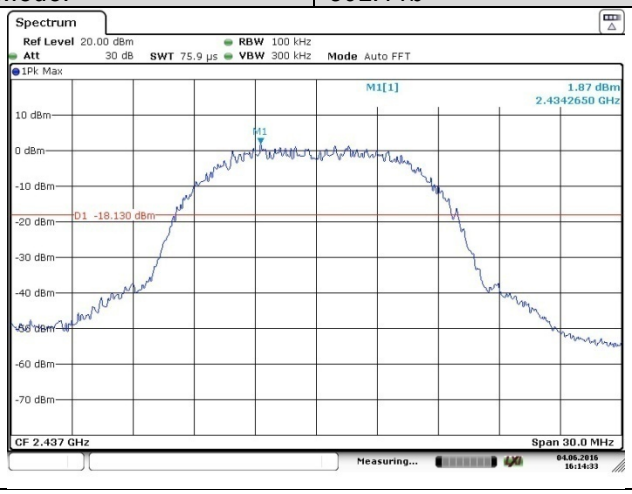
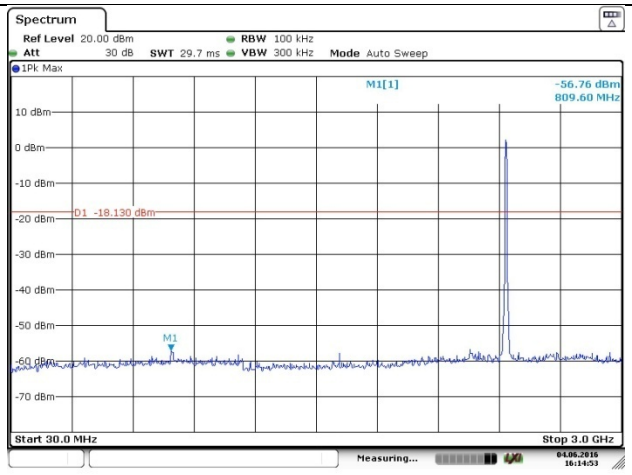
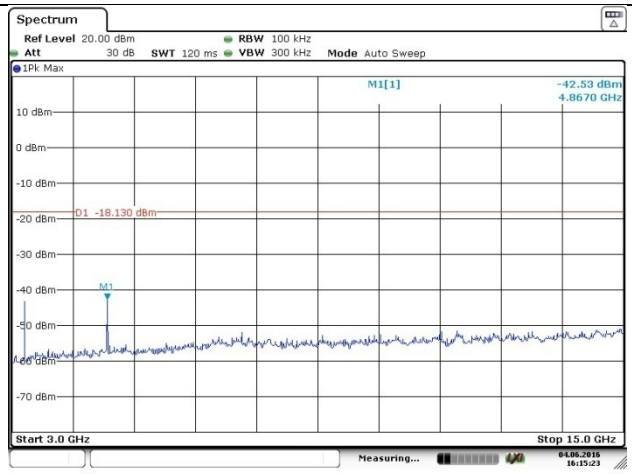
Mode:	*802.11b*	*Test channel:*	*06*



