

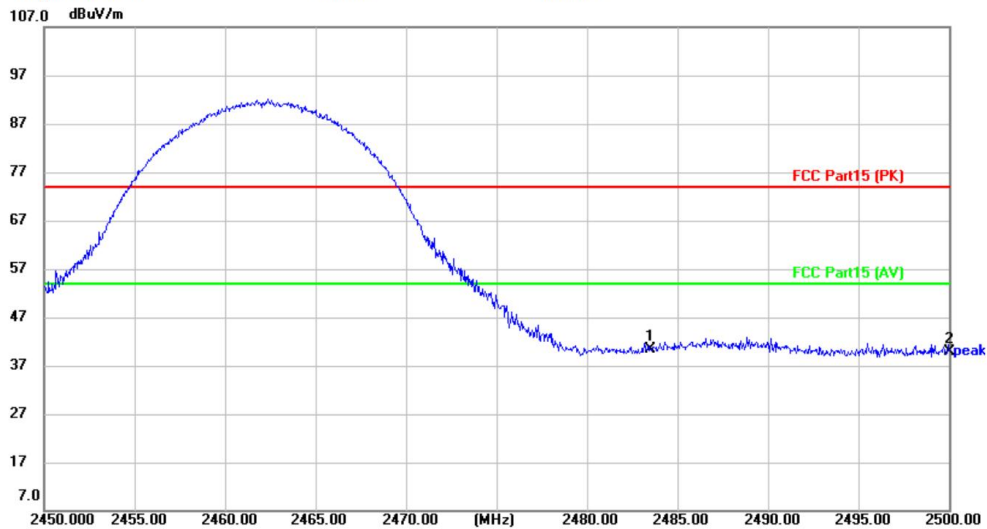
[Test mode: 802.11B TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH

Data :#23

2025/7/19



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SK509-W-2S-A		
M/N: 50333		
Mode: 2.4G-11B-2462		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	43.28	-2.91	40.37	74.00	-33.63	peak	
2		2500.000	42.90	-3.00	39.90	74.00	-34.10	peak	

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

Test Result: Pass

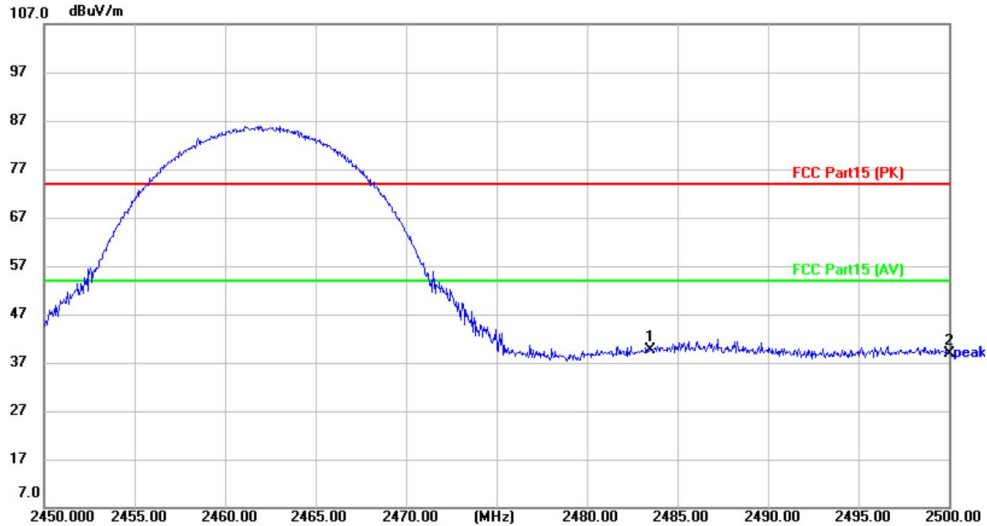
[Test mode: 802.11B TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH

Data :#24

2025/7/19



Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SK509-W-2S-A		
M/N: 50333		
Mode: 2.4G-11B-2462		
Note:		

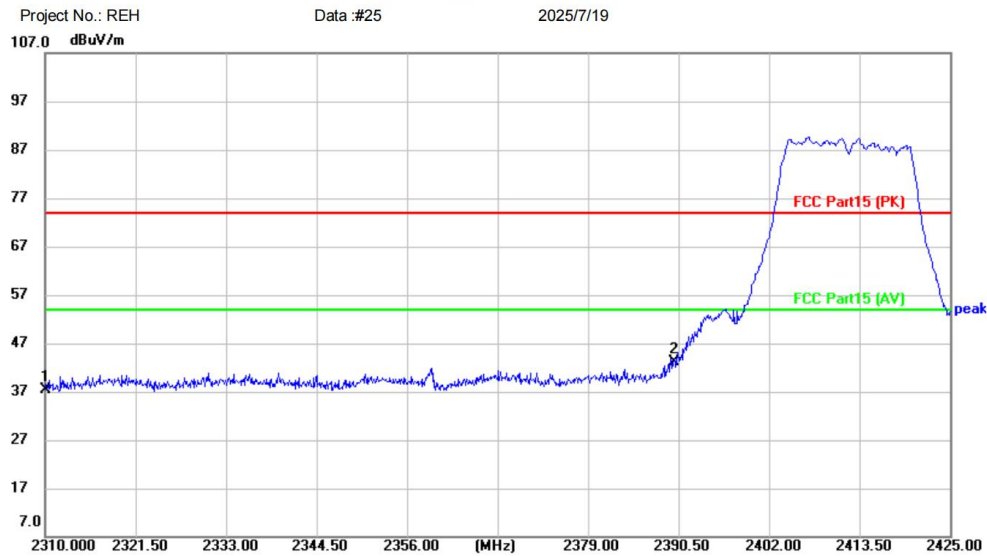
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2483.500	42.50	-2.91	39.59	74.00	-34.41	peak	
2		2500.000	41.97	-3.00	38.97	74.00	-35.03	peak	

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

Test Result: Pass

[Test mode: 802.11G TX low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: SK509-W-2S-A
M/N: 50333
Mode: 2.4G-11G-2412
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	40.35	-2.87	37.48	74.00	-36.52	peak	
2	*	2390.000	45.50	-2.44	43.06	74.00	-30.94	peak	

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

⟨Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

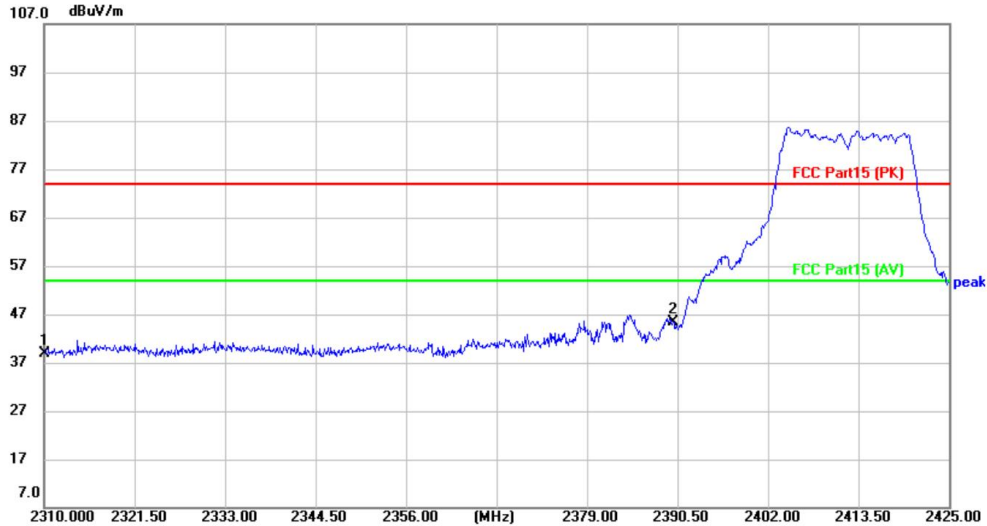
[Test mode: 802.11G TX low channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH

Data :#26

2025/7/19



Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: SK509-W-2S-A
M/N: 50333
Mode: 2.4G-11G-2412
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	41.77	-2.87	38.90	74.00	-35.10	peak	
2	*	2390.000	47.88	-2.44	45.44	74.00	-28.56	peak	

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

(Reference Only)

