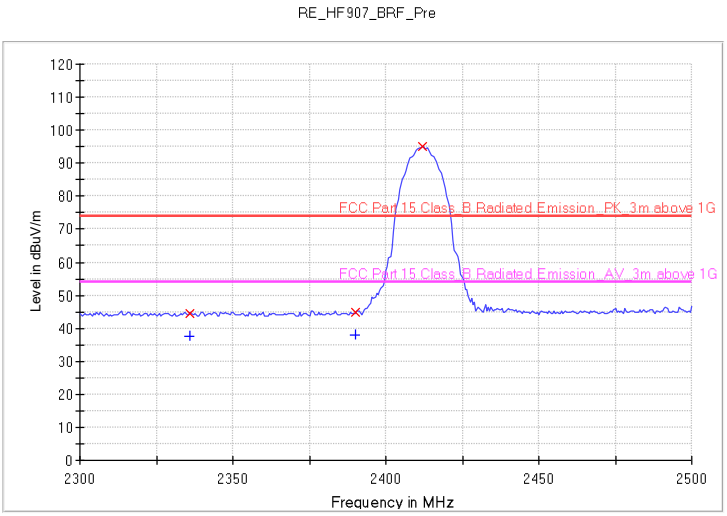
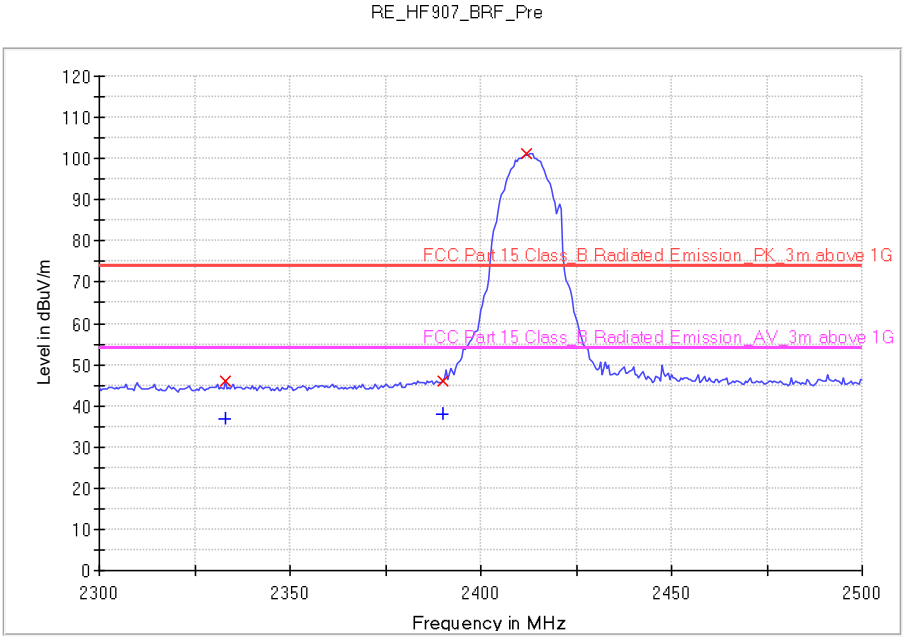


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2335.900000	44.6	37.4	1000.000	210.0	H	322.0	-2.1	29.4	74.0	16.6	54.0
2390.000000	44.9	38.1	1000.000	100.0	H	198.0	-1.9	29.1	74.0	15.9	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2333.000000	45.8	36.9	1000.000	100.0	V	214.0	-2.1	28.2	74.0	17.1	54.0
2390.000000	46.0	37.8	1000.000	220.0	V	239.0	-1.9	28.0	74.0	16.2	54.0

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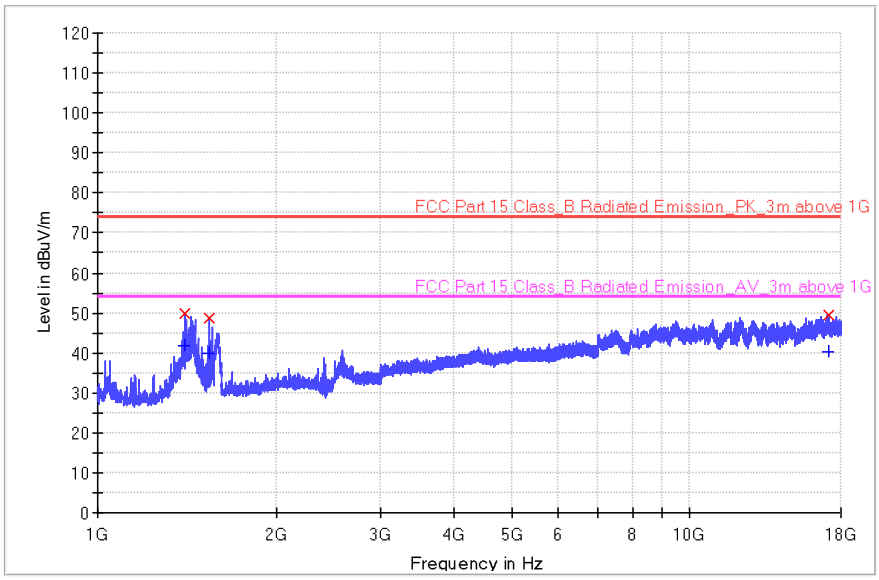
802.11B:2437MHz

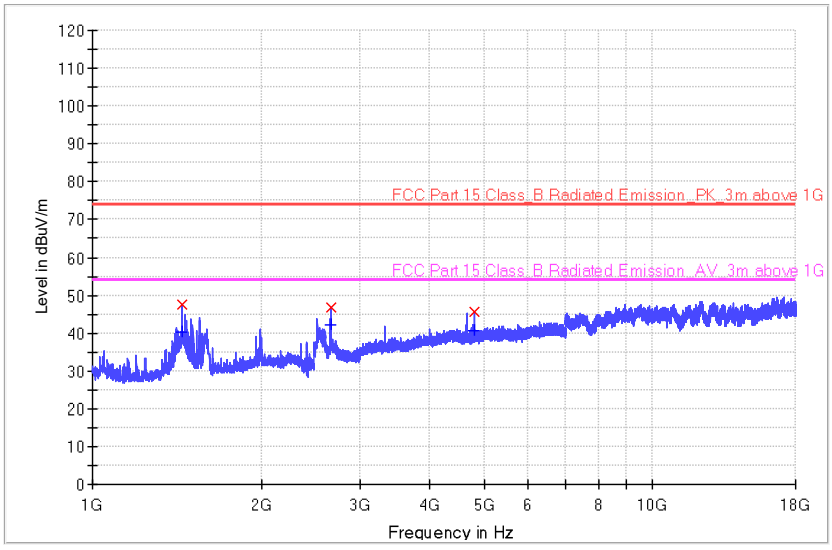
RE_HF907_BRF_Pre



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1403.200000	49.7	41.9	1000.000	100.0	H	310.0	-16.4	24.3	74.0	12.1	54.0
1543.600000	48.6	39.7	1000.000	250.0	H	262.0	-15.3	25.4	74.0	14.3	54.0
17133.100000	49.5	40.4	1000.000	300.0	H	190.0	6.3	24.5	74.0	13.6	54.0

RE_HF907_BRF_Pre



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1448.500000	47.6	40.1	1000.000	100.0	V	359.0	-16.0	26.4	74.0	13.9	54.0
2660.800000	46.9	42.2	1000.000	150.0	V	359.0	-10.5	27.1	74.0	11.8	54.0
4798.300000	45.5	40.5	1000.000	250.0	V	359.0	-3.4	28.5	74.0	13.5	54.0