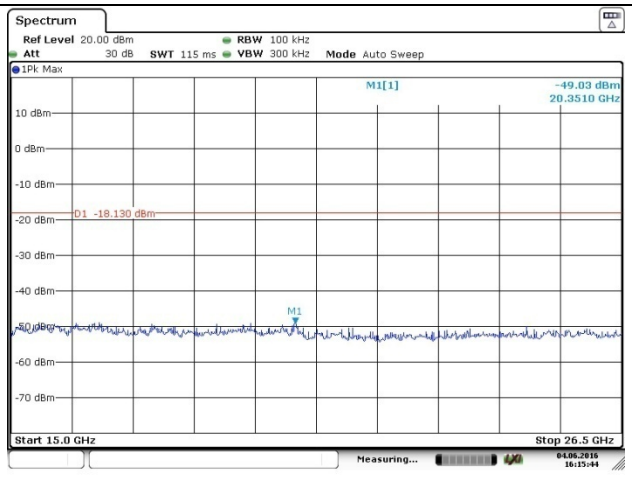
100KHz PSD Reference Level



30MHz~3GHz

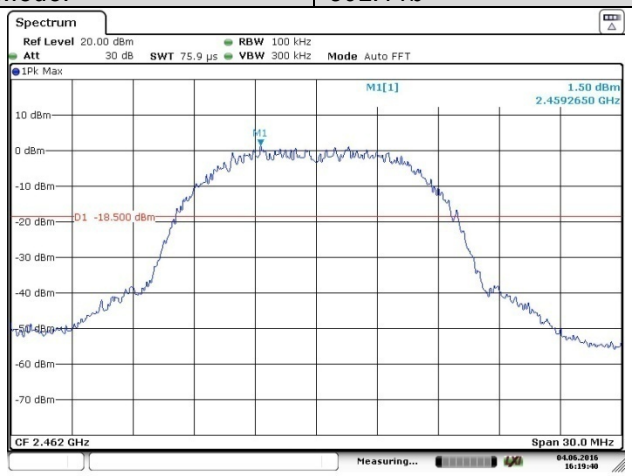


3GHz~15GHz

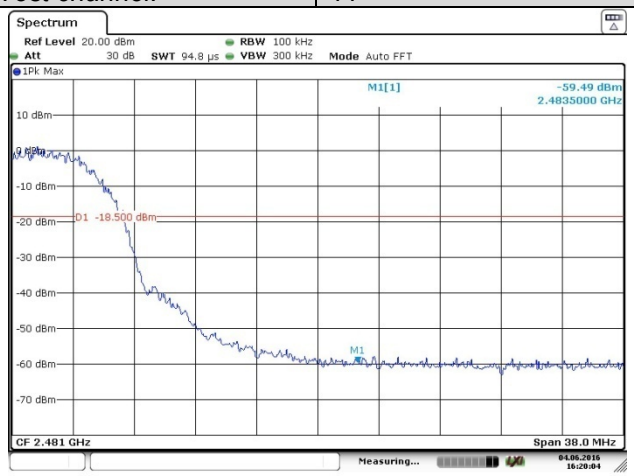


15GHz~26.5GHz

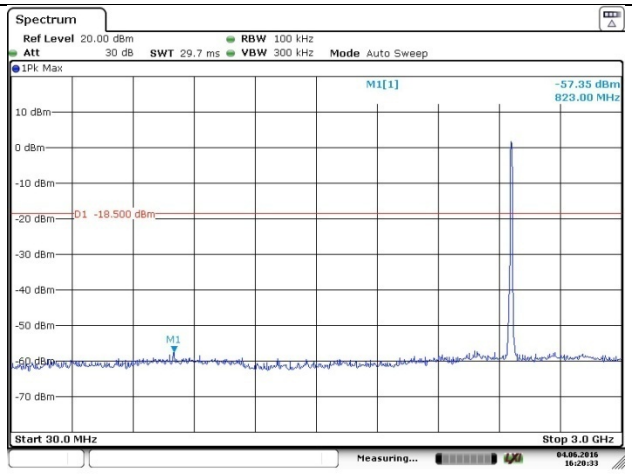
Mode:	*802.11b*	*Test channel:*	*11*



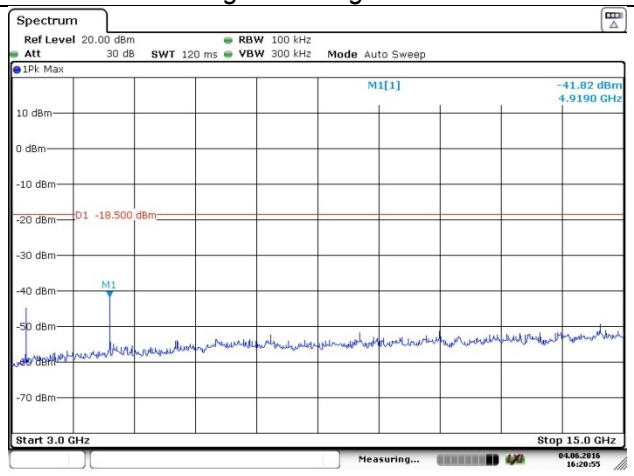
100KHz PSD Reference Level



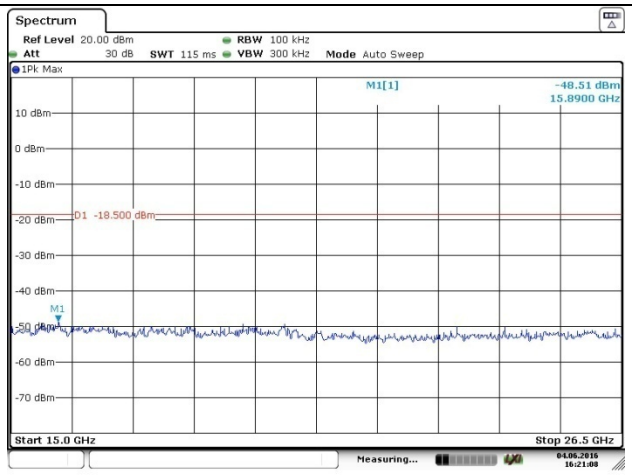
High bandedge Plot



30MHz~3GHz

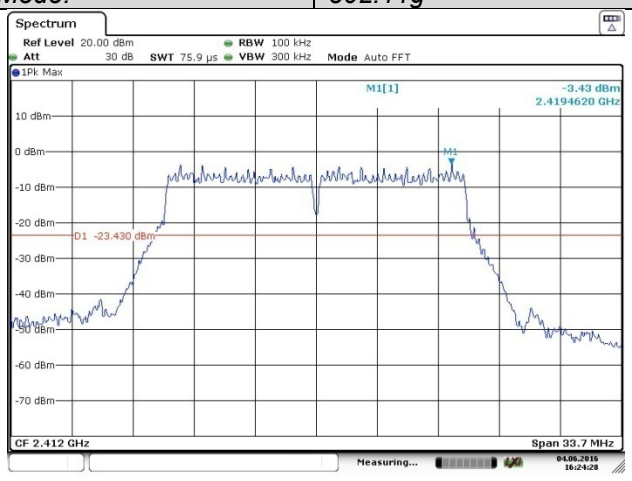


3GHz~15GHz

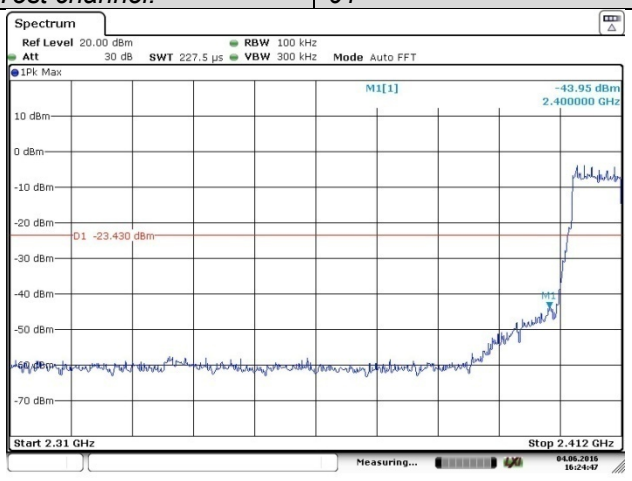


15GHz~26.5GHz

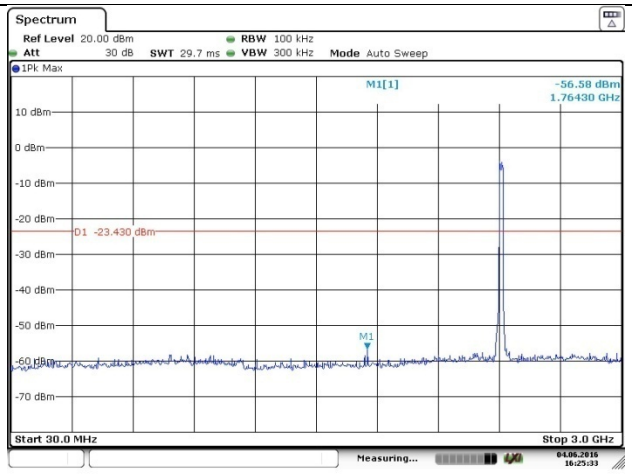
Mode:	*802.11g*	*Test channel:*	*01*



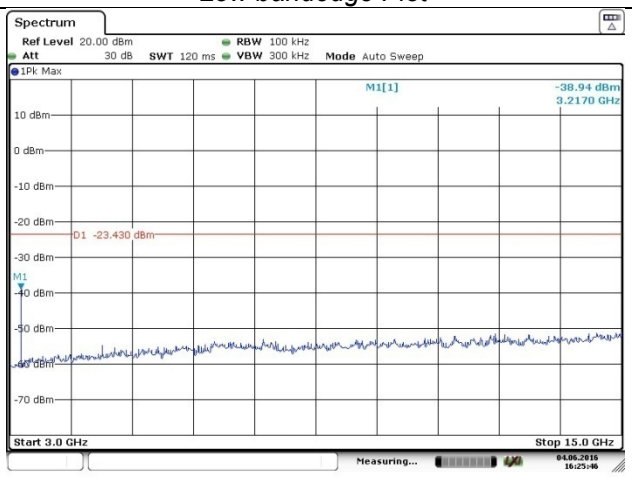
100KHz PSD Reference Level



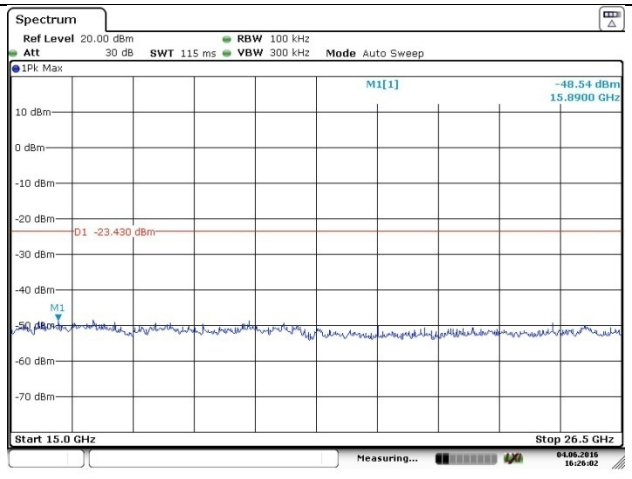
Low bandedge Plot



30MHz~3GHz

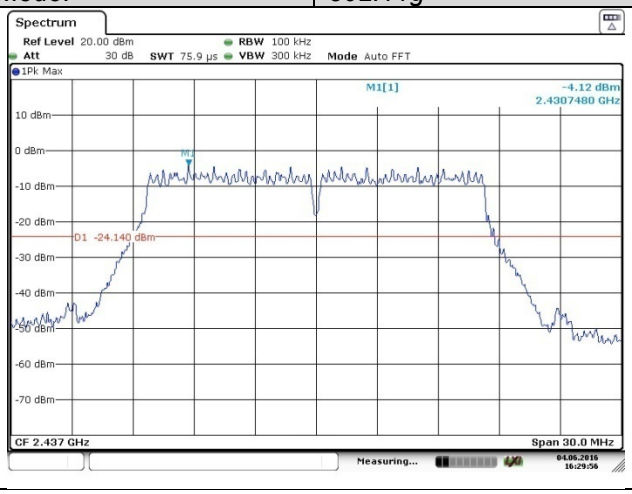


3GHz15GHz

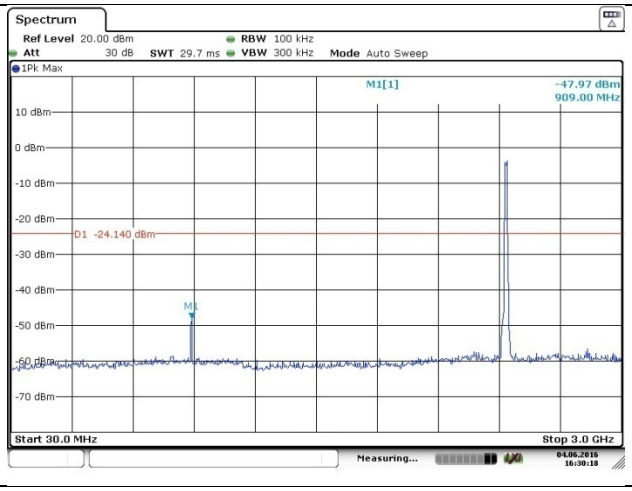


15GHz~26.5GHz

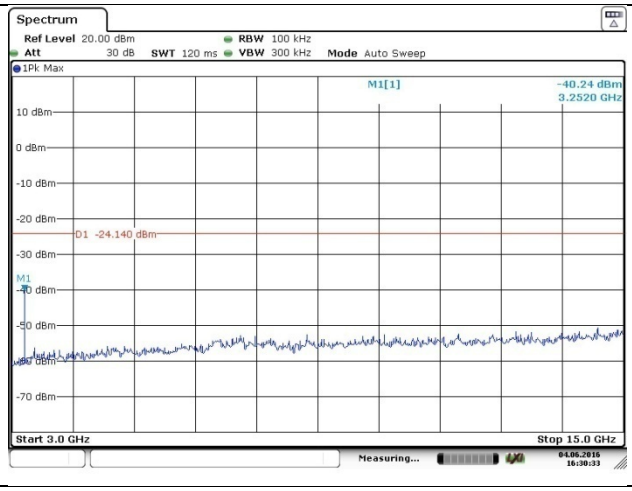
Mode:	*802.11g*	*Test channel:*	*06*



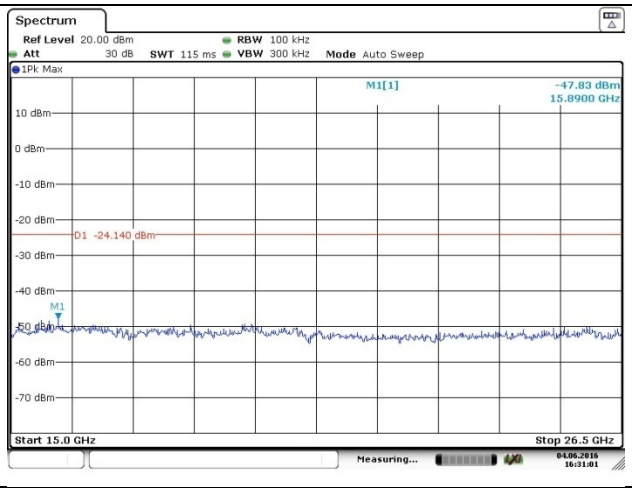
100KHz PSD Reference Level



30MHz~3GHz

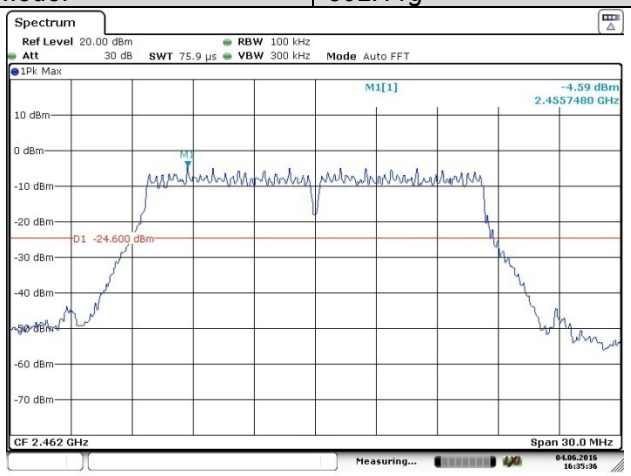


3GHz~15GHz

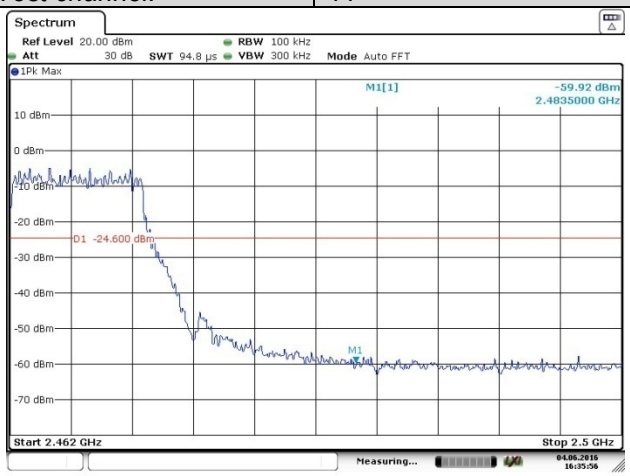


15GHz~26.5GHz

