

6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

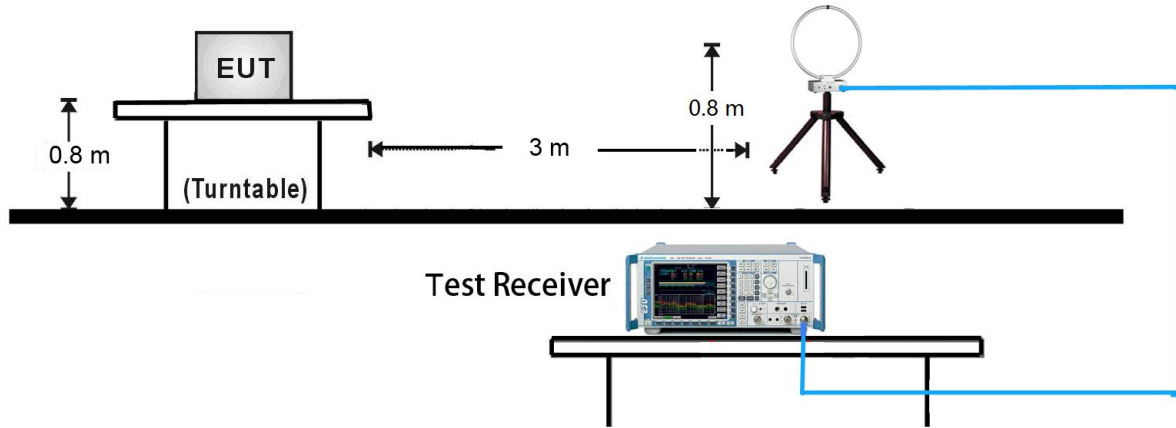
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

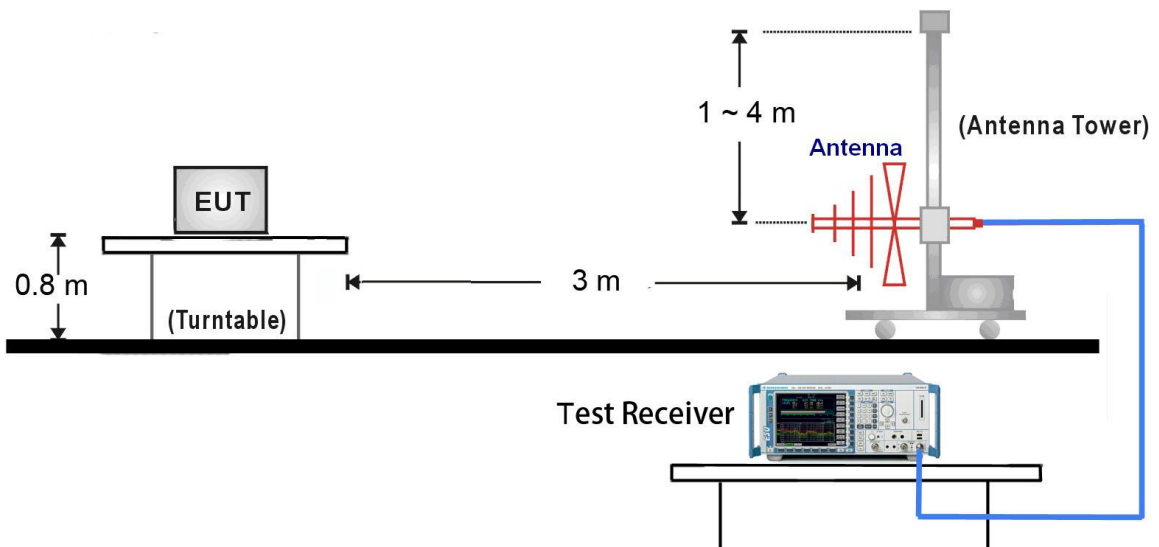
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

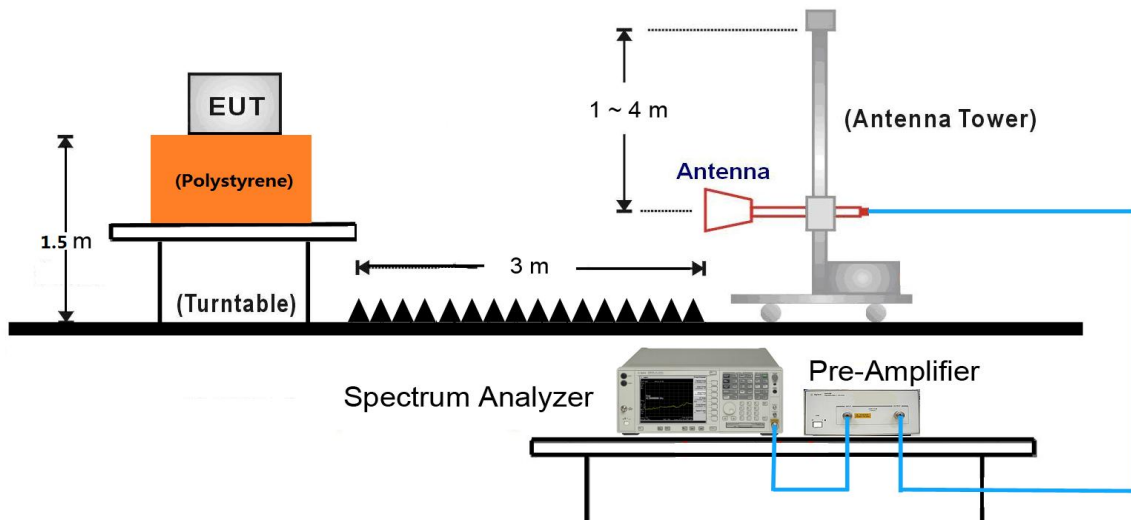
9kHz ~ 30MHz Test Setup:



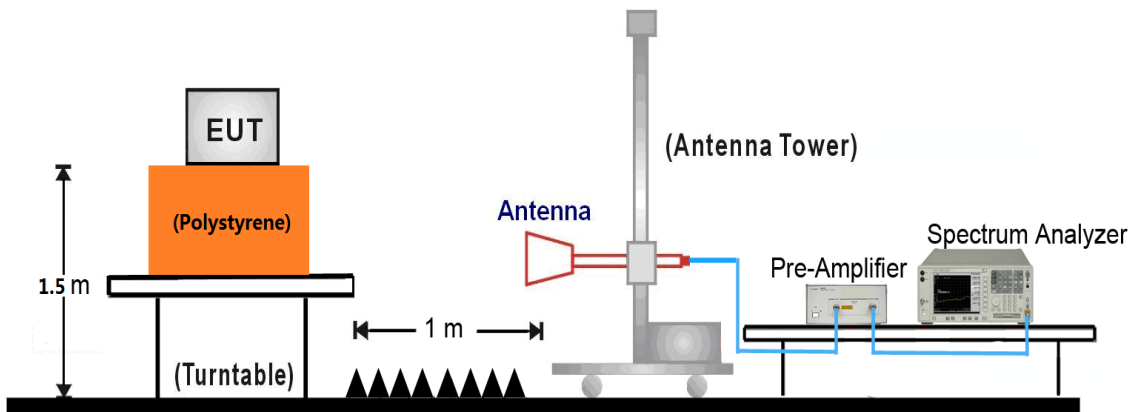
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.6.5. Test Result
Model No.: APEX0374

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/13
Test Mode:	BLE	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4655.0	33.1	3.4	36.5	74.0	-37.5	Peak	Horizontal
	5420.0	34.2	4.1	38.3	74.0	-35.7	Peak	Horizontal
*	7205.0	34.9	12.1	47.0	75.2	-28.2	Peak	Horizontal
*	8692.5	29.6	13.7	43.3	75.2	-31.9	Peak	Horizontal
	5088.5	33.5	4.1	37.6	74.0	-36.4	Peak	Vertical
	5420.0	34.0	4.1	38.1	74.0	-35.9	Peak	Vertical
*	7205.0	41.8	12.1	53.9	75.2	-21.3	Peak	Vertical
*	8769.0	29.2	13.9	43.1	75.2	-32.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.2dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	BLE	Test Channel:	19
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4740.0	35.7	3.6	39.3	74.0	-34.7	Peak	Horizontal
	5394.5	33.2	4.0	37.2	74.0	-36.8	Peak	Horizontal
*	7171.0	29.4	11.9	41.3	74.0	-32.7	Peak	Horizontal
*	8769.0	28.0	13.9	41.9	74.0	-32.1	Peak	Horizontal
	7324.0	33.6	12.4	46.0	74.0	-28.0	Peak	Vertical
	8242.0	29.3	11.9	41.2	74.0	-32.8	Peak	Vertical
*	9993.0	29.0	15.4	44.4	74.0	-29.6	Peak	Vertical
*	12713.0	27.5	18.8	46.3	74.0	-27.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (92.5dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	BLE	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7366.5	30.2	12.5	42.7	74.0	-31.3	Peak	Horizontal
	8429.0	30.0	12.4	42.4	74.0	-31.6	Peak	Horizontal
*	9950.5	28.9	15.3	44.2	74.0	-29.8	Peak	Horizontal
*	12721.5	26.6	18.8	45.4	74.0	-28.6	Peak	Horizontal
	7375.0	30.0	12.5	42.5	74.0	-31.5	Peak	Vertical
	8276.0	30.2	11.9	42.1	74.0	-31.9	Peak	Vertical
*	10035.5	29.4	15.5	44.9	74.0	-29.1	Peak	Vertical
*	12721.5	26.6	18.8	45.4	74.0	-28.6	Peak	Vertical

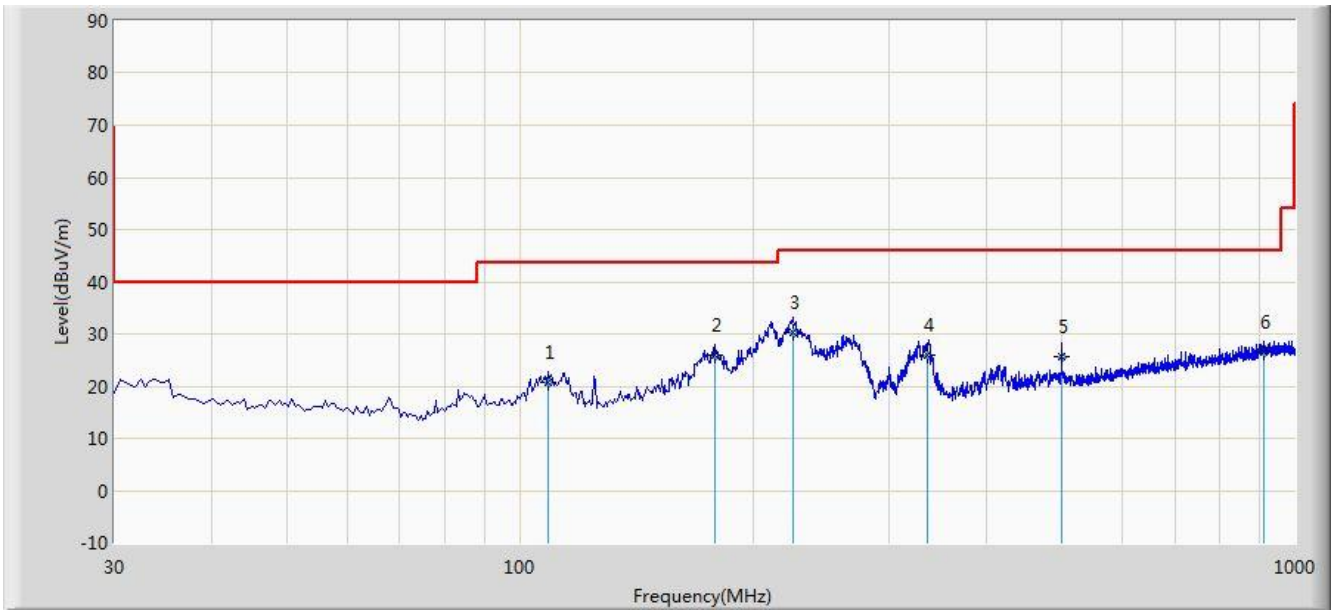
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (90.9dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2017/09/07 - 20:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



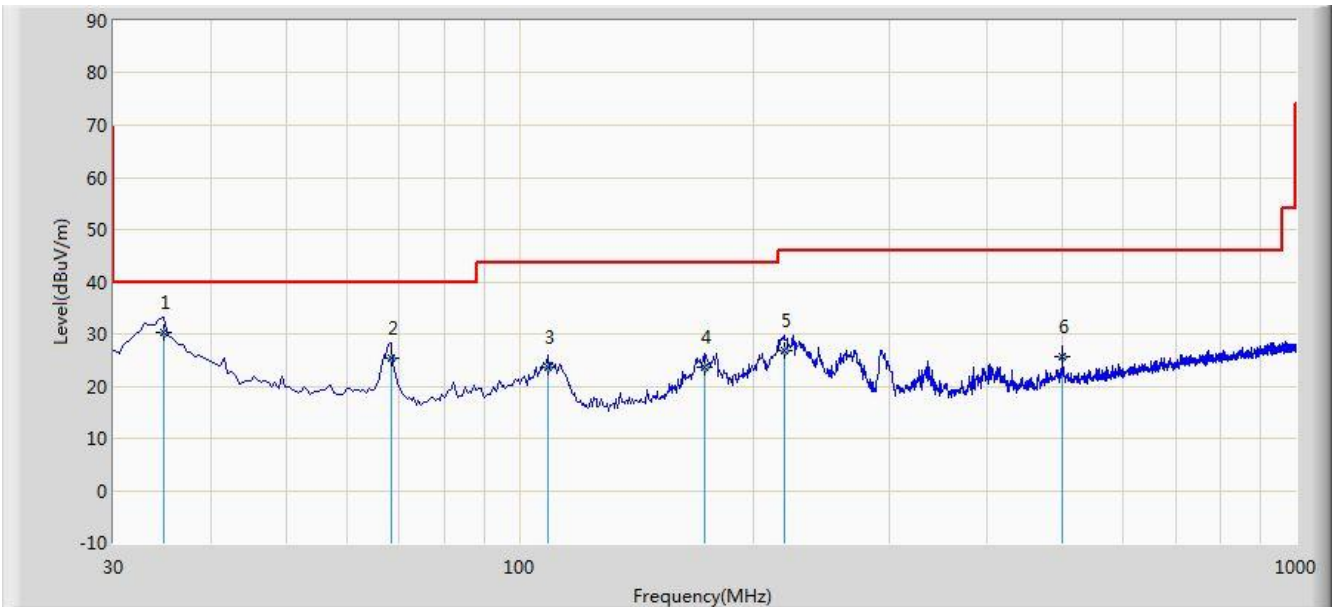
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			109.055	20.693	7.610	-22.807	43.500	13.083	QP
2			178.410	26.007	15.080	-17.493	43.500	10.927	QP
3		*	224.970	30.283	17.290	-15.717	46.000	12.994	QP
4			335.600	25.933	10.190	-20.067	46.000	15.743	QP
5			499.970	25.727	7.150	-20.273	46.000	18.576	QP
6			912.215	26.573	2.060	-19.427	46.000	24.513	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2017/09/07 - 20:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	34.850	30.199	17.280	-9.801	40.000	12.919	QP
2			68.315	25.437	13.950	-14.563	40.000	11.487	QP
3			109.055	23.643	10.560	-19.857	43.500	13.083	QP
4			173.075	23.483	12.950	-20.017	43.500	10.533	QP
5			219.150	26.750	13.980	-19.250	46.000	12.770	QP
6			499.950	25.776	7.200	-20.224	46.000	18.576	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Model No.: APEX0375

