

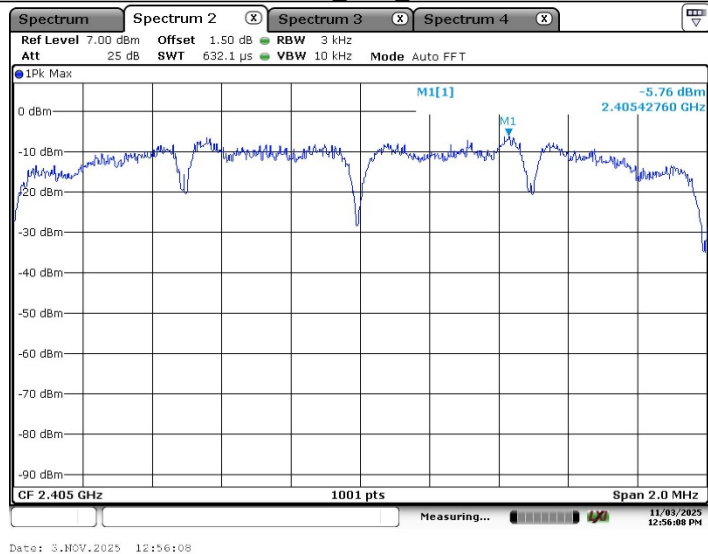
Appendix B: Test Results of Bluetooth Low Energy

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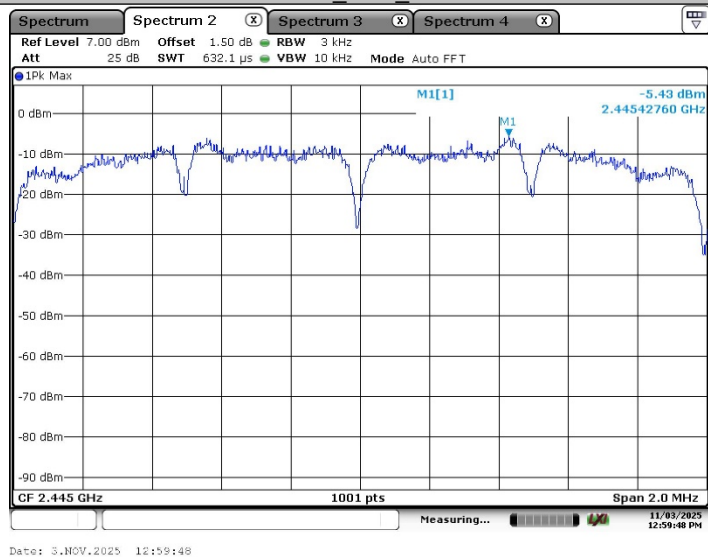
Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Thread	Ant1	2405	-5.76	≤8.00	PASS
		2445	-5.43	≤8.00	PASS
		2480	-5.69	≤8.00	PASS

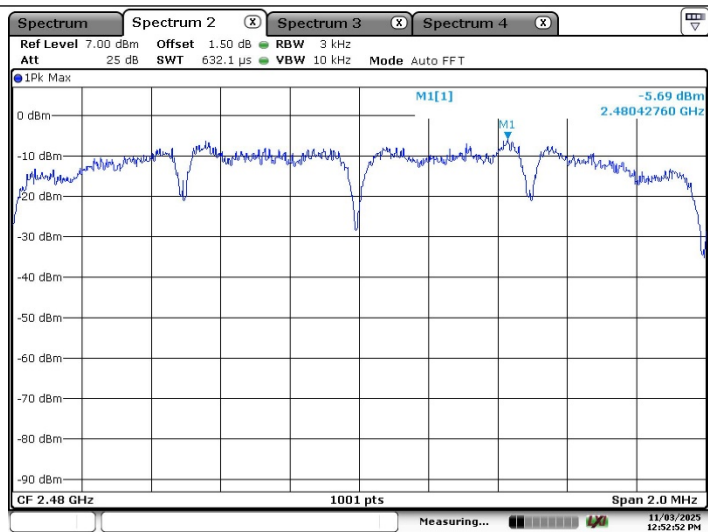
Thread_Ant1_2405



Thread_Ant1_2445



Thread_Ant1_2480



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Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread	Ant1	2405	1.750	2404.125	2405.875	0.5	PASS
		2445	1.750	2444.125	2445.875	0.5	PASS
		2480	1.700	2479.125	2480.825	0.5	PASS

Minimum Emission Bandwidth 6 dB (2405 MHz; 20.000 dBm; 5 MHz)

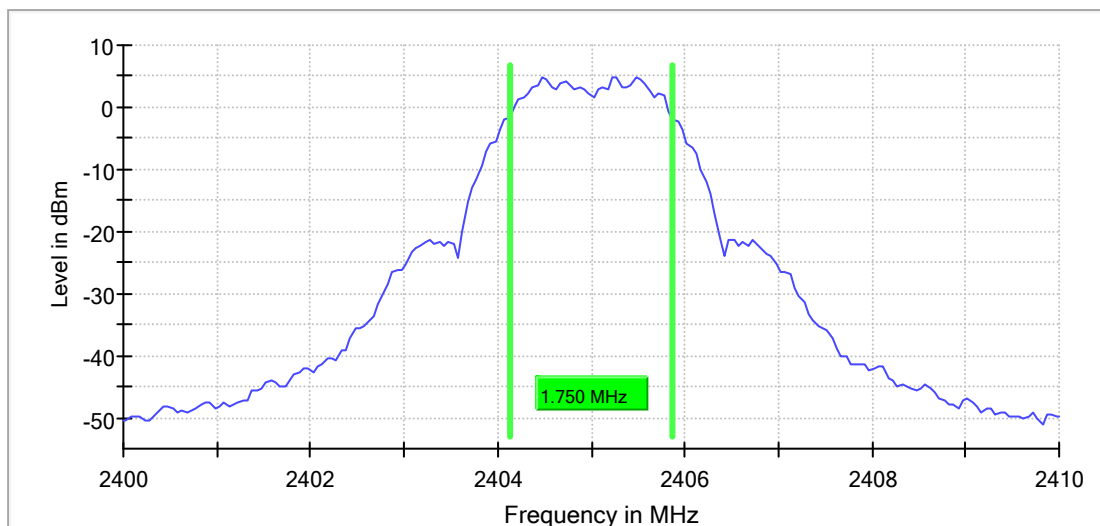
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	1.750000	0.500000	---	2404.125000	2405.875000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2405.000000	4.9	PASS

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.41000 GHz	2.41000 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
Sweeptime	37.969 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	21 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2445 MHz; 20.000 dBm; 5 MHz)

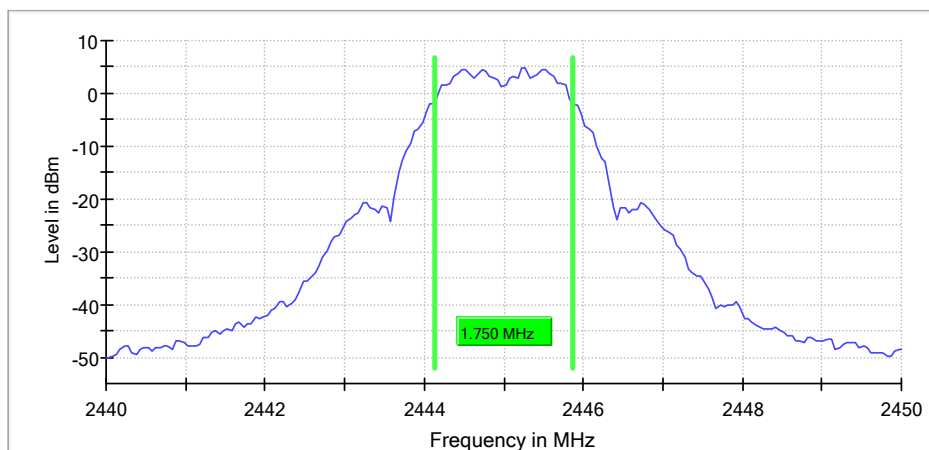
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	1.750000	0.500000	---	2444.125000	2445.875000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2445.000000	4.8	PASS

6 dB Bandwidth



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
SweepTime	37.969 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	22 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.50 dB

Minimum Emission Bandwidth 6 dB (2480 MHz; 20.000 dBm; 5 MHz)