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

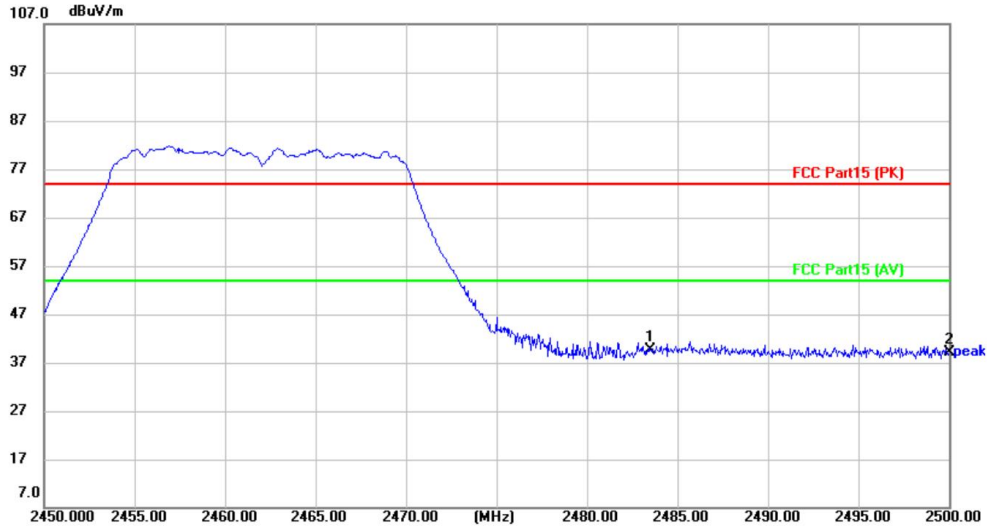
[Test mode: 802.11G TX High channel]; [Polarity: Horizontal]

Radiated Emission Measurement

Project No.: REH

Data :#27

2025/7/19



Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SK509-W-2S-A		
M/N: 50333		
Mode: 2.4G-11G-2462		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	42.63	-2.91	39.72	74.00	-34.28	peak	
2		2500.000	42.14	-3.00	39.14	74.00	-34.86	peak	

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

Test Result: Pass

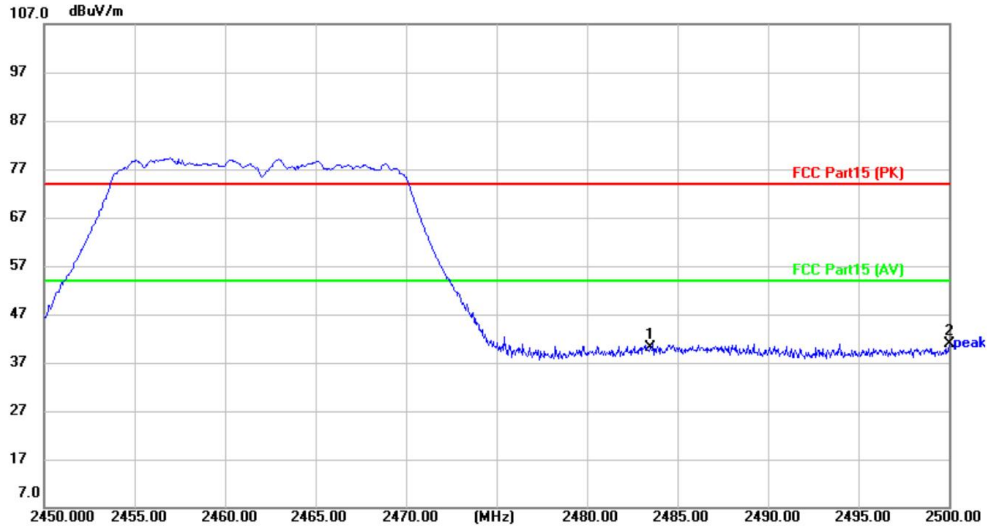
[Test mode: 802.11G TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: REH

Data :#28

2025/7/19



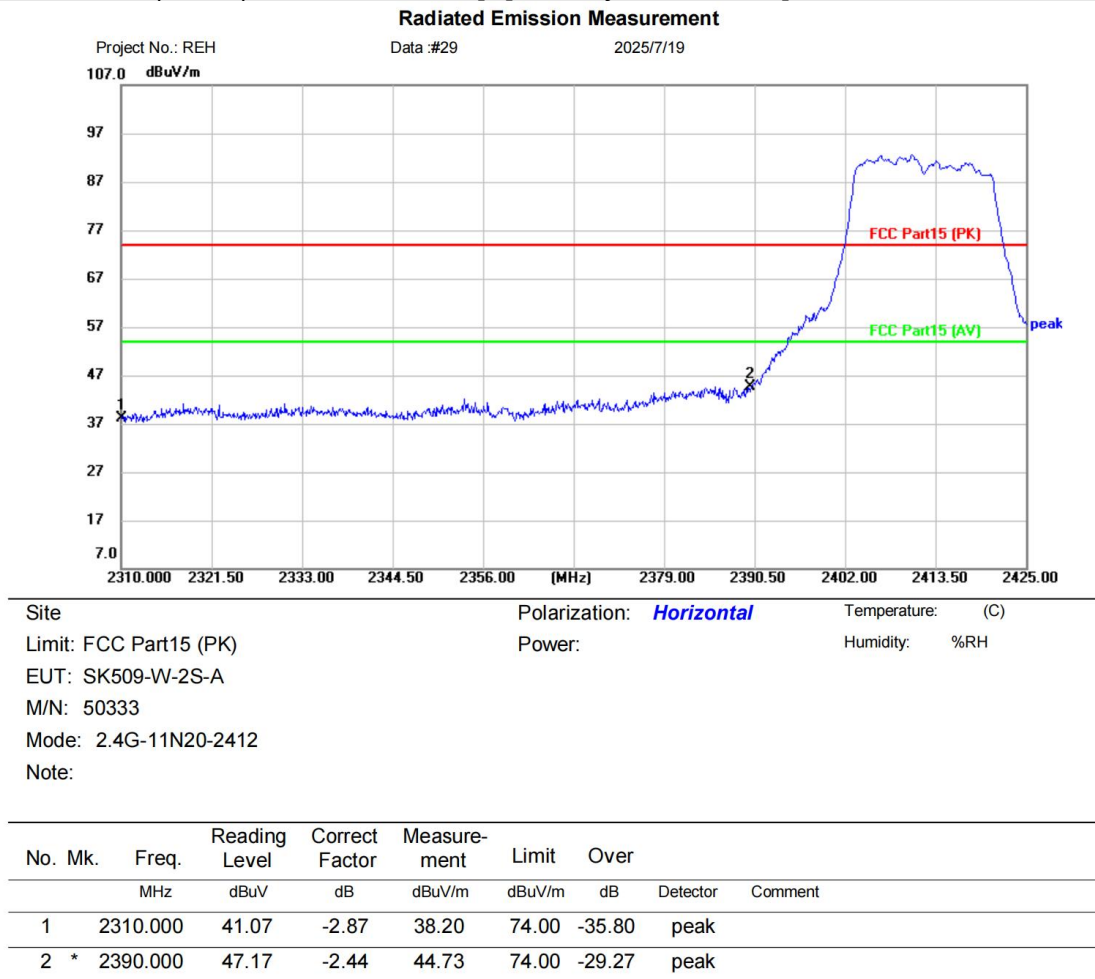
Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: SK509-W-2S-A		
M/N: 50333		
Mode: 2.4G-11G-2462		
Note:		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	43.00	-2.91	40.09	74.00	-33.91	peak	
2	*	2500.000	43.80	-3.00	40.80	74.00	-33.20	peak	

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

Test Result: Pass

[Test mode: 802.11N(HT20) TX low channel]; [Polarity: Horizontal]

