

Appendix A: Test Results of Bluetooth BR & EDR

APPENDIX A: TEST RESULTS OF BLUETOOTH BR & EDR	1
APPENDIX A.1: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY	2
<i>BR mode (DH5)</i>	2
<i>EDR mode (3-DH5)</i>	3
APPENDIX A.2: TEST RESULTS OF TIME OF OCCUPANCY	4
<i>BR mode (DH5)</i>	4
<i>EDR mode (3-DH5)</i>	7
APPENDIX A.3: TEST RESULTS OF 20DB BANDWIDTH	10
<i>BR mode (DH5)</i>	10
<i>EDR mode (3-DH5)</i>	13
APPENDIX A.4: TEST RESULTS OF 99% BANDWIDTH	16
<i>BR mode (DH5)</i>	16
<i>EDR mode (3-DH5)</i>	19
APPENDIX A.5: TEST RESULTS OF CARRIER FREQUENCY SEPARATION	22
<i>BR mode (DH5)</i>	22
<i>EDR mode (3-DH5)</i>	23
APPENDIX A.6: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH	25
<i>BR mode (DH5)</i>	25
Fixed mode, Band Edge	25
Fixed mode, Conducted Spurious Emission	26
Hopping Mode, Band Edge	29
Hopping Mode, Conducted Spurious Emission	30
<i>EDR mode (3-DH5)</i>	31
Fixed mode, Band Edge	31
Fixed mode, Conducted Spurious Emission	32
Hopping Mode, Band Edge	35
Hopping Mode, Conducted Spurious Emission	36
APPENDIX A.7: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	37
30MHz - 1GHz	37
1GHz - 18GHz	39
30MHz - 1GHz for co-location	51
1GHz - 18GHz for co-location	55
APPENDIX A.8: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	63
APPENDIX A.9: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	67

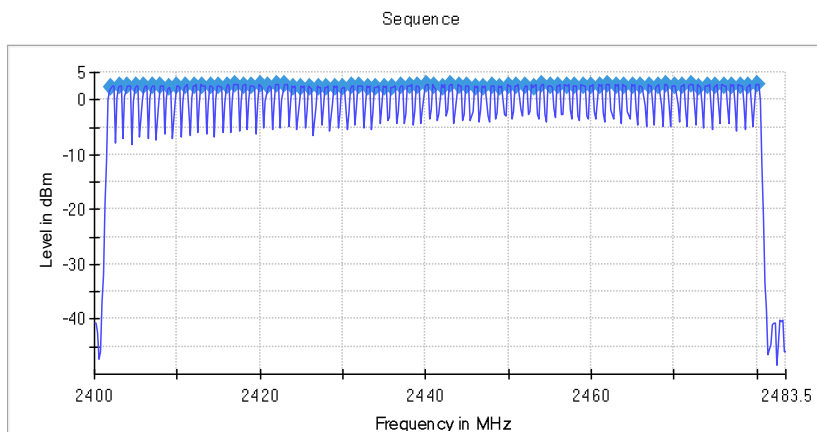
Appendix A.1: Test Results of Number of Hopping Frequency

BR mode (DH5)

Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS



Measurement

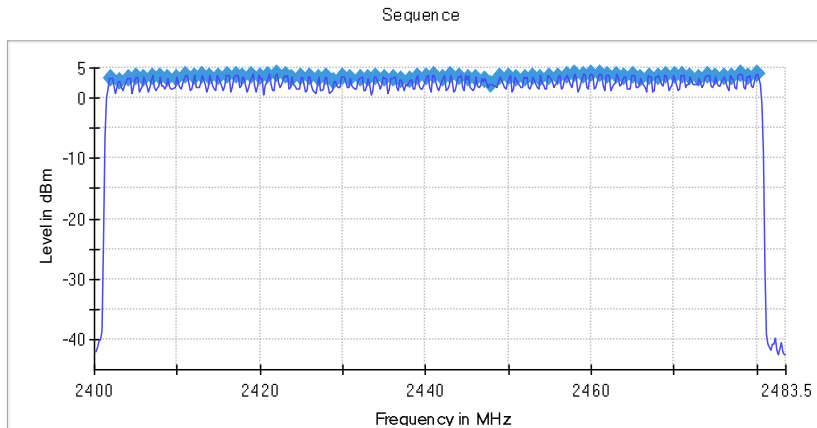
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
SweepTime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	41 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.43 dB	0.50 dB

EDR mode (3-DH5)

Hopping Frequencies (frequency independent; 10.000 dBm; 1 MHz)

Channels

Channels	Limit Min	Limit Max	Result
79	15	---	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
SweepTime	1.060 ms	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	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	136 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.01 dB	0.50 dB

Appendix A.2: Test Results of Time of Occupancy

BR mode (DH5)

Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	319	125.920	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
5.000	196.240	98.744

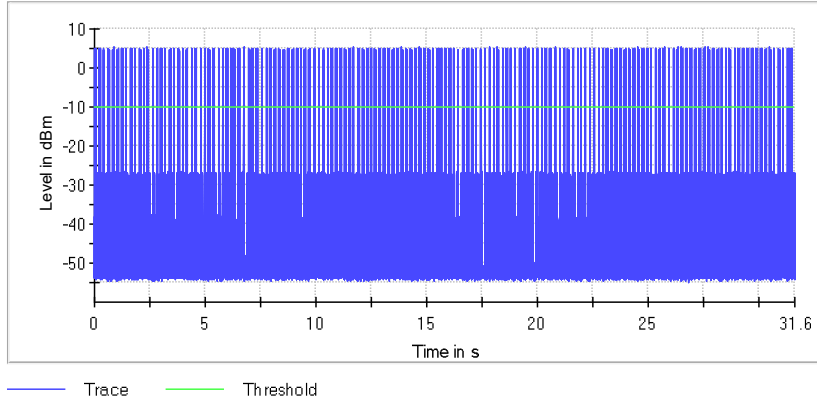
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.39	0.40	400.000	0.000	0.394

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.39	0.40	0.394

Time of Channel Occupancy



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
SweepTime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	160	265.570	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
5.000	1007.480	196.474

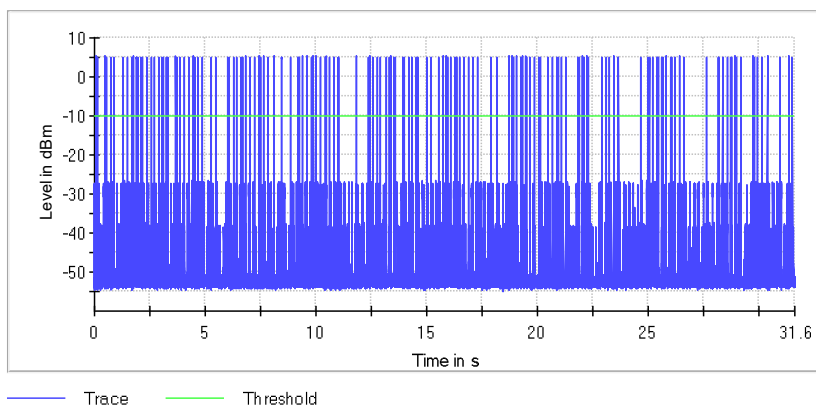
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
1.640	1.650	400.000	0.000	1.650

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.640	1.650	1.650

Time of Channel Occupancy(2)



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	94	275.220	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
33.750	1222.470	327.009

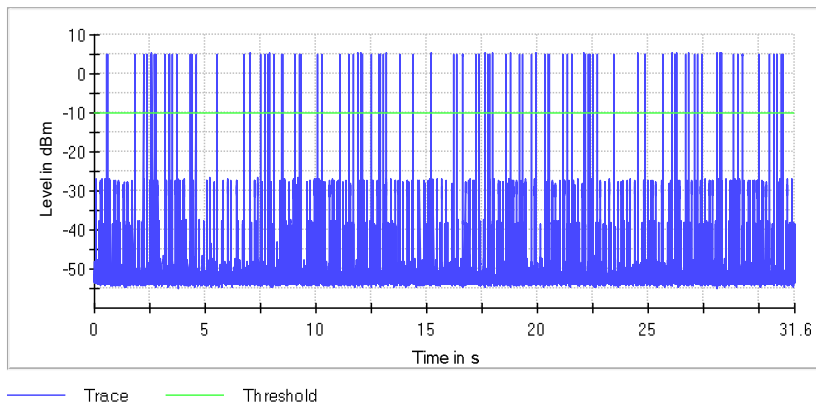
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
2.890	2.900	400.000	0.000	2.897

DwellTime

Min (ms)	Max (ms)	Mean (ms)
2.890	2.900	2.897

Time of Channel Occupancy(3)



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

EDR mode (3-DH5)

Time of Channel Occupancy (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	318	127.790	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
5.000	196.240	98.515

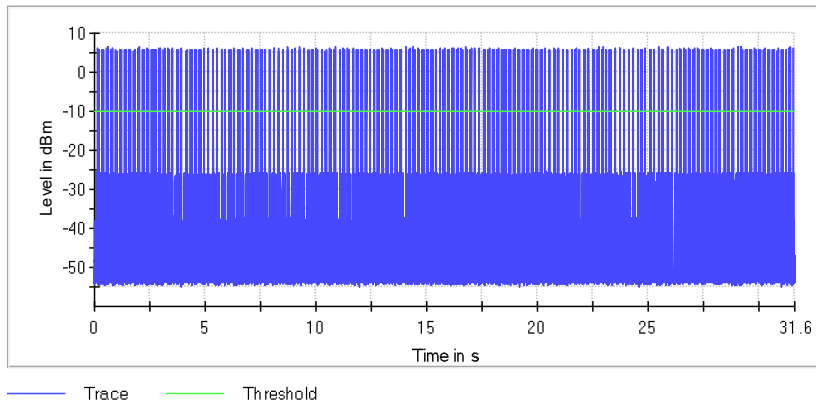
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
0.38	0.41	400.000	0.000	0.401

DwellTime

Min (ms)	Max (ms)	Mean (ms)
0.38	0.41	0.402

Time of Channel Occupancy



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
SweepTime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Time of Channel Occupancy(2) (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	163	270.290	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
5.000	1007.470	193.807

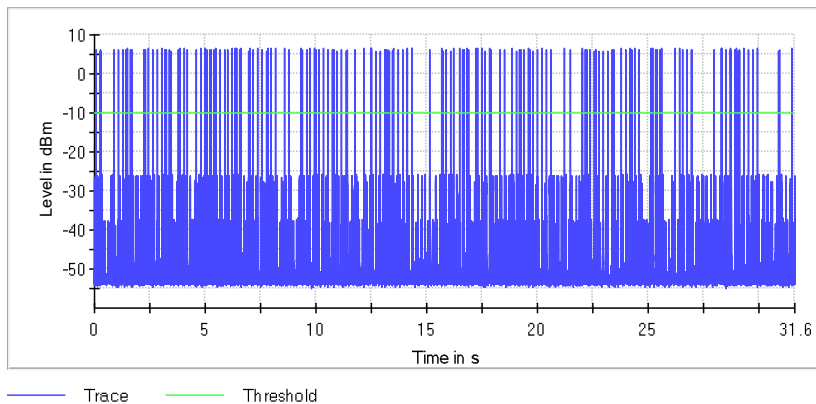
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
1.610	1.660	400.000	0.000	1.648

DwellTime

Min (ms)	Max (ms)	Mean (ms)
1.630	1.660	1.653

Time of Channel Occupancy(2)



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Time of Channel Occupancy(3) (2441 MHz; 10.000 dBm; 1 MHz)

Result

DUT Frequency (MHz)	Result	Number of Hops	Average time of occupancy (ms)	Threshold (dBm)
2441.000000	PASS	113	330.110	-10.0

Periode

Min (ms)	Max (ms)	Mean (ms)
37.500	1263.720	275.284

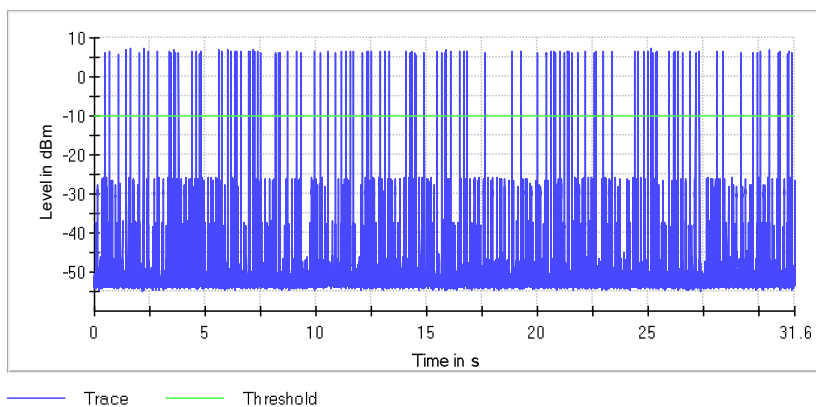
Transmit Time per Hop

Min (ms)	Max (ms)	Limit Max for Max (ms)	Limit Min for Max (ms)	Mean (ms)
2.860	2.910	400.000	0.000	2.896

DwellTime

Min (ms)	Max (ms)	Mean (ms)
2.900	2.910	2.904

Time of Channel Occupancy(3)



Measurement

Setting	Instrument Value	Target Value
Center Frequency	2.44100 GHz	2.44100 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Appendix A.3: Test Results of 20dB Bandwidth

BR mode (DH5)

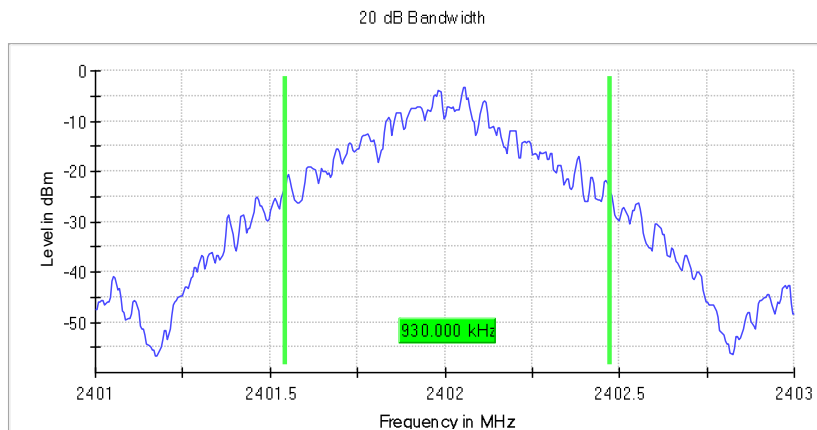
Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.930000	---	---	2401.542500	2402.472500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-3.1	PASS



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
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.50 dB

Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

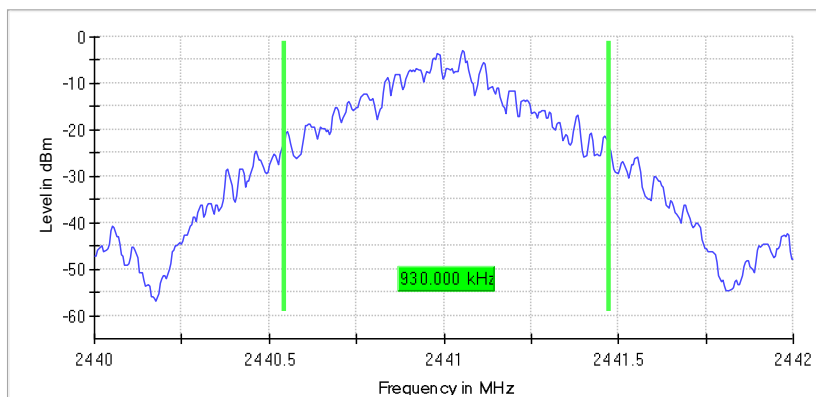
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.930000	---	---	2440.542500	2441.472500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-2.9	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 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	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

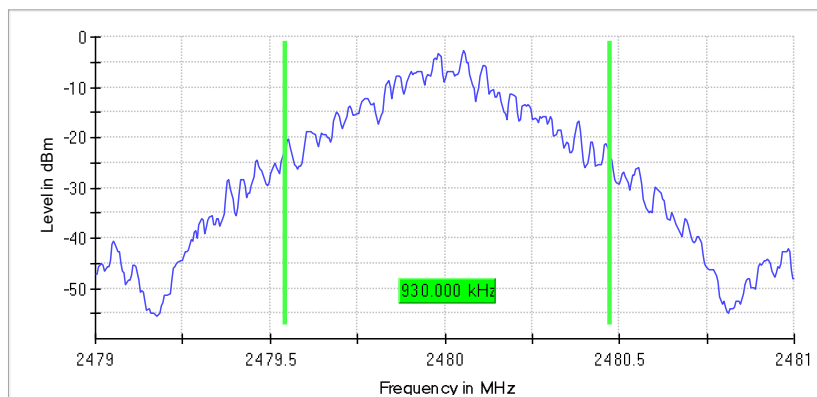
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.930000	---	---	2479.542500	2480.472500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-2.8	PASS

