

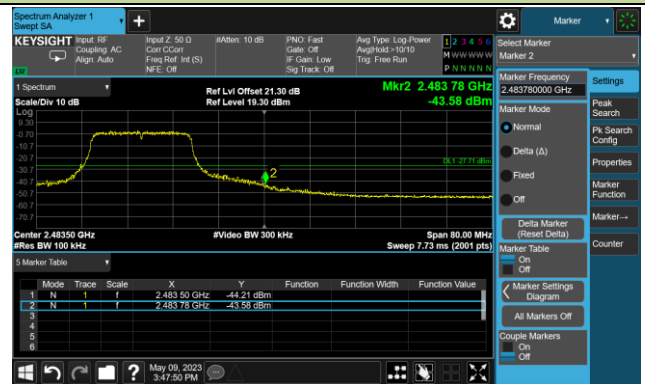
802.11n-HT20 Out-of-Band Emissions

Channel 11 (2462MHz)

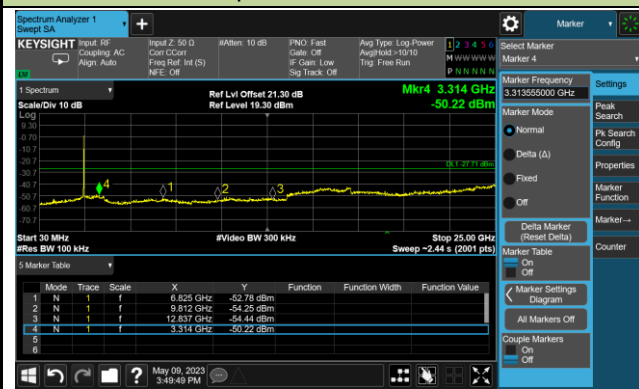
100kHz PSD Reference Level



High Band Edge



Spurious Emission



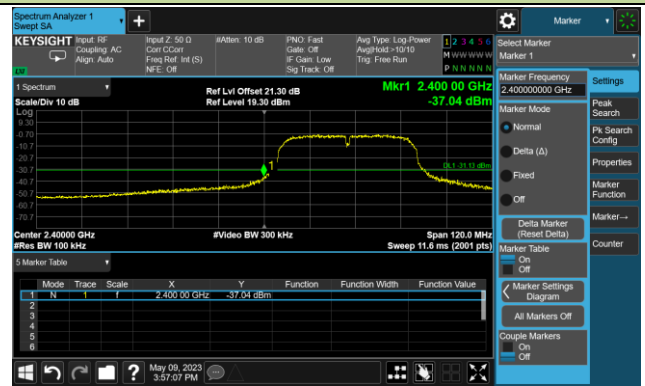
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

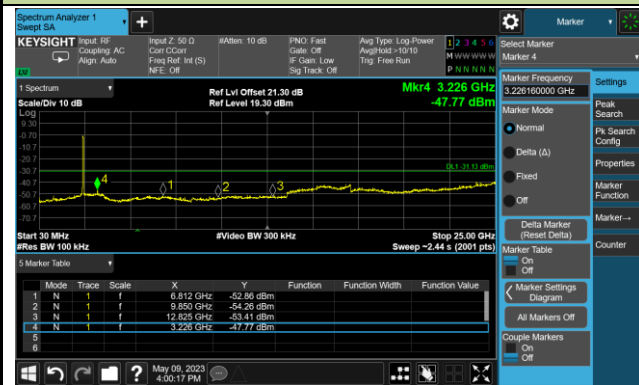
100kHz PSD Reference Level



Low Band Edge

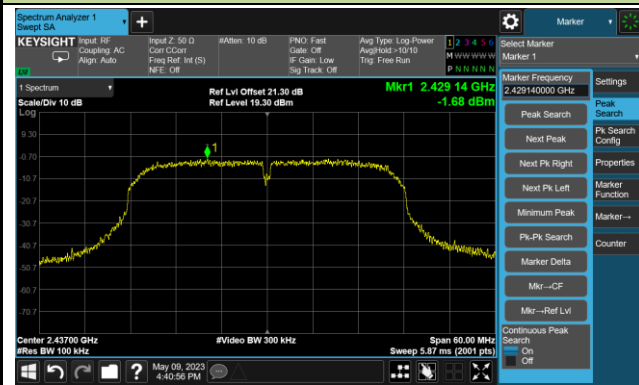


Spurious Emission

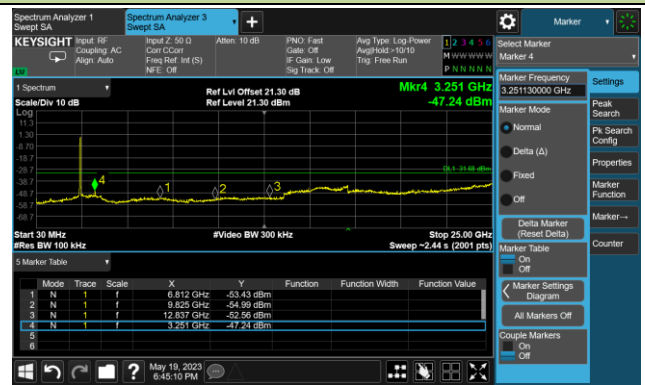


Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



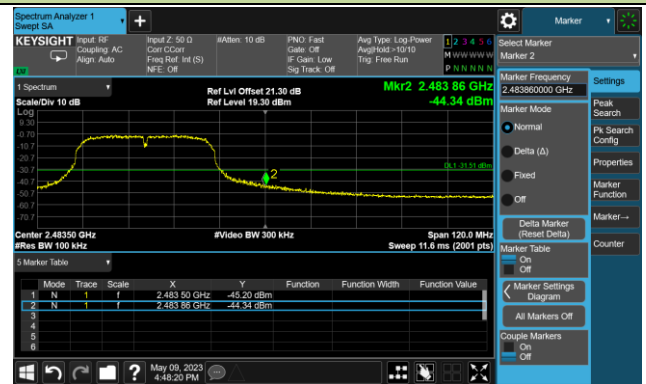
802.11n-HT40 Out-of-Band Emissions

Channel 09 (2452MHz)

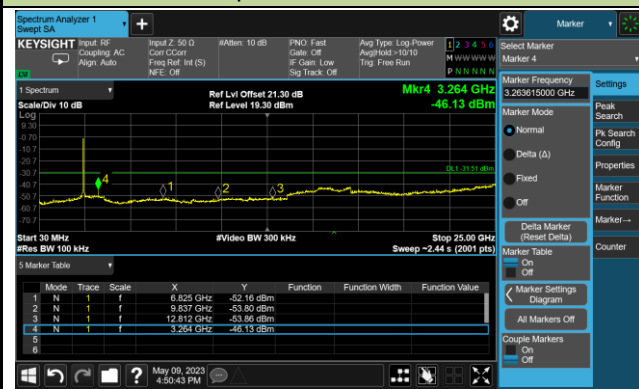
100kHz PSD Reference Level



High Band Edge



Spurious Emission



A.6 Radiated Spurious Emission Test Result

Test Site	SIP-AC2	Test Engineer	Mero Zhou
Test Date	2023-06-14	Test Mode:	802.11b
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 (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
01	4825.0	57.6	-3.9	53.7	74.0	-20.3	Peak	Horizontal
	4825.0	56.9	-3.9	53.0	54.0	-1.0	Average	Horizontal
	10868.5	41.0	5.1	46.1	74.0	-27.9	Peak	Horizontal
	17864.0	37.4	15.7	53.1	74.0	-20.9	Peak	Horizontal
	17864.0	26.3	15.7	42.0	54.0	-12.0	Average	Horizontal
	4825.0	55.9	-3.9	52.0	74.0	-22.0	Peak	Vertical
	4825.0	52.2	-3.9	48.3	54.0	-5.7	Average	Vertical
	10996.0	40.8	5.0	45.8	74.0	-28.2	Peak	Vertical
	17838.5	37.2	16.2	53.4	74.0	-20.6	Peak	Vertical
	17838.5	26.4	16.2	42.6	54.0	-11.4	Average	Vertical
06	4876.0	58.1	-3.7	54.4	74.0	-19.6	Peak	Horizontal
	4876.0	55.6	-3.7	51.9	54.0	-2.1	Average	Horizontal
	10851.5	41.9	4.9	46.8	74.0	-27.2	Peak	Horizontal
	17830.0	36.6	16.2	52.8	74.0	-21.2	Peak	Horizontal
	17830.0	25.8	16.2	42.0	54.0	-12.0	Average	Horizontal
	4876.0	56.9	-3.7	53.2	74.0	-20.8	Peak	Vertical
	4876.0	56.5	-3.7	52.8	54.0	-1.2	Average	Vertical
	11472.0	40.3	5.3	45.6	74.0	-28.4	Peak	Vertical
	17830.0	36.5	16.2	52.7	74.0	-21.3	Peak	Vertical
	17830.0	25.7	16.2	41.9	54.0	-12.1	Average	Vertical

11	4927.0	60.5	-3.7	56.8	74.0	-17.2	Peak	Horizontal
	4927.0	56.3	-3.7	52.6	54.0	-1.4	Average	Horizontal
	11540.0	40.0	5.5	45.5	74.0	-28.5	Peak	Horizontal
	17830.0	36.9	16.2	53.1	74.0	-20.9	Peak	Horizontal
	17830.0	26.4	16.2	42.6	54.0	-11.4	Average	Horizontal
	4927.0	57.2	-3.7	53.5	74.0	-20.5	Peak	Vertical
	4927.0	55.5	-3.7	51.8	54.0	-2.2	Average	Vertical
	11548.5	40.4	5.4	45.8	74.0	-28.2	Peak	Vertical
	17736.5	37.1	15.5	52.6	74.0	-21.4	Peak	Vertical
	17736.5	25.8	15.5	41.3	54.0	-12.7	Average	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC2	Test Engineer	Mero Zhou
Test Date	2023-05-05~2023-05-09	Test Mode:	802.11g
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
01	4825.0	64.5	-7.4	57.1	74.0	-16.9	Peak	Horizontal
	4825.0	55.0	-7.4	47.6	54.0	-6.4	Average	Horizontal
	8123.0	50.0	-3.1	46.9	74.0	-27.1	Peak	Horizontal
	15866.5	47.0	3.4	50.4	74.0	-23.6	Peak	Horizontal
	4825.0	65.8	-7.4	58.4	74.0	-15.6	Peak	Vertical
	4825.0	56.7	-7.4	49.3	54.0	-4.7	Average	Vertical
	8157.0	49.0	-3.2	45.8	74.0	-28.2	Peak	Vertical
	11684.5	48.2	-3.4	44.8	74.0	-29.2	Peak	Vertical
06	4876.0	62.1	-8.5	53.6	74.0	-20.4	Peak	Horizontal
	4876.0	53.4	-8.5	44.9	54.0	-9.1	Average	Horizontal
	8055.0	49.7	-3.2	46.5	74.0	-27.5	Peak	Horizontal
	15909.0	45.4	3.8	49.2	74.0	-24.8	Peak	Horizontal
	4867.5	63.1	-8.5	54.6	74.0	-19.4	Peak	Vertical
	4867.5	53.8	-8.5	45.3	54.0	-8.7	Average	Vertical
	8250.5	48.9	-3.1	45.8	74.0	-28.2	Peak	Vertical
	11880.0	49.1	-3.6	45.5	74.0	-28.5	Peak	Vertical
11	4927.0	60.7	-8.3	52.4	74.0	-21.6	Peak	Horizontal
	4927.0	51.7	-8.3	43.4	54.0	-10.6	Average	Horizontal
	8080.5	50.3	-3.1	47.2	74.0	-26.8	Peak	Horizontal
	15917.5	45.9	3.7	49.6	74.0	-24.4	Peak	Horizontal
	4927.0	61.6	-8.3	53.3	74.0	-20.7	Peak	Vertical
	4927.0	52.0	-8.3	43.7	54.0	-10.3	Average	Vertical
	8140.0	49.3	-2.9	46.4	74.0	-27.6	Peak	Vertical
	15798.5	46.6	3.1	49.7	74.0	-24.3	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)

Test Site	SIP-AC2	Test Engineer	Mero Zhou
Test Date	2023-05-05~2023-05-09	Test Mode:	802.11n-HT20
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
01	4816.0	53.7	-7.6	46.1	54.0	-7.9	Average	Horizontal
	4816.5	64.8	-7.6	57.2	74.0	-16.8	Peak	Horizontal
	8165.5	49.6	-3.2	46.4	74.0	-27.6	Peak	Horizontal
	11803.5	49.3	-3.6	45.7	74.0	-28.3	Peak	Horizontal
	4816.0	55.7	-7.6	48.1	54.0	-5.9	Average	Vertical
	4816.5	64.8	-7.6	57.2	74.0	-16.8	Peak	Vertical
	8225.0	49.4	-2.8	46.6	74.0	-27.4	Peak	Vertical
	15892.0	46.3	3.6	49.9	74.0	-24.1	Peak	Vertical
06	4876.0	63.2	-8.5	54.7	74.0	-19.3	Peak	Horizontal
	4876.0	53.5	-8.5	45.0	54.0	-9.0	Average	Horizontal
	8131.5	49.2	-3.0	46.2	74.0	-27.8	Peak	Horizontal
	15909.0	45.4	3.8	49.2	74.0	-24.8	Peak	Horizontal
	4876.0	63.6	-8.5	55.1	74.0	-18.9	Peak	Vertical
	4876.0	54.2	-8.5	45.7	54.0	-8.3	Average	Vertical
	8208.0	48.4	-2.7	45.7	74.0	-28.3	Peak	Vertical
	11021.5	48.2	-3.2	45.0	74.0	-29.0	Peak	Vertical
11	4935.5	59.3	-5.9	53.4	74.0	-20.6	Peak	Horizontal
	4935.5	49.5	-5.9	43.6	54.0	-10.4	Average	Horizontal
	11497.5	40.0	8.1	48.1	74.0	-25.9	Peak	Horizontal
	17991.5	37.1	20.3	57.4	74.0	-16.6	Peak	Horizontal
	17991.5	25.0	20.3	45.3	54.0	-8.7	Average	Horizontal
	4927.0	60.6	-6.0	54.6	74.0	-19.4	Peak	Vertical
	4927.0	50.5	-6.0	44.5	54.0	-9.5	Average	Vertical
	11650.5	40.6	7.4	48.0	74.0	-26.0	Peak	Vertical
	17830.0	37.5	19.3	56.8	74.0	-17.2	Peak	Vertical
	17830.0	25.1	19.3	44.4	54.0	-9.6	Average	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)