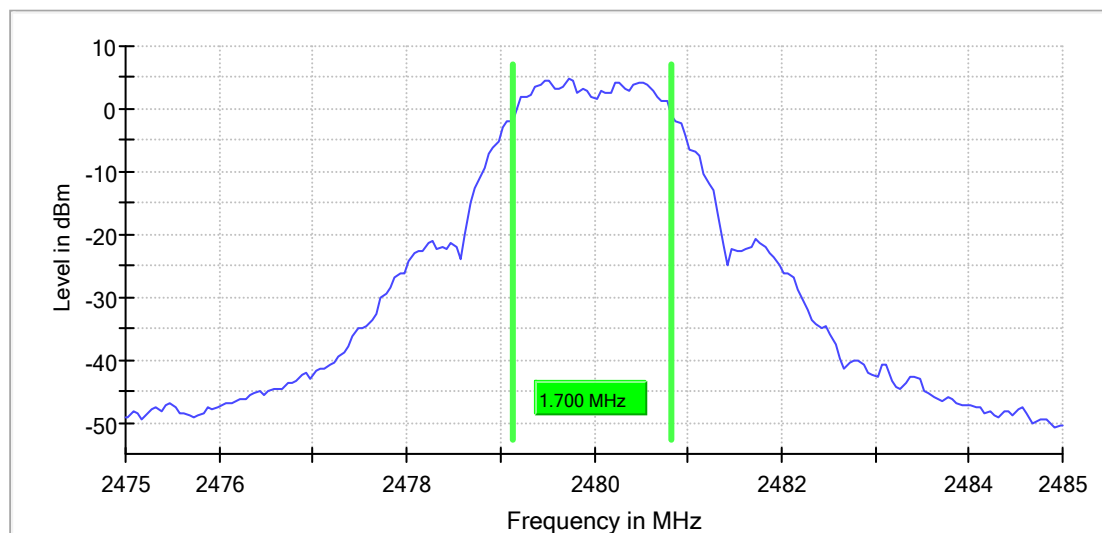
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.700000	0.500000	---	2479.125000	2480.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	5.0	PASS

6 dB Bandwidth



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.48500 GHz	2.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
SweepTime	37.969 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.44 dB	0.50 dB

Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread	Ant1	2405	2.250	2403.8625	2406.1125	---	---
		2445	2.275	2443.8625	2446.1375	---	---
		2480	2.275	2478.8625	2481.1375	---	---

Occupied Channel Bandwidth 99% (2405 MHz; 20.000 dBm; 5 MHz)

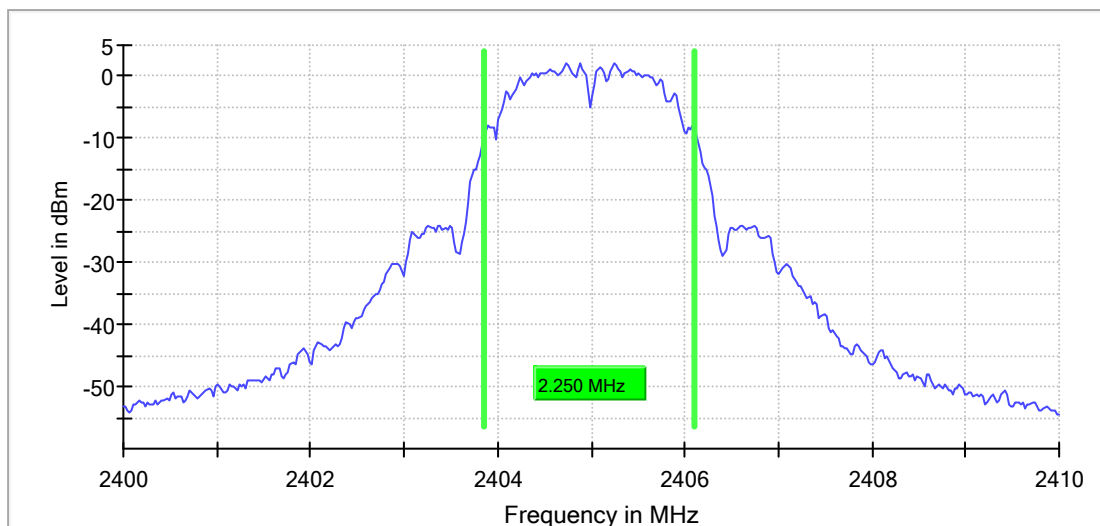
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	2.250000	---	---	2403.862500	2406.112500

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

DUT Frequency (MHz)	Result
2405.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.41000 GHz	2.41000 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
Sweeptime	75.781 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	21 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.30 dB

Occupied Channel Bandwidth 99% (2445 MHz; 20.000 dBm; 5 MHz)

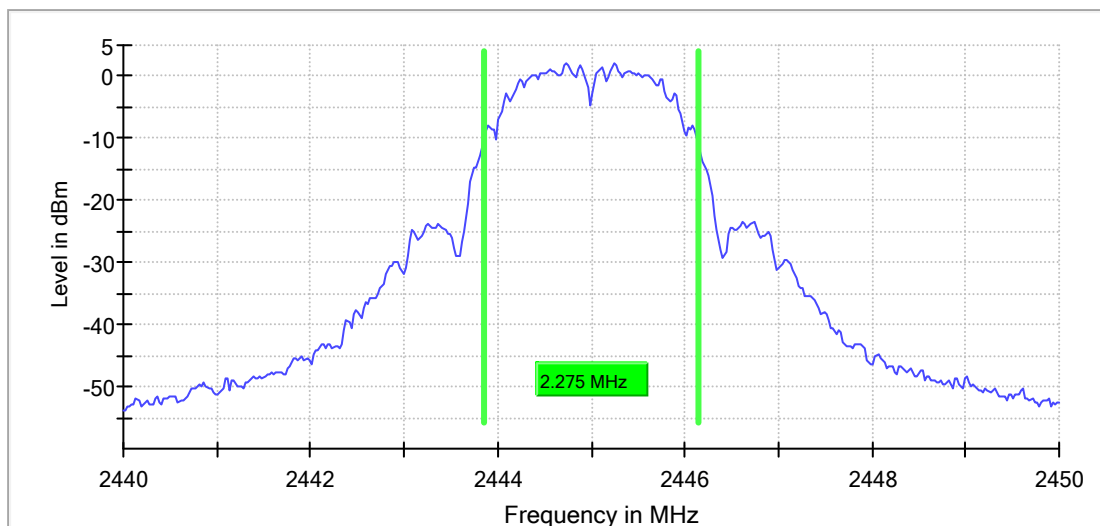
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	2.275000	---	---	2443.862500	2446.137500

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

DUT Frequency (MHz)	Result
2445.000000	PASS

99 % Bandwidth



Bandwidth

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
Sweptime	75.781 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	22 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

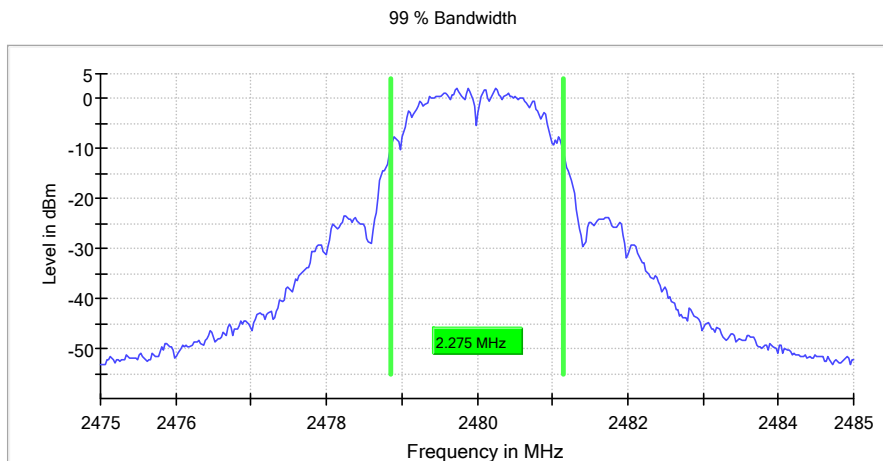
Occupied Channel Bandwidth 99% (2480 MHz; 20.000 dBm; 5 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.275000	---	---	2478.862500	2481.137500

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

DUT Frequency (MHz)	Result
2480.000000	PASS



Bandwidth

Measurement

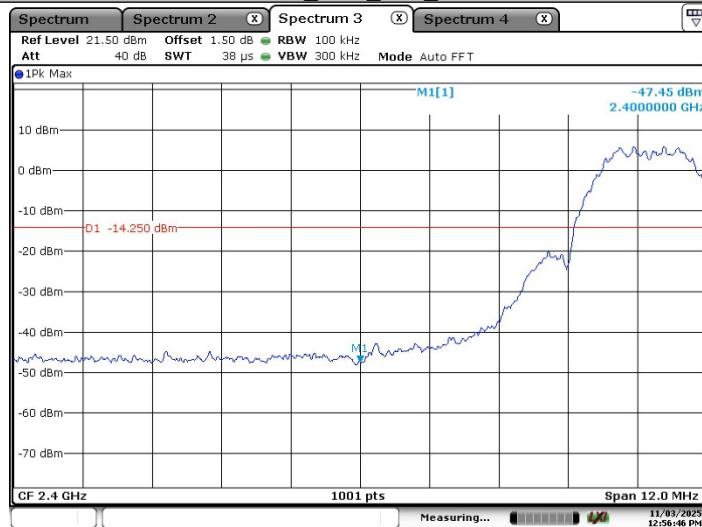
Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.48500 GHz	2.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
SweepTime	75.781 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	17 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.30 dB

