

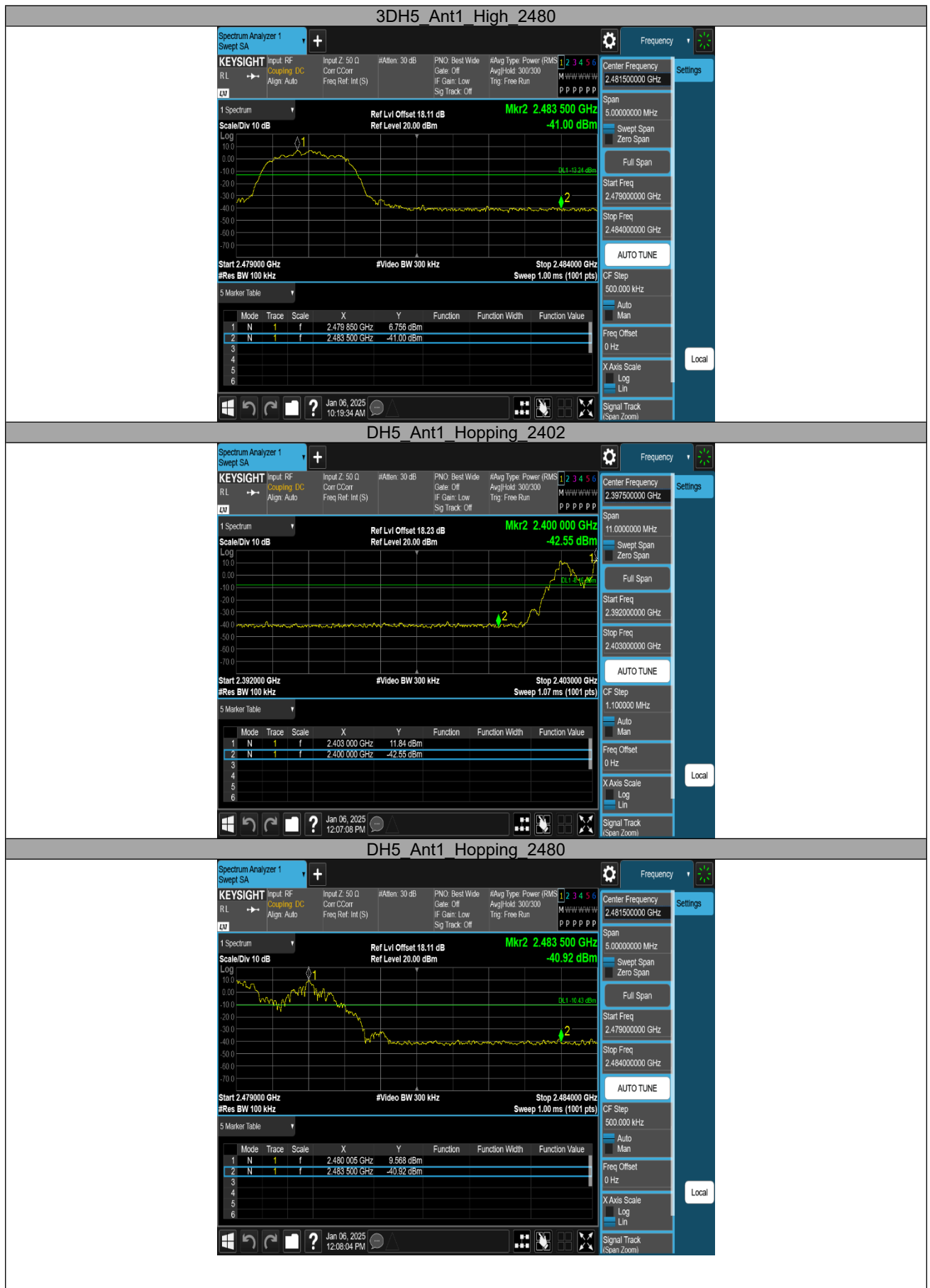
Appendix A.6: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.36	-41.22	≤-8.64	PASS
		High	2480	9.82	-40.93	≤-10.18	PASS
3DH5	Ant1	Low	2402	8.33	-40.38	≤-11.67	PASS
		High	2480	6.76	-41.00	≤-13.24	PASS
DH5	Ant1	Hopping	2402	11.84	-42.55	≤-8.16	PASS
		Hopping	2480	9.57	-40.92	≤-10.43	PASS
3DH5	Ant1	Hopping	2402	9.96	-41.50	≤-10.04	PASS
		Hopping	2480	9.82	-41.65	≤-10.18	PASS

Test Graphs







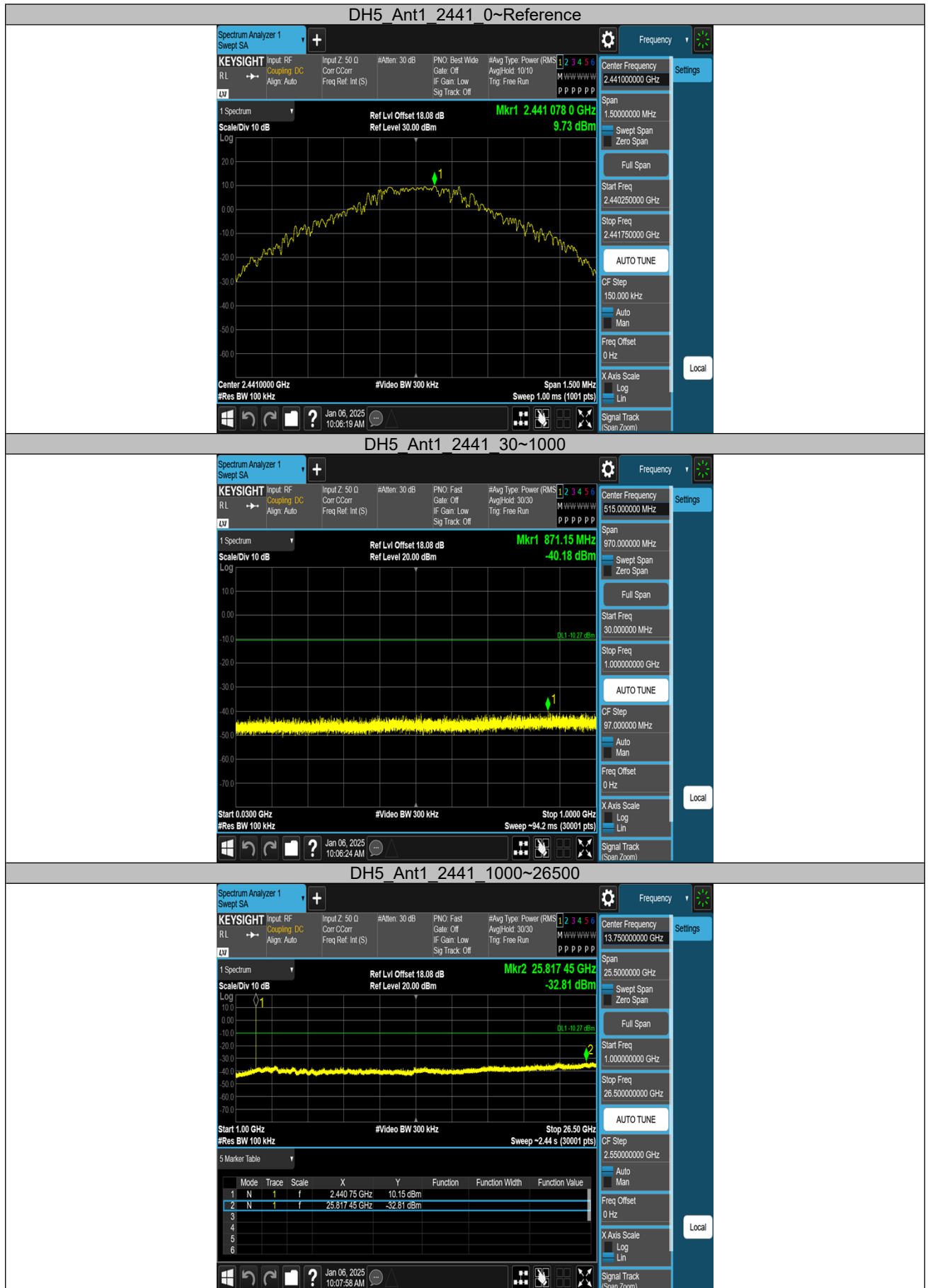
Appendix A.7: Test Results of Conducted Spurious Emissions

