

Max Stable Difference	0.22 dB	0.30 dB
-----------------------	---------	---------

Occupied Channel Bandwidth 99% (2480 MHz; 20.000 dBm; 125kbps)

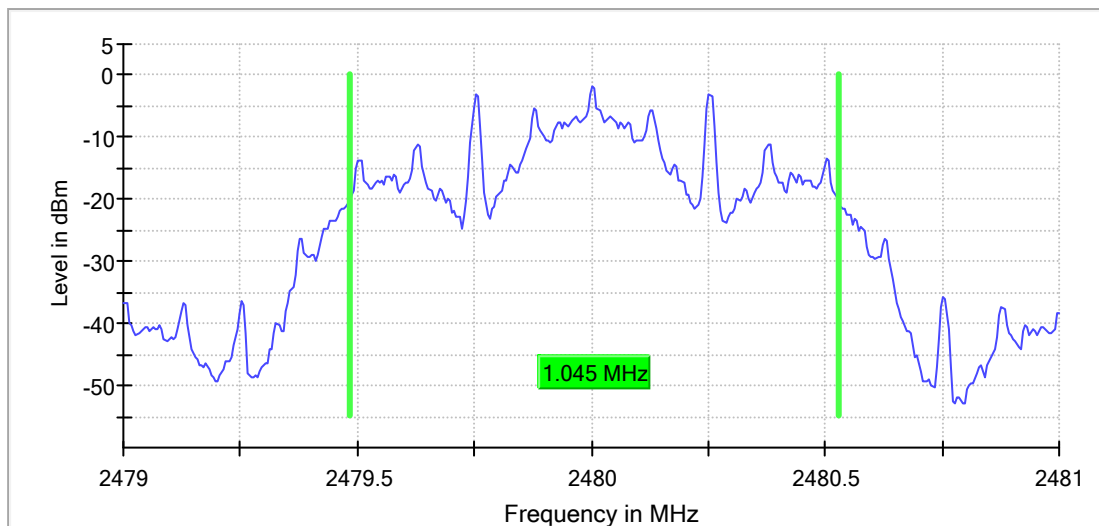
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.045000	---	---	2479.482500	2480.527500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.24 dB	0.30 dB

Bluetooth LE, 500kbps

Occupied Channel Bandwidth 99% (2402 MHz; 20.000 dBm; 500kbps)

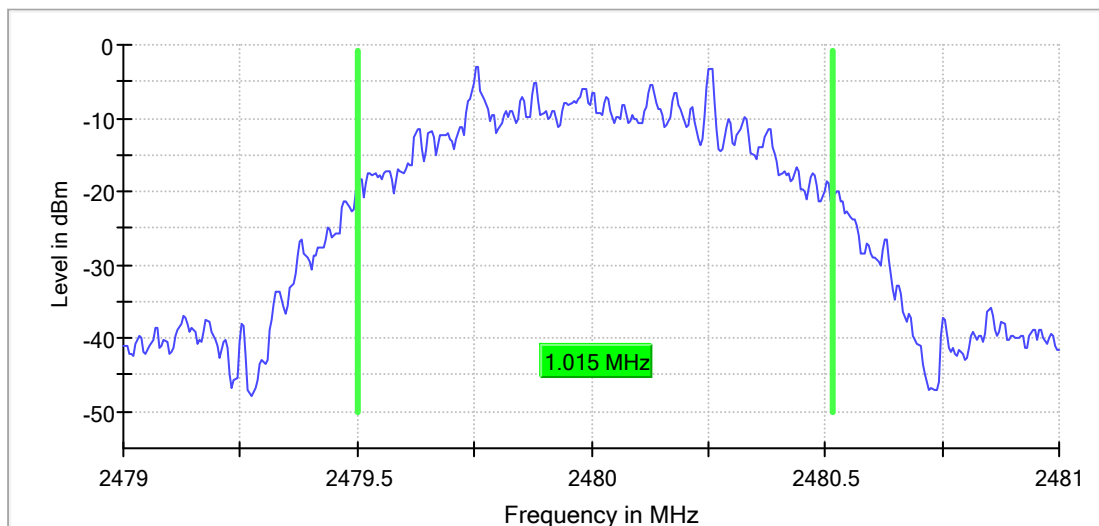
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.015000	---	---	2479.502500	2480.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3

Max Stable Difference	0.15 dB	0.30 dB
-----------------------	---------	---------

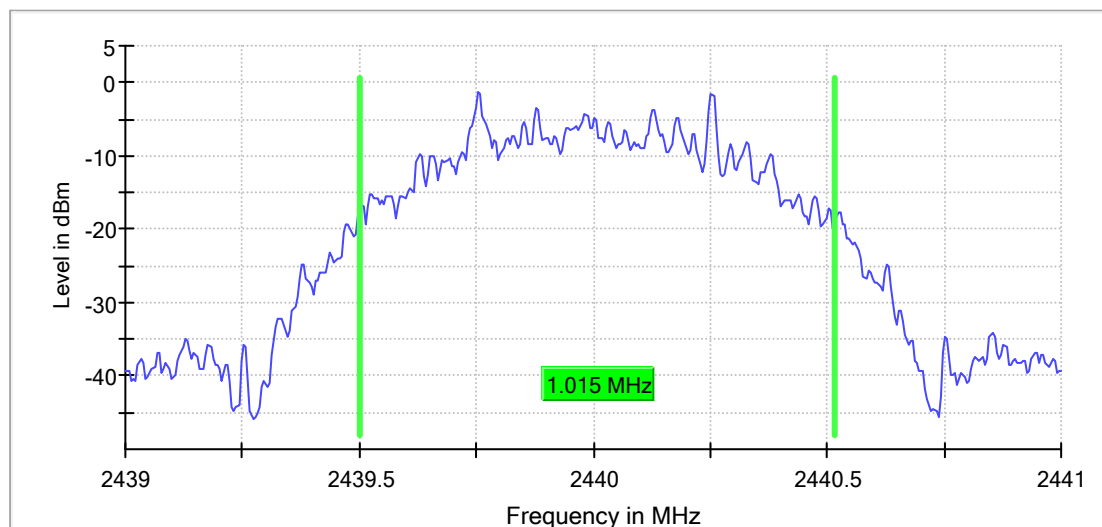
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.015000	---	---	2439.502500	2440.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.19 dB	0.30 dB

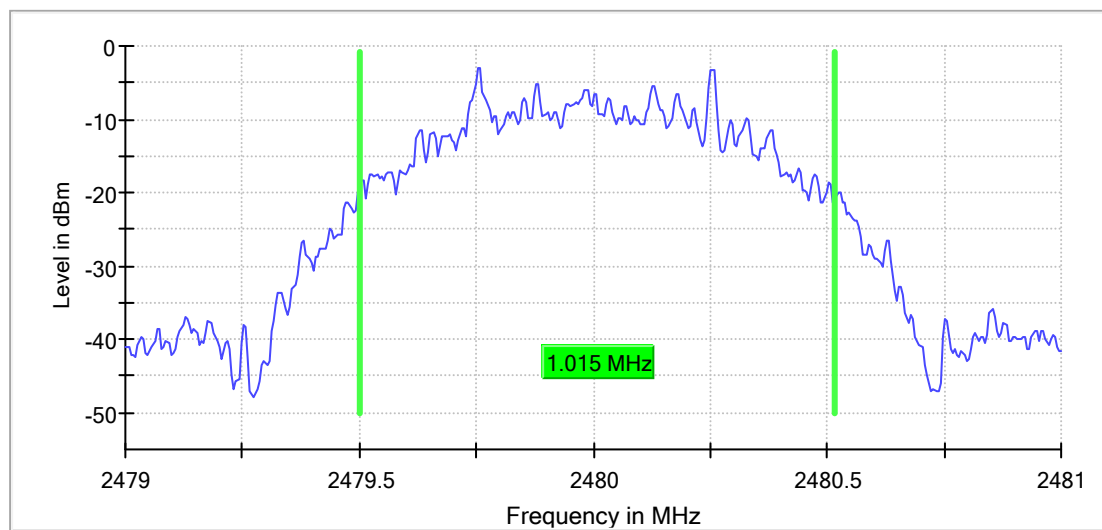
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.015000	---	---	2479.502500	2480.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	10 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.15 dB	0.30 dB

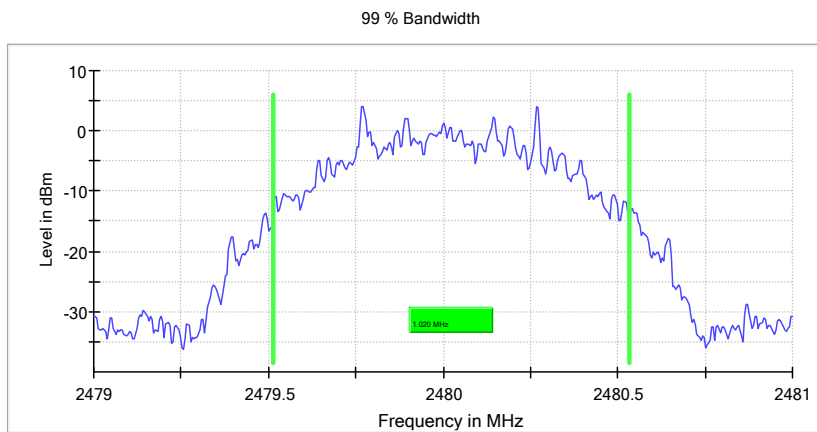
Occupied Channel Bandwidth 99% (2480 MHz; 20.000 dBm; 500kbps)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.020000	---	---	2479.512500	2480.532500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.30 dB

Bluetooth LE, 1Mbps

Occupied Channel Bandwidth 99% (2402 MHz; 20.000 dBm; 1 MHz)

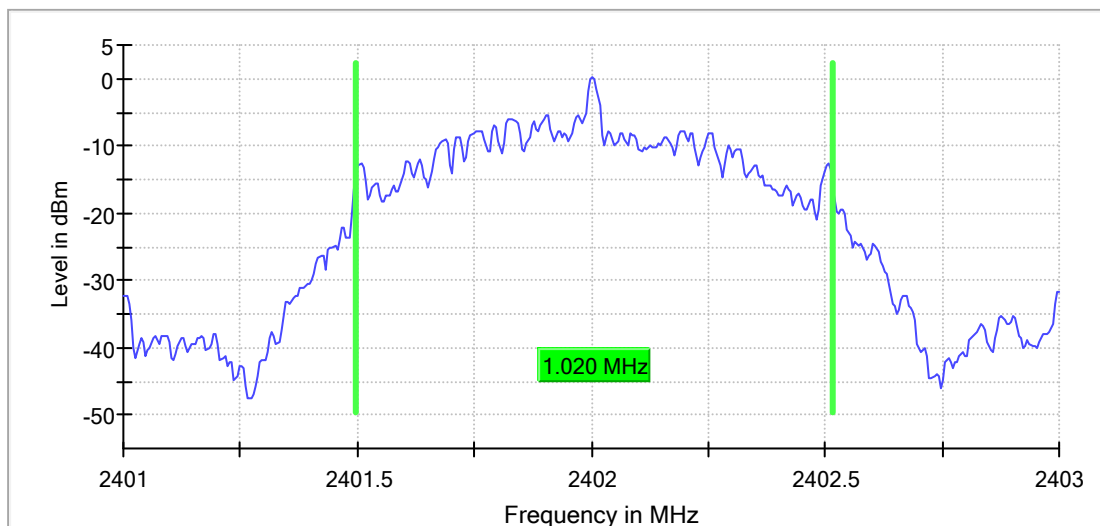
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.020000	---	---	2401.497500	2402.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.10 dB	0.30 dB

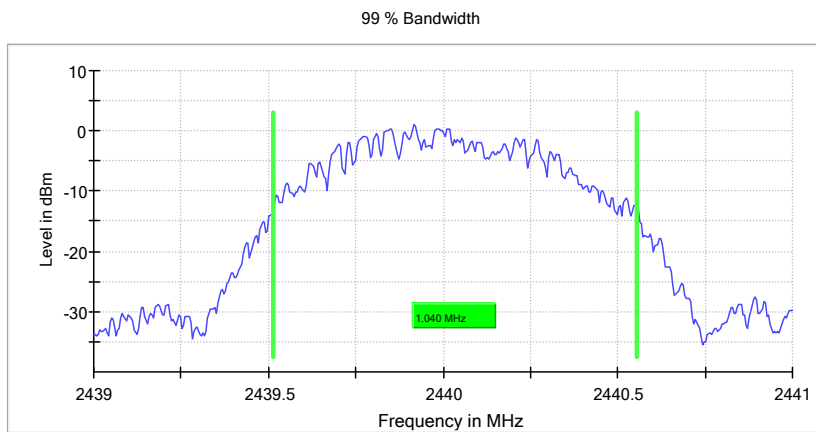
Occupied Channel Bandwidth 99% (2440 MHz; 20.000 dBm; 1 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.040000	---	---	2439.512500	2440.552500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; 20.000 dBm; 1 MHz)