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

Band Edge

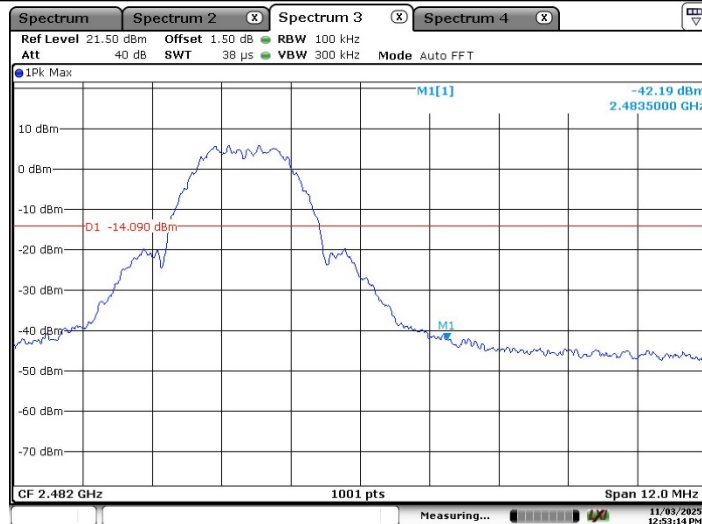
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Thread	Ant1	Low	2405	-14.25	-47.45	≤-34.25	PASS
		High	2480	-14.09	-42.19	≤-34.09	PASS

Thread_Ant1_Low_2405



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Thread_Ant1_High_2480

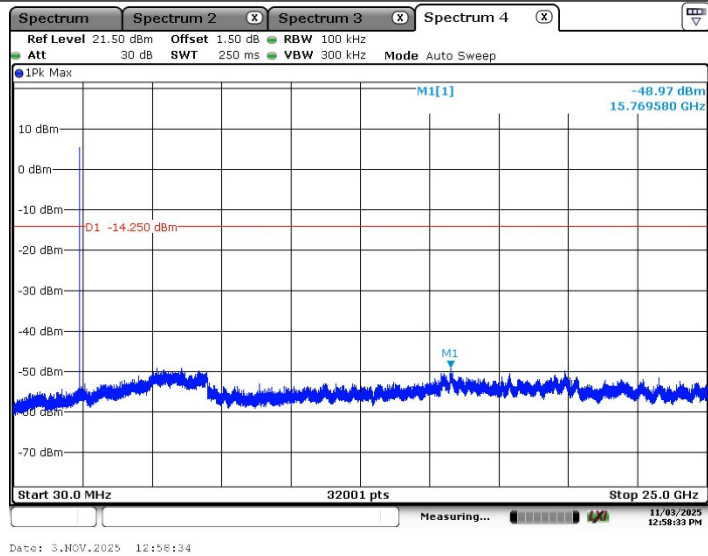


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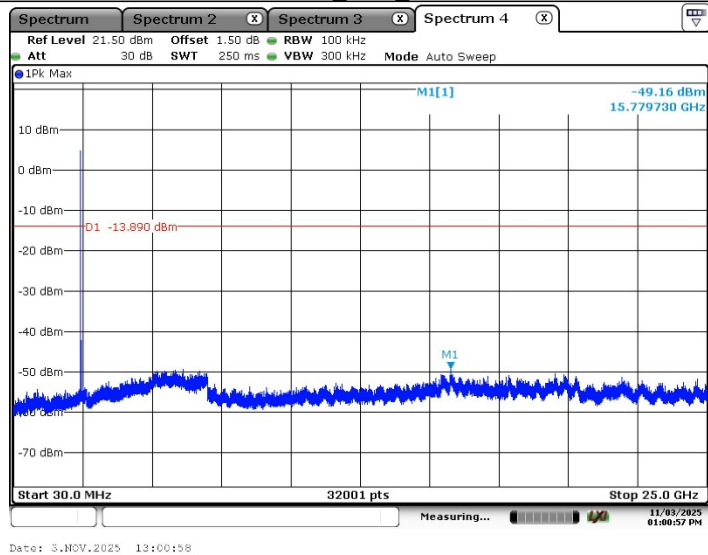
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Thread	Ant1	2405	30~25000	15.77	-48.97	---	PASS
		2440	30~25000	15.78	-49.16	---	PASS
		2480	30~25000	15.81	-49.44	---	PASS

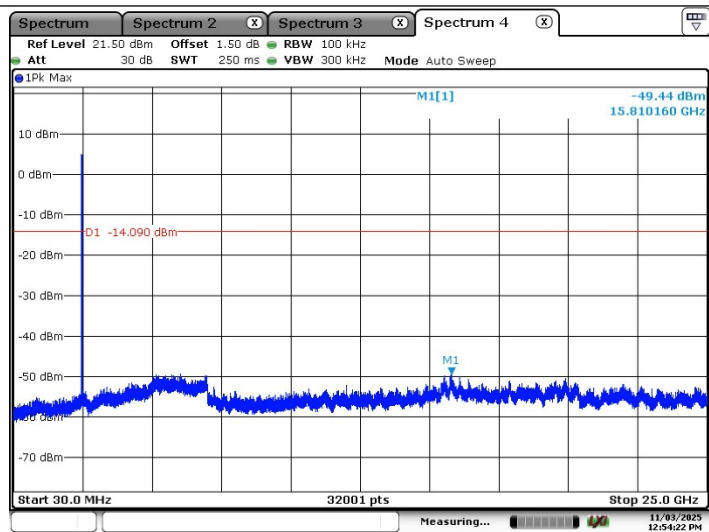
Thread_Ant1_2405



Thread_Ant1_2445



Thread_Ant1_2480



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Appendix B.5: Test Results of Radiated Spurious Emissions

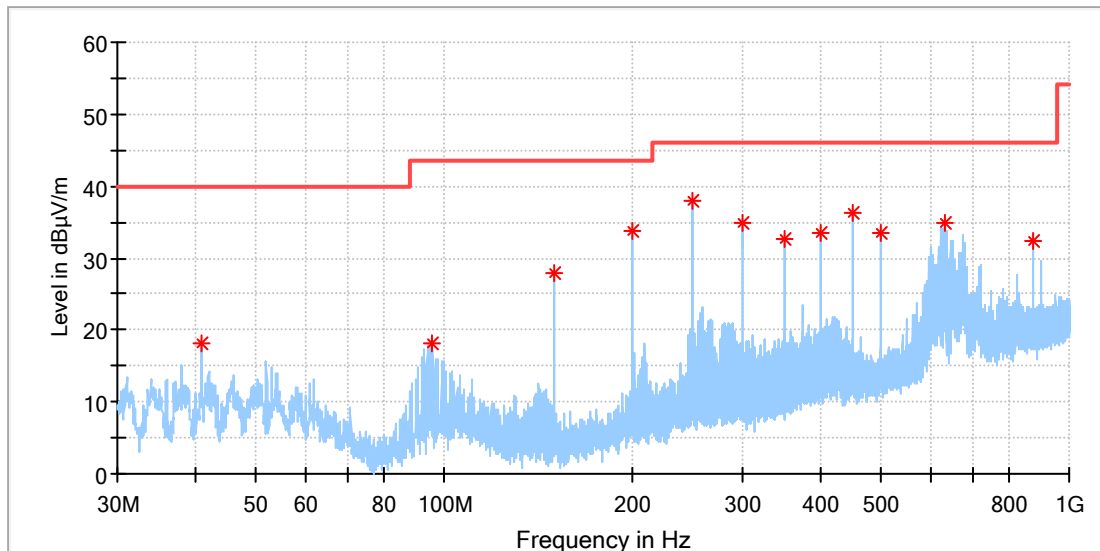
Note:

- 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.