20 dB 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	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

EDR mode (3-DH5)

Emission Bandwidth 20 dB (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

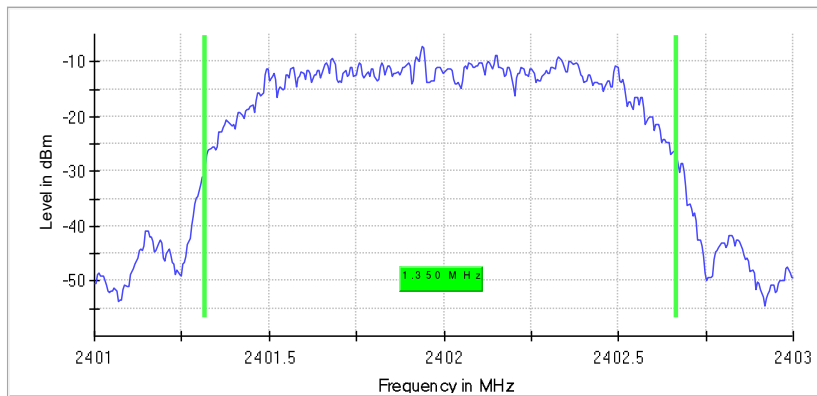
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.350000	---	---	2401.317500	2402.667500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-7.3	PASS

20 dB 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
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

Emission Bandwidth 20 dB (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

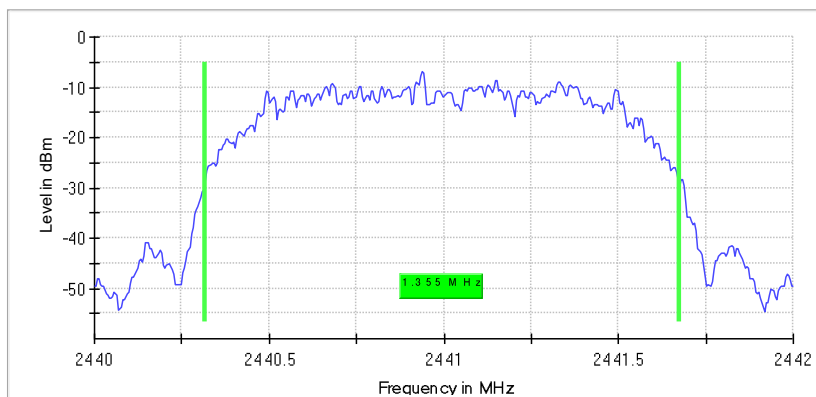
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.355000	---	---	2440.317500	2441.672500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-6.9	PASS

20 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 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	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

Emission Bandwidth 20 dB (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

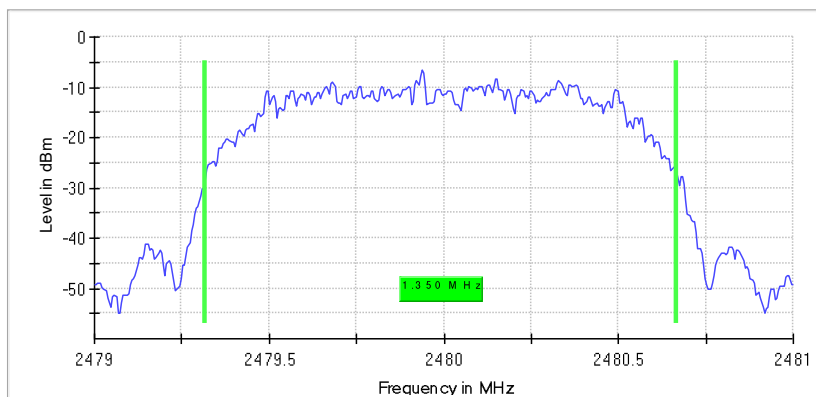
20 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.350000	---	---	2479.317500	2480.667500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-6.7	PASS

20 dB 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	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	6 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

Appendix A.4: Test Results of 99% Bandwidth

BR mode (DH5)

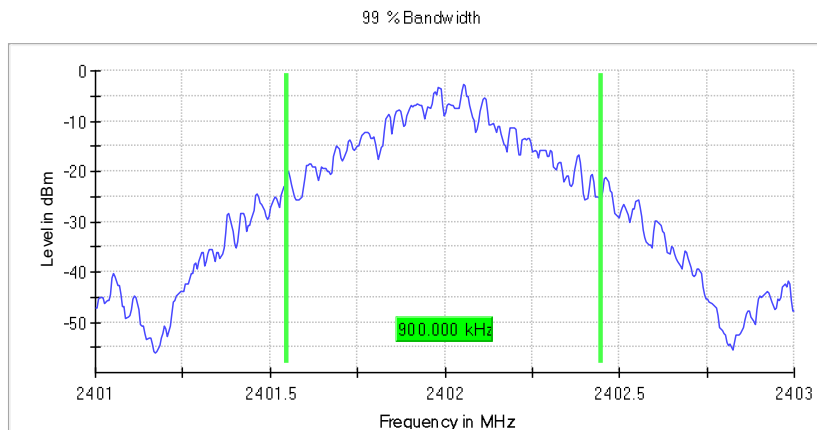
Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.900000	---	---	2401.547500	2402.447500

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

DUT Frequency (MHz)	Result
2402.000000	PASS



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
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.30 dB

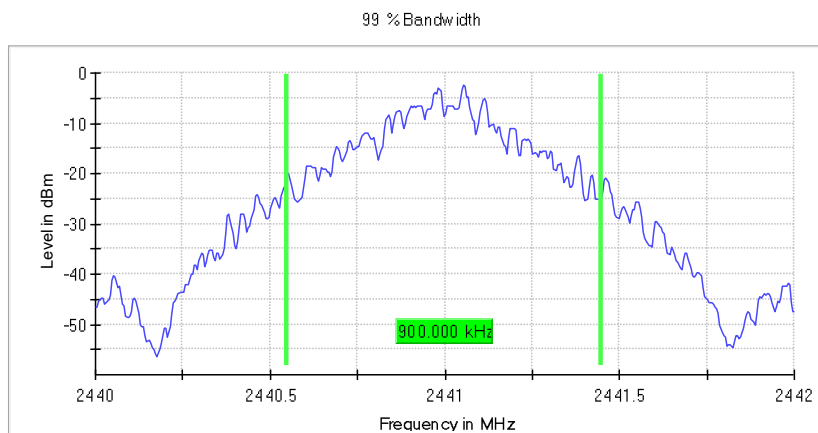
Occupied Channel Bandwidth 99% (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.900000	---	---	2440.547500	2441.447500

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

DUT Frequency (MHz)	Result
2441.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 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	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

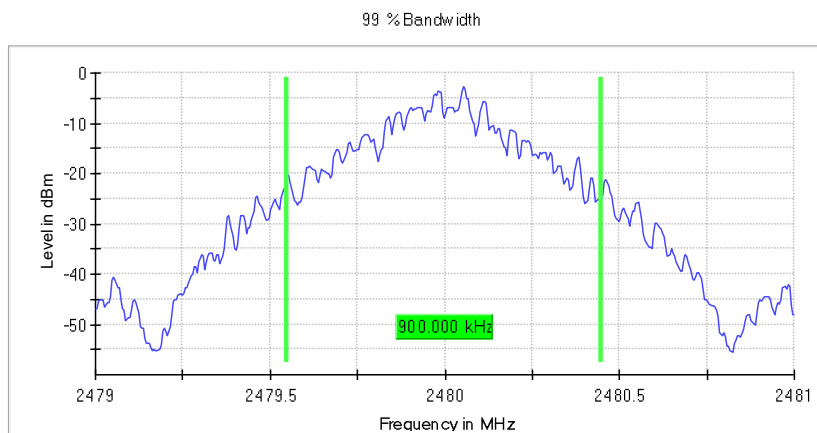
Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.900000	---	---	2479.547500	2480.447500

(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	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.12 dB	0.30 dB

EDR mode (3-DH5)

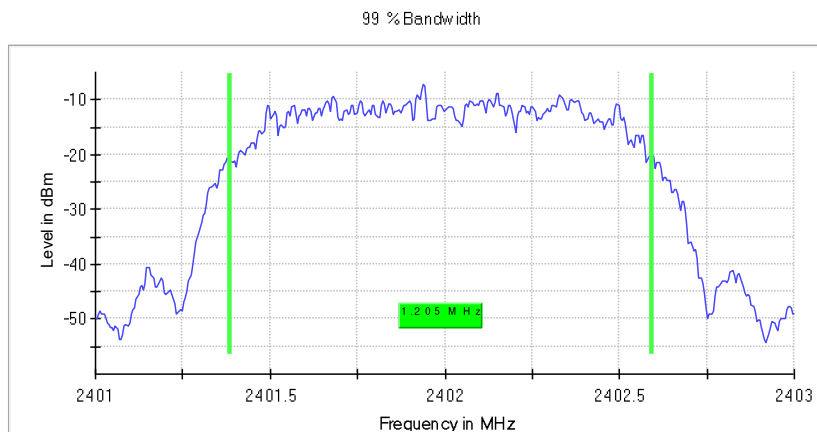
Occupied Channel Bandwidth 99% (2402 MHz; 10.000 dBm; 1 MHz; Test Mode)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.205000	---	---	2401.387500	2402.592500

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

DUT Frequency (MHz)	Result
2402.000000	PASS



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
SweepTime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.10 dB	0.30 dB

Occupied Channel Bandwidth 99% (2441 MHz; 10.000 dBm; 1 MHz; Test Mode)

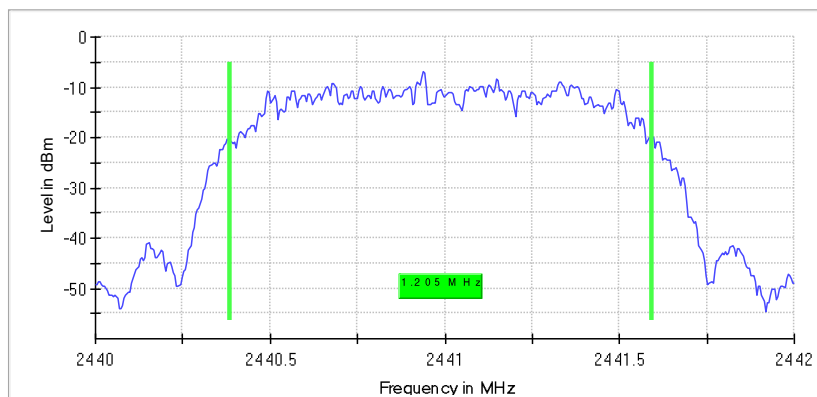
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.205000	---	---	2440.387500	2441.592500

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

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 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	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.10 dB	0.30 dB

Occupied Channel Bandwidth 99% (2480 MHz; 10.000 dBm; 1 MHz; Test Mode)

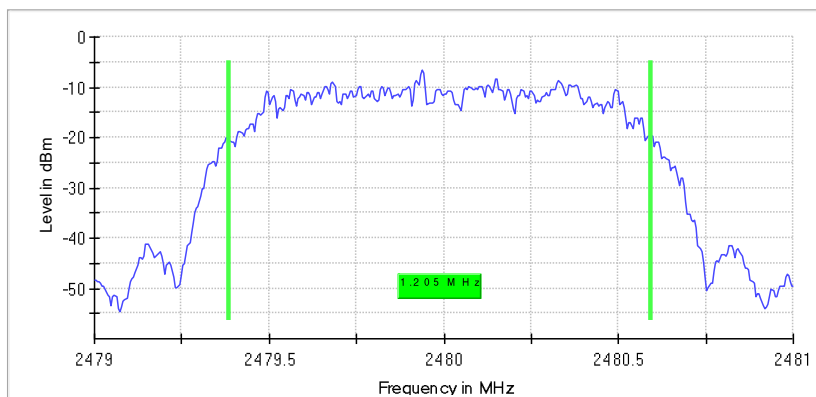
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.205000	---	---	2479.387500	2480.592500

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

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth

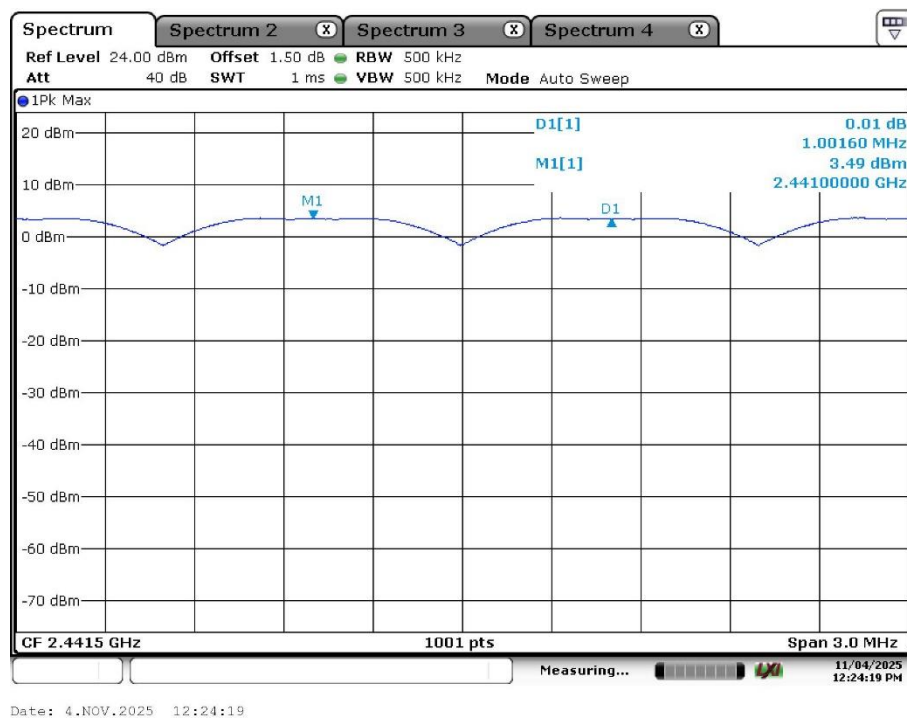
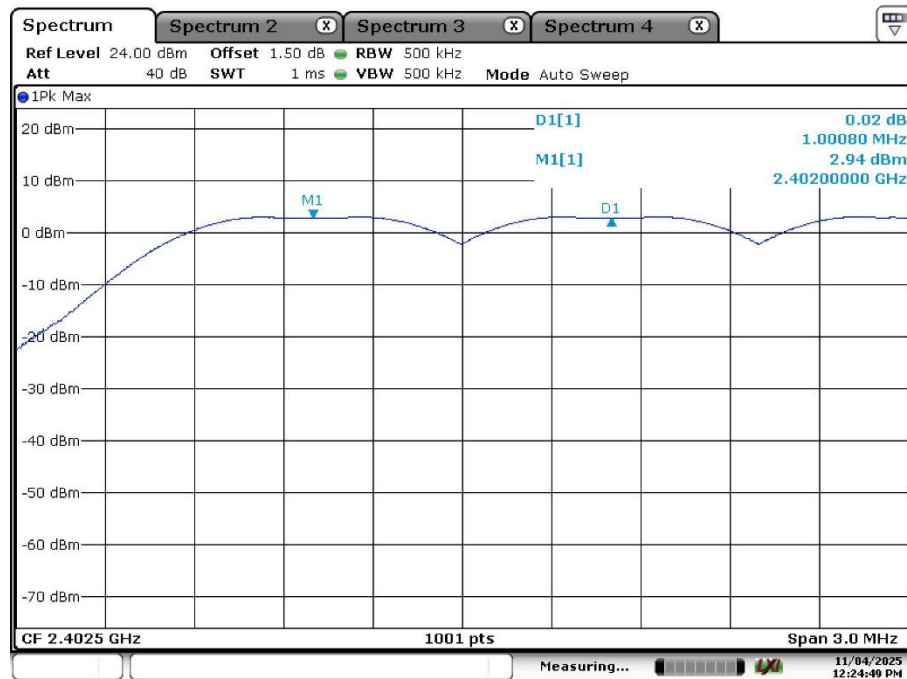