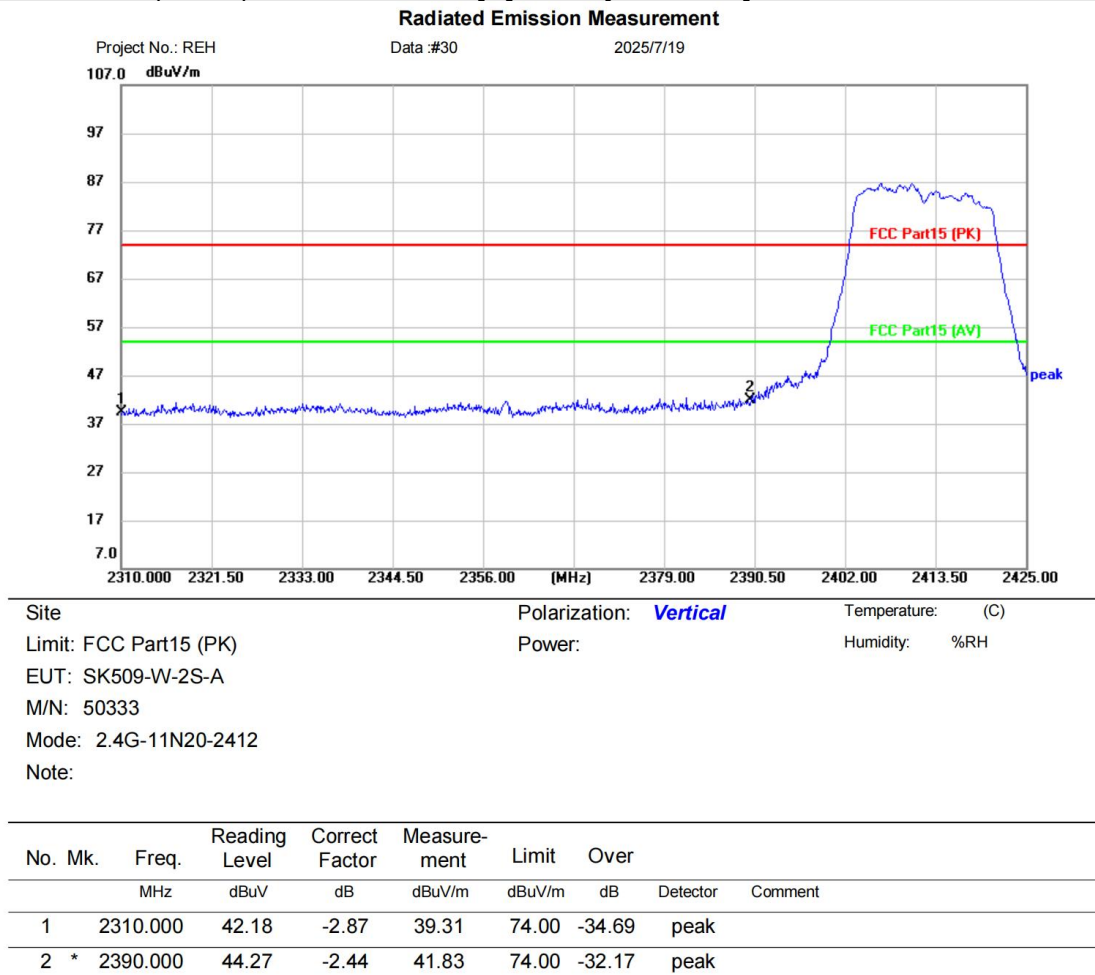


*:Maximum data x:Over limit !:over margin <Reference Only

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX low channel]; [Polarity: Vertical]



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

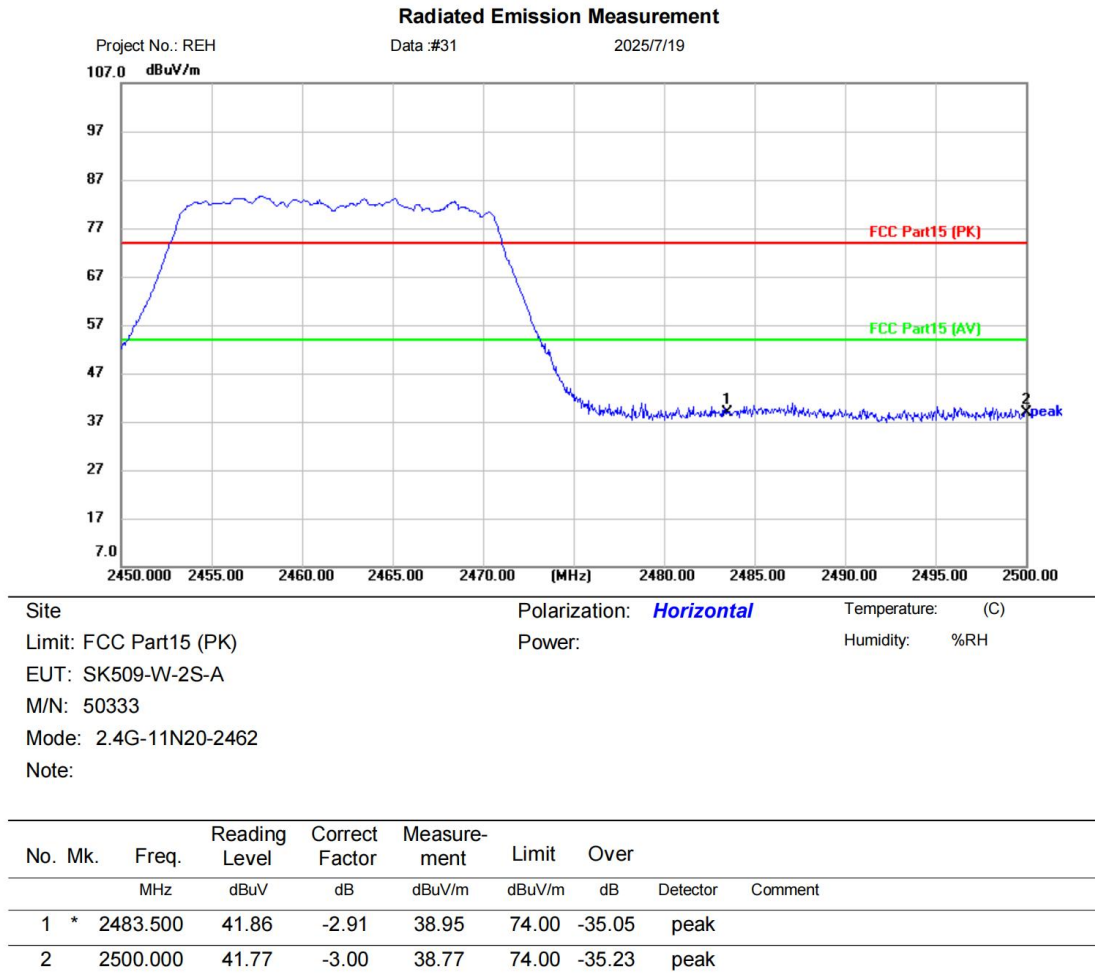
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX High channel]; [Polarity: Horizontal]



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

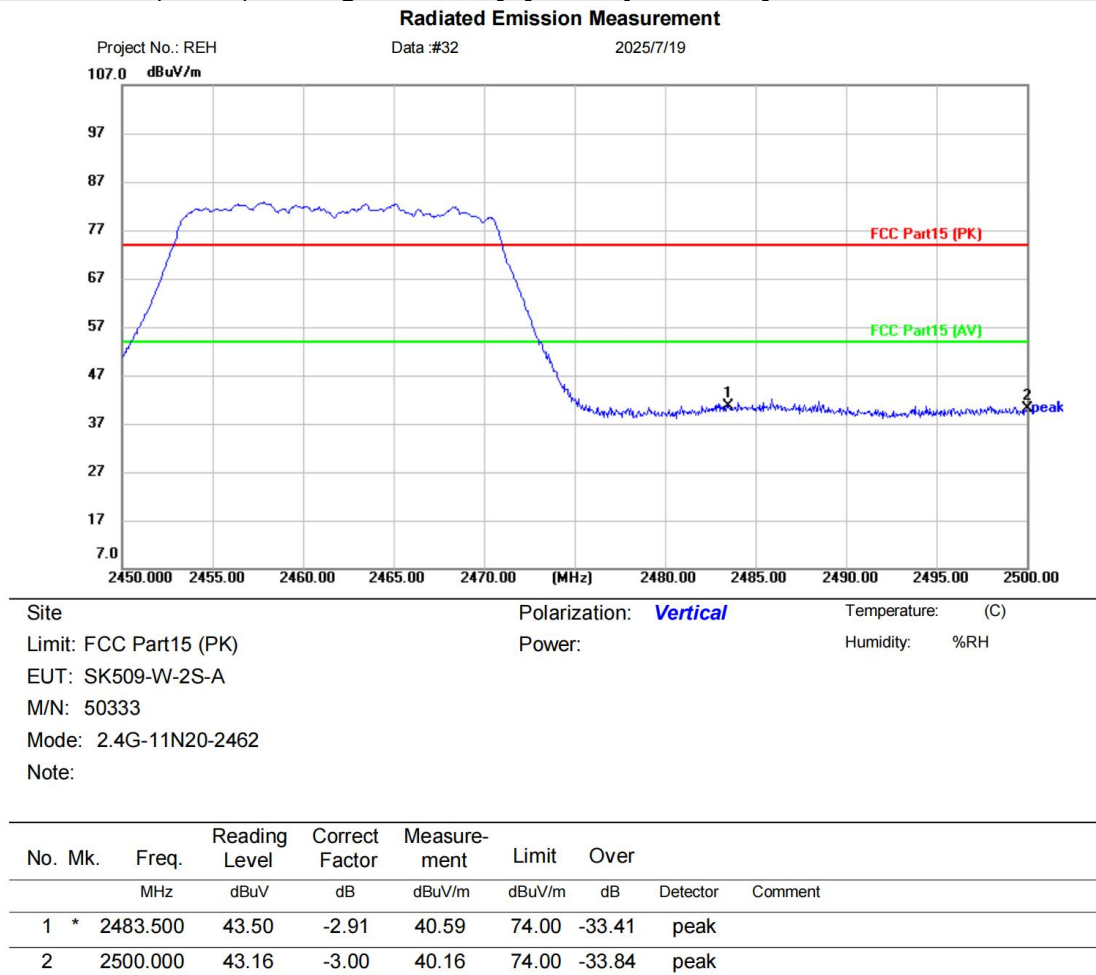
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT20) TX High channel]; [Polarity: Vertical]



