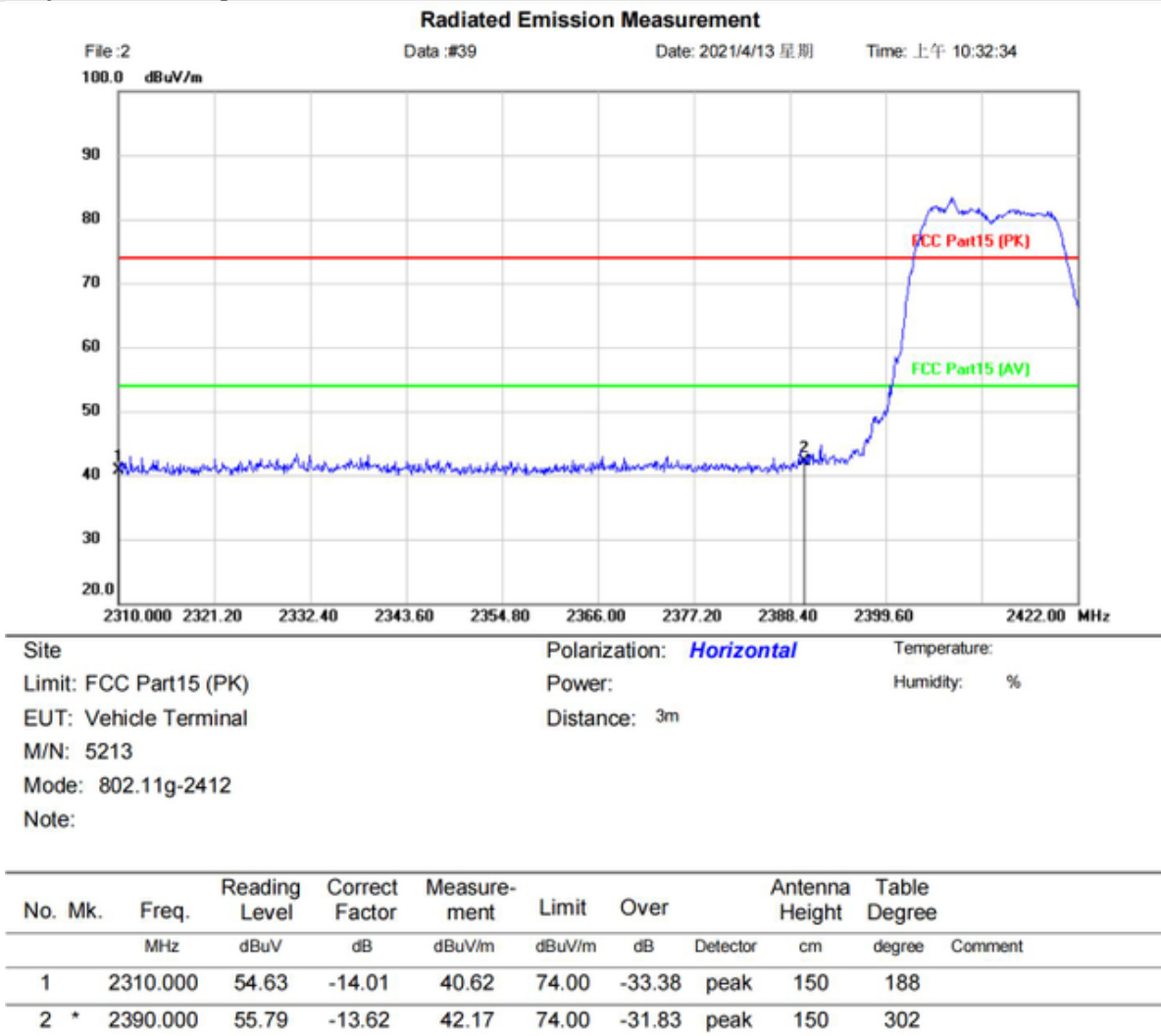


802.11G:

[Polarity: Horizontal]

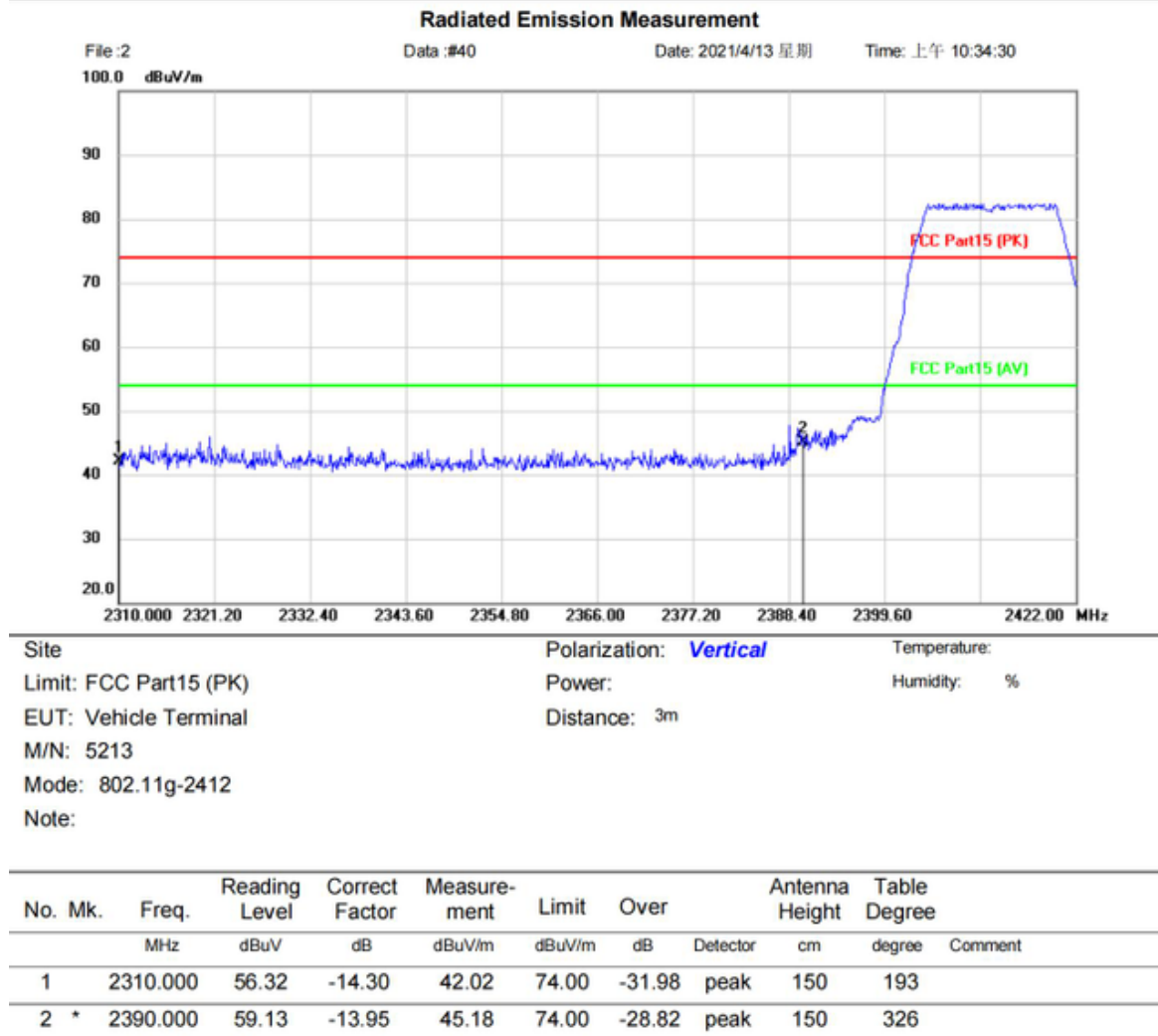


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]

