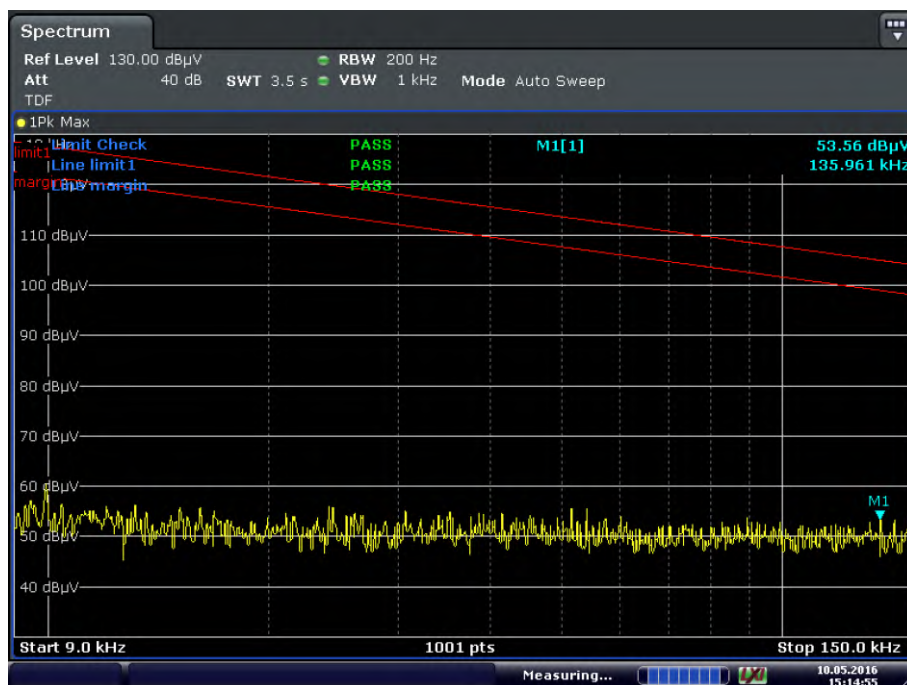
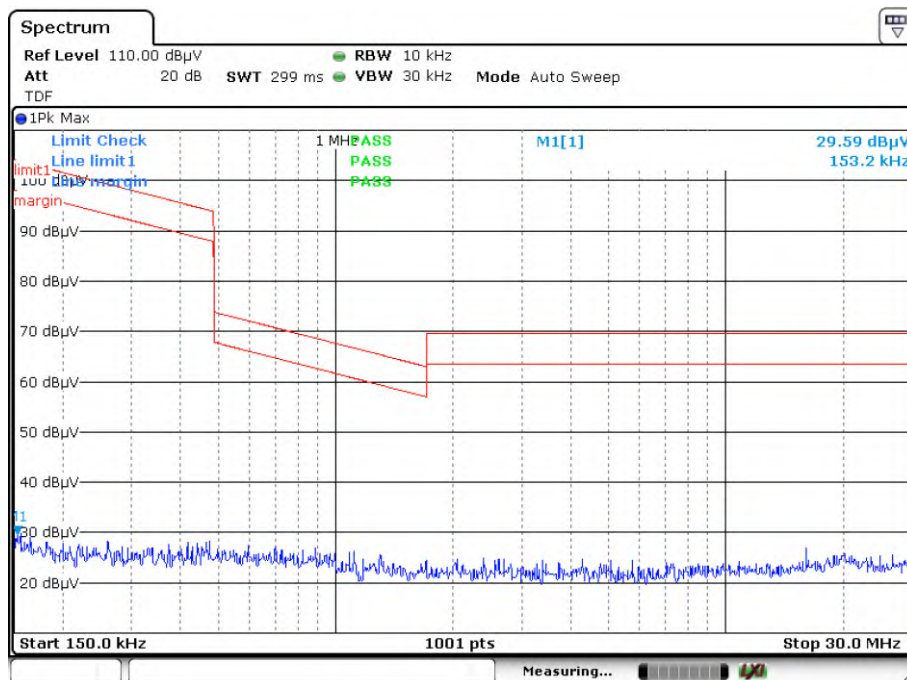
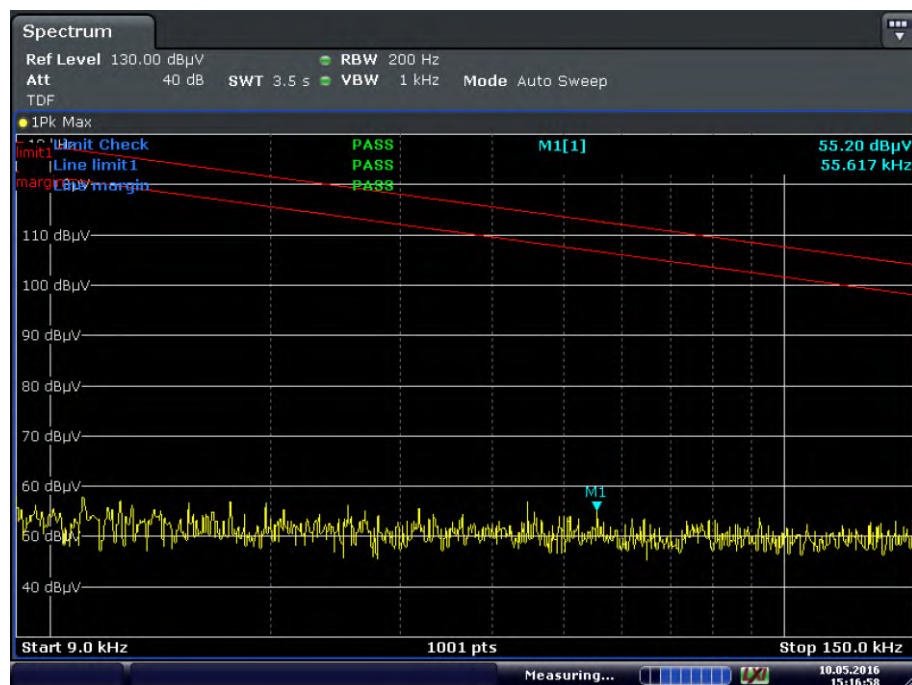
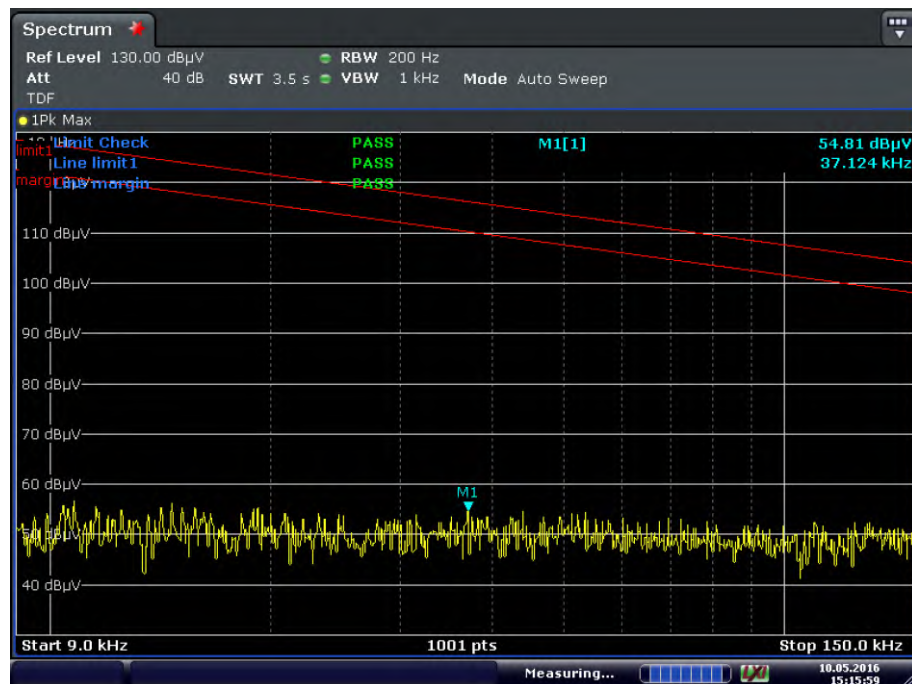






30MHz - 1GHz, BDR mode

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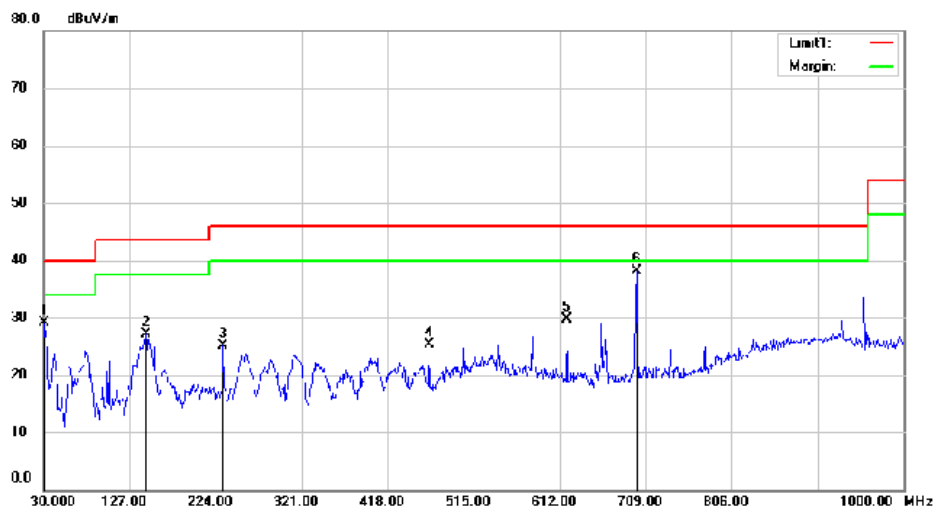


Radiated Emission Measurement

File :TUV

Data :#123

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		30.9700	45.15	-16.13	29.02	40.00	-10.98	QP		
2		145.4300	45.07	-17.95	27.12	43.50	-16.38	QP		
3		232.7300	39.76	-14.75	25.01	46.00	-20.99	QP		
4		464.5600	36.17	-10.95	25.22	46.00	-20.78	QP		
5		620.7300	36.47	-6.79	29.68	46.00	-16.32	QP		
6	*	699.3000	44.17	-5.99	38.18	46.00	-7.82	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#123

Page: 1

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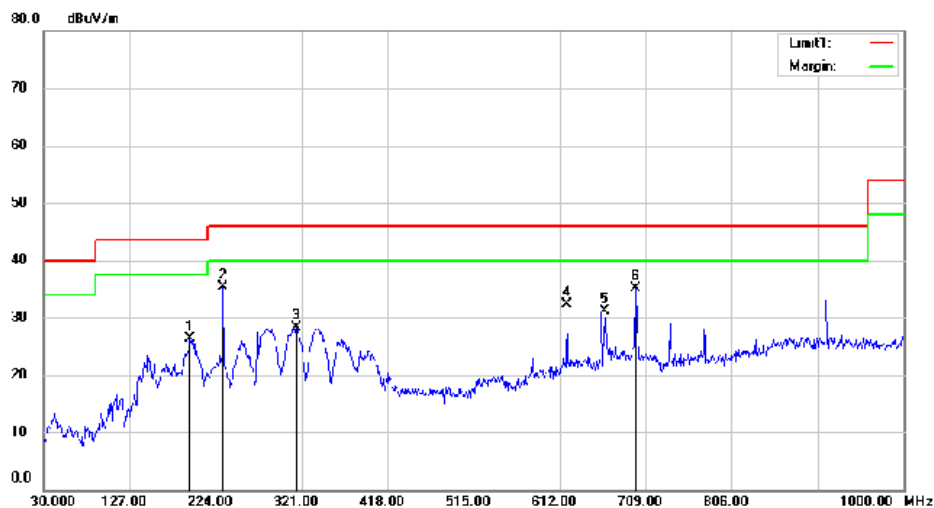


Radiated Emission Measurement

File :TUV

Data :#124

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		194.9000	43.06	-16.85	26.21	43.50	-17.29	QP		
2	*	231.7600	50.16	-14.88	35.28	46.00	-10.72	QP		
3		315.1800	41.87	-13.58	28.29	46.00	-17.71	QP		
4		620.7300	39.00	-6.79	32.21	46.00	-13.79	QP		
5		663.4100	37.38	-6.35	31.03	46.00	-14.97	QP		
6		697.3600	41.12	-6.00	35.12	46.00	-10.88	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#124

Page: 1

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Radiated Emission Measurement

File :TUV

Data :#125

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	231.7600	49.62	-14.88	34.74	46.00	-11.26	QP		
2		277.3500	40.08	-12.60	27.48	46.00	-18.52	QP		
3		335.5500	40.51	-12.70	27.81	46.00	-18.19	QP		
4		619.7600	38.94	-6.79	32.15	46.00	-13.85	QP		
5		697.3600	40.31	-6.00	34.31	46.00	-11.69	QP		
6		774.9600	34.24	-3.64	30.60	46.00	-15.40	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#125

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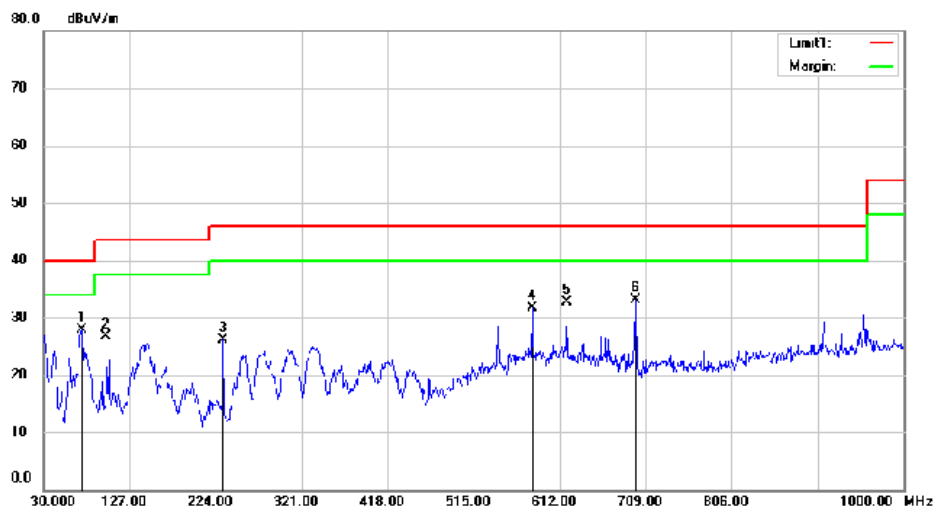


Radiated Emission Measurement

File :TUV

Data :#126

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	72.6800	46.89	-19.05	27.84	40.00	-12.16	QP		
2		100.8100	40.79	-14.02	26.77	43.50	-16.73	QP		
3		231.7600	41.01	-14.88	26.13	46.00	-19.87	QP		
4		580.9600	38.89	-7.15	31.74	46.00	-14.26	QP		
5		619.7600	39.52	-6.79	32.73	46.00	-13.27	QP		
6		697.3600	39.02	-6.00	33.02	46.00	-12.98	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#126