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/11/15
Test Mode:	BLE	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4808.0	40.4	2.7	43.1	74.0	-30.9	Peak	Horizontal
	11293.5	31.5	16.9	48.4	74.0	-25.6	Peak	Horizontal
*	14158.0	31.8	20.5	52.3	83.0	-30.7	Peak	Horizontal
*	16487.0	32.3	18.2	50.5	83.0	-32.5	Peak	Horizontal
	4799.5	42.7	2.8	45.5	74.0	-28.5	Peak	Vertical
	11599.5	31.4	17.1	48.5	74.0	-25.5	Peak	Vertical
*	14175.0	30.8	21.4	52.2	83.0	-30.8	Peak	Vertical
*	16589.0	32.7	19.6	52.3	83.0	-30.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.0dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/11/15
Test Mode:	BLE	Test Channel:	19
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4961.0	36.2	2.7	38.9	74.0	-35.1	Peak	Horizontal
	10911.0	32.3	16.4	48.7	74.0	-25.3	Peak	Horizontal
*	13104.0	31.2	18.0	49.2	82.7	-33.5	Peak	Horizontal
*	15161.0	31.6	18.7	50.3	82.7	-32.4	Peak	Horizontal
	4961.0	39.0	2.7	41.7	74.0	-32.3	Peak	Vertical
	11174.5	30.9	16.8	47.7	74.0	-26.3	Peak	Vertical
*	15212.0	31.5	18.6	50.1	82.7	-32.6	Peak	Vertical
*	16385.0	31.7	18.3	50.0	82.7	-32.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.7dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/11/15
Test Mode:	BLE	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4961.0	36.5	2.7	39.2	74.0	-34.8	Peak	Horizontal
	11259.5	31.3	17.0	48.3	74.0	-25.7	Peak	Horizontal
*	14226.0	31.4	21.3	52.7	81.7	-29.0	Peak	Horizontal
*	16623.0	33.2	19.6	52.8	81.7	-28.9	Peak	Horizontal
	4961.0	40.0	2.7	42.7	74.0	-31.3	Peak	Vertical
	11667.5	31.4	17.6	49.0	74.0	-25.0	Peak	Vertical
*	13767.0	31.9	20.1	52.0	81.7	-29.7	Peak	Vertical
*	16623.0	32.8	19.6	52.4	81.7	-29.3	Peak	Vertical

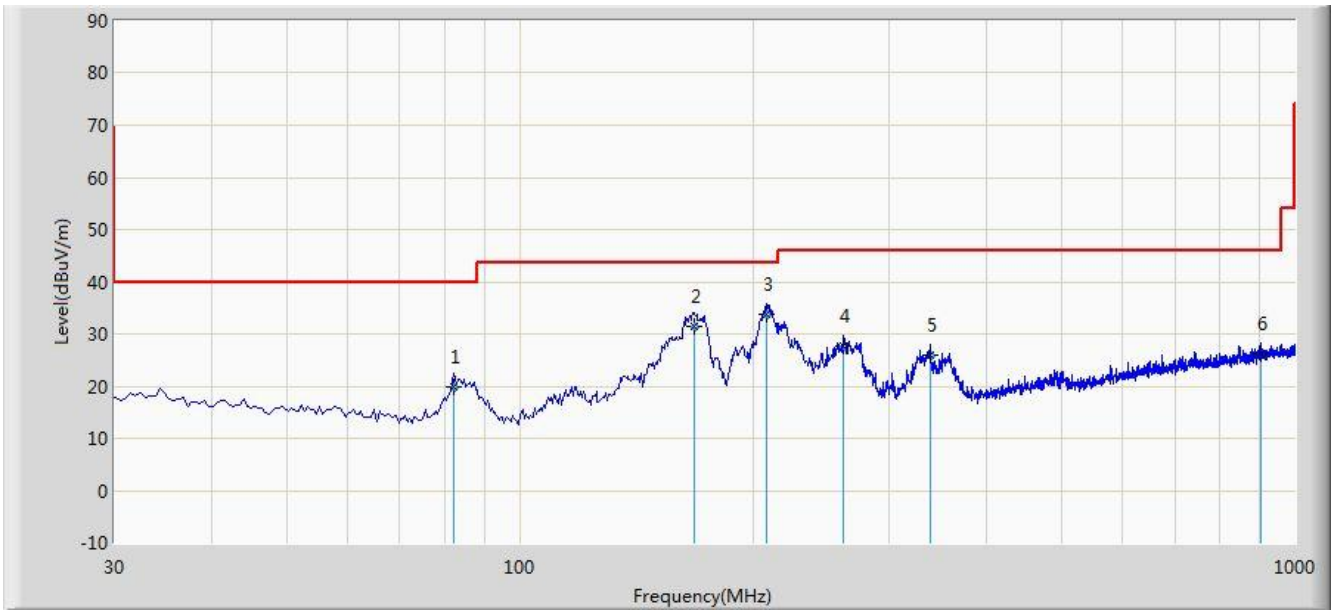
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.7dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2017/09/07 - 21:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



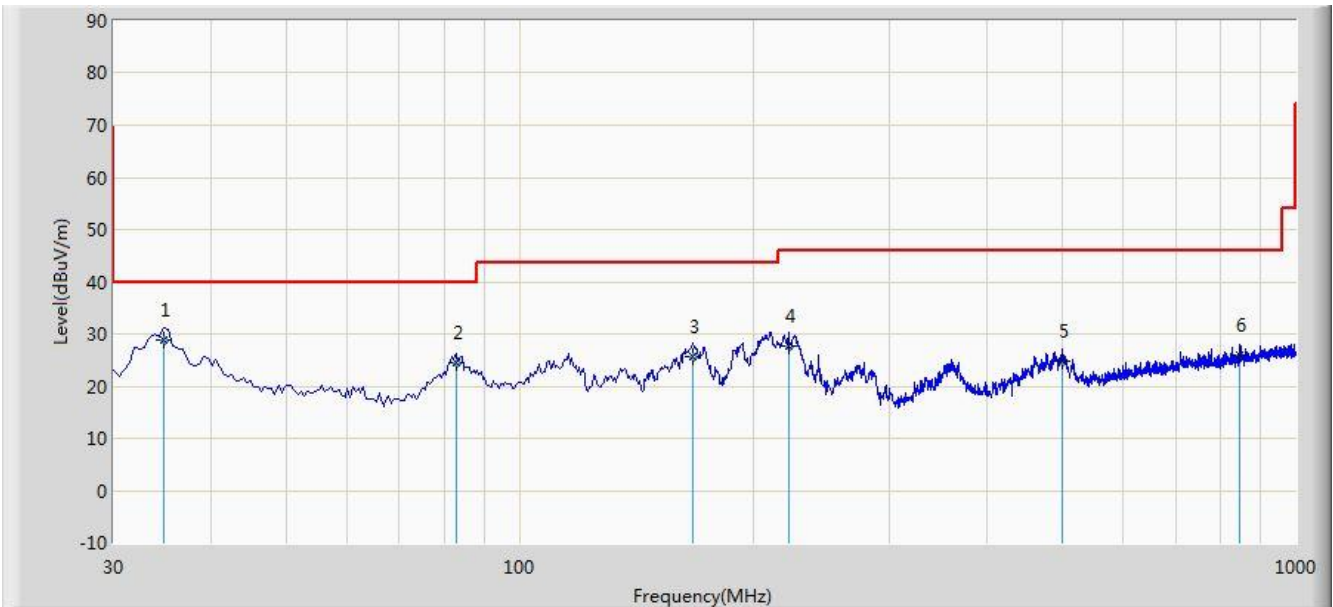
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			82.380	19.837	10.060	-20.163	40.000	9.777	QP
2			167.740	31.430	21.150	-12.070	43.500	10.280	QP
3		*	207.990	33.716	21.180	-9.784	43.500	12.536	QP
4			261.830	27.643	13.550	-18.357	46.000	14.094	QP
5			338.945	25.861	10.020	-20.139	46.000	15.841	QP
6			903.000	26.304	1.854	-19.696	46.000	24.450	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2017/09/07 - 21:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	34.850	28.869	15.950	-11.131	40.000	12.919	QP
2			82.840	24.492	14.650	-15.508	40.000	9.842	QP
3			167.250	25.517	15.260	-17.983	43.500	10.257	QP
4			222.060	27.811	14.950	-18.189	46.000	12.861	QP
5			500.935	24.741	6.150	-21.259	46.000	18.591	QP
6			848.190	26.042	2.160	-19.958	46.000	23.882	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Model No.: APEX0377

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/13
Test Mode:	BLE	Test Channel:	00
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4808.0	36.9	3.7	40.6	74.0	-33.4	Peak	Horizontal
	5411.5	33.7	4.0	37.7	74.0	-36.3	Peak	Horizontal
*	7239.0	32.3	12.2	44.5	75.4	-30.9	Peak	Horizontal
*	8701.0	30.3	13.8	44.1	75.4	-31.3	Peak	Horizontal
	7434.5	29.5	12.7	42.2	74.0	-31.8	Peak	Vertical
	8310.0	31.0	11.9	42.9	74.0	-31.1	Peak	Vertical
*	9899.5	29.3	15.4	44.7	75.4	-30.7	Peak	Vertical
*	12891.5	26.1	19.4	45.5	75.4	-29.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.4dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	BLE	Test Channel:	19
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7298.5	31.0	12.3	43.3	74.0	-30.7	Peak	Horizontal
	8378.0	30.3	12.1	42.4	74.0	-31.6	Peak	Horizontal
*	9865.5	27.6	16.0	43.6	76.3	-32.7	Peak	Horizontal
*	12721.5	26.7	18.8	45.5	76.3	-30.8	Peak	Horizontal
	4876.0	36.4	3.7	40.1	74.0	-33.9	Peak	Vertical
	7264.5	30.9	12.3	43.2	74.0	-30.8	Peak	Vertical
*	8888.0	27.6	14.0	41.6	76.3	-34.7	Peak	Vertical
*	10222.5	27.2	16.3	43.5	76.3	-32.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.3dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	ACCESS POINT	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	56%
Test Site	AC1	Test Date	2017/09/02
Test Mode:	BLE	Test Channel:	39
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4961.0	36.3	3.7	40.0	74.0	-34.0	Peak	Horizontal
	5428.5	32.9	4.1	37.0	74.0	-37.0	Peak	Horizontal
*	7052.0	29.3	11.0	40.3	77.1	-36.8	Peak	Horizontal
*	8692.5	28.8	13.7	42.5	77.1	-34.6	Peak	Horizontal
	4961.0	38.0	3.7	41.7	74.0	-32.3	Peak	Vertical
	5411.5	33.2	4.0	37.2	74.0	-36.8	Peak	Vertical
*	6737.5	29.7	8.8	38.5	77.1	-38.6	Peak	Vertical
*	8616.0	28.7	13.5	42.2	77.1	-34.9	Peak	Vertical

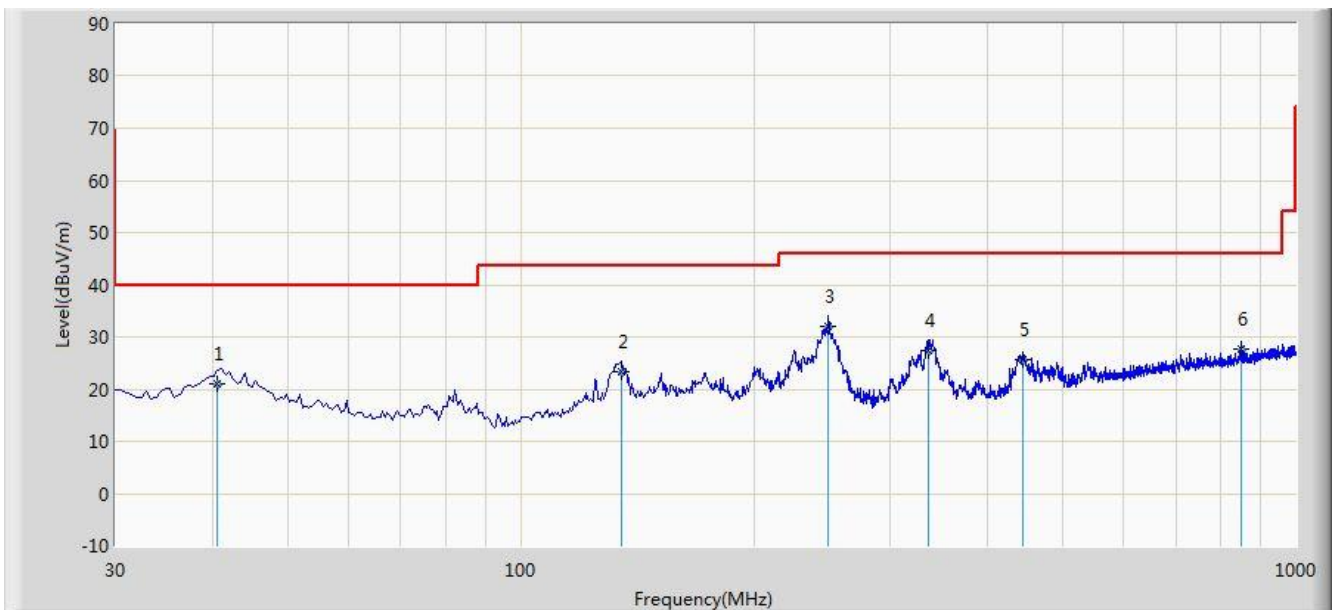
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.1dBμV/m) or 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2017/09/07 - 23:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT - APEX0377	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