30 MHz - 1GHz

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

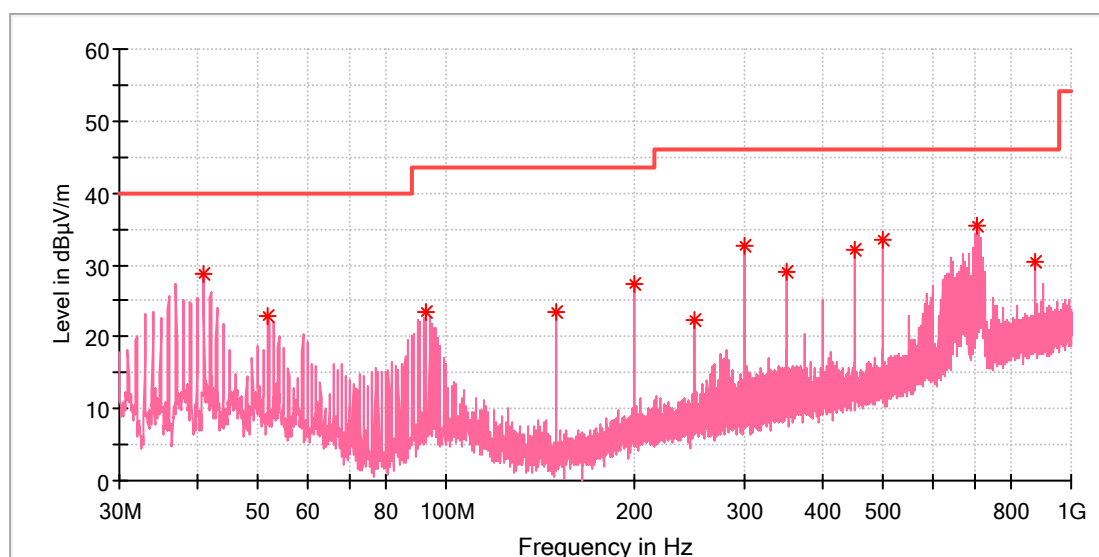


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.968462	18.17	40.00	21.83	100.0	H	108.0	-19.9
95.922692	18.19	43.50	25.31	100.0	H	59.0	-19.7
150.018846	27.93	43.50	15.57	100.0	H	203.0	-22.3
200.011154	33.70	43.50	9.80	100.0	H	76.0	-19.1
250.003462	38.00	46.00	8.00	100.0	H	219.0	-17.4
299.995769	34.93	46.00	11.07	100.0	H	59.0	-16.3
350.025385	32.74	46.00	13.26	100.0	H	258.0	-14.9
400.017692	33.55	46.00	12.45	100.0	H	275.0	-13.8
450.010000	36.21	46.00	9.79	100.0	H	227.0	-12.8
500.002308	33.39	46.00	12.61	100.0	H	227.0	-11.9
631.511923	34.83	46.00	11.17	100.0	H	115.0	-9.1
875.019231	32.37	46.00	13.63	100.0	H	285.0	-5.1

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

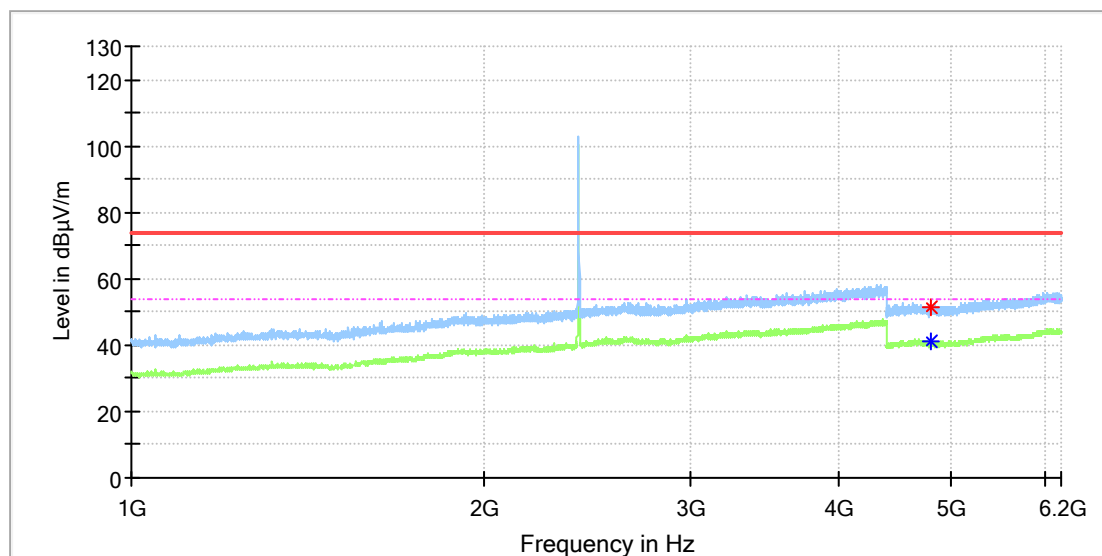
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.968462	28.88	40.00	11.12	100.0	V	222.0	-19.9
51.974231	23.01	40.00	16.99	100.0	V	170.0	-18.4
92.938077	23.46	43.50	20.04	100.0	V	358.0	-20.4
150.018846	23.57	43.50	19.93	100.0	V	161.0	-22.3
200.011154	27.37	43.50	16.13	100.0	V	161.0	-19.1
250.003462	22.42	46.00	23.58	100.0	V	344.0	-17.4
299.995769	32.73	46.00	13.27	100.0	V	76.0	-16.3
350.025385	29.02	46.00	16.98	100.0	V	207.0	-14.9
450.010000	32.21	46.00	13.79	100.0	V	179.0	-12.8
500.002308	33.52	46.00	12.48	100.0	V	229.0	-11.9
705.455769	35.40	46.00	10.60	100.0	V	112.0	-7.8
875.019231	30.34	46.00	15.66	100.0	V	296.0	-5.1

1GHz - 18GHz

Note: The highest waveform in the figure is Thread Fundamental.

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

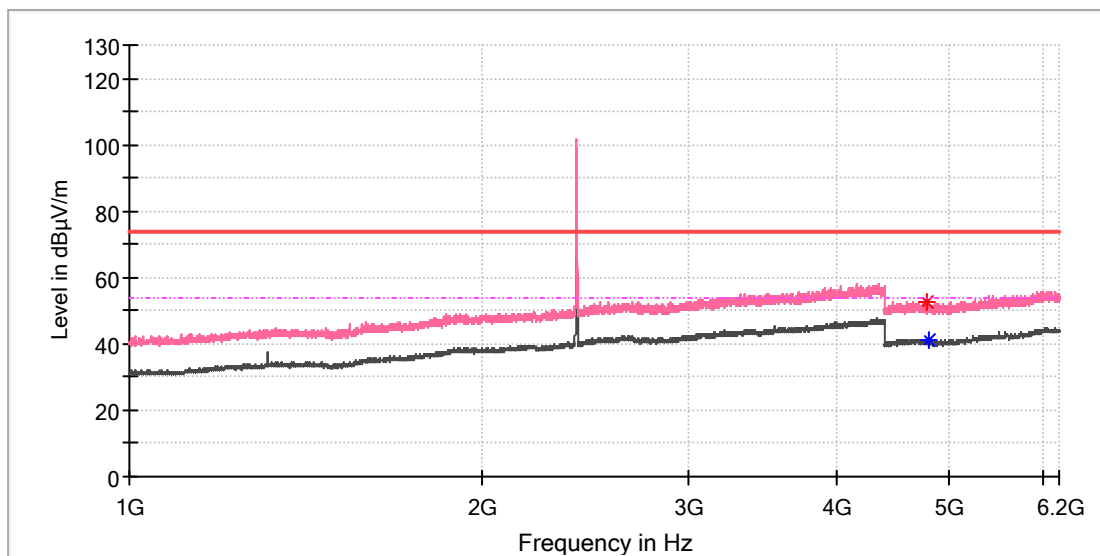


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.000000	---	40.90	54.00	13.10	150.0	H	184.0	13.3
4809.500000	51.51	---	74.00	22.49	150.0	H	71.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

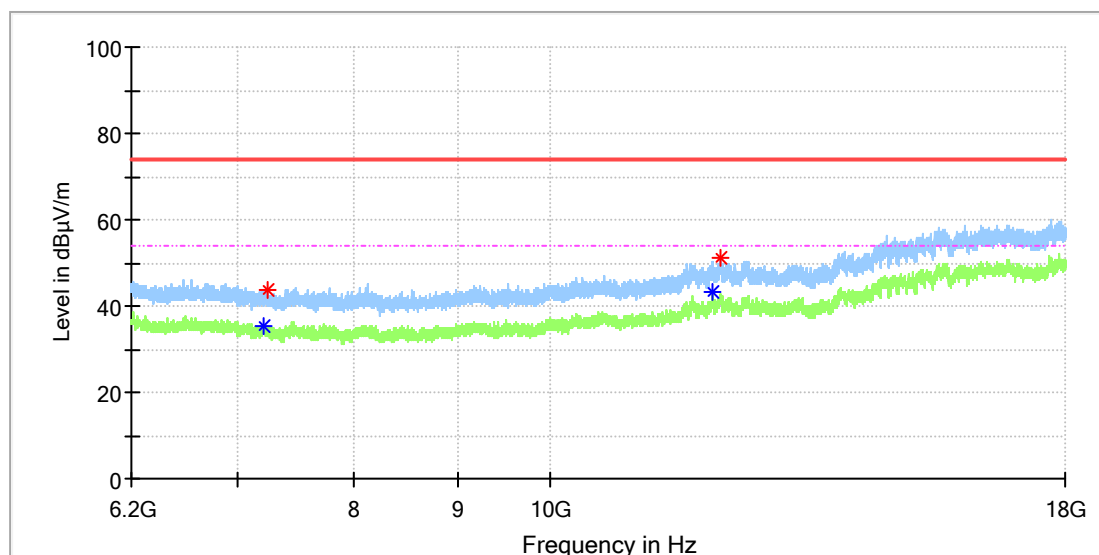


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4780.500000	52.37	---	74.00	21.63	150.0	V	208.0	13.3
4804.500000	---	41.03	54.00	12.97	150.0	V	265.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