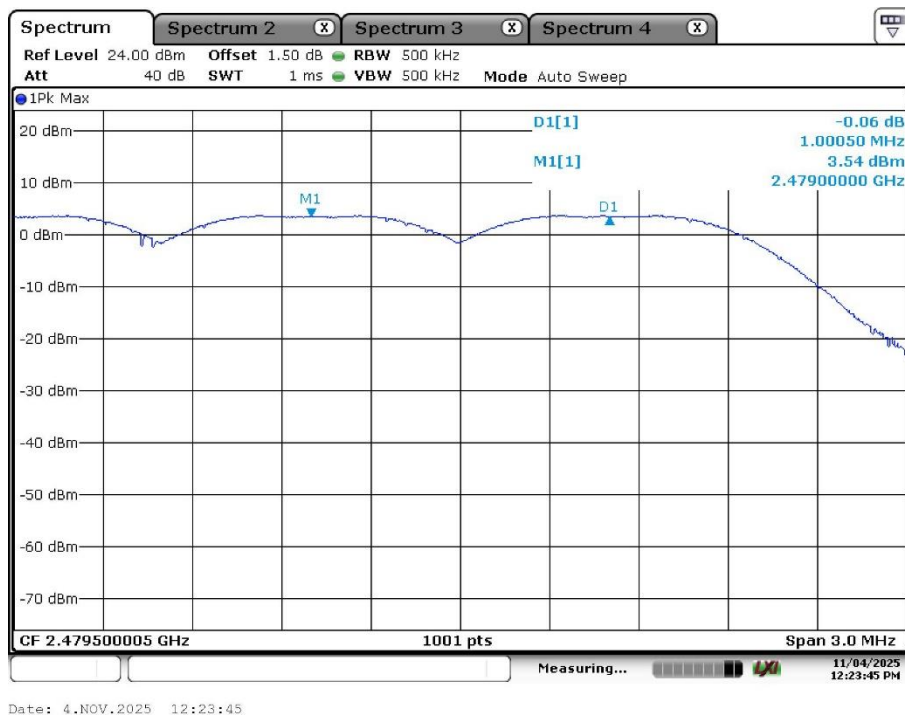
Measurement

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	500	500
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	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.12 dB	0.30 dB

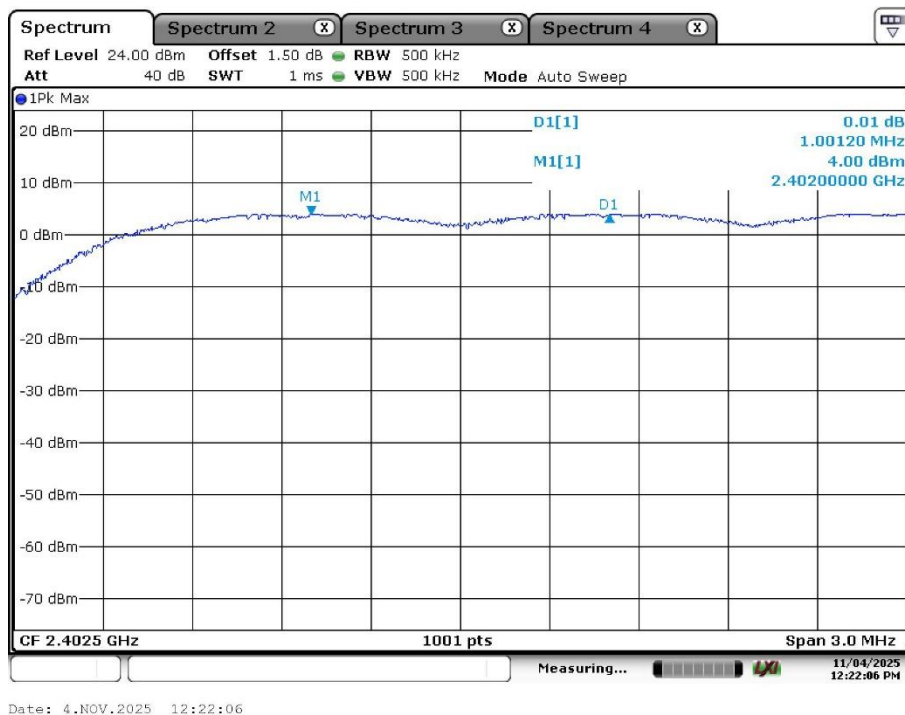
Appendix A.5: Test Results of Carrier Frequency Separation

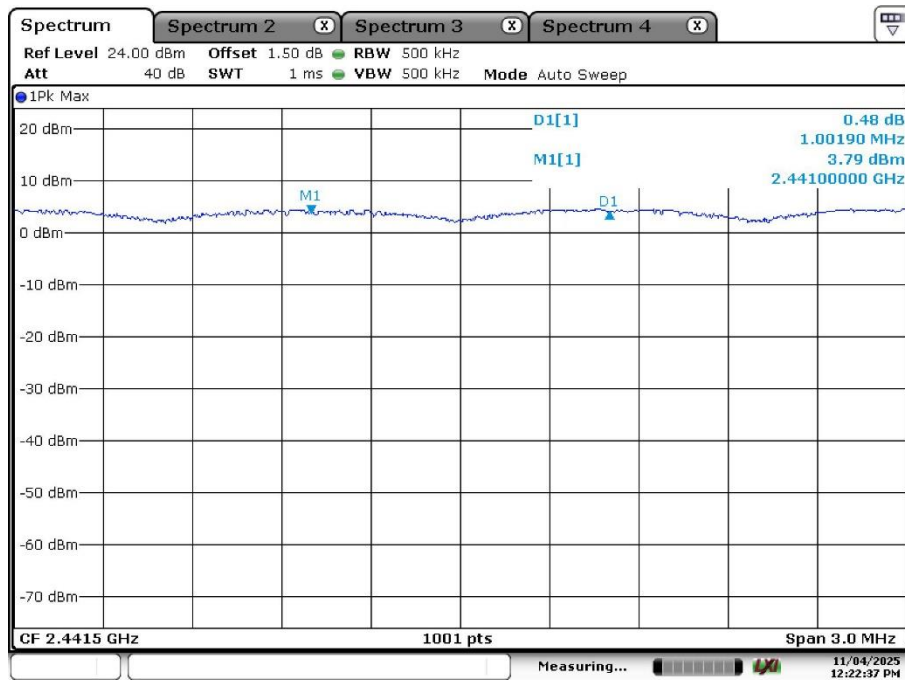
BR mode (DH5)



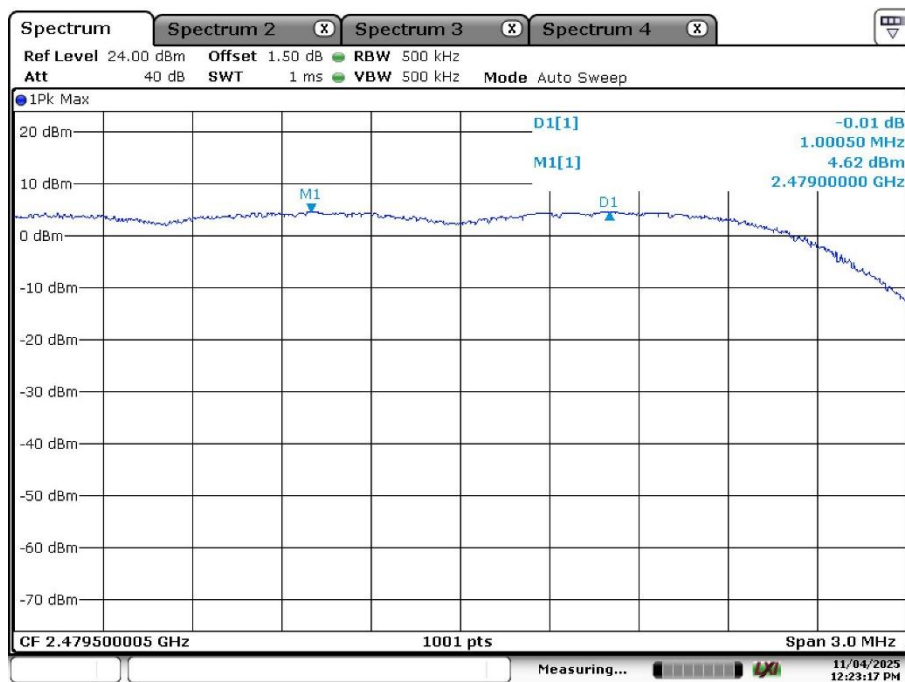


EDR mode (3-DH5)





Date: 4.NOV.2025 12:22:37



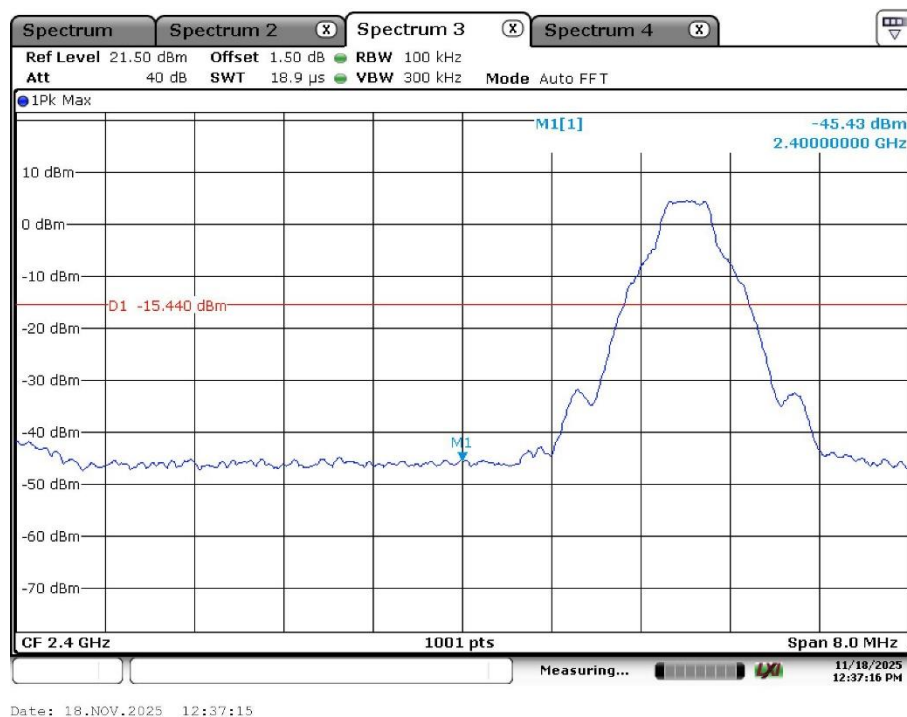
Date: 4.NOV.2025 12:23:17

Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

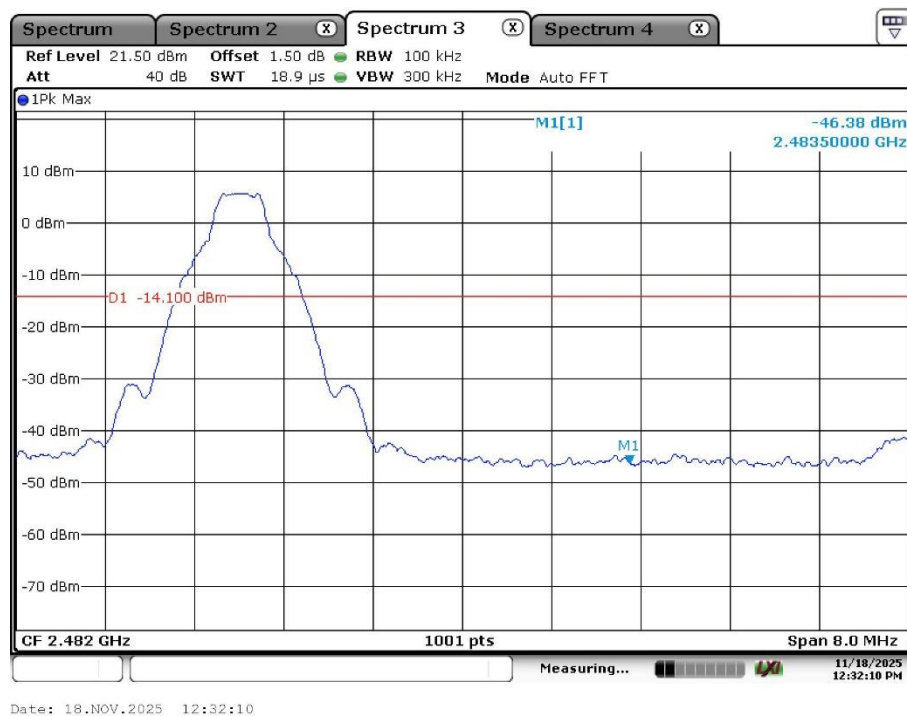
BR mode (DH5)