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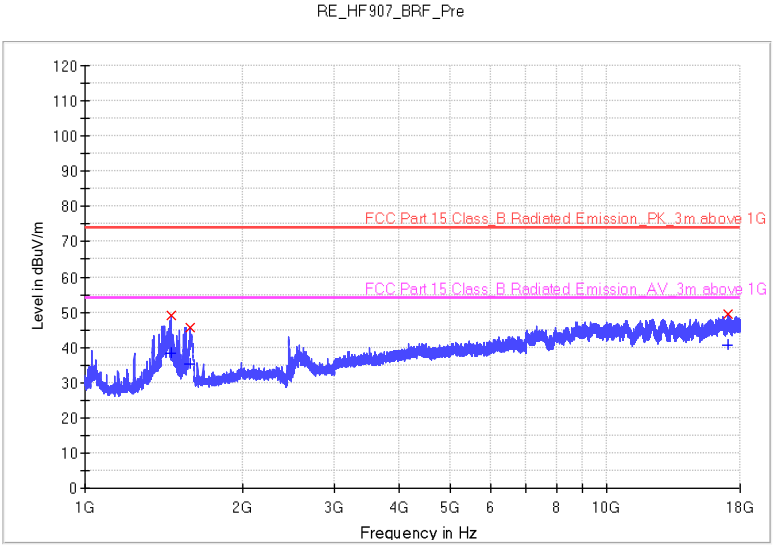
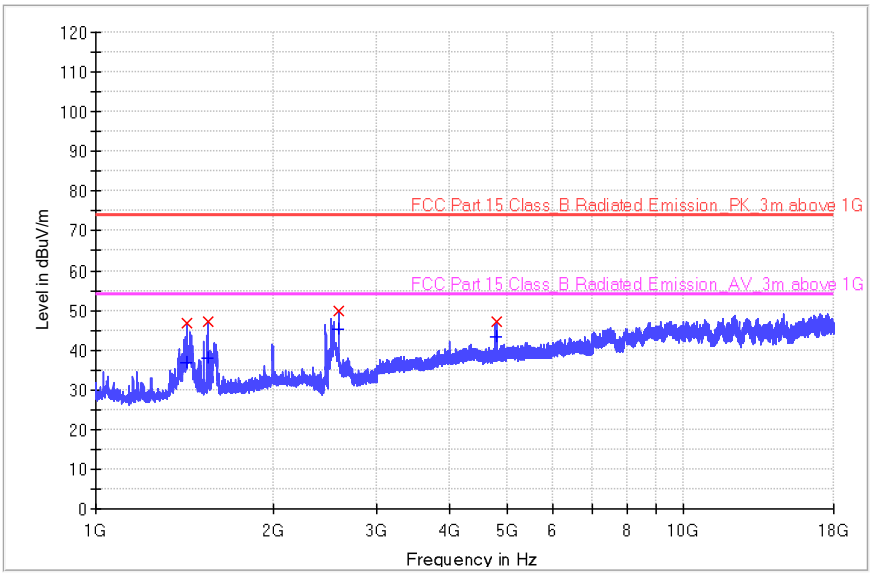
802.11B:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1460.593750	49.2	38.4	1000.000	100.0	H	241.0	-15.9	24.8	74.0	15.6	54.0
1593.937500	45.7	35.1	1000.000	250.0	H	169.0	-15.1	28.3	74.0	18.9	54.0
17040.562500	49.3	40.7	1000.000	200.0	H	274.0	6.2	24.7	74.0	13.3	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1432.300000	46.9	36.7	1000.000	200.0	V	114.0	-16.1	27.1	74.0	17.3	54.0
1549.300000	47.0	37.9	1000.000	100.0	V	216.0	-15.3	27.0	74.0	16.1	54.0
2586.312500	49.7	45.4	1000.000	250.0	V	319.0	-10.7	24.3	74.0	8.6	54.0
4798.437500	47.0	43.4	1000.000	150.0	V	178.0	-3.4	27.0	74.0	10.6	54.0

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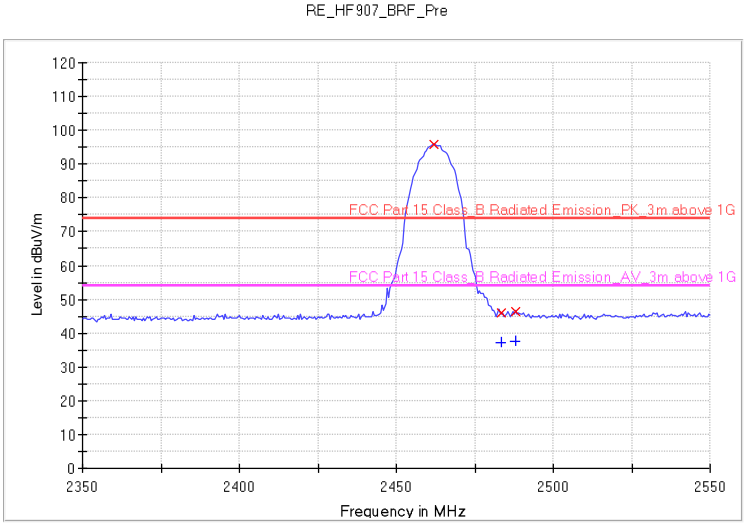
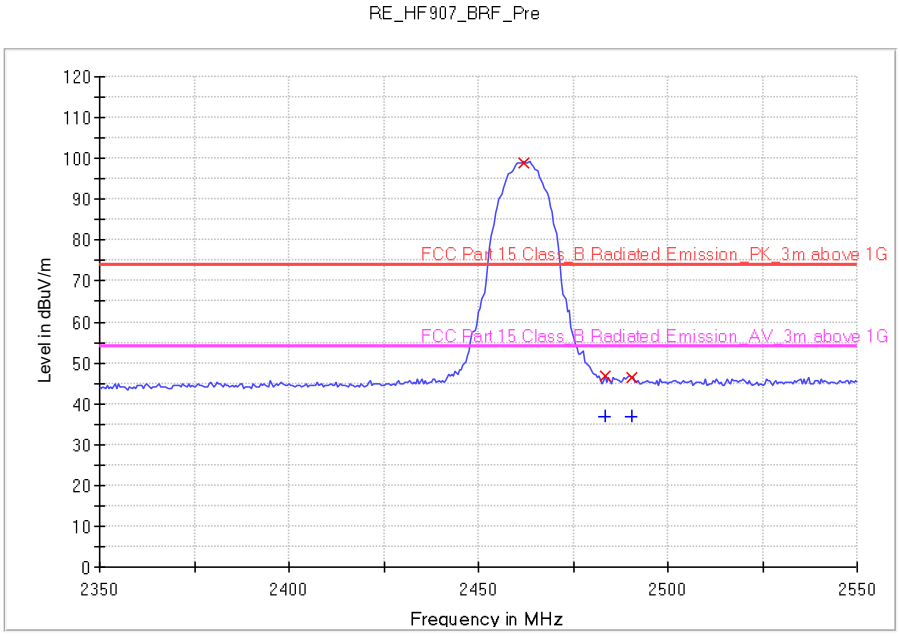


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2483.500000	45.9	37.0	1000.000	150.0	H	283.0	-1.4	28.1	74.0	17.0	54.0
2488.000000	46.4	37.6	1000.000	300.0	H	207.0	-1.3	27.6	74.0	16.4	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	98.9	595.9	1000.000	250.0	V	262.0	-1.5	-24.9	74.0	-541.9	54.0
2483.500000	46.7	36.7	1000.000	300.0	V	177.0	-1.4	27.3	74.0	17.3	54.0
2490.500000	46.3	36.9	1000.000	150.0	V	213.0	-1.4	27.7	74.0	17.1	54.0

