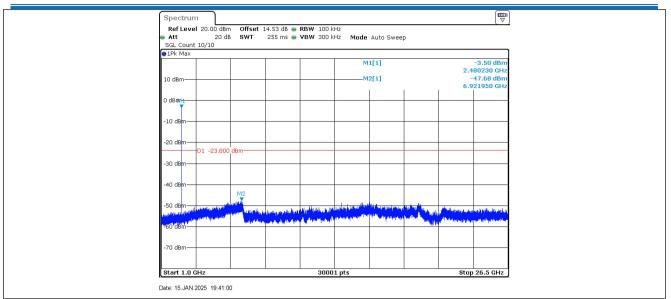




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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

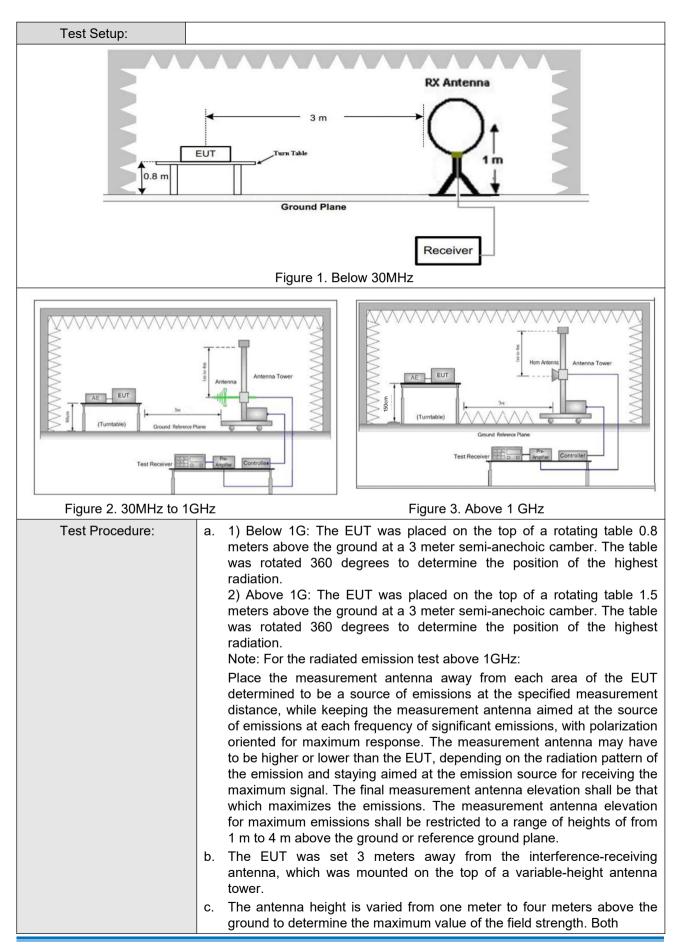


## 5.8 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205						
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013								
Test Site:	Measurement Distance	: 3m	n (Semi-Anecł	noic Cham	ber)					
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak				
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average				
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak				
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz	Quasi-peak				
	Above 1GHz		Peak	1MHz	: 3MHz	Peak				
			Peak	1MHz	: 10Hz	Average				
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremo distance (r				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30				
	1.705MHz-30MHz		30	-	-	30				
	30MHz-88MHz		100	40.0	Quasi-peak	3				
	88MHz-216MHz		150	43.5	Quasi-peak	3				
	216MHz-960MHz		200	46.0	Quasi-peak	3				
	960MHz-1GHz		500	54.0	Quasi-peak	3				
	Above 1GHz		500	54.0	Average	3				
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.									

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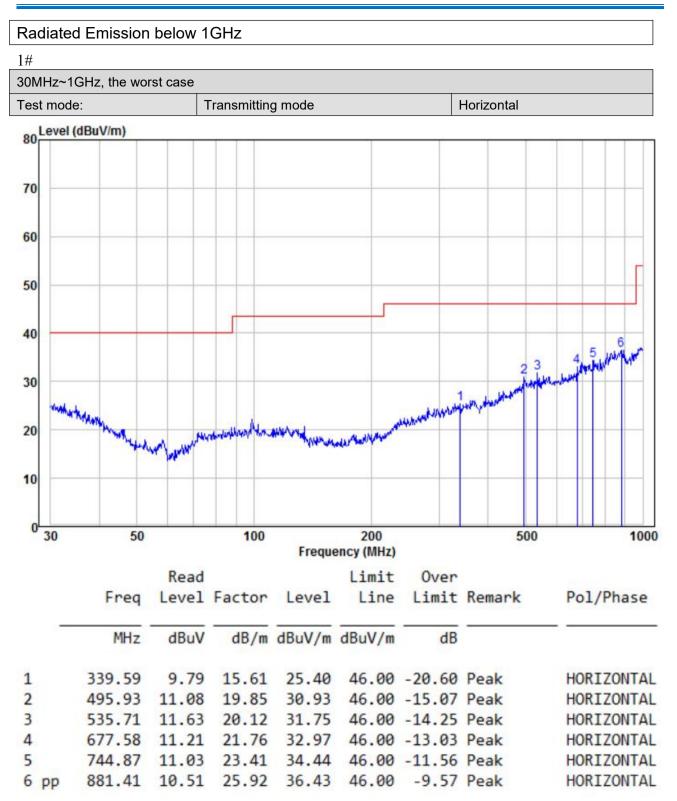