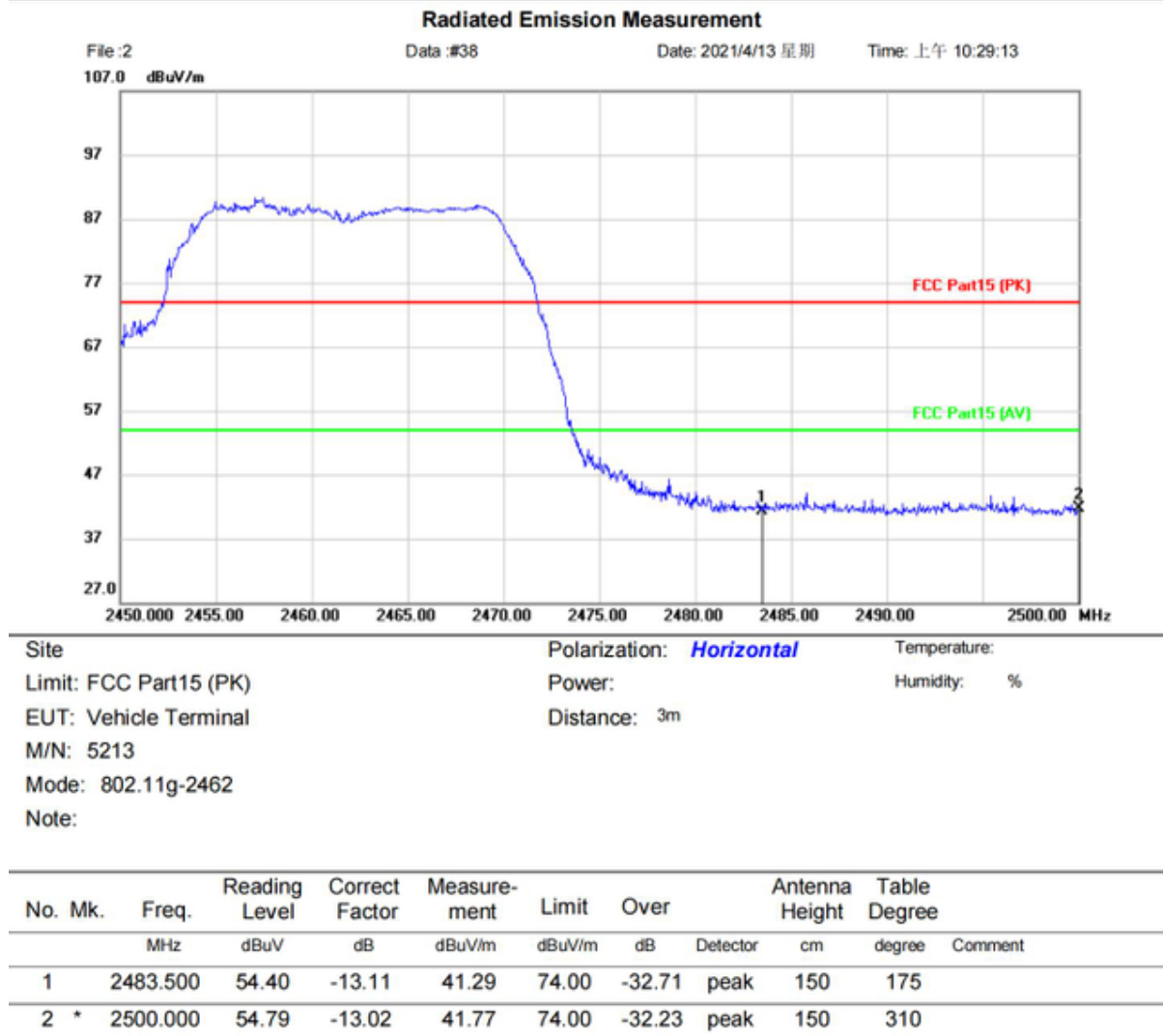


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Horizontal]

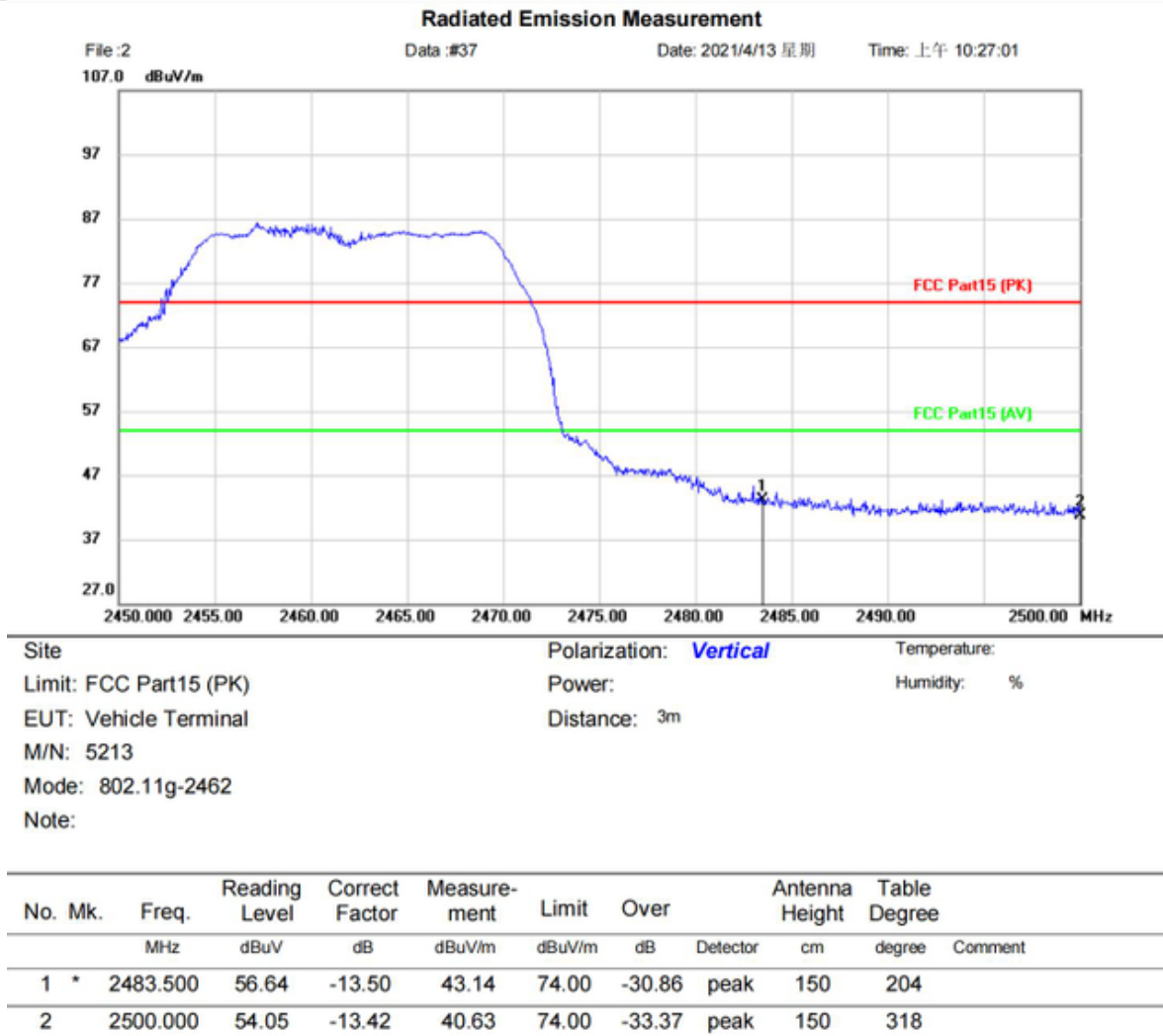


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]