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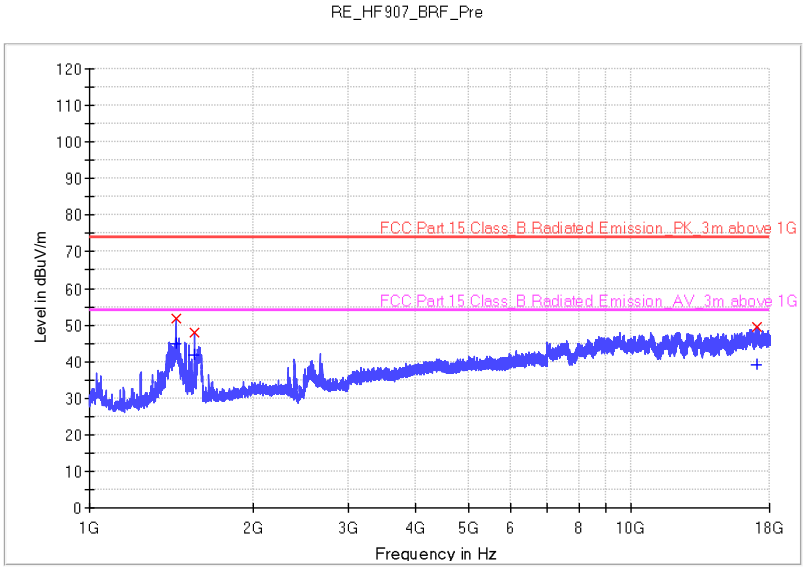
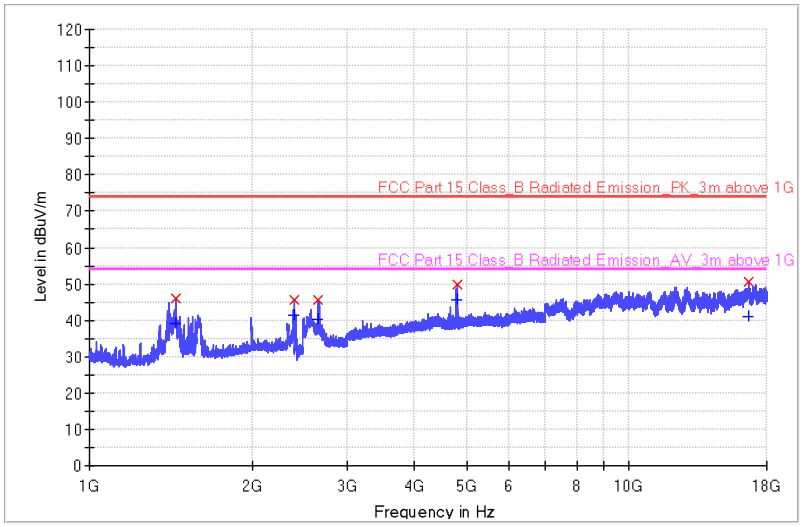
802.11G:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1443.593750	51.7	44.9	1000.000	148.0	H	144.0	-16.0	22.3	74.0	9.1	54.0
1563.100000	47.9	41.8	1000.000	250.0	H	236.0	-15.3	26.1	74.0	12.2	54.0
17092.600000	49.6	39.1	1000.000	300.0	H	179.0	6.3	24.4	74.0	15.0	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1443.100000	45.9	39.0	1000.000	122.0	V	144.0	-16.0	28.1	74.0	15.0	54.0
2391.400000	45.8	41.4	1000.000	150.0	V	268.0	-11.9	28.2	74.0	12.6	54.0
2658.100000	45.5	40.2	1000.000	240.0	V	241.0	-10.5	28.5	74.0	13.8	54.0
4797.400000	49.9	45.8	1000.000	300.0	V	301.0	-3.4	24.1	74.0	8.2	54.0
16687.900000	50.7	41.1	1000.000	150.0	V	187.0	6.1	23.3	74.0	12.9	54.0

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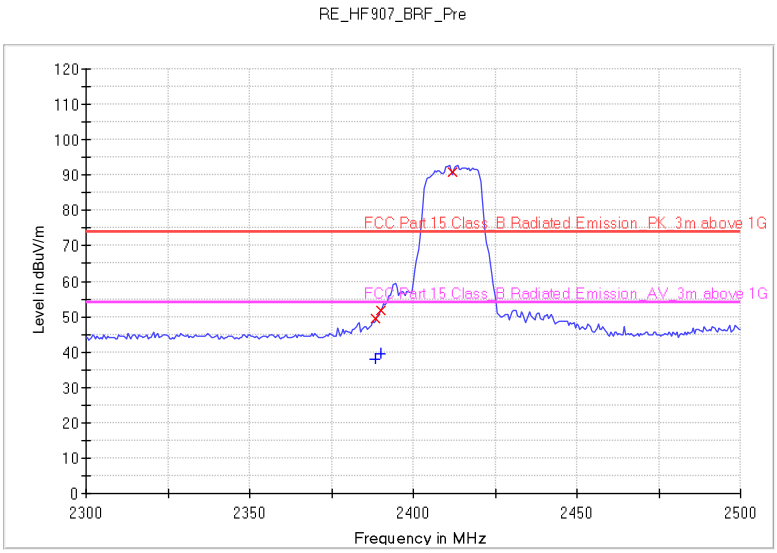
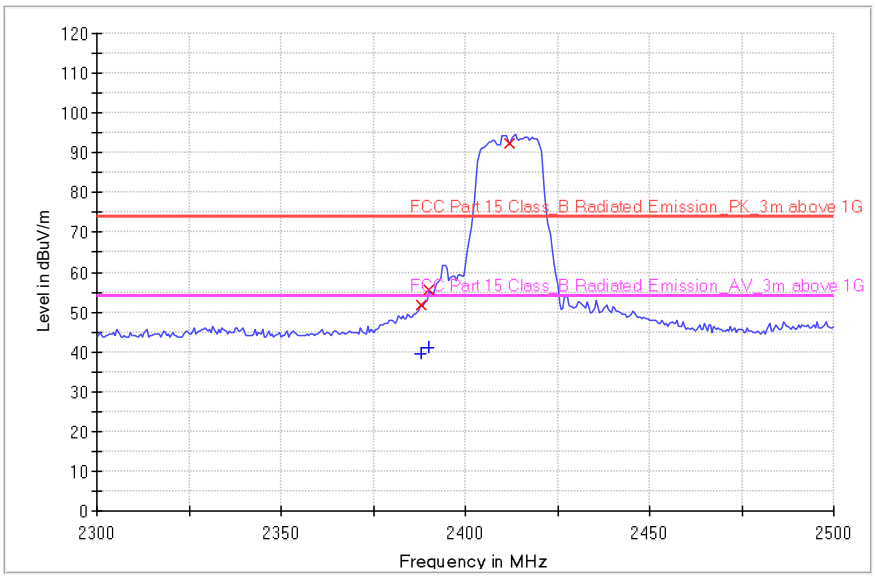


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2388.500000	49.3	37.9	1000.000	211.0	H	218.0	-1.9	24.7	74.0	16.1	54.0
2390.000000	51.7	39.5	1000.000	150.0	H	234.0	-1.9	22.3	74.0	14.5	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	RMS (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - RMS (dB)	Limit - RMS (dBuV/m)
2388.100000	51.8	39.3	1000.000	240.0	V	169.0	-1.9	22.2	74.0	14.7	54.0
2390.000000	55.4	41.2	1000.000	149.0	V	275.0	-1.9	18.6	74.0	12.8	54.0