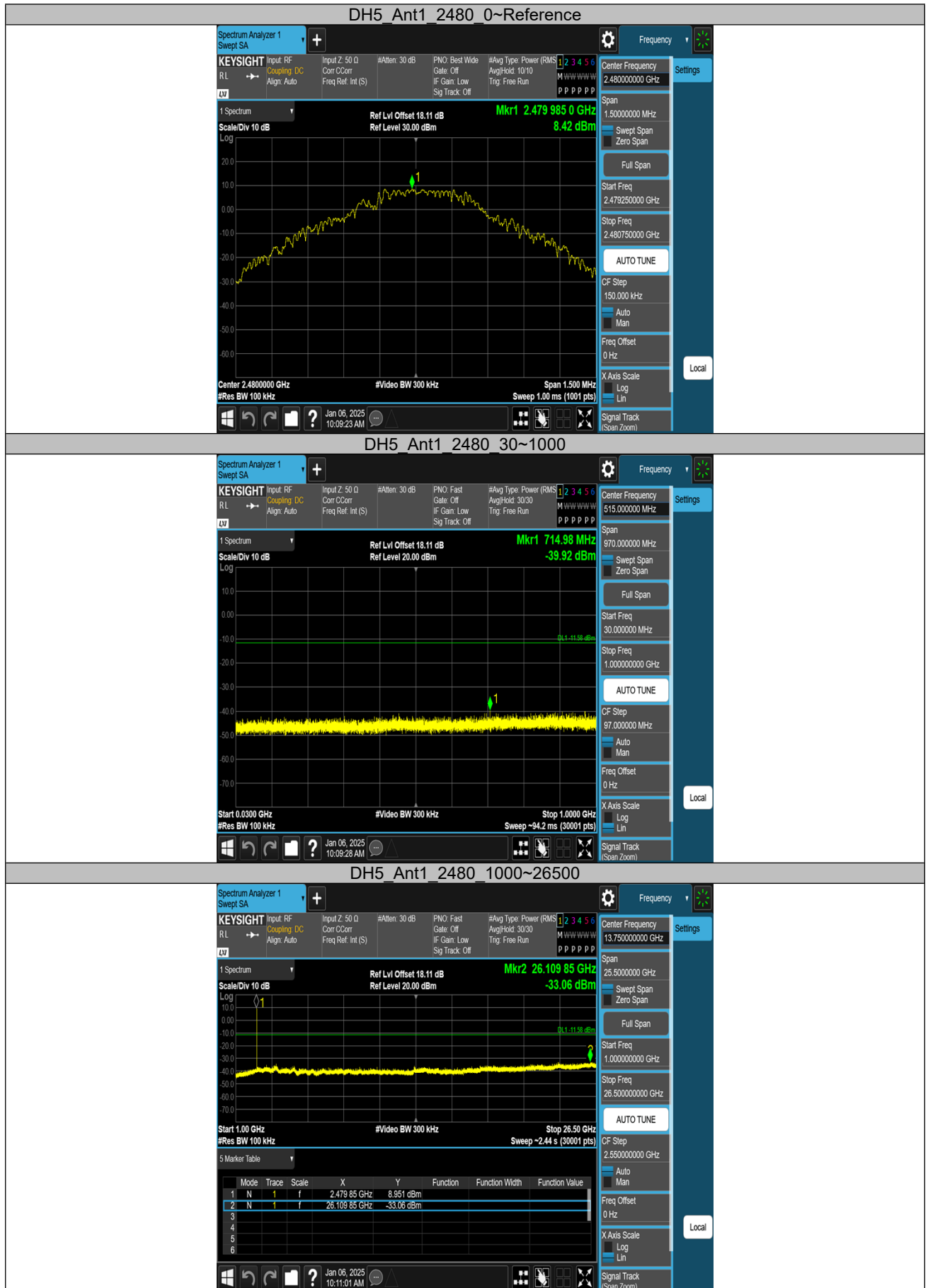
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	10.56	10.56	---	PASS
			30~1000	10.56	-40.02	≤-9.44	PASS
			1000~26500	10.56	-32.27	≤-9.44	PASS
		2441	Reference	9.73	9.73	---	PASS
			30~1000	9.73	-40.18	≤-10.27	PASS
			1000~26500	9.73	-32.81	≤-10.27	PASS
		2480	Reference	8.42	8.42	---	PASS
			30~1000	8.42	-39.92	≤-11.58	PASS
			1000~26500	8.42	-33.06	≤-11.58	PASS
3DH5	Ant1	2402	Reference	7.69	7.69	---	PASS
			30~1000	7.69	-40.28	≤-12.31	PASS
			1000~26500	7.69	-32.57	≤-12.31	PASS
		2441	Reference	6.52	6.52	---	PASS
			30~1000	6.52	-40.37	≤-13.48	PASS
			1000~26500	6.52	-32.72	≤-13.48	PASS
		2480	Reference	6.23	6.23	---	PASS
			30~1000	6.23	-39.77	≤-13.77	PASS
			1000~26500	6.23	-31.82	≤-13.77	PASS