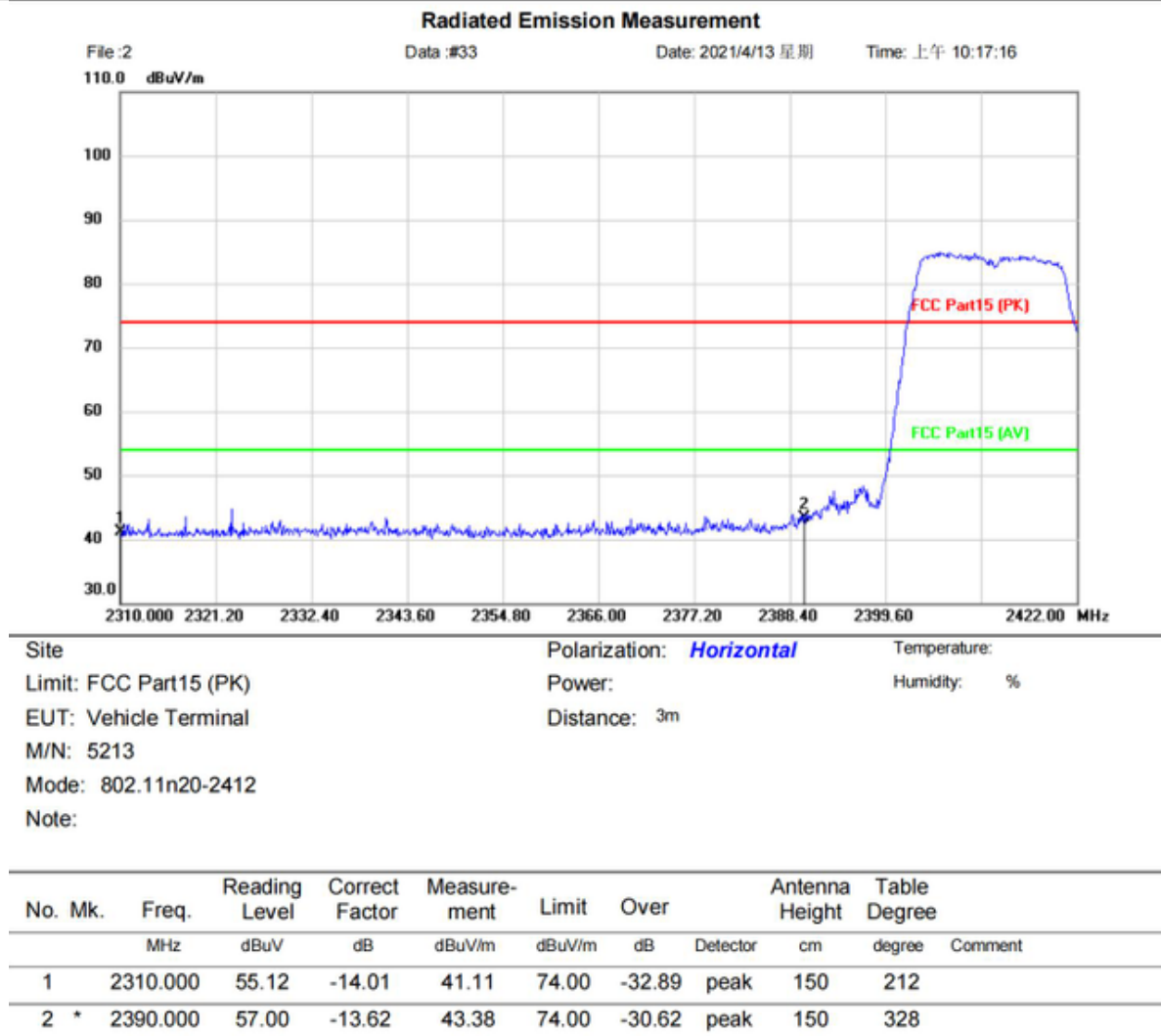
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

802.11N20:

[Polarity: Horizontal]

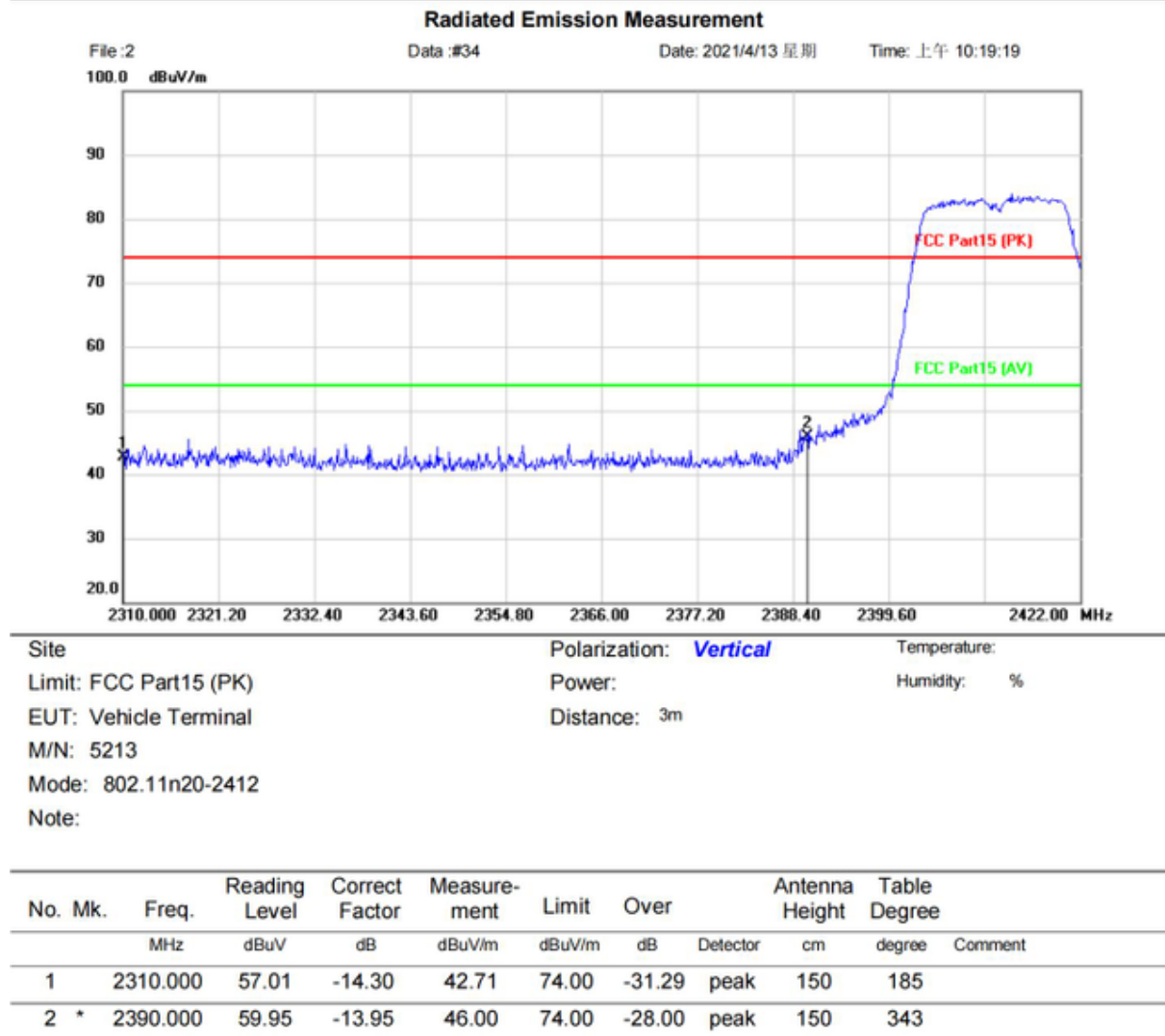


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]