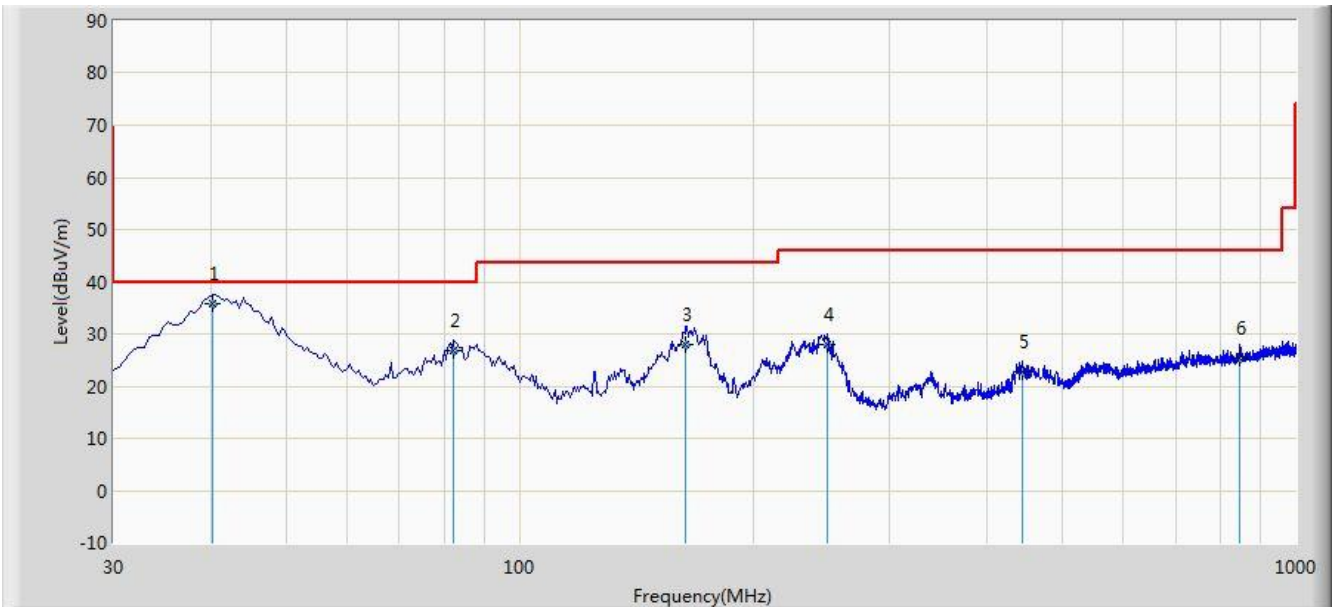
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			40.670	21.152	7.150	-18.848	40.000	14.002	QP
2			134.760	23.476	13.650	-20.024	43.500	9.826	QP
3		*	249.705	31.998	18.160	-14.002	46.000	13.838	QP
4			335.065	27.517	11.790	-18.483	46.000	15.727	QP
5			444.675	25.663	8.100	-20.337	46.000	17.563	QP
6			849.165	27.547	3.650	-18.453	46.000	23.897	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2017/09/07 - 23:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: VULB9168_20-2000MHz	Polarity: Vertical
EUT: ACCESS POINT - APEX0377	Power: AC 120V/60Hz
Worse Case Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	40.185	35.859	21.950	-4.141	40.000	13.909	QP
2			82.380	26.827	17.050	-13.173	40.000	9.777	QP
3			163.950	28.065	17.950	-15.435	43.500	10.115	QP
4			249.700	27.898	14.060	-18.102	46.000	13.838	QP
5			443.705	22.609	5.060	-23.391	46.000	17.549	QP
6			845.285	25.488	1.650	-20.512	46.000	23.838	QP

Note 1: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42-16.423	399.9 - 410	4.5-5.15
¹ 0.495 - 0.505	16.69475-16.69525	608 - 614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960 - 1240	7.25-7.75
4.125-4.128	25.5 -25.67	1300 - 1427	8.25 - 8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660 - 1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123 - 138	2200 - 2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.525	2483.5 - 2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690 - 2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260 - 3267	23.6-24.0
12.29-12.293	167.72-173.2	3332 - 3339	31.2-31.8
12.51975-12.52025	240 - 285	3345.8 - 3358	36.43-36.5
12.57675-12.57725	322-335.4	3600 - 4400	(²)
13.36-13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

7.7.3. Test Setting

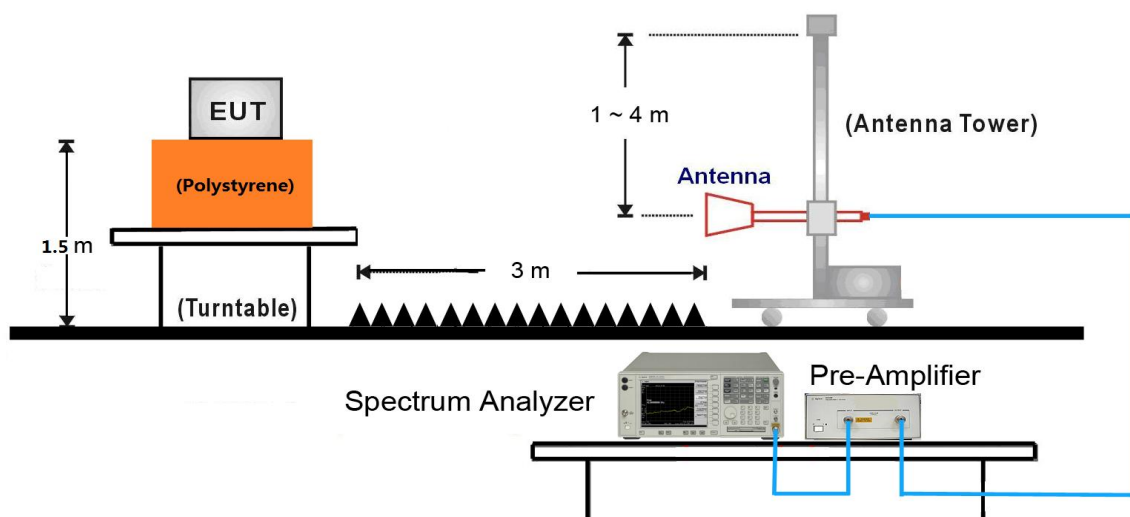
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

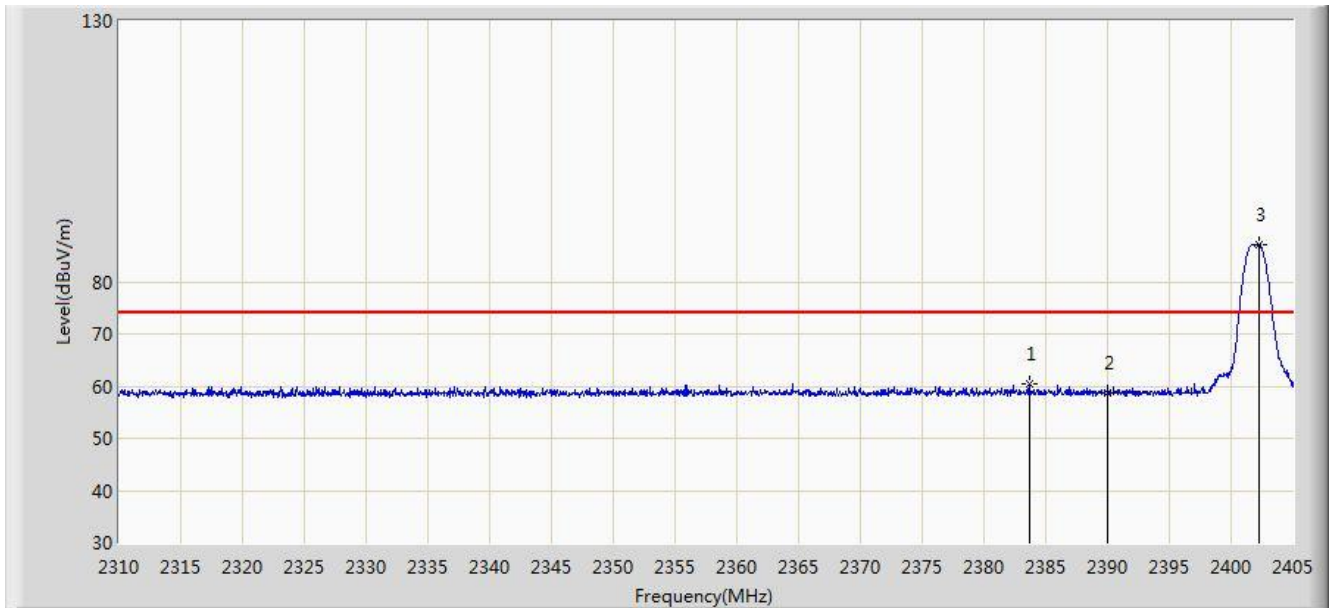
7.7.4. Test Setup



7.7.5. Test Result

Model No.: APEX0374

Site: AC1	Time: 2017/09/13 - 04:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

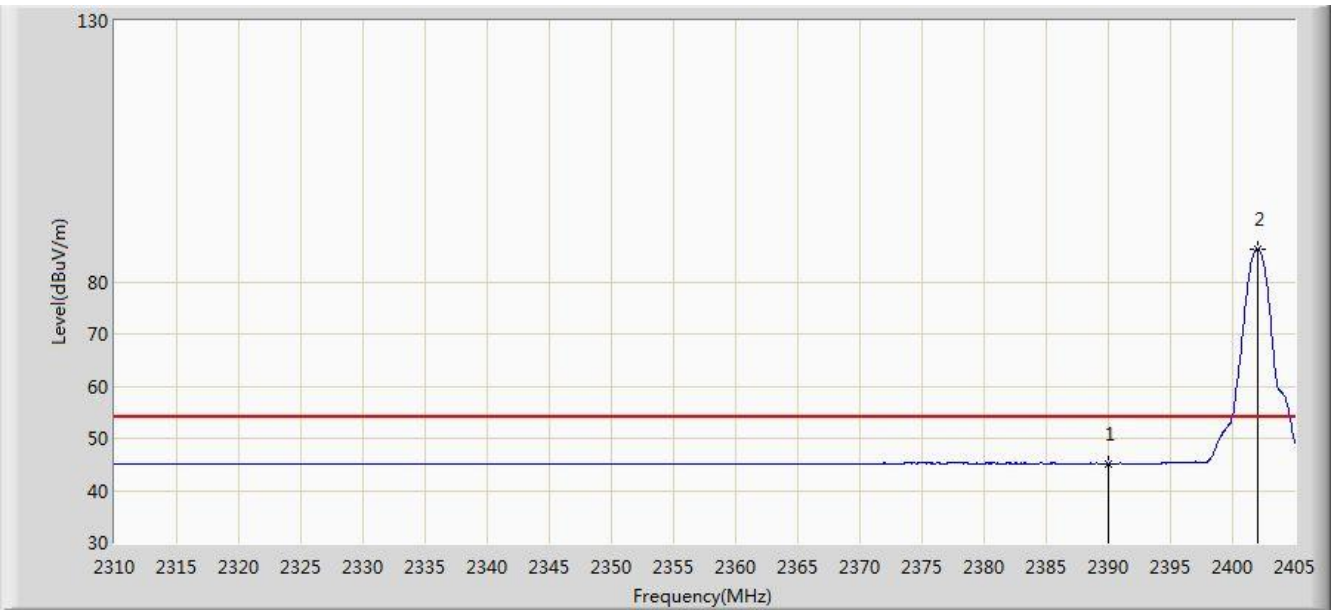


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.958	59.720	27.157	-14.280	74.000	32.563	PK
2			2390.000	57.473	24.919	-16.527	74.000	32.554	PK
3		*	2402.245	95.647	63.109	N/A	N/A	32.539	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 04:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

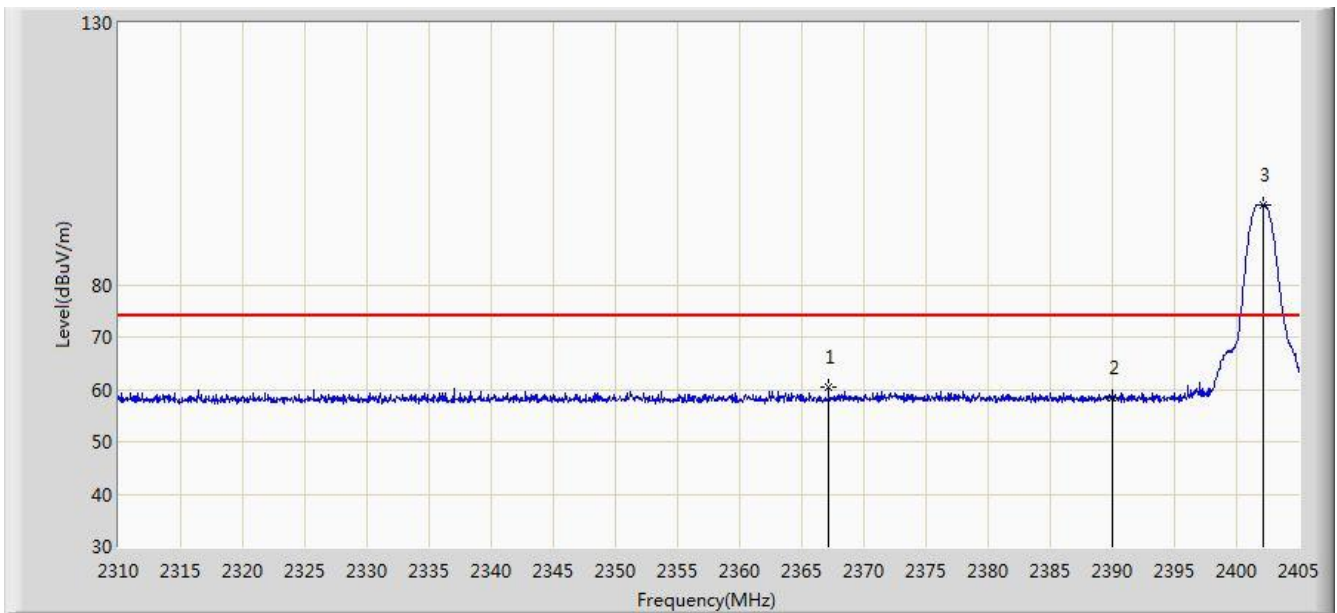


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.180	12.626	-8.820	54.000	32.554	AV
2		*	2402.008	86.319	53.780	N/A	N/A	32.538	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 04:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

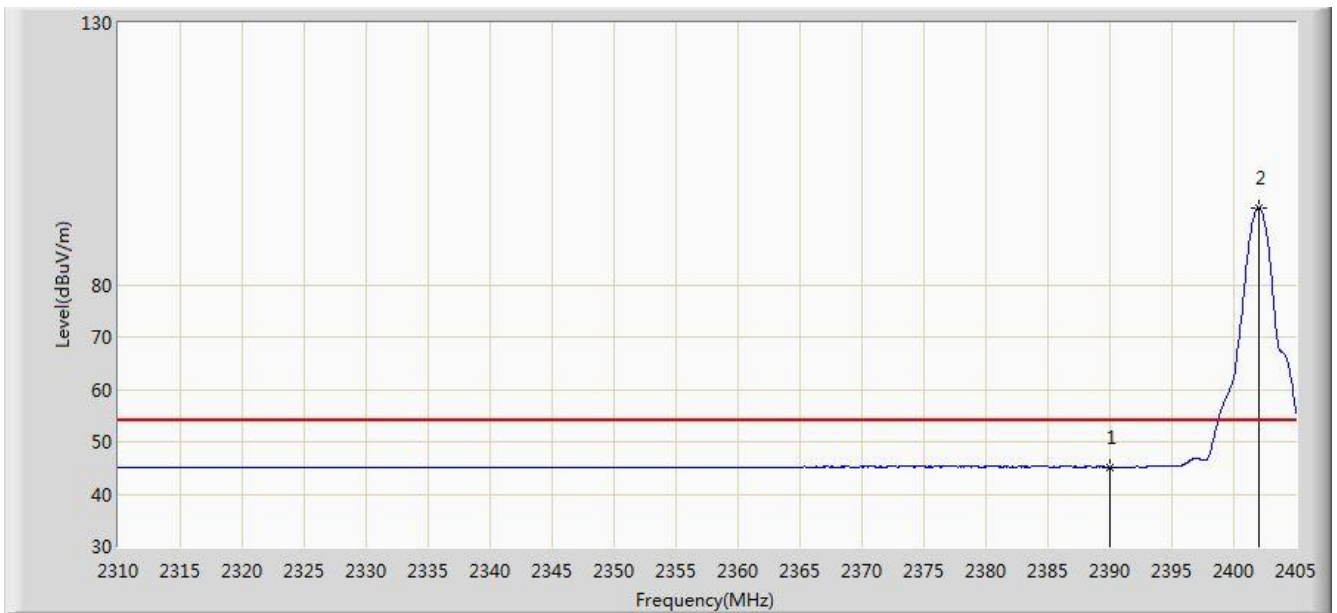


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2367.143	60.565	27.979	-13.435	74.000	32.587	PK
2			2390.000	58.446	25.892	-15.554	74.000	32.554	PK
3		*	2402.150	95.243	62.705	N/A	N/A	32.538	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 05:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

