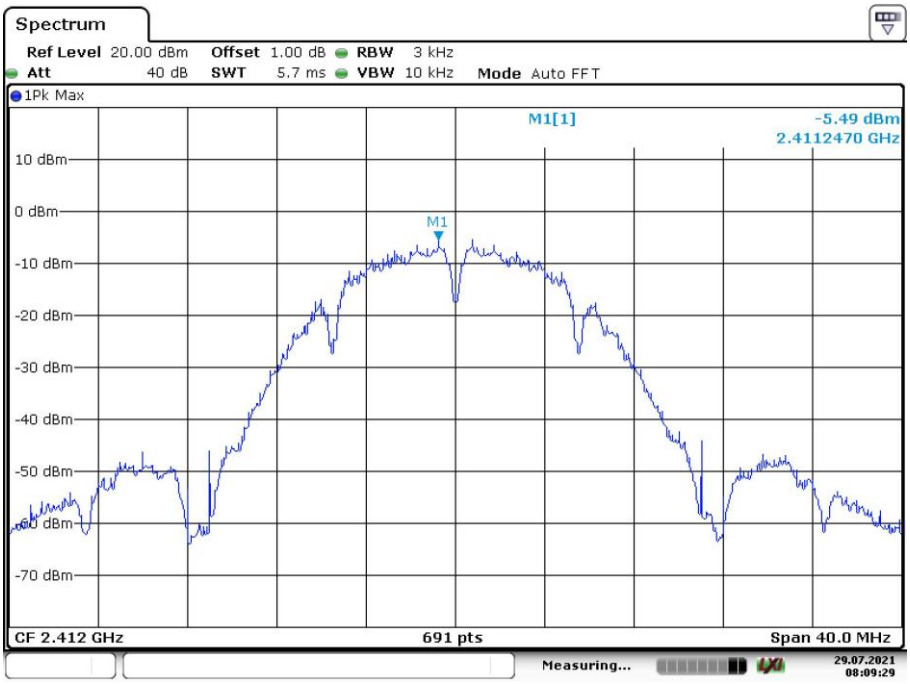
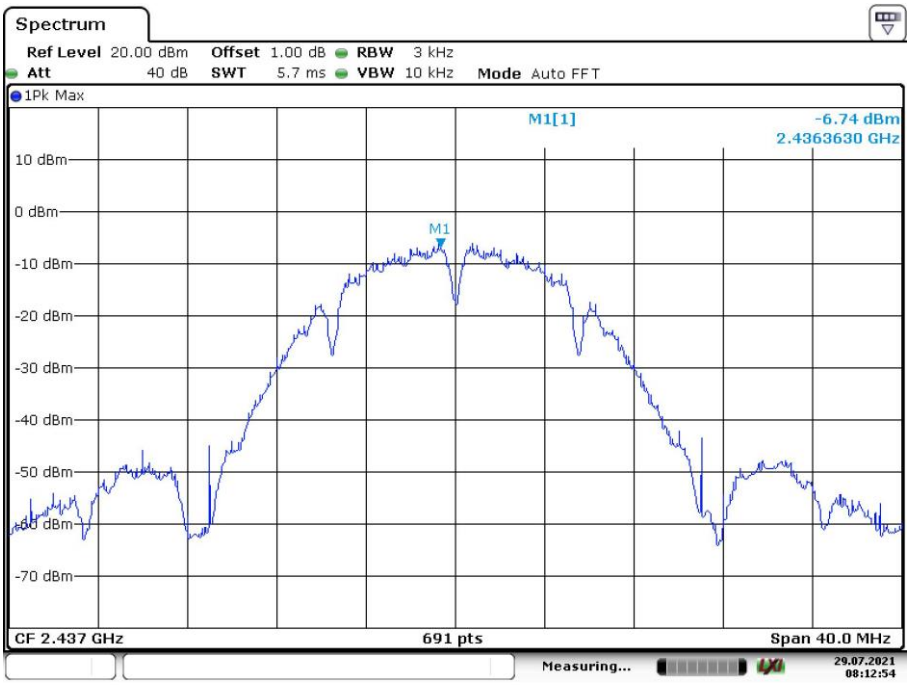
Appendix B: Test Results

Appendix B.1: Test Results of Conducted Power Spectral Density

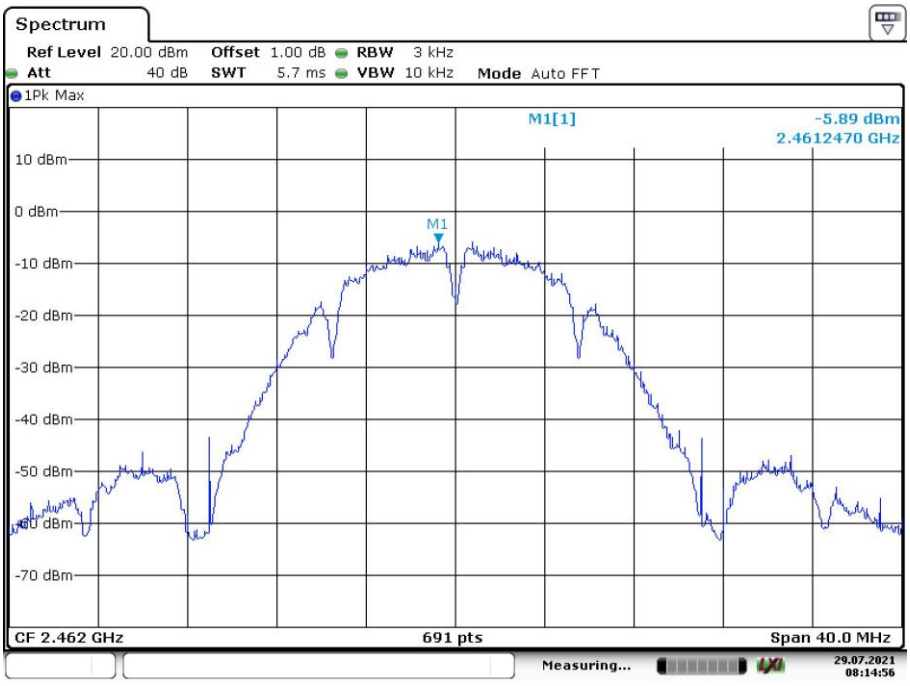
Wi-Fi 802.11 b mode, 1 Mbps



Date: 29.JUL.2021 08:09:30

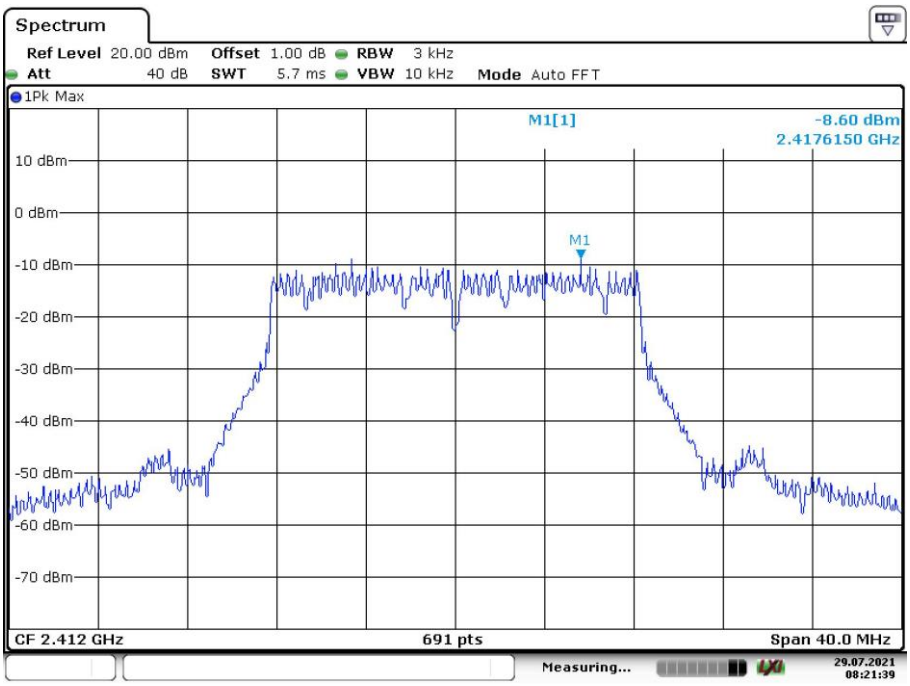


Date: 29.JUL.2021 08:12:54

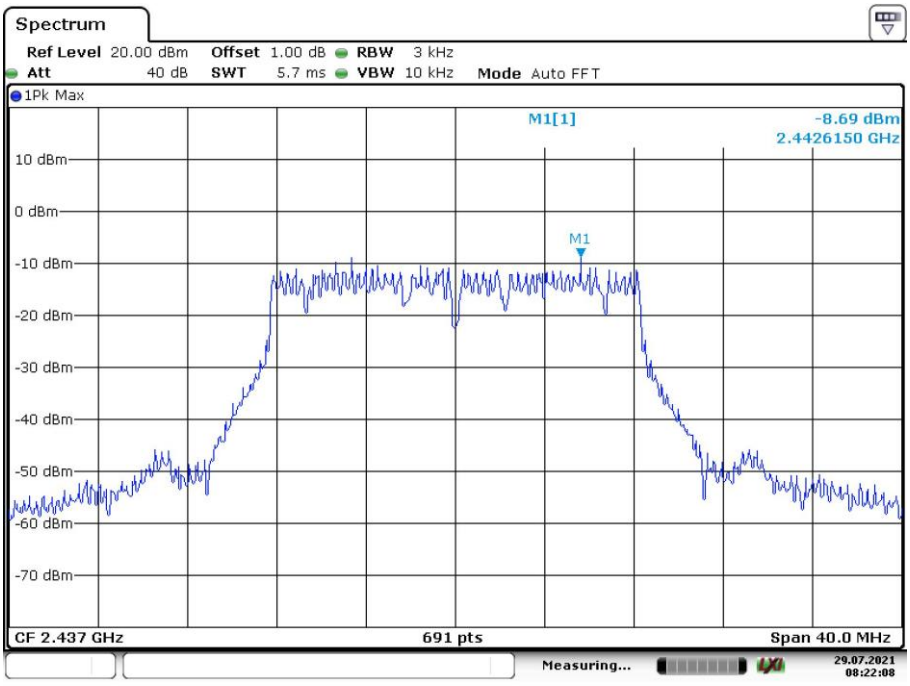


Date: 29.JUL.2021 08:14:56

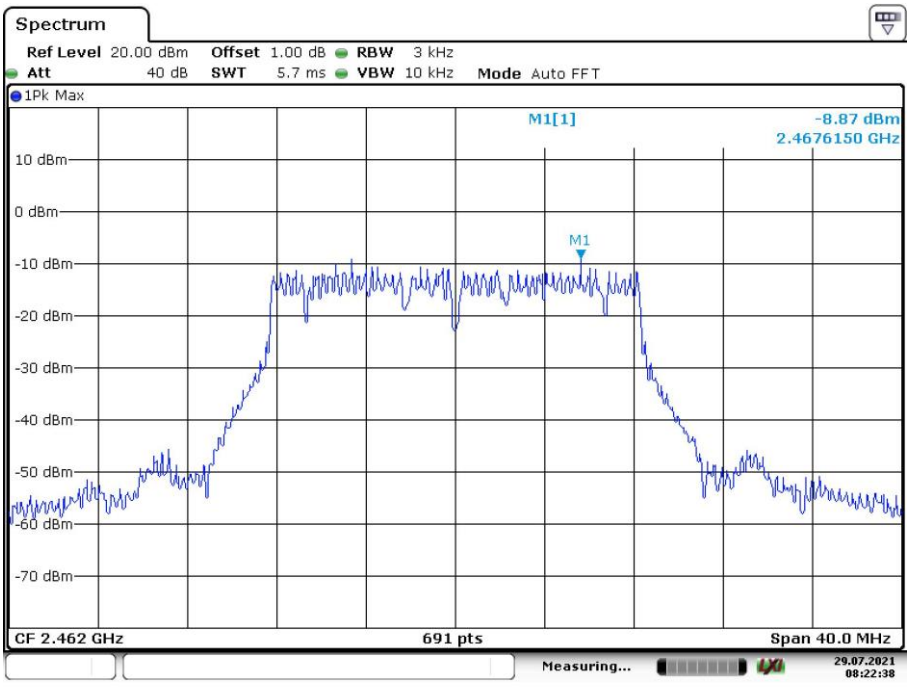
Wi-Fi 802.11 g mode, 6 Mbps



Date: 29.JUL.2021 08:21:39

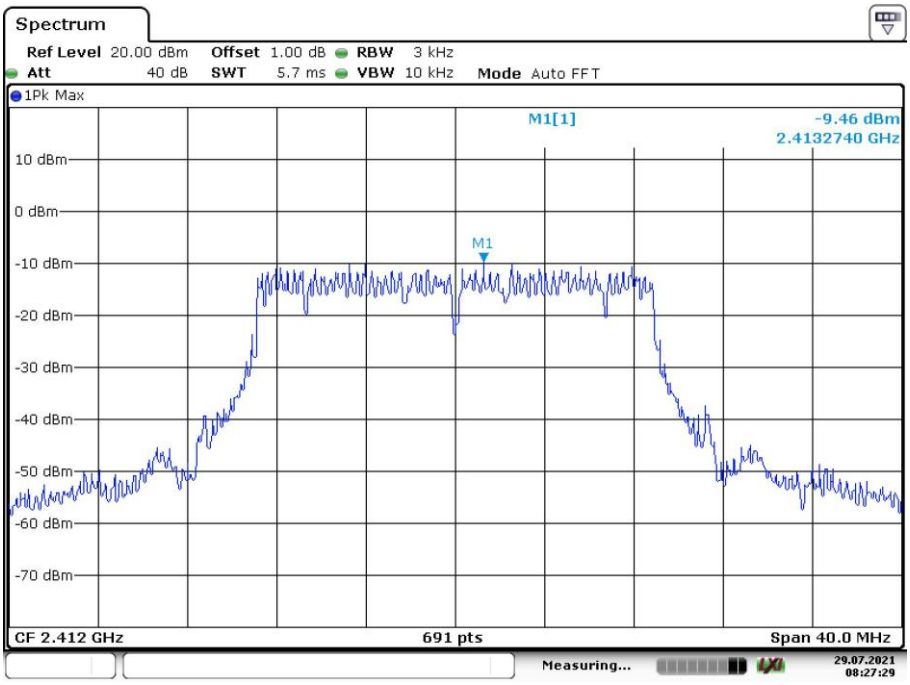


Date: 29.JUL.2021 08:22:08

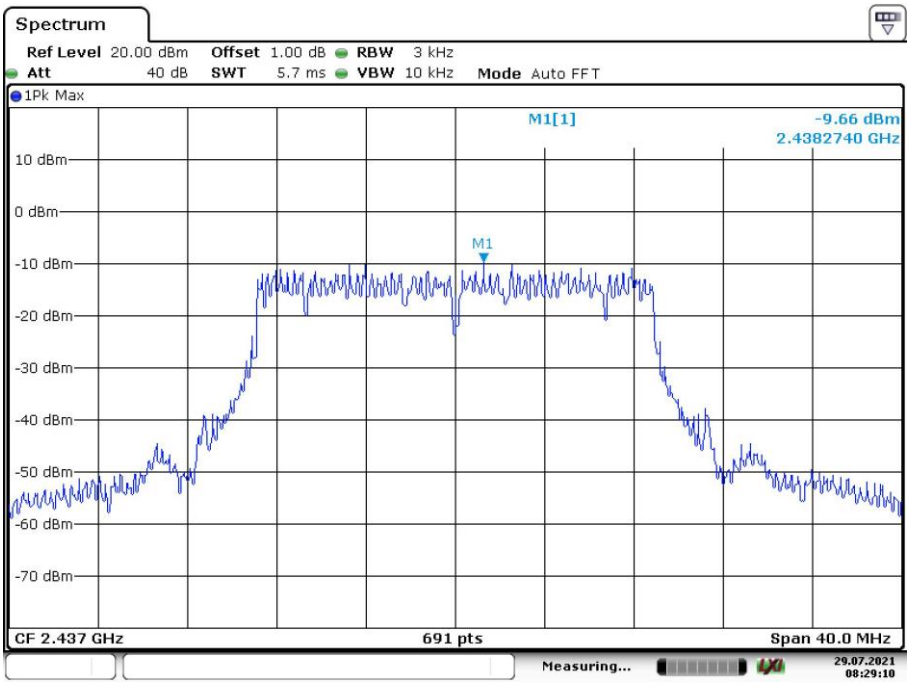


Date: 29.JUL.2021 08:22:38

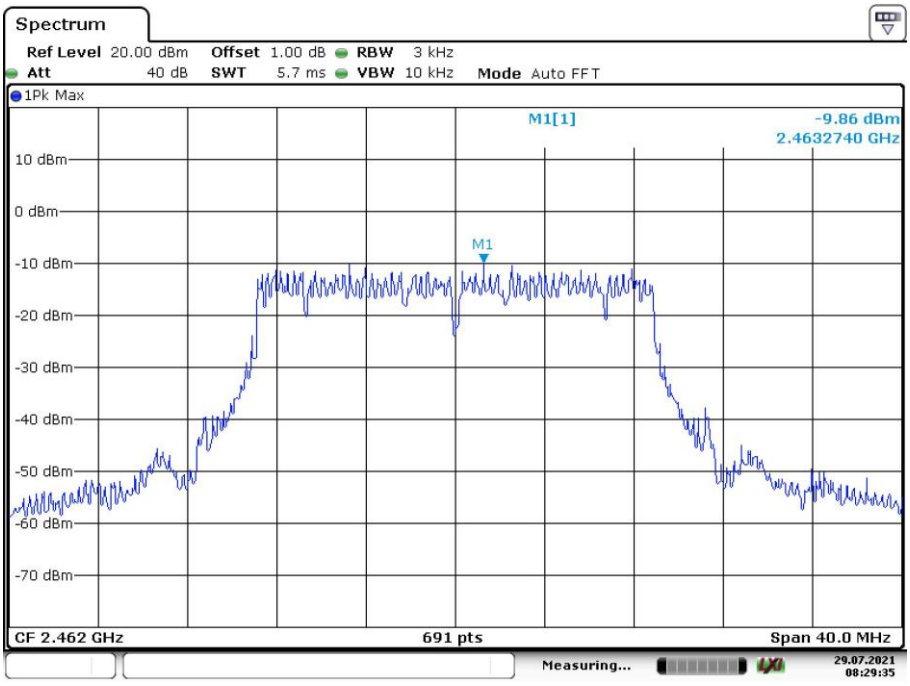
Wi-Fi 802.11 n(HT20) mode, MCS0



Date: 29.JUL.2021 08:27:29



Date: 29.JUL.2021 08:29:10



Date: 29.JUL.2021 08:29:35

Appendix B.2: Test Results of 6dB Bandwidth

Wi-Fi 802.11 b mode, 1 Mbps

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

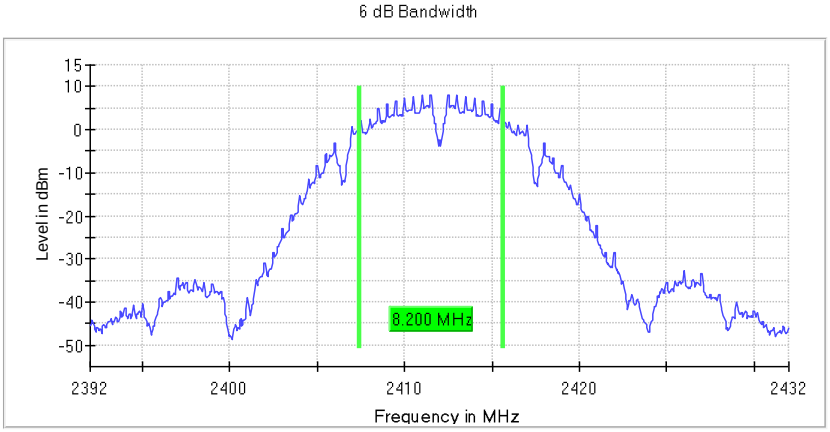
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	8.200000	0.500000	---	2407.425000	2415.625000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	8.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	20 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