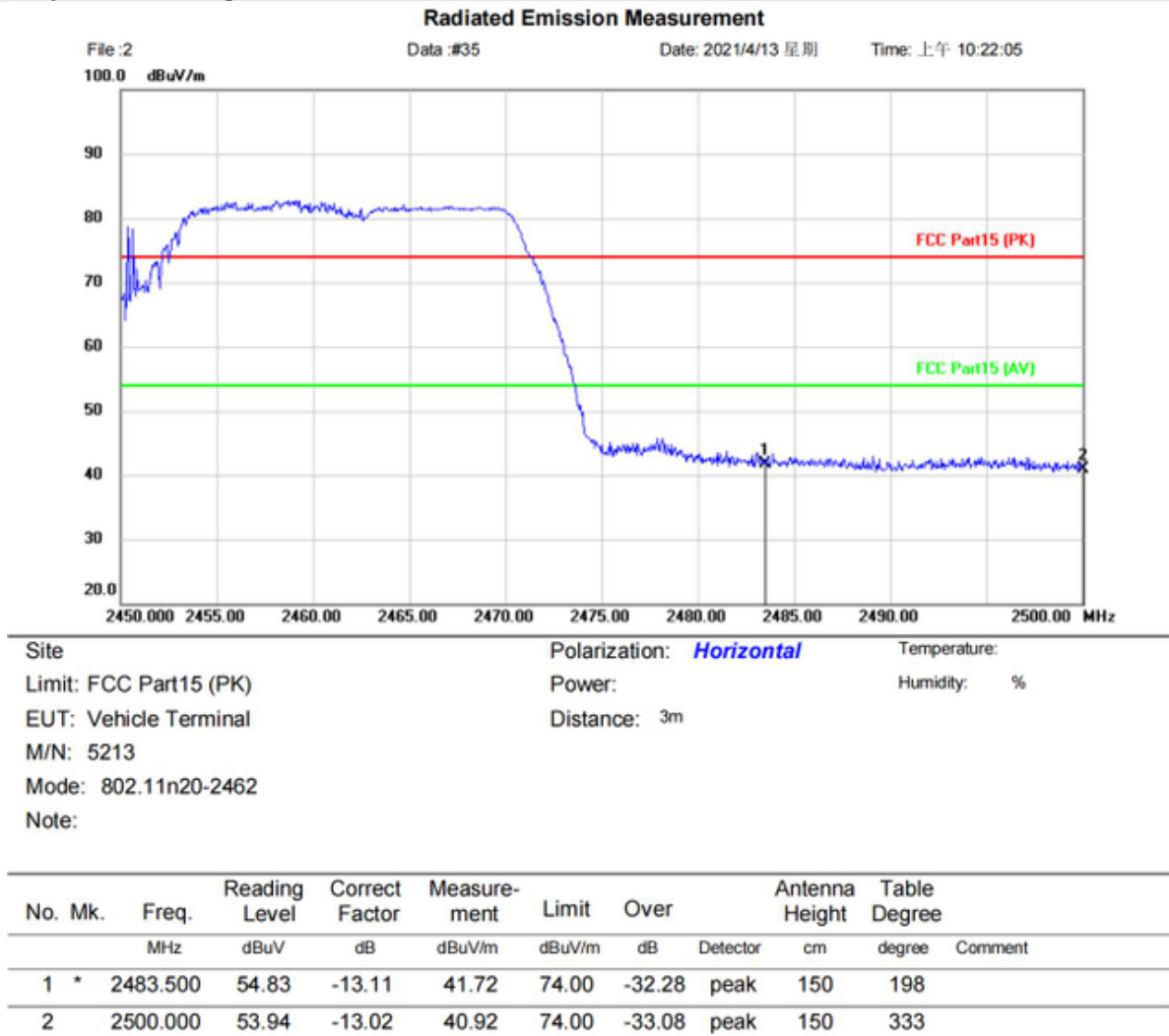


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Horizontal]

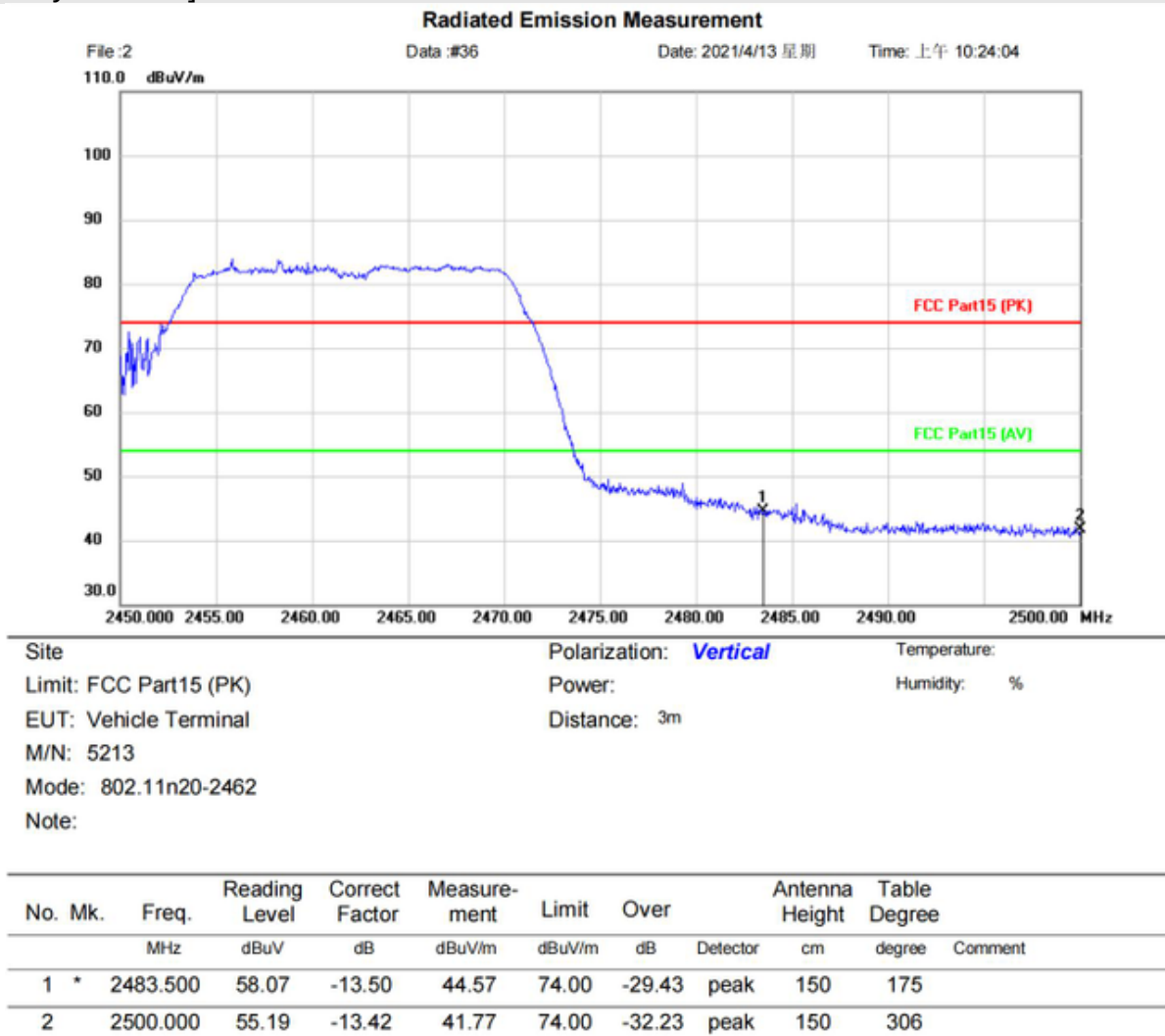


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]



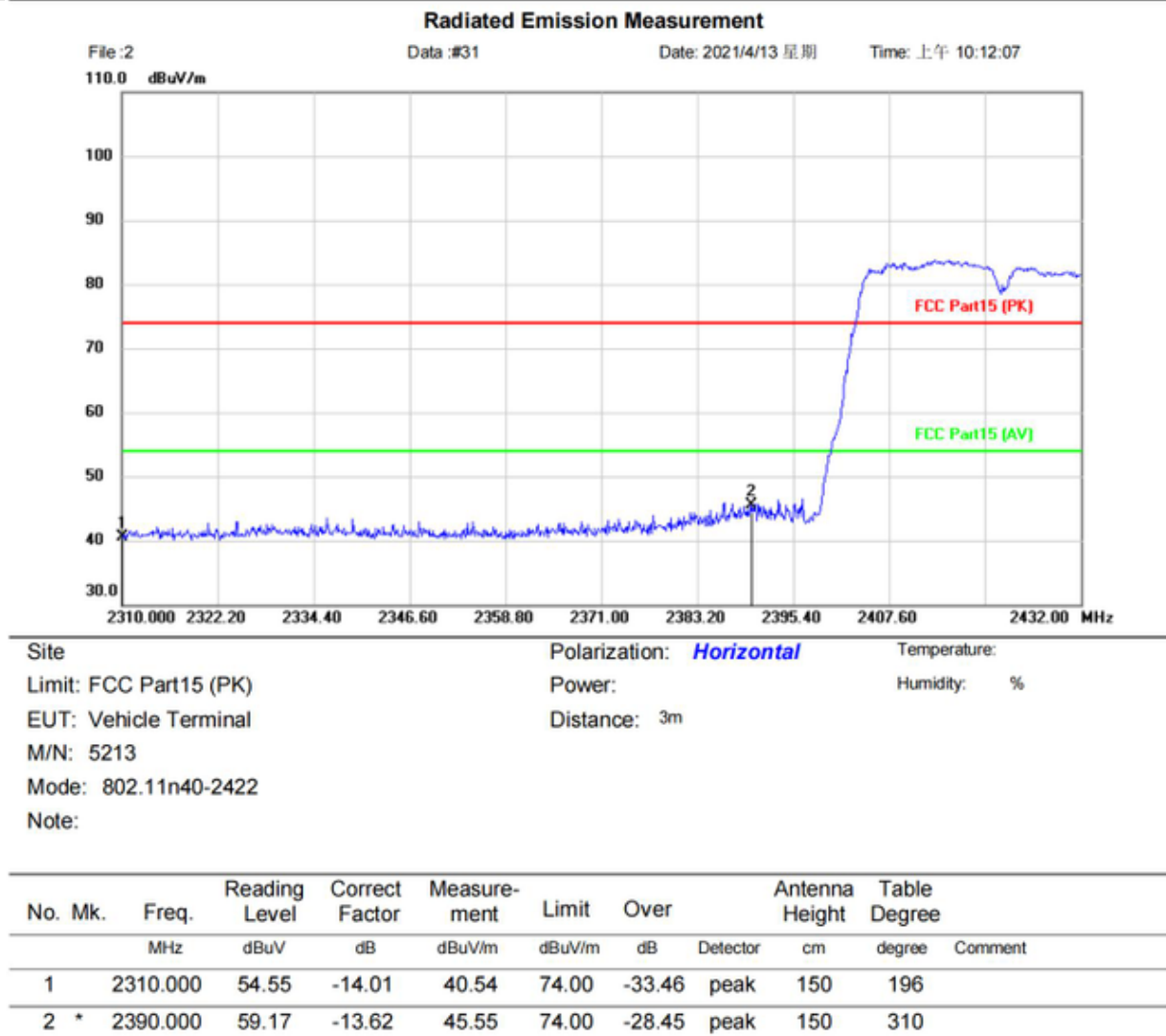
*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