Test Graphs

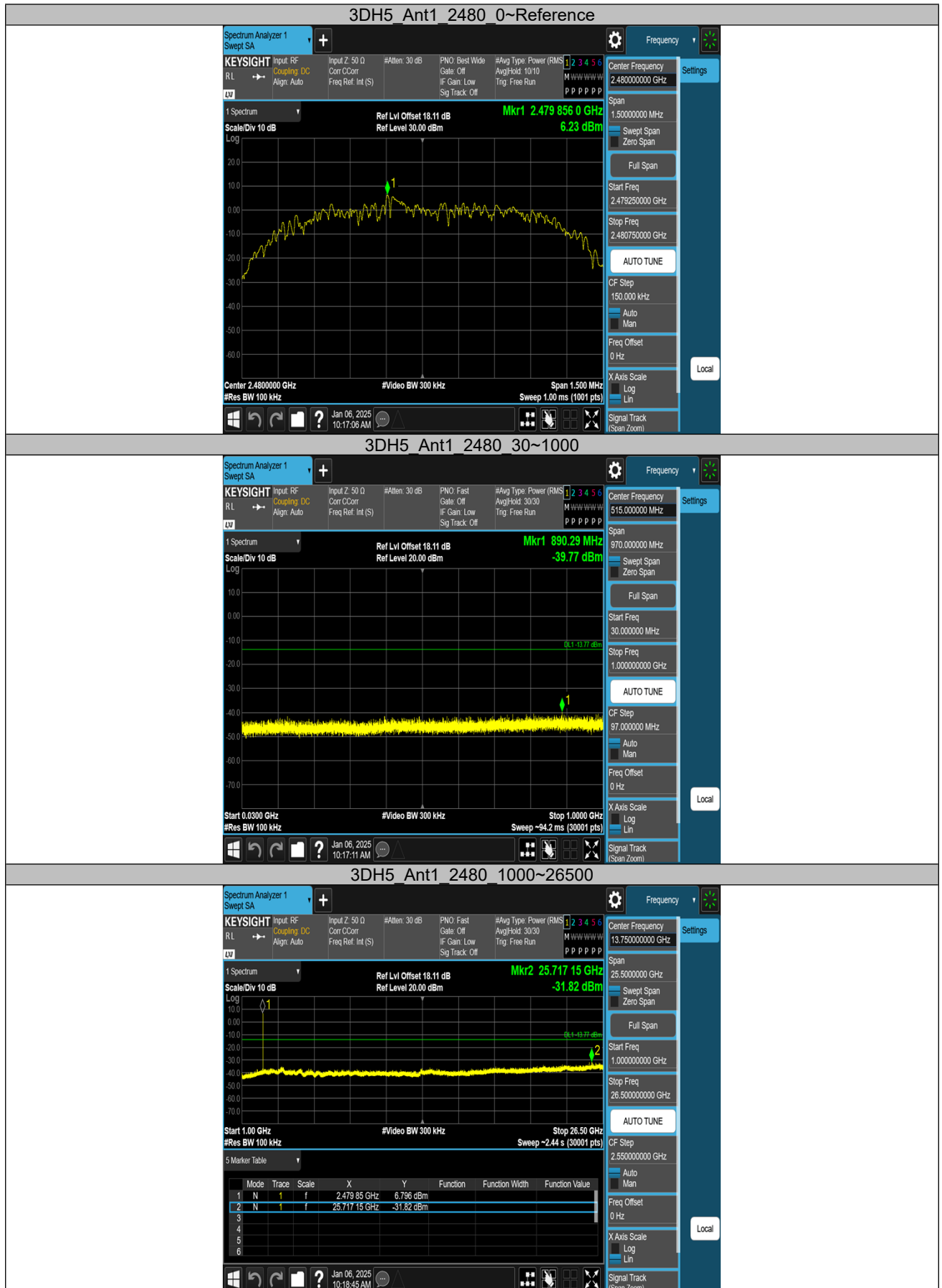












Appendix A.8: Test Results of Radiated Spurious Emissions

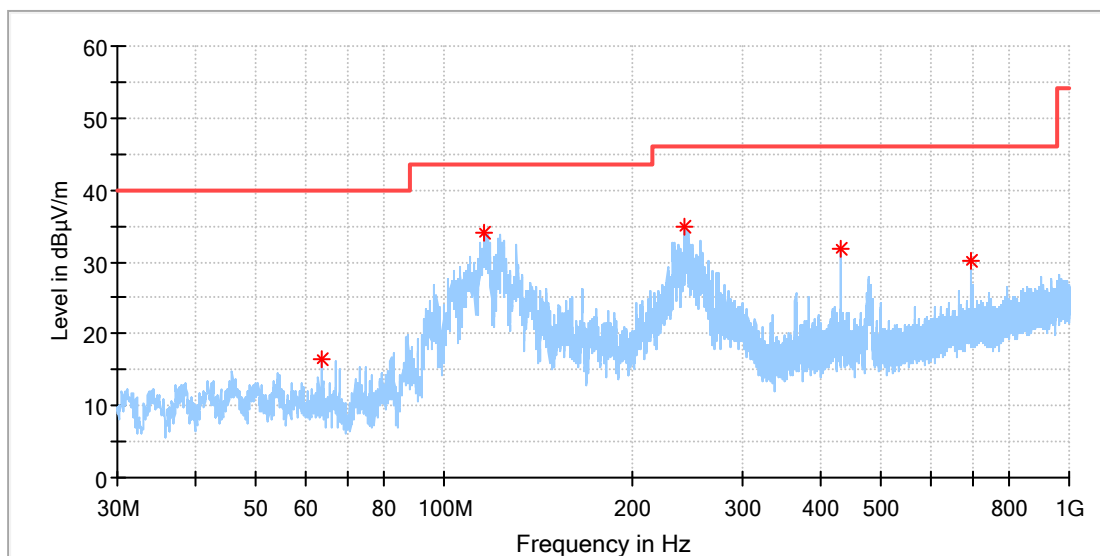
Note:

- 1) This testing was carried out on different modulations & different channels, 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:	WIFI+BT Module
Model:	DT3HR1601
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168518486/A003886577-011
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

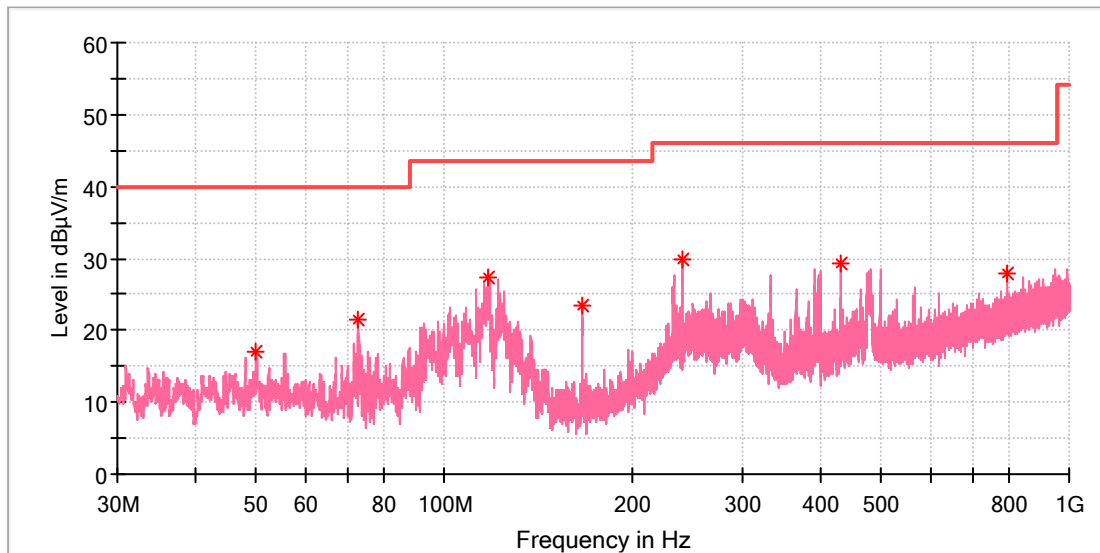
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.838077	16.60	40.00	23.40	100.0	H	242.0	-20.0
115.882308	34.16	43.50	9.34	100.0	H	354.0	-20.0
241.609231	34.92	46.00	11.08	100.0	H	325.0	-17.7
432.027692	31.83	46.00	14.17	100.0	H	30.0	-13.1
695.755769	30.27	46.00	15.73	100.0	H	250.0	-8.0