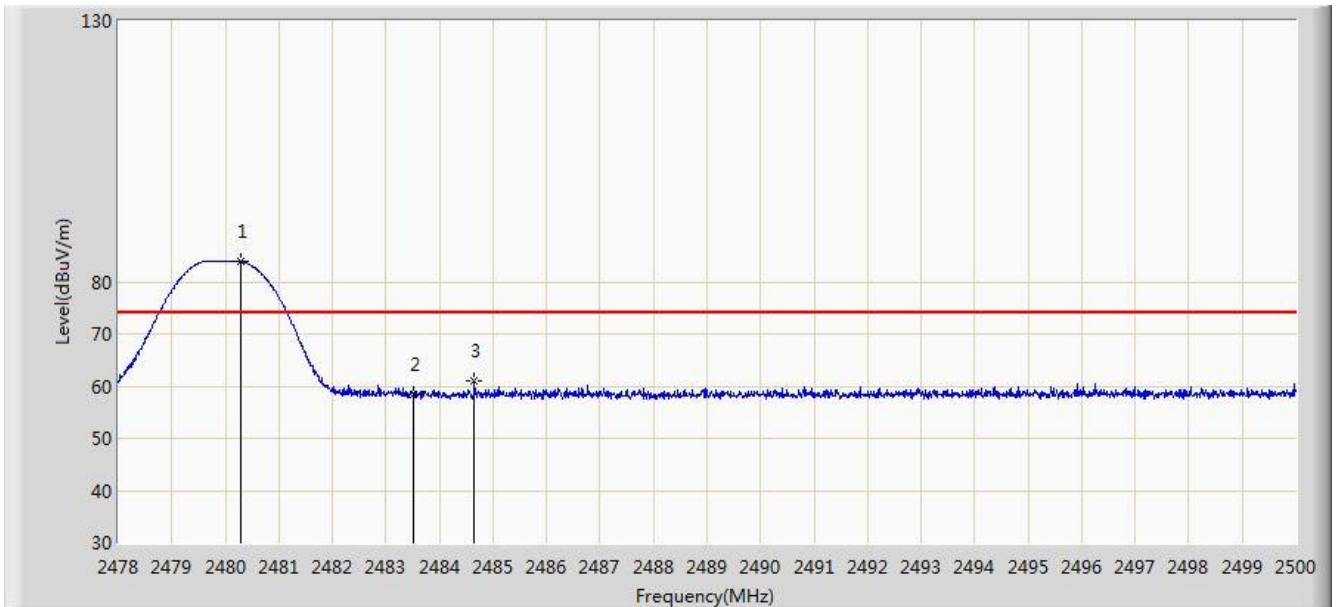


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.194	12.640	-8.806	54.000	32.554	AV
2		*	2402.008	94.582	62.043	N/A	N/A	32.538	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 05:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

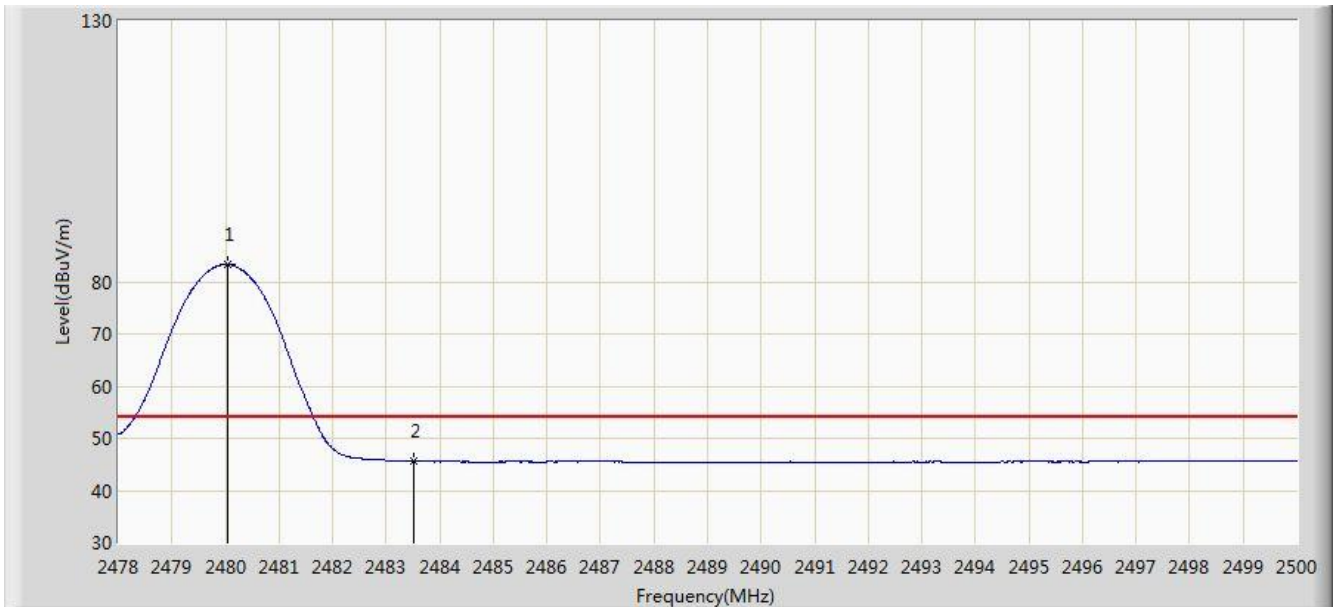


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.277	83.908	51.337	N/A	N/A	32.570	PK
2			2483.500	58.346	25.765	-15.654	74.000	32.580	PK
3			2484.655	60.991	28.407	-13.009	74.000	32.584	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 05:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

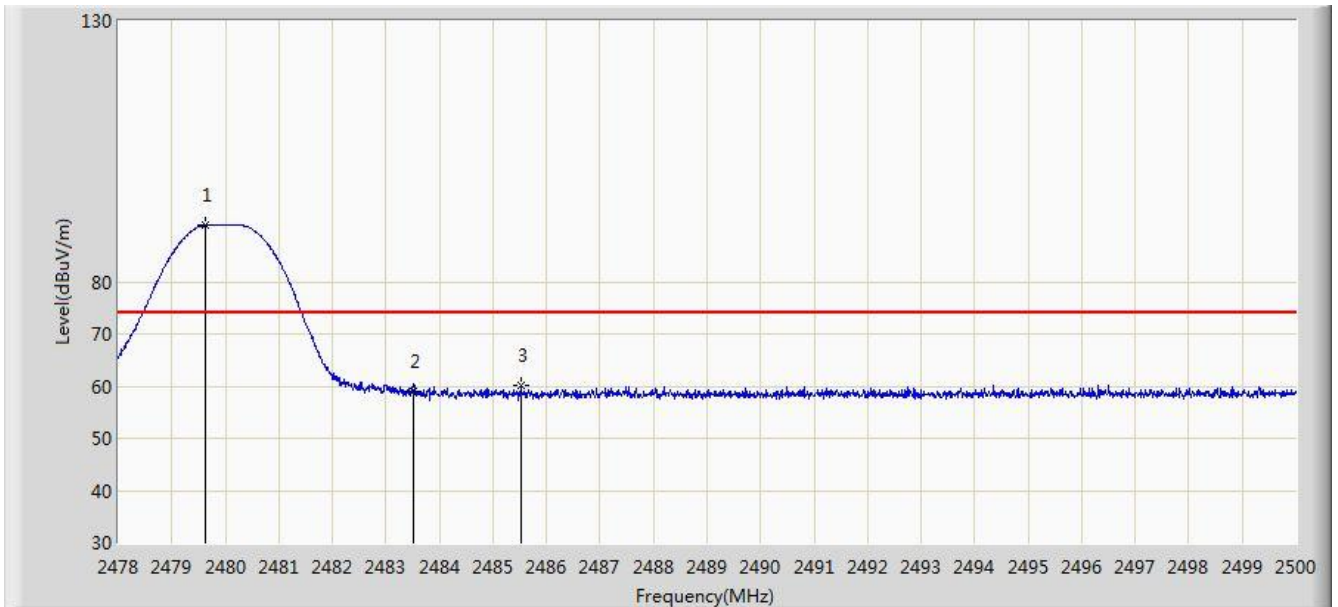


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.046	83.270	50.700	N/A	N/A	32.570	AV
2			2483.500	45.578	12.997	-8.422	54.000	32.580	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 05:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.628	90.914	58.345	N/A	N/A	32.569	PK
2			2483.500	59.004	26.423	-14.996	74.000	32.580	PK
3			2485.513	60.020	27.433	-13.980	74.000	32.587	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 05:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	



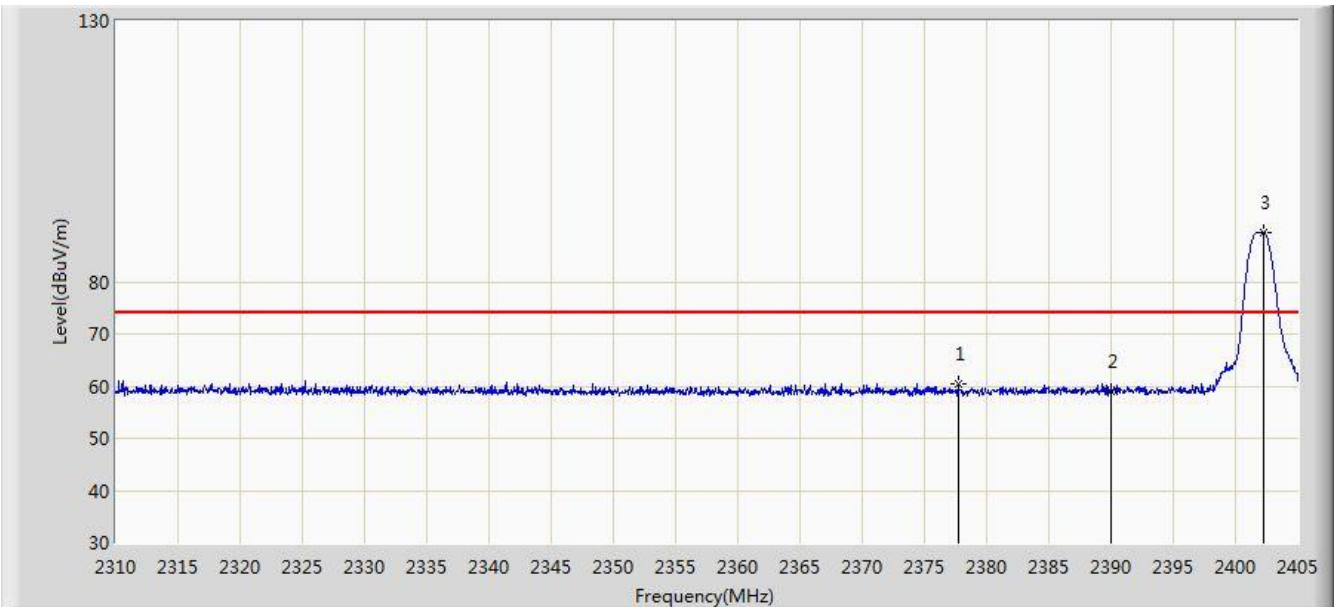
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.046	90.423	57.853	N/A	N/A	32.570	AV
2			2483.500	46.081	13.500	-7.919	54.000	32.580	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Model No.: APEX0375

Site: AC1	Time: 2017/11/15 - 20:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

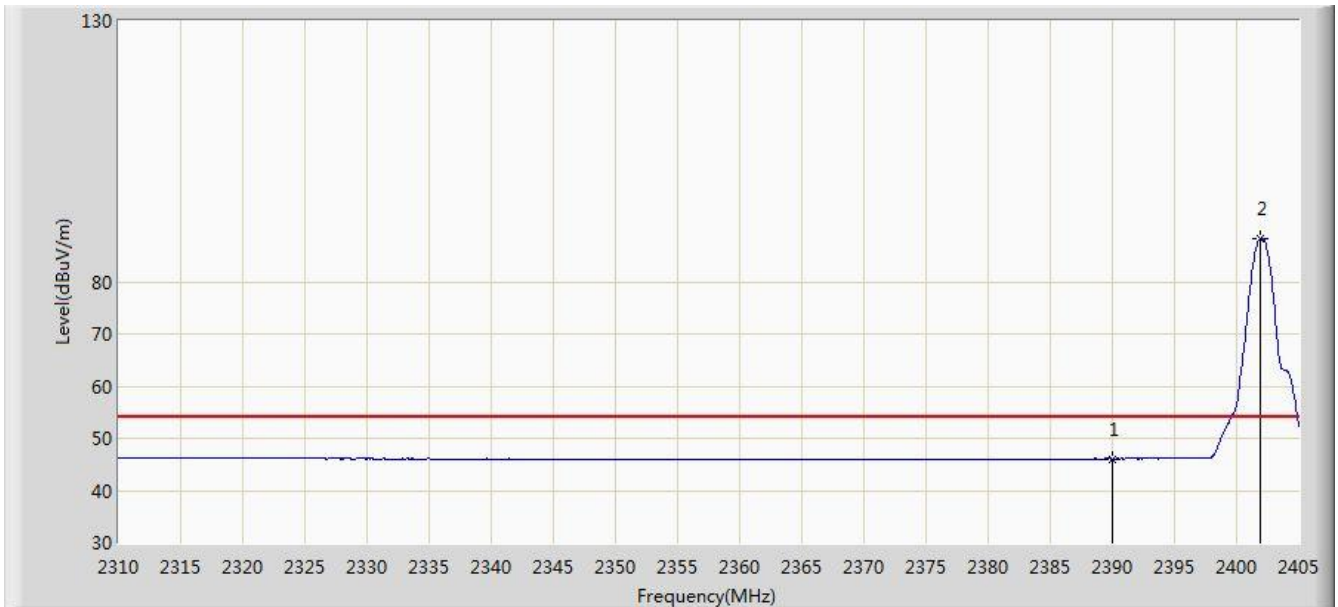


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2377.687	60.360	28.151	-13.640	74.000	32.210	PK
2			2390.000	59.005	26.727	-14.995	74.000	32.278	PK
3		*	2402.292	89.481	57.208	N/A	N/A	32.273	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