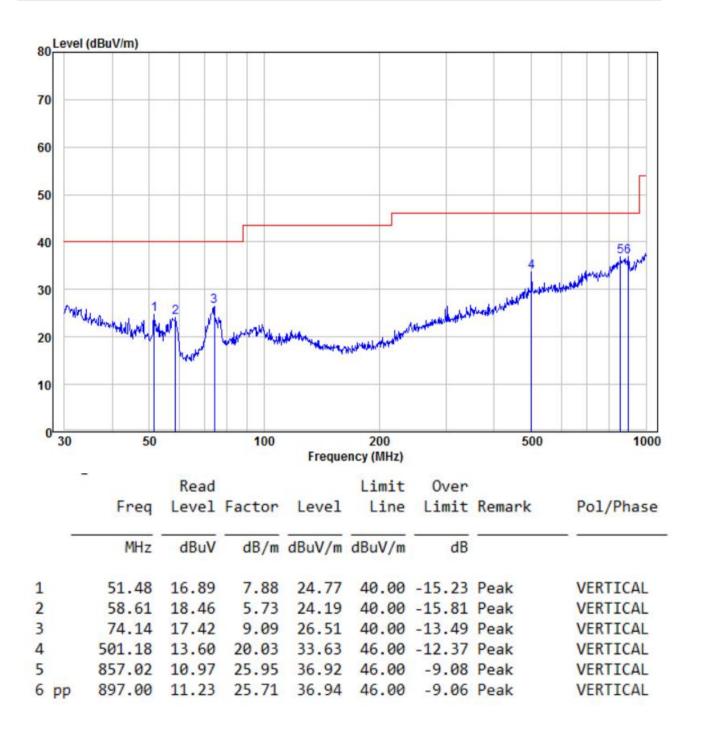
	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. 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.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. 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.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Transmitting mode, found Transmitting mode which it is
	worse case.
	For below 1GHz part, through pre-scan, the worst case is the lowest
	channel.
	Only the worst case is recorded in the report.
Test Results:	Pass







30MHz~1GHz, the worst case					
Test mode:	Transmitting mode	Vertical			





### Transmitter Emission above 1GHz

Worse case mode:		GFSK(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	55.29	-9.2	46.09	74	-27.91	Peak	Н
2400	55.10	-9.39	45.71	74	-28.29	Peak	Н
4804	51.32	-4.33	46.99	74	-27.01	Peak	Н
7206	50.69	1.01	51.70	74	-22.30	Peak	Н
2390	54.18	-9.2	44.98	74	-29.02	Peak	V
2400	52.99	-9.39	43.60	74	-30.40	Peak	V
4804	54.01	-4.33	49.68	74	-24.32	Peak	V
7206	49.25	1.01	50.26	74	-23.74	Peak	V

Worse case m	/orse case mode:		GFSK(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	
4880	51.29	-4.11	47.18	74	-26.82	peak	Н	
7320	50.37	1.51	51.88	74	-22.12	peak	Н	
4880	52.00	-4.11	47.89	74	-26.11	peak	V	
7320	49.92	1.51	51.43	74	-22.57	peak	V	

Worse case m	Worse case mode:		GFSK(1Mbps)		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.22	-9.29	46.93	74	-27.07	Peak	Н
4960	50.75	-4.04	46.71	74	-27.29	Peak	Н
7440	51.03	1.57	52.60	74	-21.40	Peak	Н
2483.5	56.07	-9.29	46.78	74	-27.22	Peak	V
4960	51.66	-4.04	47.62	74	-26.38	Peak	V
7440	48.28	1.57	49.85	74	-24.15	Peak	V



Worse case mode:		GFSK(2Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.49	-9.2	45.29	74	-28.71	Peak	Н
2400	55.99	-9.39	46.60	74	-27.40	Peak	Н
4804	52.85	-4.33	48.52	74	-25.48	Peak	Н
7206	50.21	1.01	51.22	74	-22.78	Peak	Н
2390	53.70	-9.2	44.50	74	-29.50	Peak	V
2400	50.85	-9.39	41.46	74	-32.54	Peak	V
4804	54.30	-4.33	49.97	74	-24.03	Peak	V
7206	50.33	1.01	51.34	74	-22.66	Peak	V

Worse case m	Worse case mode:		GFSK(2Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	
4880	52.16	-4.11	48.05	74	-25.95	peak	Н	
7320	49.78	1.51	51.29	74	-22.71	peak	Н	
4880	53.09	-4.11	48.98	74	-25.02	peak	V	
7320	49.73	1.51	51.24	74	-22.76	peak	V	

Worse case m	Worse case mode:		GFSK(2Mbps)		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.84	-9.29	47.55	74	-26.45	Peak	Н
4960	51.10	-4.04	47.06	74	-26.94	Peak	Н
7440	51.21	1.57	52.78	74	-21.22	Peak	Н
2483.5	56.16	-9.29	46.87	74	-27.13	Peak	V
4960	49.97	-4.04	45.93	74	-28.07	Peak	V
7440	49.35	1.57	50.92	74	-23.08	Peak	V

Remark:

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

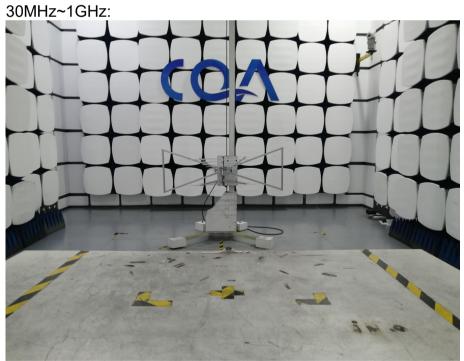
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



# 6 Photographs - EUT Test Setup

# 6.1 Radiated Spurious Emission









6.2 Conducted Emissions Test Setup





# 7 Photographs - EUT Constructional Details

Refer to Photographs - EUT Constructional Details OF EUT for CQASZ20250100069E -01.

\*\*\* END OF REPORT \*\*\*