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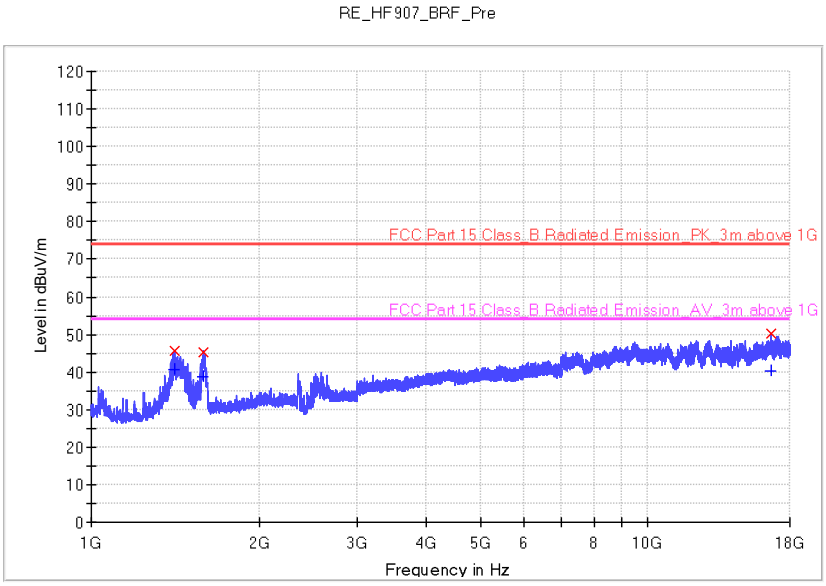
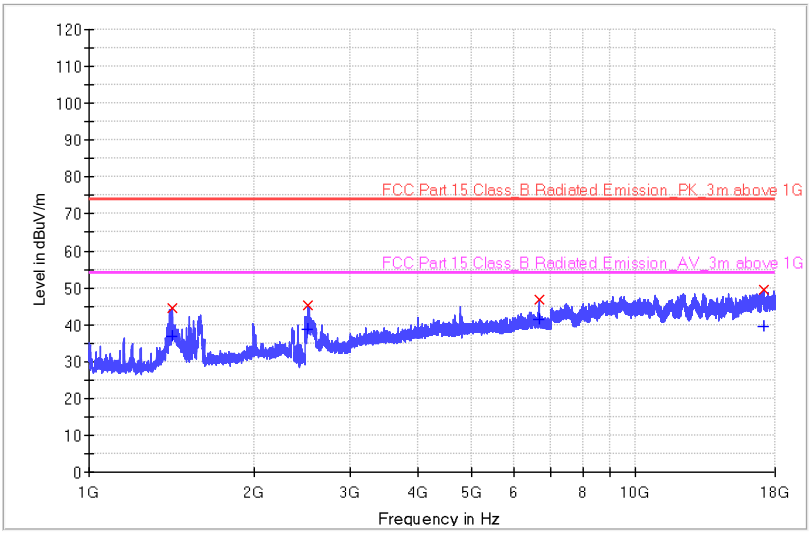
802.11G:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1413.700000	45.6	40.5	1000.000	120.0	H	118.0	-16.3	28.4	74.0	13.5	54.0
1589.200000	45.4	38.9	1000.000	240.0	H	246.0	-15.1	28.6	74.0	15.1	54.0
16696.300000	50.1	40.3	1000.000	150.0	H	239.0	6.1	23.9	74.0	13.7	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1416.400000	44.5	36.8	1000.000	152.0	V	311.0	-16.3	29.5	74.0	17.2	54.0
2520.400000	45.1	38.7	1000.000	241.0	V	259.0	-11.1	28.9	74.0	15.3	54.0
6647.800000	46.7	41.5	1000.000	150.0	V	241.0	-0.3	27.3	74.0	12.5	54.0
17144.200000	49.3	39.4	1000.000	100.0	V	179.0	6.3	24.7	74.0	14.6	54.0

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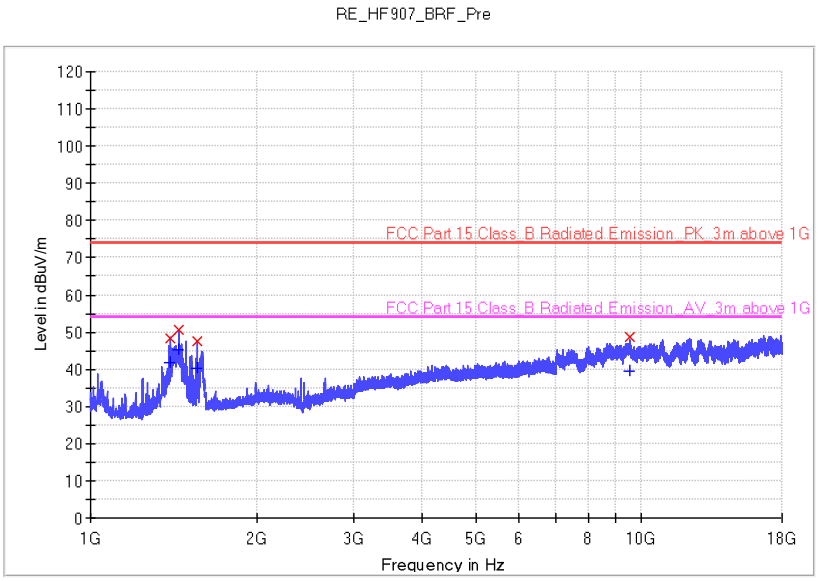
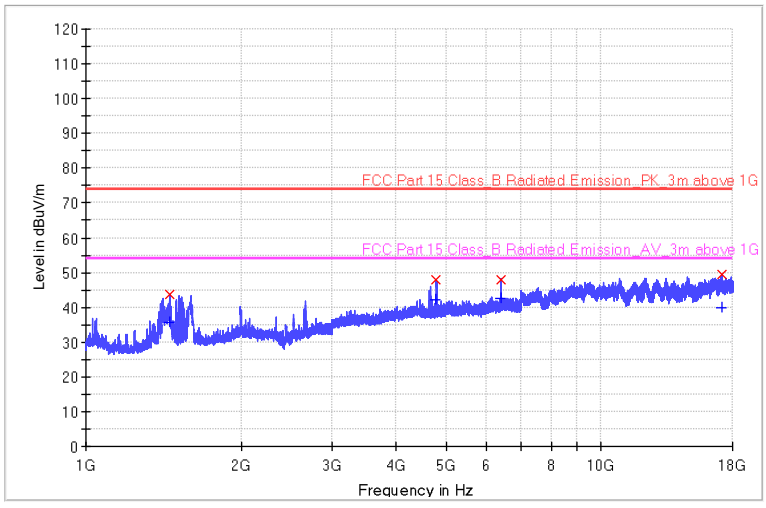
802.11G:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1399.000000	48.4	41.8	1000.000	100.0	H	269.0	-16.4	25.6	74.0	12.2	54.0
1447.900000	50.6	45.4	1000.000	150.0	H	278.0	-16.0	23.4	74.0	8.6	54.0
1563.700000	47.6	40.4	1000.000	230.0	H	210.0	-15.3	26.4	74.0	13.6	54.0
9514.300000	48.6	39.6	1000.000	200.0	H	99.0	2.1	25.4	74.0	14.4	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1454.800000	43.6	35.6	1000.000	250.0	V	264.0	-15.9	30.4	74.0	18.4	54.0
4792.600000	47.9	42.1	1000.000	300.0	V	278.0	-3.5	26.1	74.0	11.9	54.0
6399.700000	48.1	42.4	1000.000	150.0	V	193.0	-0.9	25.9	74.0	11.6	54.0
17128.600000	49.3	39.8	1000.000	100.0	V	237.0	6.3	24.7	74.0	14.2	54.0