Fixed mode, Band Edge

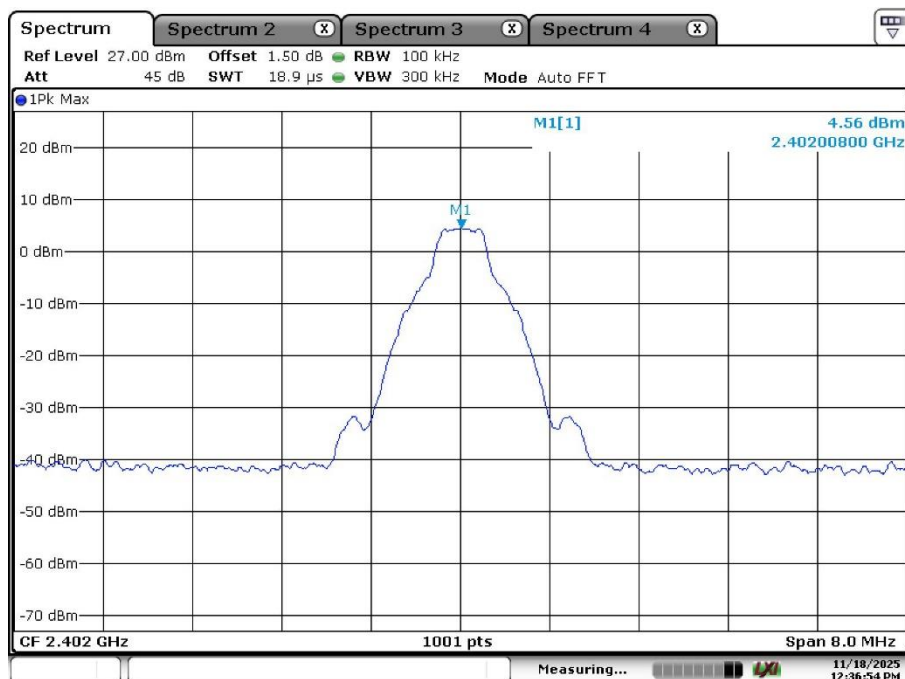
Low Channel



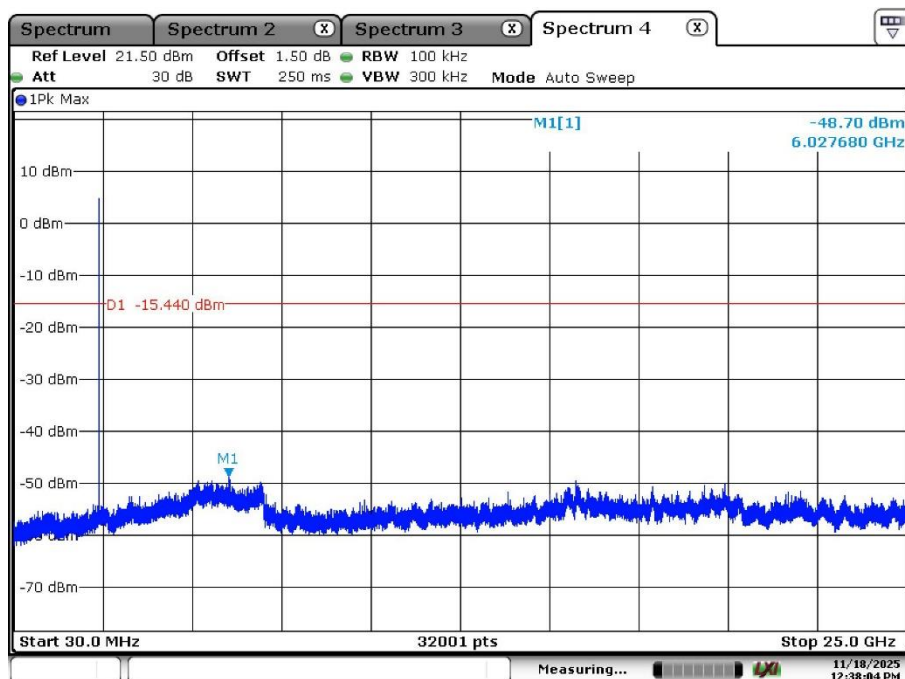
High Channel



Fixed mode, Conducted Spurious Emission
Low Channel

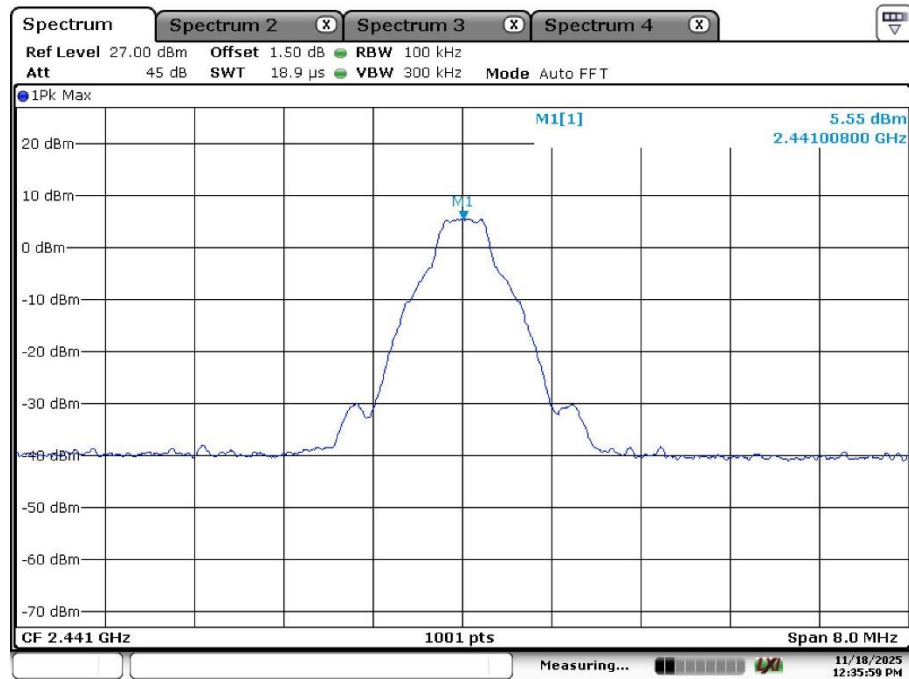


Date: 18.NOV.2025 12:36:53

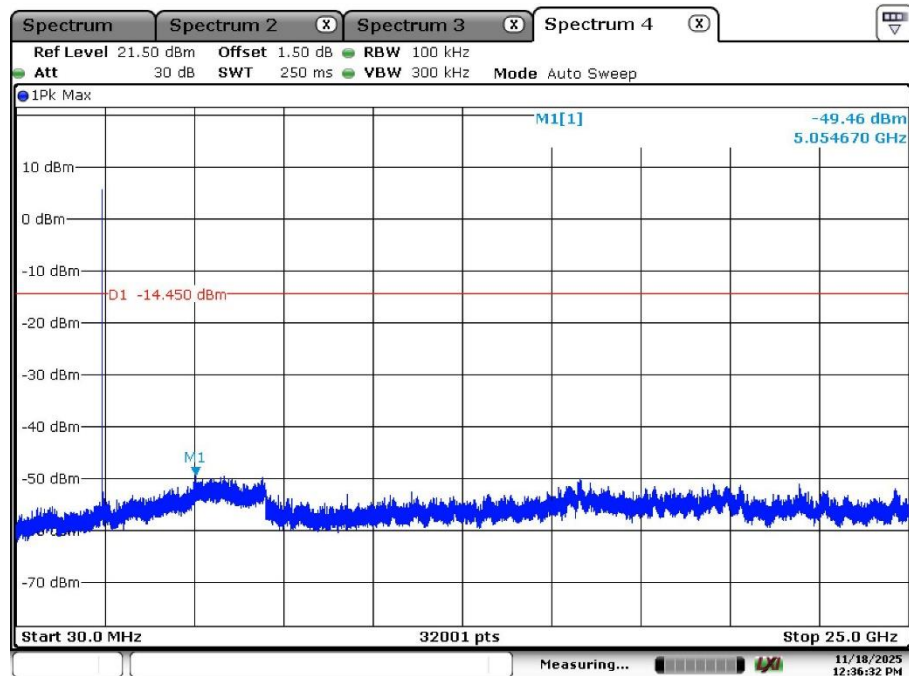


Date: 18.NOV.2025 12:38:04

Middle Channel

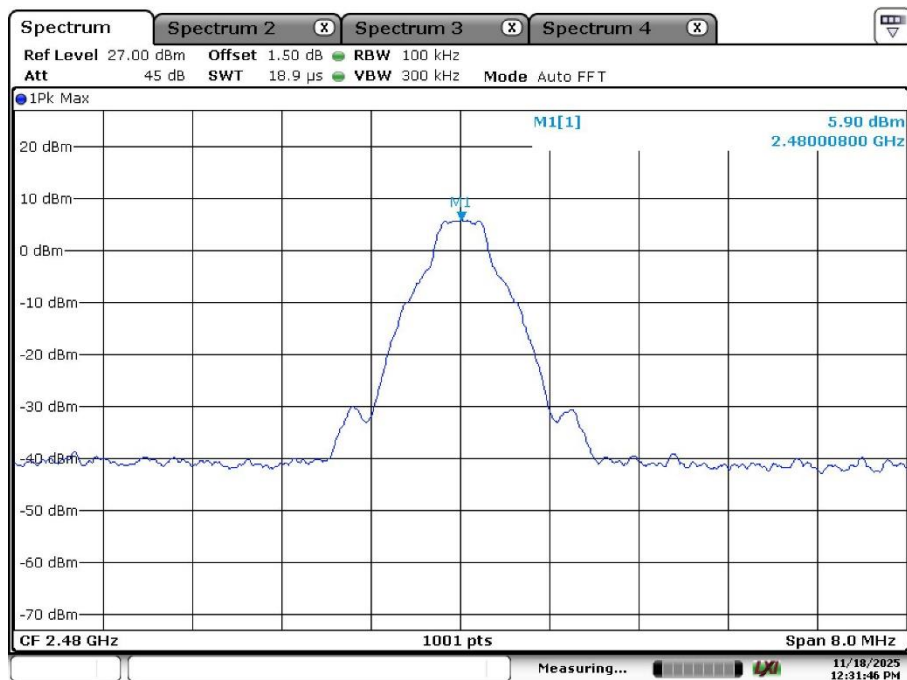


Date: 18.NOV.2025 12:35:59

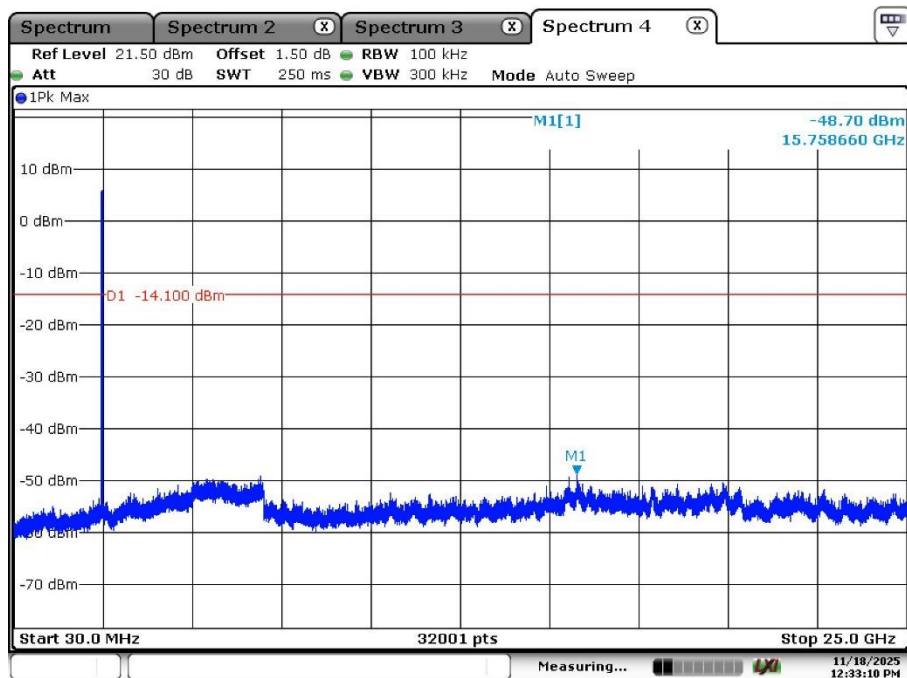


Date: 18.NOV.2025 12:36:32

High Channel



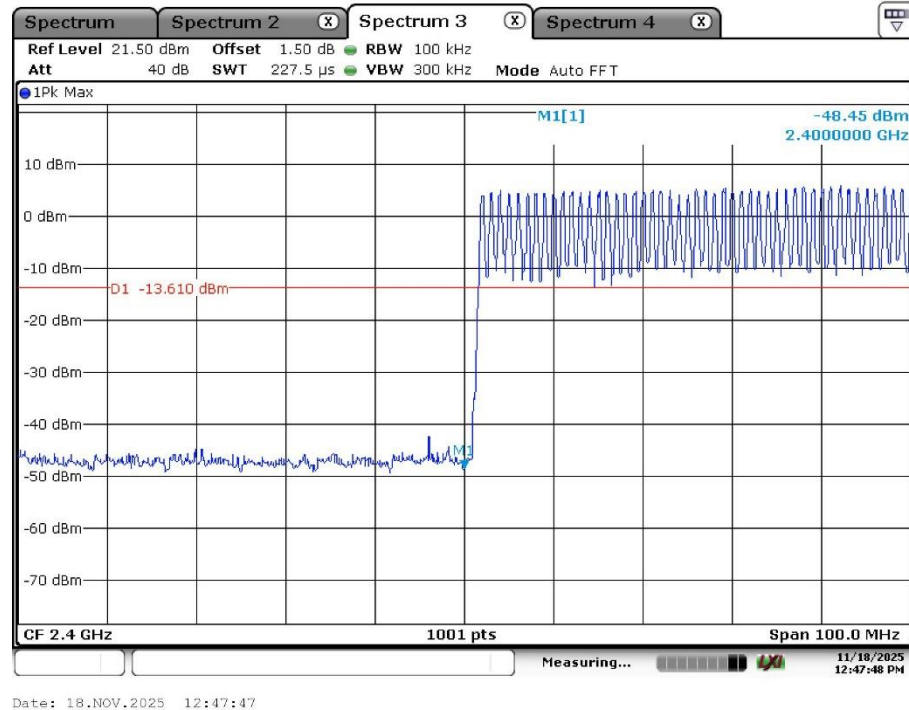
Date: 18.NOV.2025 12:31:46



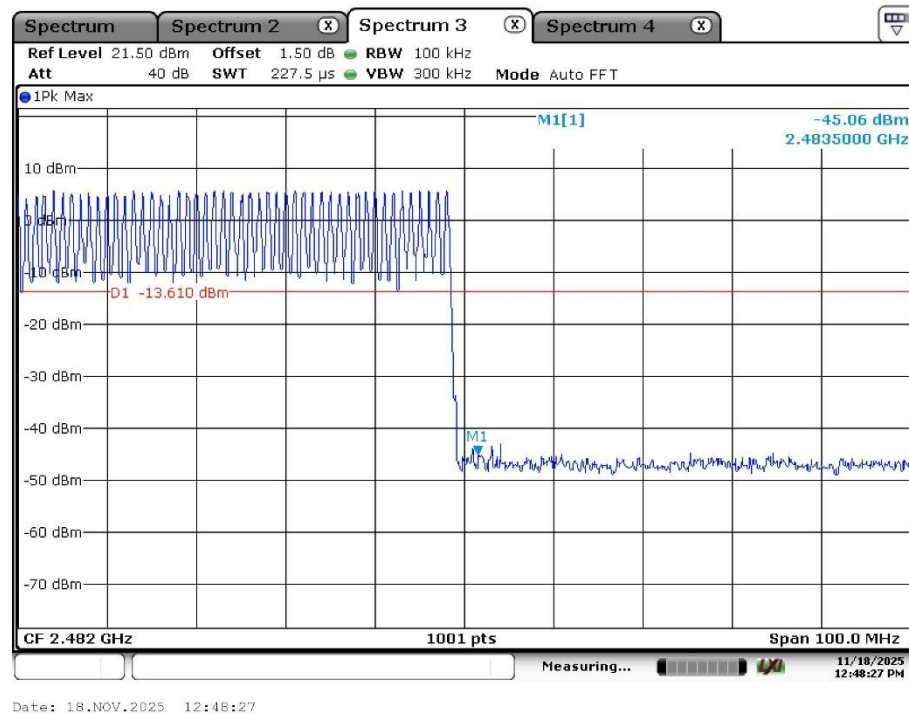
Date: 18.NOV.2025 12:33:10

Hopping Mode, Band Edge

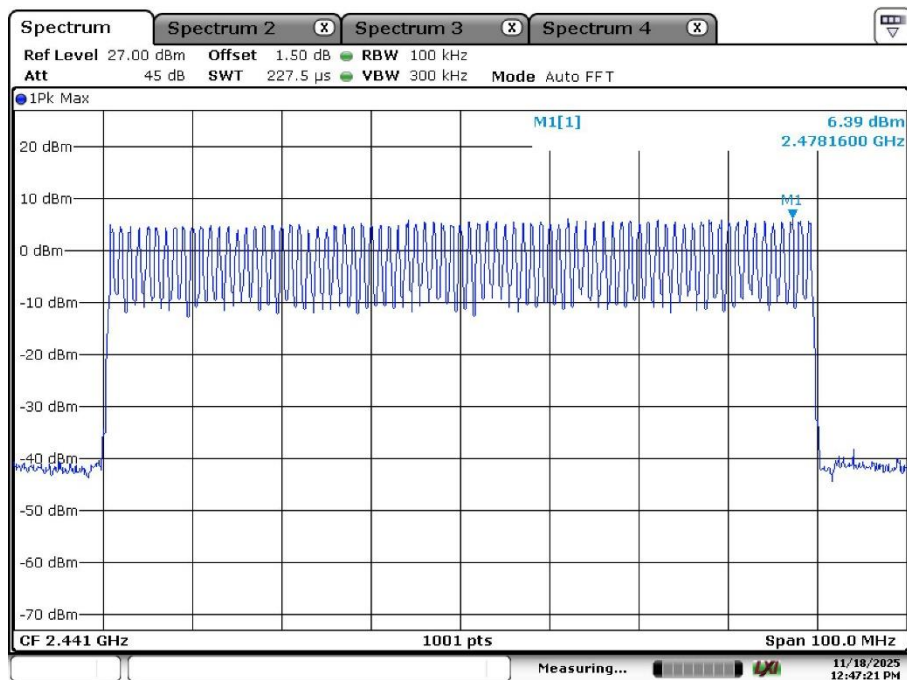
Low Channel



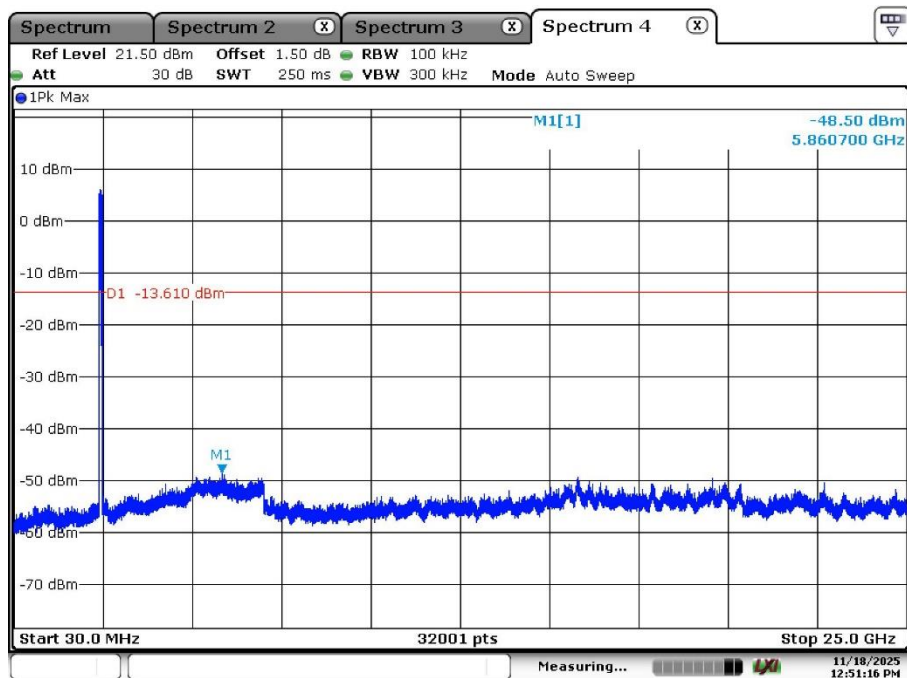
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 18.NOV.2025 12:47:21

