30MHz-1000MHz test data (5.8G)

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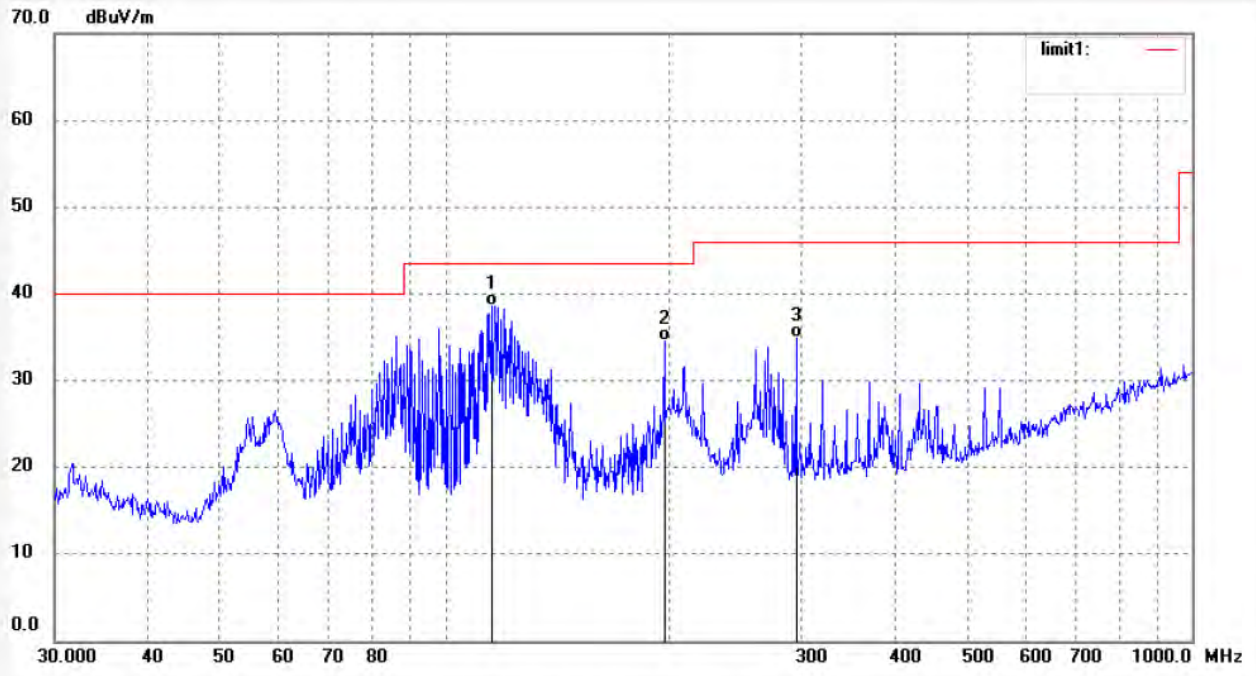
Job No.: LGW2018 #1752	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	115.7256	51.73	-13.06	38.67	43.50	-4.83	QP			
2	196.5098	46.89	-12.30	34.59	43.50	-8.91	QP			
3	295.1469	44.07	-9.10	34.97	46.00	-11.03	QP			

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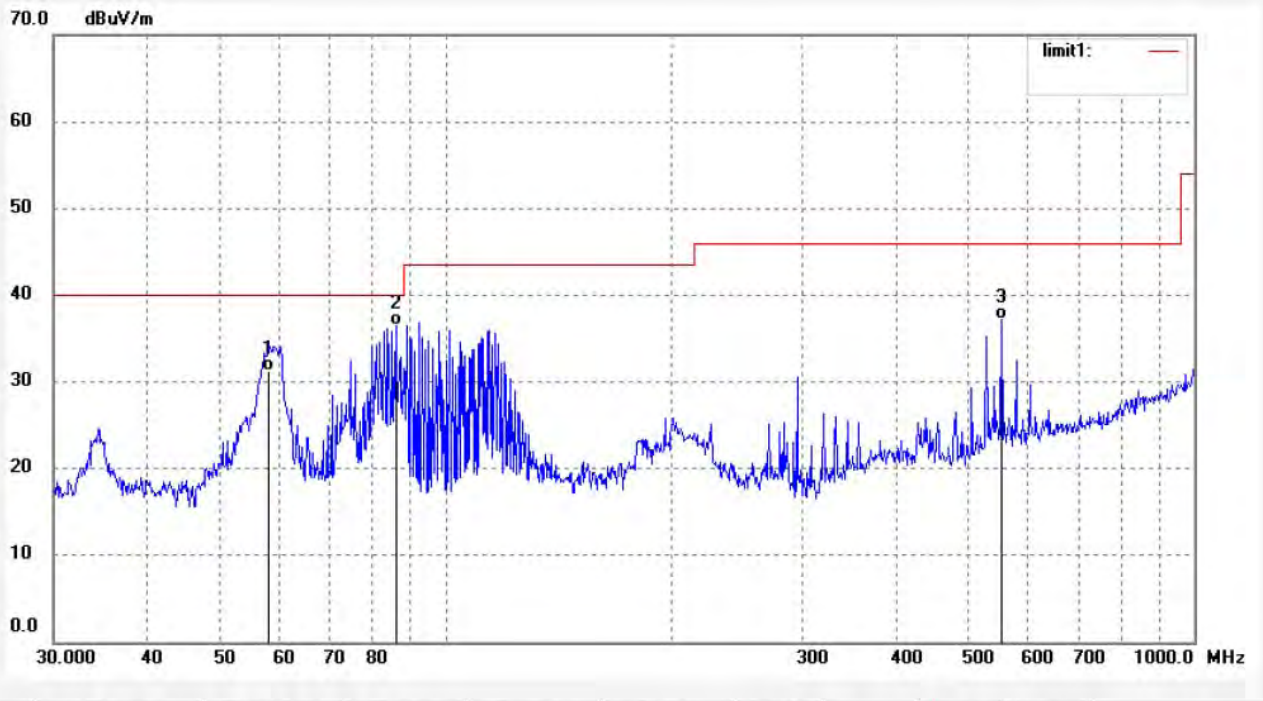
Job No.: LGW2018 #1753	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	58.2030	44.82	-13.56	31.26	40.00	-8.74	QP			
2	85.8983	51.84	-15.28	36.56	40.00	-3.44	QP			
3	552.8831	40.13	-3.00	37.13	46.00	-8.87	QP			

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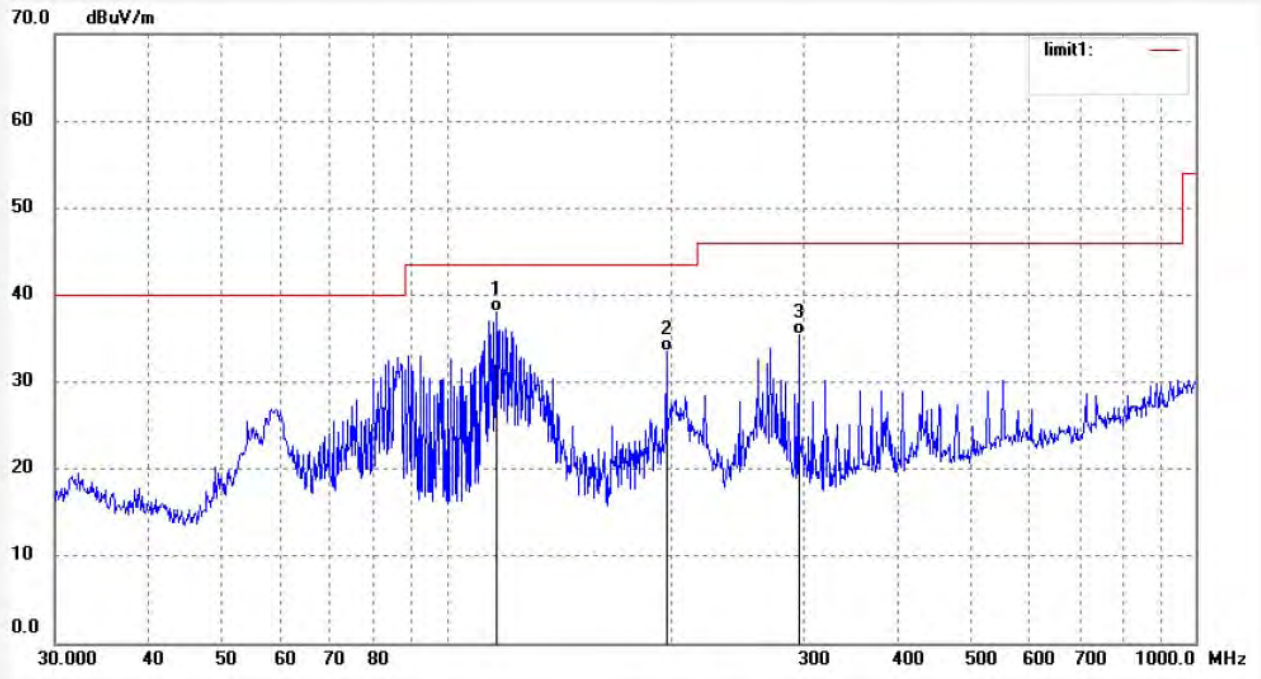
Job No.: LGW2018 #1755	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	116.5400	51.07	-13.06	38.01	43.50	-5.49	QP			
2	196.5098	45.89	-12.30	33.59	43.50	-9.91	QP			
3	295.1469	44.46	-9.10	35.36	46.00	-10.64	QP			

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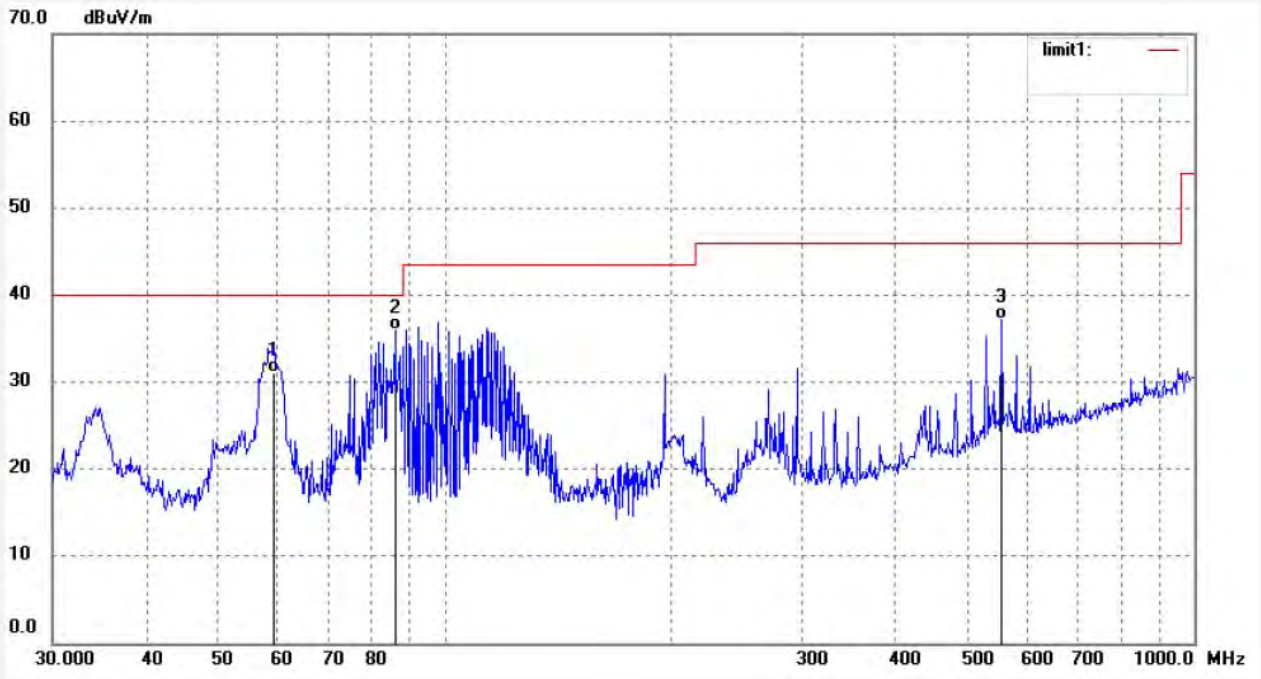
Job No.: LGW2018 #1754	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.2325	44.89	-13.76	31.13	40.00	-8.87	QP			
2	85.8983	51.24	-15.28	35.96	40.00	-4.04	QP			
3	552.8831	40.17	-3.00	37.17	46.00	-8.83	QP			

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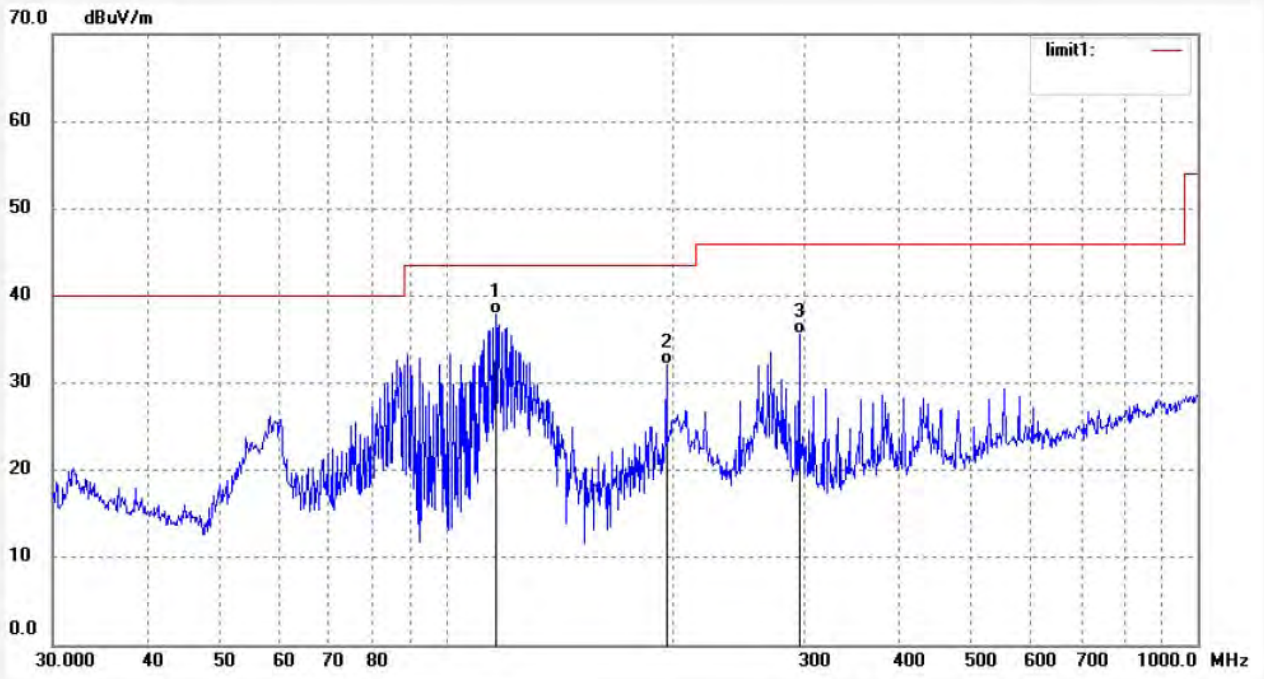
Job No.: LGW2018 #1756
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5820.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	116.5400	50.91	-13.06	37.85	43.50	-5.65	QP			
2	196.5098	44.38	-12.30	32.08	43.50	-11.42	QP			
3	295.1469	44.77	-9.10	35.67	46.00	-10.33	QP			

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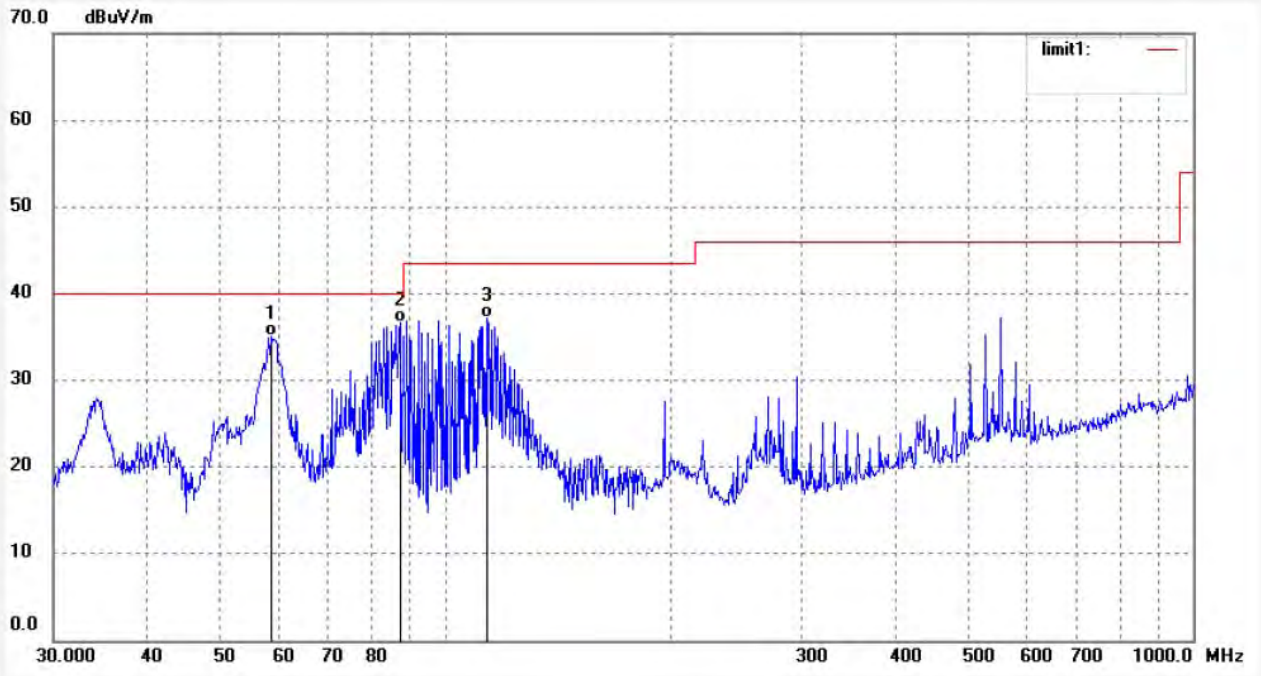
Job No.: LGW2018 #1757	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5820.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	58.6126	48.69	-13.64	35.05	40.00	-4.95	QP			
2	87.1116	51.90	-15.19	36.71	40.00	-3.29	QP			
3	113.7142	50.52	-13.25	37.27	43.50	-6.23	QP			

1GHz-18GHz test data (5.8G)

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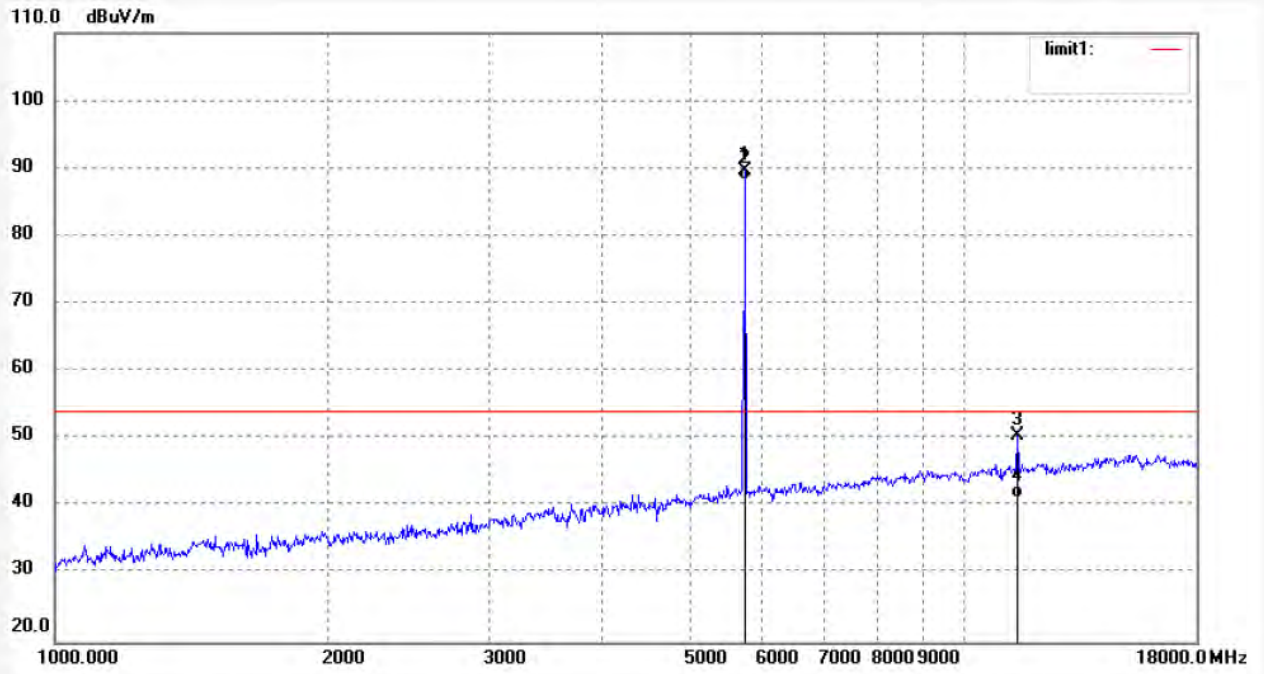
Job No.: LGW2018 #1730
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5730.350	79.57	10.18	89.75	114.00	-24.25	peak			
2	5730.350	78.07	10.18	88.25	94.00	-5.75	AVG			
3	11460.744	30.60	19.86	50.46	74.00	-23.54	peak			
4	11460.744	21.39	19.86	41.25	54.00	-12.75	AVG			

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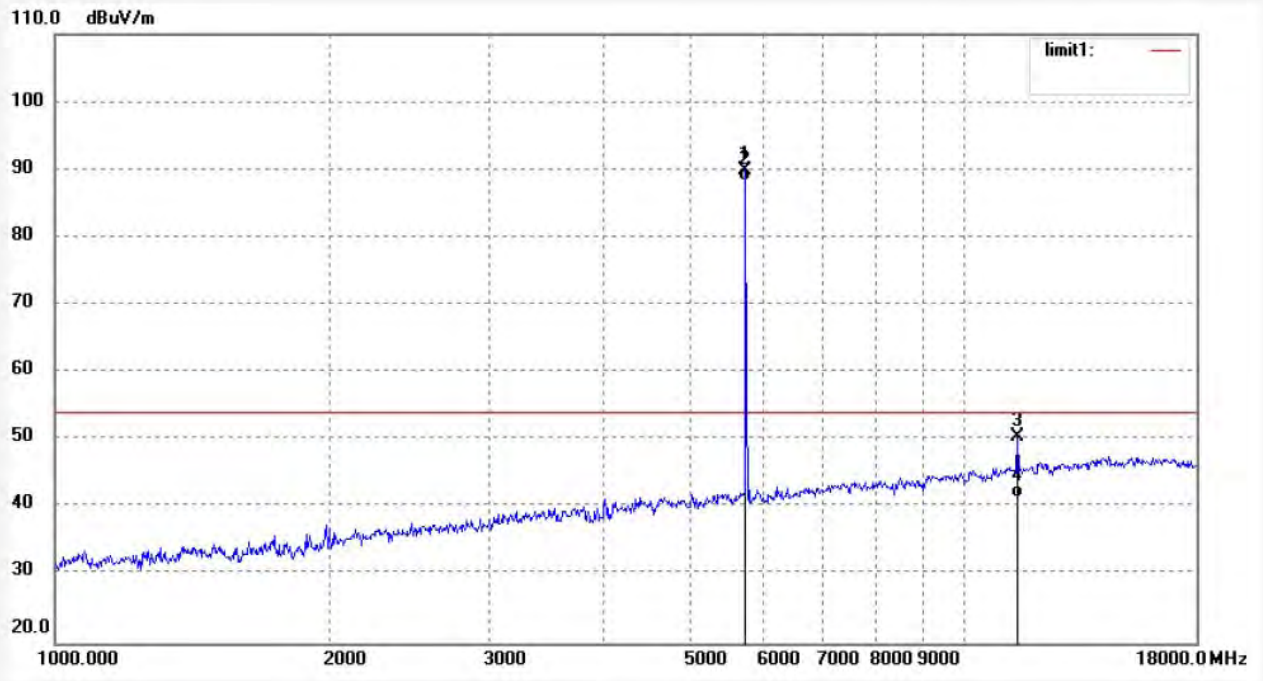
Job No.: LGW2018 #1731
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5730.350	79.65	10.18	89.83	114.00	-24.17	peak			
2	5730.350	78.15	10.18	88.33	94.00	-5.67	AVG			
3	11460.734	30.70	19.86	50.56	74.00	-23.44	peak			
4	11460.734	21.71	19.86	41.57	54.00	-12.43	AVG			