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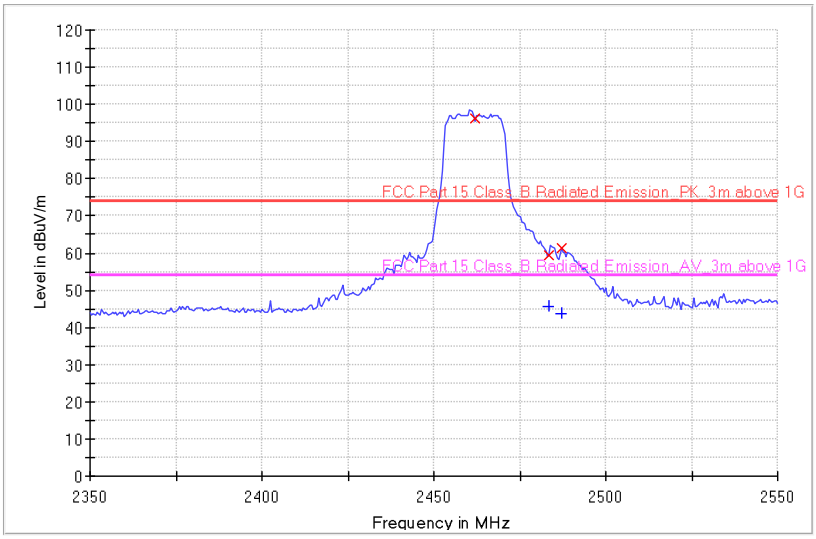
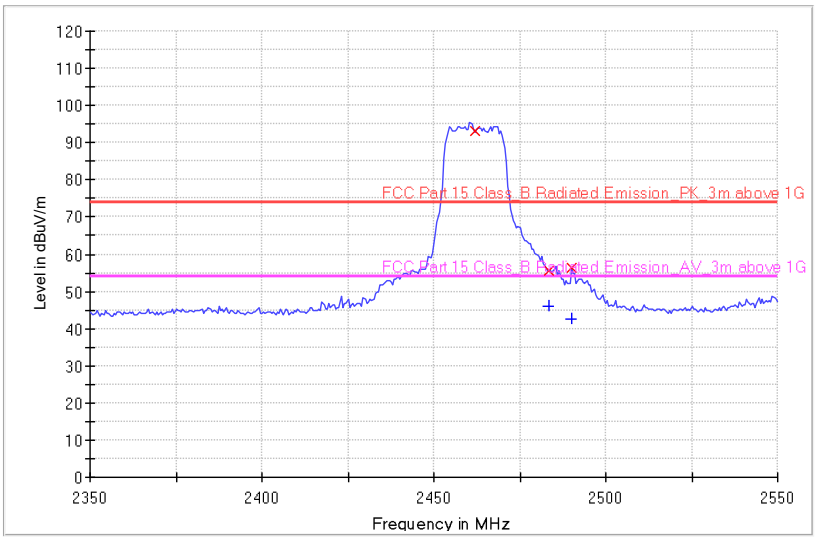
RE_HF907_BRF_Pre



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	RMS (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - RMS (dB)	Limit - RMS (dBuV/m)
2483.500000	59.6	45.5	1000.000	158.0	H	149.0	-1.4	14.4	74.0	8.5	54.0
2487.100000	61.4	43.8	1000.000	150.0	H	277.0	-1.3	12.6	74.0	10.2	54.0

RE_HF907_BRF_Pre



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2483.500000	55.6	45.9	1000.000	250.0	V	239.0	-1.4	18.4	74.0	8.1	54.0
2490.000000	56.3	42.6	1000.000	150.0	V	181.0	-1.3	17.7	74.0	11.4	54.0

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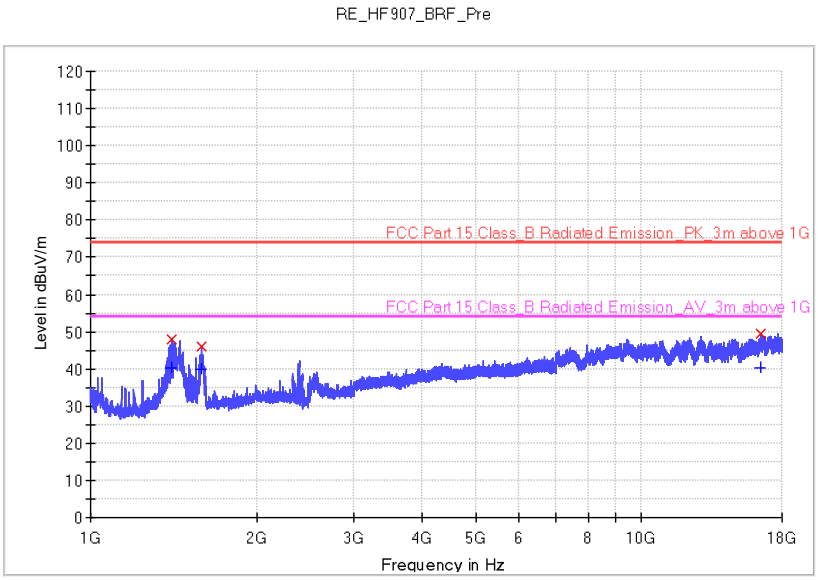
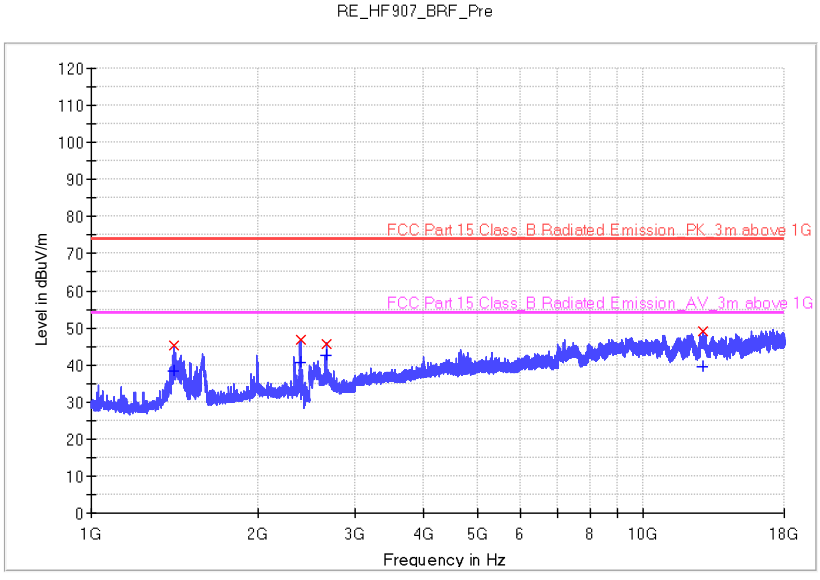
802.11N20:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1407.468750	48.0	40.4	1000.000	200.0	H	133.0	-16.4	26.0	74.0	13.6	54.0
1593.400000	46.2	39.7	1000.000	100.0	H	269.0	-15.1	27.8	74.0	14.3	54.0
16465.750000	49.4	40.3	1000.000	250.0	H	248.0	5.6	24.6	74.0	13.7	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1409.500000	45.2	38.3	1000.000	300.0	V	239.0	-16.3	28.8	74.0	15.7	54.0
2391.400000	46.6	40.6	1000.000	210.0	V	245.0	-11.9	27.4	74.0	13.4	54.0
2660.800000	45.8	42.6	1000.000	150.0	V	178.0	-10.5	28.2	74.0	11.4	54.0
12812.800000	48.9	39.5	1000.000	100.0	V	311.0	3.5	25.1	74.0	14.5	54.0