Final Result

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

EUT Information

EUT Name:	WIFI+BT Module
Model:	DT3HR1601
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168518486/A003886577-011
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:52%
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)
50.108846	17.07	40.00	22.93	100.0	V	180.0	-18.4
72.978462	21.44	40.00	18.56	100.0	V	41.0	-22.9
117.449231	27.48	43.50	16.02	100.0	V	270.0	-20.4
165.986539	23.32	43.50	20.18	100.0	V	263.0	-21.5
240.005000	29.75	46.00	16.25	100.0	V	238.0	-17.7
432.027692	29.23	46.00	16.77	100.0	V	263.0	-13.1
798.240000	27.85	46.00	18.15	100.0	V	56.0	-6.2

Final Result

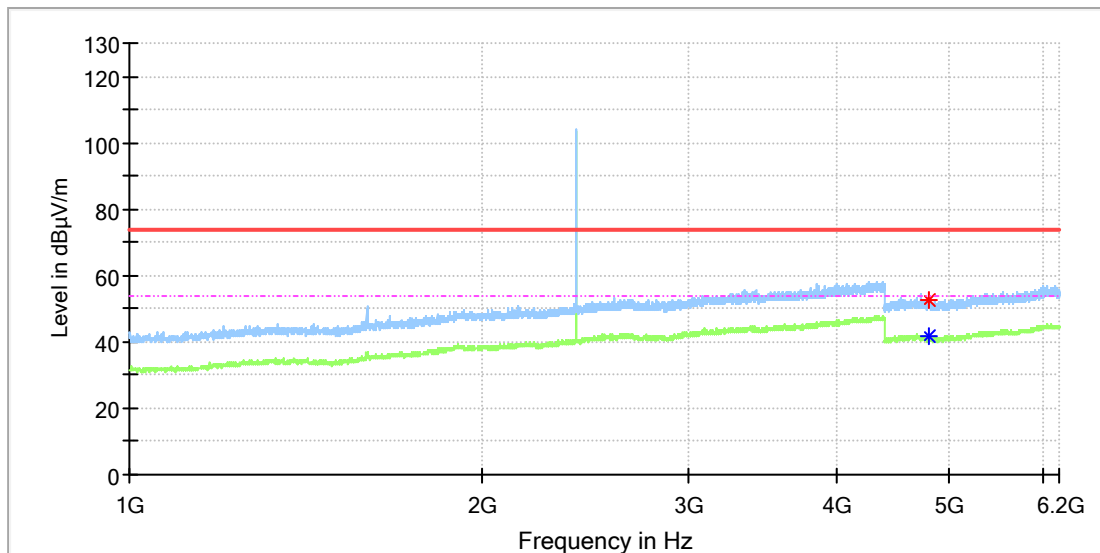
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	WIFI+BT Module
Model:	DT3HR1601
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168518486/A003886577-011
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

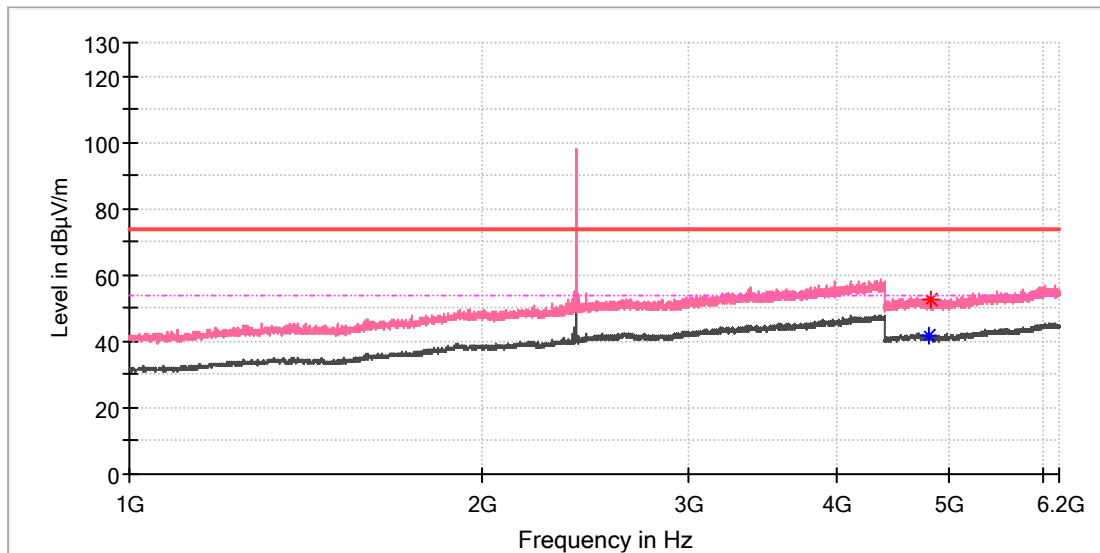
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4808.500000	52.39	---	74.00	21.61	150.0	H	73.0	13.3
4808.500000	---	41.74	54.00	12.26	150.0	H	73.0	13.3

Final_Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

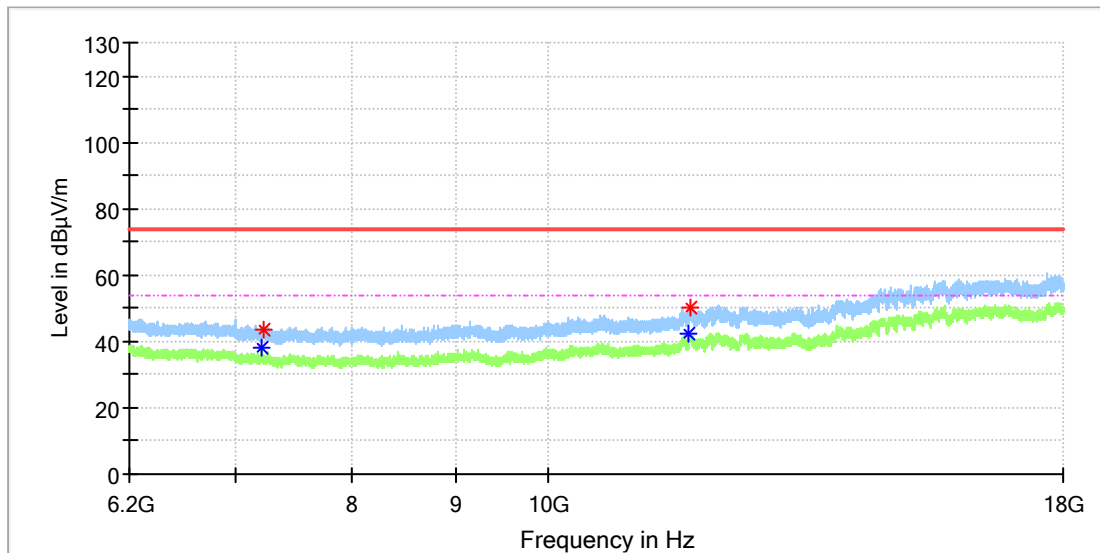
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	---	41.67	54.00	12.33	150.0	V	98.0	13.3
4811.500000	52.56	---	74.00	21.44	150.0	V	87.0	13.3

