6.12 Radiated emissions

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	KDB 789033 D02 II G
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

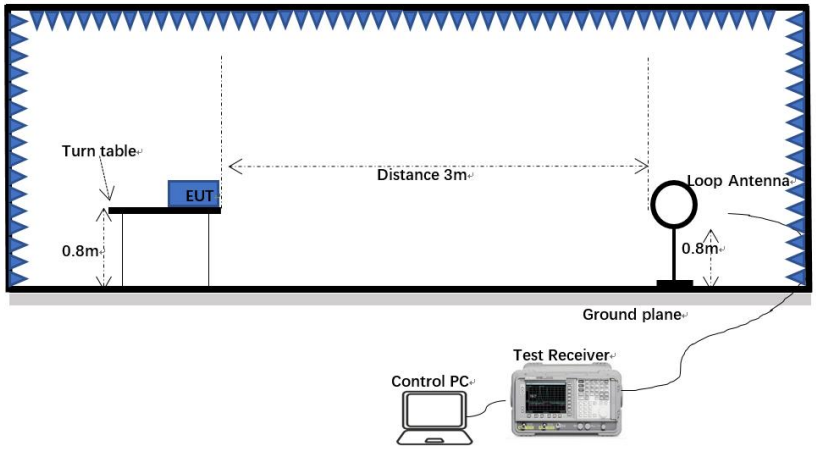
6.12.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

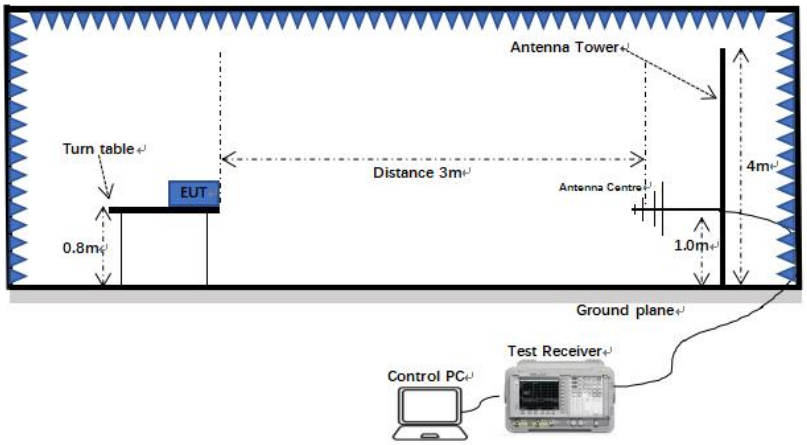
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.12.2 Test setup

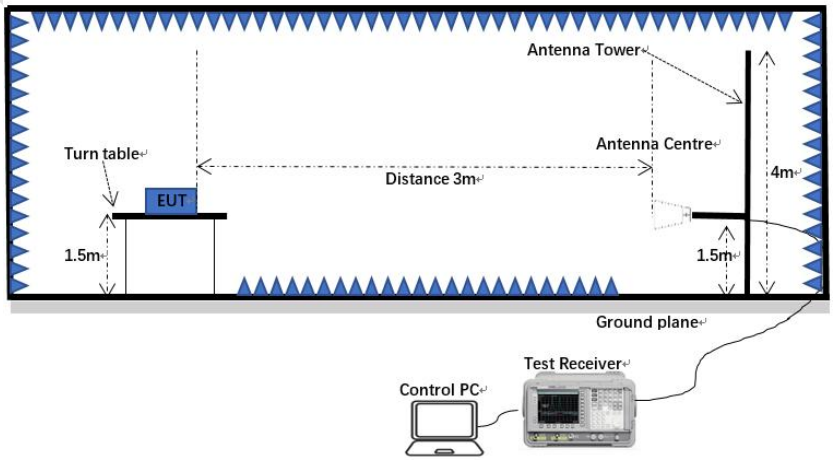
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.12.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 40GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

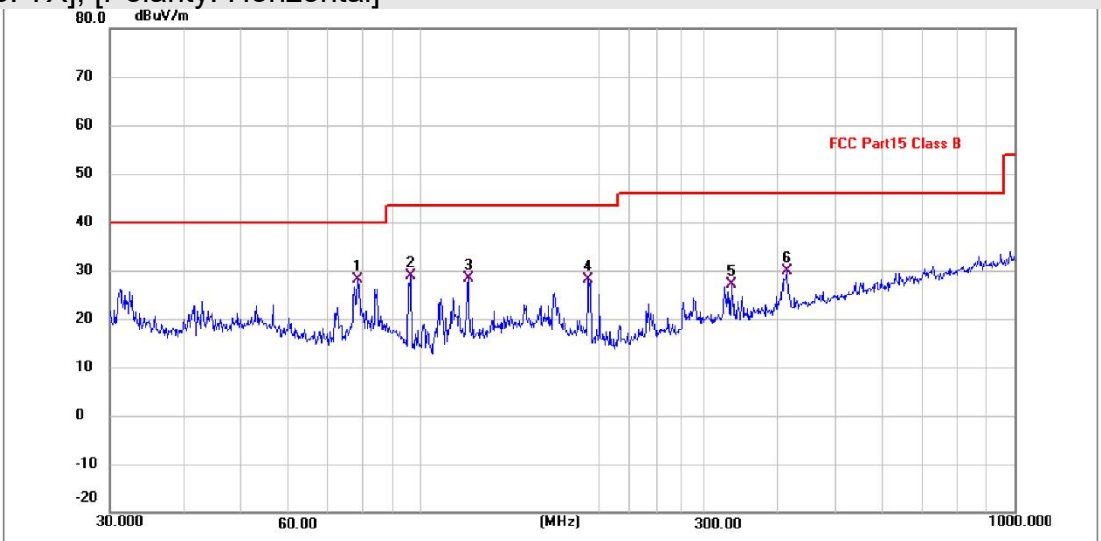
Level (dBuV) = Reading (dBuV) + Factor (dB/m)

6.12.4 Test data

Below 1GHz Band 1

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax40 mode low channel which it is worse case.

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band1-TX
Note:

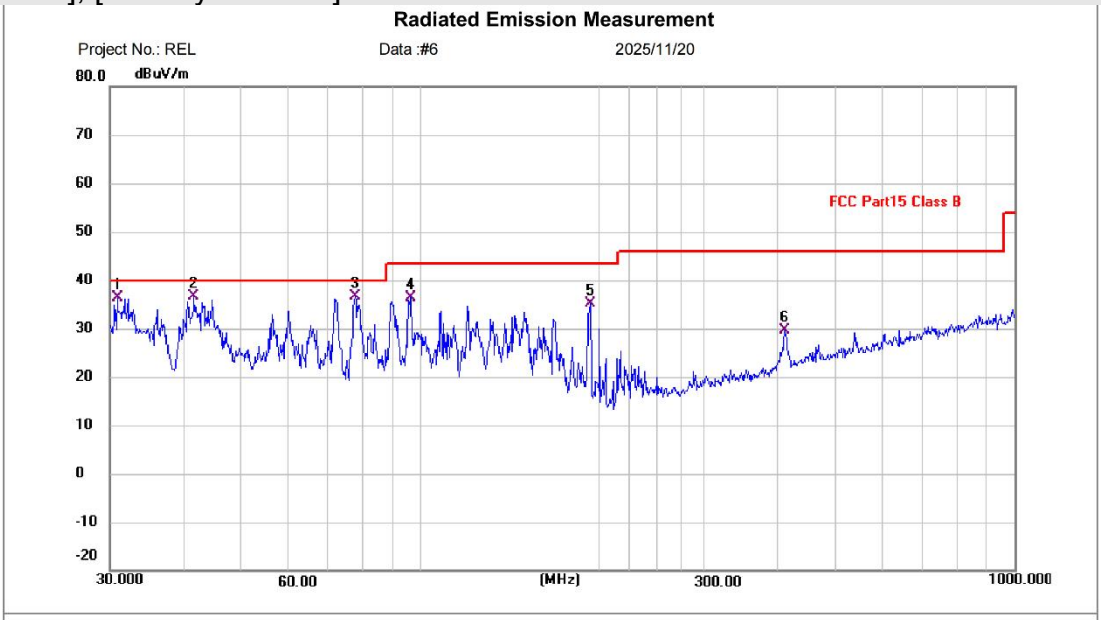
Polarization: *Horizontal*
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	78.4133	12.56	15.53	28.09	40.00	-11.91	QP	P	
2	96.4362	13.24	15.55	28.79	43.50	-14.71	QP	P	
3	120.2766	10.00	18.39	28.39	43.50	-15.11	QP	P	
4	191.7450	11.30	16.91	28.21	43.50	-15.29	QP	P	
5	333.6867	5.66	21.52	27.18	46.00	-18.82	QP	P	
6	413.2706	6.66	23.27	29.93	46.00	-16.07	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band1-TX
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.8535	48.43	-12.16	36.27	40.00	-3.73	QP	P	
2	41.5670	17.08	19.65	36.73	40.00	-3.27	QP	P	
3 *	77.5928	21.06	15.69	36.75	40.00	-3.25	QP	P	
4	96.0986	20.88	15.52	36.40	43.50	-7.10	QP	P	
5	193.0945	18.24	16.77	35.01	43.50	-8.49	QP	P	
6	410.3825	6.37	23.30	29.67	46.00	-16.33	QP	P	