Page: 1

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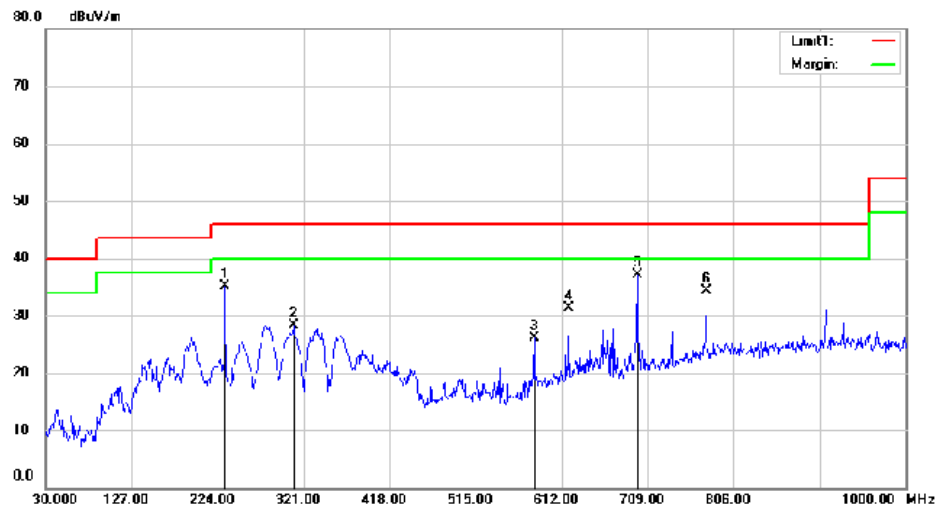


Radiated Emission Measurement

File :TUV

Data :#127

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		231.7600	49.95	-14.88	35.07	46.00	-10.93	QP		
2		309.3600	42.01	-13.68	28.33	46.00	-17.67	QP		
3		580.9600	33.17	-7.15	26.02	46.00	-19.98	QP		
4		619.7600	38.19	-6.79	31.40	46.00	-14.60	QP		
5	*	697.3600	43.05	-6.00	37.05	46.00	-8.95	QP		
6		774.9600	37.86	-3.64	34.22	46.00	-11.78	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#127

Page: 1

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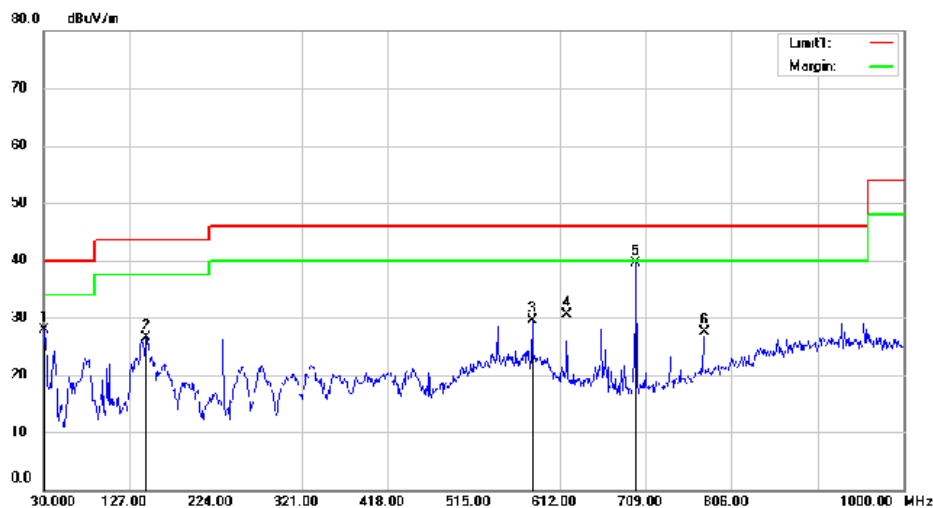


Radiated Emission Measurement

File :TUV

Data :#128

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.9700	44.04	-16.13	27.91	40.00	-12.09	QP		
2		145.4300	44.40	-17.95	26.45	43.50	-17.05	QP		
3		580.9600	36.66	-7.15	29.51	46.00	-16.49	QP		
4		619.7600	37.24	-6.79	30.45	46.00	-15.55	QP		
5	*	698.3300	45.47	-6.00	39.47	46.00	-6.53	QP		
6		774.9600	31.16	-3.64	27.52	46.00	-18.48	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#128

Page: 1

30MHz - 1GHz, Low Energy mode

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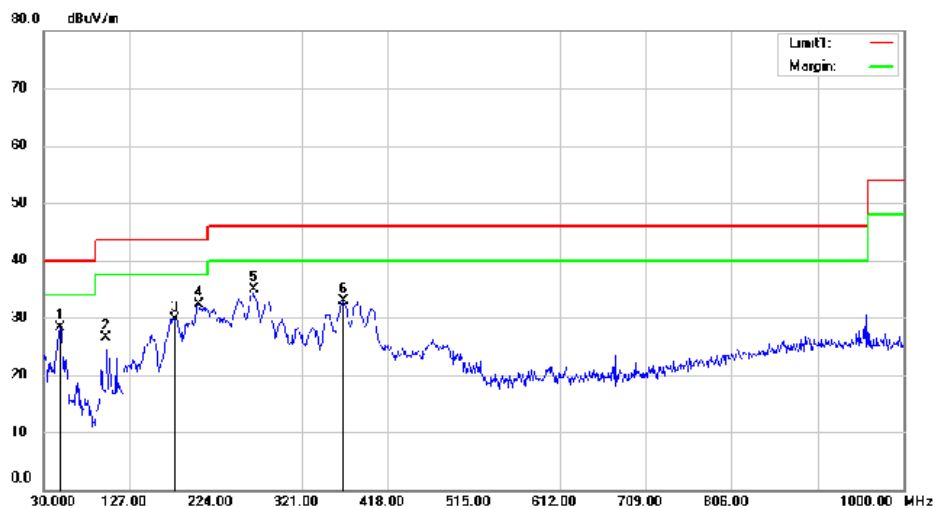


Radiated Emission Measurement

File :TUV

Data :#135

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		48.4300	42.79	-14.40	28.39	40.00	-11.61	QP		
2		100.8100	40.49	-14.02	26.47	43.50	-17.03	QP		
3		177.4400	48.87	-19.09	29.78	43.50	-13.72	QP		
4		204.6000	48.77	-16.40	32.37	43.50	-11.13	QP		
5	*	266.6800	47.63	-12.72	34.91	46.00	-11.09	QP		
6		367.5600	43.34	-10.46	32.88	46.00	-13.12	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#135

Page: 1

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Radiated Emission Measurement

File :TUV

Data :#136

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0000	50.21	-16.46	33.75	40.00	-6.25	QP		
2		126.0300	46.78	-16.89	29.89	43.50	-13.61	QP		
3		174.5300	51.30	-19.22	32.08	43.50	-11.42	QP		
4		267.6500	43.68	-12.71	30.97	46.00	-15.03	QP		
5		280.2600	42.39	-12.59	29.80	46.00	-16.20	QP		
6		400.5400	38.96	-8.89	30.07	46.00	-15.93	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#136

Page: 1

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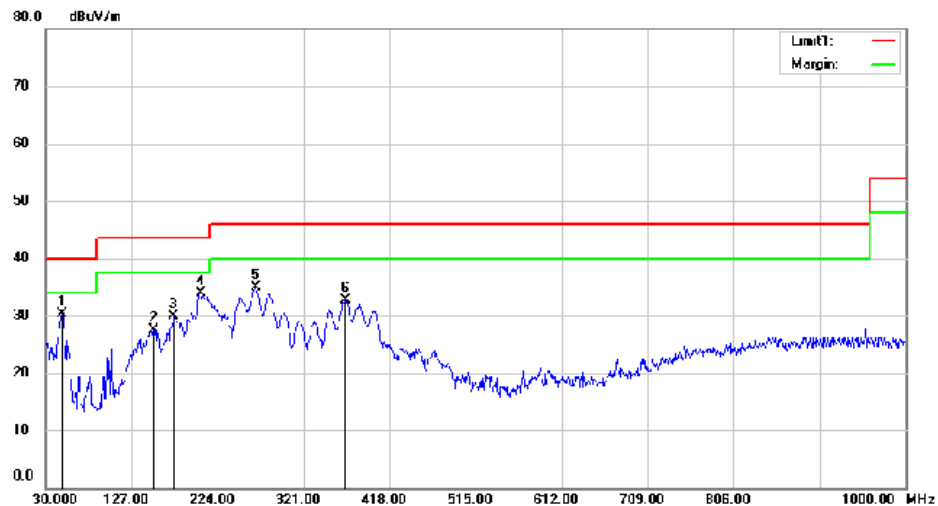


Radiated Emission Measurement

File :TUV

Data :#137

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		48.4300	44.74	-14.40	30.34	40.00	-9.66	QP		
2		152.2200	45.74	-18.24	27.50	43.50	-16.00	QP		
3		174.5300	49.21	-19.22	29.99	43.50	-13.51	QP		
4	*	204.6000	50.38	-16.40	33.98	43.50	-9.52	QP		
5		266.6800	47.63	-12.72	34.91	46.00	-11.09	QP		
6		368.5300	43.08	-10.42	32.66	46.00	-13.34	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#137

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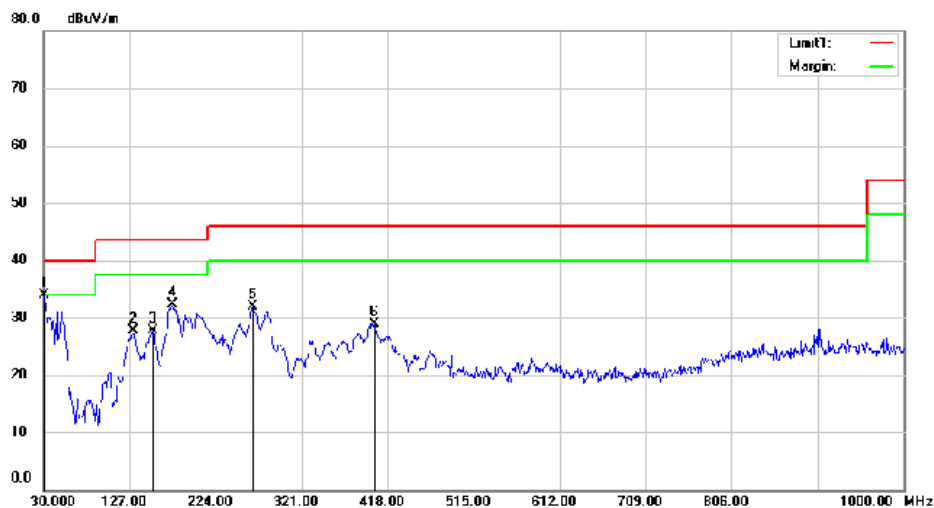
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Radiated Emission Measurement

File :TUV

Data :#138

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0000	50.28	-16.46	33.82	40.00	-6.18	QP		
2		131.8500	44.97	-17.36	27.61	43.50	-15.89	QP		
3		153.1900	45.93	-18.29	27.64	43.50	-15.86	QP		
4		175.5000	51.57	-19.17	32.40	43.50	-11.10	QP		
5		265.7100	44.58	-12.73	31.85	46.00	-14.15	QP		
6		402.4800	37.82	-8.93	28.89	46.00	-17.11	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#138

Page: 1

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Radiated Emission Measurement

File :TUV

Data :#139

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	48.4300	45.04	-14.40	30.64	40.00	-9.36	QP		
2		100.8100	39.50	-14.02	25.48	43.50	-18.02	QP		
3		204.6000	49.56	-16.40	33.16	43.50	-10.34	QP		
4		266.6800	47.18	-12.72	34.46	46.00	-11.54	QP		
5		368.5300	42.54	-10.42	32.12	46.00	-13.88	QP		
6		667.2900	33.16	-6.30	26.86	46.00	-19.14	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#139

Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.9700	50.21	-16.13	34.08	40.00	-5.92	QP		
2		103.7200	43.64	-14.07	29.57	43.50	-13.93	QP		
3		130.8800	46.42	-17.30	29.12	43.50	-14.38	QP		
4		178.4100	50.43	-19.03	31.40	43.50	-12.10	QP		
5		266.6800	44.12	-12.72	31.40	46.00	-14.60	QP		
6		401.5100	38.64	-8.92	29.72	46.00	-16.28	QP		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#140

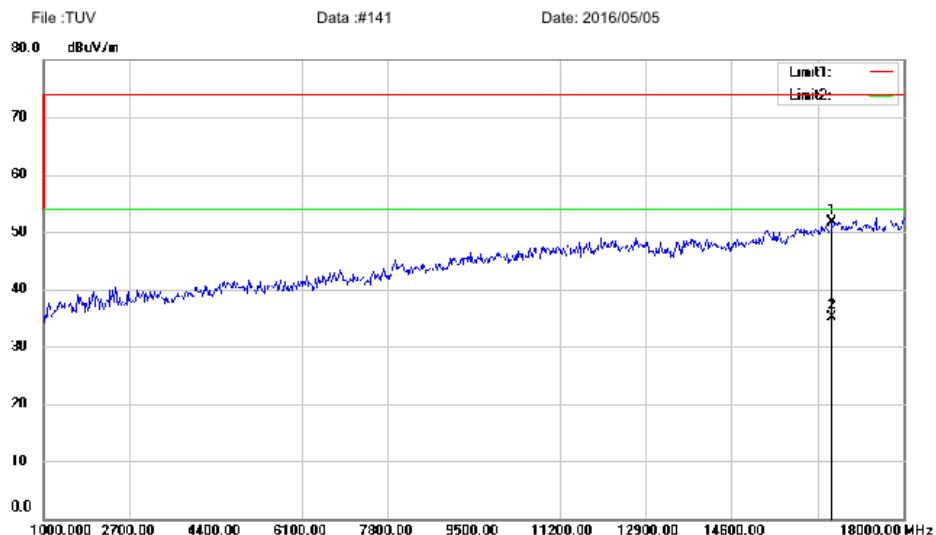
Page: 1

1GHz - 18GHz, BDR mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16589.00	49.12	2.67	51.79	74.00	-22.21	peak		
2	*	16589.00	32.53	2.67	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#141

Page: 1

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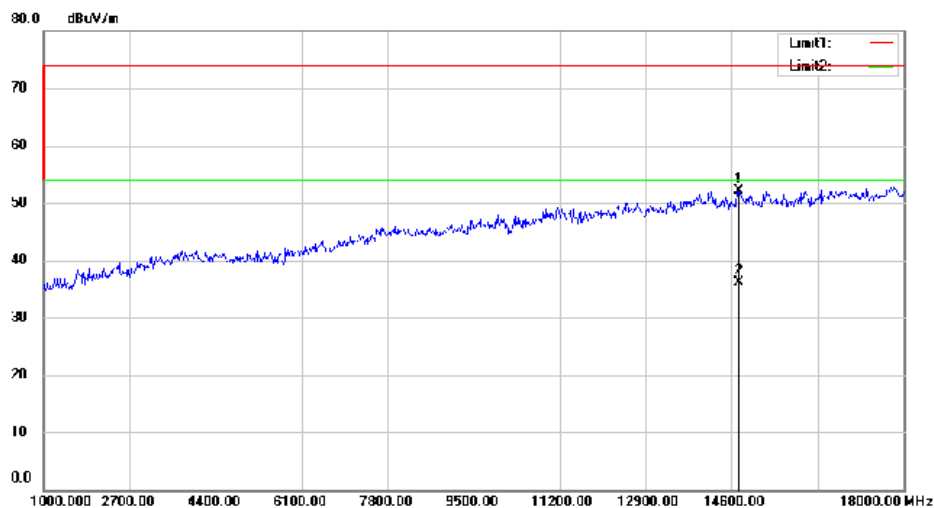