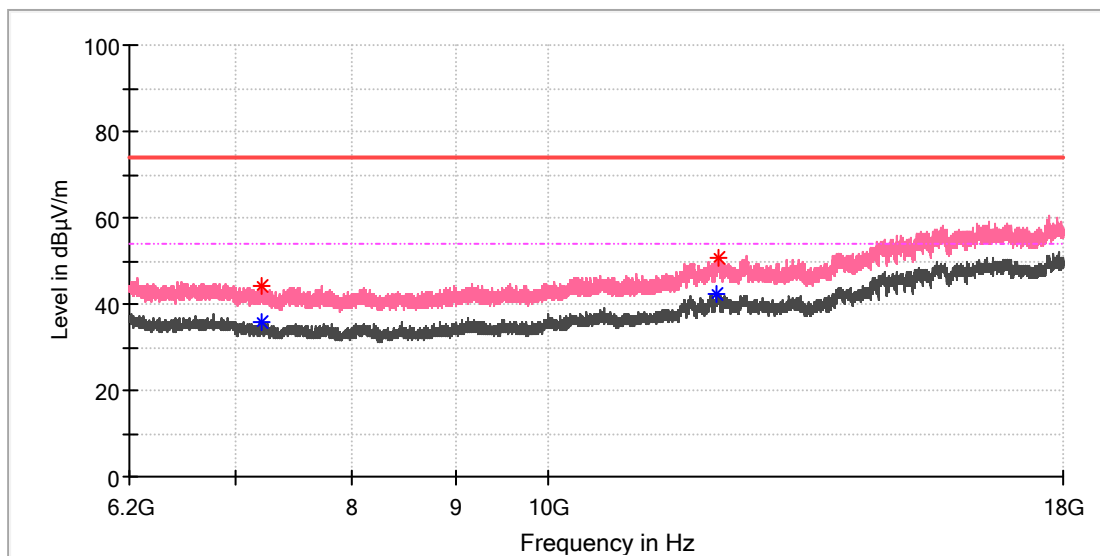


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.291667	---	35.40	54.00	18.60	150.0	H	169.0	8.7
7240.366667	43.76	---	74.00	30.24	150.0	H	202.0	8.6
12041.491667	---	43.34	54.00	10.66	150.0	H	346.0	16.2
12151.133333	51.09	---	74.00	22.91	150.0	H	235.0	16.7

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

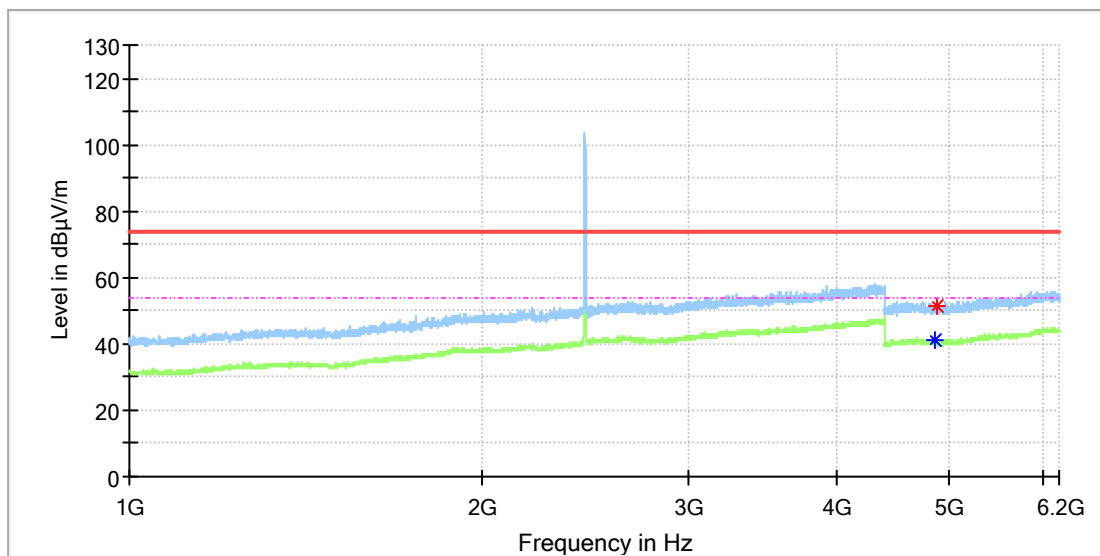


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.000000	44.41	---	74.00	29.59	150.0	V	0.0	8.8
7212.833333	---	35.77	54.00	18.23	150.0	V	38.0	8.7
12119.175000	---	42.35	54.00	11.65	150.0	V	176.0	15.9
12139.333333	50.59	---	74.00	23.41	150.0	V	236.0	16.5

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

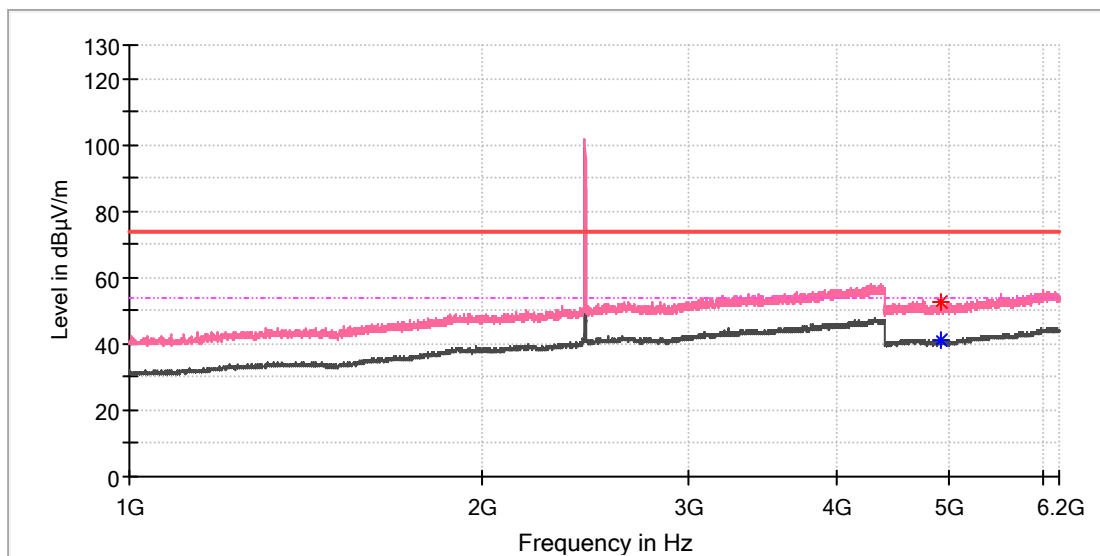


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4859.000000	---	40.95	54.00	13.05	150.0	H	91.0	13.3
4879.000000	51.56	---	74.00	22.44	150.0	H	91.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

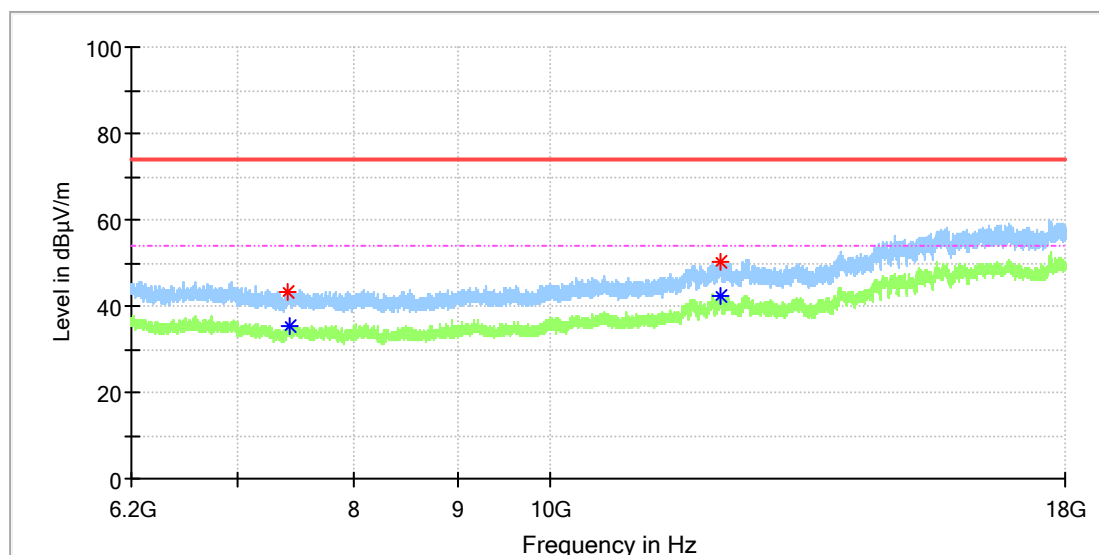


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4908.000000	---	40.89	54.00	13.11	150.0	V	64.0	13.3
4919.500000	52.73	---	74.00	21.27	150.0	V	256.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