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

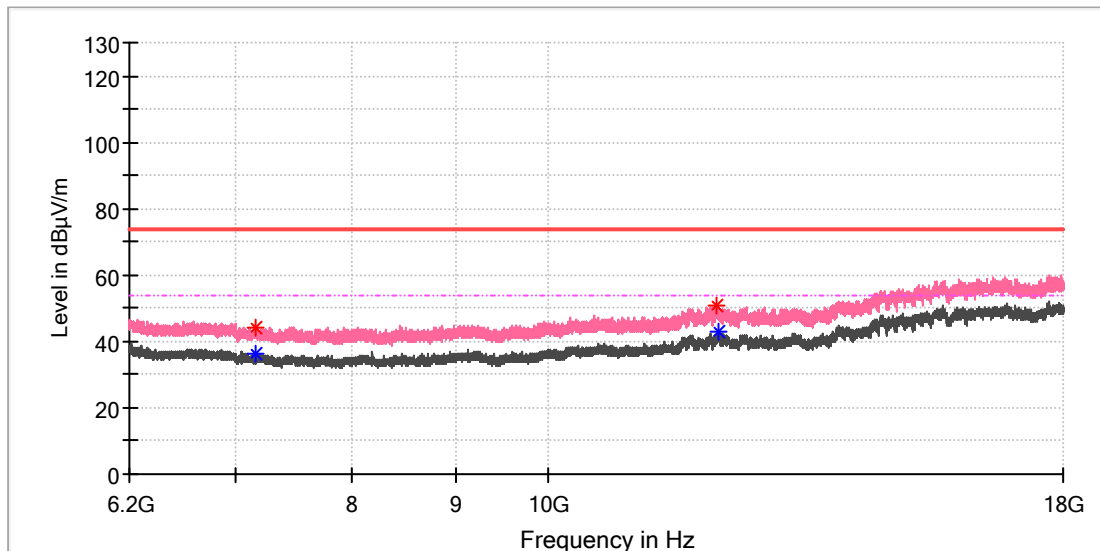
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7206.441667	---	37.92	54.00	16.08	150.0	H	186.0	8.8
7223.650000	43.80	---	74.00	30.20	150.0	H	286.0	8.7
11743.050000	---	42.29	54.00	11.71	150.0	H	347.0	15.1
11756.816667	50.34	---	74.00	23.66	150.0	H	309.0	15.4

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

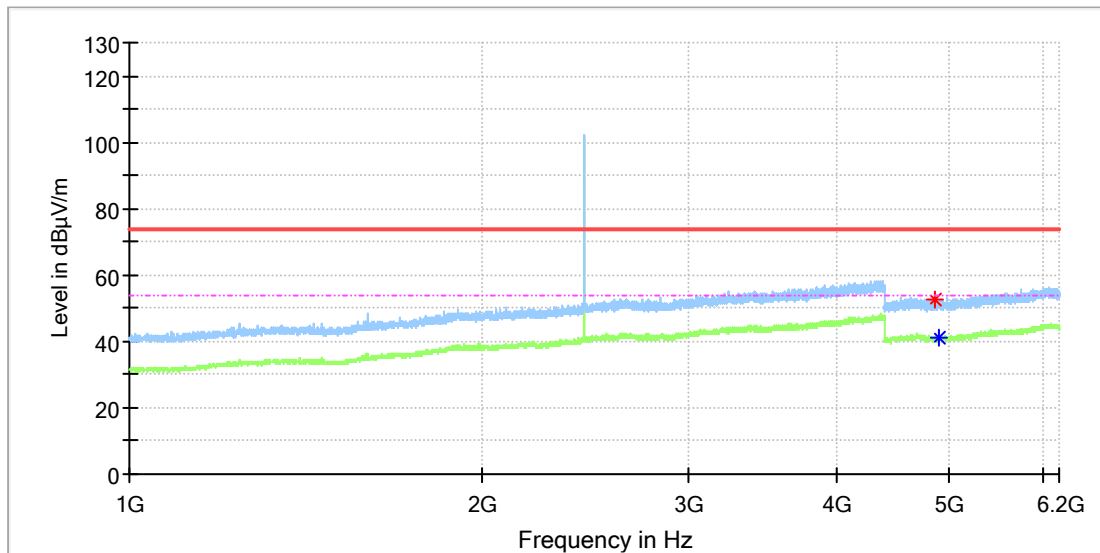
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7161.700000	44.35	---	74.00	29.65	150.0	V	29.0	8.7
7161.700000	---	36.54	54.00	17.46	150.0	V	29.0	8.7
12131.466667	50.49	---	74.00	23.51	150.0	V	258.0	16.2
12144.741667	---	42.92	54.00	11.08	150.0	V	218.0	16.6

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

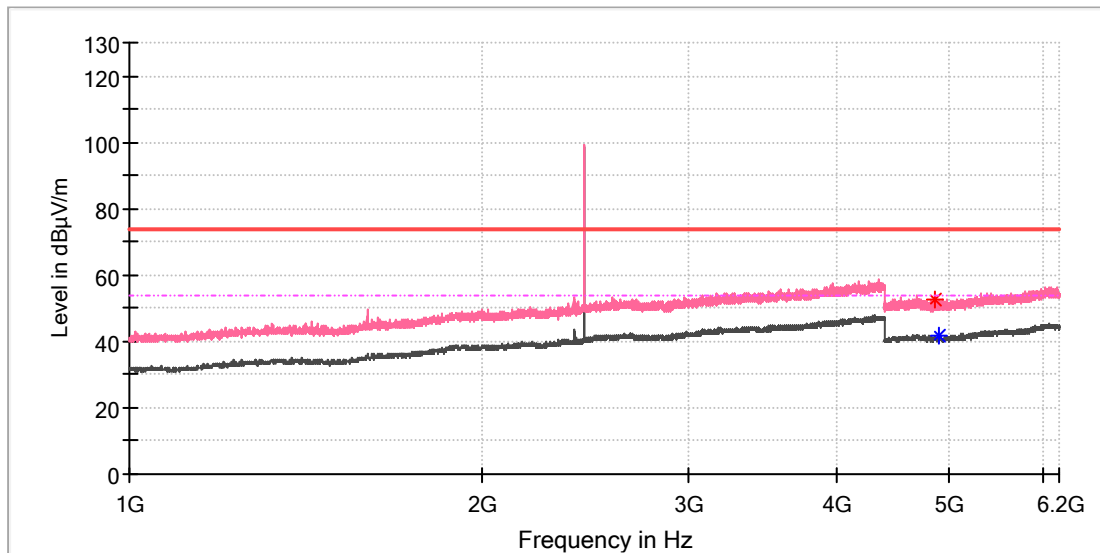
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4864.000000	52.50	---	74.00	21.50	150.0	H	62.0	13.3
4899.500000	---	41.29	54.00	12.71	150.0	H	3.0	13.3