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

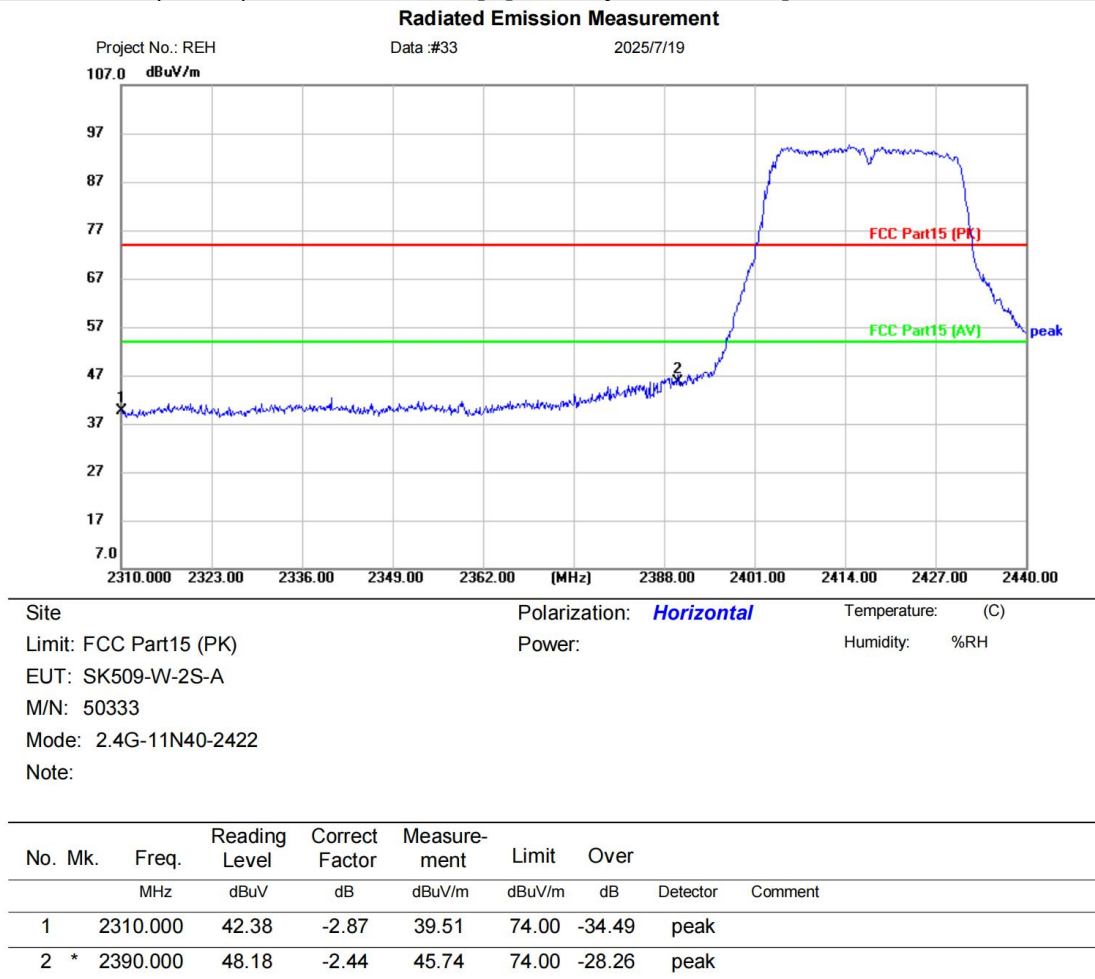
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX low channel]; [Polarity: Horizontal]



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

<Reference Only

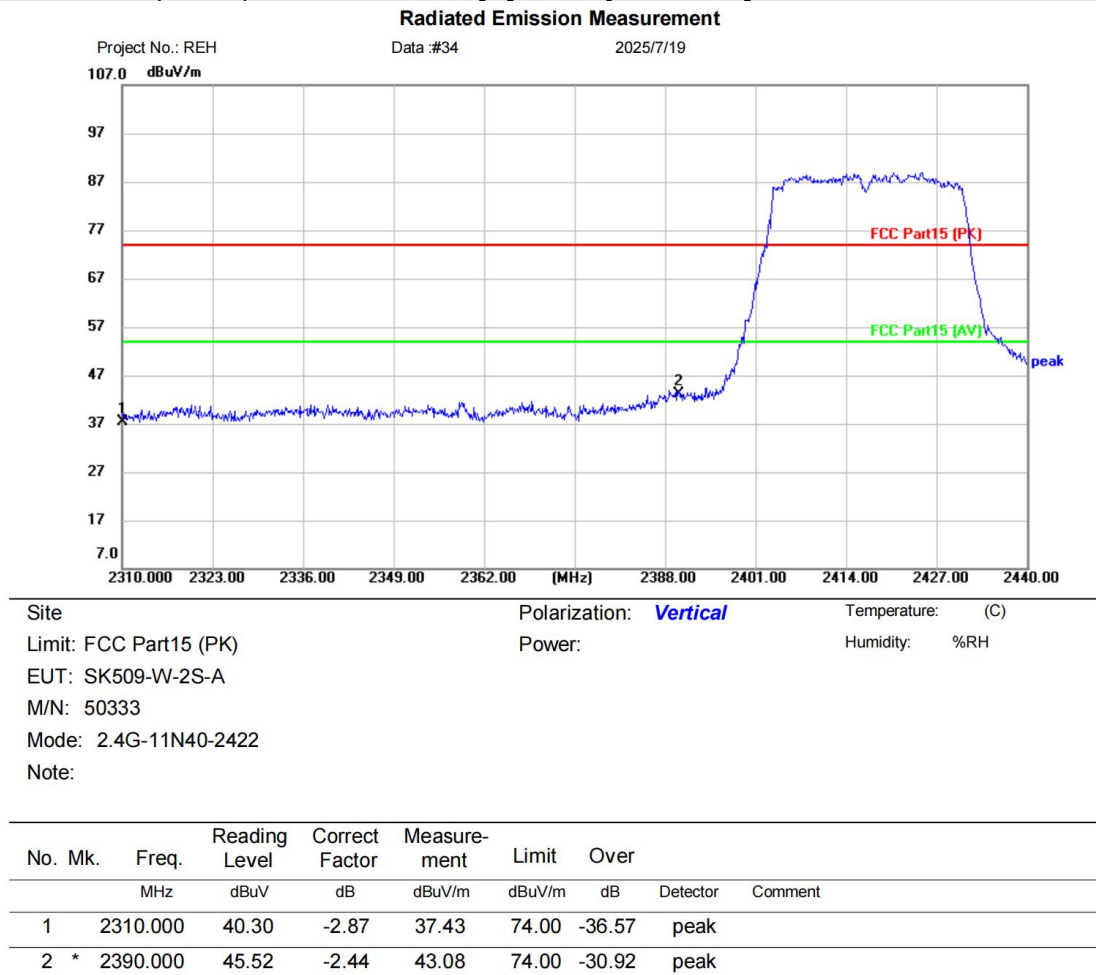
Receiver: ESR_1

Spectrum Analyzer:

FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX low channel]; [Polarity: Vertical]