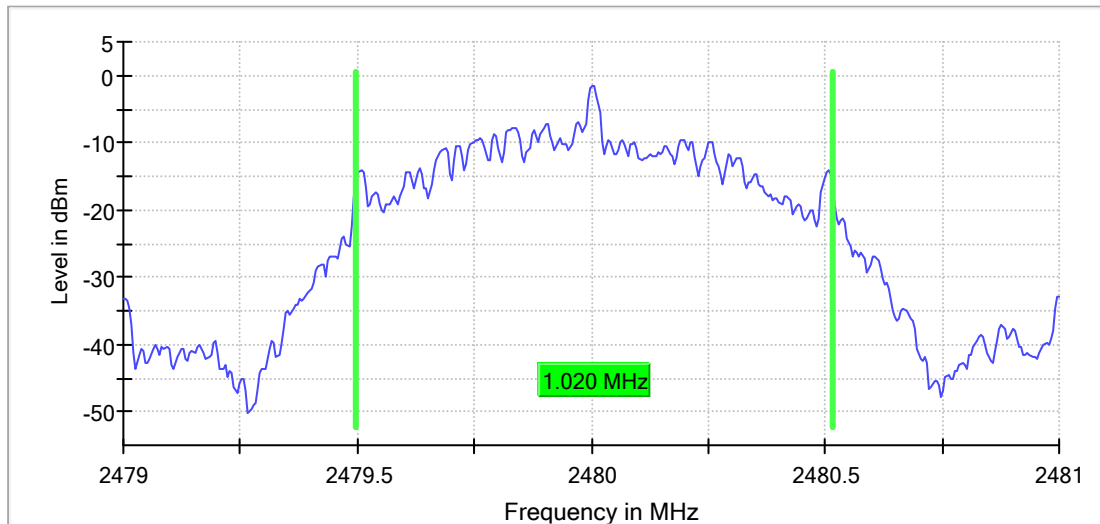
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.020000	---	---	2479.497500	2480.517500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.26 dB	0.30 dB

Bluetooth LE, 2Mbps

Occupied Channel Bandwidth 99% (2402 MHz; 20.000 dBm; 2 MHz)

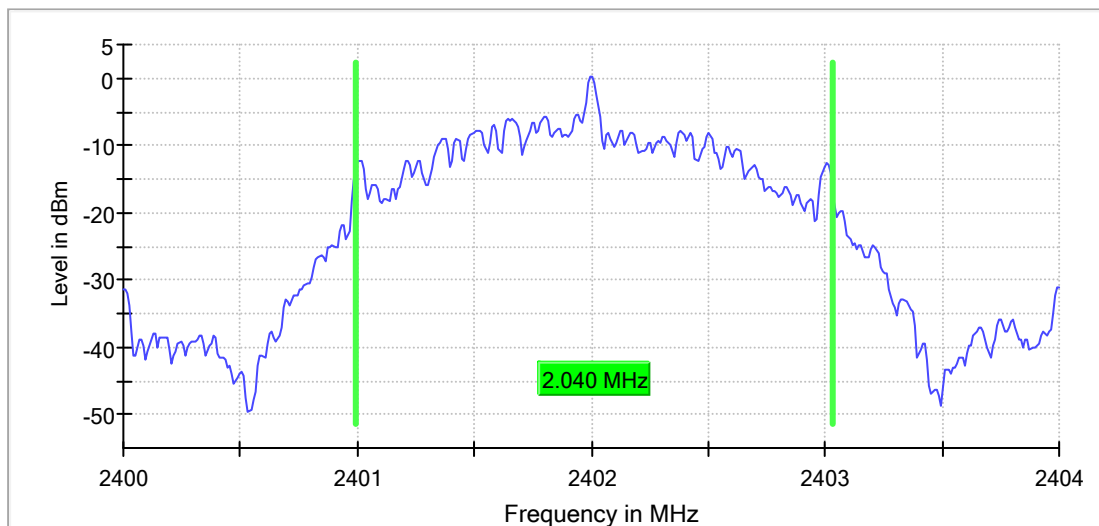
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	2.040000	---	---	2400.995000	2403.035000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	17 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.19 dB	0.30 dB

Occupied Channel Bandwidth 99% (2440 MHz; 20.000 dBm; 2 MHz)

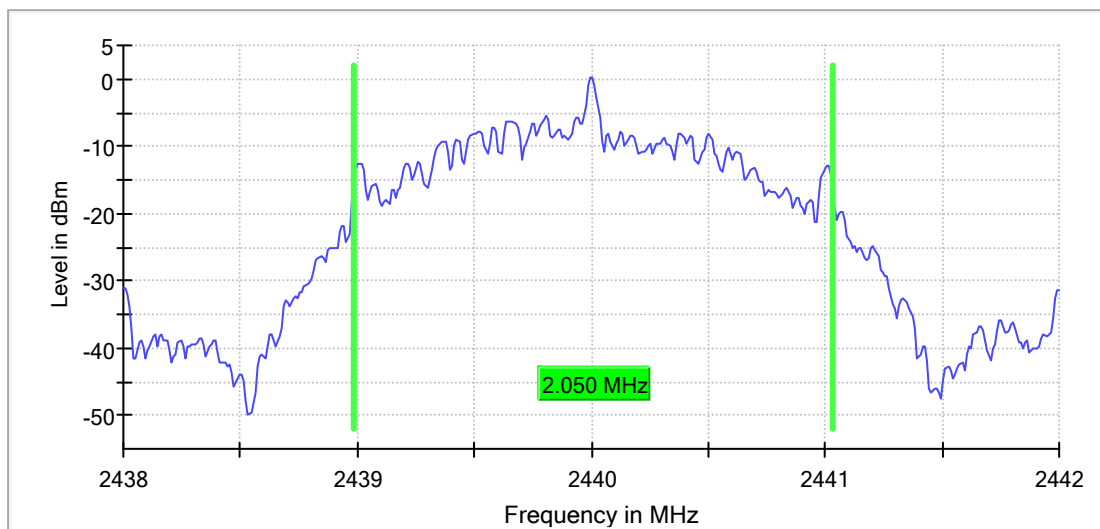
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	2.050000	---	---	2438.985000	2441.035000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	12 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.24 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; 20.000 dBm; 2 MHz)

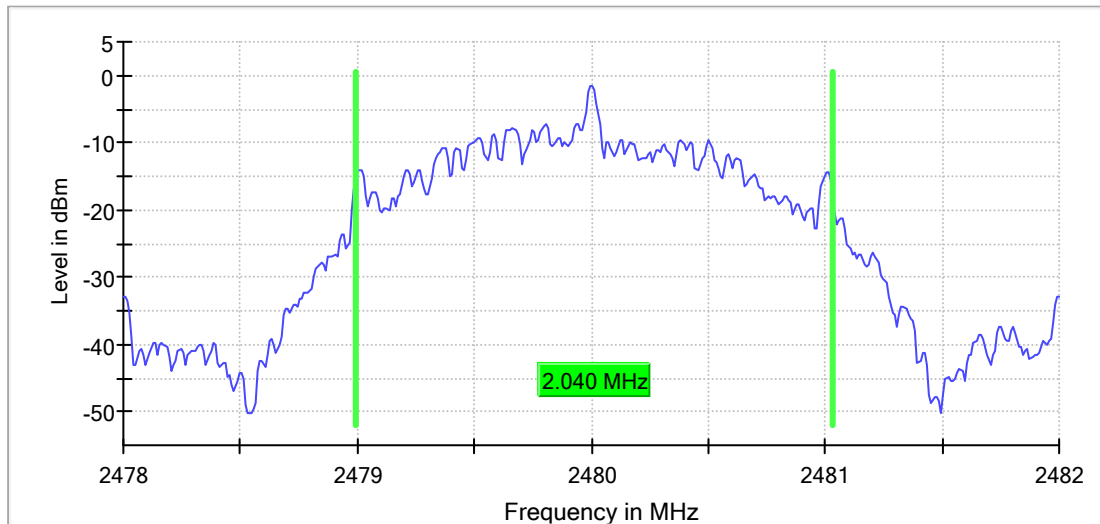
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.040000	---	---	2478.995000	2481.035000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

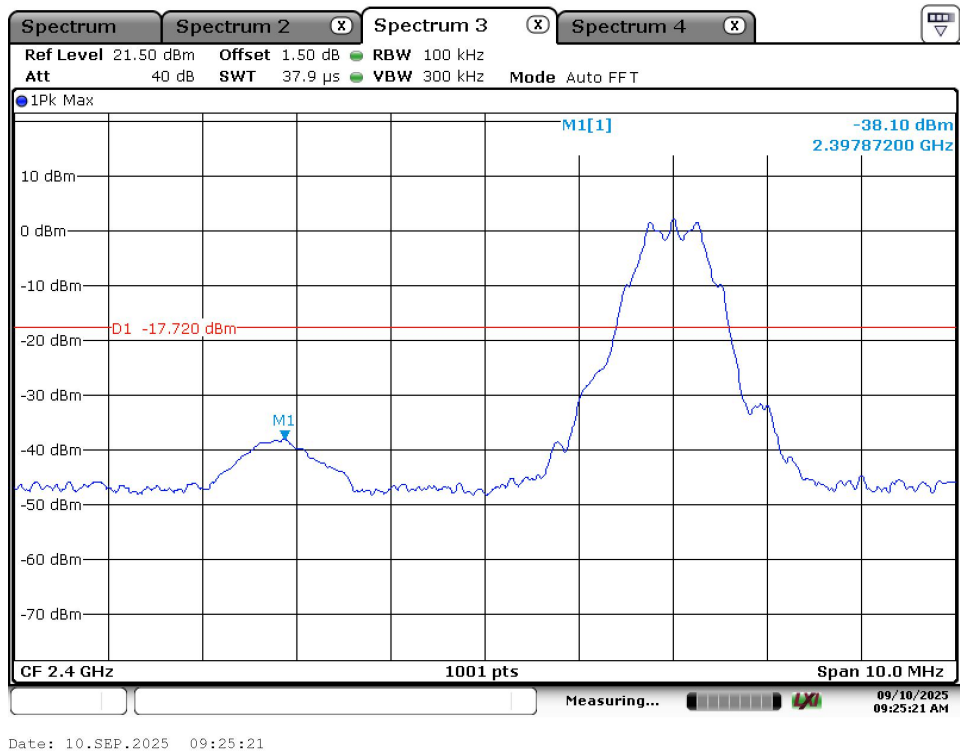
Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
SweepTime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	14 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.11 dB	0.30 dB

Appendix A.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Bluetooth LE, 125kbps