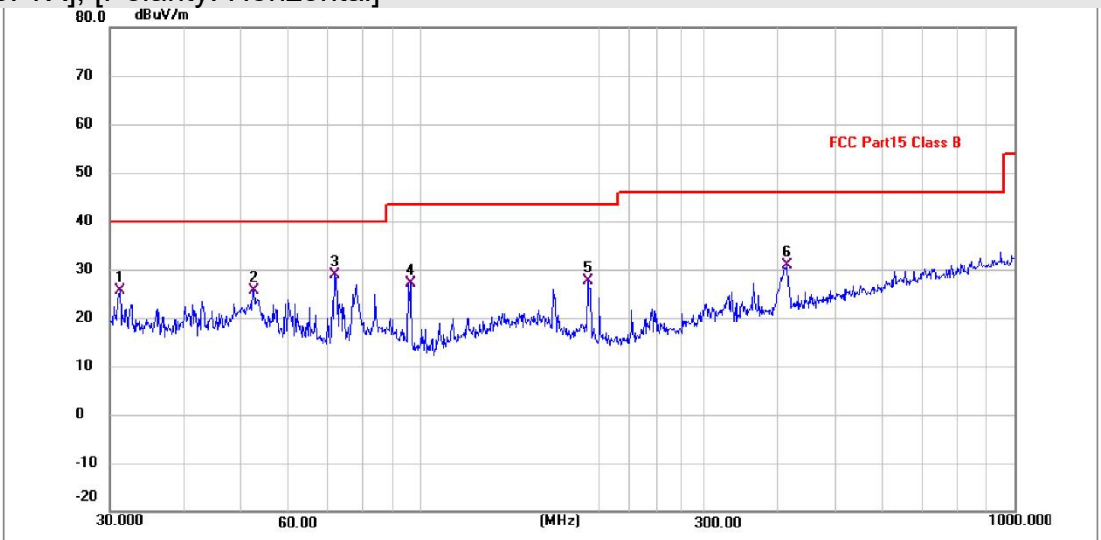
*:Maximum data x:Over limit !:over margin

Test Result: Pass

Band 2:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax40 mode low channel which it is worse case.

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band2-TX
Note:

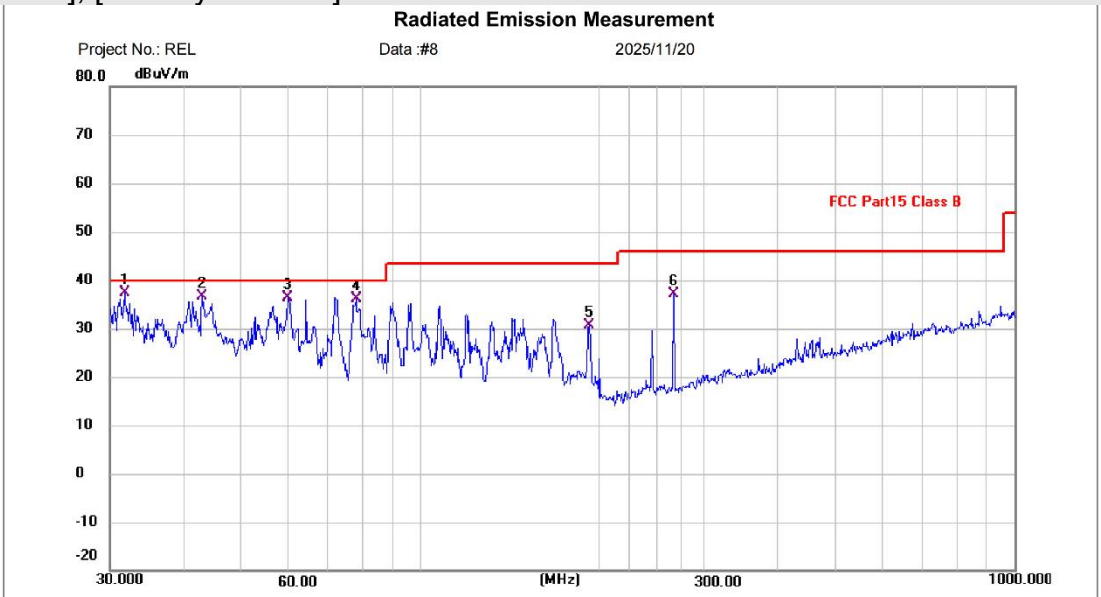
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	31.1797	38.32	-12.57	25.75	40.00	-14.25	QP	P	
2	52.3912	5.66	19.89	25.55	40.00	-14.45	QP	P	
3 *	71.5805	12.40	16.55	28.95	40.00	-11.05	QP	P	
4	96.0985	11.69	15.52	27.21	43.50	-16.29	QP	P	
5	191.0738	10.58	16.97	27.55	43.50	-15.95	QP	P	
6	413.2706	7.52	23.27	30.79	46.00	-15.21	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band2-TX
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	31.7313	50.54	-13.25	37.29	40.00	-2.71	QP	P	
2	42.8998	16.81	19.75	36.56	40.00	-3.44	QP	P	
3	59.6493	17.80	18.55	36.35	40.00	-3.65	QP	P	
4	77.8654	20.39	15.64	36.03	40.00	-3.97	QP	P	
5	192.4186	13.79	16.83	30.62	43.50	-12.88	QP	P	
6	266.6089	18.33	18.83	37.16	46.00	-8.84	QP	P	

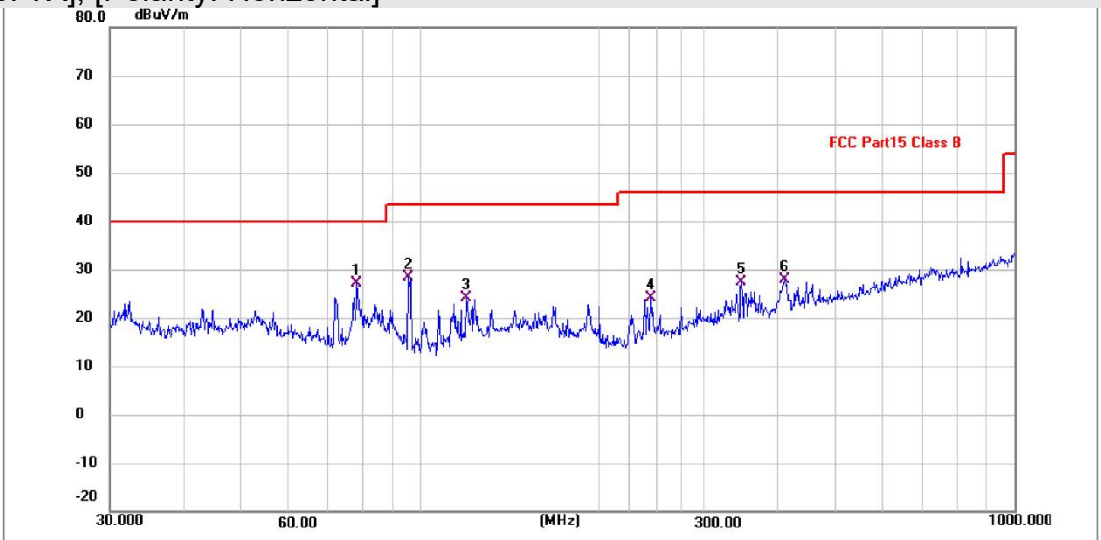
*:Maximum data x:Over limit !:over margin

Test Result: Pass

Band3:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax20 mode low channel which it is worse case.