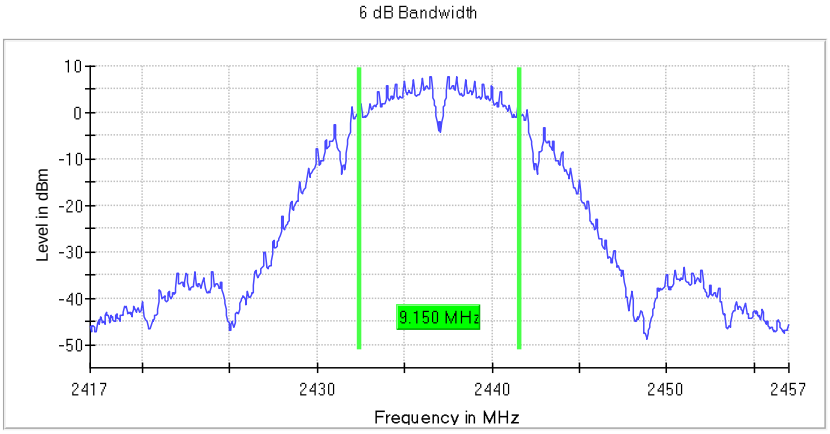
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	9.150000	0.500000	---	2432.425000	2441.575000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	7.7	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	24 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

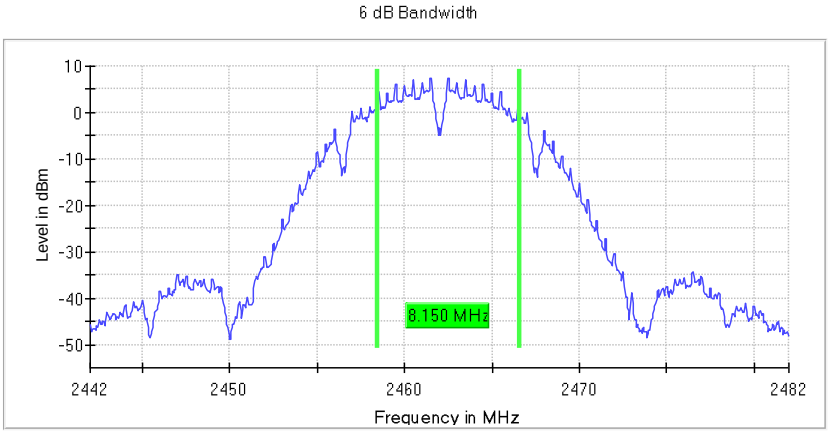
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	8.150000	0.500000	---	2458.425000	2466.575000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	7.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.49 dB	0.50 dB

Wi-Fi 802.11 g mode, 6 Mbps

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

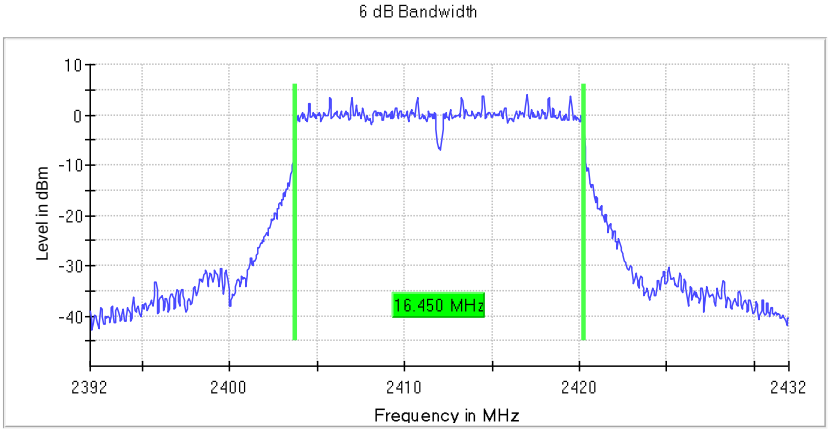
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.450000	0.500000	---	2403.775000	2420.225000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	4.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	44 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

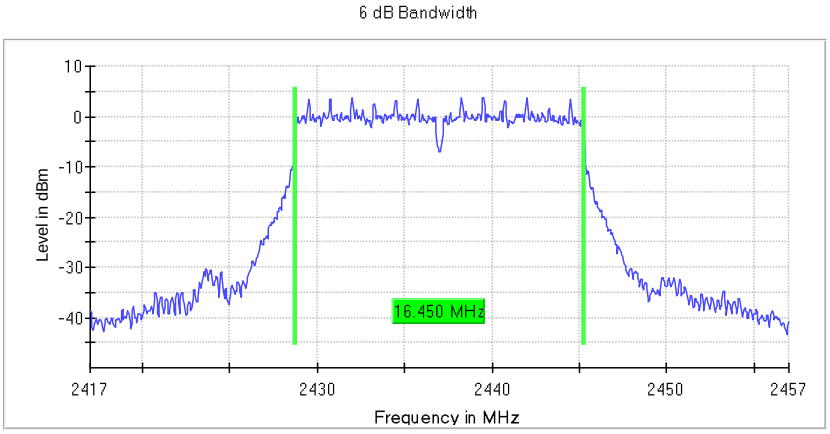
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.450000	0.500000	---	2428.775000	2445.225000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	3.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	41 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.38 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

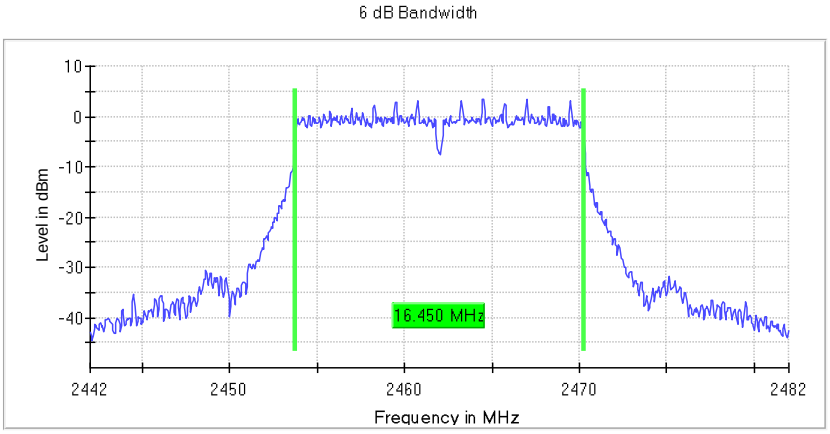
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.450000	0.500000	---	2453.775000	2470.225000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	3.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	48 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.30 dB	0.50 dB

Wi-Fi 802.11 n(HT20) mode, MCS0

Minimum Emission Bandwidth 6 dB (2412 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

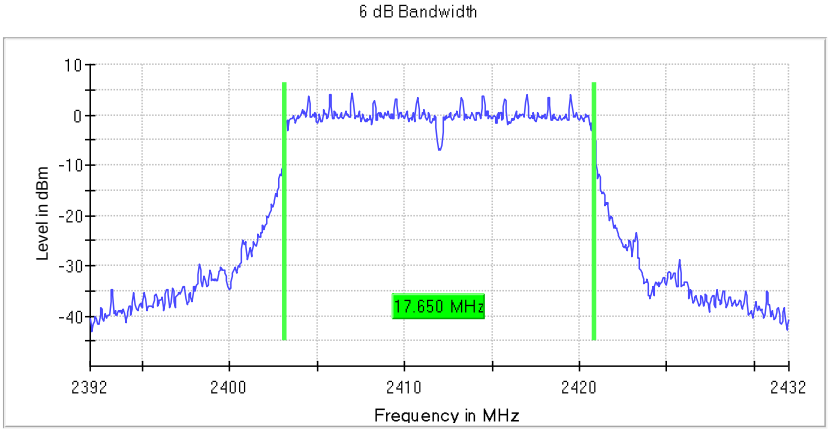
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.650000	0.500000	---	2403.175000	2420.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	4.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	46 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.25 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2437 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

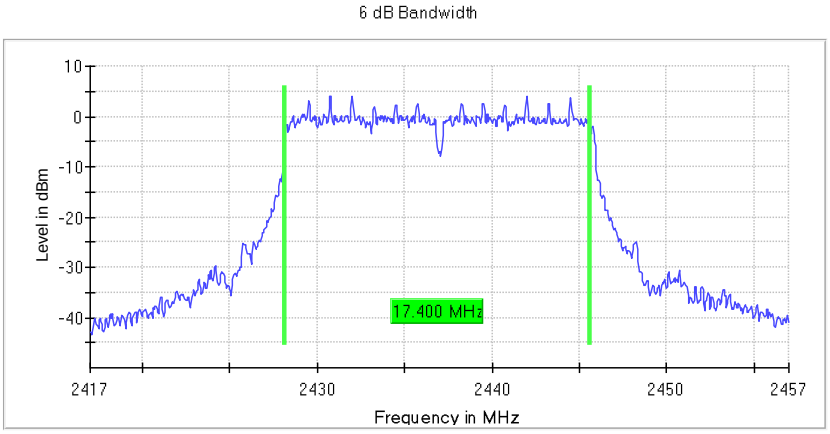
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.400000	0.500000	---	2428.175000	2445.575000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	4.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	36 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.46 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2462 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

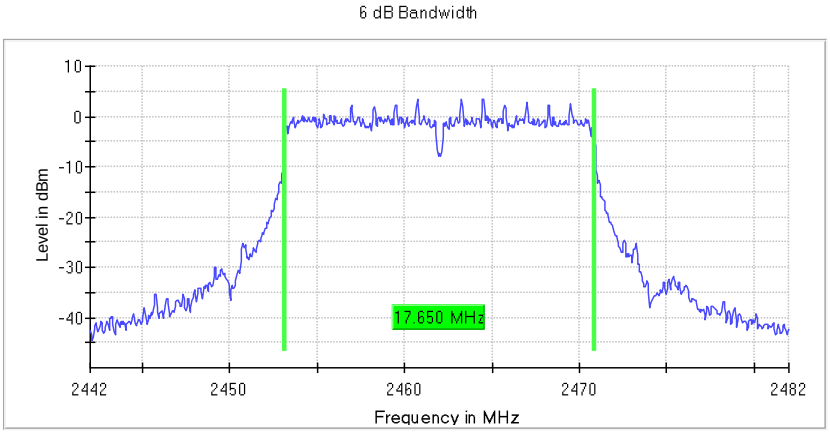
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.650000	0.500000	---	2453.175000	2470.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	3.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	94.922 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.50 dB	0.50 dB
Run	36 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.50 dB

Appendix B.3: Test Results of 99% Bandwidth

Wi-Fi 802.11 b mode, 1 Mbps

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz (11b_20MHz))

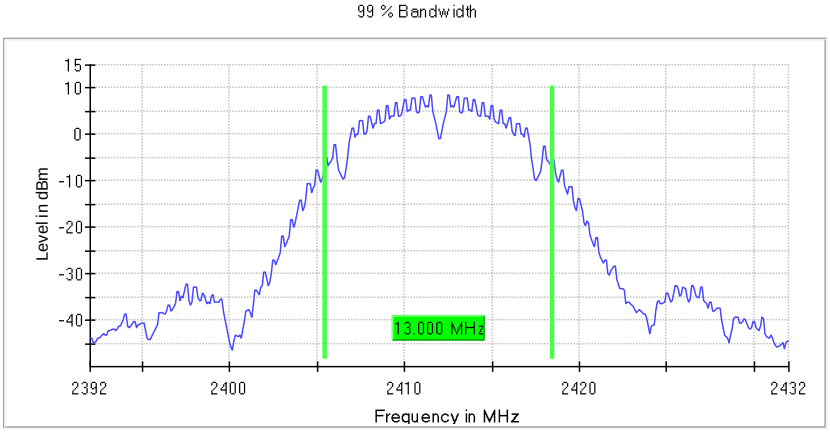
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	13.000000	---	---	2405.450000	2418.450000

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

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.28 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz (11b_20MHz))

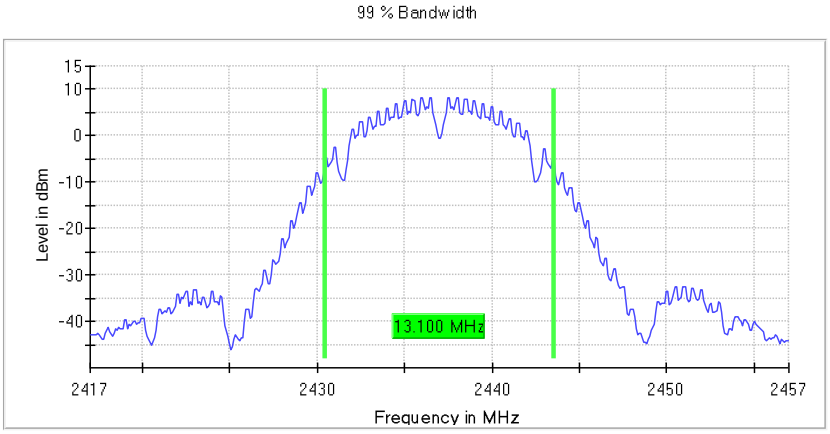
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	13.100000	---	---	2430.450000	2443.550000

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

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	0.10 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11b_20MHz))

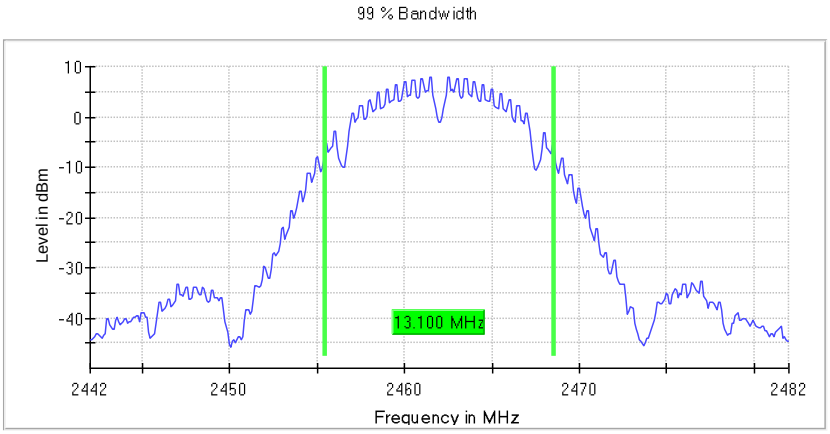
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	13.100000	---	---	2455.450000	2468.550000

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

DUT Frequency (MHz)	Result
2462.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	11 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.04 dB	0.30 dB

Wi-Fi 802.11 g mode, 6 Mbps

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz (11g_20MHz))

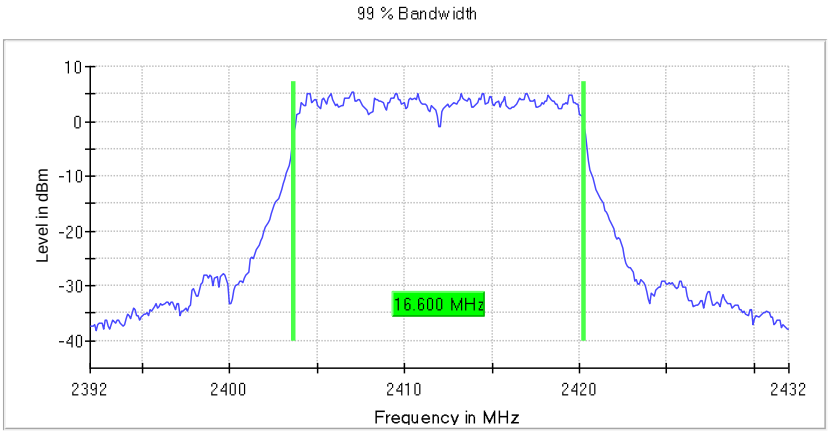
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	16.600000	---	---	2403.650000	2420.250000

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

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	47 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.01 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz (11g_20MHz))

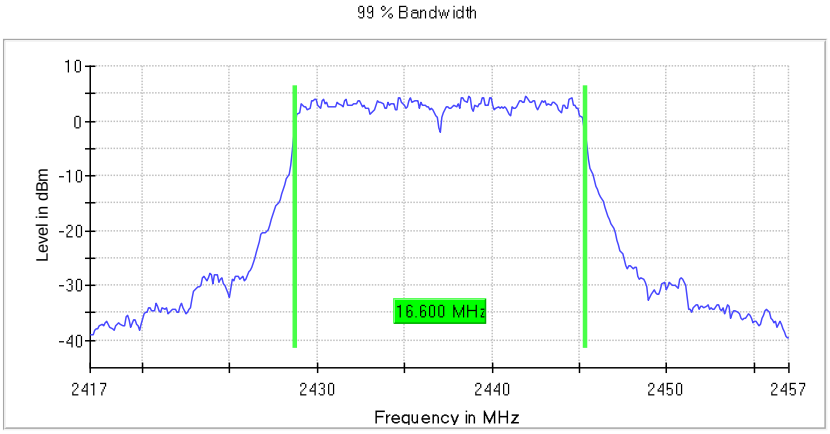
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	16.600000	---	---	2428.750000	2445.350000

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

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	38 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11g_20MHz))

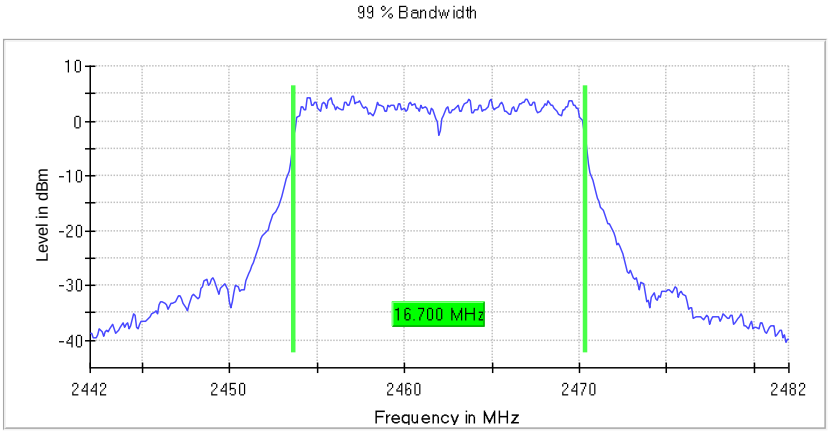
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	16.700000	---	---	2453.650000	2470.350000

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

DUT Frequency (MHz)	Result
2462.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	50 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.16 dB	0.30 dB

Wi-Fi 802.11 n(HT20) mode, MCS0

Occupied Channel Bandwidth 99% (2412 MHz; 30.000 dBm; 20 MHz (11n_20MHz))

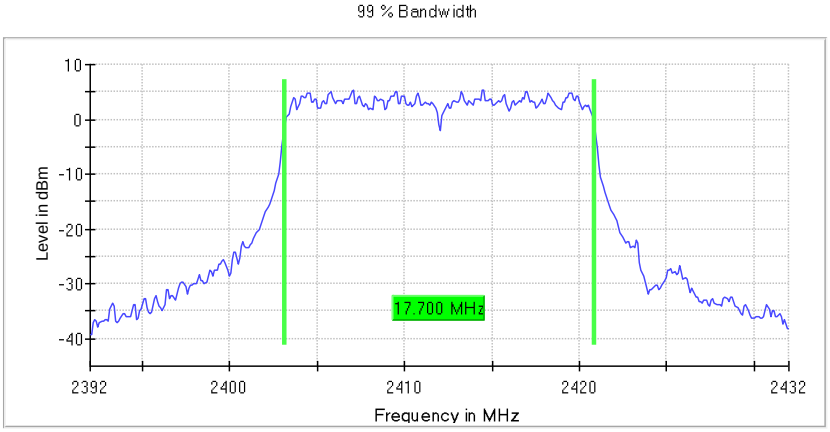
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.700000	---	---	2403.150000	2420.850000