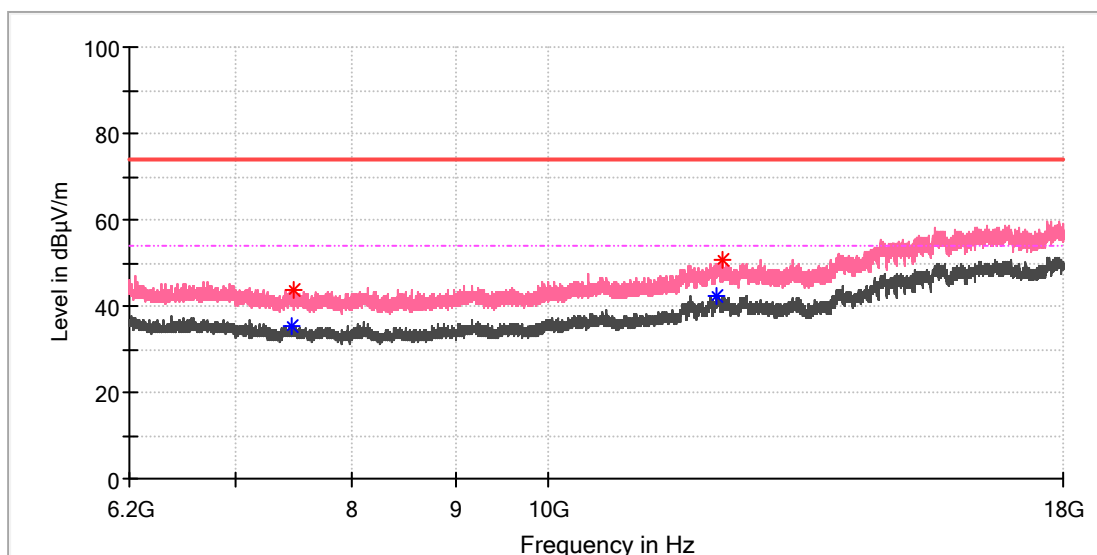


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7402.616667	43.06	---	74.00	30.94	150.0	H	45.0	8.3
7431.133333	---	35.56	54.00	18.44	150.0	H	0.0	8.4
12138.350000	---	42.54	54.00	11.46	150.0	H	215.0	16.4
12142.775000	50.43	---	74.00	23.57	150.0	H	71.0	16.5

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Mid channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

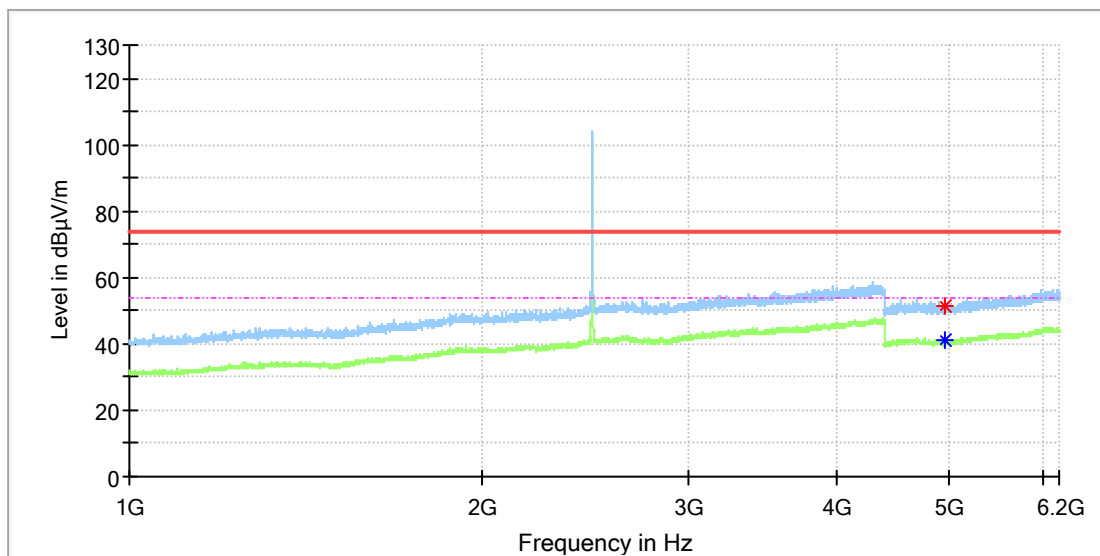


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7464.566667	---	35.31	54.00	18.69	150.0	V	28.0	8.6
7475.875000	43.65	---	74.00	30.35	150.0	V	223.0	8.6
12123.600000	---	42.53	54.00	11.47	150.0	V	282.0	16.0
12212.100000	50.81	---	74.00	23.19	150.0	V	0.0	15.8

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

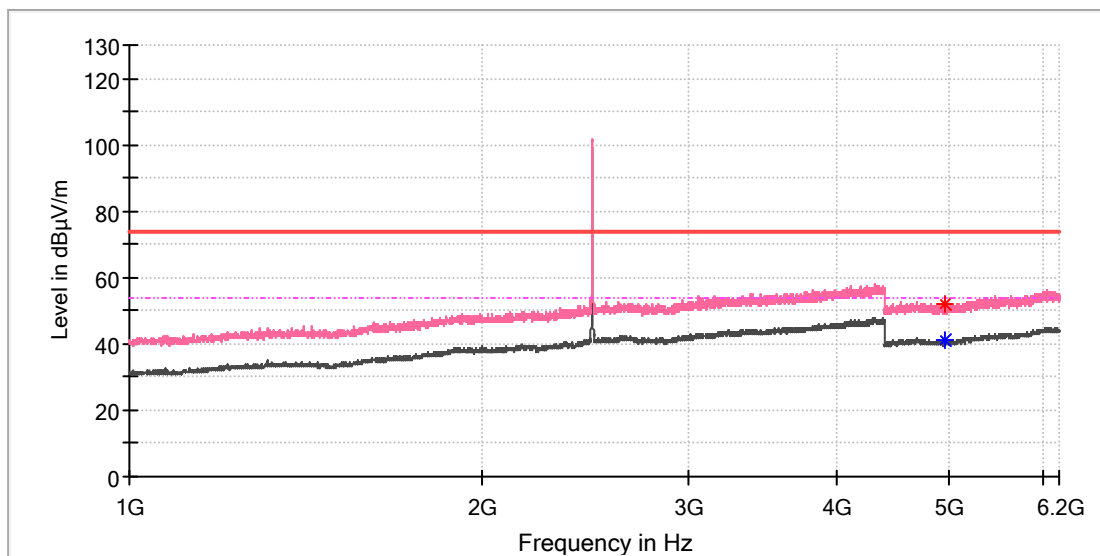


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4950.500000	---	41.40	54.00	12.60	150.0	H	201.0	13.3
4954.000000	51.53	---	74.00	22.47	150.0	H	337.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

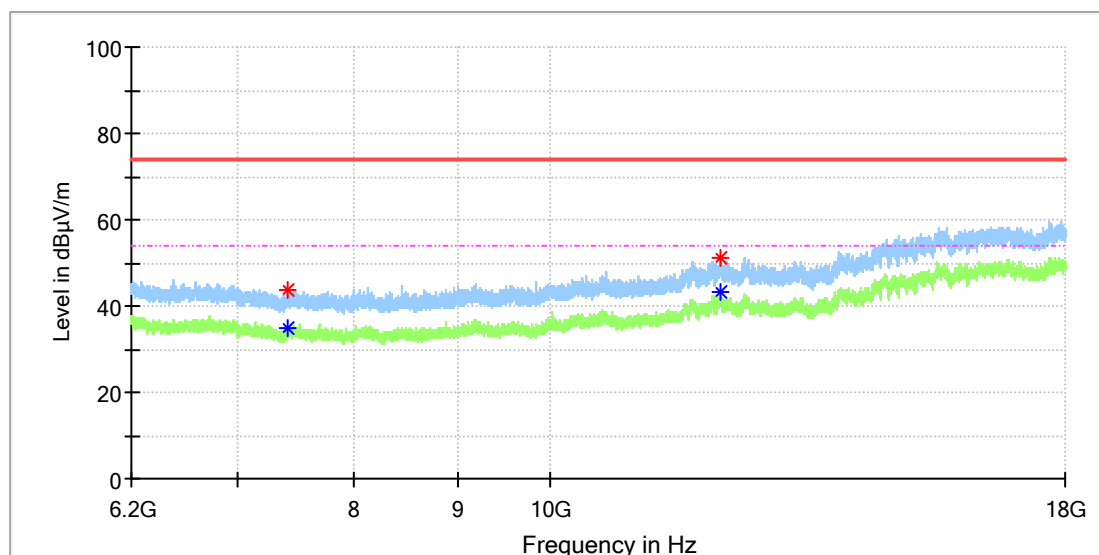


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4952.000000	51.77	---	74.00	22.23	150.0	V	234.0	13.3
4959.000000	---	41.08	54.00	12.92	150.0	V	345.0	13.3