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band3-TX
Note:

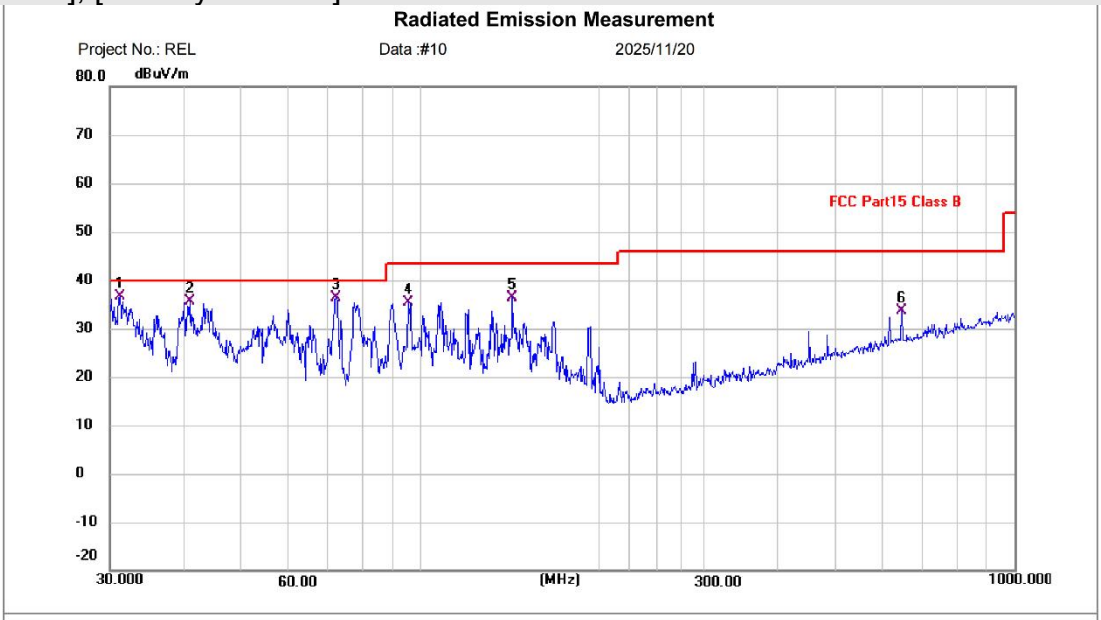
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	78.1388	11.44	15.58	27.02	40.00	-12.98	QP	P	
2	95.4269	13.00	15.41	28.41	43.50	-15.09	QP	P	
3	119.4360	5.87	18.22	24.09	43.50	-19.41	QP	P	
4	244.2321	6.20	17.97	24.17	46.00	-21.83	QP	P	
5	346.8092	6.11	21.24	27.35	46.00	-18.65	QP	P	
6	410.3824	4.63	23.30	27.93	46.00	-18.07	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band3-TX
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	31.1798	49.24	-12.57	36.67	40.00	-3.33	QP	P	
2	40.9881	16.08	19.65	35.73	40.00	-4.27	QP	P	
3	72.0843	19.88	16.45	36.33	40.00	-3.67	QP	P	
4	95.4270	19.89	15.41	35.30	43.50	-8.20	QP	P	
5	142.8243	16.27	20.14	36.41	43.50	-7.09	QP	P	
6	645.1195	6.11	27.62	33.73	46.00	-12.27	QP	P	

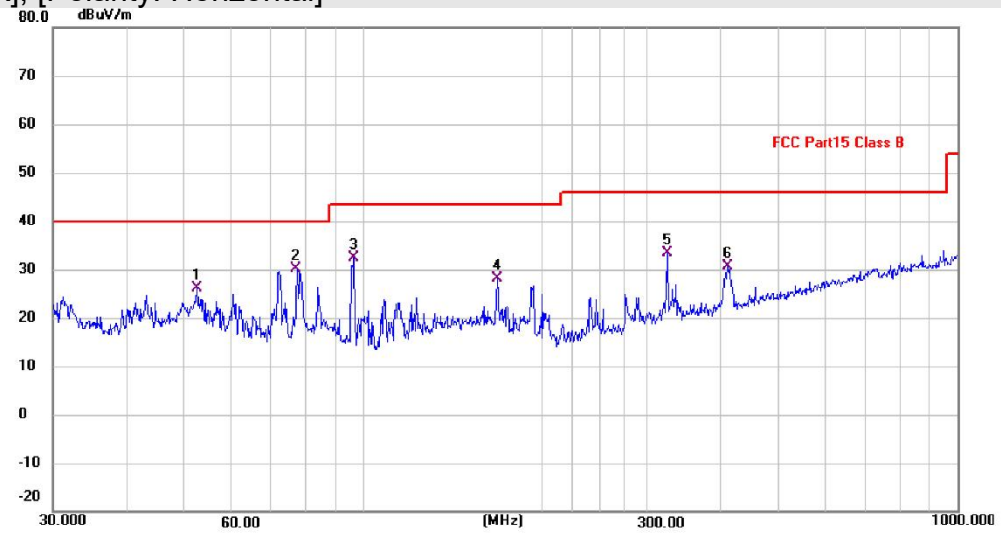
*:Maximum data x:Over limit !:over margin

Test Result: Pass

Band4:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax20 mode low channel which it is worse case.

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band4-TX
Note:

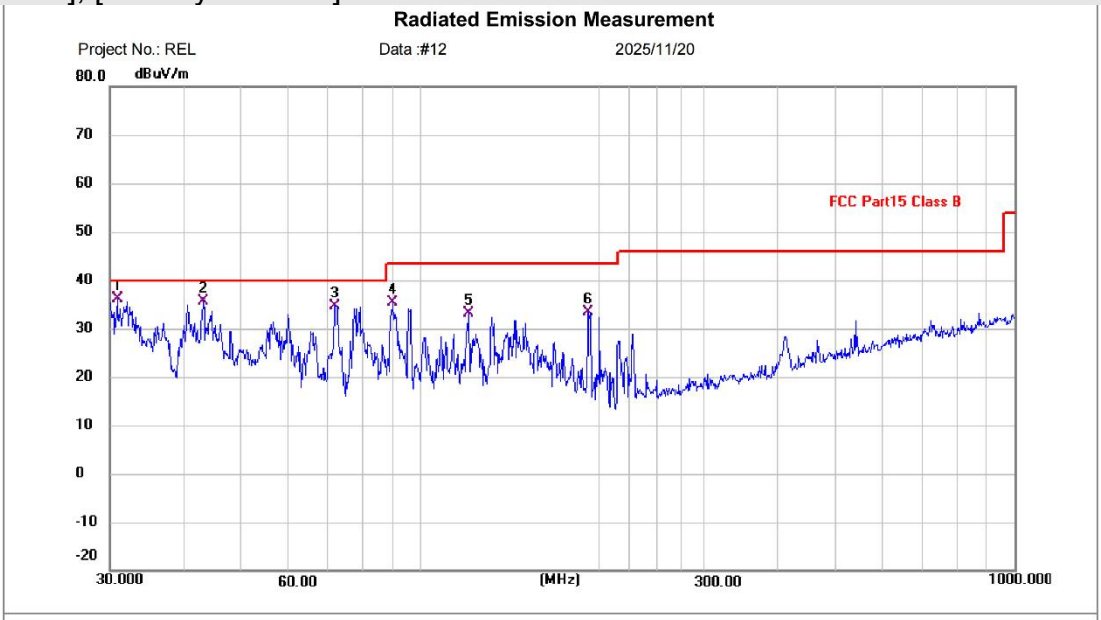
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	52.3912	6.19	19.89	26.08	40.00	-13.92	QP	P	
2 *	77.3210	14.27	15.74	30.01	40.00	-9.99	QP	P	
3	96.4361	16.93	15.55	32.48	43.50	-11.02	QP	P	
4	167.8242	8.29	19.84	28.13	43.50	-15.37	QP	P	
5	324.4560	12.38	21.05	33.43	46.00	-12.57	QP	P	
6	410.3824	7.45	23.30	30.75	46.00	-15.25	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5GWIFI-band4-TX
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	30.8535	48.28	-12.16	36.12	40.00	-3.88	QP	P	
2	43.0505	15.95	19.76	35.71	40.00	-4.29	QP	P	
3	71.8320	18.20	16.50	34.70	40.00	-5.30	QP	P	
4	89.9047	20.10	15.37	35.47	43.50	-8.03	QP	P	
5	120.6991	14.50	18.55	33.05	43.50	-10.45	QP	P	
6	191.7450	16.36	16.91	33.27	43.50	-10.23	QP	P	

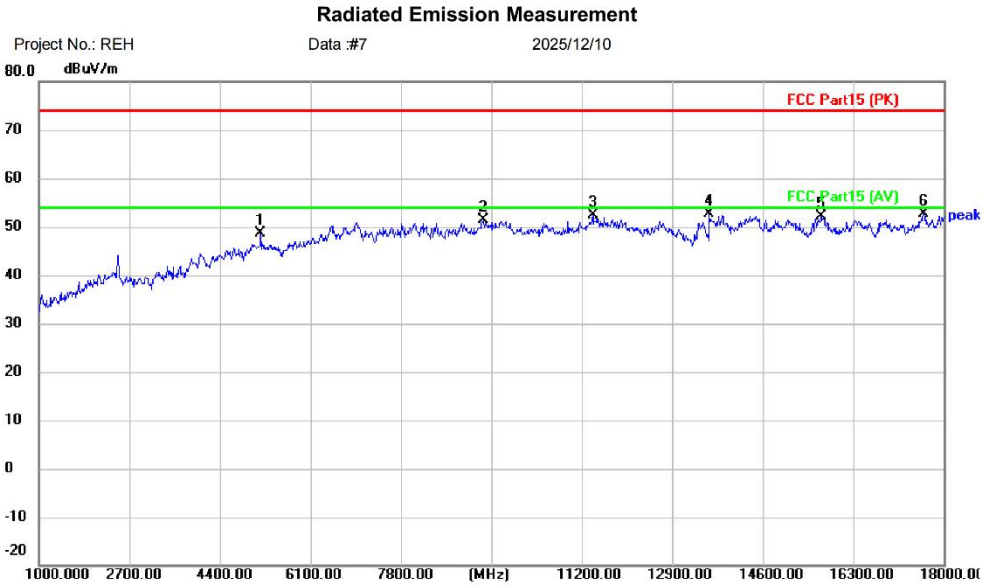
*:Maximum data x:Over limit !:over margin

Test Result: Pass

Above 1GHz Band 1:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax40 mode low channel which it is worse case.