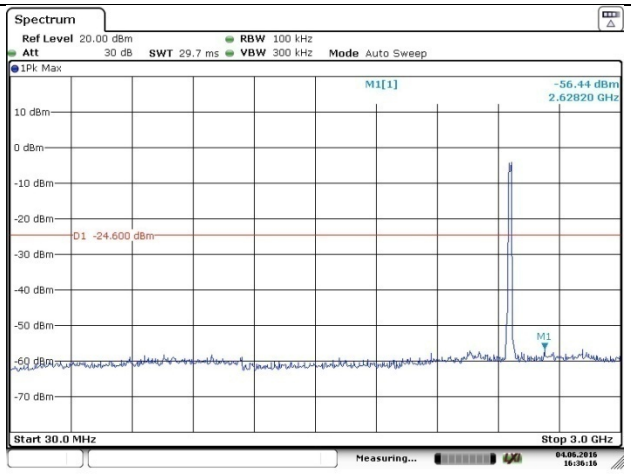
Mode:	*802.11g*	*Test channel:*	*11*



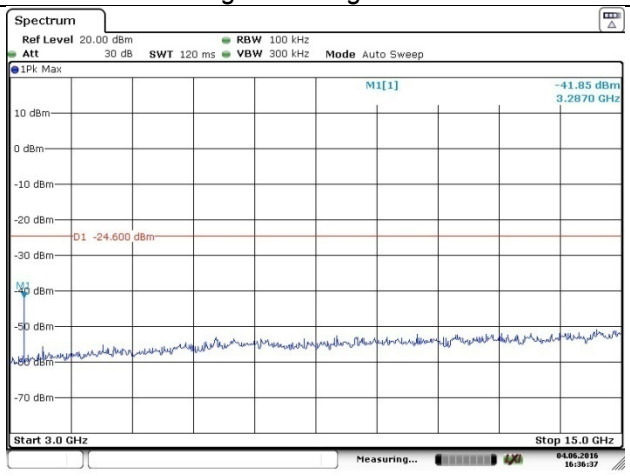
100KHz PSD Reference Level



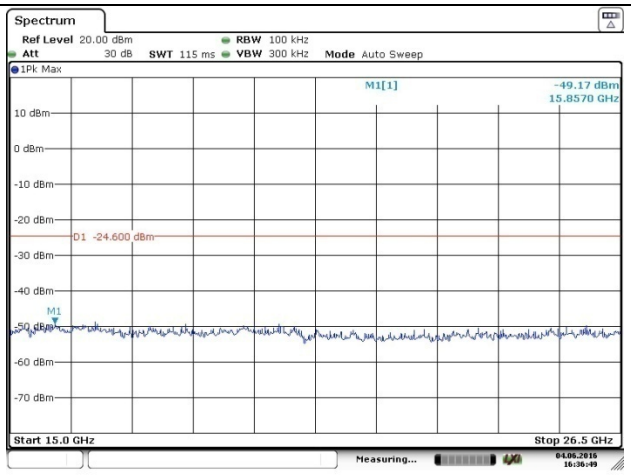
High bandedge Plot



30MHz~3GHz

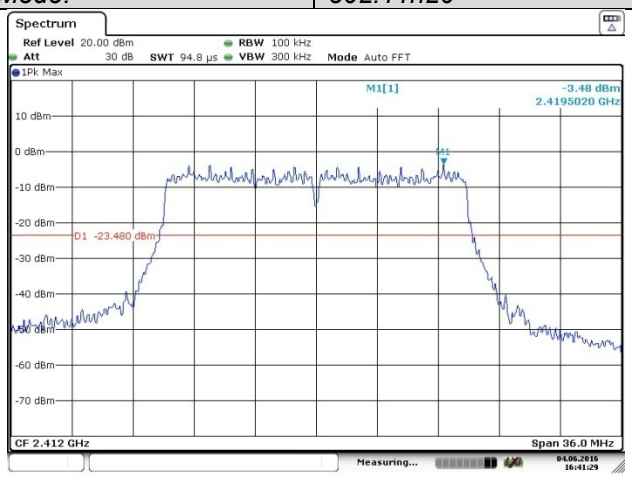


3GHz~15GHz

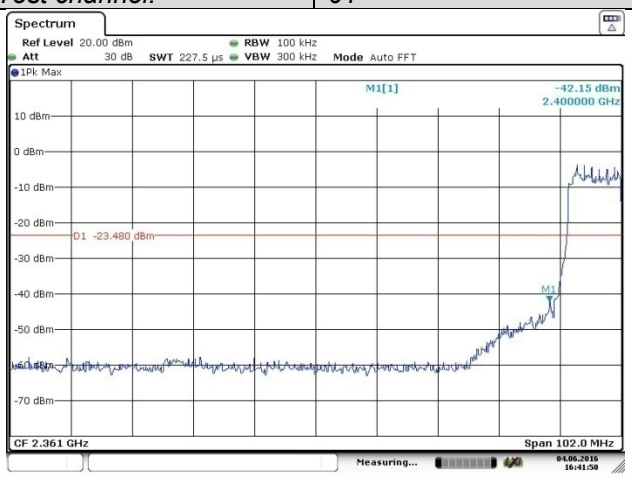


15GHz~26.5GHz

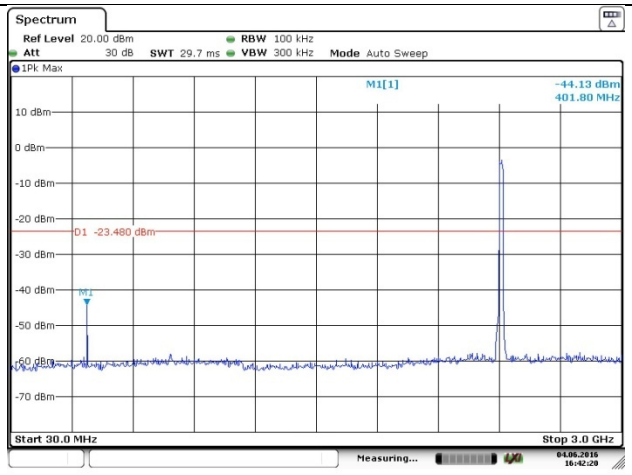
Mode:	*802.11n20*	*Test channel:*	*01*



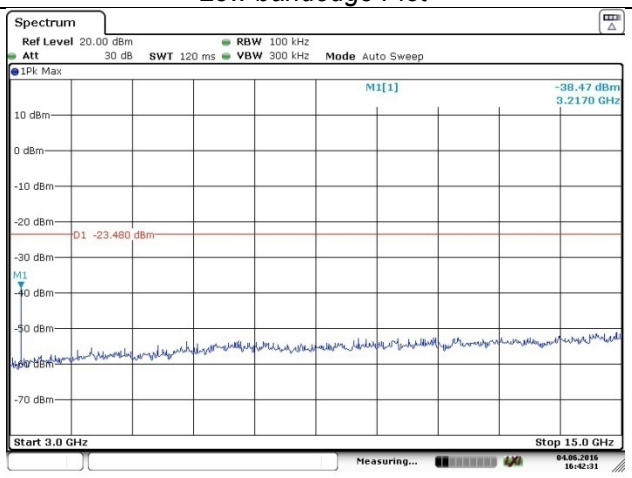
100KHz PSD Reference Level



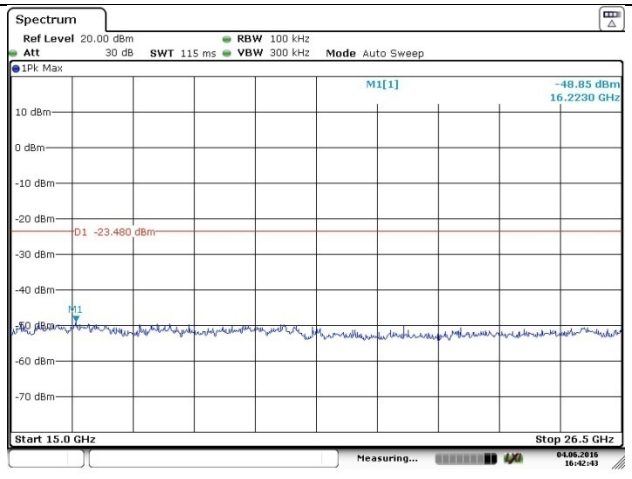
Low bandedge Plot



30MHz~3GHz

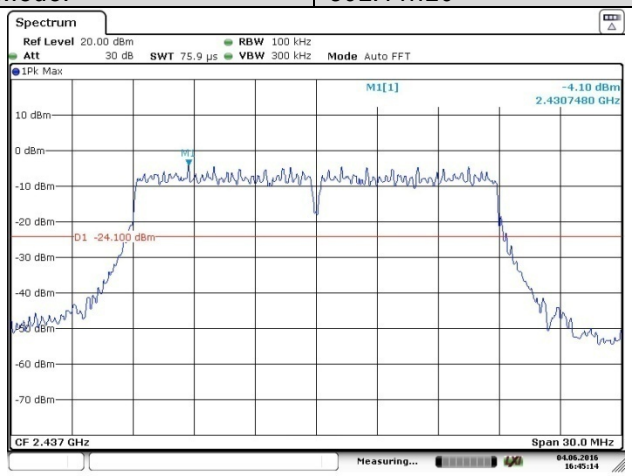


3GHz15GHz

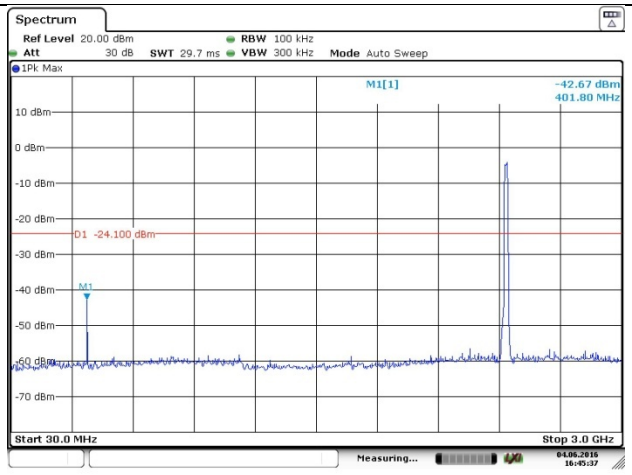


15GHz~26.5GHz

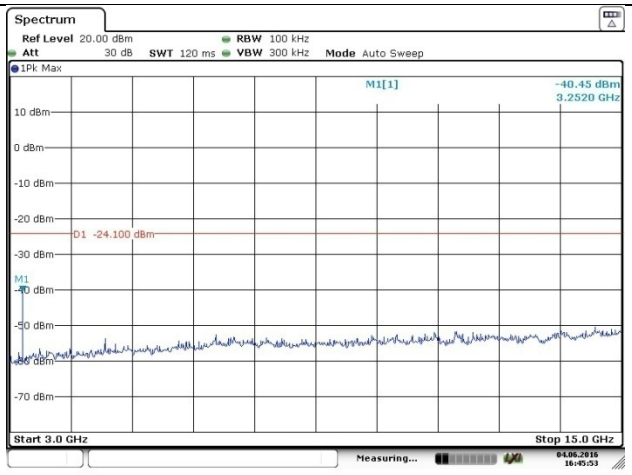
Mode:	*802.11n20*	*Test channel:*	*06*



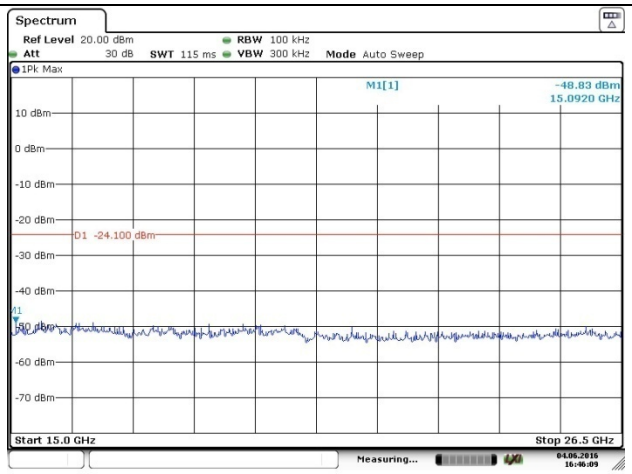
100KHz PSD Reference Level



30MHz~3GHz

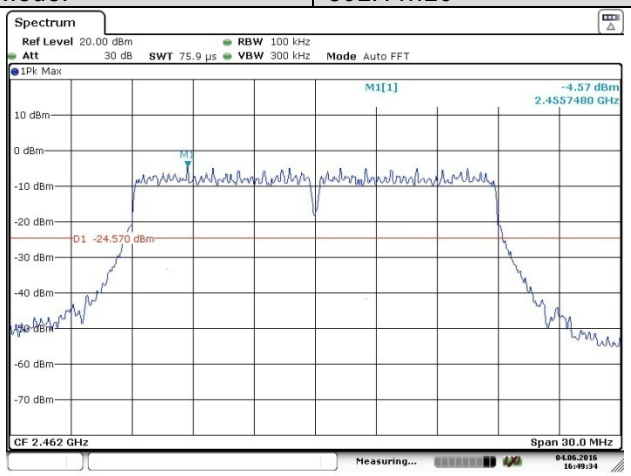


3GHz~15GHz

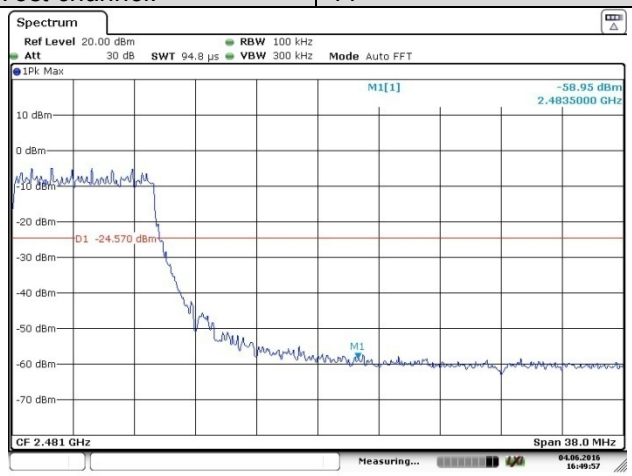


15GHz~26.5GHz

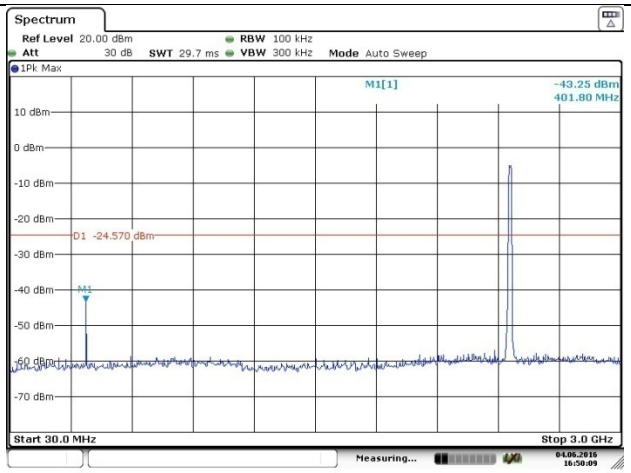
Mode:	*802.11n20*	*Test channel:*	*11*



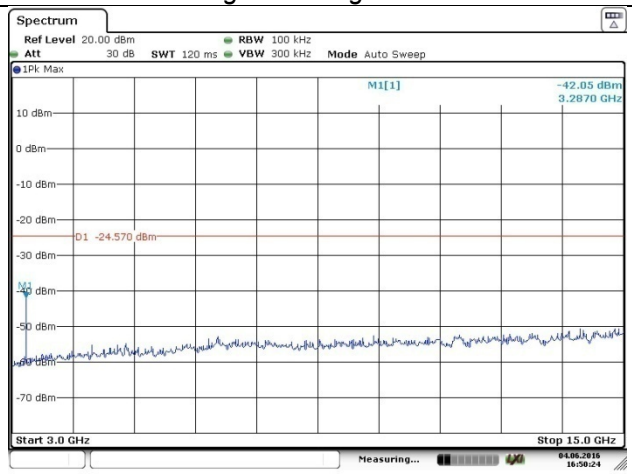
100KHz PSD Reference Level



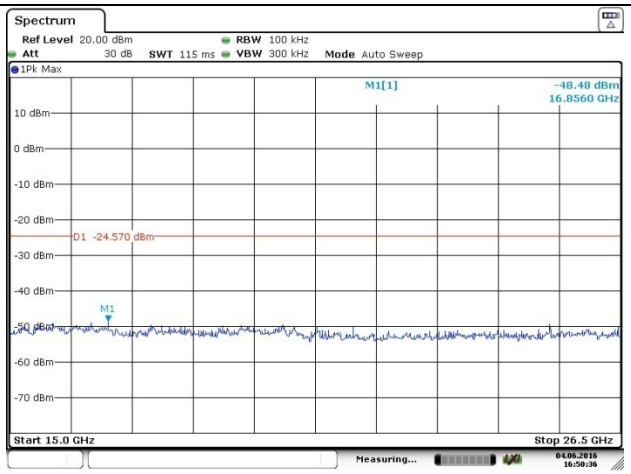