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

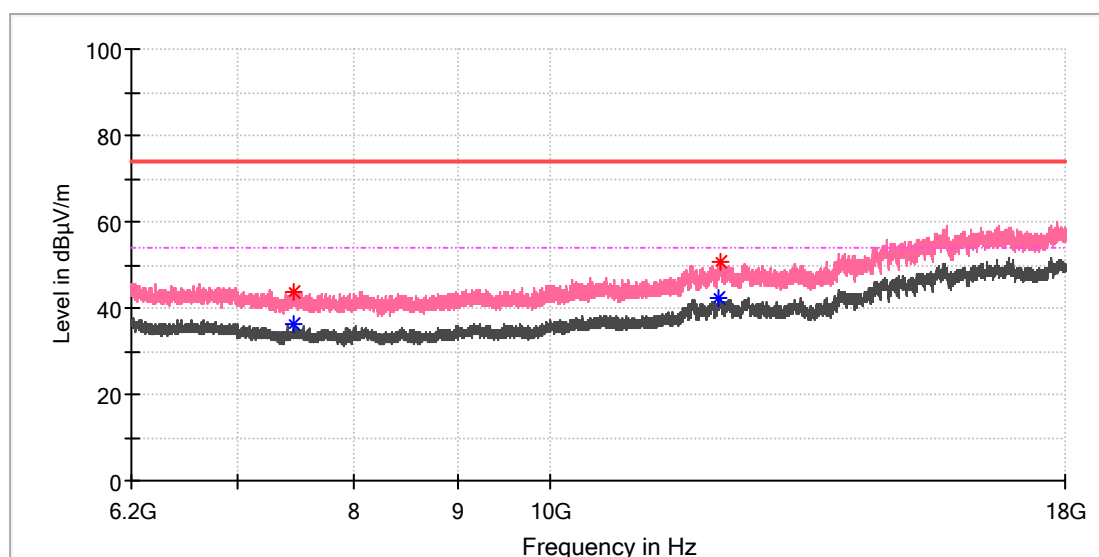


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7416.383333	---	34.87	54.00	19.13	150.0	H	242.0	8.3
7419.333333	43.82	---	74.00	30.18	150.0	H	312.0	8.4
12132.941667	51.32	---	74.00	22.68	150.0	H	279.0	16.3
12140.316667	---	43.40	54.00	10.60	150.0	H	269.0	16.5

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



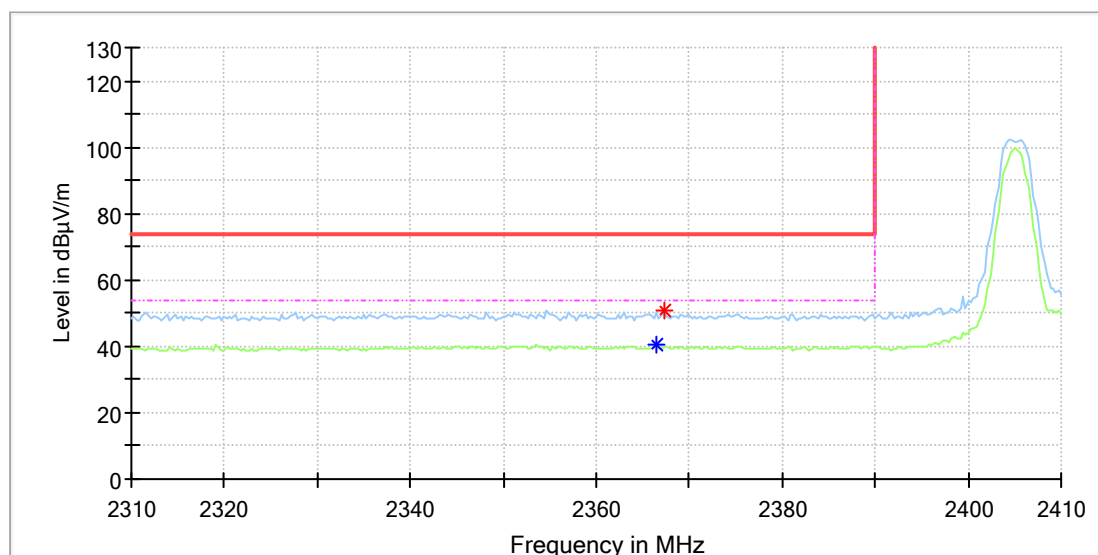
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7462.108333	43.83	---	74.00	30.17	150.0	V	0.0	8.6
7467.516667	---	36.16	54.00	17.85	150.0	V	11.0	8.6
12114.258333	---	42.54	54.00	11.46	150.0	V	208.0	15.8
12156.050000	50.79	---	74.00	23.21	150.0	V	11.0	16.4

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

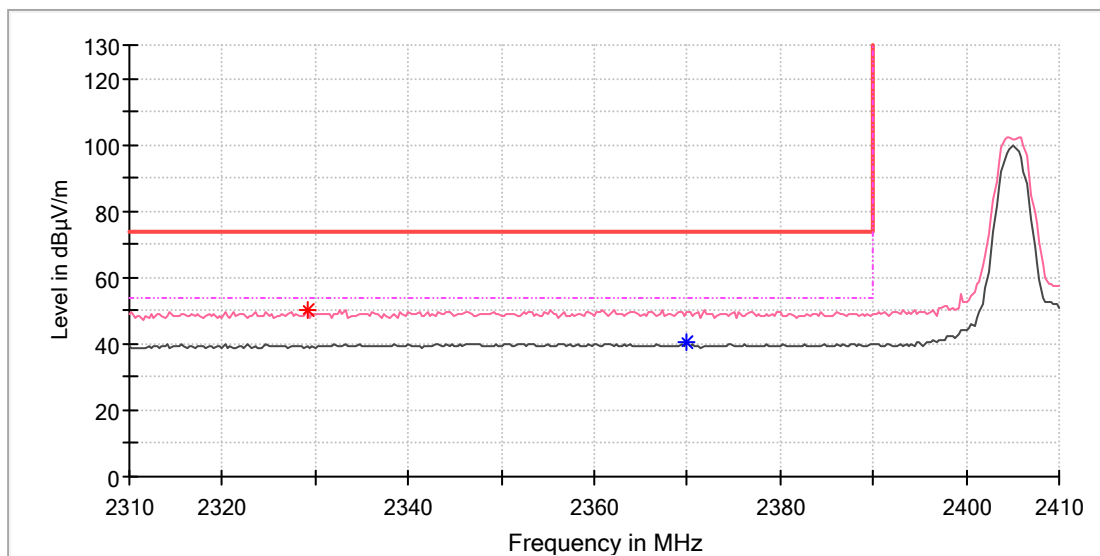


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2366.470588	---	40.35	54.00	13.65	150.0	H	315.0	8.5
2367.352941	50.66	---	74.00	23.34	150.0	H	359.0	8.5

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	Low channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

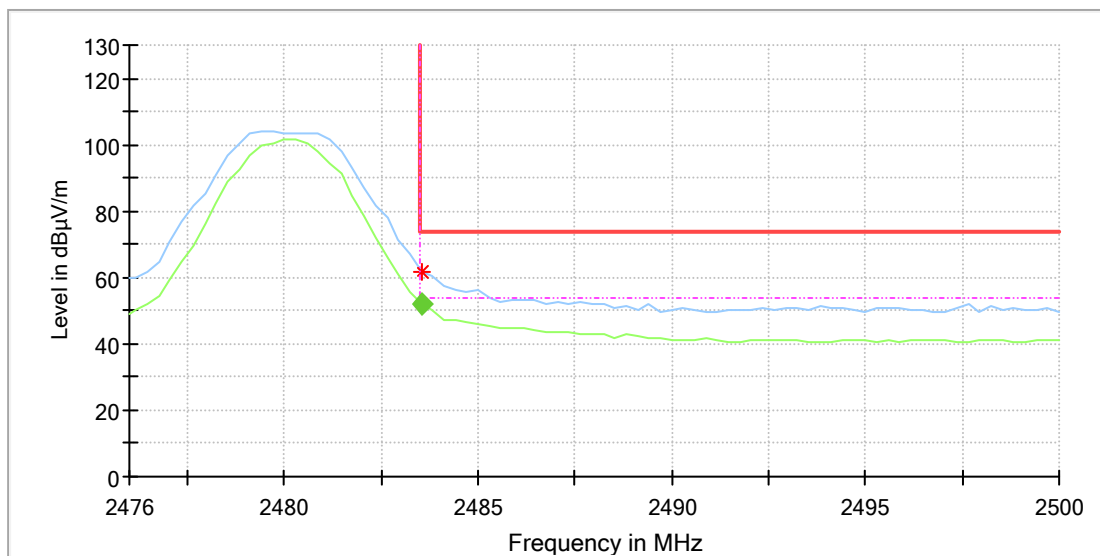


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2329.117647	50.43	---	74.00	23.57	150.0	V	258.0	8.3
2370.000000	---	40.22	54.00	13.78	150.0	V	49.0	8.5

