

Annex B

ZigBee Test Result

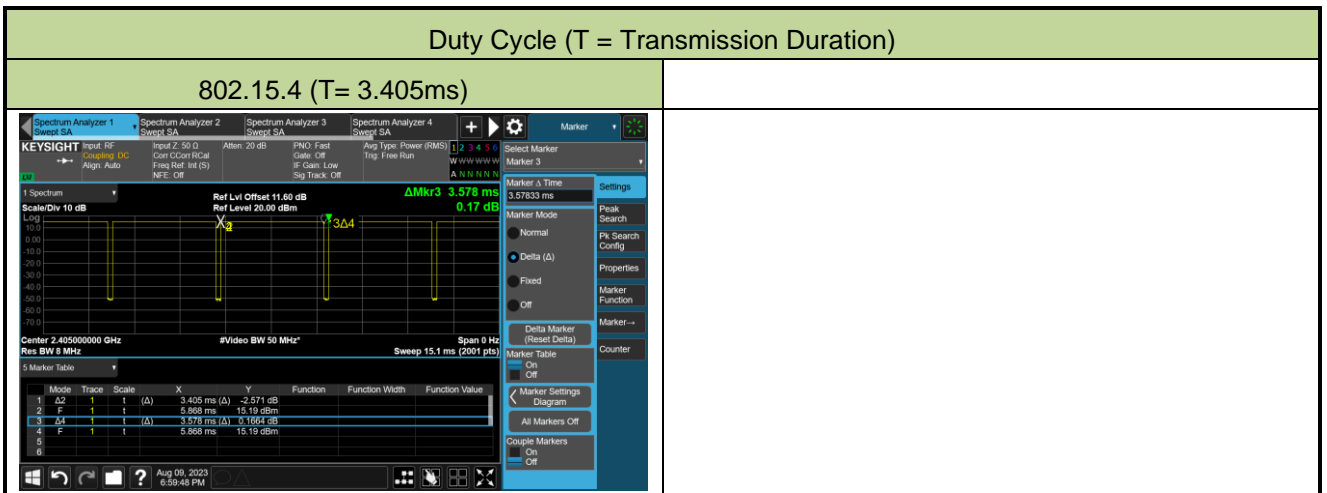
Model No.: APEX0675

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1. Duty Cycle Measurement Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-08-09		

Test Mode	Duty Cycle
802.15.4	95.16%



Note 1: This duty cycle was only suitable for continuous transmission of signals via commands.

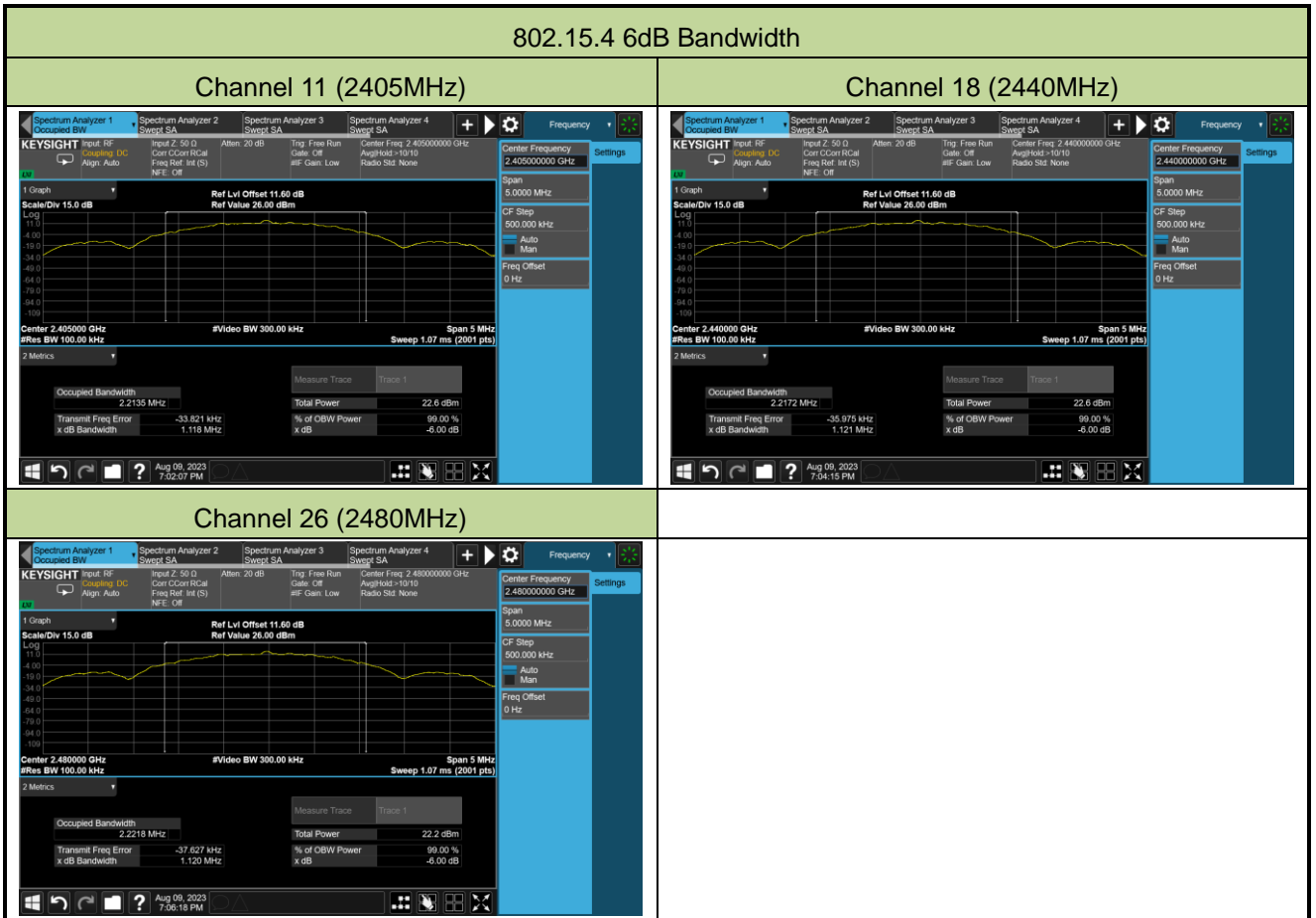
Note 2: The manufacturer, declared that the ZigBee normal operation, when implemented, will be limited to a max duty cycle of 10% or less in any 100ms period. So -20dB correction factor was used during peak and average band edge testing.



2. 6dB Bandwidth Measurement Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-08-09		

Test Mode	Modulation Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.15.4	O-QPSK	11	2405	1.118	≥ 0.5	Pass
802.15.4	O-QPSK	18	2440	1.121	≥ 0.5	Pass
802.15.4	O-QPSK	26	2480	1.120	≥ 0.5	Pass





3. Output Power Measurement Test Result

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-26	Filter Configuration	Filter 4#

Test Result of Peak Output Power

Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	11	2405	11.23	≤ 30.00	Pass
802.15.4	O-QPSK	18	2440	10.70	≤ 30.00	Pass
802.15.4	O-QPSK	26	2480	9.63	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	11	2405	11.15	≤ 30.00	Pass
802.15.4	O-QPSK	18	2440	10.62	≤ 30.00	Pass
802.15.4	O-QPSK	26	2480	9.38	≤ 30.00	Pass



Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-26	Filter Configuration	Filter 5#

Test Result of Peak Output Power

Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	11	2405	9.31	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	11	2405	9.20	≤ 30.00	Pass



Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2023-12-26	Filter Configuration	Filter 6#

Test Result of Peak Output Power

Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	26	2480	7.85	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

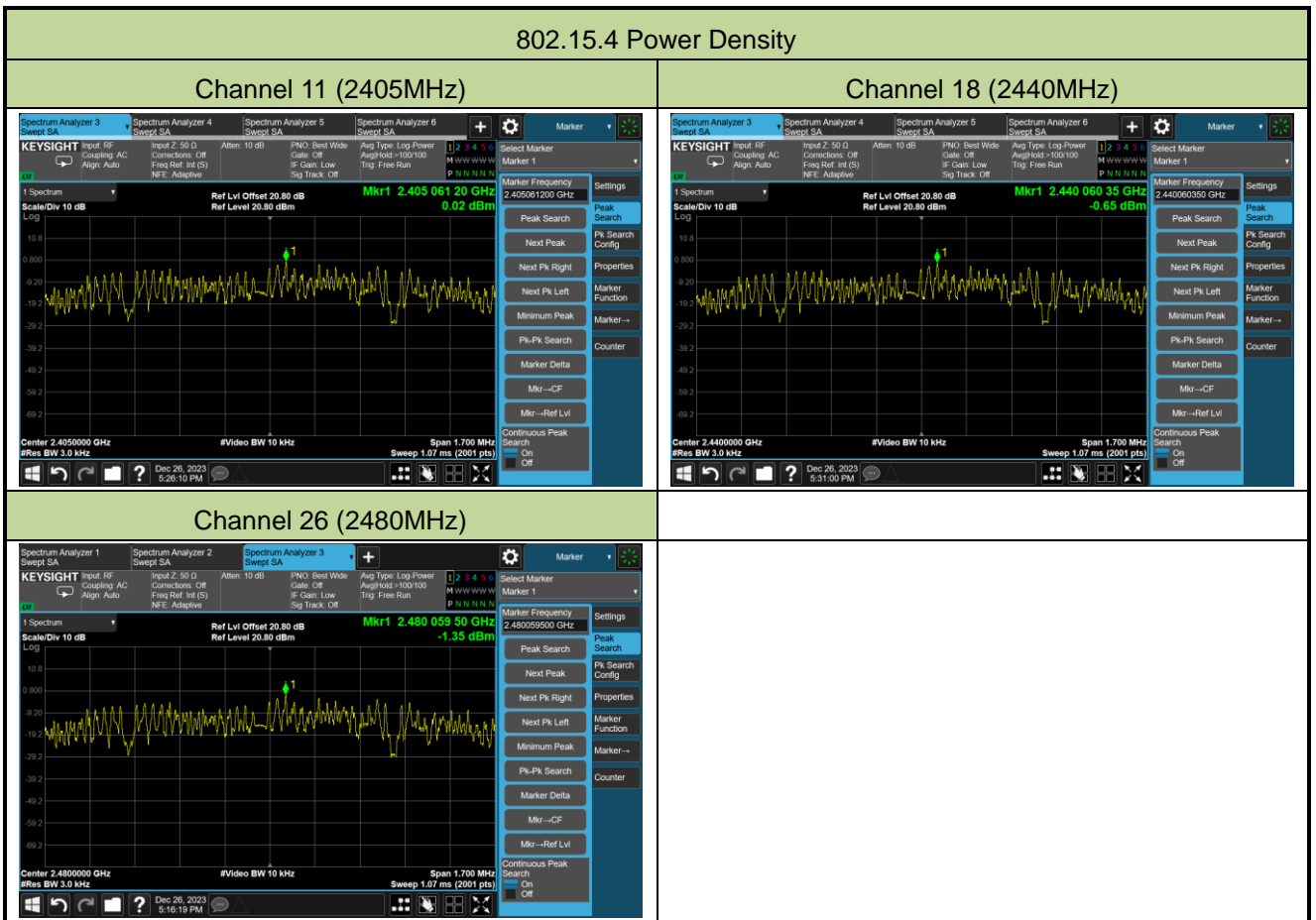
Test Mode	Modulation Mode	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	Result
802.15.4	O-QPSK	26	2480	7.70	≤ 30.00	Pass