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

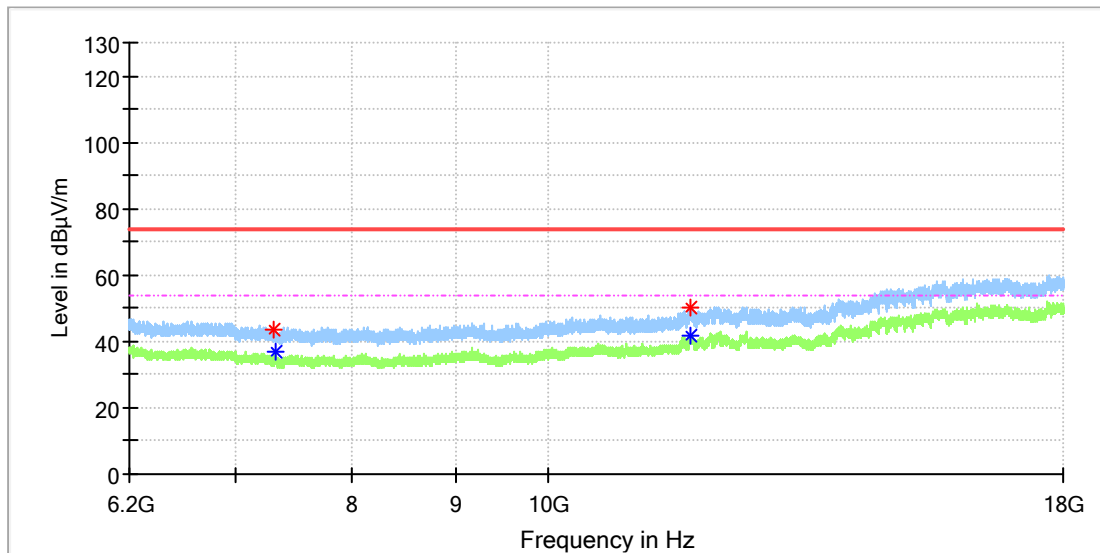
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4865.500000	52.33	---	74.00	21.67	150.0	V	2.0	13.3
4903.500000	---	41.58	54.00	12.42	150.0	V	175.0	13.3

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

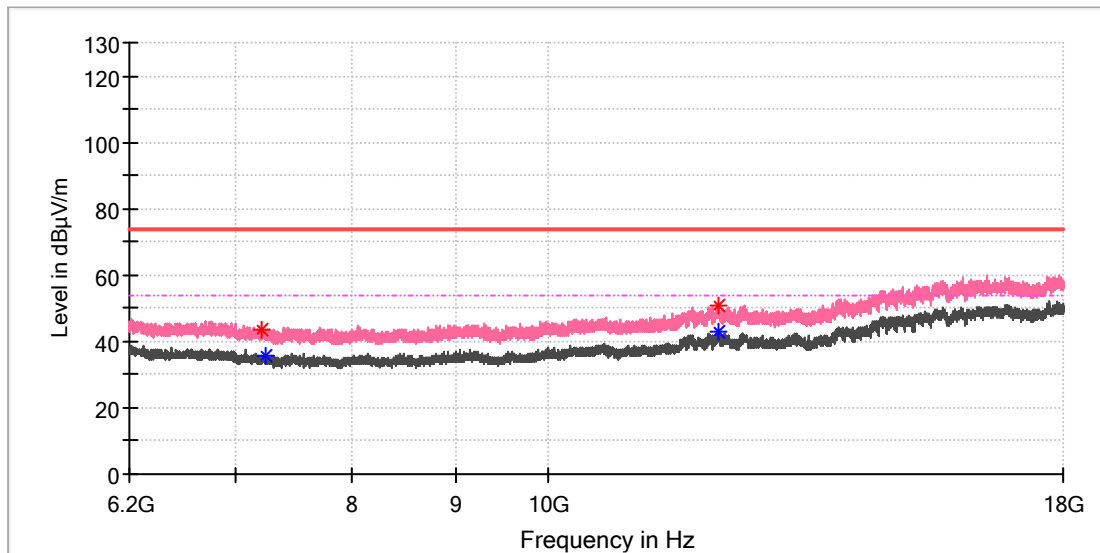
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7305.266667	43.47	---	74.00	30.53	150.0	H	86.0	8.3
7323.458333	---	36.71	54.00	17.29	150.0	H	186.0	8.2
11752.883333	50.49	---	74.00	23.51	150.0	H	312.0	15.5
11772.058333	---	41.51	54.00	12.49	150.0	H	152.0	15.2

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

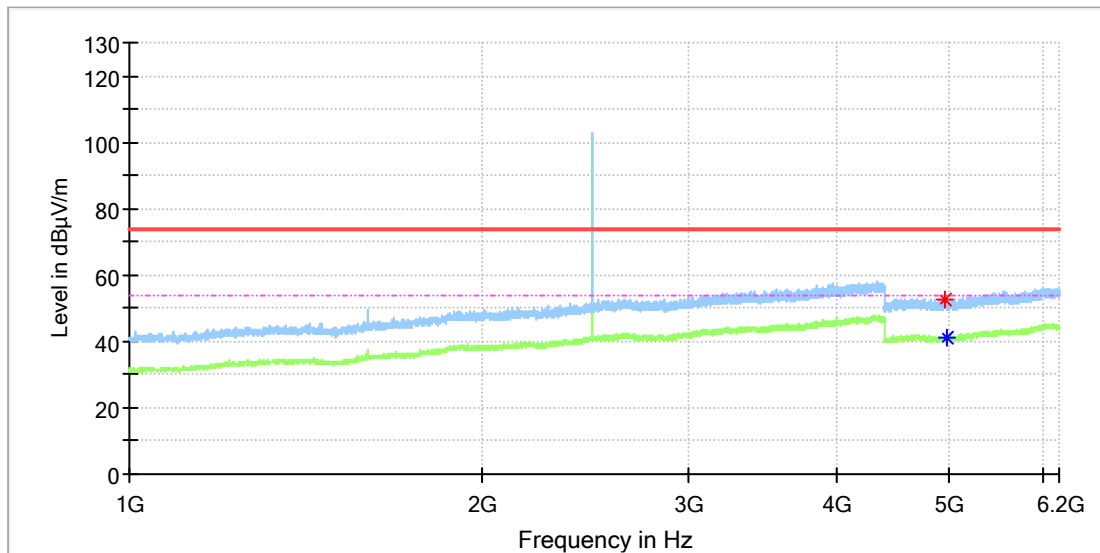
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7216.275000	43.81	---	74.00	30.19	150.0	V	270.0	8.7
7235.941667	---	35.51	54.00	18.49	150.0	V	346.0	8.6
12143.758333	---	42.79	54.00	11.21	150.0	V	312.0	16.6
12148.675000	51.09	---	74.00	22.91	150.0	V	312.0	16.7

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_High channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

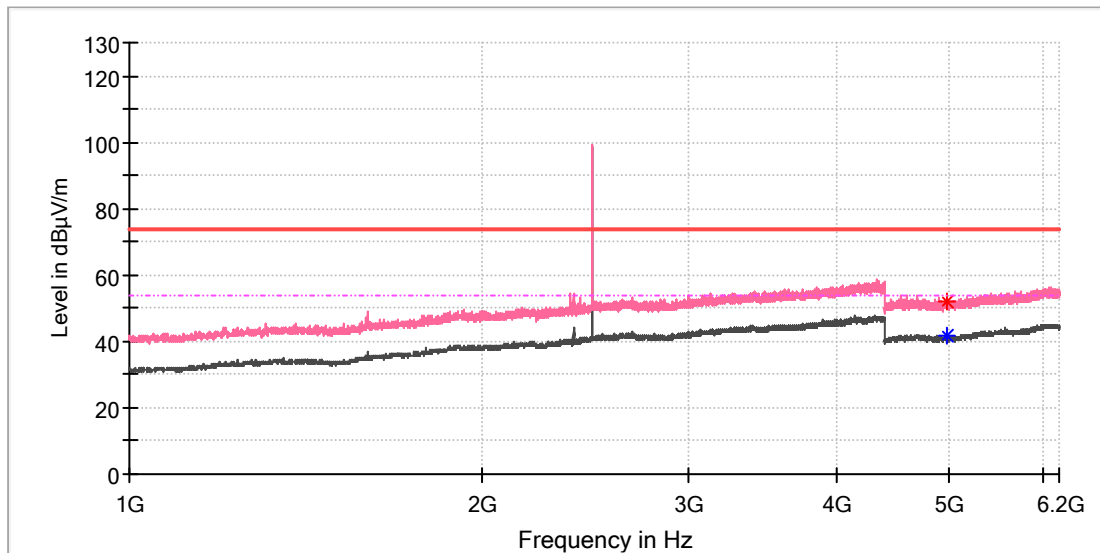
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.86	---	74.00	21.14	150.0	H	296.0	13.3
4965.500000	---	41.39	54.00	12.61	150.0	H	58.0	13.3