Radiated Emission Measurement

File :TUV

Data :#142

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		14736.00	48.08	4.09	52.17	74.00	-21.83	peak		
2	*	14736.00	32.11	4.09	36.20	54.00	-17.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#142

Page: 1

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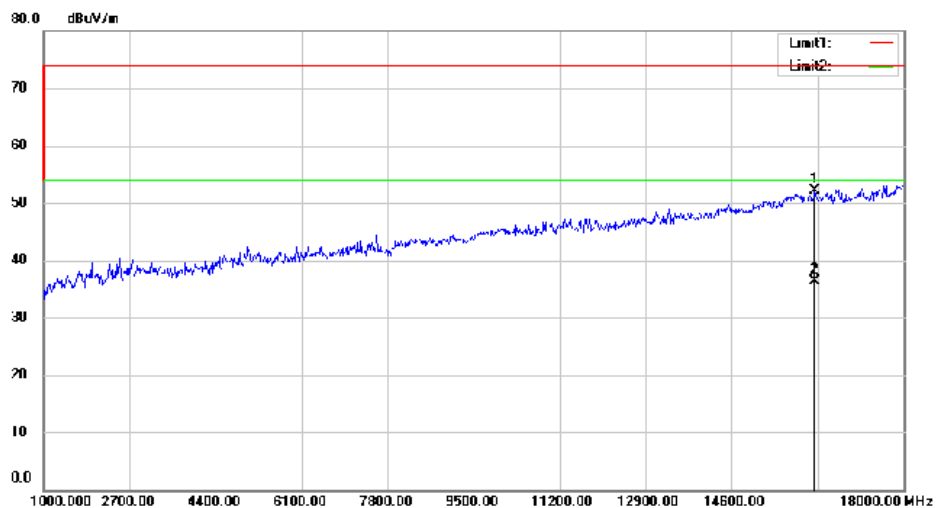


Radiated Emission Measurement

File :TUV

Data :#143

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16232.00	51.06	1.13	52.19	74.00	-21.81	peak		
2	*	16232.00	35.27	1.13	36.40	54.00	-17.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

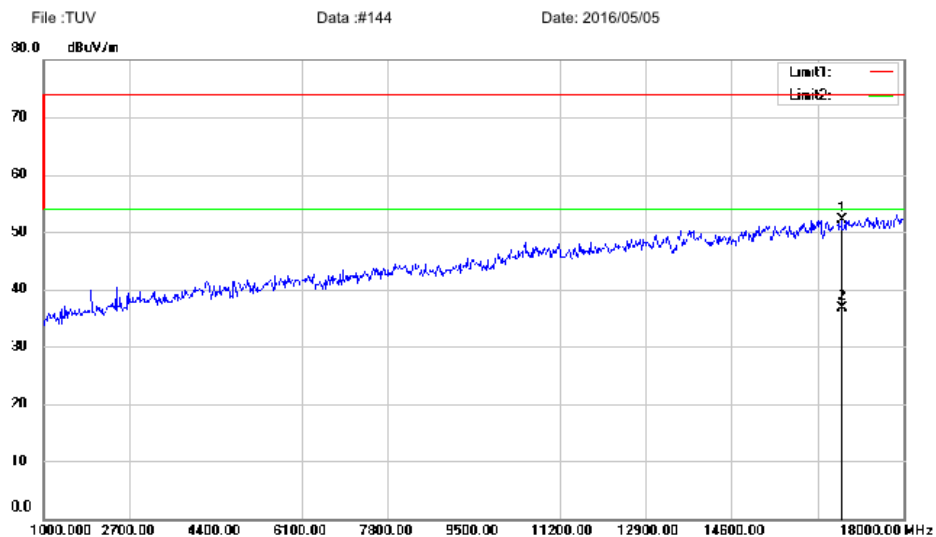
File :TUVData :#143

Page: 1

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2441

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16776.00	48.58	3.46	52.04	74.00	-21.96	peak		
2	*	16776.00	33.24	3.46	36.70	54.00	-17.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#144

Page: 1

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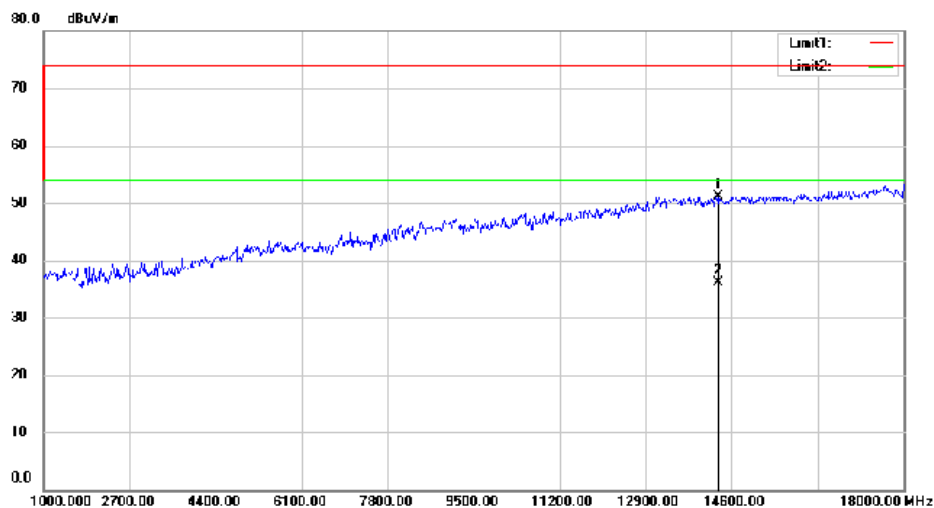


Radiated Emission Measurement

File :TUV

Data :#145

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		14328.00	47.78	3.40	51.18	74.00	-22.82	peak		
2	*	14328.00	32.80	3.40	36.20	54.00	-17.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

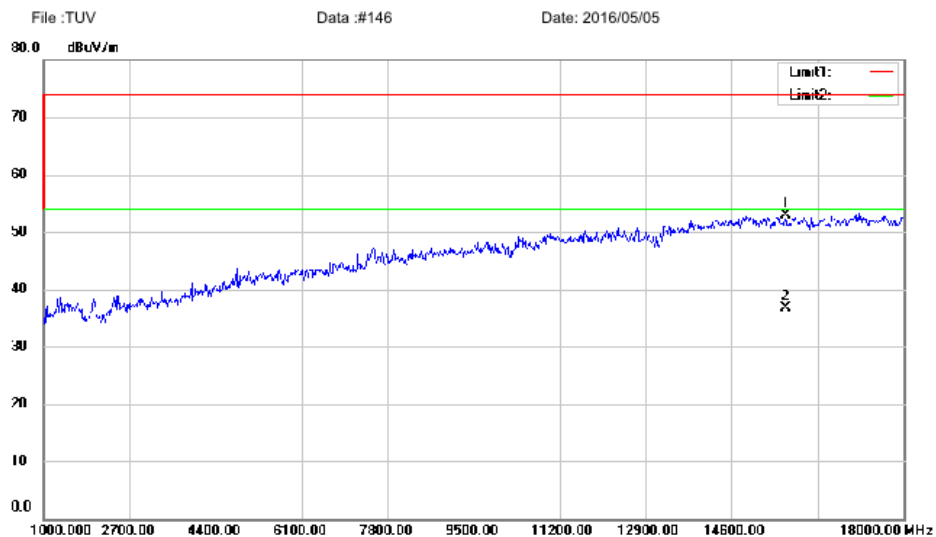
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		15671.00	53.06	-0.07	52.99	74.00	-21.01	peak		
2	*	15671.00	36.77	-0.07	36.70	54.00	-17.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#146

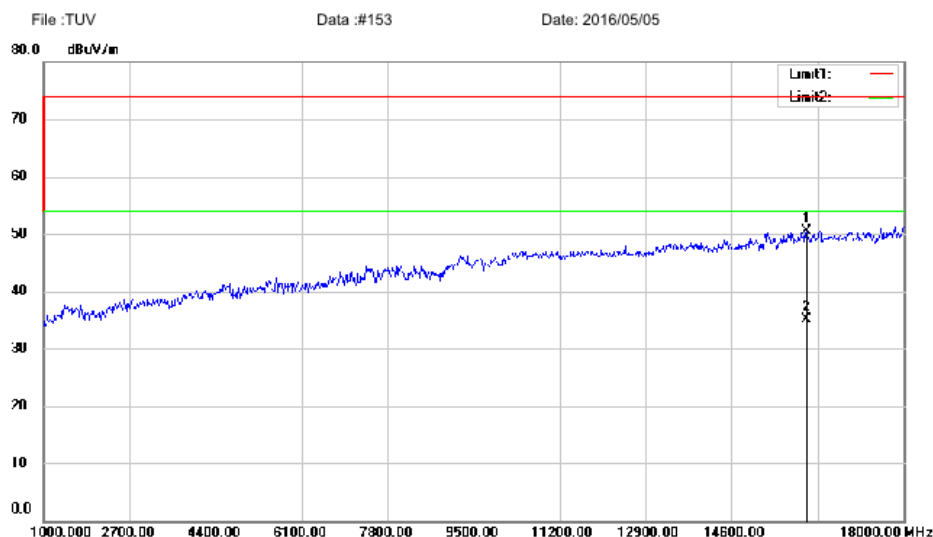
Page: 1

1GHz - 18GHz, Low Energy mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16079.00	50.01	0.47	50.48	74.00	-23.52	peak		
2	*	16079.00	34.73	0.47	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

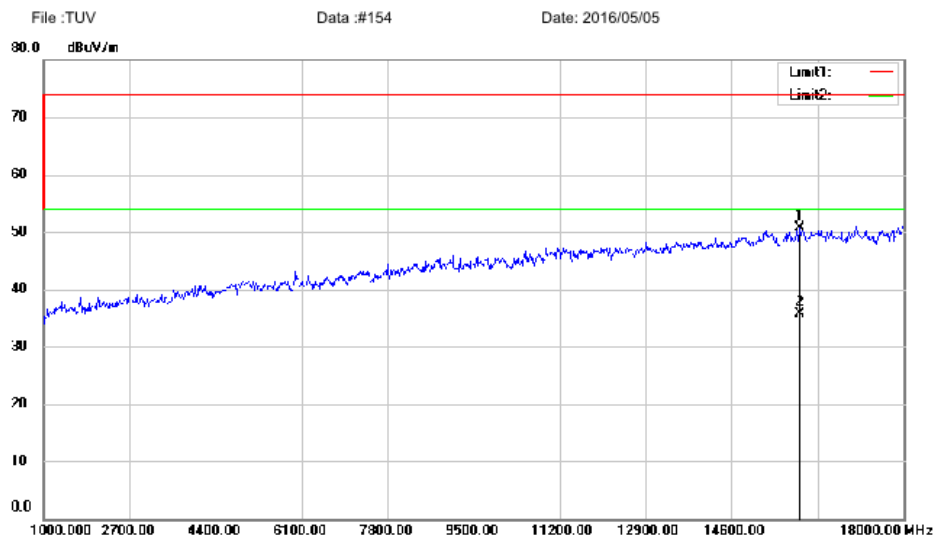
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		15943.00	50.40	0.35	50.75	74.00	-23.25	peak		
2	*	15943.00	35.35	0.35	35.70	54.00	-18.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: XLX

File :TUVData :#154

Page: 1

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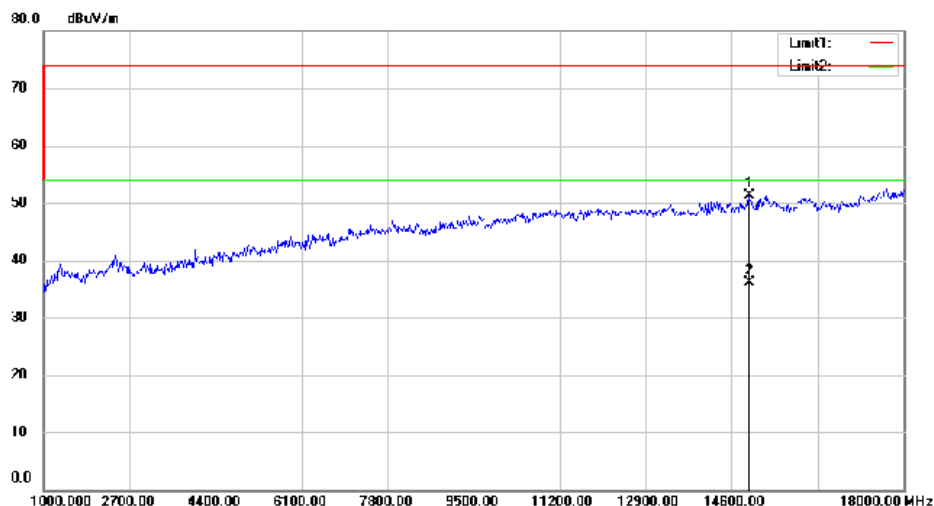


Radiated Emission Measurement

File :TUV

Data :#155

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		14940.00	49.58	1.82	51.40	74.00	-22.60	peak		
2	*	14940.00	34.38	1.82	36.20	54.00	-17.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#155

Page: 1

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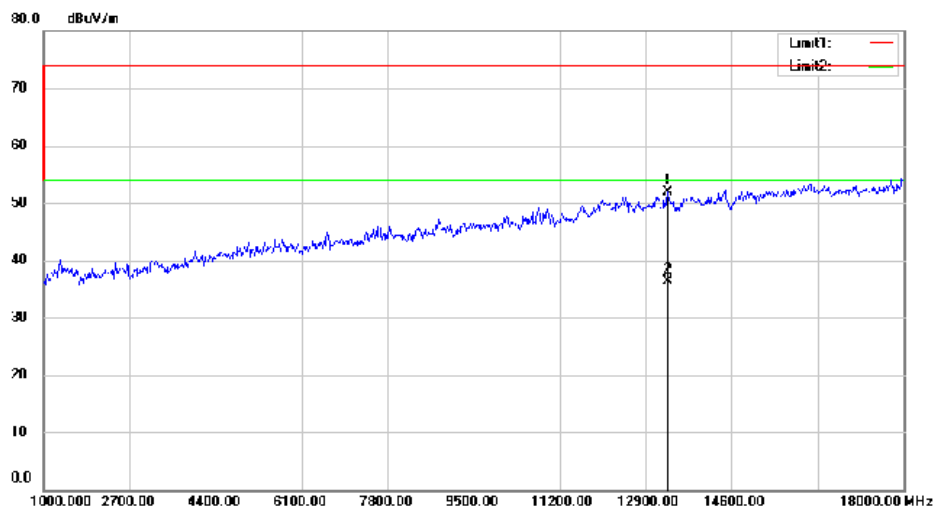


Radiated Emission Measurement

File :TUV

Data :#156

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		13342.00	52.29	-0.31	51.98	74.00	-22.02	peak		
2	*	13342.00	36.71	-0.31	36.40	54.00	-17.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#156

Page: 1

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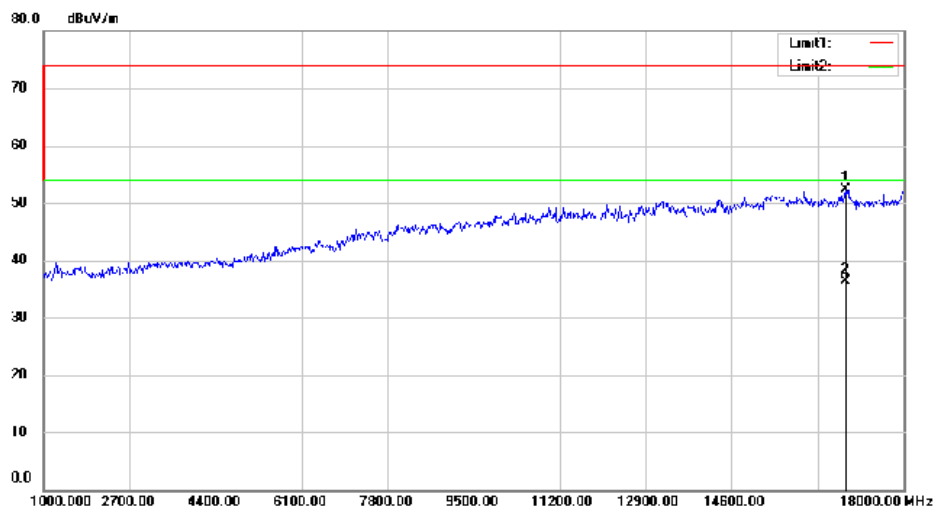


Radiated Emission Measurement

File :TUV

Data :#157

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		16844.00	50.07	2.20	52.27	74.00	-21.73	peak		
2	*	16844.00	34.20	2.20	36.40	54.00	-17.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#157

Page: 1

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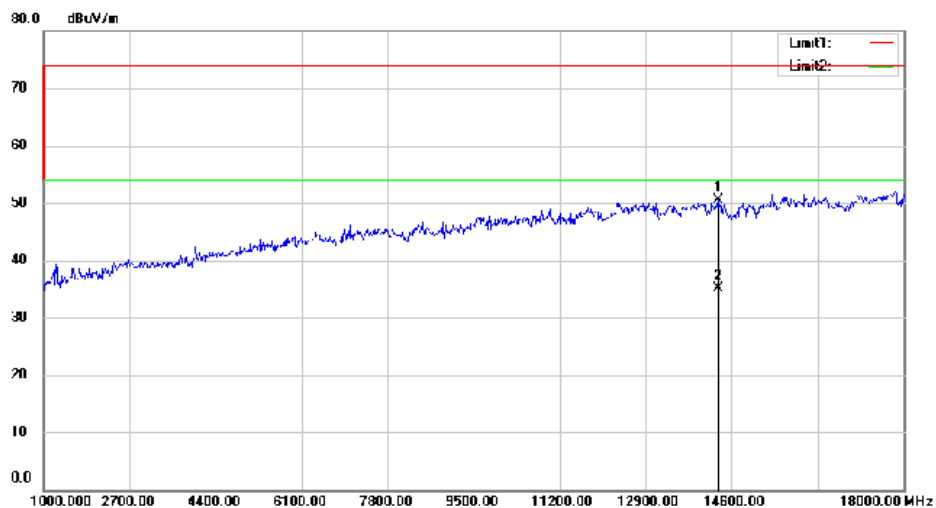


Radiated Emission Measurement

File :TUV

Data :#158

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		14328.00	47.16	3.40	50.56	74.00	-23.44	peak		
2	*	14328.00	31.80	3.40	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator:

File :TUVData :#158

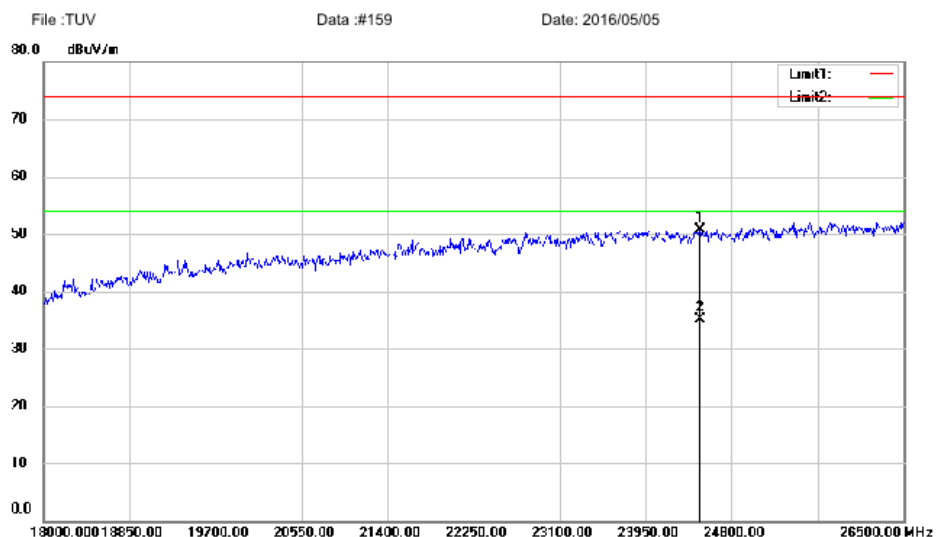
Page: 1

18GHz - 26.5GHz, BDR mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		24485.50	87.79	-37.07	50.72	74.00	-23.28	peak		
2	*	24485.50	72.27	-37.07	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

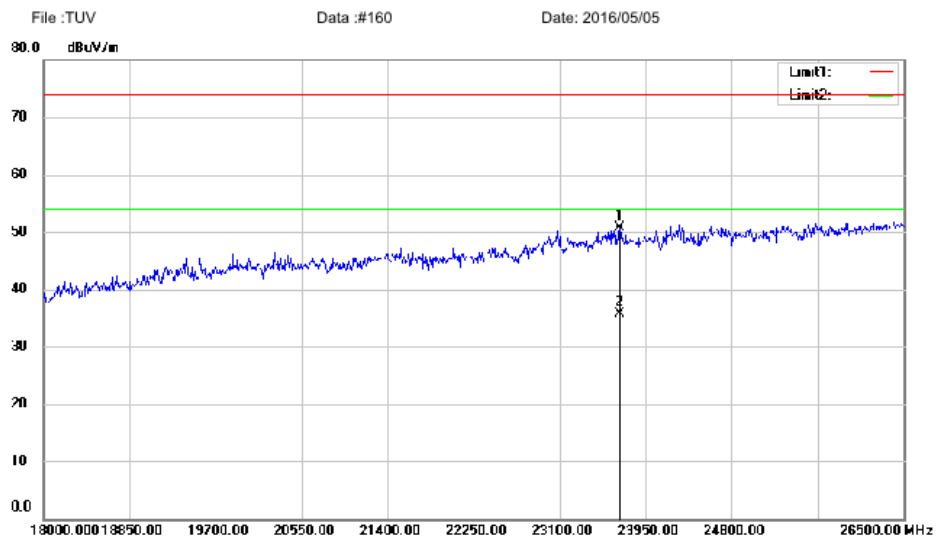
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		23695.00	88.15	-37.45	50.70	74.00	-23.30	peak		
2	*	23695.00	73.15	-37.45	35.70	54.00	-18.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

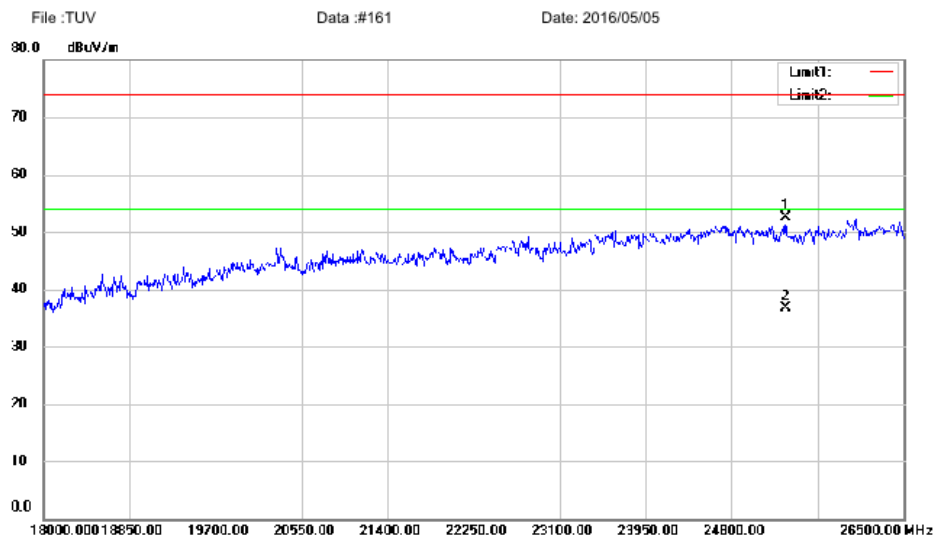
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Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25335.50	89.20	-36.60	52.60	74.00	-21.40	peak		
2	*	25335.50	73.30	-36.60	36.70	54.00	-17.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

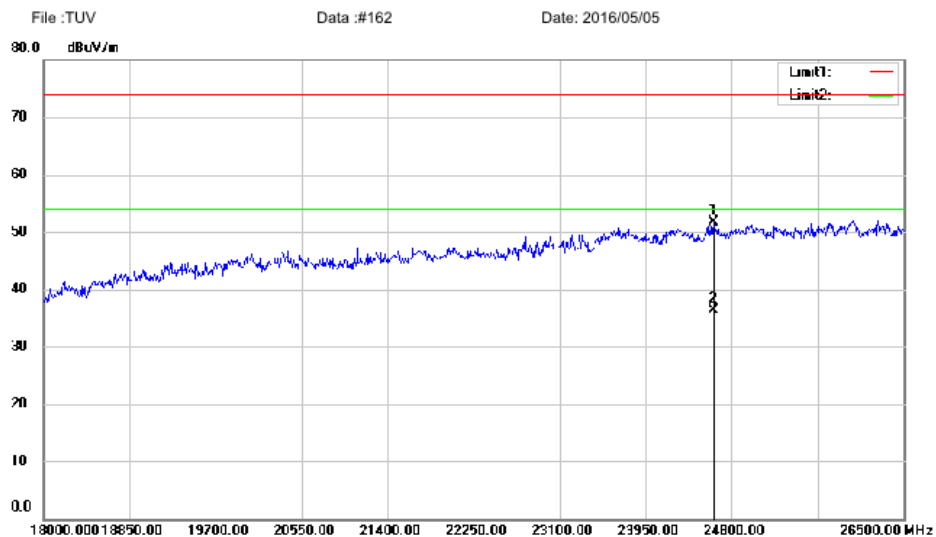
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Page: 1

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		24621.50	88.69	-37.06	51.63	74.00	-22.37	peak		
2	*	24621.50	73.46	-37.06	36.40	54.00	-17.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#162

Page: 1

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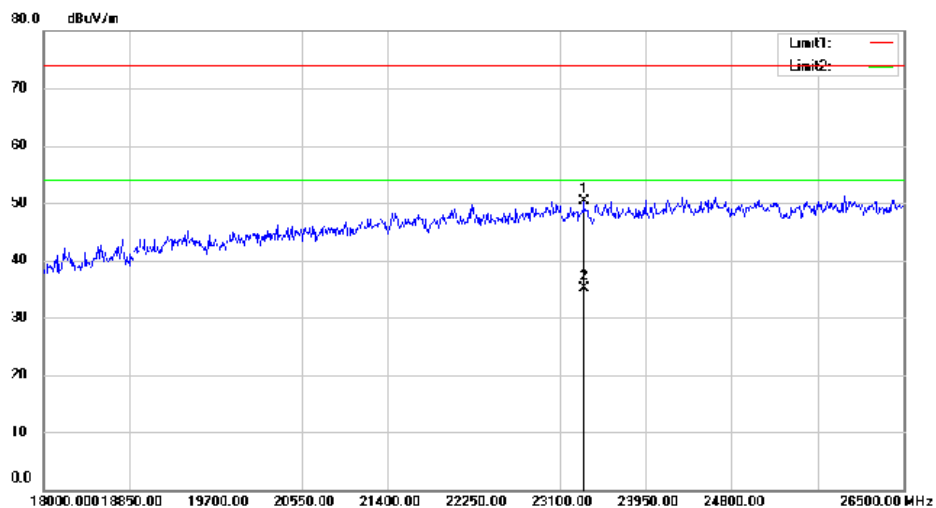


Radiated Emission Measurement

File :TUV

Data :#163

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		23338.00	88.06	-37.83	50.23	74.00	-23.77	peak		
2	*	23338.00	73.03	-37.83	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#163

Page: 1

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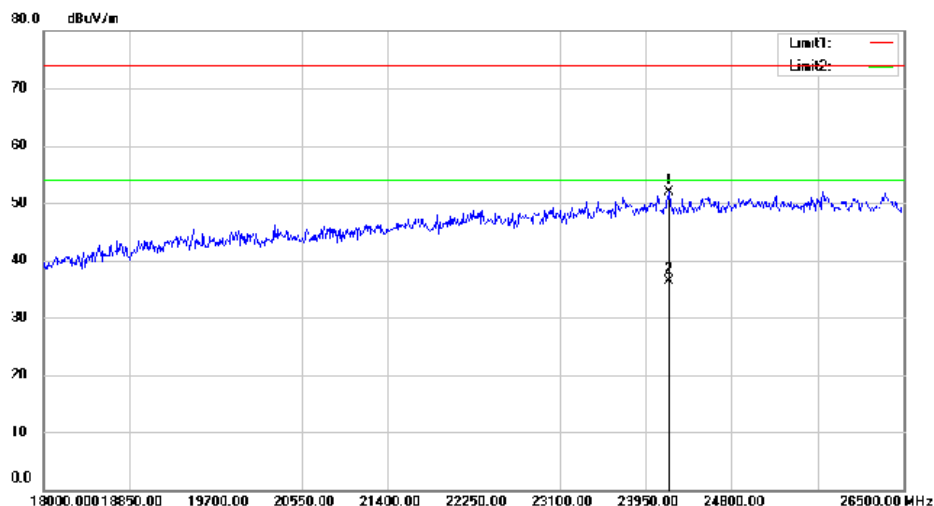


Radiated Emission Measurement

File :TUV

Data :#164

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		24179.50	88.96	-37.11	51.85	74.00	-22.15	peak		
2	*	24179.50	73.51	-37.11	36.40	54.00	-17.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#164

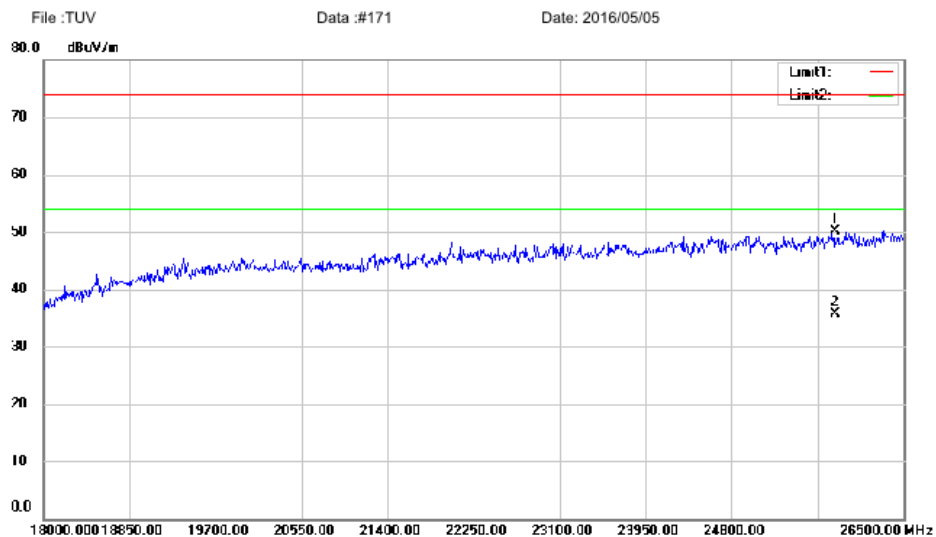
Page: 1

18GHz - 26.5GHz, Low Energy mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		25820.00	86.21	-36.01	50.20	74.00	-23.80	peak		
2	*	25820.00	71.71	-36.01	35.70	54.00	-18.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#171

Page: 1

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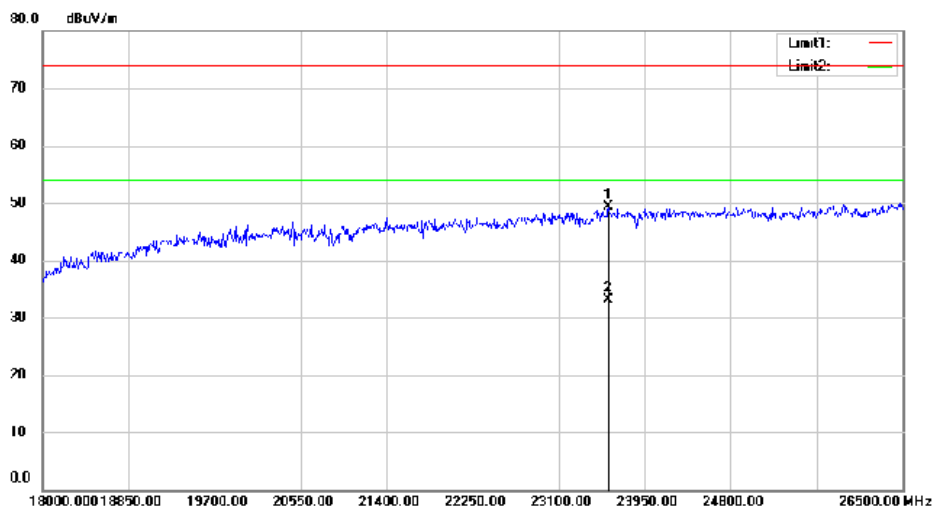


Radiated Emission Measurement

File :TUV

Data :#172

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		23593.00	86.92	-37.56	49.36	74.00	-24.64	peak		
2	*	23593.00	70.76	-37.56	33.20	54.00	-20.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#172

Page: 1

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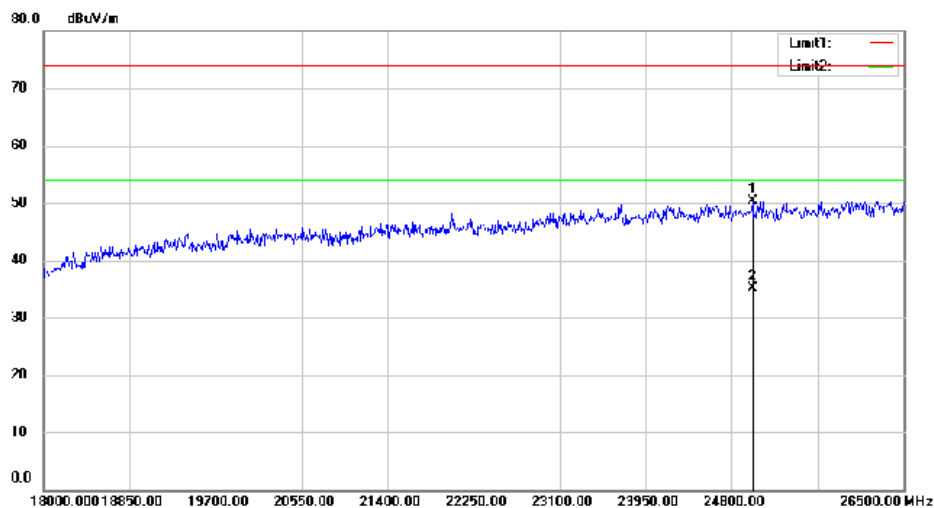


Radiated Emission Measurement

File :TUV

Data :#173

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2440

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		25004.00	87.34	-37.01	50.33	74.00	-23.67	peak		
2	*	25004.00	72.21	-37.01	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

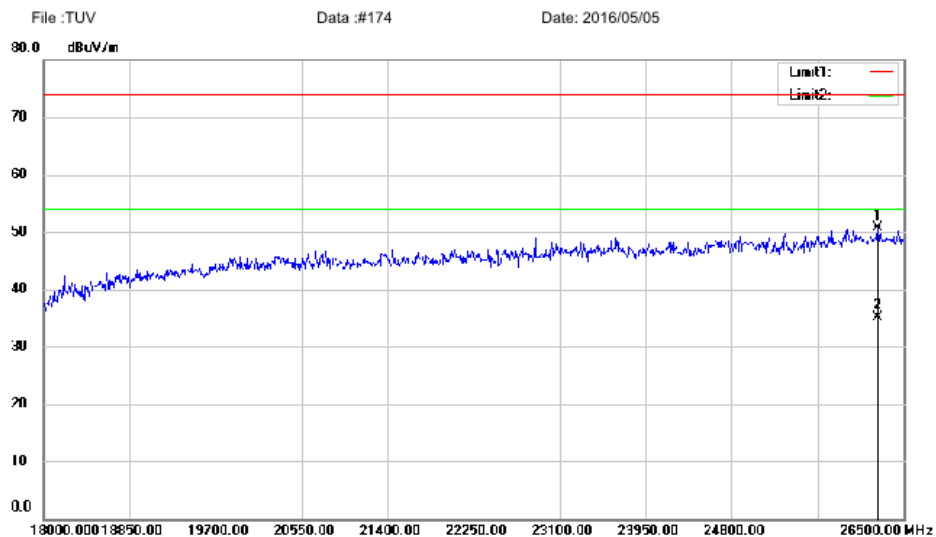
File :TUVData :#173

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		26245.00	86.26	-35.49	50.77	74.00	-23.23	peak		
2	*	26245.00	70.69	-35.49	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#174

Page: 1

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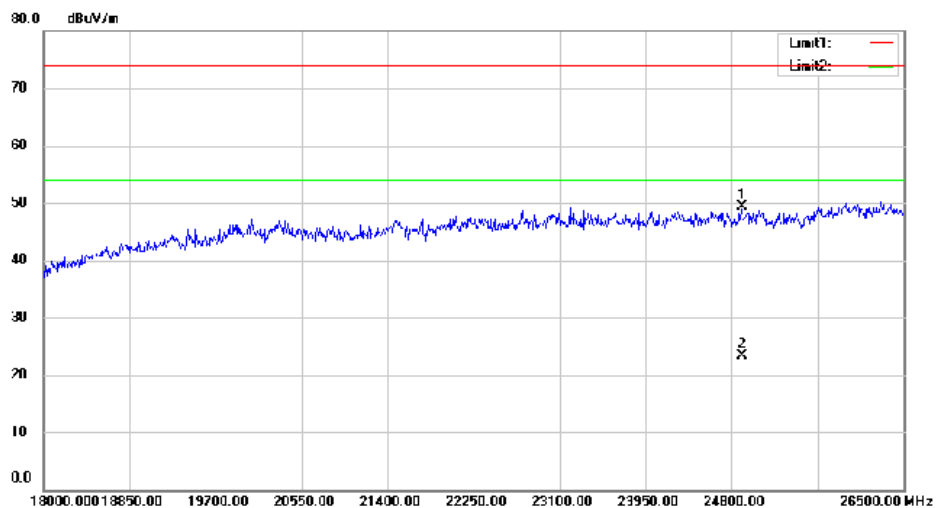


Radiated Emission Measurement

File :TUV

Data :#175

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	24902.00	86.35	-37.02	49.33	74.00	-24.67	peak		
2		24902.00	60.42	-37.02	23.40	54.00	-30.60	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#175

Page: 1

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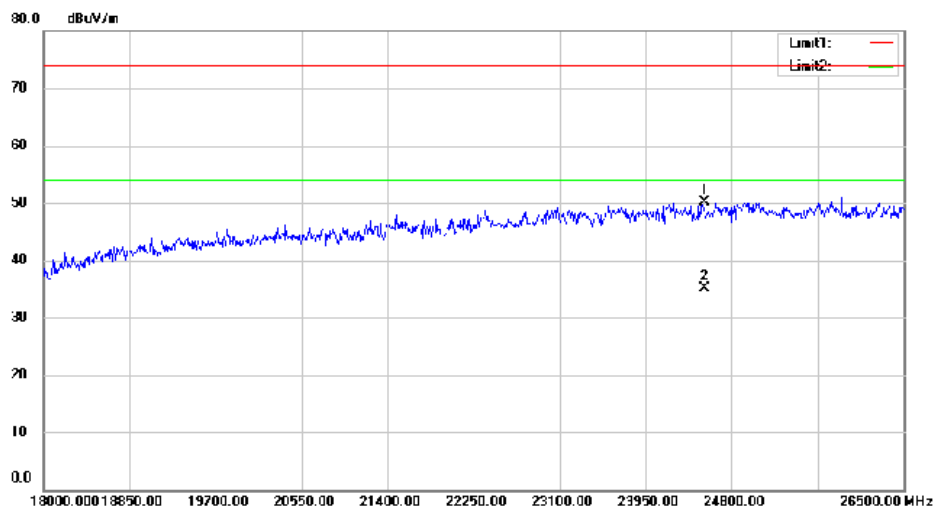


Radiated Emission Measurement

File :TUV

Data :#176

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		24528.00	87.15	-37.07	50.08	74.00	-23.92	peak		
2	*	24528.00	72.27	-37.07	35.20	54.00	-18.80	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#176

Page: 1

Appendix B.2: Test Plots of Band Edge (Radiated)

Low Channel, BDR mode

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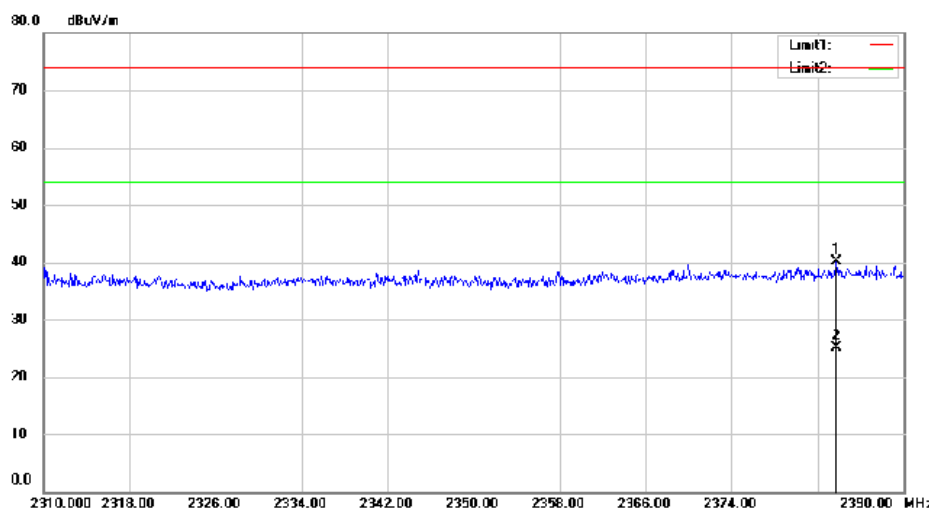


Radiated Emission Measurement

File :TUV

Data :#177

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2383.760	64.17	-23.98	40.19	74.00	-33.81	peak		
2	*	2383.760	49.08	-23.98	25.10	54.00	-28.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#177

Page: 1

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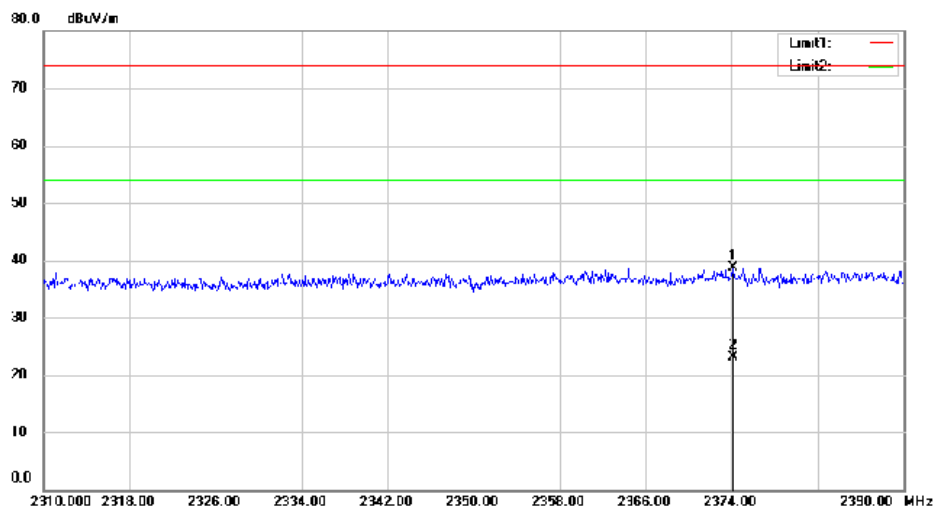


Radiated Emission Measurement

File :TUV

Data :#178

Date: 2016/05/05



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:GFSK 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2374.160	62.83	-24.03	38.80	74.00	-35.20	peak		
2	*	2374.160	47.13	-24.03	23.10	54.00	-30.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#178

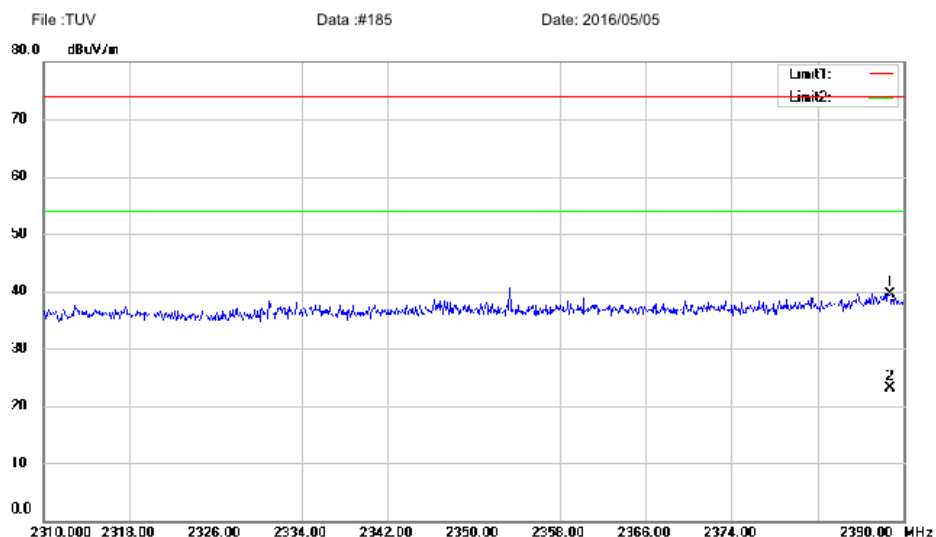
Page: 1

Low Channel, Low Energy mode

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Radiated Emission Measurement



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
Limit: (RE)RSS-247 Power: AC 120V/60Hz Humidity: 53 %
EUT: Bluetooth Protable Speaker
M/N: BTS11-E
Mode:BLE 2402
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2388.720	63.53	-23.95	39.58	74.00	-34.42	peak		
2	*	2388.720	47.05	-23.95	23.10	54.00	-30.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

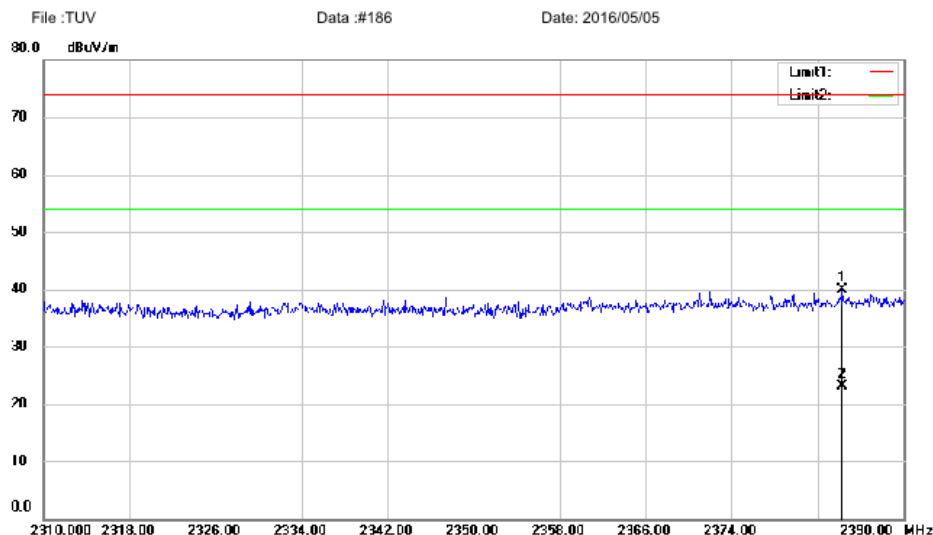
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Page: 1

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2402

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2384.320	63.89	-23.97	39.92	74.00	-34.08	peak		
2	*	2384.320	47.07	-23.97	23.10	54.00	-30.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#186

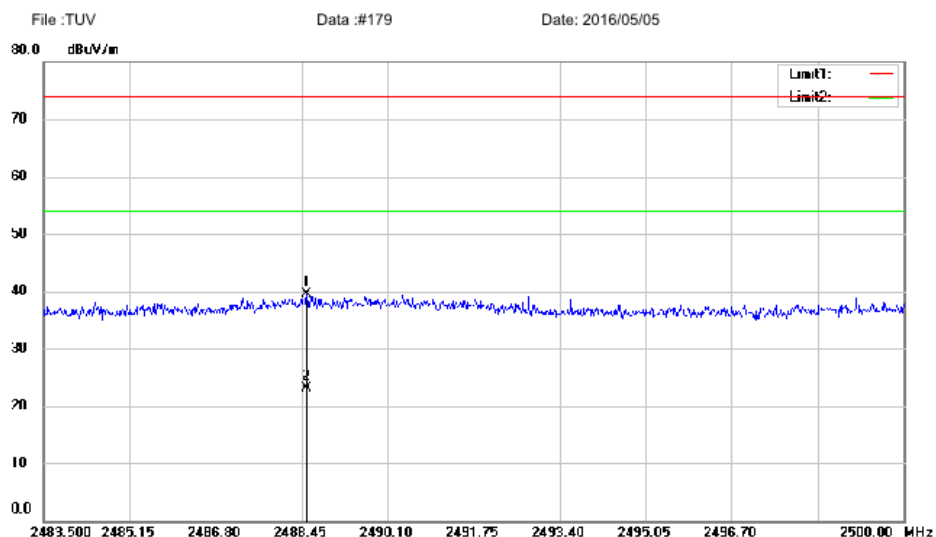
Page: 1

High Channel, BDR mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2488.549	62.88	-23.40	39.48	74.00	-34.52	peak		
2	*	2488.549	46.50	-23.40	23.10	54.00	-30.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

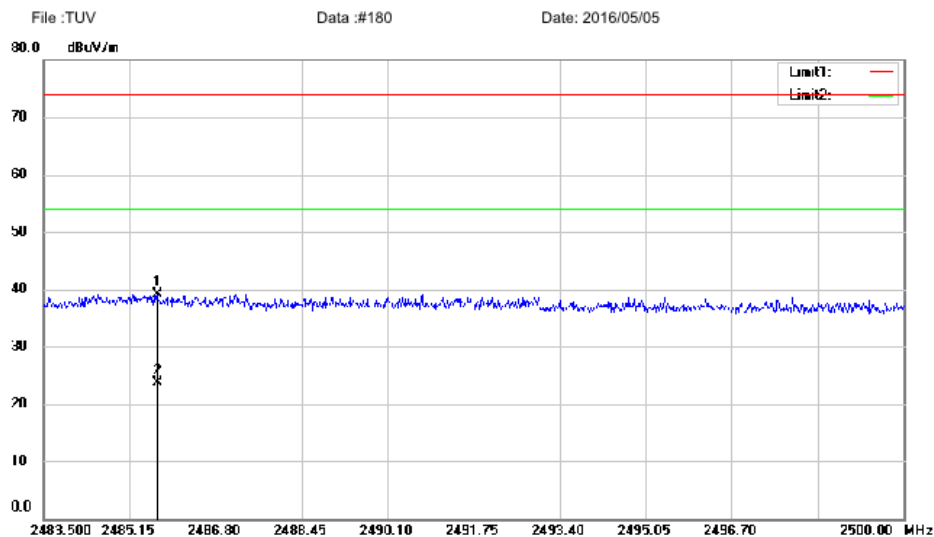
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Page: 1

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:GFSK 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree Comment
1		2485.678	62.52	-23.43	39.09	74.00	-34.91	peak		
2	*	2485.678	47.13	-23.43	23.70	54.00	-30.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

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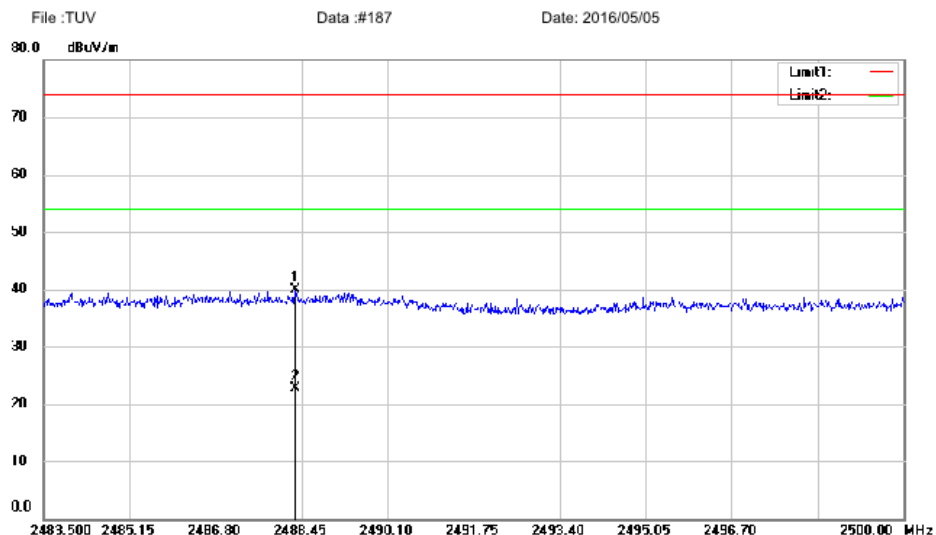
Page: 1

High Channel, Low Energy mode

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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2488.334	63.22	-23.40	39.82	74.00	-34.18	peak		
2	*	2488.334	46.10	-23.40	22.70	54.00	-31.30	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

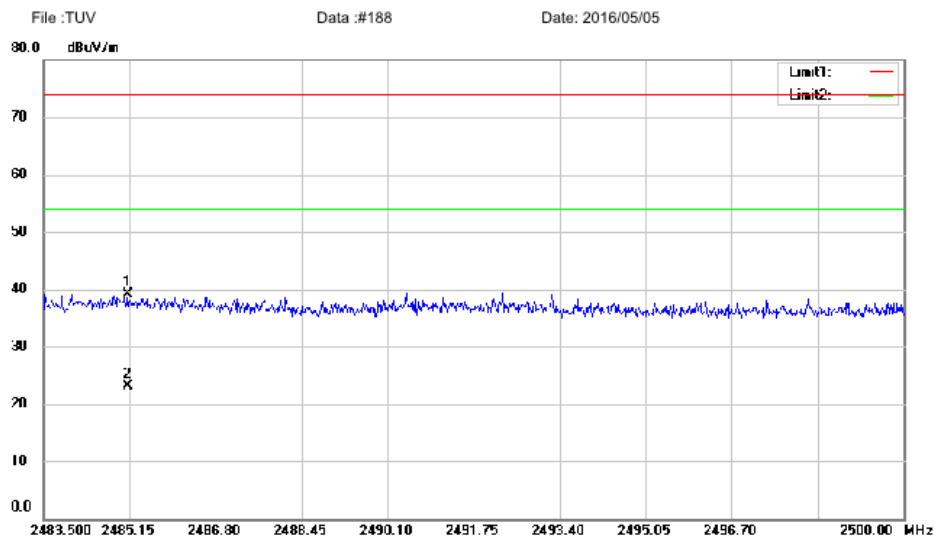
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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)RSS-247

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Protatable Speaker

M/N: BTS11-E

Mode:BLE 2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		2485.117	62.60	-23.43	39.17	74.00	-34.83	peak		
2	*	2485.117	46.53	-23.43	23.10	54.00	-30.90	AVG		

*:Maximum data x:Over limit !:over margin

Operator: KK

File :TUVData :#188

Page: 1

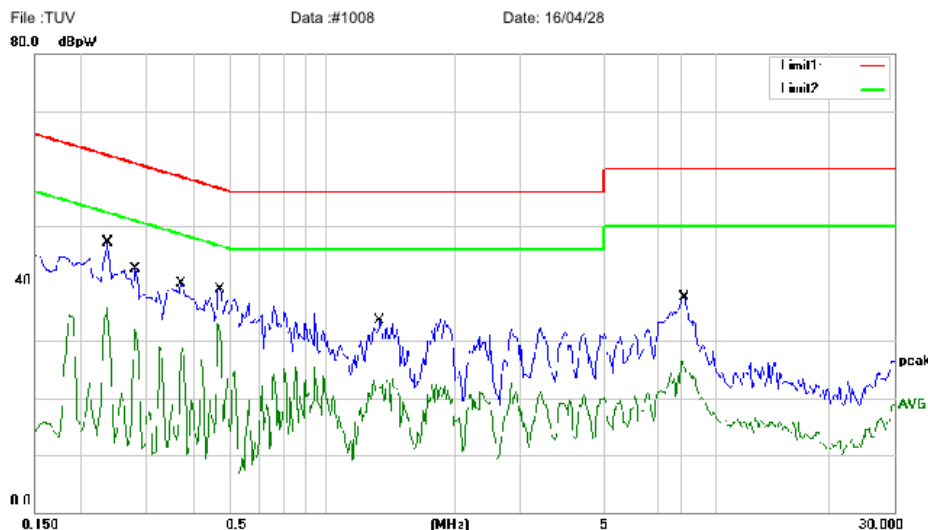
Appendix B.3: Test Plots of Conducted Emission

C Mode

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Conducted Emission Measurement



Site: Conduction #1

Phase: L1

Temperature: 26

Limit: (CE)FCC PART 15 class C_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: Bluetooth connecting mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBpW	dB	dBpW	dBpW	dB		
1		0.2350	47.18	0.00	47.18	62.27	-15.09	QP	
2		0.2350	35.77	0.00	35.77	52.27	-16.50	AVG	
3		0.2800	42.43	0.00	42.43	60.82	-18.39	QP	
4		0.2800	31.80	0.00	31.80	50.82	-19.02	AVG	
5		0.3700	39.89	0.00	39.89	58.50	-18.61	QP	
6		0.3700	29.52	0.00	29.52	48.50	-18.98	AVG	
7		0.4700	38.94	0.00	38.94	56.51	-17.57	QP	
8	*	0.4700	33.13	0.00	33.13	46.51	-13.38	AVG	
9		1.2600	33.57	0.00	33.57	56.00	-22.43	QP	
10		1.2600	23.68	0.00	23.68	46.00	-22.32	AVG	
11		8.2200	37.43	0.00	37.43	60.00	-22.57	QP	
12		8.2200	26.34	0.00	26.34	50.00	-23.66	AVG	

*: Maximum data x: Over limit !: over margin

Comment: Factor build in receiver.

Operator: JOE

File: YIFANG\Data :#1008

Page: 1

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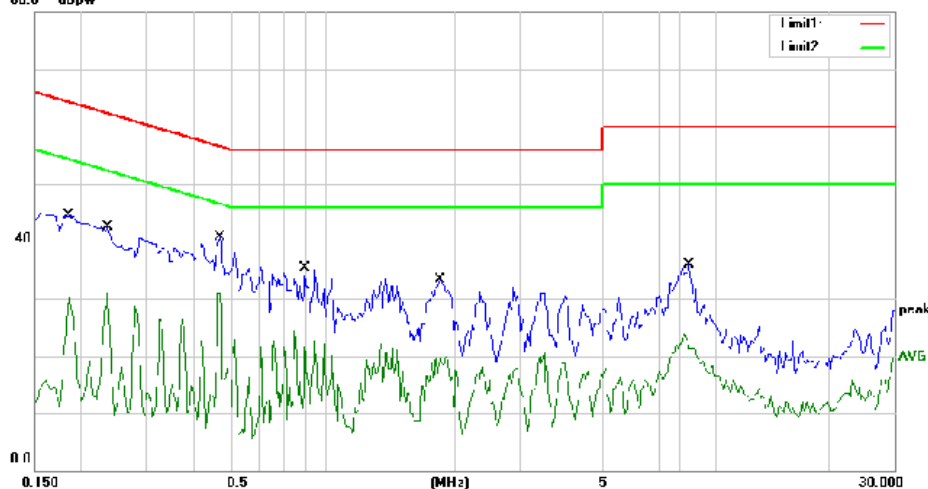
Conducted Emission Measurement

File :TUV

Data :#1009

Date: 16/04/28

80.0 dBpW



Site Conduction #1

Phase: N

Temperature: 26

Limit: (CE)FCC PART 15 class C_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode:Bluetooth connecting mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBpW	dB	dBpW	dBpW	dB	Detector	Comment
1		0.1850	44.42	0.00	44.42	64.26	-19.84	QP	
2		0.1850	30.71	0.00	30.71	54.26	-23.55	AVG	
3		0.2350	42.47	0.00	42.47	62.27	-19.80	QP	
4		0.2350	30.93	0.00	30.93	52.27	-21.34	AVG	
5		0.4700	40.77	0.00	40.77	56.51	-15.74	QP	
6	*	0.4700	30.98	0.00	30.98	46.51	-15.53	AVG	
7		0.7950	35.38	0.00	35.38	56.00	-20.62	QP	
8		0.7950	25.06	0.00	25.06	46.00	-20.94	AVG	
9		1.8200	33.22	0.00	33.22	56.00	-22.78	QP	
10		1.8200	20.26	0.00	20.26	46.00	-25.74	AVG	
11		8.4300	36.00	0.00	36.00	60.00	-24.00	QP	
12		8.4300	24.00	0.00	24.00	50.00	-26.00	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: JOE

File :YIFANG\Data :#1009

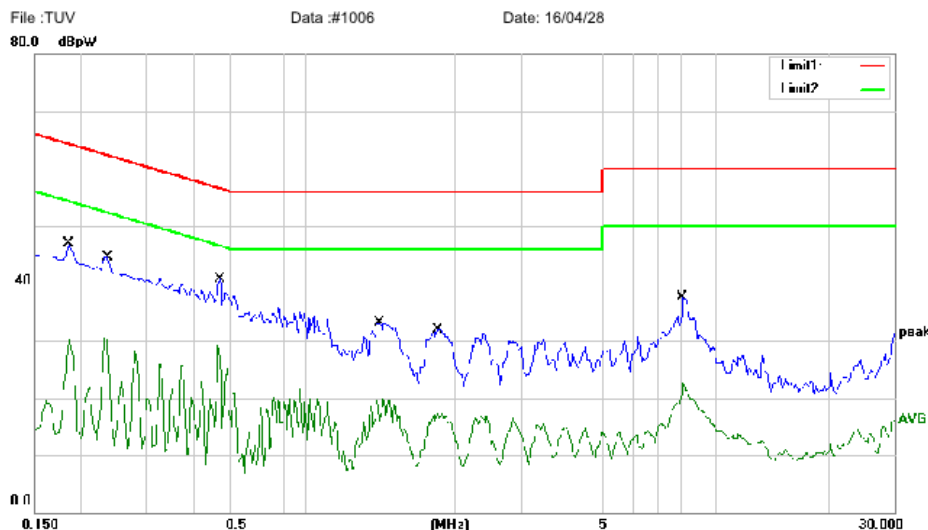
Page: 1

D Mode

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Conducted Emission Measurement



Site Conduction #1

Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: AUX IN

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBpW	dB	dBpW	dBpW	dB		
1		0.1850	46.90	0.00	46.90	64.26	-17.36	QP	
2		0.1850	30.38	0.00	30.38	54.26	-23.88	AVG	
3		0.2350	44.54	0.00	44.54	62.27	-17.73	QP	
4		0.2350	30.44	0.00	30.44	52.27	-21.83	AVG	
5	*	0.4700	40.77	0.00	40.77	56.51	-15.74	QP	
6		0.4700	29.20	0.00	29.20	46.51	-17.31	AVG	
7		1.2550	33.09	0.00	33.09	56.00	-22.91	QP	
8		1.2550	20.00	0.00	20.00	46.00	-26.00	AVG	
9		1.7950	31.93	0.00	31.93	56.00	-24.07	QP	
10		1.7950	17.40	0.00	17.40	46.00	-28.60	AVG	
11		8.1400	37.48	0.00	37.48	60.00	-22.52	QP	
12		8.1400	22.71	0.00	22.71	50.00	-27.29	AVG	

*:Maximum data x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: JOE

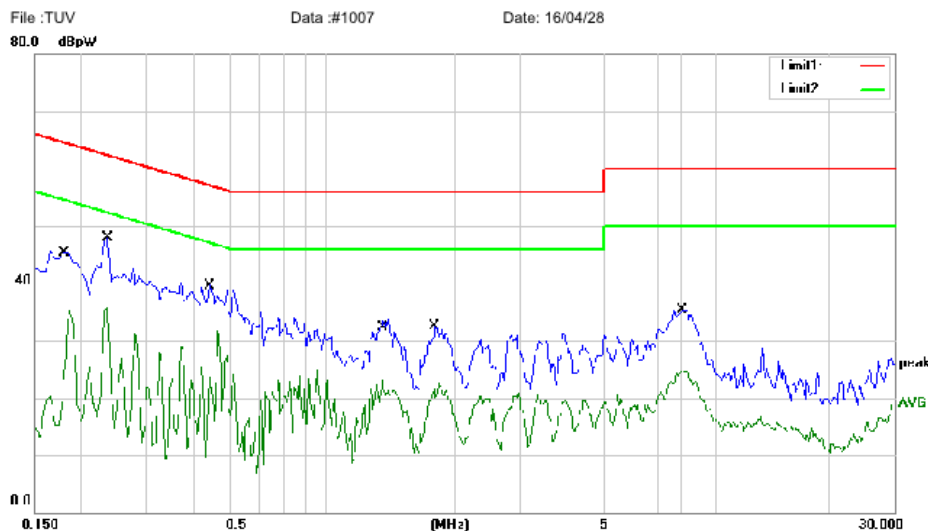
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Conducted Emission Measurement



Site Conduction #1

Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode:AUX IN

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBpW	dB	dBpW	dBpW	dB	Detector	Comment
1		0.1800	45.37	0.00	45.37	64.49	-19.12	QP	
2		0.1800	35.55	0.00	35.55	54.49	-18.94	AVG	
3	*	0.2350	47.82	0.00	47.82	62.27	-14.45	QP	
4		0.2350	35.77	0.00	35.77	52.27	-16.50	AVG	
5		0.4450	39.48	0.00	39.48	56.97	-17.49	QP	
6		0.4450	31.61	0.00	31.61	46.97	-15.36	AVG	
7		1.2555	32.11	0.00	32.11	56.00	-23.89	QP	
8		1.2555	23.26	0.00	23.26	46.00	-22.74	AVG	
9		1.7650	32.44	0.00	32.44	56.00	-23.56	QP	
10		1.7650	22.41	0.00	22.41	46.00	-23.59	AVG	
11		8.1300	35.35	0.00	35.35	60.00	-24.65	QP	
12		8.1300	24.78	0.00	24.78	50.00	-25.22	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: JOE

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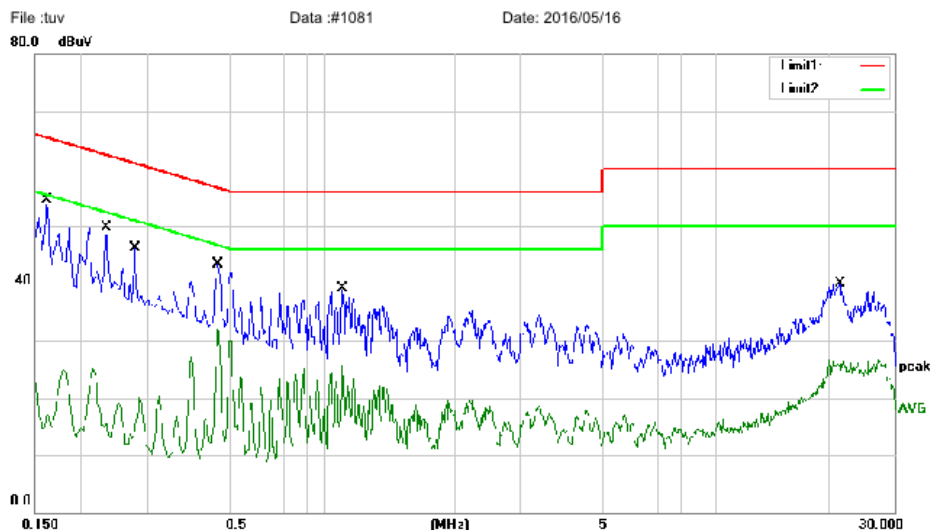
Page: 1

E Mode

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Conducted Emission Measurement



Site Conducted #1

Phase: L1

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: Charging

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1620	43.98	10.57	54.55	65.36	-10.81	QP	
2		0.1620	6.70	10.57	17.27	55.36	-38.09	AVG	
3		0.2340	39.06	10.57	49.63	62.31	-12.68	QP	
4		0.2340	5.08	10.57	15.65	52.31	-36.66	AVG	
5		0.2780	35.52	10.57	46.09	60.88	-14.79	QP	
6		0.2780	4.63	10.57	15.20	50.88	-35.68	AVG	
7		0.4620	32.75	10.57	43.32	56.66	-13.34	QP	
8		0.4620	21.30	10.57	31.87	46.66	-14.79	AVG	
9		1.0020	28.44	10.57	39.01	56.00	-16.99	QP	
10		1.0020	15.22	10.57	25.79	46.00	-20.21	AVG	
11		21.4580	28.87	10.93	39.80	60.00	-20.20	QP	
12		21.4580	15.32	10.93	26.25	50.00	-23.75	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

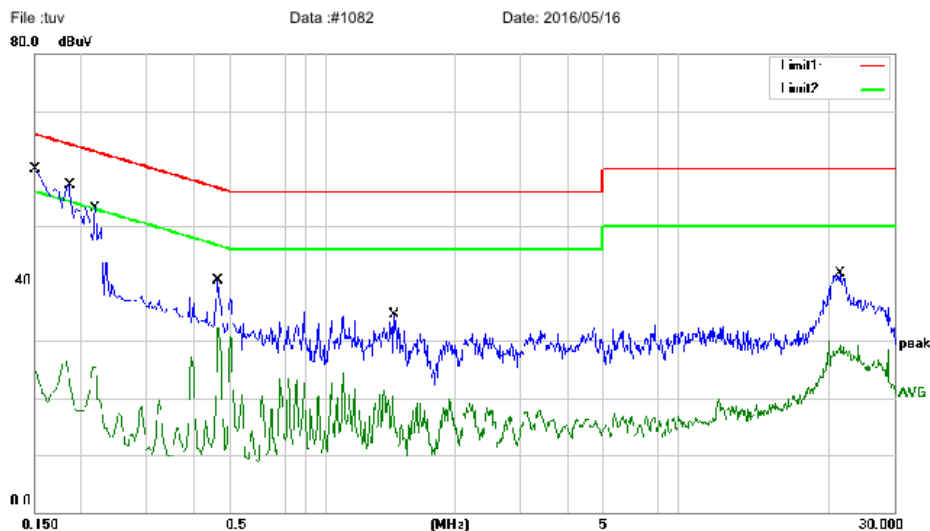
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Page: 1

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Conducted Emission Measurement



Site Conducted #1

Phase: N

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: Charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	49.30	10.57	59.87	66.00	-6.13	QP	
2		0.1500	15.20	10.57	25.77	56.00	-30.23	AVG	
3		0.1860	46.63	10.57	57.20	64.21	-7.01	QP	
4		0.1860	15.84	10.57	26.41	54.21	-27.80	AVG	
5		0.2184	40.73	10.57	51.30	62.88	-11.58	QP	
6		0.2184	14.97	10.57	25.54	52.88	-27.34	AVG	
7		0.4660	30.02	10.57	40.59	56.58	-15.99	QP	
8		0.4660	21.62	10.57	32.19	46.58	-14.39	AVG	
9		1.3740	23.94	10.59	34.53	56.00	-21.47	QP	
10		1.3740	9.76	10.59	20.35	46.00	-25.65	AVG	
11		21.5380	30.44	10.93	41.37	60.00	-18.63	QP	
12		21.5380	18.08	10.93	29.01	50.00	-20.99	AVG	

*:Maximum data x:Over limit l:over margin Comment: Factor build in receiver. Operator:

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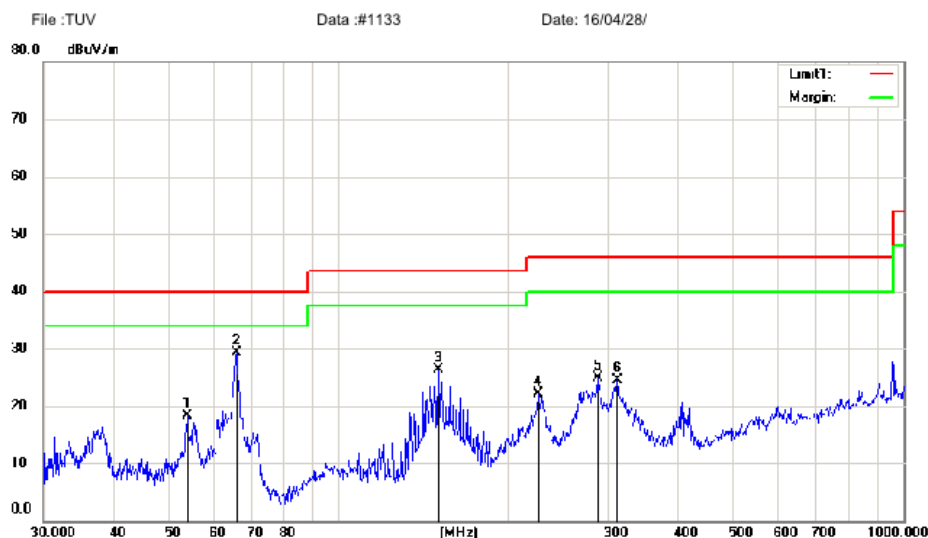
Appendix B.4: Test Plots of Radiated Emission

D Mode

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Radiated Emission Measurement



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 21 C

Limit: (RE)FCC PART 15 CLASS B

Power: DC 5V

Humidity: 53 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: AUX IN (BATTERY)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		53.8818	32.82	-14.61	18.21	40.00	-21.79	QP		
2	*	65.8031	46.82	-17.51	29.31	40.00	-10.69	QP		
3		150.0108	44.74	-18.47	26.27	43.50	-17.23	QP		
4		225.3080	36.65	-14.62	22.03	46.00	-23.97	QP		
5		286.9823	37.66	-12.83	24.83	46.00	-21.17	QP		
6		311.0867	36.91	-12.39	24.52	46.00	-21.48	QP		

*:Maximum data x:Over limit !:over margin

Operator:

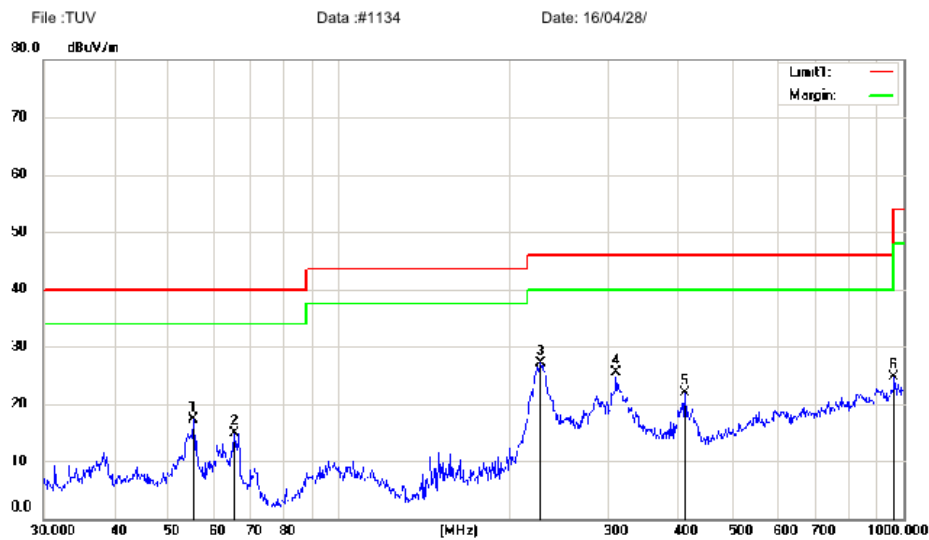
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		55.2207	32.17	-14.78	17.39	40.00	-22.61	QP		
2		65.3432	32.32	-17.34	14.98	40.00	-25.02	QP		
3	*	227.6906	41.76	-14.57	27.19	46.00	-18.81	QP		
4		309.9977	37.84	-12.41	25.43	46.00	-20.57	QP		
5		410.3825	31.79	-9.88	21.91	46.00	-24.09	QP		
6		962.1623	24.84	-0.10	24.74	54.00	-29.26	QP		

*:Maximum data x:Over limit !:over margin

Operator:

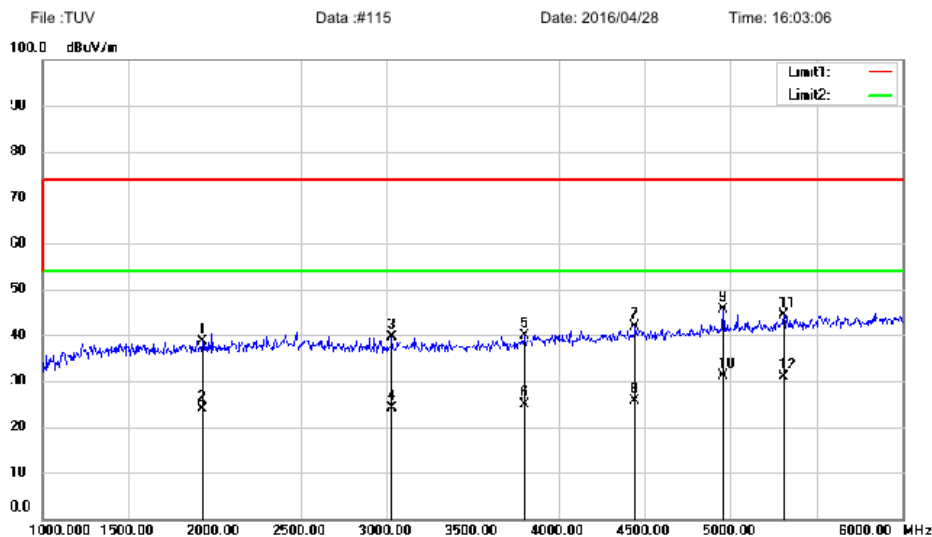
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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: HBTS11-E

Mode:AUX IN(bat)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1930.000	62.02	-23.30	38.72	74.00	-35.28	peak		
2		1930.000	47.10	-23.30	23.80	54.00	-30.20	AVG		
3		3030.000	61.21	-21.57	39.64	74.00	-34.36	peak		
4		3030.000	45.77	-21.57	24.20	54.00	-29.80	AVG		
5		3800.000	59.33	-19.36	39.97	74.00	-34.03	peak		
6		3800.000	44.16	-19.36	24.80	54.00	-29.20	AVG		
7		4445.000	59.15	-17.19	41.96	74.00	-32.04	peak		
8		4445.000	42.79	-17.19	25.60	54.00	-28.40	AVG		
9		4955.000	61.20	-15.51	45.69	74.00	-28.31	peak		
10	*	4955.000	46.71	-15.51	31.20	54.00	-22.80	AVG		
11		5310.000	58.85	-14.41	44.44	74.00	-29.56	peak		
12		5310.000	45.21	-14.41	30.80	54.00	-23.20	AVG		

*:Maximum data x:Over limit !:over margin

Operator: CSL

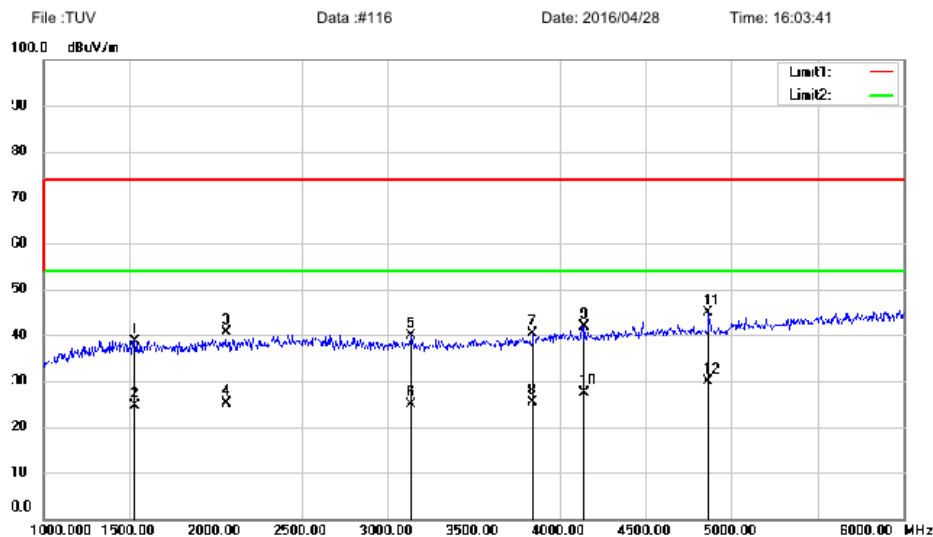
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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: HBTS11-E

Mode:AUX IN(bat)

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1530.000	62.20	-23.47	38.73	74.00	-35.27	peak		
2		1530.000	48.07	-23.47	24.60	54.00	-29.40	AVG		
3		2060.000	63.42	-22.91	40.51	74.00	-33.49	peak		
4		2060.000	48.11	-22.91	25.20	54.00	-28.80	AVG		
5		3135.000	61.22	-21.34	39.88	74.00	-34.12	peak		
6		3135.000	46.14	-21.34	24.80	54.00	-29.20	AVG		
7		3845.000	59.61	-19.19	40.42	74.00	-33.58	peak		
8		3845.000	44.49	-19.19	25.30	54.00	-28.70	AVG		
9		4145.000	60.12	-18.12	42.00	74.00	-32.00	peak		
10		4145.000	45.62	-18.12	27.50	54.00	-26.50	AVG		
11		4865.000	60.62	-15.81	44.81	74.00	-29.19	peak		
12	*	4865.000	45.61	-15.81	29.80	54.00	-24.20	AVG		

*:Maximum data x:Over limit !:over margin

Operator: CSL

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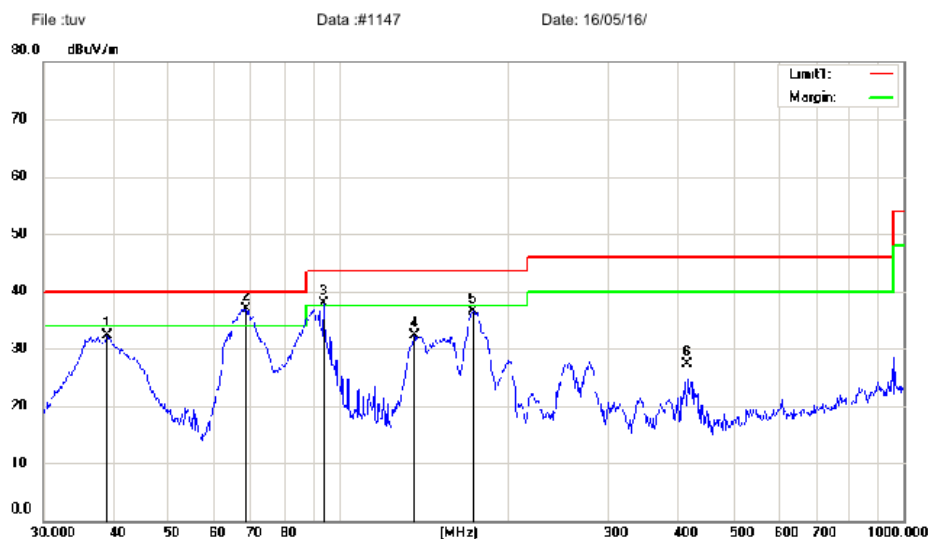
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E Mode

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Radiated Emission Measurement



Site 3m Chamber #2

Polarization: **Vertical**

Temperature: 21 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: BLUETOOTH PROTABLE

M/N: BTSII-E

Mode: charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		38.8877	46.75	-14.41	32.34	40.00	-7.66	QP		
2	*	68.3906	55.39	-18.47	36.92	40.00	-3.08	QP		
3	!	94.0978	52.43	-14.58	37.85	43.50	-5.65	QP		
4		135.9821	51.29	-18.89	32.40	43.50	-11.10	QP		
5		172.5987	53.76	-17.33	36.43	43.50	-7.07	QP		
6		414.7223	37.01	-9.78	27.23	46.00	-18.77	QP		

*:Maximum data x:Over limit !:over margin

Operator:

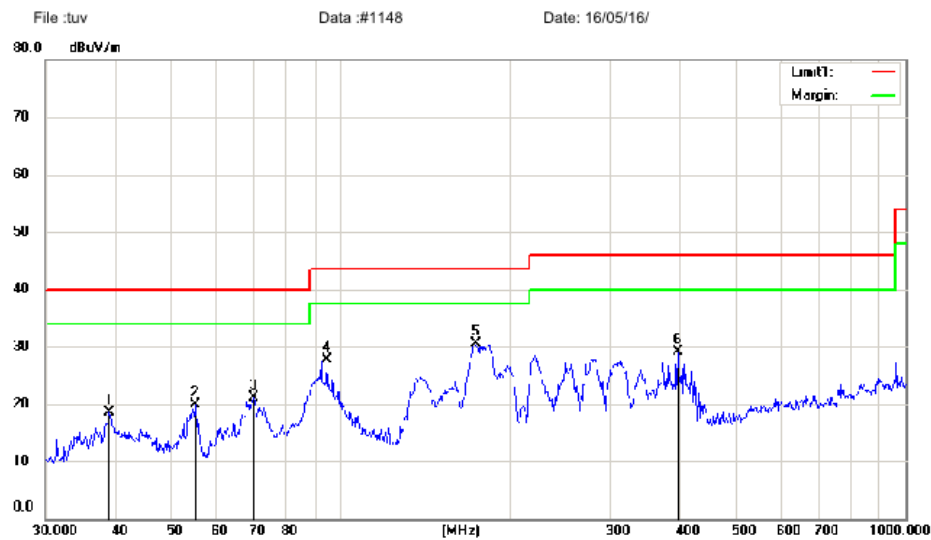
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		38.8877	32.96	-14.41	18.55	40.00	-21.45	QP		
2		55.2207	34.70	-14.78	19.92	40.00	-20.08	QP		
3		70.0901	40.27	-19.08	21.19	40.00	-18.81	QP		
4		94.4282	42.16	-14.52	27.64	43.50	-15.86	QP		
5	*	173.2050	47.80	-17.28	30.52	43.50	-12.98	QP		
6		394.8544	39.42	-10.24	29.18	46.00	-16.82	QP		

*:Maximum data x:Over limit !:over margin

Operator:

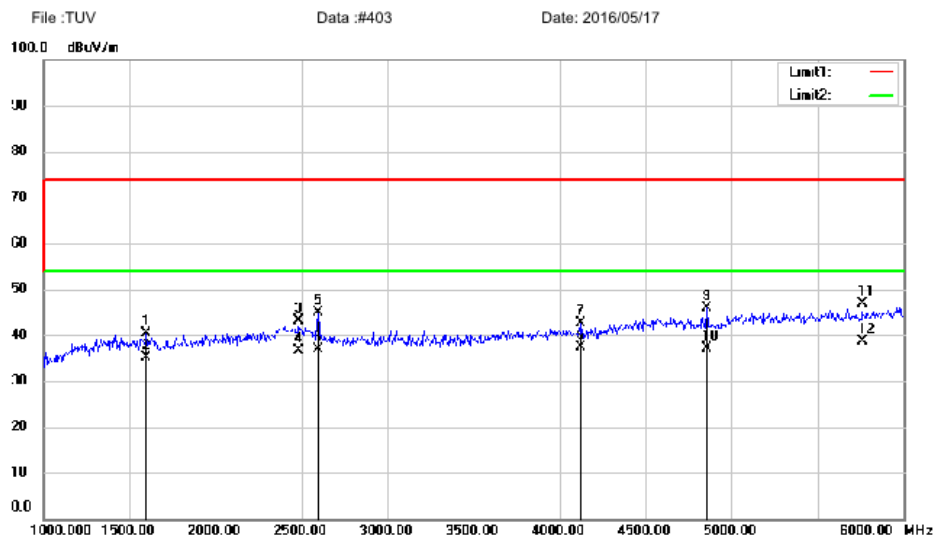
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Radiated Emission Measurement



Site 3m Chamber #3

Polarization: **Horizontal**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: HBTS11-E

Mode:Charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1595.000	63.96	-23.61	40.35	74.00	-33.65	peak		
2		1595.000	58.82	-23.61	35.21	54.00	-18.79	AVG		
3		2480.000	64.97	-21.84	43.13	74.00	-30.87	peak		
4		2480.000	58.40	-21.84	36.56	54.00	-17.44	AVG		
5		2595.000	66.72	-21.77	44.95	74.00	-29.05	peak		
6		2595.000	58.62	-21.77	36.85	54.00	-17.15	AVG		
7		4120.000	60.88	-18.19	42.69	74.00	-31.31	peak		
8		4120.000	55.61	-18.19	37.42	54.00	-16.58	AVG		
9		4855.000	61.74	-15.84	45.90	74.00	-28.10	peak		
10		4855.000	53.00	-15.84	37.16	54.00	-16.84	AVG		
11		5760.000	60.53	-13.61	46.92	74.00	-27.08	peak		
12	*	5760.000	52.26	-13.61	38.65	54.00	-15.35	AVG		

*:Maximum data x:Over limit !:over margin

Operator: CSL

File :TUVData :#403

Page: 1

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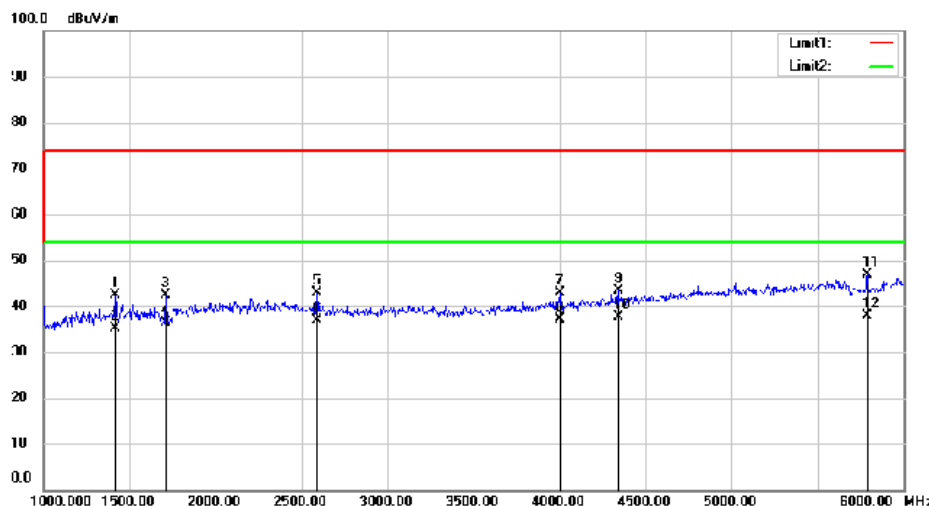


Radiated Emission Measurement

File :TUV

Data :#404

Date: 2016/05/17



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15 CLASS B

Power: AC 120V/60Hz

Humidity: 53 %

EUT: Bluetooth Portable Speaker

M/N: HBTS11-E

Mode:Charging

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		1415.000	65.56	-23.22	42.34	74.00	-31.66	peak		
2		1415.000	58.38	-23.22	35.16	54.00	-18.84	AVG		
3		1710.000	66.07	-23.69	42.38	74.00	-31.62	peak		
4		1710.000	60.11	-23.69	36.42	54.00	-17.58	AVG		
5		2590.000	64.65	-21.76	42.89	74.00	-31.11	peak		
6		2590.000	58.59	-21.76	36.83	54.00	-17.17	AVG		
7		4000.000	61.49	-18.57	42.92	74.00	-31.08	peak		
8		4000.000	55.73	-18.57	37.16	54.00	-16.84	AVG		
9		4340.000	60.78	-17.51	43.27	74.00	-30.73	peak		
10		4340.000	55.03	-17.51	37.52	54.00	-16.48	AVG		
11		5790.000	60.33	-13.56	46.77	74.00	-27.23	peak		
12	*	5790.000	51.52	-13.56	37.96	54.00	-16.04	AVG		

*:Maximum data x:Over limit !:over margin

Operator: CSL

File :TUVData :#404

Page: 1