[Test mode: Band1 TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5180
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

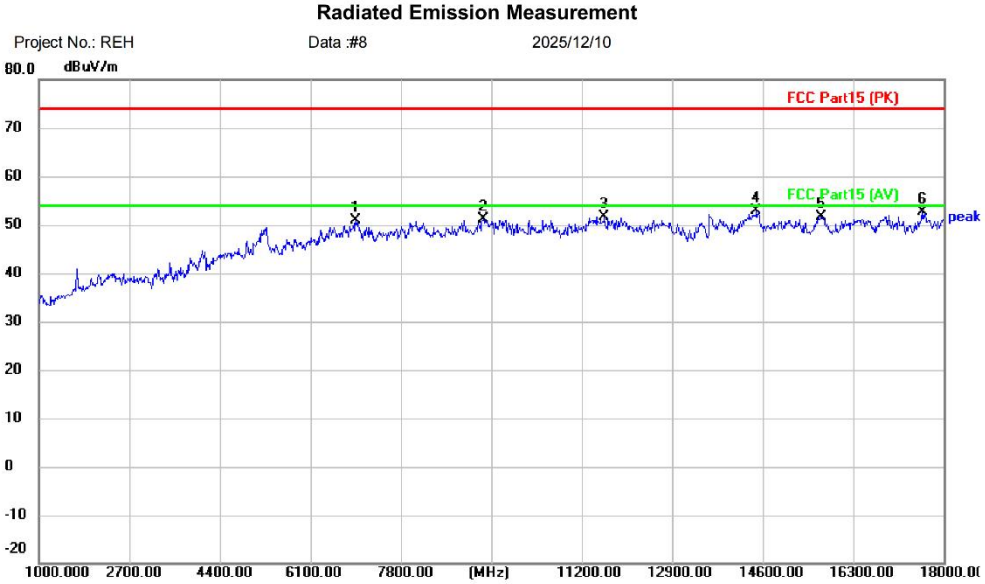
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5165.000	39.41	9.25	48.66	74.00	-25.34	peak	
2		9347.000	37.96	13.38	51.34	74.00	-22.66	peak	
3		11404.00	38.03	14.29	52.32	74.00	-21.68	peak	
4		13597.00	39.80	12.90	52.70	74.00	-21.30	peak	
5		15705.00	42.67	9.45	52.12	74.00	-21.88	peak	
6	*	17626.00	42.39	10.34	52.73	74.00	-21.27	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band1 TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5180
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

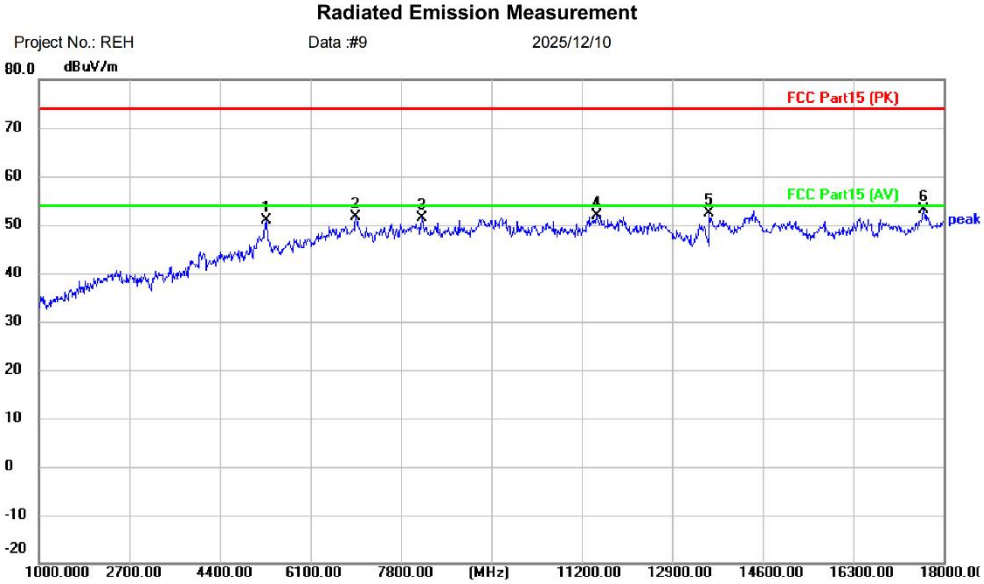
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	38.39	12.54	50.93	74.00	-23.07	peak	
2		9347.000	37.77	13.38	51.15	74.00	-22.85	peak	
3		11625.00	37.10	14.45	51.55	74.00	-22.45	peak	
4	*	14481.00	42.25	10.51	52.76	74.00	-21.24	peak	
5		15705.00	42.13	9.45	51.58	74.00	-22.42	peak	
6		17592.00	42.25	10.36	52.61	74.00	-21.39	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band1 TX middle channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5200
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

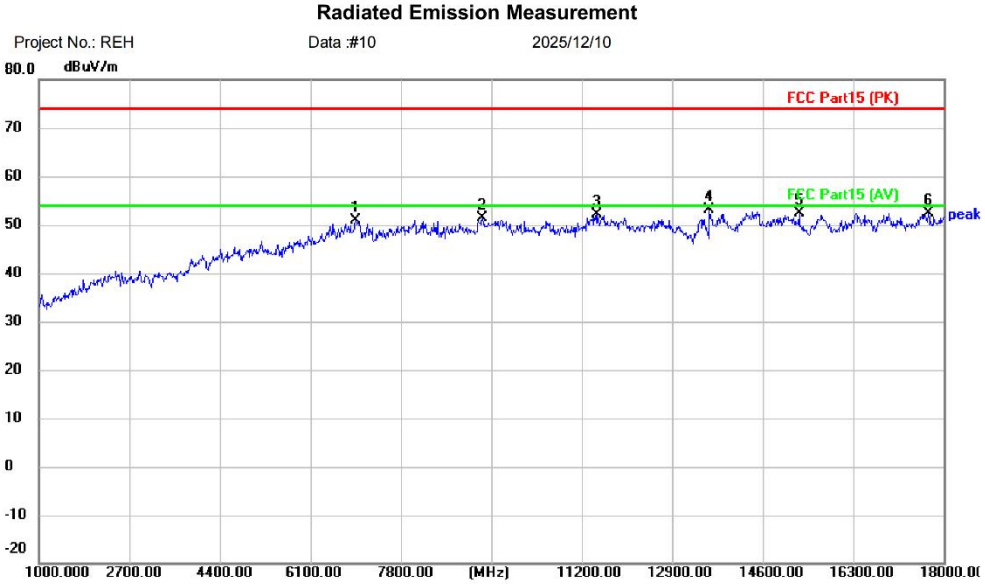
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5267.000	39.86	10.97	50.83	74.00	-23.17	peak	
2		6950.000	39.06	12.54	51.60	74.00	-22.40	peak	
3		8191.000	39.94	11.50	51.44	74.00	-22.56	peak	
4		11472.00	37.11	14.71	51.82	74.00	-22.18	peak	
5		13597.00	39.43	12.90	52.33	74.00	-21.67	peak	
6	*	17626.00	42.88	10.34	53.22	74.00	-20.78	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band1 TX middle channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5200
Note:

Polarization: *Vertical*
Power:

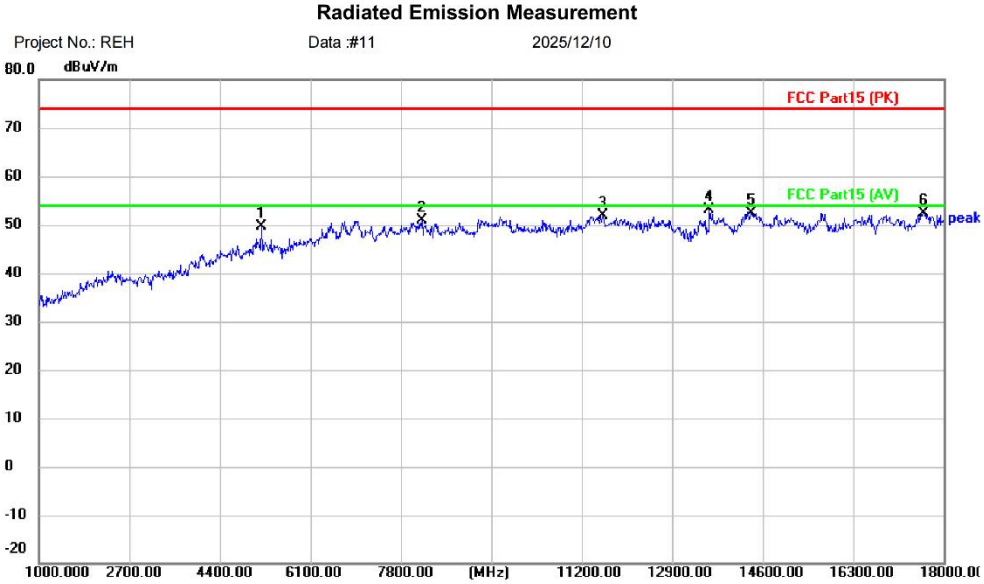
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	38.44	12.54	50.98	74.00	-23.02	peak	
2		9330.000	38.17	13.29	51.46	74.00	-22.54	peak	
3		11489.00	37.22	14.81	52.03	74.00	-21.97	peak	
4	*	13597.00	40.27	12.90	53.17	74.00	-20.83	peak	
5		15280.00	42.70	9.62	52.32	74.00	-21.68	peak	
6		17711.00	42.27	10.13	52.40	74.00	-21.60	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band1 TX High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5240
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

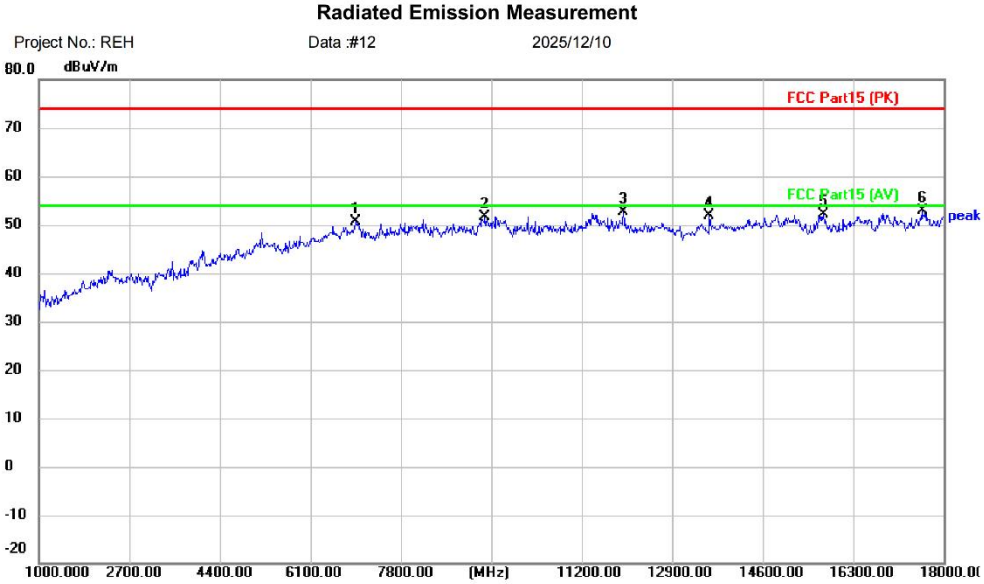
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5182.000	40.21	9.49	49.70	74.00	-24.30	peak	
2		8191.000	39.28	11.50	50.78	74.00	-23.22	peak	
3		11591.00	37.15	14.78	51.93	74.00	-22.07	peak	
4	*	13597.00	40.20	12.90	53.10	74.00	-20.90	peak	
5		14379.00	41.67	10.78	52.45	74.00	-21.55	peak	
6		17626.00	42.15	10.34	52.49	74.00	-21.51	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band1 TX High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band1-TX-5240
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	37.99	12.54	50.53	74.00	-23.47	peak	
2		9381.000	38.68	12.97	51.65	74.00	-22.35	peak	
3		11982.00	38.58	14.14	52.72	74.00	-21.28	peak	
4		13597.00	38.95	12.90	51.85	74.00	-22.15	peak	
5		15739.00	42.93	9.19	52.12	74.00	-21.88	peak	
6	*	17592.00	42.42	10.36	52.78	74.00	-21.22	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

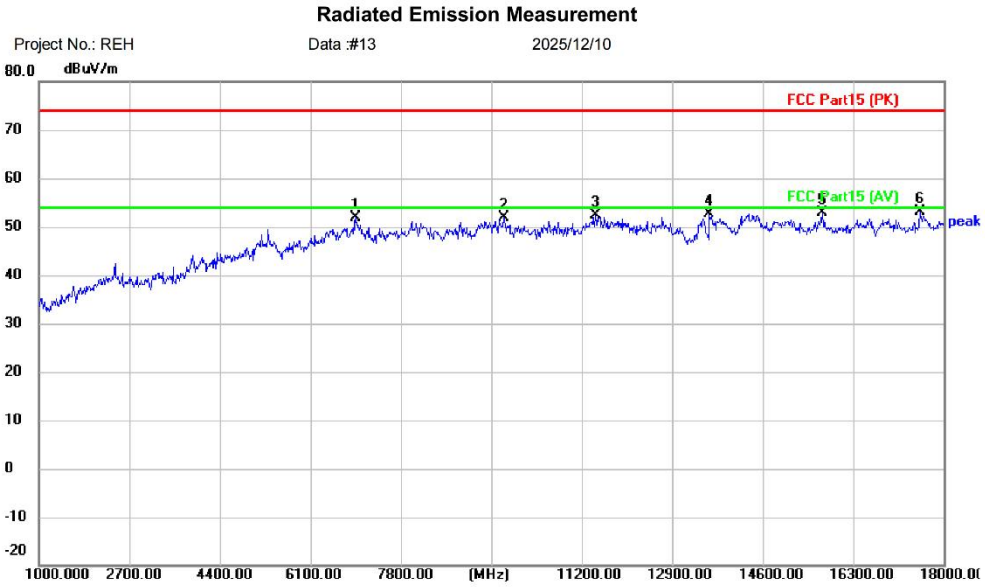
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

Band 2:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax40 mode low channel which it is worse case.

[Test mode: Band2 TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5260
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

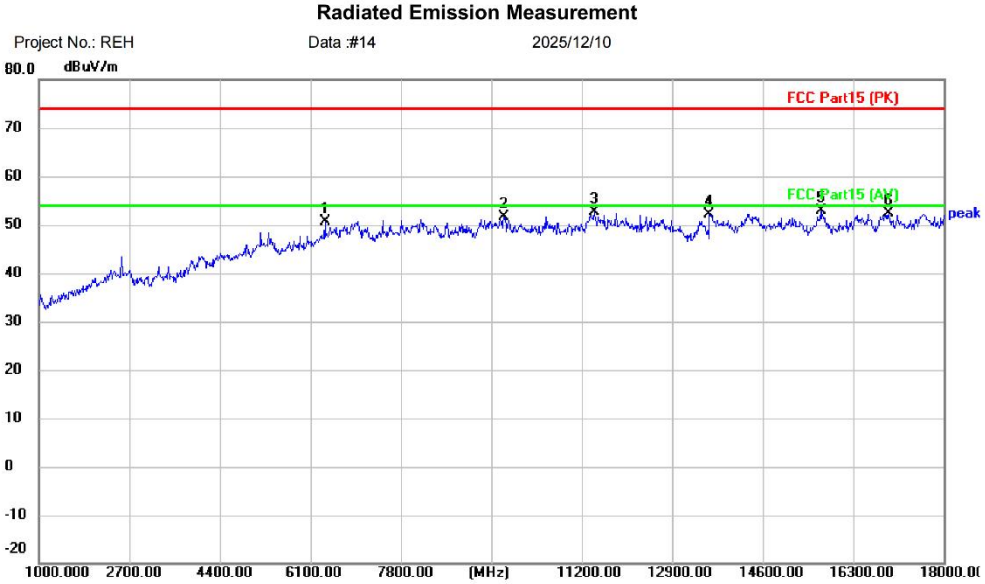
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	39.18	12.60	51.78	74.00	-22.22	peak	
2		9738.000	38.15	13.75	51.90	74.00	-22.10	peak	
3		11455.00	37.68	14.60	52.28	74.00	-21.72	peak	
4		13597.00	39.67	12.90	52.57	74.00	-21.43	peak	
5		15722.00	43.54	9.32	52.86	74.00	-21.14	peak	
6	*	17558.00	42.91	10.13	53.04	74.00	-20.96	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band2 TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5260
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