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_High channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

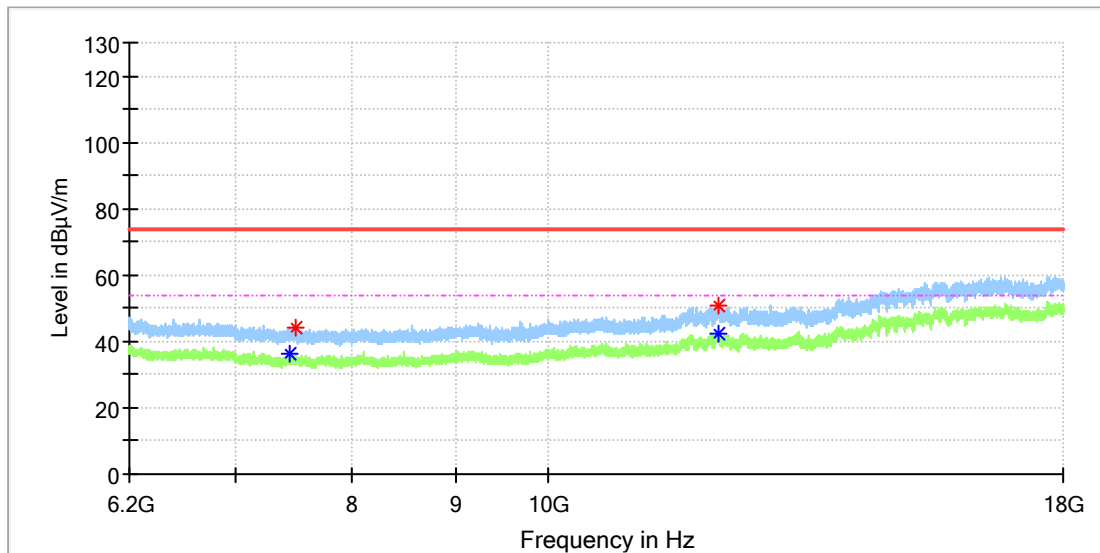
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4971.500000	51.94	---	74.00	22.06	150.0	V	282.0	13.3
4974.500000	---	41.62	54.00	12.38	150.0	V	213.0	13.3

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_High channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

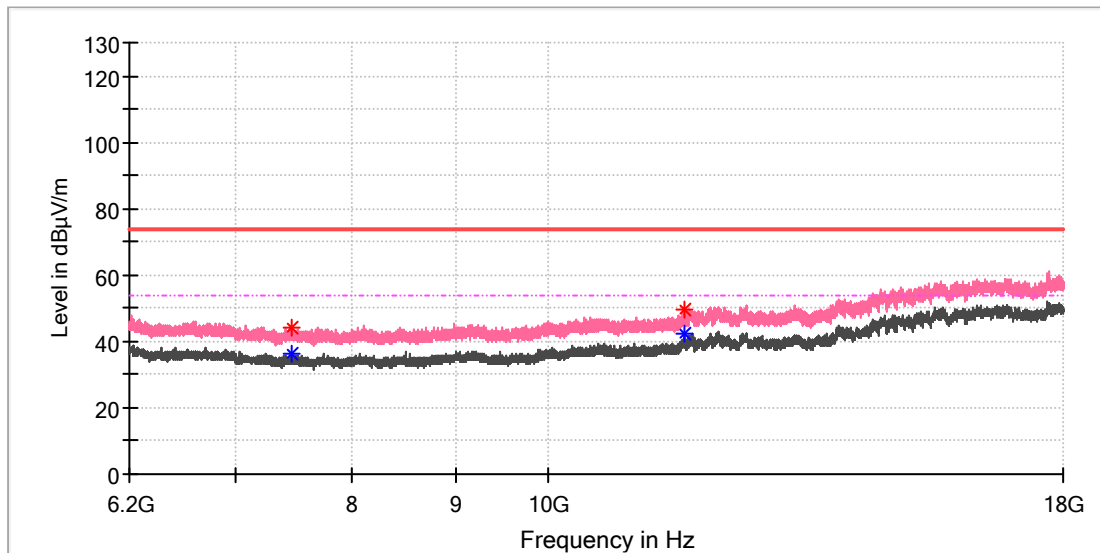
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	36.45	54.00	17.55	150.0	H	19.0	8.4
7490.133333	44.06	---	74.00	29.94	150.0	H	91.0	8.7
12136.383333	50.91	---	74.00	23.09	150.0	H	261.0	16.4
12149.658333	---	42.55	54.00	11.45	150.0	H	1.0	16.7

Final Result

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

EUT Information

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_High channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
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)
7458.175000	---	36.49	54.00	17.51	150.0	V	249.0	8.5
7461.125000	44.10	---	74.00	29.90	150.0	V	93.0	8.5
11672.250000	49.87	---	74.00	24.13	150.0	V	33.0	15.0
11672.250000	---	42.44	54.00	11.56	150.0	V	33.0	15.0

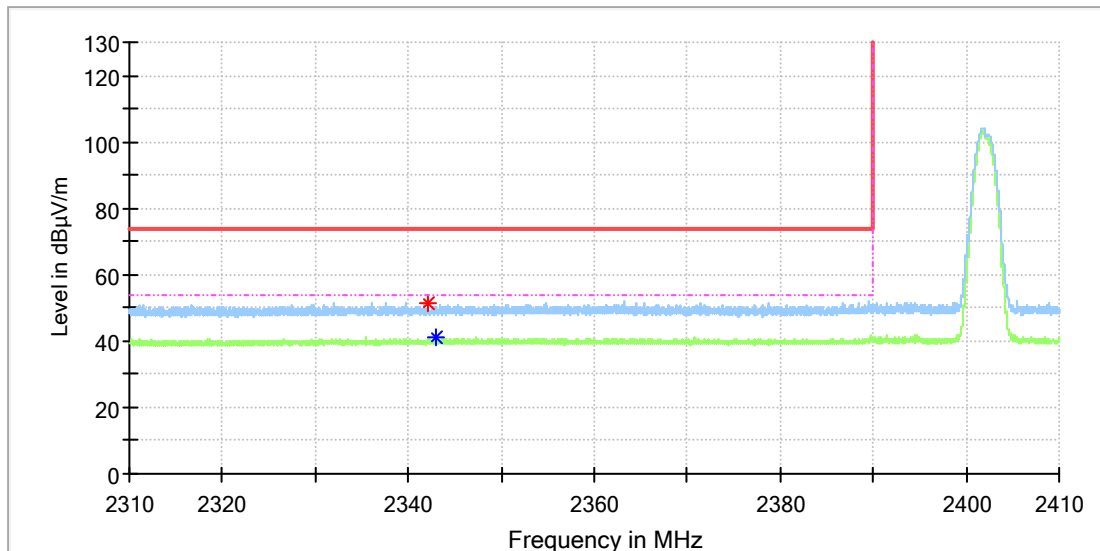
Final Result

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

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	WIFI+BT Module
Model:	DT3HR1601
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168518486/A003886577-011
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