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

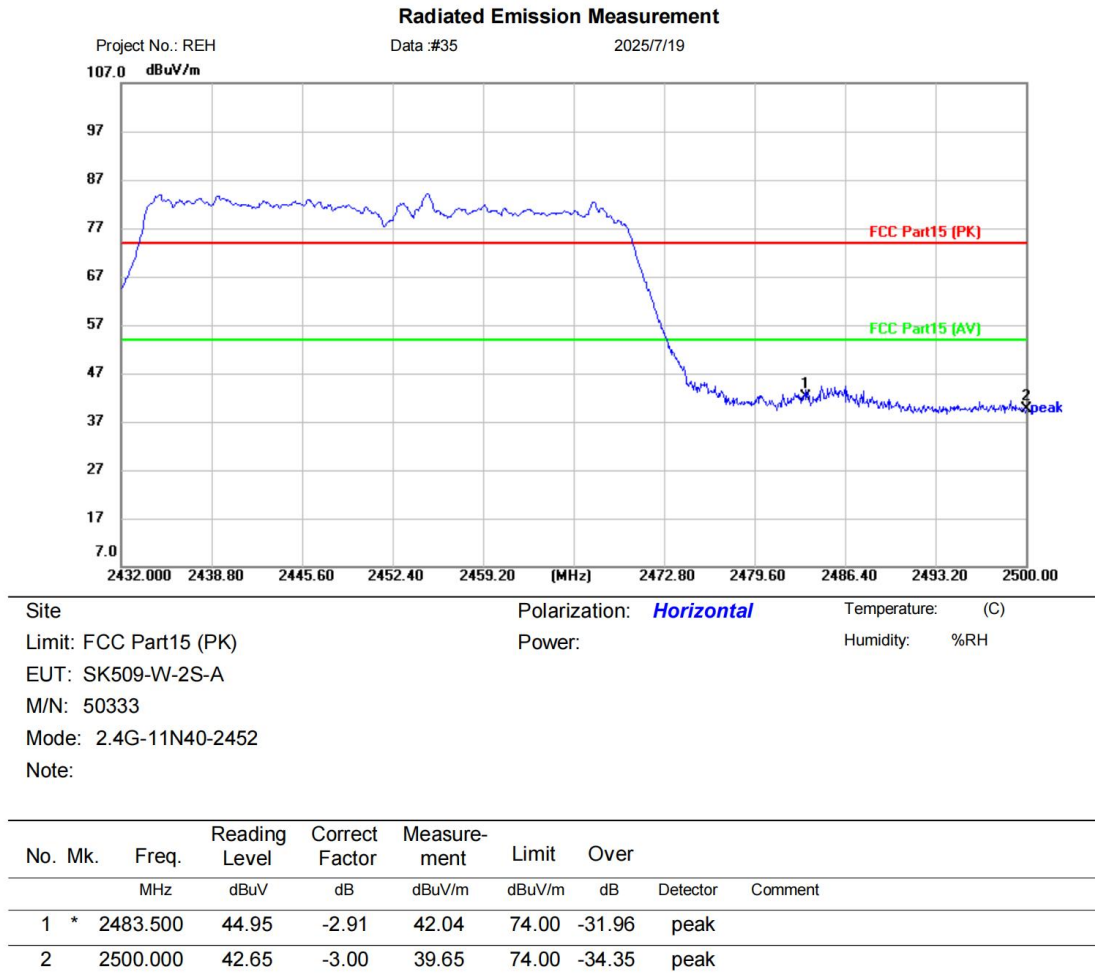
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX High channel]; [Polarity: Horizontal]



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

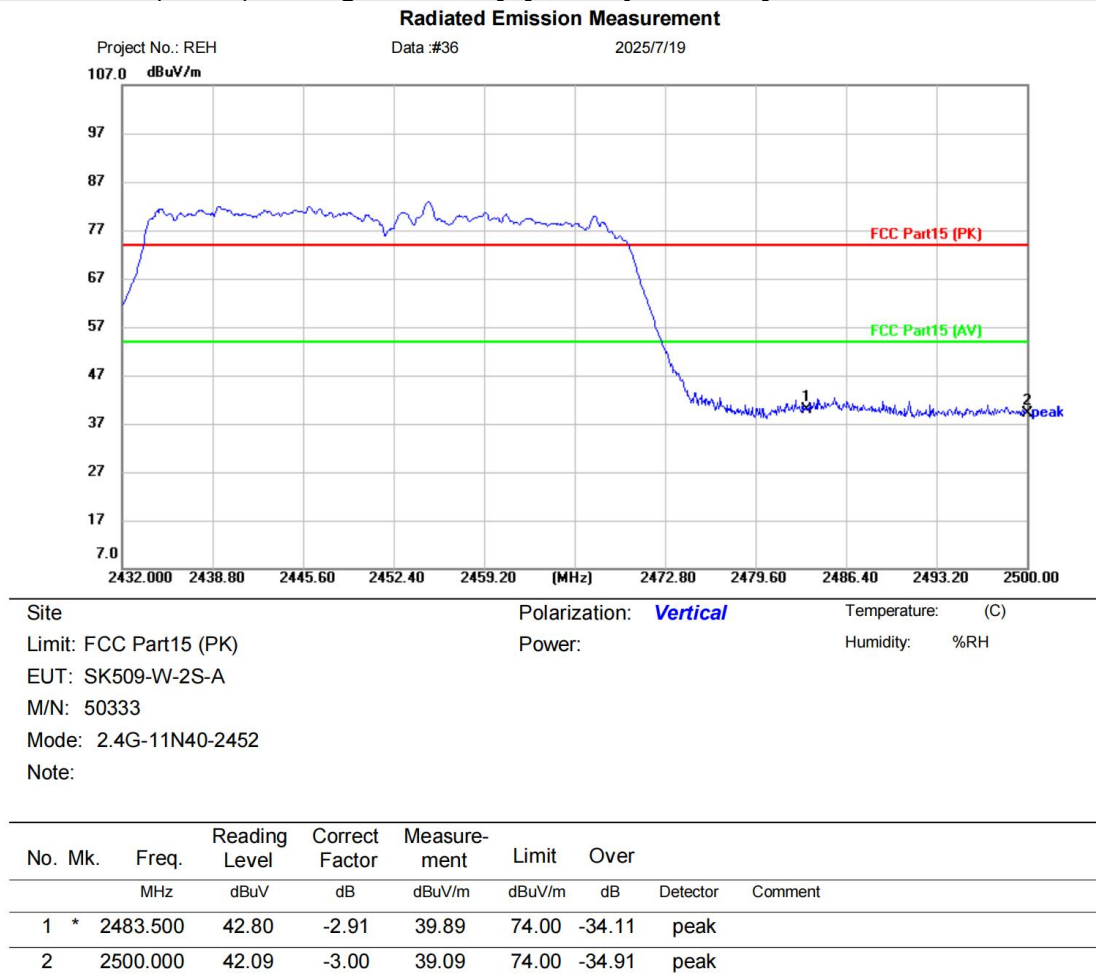
⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: 802.11N(HT40) TX High channel]; [Polarity: Vertical]