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

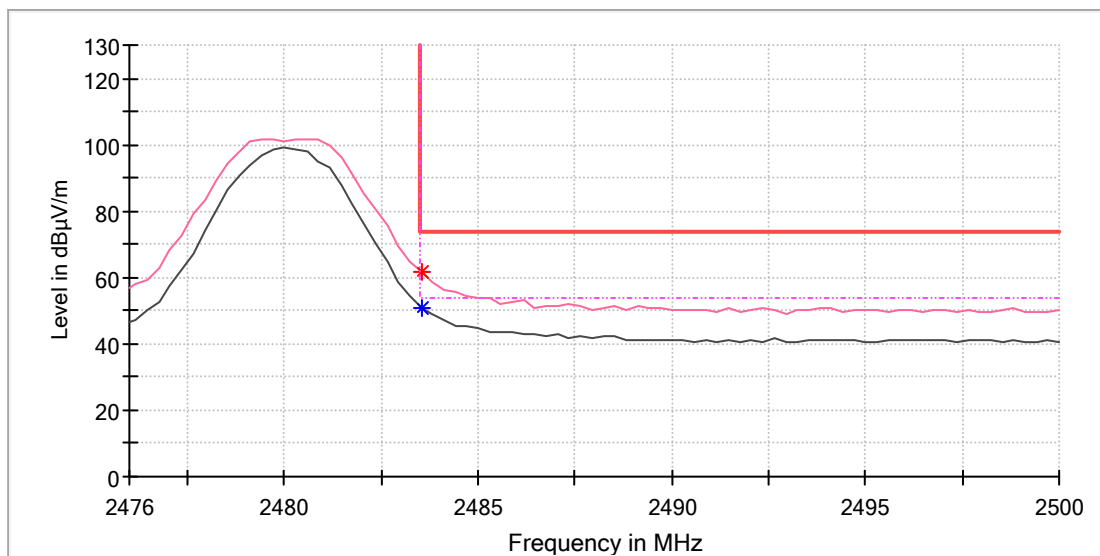
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	61.96	---	74.00	12.04	150.0	H	312.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.80	54.00	2.20	150.0	H	312.0	9.0

EUT Information

EUT Name:	Split Thermostat
Model:	RXV370KT
Test Mode:	High channel
Order No/Sample No:	168575432/A004086592-004
Test Voltage::	AC 24V
Remark:	Temp 23 Humi:54%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



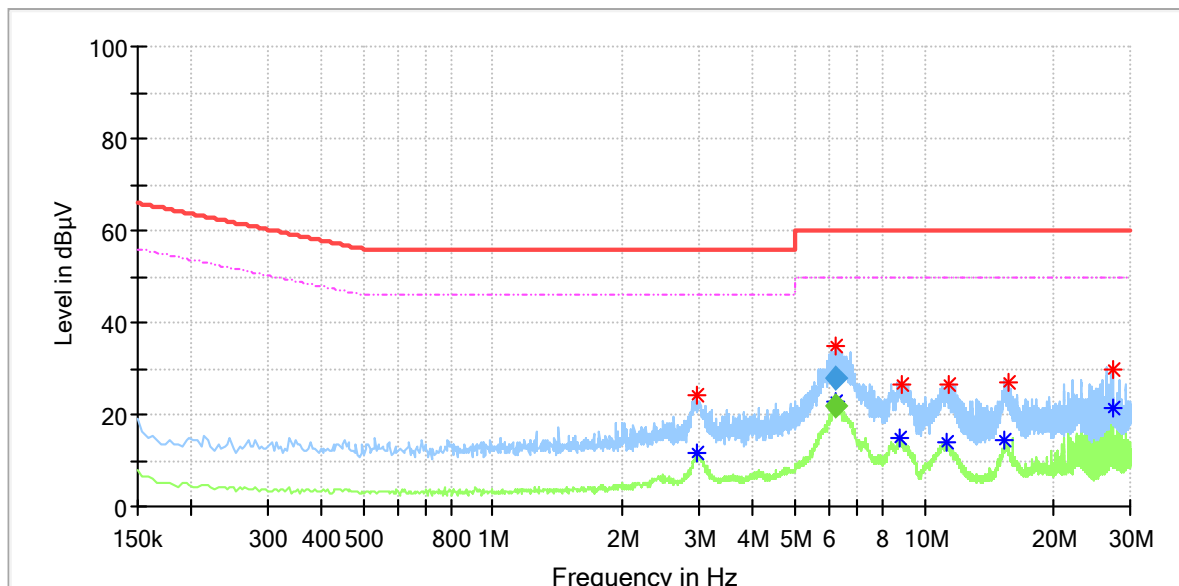
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	61.40	---	74.00	12.60	150.0	V	221.0	9.0
2483.529412	---	50.73	54.00	3.27	150.0	V	221.0	9.0

Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Split Thermostat
Order Number: 168575432(P02095670)
Model: RXV370KT
Test Mode: Normal working with Thread connecting
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By:/Review By: Junhua Sun/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical_Freqs

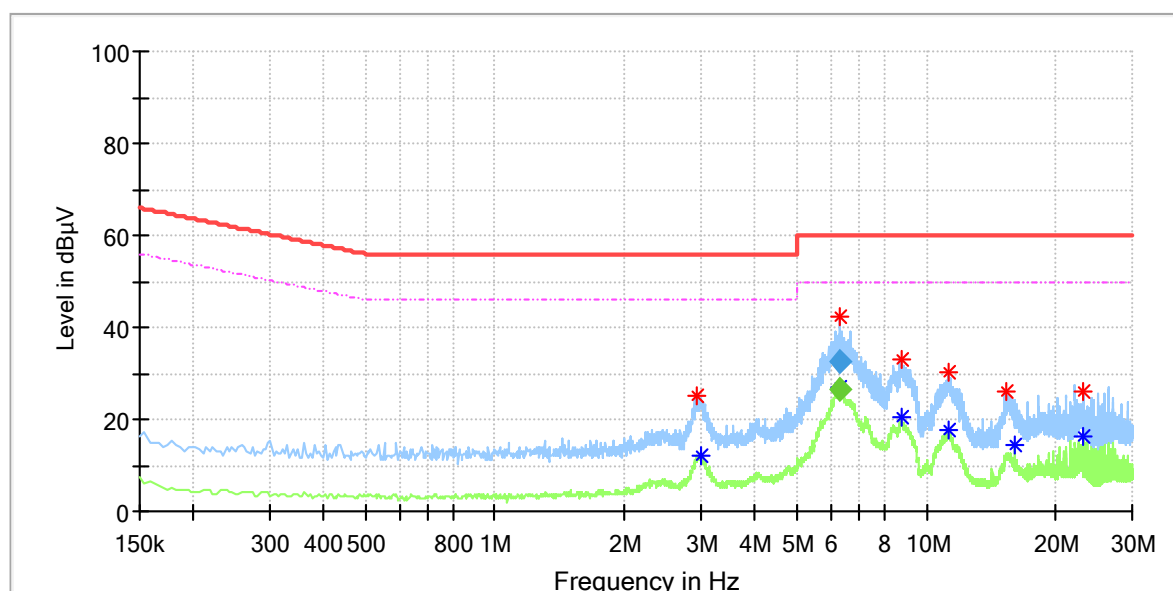
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.98	---	11.85	46.00	34.15	L1	10.34
2.98	23.97	---	56.00	32.03	L1	10.34
6.23	34.80	---	60.00	25.20	L1	10.49
6.26	---	22.68	50.00	27.32	L1	10.49
8.79	---	15.08	50.00	34.92	L1	10.60
8.87	26.46	---	60.00	33.54	L1	10.61
11.30	---	13.93	50.00	36.07	L1	10.69
11.34	26.56	---	60.00	33.44	L1	10.69
15.37	---	14.24	50.00	35.76	L1	10.80
15.65	27.03	---	60.00	32.97	L1	10.82
27.34	---	21.58	50.00	28.42	L1	11.38
27.34	29.72	---	60.00	30.28	L1	11.38

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
6.23	28.13	---	60.00	31.87	1000.00	9.00	L1	10.49
6.26	---	22.07	50.00	27.93	1000.00	9.00	L1	10.49

EUT Information

EUT Name: Split Thermostat
 Order Number: 168575432(P02095670)
 Model: RXV370KT
 Test Mode: Normal working with Thread connecting
 Test Voltage: AC 120V/60Hz
 Test Standard: FCC Part 15B
 Test By:/Review By: Junhua Sun/ Charlie Zha
 Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
 Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.95	25.02	---	56.00	30.98	N	10.34
2.99	---	12.25	46.00	33.75	N	10.34
6.27	---	26.82	50.00	23.18	N	10.49
6.29	42.38	---	60.00	17.62	N	10.49
8.75	33.21	---	60.00	26.79	N	10.60
8.79	---	20.53	50.00	29.47	N	10.60
11.23	30.02	---	60.00	29.98	N	10.68
11.26	---	17.50	50.00	32.50	N	10.68
15.36	26.02	---	60.00	33.98	N	10.77
16.00	---	14.41	50.00	35.59	N	10.82
23.17	26.21	---	60.00	33.79	N	11.24
23.19	---	16.21	50.00	33.79	N	11.24

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
6.27	---	26.41	50.00	23.59	1000.00	9.00	N	10.49
6.29	32.70	---	60.00	27.30	1000.00	9.00	N	10.49