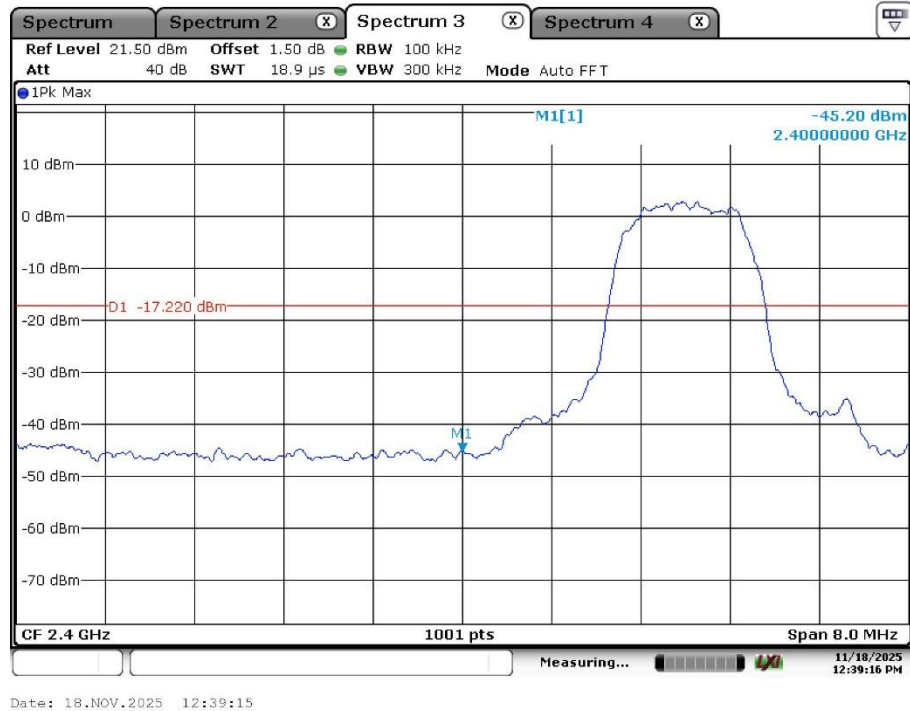


Date: 18.NOV.2025 12:51:15

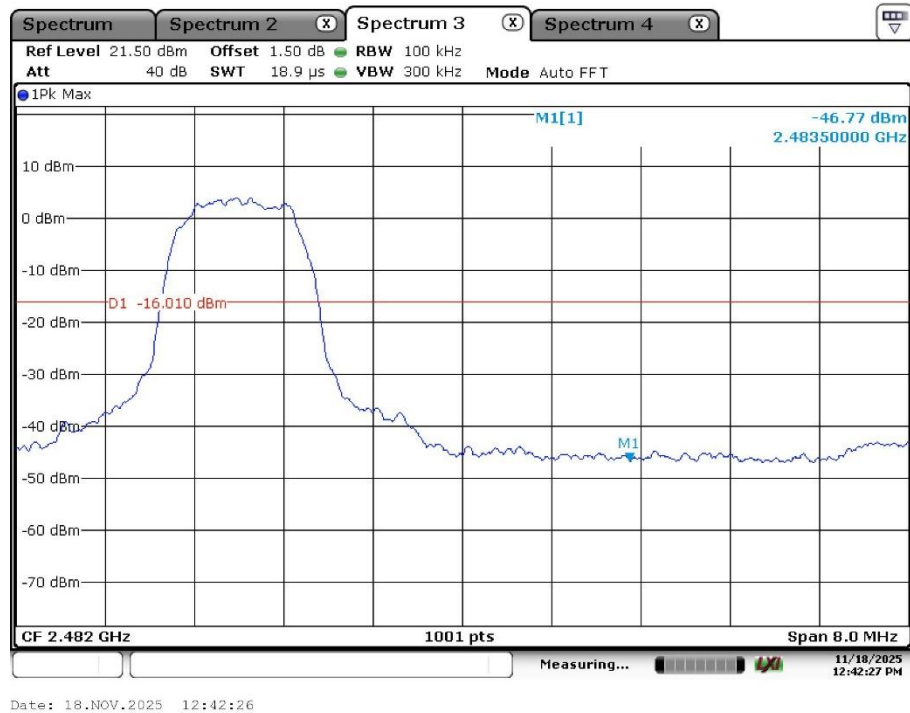
EDR mode (3-DH5)

Fixed mode, Band Edge

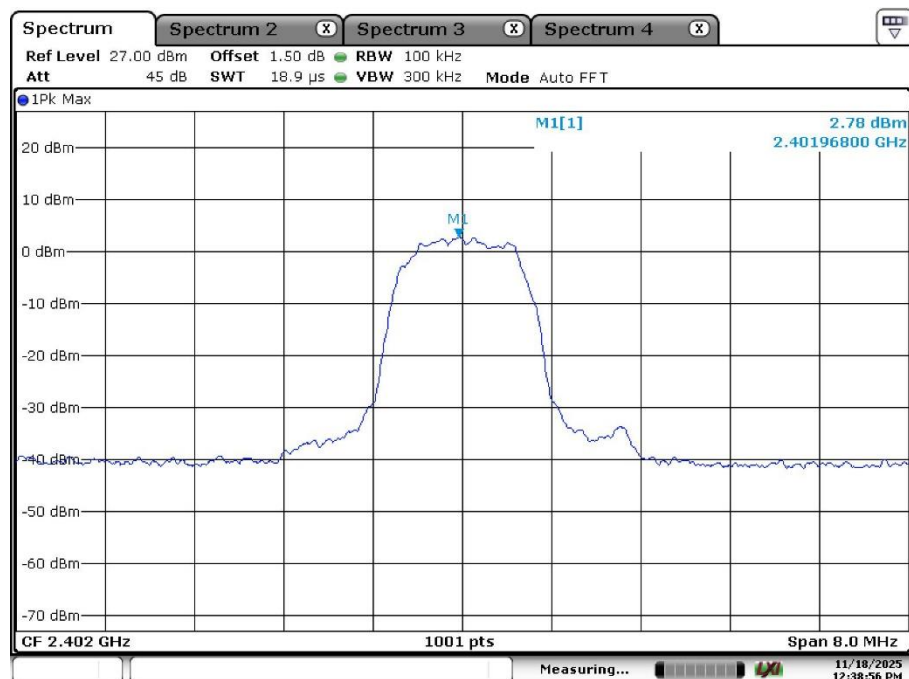
Low Channel



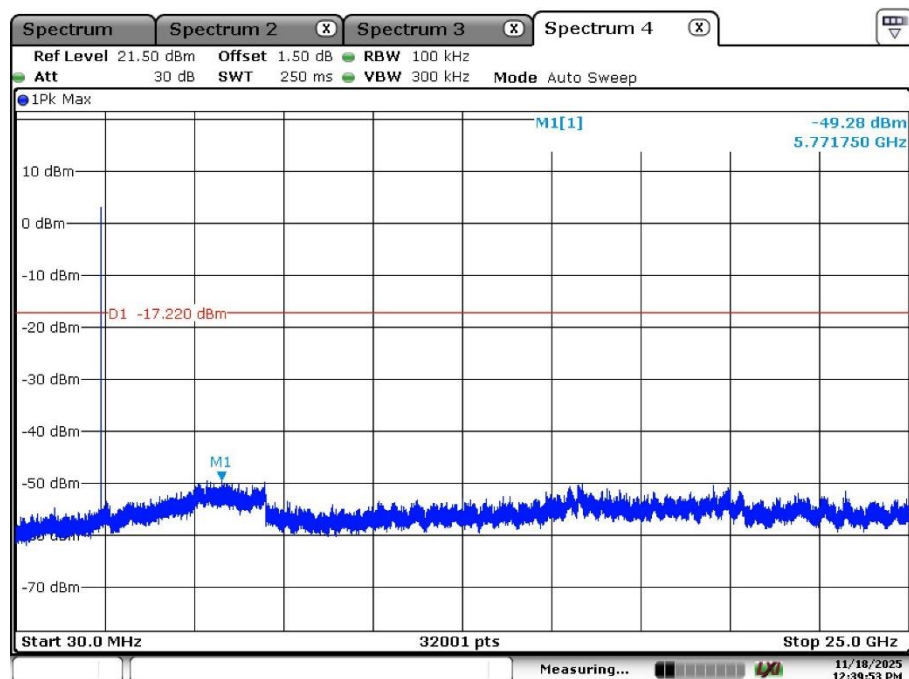
High Channel



Fixed mode, Conducted Spurious Emission
Low Channel

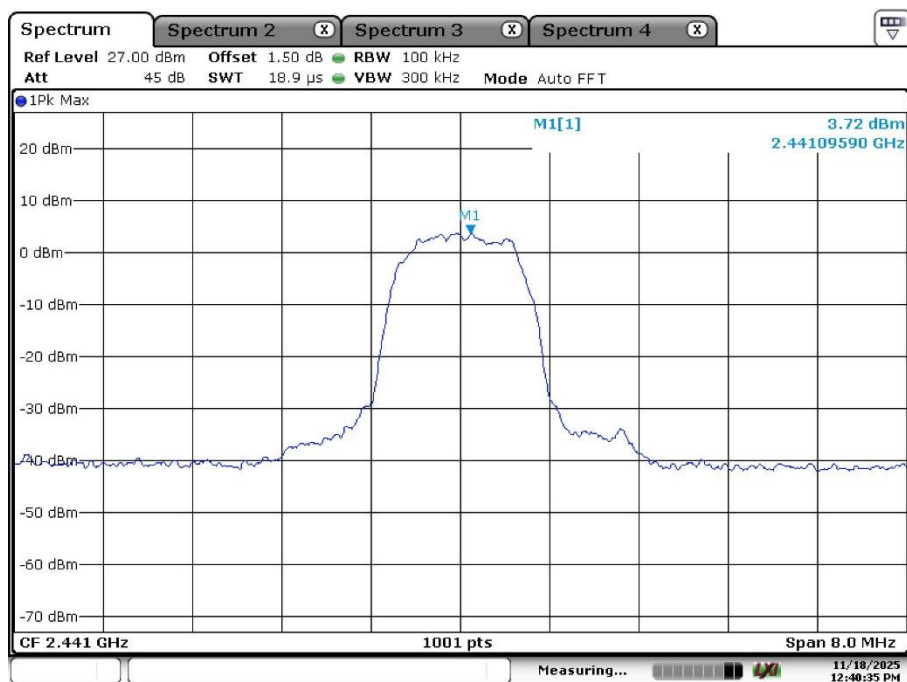


Date: 18.NOV.2025 12:38:56

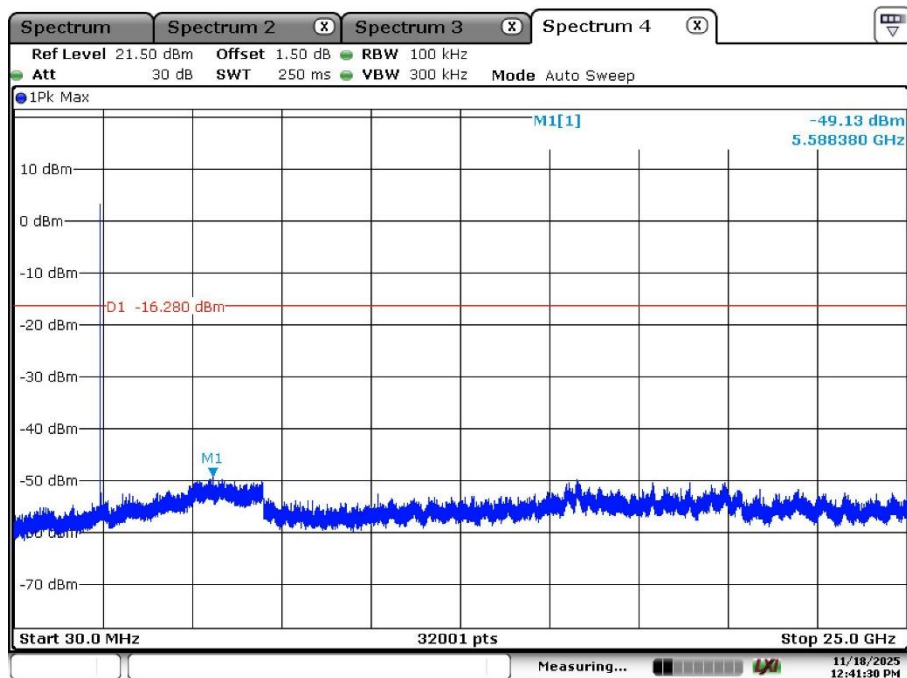


Date: 18.NOV.2025 12:39:52

Middle Channel

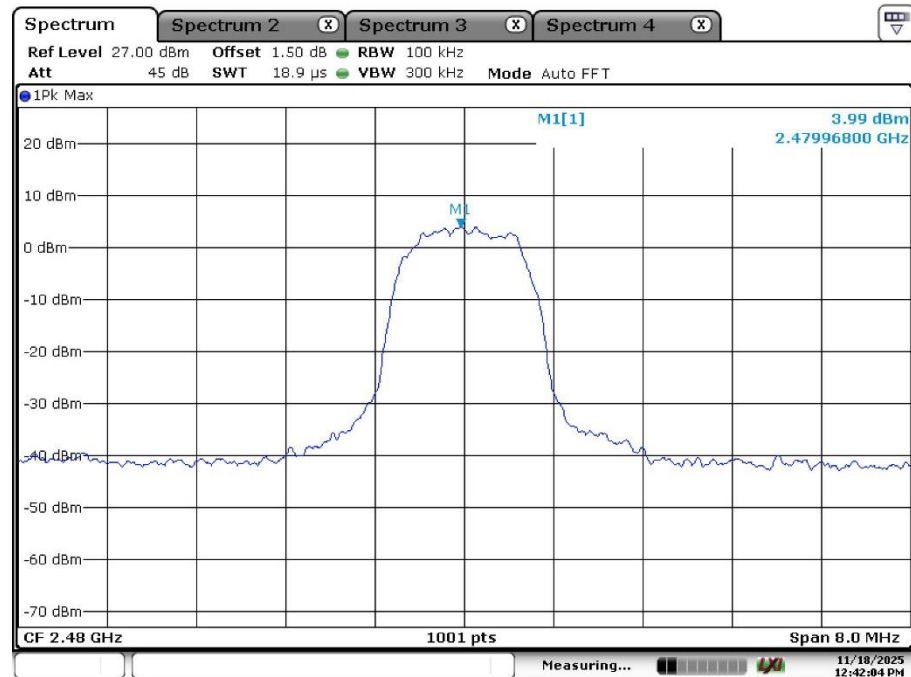


Date: 18.NOV.2025 12:40:35

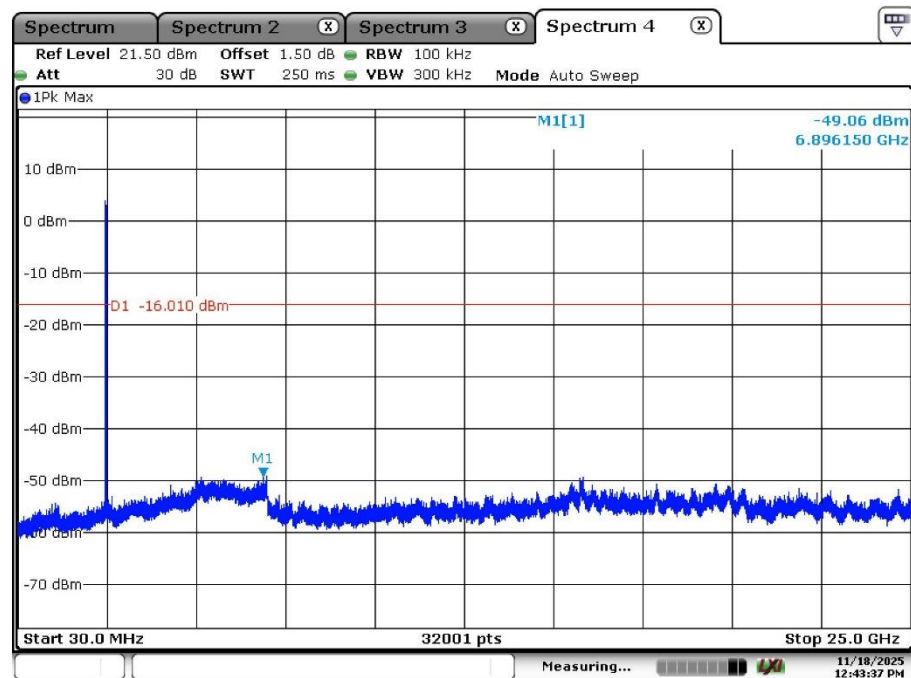


Date: 18.NOV.2025 12:41:30

High Channel



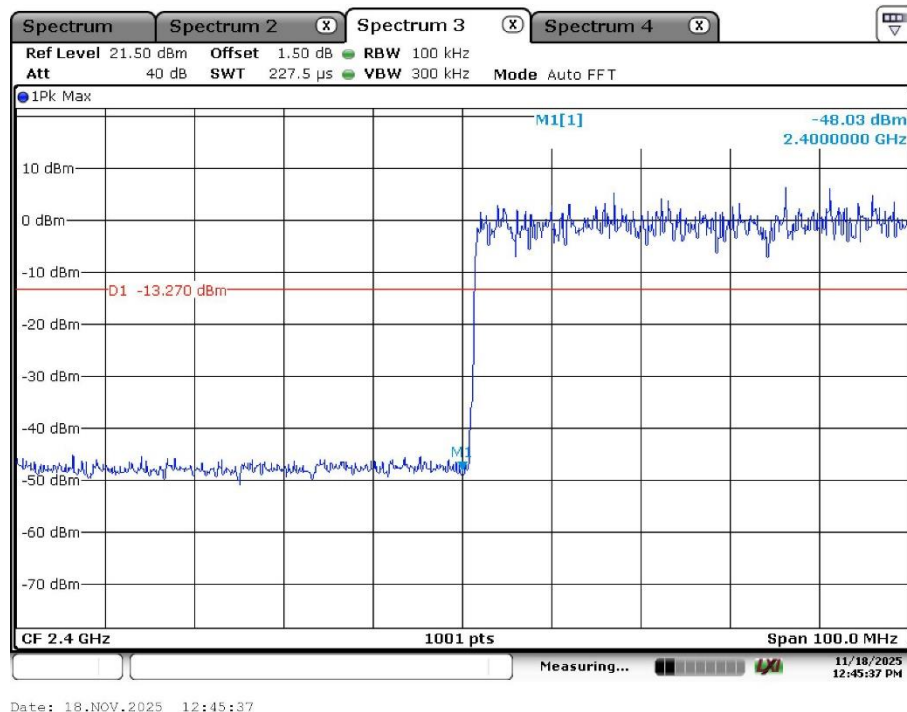
Date: 18.NOV.2025 12:42:04



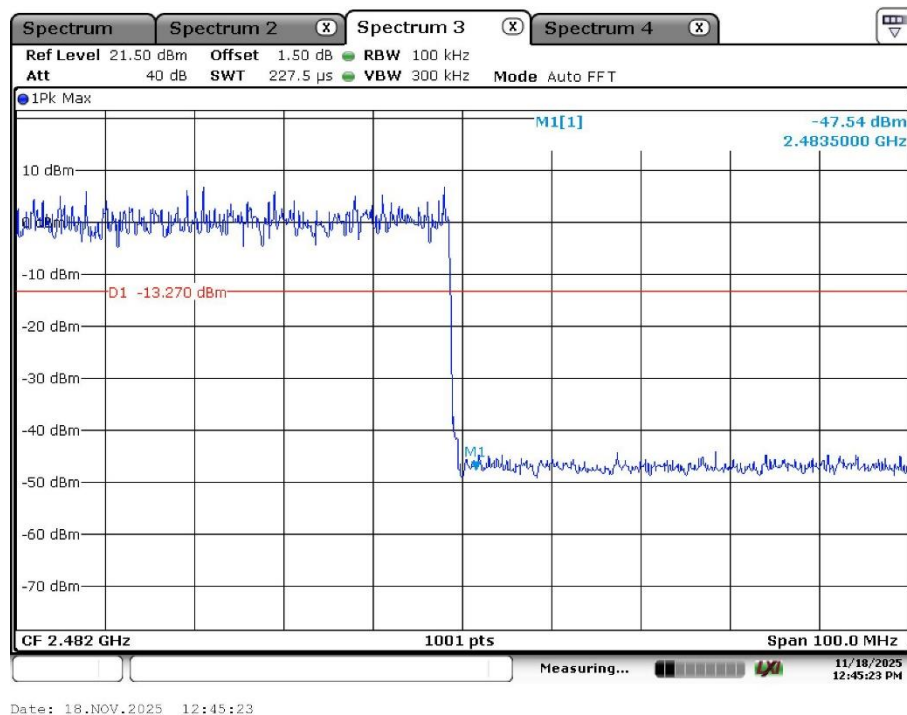
Date: 18.NOV.2025 12:43:37

Hopping Mode, Band Edge

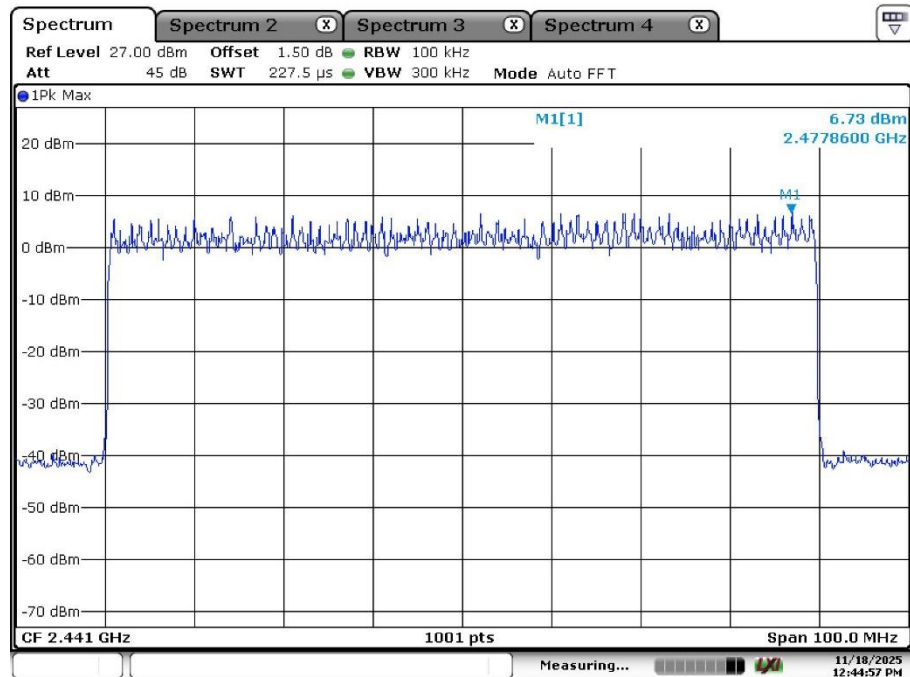
Low Channel



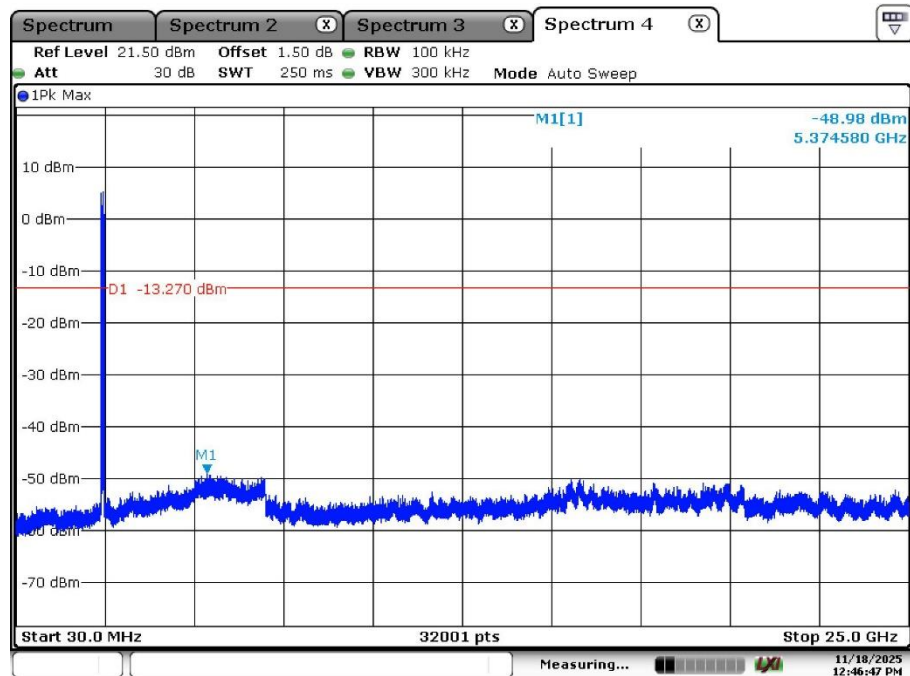
High Channel



Hopping Mode, Conducted Spurious Emission



Date: 18.NOV.2025 12:44:57



Date: 18.NOV.2025 12:46:47

Appendix A.7: Test Results of Radiated Spurious Emissions

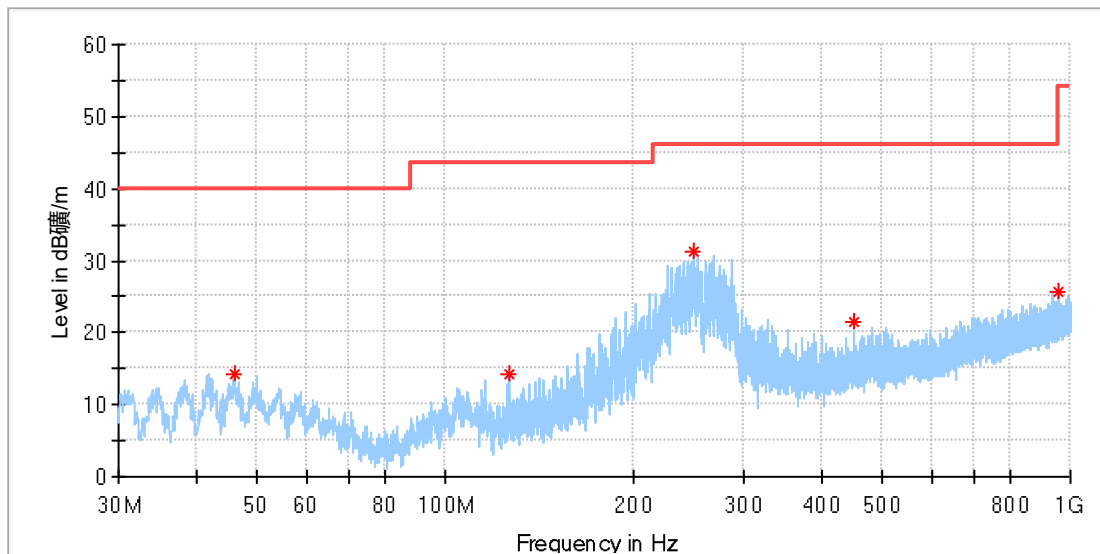
Note:

- 1) This testing was carried out on different modulations, 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.

30MHz - 1GHz

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
	Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

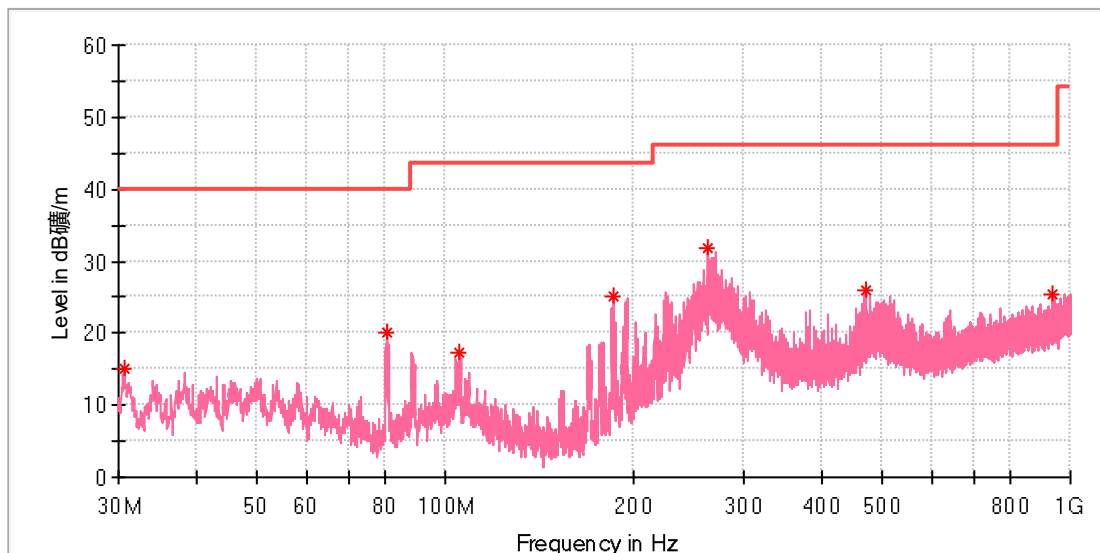
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.897222	14.29	40.00	25.71	100.0	H	152.0	-18.8
126.407222	14.26	43.50	29.24	100.0	H	200.0	-21.6
250.190000	31.36	46.00	14.64	100.0	H	350.0	-17.4
449.578889	21.44	46.00	24.56	100.0	H	0.0	-12.8
957.212222	25.68	46.00	20.32	100.0	H	56.0	-4.2

Final Result

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

EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
Bluetooth 2.1+EDR/4.2/5.3
Model: SKI.WB822EU.12
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168581151/A004121829-008
Test Voltage: DC 3.3V
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

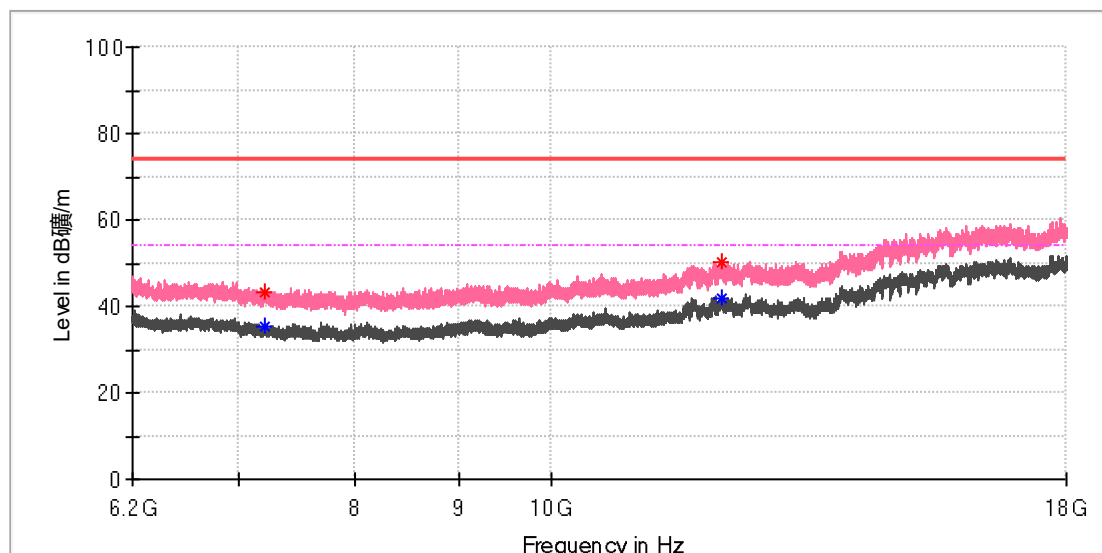
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.700556	15.14	40.00	24.86	100.0	V	325.0	-22.9
80.547778	19.97	40.00	20.03	100.0	V	291.0	-23.5
105.390556	17.24	43.50	26.26	100.0	V	239.0	-18.9
185.792778	25.06	43.50	18.44	100.0	V	252.0	-20.0
263.177222	31.88	46.00	14.12	100.0	V	223.0	-17.1
470.002778	25.94	46.00	20.06	100.0	V	215.0	-12.3
937.003889	25.47	46.00	20.53	100.0	V	291.0	-4.4

Final_Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

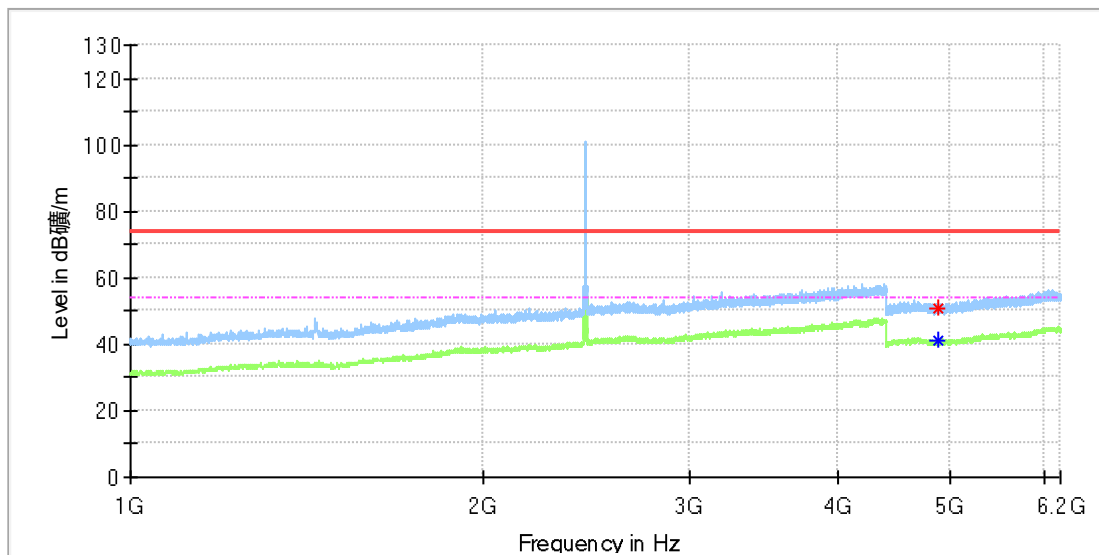
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.475000	43.25	---	74.00	30.75	150.0	V	4.0	8.8
7205.458333	---	35.34	54.00	18.66	150.0	V	89.0	8.8
12153.100000	50.45	---	74.00	23.55	150.0	V	65.0	16.6
12157.033333	---	41.95	54.00	12.05	150.0	V	111.0	16.4

Final Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

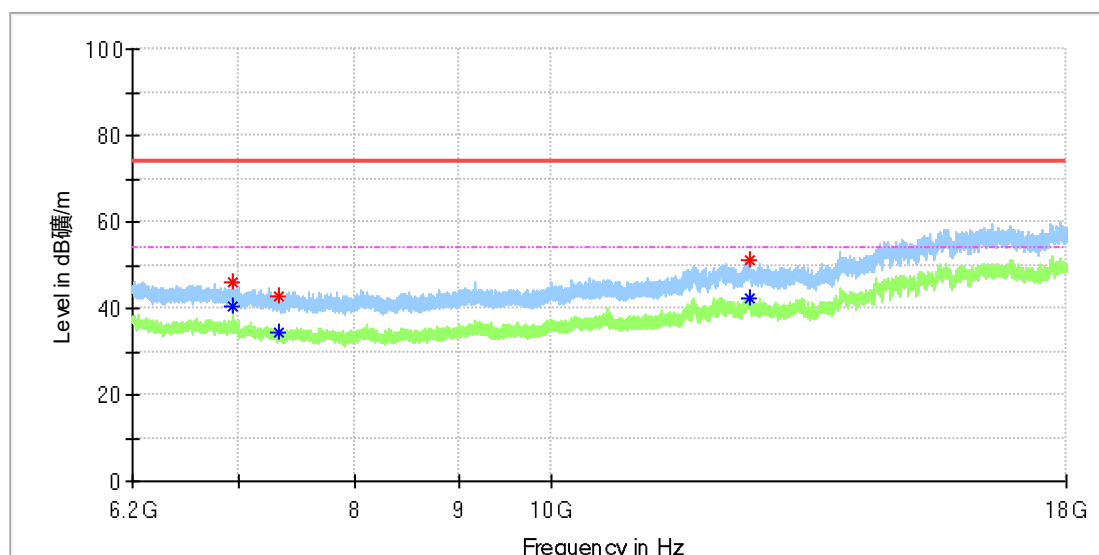
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	51.08	---	74.00	22.92	150.0	H	3.0	13.3
4882.000000	---	41.03	54.00	12.97	150.0	H	103.0	13.3

Final Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
	Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

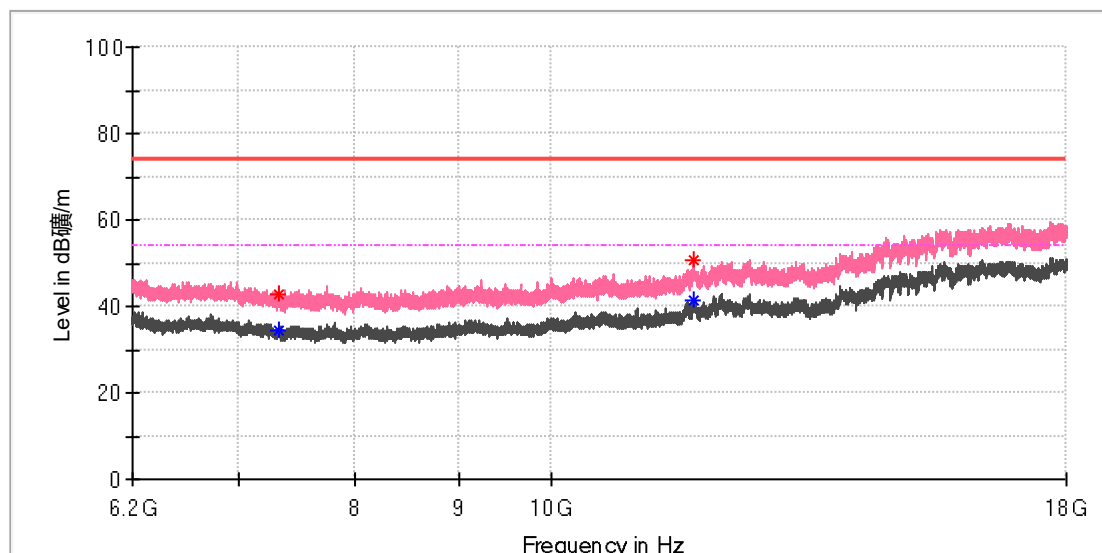
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
6945.858333	45.94	---	74.00	28.06	150.0	H	0.0	8.6
6946.350000	---	40.36	54.00	13.64	150.0	H	0.0	8.6
7325.425000	---	34.58	54.00	19.42	150.0	H	182.0	8.2
7326.900000	42.64	---	74.00	31.36	150.0	H	0.0	8.1
12529.225000	51.24	---	74.00	22.76	150.0	H	69.0	16.3
12536.600000	---	42.47	54.00	11.53	150.0	H	20.0	16.4

Final Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

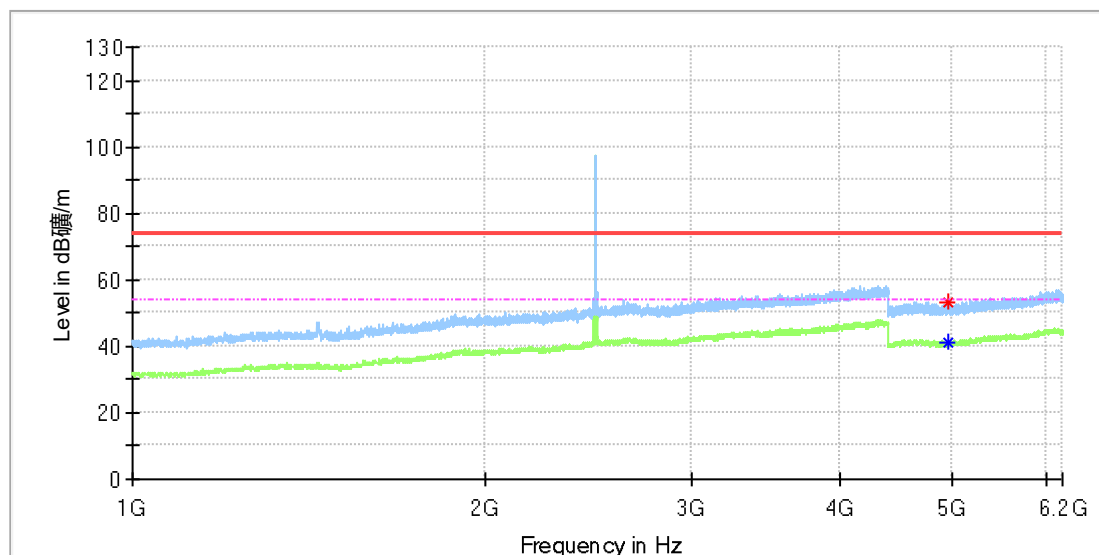
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	42.83	---	74.00	31.17	150.0	V	141.0	8.2
7324.441667	---	34.40	54.00	19.60	150.0	V	0.0	8.2
11773.533333	---	41.56	54.00	12.44	150.0	V	82.0	15.2
11773.533333	50.74	---	74.00	23.26	150.0	V	82.0	15.2

Final Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
	Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

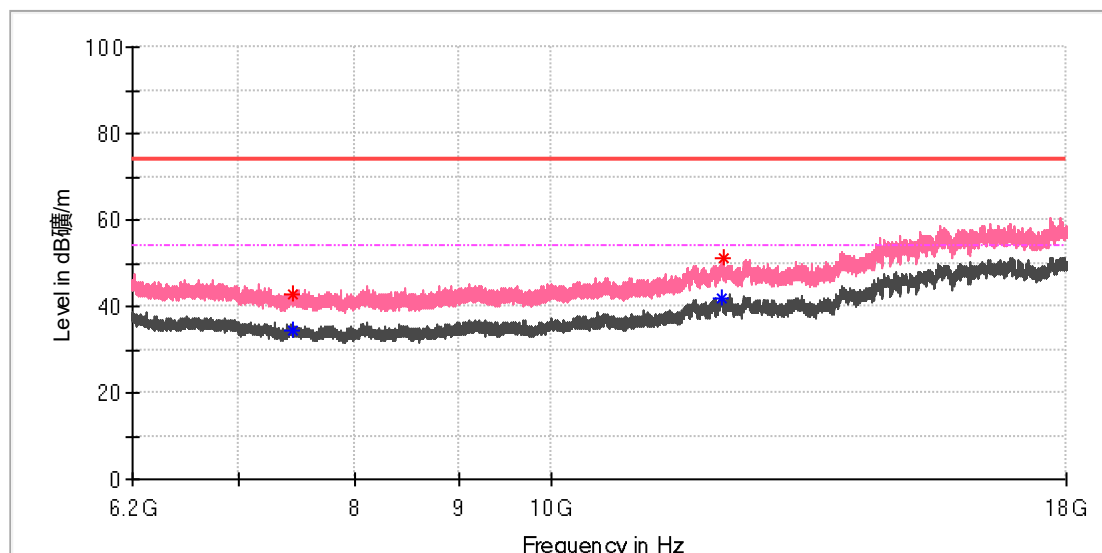
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4963.000000	52.96	---	74.00	21.04	150.0	H	267.0	13.3
4964.000000	---	41.16	54.00	12.84	150.0	H	359.0	13.3

Final Result

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
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	42.80	---	74.00	31.20	150.0	V	240.0	8.4
7442.441667	---	34.32	54.00	19.68	150.0	V	1.0	8.4
12151.133333	---	42.09	54.00	11.91	150.0	V	109.0	16.7
12161.458333	51.39	---	74.00	22.61	150.0	V	252.0	16.1

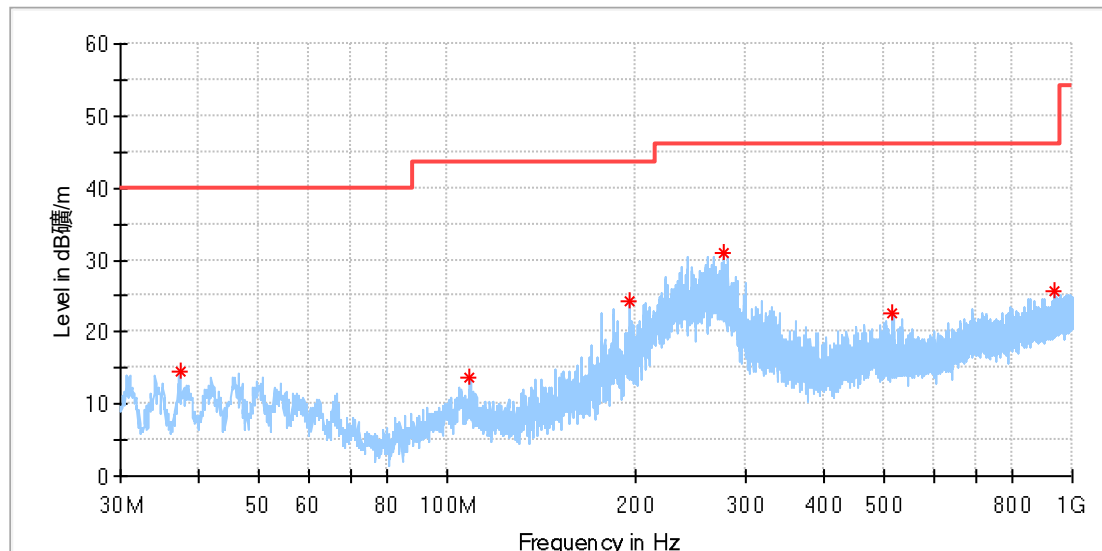
Final Result

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

30MHz - 1GHz for co-location

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
	Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_High channel+WIFI 2.4G_11b_Ch1
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

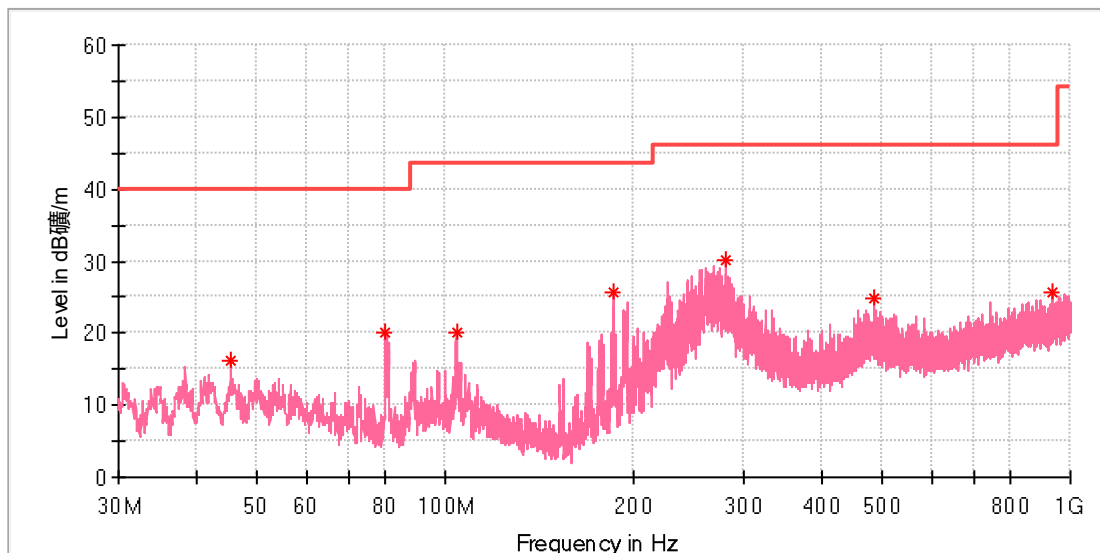
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.328889	14.64	40.00	25.36	100.0	H	336.0	-21.1
108.785556	13.57	43.50	29.93	100.0	H	67.0	-19.1
195.385000	24.36	43.50	19.14	100.0	H	181.0	-19.3
276.326111	30.86	46.00	15.14	100.0	H	5.0	-16.8
514.191667	22.67	46.00	23.33	100.0	H	247.0	-11.6
938.458889	25.73	46.00	20.27	100.0	H	254.0	-4.4

Final Result

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

EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
Bluetooth 2.1+EDR/4.2/5.3
Model: SKI.WB822EU.12
Test Mode: BR_DH5_High channel+WIFI 2.4G_11b_Ch1
Order No/Sample No: 168581151/A004121829-008
Test Voltage: DC 3.3V
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

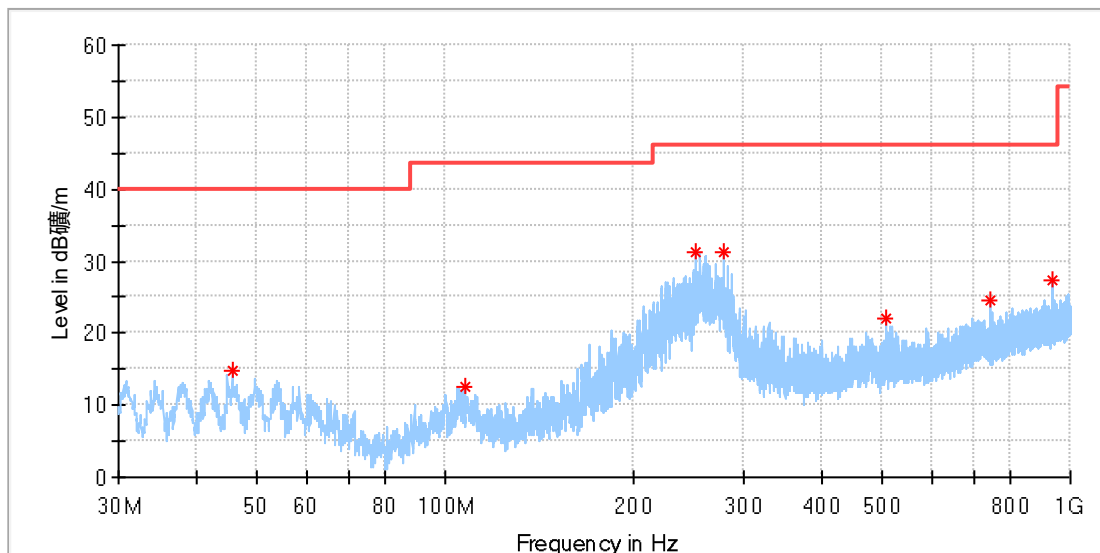
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.412222	16.05	40.00	23.95	100.0	V	271.0	-18.9
80.062778	20.01	40.00	19.99	100.0	V	271.0	-23.6
104.097222	20.14	43.50	23.36	100.0	V	235.0	-18.9
185.900556	25.56	43.50	17.94	100.0	V	271.0	-20.0
280.421667	30.00	46.00	16.00	100.0	V	213.0	-16.7
484.337222	24.75	46.00	21.25	100.0	V	68.0	-12.1
937.488889	25.58	46.00	20.42	100.0	V	307.0	-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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EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
Bluetooth 2.1+EDR/4.2/5.3
Model: SKI.WB822EU.12
Test Mode: BR_DH5_High channel+WIFI 5G_11a_Ch52
Order No/Sample No: 168581151/A004121829-008
Test Voltage: DC 3.3V
Remark: Temp 24 Humi:50%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