802.11N40

[Polarity: Horizontal]

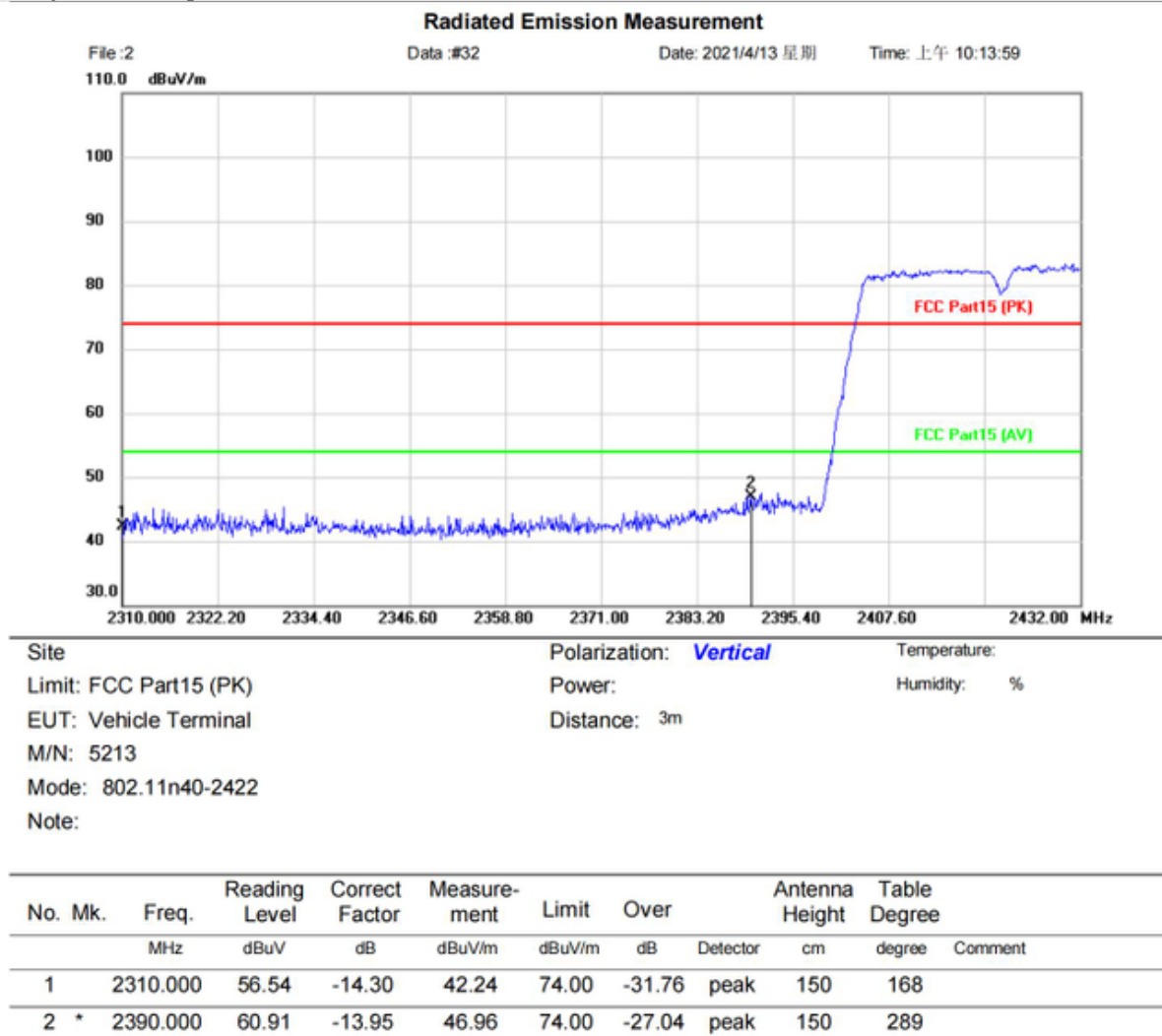


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]

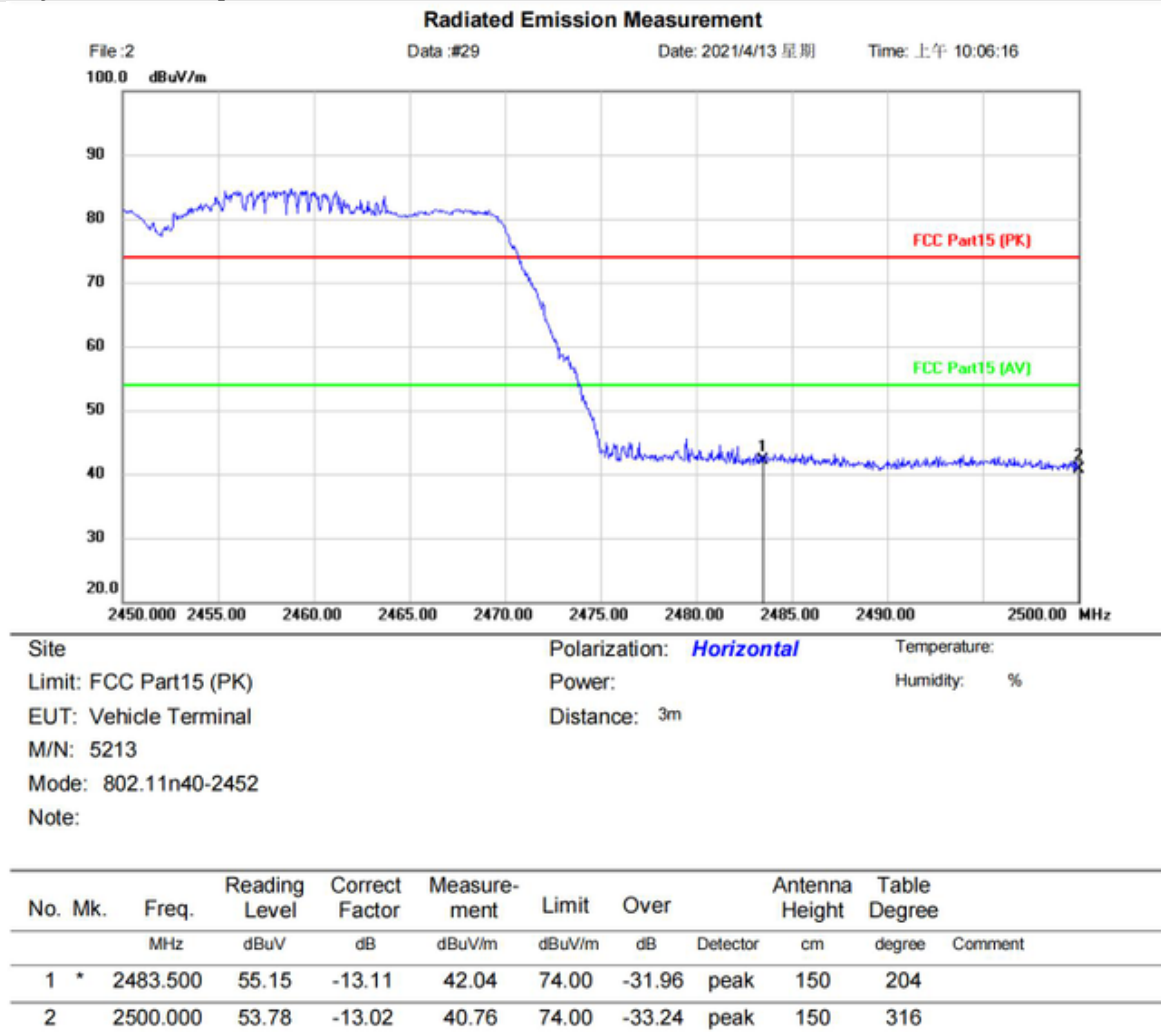


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Horizontal]