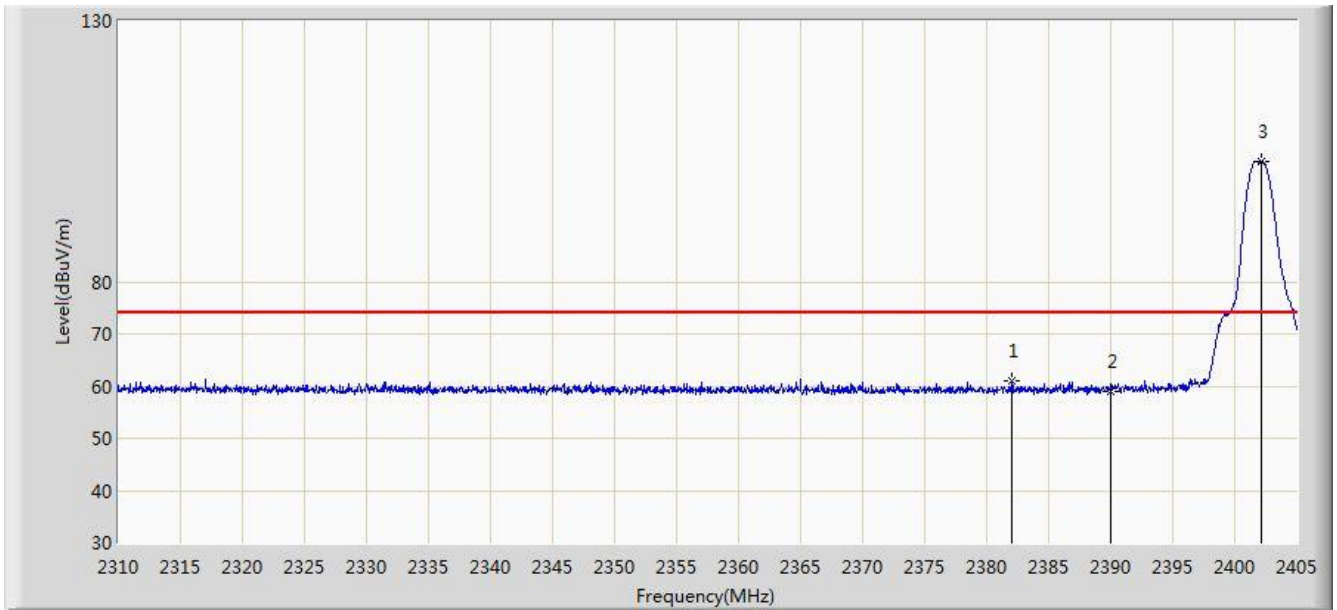


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.073	13.795	-7.927	54.000	32.278	AV
2		*	2401.913	88.340	56.066	N/A	N/A	32.274	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

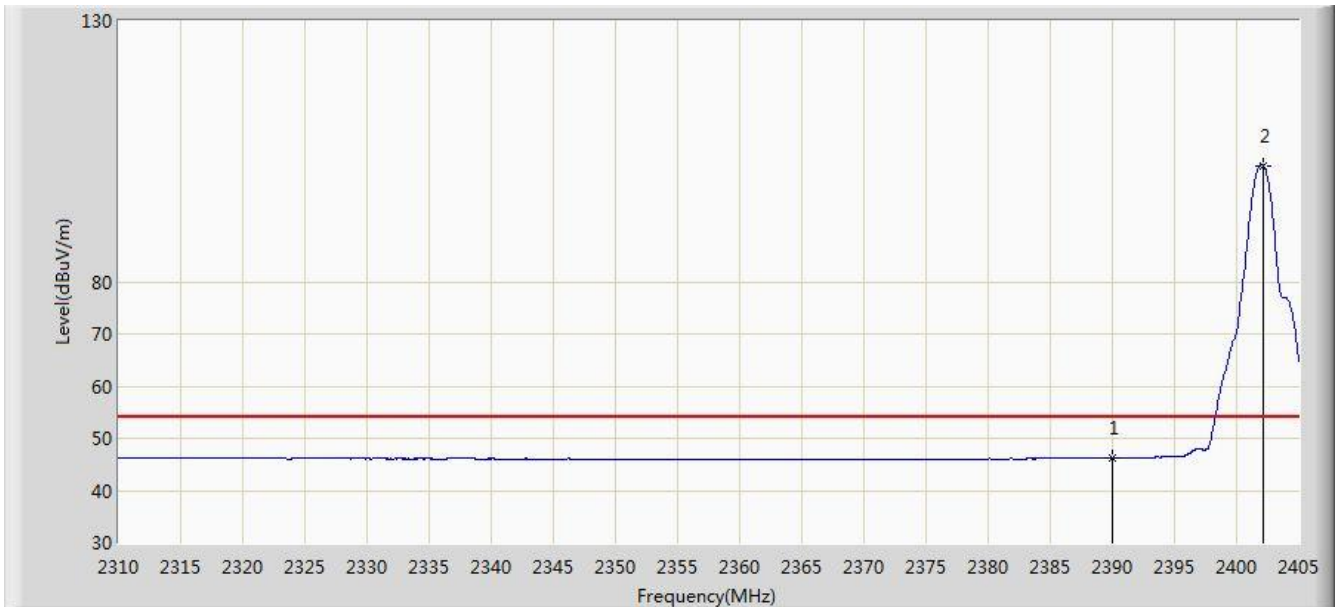


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2382.058	61.089	28.855	-12.911	74.000	32.233	PK
2			2390.000	58.944	26.666	-15.056	74.000	32.278	PK
3		*	2402.198	102.989	70.716	N/A	N/A	32.273	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

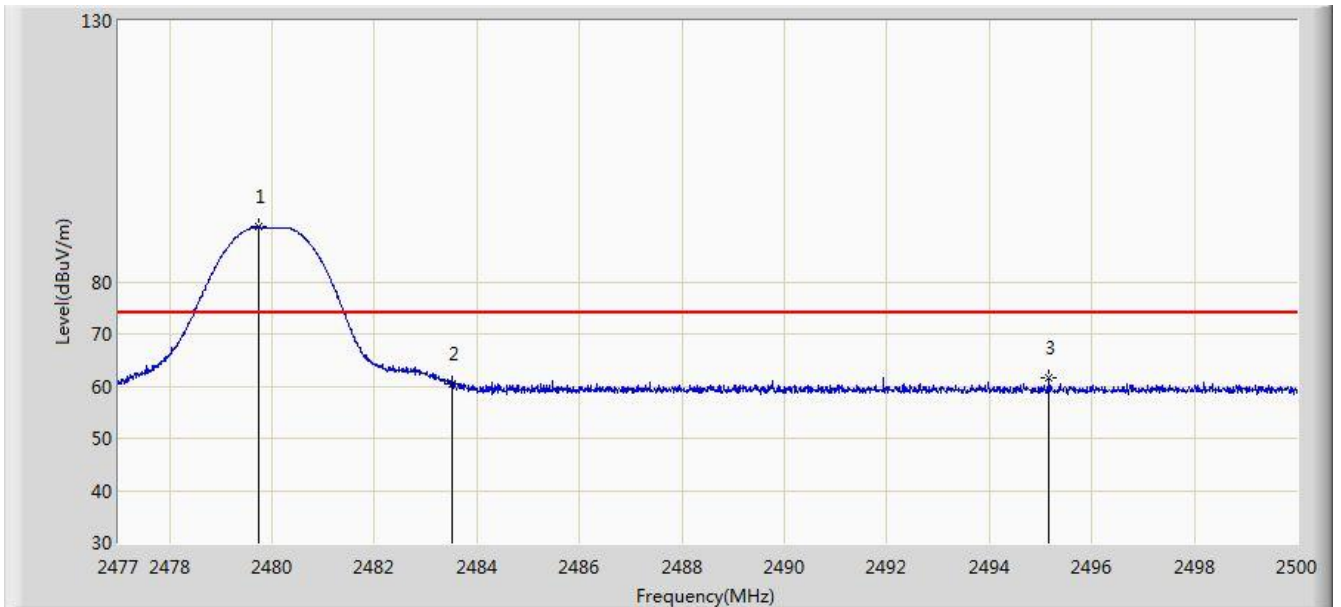


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.225	13.947	-7.775	54.000	32.278	AV
2		*	2402.150	102.316	70.043	N/A	N/A	32.273	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

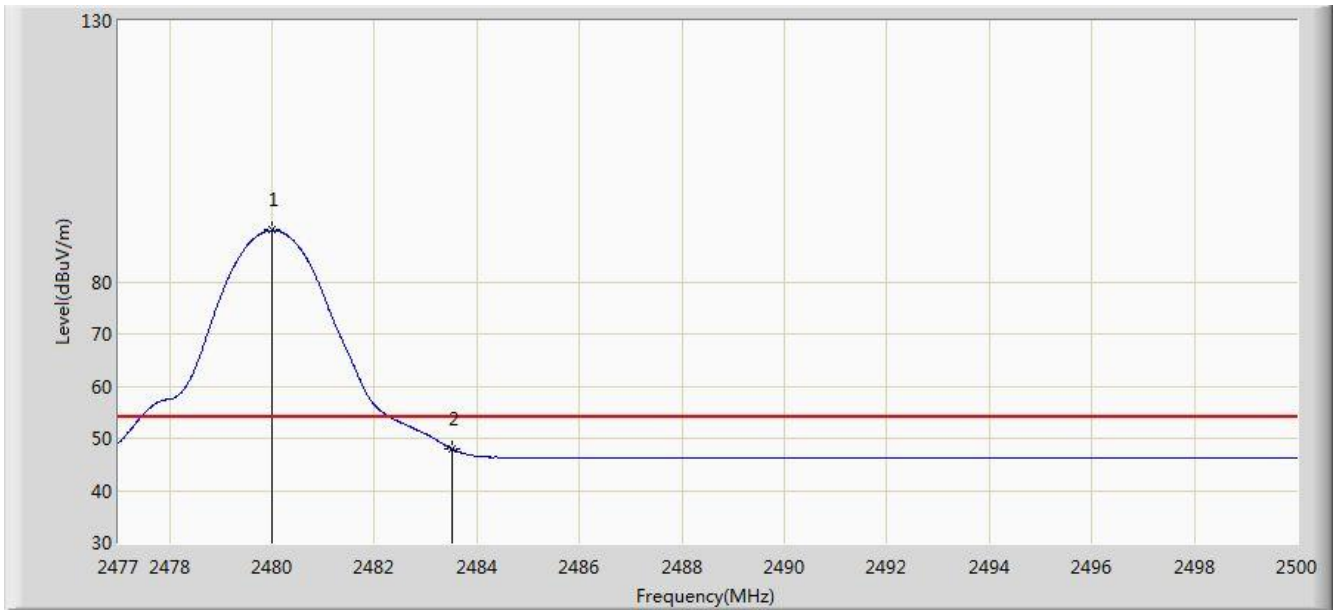


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.726	90.446	58.178	N/A	N/A	32.268	PK
2			2483.500	60.311	28.030	-13.689	74.000	32.282	PK
3			2495.170	61.735	29.413	-12.265	74.000	32.322	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

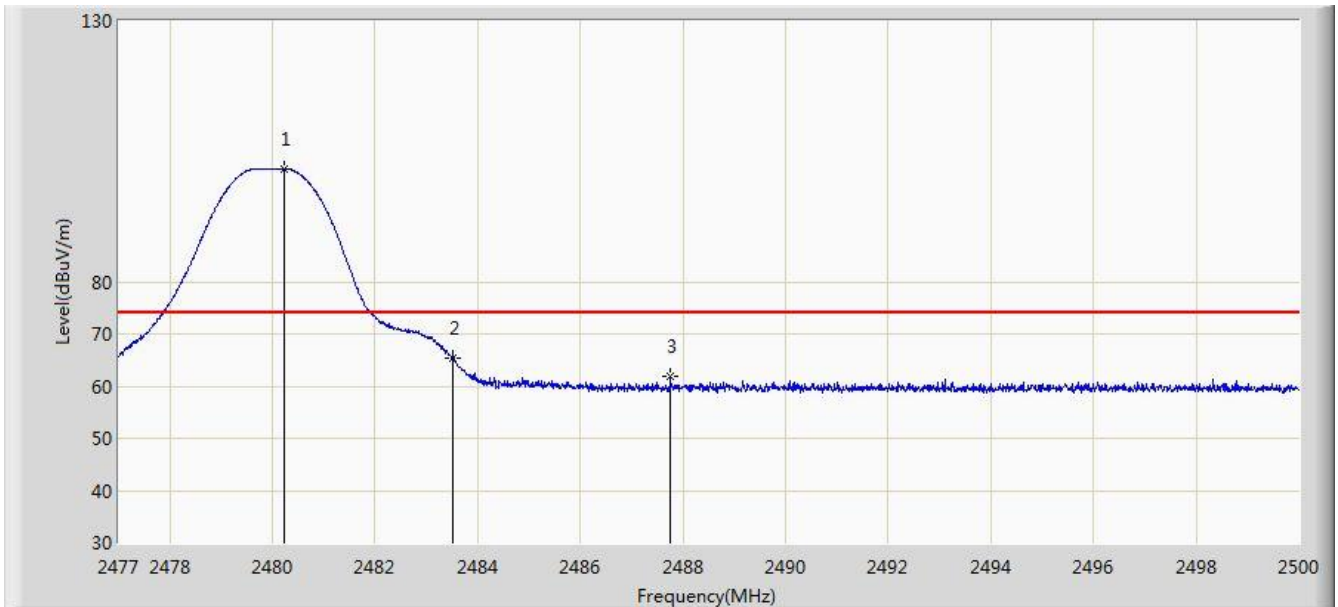


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.001	89.859	57.590	N/A	N/A	32.269	AV
2			2483.500	48.001	15.720	-5.999	54.000	32.282	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

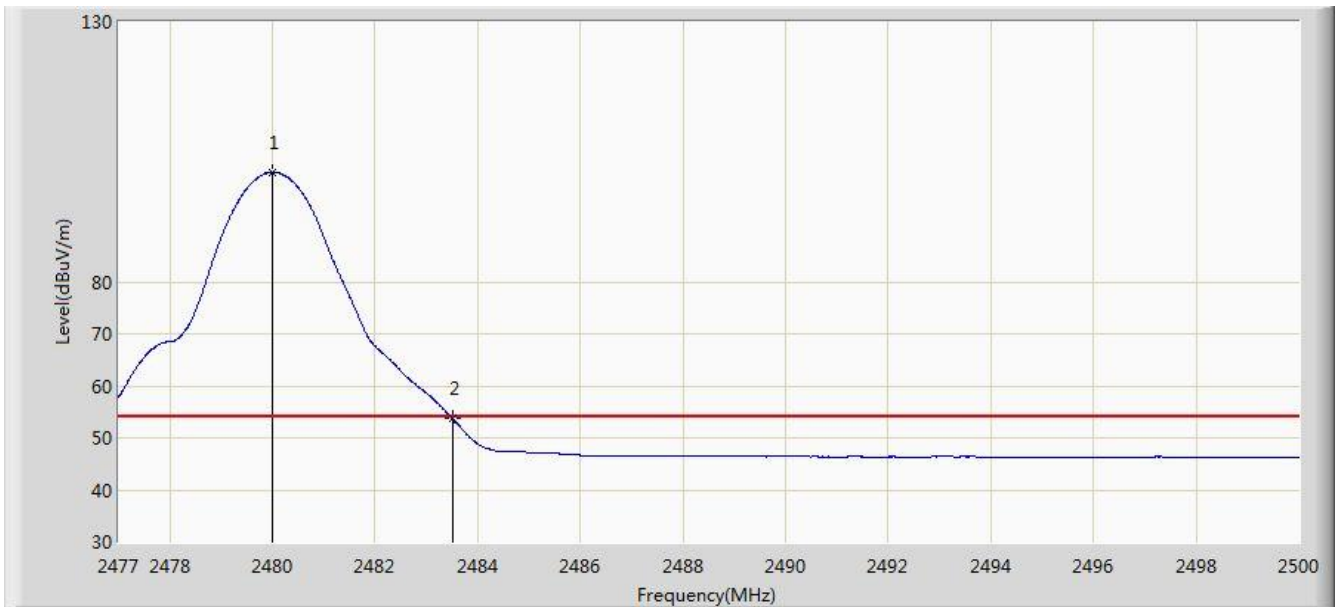


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.231	101.675	69.405	N/A	N/A	32.270	PK
2			2483.500	65.371	33.090	-8.629	74.000	32.282	PK
3			2487.752	62.024	29.728	-11.976	74.000	32.296	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/11/15 - 20:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	