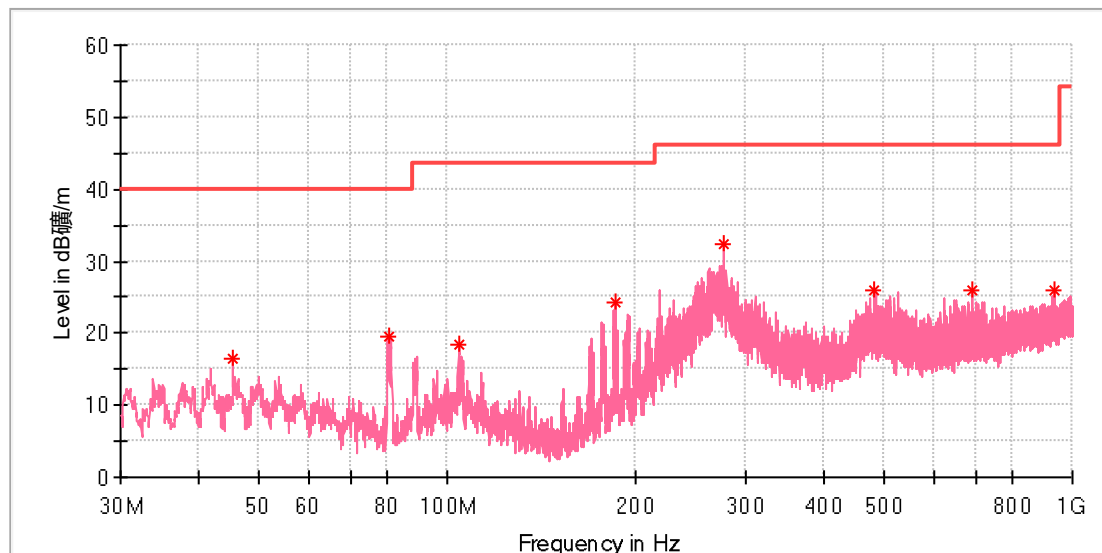
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.627778	14.83	40.00	25.17	100.0	H	0.0	-18.8
107.276667	12.49	43.50	31.01	100.0	H	199.0	-19.0
251.375556	31.34	46.00	14.66	100.0	H	0.0	-17.3
279.667222	31.26	46.00	14.74	100.0	H	324.0	-16.7
507.347778	22.14	46.00	23.86	100.0	H	103.0	-11.8
742.465000	24.60	46.00	21.40	100.0	H	266.0	-7.2
938.458889	27.39	46.00	18.61	100.0	H	205.0	-4.4

Final_Result

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

EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model: SKI.WB822EU.12
Test Mode: BR_DH5_High channel+WIFI 5G_11a_Ch52
Order No/Sample No: 168581151/A004121829-008
Test Voltage: DC 3.3V
Remark: Temp 24 Humi:50%
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)
45.412222	16.49	40.00	23.51	100.0	V	63.0	-18.9
80.386111	19.52	40.00	20.48	100.0	V	279.0	-23.5
104.151111	18.46	43.50	25.04	100.0	V	219.0	-18.9
185.631111	24.30	43.50	19.20	100.0	V	228.0	-20.0
277.673333	32.36	46.00	13.64	100.0	V	179.0	-16.8
480.618889	26.06	46.00	19.94	100.0	V	219.0	-12.1
692.833333	25.85	46.00	20.15	100.0	V	179.0	-8.1
938.458889	25.92	46.00	20.08	100.0	V	262.0	-4.4

Final_Result

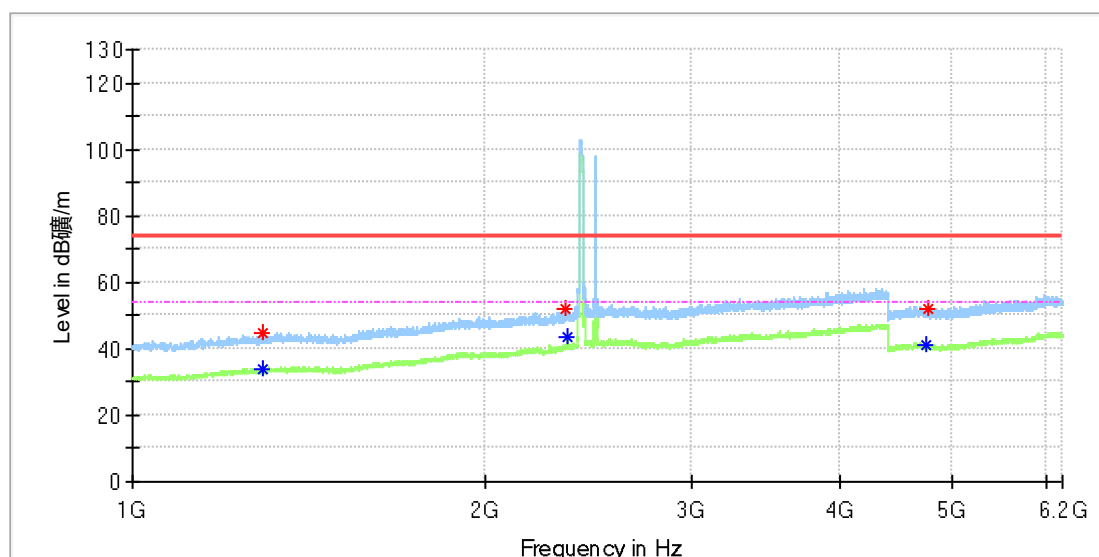
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz for co-location

Note: The highest waveform in the figure is Bluetooth and/or Wi-Fi Fundamental.

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
	Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_High channel+WIFI 2.4G_11b_Ch1
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
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)
1291.000000	44.63	---	74.00	29.37	150.0	H	322.0	2.7
1291.000000	---	33.80	54.00	20.20	150.0	H	322.0	2.7
2336.000000	52.13	---	74.00	21.87	150.0	H	304.0	8.4
2343.500000	---	43.45	54.00	10.55	150.0	H	322.0	8.4
4752.500000	---	41.16	54.00	12.84	150.0	H	84.0	13.3
4758.500000	52.02	---	74.00	21.98	150.0	H	11.0	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)
---	---	---	---	---	---		---	---

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

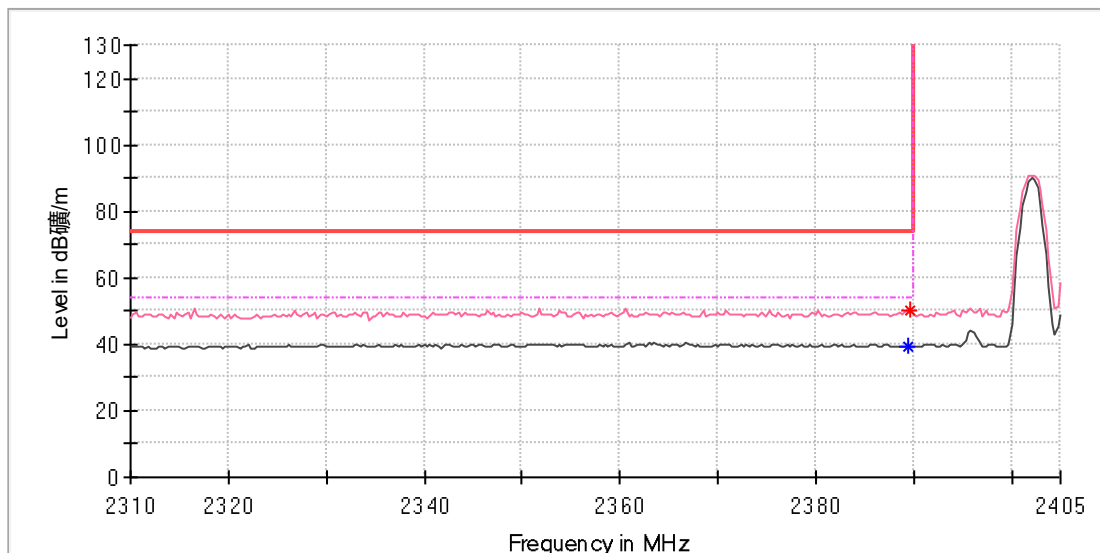
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

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

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

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Model:	SKI.WB822EU.12
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168581151/A004121829-008
Test Voltage:	DC 3.3V
Remark:	Temp 24 Humi:50%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

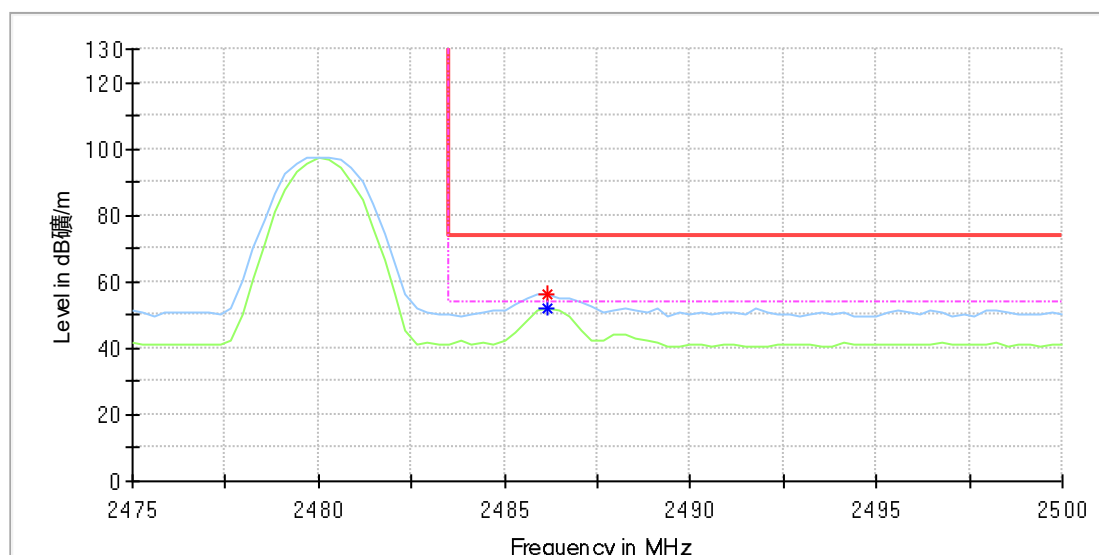
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	---	39.53	54.00	14.47	150.0	V	75.0	8.5
2389.705882	50.46	---	74.00	23.54	150.0	V	232.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
Model:	Bluetooth 2.1+EDR/4.2/5.3
Test Mode:	SKI.WB822EU.12
Order No/Sample No:	BR_DH5_High channel
Test Voltage:	168581151/A004121829-008
Remark:	DC 3.3V
Test Standard:	Temp 24 Humi:50%
Tested By:	FCC 15.247
Reviewed By:	Kei Zhang
	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)
2486.176471	56.33	---	74.00	17.67	150.0	H	0.0	9.0
2486.176471	---	51.98	54.00	2.02	150.0	H	0.0	9.0

Final Result

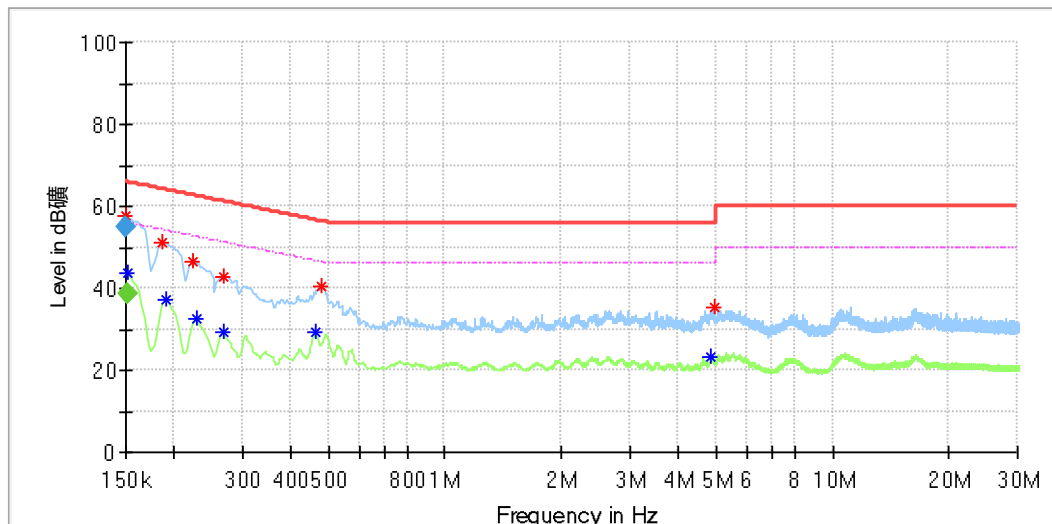
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

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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Appendix A.9: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated
Bluetooth 2.1+EDR/4.2/5.3
Order Number: 168581151
Model: SKI.WB822EU.12
Test Mode: BT+WIFI Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Steve Lan/Murphy Chen
Tem./Hum./Pressure: 24.9°C/50.4%/101kPa
Remark: SR 3



Critical Freqs

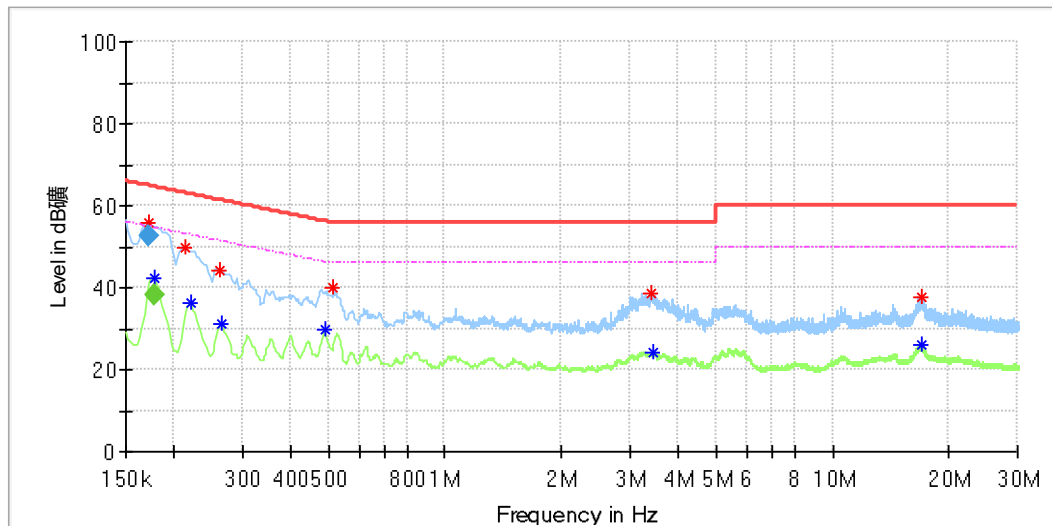
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150	57.6	---	66.00	8.40	L1	9.5
0.152	---	43.6	55.86	12.24	L1	9.5
0.187	51.2	---	64.16	12.92	L1	9.7
0.190	---	37.3	54.05	16.78	L1	9.7
0.225	46.5	---	62.65	16.16	L1	9.7
0.230	---	32.4	52.46	20.10	L1	9.7
0.267	---	29.2	51.21	22.06	L1	9.6
0.267	42.7	---	61.21	18.49	L1	9.6
0.461	---	29.5	46.68	17.20	L1	9.5
0.478	40.5	---	56.37	15.91	L1	9.5
4.851	---	23.4	46.00	22.63	L1	9.7
4.938	35.1	---	56.00	20.86	L1	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150	54.8	---	66.00	11.22	1000.0	9.0	L1	9.5
0.152	---	38.6	55.86	17.27	1000.0	9.0	L1	9.5

EUT Information

EUT Name: IEEE 802.11a/b/g/n/ac 2T2R USB Wi-Fi&IR Module Integrated Bluetooth 2.1+EDR/4.2/5.3
Order Number: 168581151
Model: SKI.WB822EU.12
Test Mode: BT+WIFI Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By:/Review By: Steve Lan/Murphy Chen
Tem./Hum./Pressure: 24.9°C/50.4%/101kPa
Remark: SR 3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.172	55.9	---	64.85	8.90	N	9.8
0.177	---	42.4	54.61	12.16	N	9.9
0.215	49.7	---	63.02	13.30	N	9.9
0.222	---	36.2	52.74	16.55	N	9.9
0.262	44.3	---	61.37	17.04	N	9.9
0.264	---	31.2	51.29	20.10	N	9.9
0.488	---	29.6	46.20	16.61	N	9.9
0.516	39.8	---	56.00	16.22	N	9.9
3.386	38.5	---	56.00	17.51	N	9.7
3.438	---	24.2	46.00	21.79	N	9.7
16.898	37.9	---	60.00	22.10	N	9.6
16.958	---	26.0	50.00	23.98	N	9.6

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.172	52.5	---	64.85	12.32	1000.0	9.0	N	9.8
0.177	---	38.1	54.61	16.51	1000.0	9.0	N	9.9