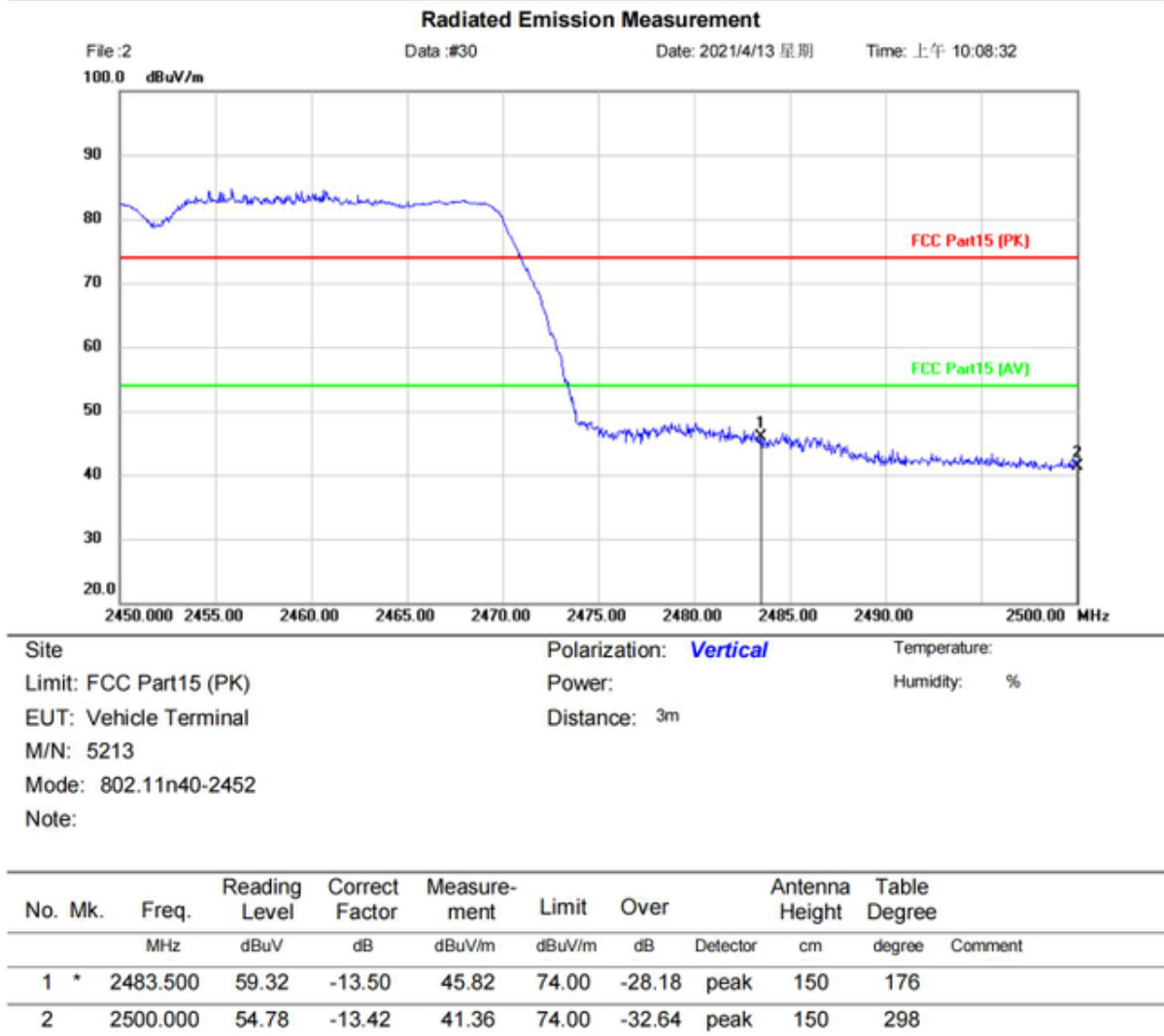


*:Maximum data x:Over limit !:over margin

(Reference Only)

Test Result: Pass

[Polarity: Vertical]



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

(Reference Only)

Test Result: Pass

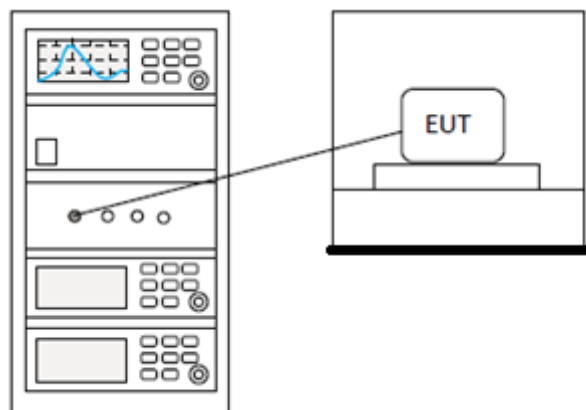
3 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	25°C
Humidity	52%

3.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

3.2 BLOCK DIAGRAM OF TEST SETUP



3.3 TEST DATA

Pass: Please Refer To Appendix: For Details

BlueAsia

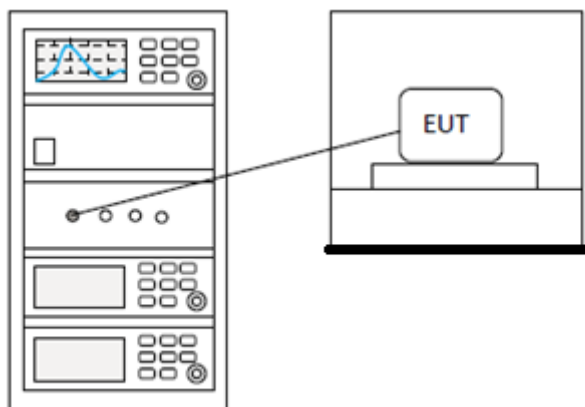
4 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	22℃
Humidity	50%

4.1 LIMITS

Limit:	≥ 500 kHz
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4.2 BLOCK DIAGRAM OF TEST SETUP



4.3 TEST DATA

Pass: Please Refer To Appendix: For Details

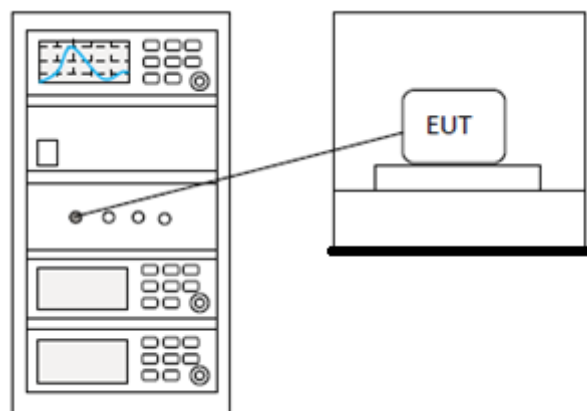
5 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	22°C
Humidity	50%

5.1 LIMITS

Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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5.2 BLOCK DIAGRAM OF TEST SETUP