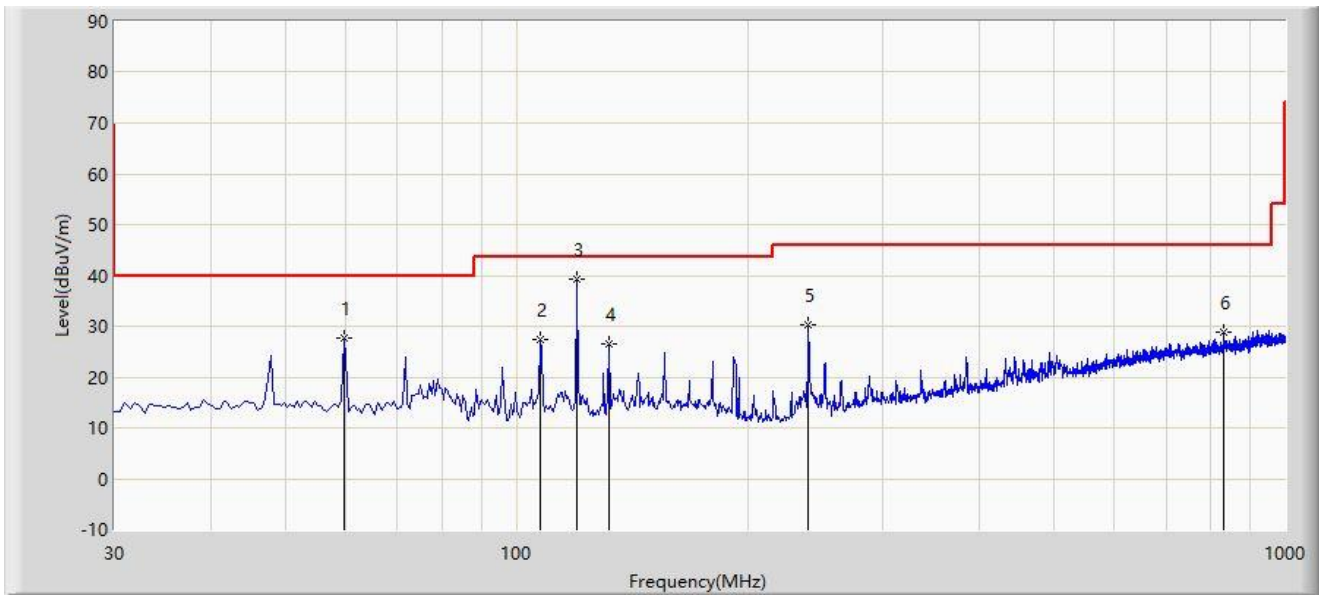
Test Site	SIP-AC2	Test Engineer	Mero Zhou
Test Date	2023-05-05~2023-05-09	Test Mode:	802.11n-HT40
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dB μ V)	Factor (dB/m)	Measure Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Polarization
01	4842.0	58.0	-6.0	52.0	74.0	-22.0	Peak	Horizontal
	4842.0	48.4	-6.0	42.4	54.0	-11.6	Average	Horizontal
	11004.5	40.3	7.5	47.8	74.0	-26.2	Peak	Horizontal
	17923.5	36.2	20.5	56.7	74.0	-17.3	Peak	Horizontal
	17923.5	25.1	20.5	45.6	54.0	-8.4	Average	Horizontal
	4859.0	58.3	-5.7	52.6	74.0	-21.4	Peak	Vertical
	4859.0	50.9	-5.7	45.2	54.0	-8.8	Average	Vertical
	11608.0	39.8	8.1	47.9	74.0	-26.1	Peak	Vertical
	17932.0	36.8	19.9	56.7	74.0	-17.3	Peak	Vertical
	17932.0	25.1	19.9	45.0	54.0	-9.0	Average	Vertical
06	4876.0	55.8	-6.1	49.7	74.0	-24.3	Peak	Horizontal
	4876.0	47.0	-6.1	40.9	54.0	-13.1	Average	Horizontal
	10919.5	42.0	7.5	49.5	74.0	-24.5	Peak	Horizontal
	17991.5	36.9	20.3	57.2	74.0	-16.8	Peak	Horizontal
	17991.5	25.0	20.3	45.3	54.0	-8.7	Average	Horizontal
	4876.0	59.1	-6.1	53.0	74.0	-21.0	Peak	Vertical
	4876.0	49.4	-6.1	43.3	54.0	-10.7	Average	Vertical
	11115.0	40.7	7.4	48.1	74.0	-25.9	Peak	Vertical
	18000.0	37.3	20.4	57.7	74.0	-16.3	Peak	Vertical
	18000.0	25.1	20.4	45.5	54.0	-8.5	Average	Vertical

11	4901.5	55.7	-5.9	49.8	74.0	-24.2	Peak	Horizontal
	4901.5	47.2	-5.9	41.3	54.0	-12.7	Average	Horizontal
	11421.0	40.7	7.8	48.5	74.0	-25.5	Peak	Horizontal
	17838.5	37.5	19.3	56.8	74.0	-17.2	Peak	Horizontal
	17838.5	25.1	19.3	44.4	54.0	-9.6	Average	Horizontal
	4901.5	59.0	-5.9	53.1	74.0	-20.9	Peak	Vertical
	4901.5	48.8	-5.9	42.9	54.0	-11.1	Average	Vertical
	11608.0	39.5	8.1	47.6	74.0	-26.4	Peak	Vertical
	17923.5	36.1	20.5	56.6	74.0	-17.4	Peak	Vertical
	17923.5	25.0	20.5	45.5	54.0	-8.5	Average	Vertical
Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + 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: SIP-AC3	Test Date: 2023-05-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Mero Zhou
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2437MHz	



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		59.585	27.755	10.627	-12.245	40.000	17.128	PK
2		107.600	27.491	12.924	-16.009	43.500	14.567	PK
3	*	119.725	39.239	23.579	-4.261	43.500	15.660	PK
4		131.850	26.562	9.811	-16.938	43.500	16.751	PK
5		240.005	30.202	13.792	-15.798	46.000	16.411	PK
6		832.675	28.928	0.142	-17.072	46.000	28.785	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).

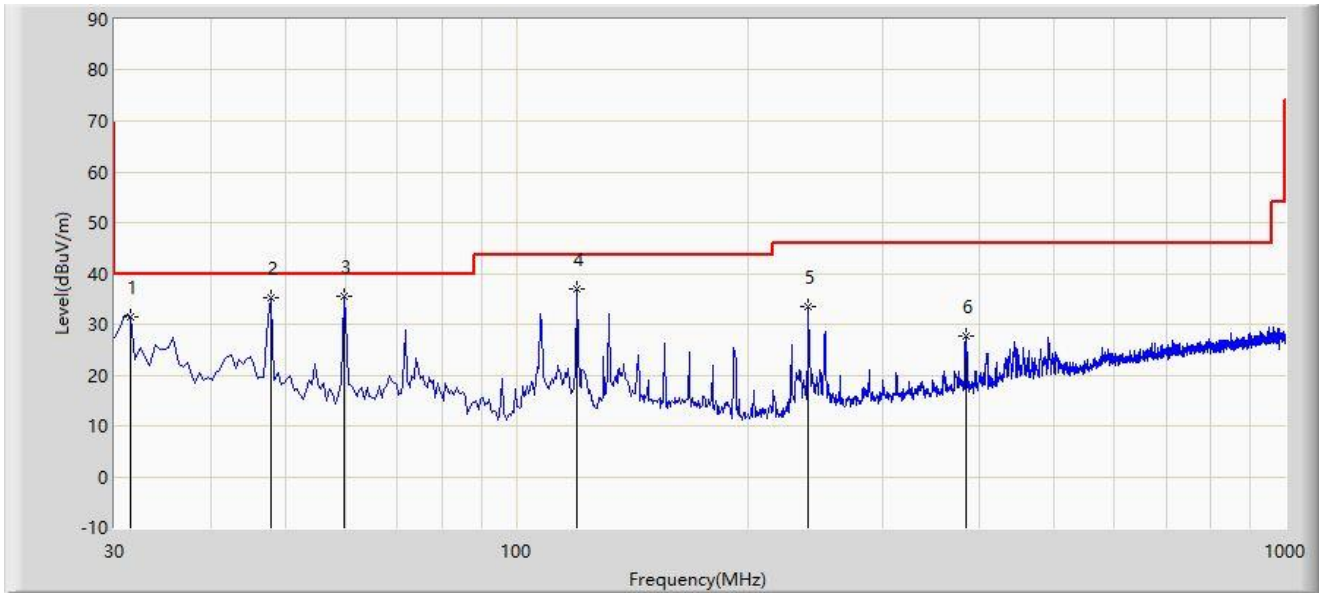
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

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

Note 5: 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: SIP-AC3	Test Date: 2023-05-10
Limit: FCC_Part15.209_RSE(3m)	Engineer: Mero Zhou
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		31.455	31.469	15.029	-8.531	40.000	16.439	PK
2		47.945	35.121	17.136	-4.879	40.000	17.985	PK
3	*	59.585	35.517	18.389	-4.483	40.000	17.128	PK
4		119.725	36.876	21.216	-6.624	43.500	15.660	PK
5		240.005	33.501	17.091	-12.499	46.000	16.411	PK
6		384.050	27.686	7.137	-18.314	46.000	20.549	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).

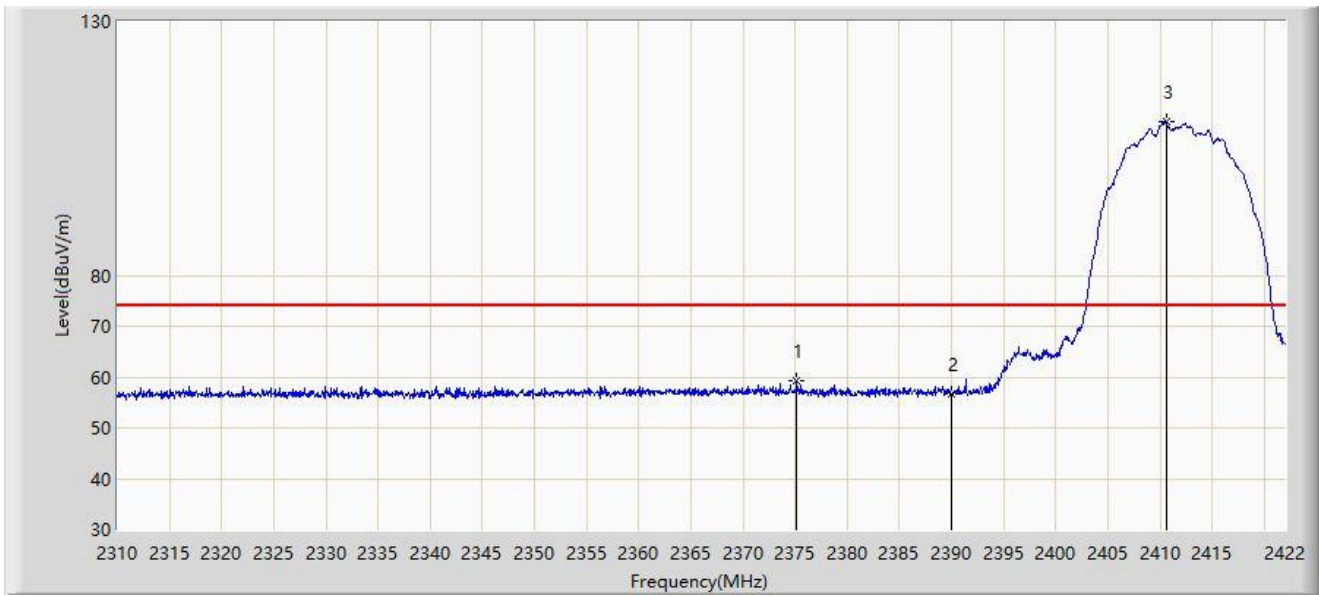
Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: 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.

A.7 Radiated Restricted Band Edge Test Result

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2412MHz	



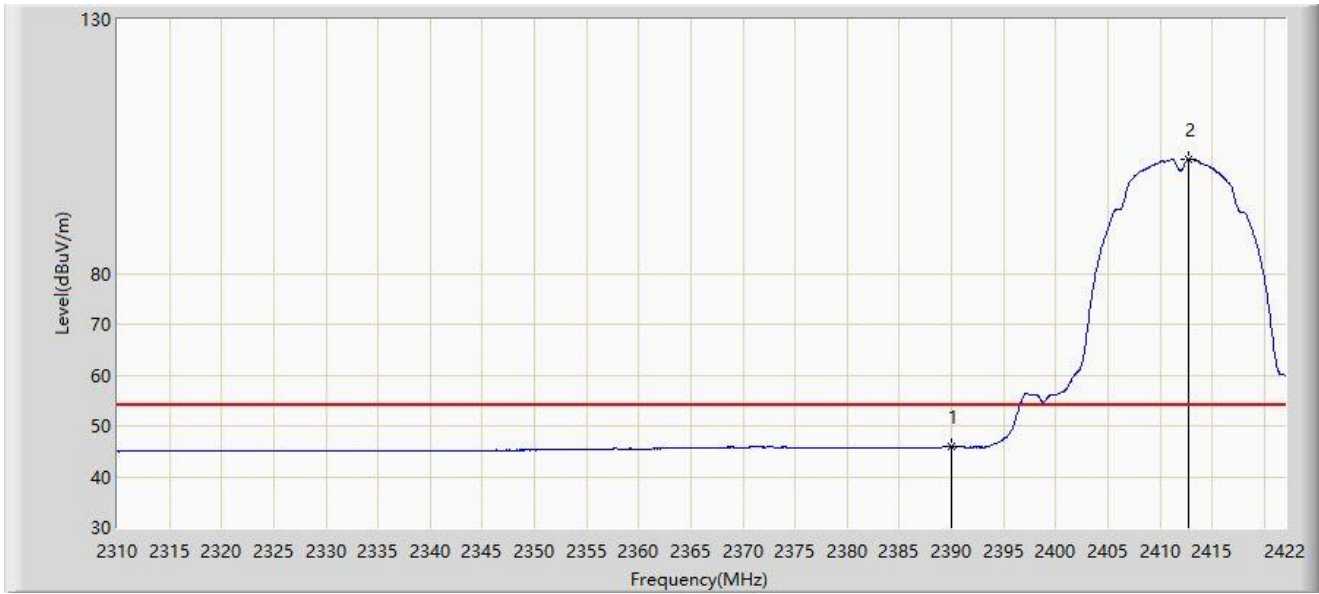
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2375.128	59.297	26.839	-14.703	74.000	32.458	PK
2		2390.000	56.707	24.324	-17.293	74.000	32.382	PK
3		2410.576	110.359	78.025	N/A	N/A	32.334	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2412MHz	



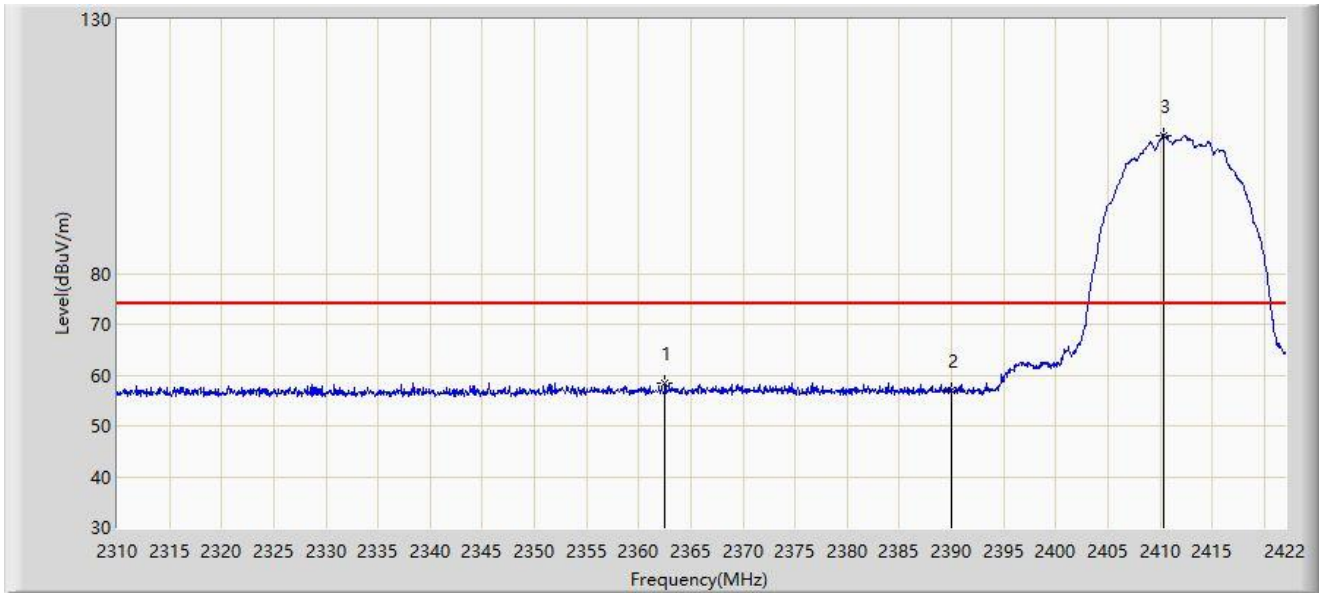
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	45.848	13.465	-8.152	54.000	32.382	AV
2		2412.704	102.533	70.198	N/A	N/A	32.335	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2412MHz	



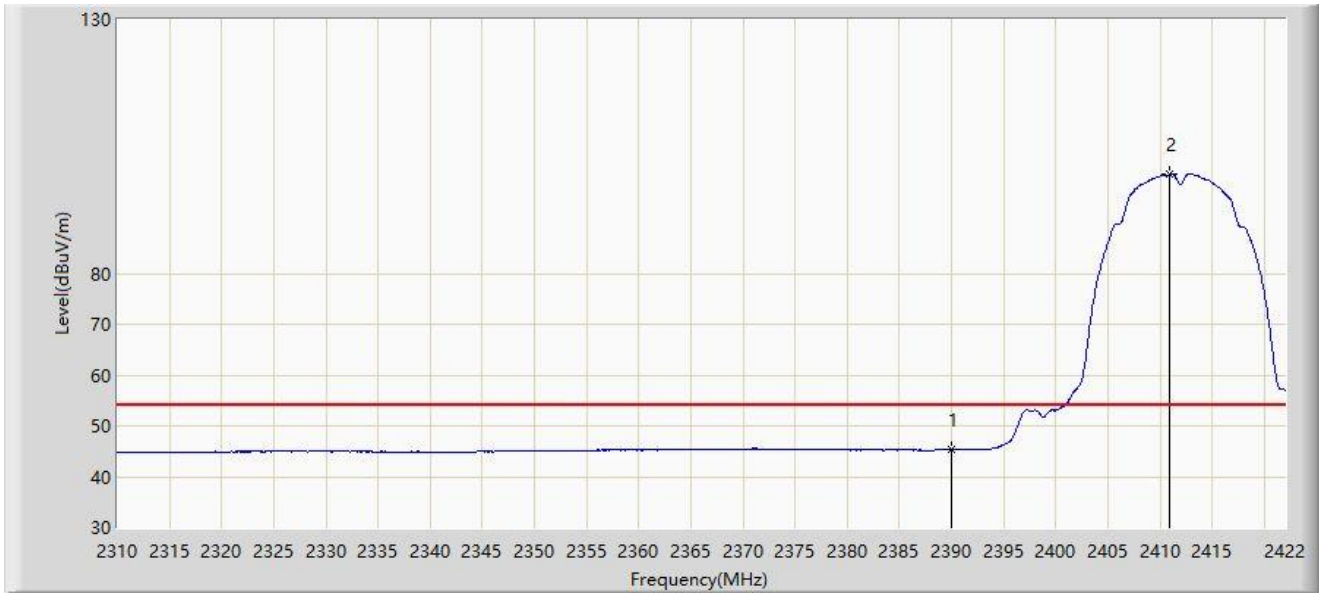
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2362.528	58.507	26.038	-15.493	74.000	32.468	PK
2		2390.000	56.816	24.433	-17.184	74.000	32.382	PK
3		2410.352	107.234	74.900	N/A	N/A	32.334	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2412MHz	



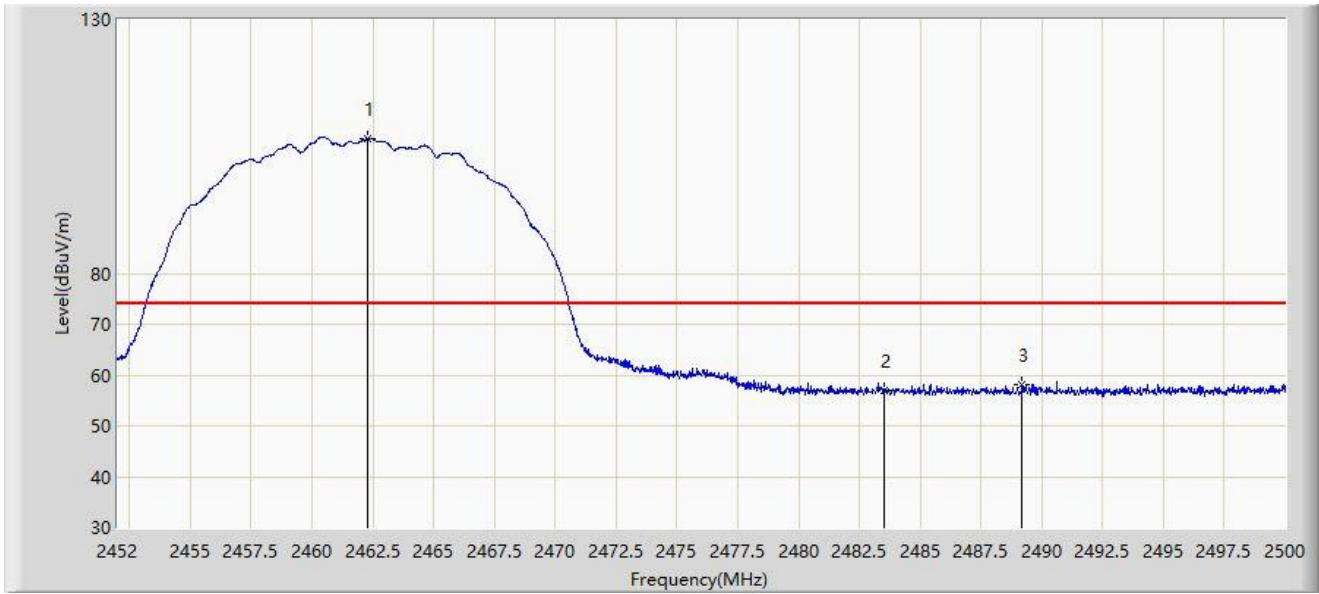
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	45.355	12.972	-8.645	54.000	32.382	AV
2		2410.968	99.491	67.158	N/A	N/A	32.333	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2462MHz	



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		2462.272	106.653	74.345	N/A	N/A	32.309	PK
2		2483.500	56.922	24.699	-17.078	74.000	32.222	PK
3	*	2489.176	58.141	25.900	-15.859	74.000	32.241	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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2462MHz	



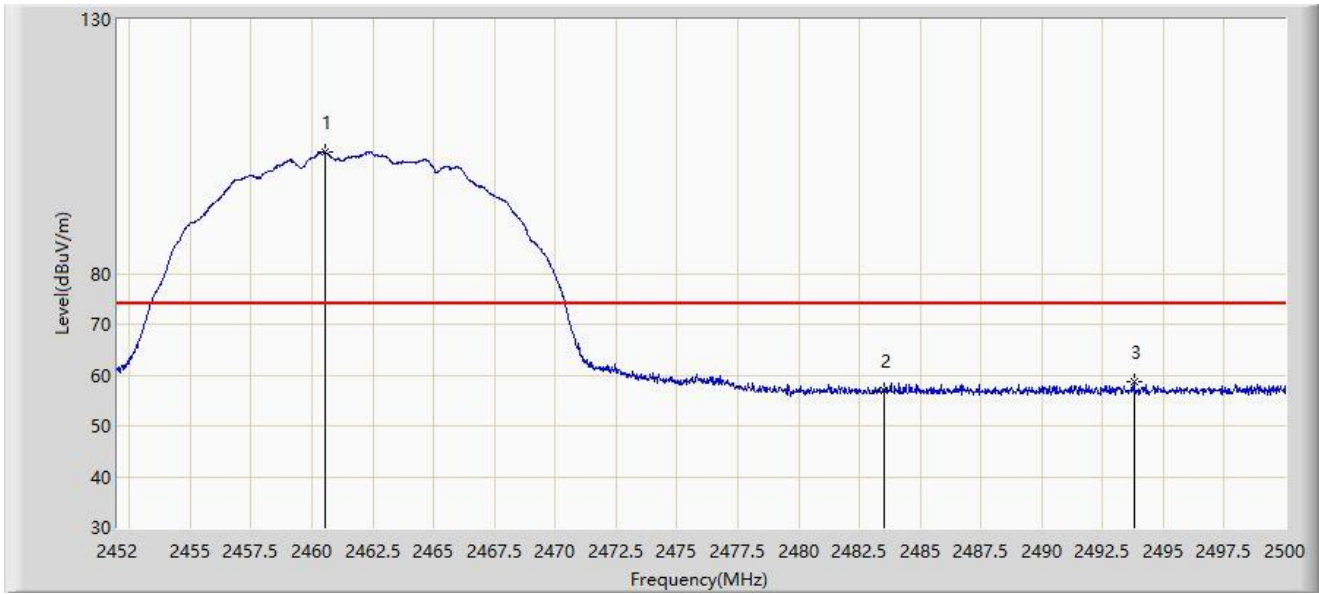
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2462.656	99.437	67.131	N/A	N/A	32.306	AV
2	*	2483.500	45.578	13.355	-8.422	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2462MHz	



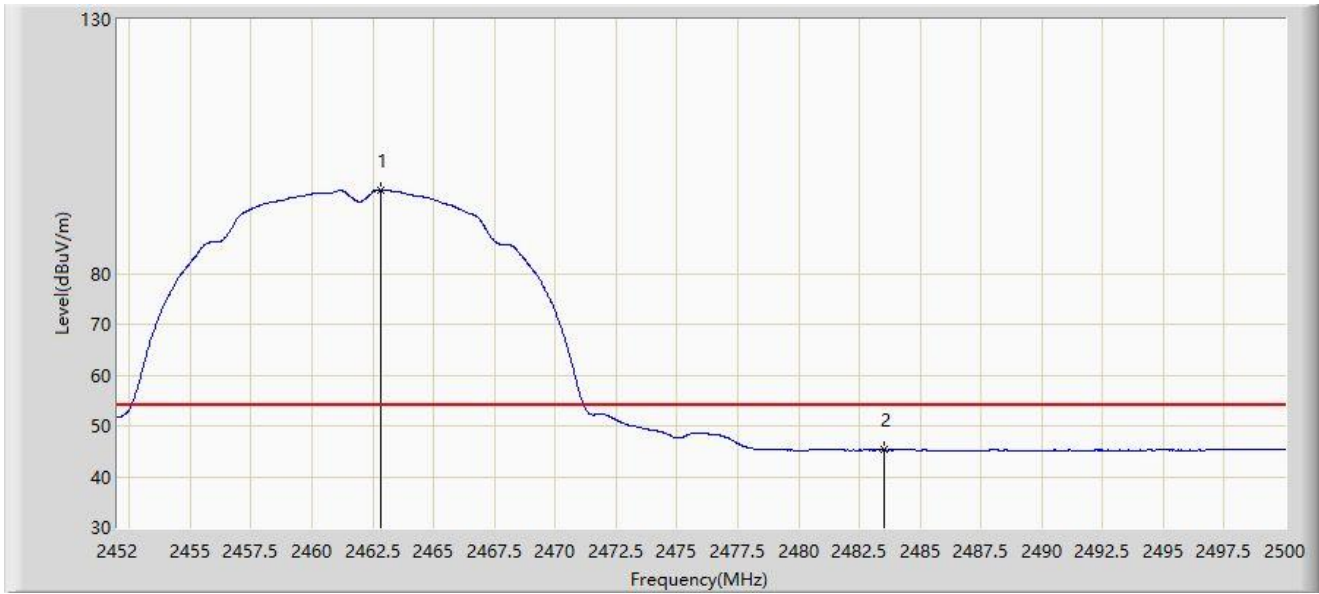
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2460.568	103.802	71.489	N/A	N/A	32.313	PK
2		2483.500	57.101	24.878	-16.899	74.000	32.222	PK
3	*	2493.784	58.680	26.424	-15.320	74.000	32.256	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11b at 2462MHz	



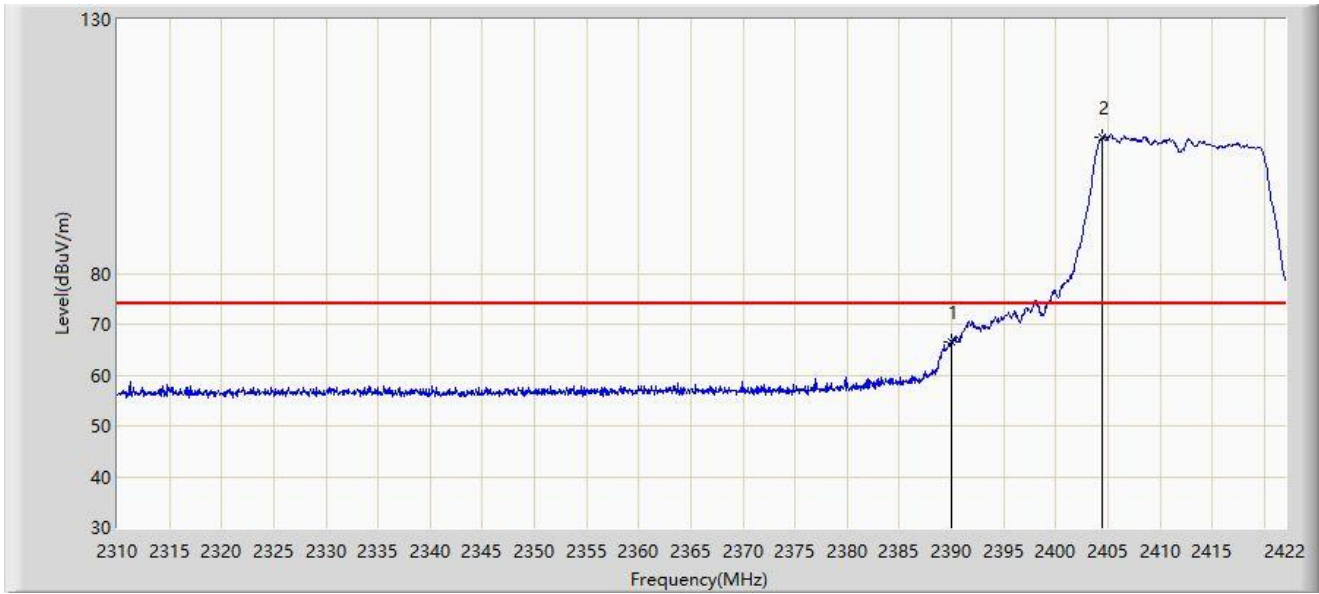
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2462.800	96.471	64.166	N/A	N/A	32.305	AV
2	*	2483.500	45.231	13.008	-8.769	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2412MHz	



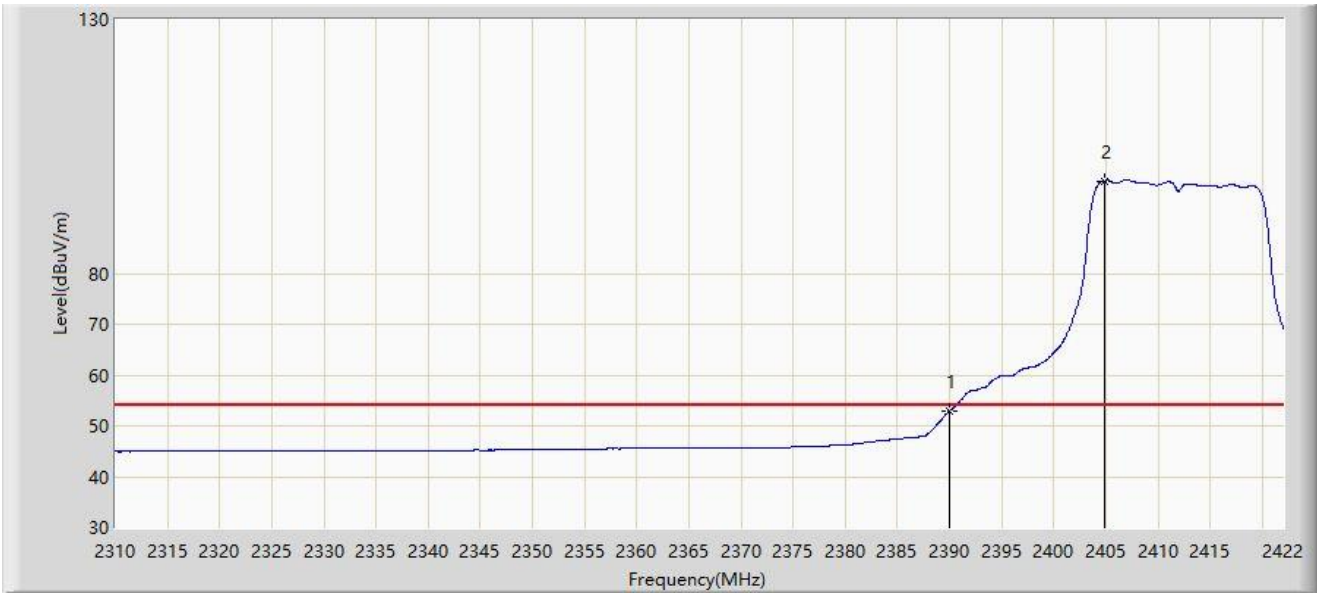
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	66.463	34.080	-7.537	74.000	32.382	PK
2		2404.472	106.884	74.541	N/A	N/A	32.344	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2412MHz	



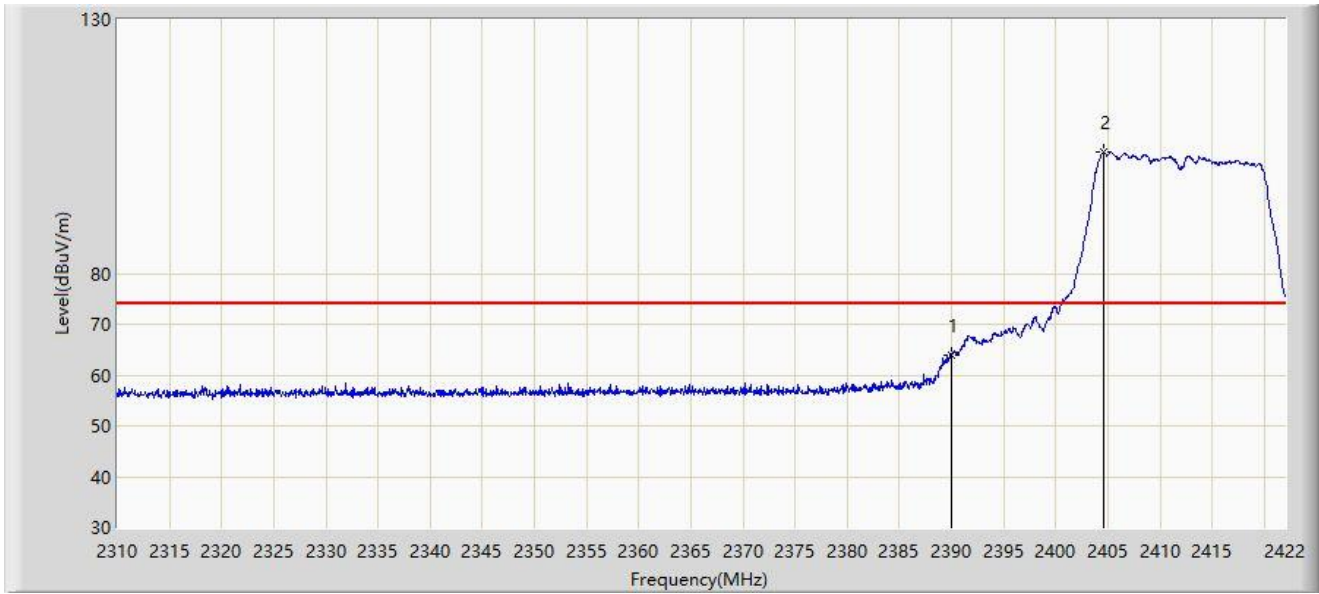
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	52.926	20.543	-1.074	54.000	32.382	AV
2		2404.864	98.221	65.878	N/A	N/A	32.343	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2412MHz	



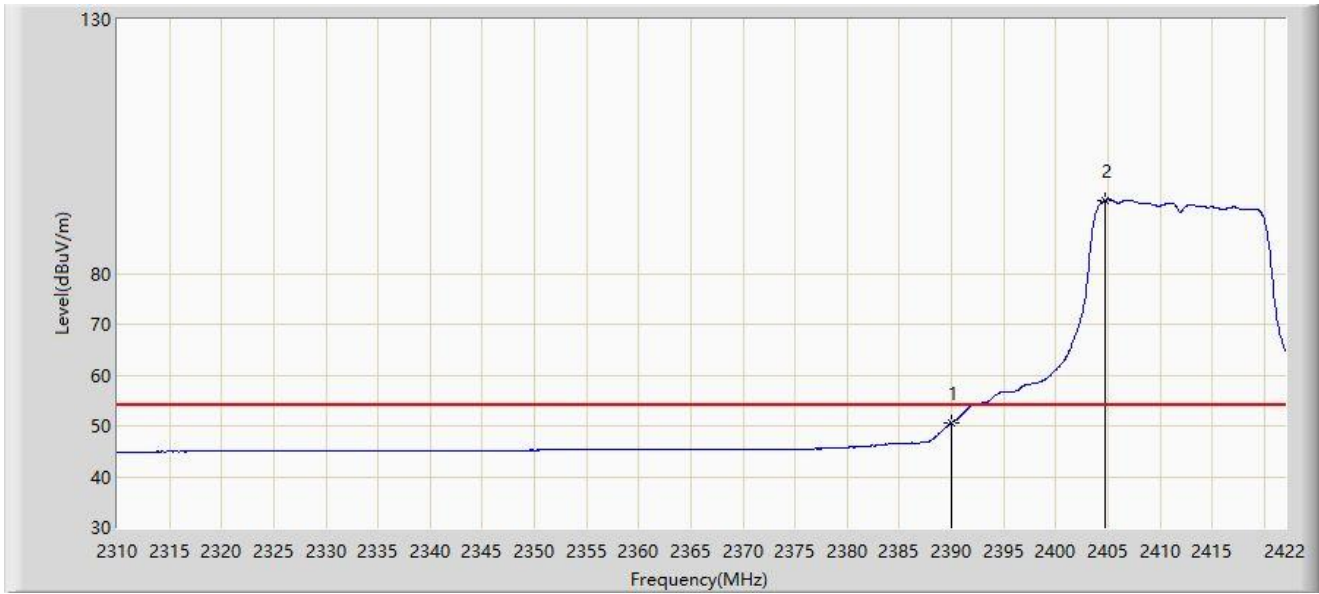
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	63.952	31.569	-10.048	74.000	32.382	PK
2		2404.528	103.824	71.481	N/A	N/A	32.343	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2412MHz	



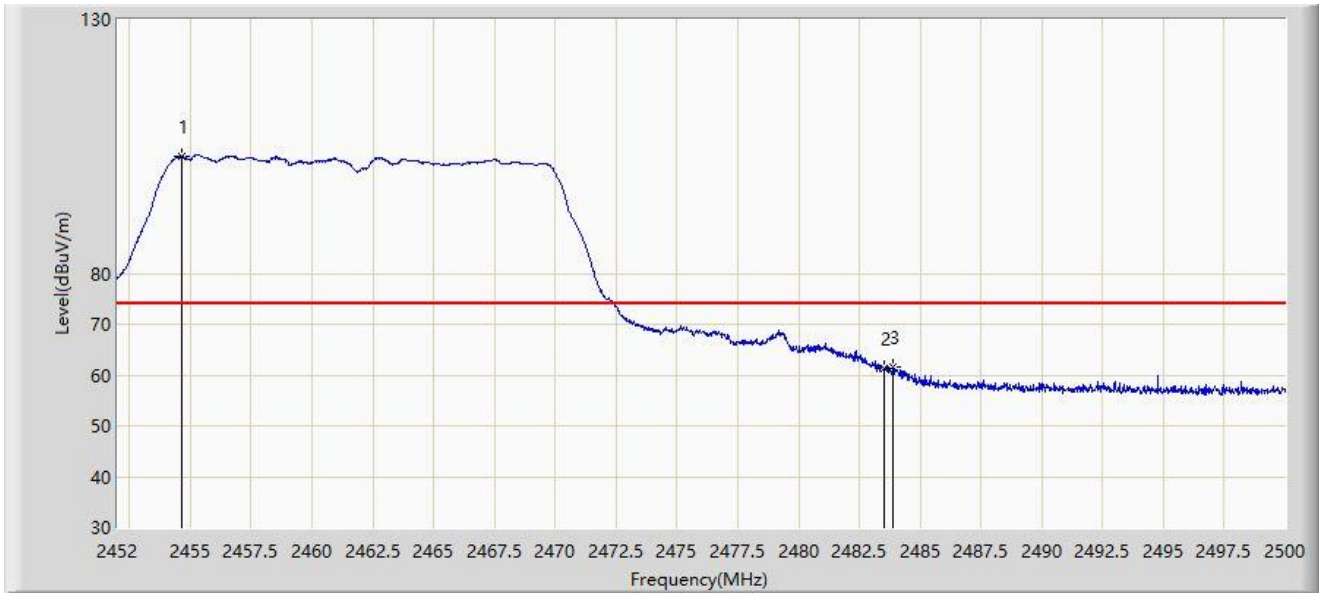
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	50.594	18.211	-3.406	54.000	32.382	AV
2		2404.752	94.462	62.119	N/A	N/A	32.343	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2462MHz	



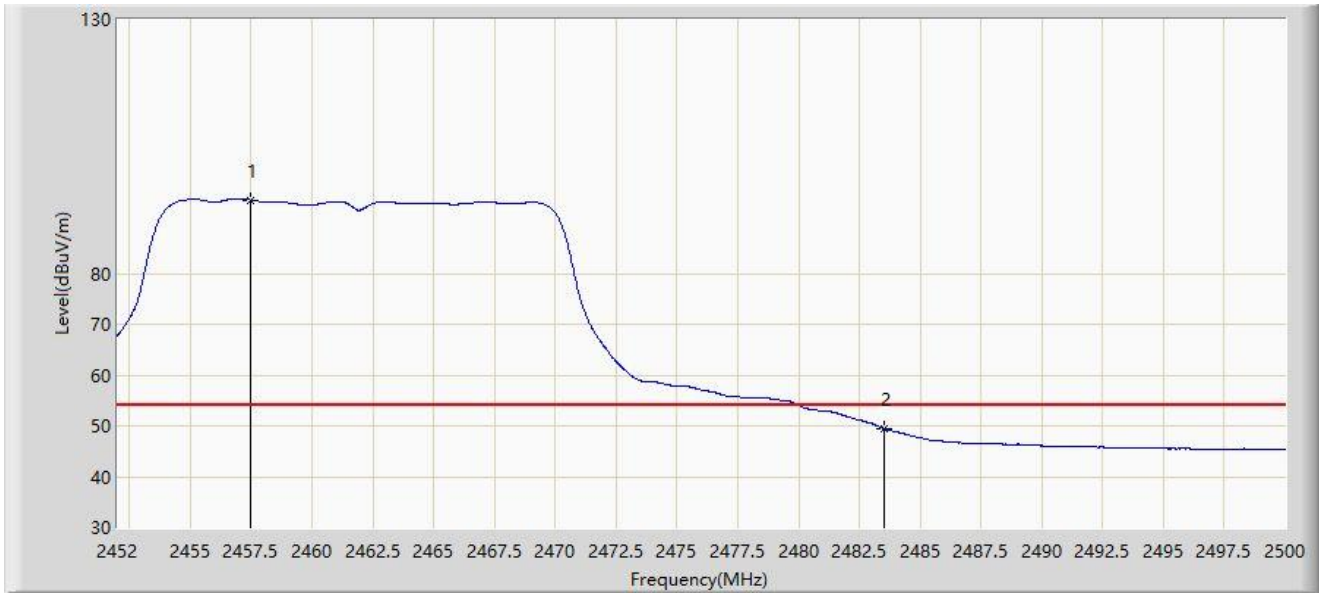
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2454.640	103.055	70.728	N/A	N/A	32.328	PK
2		2483.500	61.210	28.987	-12.790	74.000	32.222	PK
3	*	2483.896	61.707	29.483	-12.293	74.000	32.224	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2462MHz	



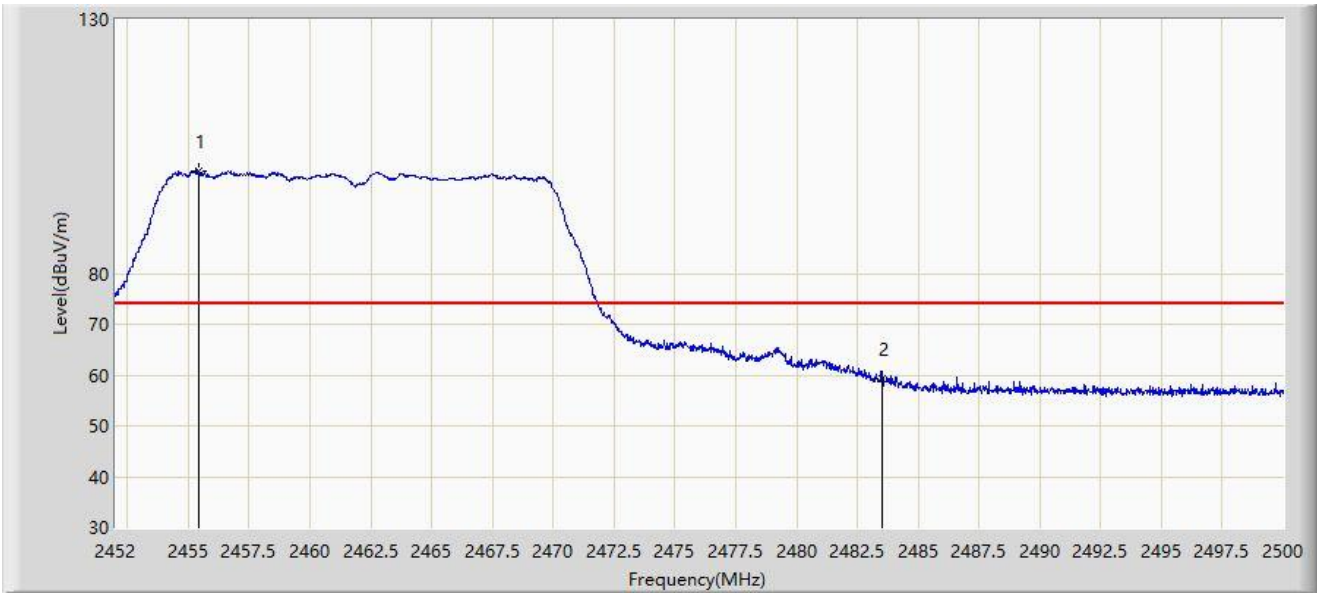
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2457.448	94.487	62.166	N/A	N/A	32.321	AV
2	*	2483.500	49.522	17.299	-4.478	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2462MHz	



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		2455.456	100.040	67.715	N/A	N/A	32.325	PK
2	*	2483.500	59.319	27.096	-14.681	74.000	32.222	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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11g at 2462MHz	



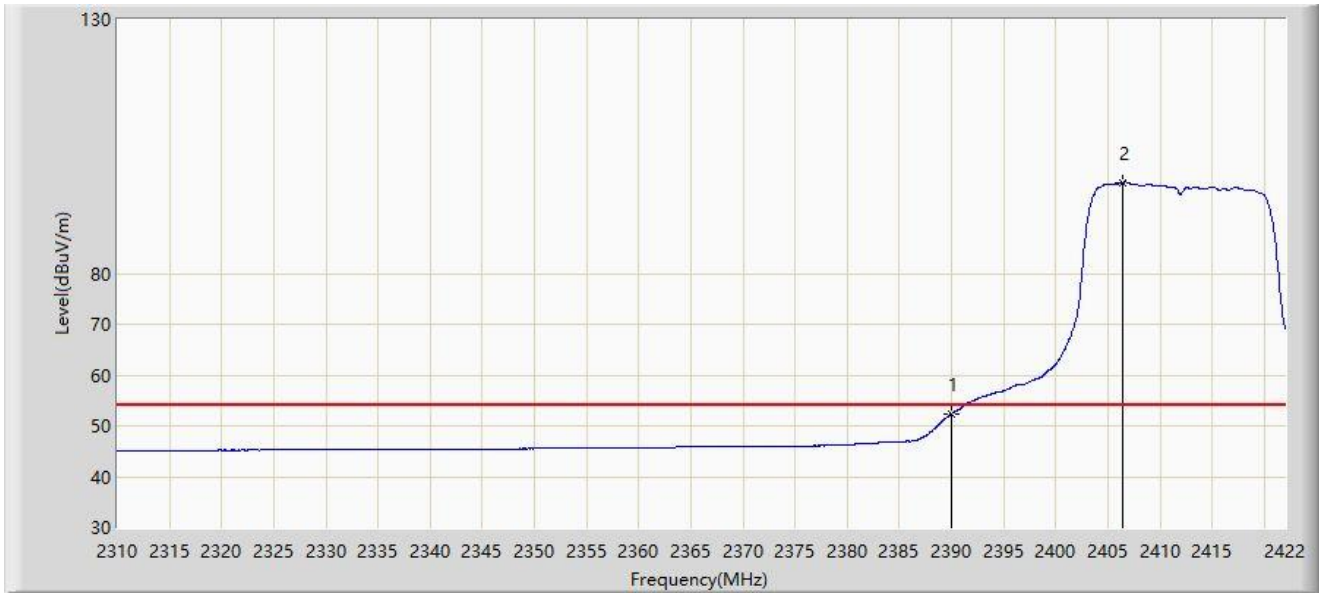
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2461.000	91.244	58.932	N/A	N/A	32.313	AV
2	*	2483.500	47.238	15.015	-6.762	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



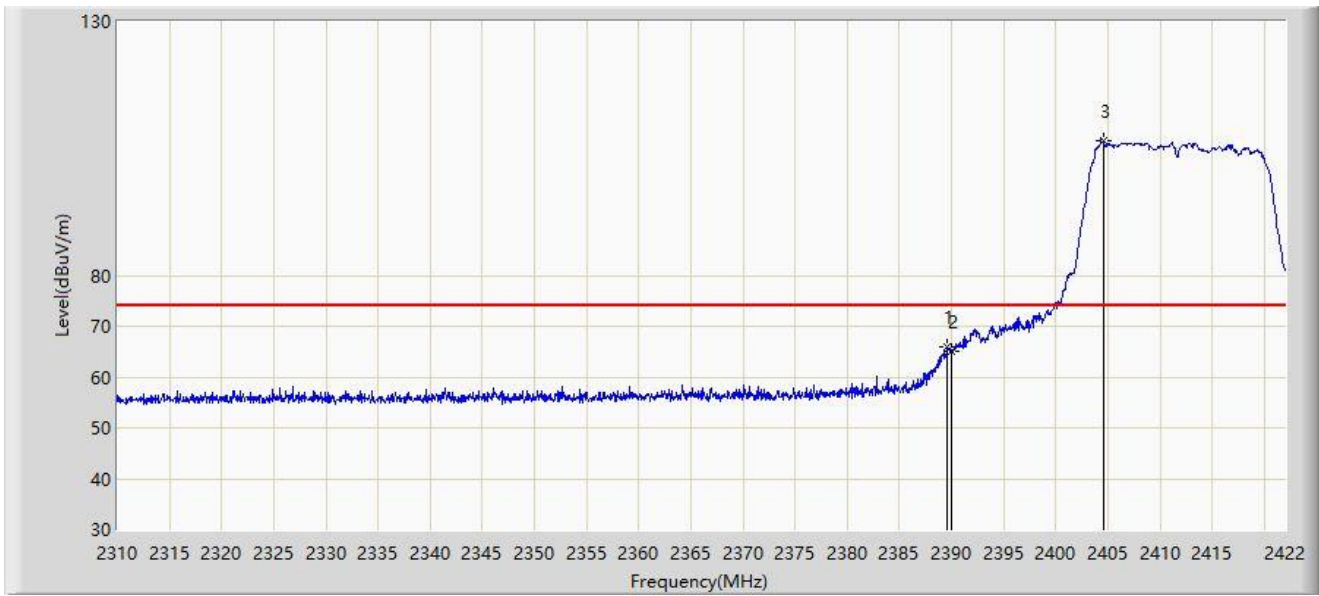
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	52.358	19.975	-1.642	54.000	32.382	AV
2		2406.376	97.886	65.546	N/A	N/A	32.340	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



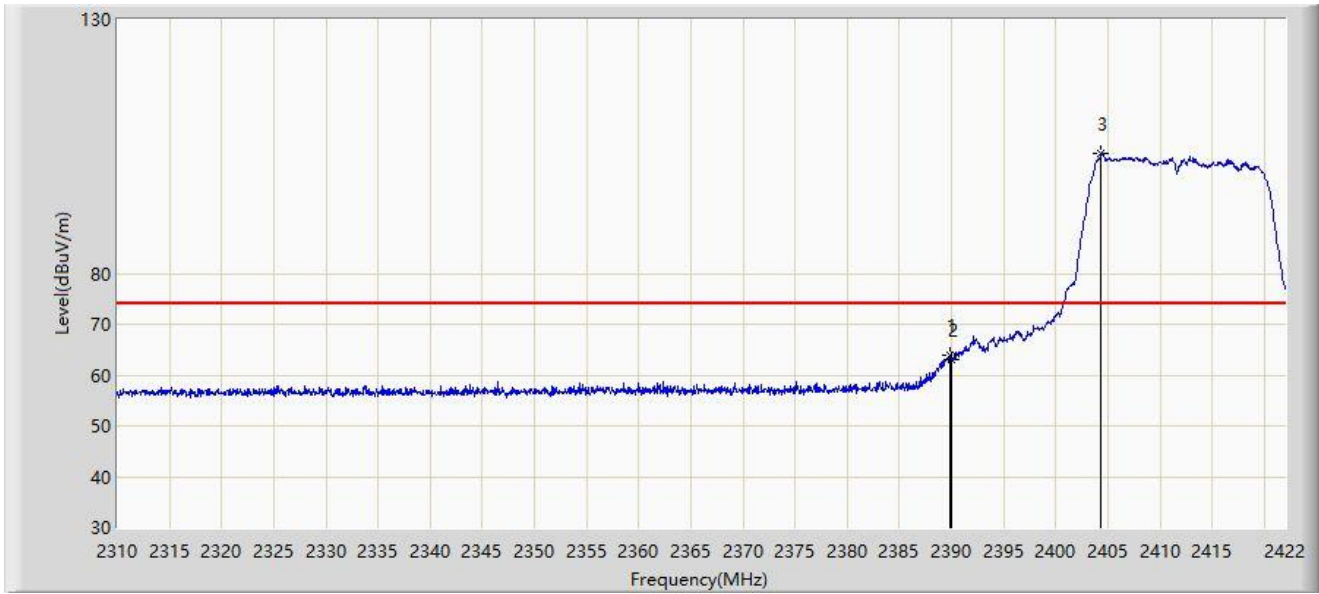
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2389.632	65.811	33.426	-8.189	74.000	32.385	PK
2		2390.000	65.206	32.823	-8.794	74.000	32.382	PK
3		2404.528	106.647	74.304	N/A	N/A	32.343	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



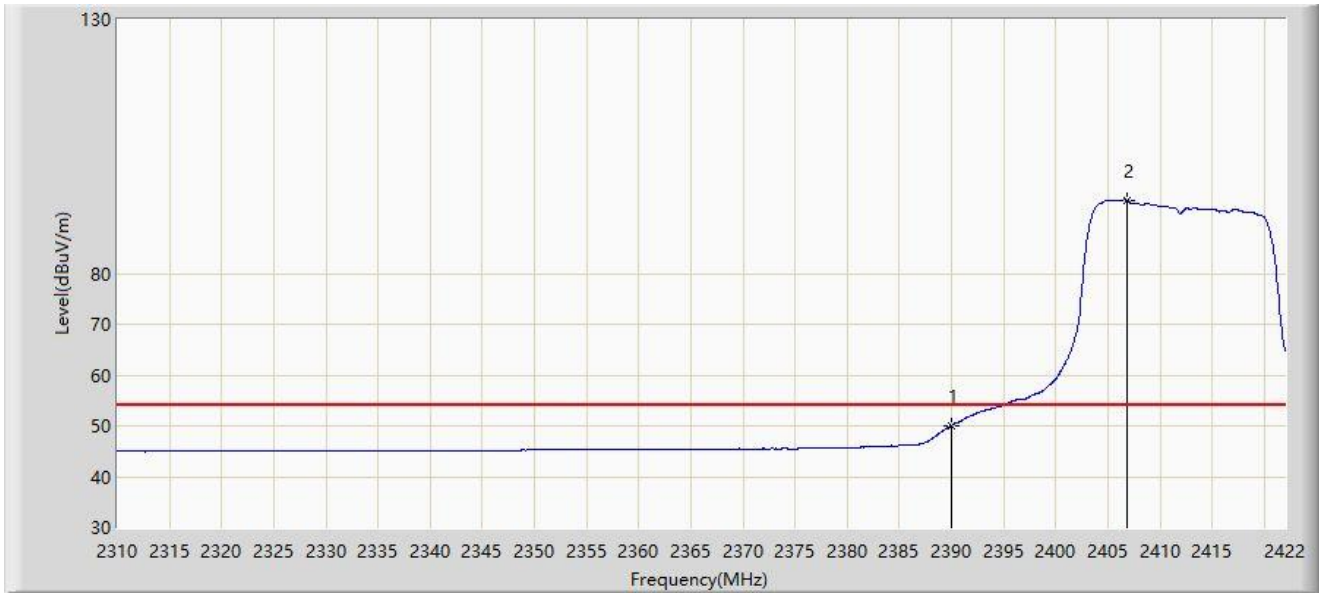
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.800	63.785	31.401	-10.215	74.000	32.384	PK
2		2390.000	63.159	30.776	-10.841	74.000	32.382	PK
3		2404.360	103.515	71.171	N/A	N/A	32.344	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



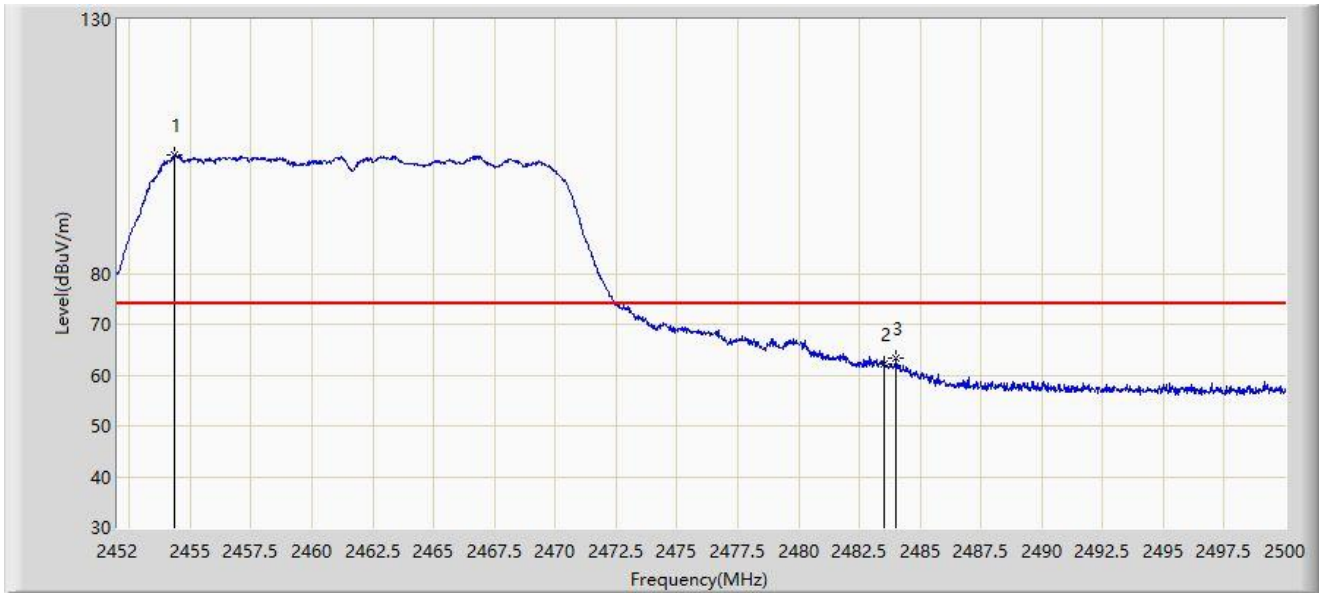
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	50.075	17.692	-3.925	54.000	32.382	AV
2		2406.824	94.451	62.111	N/A	N/A	32.339	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



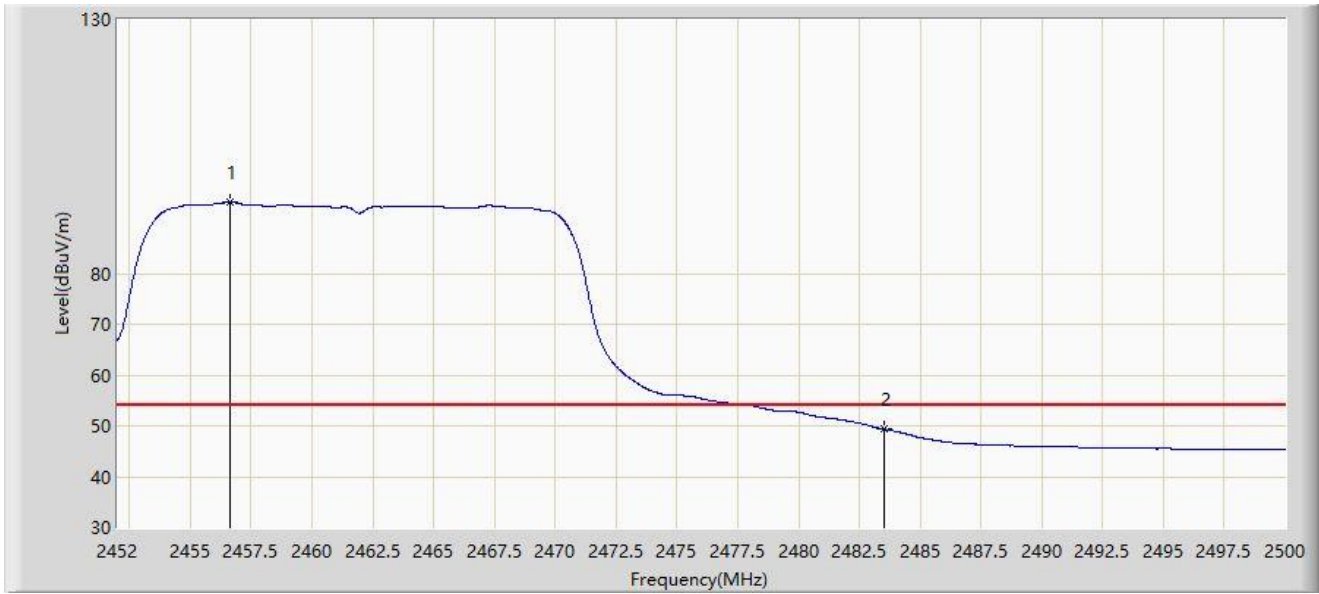
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2454.352	103.349	71.021	N/A	N/A	32.328	PK
2		2483.500	62.314	30.091	-11.686	74.000	32.222	PK
3	*	2484.016	63.203	30.979	-10.797	74.000	32.224	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



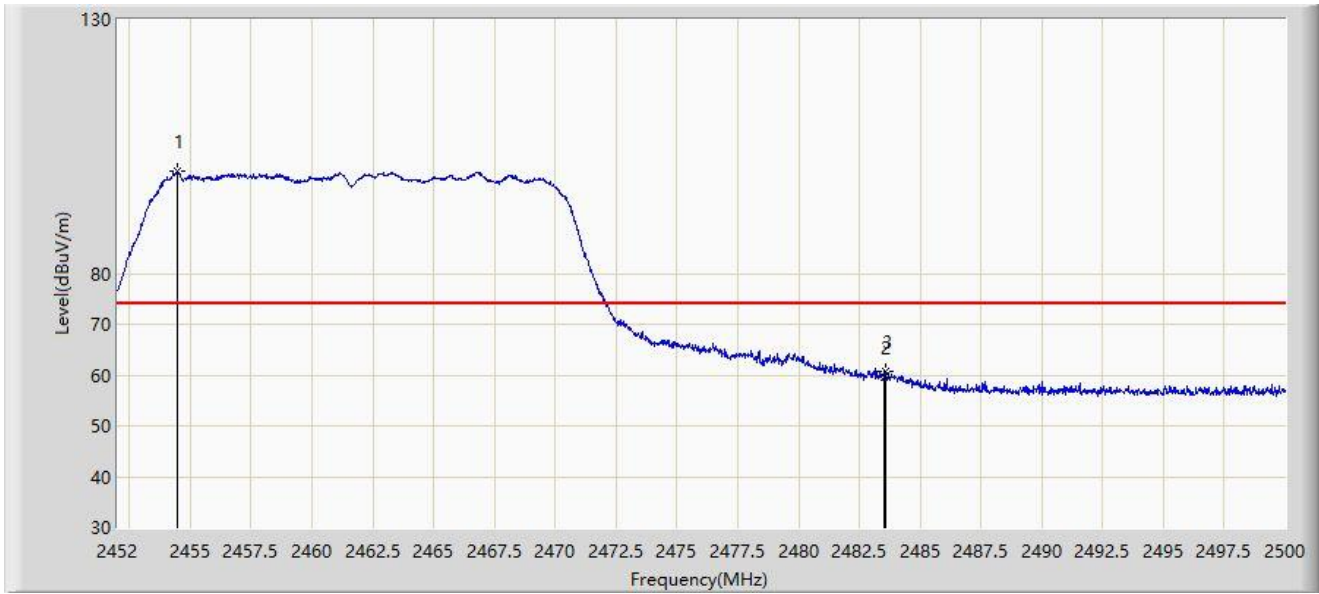
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2456.632	94.004	61.681	N/A	N/A	32.322	AV
2	*	2483.500	49.393	17.170	-4.607	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



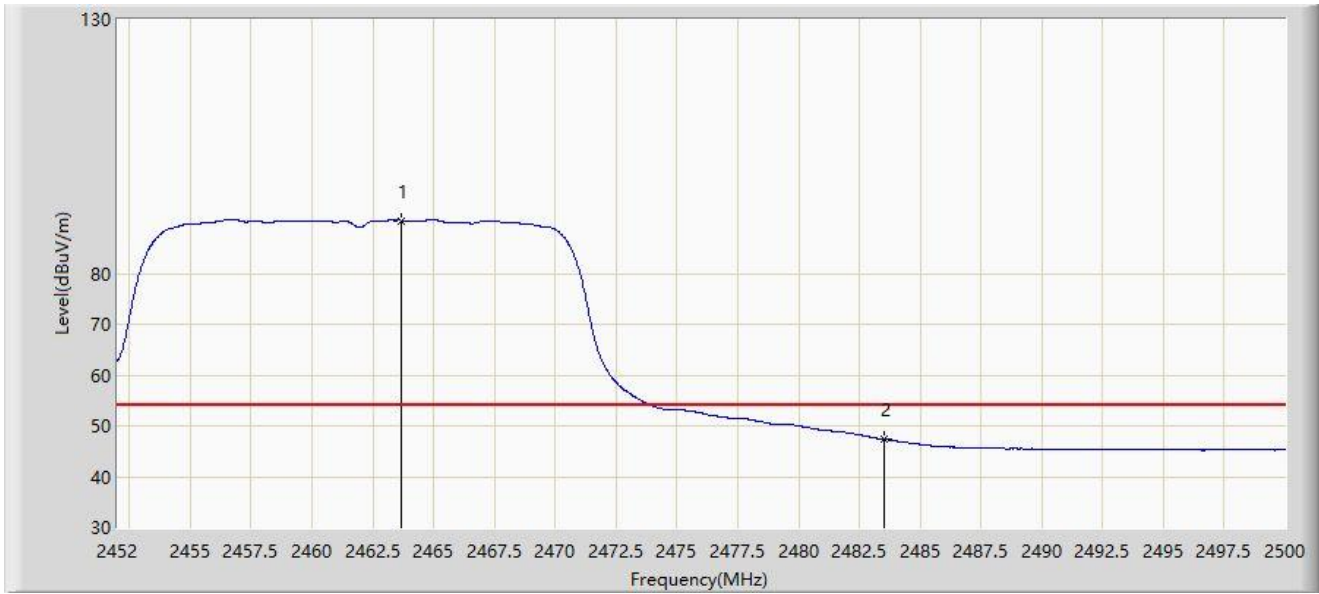
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2454.496	100.151	67.823	N/A	N/A	32.328	PK
2		2483.500	59.466	27.243	-14.534	74.000	32.222	PK
3	*	2483.560	60.698	28.475	-13.302	74.000	32.223	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



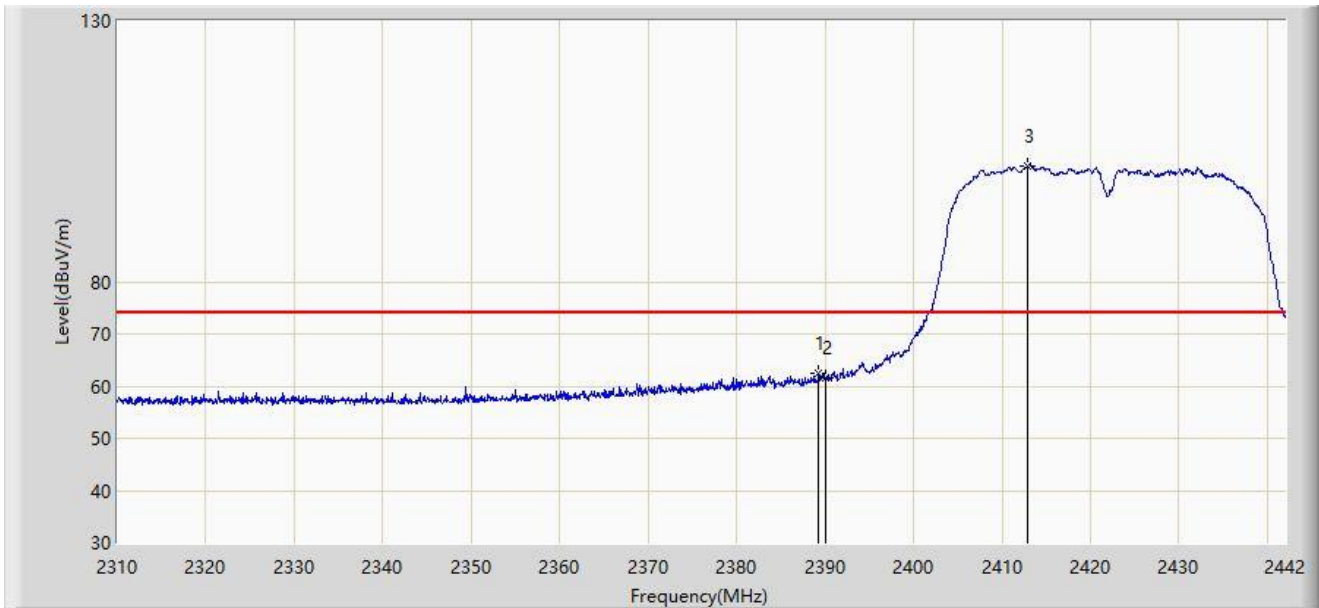
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2463.688	90.414	58.114	N/A	N/A	32.300	AV
2	*	2483.500	47.431	15.208	-6.569	54.000	32.222	AV

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).

Site: SIP-AC2	Time: 2023/06/14 - 23:29
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2422MHz	



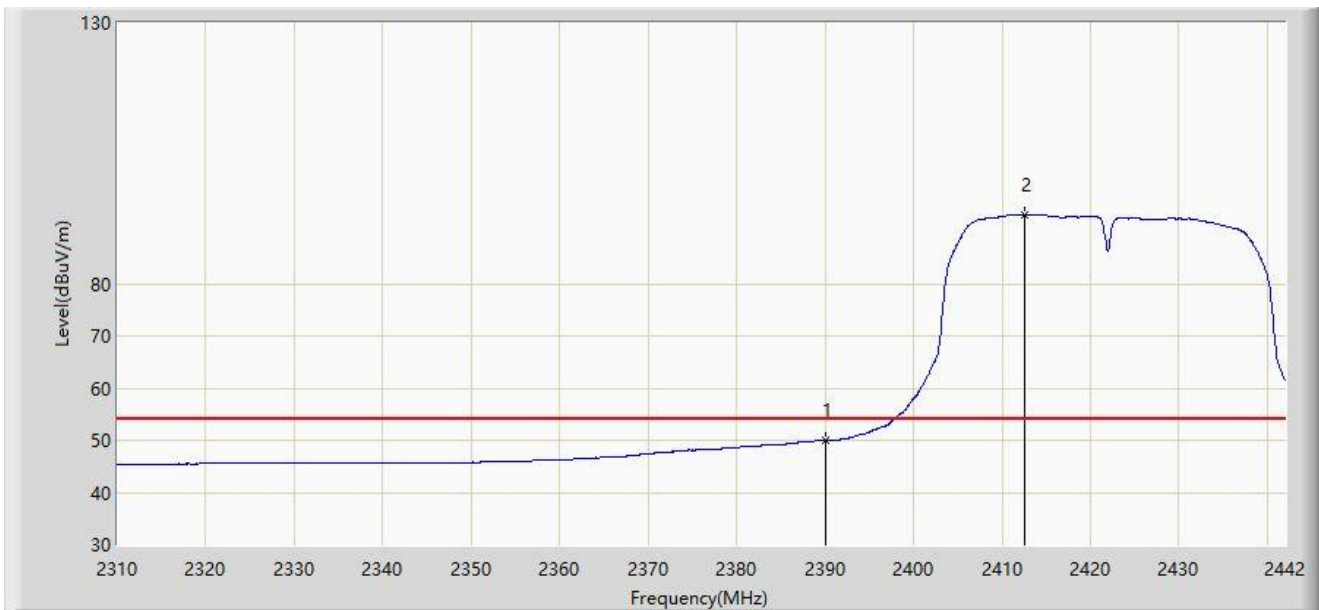
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2389.266	62.452	29.304	-11.548	74.000	33.148	PK
2		2390.000	61.560	28.412	-12.440	74.000	33.148	PK
3		2412.960	102.311	69.082	N/A	N/A	33.229	PK

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).

Site: SIP-AC2	Time: 2023/06/14 - 23:39
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2422MHz	



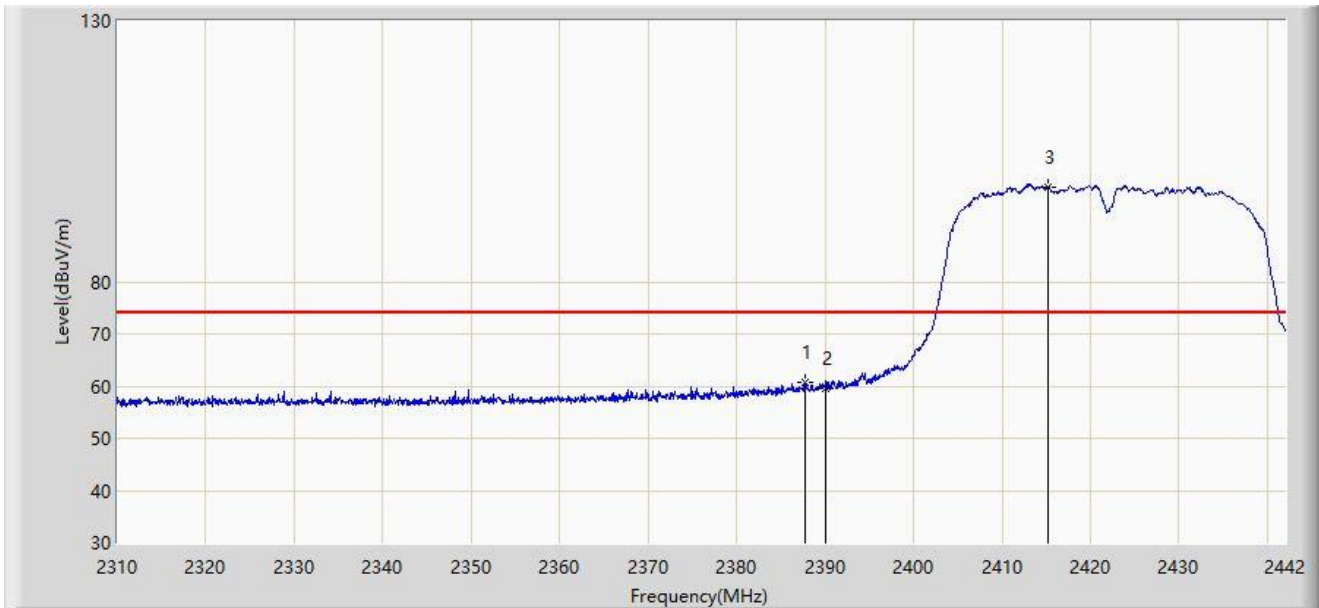
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	50.070	16.922	-3.930	54.000	33.148	AV
2		2412.564	93.299	60.072	N/A	N/A	33.227	AV

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).

Site: SIP-AC2	Time: 2023/06/14 - 23:48
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2422MHz	



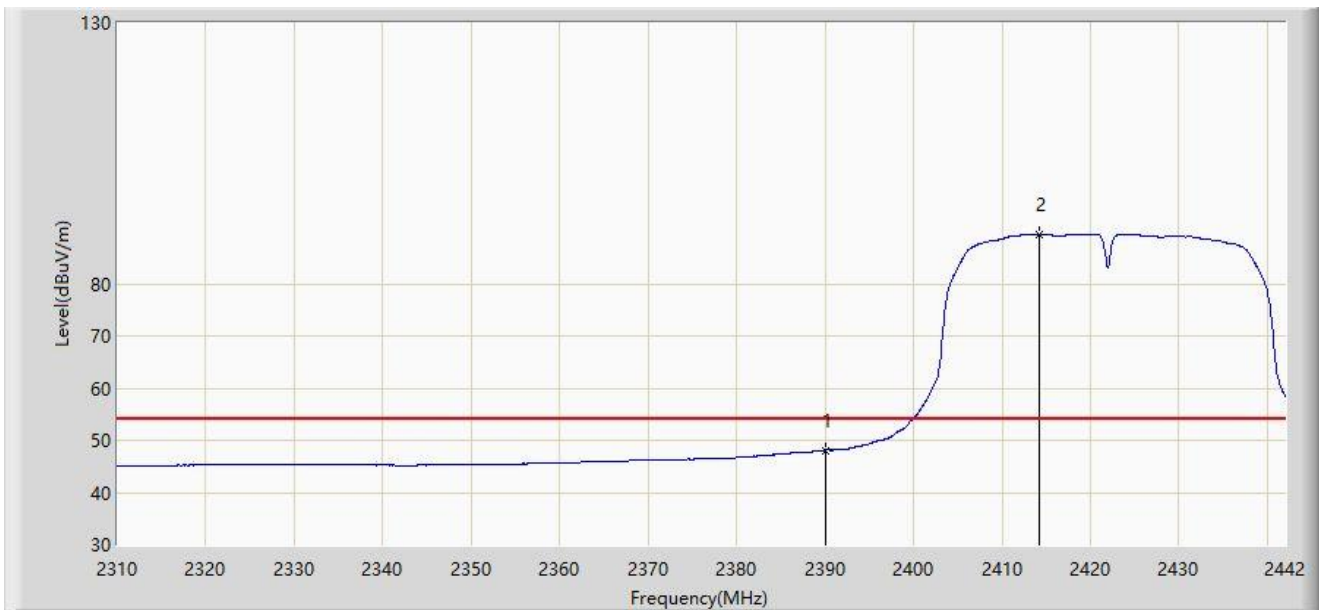
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2387.814	60.636	27.489	-13.364	74.000	33.147	PK
2		2390.000	59.430	26.282	-14.570	74.000	33.148	PK
3		2415.270	98.168	64.926	N/A	N/A	33.243	PK

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).

Site: SIP-AC2	Time: 2023/06/14 - 23:53
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2422MHz	



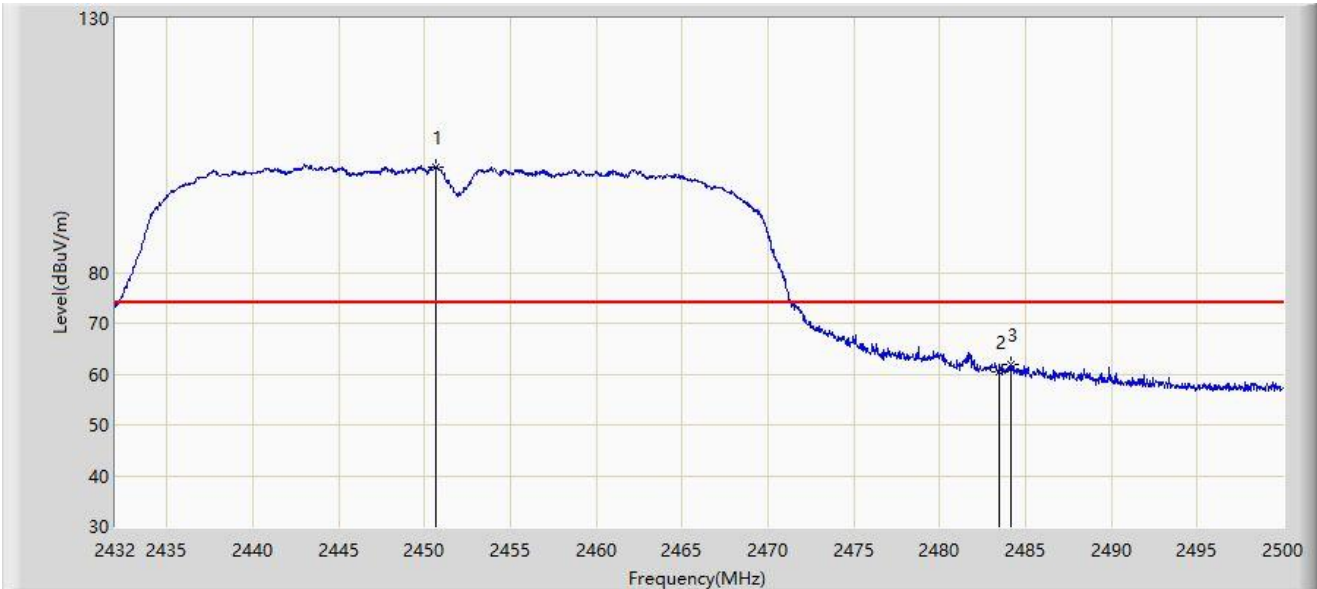
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1	*	2390.000	48.107	14.959	-5.893	54.000	33.148	AV
2		2414.214	89.484	56.248	N/A	N/A	33.236	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2452MHz	



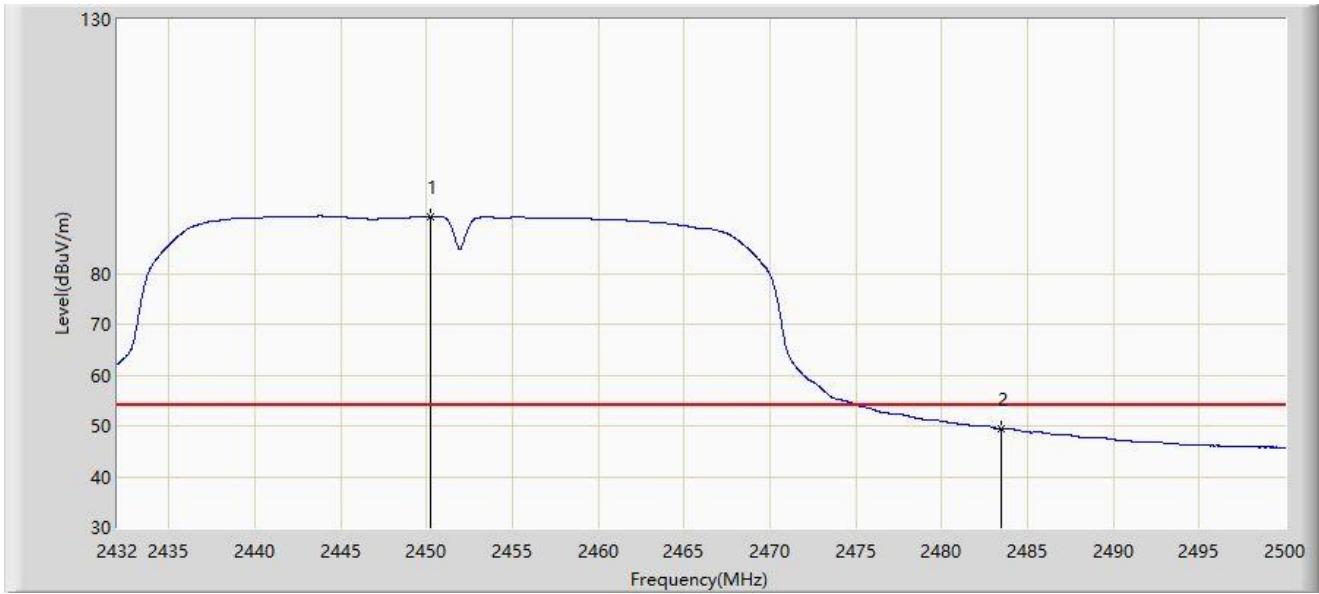
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2450.700	100.812	68.475	N/A	N/A	32.336	PK
2		2483.500	60.432	28.209	-13.568	74.000	32.222	PK
3	*	2484.122	61.747	29.522	-12.253	74.000	32.225	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Horizontal
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2452MHz	



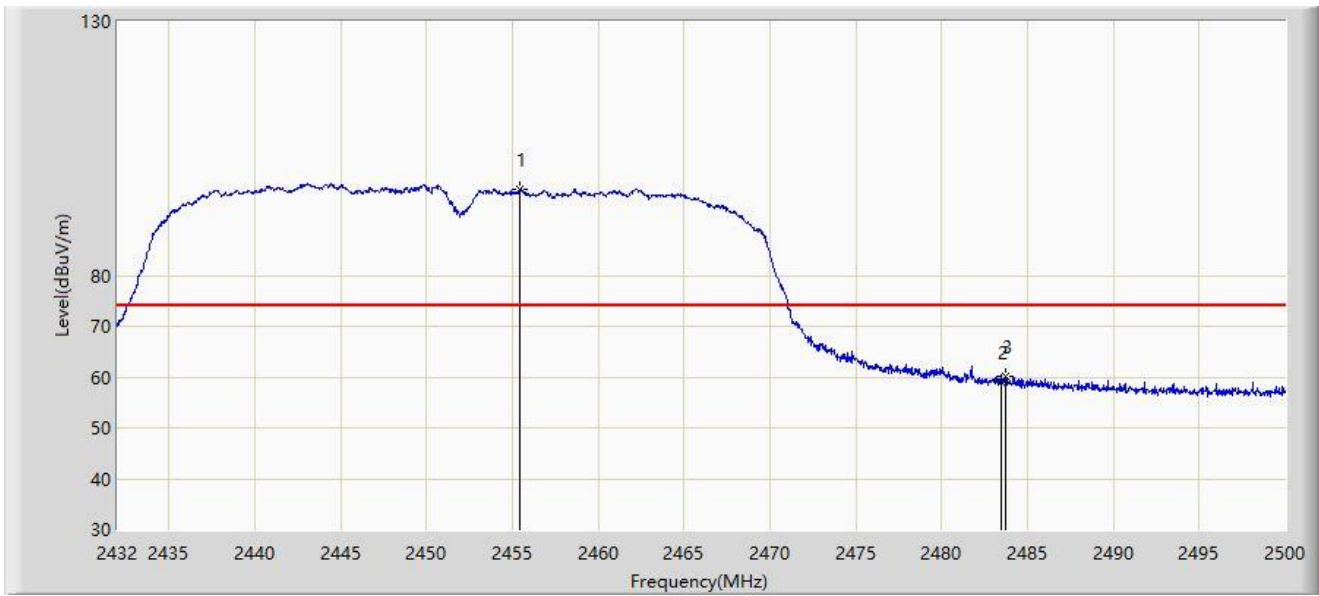
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2450.258	91.235	58.897	N/A	N/A	32.338	AV
2	*	2483.500	49.427	17.204	-4.573	54.000	32.222	AV

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2452MHz	



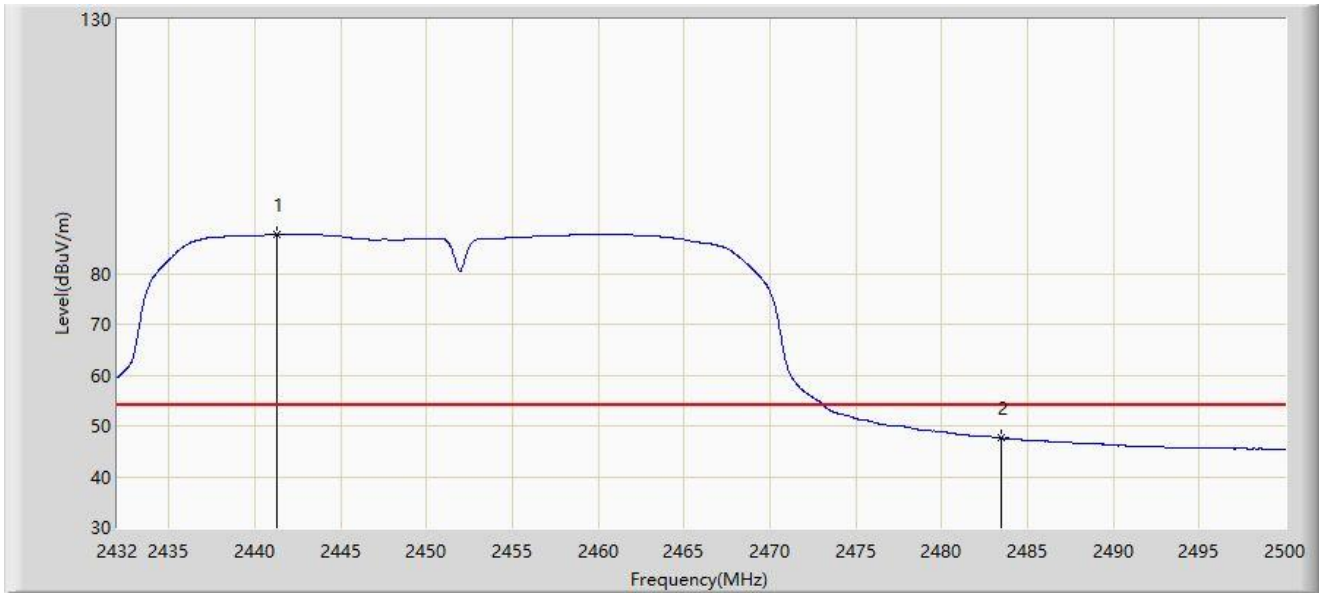
No	Mark	Frequency (MHz)	Measure Level (dB μ V/m)	Reading Level (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Factor (dB/m)	Type
1		2455.460	96.938	64.613	N/A	N/A	32.325	PK
2		2483.500	58.928	26.705	-15.072	74.000	32.222	PK
3	*	2483.714	60.185	27.962	-13.815	74.000	32.223	PK

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).

Site: SIP-AC2	Test Date: 2023-05-05
Limit: FCC_2.4G_RE(3m)	Engineer: Mero Zhou
Probe: BBHA 9120D_02042_1-18GHz	Polarity: Vertical
EUT: Smart Installation Tool	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at 2452MHz	



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		2441.282	87.647	55.296	N/A	N/A	32.351	AV
2	*	2483.500	47.568	15.345	-6.432	54.000	32.222	AV

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).

A.8 AC Conducted Emissions Test Result

This device is powered by battery in actual use. Therefore, this requirement is not applicable.

Appendix B – Test Setup Photograph

Refer to “2304RSU026-UT” file.

Appendix C – EUT Photograph

Refer to “2304RSU026-UE” file.

_____ The End _____