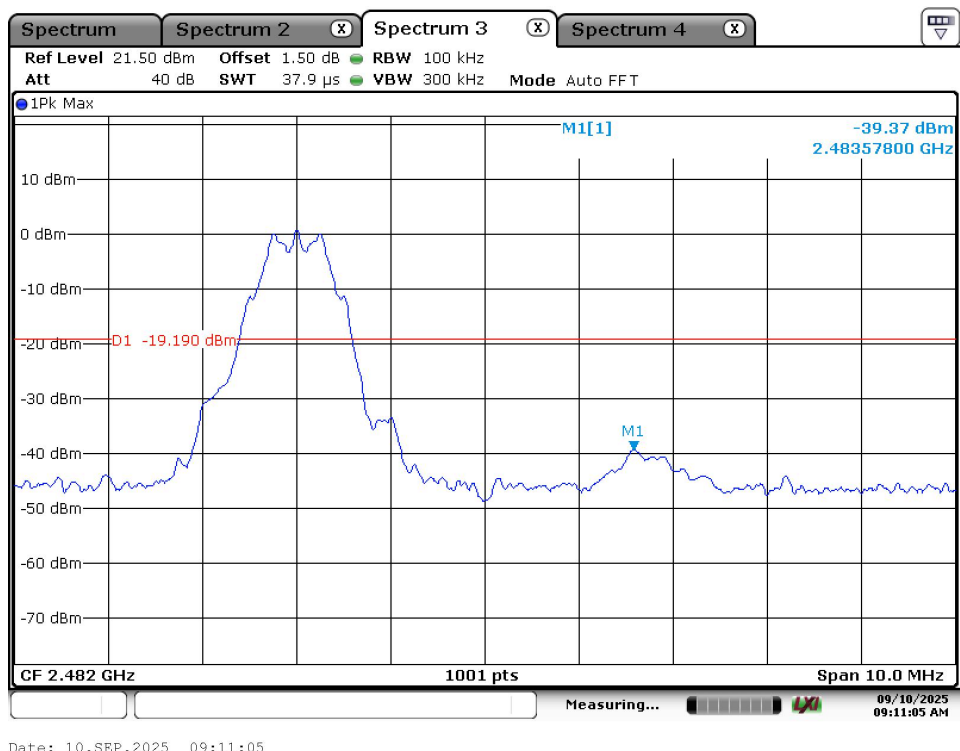
Band Edge

Low Channel



Date: 10.SEP.2025 09:25:21

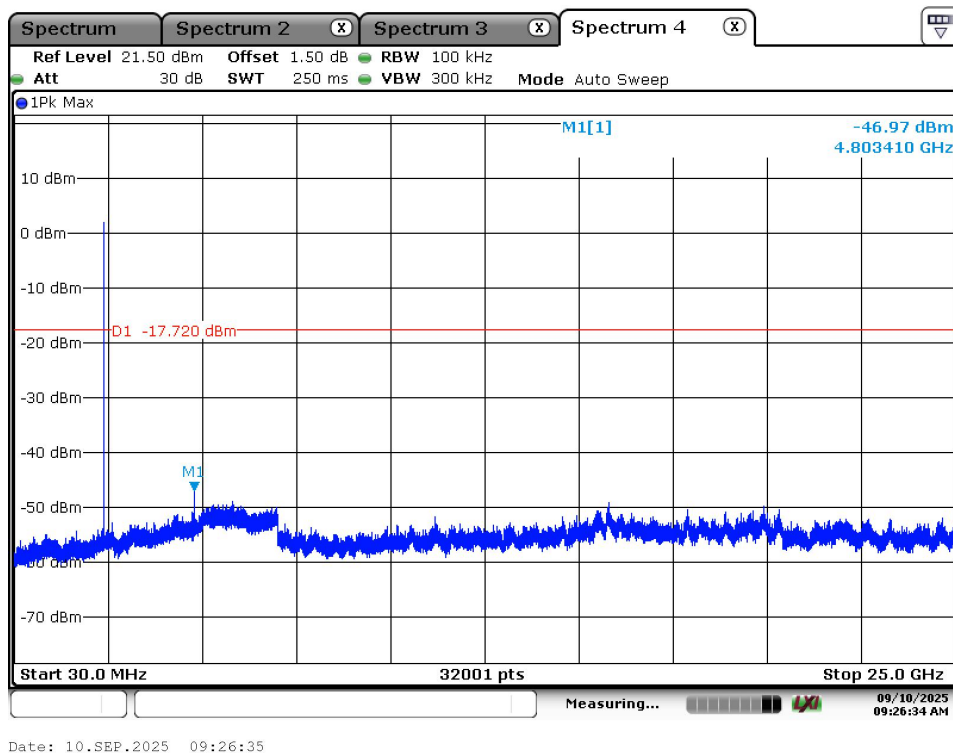
High Channel



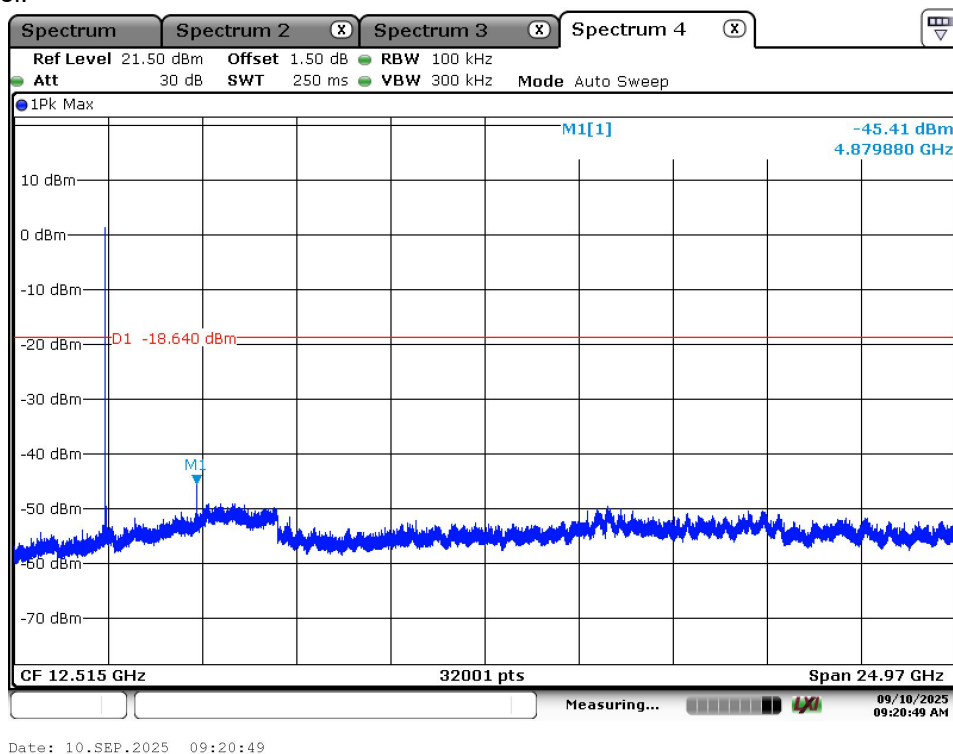
Date: 10.SEP.2025 09:11:05

Conducted Spurious Emission

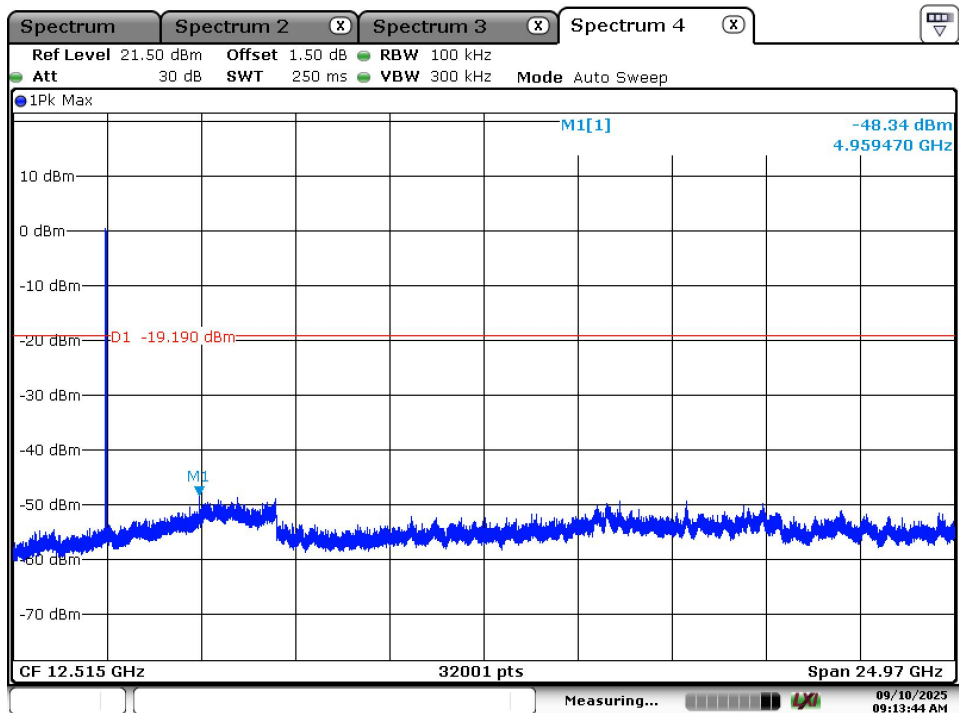
Low Channel:



Middle Channel:



High Channel:

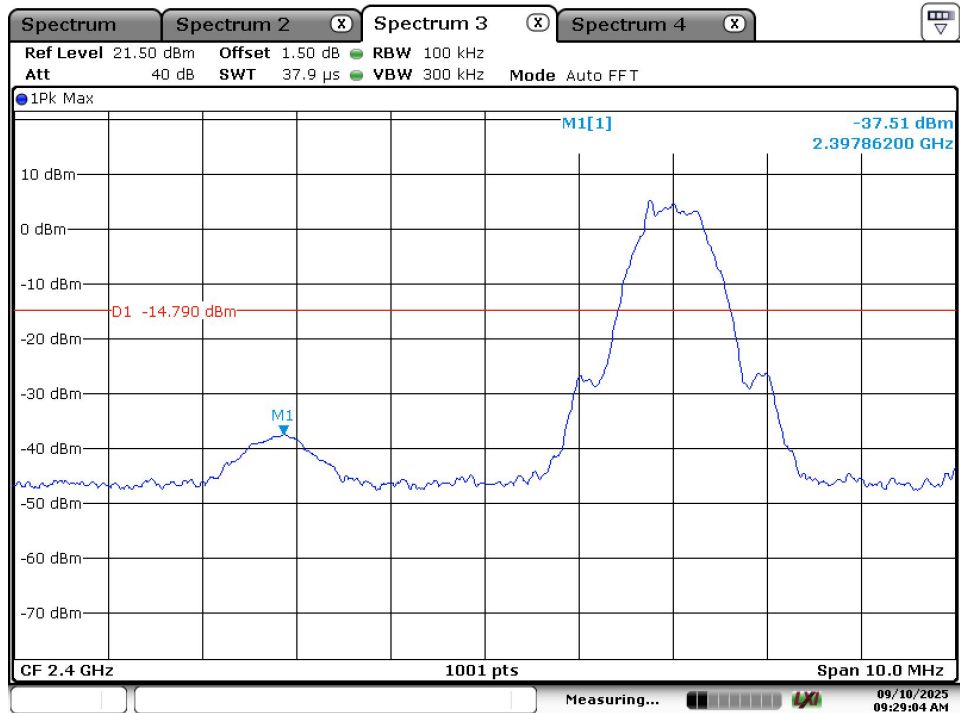


Date: 10.SEP.2025 09:13:45

Bluetooth LE, 500kbps

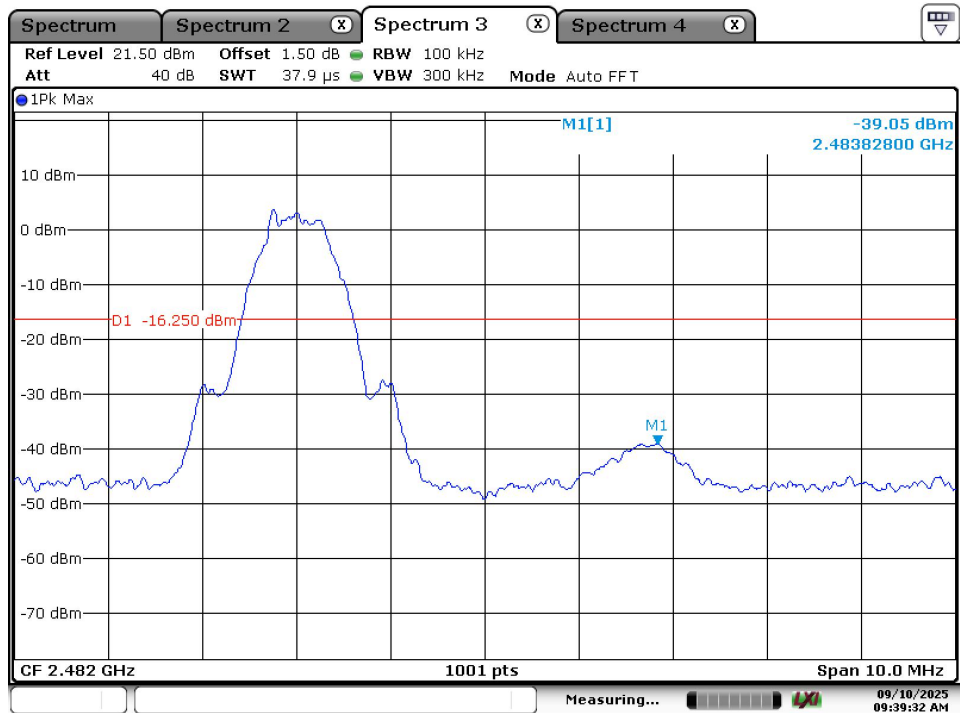
Band Edge

Low Channel



Date: 10.SEP.2025 09:29:04

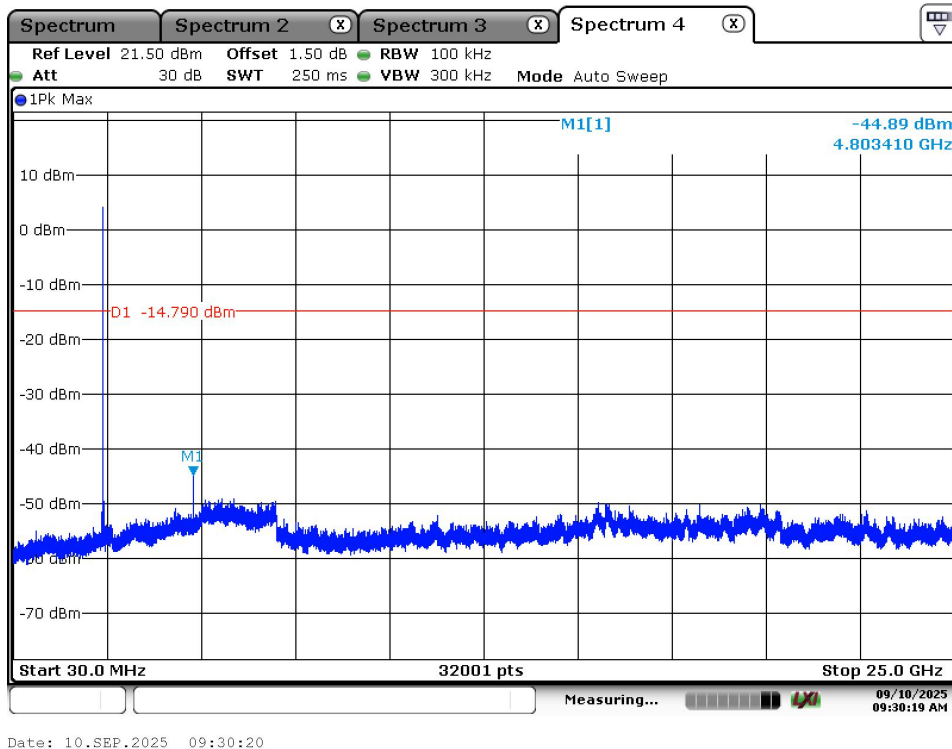
High Channel



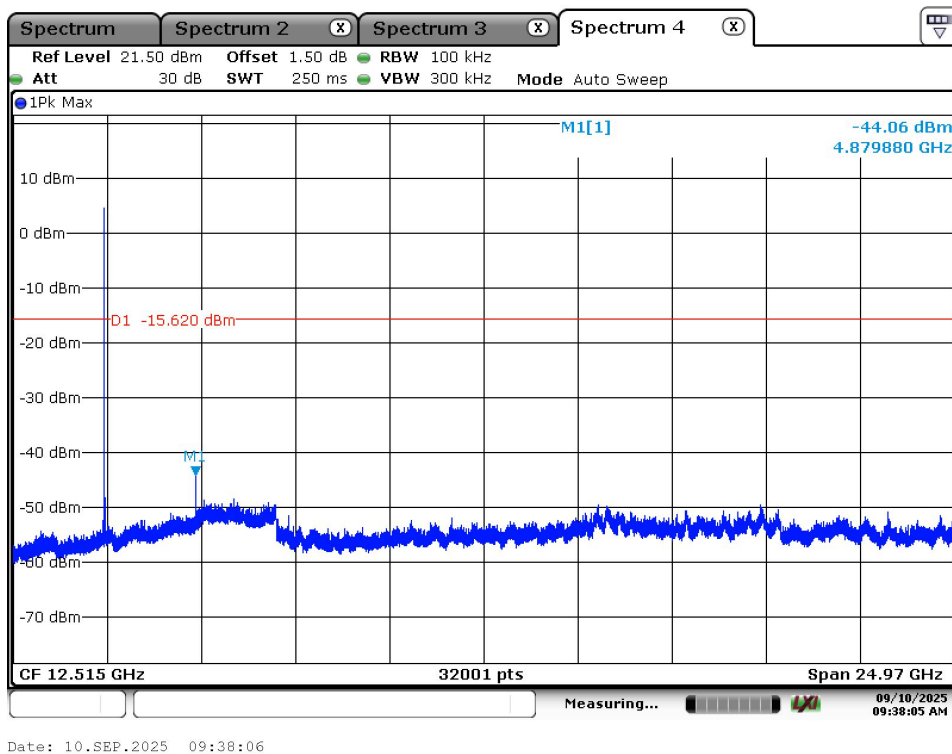
Date: 10.SEP.2025 09:39:32

Conducted Spurious Emission

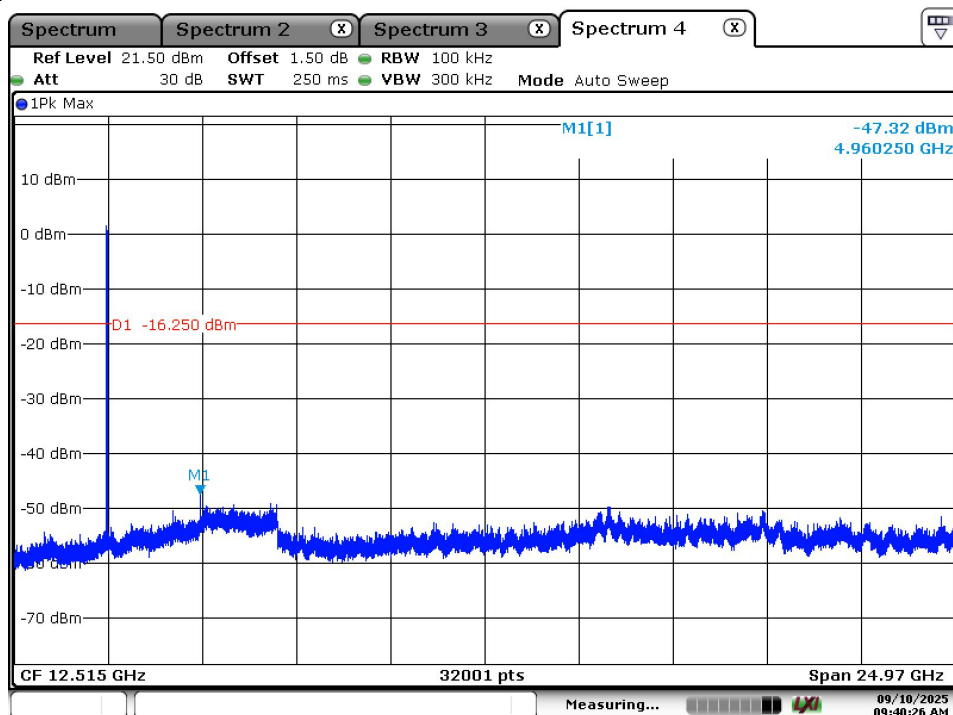
Low Channel:



Middle Channel:



High Channel:

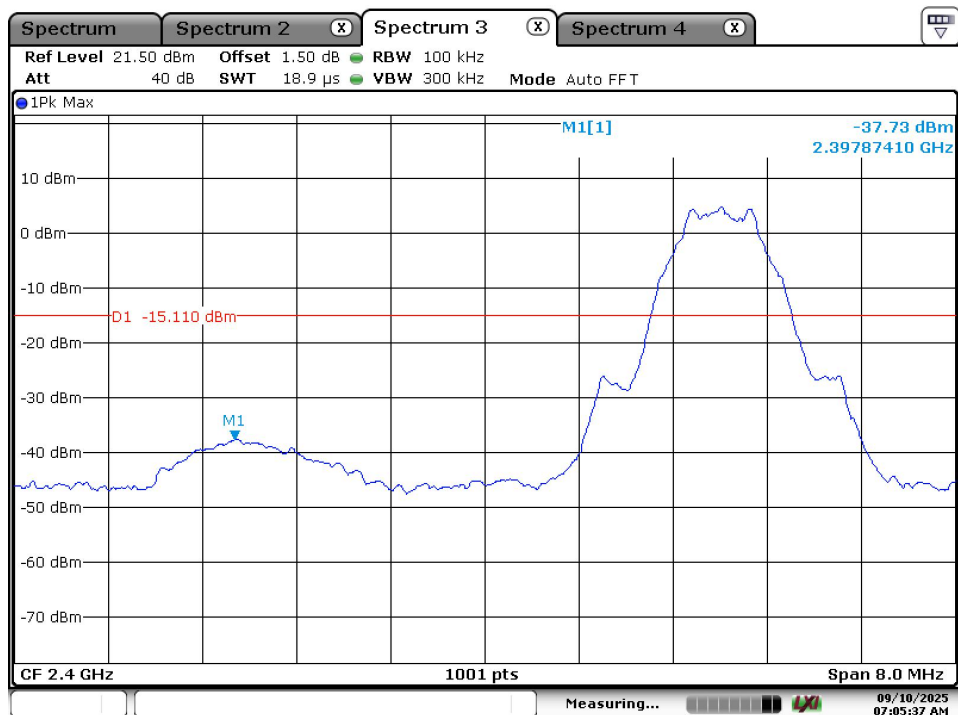


Date: 10.SEP.2025 09:40:26

Bluetooth LE, 1Mbps

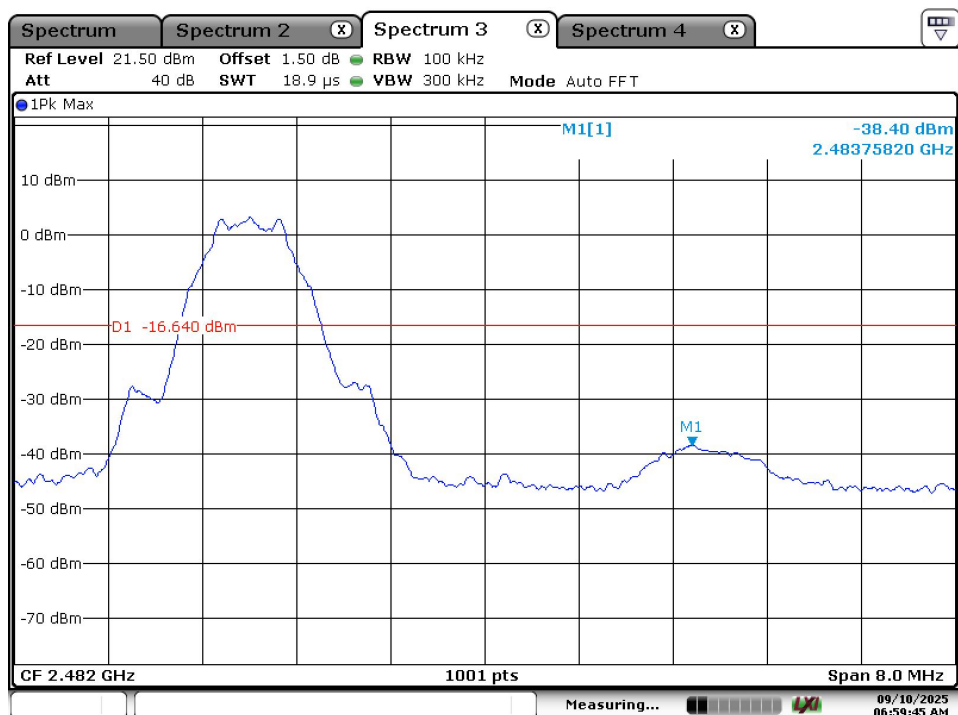
Band Edge

Low Channel



Date: 10.SEP.2025 07:05:37

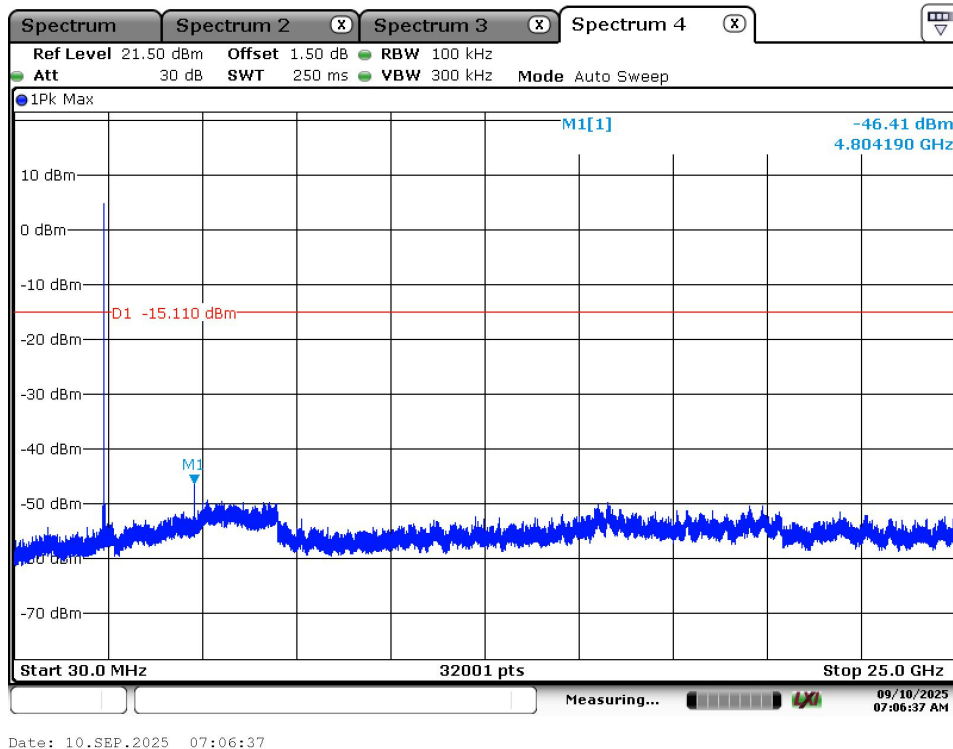
High Channel



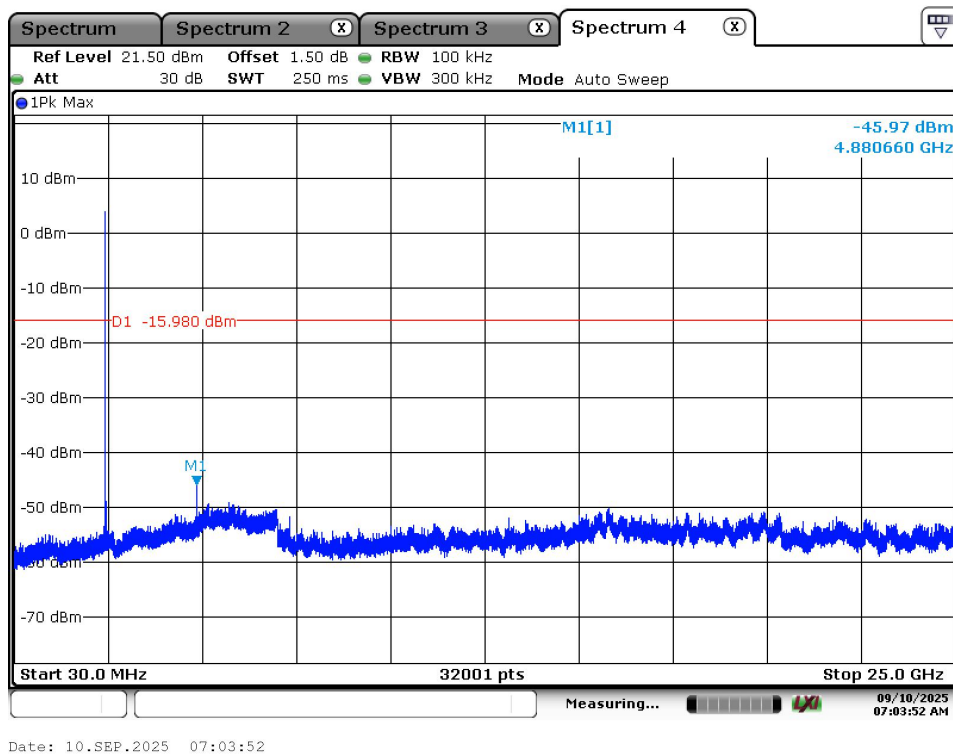
Date: 10.SEP.2025 06:59:45

Conducted Spurious Emission

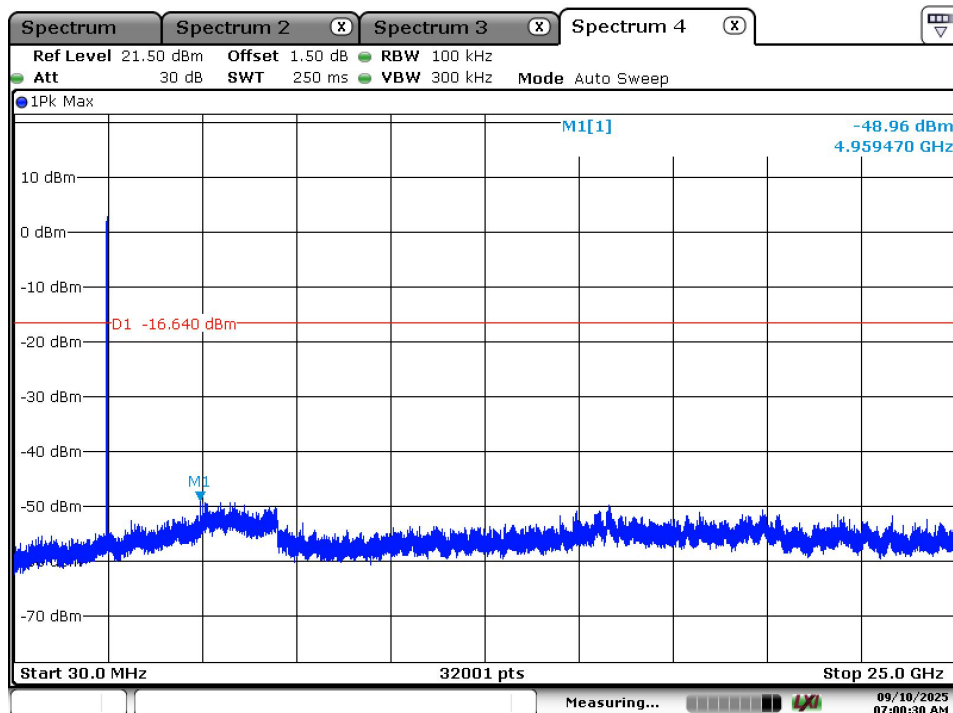
Low Channel:



Middle Channel:



High Channel:

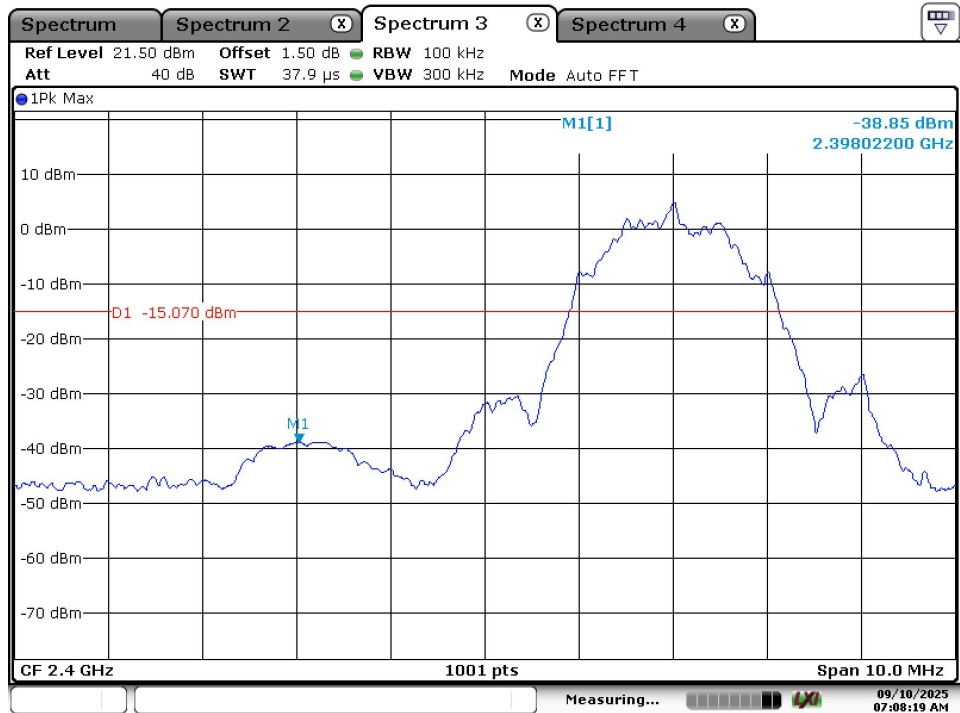


Date: 10.SEP.2025 07:00:30

Bluetooth LE, 2Mbps

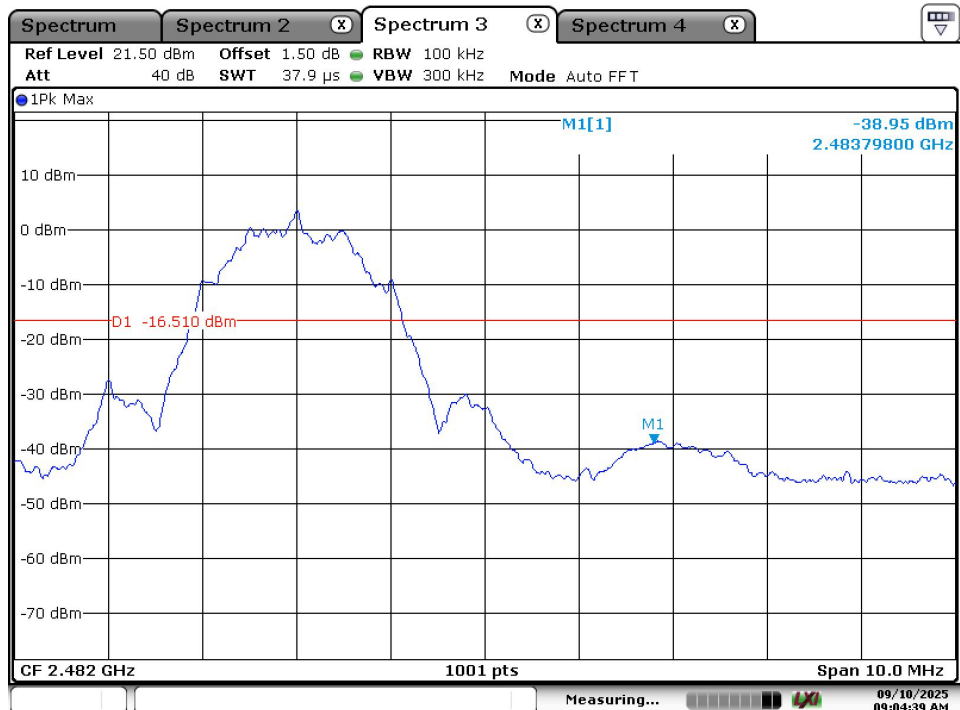
Band Edge

Low Channel



Date: 10.SEP.2025 07:08:19

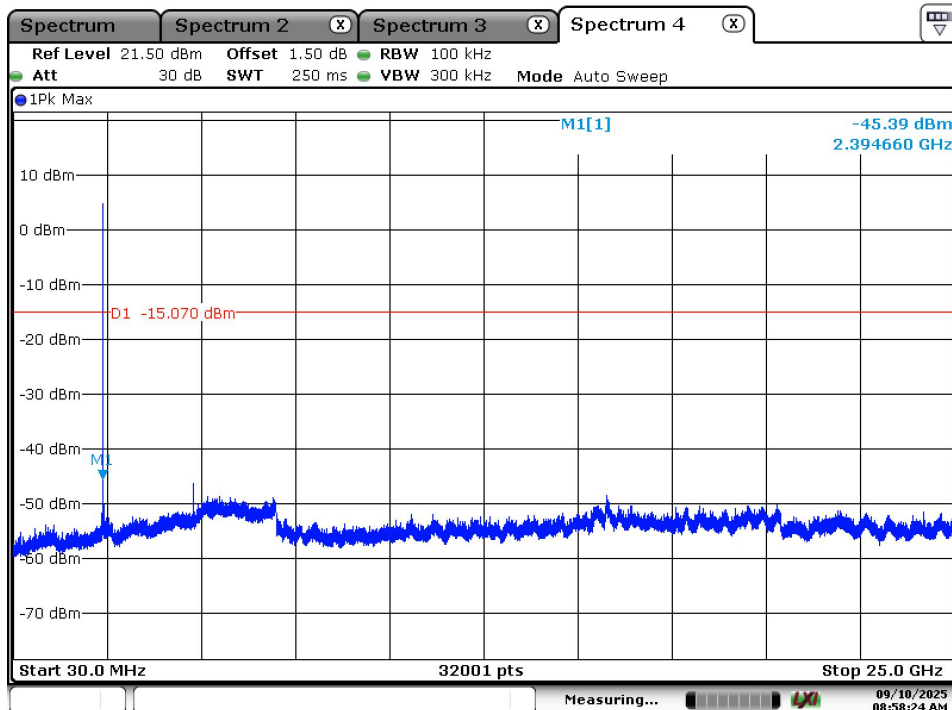
High Channel



Date: 10.SEP.2025 09:04:39

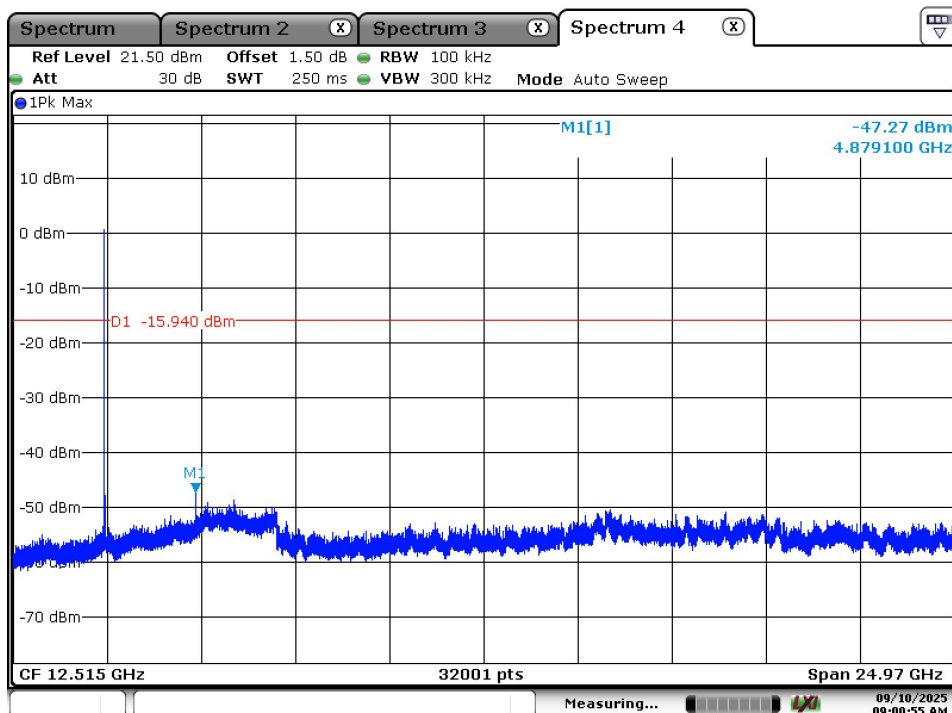
Conducted Spurious Emission

Low Channel:



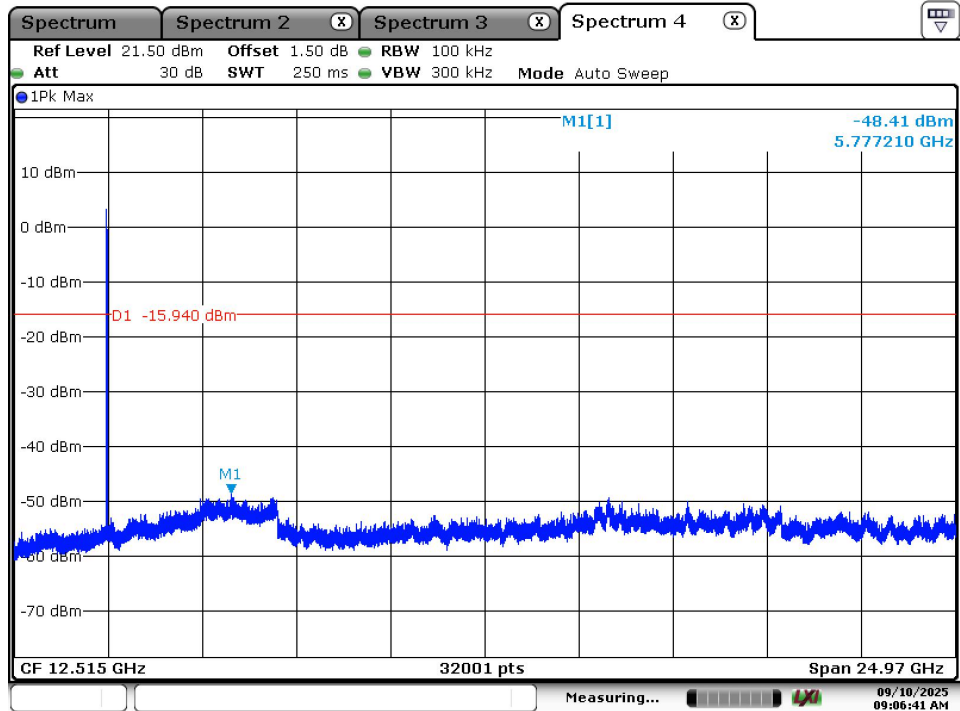
Date: 10.SEP.2025 08:58:24

Middle Channel:



Date: 10.SEP.2025 09:00:55

High Channel:



Date: 10.SEP.2025 09:06:41

Appendix A.5: Test Results of Radiated Spurious Emissions

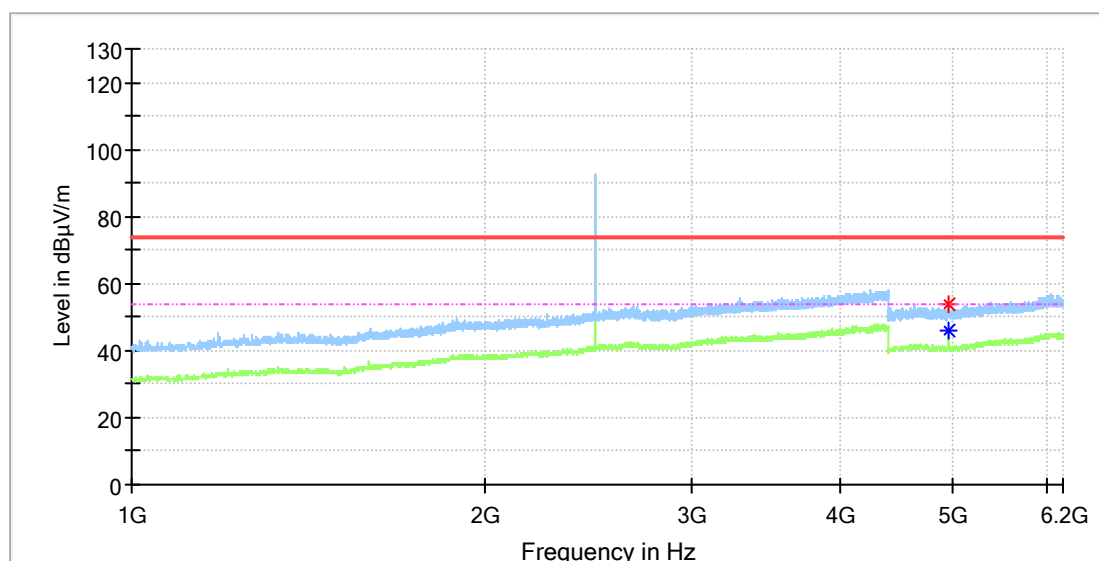
Note:

- 1) This testing was carried out on BLE_125kbps/500kbps/1Mbps/2Mbps type, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	53.77	---	74.00	20.23	150.0	H	152.0	13.3
4960.000000	---	46.10	54.00	7.90	150.0	H	152.0	13.3

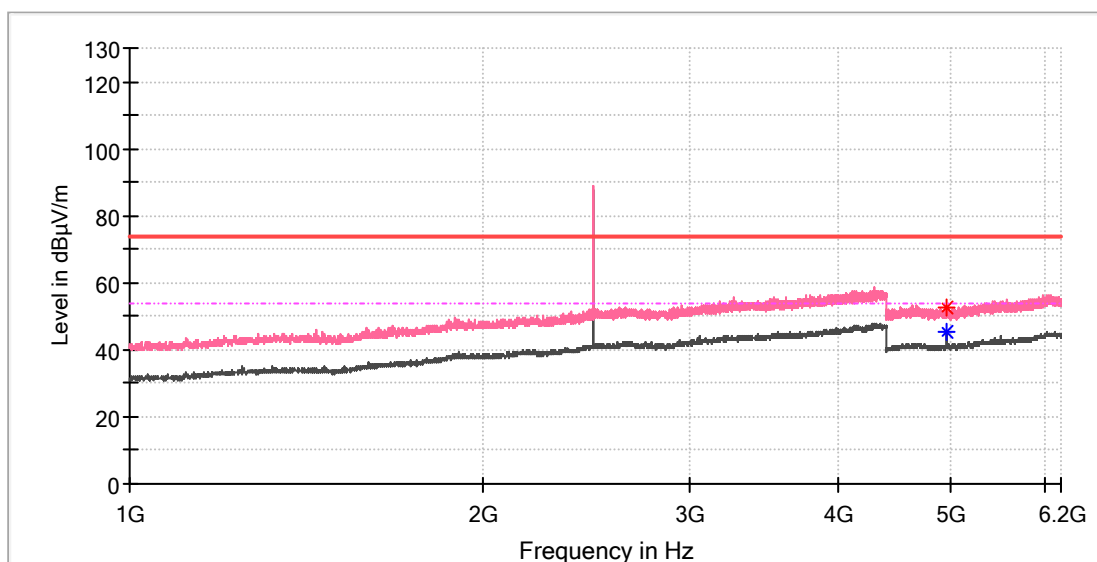
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.65	---	74.00	21.35	150.0	V	157.0	13.3
4960.000000	---	45.08	54.00	8.92	150.0	V	157.0	13.3

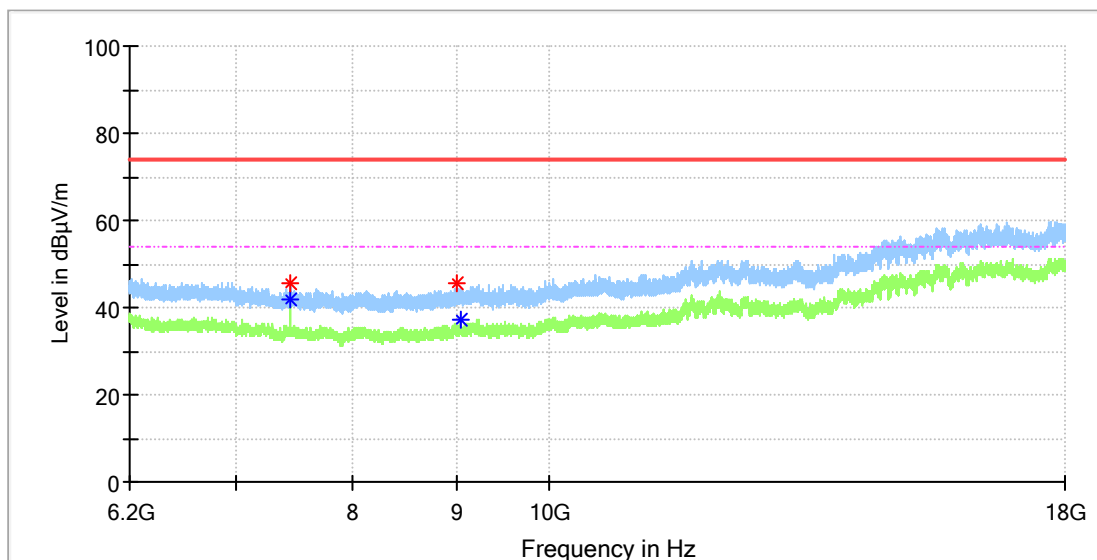
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	122.5	122.5	0	100	V	135	0

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.475000	---	41.74	54.00	12.26	150.0	H	171.0	8.4
7440.475000	45.56	---	74.00	28.44	150.0	H	171.0	8.4
9003.975000	45.69	---	74.00	28.31	150.0	H	359.0	9.5
9043.308333	---	37.01	54.00	16.99	150.0	H	20.0	9.6

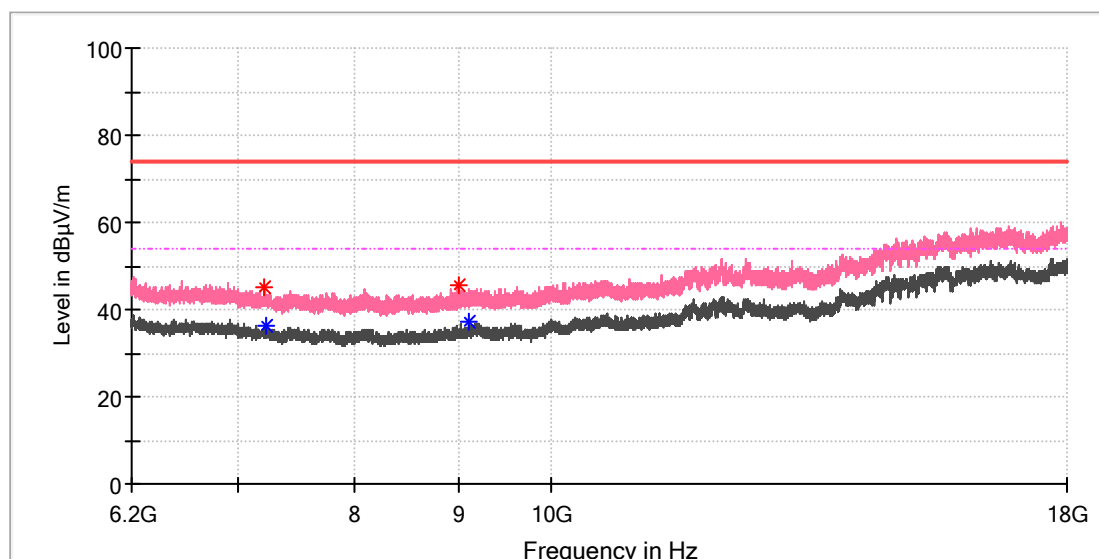
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.241667	44.92	---	74.00	29.08	150.0	V	73.0	8.7
7218.733333	---	36.21	54.00	17.79	150.0	V	5.0	8.7
9011.350000	45.66	---	74.00	28.34	150.0	V	5.0	9.5
9105.750000	---	37.07	54.00	16.93	150.0	V	84.0	10.1

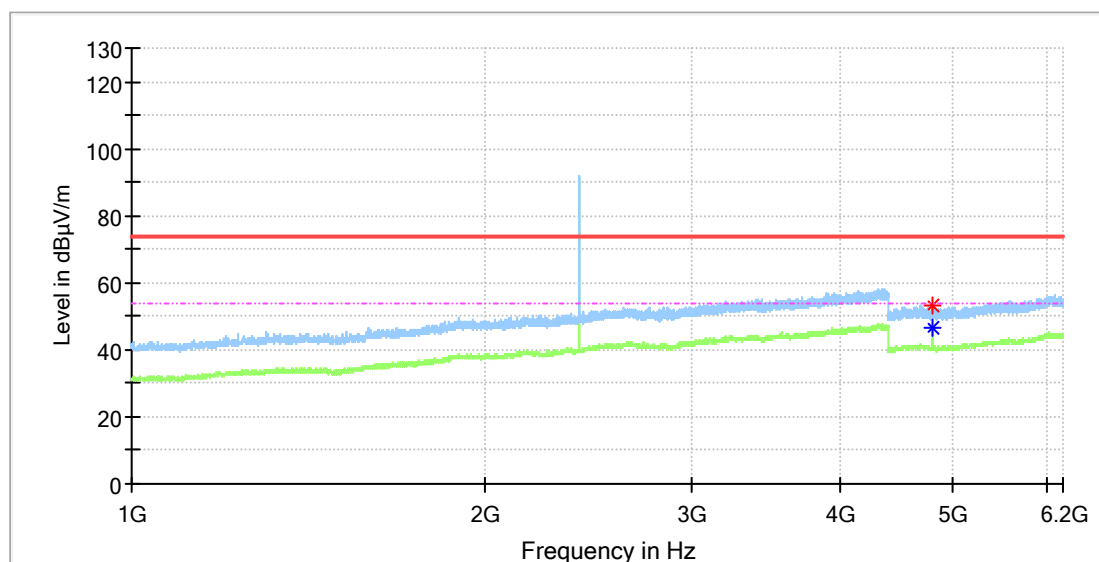
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	53.38	---	74.00	20.62	150.0	H	151.0	13.3
4804.000000	---	46.71	54.00	7.29	150.0	H	279.0	13.3

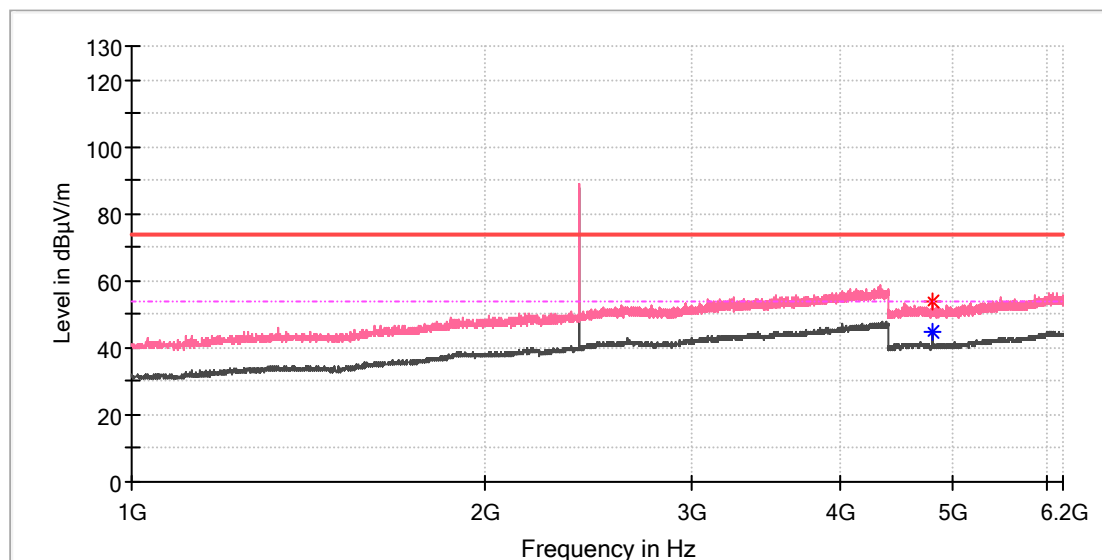
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0
93.7	122.5	118.5	120.0	1.5	100	V	45	0.0
93.7	122.5	118.5	120.0	1.5	100	H	45	0.0
93.7	122.5	118.5	120.0	1.5	100	V	315	0.0
93.7	122.5	118.5	120.0	1.5	100	H	315	0.0
93.7	122.5	118.5	120.0	1.5	100	V	225	0.0
93.7	122.5	118.5	120.0	1.5	100	H	225	0.0
93.7	122.5	118.5	120.0	1.5	100	V	135	0.0
93.7	122.5	118.5	120.0	1.5	100	H	135	0.0</

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	44.82	54.00	9.18	150.0	V	157.0	13.3
4805.000000	53.77	---	74.00	20.23	150.0	V	185.0	13.3