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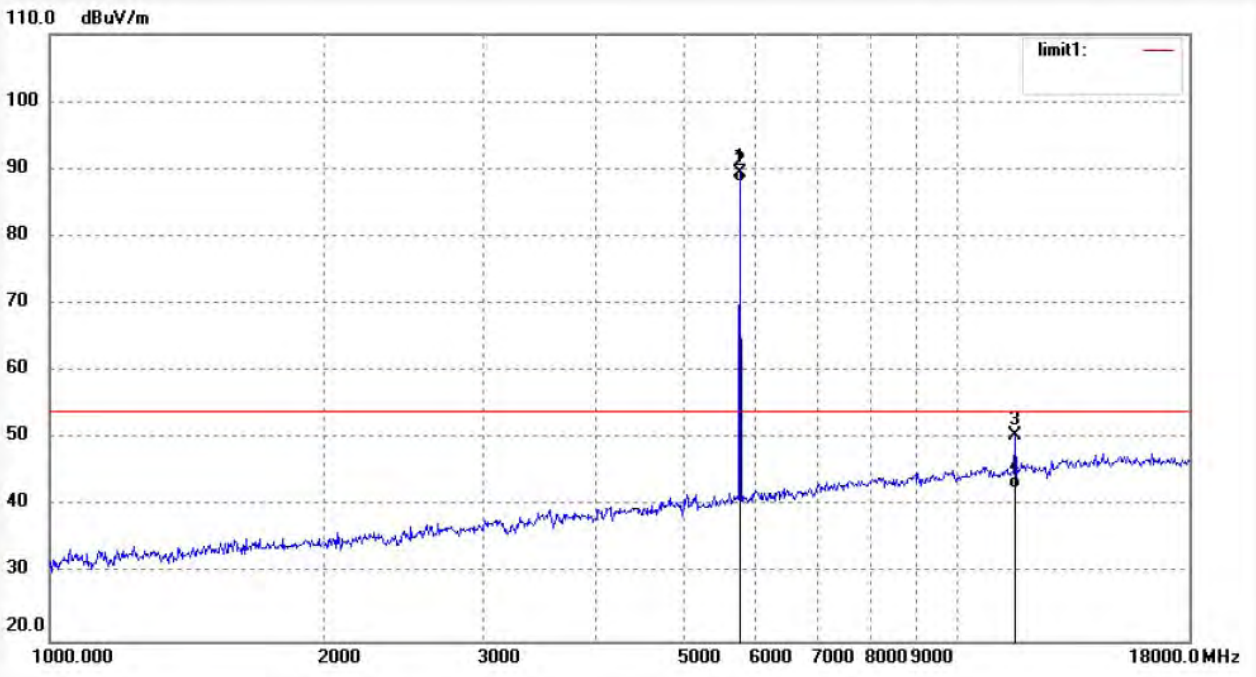
Job No.: LGW2018 #1734	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5776.350	78.94	10.44	89.38	114.00	-24.62	peak			
2	5776.350	77.64	10.44	88.08	94.00	-5.92	AVG			
3	11552.733	30.34	20.17	50.51	74.00	-23.49	peak			
4	11552.733	22.37	20.17	42.54	54.00	-11.46	AVG			

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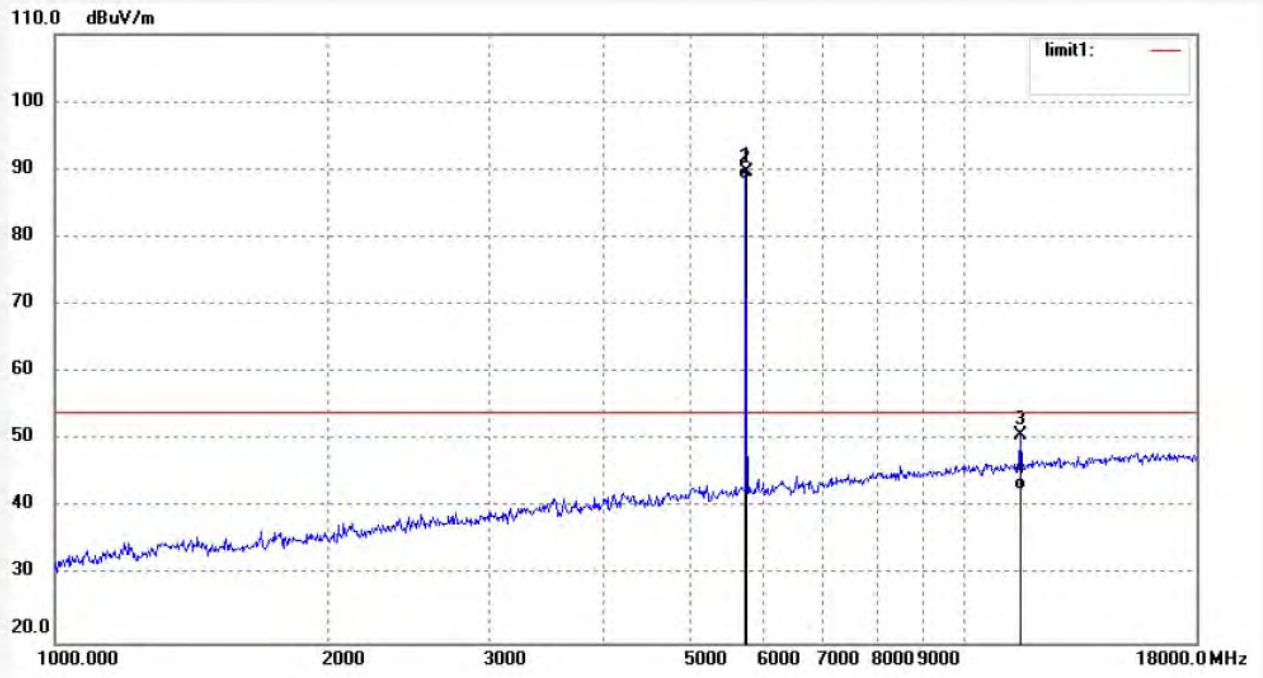
Job No.: LGW2018 #1735
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5776.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5776.350	79.31	10.44	89.75	114.00	-24.25	peak			
2	5776.350	78.01	10.44	88.45	94.00	-5.55	AVG			
3	11552.737	30.44	20.17	50.61	74.00	-23.39	peak			
4	11552.737	22.40	20.17	42.57	54.00	-11.43	AVG			

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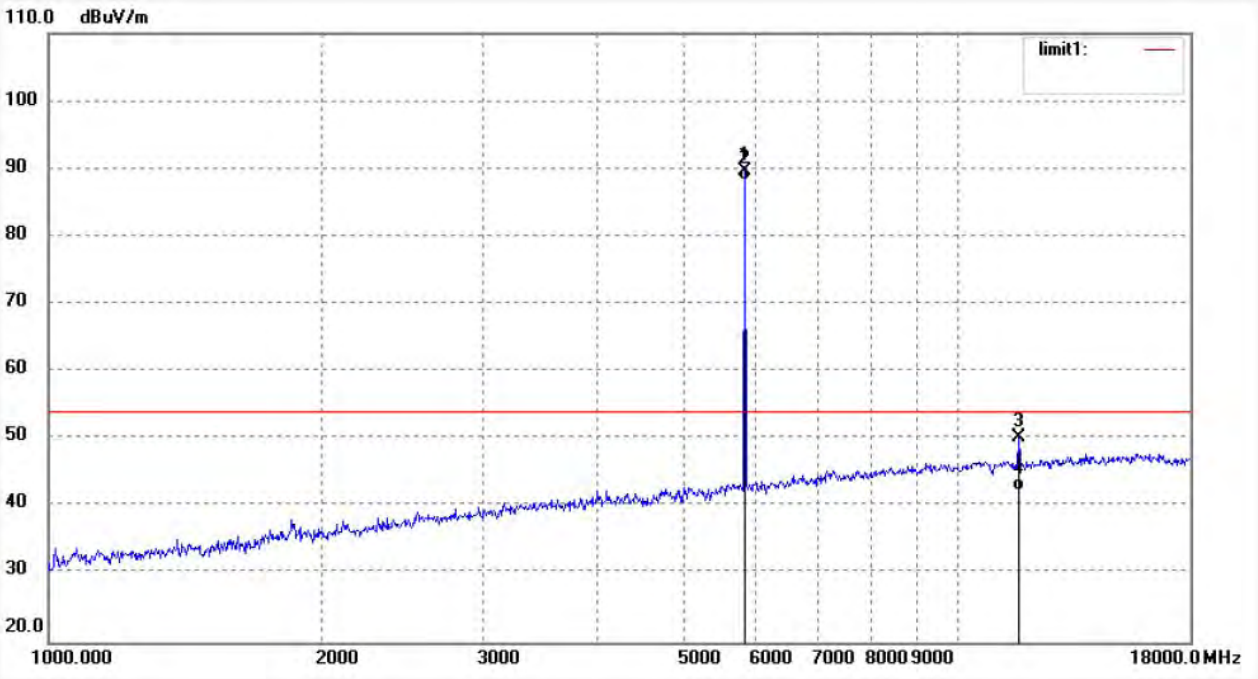
Job No.: LGW2018 #1737
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5820.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5820.350	78.96	10.66	89.62	114.00	-24.38	peak			
2	5820.350	77.56	10.66	88.22	94.00	-5.78	AVG			
3	11640.732	29.57	20.71	50.28	74.00	-23.72	peak			
4	11640.732	21.65	20.71	42.36	54.00	-11.64	AVG			

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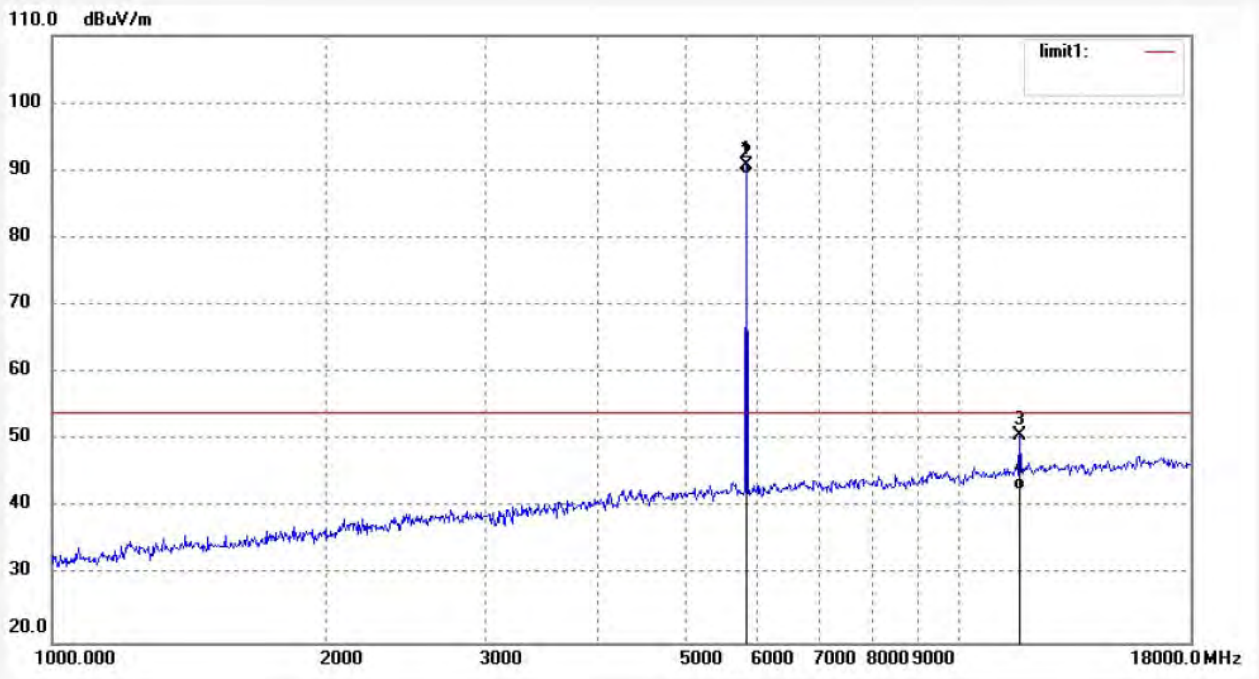
Job No.: LGW2018 #1736	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5820.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5820.350	80.11	10.66	90.77	114.00	-23.23	peak			
2	5820.350	78.71	10.66	89.37	94.00	-4.63	AVG			
3	11640.740	30.03	20.71	50.74	74.00	-23.26	peak			
4	11640.740	21.94	20.71	42.65	54.00	-11.35	AVG			

18GHz-26.5GHz test data (5.8G)

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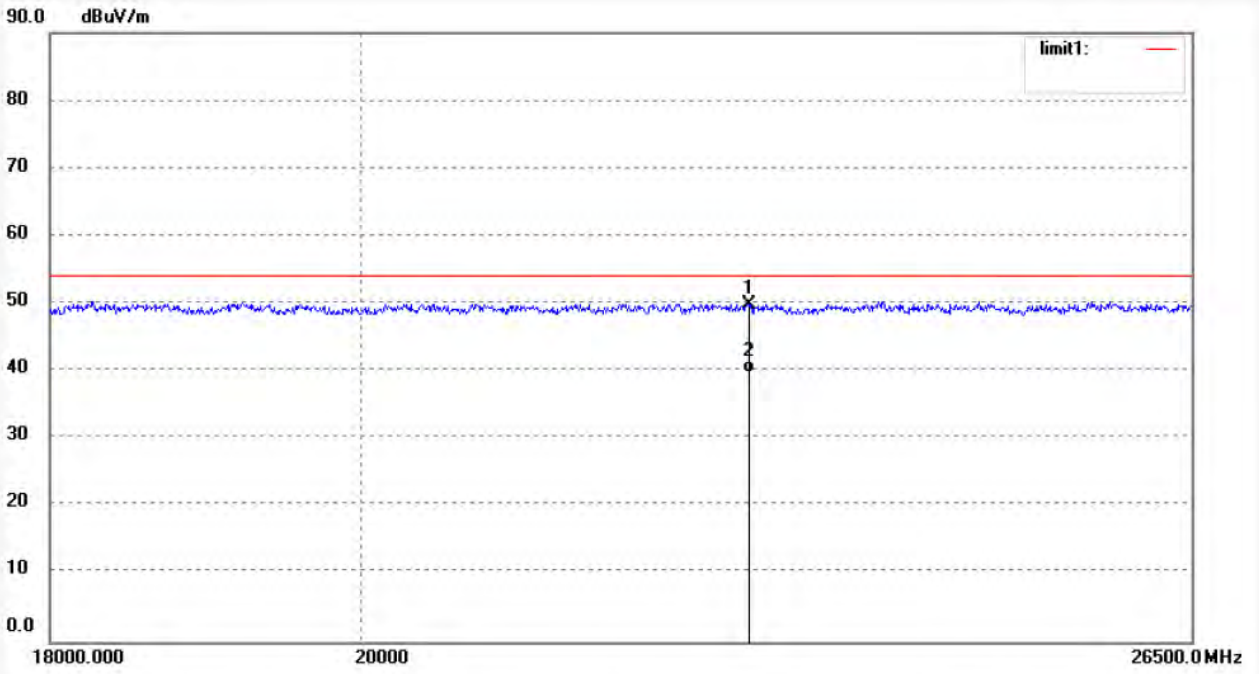
Job No.: LGW2018 #1741
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22807.212	10.16	39.68	49.84	74.00	-24.16	peak			
2	22807.212	-0.04	39.68	39.64	54.00	-14.36	AVG			

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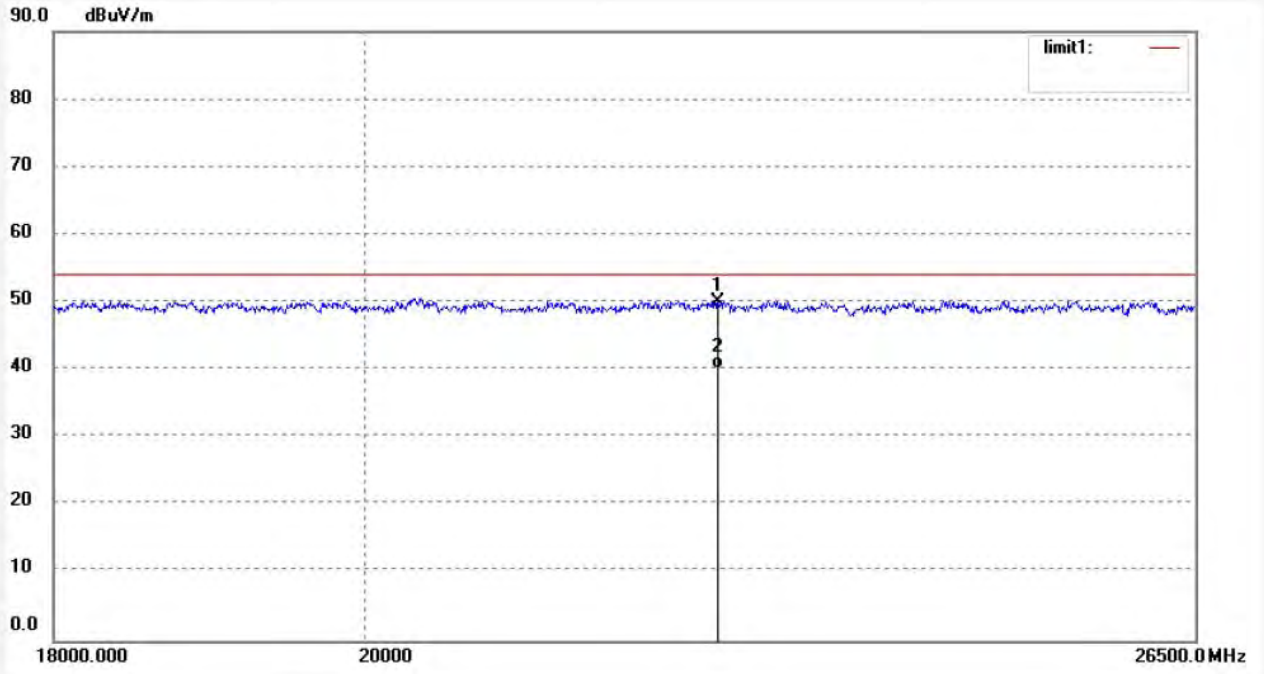
Job No.: LGW2018 #1740	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22544.105	10.60	39.42	50.02	74.00	-23.98	peak			
2	22544.105	0.81	39.42	40.23	54.00	-13.77	AVG			

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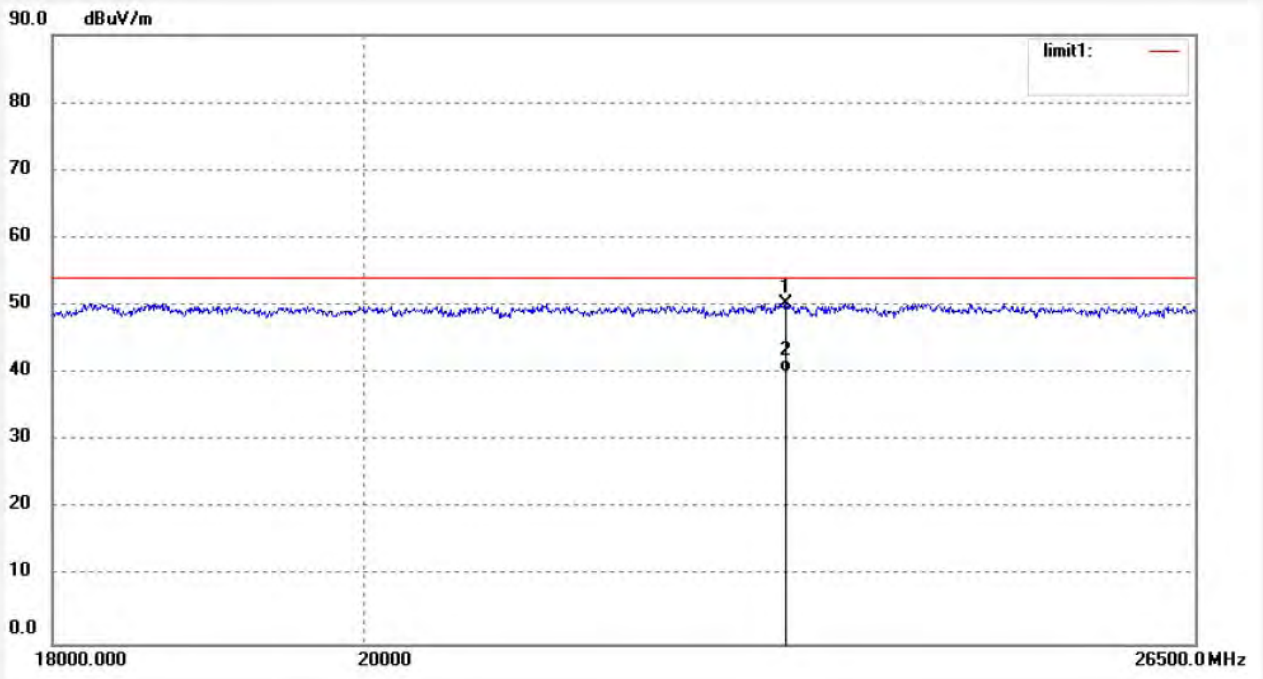
Job No.: LGW2018 #1742	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	23073.390	10.64	39.64	50.28	74.00	-23.72	peak			
2	23073.390	0.61	39.64	40.25	54.00	-13.75	AVG			

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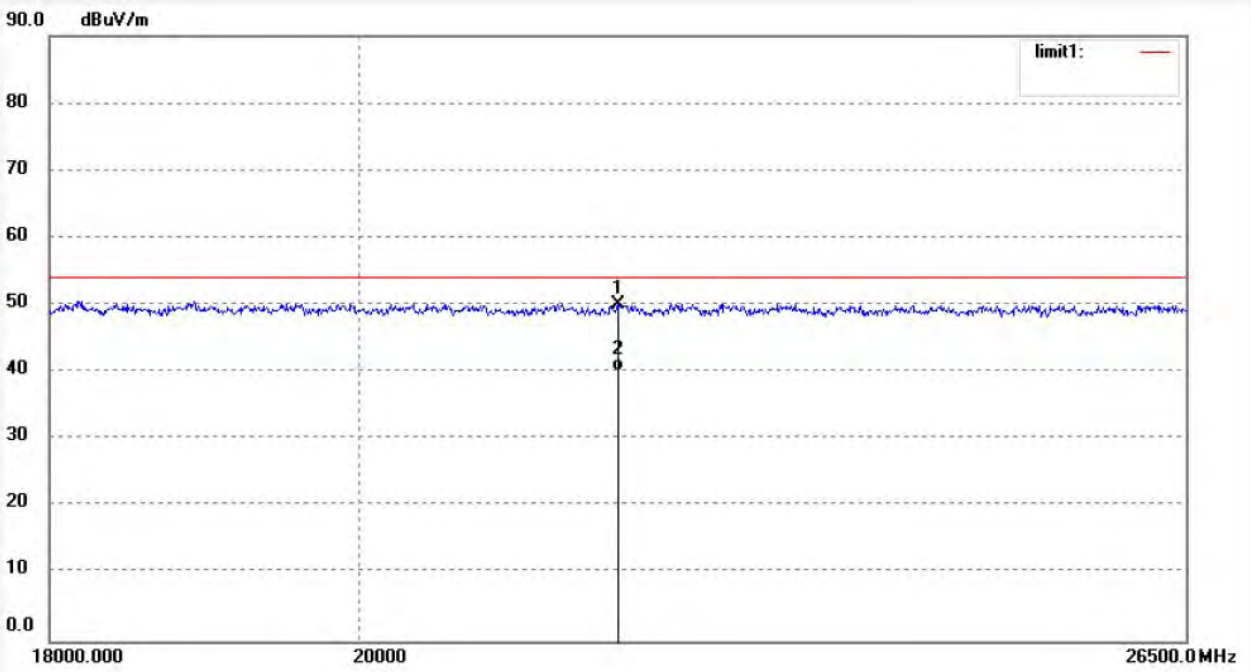
Job No.: LGW2018 #1743
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 5776.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/14/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21840.330	10.78	39.24	50.02	74.00	-23.98	peak			
2	21840.330	0.87	39.24	40.11	54.00	-13.89	AVG			