High bandedge Plot



30MHz~3GHz

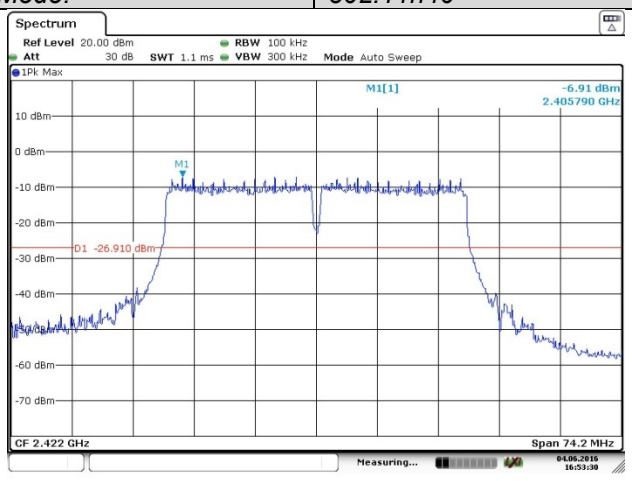


3GHz~15GHz

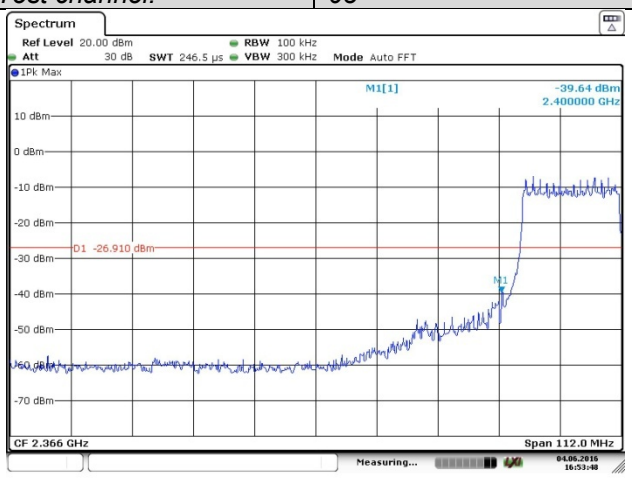


15GHz~26.5GHz

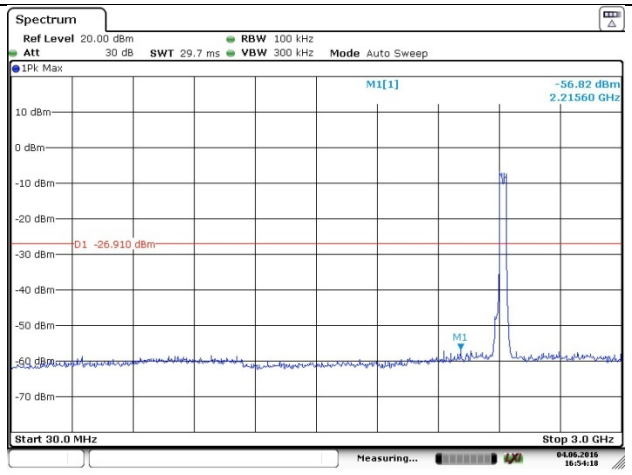
Mode:	*802.11n40*	*Test channel:*	*03*



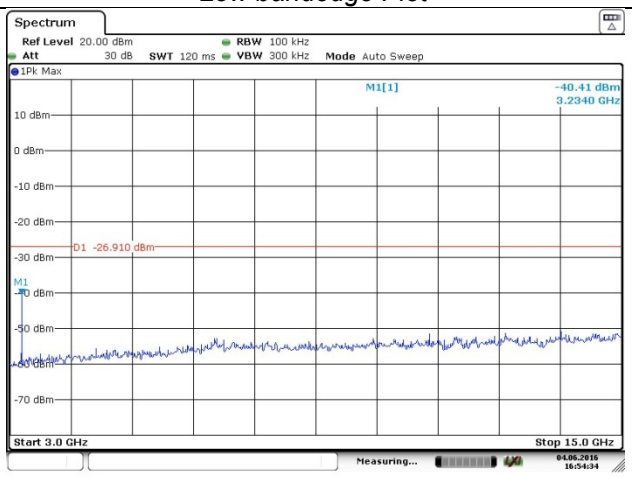
100KHz PSD Reference Level



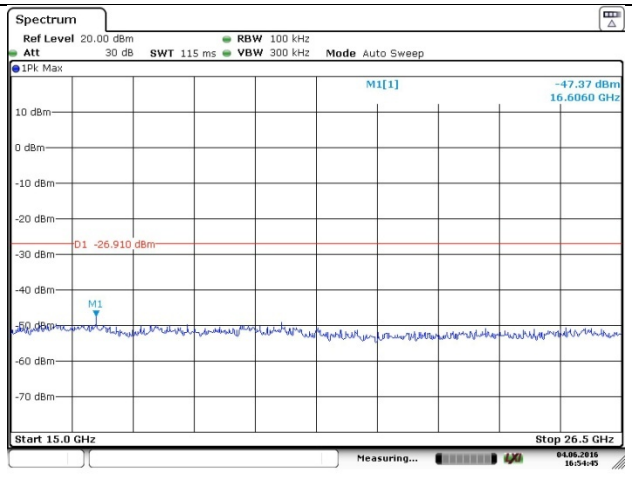
Low bandedge Plot



30MHz~3GHz

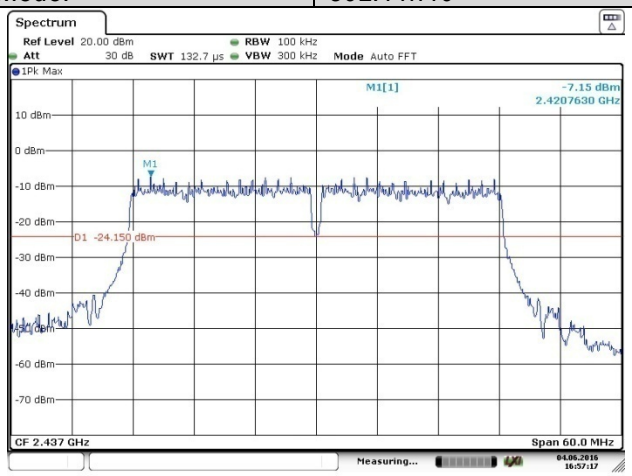


3GHz15GHz

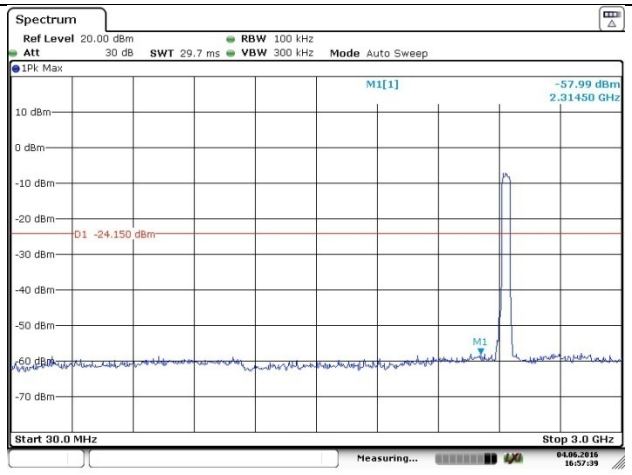


15GHz~26.5GHz

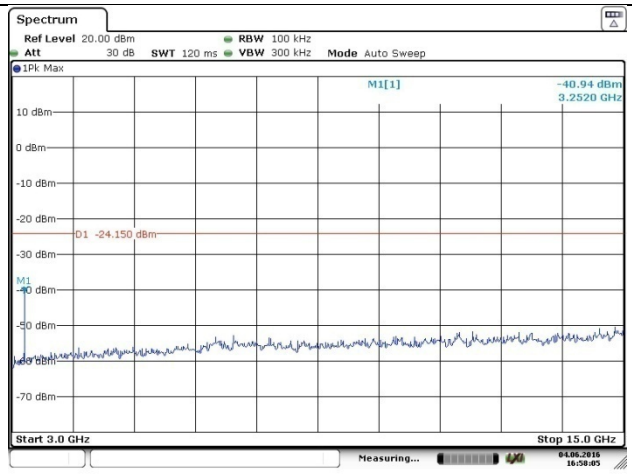
Mode:	*802.11n40*	*Test channel:*	*06*



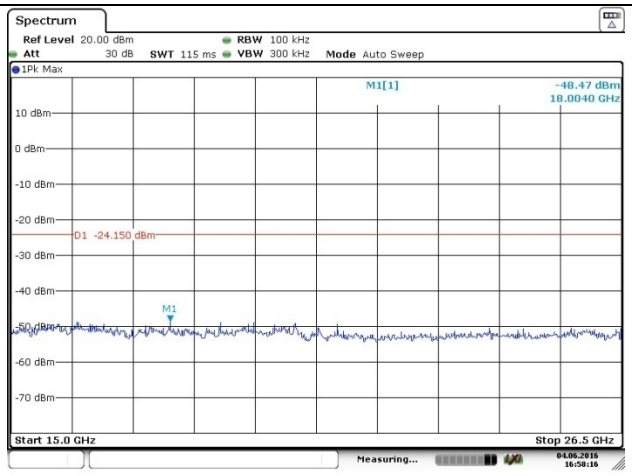
100KHz PSD Reference Level



30MHz~3GHz

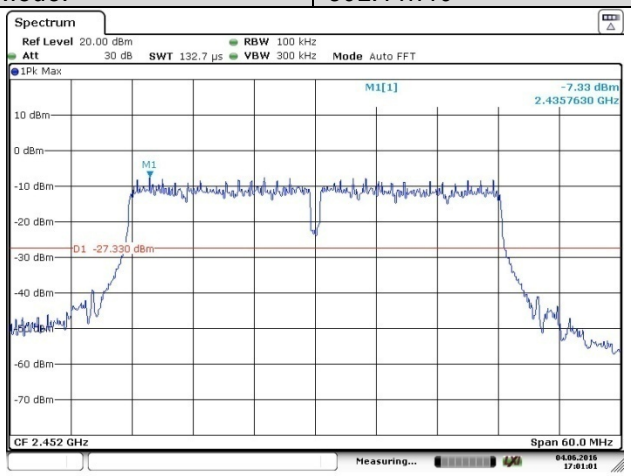


3GHz~15GHz

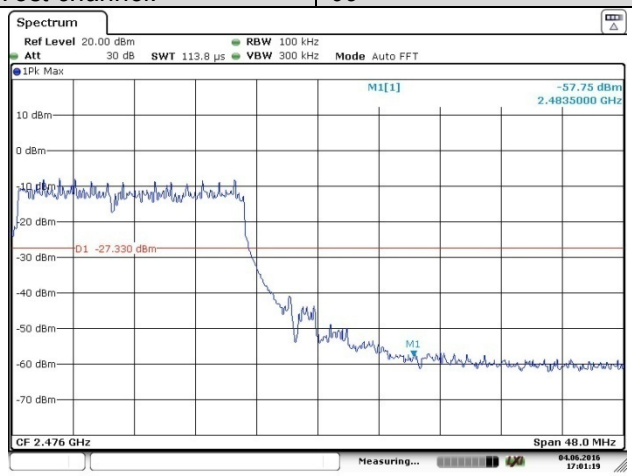


15GHz~26.5GHz

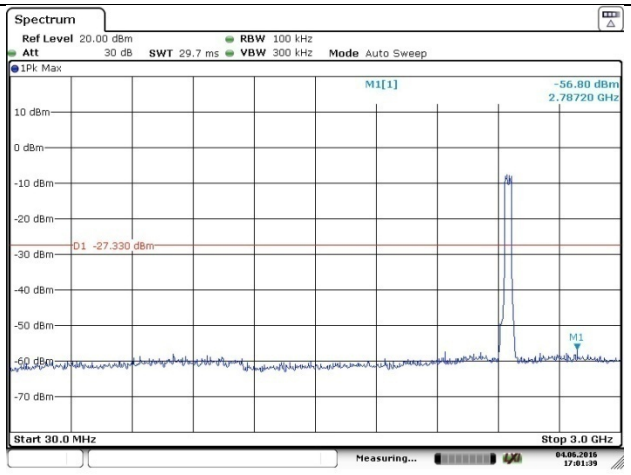
Mode:	*802.11n40*	*Test channel:*	*09*



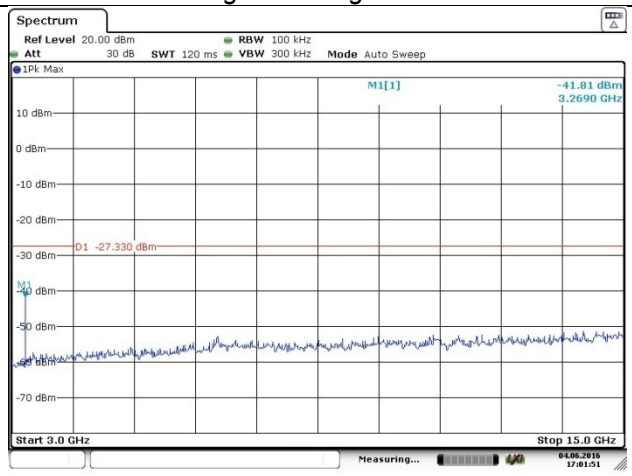
100KHz PSD Reference Level



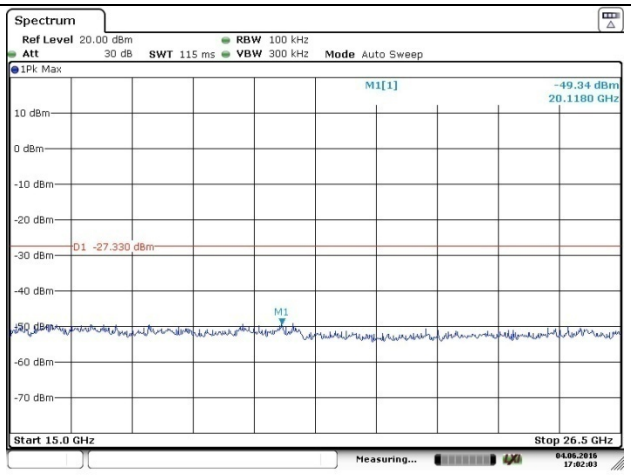
High bandedge Plot



30MHz~3GHz



3GHz~15GHz



15GHz~26.5GHz

4.8. Spurious Emission (radiated)

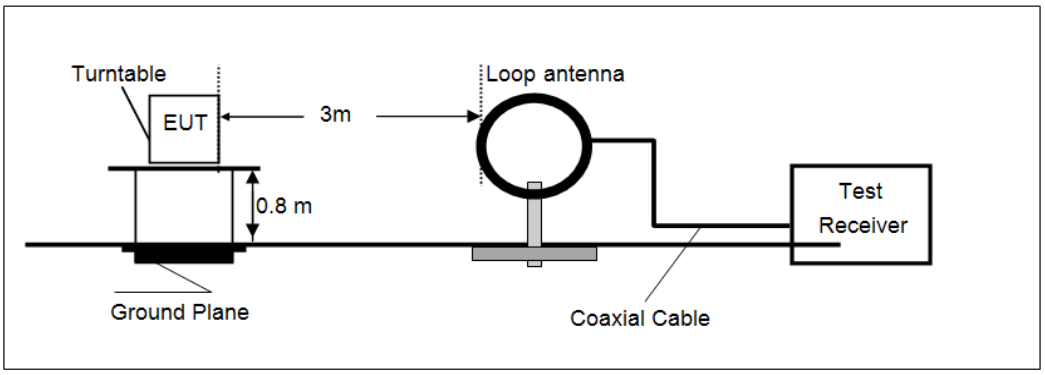
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