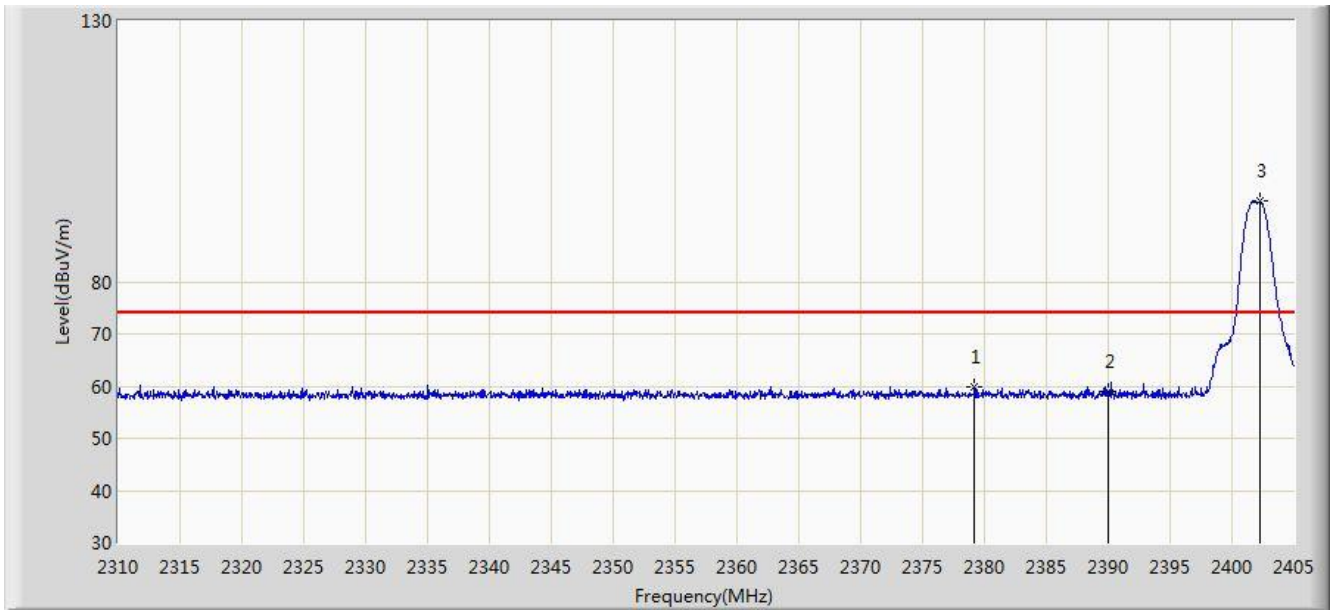
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.990	101.044	68.775	N/A	N/A	32.269	AV
2			2483.500	53.499	21.217	-0.501	54.000	32.282	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Model No.: APEX0377

Site: AC1	Time: 2017/09/13 - 02:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

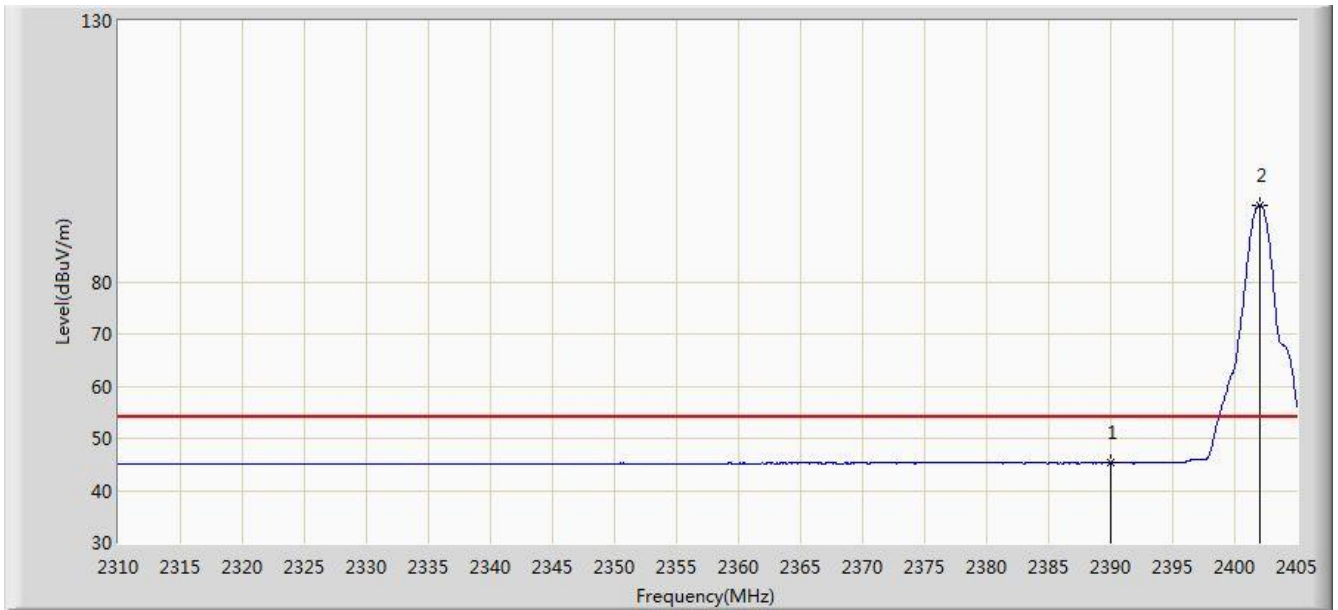


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.208	59.719	27.150	-14.281	74.000	32.569	PK
2			2390.000	58.876	26.322	-15.124	74.000	32.554	PK
3		*	2402.245	95.375	62.837	N/A	N/A	32.539	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

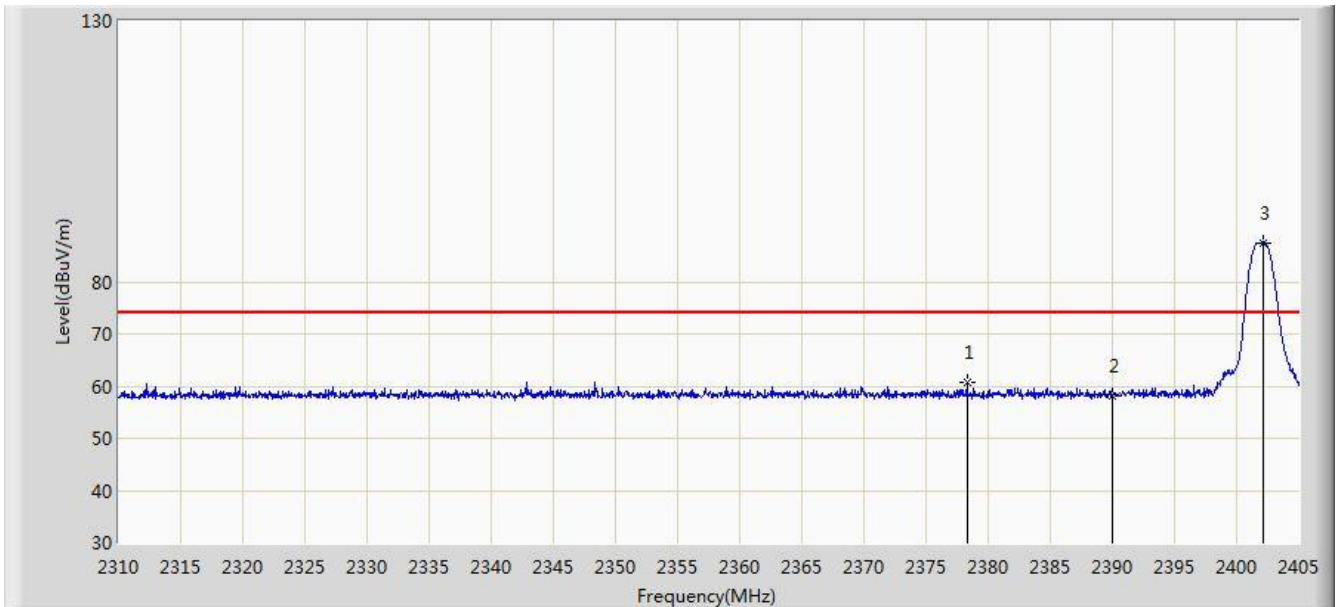


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.271	12.717	-8.729	54.000	32.554	AV
2		*	2402.008	94.782	62.243	N/A	N/A	32.538	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

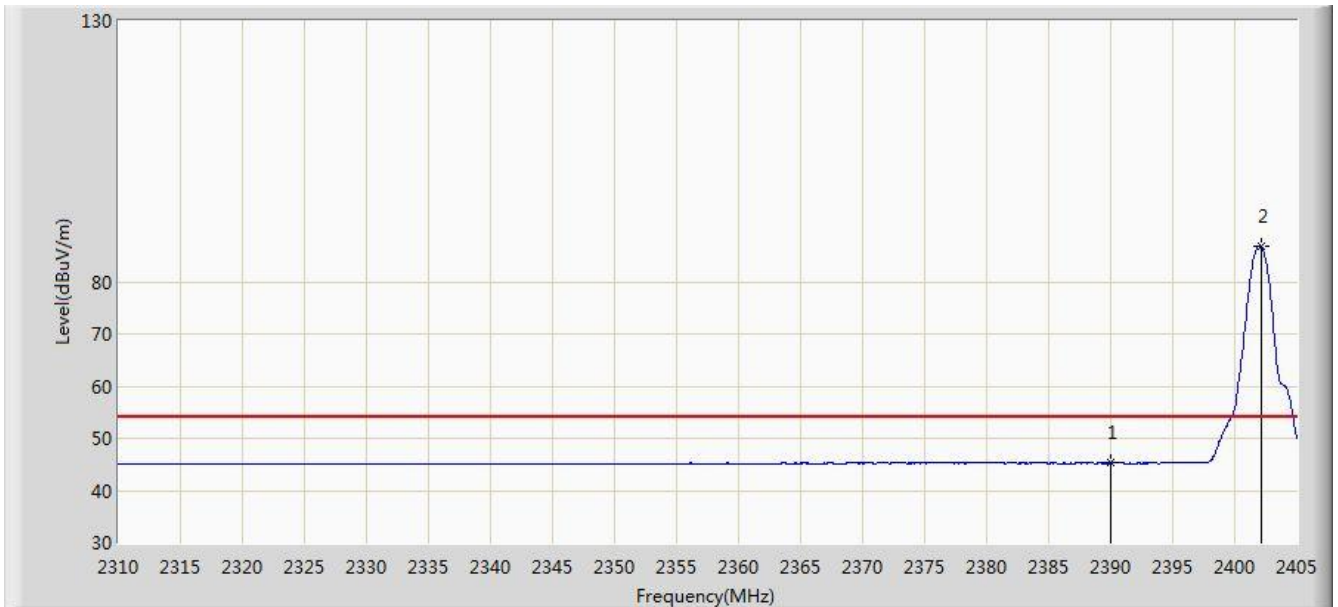


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2378.305	60.665	28.095	-13.335	74.000	32.571	PK
2			2390.000	58.151	25.597	-15.849	74.000	32.554	PK
3		*	2402.150	87.511	54.973	N/A	N/A	32.538	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2402MHz	

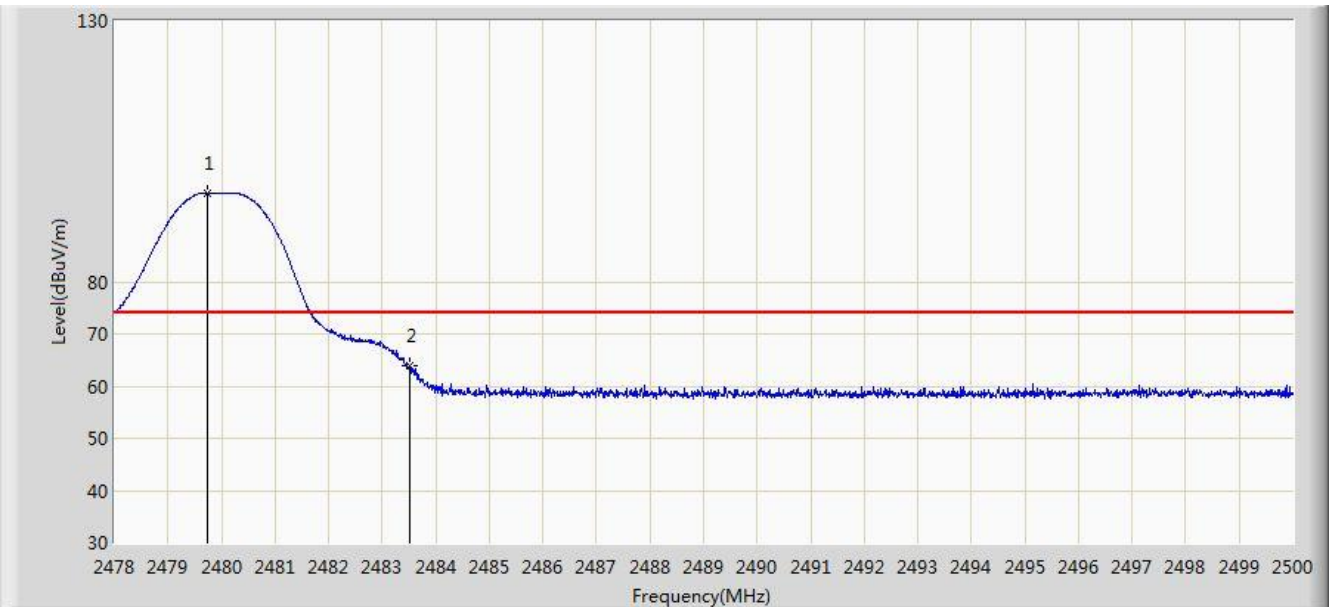


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.220	12.666	-8.780	54.000	32.554	AV
2		*	2402.150	86.730	54.192	N/A	N/A	32.538	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

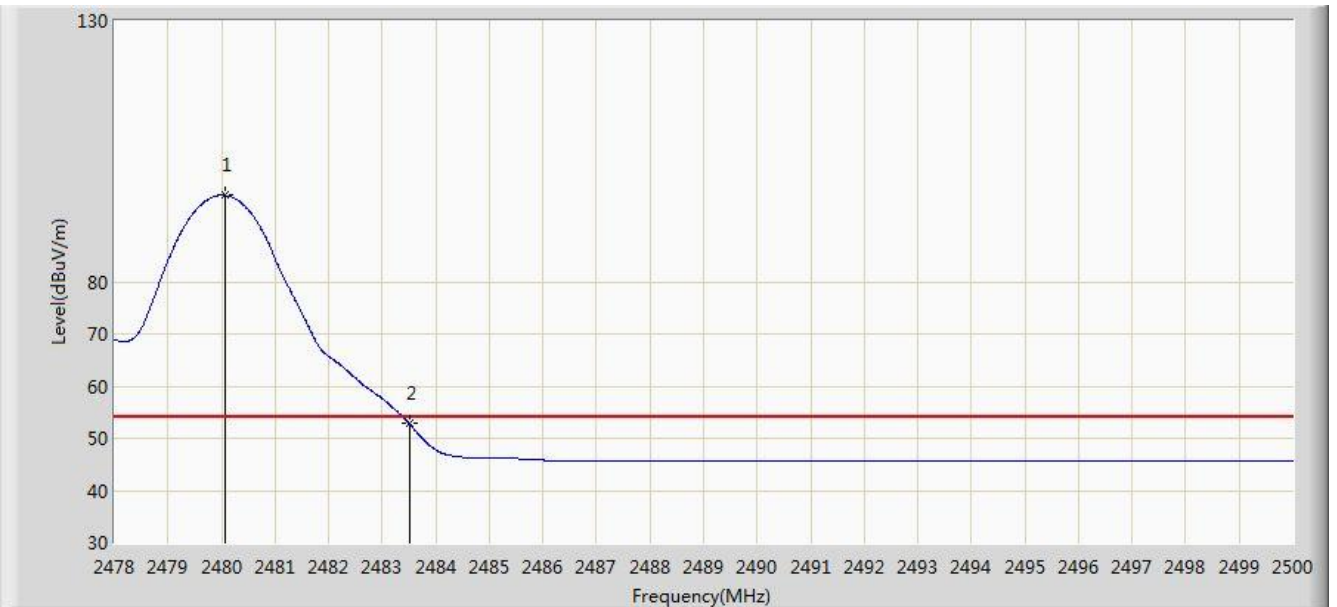


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.738	97.099	64.530	N/A	N/A	32.569	PK
2			2483.500	63.782	31.201	-10.218	74.000	32.580	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

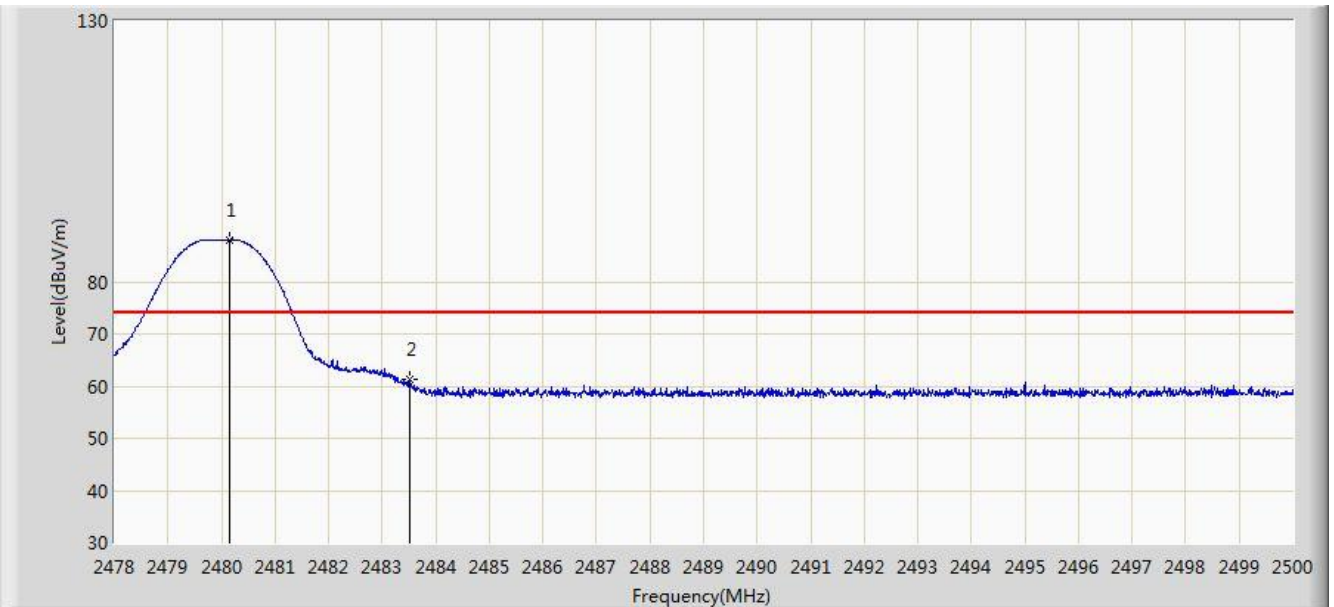


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.079	96.539	63.969	N/A	N/A	32.570	AV
2			2483.500	52.788	20.207	-1.212	54.000	32.580	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	

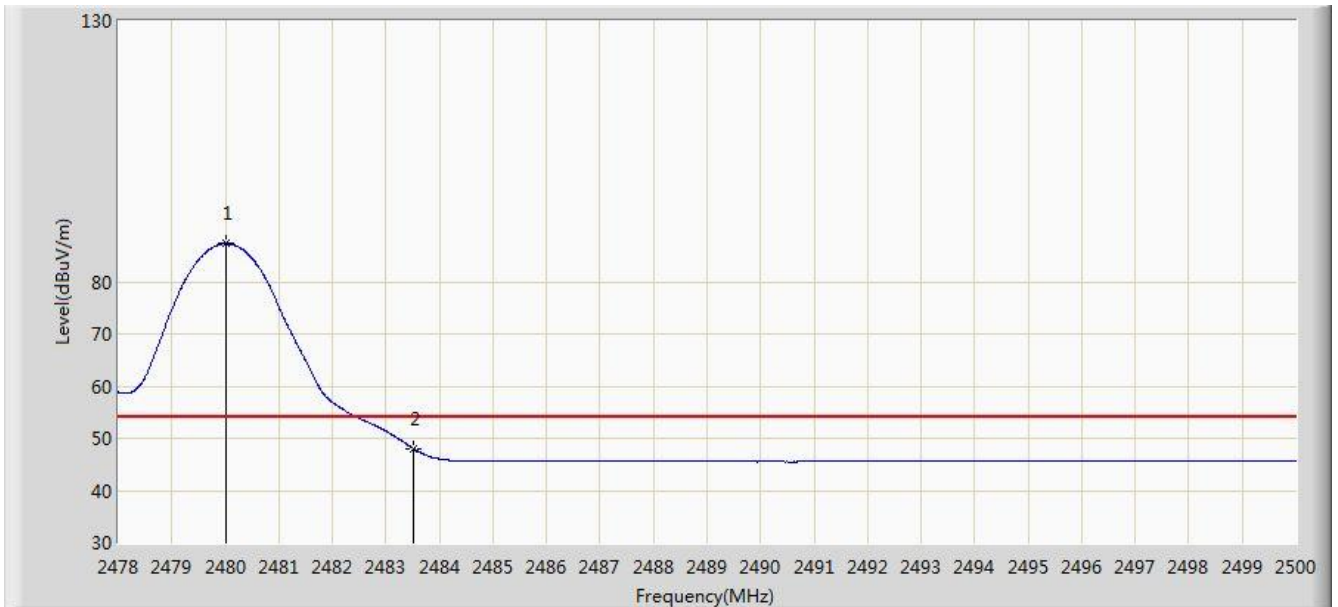


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.145	88.098	55.528	N/A	N/A	32.570	PK
2			2483.500	61.299	28.718	-12.701	74.000	32.580	PK

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2017/09/13 - 02:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: POE (DC 57V)
Test Mode: Transmit by BLE at Channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.002	87.295	54.725	N/A	N/A	32.570	AV
2			2483.500	48.081	15.500	-5.919	54.000	32.580	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

7.8. AC Conducted Emissions Measurement

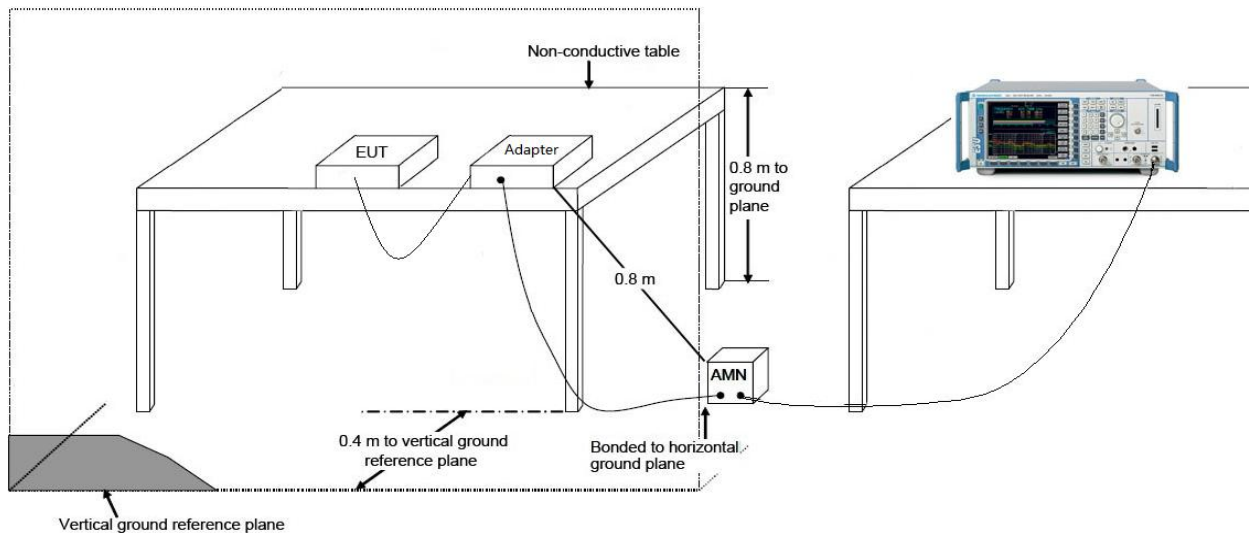
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

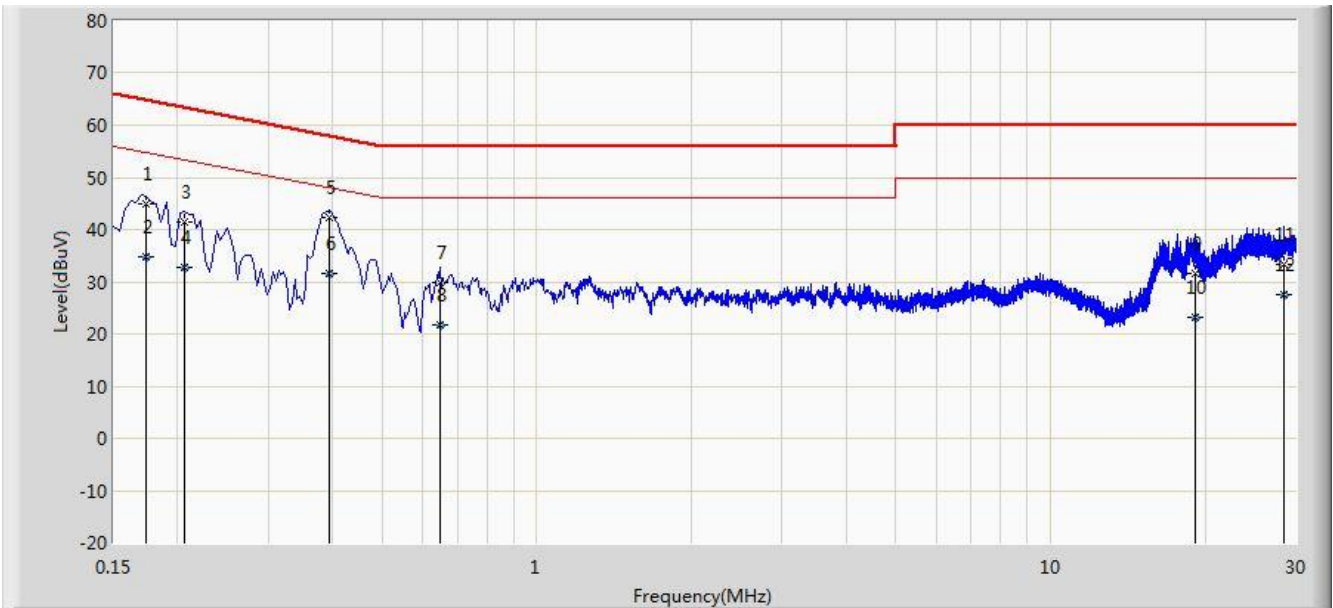
7.8.2. Test Setup



7.8.3. Test Result

Model No.: APEX0374

Site: SR2	Time: 2017/09/13 - 16:06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	

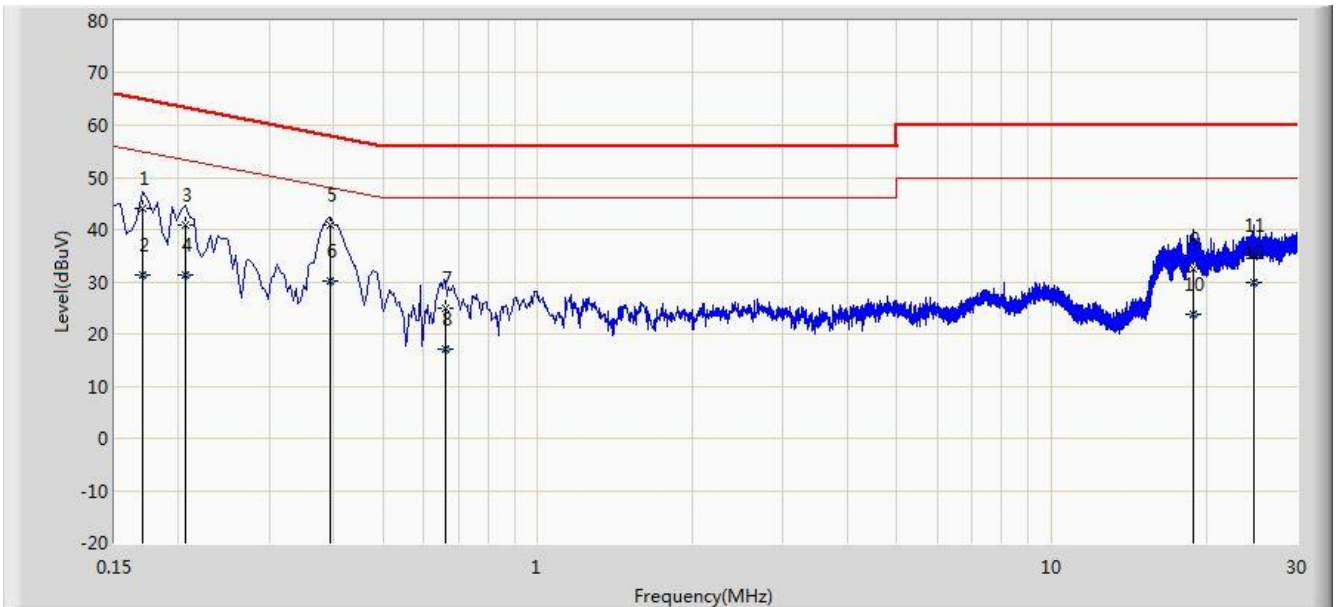


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.174	44.790	34.722	-19.977	64.767	10.068	QP
2			0.174	34.846	24.778	-19.921	54.767	10.068	AV
3			0.206	41.468	31.487	-21.897	63.365	9.981	QP
4			0.206	32.851	22.870	-20.514	53.365	9.981	AV
5		*	0.394	42.271	32.190	-15.708	57.979	10.080	QP
6			0.394	31.693	21.613	-16.286	47.979	10.080	AV
7			0.650	29.903	19.815	-26.097	56.000	10.089	QP
8			0.650	21.673	11.584	-24.327	46.000	10.089	AV
9			19.114	31.652	21.535	-28.348	60.000	10.117	QP
10			19.114	23.259	13.142	-26.741	50.000	10.117	AV
11			28.478	33.357	23.093	-26.643	60.000	10.264	QP
12			28.478	27.524	17.260	-22.476	50.000	10.264	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2017/09/13 - 16:10
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	