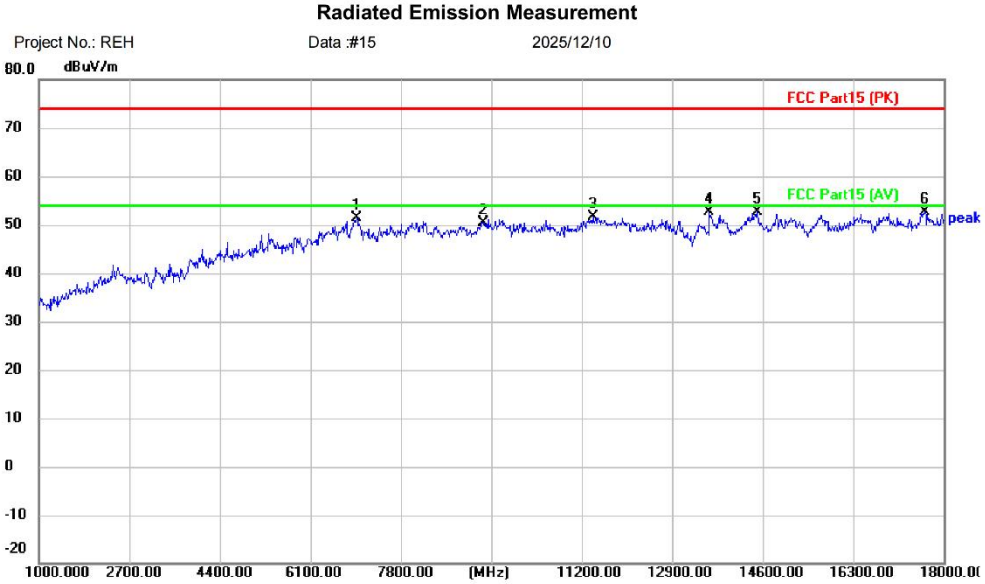
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6372.000	40.23	10.38	50.61	74.00	-23.39	peak	
2		9738.000	37.89	13.75	51.64	74.00	-22.36	peak	
3		11438.00	38.06	14.49	52.55	74.00	-21.45	peak	
4		13597.00	39.22	12.90	52.12	74.00	-21.88	peak	
5	*	15688.00	43.41	9.44	52.85	74.00	-21.15	peak	
6		16963.00	42.82	9.56	52.38	74.00	-21.62	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band2 TX middle channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5280
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

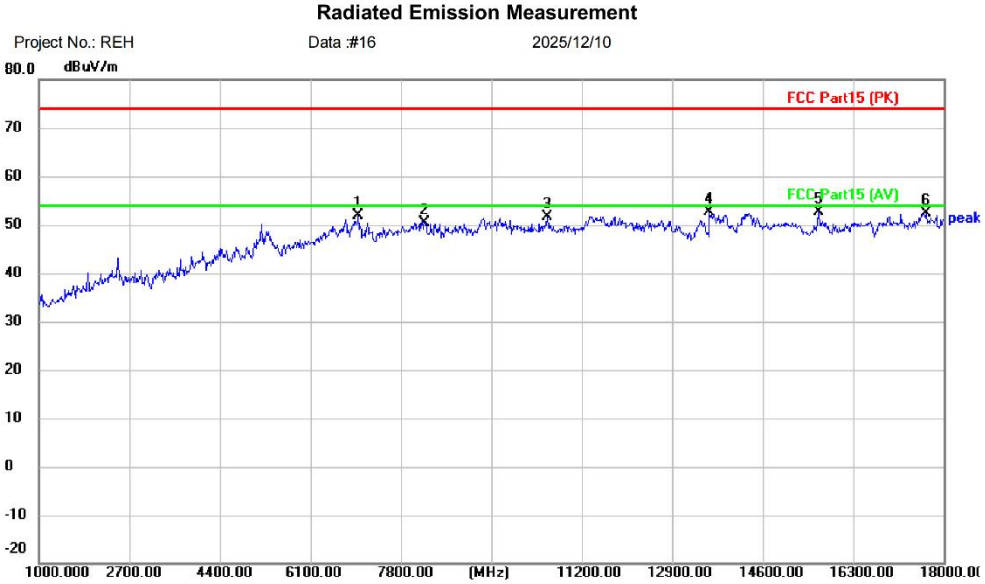
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6967.000	38.83	12.47	51.30	74.00	-22.70	peak	
2		9347.000	37.00	13.38	50.38	74.00	-23.62	peak	
3		11404.00	37.42	14.29	51.71	74.00	-22.29	peak	
4		13597.00	39.75	12.90	52.65	74.00	-21.35	peak	
5		14498.00	42.21	10.45	52.66	74.00	-21.34	peak	
6	*	17643.00	42.40	10.30	52.70	74.00	-21.30	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band2 TX middle channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5280
Note:

Polarization: *Vertical*
Power:

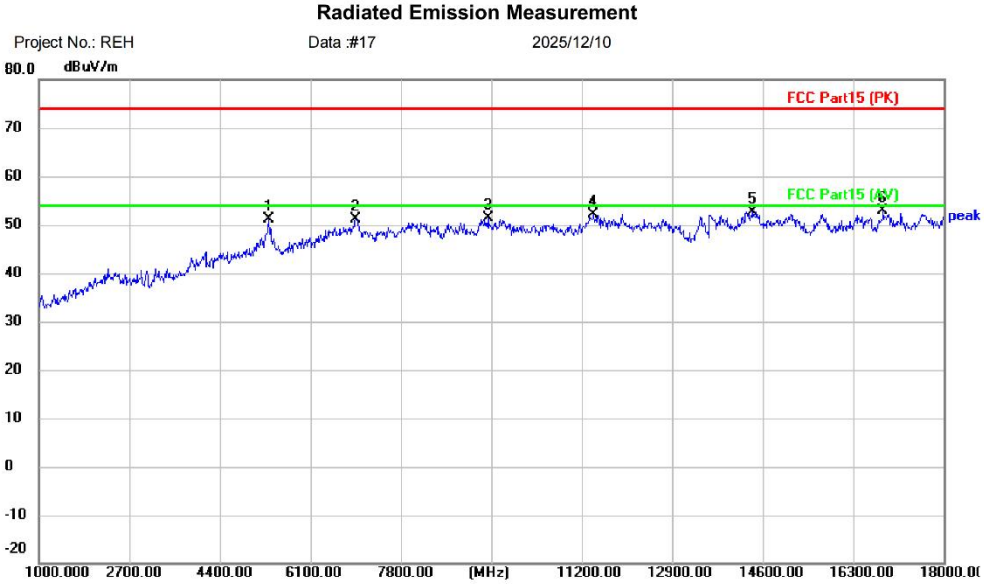
Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7001.000	42.47	9.47	51.94	74.00	-22.06	peak	
2		8242.000	39.24	11.24	50.48	74.00	-23.52	peak	
3		10554.00	37.95	13.67	51.62	74.00	-22.38	peak	
4	*	13597.00	39.73	12.90	52.63	74.00	-21.37	peak	
5		15654.00	43.29	9.30	52.59	74.00	-21.41	peak	
6		17677.00	42.18	10.19	52.37	74.00	-21.63	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band2 TX High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5320
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

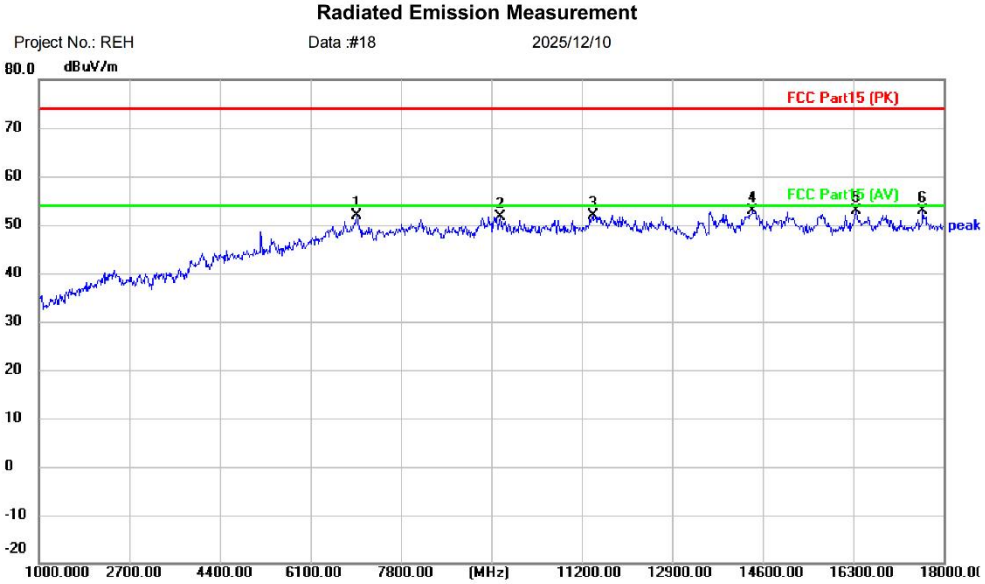
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5318.000	41.58	9.44	51.02	74.00	-22.98	peak	
2		6950.000	38.61	12.60	51.21	74.00	-22.79	peak	
3		9432.000	38.41	12.97	51.38	74.00	-22.62	peak	
4		11421.00	37.80	14.39	52.19	74.00	-21.81	peak	
5		14413.00	41.92	10.68	52.60	74.00	-21.40	peak	
6	*	16861.00	42.60	10.36	52.96	74.00	-21.04	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band2 TX High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band2-TX-5320
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6967.000	39.34	12.47	51.81	74.00	-22.19	peak	
2		9670.000	38.23	13.51	51.74	74.00	-22.26	peak	
3		11404.00	37.66	14.29	51.95	74.00	-22.05	peak	
4		14413.00	42.18	10.68	52.86	74.00	-21.14	peak	
5		16351.00	43.53	9.33	52.86	74.00	-21.14	peak	
6	*	17609.00	42.52	10.38	52.90	74.00	-21.10	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