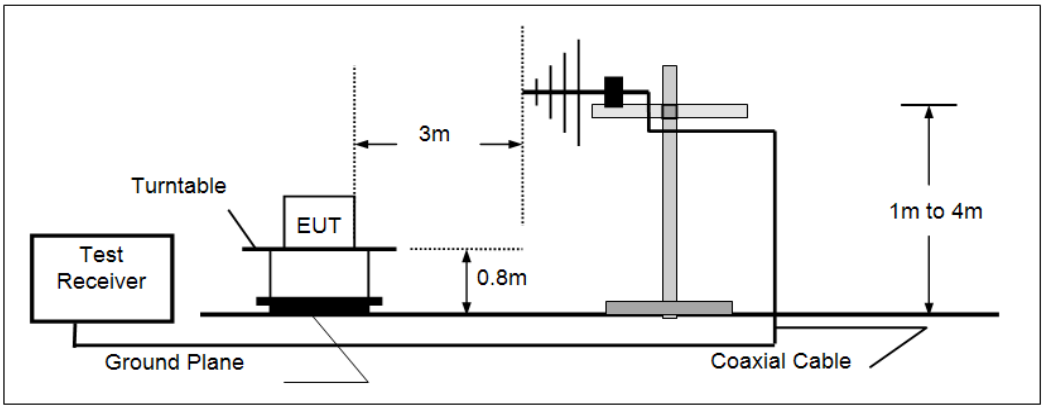
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

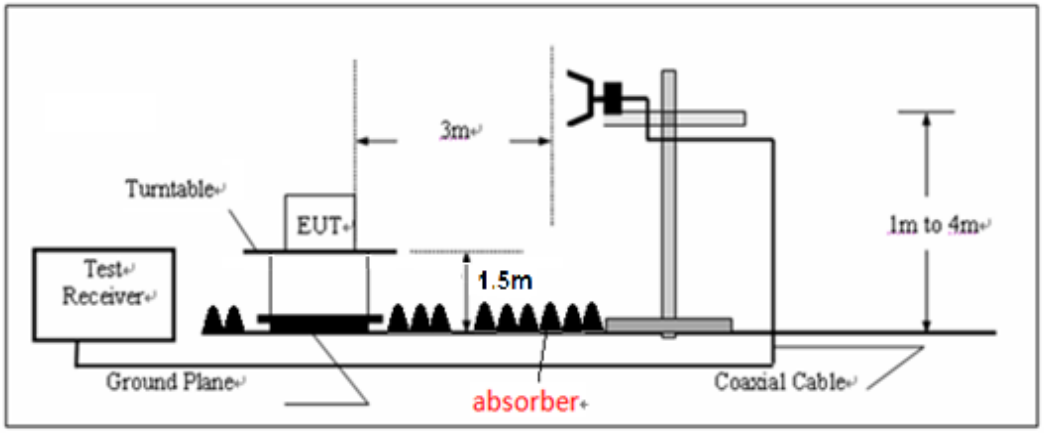
- 9KHz ~30MHz



- 30MHz ~ 1GHz



- Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated360 degrees to determine the position of the maximum emission level.
3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; *If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the quasi-peak detector and reported.*
   (3) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value
   RBW=1MHz, VBW=3MHz for Average value.

TEST RESULTS

Measurement data:

Remark:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2."", means this data is the too weak instrument of signal is unable to test.*

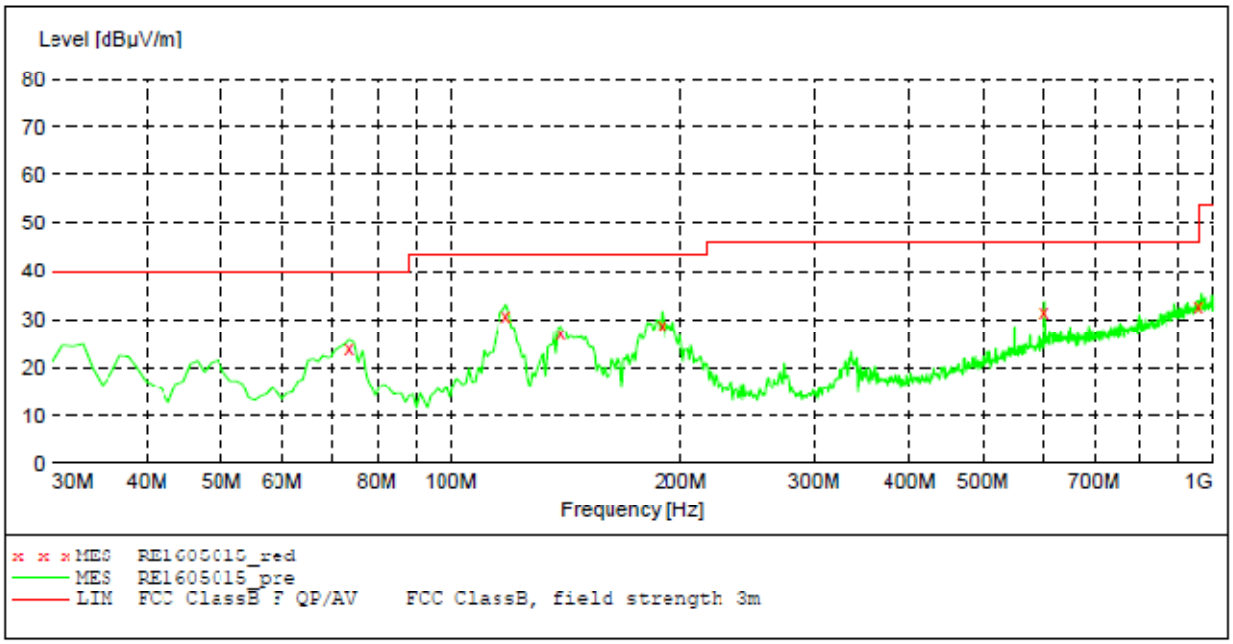
3.The emission levels of other frequencies are very lower than the limit and not show in test report.

■ **9kHz ~ 30MHz**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not show.

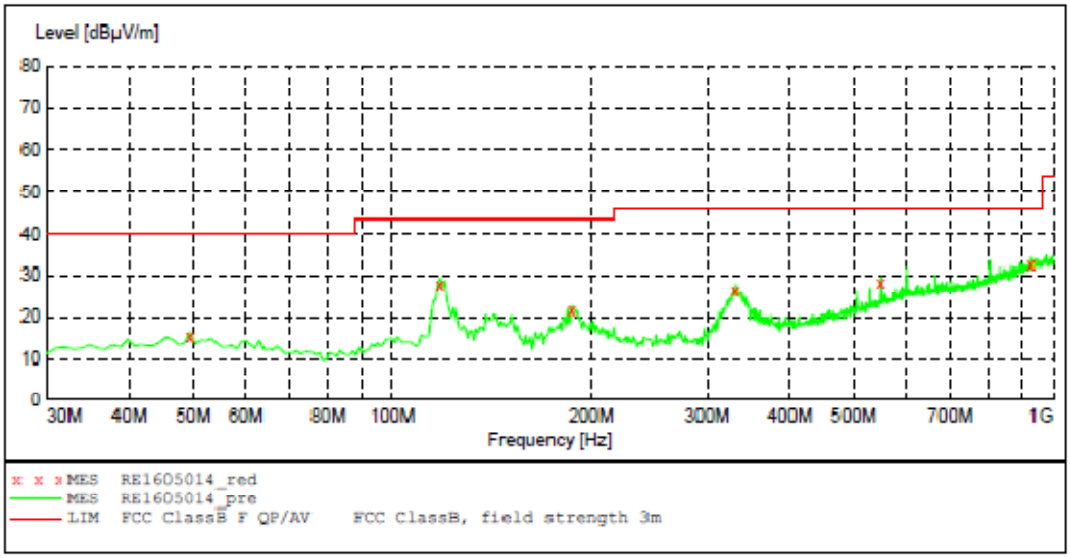
■ **30MHz ~ 1GHz**

Worst case mode	Vertical



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
73.650000	23.60	-17.6	40.0	16.4	QP	100.0	5.00	VERTICAL
118.270000	31.10	-15.7	43.5	12.4	QP	100.0	257.00	VERTICAL
139.610000	26.60	-18.2	43.5	16.9	QP	100.0	145.00	VERTICAL
189.080000	30.70	-14.8	43.5	12.8	QP	100.0	316.00	VERTICAL
600.360000	30.70	-2.7	46.0	15.3	QP	100.0	148.00	VERTICAL
958.290000	30.90	3.8	46.0	15.1	QP	100.0	16.00	VERTICAL

Worst case mode	Horizontal



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	15.30	-14.4	40.0	24.7	QP	300.0	210.00	HORIZONTAL
118.270000	27.50	-15.7	43.5	16.0	QP	300.0	6.00	HORIZONTAL
187.140000	21.50	-15.0	43.5	22.0	QP	100.0	149.00	HORIZONTAL
331.670000	25.90	-12.7	46.0	20.1	QP	100.0	320.00	HORIZONTAL
549.920000	28.60	-4.8	46.0	17.4	QP	100.0	149.00	HORIZONTAL
927.250000	32.40	3.2	46.0	13.6	QP	300.0	268.00	HORIZONTAL

■ **Above 1 GHz ~12.75GHz**

CH01 for 802.11b									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2400.00	48.09	27.58	3.90	35.62	43.95	74.00	-30.05	Vertical	Peak
4824.00	41.05	29.18	8.61	37.99	40.85	74.00	-33.15	Vertical	
7236.00	34.96	36.17	10.95	38.15	43.93	74.00	-30.07	Vertical	
9648.00	37.81	38.20	12.17	38.08	50.10	74.00	-23.90	Vertical	
12060.00	*					74.00		Vertical	
2400.00	47.51	27.58	3.90	35.62	43.37	74.00	-30.63	Horizontal	
4824.00	39.65	32.00	9.53	38.39	42.79	74.00	-31.21	Horizontal	
7236.00	37.85	35.92	6.94	35.18	45.53	74.00	-28.47	Horizontal	
9648.00	40.41	38.20	12.17	38.08	52.70	74.00	-21.30	Horizontal	
12060.00	*					74.00		Horizontal	
2400.00	41.09	27.58	3.90	35.62	36.95	54.00	-17.05	Vertical	Average
4824.00	38.46	29.18	8.61	37.99	38.26	54.00	-15.74	Vertical	
7236.00	29.33	36.17	10.95	38.15	38.30	54.00	-15.70	Vertical	
9648.00	28.99	38.20	12.17	38.08	41.28	54.00	-12.72	Vertical	
12060.00	*					54.00		Vertical	
2400.00	39.64	27.58	3.90	35.62	35.50	54.00	-18.50	Horizontal	
4824.00	40.27	32.00	9.53	38.39	43.41	54.00	-10.59	Horizontal	
7236.00	28.68	35.92	6.94	35.18	36.36	54.00	-17.64	Horizontal	
9648.00	27.48	38.20	12.17	38.08	39.77	54.00	-14.23	Horizontal	
12060.00	*					54.00		Horizontal	