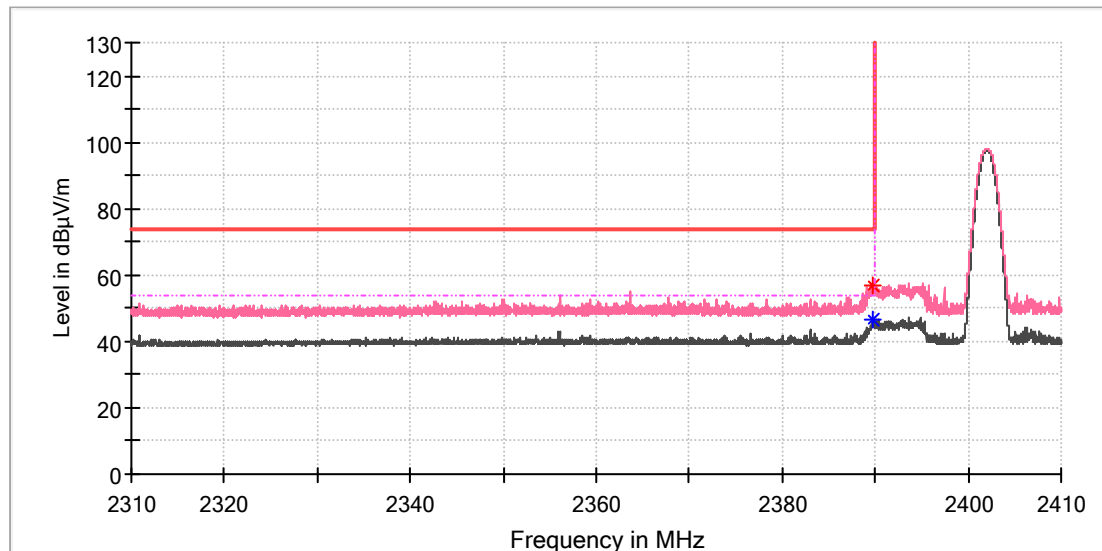
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2342.102941	51.34	---	74.00	22.66	150.0	H	38.0	8.4
2343.058824	---	40.84	54.00	13.16	150.0	H	6.0	8.4

Final_Result

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

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_Low channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

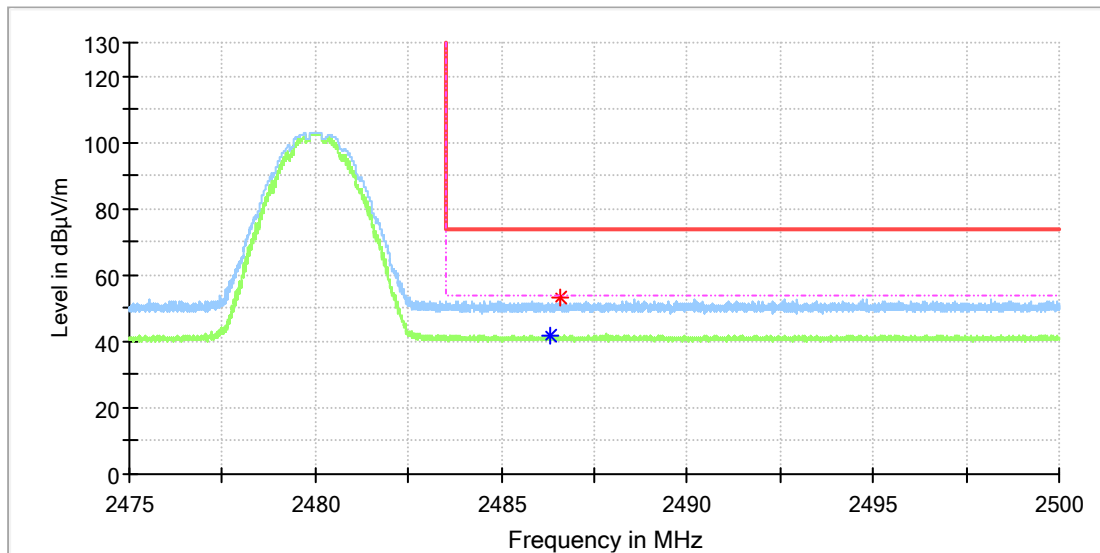
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.750000	---	46.28	54.00	7.72	150.0	V	261.0	8.5
2389.779412	56.84	---	74.00	17.16	150.0	V	261.0	8.5

Final Result

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

EUT Name: WIFI+BT Module
Model: DT3HR1601
Test Mode: BR_DH5_High channel
Order No/Sample No: 168518486/A003886577-011
Test Voltage: DC 3.3V
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

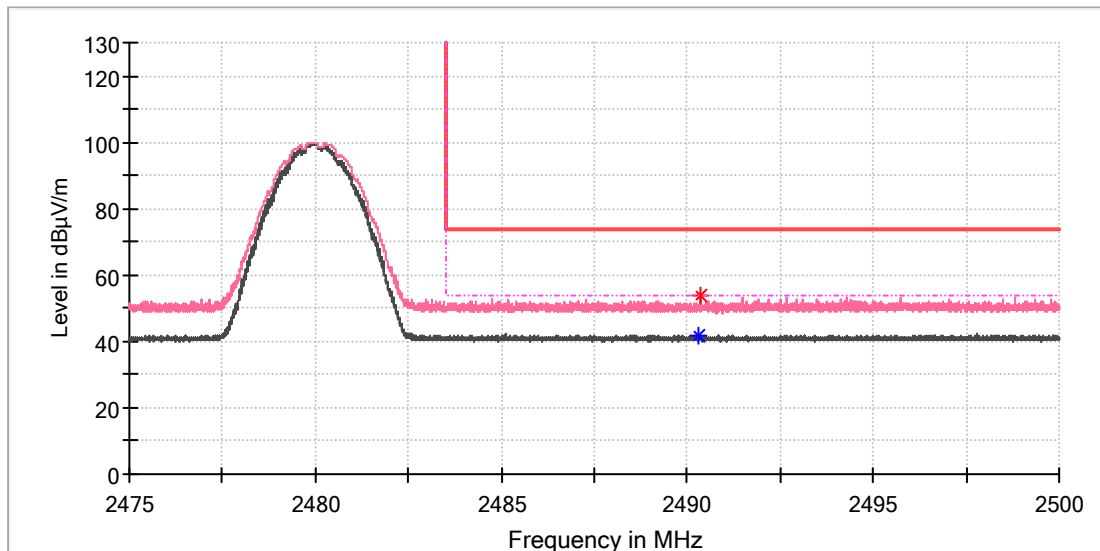
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.319853	---	41.92	54.00	12.08	150.0	H	48.0	9.0
2486.577206	53.28	---	74.00	20.72	150.0	H	7.0	9.0

Final Result

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

EUT Name:	WIFI+BT Module
Model:	DT3HR1601
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168518486/A003886577-011
Test Voltage:	DC 3.3V
Remark:	Temp 22 Humi:52%
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)
2490.327206	---	41.78	54.00	12.22	150.0	V	224.0	9.0
2490.341912	54.08	---	74.00	19.92	150.0	V	244.0	9.0

Final Result

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