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

DUT Frequency (MHz)	Result
2412.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	56 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Occupied Channel Bandwidth 99% (2437 MHz; 30.000 dBm; 20 MHz (11n_20MHz))

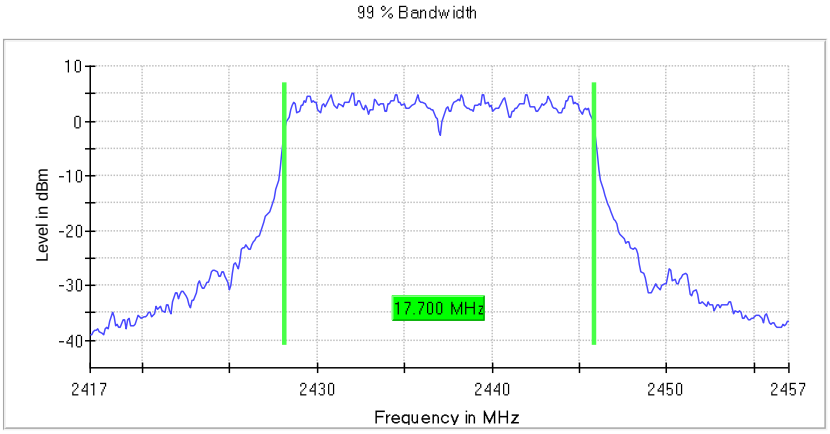
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.700000	---	---	2428.150000	2445.850000

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

DUT Frequency (MHz)	Result
2437.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	60 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.30 dB

Occupied Channel Bandwidth 99% (2462 MHz; 30.000 dBm; 20 MHz(11n_20MHz))

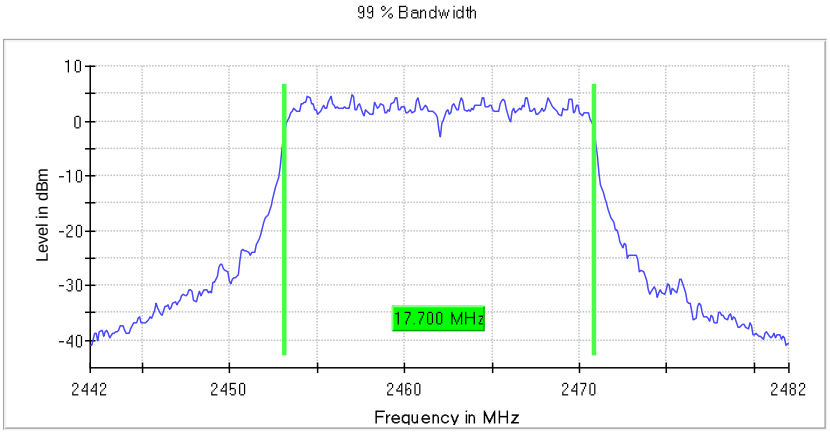
Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10 - 2013

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.700000	---	---	2453.150000	2470.850000

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

DUT Frequency (MHz)	Result
2462.000000	PASS

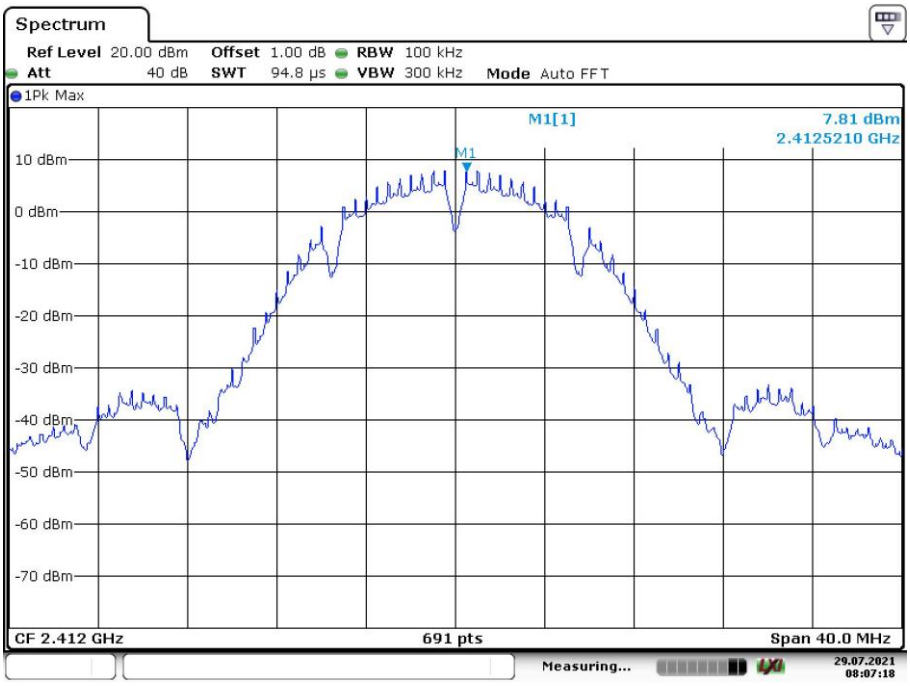


Measurement

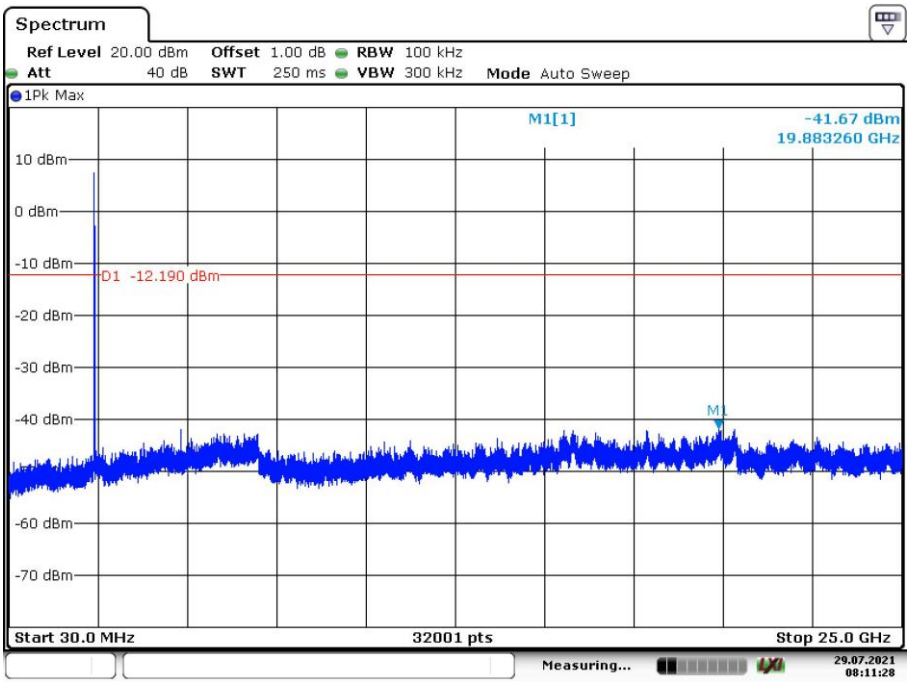
Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	47.266 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	29 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.11 dB	0.30 dB

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

Wi-Fi 802.11 b mode, 1 Mbps
Low Channel:

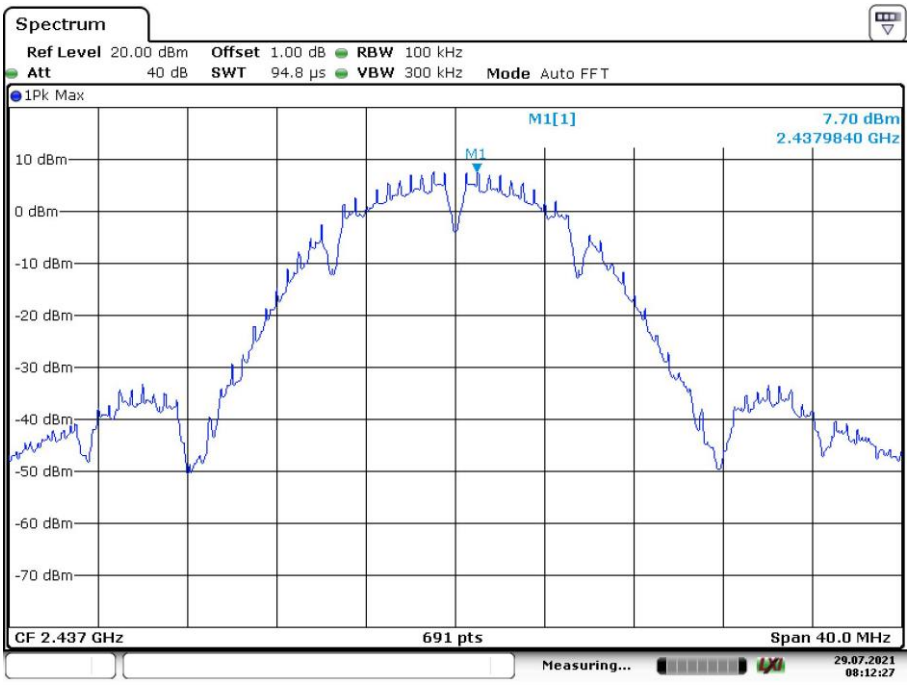


Date: 29.JUL.2021 08:07:19

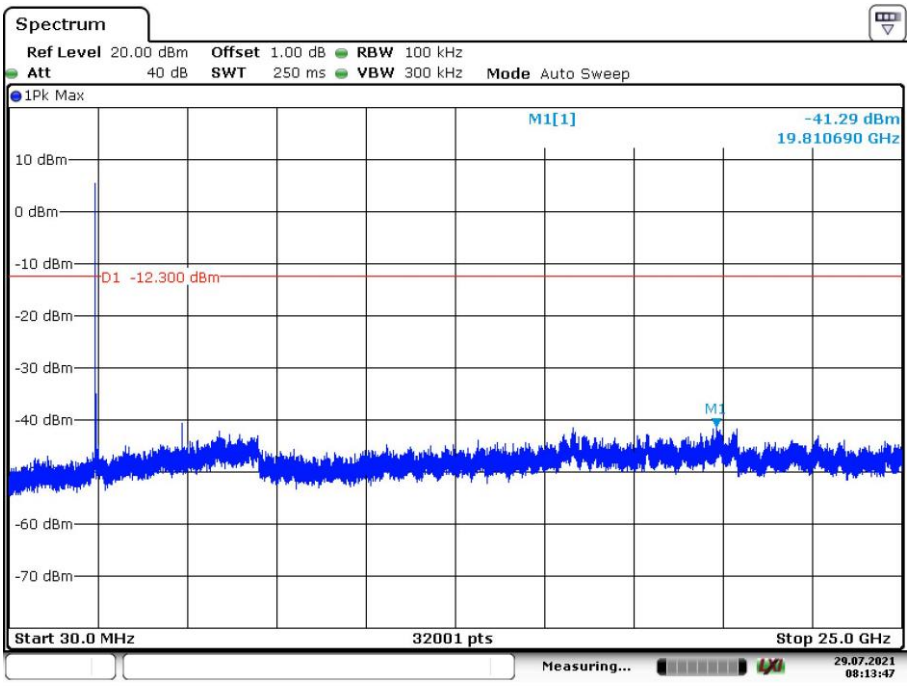


Date: 29.JUL.2021 08:11:28

Middle Channel:

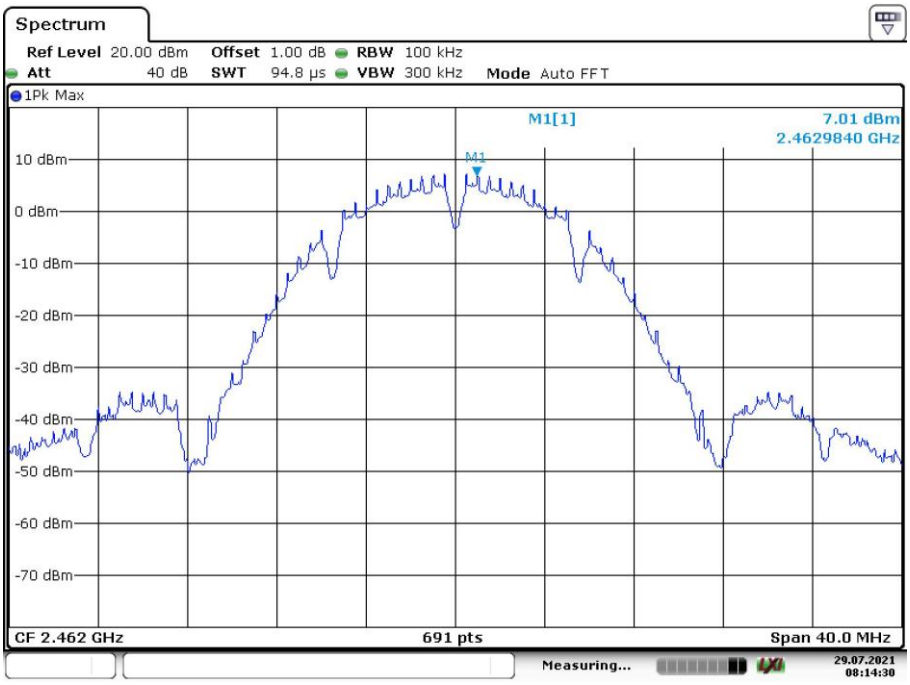


Date: 29.JUL.2021 08:12:26

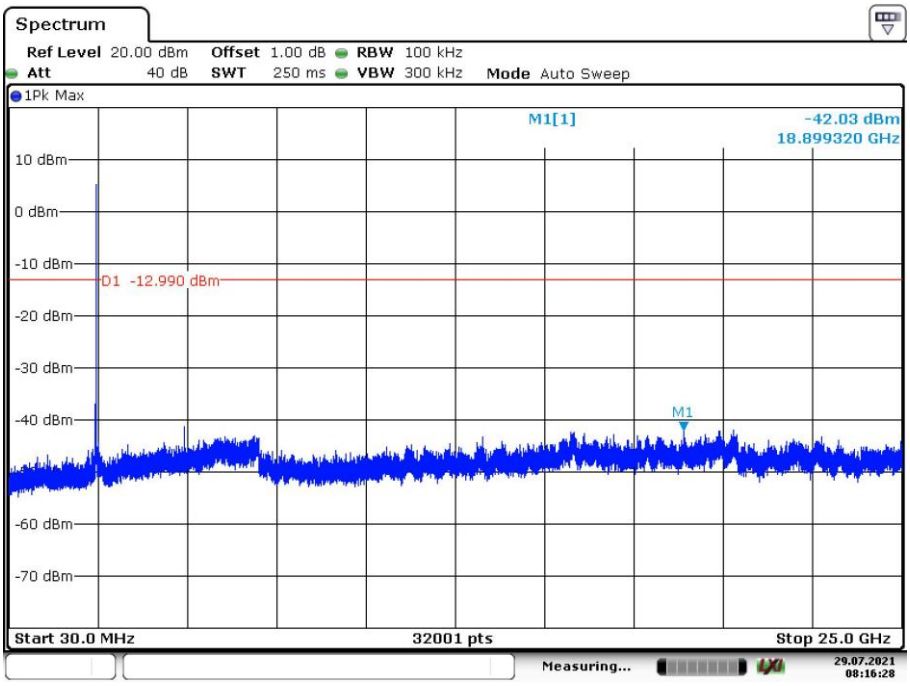


Date: 29.JUL.2021 08:13:47

High Channel:

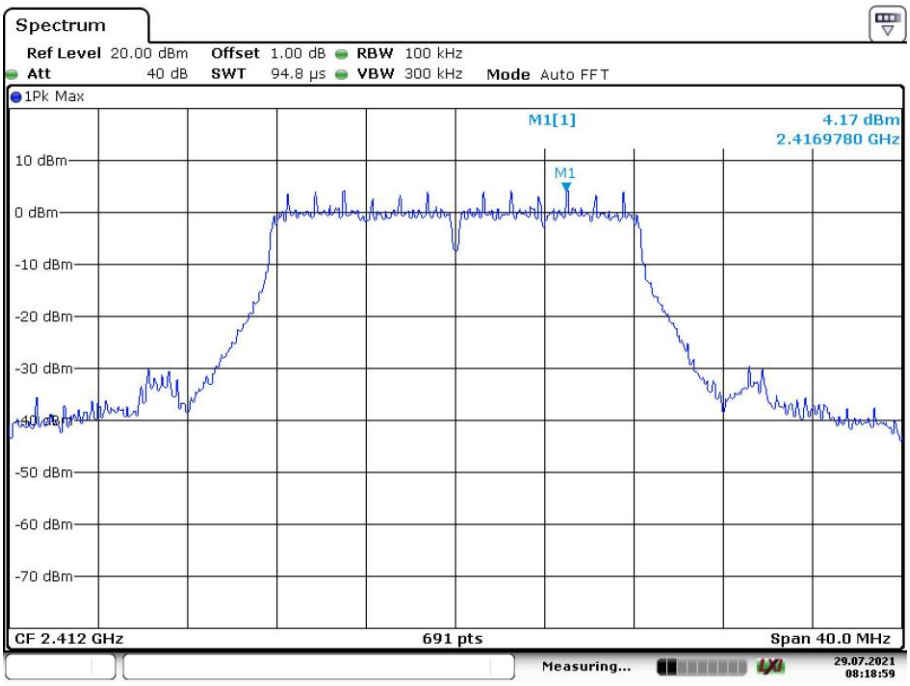


Date: 29.JUL.2021 08:14:30

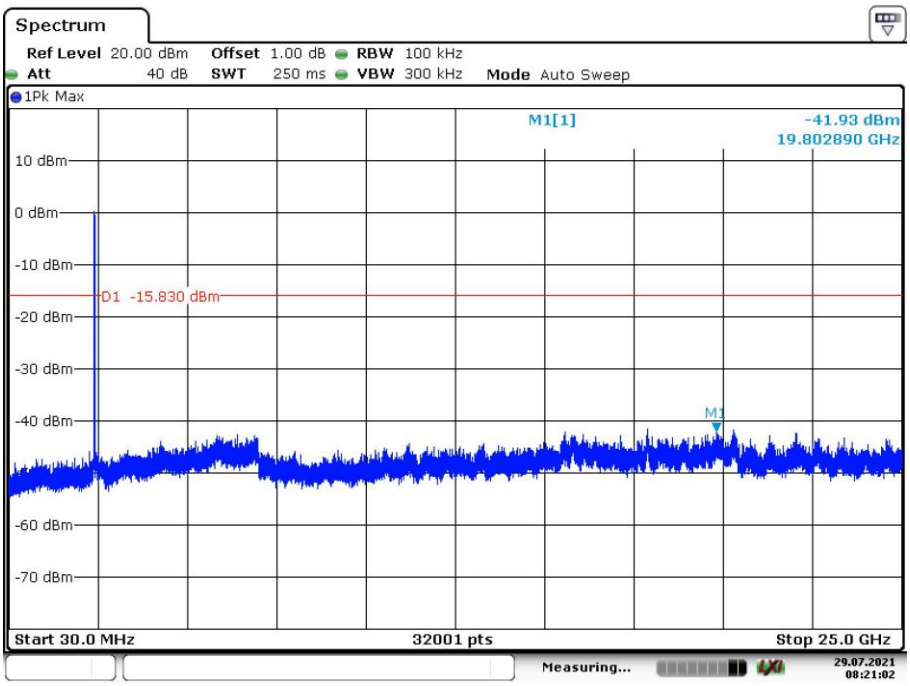


Date: 29.JUL.2021 08:16:28

Wi-Fi 802.11 g mode, 6 Mbps
Low Channel:

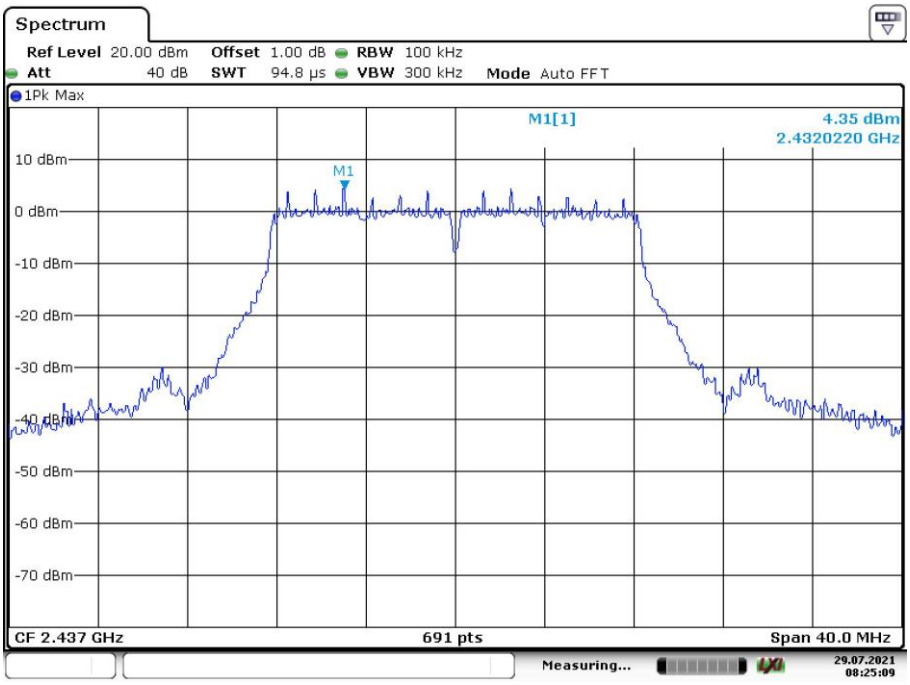


Date: 29.JUL.2021 08:18:59

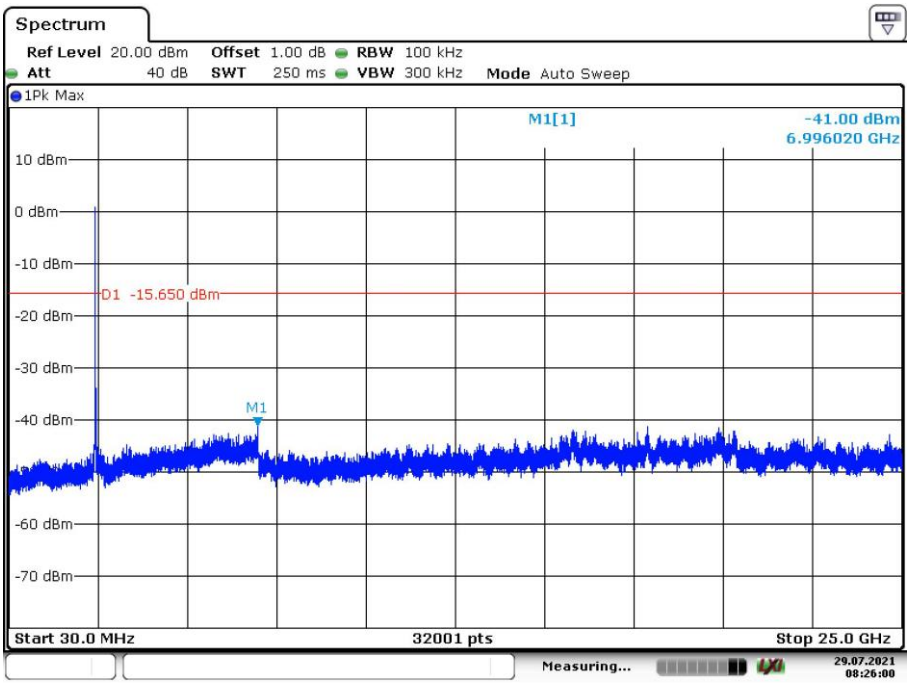


Date: 29.JUL.2021 08:21:02

Middle Channel:

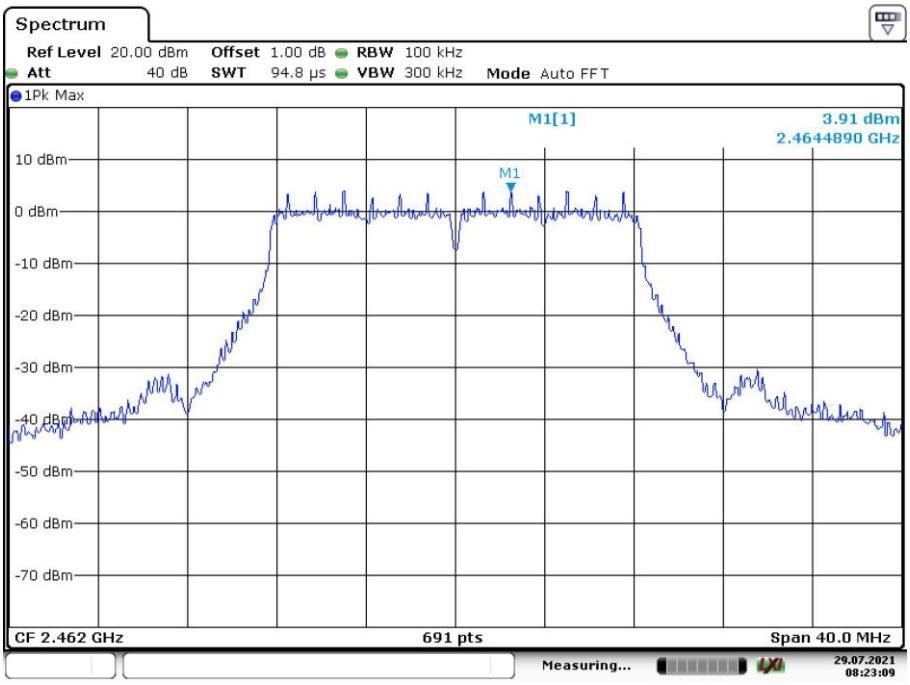


Date: 29.JUL.2021 08:25:08

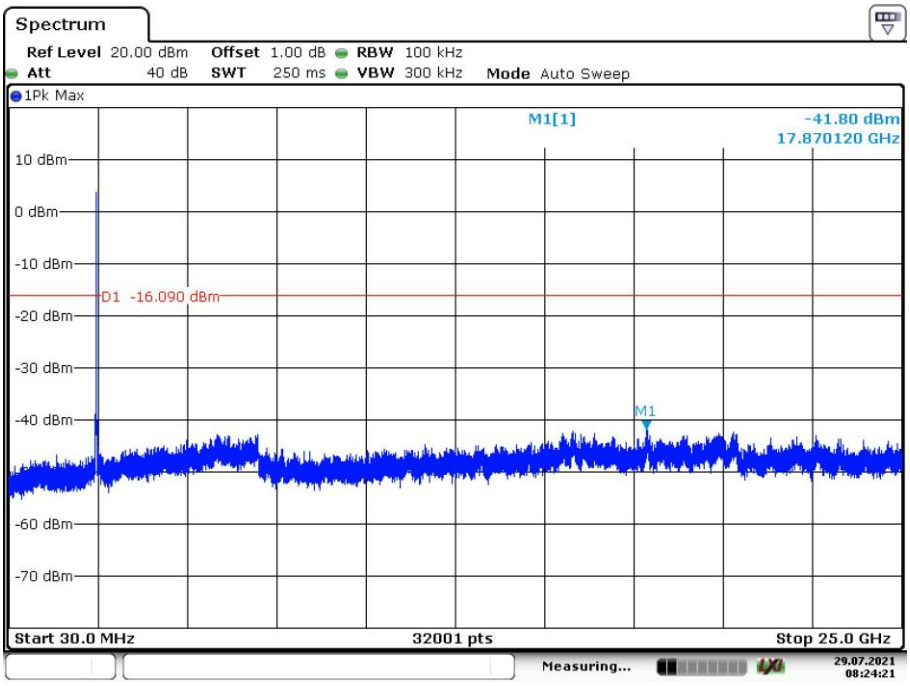


Date: 29.JUL.2021 08:26:00

High Channel:

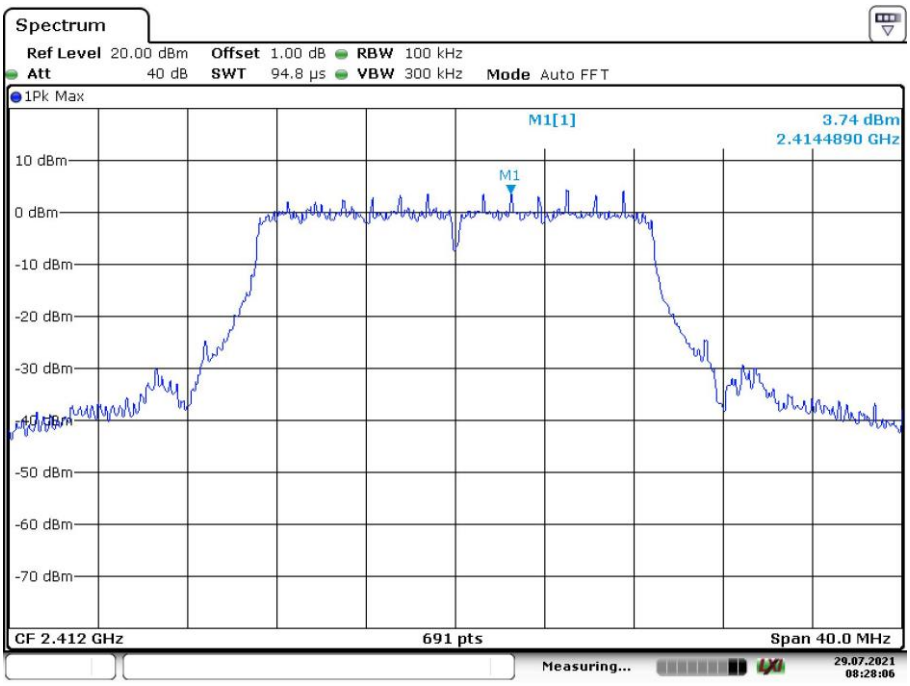


Date: 29.JUL.2021 08:23:09

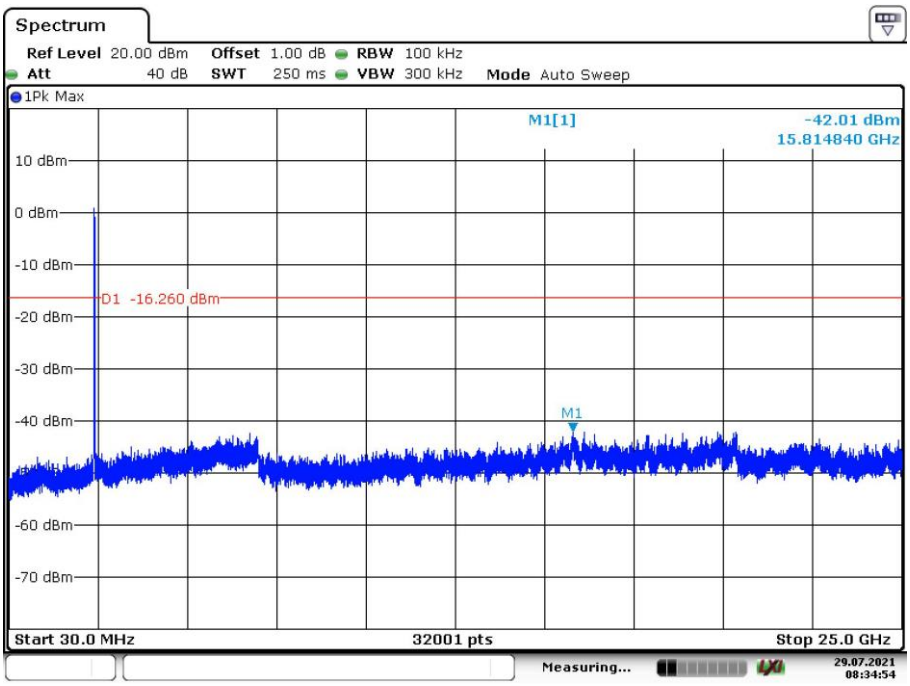


Date: 29.JUL.2021 08:24:21

Wi-Fi 802.11 n(HT20) mode, MCS0
Low Channel:

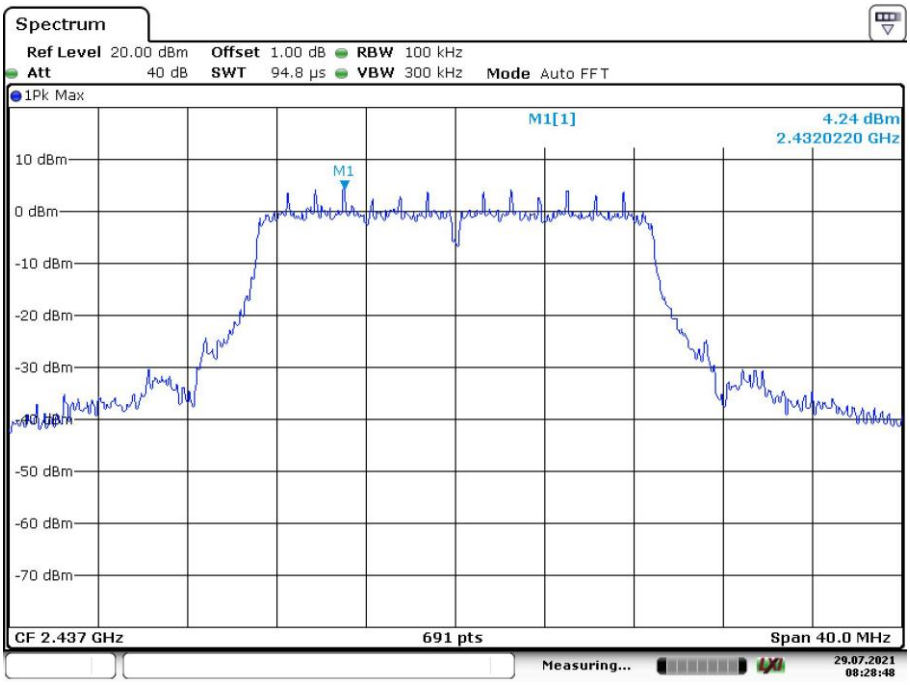


Date: 29.JUL.2021 08:28:06

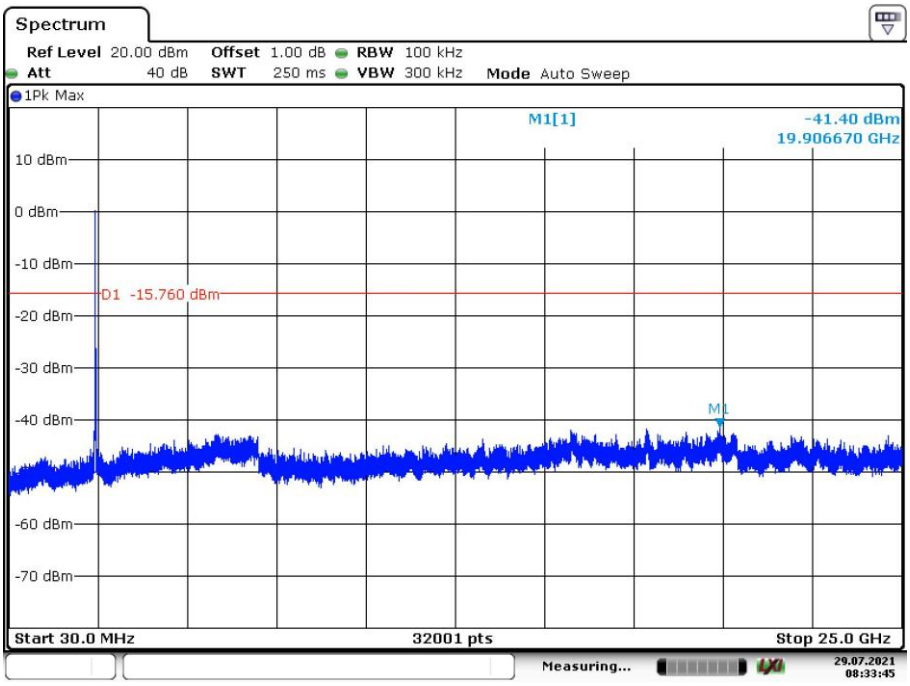


Date: 29.JUL.2021 08:34:54

Middle Channel:

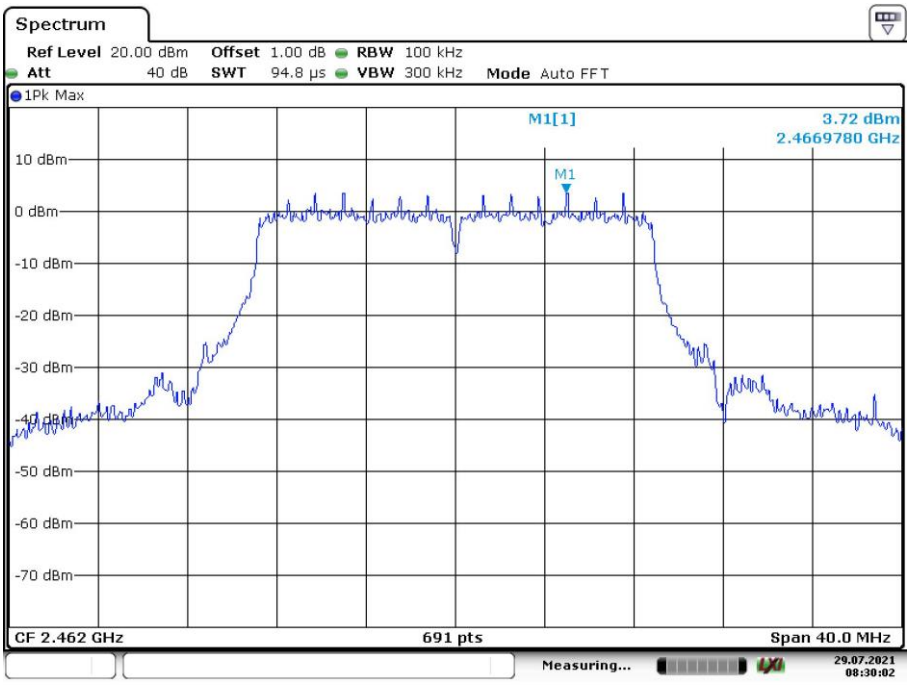


Date: 29.JUL.2021 08:28:48

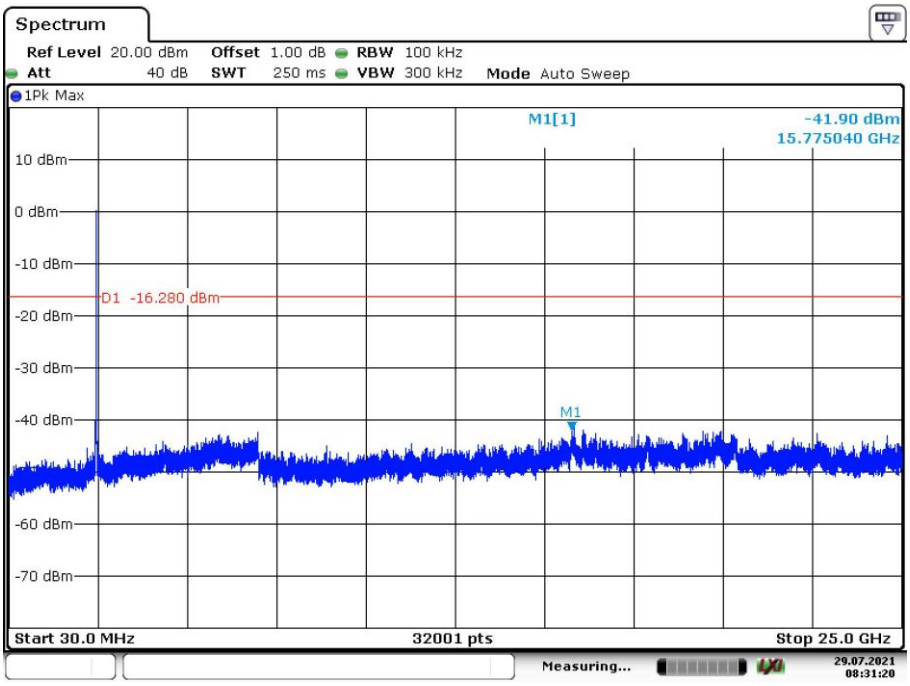


Date: 29.JUL.2021 08:33:45

High Channel:

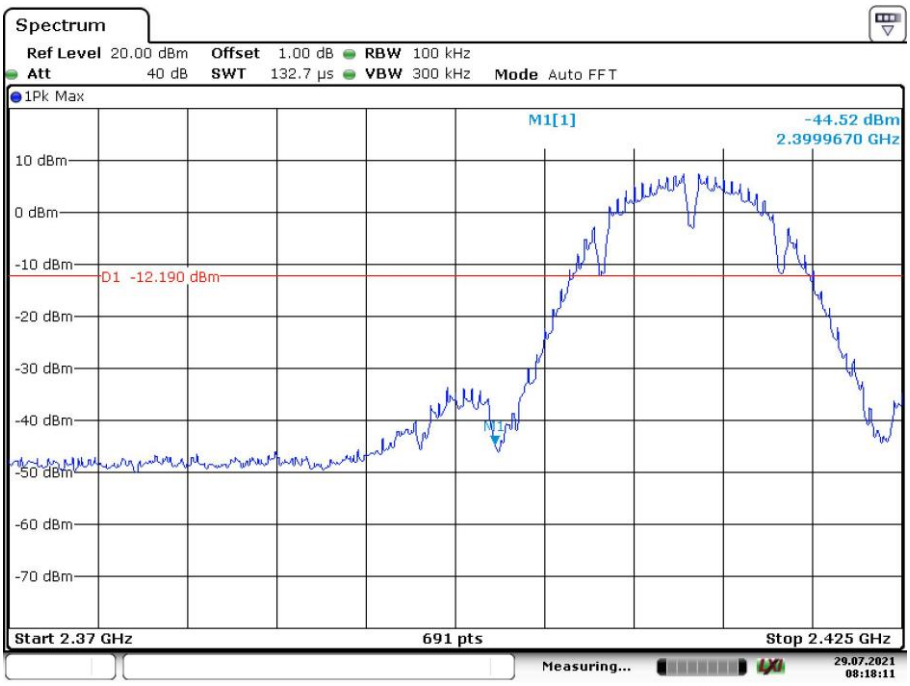


Date: 29.JUL.2021 08:30:02



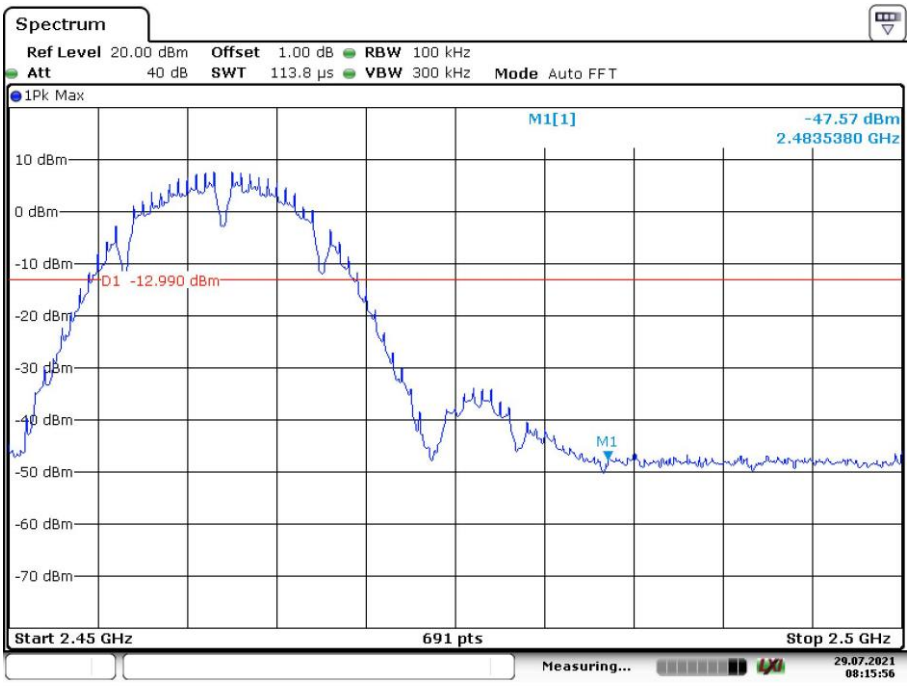
Date: 29.JUL.2021 08:31:20

Wi-Fi 802.11 b mode, Band Edge
Low Channel:



Date: 29.JUL.2021 08:18:11

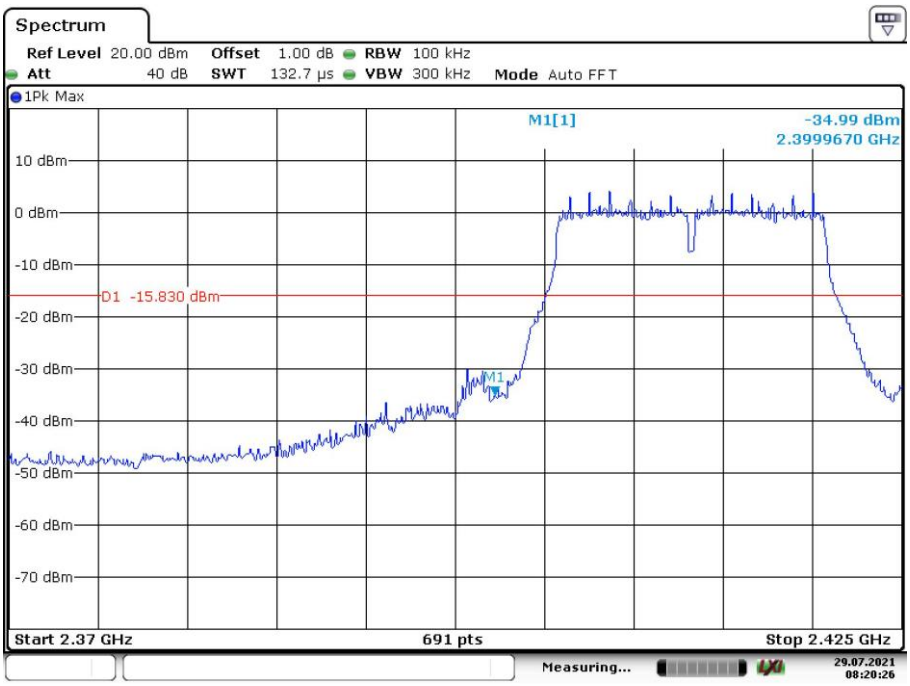
High Channel:



Date: 29.JUL.2021 08:15:56

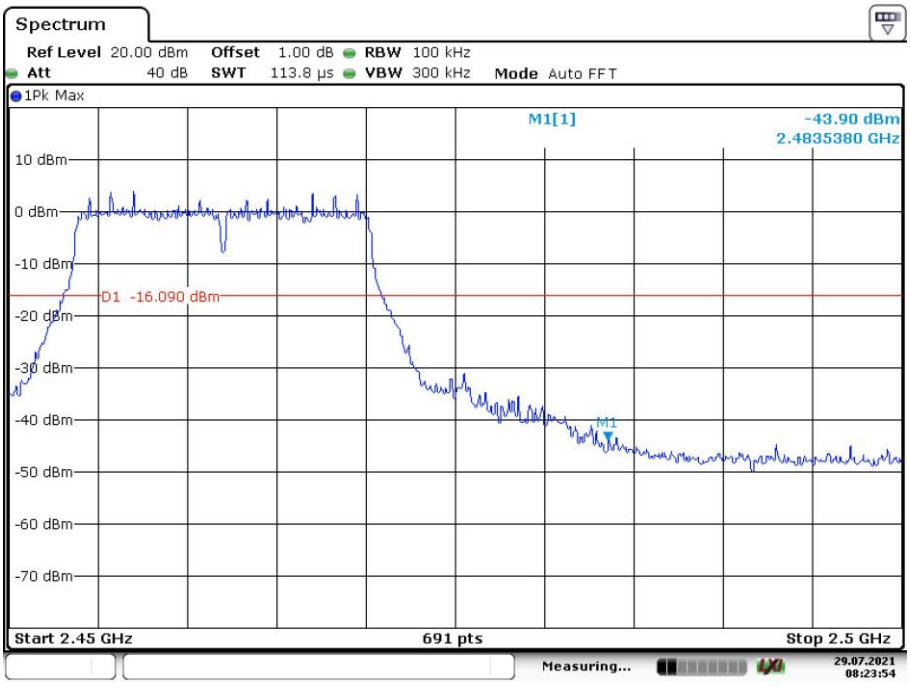
Wi-Fi 802.11 g mode, Band Edge

Low Channel:



Date: 29.JUL.2021 08:20:26

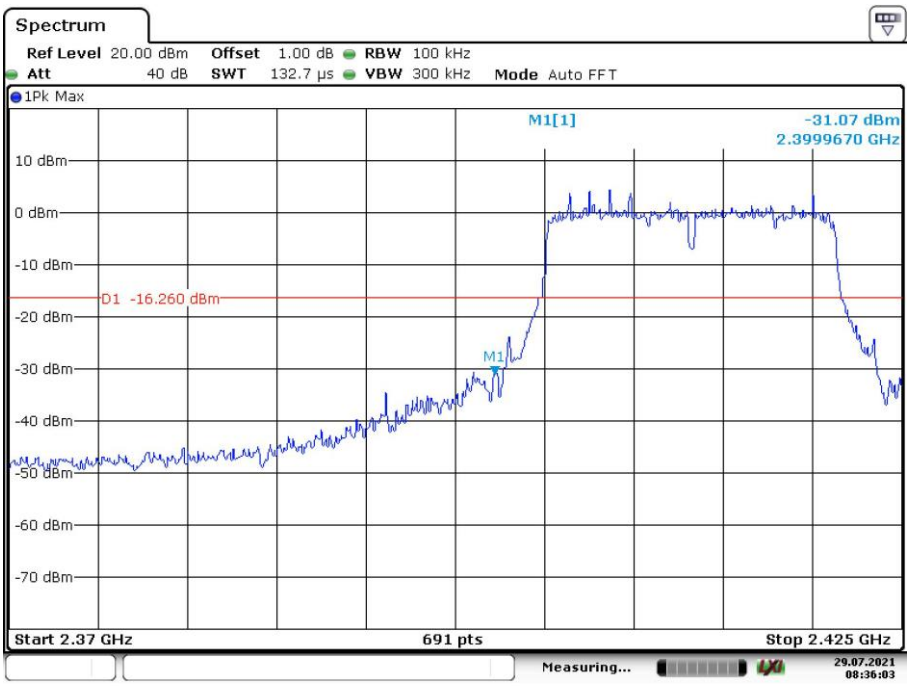
High Channel:



Date: 29.JUL.2021 08:23:54

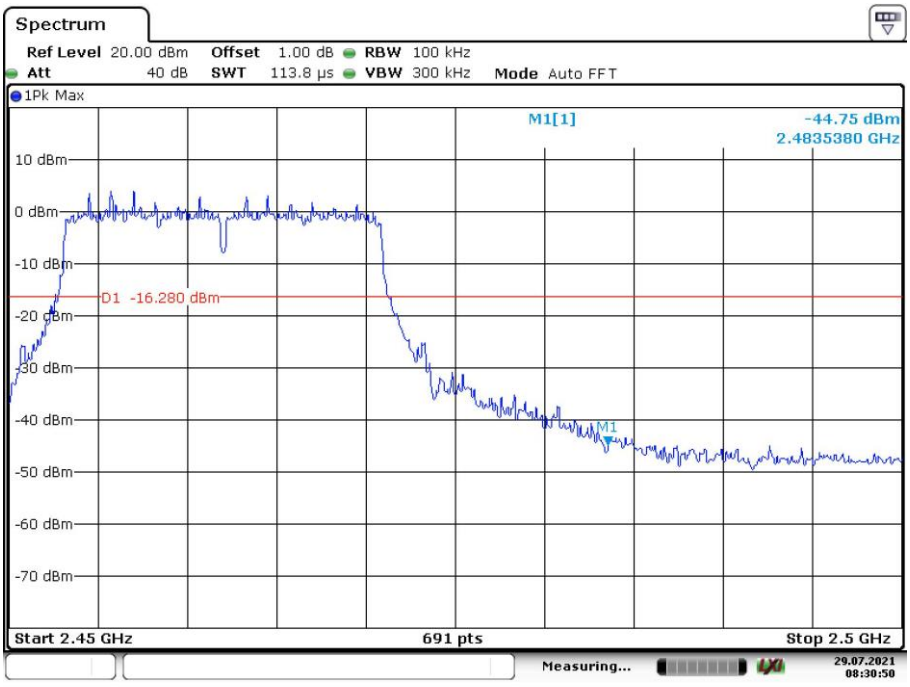
Wi-Fi 802.11 n(HT20) mode, Band Edge

Low Channel:



Date: 29.JUL.2021 08:36:03

High Channel:



Date: 29.JUL.2021 08:30:50

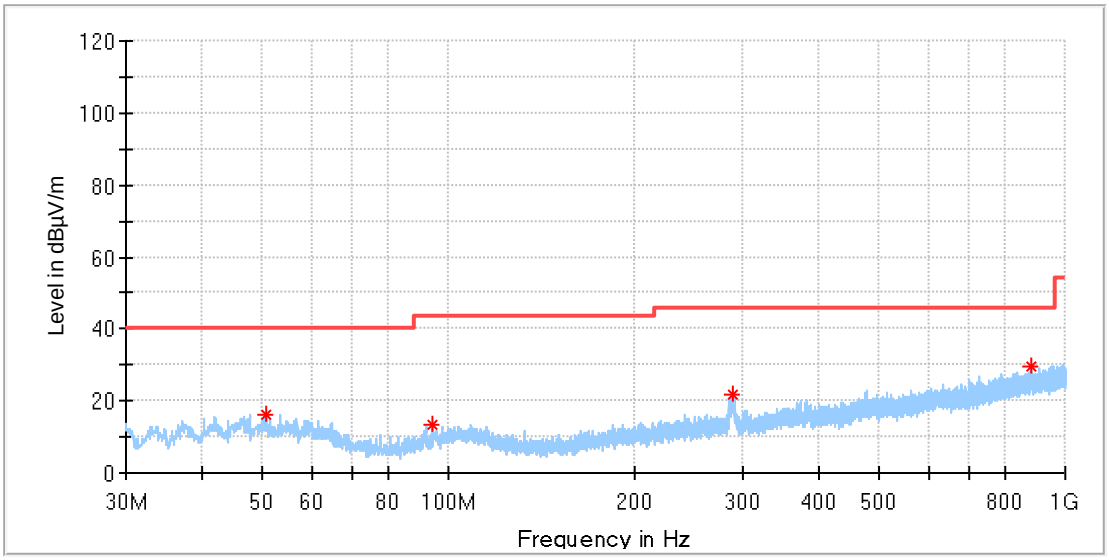
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.5: Test Results of Radiated Spurious Emissions

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

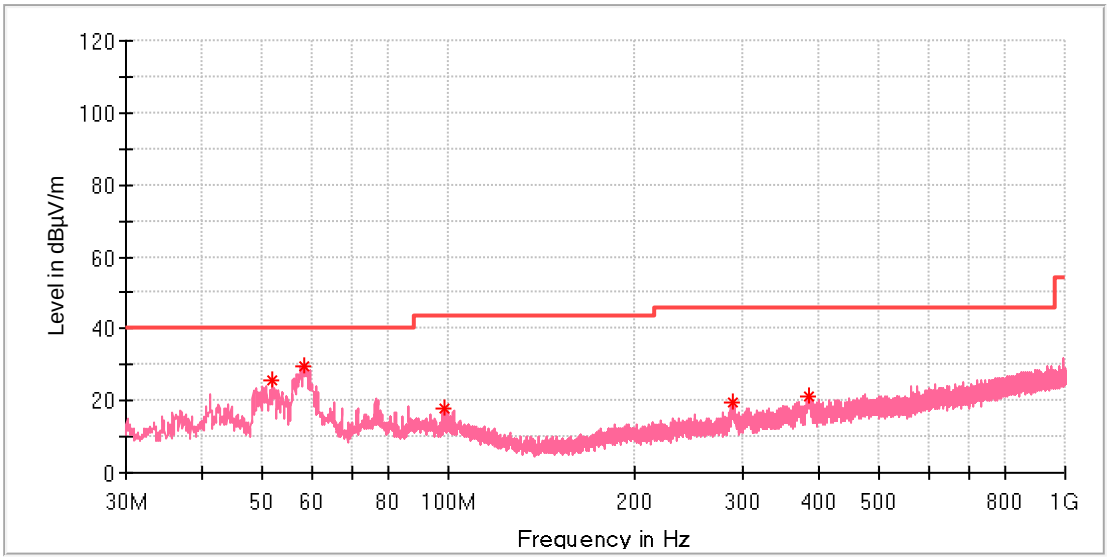


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.612500	16.24	40.00	23.76	100.0	H	146.0	-18.3
94.311000	13.65	43.50	29.85	100.0	H	76.0	-19.9
289.426500	22.01	46.00	23.99	100.0	H	242.0	-16.5
883.066500	29.52	46.00	16.48	100.0	H	252.0	-5.1

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

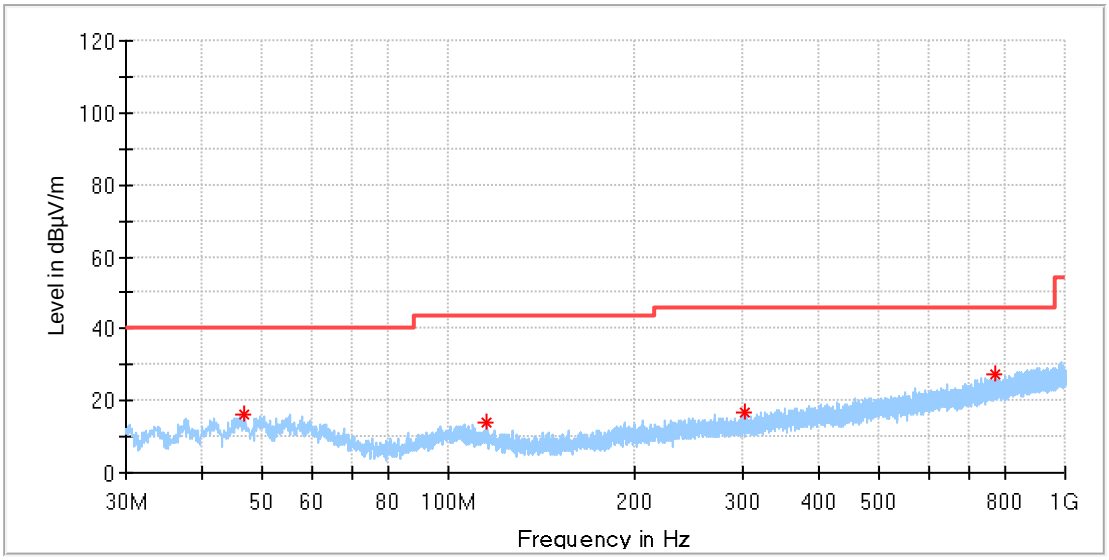


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.776500	25.40	40.00	14.60	100.0	V	143.0	-18.4
58.469500	29.42	40.00	10.58	100.0	V	0.0	-18.8
98.336500	17.82	43.50	25.68	100.0	V	33.0	-19.3
288.747500	19.36	46.00	26.64	100.0	V	199.0	-16.5
385.165500	21.22	46.00	24.78	100.0	V	7.0	-14.1