CH06 for 802.11b									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4874.00	40.63	27.58	3.90	35.62	36.49	74.00	-37.51	Vertical	Peak
7311.00	35.89	29.18	8.61	37.99	35.69	74.00	-38.31	Vertical	
9748.00	36.89	36.17	10.95	38.15	45.86	74.00	-28.14	Vertical	
12185.00	*					74.00		Vertical	
4874.00	38.11	30.24	8.81	38.17	38.99	74.00	-35.01	Horizontal	
7311.00	35.48	35.44	10.53	38.02	43.43	74.00	-30.57	Horizontal	
9748.00	37.9	38.2	12.17	38.08	50.19	74.00	-23.81	Horizontal	
12185.00	*					74.00		Horizontal	
4874.00	39.12	30.91	8.99	38.34	40.68	54.00	-13.32	Vertical	Average
7311.00	29.37	35.44	10.53	38.02	37.32	54.00	-16.68	Vertical	
9748.00	27.97	38.02	12.17	38.08	40.08	54.00	-13.92	Vertical	
12185.00	*					54.00		Vertical	
4874.00	43.28	30.24	8.81	38.17	44.16	54.00	-9.84	Horizontal	
7311.00	28.08	35.44	10.53	38.02	36.03	54.00	-17.97	Horizontal	
9748.00	28.62	38.2	12.17	38.08	40.91	54.00	-13.09	Horizontal	
12185.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH11 for 802.11b									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	49.09	27.85	3.96	35.65	45.25	74.00	-28.75	Vertical	Peak
4924.00	44.61	31.17	9.31	38.62	46.47	74.00	-27.53	Vertical	
7386.00	35.53	36.72	11.24	38.24	45.25	74.00	-28.75	Vertical	
9848.00	36.56	38.33	12.39	38.12	49.16	74.00	-24.84	Vertical	
12310.00	*					74.00		Vertical	
2400.00	47.27	27.85	3.96	35.65	43.43	74.00	-30.57	Horizontal	
4924.00	48.34	31.17	9.31	38.62	50.20	74.00	-23.80	Horizontal	
7386.00	39.91	36.13	10.93	38.14	48.83	74.00	-25.17	Horizontal	
9848.00	40.58	38.33	12.39	38.12	53.18	74.00	-20.82	Horizontal	
12310.00	*					74.00		Horizontal	
2483.50	41.17	27.85	3.96	35.65	37.33	54.00	-16.67	Vertical	Average
4924.00	40.10	31.17	9.31	38.62	41.96	54.00	-12.04	Vertical	
7386.00	28.03	36.72	11.24	38.24	37.75	54.00	-16.25	Vertical	
9848.00	27.16	38.33	12.39	38.12	39.76	54.00	-14.24	Vertical	
12310.00	*					54.00		Vertical	
2483.50	38.84	27.85	3.96	35.65	35.00	54.00	-19.00	Horizontal	
4924.00	43.59	31.17	9.31	38.62	45.45	54.00	-8.55	Horizontal	
7386.00	25.81	36.13	10.93	38.14	34.73	54.00	-19.27	Horizontal	
9848.00	28.41	38.33	12.39	38.12	41.01	54.00	-12.99	Horizontal	
12310.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH01 for 802.11g									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2400.00	47.38	27.58	3.90	35.62	43.24	74.00	-30.76	Vertical	Peak
4824.00	43.39	29.18	8.61	37.99	43.19	74.00	-30.81	Vertical	
7236.00	33.09	36.17	10.95	38.15	42.06	74.00	-31.94	Vertical	
9648.00	34.52	38.2	12.17	38.08	46.81	74.00	-27.19	Vertical	
12060.00	*					74.00		Vertical	
2400.00	46.07	27.58	3.90	35.62	41.93	74.00	-32.07	Horizontal	
4824.00	40.87	32	9.53	38.39	44.01	74.00	-29.99	Horizontal	
7236.00	36.49	35.92	6.94	35.18	44.17	74.00	-29.83	Horizontal	
9648.00	34.67	38.2	12.17	38.08	46.96	74.00	-27.04	Horizontal	
12060.00	*					74.00		Horizontal	
2400.00	40.45	27.58	3.90	35.62	36.31	54.00	-17.69	Vertical	Average
4824.00	38.46	29.18	8.61	37.99	38.26	54.00	-15.74	Vertical	
7236.00	27.96	36.17	10.95	38.15	36.93	54.00	-17.07	Vertical	
9648.00	27.65	38.2	12.17	38.08	39.94	54.00	-14.06	Vertical	
12060.00	*					54.00		Vertical	
2400.00	38.46	27.58	3.90	35.62	34.32	54.00	-19.68	Horizontal	
4824.00	35.07	32	9.53	38.39	38.21	54.00	-15.79	Horizontal	
7236.00	29.70	35.92	6.94	35.18	37.38	54.00	-16.62	Horizontal	
9648.00	28.29	38.2	12.17	38.08	40.58	54.00	-13.42	Horizontal	
12060.00	*					54.00		Horizontal	

CH06 for 802.11g									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4874.00	43.41	30.91	8.99	38.34	44.97	74.00	-29.03	Vertical	Peak
7311.00	35.21	35.44	10.53	38.02	43.16	74.00	-30.84	Vertical	
9748.00	36.47	38.02	12.17	38.08	48.58	74.00	-25.42	Vertical	
12185.00	*					74.00		Vertical	
4874.00	45.26	30.24	8.81	38.17	46.14	74.00	-27.86	Horizontal	
7311.00	36.22	35.44	10.53	38.02	44.17	74.00	-29.83	Horizontal	
9748.00	35.88	38.2	12.17	38.08	48.17	74.00	-25.83	Horizontal	
12185.00	*					74.00		Horizontal	
4874.00	36.94	30.91	8.99	38.34	38.50	54.00	-15.50	Vertical	Average
7311.00	29.92	35.44	10.53	38.02	37.87	54.00	-16.13	Vertical	
9748.00	27.44	38.02	12.17	38.08	39.55	54.00	-14.45	Vertical	
12185.00	*					54.00		Vertical	
4874.00	37.02	30.24	8.81	38.17	37.90	54.00	-16.10	Horizontal	
7311.00	28.68	35.44	10.53	38.02	36.63	54.00	-17.37	Horizontal	
9748.00	27.55	38.2	12.17	38.08	39.84	54.00	-14.16	Horizontal	
12185.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH11 for 802.11g									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	48.44	27.85	3.96	35.65	44.60	74.00	-29.40	Vertical	Peak
4924.00	41.92	31.17	9.31	38.62	43.78	74.00	-30.22	Vertical	
7386.00	34.28	36.72	11.24	38.24	44.00	74.00	-30.00	Vertical	
9848.00	35.89	38.33	12.39	38.12	48.49	74.00	-25.51	Vertical	
12310.00	*					74.00		Vertical	
2483.50	45.89	27.85	3.96	35.65	42.05	74.00	-31.95	Horizontal	
4924.00	43.87	31.17	9.31	38.62	45.73	74.00	-28.27	Horizontal	
7386.00	34.84	36.13	10.93	38.14	43.76	74.00	-30.24	Horizontal	
9848.00	35.00	38.33	12.39	38.12	47.60	74.00	-26.40	Horizontal	
12310.00	*					74.00		Horizontal	
2483.50	38.90	27.85	3.96	35.65	35.06	54.00	-18.94	Vertical	Average
4924.00	36.15	31.17	9.31	38.62	38.01	54.00	-15.99	Vertical	
7386.00	28.80	36.72	11.24	38.24	38.52	54.00	-15.48	Vertical	
9848.00	27.93	38.33	12.39	38.12	40.53	54.00	-13.47	Vertical	
12310.00	*					54.00		Vertical	
2483.50	39.44	27.85	3.96	35.65	35.60	54.00	-18.40	Horizontal	
4924.00	35.86	31.17	9.31	38.62	37.72	54.00	-16.28	Horizontal	
7386.00	27.72	36.13	10.93	38.14	36.64	54.00	-17.36	Horizontal	
9848.00	27.01	38.33	12.39	38.12	39.61	54.00	-14.39	Horizontal	
12310.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH01 for 802.11n(H20)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2400.00	47.67	27.58	3.90	35.62	43.53	74.00	-30.47	Vertical	Peak
4824.00	40.59	29.18	8.61	37.99	40.39	74.00	-33.61		
7236.00	34.47	36.17	10.95	38.15	43.44	74.00	-30.56	Vertical	
9648.00	35.92	38.2	12.17	38.08	48.21	74.00	-25.79	Vertical	
12060.00	*					74.00		Vertical	
2400.00	45.32	27.58	3.90	35.62	41.18	74.00	-32.82	Horizontal	
4824.00	34.43	32	9.53	38.39	37.57	74.00	-36.43	Horizontal	
7236.00	39	35.92	6.94	35.18	46.68	74.00	-27.32	Horizontal	
9648.00	35.63	38.2	12.17	38.08	47.92	74.00	-26.08	Horizontal	
12060.00	*					74.00		Horizontal	
2400.00	39.23	27.58	3.90	35.62	35.09	54.00	-18.91	Vertical	Average
4824.00	35.7	29.18	8.61	37.99	35.50	54.00	-18.50	Vertical	
7236.00	27.53	36.17	10.95	38.15	36.50	54.00	-17.50	Vertical	
9648.00	26.59	38.2	12.17	38.08	38.88	54.00	-15.12	Vertical	
12060.00	*					54.00		Vertical	
2400.00	40	27.58	3.90	35.62	35.86	54.00	-18.14	Horizontal	
4824.00	33.15	32	9.53	38.39	36.29	54.00	-17.71	Horizontal	
7236.00	30.1	35.92	6.94	35.18	37.78	54.00	-16.22	Horizontal	
9648.00	27.99	38.2	12.17	38.08	40.28	54.00	-13.72	Horizontal	
12060.00	*					54.00		Horizontal	

CH06 for 802.11n(H20)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4874.00	39.36	30.91	8.99	38.34	40.92	74.00	-33.08	Vertical	Peak
7311.00	36.78	35.44	10.53	38.02	44.73	74.00	-29.27	Vertical	
9748.00	34.67	38.02	12.17	38.08	46.78	74.00	-27.22	Vertical	
12185.00	*					74.00		Vertical	
4874.00	41.92	30.24	8.81	38.17	42.80	74.00	-31.20	Horizontal	
7311.00	35.52	35.44	10.53	38.02	43.47	74.00	-30.53	Horizontal	
9748.00	34.66	38.2	12.17	38.08	46.95	74.00	-27.05	Horizontal	
12185.00	*					74.00		Horizontal	
4874.00	33.84	30.91	8.99	38.34	35.40	54.00	-18.60	Vertical	Average
7311.00	27.06	35.44	10.53	38.02	35.01	54.00	-18.99	Vertical	
9748.00	27.89	38.02	12.17	38.08	40.00	54.00	-14.00	Vertical	
12185.00	*					54.00		Vertical	
4874.00	34.02	30.24	8.81	38.17	34.90	54.00	-19.10	Horizontal	
7311.00	29.35	35.44	10.53	38.02	37.30	54.00	-16.70	Horizontal	
9748.00	27.53	38.2	12.17	38.08	39.82	54.00	-14.18	Horizontal	
12185.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH11 for 802.11n(H20)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	47.05	27.85	3.96	35.65	43.21	74.00	-30.79	Vertical	Peak
4924.00	38.88	31.17	9.31	38.62	40.74	74.00	-33.26		
7386.00	33.95	36.72	11.24	38.24	43.67	74.00	-30.33	Vertical	
9848.00	35.09	38.33	12.39	38.12	47.69	74.00	-26.31	Vertical	
12310.00	*					74.00		Vertical	
2483.50	46.27	27.85	3.96	35.65	42.43	74.00	-31.57	Horizontal	
4924.00	40.6	31.17	9.31	38.62	42.46	74.00	-31.54	Horizontal	
7386.00	36.63	36.13	10.93	38.14	45.55	74.00	-28.45	Horizontal	
9848.00	35.05	38.33	12.39	38.12	47.65	74.00	-26.35	Horizontal	
12310.00	*					74.00		Horizontal	
2483.50	40.1	27.85	3.96	35.65	36.26	54.00	-17.74	Vertical	Average
4924.00	34.2	31.17	9.31	38.62	36.06	54.00	-17.94	Vertical	
7386.00	26.85	36.72	11.24	38.24	36.57	54.00	-17.43	Vertical	
9848.00	28.24	38.33	12.39	38.12	40.84	54.00	-13.16	Vertical	
12310.00	*					54.00		Vertical	
2483.50	39.01	27.85	3.96	35.65	35.17	54.00	-18.83	Horizontal	
4924.00	35.26	31.17	9.31	38.62	37.12	54.00	-16.88	Horizontal	
7386.00	27.72	36.13	10.93	38.14	36.64	54.00	-17.36	Horizontal	
9848.00	26.57	38.33	12.39	38.12	39.17	54.00	-14.83	Horizontal	
12310.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

CH03 for 802.11n(H40)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2400.00	47.39	27.58	3.90	35.62	43.25	74.00	-30.75	Vertical	Peak
4824.00	40.36	29.18	8.61	37.99	40.16	74.00	-33.84		
7236.00	32.62	36.17	10.95	38.15	41.59	74.00	-32.41	Vertical	
9648.00	35.73	38.2	12.17	38.08	48.02	74.00	-25.98	Vertical	
12060.00	*					74.00		Vertical	
2400.00	47.38	27.58	3.90	35.62	43.24	74.00	-30.76	Horizontal	
4824.00	39.52	32	9.53	38.39	42.66	74.00	-31.34	Horizontal	
7236.00	36.43	35.92	6.94	35.18	44.11	74.00	-29.89	Horizontal	
9648.00	36.38	38.2	12.17	38.08	48.67	74.00	-25.33	Horizontal	
12060.00	*					74.00		Horizontal	
2400.00	40.12	27.58	3.90	35.62	35.98	54.00	-18.02	Vertical	Average
4824.00	35.7	29.18	8.61	37.99	35.50	54.00	-18.50	Vertical	
7236.00	28.15	36.17	10.95	38.15	37.12	54.00	-16.88	Vertical	
9648.00	28.08	38.2	12.17	38.08	40.37	54.00	-13.63	Vertical	
12060.00	*					54.00		Vertical	
2400.00	39.85	27.58	3.90	35.62	35.71	54.00	-18.29	Horizontal	
4824.00	35.76	32	9.53	38.39	38.90	54.00	-15.10	Horizontal	
7236.00	30.79	35.92	6.94	35.18	38.47	54.00	-15.53	Horizontal	
9648.00	26.41	38.2	12.17	38.08	38.70	54.00	-15.30	Horizontal	
12060.00	*					54.00		Horizontal	

CH06 for 802.11n(H40)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4874.00	39.45	30.91	8.99	38.34	41.01	74.00	-32.99	Vertical	Peak
7311.00	33.74	35.44	10.53	38.02	41.69	74.00	-32.31	Vertical	
9748.00	35.39	38.02	12.17	38.08	47.50	74.00	-26.50	Vertical	
12185.00	*					74.00		Vertical	
4874.00	41.1	30.24	8.81	38.17	41.98	74.00	-32.02	Horizontal	
7311.00	35.56	35.44	10.53	38.02	43.51	74.00	-30.49	Horizontal	
9748.00	35.54	38.2	12.17	38.08	47.83	74.00	-26.17	Horizontal	
12185.00	*					74.00		Horizontal	
4874.00	34.86	30.91	8.99	38.34	36.42	54.00	-17.58	Vertical	Average
7311.00	26.92	35.44	10.53	38.02	34.87	54.00	-19.13	Vertical	
9748.00	28.11	38.02	12.17	38.08	40.22	54.00	-13.78	Vertical	
12185.00	*					54.00		Vertical	
4874.00	35.84	30.24	8.81	38.17	36.72	54.00	-17.28	Horizontal	
7311.00	28.66	35.44	10.53	38.02	36.61	54.00	-17.39	Horizontal	
9748.00	28.12	38.2	12.17	38.08	40.41	54.00	-13.59	Horizontal	
12185.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