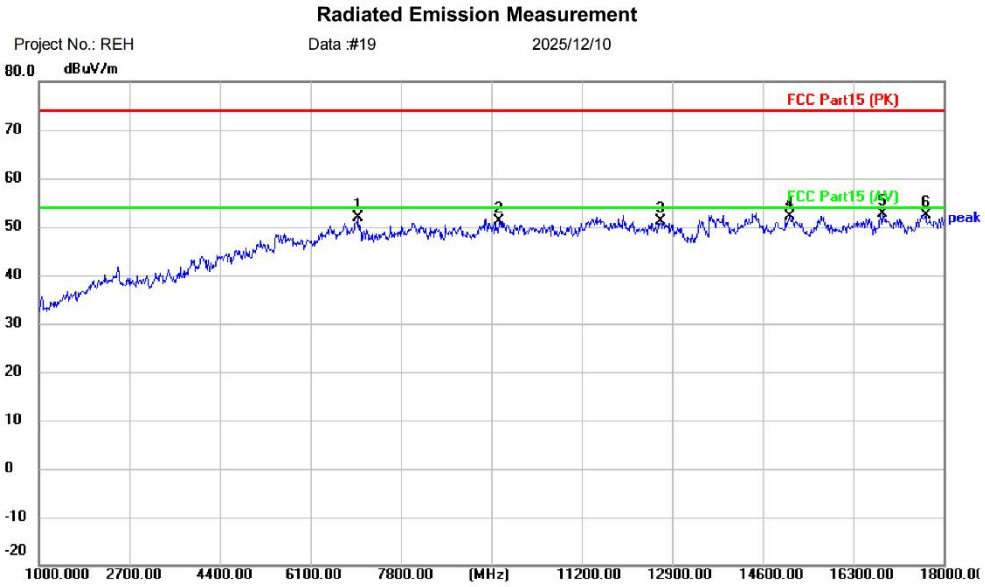
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

Band 3:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax20 mode low channel which it is worse case.

[Test mode: Band3 TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5500
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

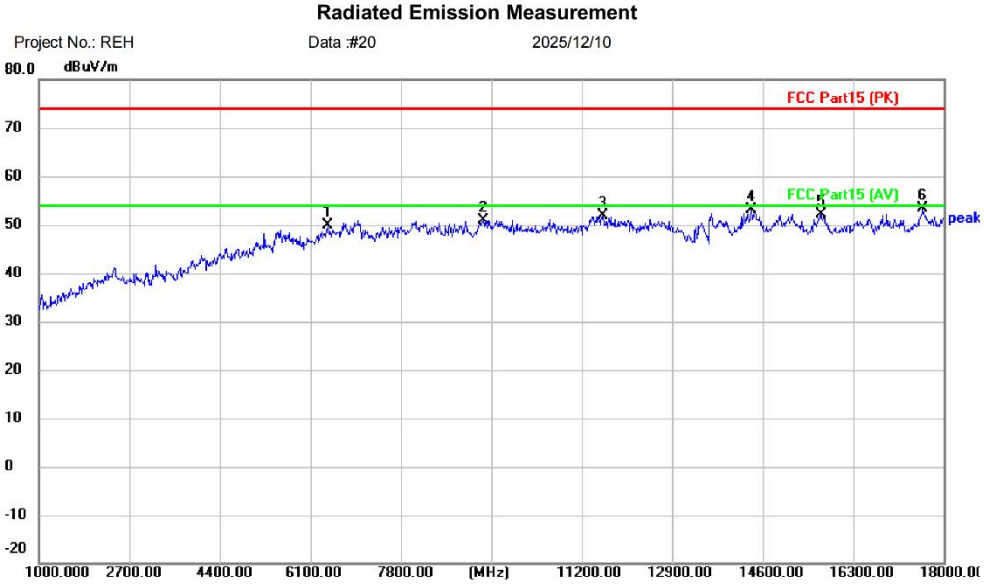
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7001.000	42.40	9.47	51.87	74.00	-22.13	peak	
2		9636.000	37.80	13.34	51.14	74.00	-22.86	peak	
3		12679.00	37.32	13.76	51.08	74.00	-22.92	peak	
4		15110.00	42.61	9.53	52.14	74.00	-21.86	peak	
5	*	16844.00	42.20	10.34	52.54	74.00	-21.46	peak	
6		17660.00	42.19	10.25	52.44	74.00	-21.56	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band3 TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5500
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

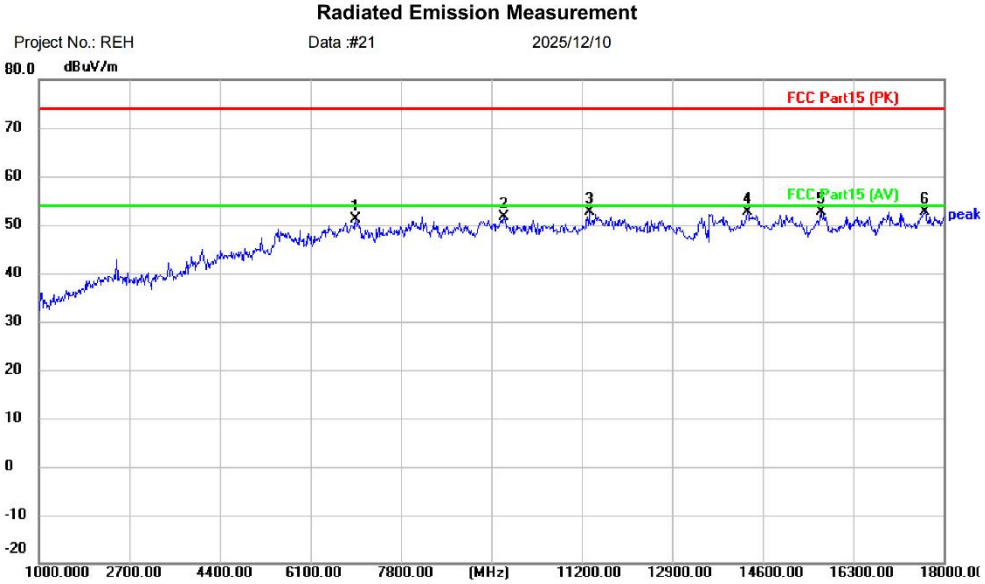
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6423.000	38.98	11.00	49.98	74.00	-24.02	peak	
2		9347.000	37.52	13.38	50.90	74.00	-23.10	peak	
3		11591.00	37.15	14.78	51.93	74.00	-22.07	peak	
4		14379.00	42.25	10.78	53.03	74.00	-20.97	peak	
5		15688.00	42.80	9.44	52.24	74.00	-21.76	peak	
6	*	17609.00	42.93	10.38	53.31	74.00	-20.69	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band3 TX middle channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5600
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

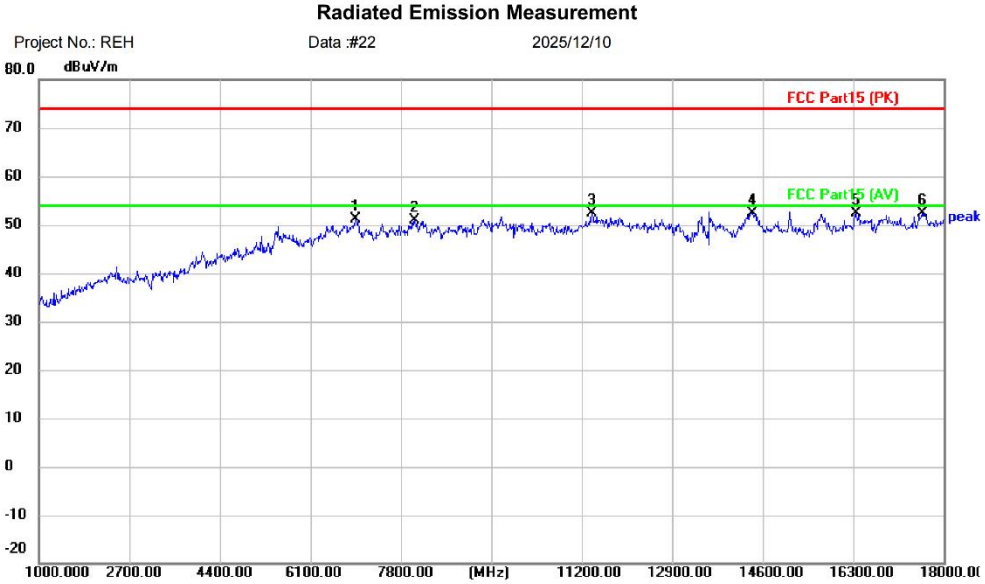
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	38.62	12.56	51.18	74.00	-22.82	peak	
2		9738.000	37.85	13.75	51.60	74.00	-22.40	peak	
3	*	11336.00	39.16	13.57	52.73	74.00	-21.27	peak	
4		14311.00	41.56	11.04	52.60	74.00	-21.40	peak	
5		15688.00	43.13	9.44	52.57	74.00	-21.43	peak	
6		17643.00	42.28	10.30	52.58	74.00	-21.42	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band3 TX middle channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5600
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