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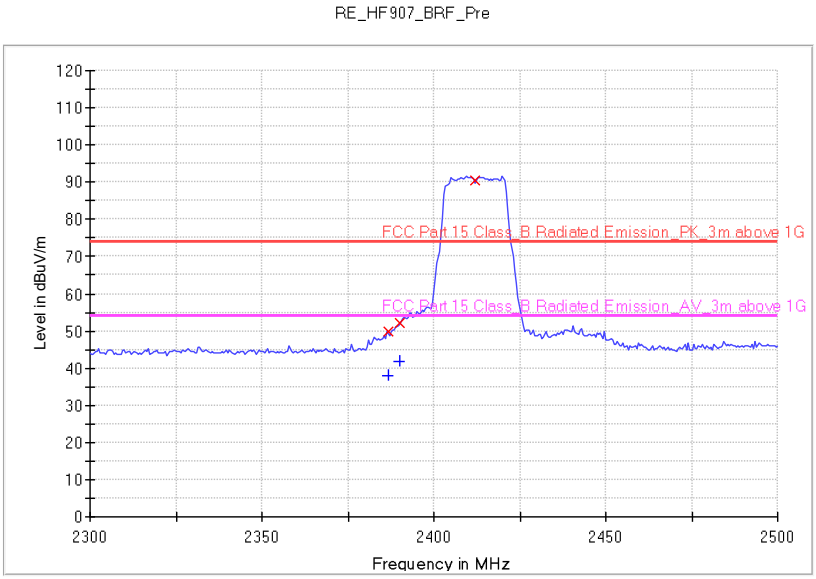
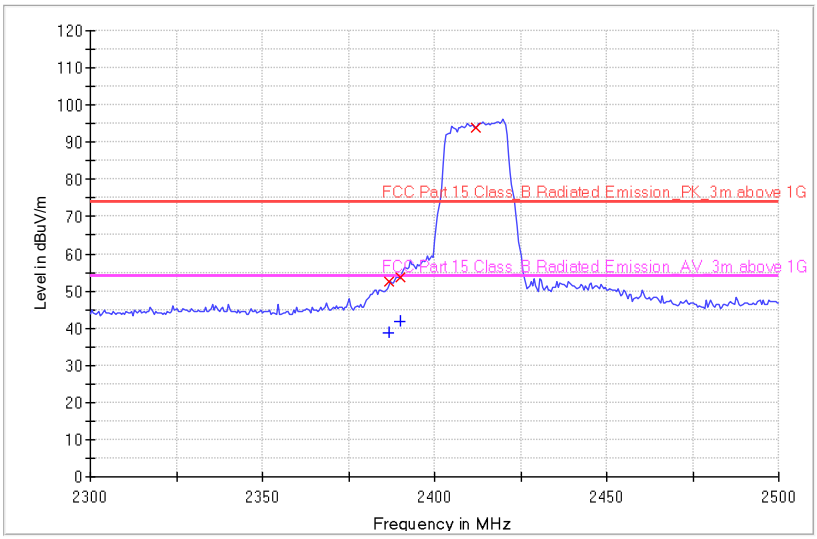


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2386.600000	50.0	37.8	1000.000	210.0	H	144.0	-1.9	24.0	74.0	16.2	54.0
2390.000000	52.1	41.6	1000.000	136.0	H	290.0	-1.9	21.9	74.0	12.4	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2386.900000	52.5	38.6	1000.000	200.0	V	144.0	-1.9	21.5	74.0	15.4	54.0
2390.000000	53.6	41.8	1000.000	186.0	V	290.0	-1.9	20.4	74.0	12.2	54.0

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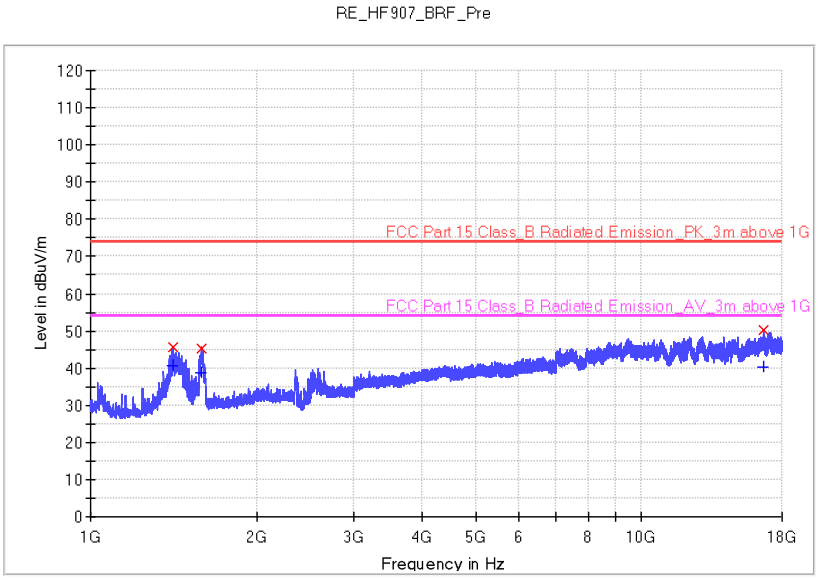
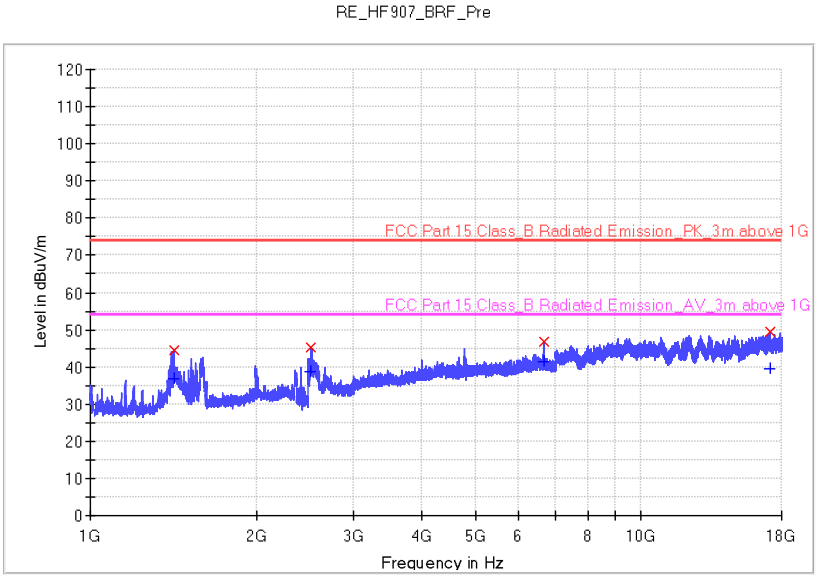
802.11N20:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1413.700000	45.6	40.5	1000.000	120.0	H	118.0	-16.3	28.4	74.0	13.5	54.0
1589.200000	45.4	38.9	1000.000	240.0	H	246.0	-15.1	28.6	74.0	15.1	54.0
16696.300000	50.1	40.3	1000.000	150.0	H	239.0	6.1	23.9	74.0	13.7	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1416.400000	44.5	36.8	1000.000	152.0	V	311.0	-16.3	29.5	74.0	17.2	54.0
2520.400000	45.1	38.7	1000.000	241.0	V	259.0	-11.1	28.9	74.0	15.3	54.0
6647.800000	46.7	41.5	1000.000	150.0	V	241.0	-0.3	27.3	74.0	12.5	54.0
17144.200000	49.3	39.4	1000.000	100.0	V	179.0	6.3	24.7	74.0	14.6	54.0