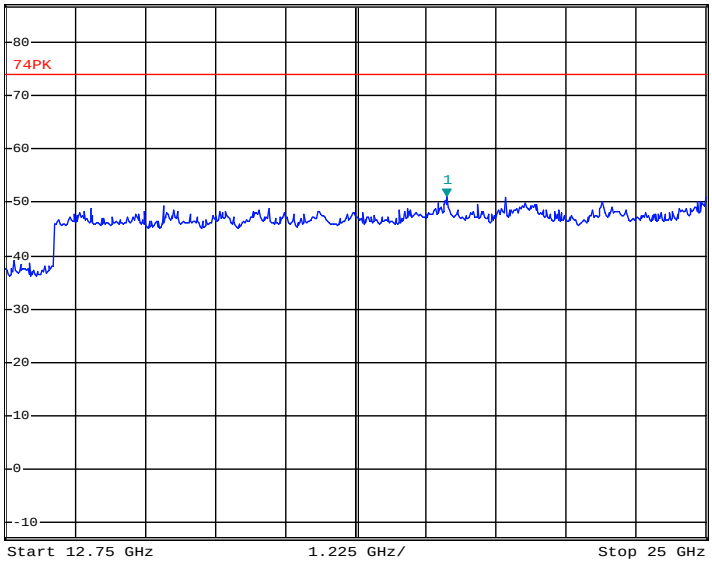
CH09 for 802.11n(H40)									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	45.35	27.85	3.96	35.65	41.51	74.00	-32.49	Vertical	Peak
4924.00	39.43	31.17	9.31	38.62	41.29	74.00	-32.71		
7386.00	33.31	36.72	11.24	38.24	43.03	74.00	-30.97	Vertical	
9848.00	34.1	38.33	12.39	38.12	46.70	74.00	-27.30	Vertical	
12310.00	*					74.00		Vertical	
2483.50	44.84	27.85	3.96	35.65	41.00	74.00	-33.00	Horizontal	
4924.00	41.26	31.17	9.31	38.62	43.12	74.00	-30.88	Horizontal	
7386.00	34.31	36.13	10.93	38.14	43.23	74.00	-30.77	Horizontal	
9848.00	35.76	38.33	12.39	38.12	48.36	74.00	-25.64	Horizontal	
12310.00	*					74.00		Horizontal	
2483.50	38.45	27.85	3.96	35.65	34.61	54.00	-19.39	Vertical	Average
4924.00	34.32	31.17	9.31	38.62	36.18	54.00	-17.82	Vertical	
7386.00	26.56	36.72	11.24	38.24	36.28	54.00	-17.72	Vertical	
9848.00	25.87	38.33	12.39	38.12	38.47	54.00	-15.53	Vertical	
12310.00	*					54.00		Vertical	
2483.50	39.62	27.85	3.96	35.65	35.78	54.00	-18.22	Horizontal	
4924.00	34.09	31.17	9.31	38.62	35.95	54.00	-18.05	Horizontal	
7386.00	28.6	36.13	10.93	38.14	37.52	54.00	-16.48	Horizontal	
9848.00	27.4	38.33	12.39	38.12	40.00	54.00	-14.00	Horizontal	
12310.00	*					54.00		Horizontal	

Remark:

1. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *"*", means this data is the too weak instrument of signal is unable to test.*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*

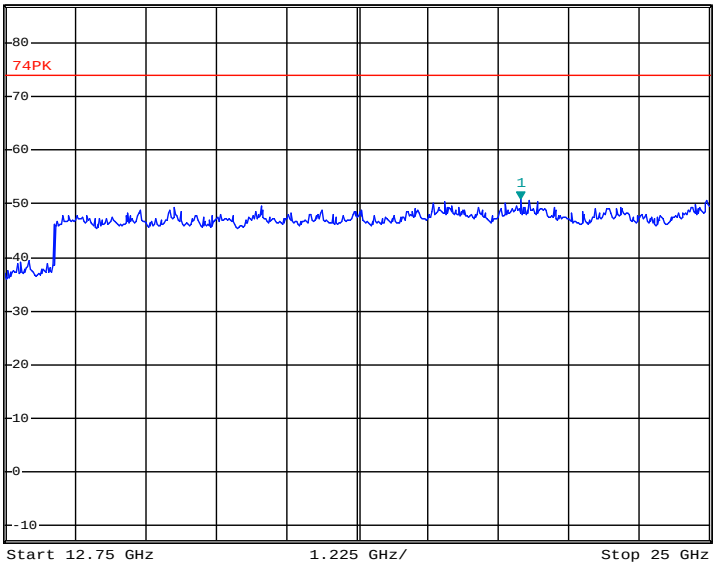
■ **Above 12.75GHz ~25 GHz**

CH01 for 802.11b	Worst case



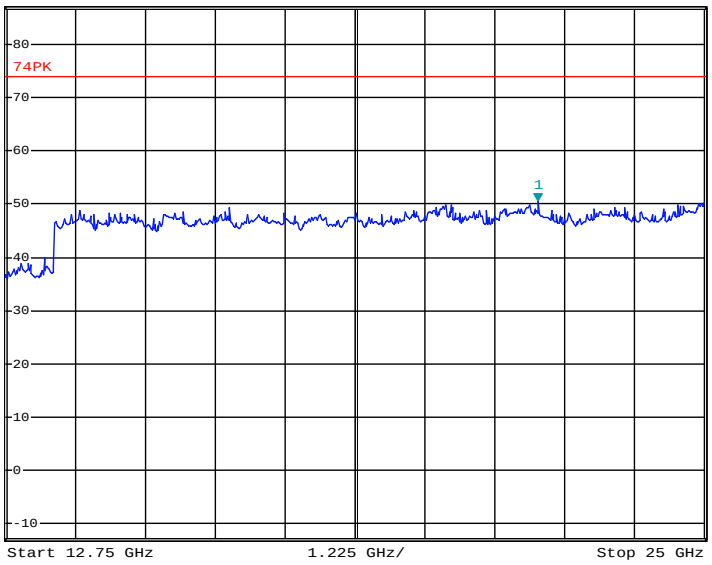
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.4675	51.09	74	Pass

CH07 for 802.11b	Worst case



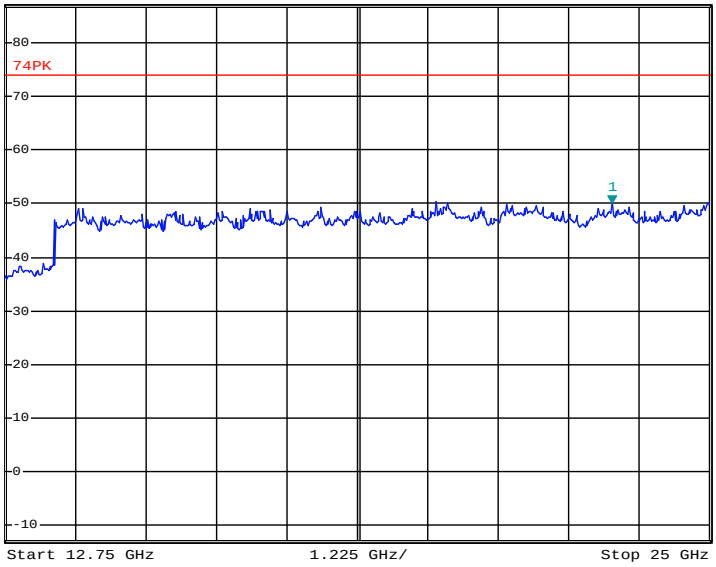
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
21.7170	50.95	74	Pass

CH11 for 802.11b	Worst case



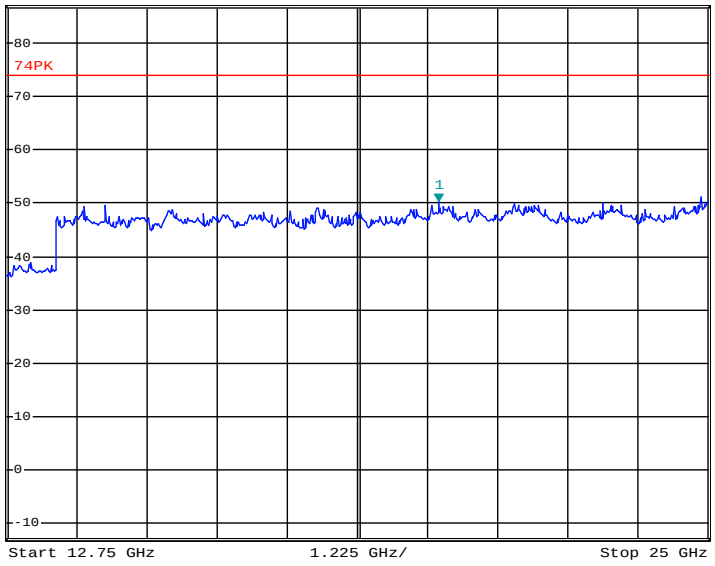
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
22.0845	50.73	74	Pass

CH01 for 802.11g	Worst case



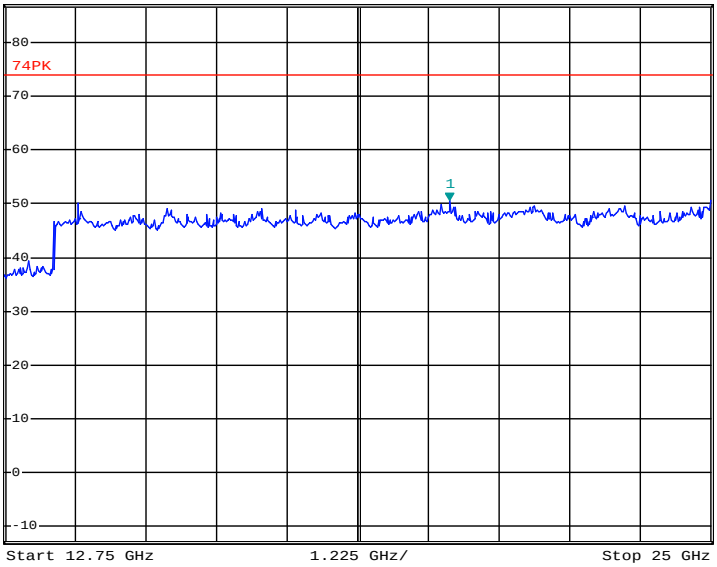
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
23.3095	50.25	74	Pass

CH07 for 802.11g	Worst case



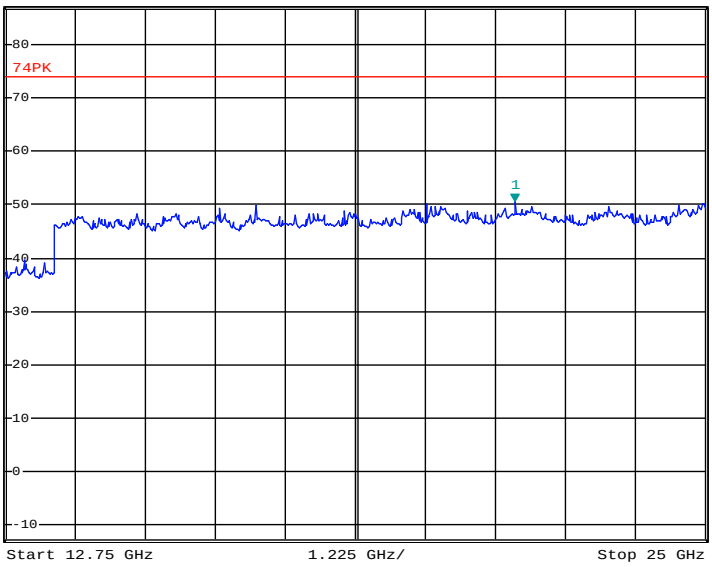
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.2960	50.28	74	Pass

CH11 for 802.11g	Worst case



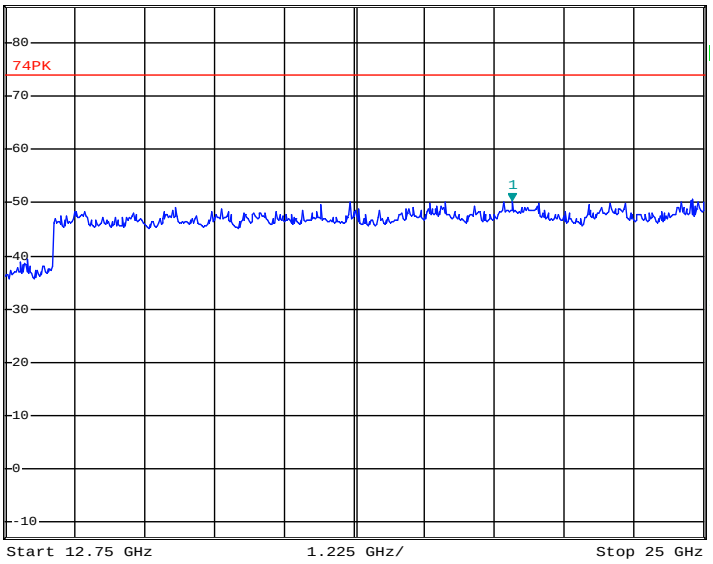
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.4675	50.64	74	Pass

CH01 for 802.11 n(H20)	Worst case



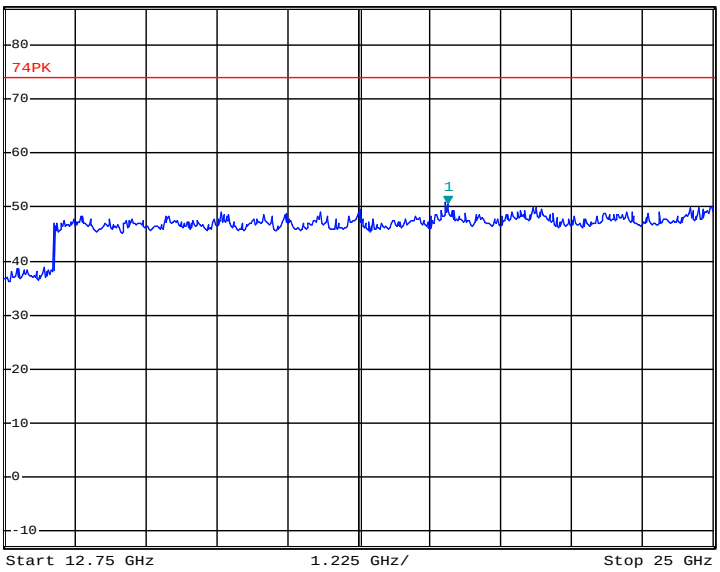
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
21.6680	50.52	74	Pass

CH07 for 802.11 n(H20)	Worst case



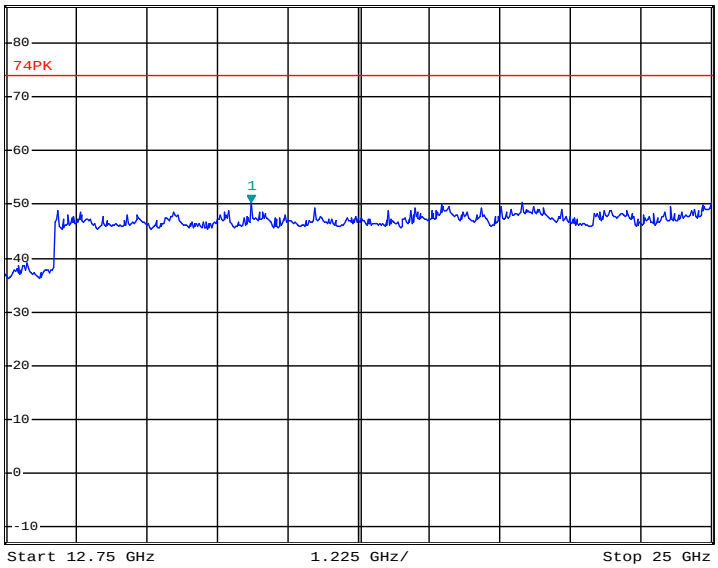
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
21.6435	50.35	74	Pass

CH11 for 802.11 n(H20)	Worst case



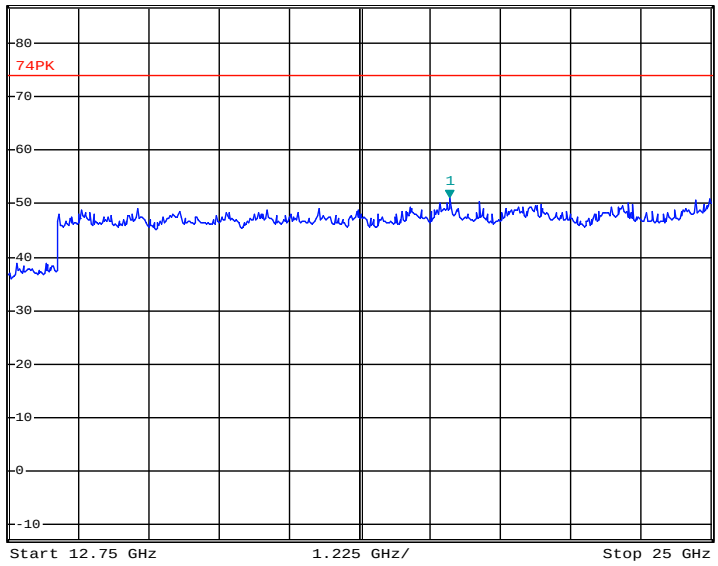
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.4185	50.61	74	Pass

CH03 for 802.11 n(H40)	Worst case



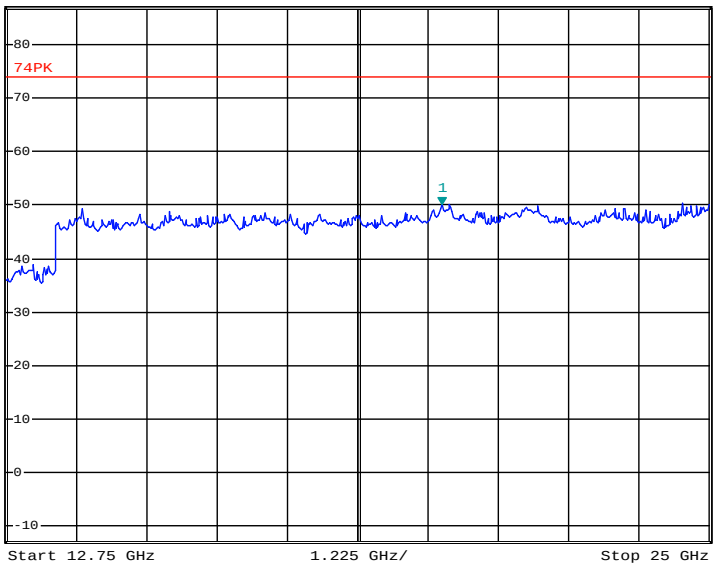
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
17.0130	50.43	74	Pass

CH07 for 802.11 n(H40)	Worst case



Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.4430	51.09	74	Pass

CH09 for 802.11 n(H40)	Worst case

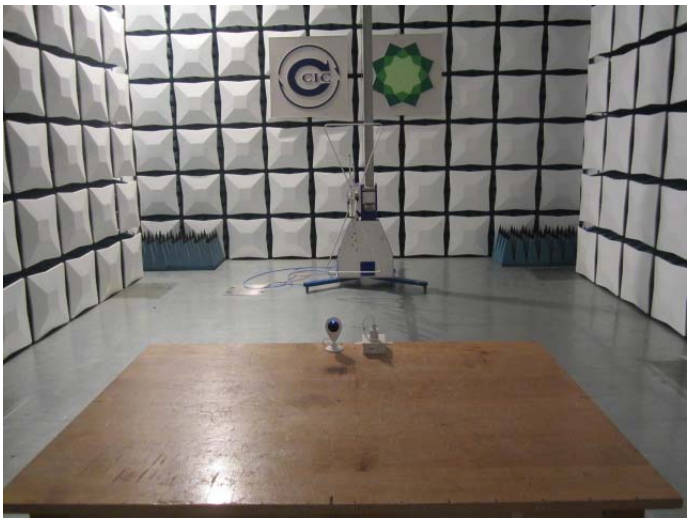


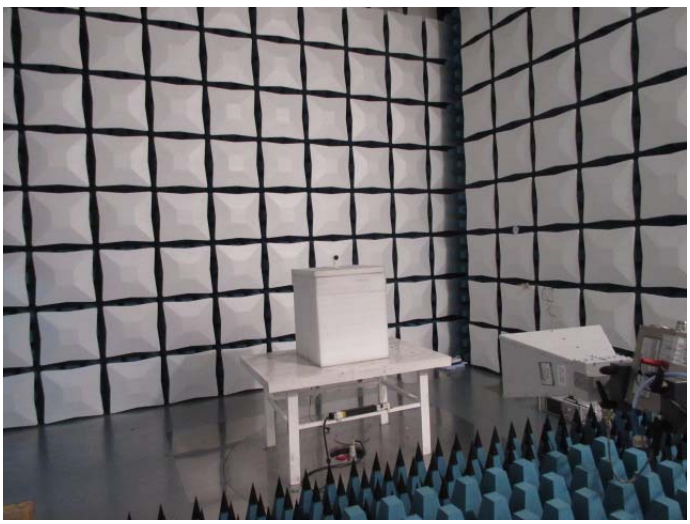
Frequency (GHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Result
20.3450	50.02	74	Pass

5. Test Setup Photos of the EUT

Conducted Emission

Radiated Emission



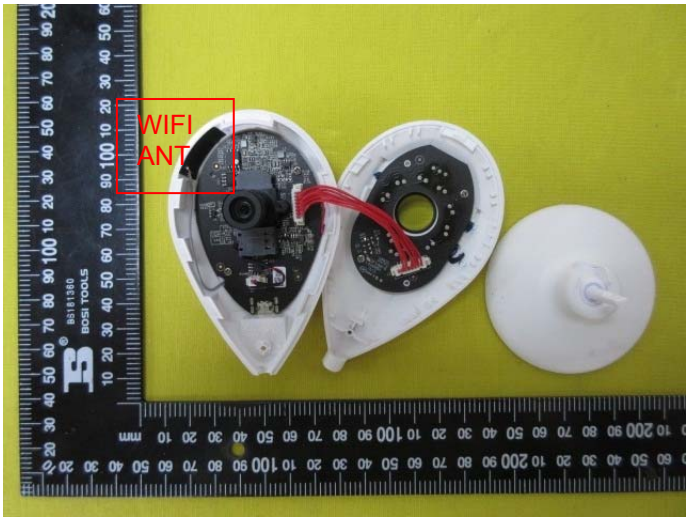


6. External and Internal Photos of the EUT

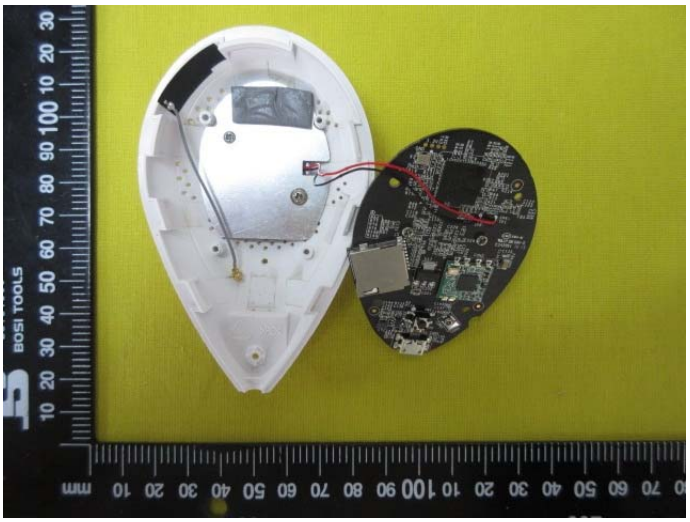
External photos

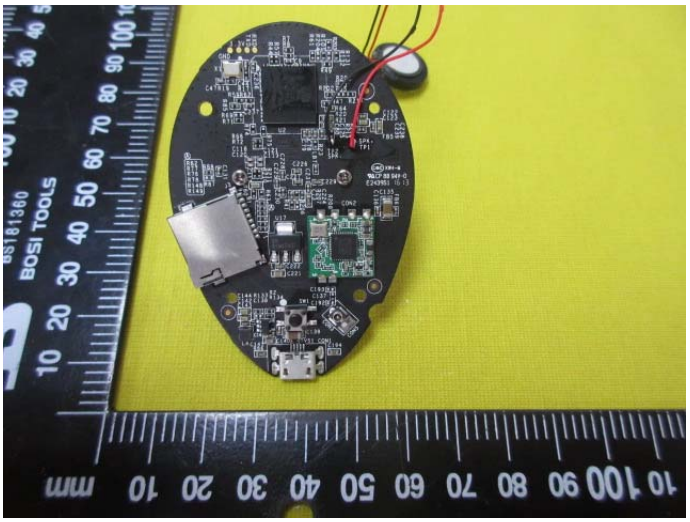
BOSI TOOLS
mm

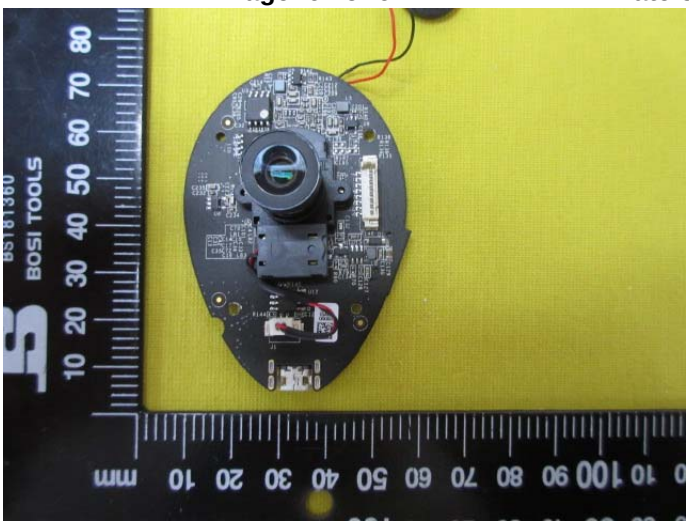
Internal photos



BOSI TOOLS
R
G


BOSI TOOLS


BOSI TOOLS



.....End of Report.....