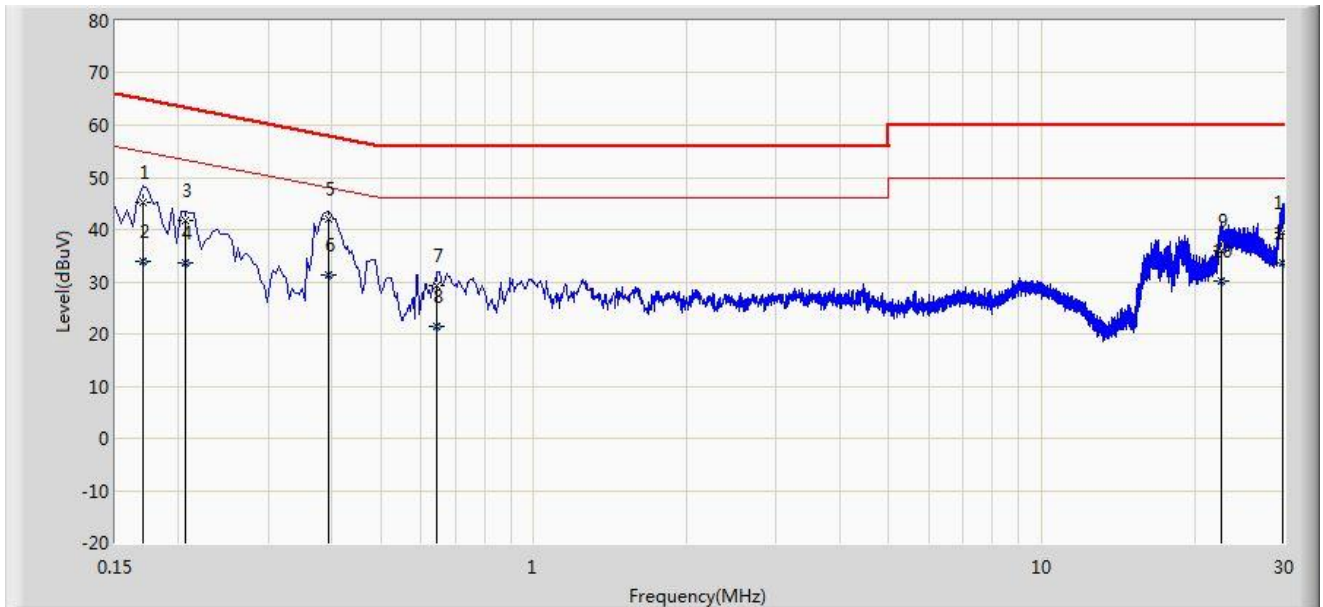
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.170	44.003	33.940	-20.957	64.960	10.064	QP
2			0.170	31.406	21.342	-23.555	54.960	10.064	AV
3			0.206	40.772	30.770	-22.593	63.365	10.001	QP
4			0.206	31.389	21.388	-21.976	53.365	10.001	AV
5		*	0.394	40.857	30.749	-17.122	57.979	10.108	QP
6			0.394	30.268	20.160	-17.711	47.979	10.108	AV
7			0.662	25.066	14.969	-30.934	56.000	10.096	QP
8			0.662	17.180	7.083	-28.820	46.000	10.096	AV
9			18.918	32.398	22.246	-27.602	60.000	10.152	QP
10			18.918	23.657	13.505	-26.343	50.000	10.152	AV
11			24.678	35.102	24.804	-24.898	60.000	10.299	QP
12			24.678	29.784	19.485	-20.216	50.000	10.299	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Model No.: APEX0375

Site: SR2	Time: 2017/09/13 - 15:01
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	

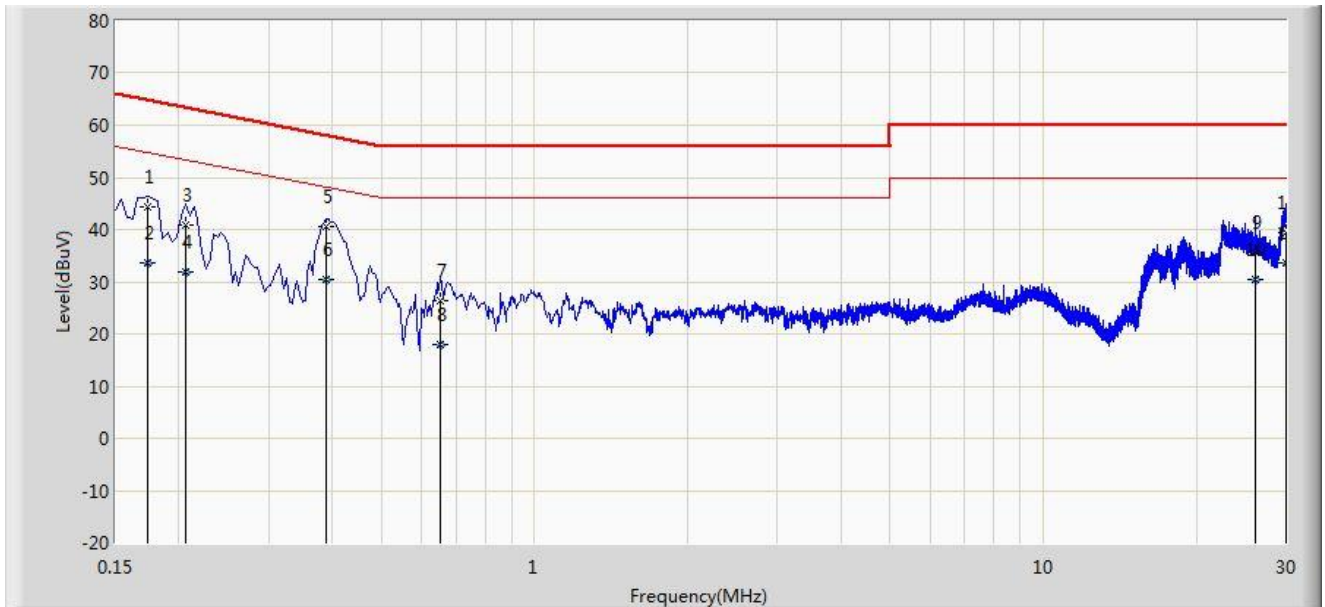


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.170	45.108	35.031	-19.852	64.960	10.078	QP
2			0.170	33.967	23.889	-20.994	54.960	10.078	AV
3			0.206	41.605	31.625	-21.760	63.365	9.981	QP
4			0.206	33.595	23.614	-19.770	53.365	9.981	AV
5		*	0.394	42.167	32.087	-15.812	57.979	10.080	QP
6			0.394	31.302	21.221	-16.677	47.979	10.080	AV
7			0.646	29.244	19.153	-26.756	56.000	10.091	QP
8			0.646	21.544	11.453	-24.456	46.000	10.091	AV
9			22.566	35.994	25.820	-24.006	60.000	10.174	QP
10			22.566	30.240	20.066	-19.760	50.000	10.174	AV
11			29.886	39.407	29.135	-20.593	60.000	10.272	QP
12			29.886	33.675	23.403	-16.325	50.000	10.272	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2017/09/13 - 15:05
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	



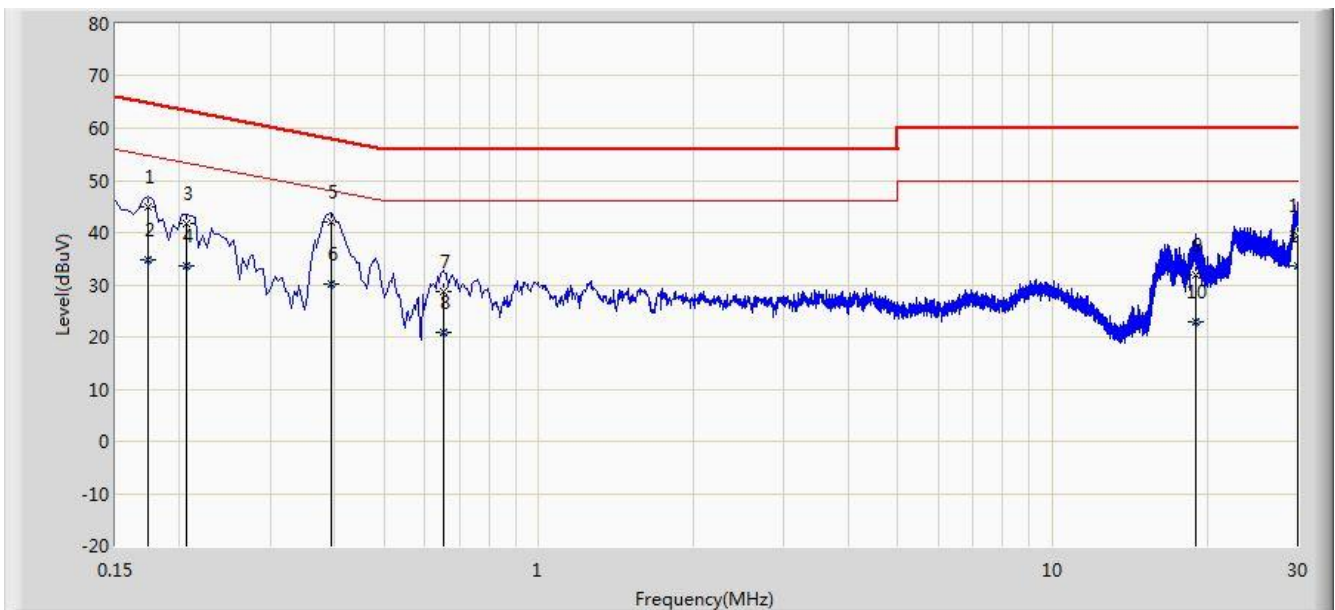
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.174	44.394	34.337	-20.374	64.767	10.057	QP
2			0.174	33.571	23.514	-21.196	54.767	10.057	AV
3			0.206	40.783	30.782	-22.582	63.365	10.001	QP
4			0.206	31.961	21.960	-21.404	53.365	10.001	AV
5			0.390	40.471	30.367	-17.592	58.064	10.105	QP
6			0.390	30.475	20.370	-17.589	48.064	10.105	AV
7			0.654	26.491	16.390	-29.509	56.000	10.101	QP
8			0.654	18.001	7.900	-27.999	46.000	10.101	AV
9			26.174	35.616	25.277	-24.384	60.000	10.339	QP
10			26.174	30.290	19.951	-19.710	50.000	10.339	AV
11			29.966	39.377	28.937	-20.623	60.000	10.440	QP
12		*	29.966	33.586	23.146	-16.414	50.000	10.440	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Model No.: APEX0377

Site: SR2	Time: 2017/09/13 - 15:22
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	

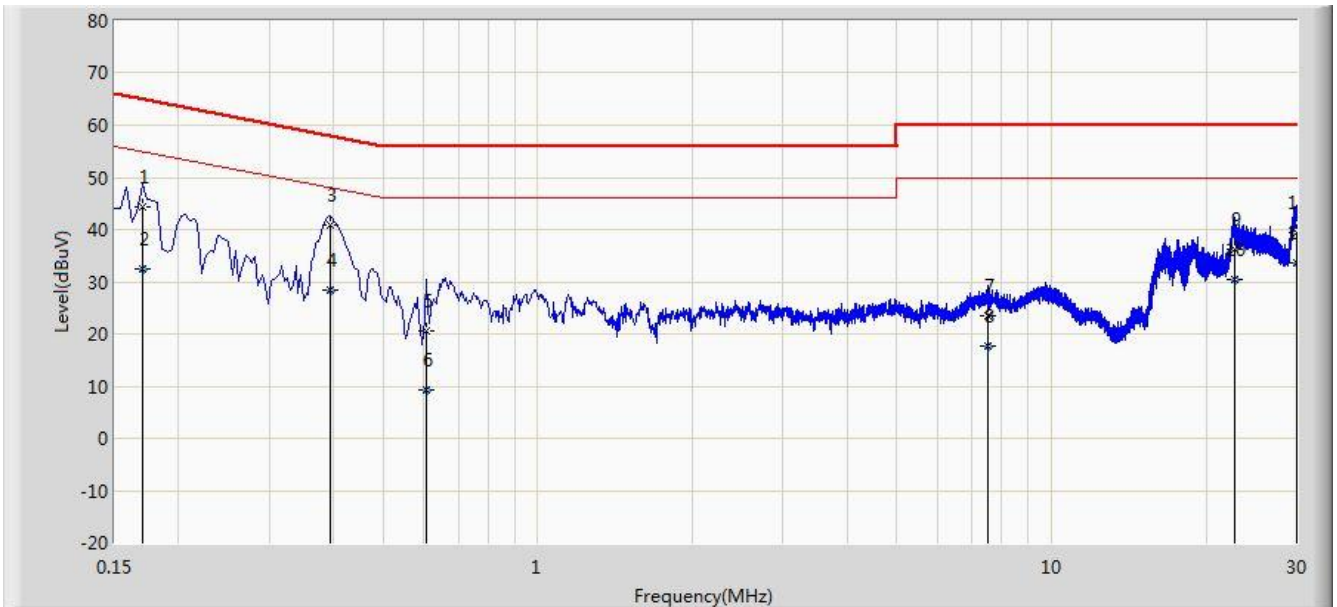


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.174	44.837	34.769	-19.930	64.767	10.068	QP
2			0.174	34.876	24.808	-19.891	54.767	10.068	AV
3			0.206	41.611	31.630	-21.754	63.365	9.981	QP
4			0.206	33.574	23.593	-19.791	53.365	9.981	AV
5		*	0.394	42.125	32.045	-15.854	57.979	10.080	QP
6			0.394	30.091	20.011	-17.888	47.979	10.080	AV
7			0.654	28.755	18.668	-27.245	56.000	10.087	QP
8			0.654	20.741	10.654	-25.259	46.000	10.087	AV
9			18.946	31.998	21.884	-28.002	60.000	10.114	QP
10			18.946	22.928	12.813	-27.072	50.000	10.114	AV
11			29.950	39.492	29.222	-20.508	60.000	10.270	QP
12			29.950	33.756	23.486	-16.244	50.000	10.270	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2017/09/13 - 15:26
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: ACCESS POINT	Power: AC 120V/60Hz
Worst Case Mode: Transmit by BLE at channel 2402MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.170	44.320	34.256	-20.640	64.960	10.064	QP
2			0.170	32.536	22.472	-22.424	54.960	10.064	AV
3			0.394	40.729	30.621	-17.250	57.979	10.108	QP
4			0.394	28.435	18.327	-19.544	47.979	10.108	AV
5			0.606	20.544	10.416	-35.456	56.000	10.128	QP
6			0.606	9.244	-0.884	-36.756	46.000	10.128	AV
7			7.530	23.493	13.310	-36.507	60.000	10.183	QP
8			7.530	17.545	7.362	-32.455	50.000	10.183	AV
9			22.646	36.297	26.059	-23.703	60.000	10.238	QP
10			22.646	30.464	20.227	-19.536	50.000	10.238	AV
11			30.000	39.373	28.933	-20.627	60.000	10.440	QP
12		*	30.000	33.541	23.101	-16.459	50.000	10.440	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **ACCESS POINT FCC ID: Q9DAPEX037457** is in compliance with Part 15C of the FCC Rules.

————— The End —————