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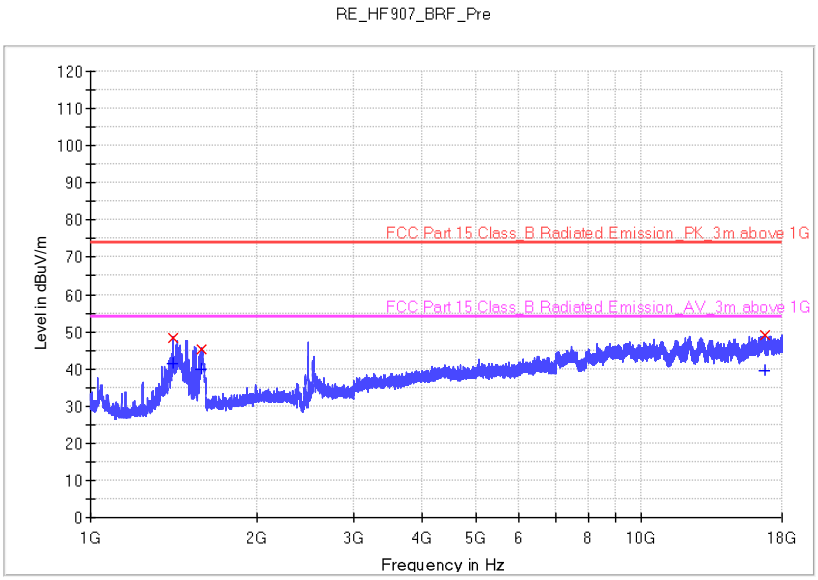
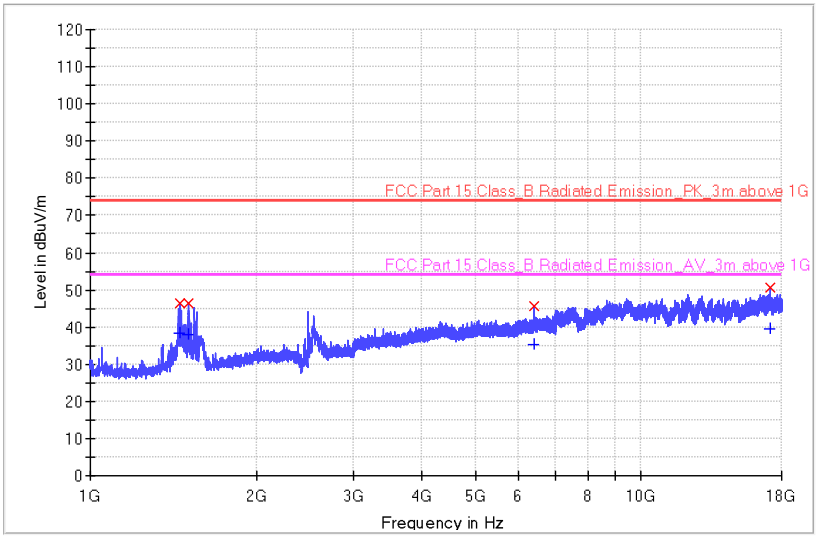
802.11N20:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1412.800000	48.4	41.5	1000.000	150.0	H	333.0	-16.3	25.6	74.0	12.5	54.0
1592.200000	45.4	40.0	1000.000	240.0	H	264.0	-15.1	28.6	74.0	14.0	54.0
16718.500000	48.9	39.5	1000.000	130.0	H	170.0	6.1	25.1	74.0	14.5	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
1450.900000	46.5	38.2	1000.000	300.0	V	314.0	-16.0	27.6	74.0	15.8	54.0
1506.400000	46.3	37.9	1000.000	147.0	V	285.0	-15.5	27.7	74.0	16.1	54.0
6399.700000	45.7	35.4	1000.000	210.0	V	217.0	-0.9	28.3	74.0	18.6	54.0
17152.600000	50.5	39.4	1000.000	150.0	V	193.0	6.3	23.5	74.0	14.7	54.0

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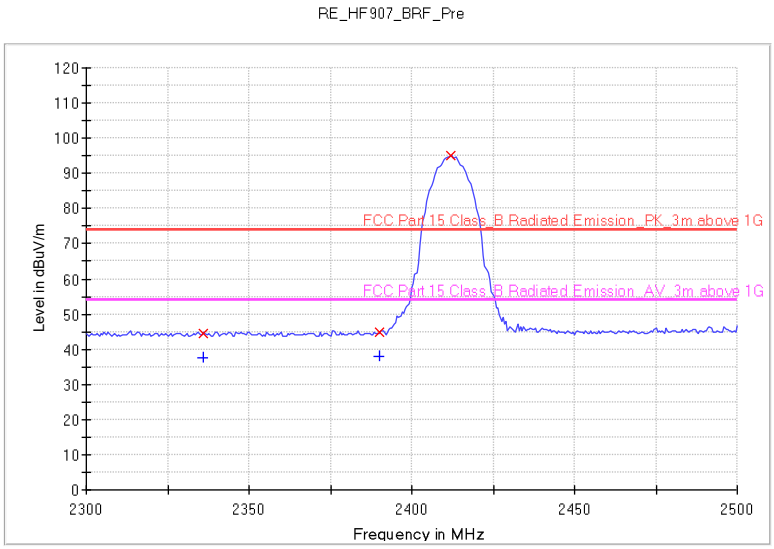
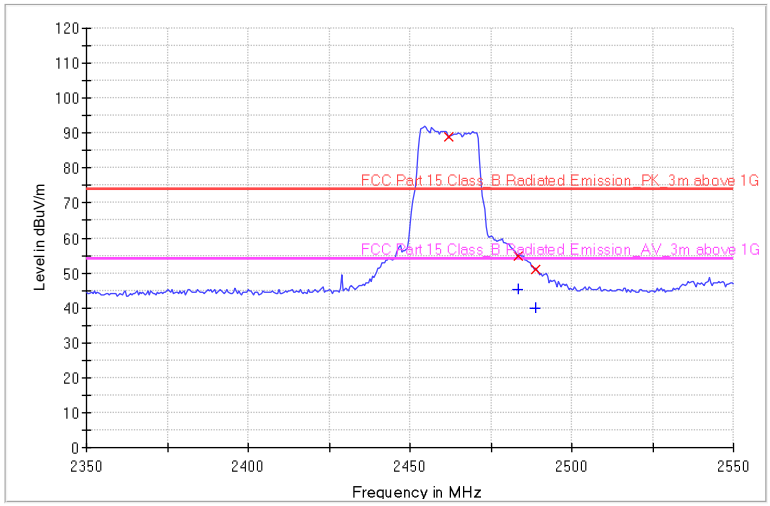


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2335.900000	44.6	37.4	1000.000	210.0	H	322.0	-2.1	29.4	74.0	16.6	54.0
2390.000000	44.9	38.1	1000.000	100.0	H	198.0	-1.9	29.1	74.0	15.9	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin -AV (dB)	Limit - AV (dBuV/m)
2483.500000	55.0	45.4	1000.000	160.0	H	179.0	-1.4	19.0	74.0	8.6	54.0
2489.000000	50.9	39.9	1000.000	300.0	H	234.0	-1.3	23.1	74.0	14.1	54.0

Remark:

(1) Emission level= Original Receiver Reading + Correct Factor
(2) Correct Factor = Antenna Factor + Cable Loss -Amplifier gain
(3) Margin = limit – Corrected Reading