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

⟨Reference Only

Receiver: ESR_1

Spectrum Analyzer: FSP40

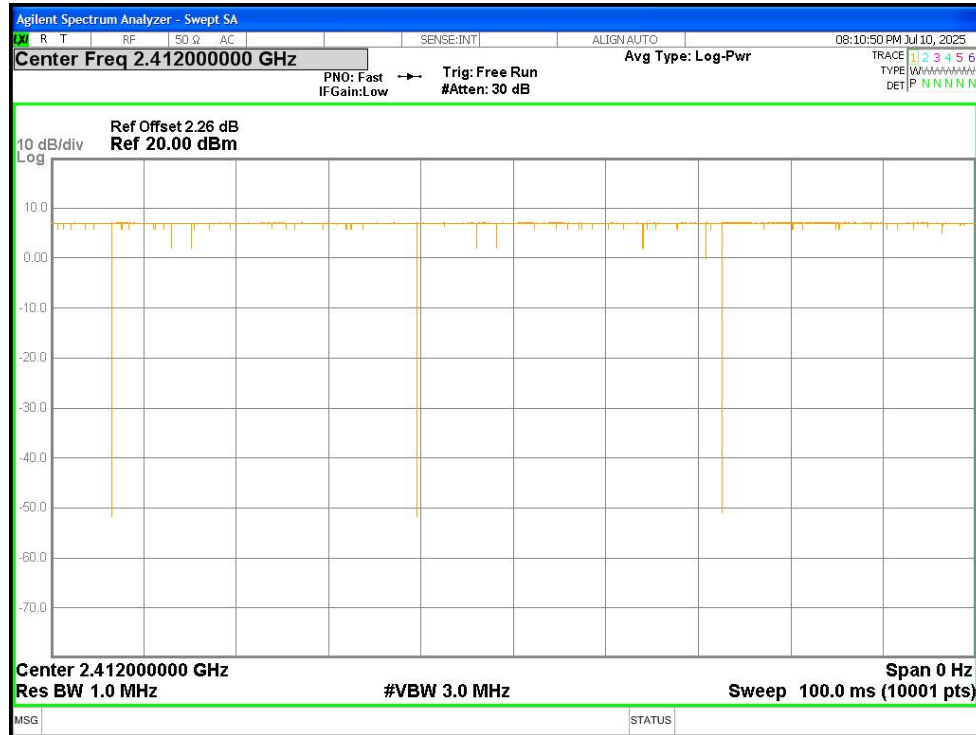
Test Result: Pass

7 Appendix A

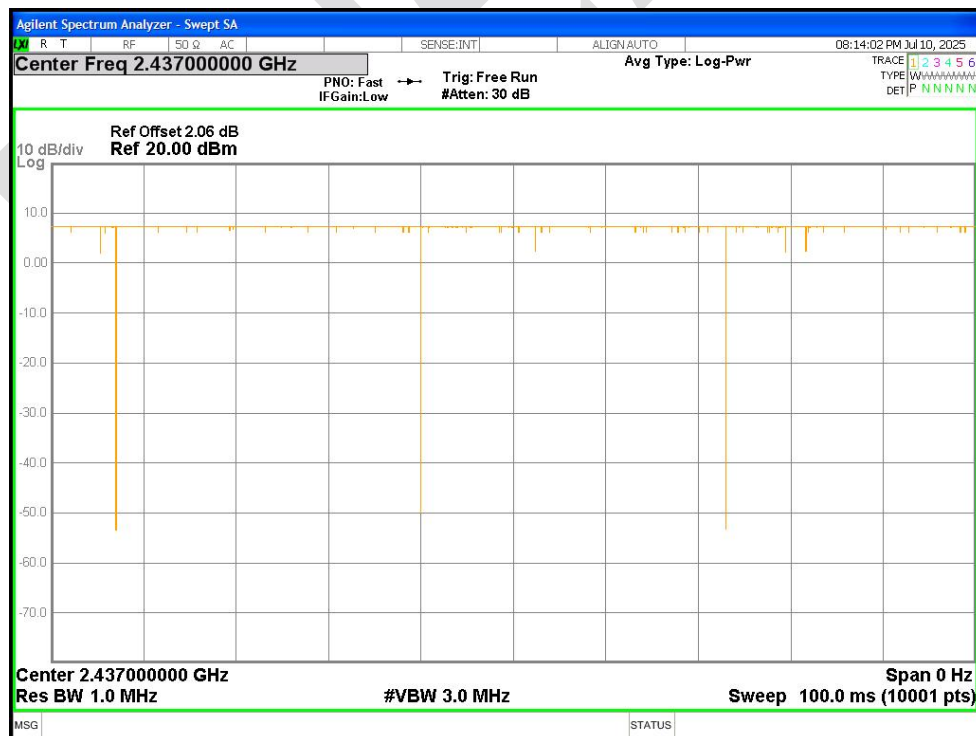
7.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	99.97	0
NVNT	b	2437	Ant1	99.97	0
NVNT	b	2462	Ant1	99.97	0
NVNT	g	2412	Ant1	99.64	0.02
NVNT	g	2437	Ant1	99.82	0.01
NVNT	g	2462	Ant1	99.64	0.02
NVNT	n20	2412	Ant1	99.71	0.01
NVNT	n20	2437	Ant1	99.72	0.01
NVNT	n20	2462	Ant1	99.7	0.01
NVNT	n40	2422	Ant1	99.43	0.02
NVNT	n40	2437	Ant1	99.42	0.03
NVNT	n40	2452	Ant1	99.41	0.03