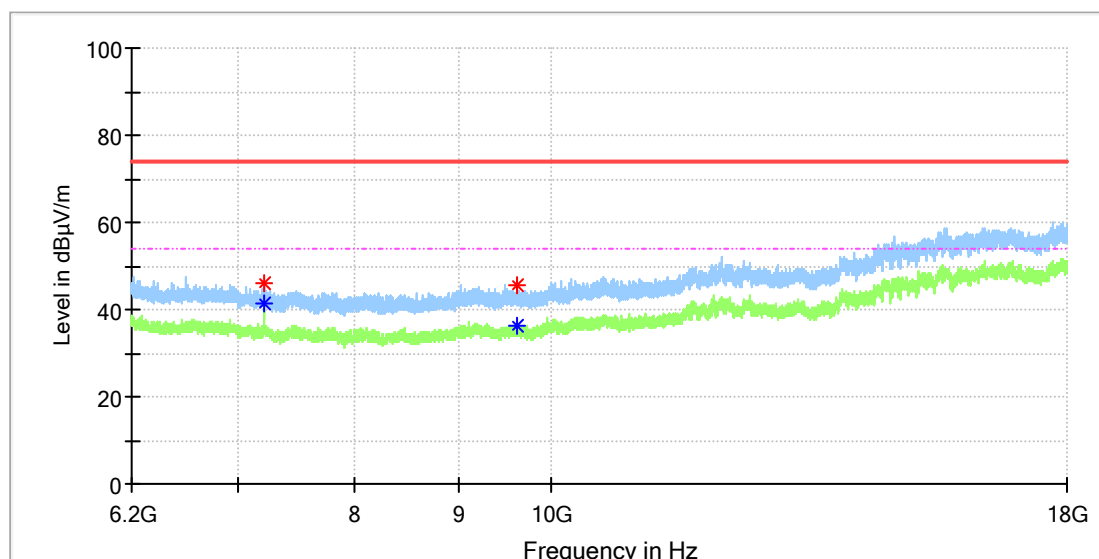
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7204.966667	46.23	---	74.00	27.77	150.0	H	174.0	8.8
7206.441667	---	41.48	54.00	12.52	150.0	H	174.0	8.8
9610.200000	45.48	---	74.00	28.52	150.0	H	196.0	10.4
9619.050000	---	36.46	54.00	17.54	150.0	H	0.0	10.4

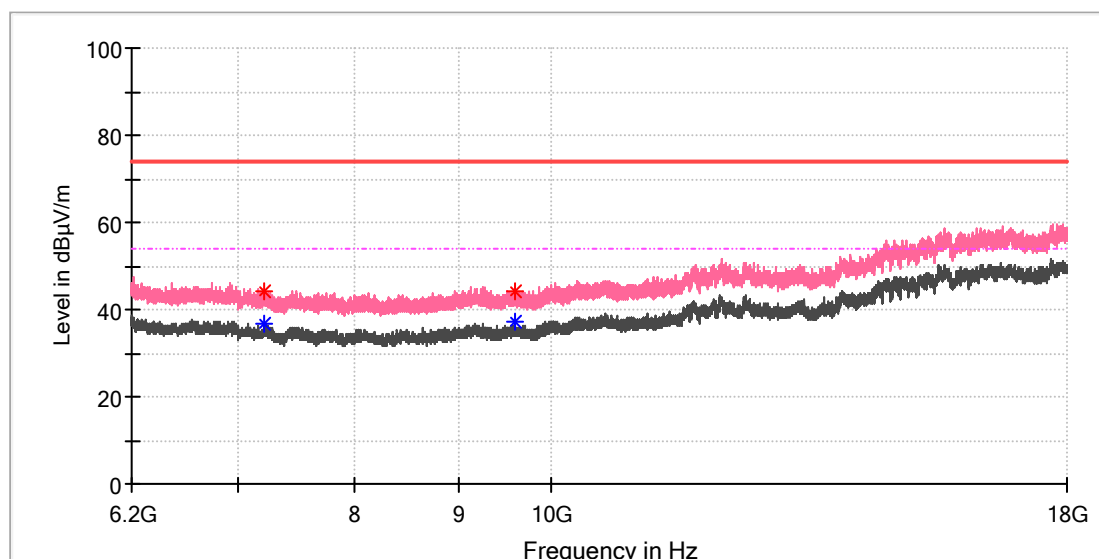
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	---	36.73	54.00	17.27	150.0	V	3.0	8.8
7205.950000	43.95	---	74.00	30.05	150.0	V	192.0	8.8
9587.583333	---	37.13	54.00	16.87	150.0	V	22.0	10.3
9593.483333	44.24	---	74.00	29.76	150.0	V	113.0	10.3

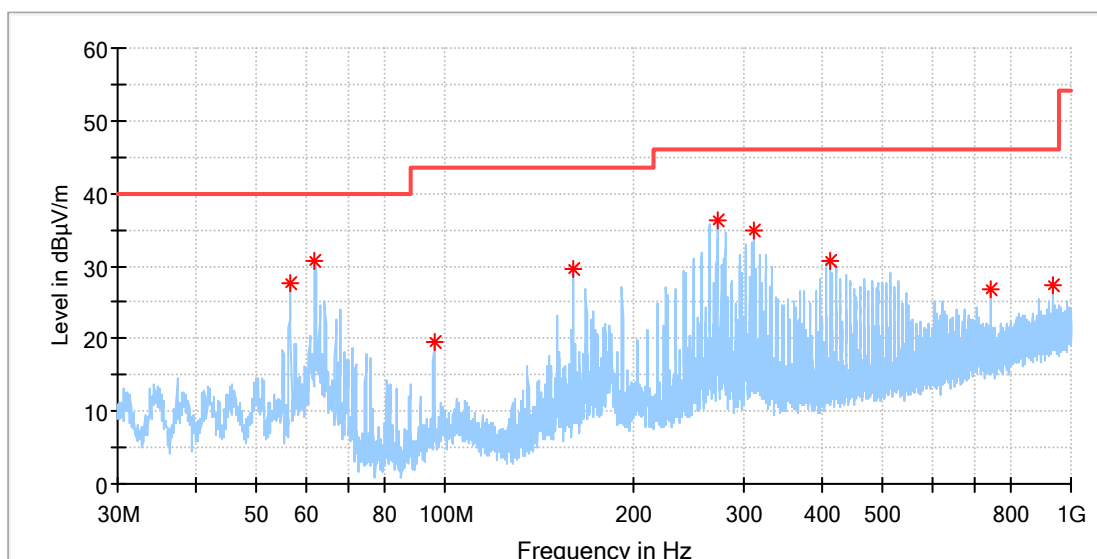
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name: Bluetooth module
Model: MR82-50B
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168573354/A004082138-001
Test Voltage:: DC 3.3V
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.600385	27.66	40.00	12.34	100.0	H	283.0	-18.7
62.047308	30.81	40.00	9.19	100.0	H	138.0	-19.6
95.997308	19.66	43.50	23.84	100.0	H	293.0	-19.7
160.017308	29.55	43.50	13.95	100.0	H	251.0	-21.8
272.313462	36.18	46.00	9.82	100.0	H	243.0	-16.9
310.628462	34.93	46.00	11.07	100.0	H	231.0	-16.0
413.821539	30.76	46.00	15.24	100.0	H	74.0	-13.4
742.502308	26.91	46.00	19.09	100.0	H	346.0	-7.2
937.546923	27.42	46.00	18.58	100.0	H	154.0	-4.4

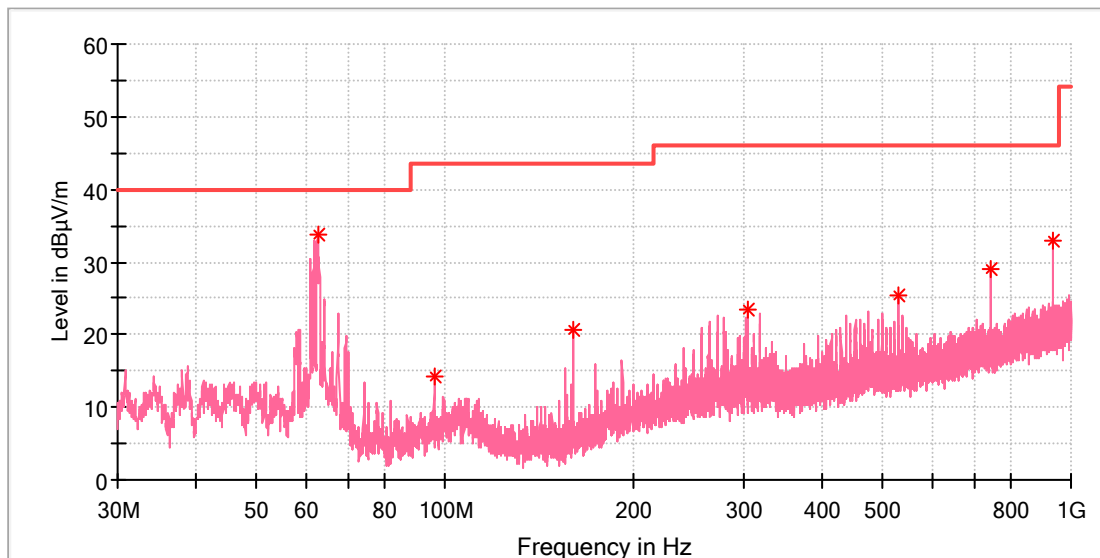
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.606923	33.69	40.00	6.31	100.0	V	222.0	-19.7
95.997308	14.30	43.50	29.20	100.0	V	214.0	-19.7
160.017308	20.63	43.50	22.87	100.0	V	288.0	-21.8
305.591923	23.38	46.00	22.62	100.0	V	262.0	-16.1
528.766539	25.48	46.00	20.52	100.0	V	271.0	-11.2
742.502308	28.90	46.00	17.10	100.0	V	206.0	-7.2
937.546923	32.80	46.00	13.20	100.0	V	214.0	-4.4

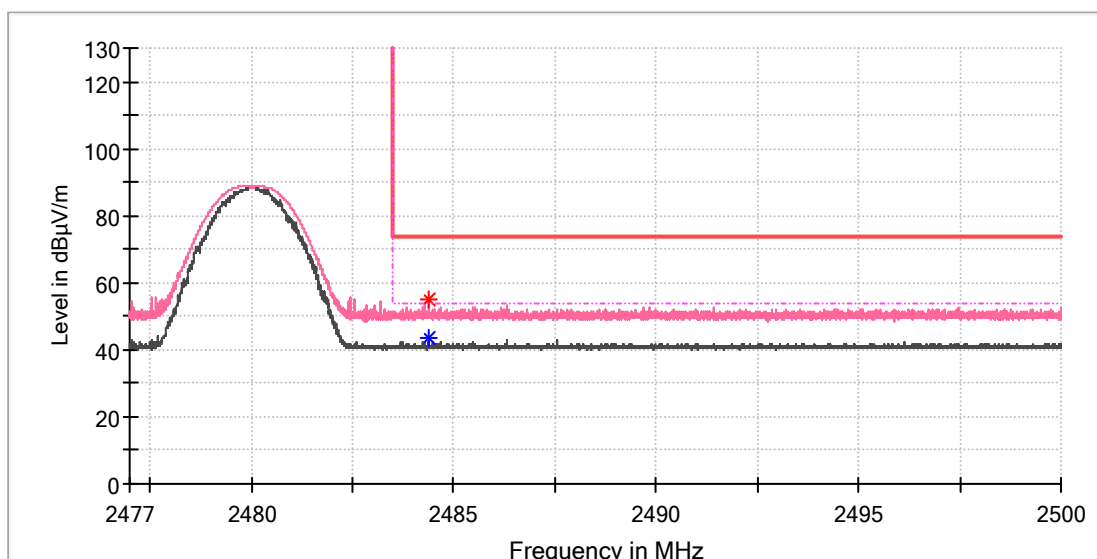
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.373530	---	43.47	54.00	10.53	150.0	V	289.0	9.0
2484.373530	54.85	---	74.00	19.15	150.0	V	289.0	9.0

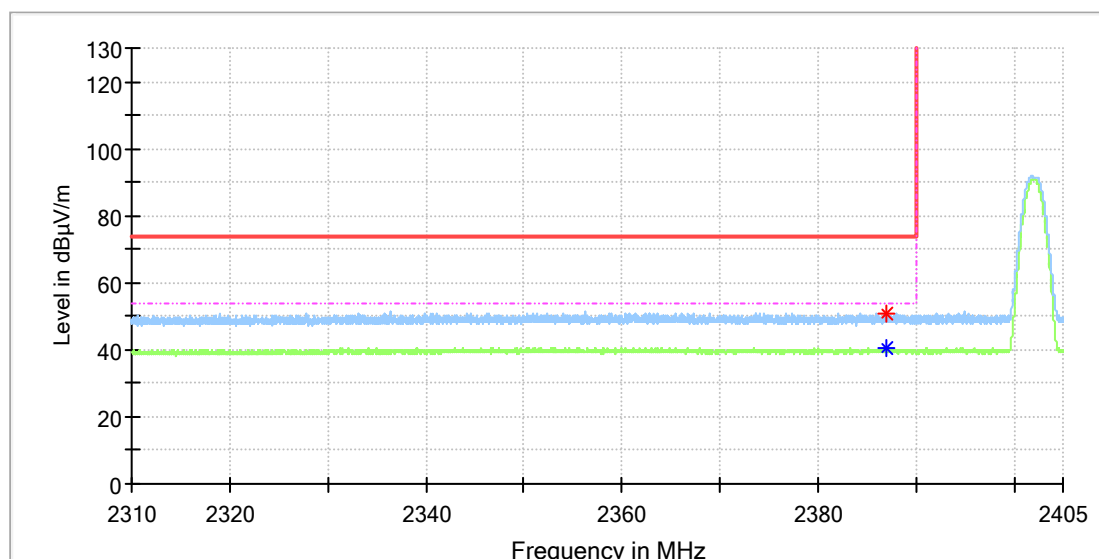
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.047794	50.74	---	74.00	23.26	150.0	H	305.0	8.5
2387.061765	---	40.22	54.00	13.78	150.0	H	242.0	8.5

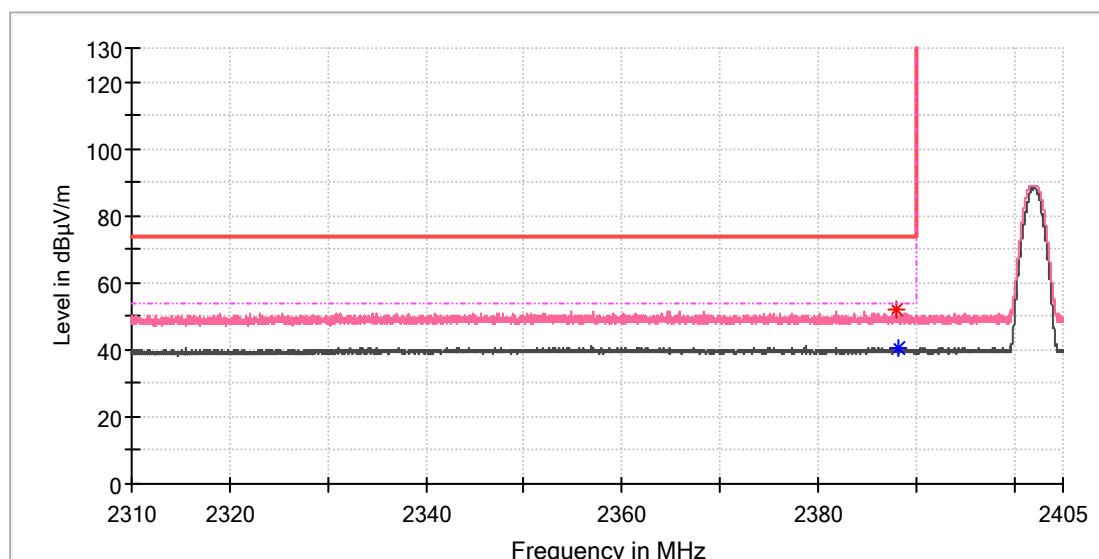
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.955882	51.82	---	74.00	22.18	150.0	V	4.0	8.5
2388.277206	---	40.43	54.00	13.57	150.0	V	323.0	8.5

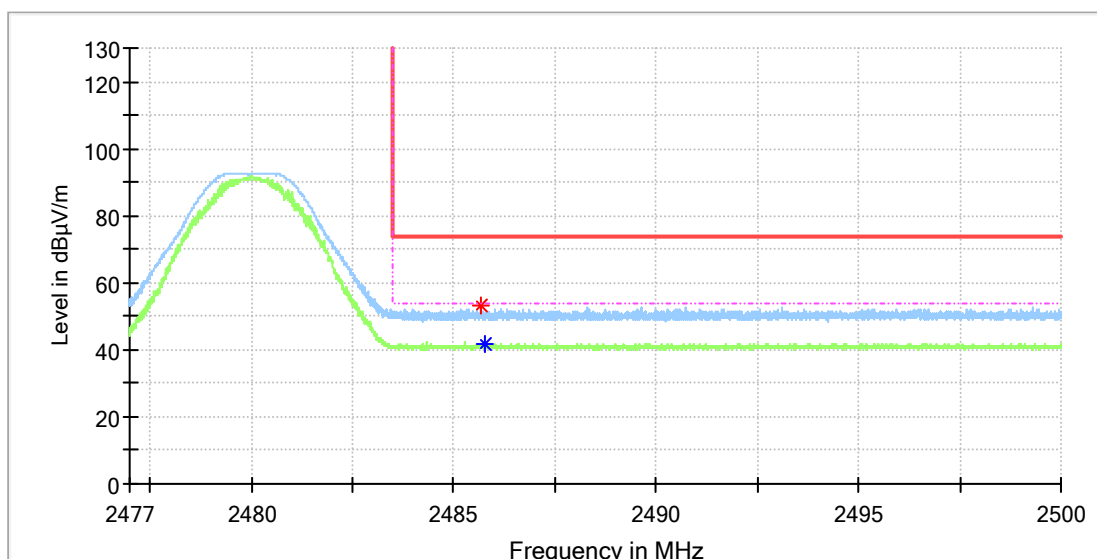
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000	100.000	100.000	100.000	100.000	100.000		100.000	100.000

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.682500	53.37	---	74.00	20.63	150.0	H	66.0	9.0
2485.777206	---	41.73	54.00	12.27	150.0	H	46.0	9.0

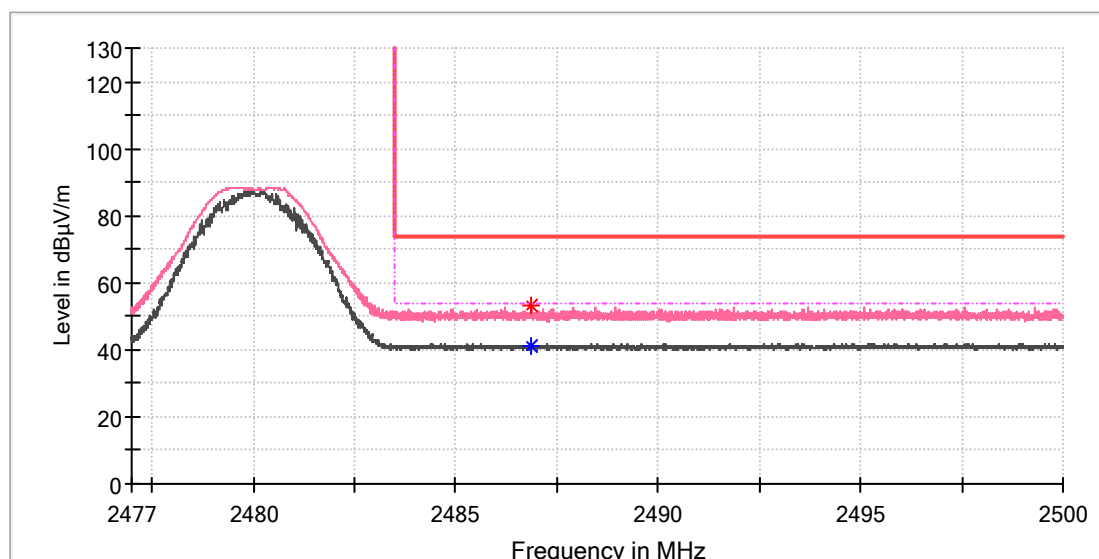
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.859559	---	41.02	54.00	12.98	150.0	V	235.0	9.0
2486.886618	53.23	---	74.00	20.77	150.0	V	339.0	9.0

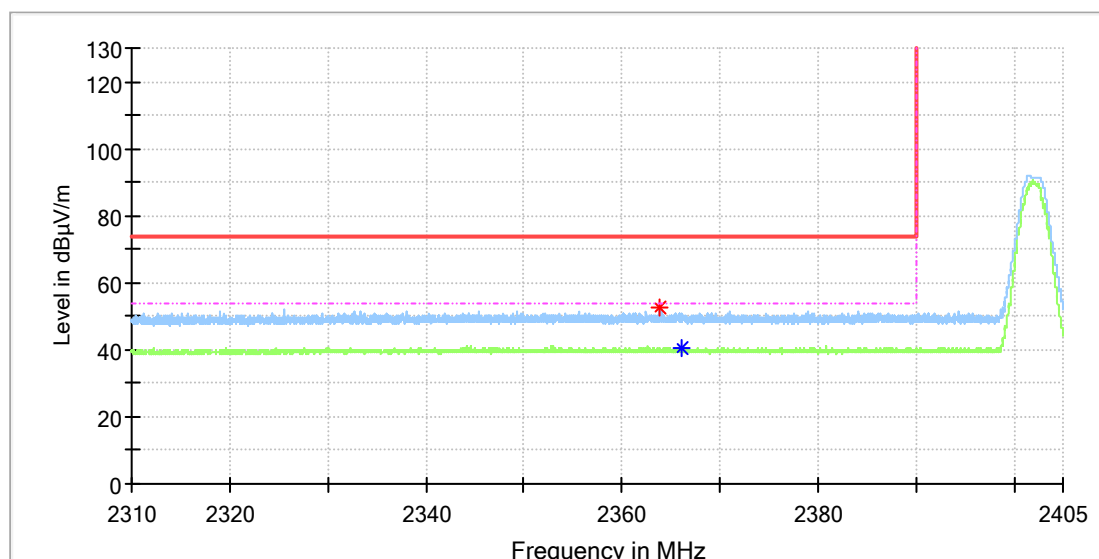
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0
93.7	122.0	118.0	120.0	2.0	100	V	45	0.0
93.7	122.0	118.0	120.0	2.0	100	H	45	0.0
93.7	122.0	118.0	120.0	2.0	100	V	315	0.0
93.7	122.0	118.0	120.0	2.0	100	H	315	0.0
93.7	122.0	118.0	120.0	2.0	100	V	225	0.0
93.7	122.0	118.0	120.0	2.0	100	H	225	0.0
93.7	122.0	118.0	120.0	2.0	100	V	135	0.0
93.7	122.0	118.0	120.0	2.0	100	H	135	0.0</

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2363.898530	52.76	---	74.00	21.24	150.0	H	6.0	8.5
2366.036030	---	40.50	54.00	13.50	150.0	H	0.0	8.5

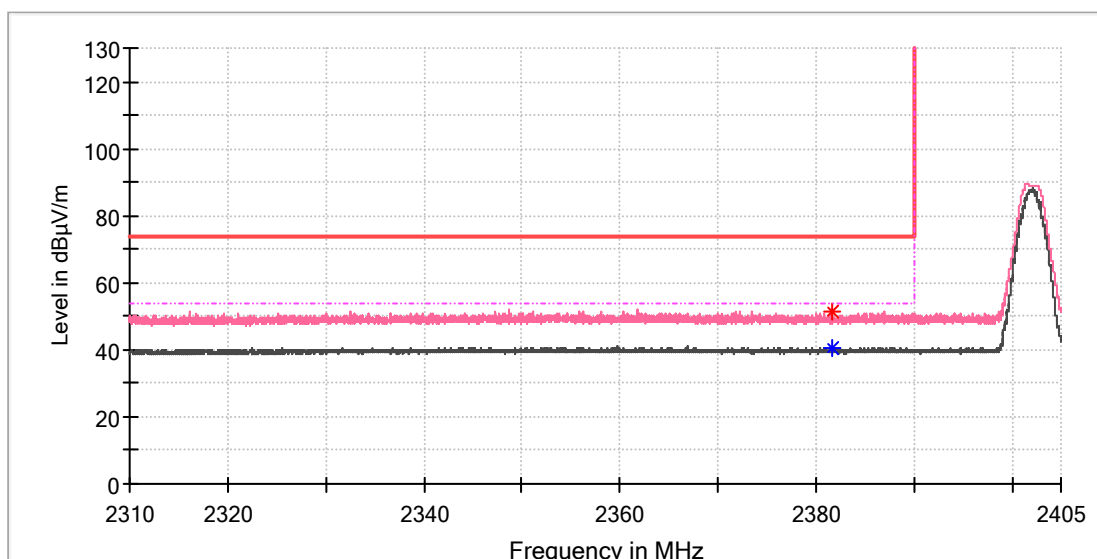
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Test Report

EUT Information

EUT Name:	Bluetooth module
Model:	MR82-50B
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168573354/A004082138-001
Test Voltage::	DC 3.3V
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2381.557353	51.69	---	74.00	22.32	150.0	V	115.0	8.5
2381.627206	---	40.26	54.00	13.74	150.0	V	349.0	8.5

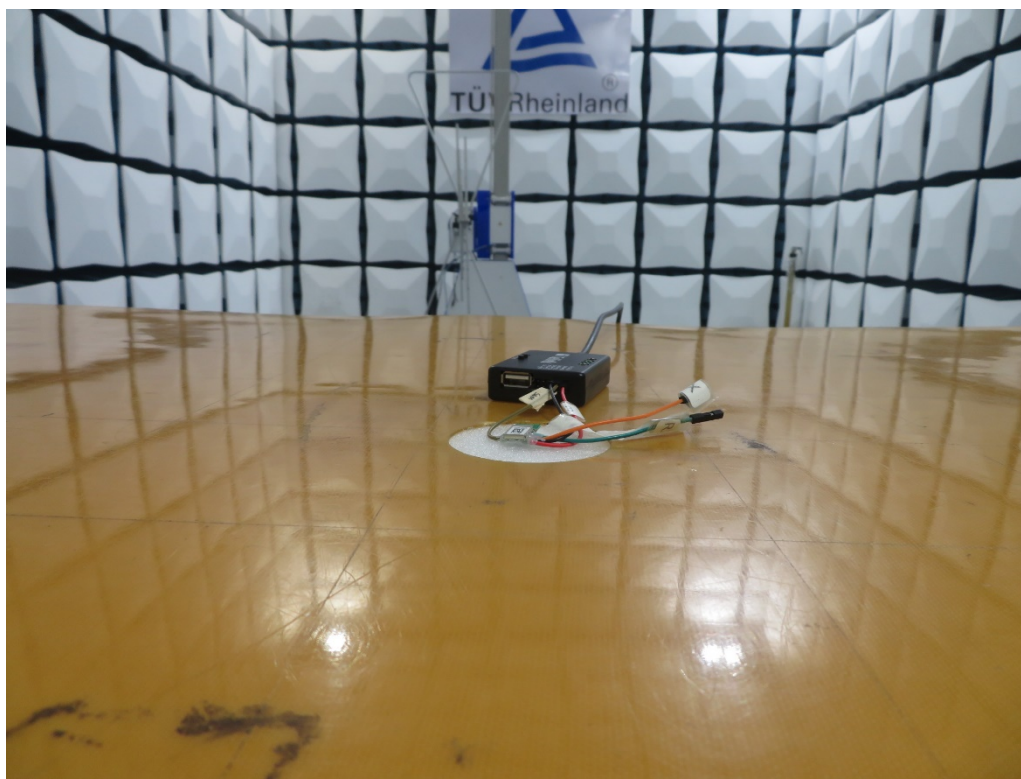
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Appendix B: Photographs of the Test Set-Up

APPENDIX B: PHOTOGRAPHS OF THE TEST SET-UP	1
PHOTOGRAPH 1: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, 30MHz - 1GHz	2
PHOTOGRAPH 2: SET-UP PHOTO FOR RADIATED SPURIOUS EMISSION, 1GHz - 18GHz	2

Photograph 1: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz



Photograph 2: Set-up photo for Radiated Spurious Emission, 1GHz - 18GHz