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

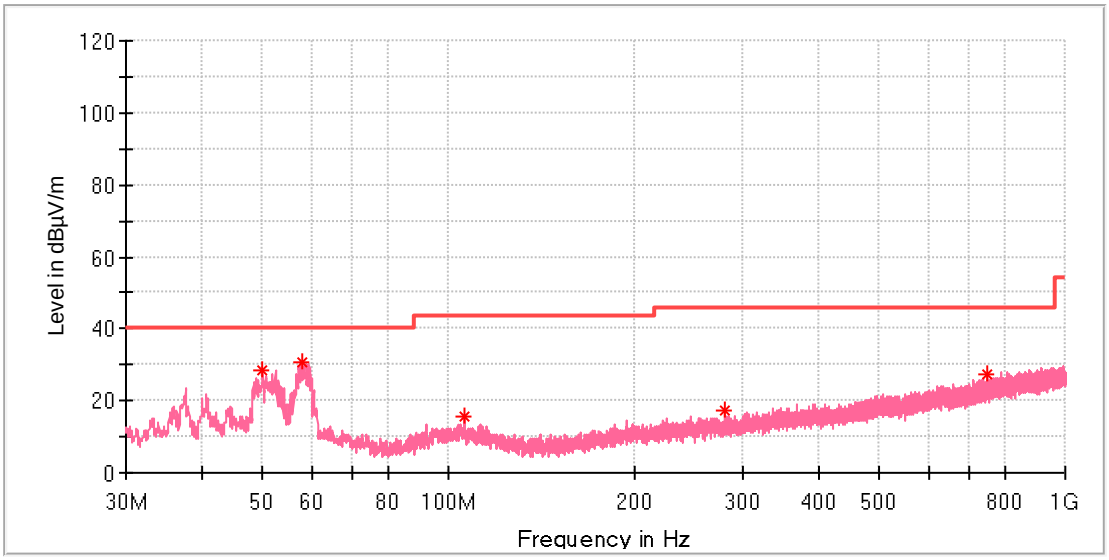


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.732500	16.02	40.00	23.98	100.0	H	272.0	-18.5
115.602500	13.74	43.50	29.76	100.0	H	134.0	-19.9
302.958000	16.85	46.00	29.15	100.0	H	208.0	-16.2
771.710500	27.31	46.00	18.69	100.0	H	142.0	-6.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

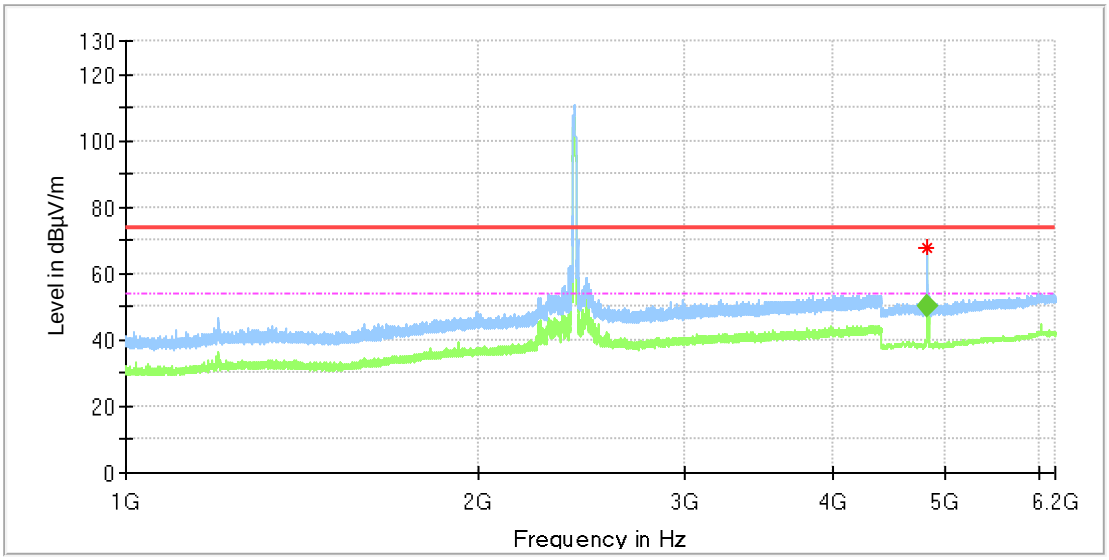
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.030500	28.39	40.00	11.61	100.0	V	62.0	-18.3
57.936000	30.77	40.00	9.23	100.0	V	117.0	-18.8
106.290500	15.57	43.50	27.93	100.0	V	313.0	-18.8
281.278500	17.13	46.00	28.87	100.0	V	265.0	-16.7
748.188000	27.35	46.00	18.65	100.0	V	243.0	-7.2

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

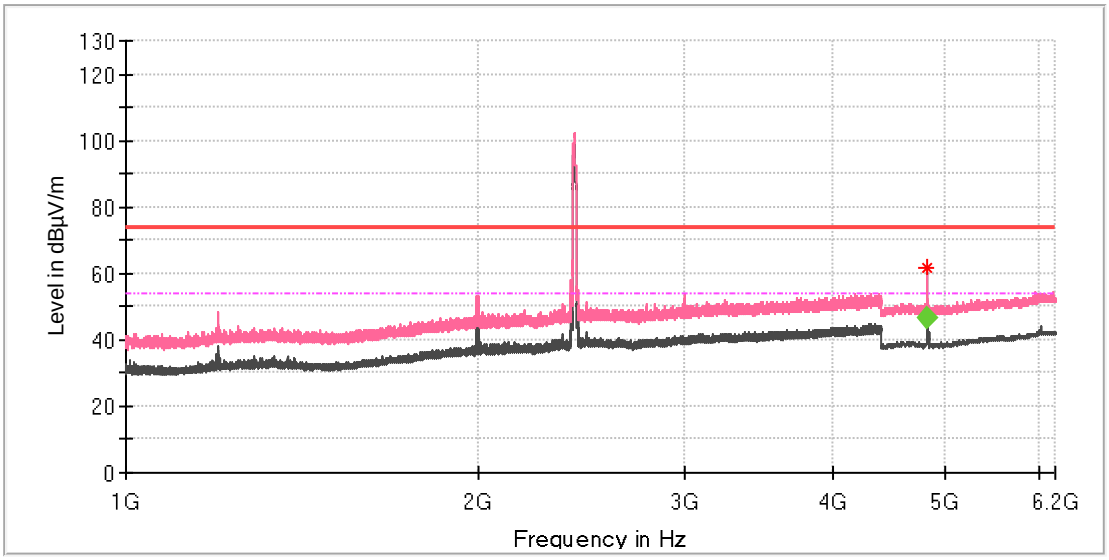
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	67.87	---	74.00	6.13	100.0	H	10.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.977778	50.22	54.00	3.78	105.0	H	5.0	11.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

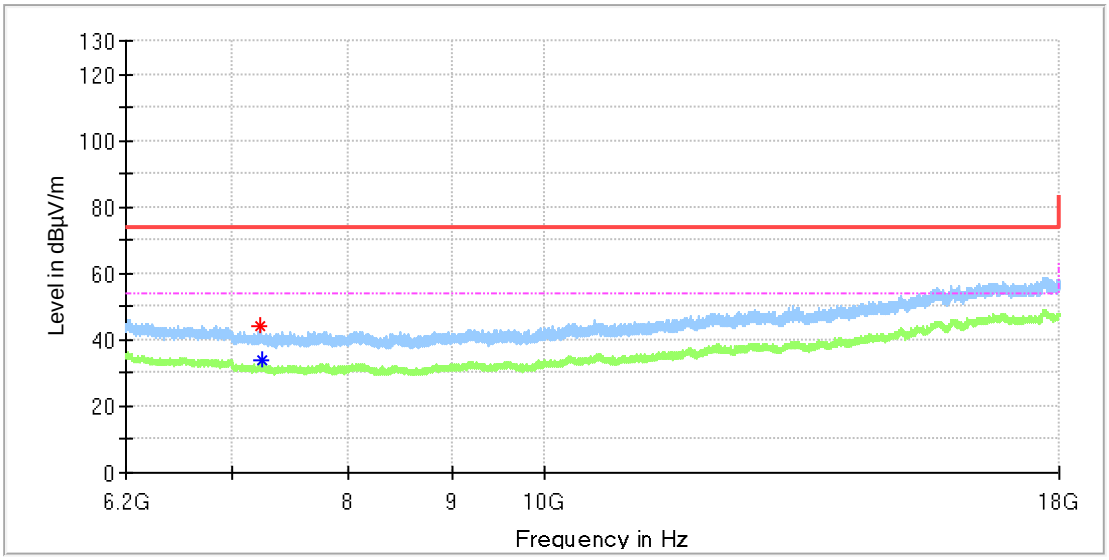
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	61.65	---	74.00	12.35	100.0	V	276.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.713889	46.73	54.00	7.27	100.0	V	271.0	11.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

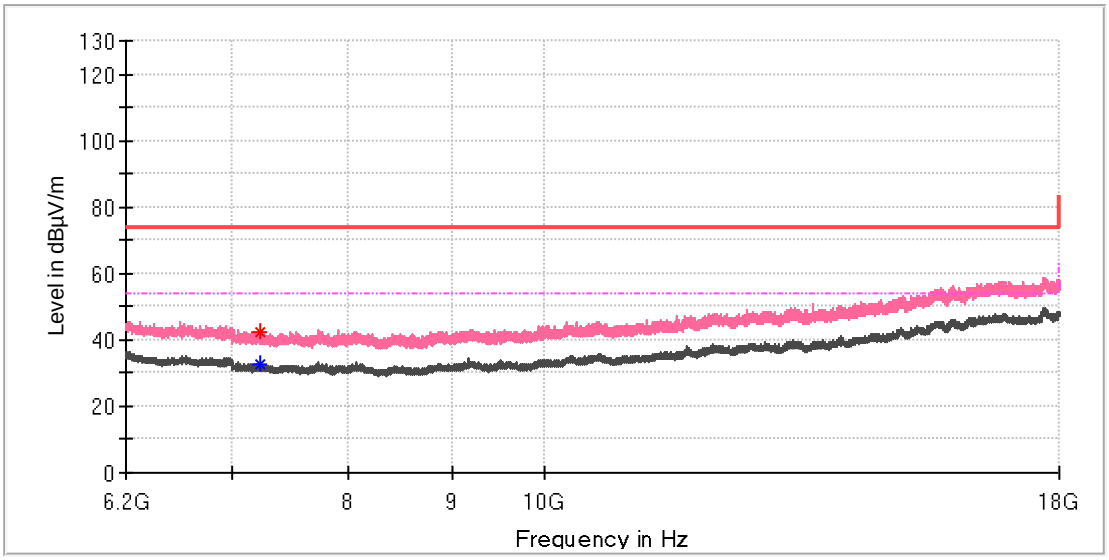


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7234.958333	43.87	---	74.00	30.13	100.0	H	264.0	8.6
7236.925000	---	33.96	54.00	20.04	100.0	H	249.0	8.6

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

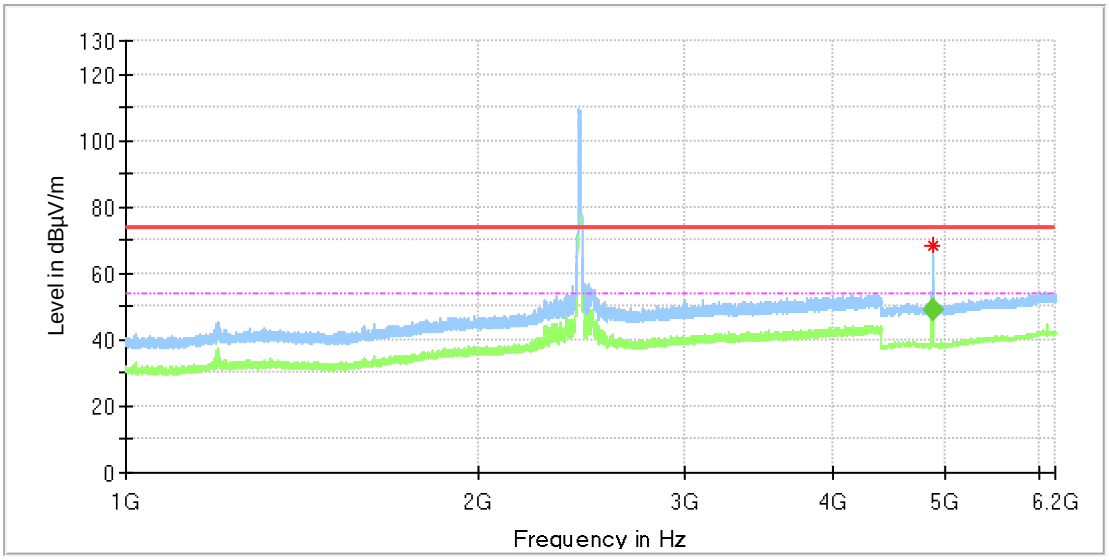


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7227.091667	---	32.87	54.00	21.13	100.0	V	225.0	8.7
7229.058333	42.20	---	74.00	31.80	100.0	V	184.0	8.6

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Mid channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

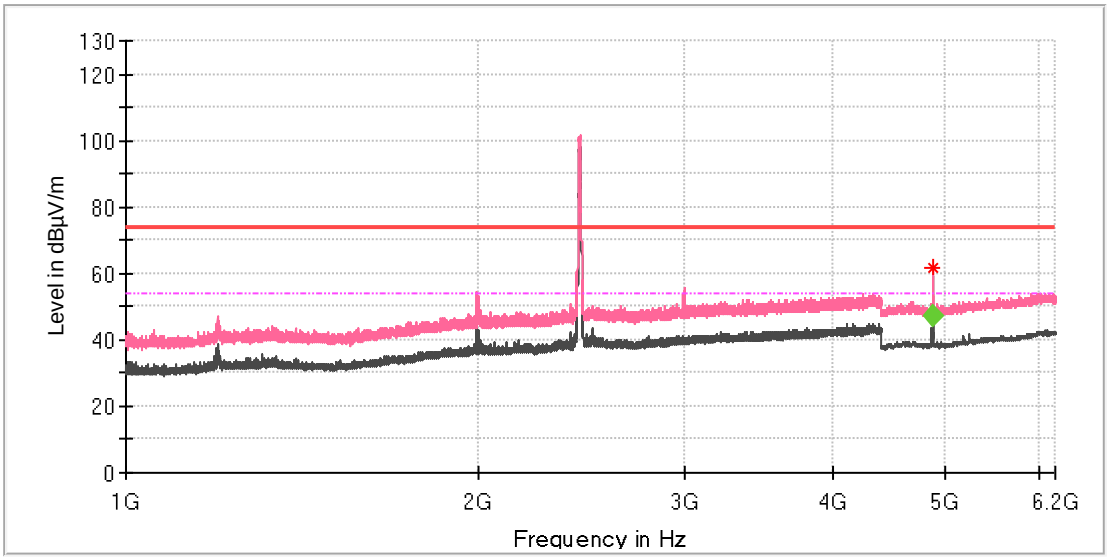
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	68.34	---	74.00	5.66	100.0	H	349.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.972222	49.03	54.00	4.97	105.0	H	347.0	11.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Mid channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

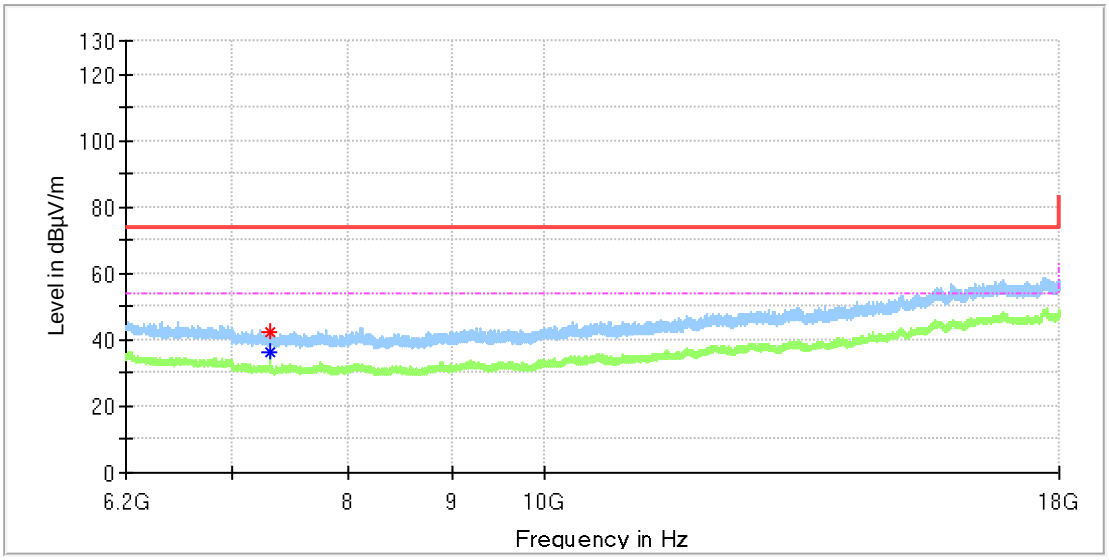
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	61.69	---	74.00	12.31	100.0	V	277.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4873.986111	47.03	54.00	6.97	100.0	V	272.0	11.8

EUT Information

EUT Name:	ColorFlux Light Strip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Mid channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

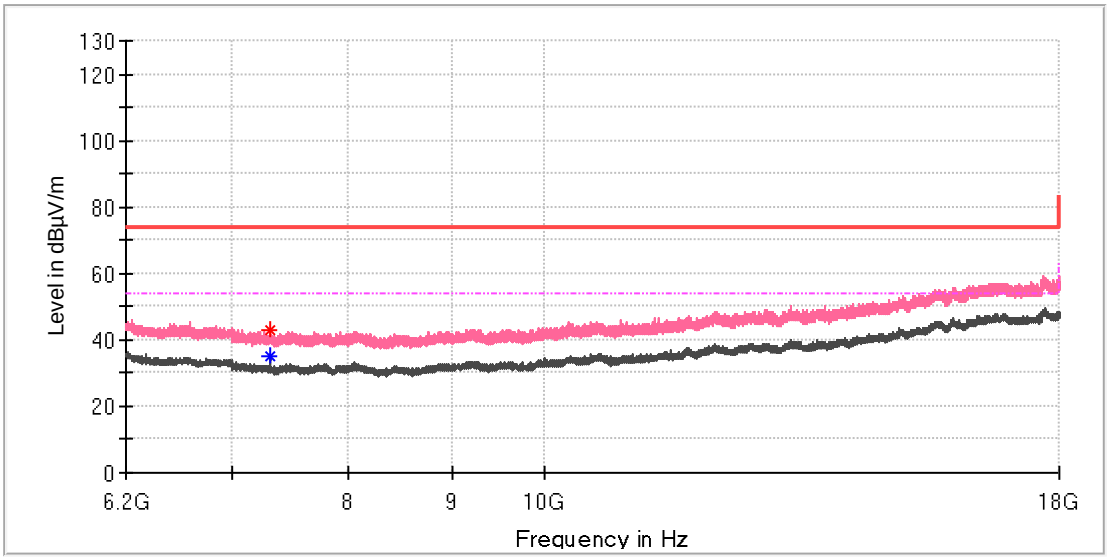


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7307.725000	42.53	---	74.00	31.47	100.0	H	332.0	8.3
7309.691667	---	36.03	54.00	17.97	100.0	H	332.0	8.2

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Mid channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