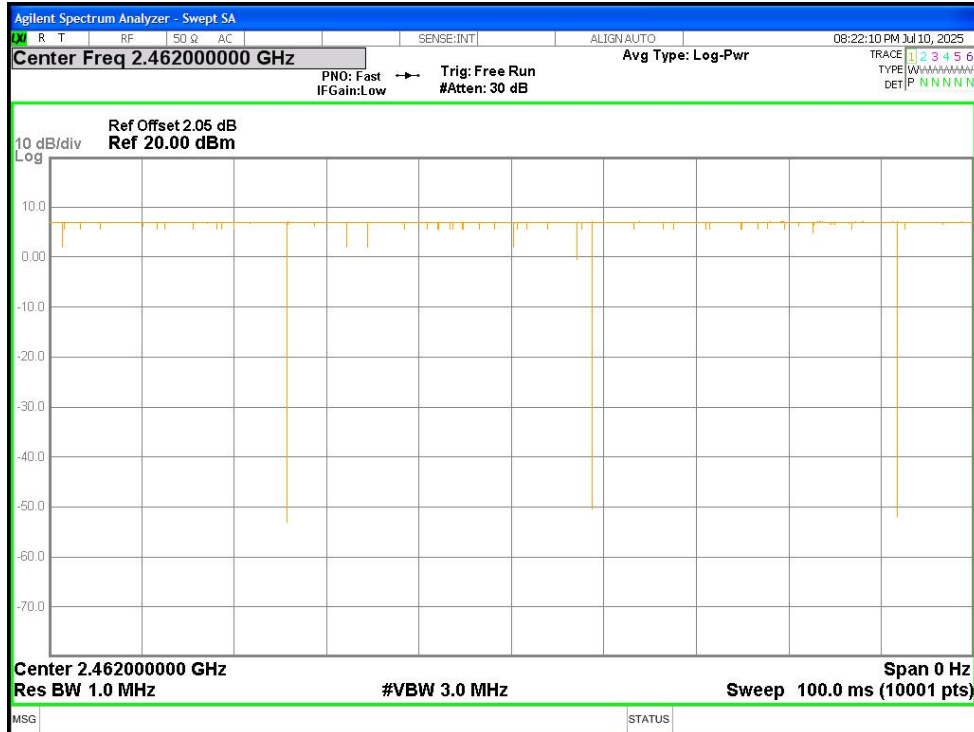
Duty Cycle NVNT b 2412MHz Ant1



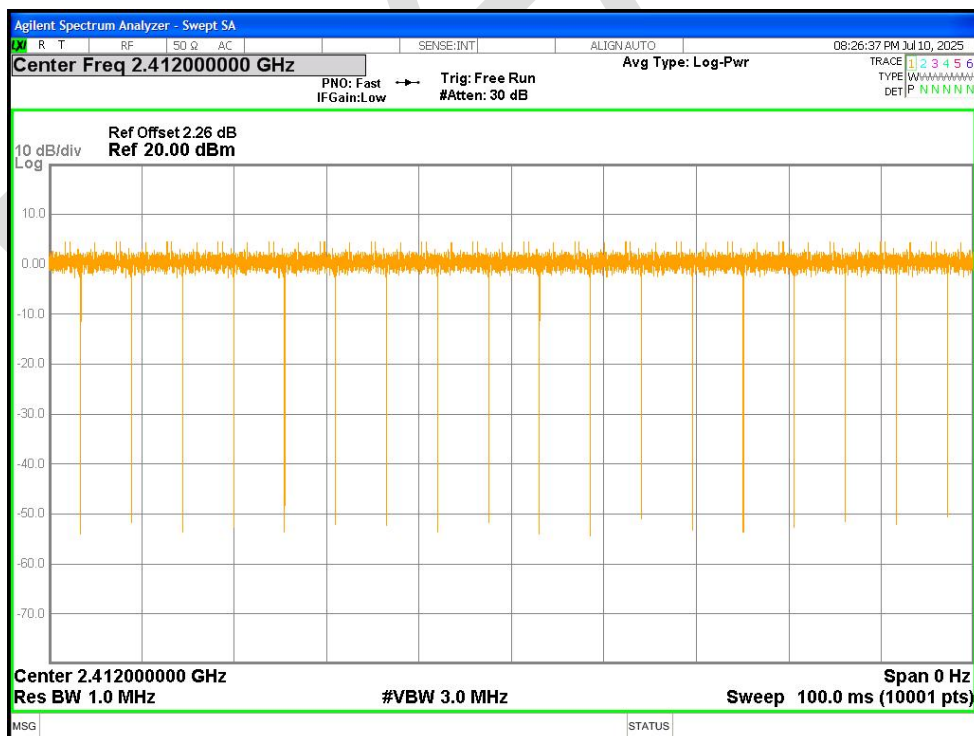
Duty Cycle NVNT b 2437MHz Ant1



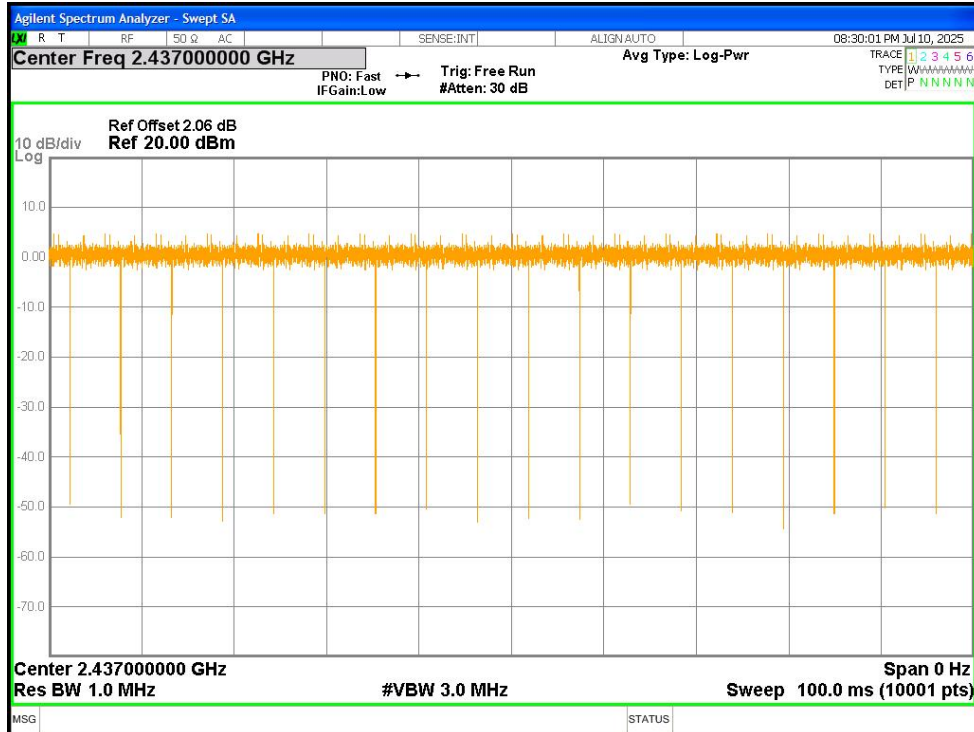
Duty Cycle NVNT b 2462MHz Ant1



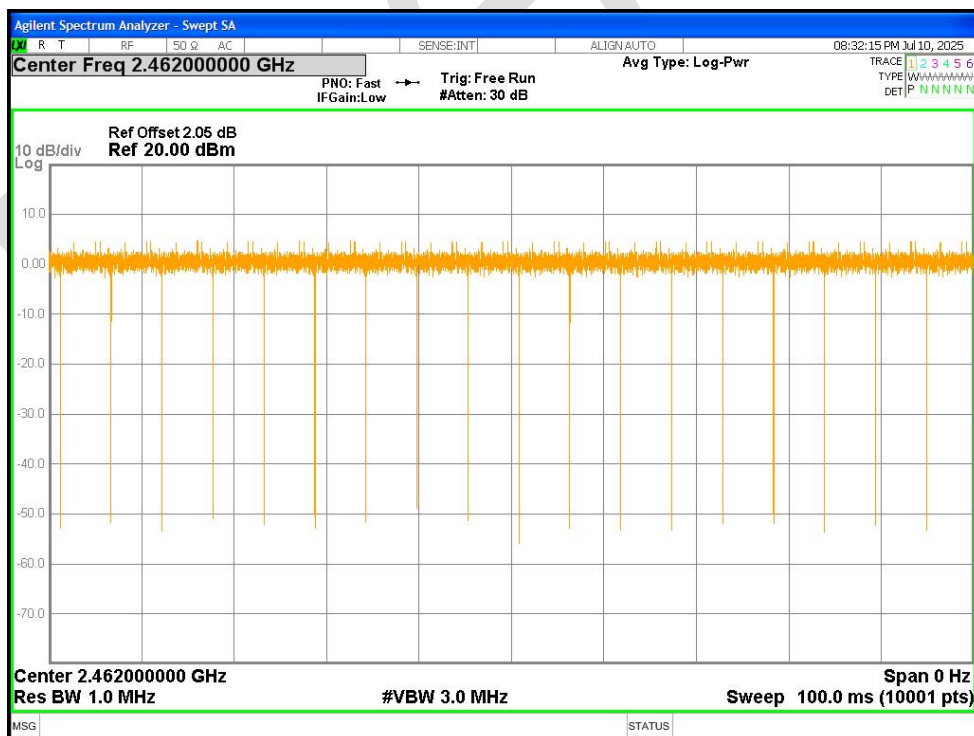
Duty Cycle NVNT g 2412MHz Ant1



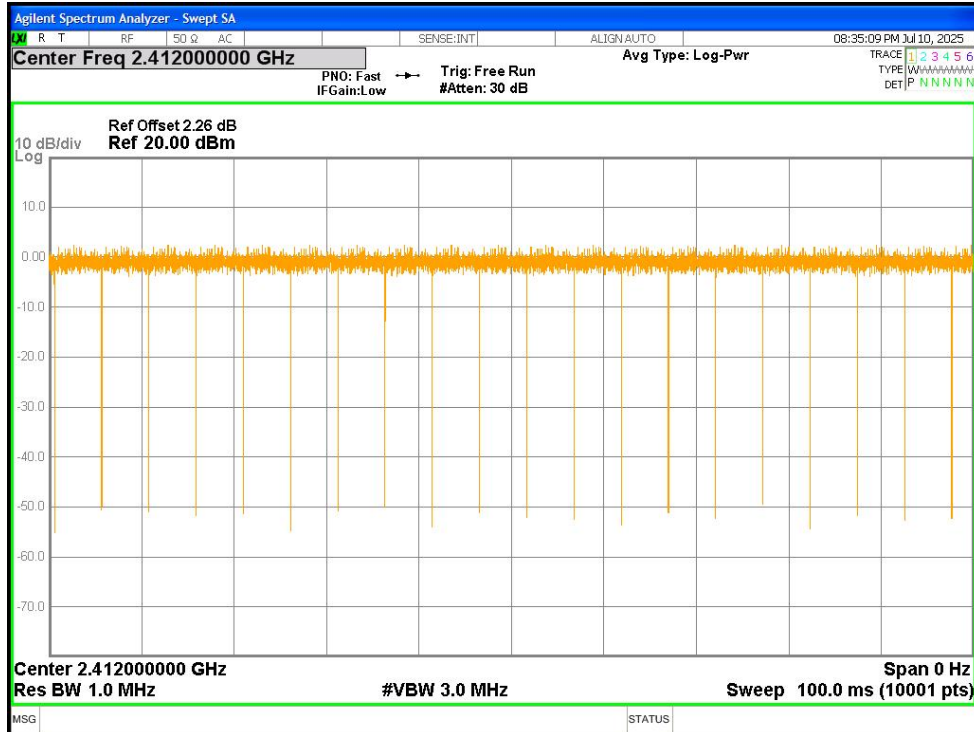
Duty Cycle NVNT g 2437MHz Ant1



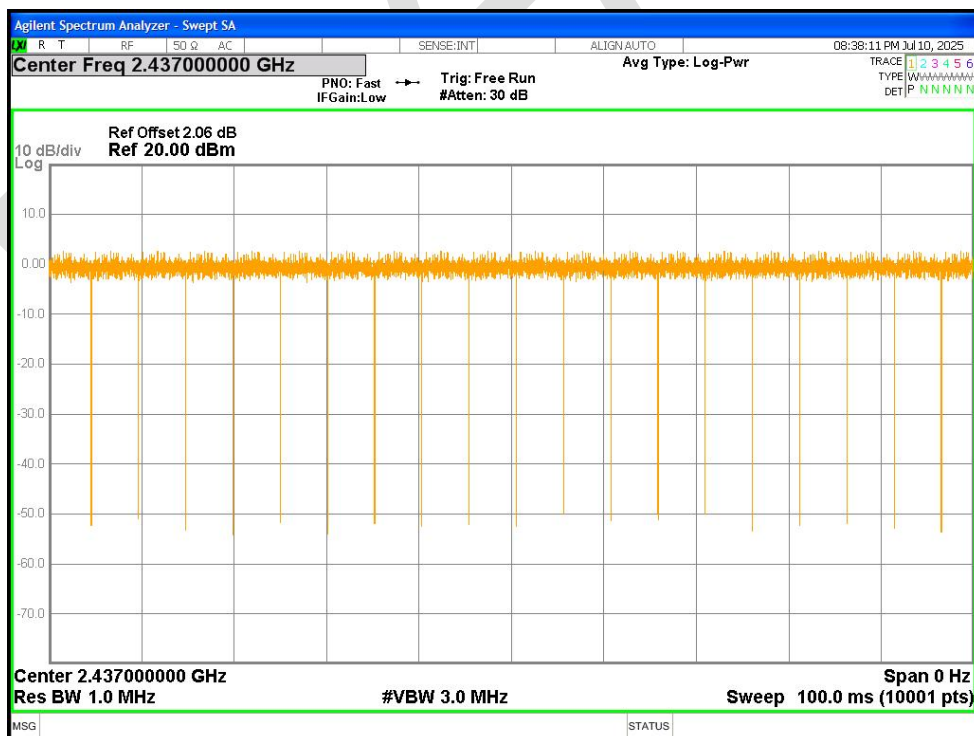
Duty Cycle NVNT g 2462MHz Ant1



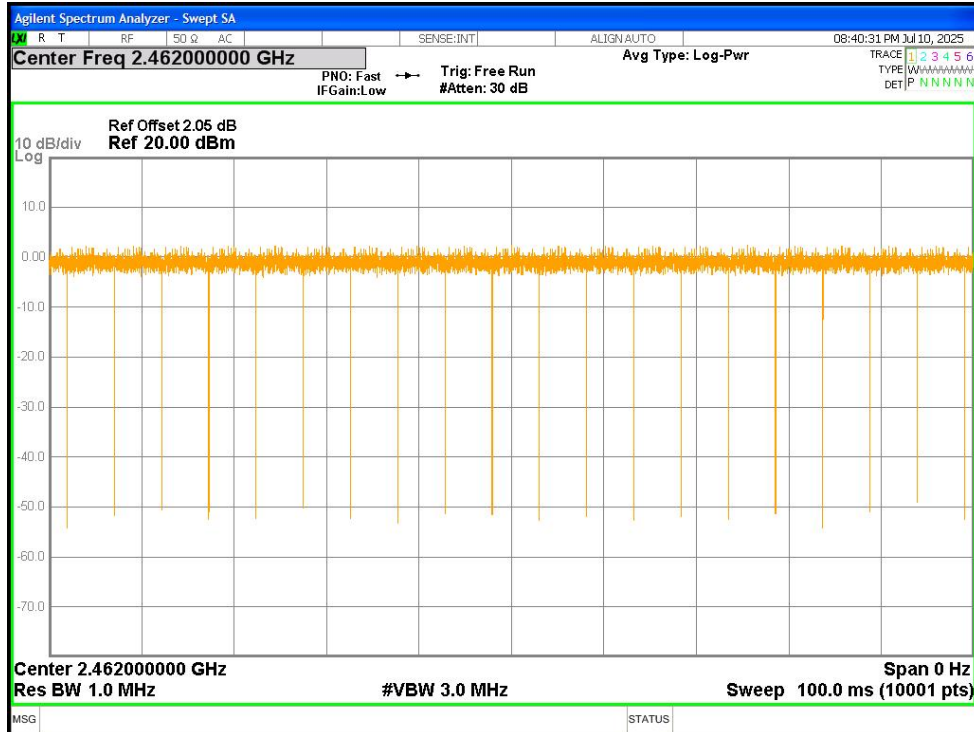
Duty Cycle NVNT n20 2412MHz Ant1



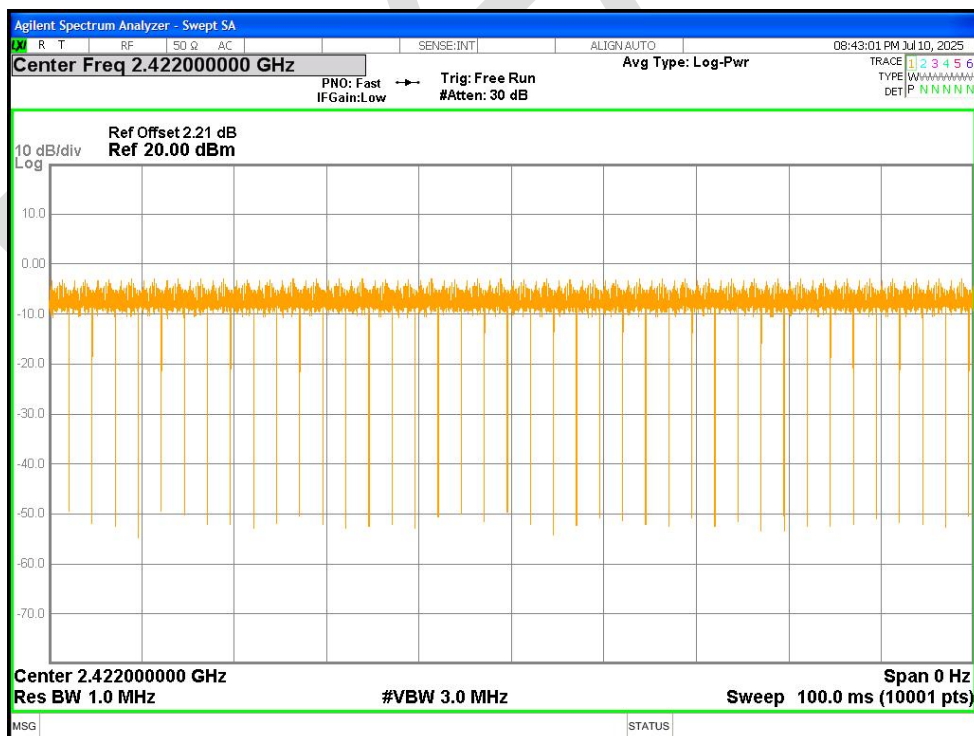
Duty Cycle NVNT n20 2437MHz Ant1