5.3 TEST DATA

Pass: Please Refer To Appendix: For Details

BlueAsia

6 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

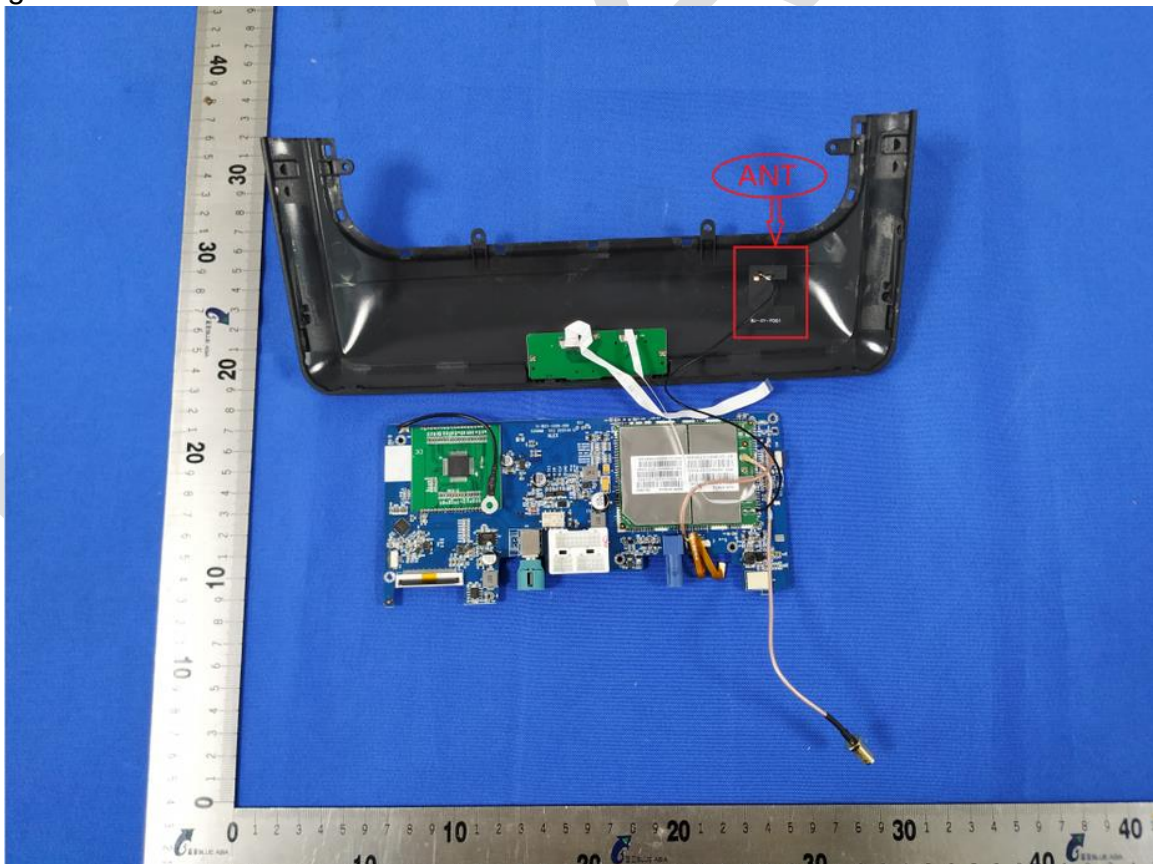
6.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 4.0dBi.



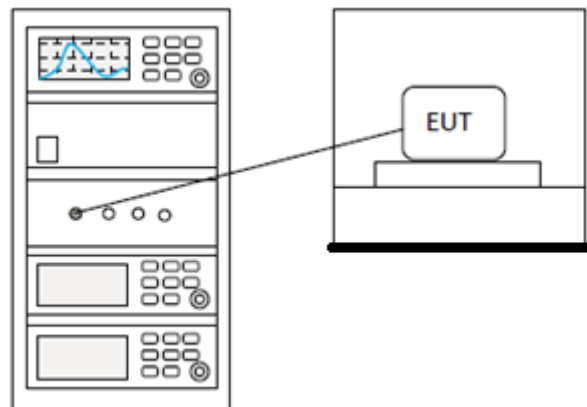
7 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Eason
Temperature	22°C
Humidity	50%

7.1 LIMITS

Limit:	$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission
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7.2 BLOCK DIAGRAM OF TEST SETUP



7.3 TEST DATA

Pass: Please Refer To Appendix: For Details

10 APPENDIX

10.1 APPENDIX A: DTS BANDWIDTH

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.640	2407.920	2416.560	≥ 0.5	PASS
		2437	8.640	2432.440	2441.080	≥ 0.5	PASS
		2462	8.080	2457.920	2466.000	≥ 0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	≥ 0.5	PASS
		2437	16.400	2428.800	2445.200	≥ 0.5	PASS
		2462	16.440	2453.760	2470.200	≥ 0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.440	2420.800	≥ 0.5	PASS
		2437	17.640	2428.160	2445.800	≥ 0.5	PASS
		2462	17.600	2453.200	2470.800	≥ 0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.320	2439.600	≥ 0.5	PASS
		2437	35.440	2419.160	2454.600	≥ 0.5	PASS
		2452	35.280	2434.320	2469.600	≥ 0.5	PASS

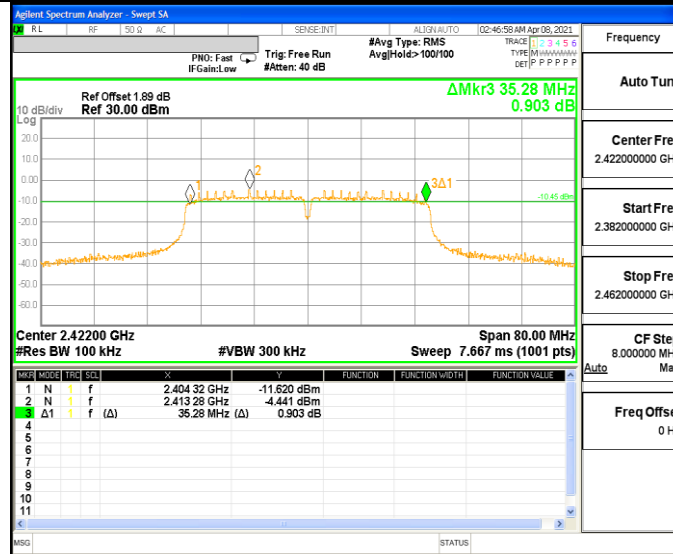
Test Graphs



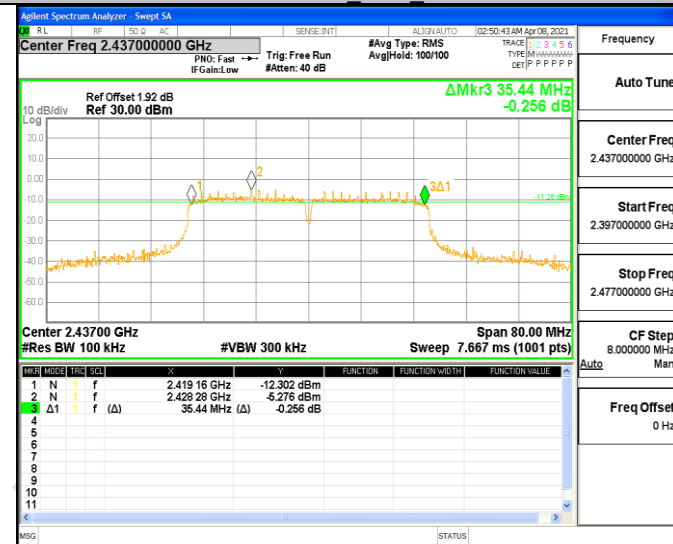




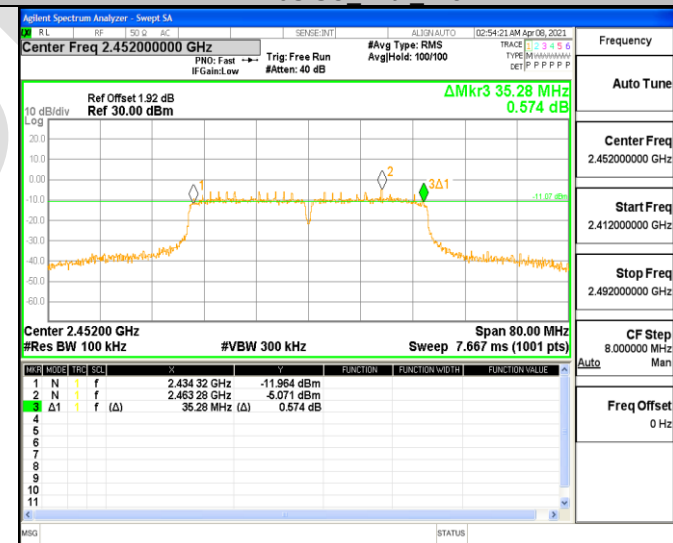
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