4. Power Spectral Density Measurement Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-12-26		

Test Mode	Modulation Mode	Channel No.	Frequency (MHz)	PK PSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
802.15.4	O-QPSK	11	2405	0.02	≤ 8.00	Pass
802.15.4	O-QPSK	18	2440	-0.65	≤ 8.00	Pass
802.15.4	O-QPSK	26	2480	-1.35	≤ 8.00	Pass



5. Conducted Band Edge and Out-of-Band Emissions Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-12-26~2023-12-27	Filter Configuration	Filter 4#

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.15.4	O-QPSK	11	2405	20	Pass
802.15.4	O-QPSK	18	2440	20	Pass
802.15.4	O-QPSK	26	2480	20	Pass

802.15.4 Out-of-Band Emissions

Channel 11 (2405MHz)

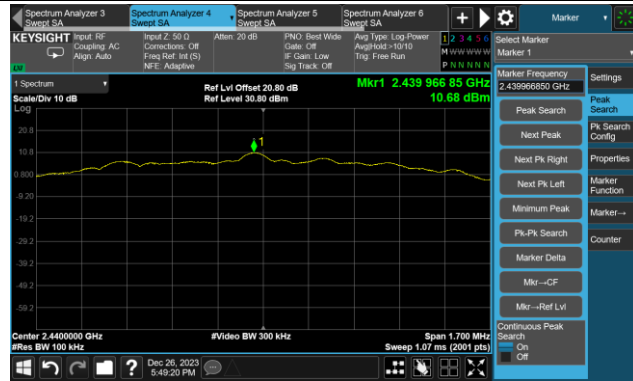
100kHz PSD Reference Level

Low Band Edge

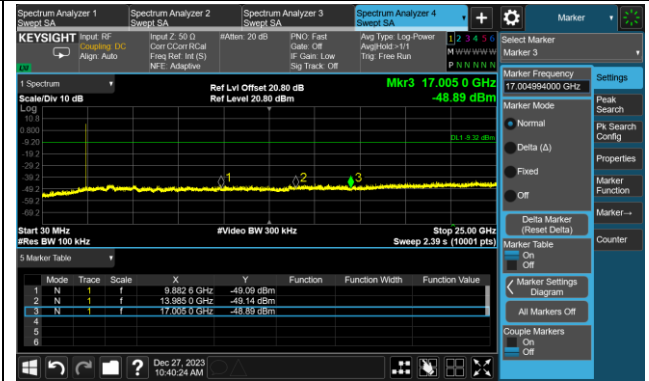
Spurious Emission

Channel 18 (2440MHz)

100kHz PSD Reference Level

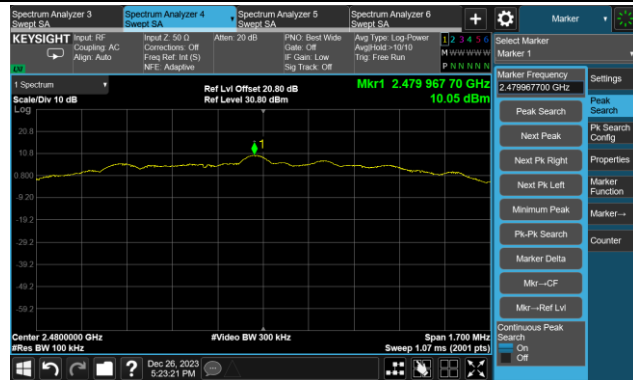


Spurious Emission



Channel 26 (2480MHz)

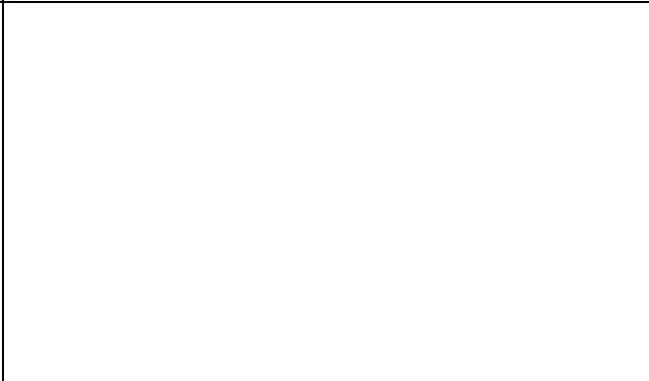
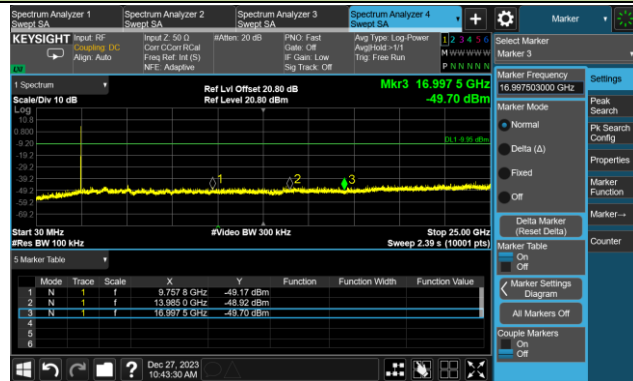
100kHz PSD Reference Level



High Band Edge



Spurious Emission





Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-12-27	Filter Configuration	Filter 5#

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.15.4	O-QPSK	11	2405	20	Pass

802.15.4 Out-of-Band Emissions

Channel 11 (2405MHz)

100kHz PSD Reference Level

Center 2.405000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Sweep 1.07 ms (2001 pts)

Low Band Edge

Center 2.400000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Sweep 1.47 ms (2001 pts)

Spurious Emission

Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Sweep 2.39 s (10001 pts)



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-12-27	Filter Configuration	Filter 6#

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
802.15.4	O-QPSK	26	2480	20	Pass

802.15.4 Out-of-Band Emissions

Channel 26 (2480MHz)

100kHz PSD Reference Level

Marker Frequency: 2.479 971 95 GHz
Level: 7.42 dBm
Ref Level: 30.80 dBm

High Band Edge

Marker Frequency: 2.484 047 5 GHz
Level: -37.02 dBm
Ref Level: 30.80 dBm

Spurious Emission

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	9.697 9 GHz	-49.51 dBm		
2	N	1	f	14.010 0 GHz	-47.30 dBm		
3	N	1	f	17.154 4 GHz	-44.13 dBm		



6. Radiated Spurious Emission Measurement Test Result

Filter 4#

Test Site	WZ-AC2	Test Engineer	Karl Gao
Test Date	2023-12-26		
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	7392.0	31.9	11.8	43.7	74.0	-30.3	Peak	Horizontal
	8089.0	32.3	11.8	44.1	74.0	-29.9	Peak	Horizontal
	12160.5	31.2	17.2	48.4	74.0	-25.6	Peak	Horizontal
	7426.0	32.1	11.8	43.9	74.0	-30.1	Peak	Vertical
	8242.0	32.4	11.0	43.4	74.0	-30.6	Peak	Vertical
	11548.5	30.9	17.7	48.6	74.0	-25.4	Peak	Vertical
18	7613.0	30.8	11.8	42.7	74.0	-31.4	Peak	Horizontal
	8386.5	30.0	11.2	41.2	74.0	-32.8	Peak	Horizontal
	11565.5	31.3	17.8	49.1	74.0	-24.9	Peak	Horizontal
	7400.5	30.3	11.8	42.1	74.0	-31.9	Peak	Vertical
	8182.5	32.1	11.5	43.6	74.0	-30.4	Peak	Vertical
	11548.5	30.6	17.7	48.3	74.0	-25.7	Peak	Vertical
26	7655.5	32.5	11.3	43.8	74.0	-30.2	Peak	Horizontal
	11225.5	29.3	16.9	46.2	74.0	-27.8	Peak	Horizontal
	12279.5	30.5	17.4	47.9	74.0	-26.1	Peak	Horizontal
	7468.5	31.1	12.1	43.3	74.0	-30.7	Peak	Vertical
	11404.0	29.6	17.5	47.1	74.0	-26.9	Peak	Vertical
	11990.5	30.7	17.1	47.8	74.0	-26.2	Peak	Vertical

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

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

Filter 5#

Test Site	WZ-AC2	Test Engineer	Karl Gao
Test Date	2023-12-26		
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.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
11	7553.5	31.0	12.0	43.0	74.0	-31.0	Peak	Horizontal
	8310.0	30.9	10.9	41.8	74.0	-32.2	Peak	Horizontal
	11446.5	31.0	17.3	48.3	74.0	-25.7	Peak	Horizontal
	7570.5	31.1	11.7	42.8	74.0	-31.2	Peak	Vertical
	8480.0	31.0	11.7	42.7	74.0	-31.3	Peak	Vertical
	11506.0	30.7	17.4	48.2	74.0	-25.8	Peak	Vertical

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

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



Filter 6#

Test Site	WZ-AC2	Test Engineer	Karl Gao
Test Date	2023-12-26		
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.		

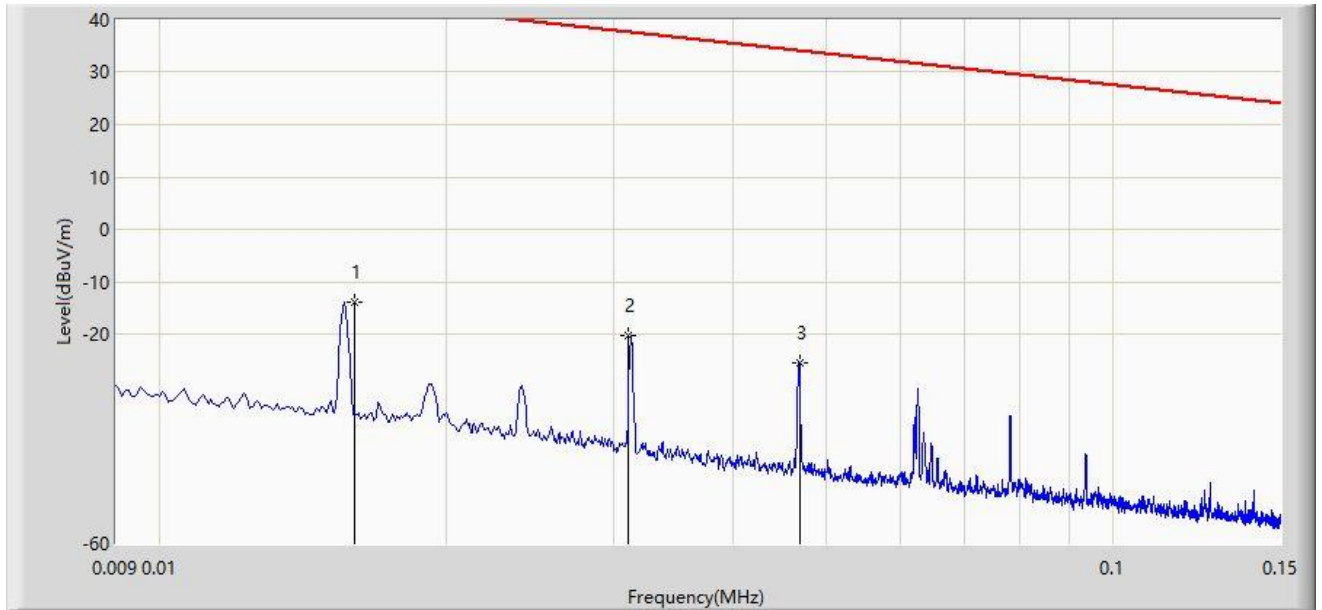
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
26	7434.5	30.8	11.9	42.7	74.0	-31.3	Peak	Horizontal
	8208.0	31.6	11.3	42.8	74.0	-31.2	Peak	Horizontal
	12186.0	30.1	17.7	47.8	74.0	-26.2	Peak	Horizontal
	7630.0	32.7	11.7	44.3	74.0	-29.7	Peak	Vertical
	8310.0	30.0	10.9	40.9	74.0	-33.1	Peak	Vertical
	11557.0	30.6	17.9	48.5	74.0	-25.5	Peak	Vertical

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

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

The Result of Radiated Emission below 1GHz:

Site: WZ-AC1	Test Date: 2023-10-12
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	0.016	-13.818	66.146	-57.324	43.505	-79.964	PK
2		0.031	-20.394	59.567	-58.157	37.764	-79.961	PK
3		0.047	-25.371	54.586	-59.522	34.151	-79.957	PK

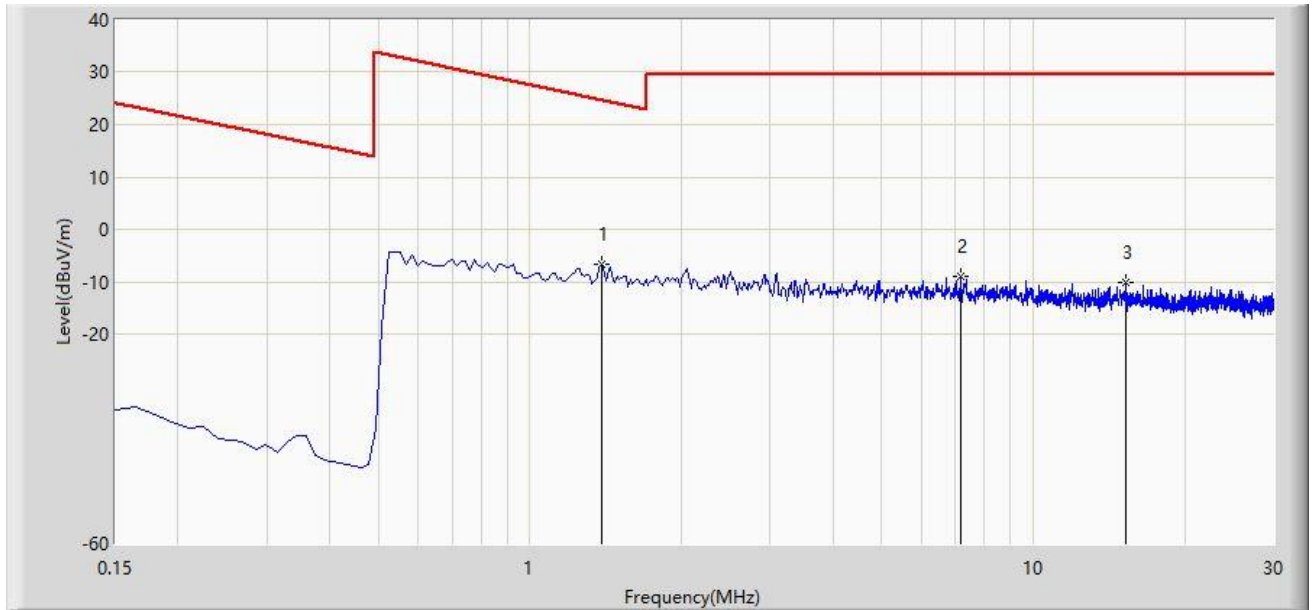
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-10-12
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	1.389	-6.655	33.143	-31.430	24.775	-39.798	PK
2		7.180	-9.117	30.578	-38.617	29.500	-39.695	PK
3		15.299	-10.036	29.621	-39.536	29.500	-39.657	PK

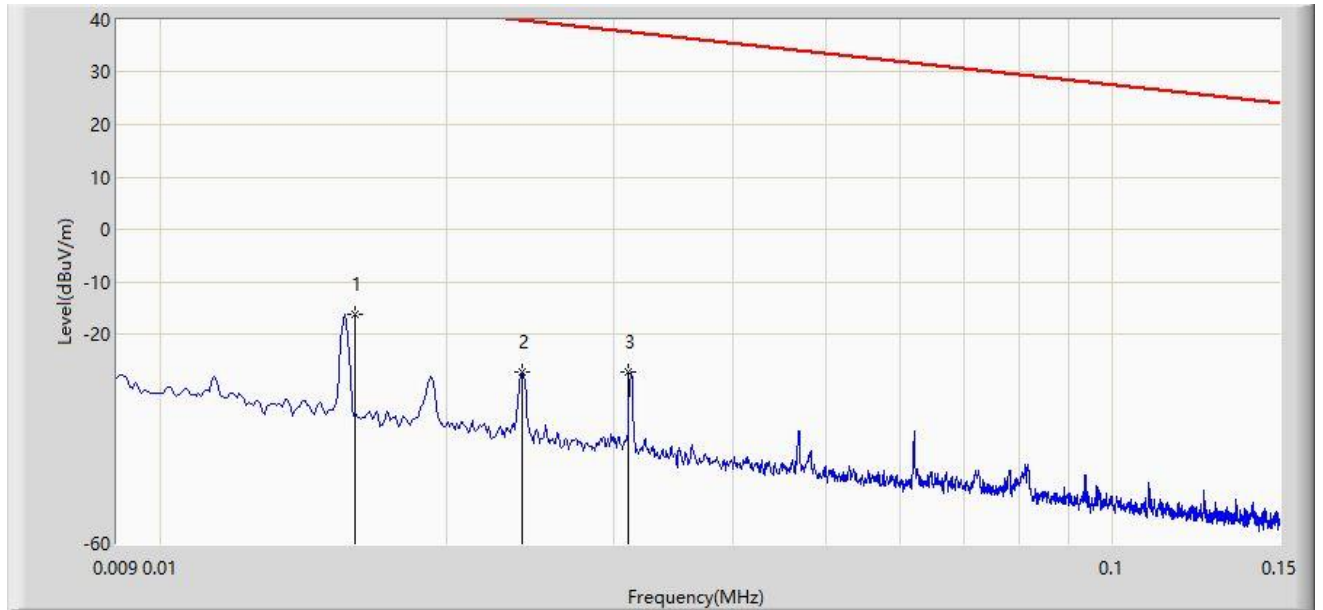
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-10-12
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	0.016	-16.125	63.839	-59.631	43.505	-79.964	PK
2		0.024	-27.292	52.670	-67.278	39.985	-79.962	PK
3		0.031	-27.334	52.627	-65.097	37.764	-79.961	PK

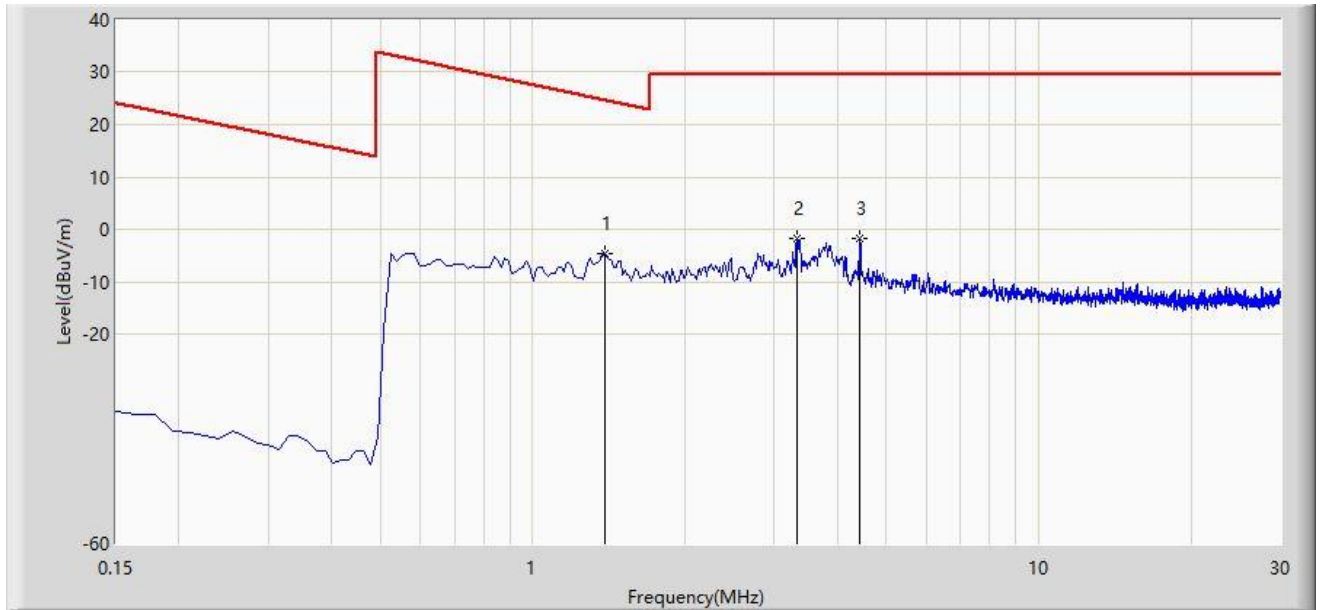
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-10-12
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	1.389	-4.519	35.279	-29.294	24.775	-39.798	PK
2		3.329	-1.751	38.022	-31.251	29.500	-39.773	PK
3		4.433	-1.628	38.111	-31.128	29.500	-39.739	PK

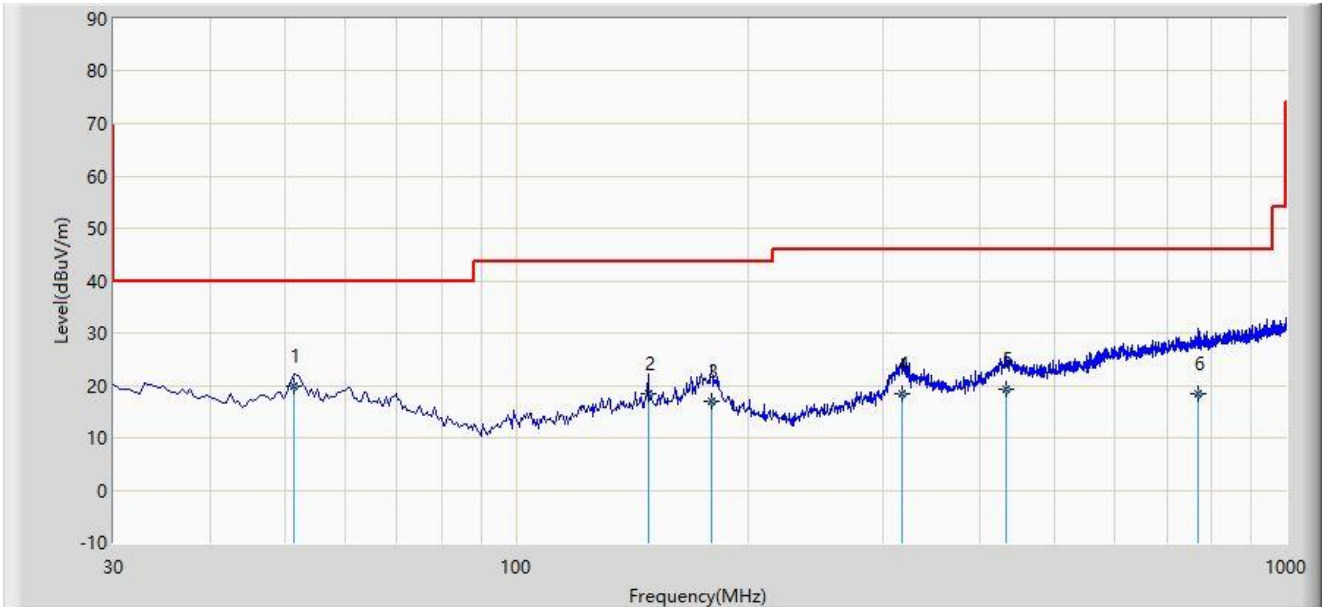
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC1	Test Date: 2023-08-22
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: VULB 9168_25-2000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	51.340	19.782	1.200	-20.218	40.000	18.582	QP
2		148.330	18.454	0.400	-25.046	43.500	18.054	QP
3		179.380	16.863	-0.100	-26.637	43.500	16.963	QP
4		317.120	18.305	-0.800	-27.695	46.000	19.105	QP
5		432.065	19.264	-2.700	-26.736	46.000	21.964	QP
6		767.685	18.425	-9.700	-27.575	46.000	28.125	QP

Note 1: " * ", means this data is the worst emission level.

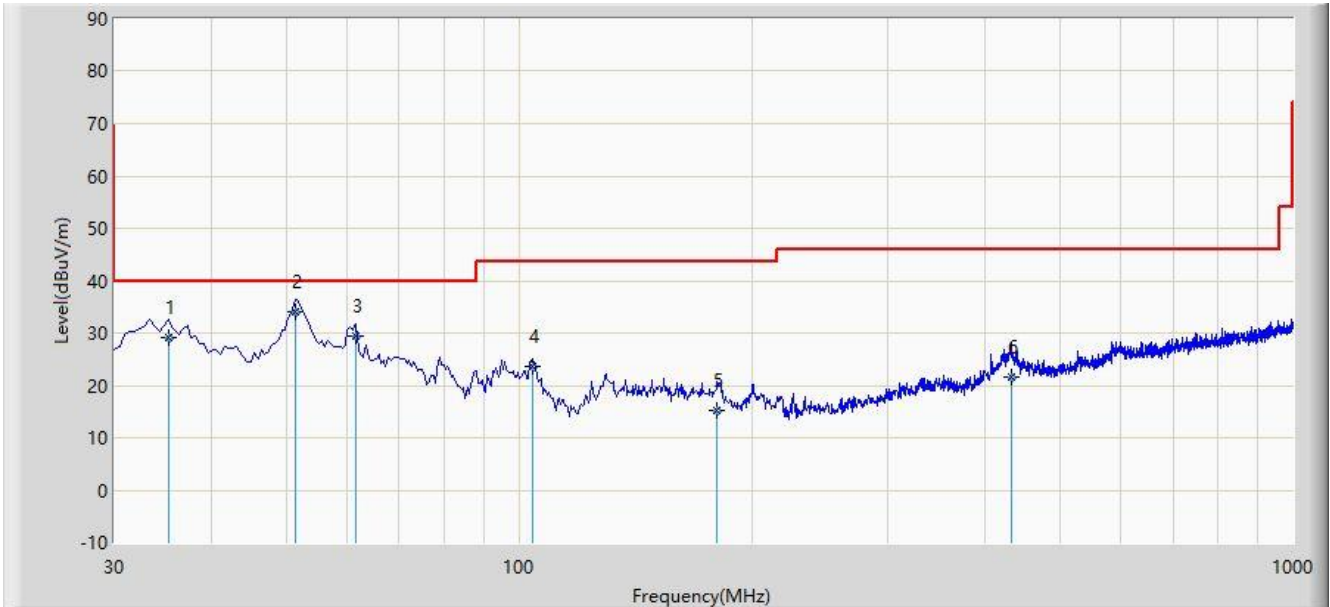
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC1	Test Date: 2023-08-22
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Carl Jiang
Probe: VULB 9168_25-2000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		35.335	29.029	11.500	-10.971	40.000	17.529	QP
2	*	51.340	33.982	15.400	-6.018	40.000	18.582	QP
3		61.520	29.480	11.700	-10.520	40.000	17.780	QP
4		104.200	23.574	9.400	-19.926	43.500	14.174	QP
5		180.350	15.349	-1.500	-28.151	43.500	16.848	QP
6		432.065	21.564	-0.400	-24.436	46.000	21.964	QP

Note 1: " * ", means this data is the worst emission level.

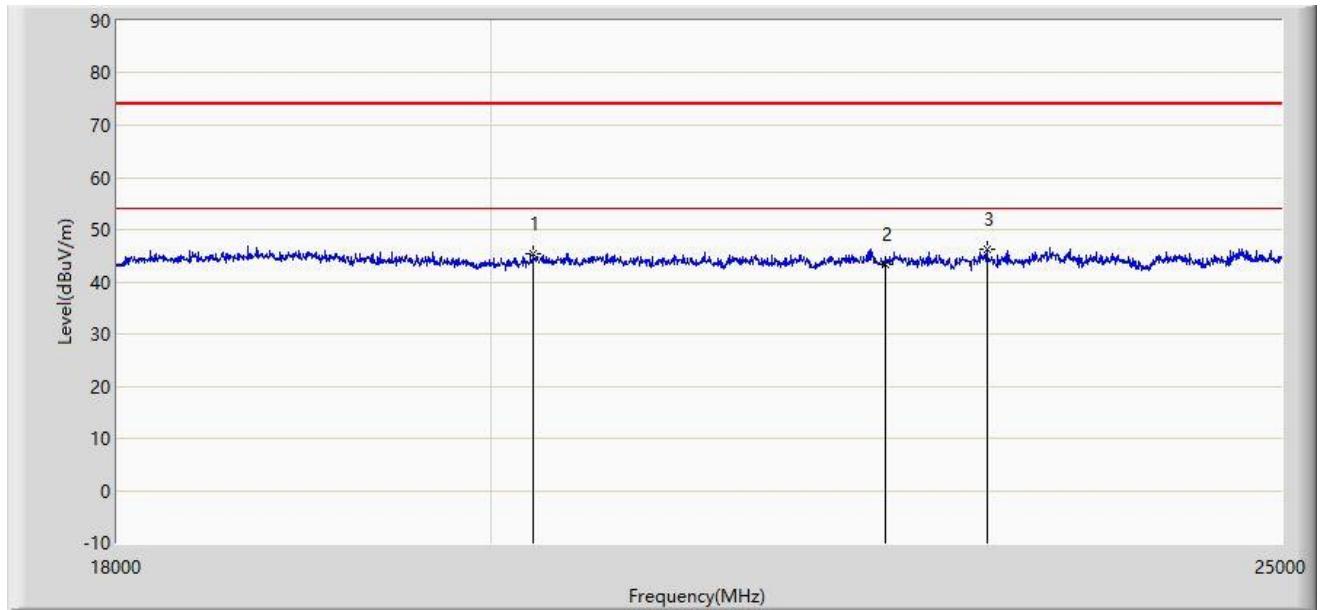
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: WZ-AC1	Test Date: 2023-09-23
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Ajin Fan
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		20247.000	45.436	55.054	-28.564	74.000	-9.617	PK
2		22357.500	43.261	51.869	-30.739	74.000	-8.608	PK
3	*	23008.500	46.293	53.265	-27.707	74.000	-6.972	PK

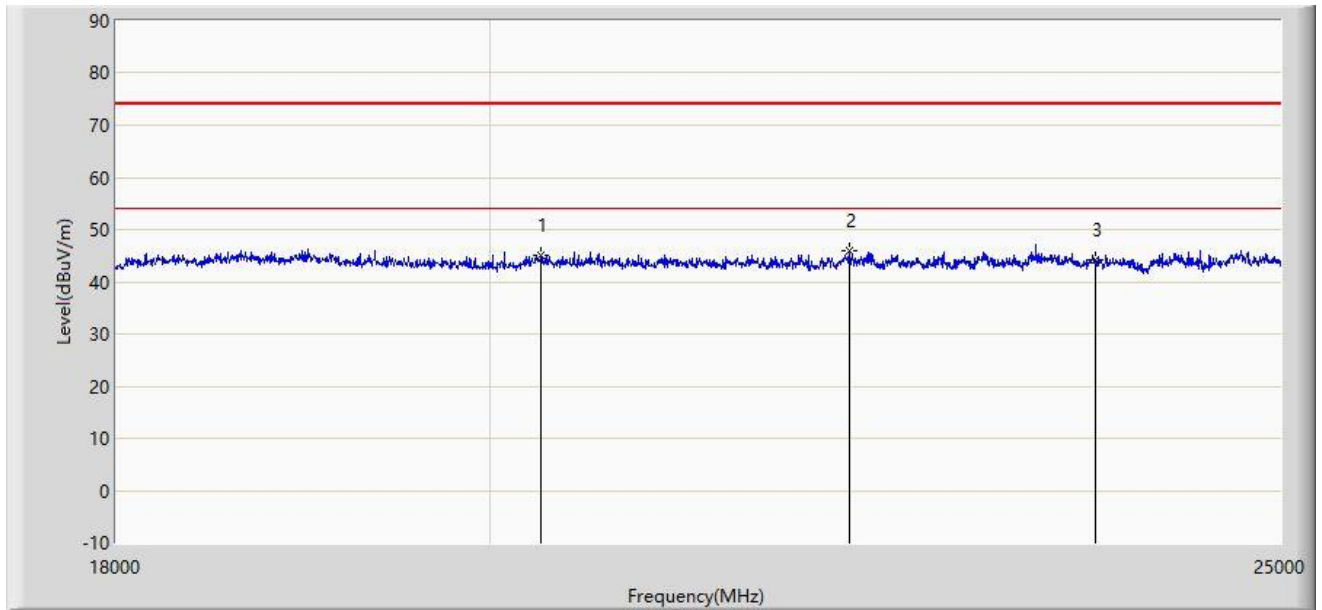
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC1	Test Date: 2023-09-23
Limit: FCC_Part 15.209_RSE(3m)	Engineer: Ajin Fan
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		20296.000	45.067	54.524	-28.933	74.000	-9.457	PK
2	*	22137.000	45.831	53.539	-28.169	74.000	-7.708	PK
3		23729.500	44.163	51.676	-29.837	74.000	-7.513	PK

Note 1: " * ", means this data is the worst emission level.

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

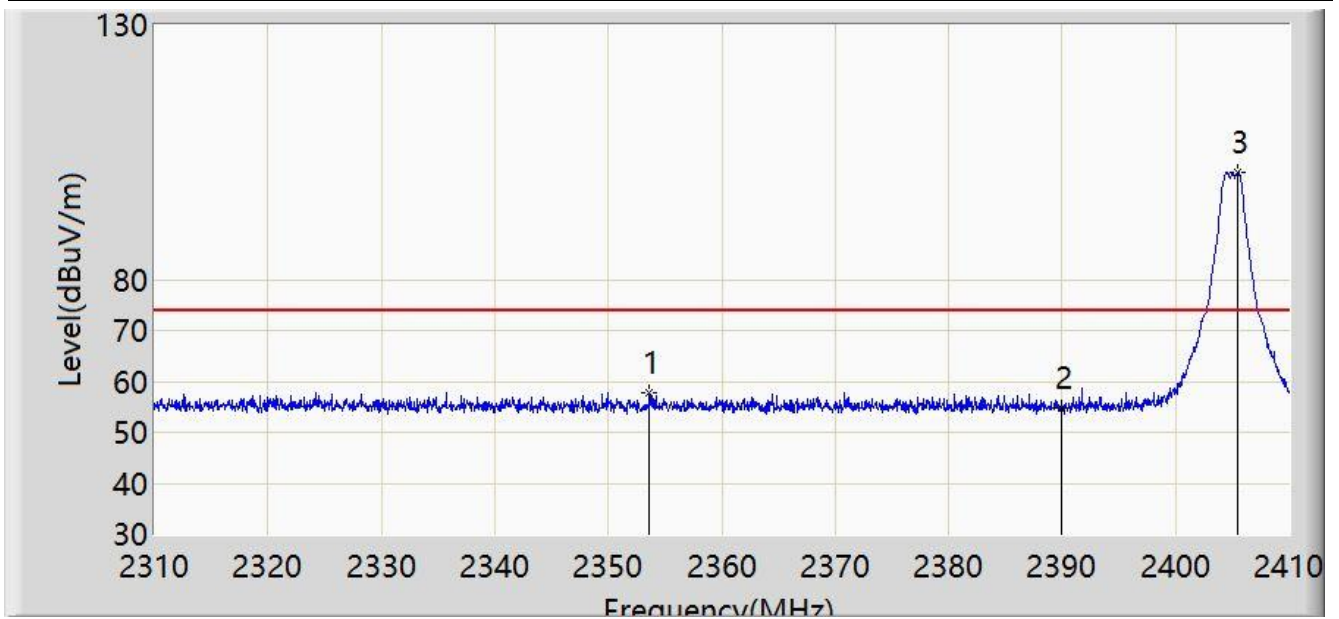
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

7. Radiated Restricted Band Edge Measurement Test Result

Filter 4#

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2405MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2353.650	57.859	25.912	-16.141	N/A	74.000	31.948	PK
		2353.650	37.859	25.912	-16.141	-20.00	54.000	31.948	AV
2		2390.000	54.729	22.876	-19.271	N/A	74.000	31.853	PK
		2390.000	34.729	22.876	-19.271	-20.00	54.000	31.853	AV
3		2405.450	100.906	69.133	N/A	N/A	N/A	31.773	PK
		2405.450	80.906	69.133	N/A	-20.00	N/A	31.773	AV

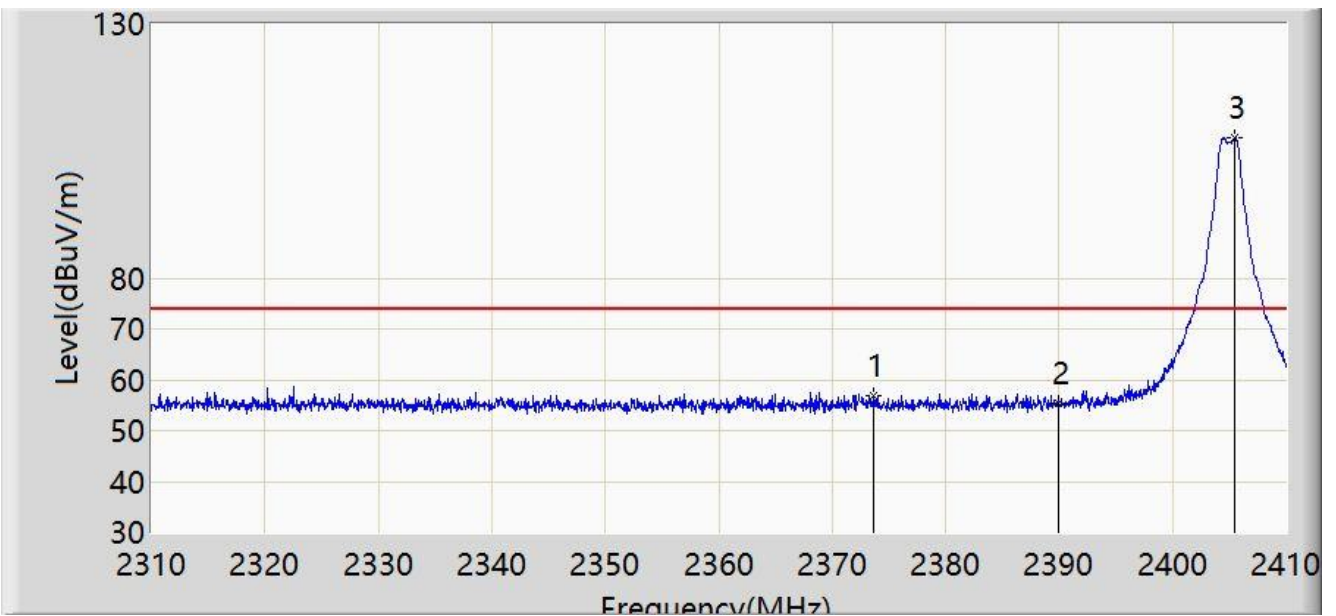
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2405MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2373.600	56.986	25.079	-17.014	N/A	74.000	31.907	PK
		2373.600	36.986	25.079	-17.014	-20.00	54.000	31.907	AV
2		2390.000	55.367	23.514	-18.633	N/A	74.000	31.853	PK
		2390.000	35.367	23.514	-18.633	-20.00	54.000	31.853	AV
3		2405.450	107.500	75.727	N/A	N/A	N/A	31.773	PK
		2405.450	87.500	75.727	N/A	-20.00	N/A	31.773	AV

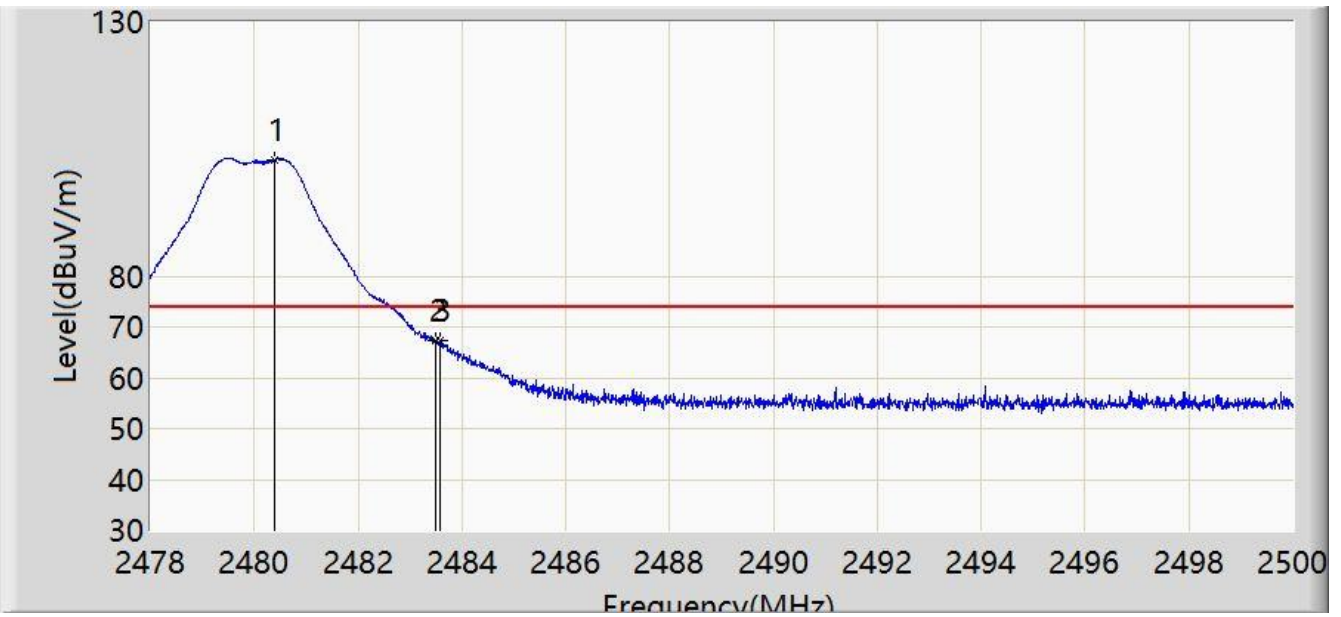
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.387	102.856	71.157	N/A	N/A	N/A	31.699	PK
		2480.387	82.856	71.157	N/A	-20.00	N/A	31.699	AV
2		2483.500	67.359	35.662	-6.641	N/A	74.000	31.696	PK
		2483.500	47.359	35.662	-6.641	-20.00	54.000	31.696	AV
3	*	2483.566	67.460	35.763	-6.540	N/A	74.000	31.697	PK
		2483.566	47.460	35.763	-6.540	-20.00	54.000	31.697	AV

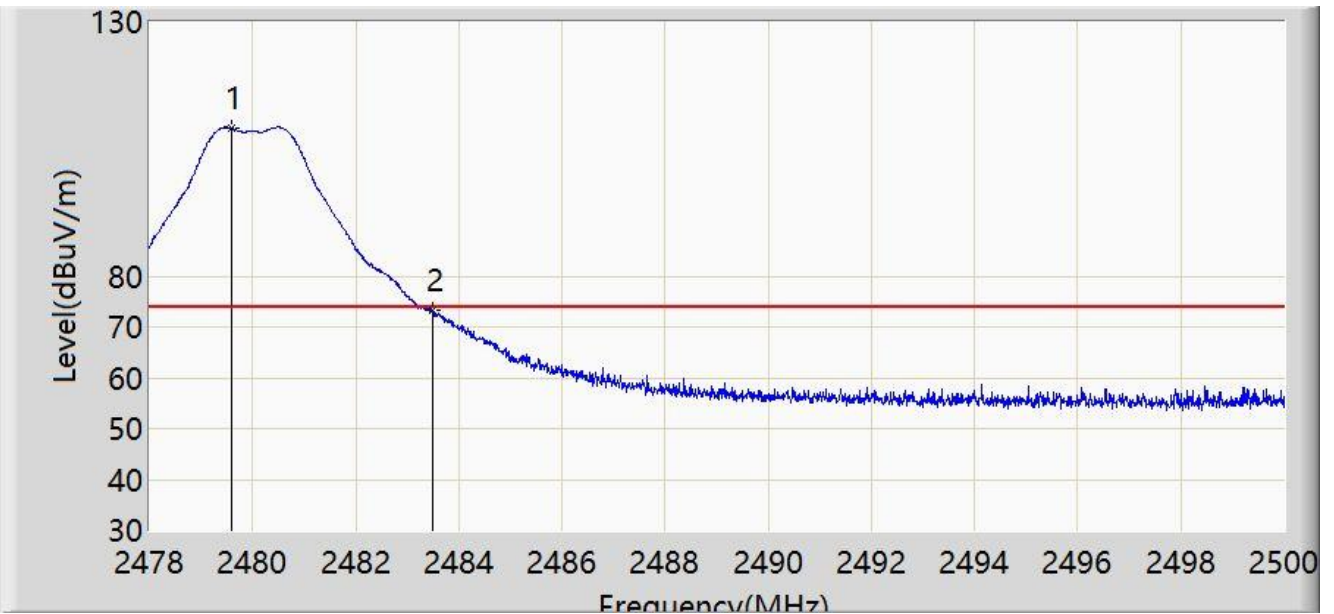
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.595	109.090	77.391	N/A	N/A	N/A	31.699	PK
		2479.595	89.090	77.391	N/A	-20.00	N/A	31.699	AV
2	*	2483.500	73.181	41.484	-0.819	N/A	74.000	31.696	PK
		2483.500	53.181	41.484	-0.819	-20.00	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

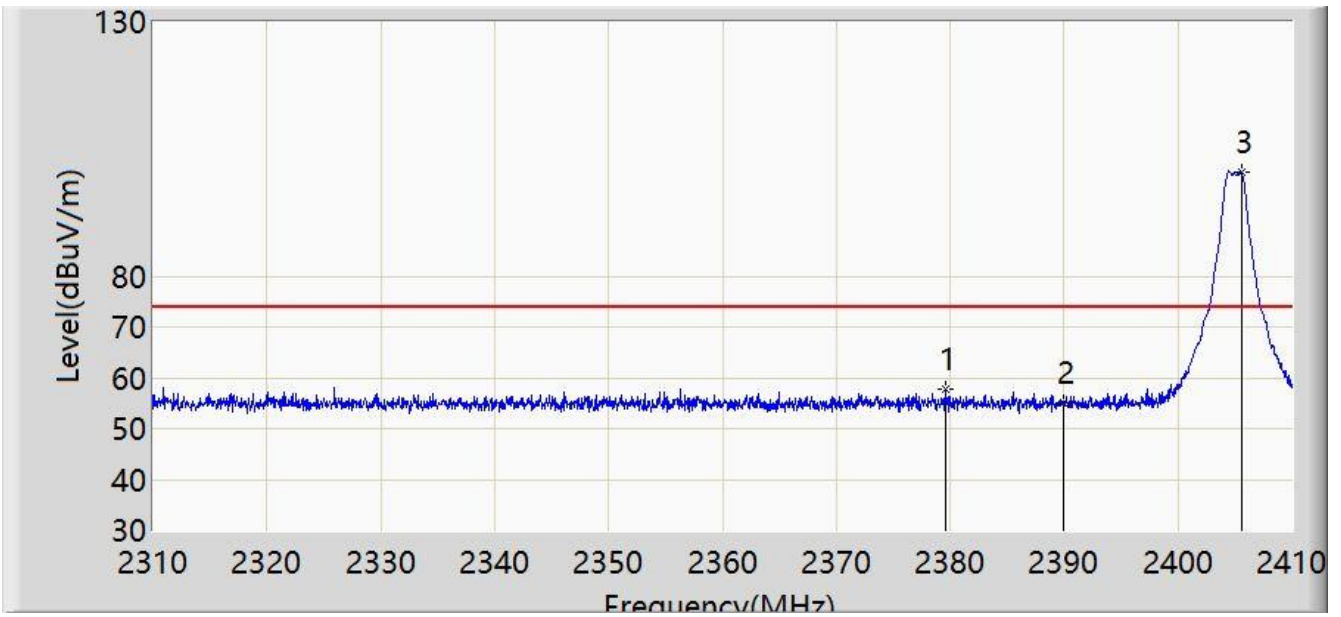
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Filter 5#

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by zigBee at 2405MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2379.550	57.768	25.875	-16.232	N/A	74.000	31.893	PK
		2379.550	37.768	25.875	-16.232	-20.00	54.000	31.893	AV
2		2390.000	55.128	23.275	-18.872	N/A	74.000	31.853	PK
		2390.000	35.128	23.275	-18.872	-20.00	54.000	31.853	AV
3		2405.600	100.352	68.580	N/A	N/A	N/A	31.772	PK
		2405.600	100.352	68.580	N/A	-20.00	N/A	31.772	AV

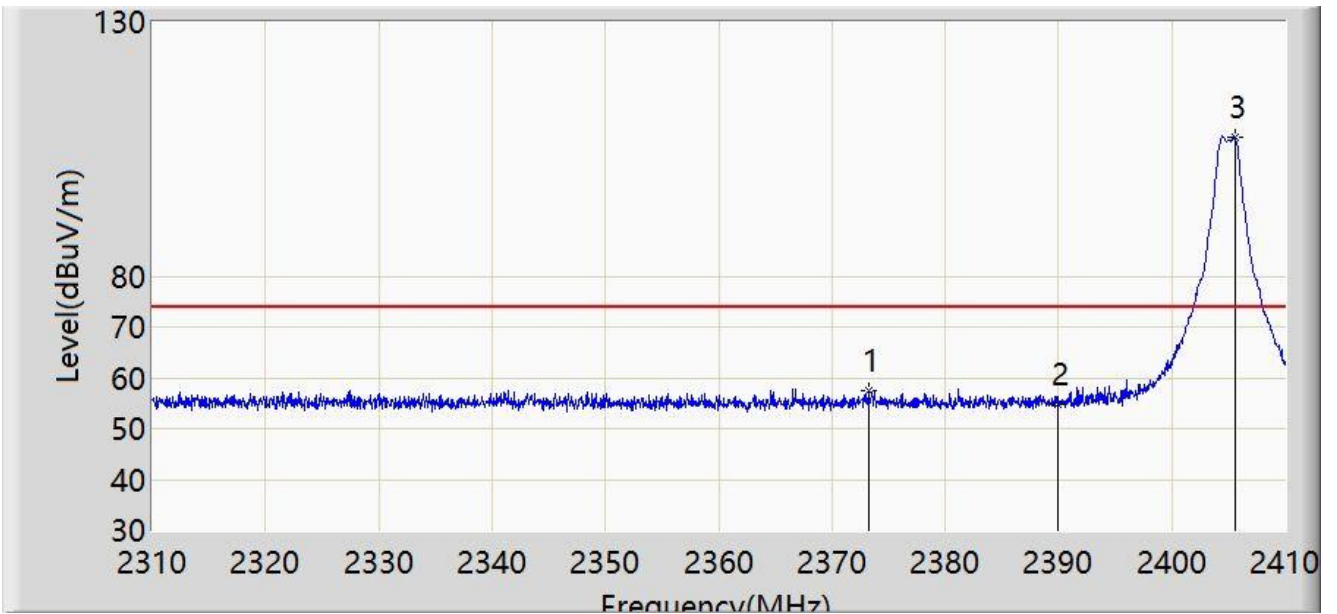
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by zigBee at 2405MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2373.250	57.408	25.500	-16.592	N/A	74.000	31.907	PK
		2373.250	37.408	25.500	-16.592	-20.00	54.000	31.907	AV
2		2390.000	54.918	23.065	-19.082	N/A	74.000	31.853	PK
		2390.000	34.918	23.065	-19.082	-20.00	54.000	31.853	AV
3		2405.600	107.302	75.530	N/A	N/A	N/A	31.772	PK
		2405.600	87.302	75.530	N/A	-20.00	N/A	31.772	AV

Note 1: " * ", means this data is the worst emission level.

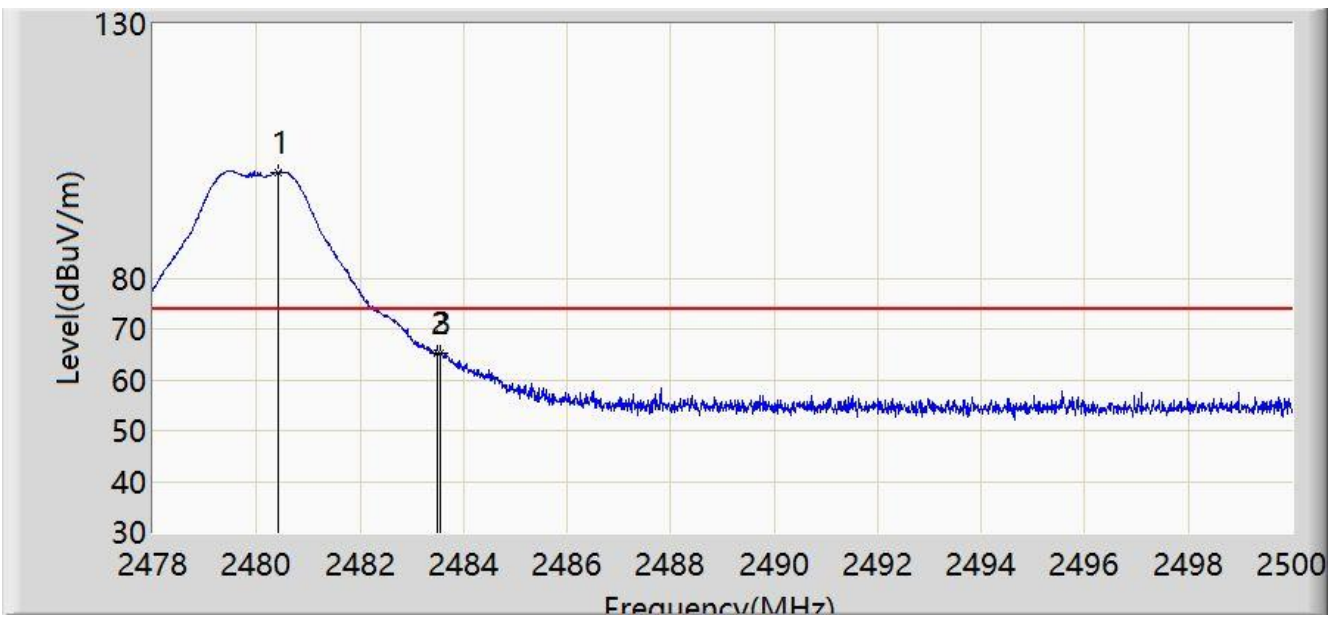
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Filter 6#

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.420	100.797	69.098	N/A	N/A	N/A	31.699	PK
		2480.420	80.797	69.098	N/A	-20.00	N/A	31.699	AV
2		2483.500	65.222	33.525	-8.778	N/A	74.000	31.696	PK
		2483.500	45.222	33.525	-8.778	-20.00	54.000	31.696	AV
3	*	2483.555	65.354	33.657	-8.646	N/A	74.000	31.697	PK
		2483.555	45.354	33.657	-8.646	-20.00	54.000	31.697	AV

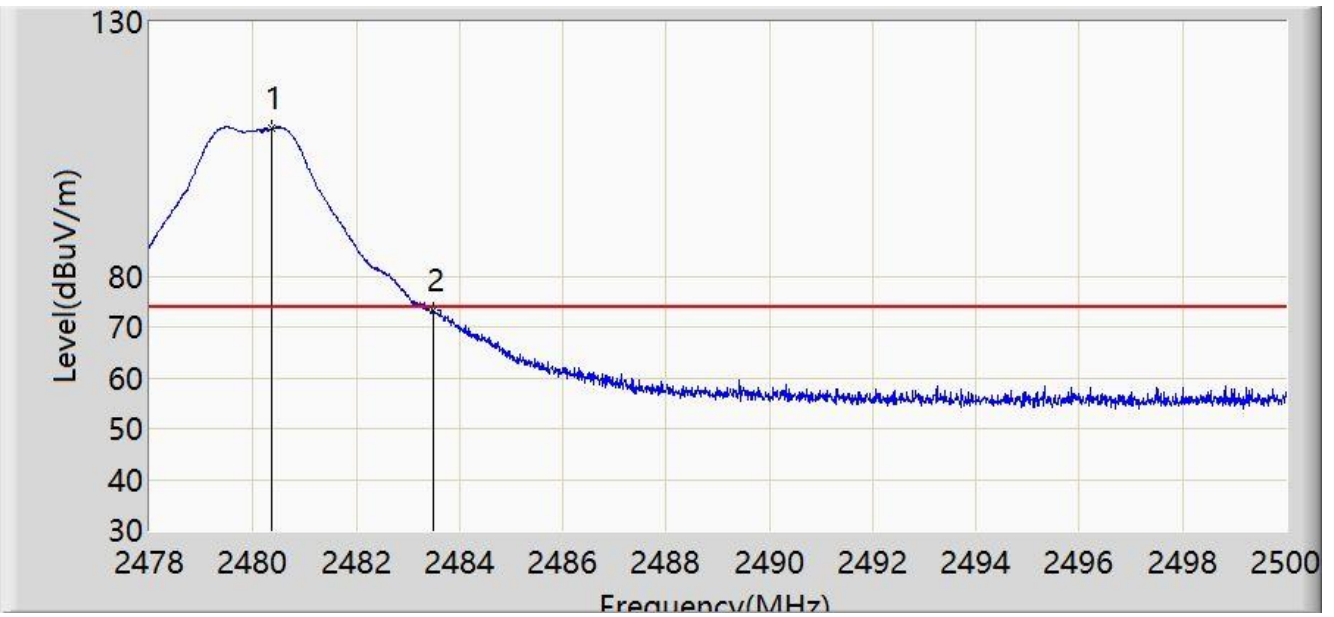
Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

Site: WZ-AC2	Test Date: 2023-12-26
Limit: FCC_2.4G_RE(3m)	Engineer: Karl Gao
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: By PoE
Test Mode: Transmit by ZigBee at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Duty cycle Factor (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2480.376	109.061	77.362	N/A	N/A	N/A	31.699	PK
		2480.376	89.061	77.362	N/A	-20.00	N/A	31.699	AV
2	*	2483.500	73.388	41.691	-0.612	N/A	74.000	31.696	PK
		2483.500	53.388	41.691	-0.612	-20.00	54.000	31.696	AV

Note 1: " * ", means this data is the worst emission level.

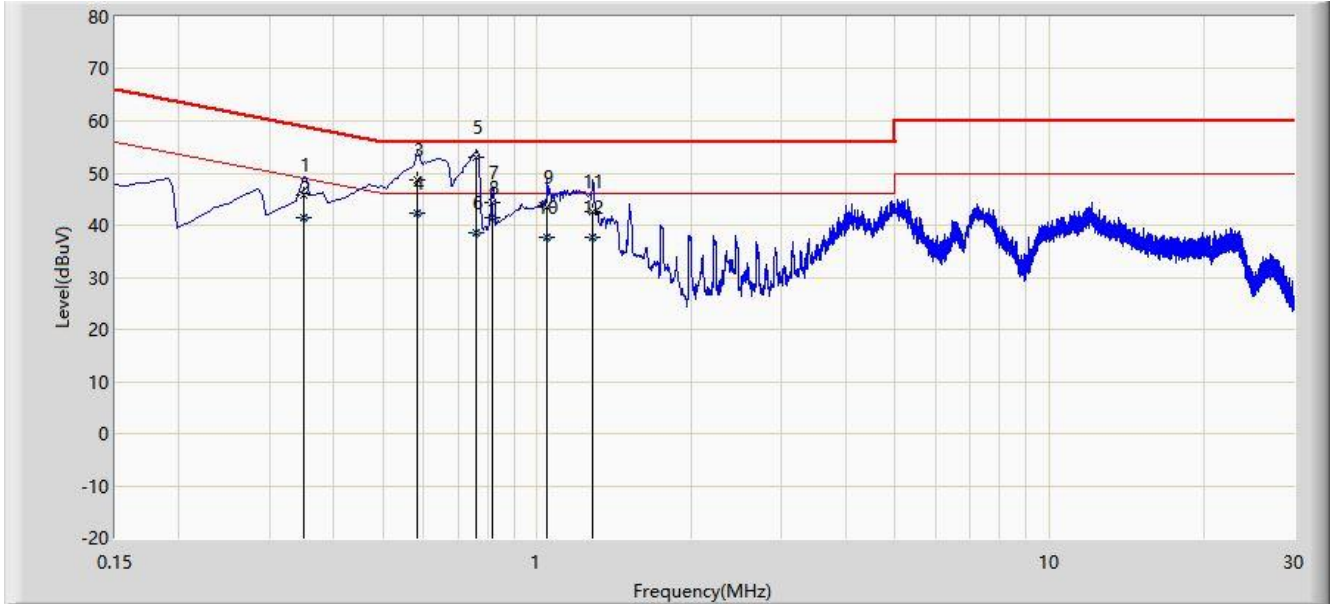
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4. Average Measure Level = Peak Measure Level + Duty Cycle Factor, Duty cycle factor = -20dB.

8. AC Conducted Emissions Test Result

Site: WZ-SR2	Test Date: 2023-12-21
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter Off_C	Polarity: Line
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by Zigbee at 2440MHz	



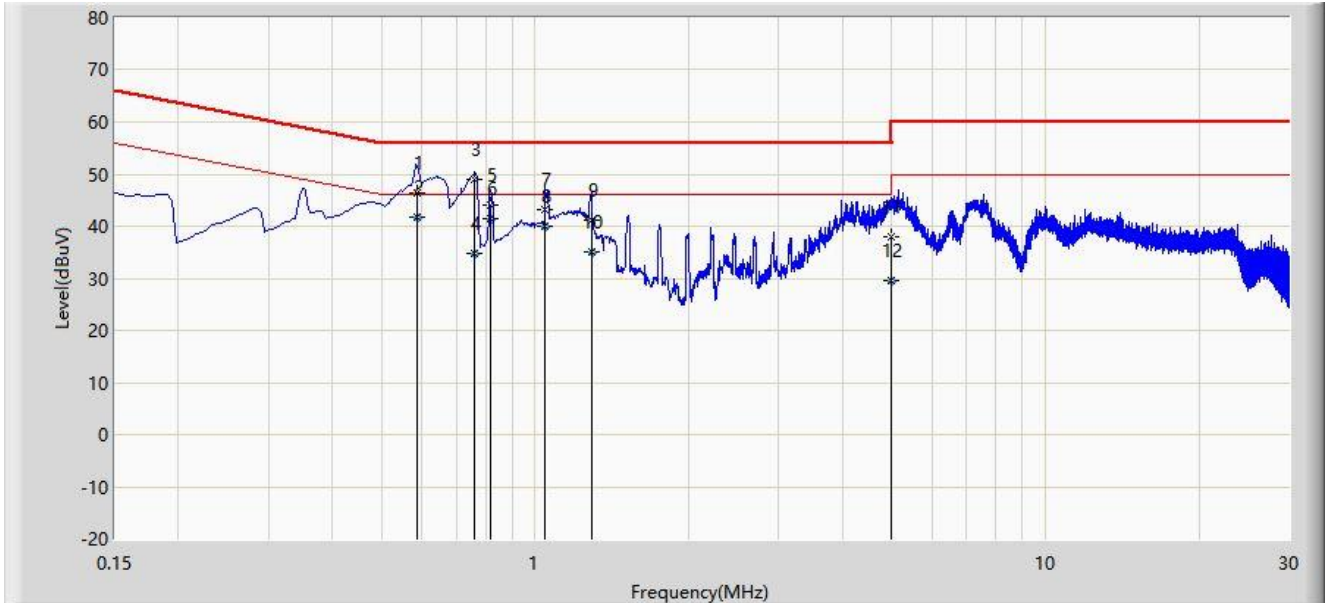
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.350	45.926	36.153	-13.037	58.962	9.773	QP
2		0.350	41.394	31.621	-7.568	48.962	9.773	AV
3		0.582	48.681	38.802	-7.319	56.000	9.878	QP
4		0.582	42.224	32.346	-3.776	46.000	9.878	AV
5	*	0.762	53.109	43.141	-2.891	56.000	9.967	QP
6		0.762	38.654	28.686	-7.346	46.000	9.967	AV
7		0.818	44.294	34.298	-11.706	56.000	9.997	QP
8		0.818	41.423	31.426	-4.577	46.000	9.997	AV
9		1.046	43.436	33.356	-12.564	56.000	10.081	QP
10		1.046	37.812	27.732	-8.188	46.000	10.081	AV
11		1.286	42.510	32.426	-13.490	56.000	10.084	QP
12		1.286	37.561	27.478	-8.439	46.000	10.084	AV

Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Test Date: 2023-12-21
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter Off_C	Polarity: Neutral
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by Zigbee at 2440MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.586	46.430	36.560	-9.570	56.000	9.870	QP
2	*	0.586	41.761	31.890	-4.239	46.000	9.870	AV
3		0.762	48.984	39.022	-7.016	56.000	9.961	QP
4		0.762	34.639	24.677	-11.361	46.000	9.961	AV
5		0.818	43.938	33.951	-12.062	56.000	9.987	QP
6		0.818	41.546	31.560	-4.454	46.000	9.987	AV
7		1.046	43.194	33.124	-12.806	56.000	10.071	QP
8		1.046	39.953	29.882	-6.047	46.000	10.071	AV
9		1.290	41.221	31.147	-14.779	56.000	10.074	QP
10		1.290	34.935	24.861	-11.065	46.000	10.074	AV
11		4.978	37.992	27.832	-18.008	56.000	10.160	QP
12		4.978	29.693	19.534	-16.307	46.000	10.160	AV

Note 1: " * ", means this data is the worst emission level.

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).