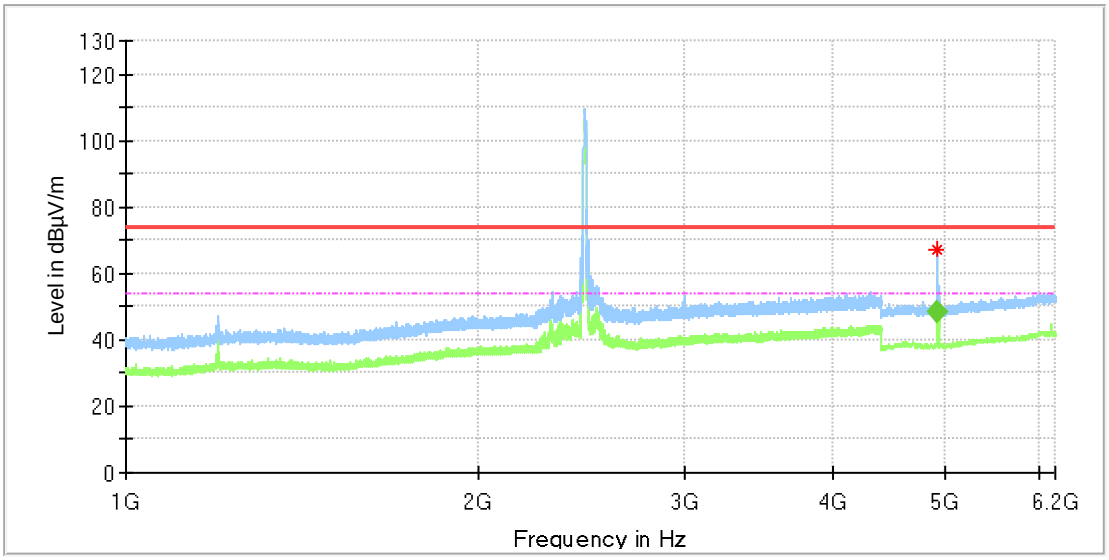


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7308.708333	---	35.08	54.00	18.92	100.0	V	151.0	8.2
7309.691667	43.04	---	74.00	30.96	100.0	V	151.0	8.2

EUT Information

EUT Name:	ColorFlux Light Strip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

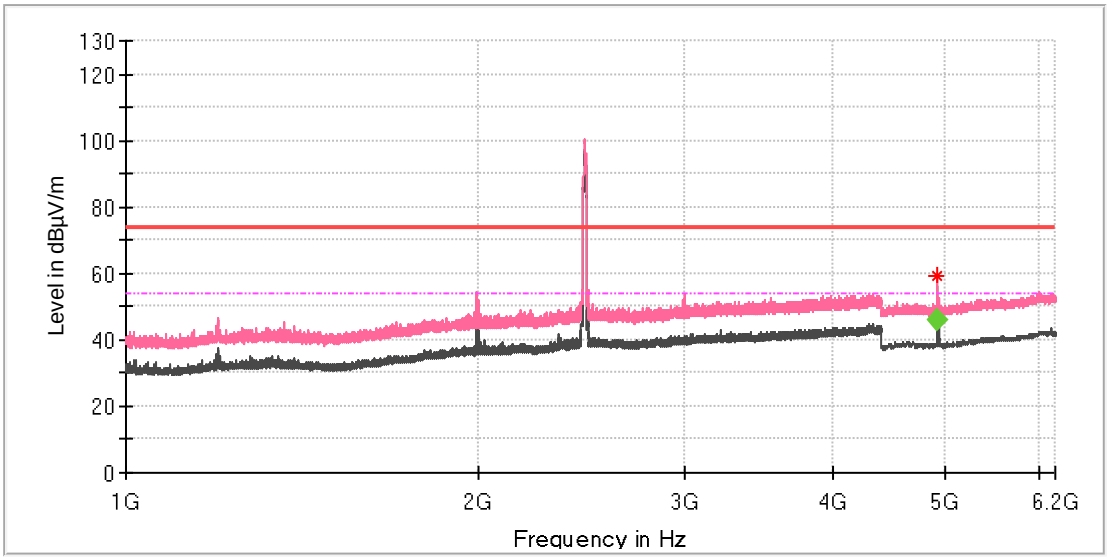
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	66.88	---	74.00	7.12	100.0	H	354.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.180556	48.15	54.00	5.85	105.0	H	349.0	11.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

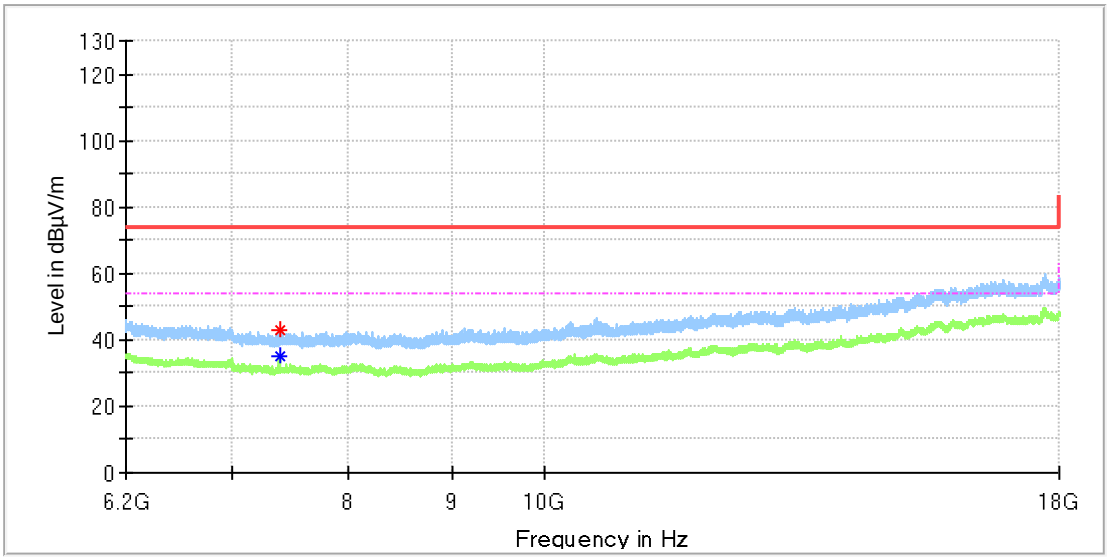
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	59.37	---	74.00	14.63	100.0	V	320.0	11.8

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.983333	45.89	54.00	8.11	100.0	V	315.0	11.8

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

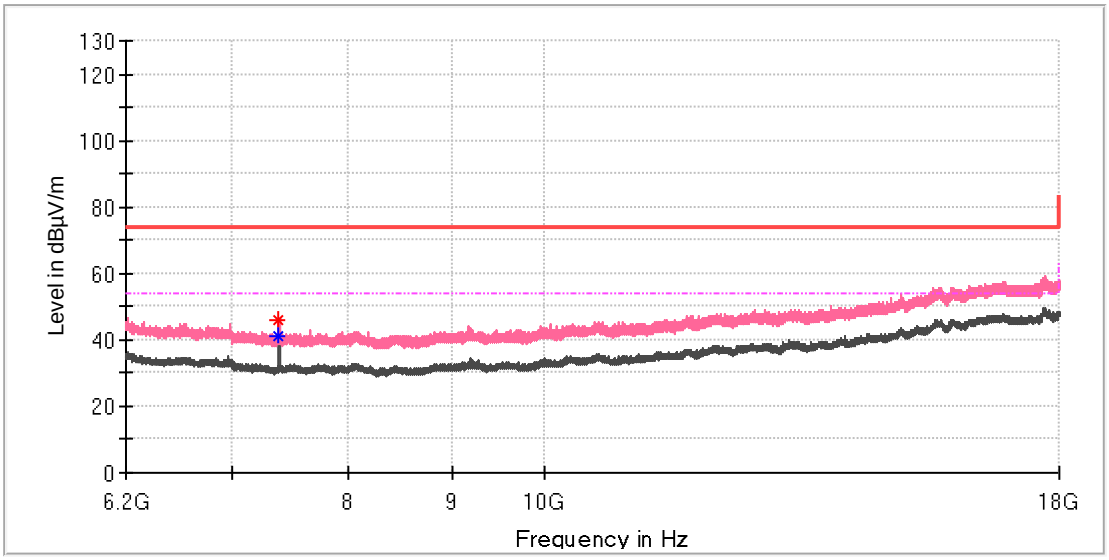


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7387.375000	43.22	---	74.00	30.78	100.0	H	295.0	8.2
7387.375000	---	35.02	54.00	18.98	100.0	H	295.0	8.2

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



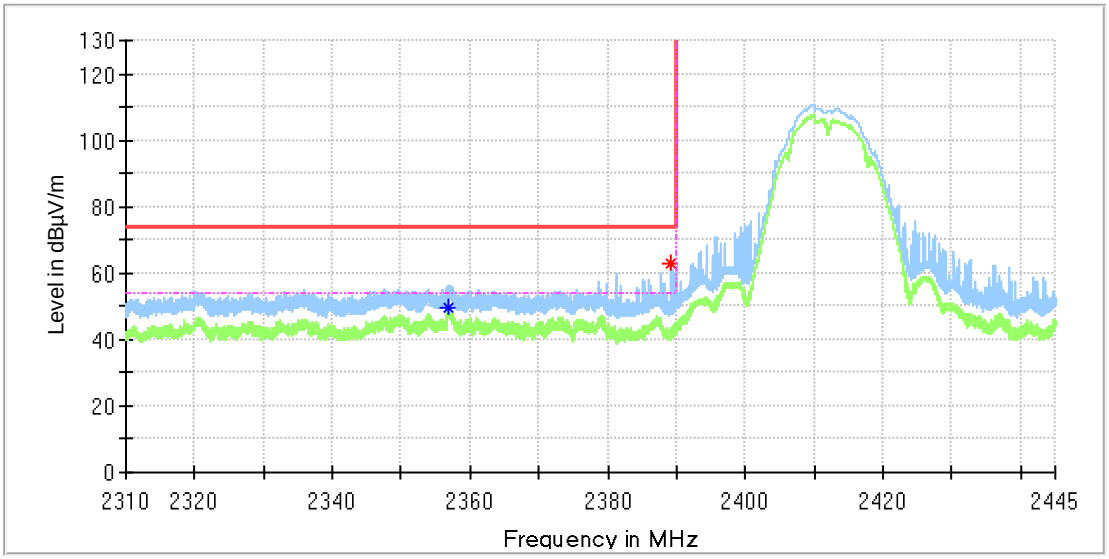
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7384.916667	46.25	---	74.00	27.75	100.0	V	181.0	8.2
7384.916667	---	41.12	54.00	12.88	100.0	V	181.0	8.2

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands
Wi-Fi 802.11 b mode, 1 Mbps

EUT Information

EUT Name:	ColorFlux Light Strip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

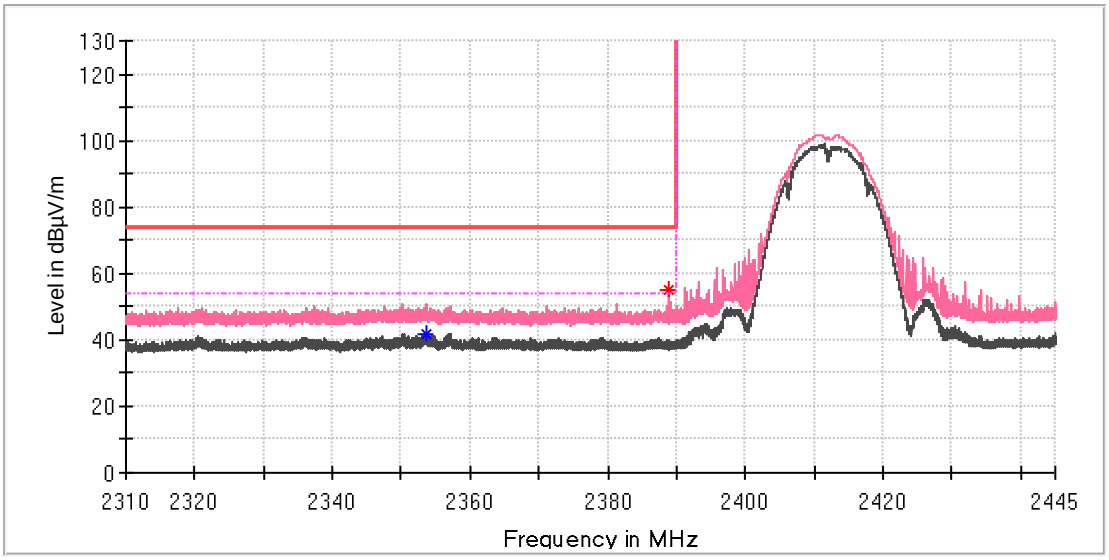


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2356.986750	---	49.53	54.00	4.47	100.0	H	148.0	6.9
2389.056000	62.91	---	74.00	11.09	100.0	H	148.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

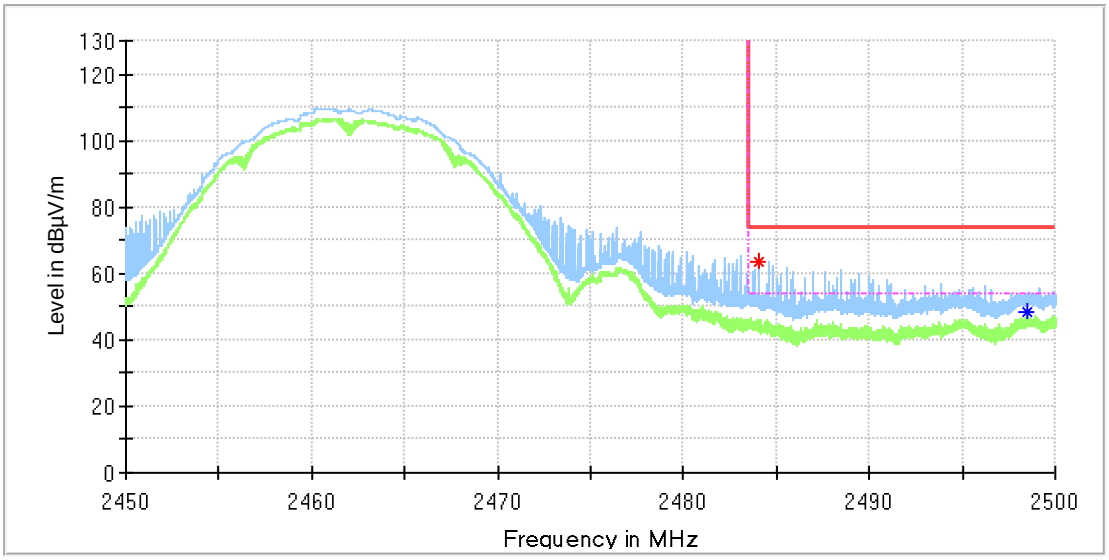


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2353.591500	---	42.00	54.00	12.00	100.0	V	218.0	6.9
2388.779250	55.19	---	74.00	18.81	100.0	V	281.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

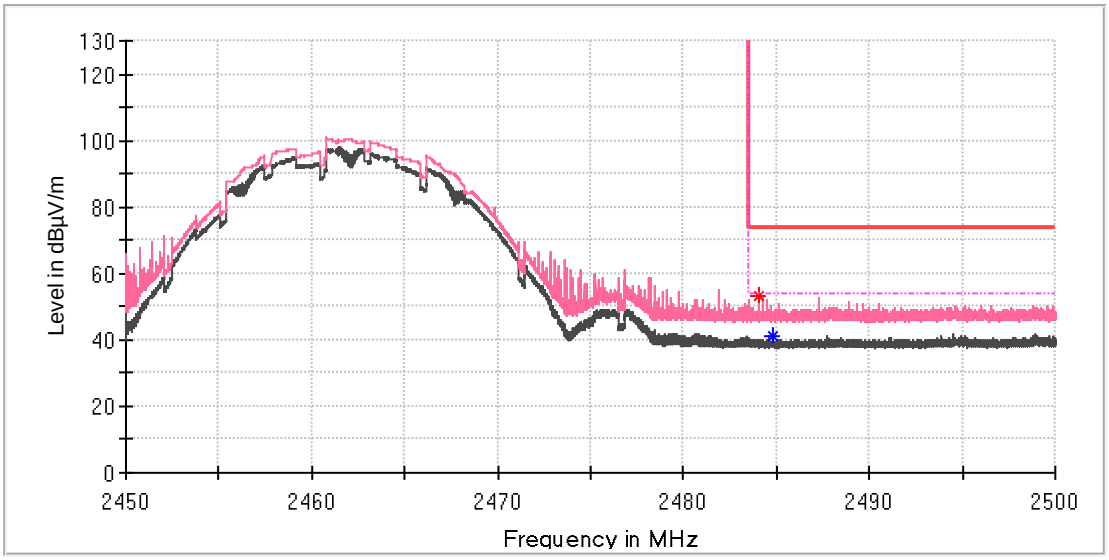


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.052500	63.48	---	74.00	10.52	100.0	H	312.0	7.4
2498.515000	---	48.12	54.00	5.88	100.0	H	322.0	7.4

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11b_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



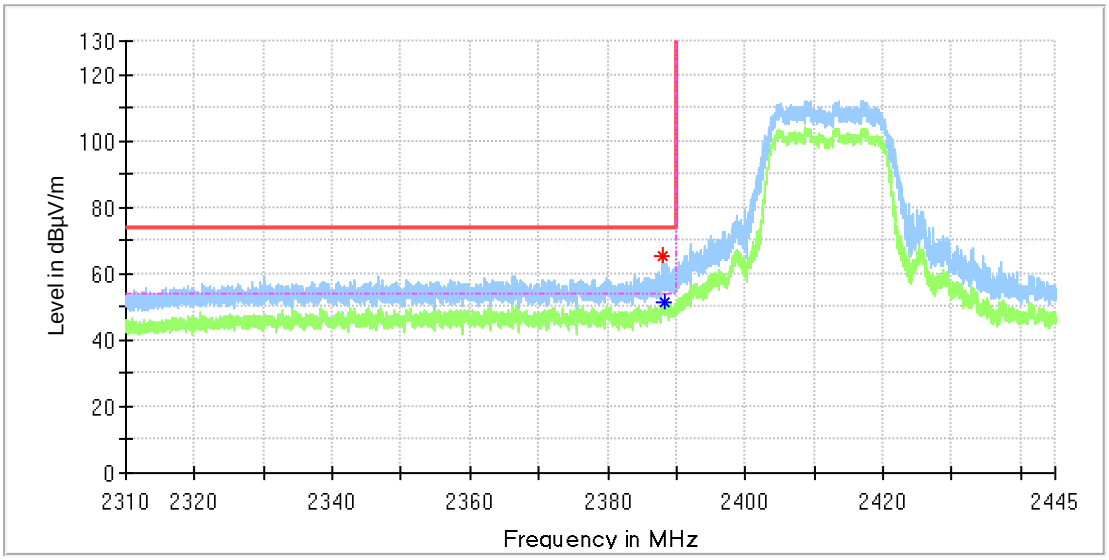
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.007500	53.25	---	74.00	20.75	100.0	V	221.0	7.4
2484.807500	---	40.97	54.00	13.03	100.0	V	258.0	7.4

Wi-Fi 802.11 g mode, 6 Mbps

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11g_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

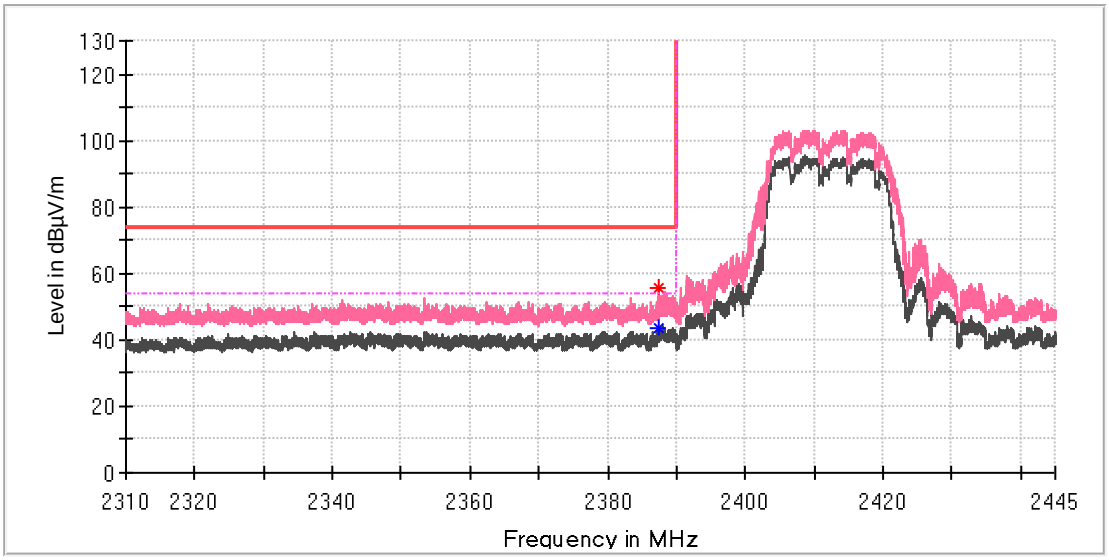


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.982750	65.05	---	74.00	8.95	100.0	H	317.0	7.0
2388.360750	---	50.50	54.00	3.50	100.0	H	317.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11g_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