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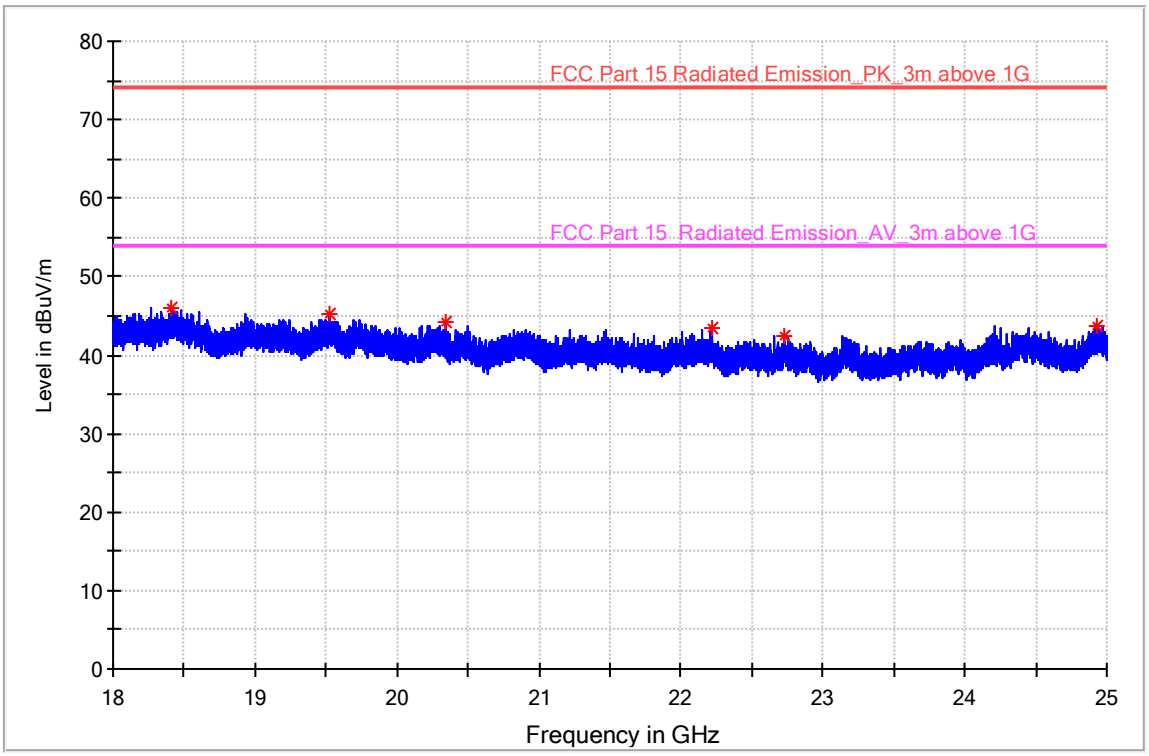
Worst case Radiated Emission 18-25GHz

EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15.209(a)
Comment:	Horizontal
Sample No:	SHA-920723-1

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18415.406250	45.99	---	74.00	28.01	100.0	H	102.0	8.1
19523.156250	45.23	---	74.00	28.77	100.0	H	110.0	8.4
20336.468750	44.25	---	74.00	29.75	100.0	H	131.0	8.3
22215.093750	43.36	---	74.00	30.64	100.0	H	0.0	8.8
22725.656250	42.47	---	74.00	31.53	100.0	H	227.0	8.9
24936.343750	43.82	---	74.00	30.18	100.0	H	220.0	9.0

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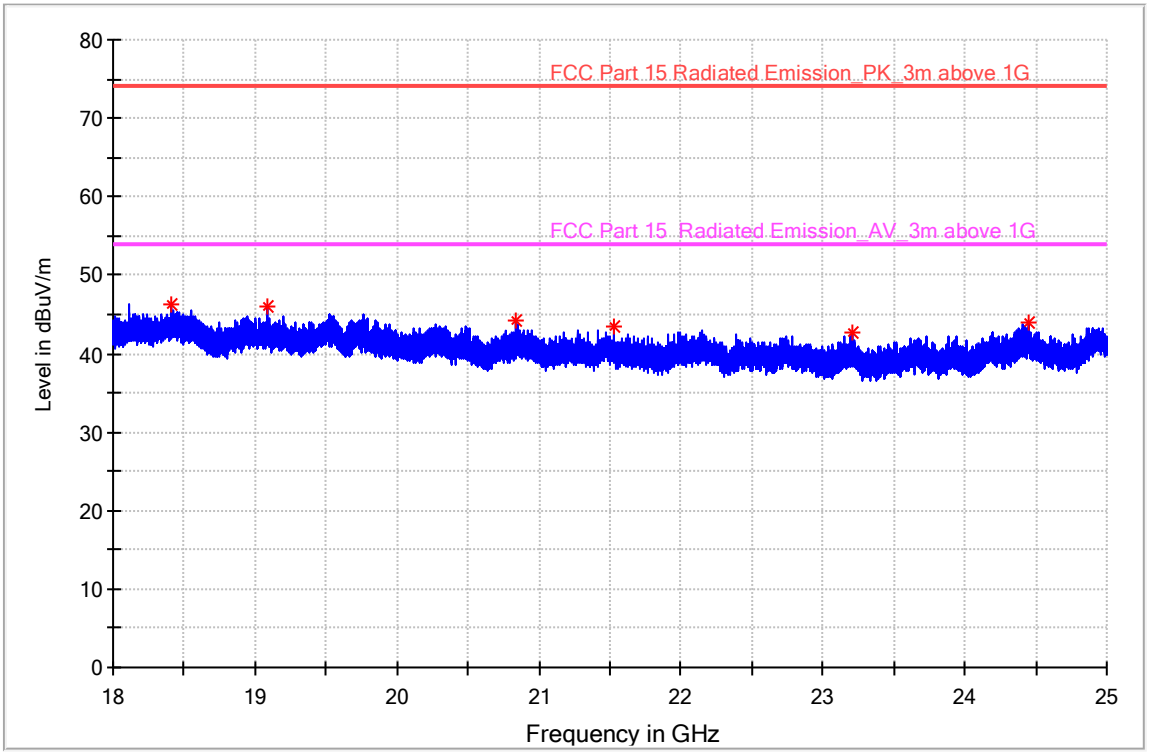
Worst case Radiated Emission 18-25GHz

EUT Information

EUT Name:	STORM Series Thermal Imaging Scope
Model:	STORM S3 R
Client:	Visir Inc.
Op Cond:	Power on and TX_2412MHz at g mode
Operator:	Doujun XU
Test Spec:	FCC Part 15.209(a)
Comment:	Vertical
Sample No:	SHA-920723-1

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18403.593750	46.23	---	74.00	27.77	100.0	V	279.0	8.1
19088.937500	45.91	---	74.00	28.09	100.0	V	301.0	8.1
20842.875000	44.15	---	74.00	29.85	100.0	V	76.0	8.5
21522.093750	43.48	---	74.00	30.52	100.0	V	272.0	8.6
23204.281250	42.59	---	74.00	31.41	100.0	V	139.0	8.9
24449.406250	44.03	---	74.00	29.97	100.0	V	209.0	9.0

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11 Test Equipment List

List of Test Instruments
Test Site1

	Description	Manufacturer	Model no.	Serial no.	CAL. DATE	CAL. DUE DATE
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2025-8-1	2026-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2025-8-1	2026-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2024-8-30	2025-8-29
	Double-ridged waveguide horn antenna	Rohde & Schwarz	HF907	102393	2025-4-14	2026-4-13
	Pre-amplifier	Shenzhen HzEMC	HPA-081843	HYPA23026	2025-4-14	2026-4-13
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2025-7-4	2026-7-3
	Double Ridged Horn Antenna	ETS-Lindgren	3116C	000222727	2023-7-7	2026-7-6
	RE_Cable_01 Coaxial Cable	JUNFLON	MWX221	1906S057	2025-8-1	2026-7-31
	RE_Cable_02 Coaxial Cable	HUBER+SUHNER	RG214	1358176	2025-8-1	2026-7-31
	RE_Cable_03 Coaxial Cable	JUNFLON	MWX221	J12J102482	2025-8-1	2026-7-31
	RE_Cable_04 Coaxial Cable	PASTERNACK	PE360	2233	2025-8-1	2026-7-31
	3m Semi-anechoic chamber	TDK	9X6X6	----	2024-5-8	2027-5-7
CE	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2025-8-1	2026-7-31
	LISN	Rohde & Schwarz	ENV216	101924	2025-8-1	2026-7-31
	CE_Cable_01 Coaxial Cable	HUBER+SUHNER	RG400	1002115055	2024-8-1	2025-7-31

Measurement Software Information

Test Item	Software	Manufacturer	Version
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density
- Spurious RF conducted emissions
- Band edge

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12 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
RF Conducted Measurement	Power related： 1.16dB Frequency related： 6.00×10^{-8}

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.

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13 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

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14 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

----------End of Test Report----------

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