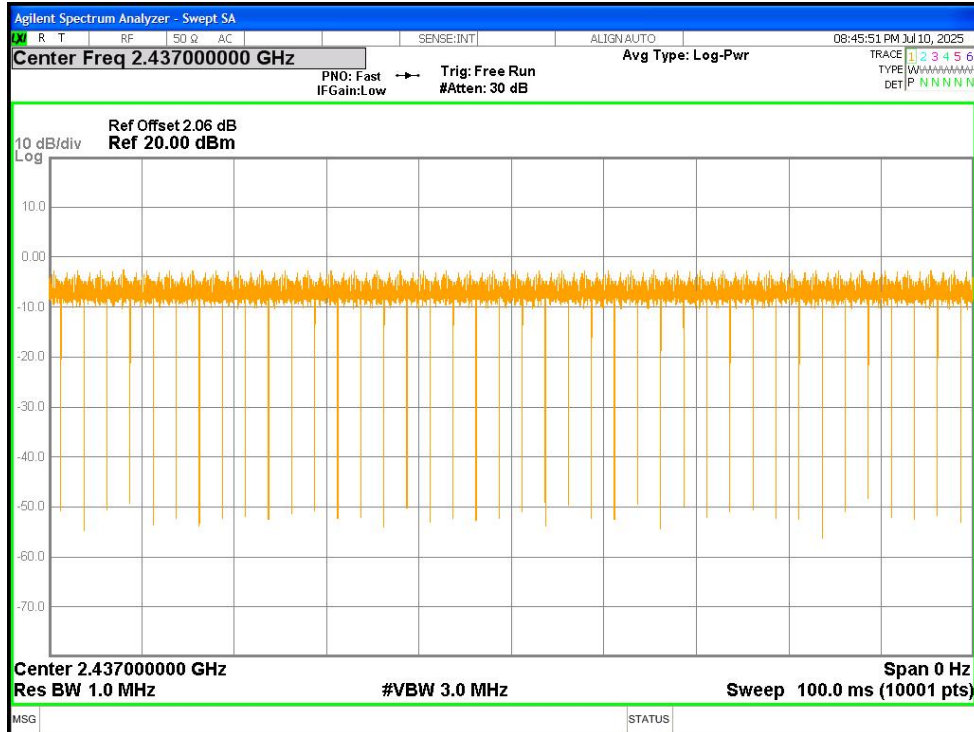
Duty Cycle NVNT n20 2462MHz Ant1



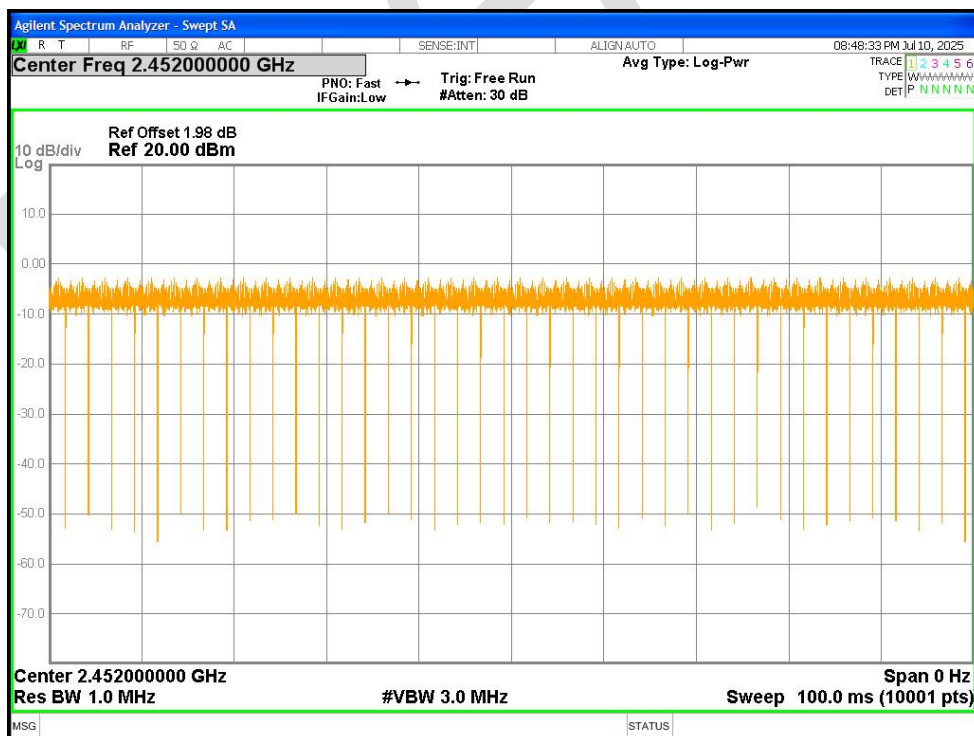
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



7.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.69	30	Pass
NVNT	b	2437	Ant1	13.74	30	Pass
NVNT	b	2462	Ant1	13.36	30	Pass
NVNT	g	2412	Ant1	11.89	30	Pass
NVNT	g	2437	Ant1	12.01	30	Pass
NVNT	g	2462	Ant1	12.01	30	Pass
NVNT	n20	2412	Ant1	10.86	30	Pass
NVNT	n20	2437	Ant1	11.04	30	Pass
NVNT	n20	2462	Ant1	10.81	30	Pass
NVNT	n40	2422	Ant1	10.31	30	Pass
NVNT	n40	2437	Ant1	10.15	30	Pass
NVNT	n40	2452	Ant1	10.31	30	Pass