10.2 APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

Test Result

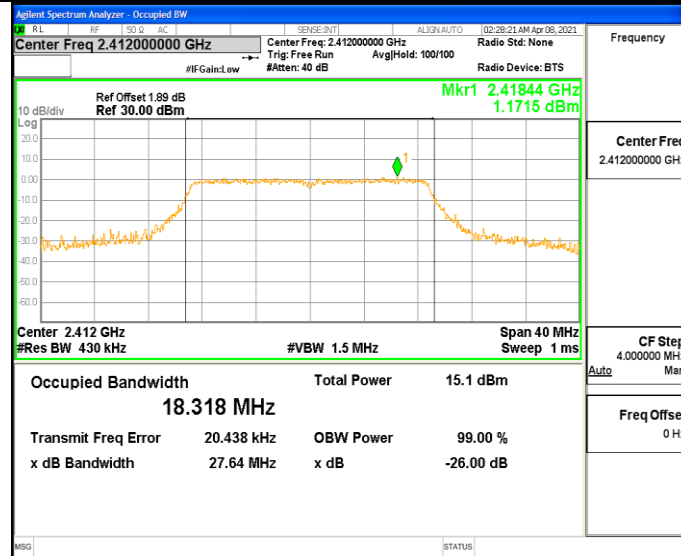
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.390	2405.363	2418.753	---	PASS
		2437	13.463	2430.223	2443.686	---	PASS
		2462	13.396	2455.318	2468.714	---	PASS
11G	Ant1	2412	17.386	2403.310	2420.696	---	PASS
		2437	17.463	2428.228	2445.691	---	PASS
		2462	17.428	2453.243	2470.671	---	PASS
11N20SISO	Ant1	2412	18.318	2402.861	2421.179	---	PASS
		2437	18.354	2427.797	2446.151	---	PASS
		2462	18.335	2452.840	2471.175	---	PASS
11N40SISO	Ant1	2422	36.355	2403.796	2440.151	---	PASS
		2437	36.609	2418.642	2455.251	---	PASS
		2452	36.622	2433.727	2470.349	---	PASS

Test Graphs

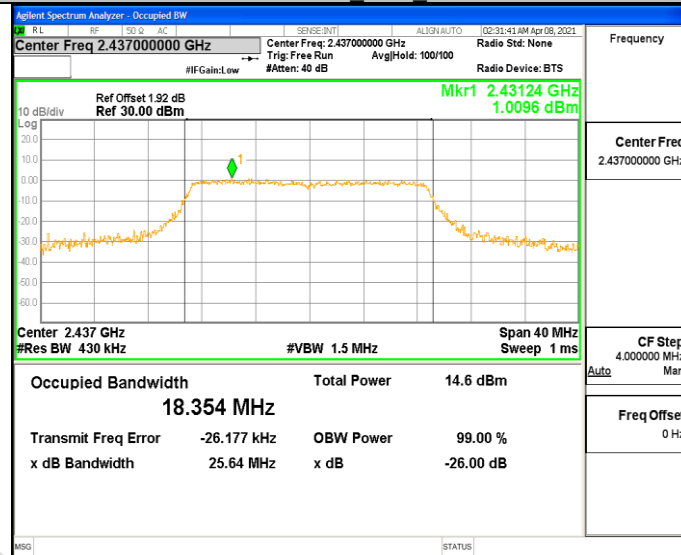




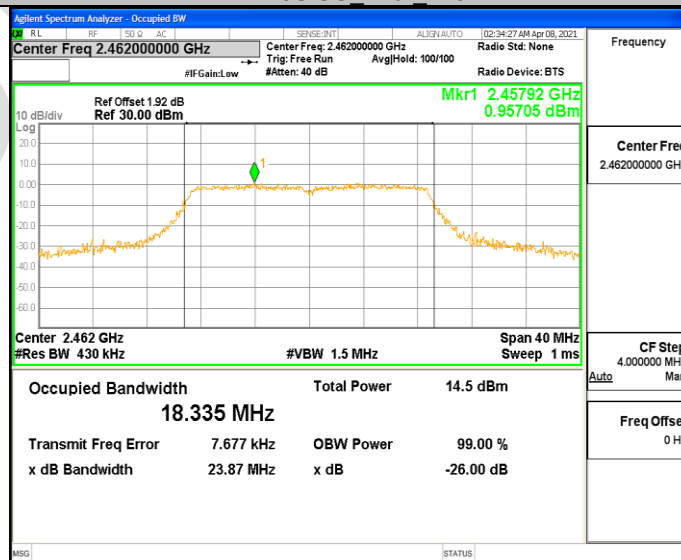
11N20SISO Ant1 2412



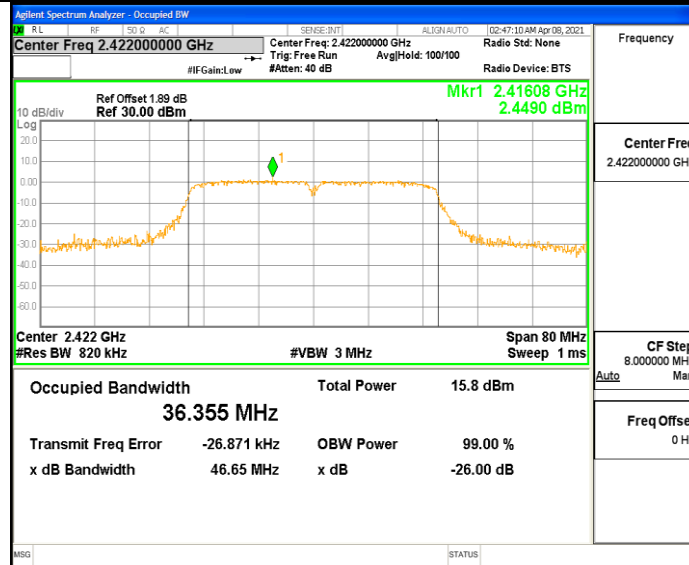
11N20SISO Ant1 2437



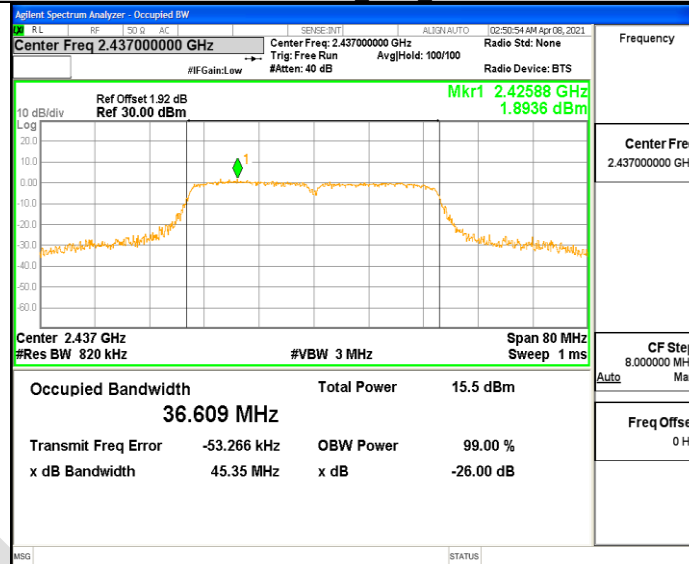
11N20SISO Ant1 2462



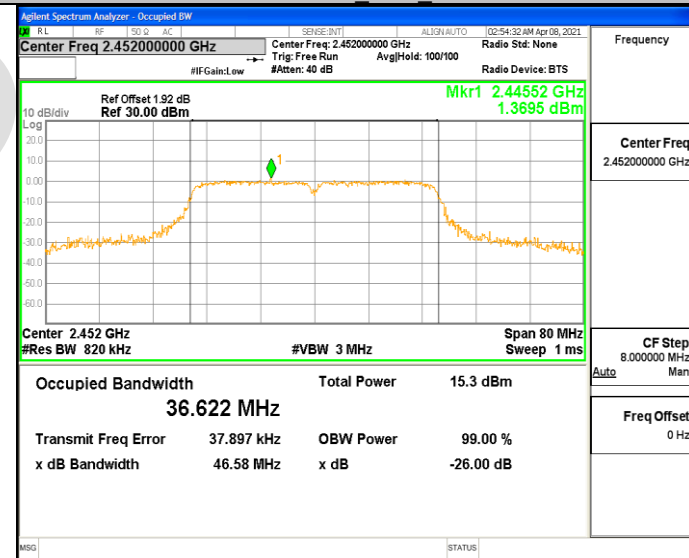
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



10.3 APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.12	<=30	PASS
		2437	12.53	<=30	PASS
		2462	12.41	<=30	PASS
11G	Ant1	2412	16.14	<=30	PASS
		2437	15.51	<=30	PASS
		2462	15.51	<=30	PASS
11N20SISO	Ant1	2412	16.14	<=30	PASS
		2437	15.51	<=30	PASS
		2462	15.52	<=30	PASS
11N40SISO	Ant1	2422	15.98	<=30	PASS
		2437	15.74	<=30	PASS
		2452	15.43	<=30	PASS