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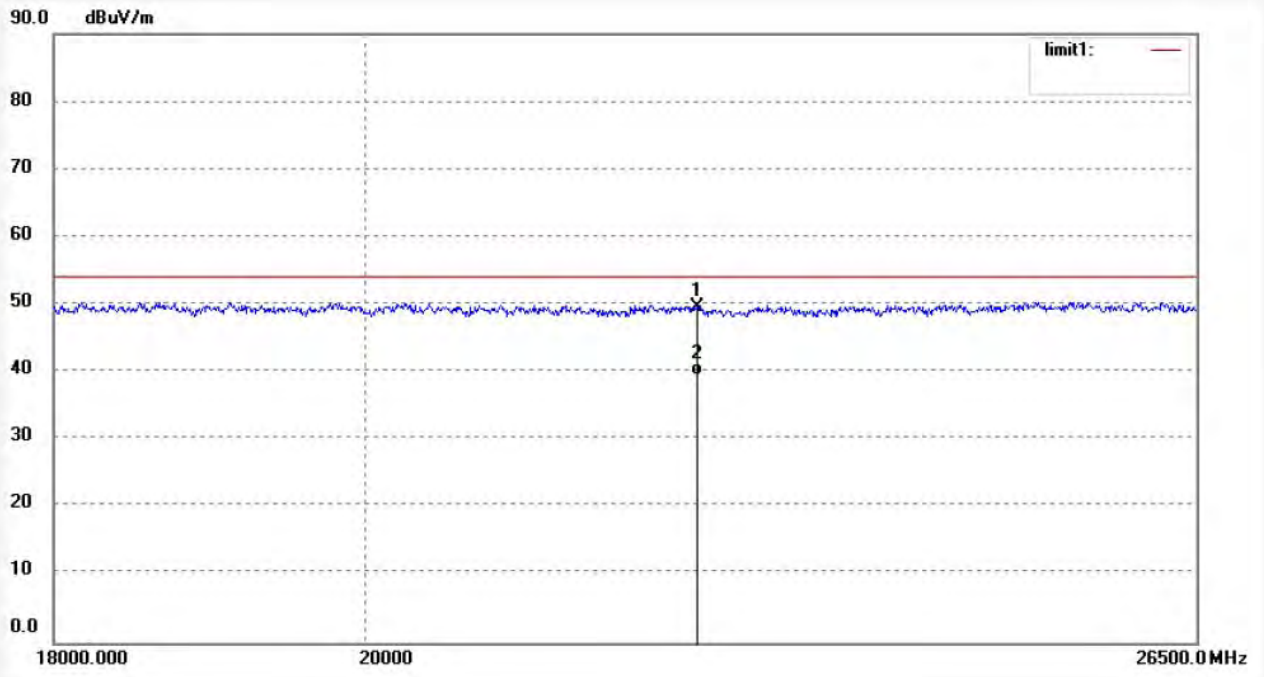
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1745	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5820.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22379.043	9.96	39.73	49.69	74.00	-24.31	peak			
2	22379.043	-0.19	39.73	39.54	54.00	-14.46	AVG			

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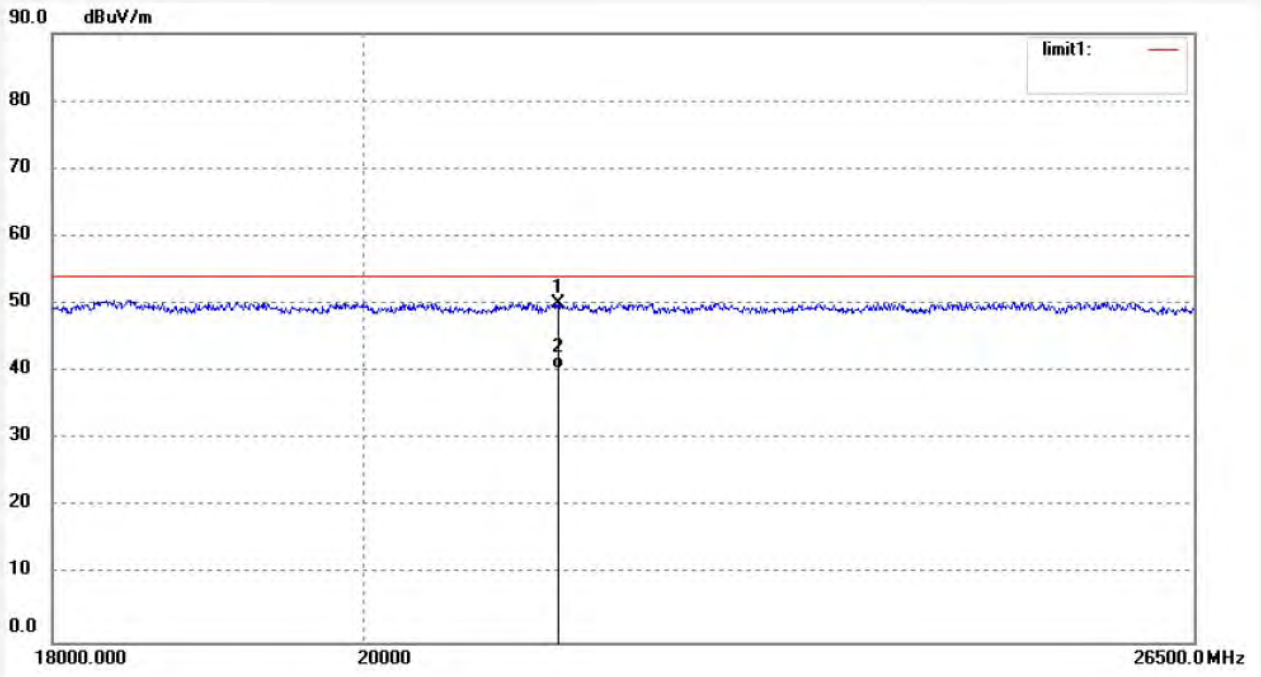
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1744	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 5820.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21364.105	10.77	39.31	50.08	74.00	-23.92	peak			
2	21364.105	1.04	39.31	40.35	54.00	-13.65	AVG			

9kHz-30MHz test data (Bluetooth+5.8G)

ACCURATE TECHNOLOGY CO.,LTD

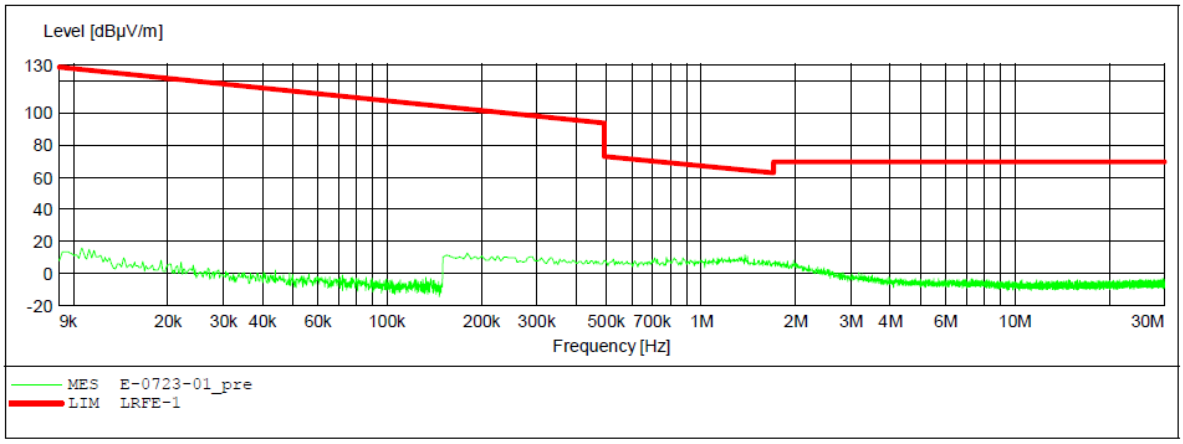
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2402MHz+TX 5730.35MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

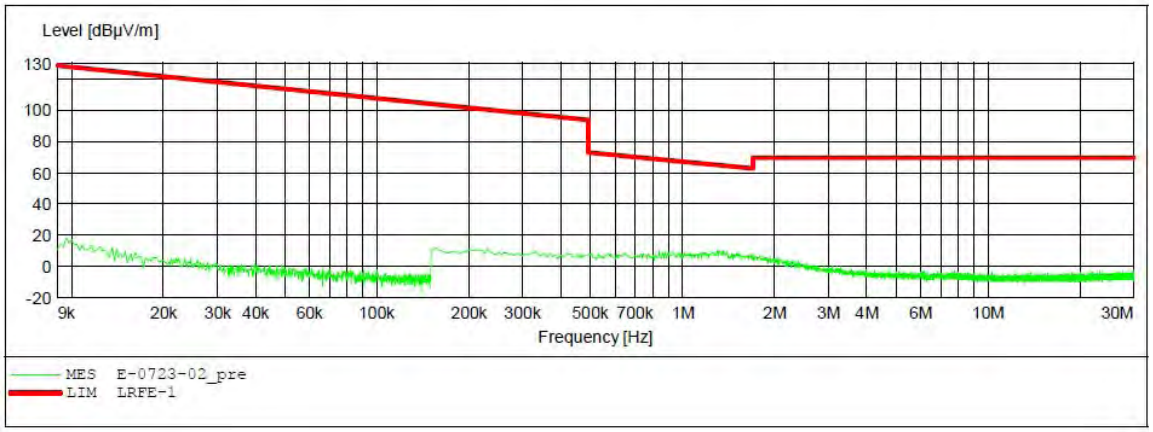
FCC PART 15 3m Radiated

EUT:	4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer:	EDIFIER
Operating Condition:	TX 2402MHz+TX 5730.35MHz
Test Site:	2# Chamber
Operator:	WADE
Test Specification:	AC 120V/60Hz
Comment:	Y
Start of Test:	2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

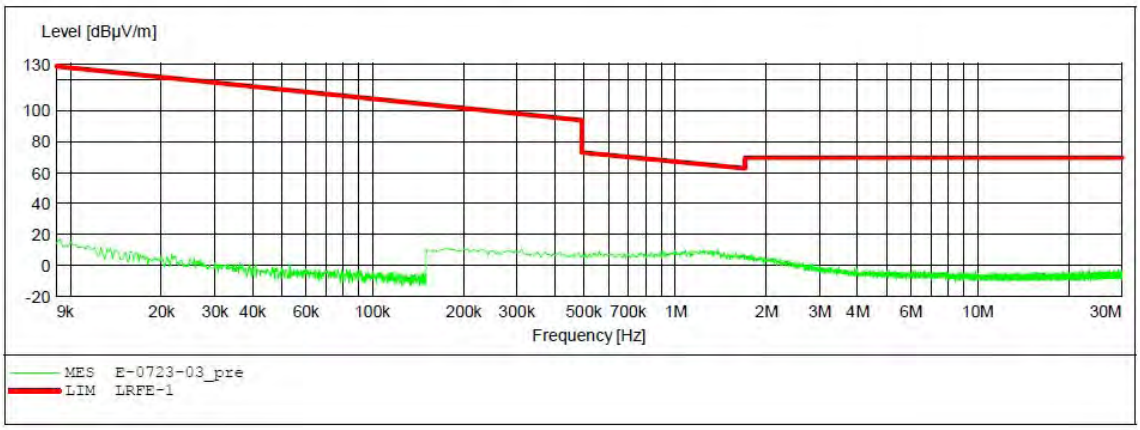
FCC PART 15 3m Radiated

```
EUT:                  4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer:         EDIFIER
Operating Condition:  TX 2402MHz+TX 5730.35MHz
Test Site:            2# Chamber
Operator:             WADE
Test Specification:   AC 120V/60Hz
Comment:              Z
Start of Test:        2018-7-23 /
```

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

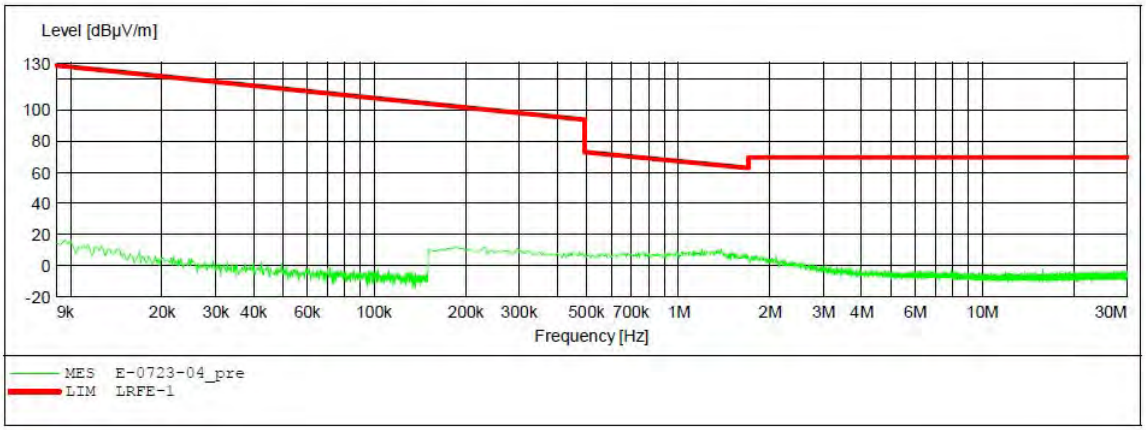
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2441MHz+TX 5776.35MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

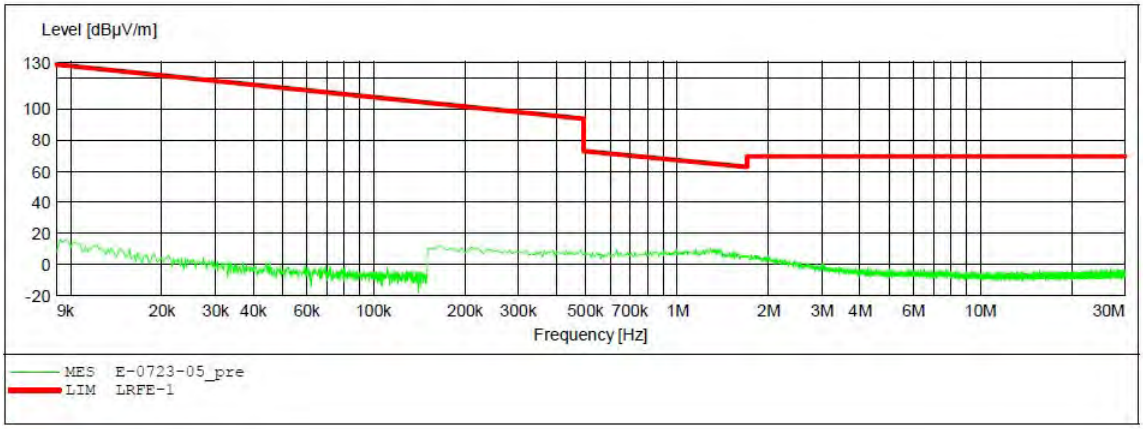
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2441MHz+TX 5776.35MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: Y
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

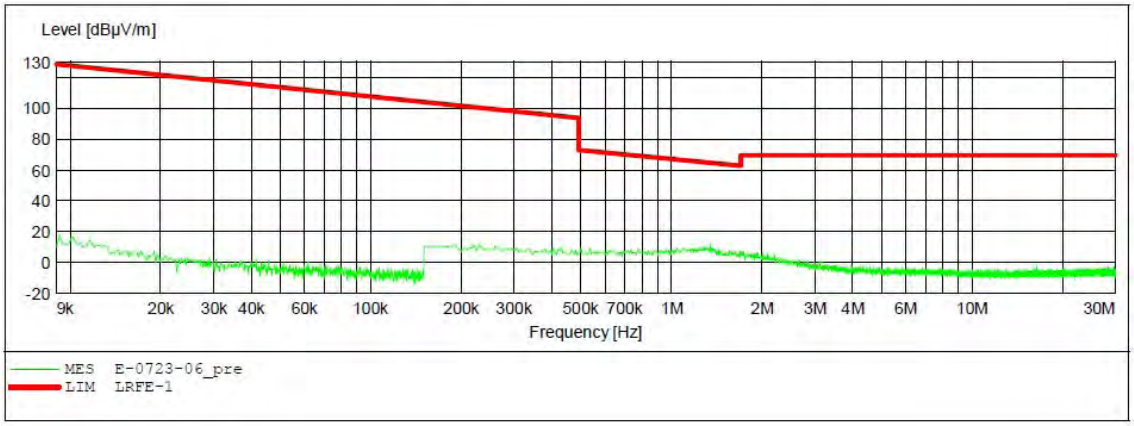
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2441MHz+TX 5776.35MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

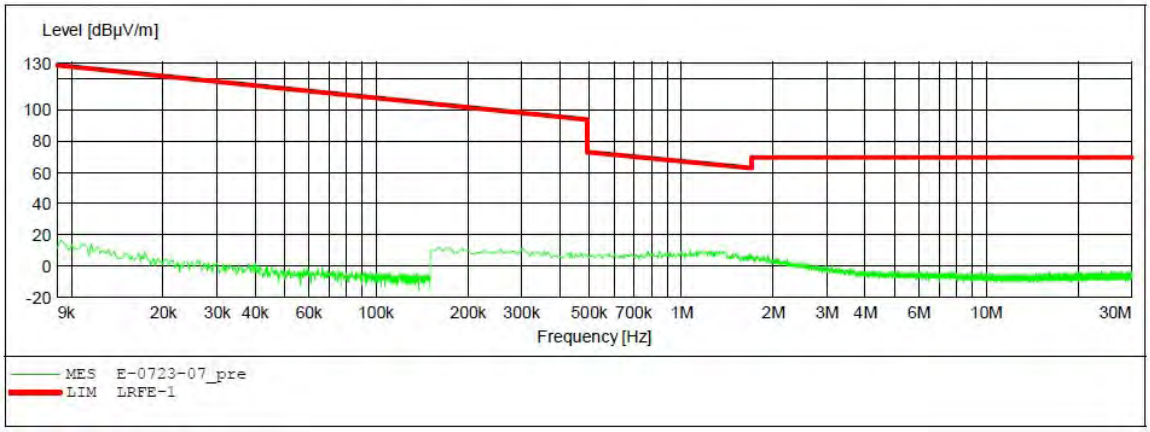
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2480MHz+TX 5820.25MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: X
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

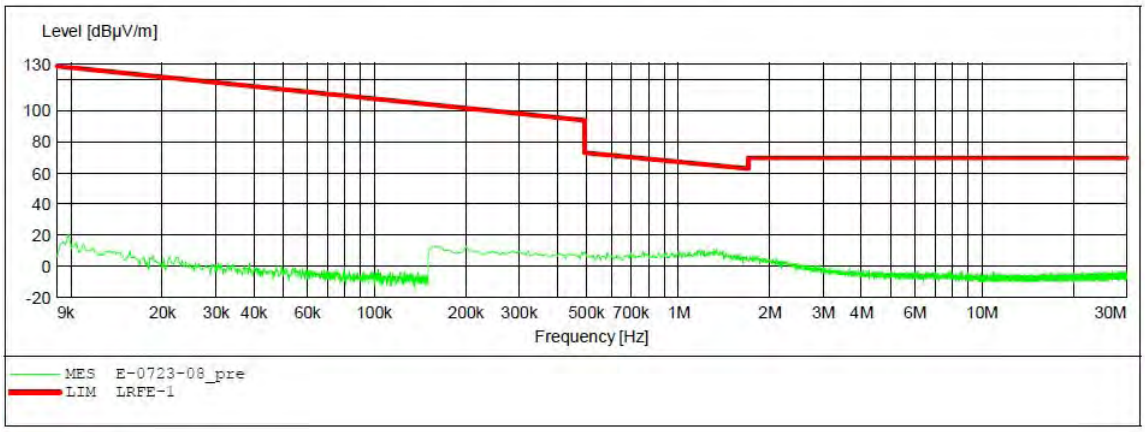
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2480MHz+TX 5820.25MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: Y
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



ACCURATE TECHNOLOGY CO.,LTD

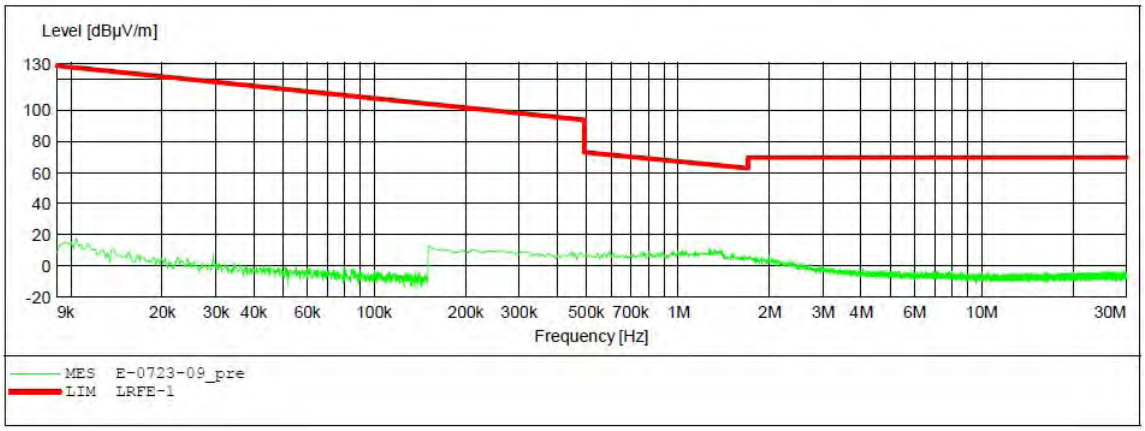
FCC PART 15 3m Radiated

EUT: 4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer: EDIFIER
Operating Condition: TX 2480MHz+TX 5820.25MHz
Test Site: 2# Chamber
Operator: WADE
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2018-7-23 /

SCAN TABLE: "LFRE Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

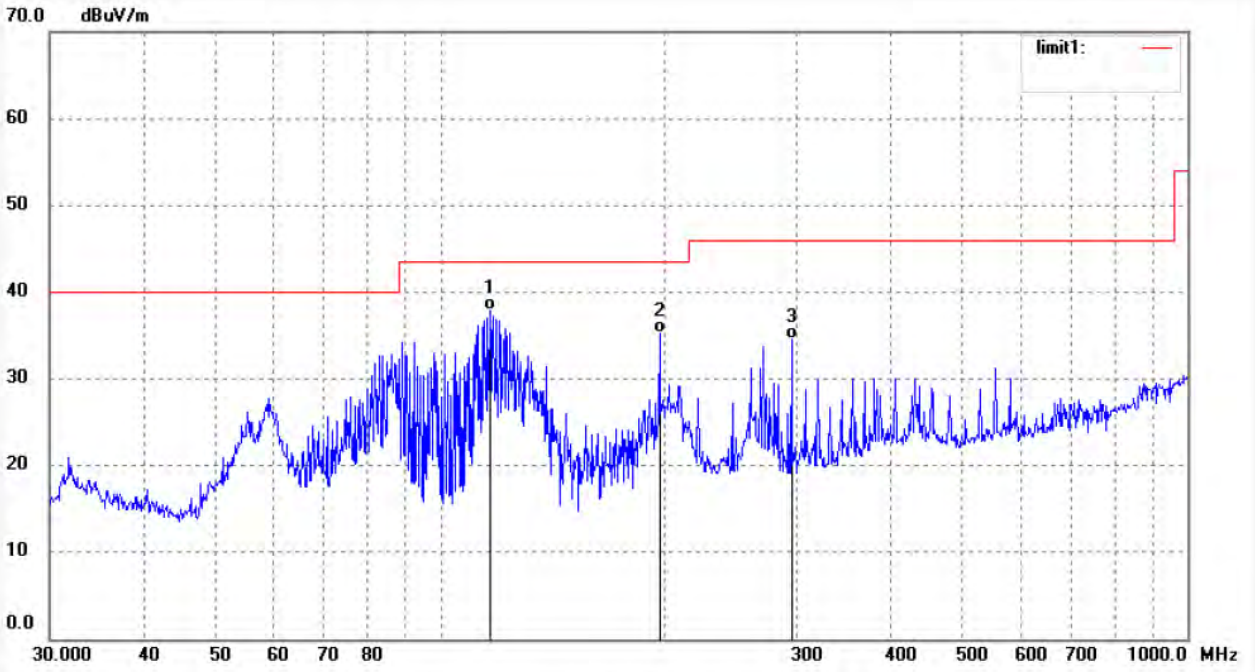


30MHz-1000MHz test data (Bluetooth+5.8G)

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1862	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2402MHz+TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



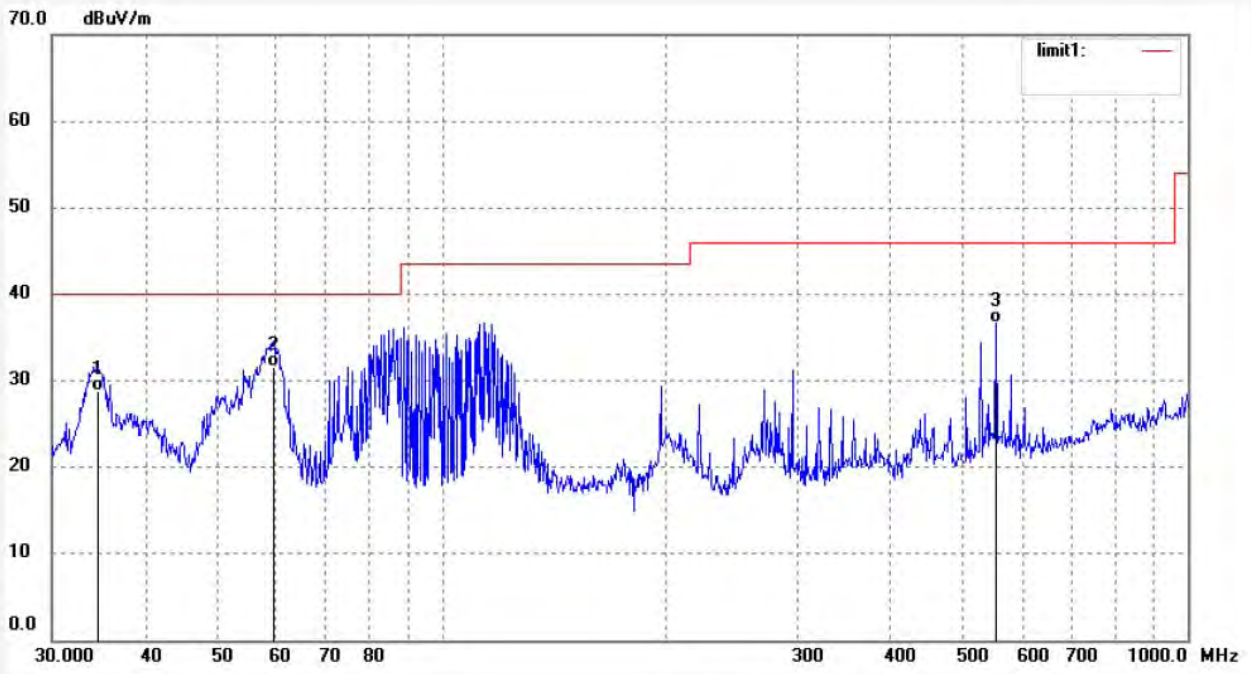
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	116.5400	50.91	-13.06	37.85	43.50	-5.65	QP			
2	196.5098	47.49	-12.30	35.19	43.50	-8.31	QP			
3	295.1469	43.64	-9.10	34.54	46.00	-11.46	QP			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1861
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2402MHz+TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	39.08	-10.32	28.76	40.00	-11.24	QP			
2	59.4405	45.33	-13.80	31.53	40.00	-8.47	QP			
3	552.8831	39.69	-3.00	36.69	46.00	-9.31	QP			

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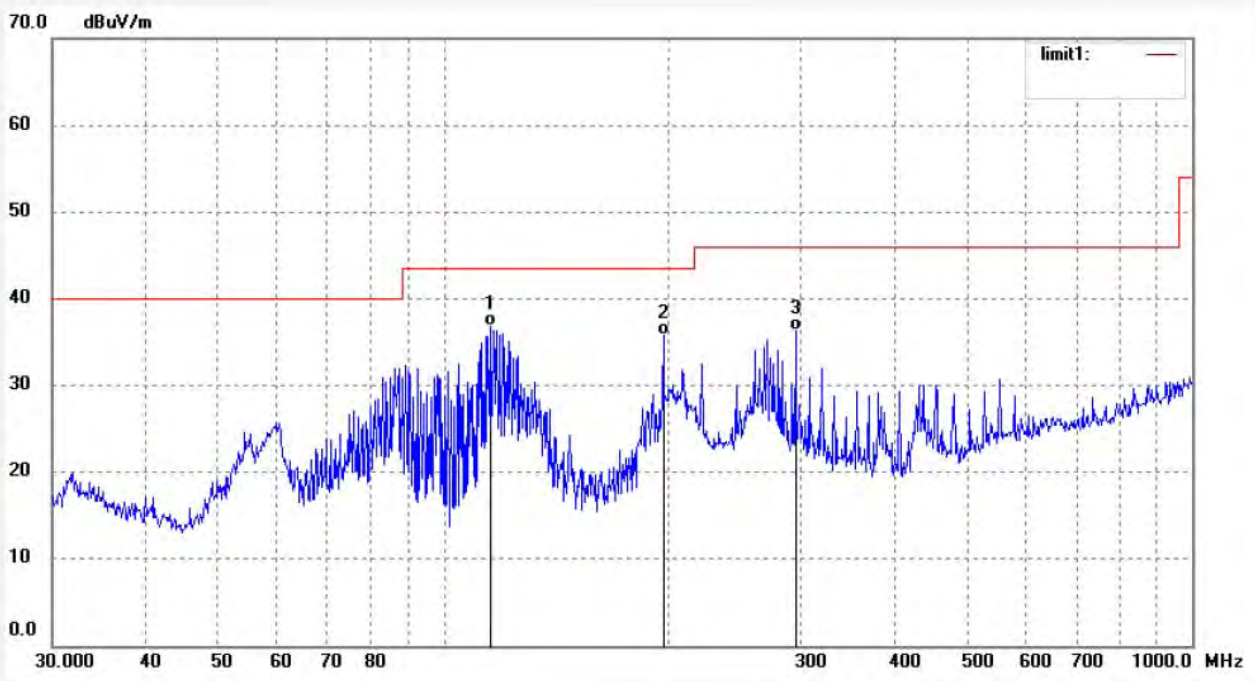
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1863	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2441MHz+TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:

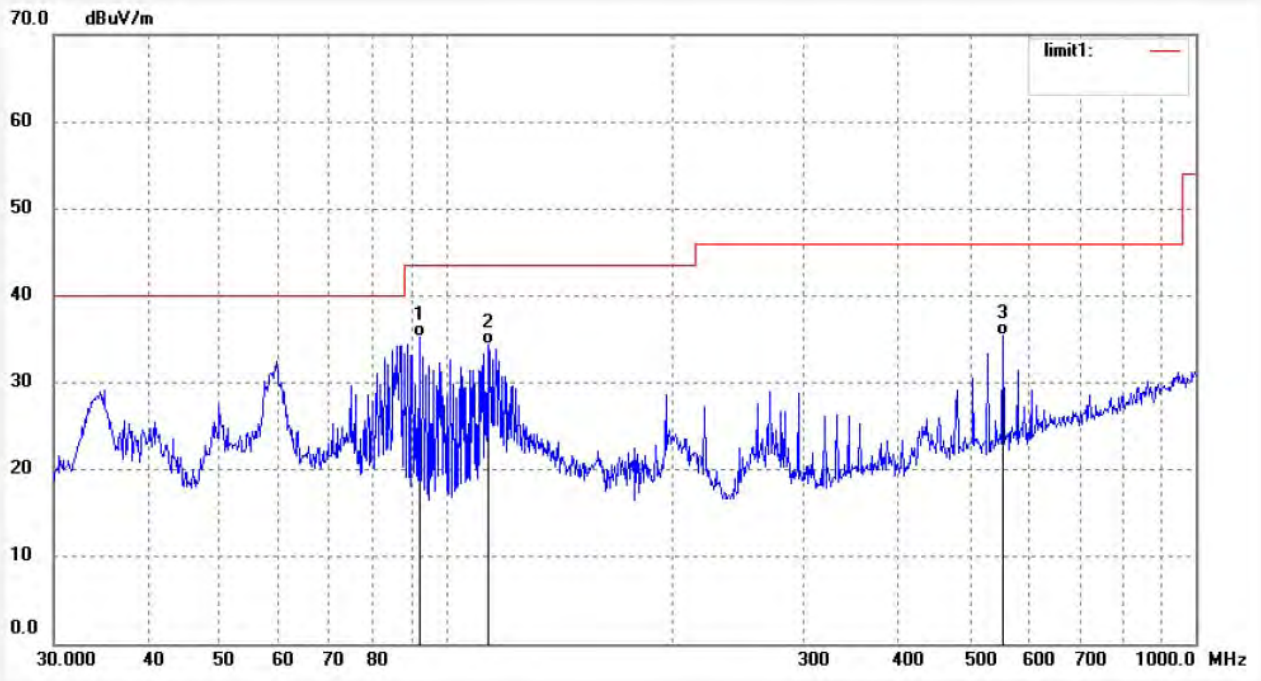


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	115.7256	49.87	-13.06	36.81	43.50	-6.69	QP			
2	196.5098	48.05	-12.30	35.75	43.50	-7.75	QP			
3	295.1469	45.37	-9.10	36.27	46.00	-9.73	QP			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1864	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2441MHz+TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



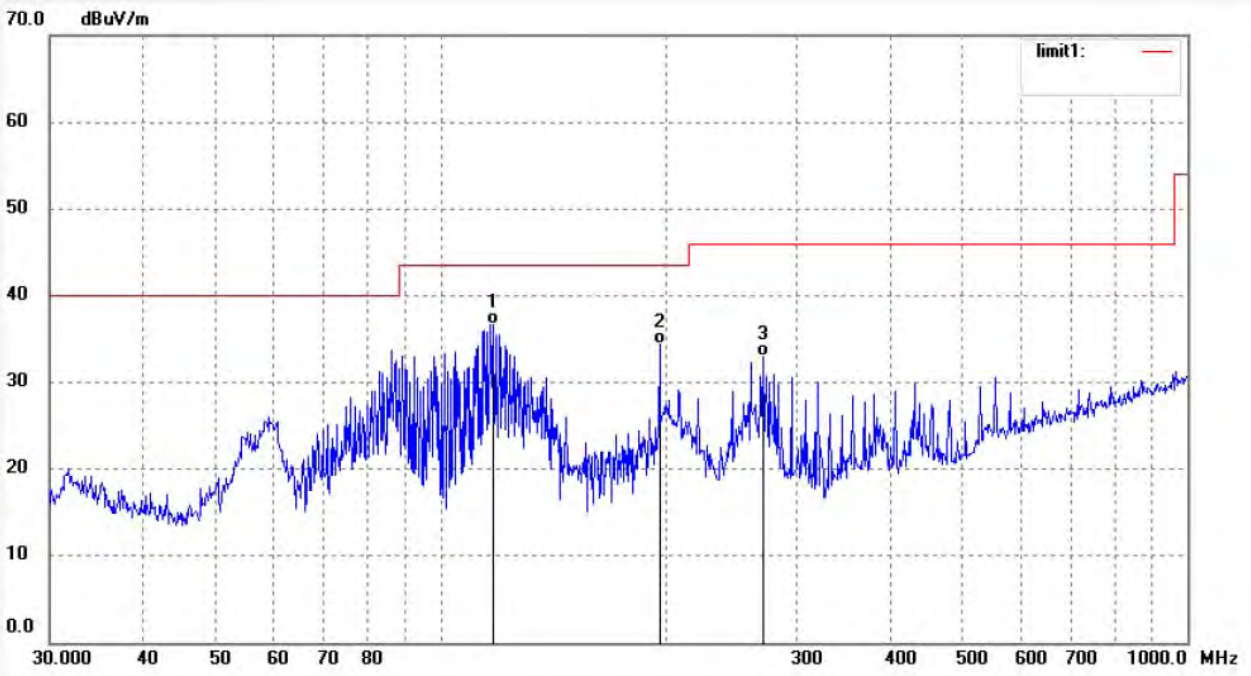
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	92.1388	50.17	-14.89	35.28	43.50	-8.22	QP			
2	113.7142	47.58	-13.25	34.33	43.50	-9.17	QP			
3	552.8831	38.46	-3.00	35.46	46.00	-10.54	QP			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1866
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2480MHz+TX 5820.25MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:

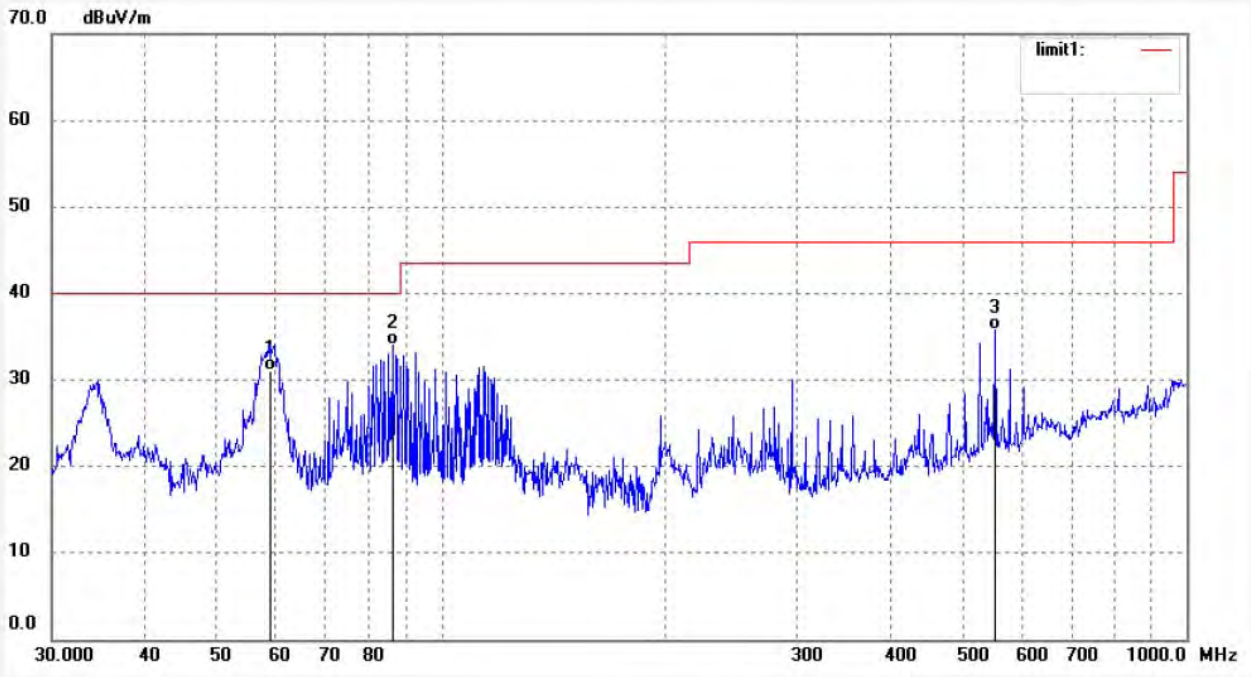


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.7724	49.68	-13.05	36.63	43.50	-6.87	QP			
2	196.5098	46.73	-12.30	34.43	43.50	-9.07	QP			
3	270.3747	42.87	-9.92	32.95	46.00	-13.05	QP			

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1865	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2480MHz+TX 5820.25MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



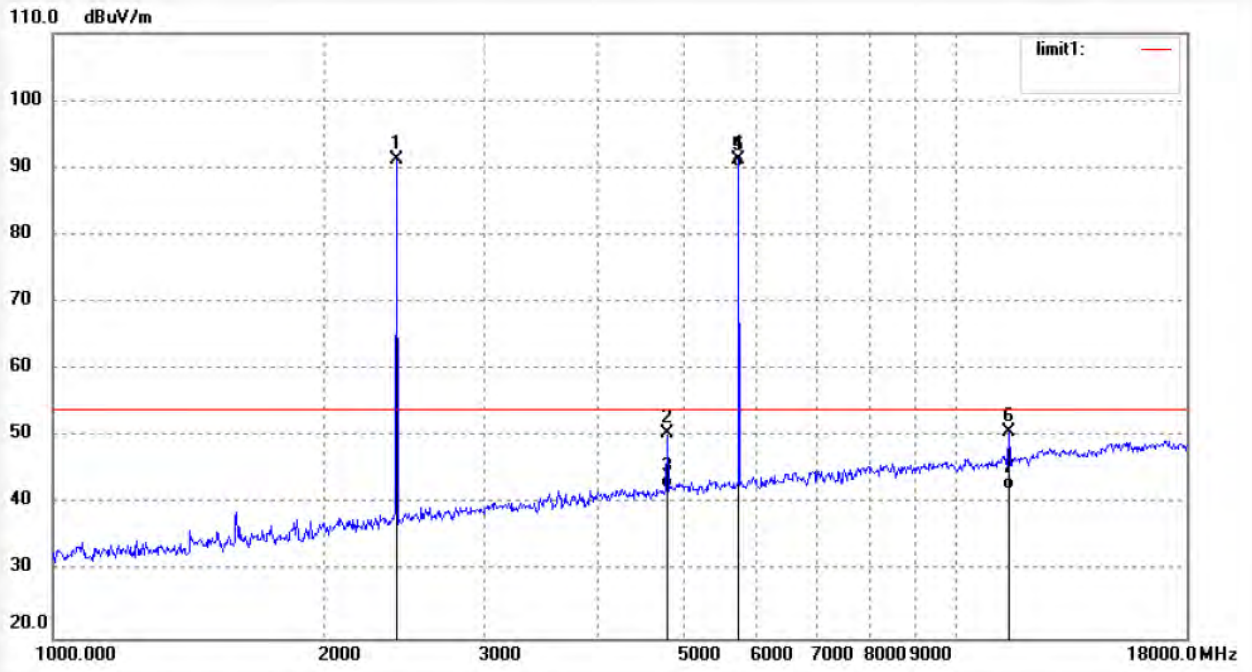
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	59.0251	44.80	-13.72	31.08	40.00	-8.92	QP			
2	85.8983	49.32	-15.27	34.05	40.00	-5.95	QP			
3	552.8831	38.84	-3.00	35.84	46.00	-10.16	QP			

1GHz-18GHz test data (Bluetooth+5.8G)

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2018 #1867	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2402MHz+TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	90.24	0.89	91.13	/	/	peak			
2	4804.024	43.16	7.40	50.56	74.00	-23.44	peak			
3	4804.024	35.05	7.40	42.45	54.00	-11.55	AVG			
4	5730.350	81.00	10.18	91.18	114.00	-22.82	peak			
5	5730.350	79.90	10.18	90.08	94.00	-3.92	AVG			
6	11460.745	30.79	19.86	50.65	74.00	-23.35	peak			
7	11460.745	22.37	19.86	42.23	54.00	-11.77	AVG			

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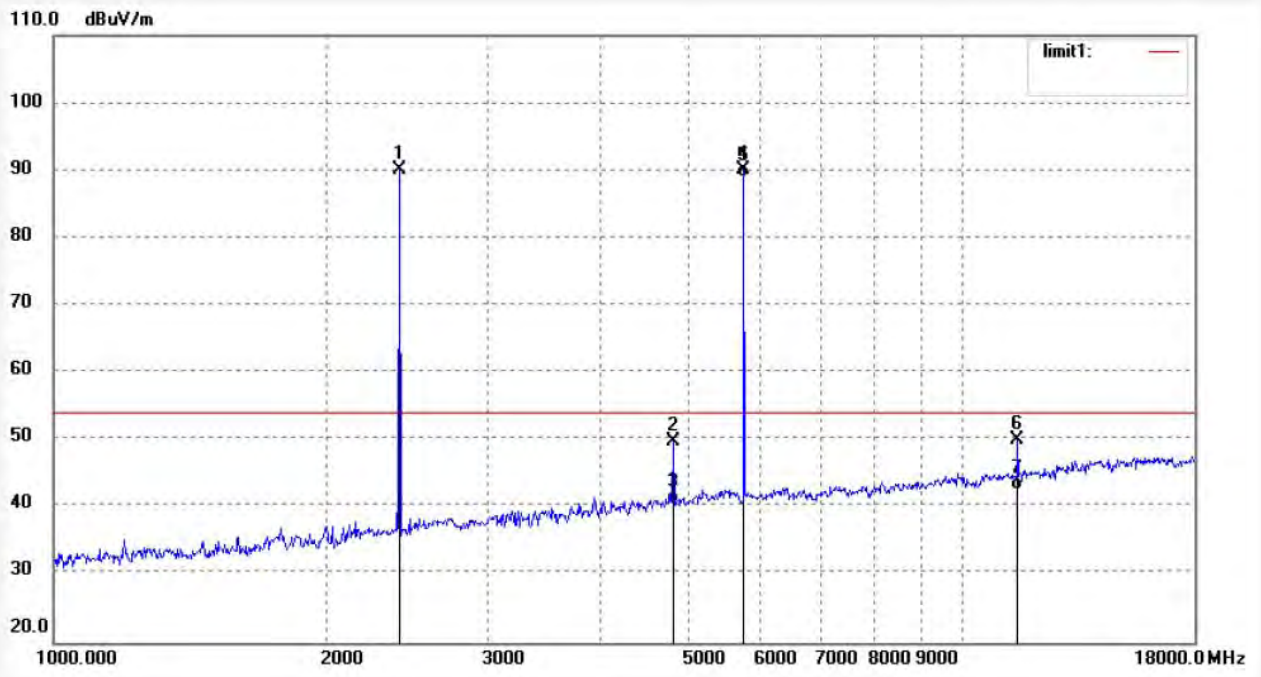
Job No.: LGW2018 #1868
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2402MHz+TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	89.17	0.89	90.06	/	/	peak			
2	4804.025	42.38	7.40	49.78	74.00	-24.22	peak			
3	4804.025	33.17	7.40	40.57	54.00	-13.43	AVG			
4	5730.350	79.83	10.18	90.01	114.00	-23.99	peak			
5	5730.350	78.73	10.18	88.91	94.00	-5.09	AVG			
6	11460.731	30.19	19.86	50.05	74.00	-23.95	peak			
7	11460.731	22.71	19.86	42.57	54.00	-11.43	AVG			

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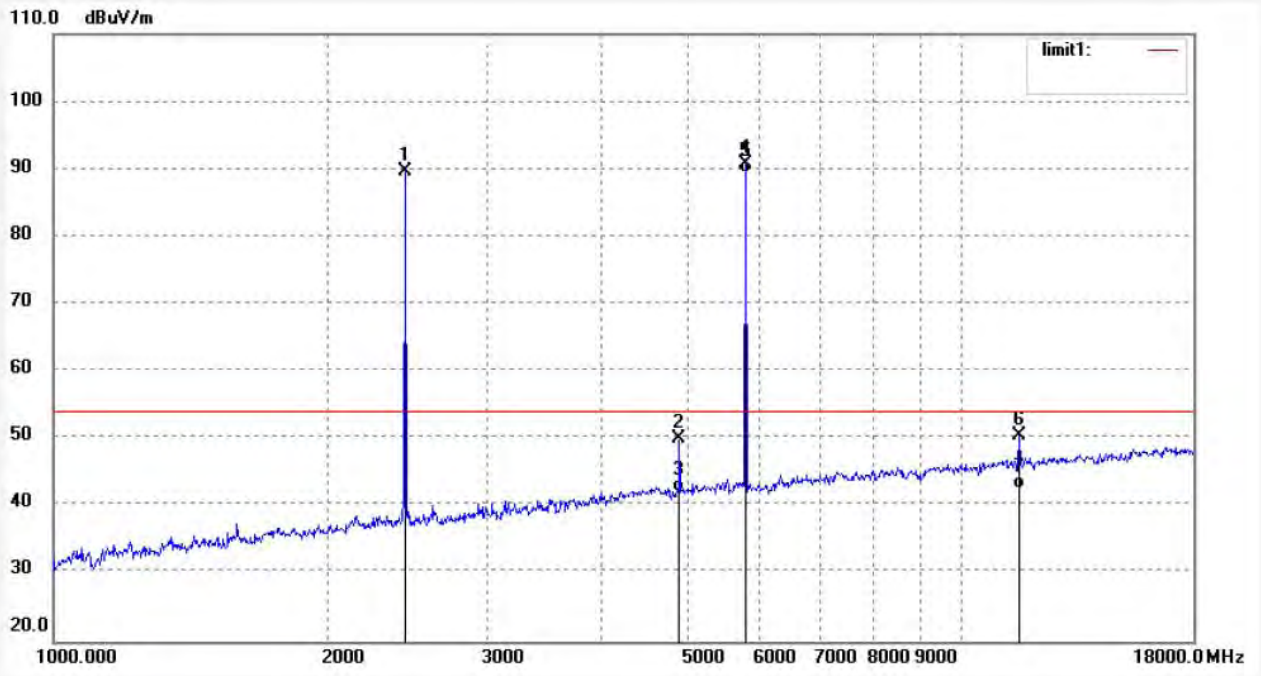
Job No.: LGW2018 #1869
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2441MHz+TX 5776.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	88.64	1.06	89.70	/	/	peak			
2	4882.027	41.89	8.11	50.00	74.00	-24.00	peak			
3	4882.027	34.01	8.11	42.12	54.00	-11.88	AVG			
4	5776.350	80.35	10.44	90.79	114.00	-23.21	peak			
5	5776.350	79.05	10.44	89.49	94.00	-4.51	AVG			
6	11552.735	30.38	20.17	50.55	74.00	-23.45	peak			
7	11552.735	22.40	20.17	42.57	54.00	-11.43	AVG			

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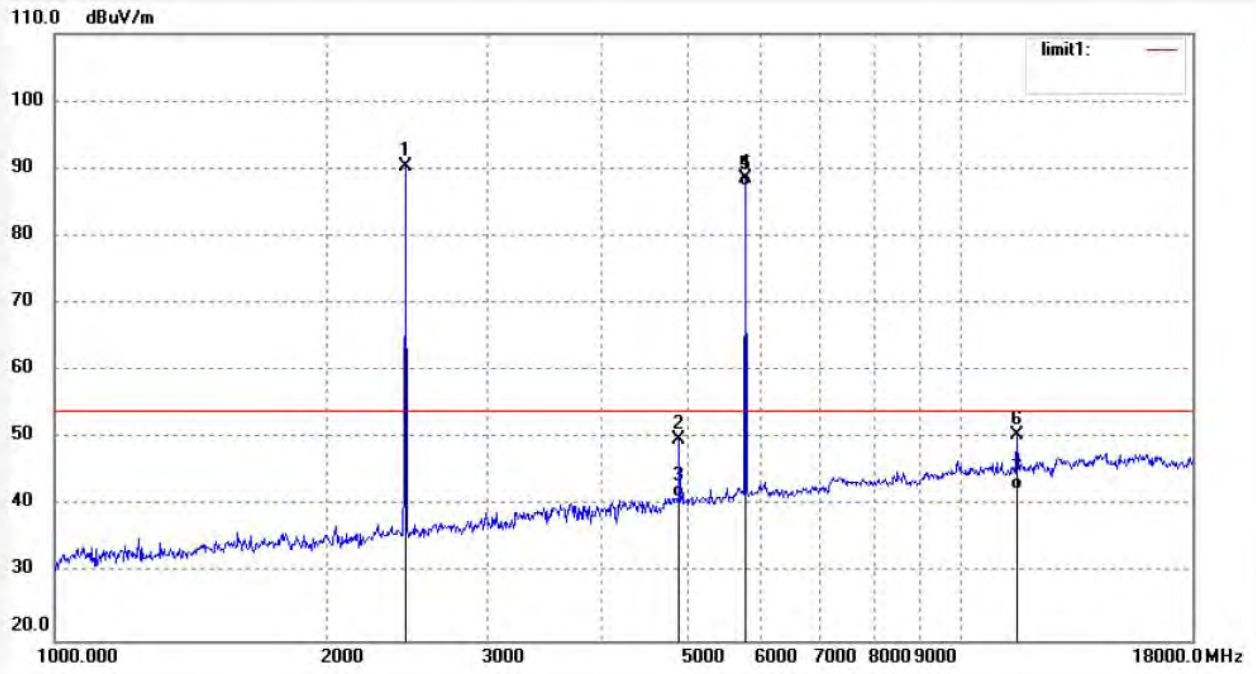
Job No.: LGW2018 #1870
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2441MHz+TX 5776.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	89.25	1.06	90.31	/	/	peak			
2	4882.025	41.81	8.11	49.92	74.00	-24.08	peak			
3	4882.025	33.13	8.11	41.24	54.00	-12.76	AVG			
4	5776.350	78.15	10.44	88.59	114.00	-25.41	peak			
5	5776.350	76.85	10.44	87.29	94.00	-6.71	AVG			
6	11552.737	30.34	20.17	50.51	74.00	-23.49	peak			
7	11552.737	22.29	20.17	42.46	54.00	-11.54	AVG			

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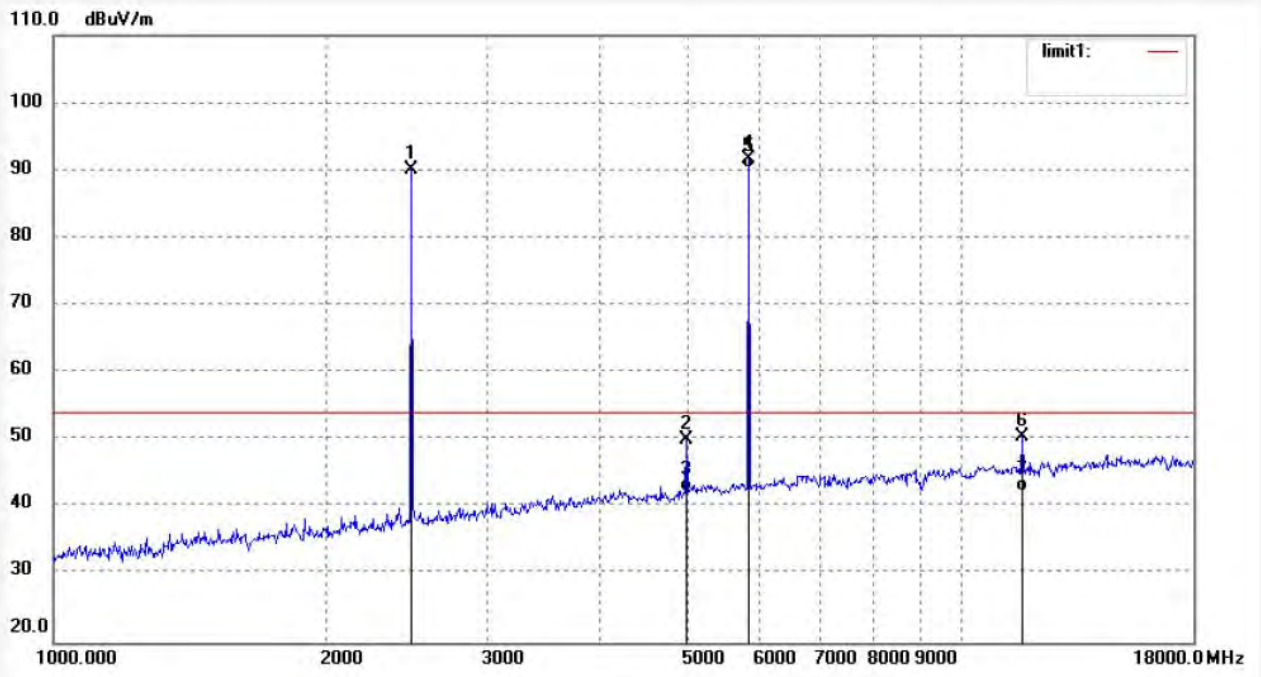
Job No.: LGW2018 #1872
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2480MHz+TX 5820.25MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	89.00	1.10	90.10	/	/	peak			
2	4960.029	41.44	8.60	50.04	74.00	-23.96	peak			
3	4960.029	33.75	8.60	42.35	54.00	-11.65	AVG			
4	5820.350	80.95	10.66	91.61	114.00	-22.39	peak			
5	5820.350	79.55	10.66	90.21	94.00	-3.79	AVG			
6	11640.748	29.83	20.71	50.54	74.00	-23.46	peak			
7	11640.748	21.62	20.71	42.33	54.00	-11.67	AVG			

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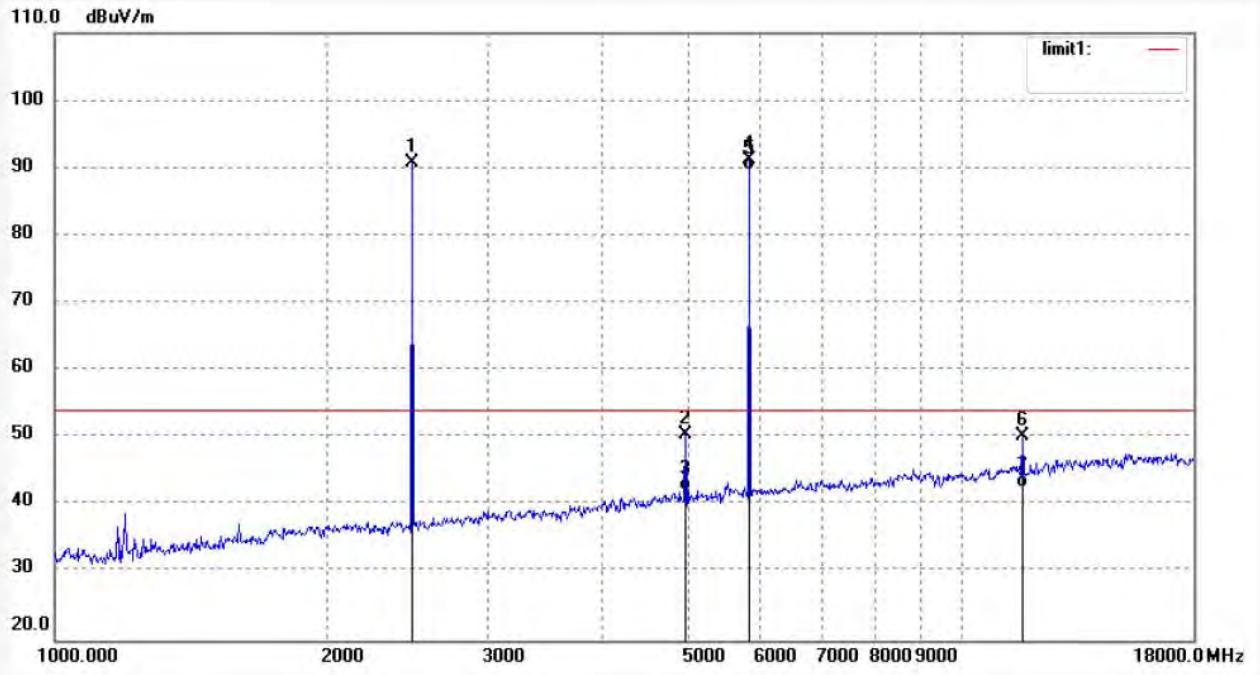
Job No.: LGW2018 #1871
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2480MHz+TX 5820.25MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	89.71	1.10	90.81	/	/	peak			
2	4960.027	41.84	8.60	50.44	74.00	-23.56	peak			
3	4960.027	33.52	8.60	42.12	54.00	-11.88	AVG			
4	5820.350	80.49	10.66	91.15	114.00	-22.85	peak			
5	5820.350	79.09	10.66	89.75	94.00	-4.25	AVG			
6	11640.744	29.50	20.71	50.21	74.00	-23.79	peak			
7	11640.744	21.85	20.71	42.56	54.00	-11.44	AVG			

18GHz-26.5GHz test data (Bluetooth+5.8G)

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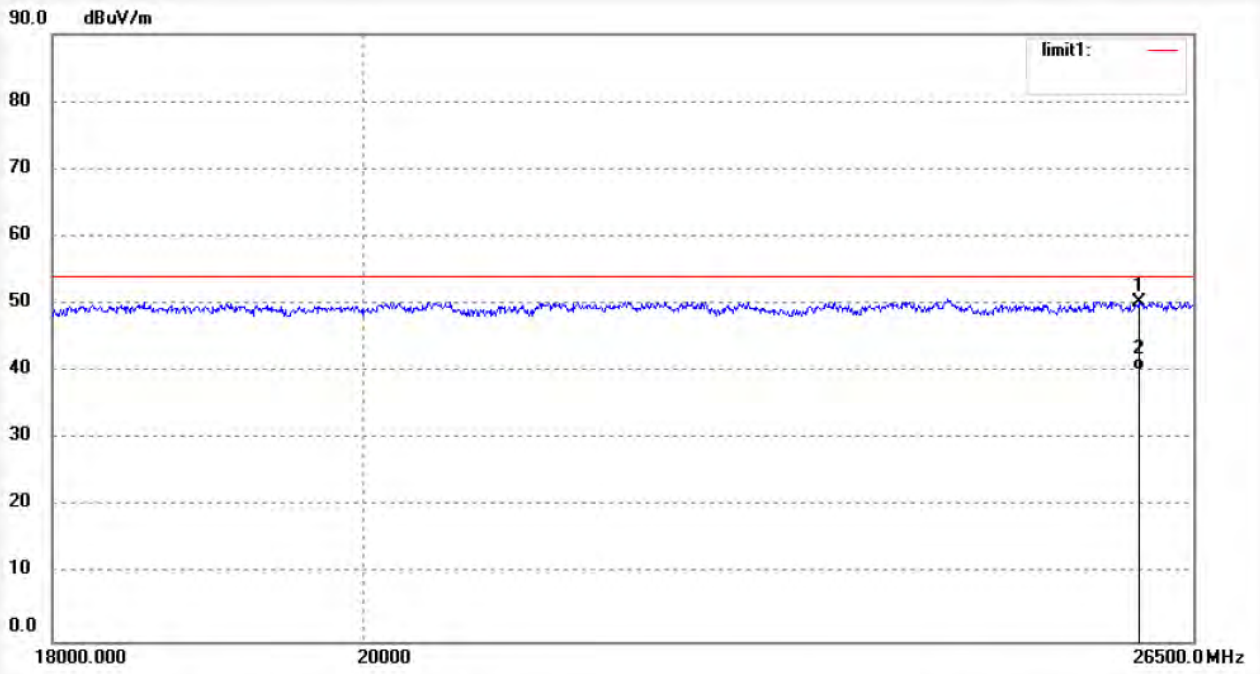
Job No.: LGW2018 #1874	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2402MHz+TX 5730.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26012.563	9.95	40.25	50.20	74.00	-23.80	peak			
2	26012.563	-0.13	40.25	40.12	54.00	-13.88	AVG			

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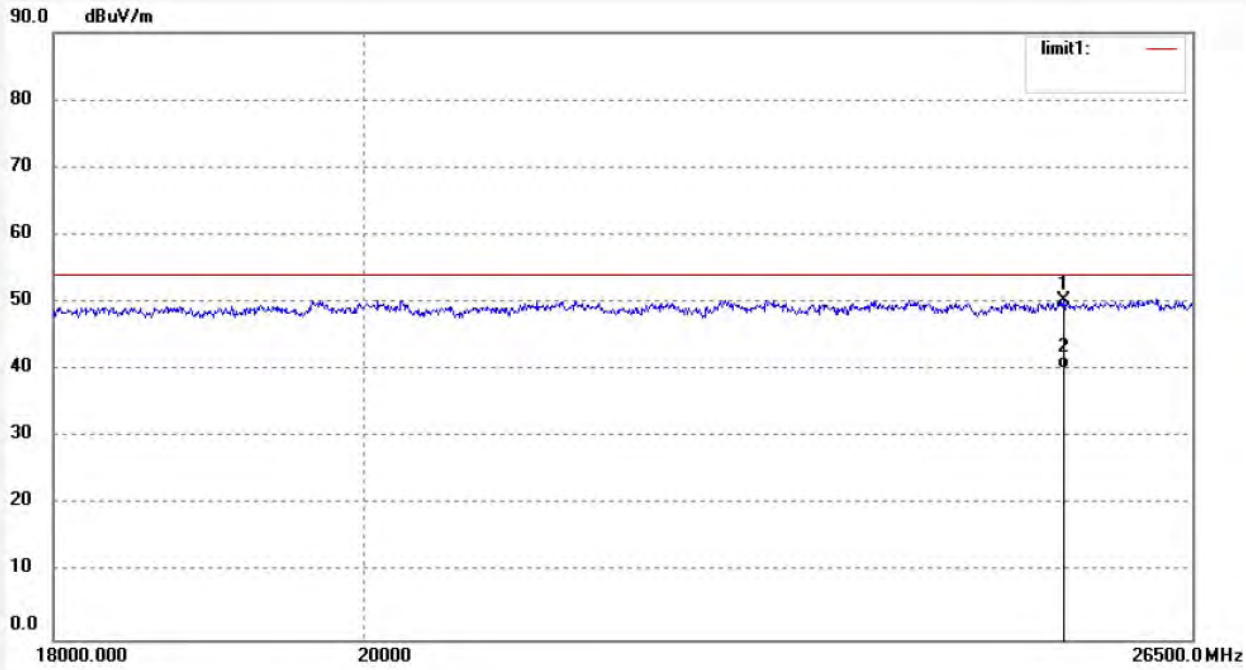
Job No.: LGW2018 #1873
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2402MHz+TX 5730.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25366.753	9.27	41.09	50.36	74.00	-23.64	peak			
2	25366.753	-0.87	41.09	40.22	54.00	-13.78	AVG			

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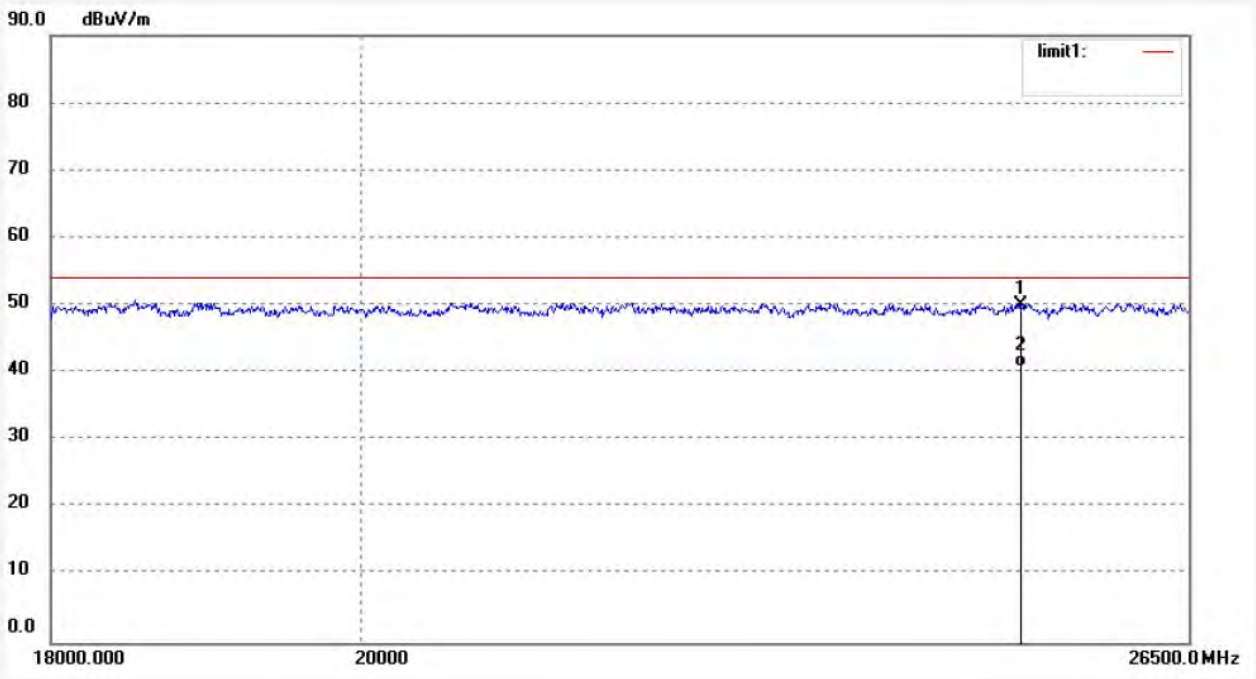
Job No.: LGW2018 #1875	Polarization: Horizontal
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2441MHz+TX 5776.35MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25035.357	10.33	39.76	50.09	74.00	-23.91	peak			
2	25035.357	1.02	39.76	40.78	54.00	-13.22	AVG			

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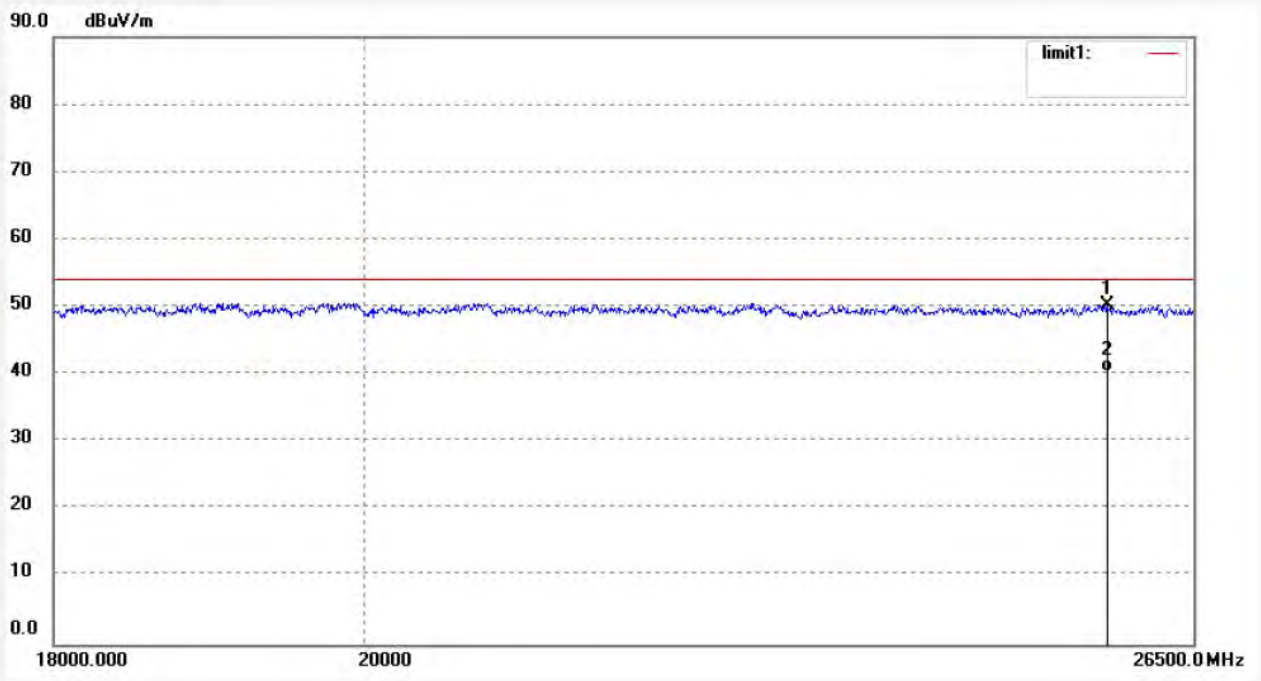
Job No.: LGW2018 #1876
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2441MHz+TX 5776.35MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25732.376	9.27	41.02	50.29	74.00	-23.71	peak			
2	25732.376	-0.52	41.02	40.50	54.00	-13.50	AVG			

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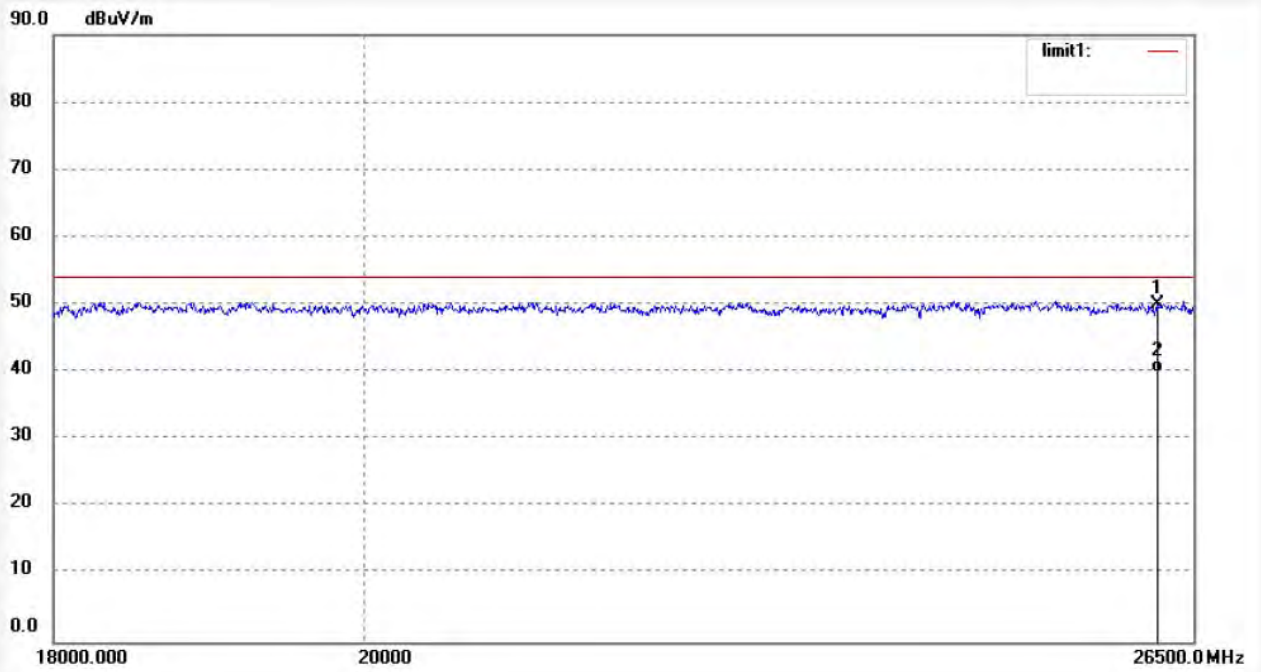
Job No.: LGW2018 #1878
Standard: FCC PART 15 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: 4.1 Channel SoundBar (Home Theater System)
Mode: TX 2480MHz+TX 5820.25MHz
Model: S90
Manufacturer: EDIFIER

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 18/07/23/
Time:
Engineer Signature: WADE
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26174.038	9.67	40.33	50.00	74.00	-24.00	peak			
2	26174.038	-0.32	40.33	40.01	54.00	-13.99	AVG			

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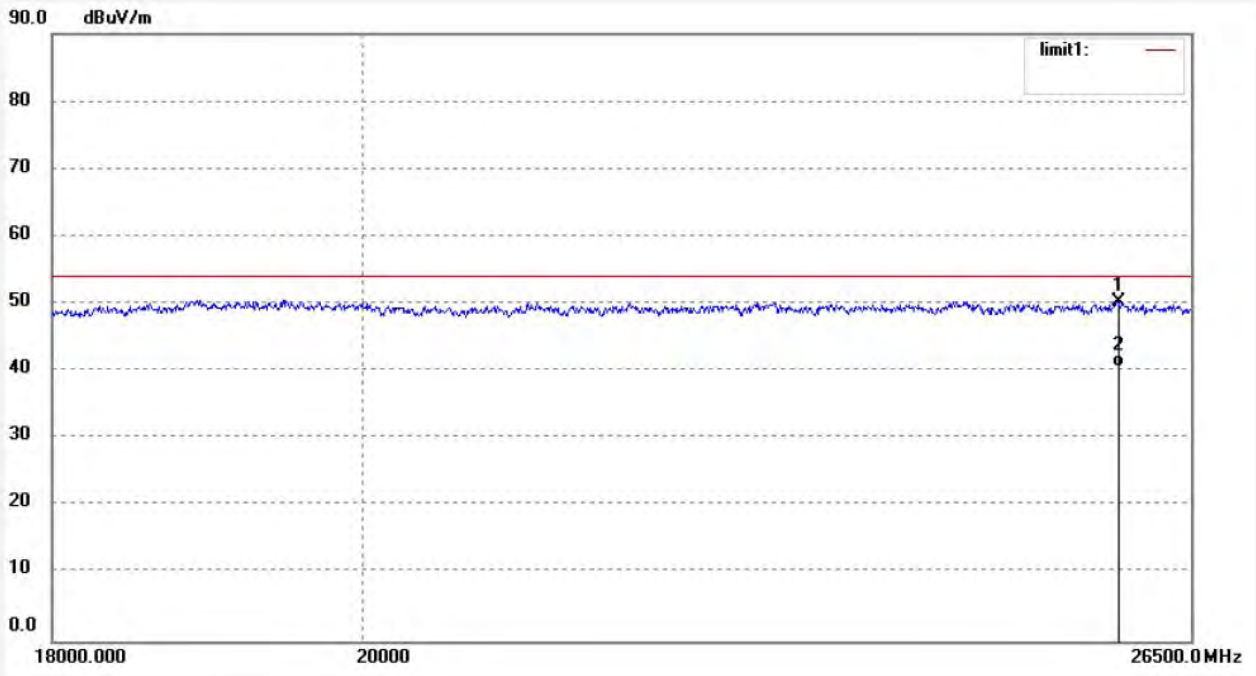
Job No.: LGW2018 #1877	Polarization: Vertical
Standard: FCC PART 15 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/23/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2480MHz+TX 5820.25MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

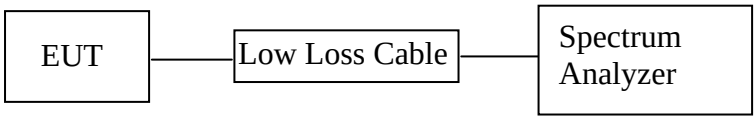
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25852.085	9.36	41.00	50.36	74.00	-23.64	peak			
2	25852.085	-0.42	41.00	40.58	54.00	-13.42	AVG			

12.BAND EDGE COMPLIANCE TEST

12.1.Block Diagram of Test Setup



12.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

12.3.The Requirement For RSS-247 Section 5.5

Section 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

12.4.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.5.Operating Condition of EUT

12.5.1.Setup the EUT and simulator as shown as Section 12.1.

12.5.2.Turn on the power of all equipment.

12.5.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

12.6.Test Procedure

12.6.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

12.6.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

12.6.3.The band edges was measured and recorded.

12.7.Test Result

Non-hopping mode

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)	Result
GFSK mode			
2400.00	49.30	> 20dBc	PASS
2483.50	61.40	> 20dBc	PASS
8DPSK mode			
2400.00	47.78	> 20dBc	PASS
2490.30	56.80	> 20dBc	PASS

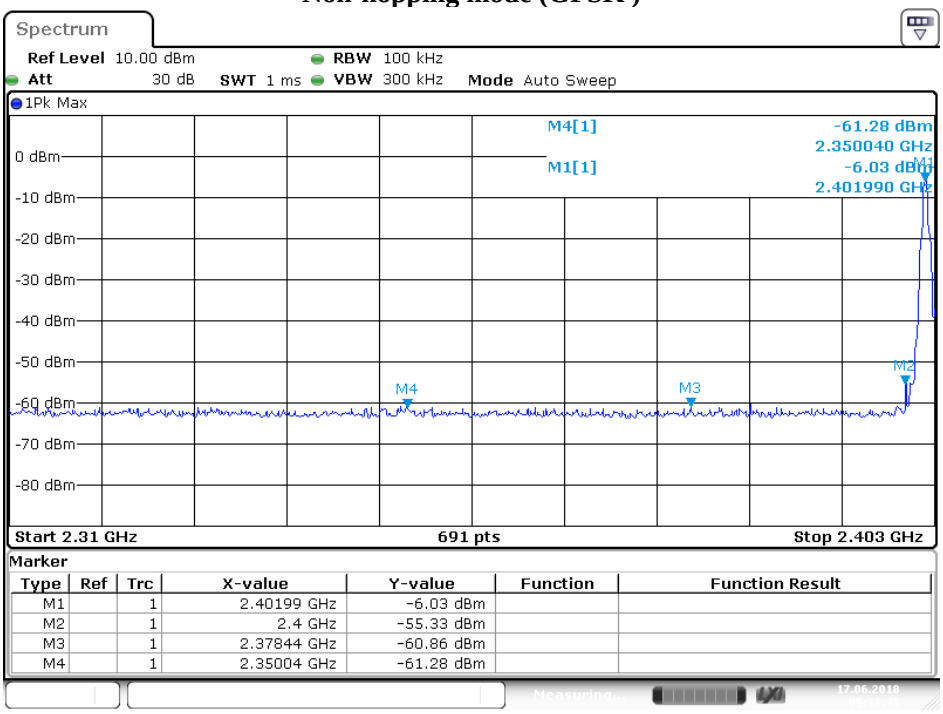
Hopping mode

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)	Result
GFSK mode			
2400.00	50.85	> 20dBc	PASS
2486.00	53.98	> 20dBc	PASS
8DPSK mode			
2372.35	51.63	> 20dBc	PASS
2484.97	53.68	> 20dBc	PASS

Note: This testing was carried out on all operation modes, but only the worst case was presented in this report.

The spectrum analyzer plots are attached as below.

Non-hopping mode (GFSK)



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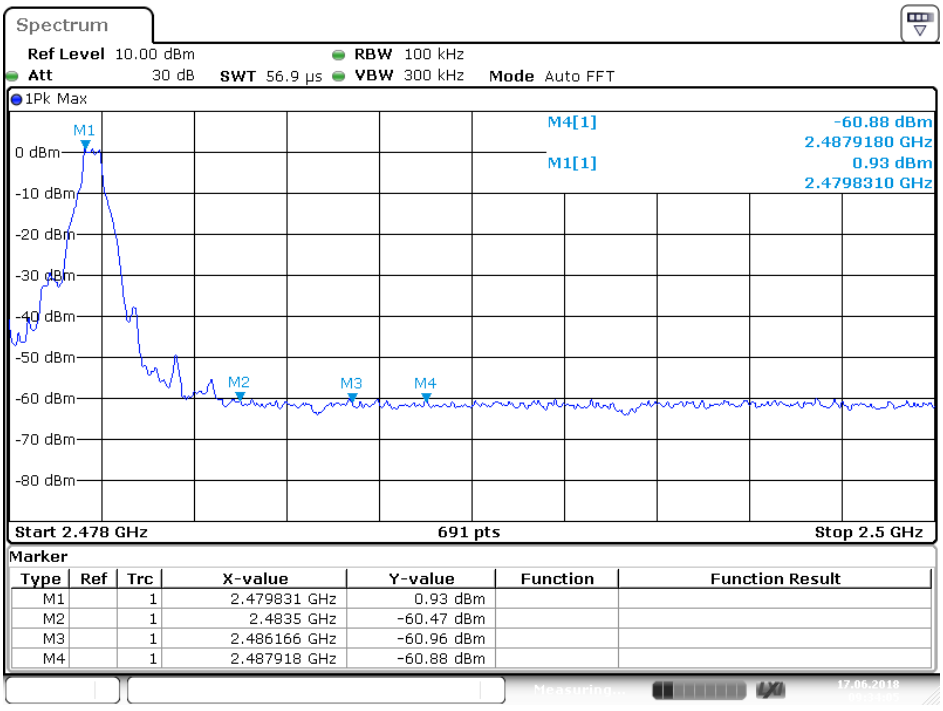

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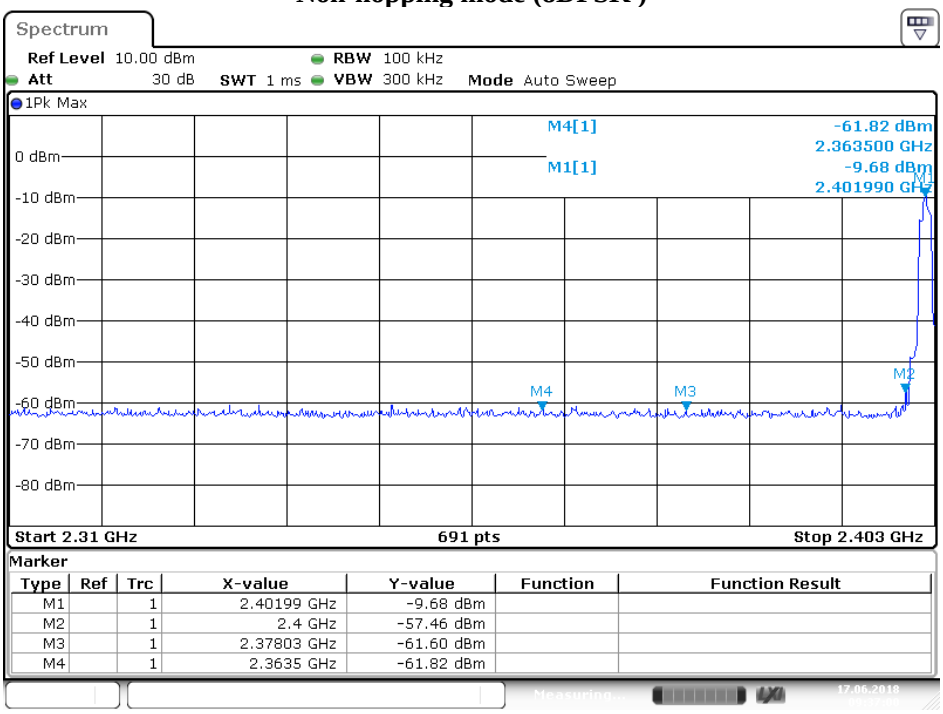
Non-hopping mode (8DPSK)



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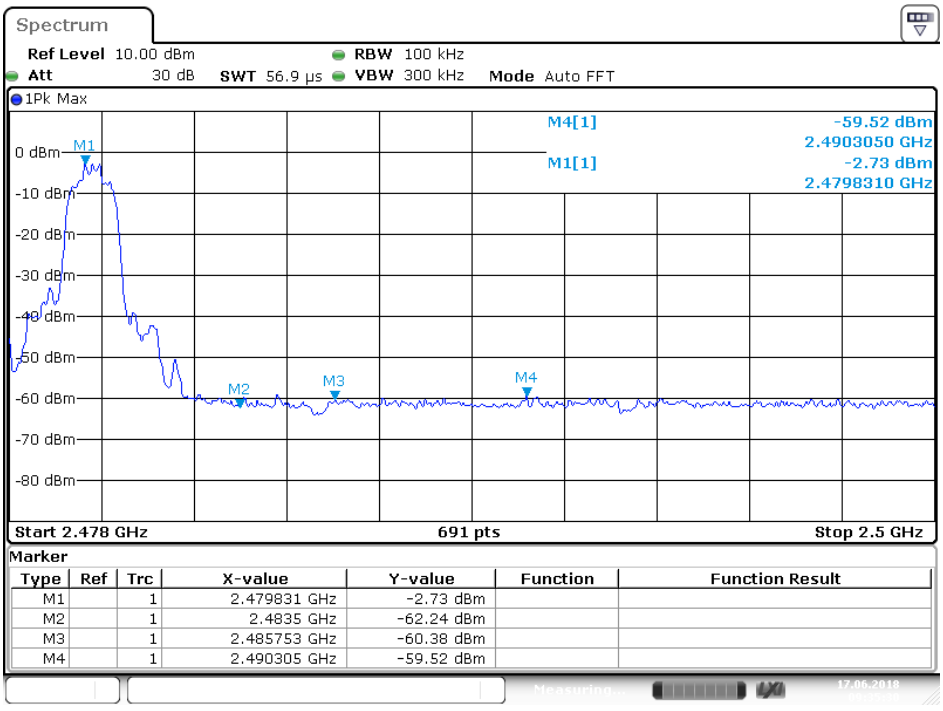
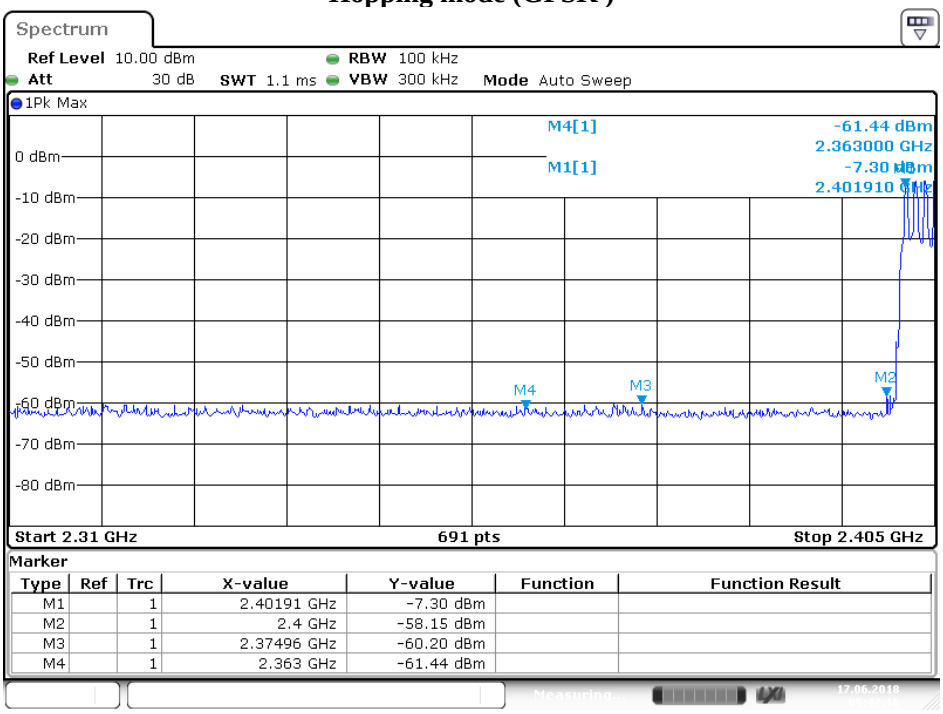
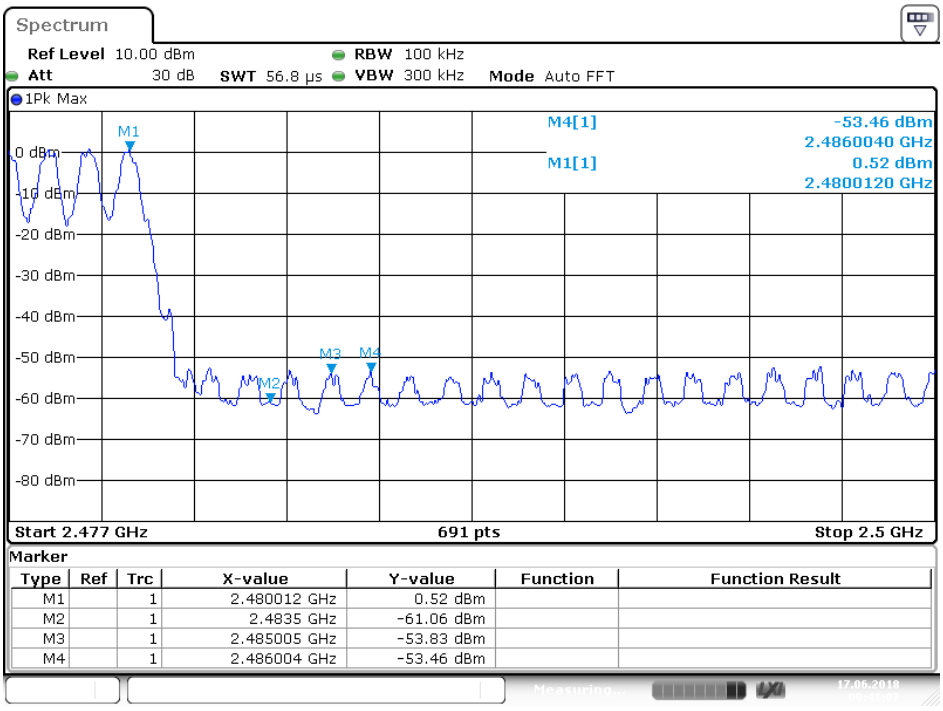


Date: 17.JUN.2018 09:35:31

Hopping mode (GFSK)

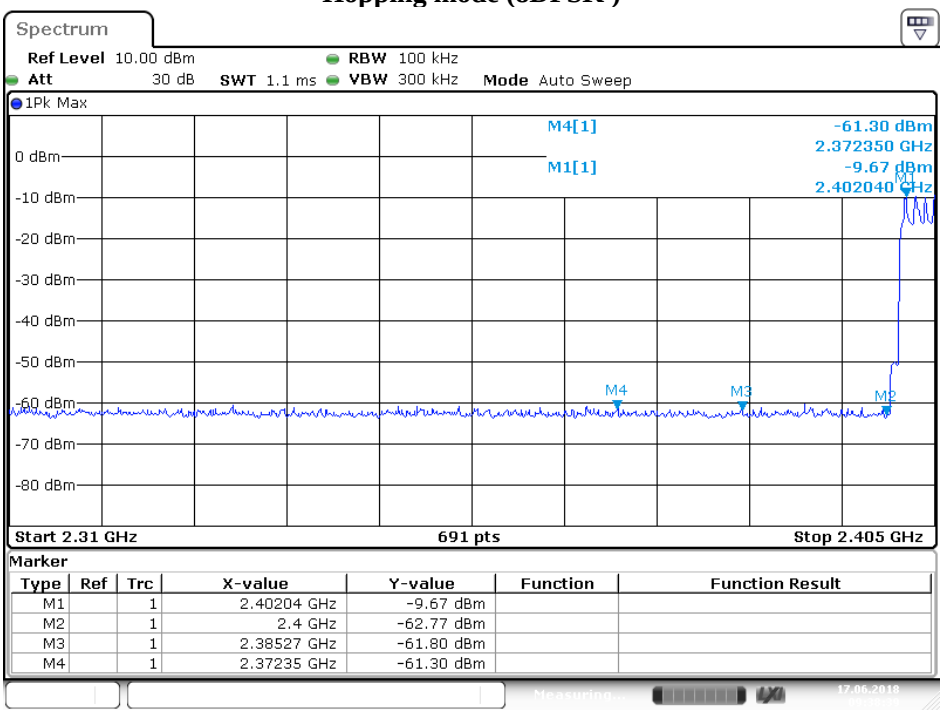


Date: 17.JUN.2018 09:42:17

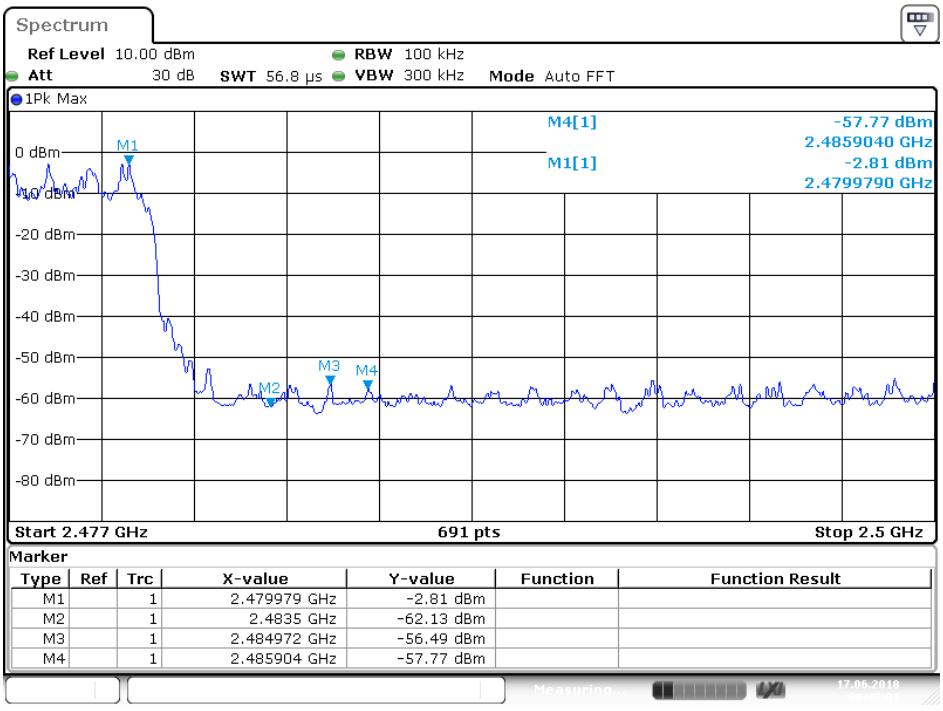


Date: 17.JUN.2018 09:41:08

Hopping mode (8DPSK)



Date: 17.JUN.2018 09:38:39



Date: 17.JUN.2018 09:40:01

Radiated Band Edge Result

Note:
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it.
We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode).
We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:
1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
3.All modes of operation were investigated and the worst-case(GFSK) emissions are reported.

Non-hopping mode

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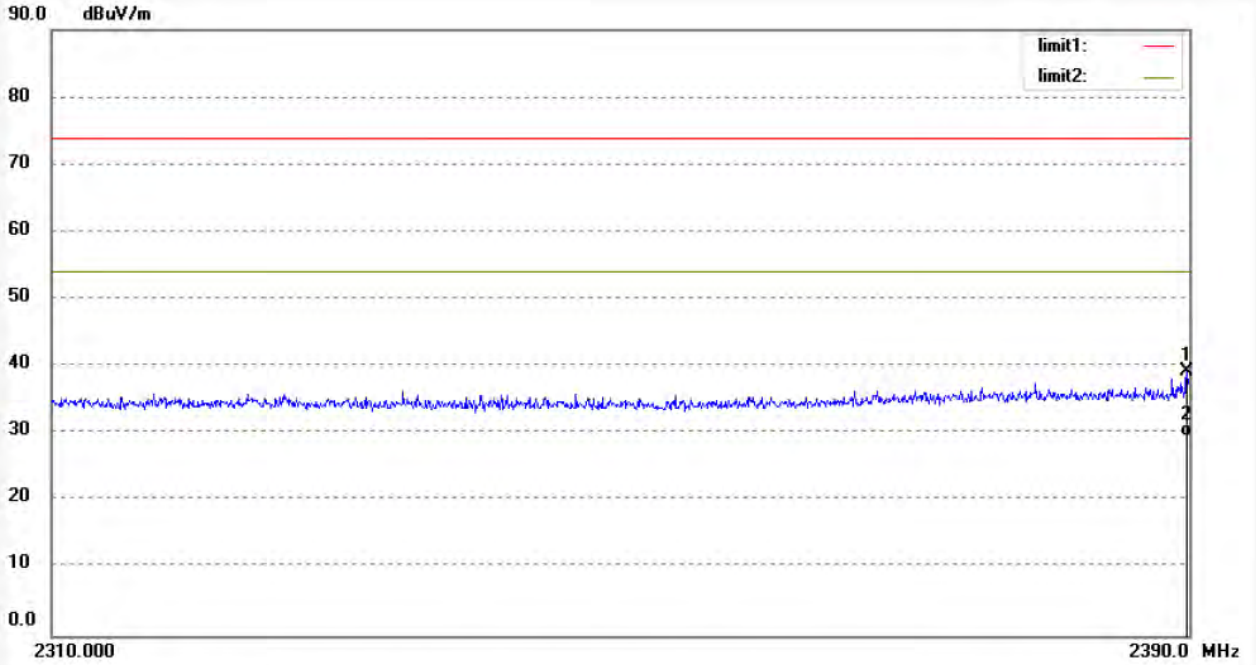
Fax:+86-0755-26503396

Job No.: LGW2018 #1717	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.840	38.42	0.79	39.21	74.00	-34.79	peak			
2	2389.840	28.82	0.79	29.61	54.00	-24.39	AVG			

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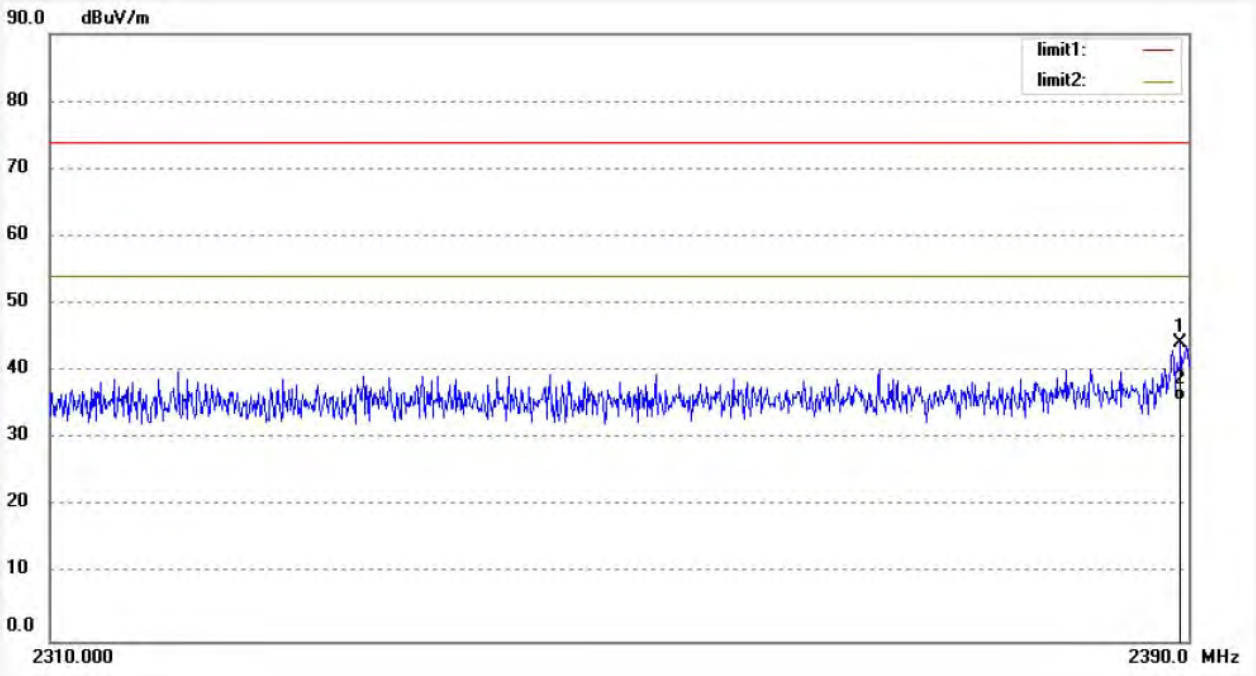
Job No.: LGW2018 #1716	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2402MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2389.440	43.53	0.79	44.32	74.00	-29.68	peak			
2	2389.440	34.85	0.79	35.64	54.00	-18.36	AVG			

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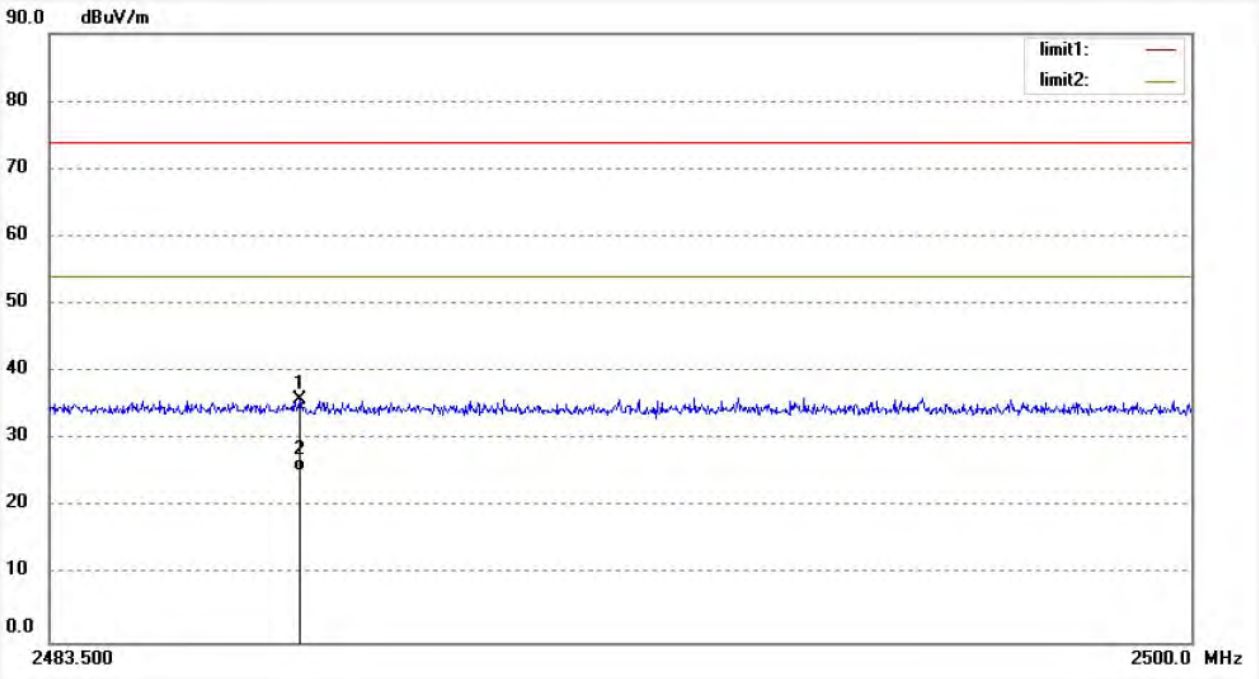
Job No.: LGW2018 #1722	Polarization: Horizontal
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2480MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2487.113	34.68	1.10	35.78	74.00	-38.22	peak			
2	2487.113	24.26	1.10	25.36	54.00	-28.64	AVG			

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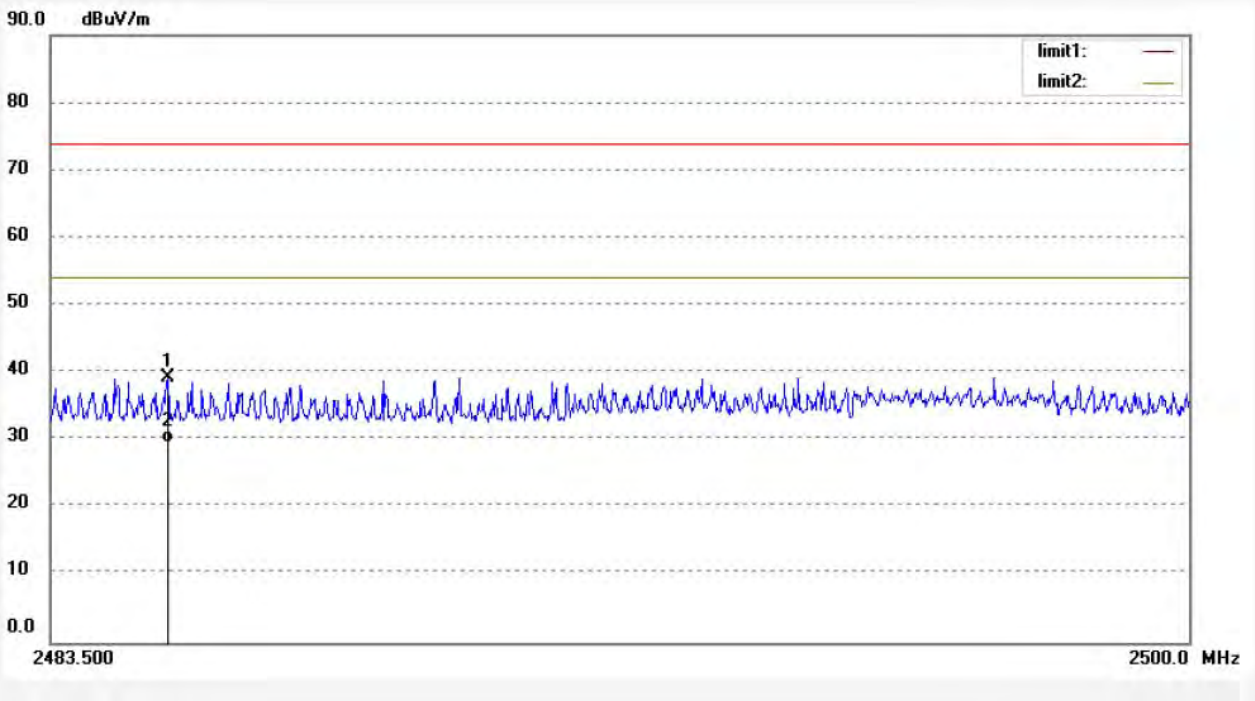
Job No.: LGW2018 #1723	Polarization: Vertical
Standard: FCC (Band Edge)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 18/07/14/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: 4.1 Channel SoundBar (Home Theater System)	Engineer Signature: WADE
Mode: TX 2480MHz	Distance: 3m
Model: S90	
Manufacturer: EDIFIER	

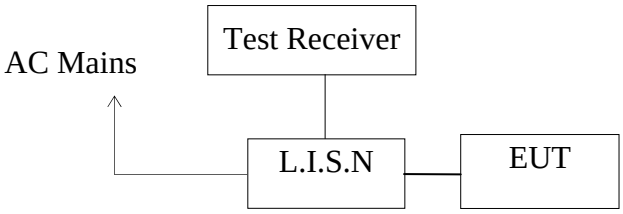
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2485.200	38.19	1.10	39.29	74.00	-34.71	peak			
2	2485.200	28.44	1.10	29.54	54.00	-24.46	AVG			

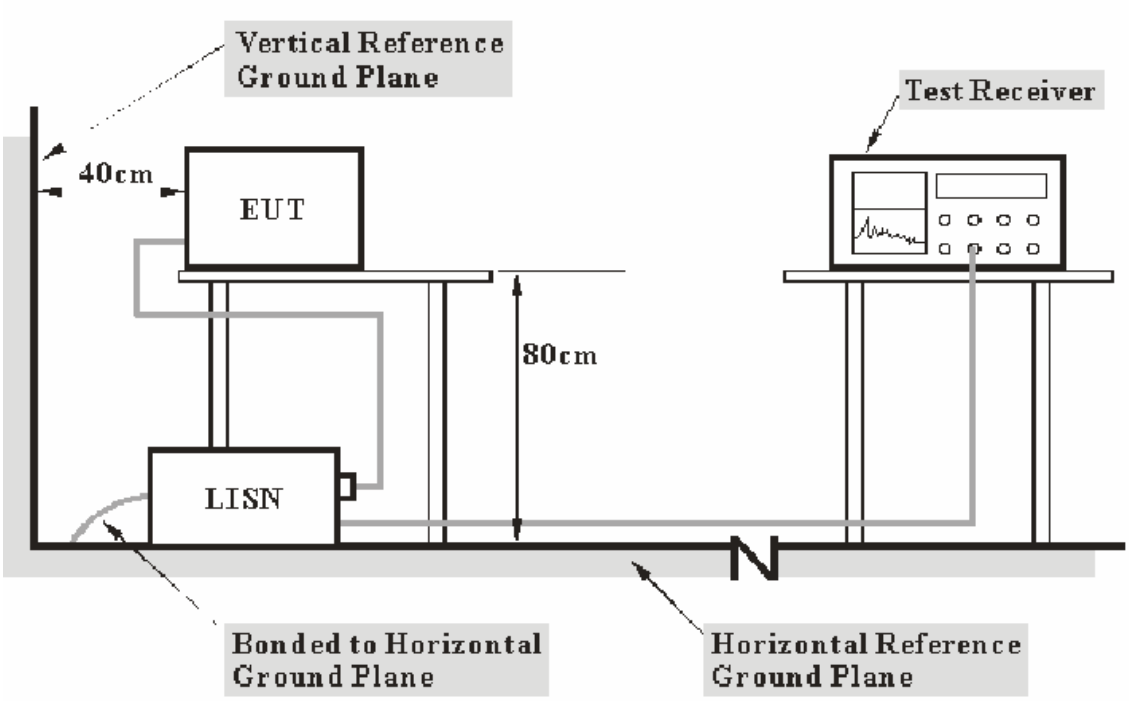
13. AC POWER LINE CONDUCTED EMISSION

13.1. Block Diagram of Test Setup



(EUT: 4.1 Channel SoundBar (Home Theater System))

13.2. Test System Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

13.3.Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

13.4.Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

13.5.Operating Condition of EUT

13.5.1.Setup the EUT and simulator as shown as Section 13.1.

13.5.2.Turn on the power of all equipment.

13.5.3.Let the EUT work in test mode and measure it.

13.6.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

13.7.Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.5	51.1	34.2	56.0	46.0	4.9	11.8	Pass

Frequency(MHz) = Emission frequency in MHz
Transducer value(dB) = Insertion loss of LISN + Cable Loss
Level(dBμV) = Quasi-peak Reading/Average Reading + Transducer value
Limit (dBμV) = Limit stated in standard

Calculation Formula:
Margin = Limit (dBμV) - Level (dBμV)

13.8.Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

Emissions attenuated more than 20 dB below the permissible value are not reported.

All data was recorded in the Quasi-peak and average detection mode.

The spectral diagrams are attached as below.

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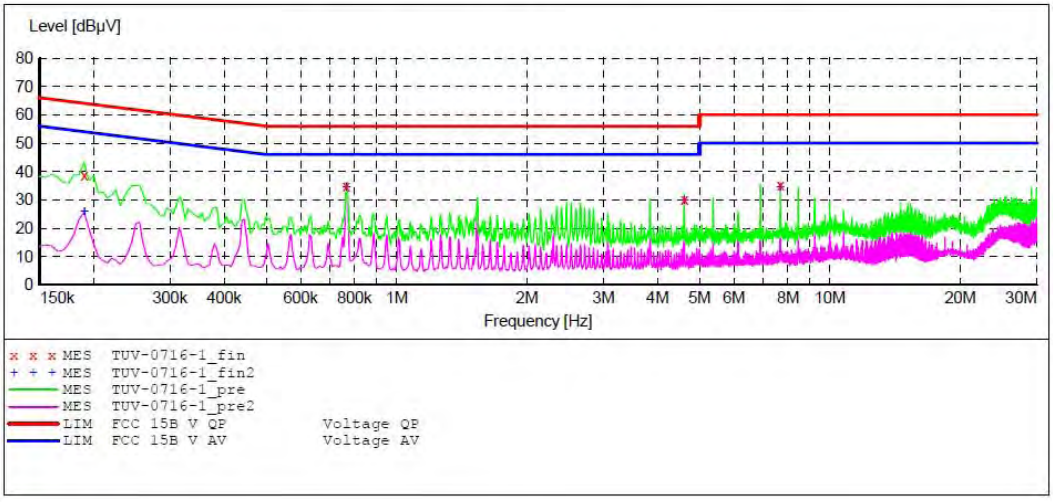
CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer:         EDIFIER
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             WADE
Test Specification:   N 120V/60Hz
Comment:              Mains port
Start of Test:        7/16/2018 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz  QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                  Average
  150.0 kHz  30.0 MHz   5.0 kHz   QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                  Average
```



MEASUREMENT RESULT: "TUV-0716-1_fin"

7/16/2018

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	38.80	10.5	64	25.2	QP	N	GND
0.765000	34.70	10.8	56	21.3	QP	N	GND
4.610000	30.30	11.1	56	25.7	QP	N	GND
7.680000	35.20	11.2	60	24.8	QP	N	GND

MEASUREMENT RESULT: "TUV-0716-1_fin2"

7/16/2018

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	25.70	10.5	54	28.3	AV	N	GND
0.765000	34.40	10.8	46	11.6	AV	N	GND
4.610000	29.70	11.1	46	16.3	AV	N	GND
7.680000	34.30	11.2	50	15.7	AV	N	GND

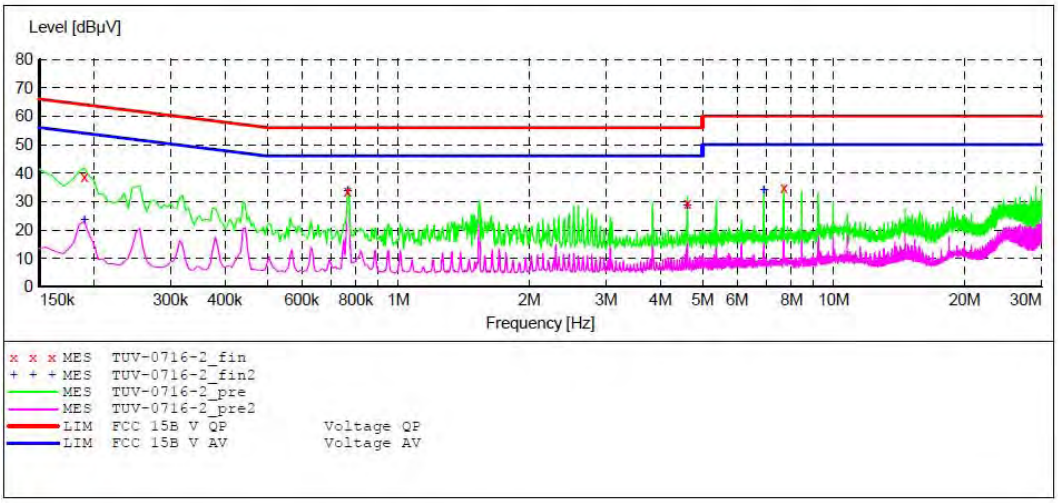
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

```
EUT:                  4.1 Channel SoundBar (Home Theater System) M/N:S90
Manufacturer:         EDIFIER
Operating Condition:  BT Communication
Test Site:            1#Shielding Room
Operator:             WADE
Test Specification:   L 120V/60Hz
Comment:              Mains port
Start of Test:        7/16/2018 /
```

SCAN TABLE: "V 9K-30MHz fin"

```
  Short Description:                 _SUB_STD_VTERM2 1.70
  Start      Stop       Step        Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                 Time      Bandw.
  9.0 kHz    150.0 kHz  100.0 Hz    QuasiPeak 1.0 s     200 Hz   NSLK8126 2008
                                     Average
  150.0 kHz  30.0 MHz   5.0 kHz     QuasiPeak 1.0 s     9 kHz    NSLK8126 2008
                                     Average
```



MEASUREMENT RESULT: "TUV-0716-2_fin"

7/16/2018

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	38.80	10.5	64	25.2	QP	L1	GND
0.765000	33.70	10.8	56	22.3	QP	L1	GND
4.610000	29.50	11.1	56	26.5	QP	L1	GND
7.680000	34.70	11.2	60	25.3	QP	L1	GND

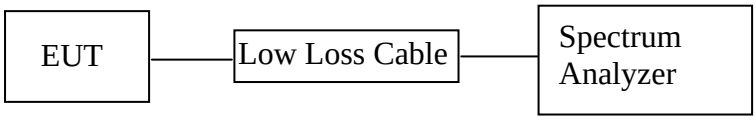
MEASUREMENT RESULT: "TUV-0716-2_fin2"

7/16/2018

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	23.50	10.5	54	30.5	AV	L1	GND
0.765000	33.50	10.8	46	12.5	AV	L1	GND
4.610000	28.70	11.1	46	17.3	AV	L1	GND
6.910000	33.80	11.2	50	16.2	AV	L1	GND

14.99% OCCUPIED BANDWIDTH

14.1.Block Diagram of Test Setup



14.2.The Requirement for RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.
In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

14.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

14.4.Operating Condition of EUT

14.4.1.Setup the EUT and simulator as shown as Section 14.1.

14.4.2.Turn on the power of all equipment.

14.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

14.5.Test Procedure

14.5.1.The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The transmitter output was connected to the spectrum analyzer through a low loss cable.

14.5.2.The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

14.5.3.The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

14.5.4. The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

14.6.Measurement Result

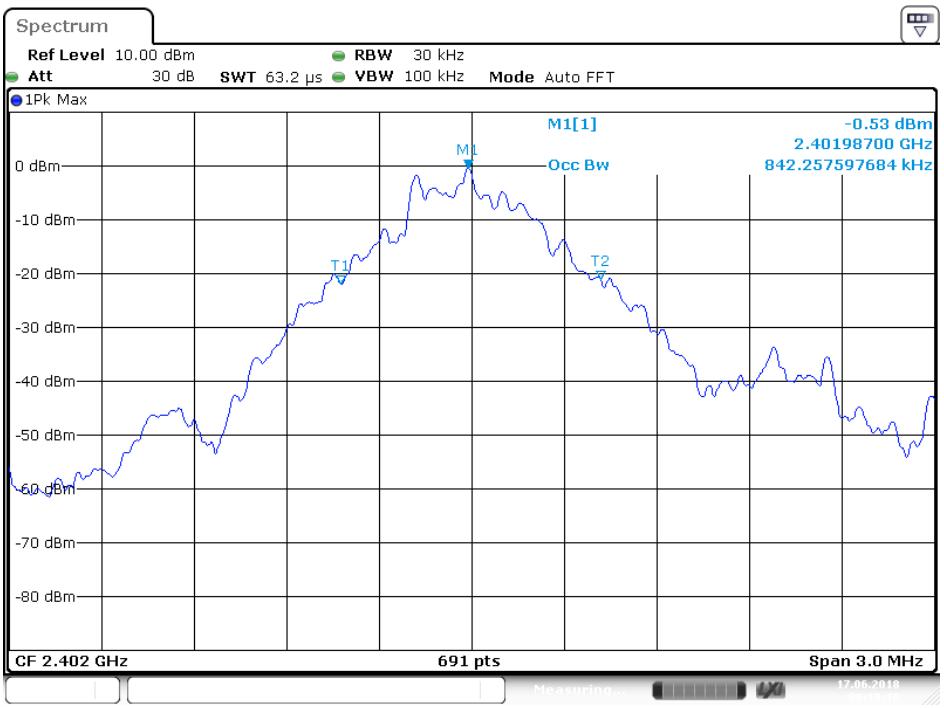
Channel	Frequency (MHz)	GFSK mode 99% Bandwidth (MHz)	8DPSK mode 99% Bandwidth (MHz)	Result
Low	2402	0.842	1.151	PASS
Middle	2441	0.838	1.142	PASS
High	2480	0.838	1.142	PASS

Note: This testing was carried out on all operation modes, but only the worst case was presented in this report.

The spectrum analyzer plots are attached as below.

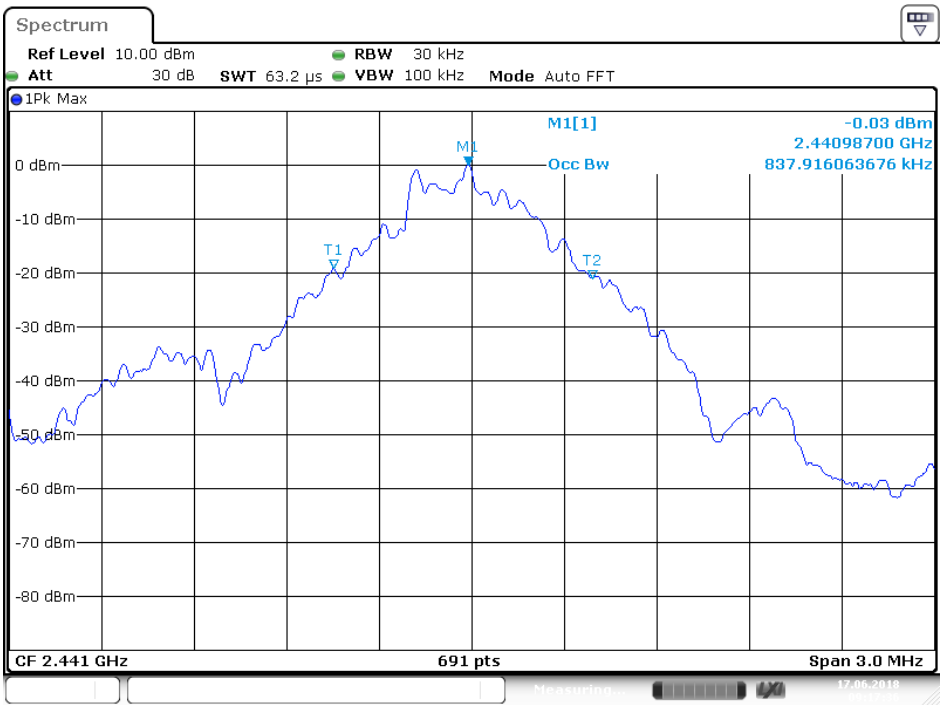
GFSK

Low channel



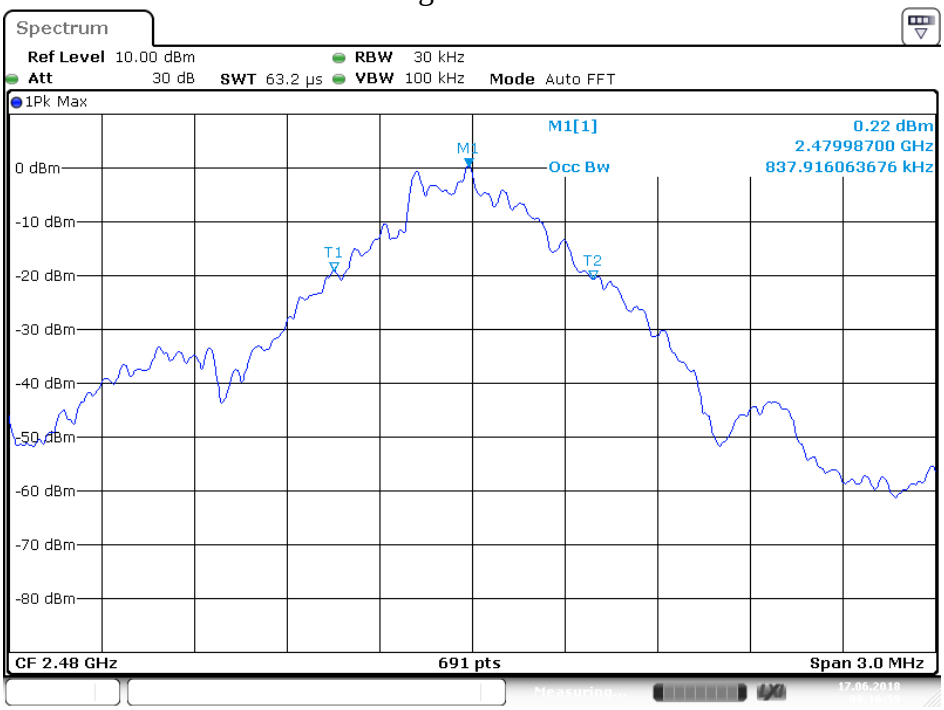
Date: 17.JUN.2018 09:18:11

Middle channel



Date: 17.JUN.2018 09:17:37

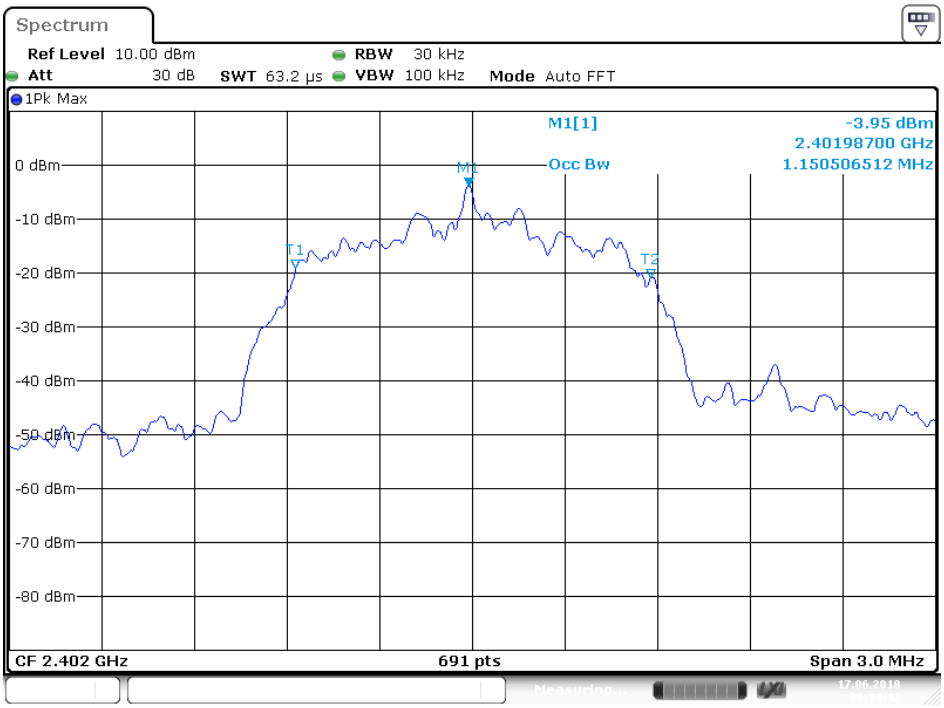
High channel



Date: 17.JUN.2018 09:17:00

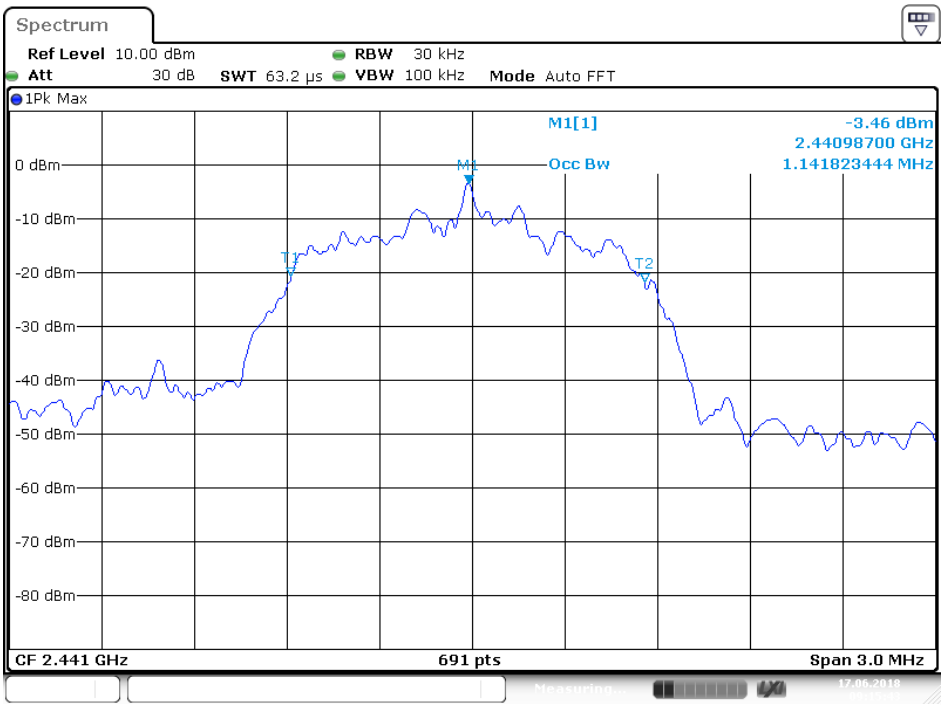
8DPSK

Low channel



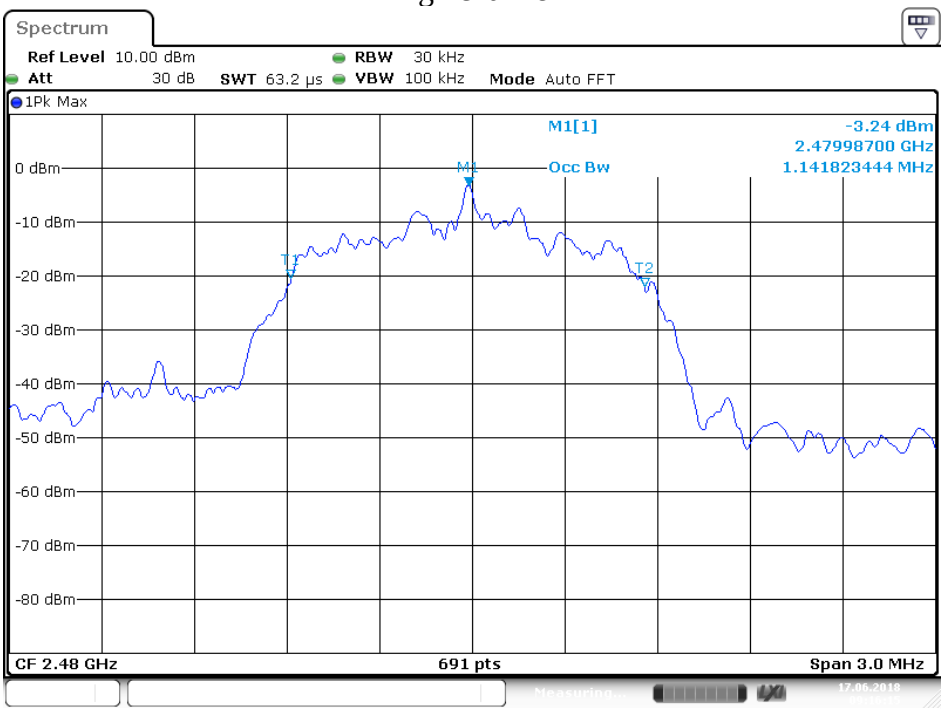
Date: 17.JUN.2018 09:14:43

Middle channel



Date: 17.JUN.2018 09:15:44

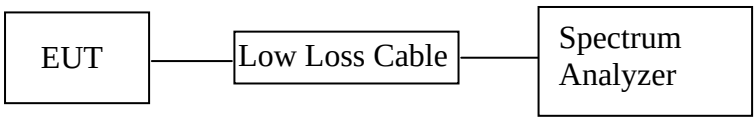
High channel



Date: 17.JUN.2018 09:16:15

15. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

15.1. Block Diagram of Test Setup



15.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

15.3. The Requirement For RSS-247 Section 5.5

Section 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

15.4.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

15.5.Operating Condition of EUT

15.5.1.Setup the EUT and simulator as shown as Section 15.1.

15.5.2.Turn on the power of all equipment.

15.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2441MHz, and 2480MHz TX frequency to transmit.

15.6.Test Procedure

15.6.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

15.6.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz

15.6.3.The Conducted Spurious Emission was measured and recorded.

15.7.Test Result

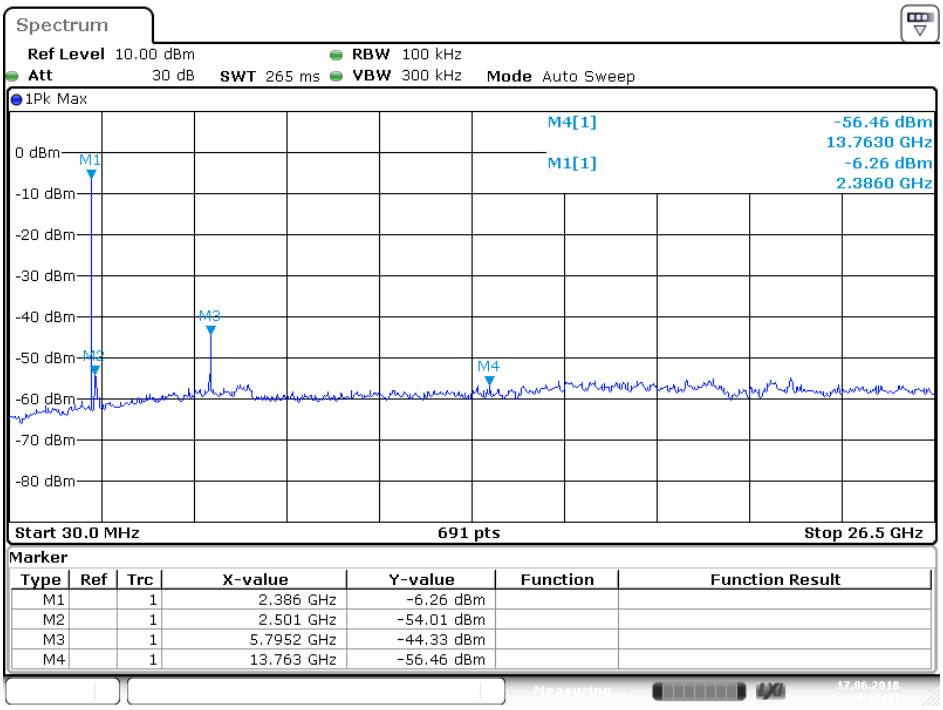
PASS.

Note: This testing was carried out on all operation modes, but only the worst case was presented in this report.

The spectrum analyzer plots are attached as below.

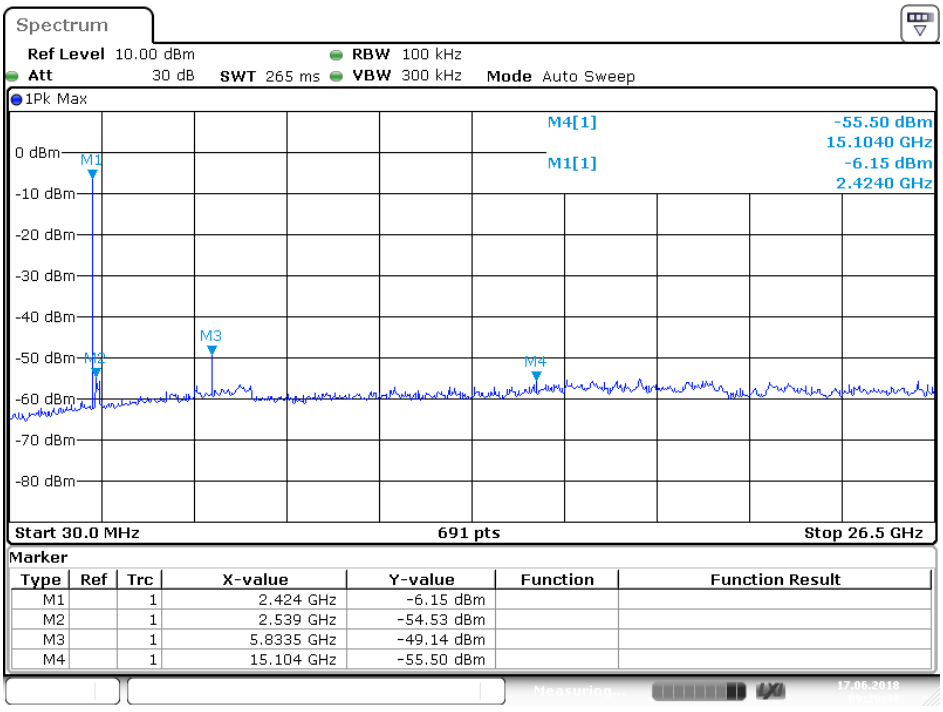
GFSK mode

Low Channel



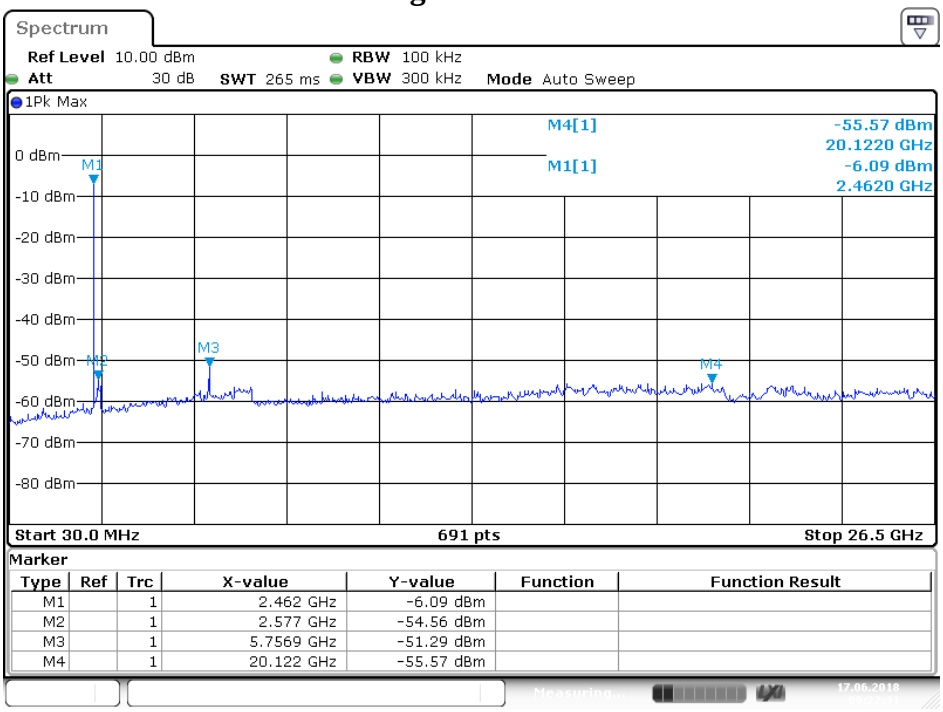
Date: 17.JUN.2018 09:19:44

Middle Channel



Date: 17.JUN.2018 09:20:41

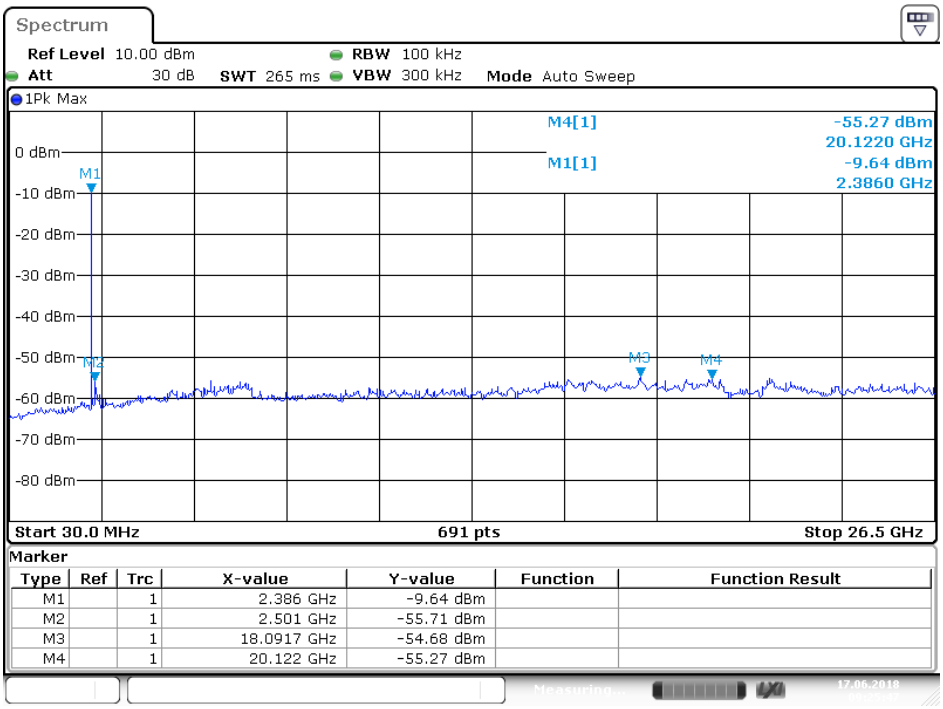
High Channel



Date: 17.JUN.2018 09:22:31

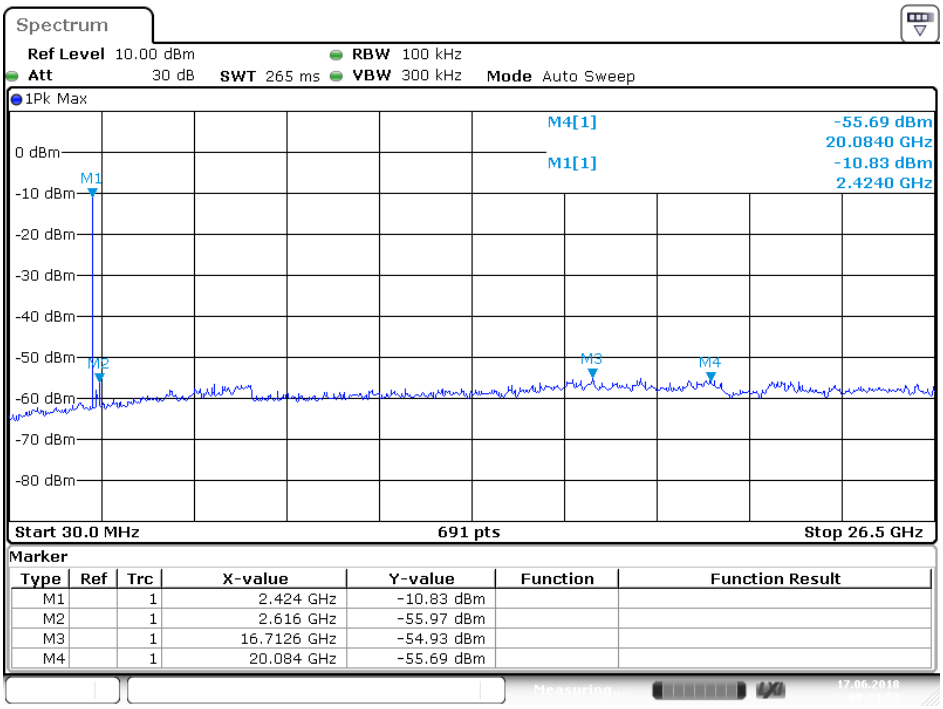
8DPSK mode

Low Channel



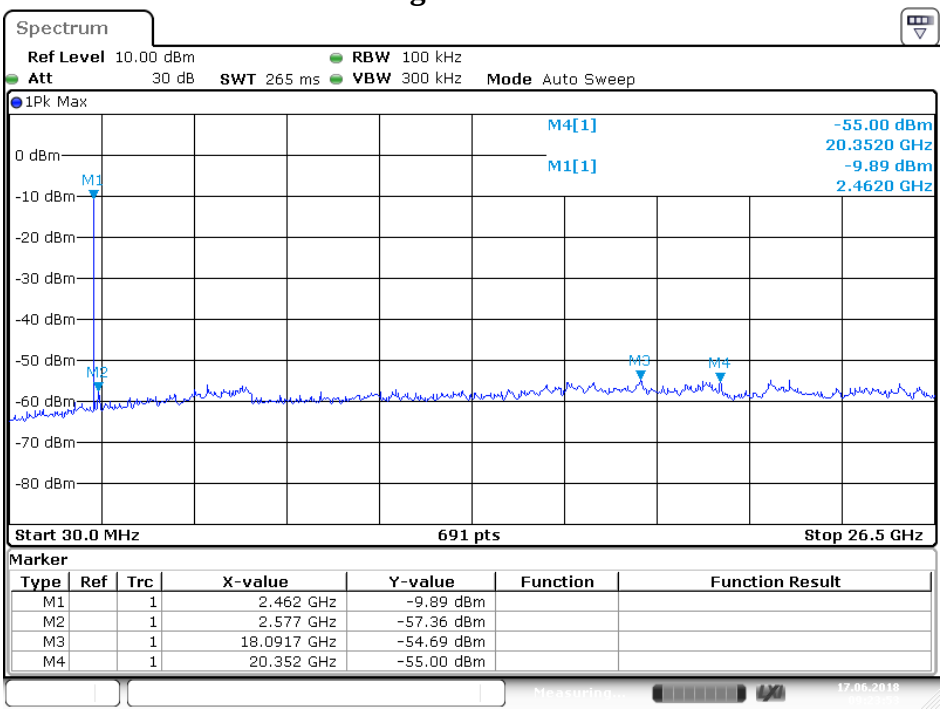
Date: 17.JUN.2018 09:25:48

Middle Channel



Date: 17.JUN.2018 09:24:53

High Channel



Date: 17.JUN.2018 09:23:53

16. ANTENNA REQUIREMENT

16.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

16.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

******* End of Test Report *******