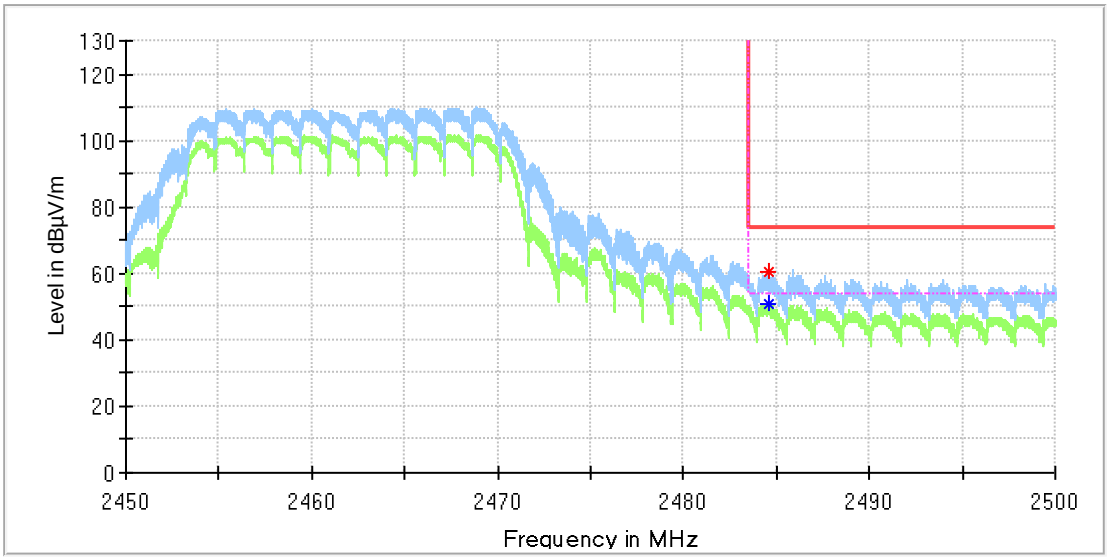


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.314500	55.33	---	74.00	18.67	100.0	V	176.0	7.0
2387.510250	---	43.57	54.00	10.43	100.0	V	290.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11g_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

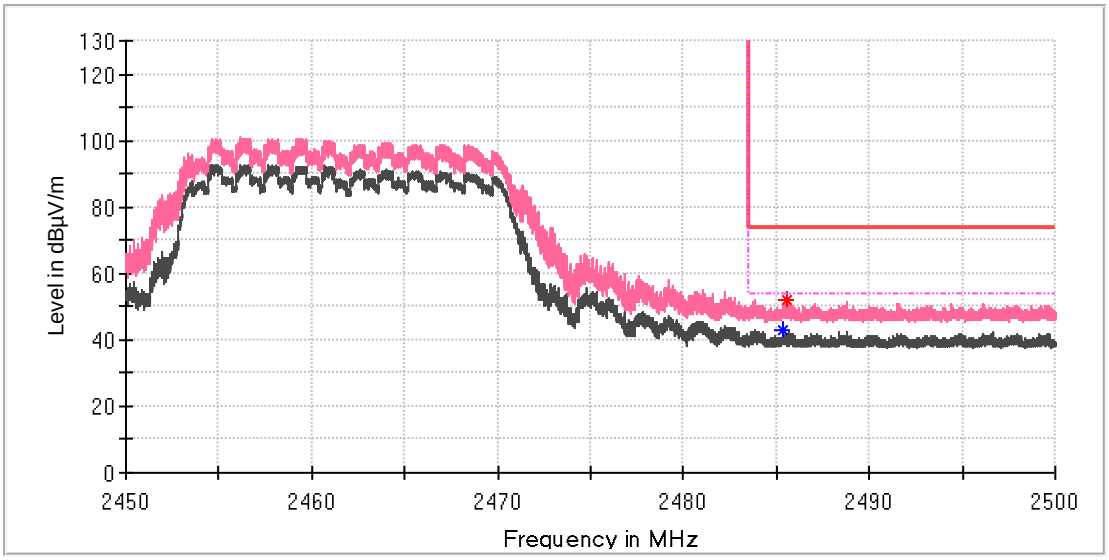


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.537500	---	50.58	54.00	3.42	100.0	H	0.0	7.4
2484.550000	60.62	---	74.00	13.38	100.0	H	319.0	7.4

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11g_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



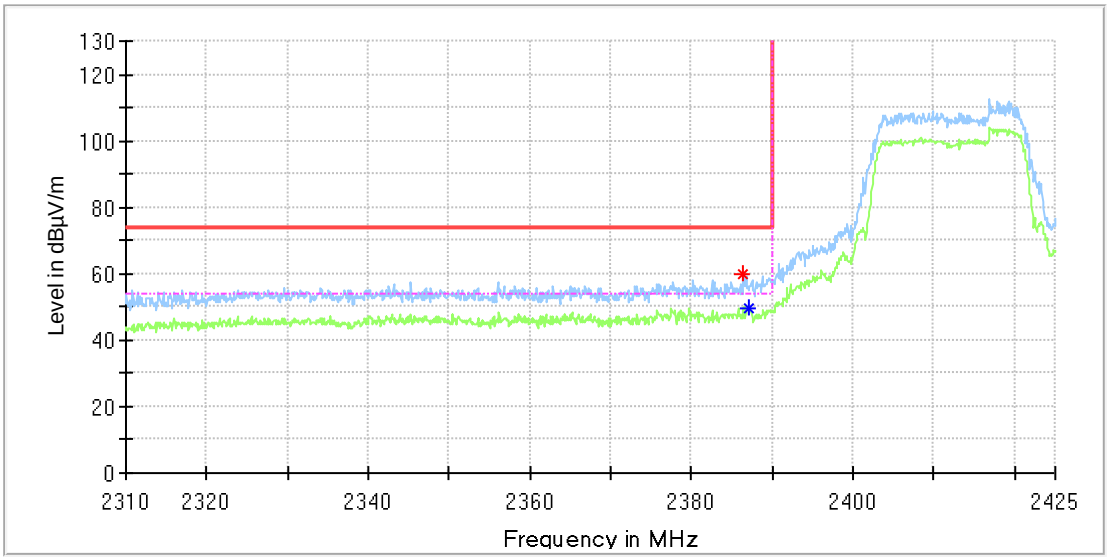
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.347500	---	43.23	54.00	10.77	100.0	V	244.0	7.4
2485.520000	51.98	---	74.00	22.02	100.0	V	244.0	7.4

Wi-Fi 802.11 n(HT20) mode, MCS0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11n_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

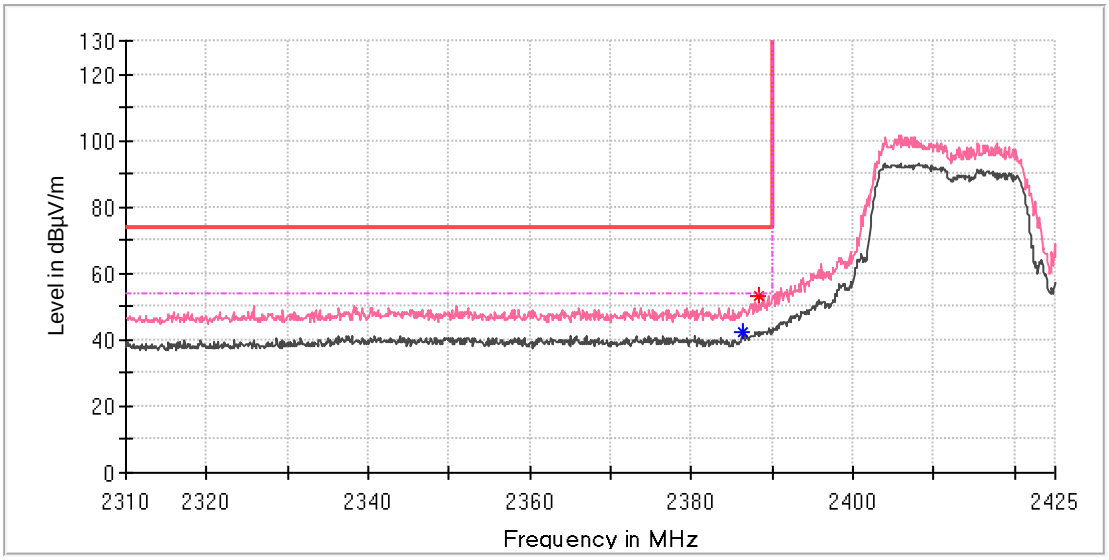


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.400000	59.75	---	74.00	14.25	100.0	H	298.0	7.0
2387.000000	---	49.73	54.00	4.27	100.0	H	298.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11n_Low channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

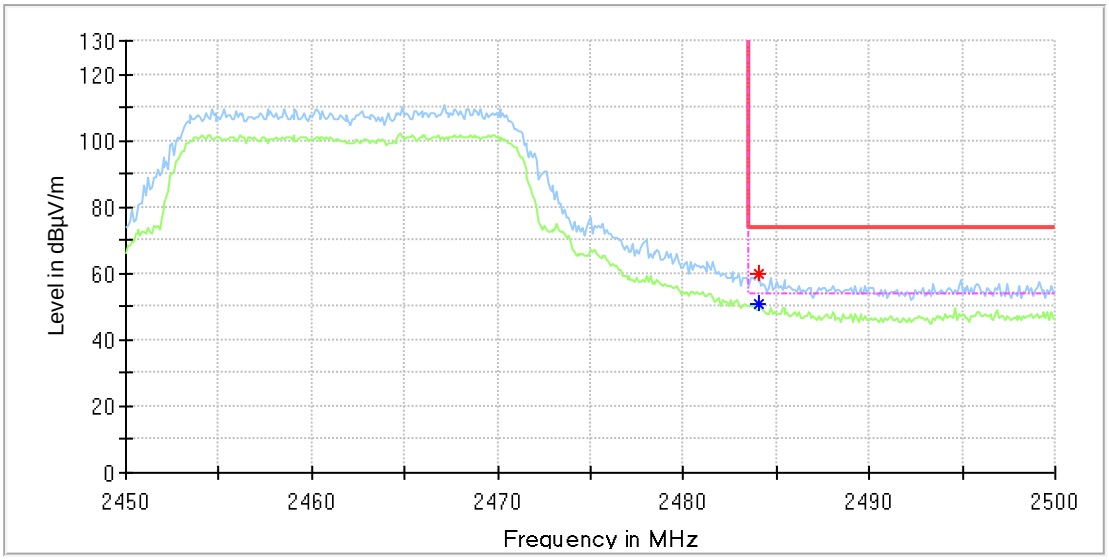


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.400000	---	42.45	54.00	11.55	100.0	V	252.0	7.0
2388.300000	53.37	---	74.00	20.63	100.0	V	252.0	7.0

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11n_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

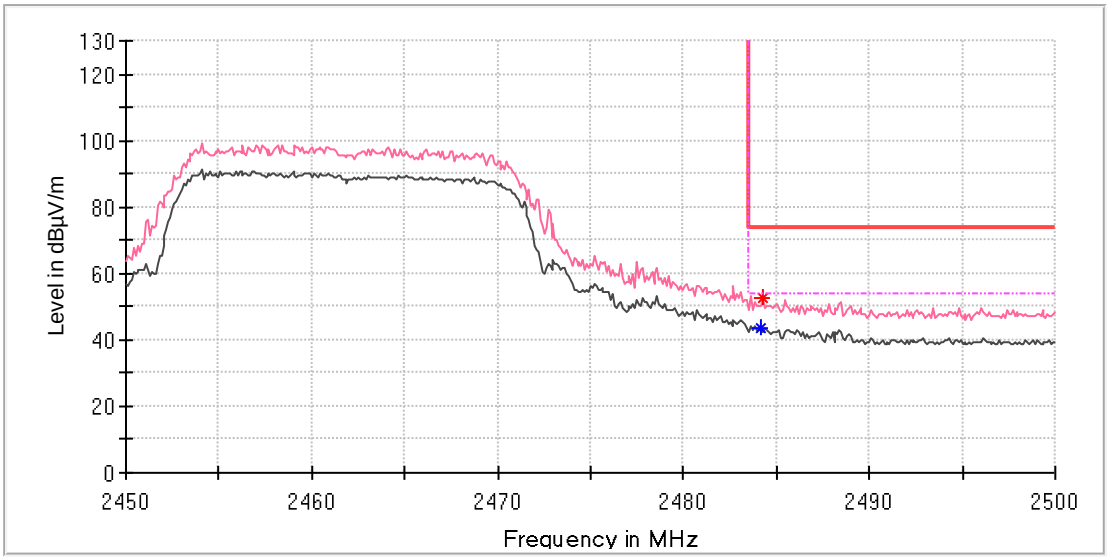


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.100000	59.79	---	74.00	14.21	100.0	H	335.0	7.4
2484.100000	---	50.74	54.00	3.26	100.0	H	335.0	7.4

EUT Information

EUT Name:	ColorFluxLightStrip
Model:	LS3
Test Mode:	WIFI 2.4G_11n_High channel
Test Voltage::	AC 120V, 60Hz
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



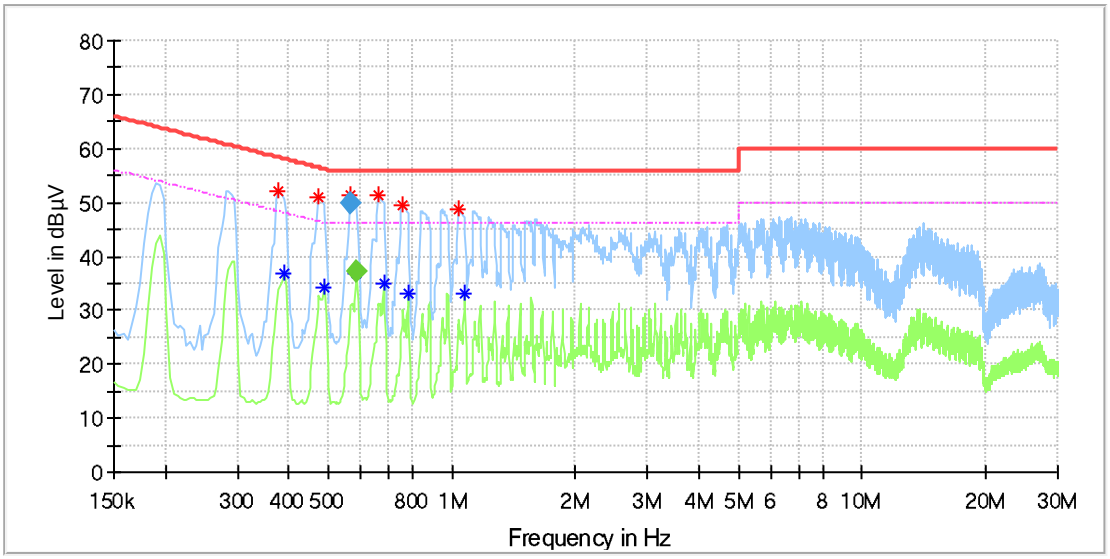
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.200000	---	43.81	54.00	10.19	100.0	V	217.0	7.4
2484.300000	52.48	---	74.00	21.52	100.0	V	245.0	7.4

Appendix B.7: Test Results of Conducted Emission

EUT Information

EUT Name:	ColorFlux Light Strip
Order No:	168326002 80
Model:	LS3
Test Mode:	WiFi link + Lighting(Max brightness)
Test Voltage:	AC 120V/60Hz
Test By:	Kevin Zhou
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

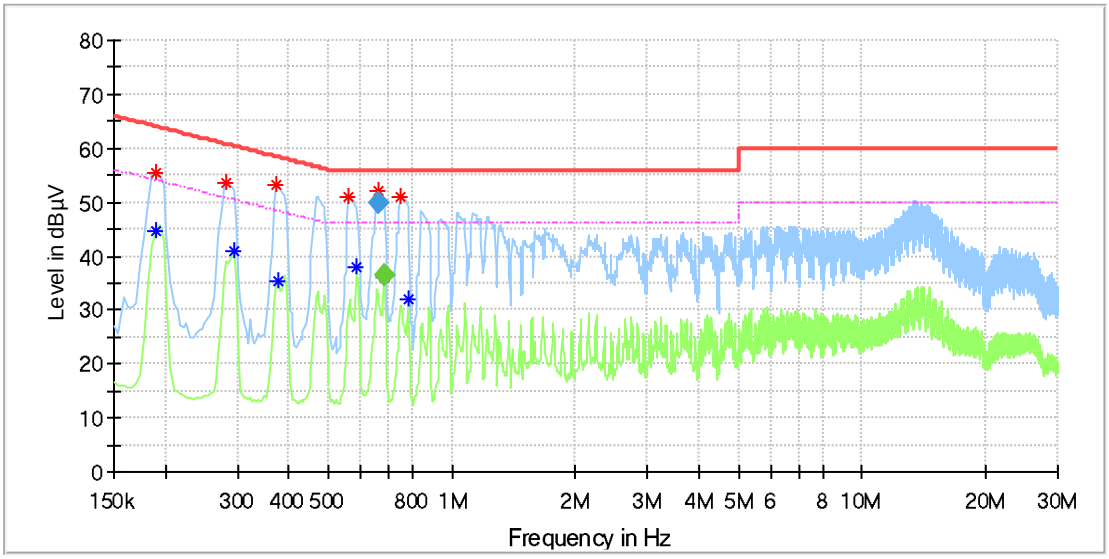
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.378000	51.97	---	58.32	6.35	L1	9.7
0.390000	---	36.93	48.06	11.14	L1	9.7
0.470000	50.99	---	56.51	5.52	L1	9.7
0.486000	---	34.39	46.24	11.85	L1	9.7
0.566500	51.19	---	56.00	4.81	L1	9.7
0.586500	---	36.85	46.00	9.15	L1	9.7
0.660000	51.41	---	56.00	4.59	L1	9.7
0.684000	---	34.80	46.00	11.20	L1	9.7
0.760000	49.50	---	56.00	6.50	L1	9.7
0.784000	---	33.18	46.00	12.82	L1	9.7
1.036000	48.91	---	56.00	7.09	L1	9.7
1.076000	---	33.03	46.00	12.97	L1	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.566500	49.88	---	56.00	6.12	1000.0	9.000	L1	9.7
0.586500	---	37.15	46.00	8.85	1000.0	9.000	L1	9.7

EUT Information

EUT Name:	ColorFluxLightStrip
Order No:	168326002 80
Model:	LS3
Test Mode:	WiFi link + Lighting(Max brightness)
Test Voltage:	AC 120V/60Hz
Test By:	Kevin Zhou
Review By:	Gary Chen
Remark:	SR1



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.190000	---	44.67	54.04	9.37	N	9.6
0.190000	55.57	---	64.04	8.46	N	9.6
0.282000	53.70	---	60.76	7.06	N	9.6
0.294000	---	40.85	50.41	9.56	N	9.6
0.374000	53.03	---	58.41	5.39	N	9.7
0.378000	---	35.50	48.32	12.82	N	9.7
0.560000	50.93	---	56.00	5.07	N	9.7
0.588000	---	38.09	46.00	7.91	N	9.7
0.658500	52.24	---	56.00	3.76	N	9.7
0.686500	---	35.96	46.00	10.04	N	9.7
0.748000	51.16	---	56.00	4.84	N	9.7
0.784000	---	31.86	46.00	14.14	N	9.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.658500	49.96	---	56.00	6.04	1000.0	9.000	N	9.7
0.686500	---	36.39	46.00	9.61	1000.0	9.000	N	9.7