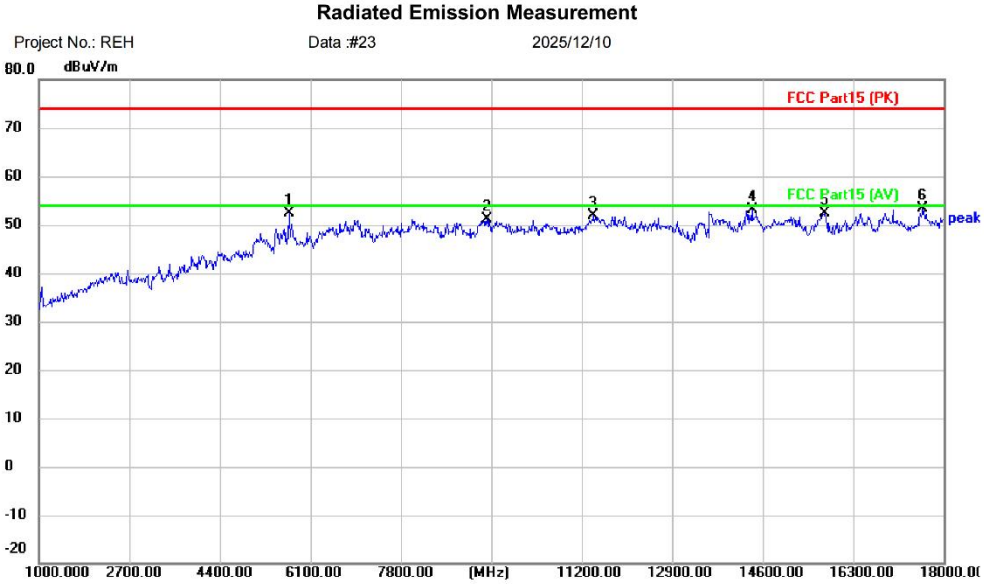
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6950.000	38.65	12.56	51.21	74.00	-22.79	peak	
2		8055.000	39.19	11.71	50.90	74.00	-23.10	peak	
3		11387.00	38.22	14.13	52.35	74.00	-21.65	peak	
4		14413.00	41.72	10.68	52.40	74.00	-21.60	peak	
5		16351.00	43.12	9.33	52.45	74.00	-21.55	peak	
6	*	17592.00	42.10	10.36	52.46	74.00	-21.54	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band3 TX High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5700
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

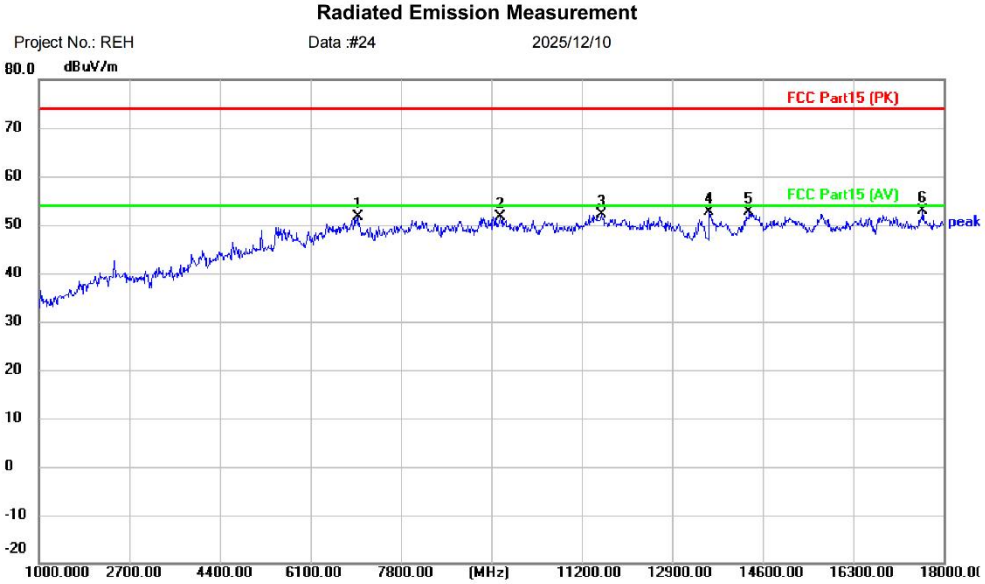
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5692.000	42.21	10.14	52.35	74.00	-21.65	peak	
2		9415.000	38.35	12.83	51.18	74.00	-22.82	peak	
3		11421.00	37.55	14.39	51.94	74.00	-22.06	peak	
4		14396.00	42.36	10.73	53.09	74.00	-20.91	peak	
5		15773.00	43.55	8.92	52.47	74.00	-21.53	peak	
6	*	17609.00	42.89	10.38	53.27	74.00	-20.73	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: Band3 TX High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band3-TX-5700
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7001.000	42.11	9.47	51.58	74.00	-22.42	peak	
2		9670.000	38.24	13.51	51.75	74.00	-22.25	peak	
3		11574.00	37.34	14.79	52.13	74.00	-21.87	peak	
4		13597.00	39.69	12.90	52.59	74.00	-21.41	peak	
5		14345.00	41.83	10.91	52.74	74.00	-21.26	peak	
6	*	17609.00	42.45	10.38	52.83	74.00	-21.17	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

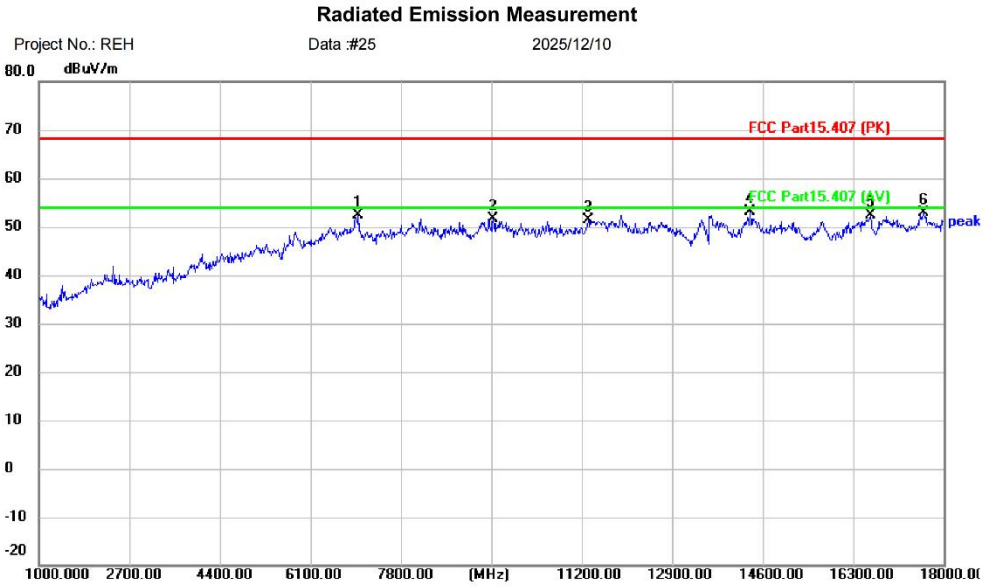
Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

Band 4:

Remark: During the test, pre-scan the 802.11a/n/ac/ax mode, and found the 802.11ax20 mode low channel which it is worse case.

[Test mode: Band4 TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15.407 (PK)
EUT: WiFi + BT Combo Module
M/N: S6652S2-T2
Mode: 5G-band4-TX-5745
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		7001.000	42.96	9.47	52.43	68.20	-15.77	peak	
2		9534.000	38.75	12.95	51.70	68.20	-16.50	peak	
3		11319.00	37.88	13.38	51.26	68.20	-16.94	peak	
4	*	14362.00	42.17	10.86	53.03	68.20	-15.17	peak	
5		16623.00	41.79	10.51	52.30	68.20	-15.90	peak	
6		17626.00	42.51	10.34	52.85	68.20	-15.35	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass