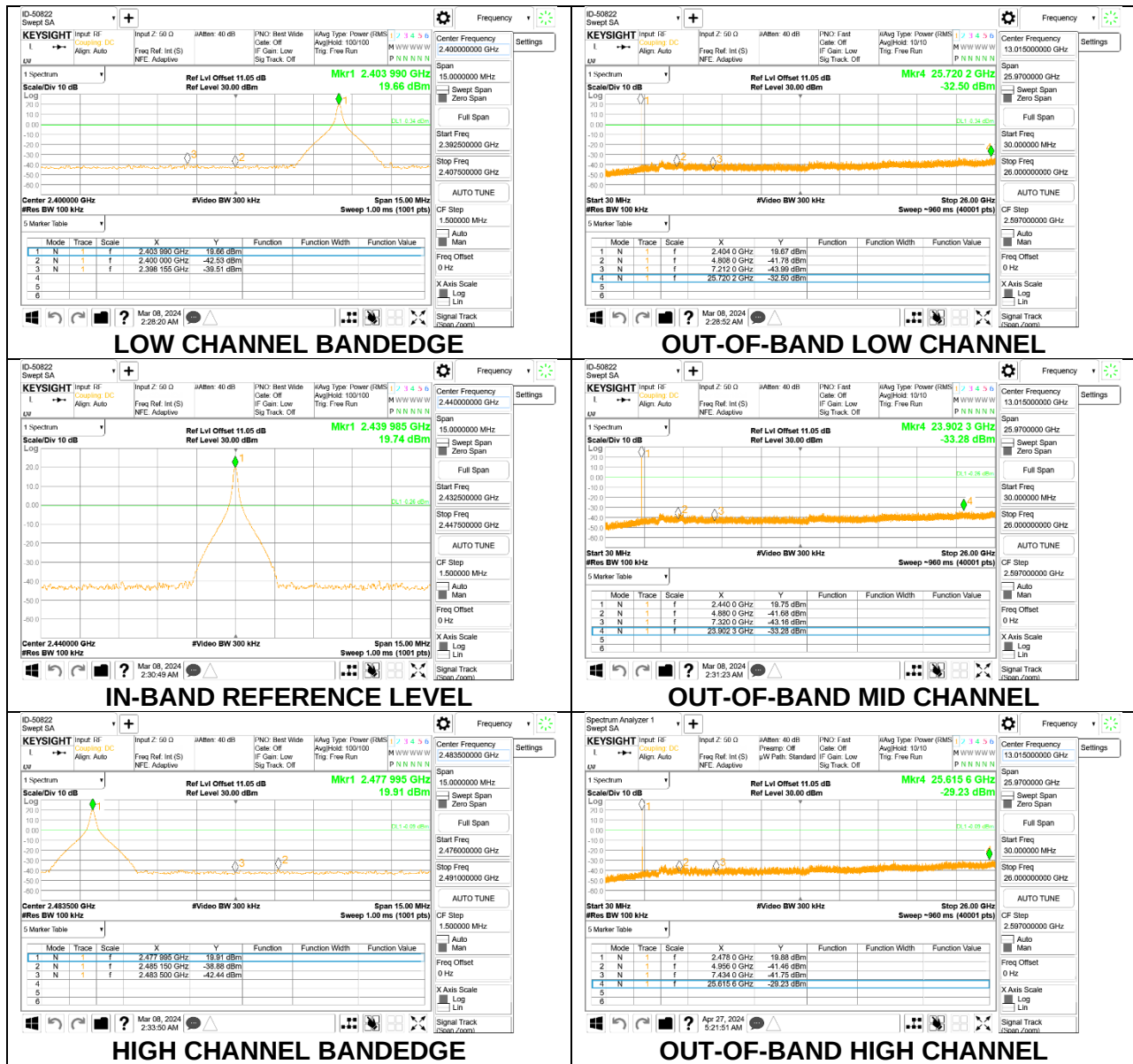
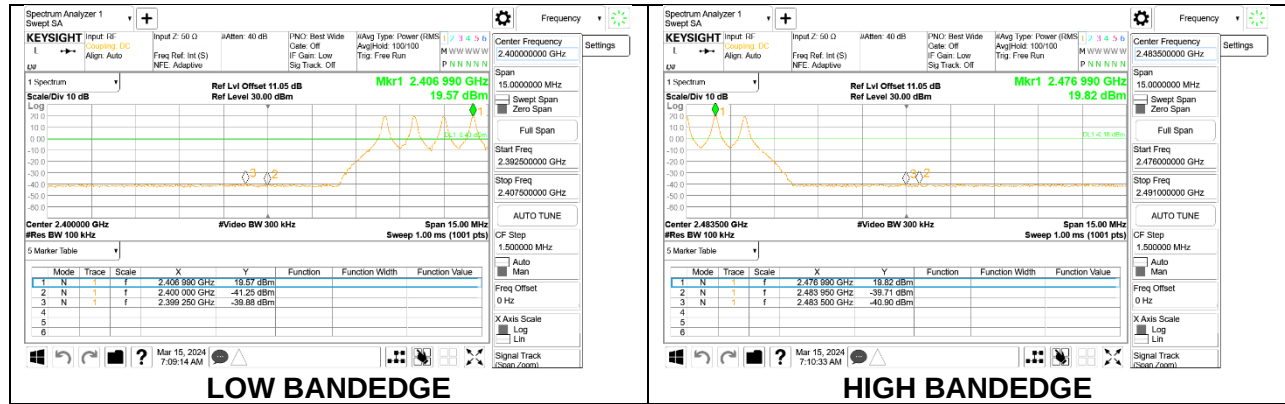
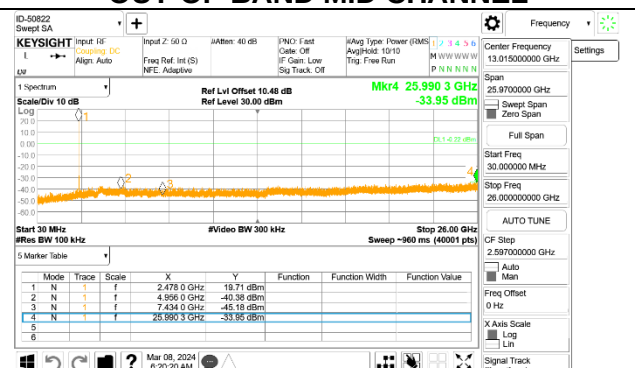
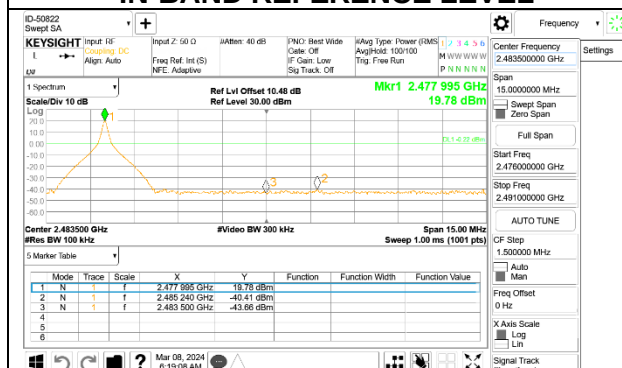
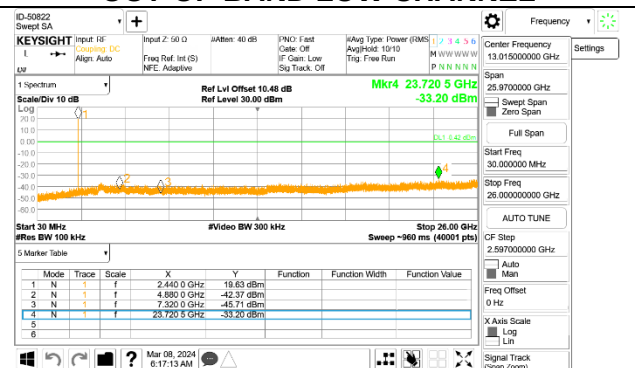
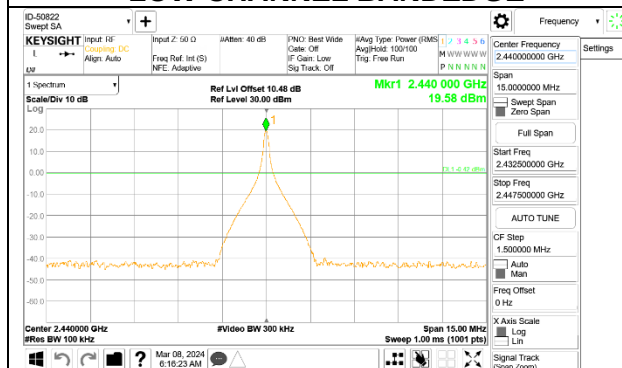
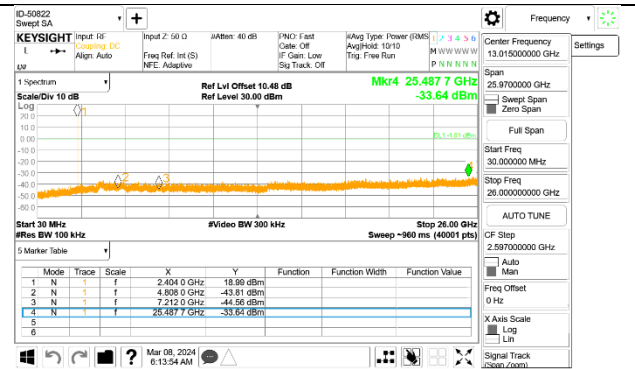
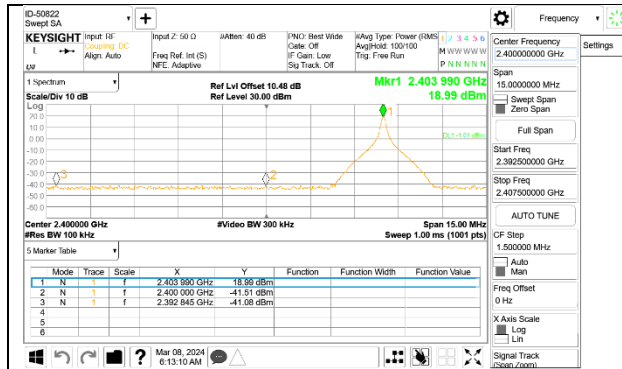
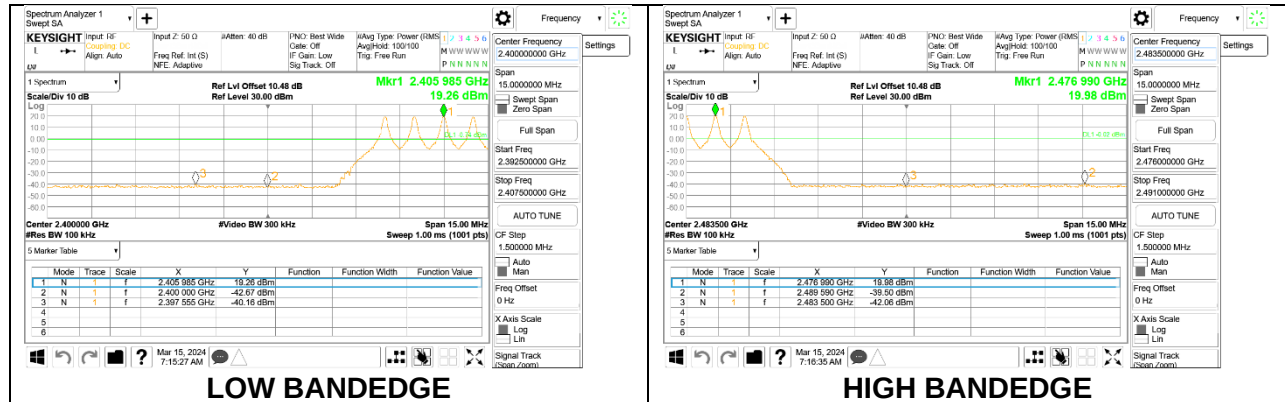


9.7.2. BLE 1Mbps ASK, MODE 2 (CHANNEL SOUNDING) Tx0 SPURIOUS EMISSIONS, NON-HOPPING



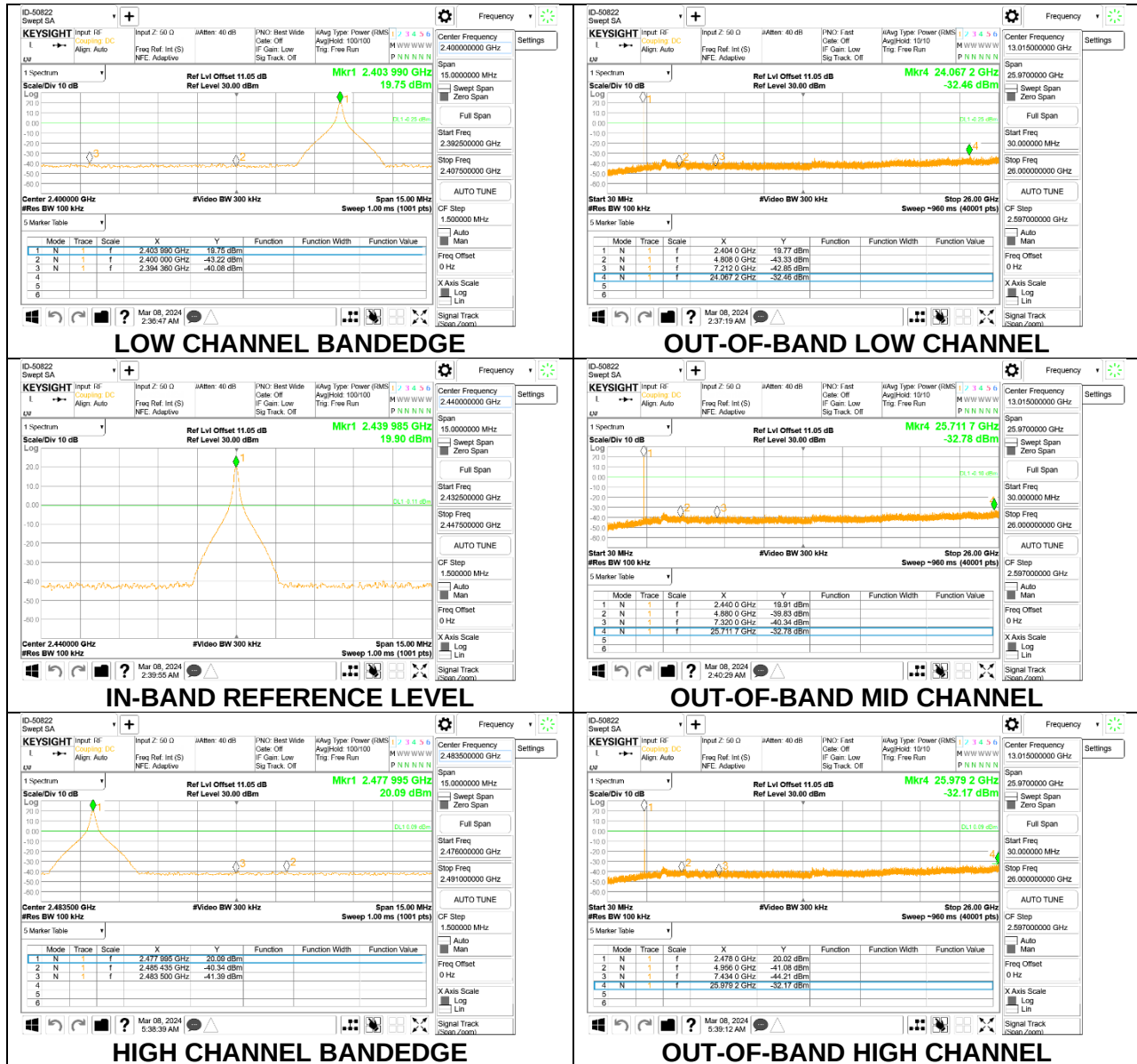
Tx0 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

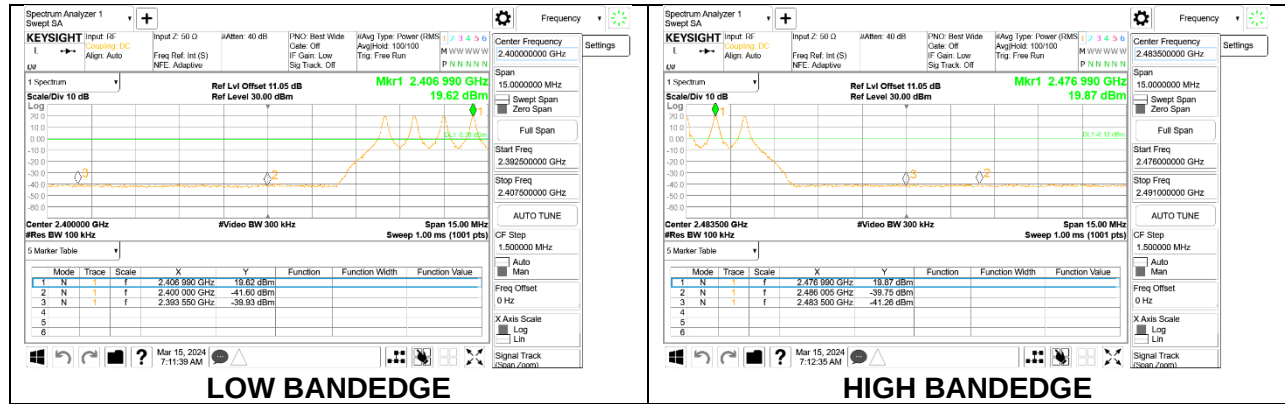
Tx1 SPURIOUS EMISSIONS, NON-HOPPING

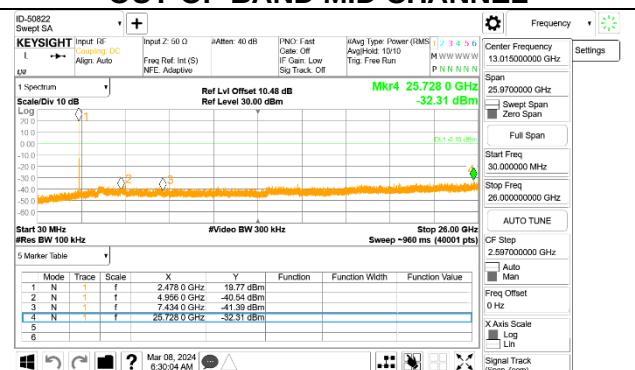
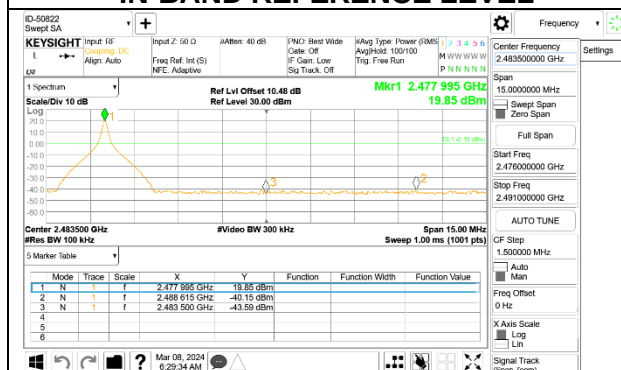
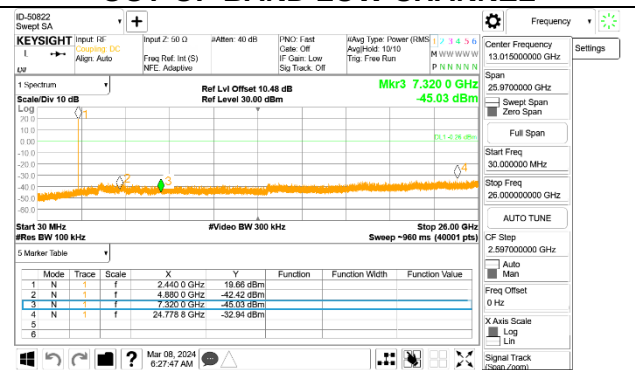
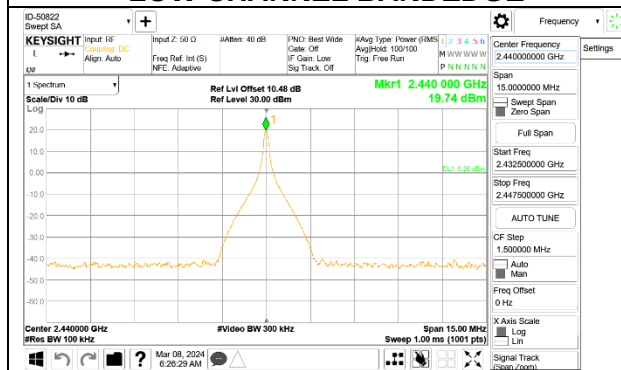
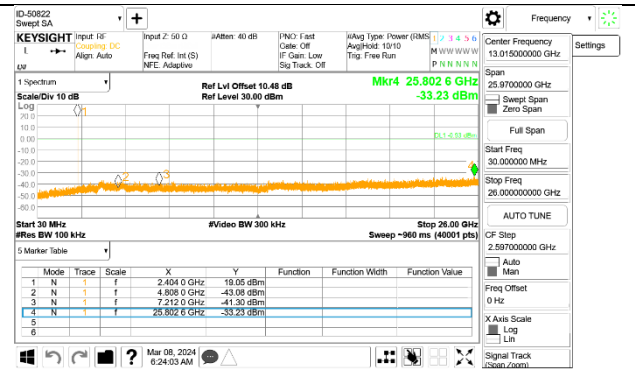
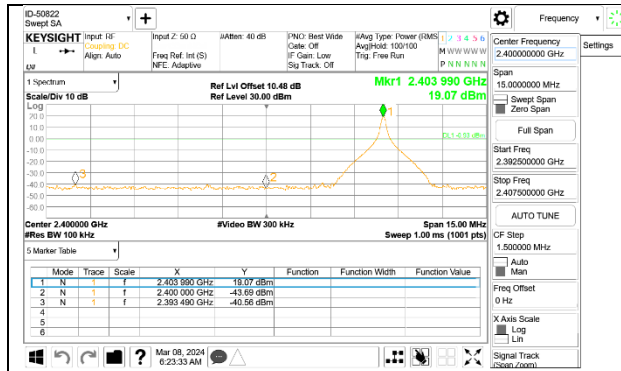
Tx1 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

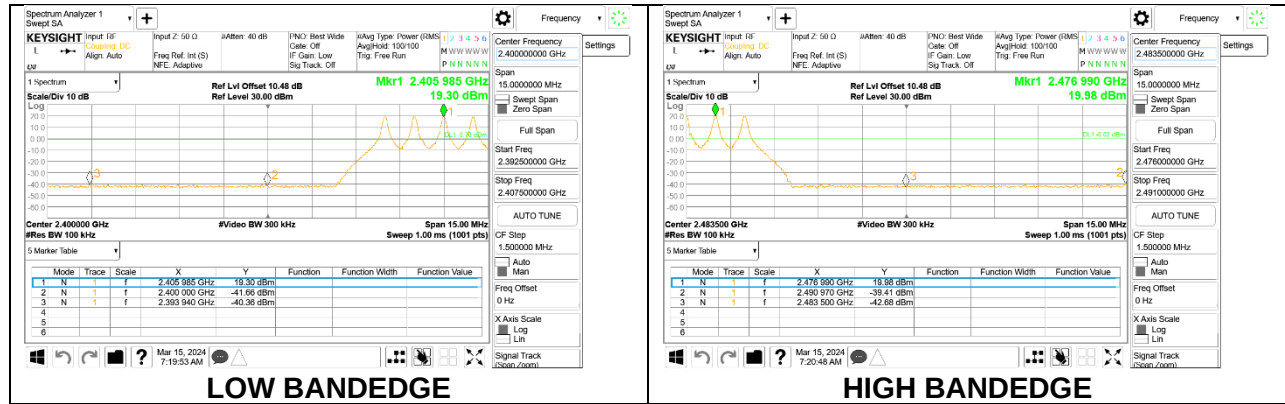
9.7.3. BLE 2Mbps ASK, MODE 2 (CHANNEL SOUNDING)

Tx0 SPURIOUS EMISSIONS, NON-HOPPING



Tx0 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

Tx1 SPURIOUS EMISSIONS, NON-HOPPING

Tx1 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements. 1MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements where the actual VBW set for tests are as follows:

Bluetooth BDR:500Hz; BLE 1Mbps/2Mbps Channel Sounding ASK: 30kHz

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

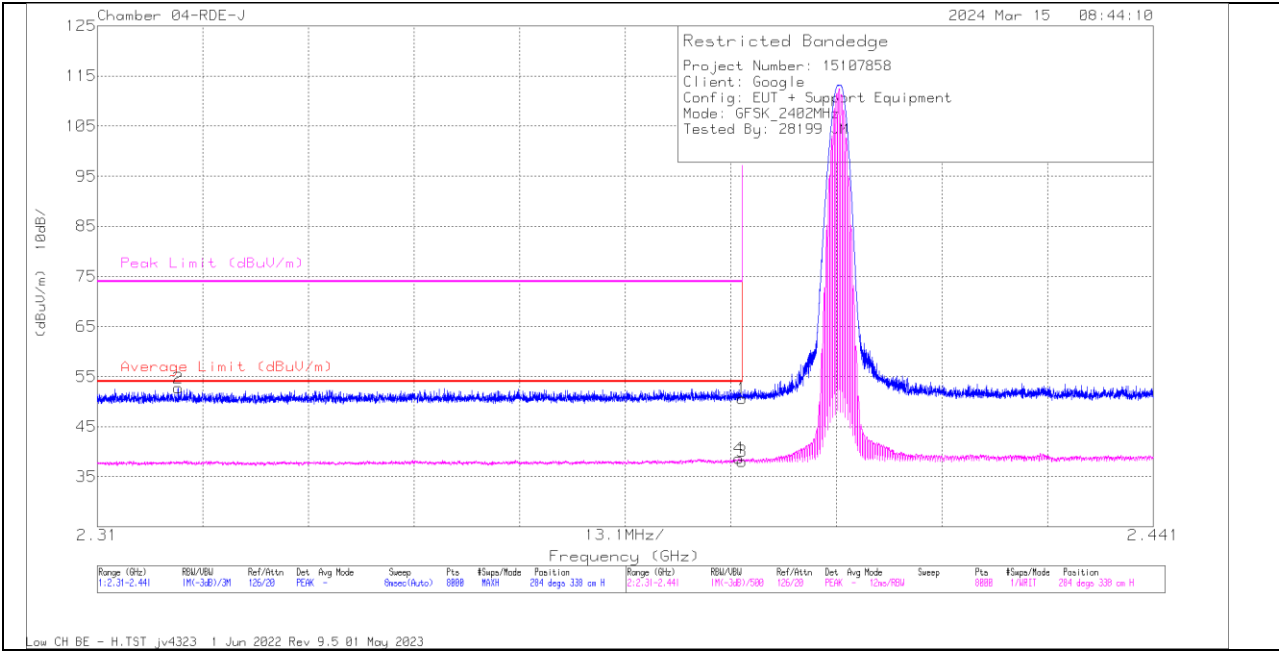
NOTE: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLUETOOTH BASIC DATA RATE TXBF GFSK MODULATION (TxBF)

BANDEDGE (LOW CHANNEL)

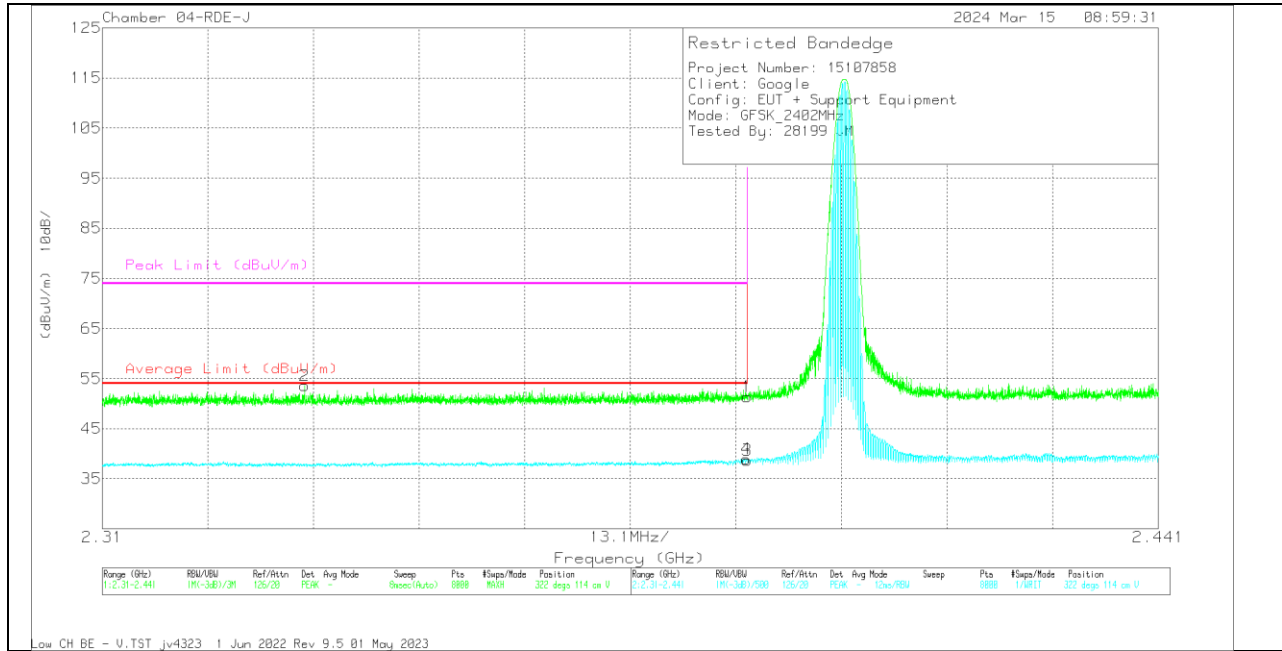
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dBm)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	55.73	Pk	32	-37.1	50.63	-	-	74	-23.37	284	338	H
2	*** 2.320023	58	Pk	31.8	-37.1	52.7	-	-	74	-21.3	284	338	H
3	*** 2.39	43.14	VA1T	32	-37.1	38.04	54	-15.96	-	-	284	338	H
4	*** 2.389609	43.79	VA1T	32	-37.1	38.69	54	-15.31	-	-	284	338	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
** - indicates frequency in Taiwan NCC LP0002 Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



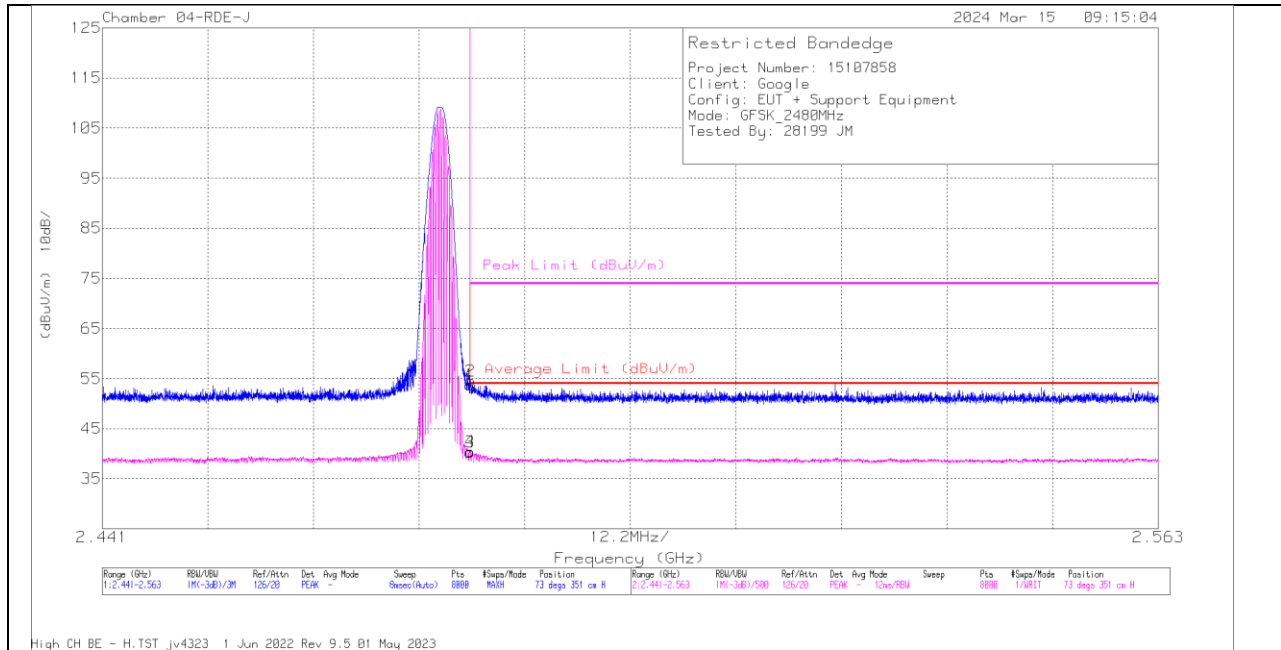
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	56.45	Pk	32	-37.1	51.35	-	-	74	-22.65	322	114	V
2	*** 2.33509	58.97	Pk	31.8	-37.2	53.57	-	-	74	-20.43	322	114	V
3	** 2.39	43.85	VA1T	32	-37.1	38.75	54	-15.25	-	-	322	114	V
4	*** 2.389871	44.03	VA1T	32	-37.1	38.93	54	-15.07	-	-	322	114	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	58.56	Pk	32.2	-37	53.76	-	-	74	-20.24	73	351	H
2	* ** 2.483568	59.37	Pk	32.2	-37	54.57	-	-	74	-19.43	73	351	H
3	* ** 2.4835	45.12	VA1T	32.2	-37	40.32	54	-13.68	-	-	73	351	H
4	* ** 2.483507	45.24	VA1T	32.2	-37	40.44	54	-13.56	-	-	73	351	H

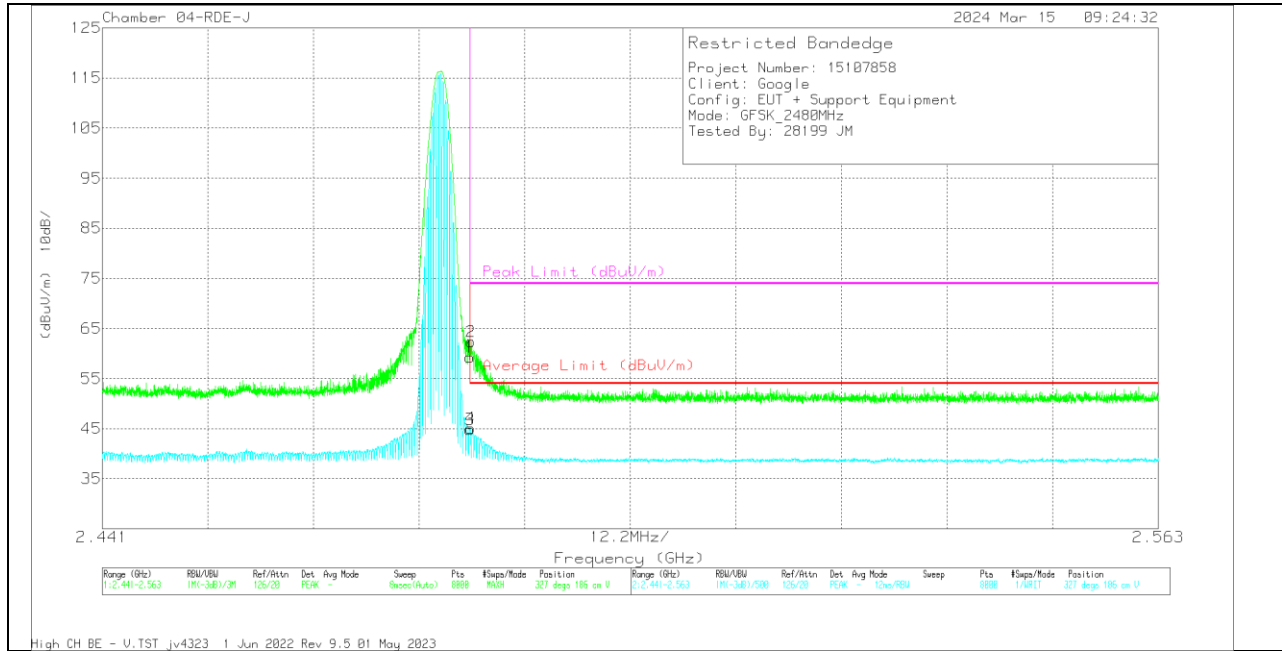
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	64.08	Pk	32.2	-37	59.28	-	-	74	-14.72	327	186	V
2	*** 2.483584	67.15	Pk	32.2	-37	62.35	-	-	74	-11.65	327	186	V
3	** 2.4835	49.67	VA1T	32.2	-37	44.87	54	-9.13	-	-	327	186	V
4	*** 2.483523	49.92	VA1T	32.2	-37	45.12	54	-8.88	-	-	327	186	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

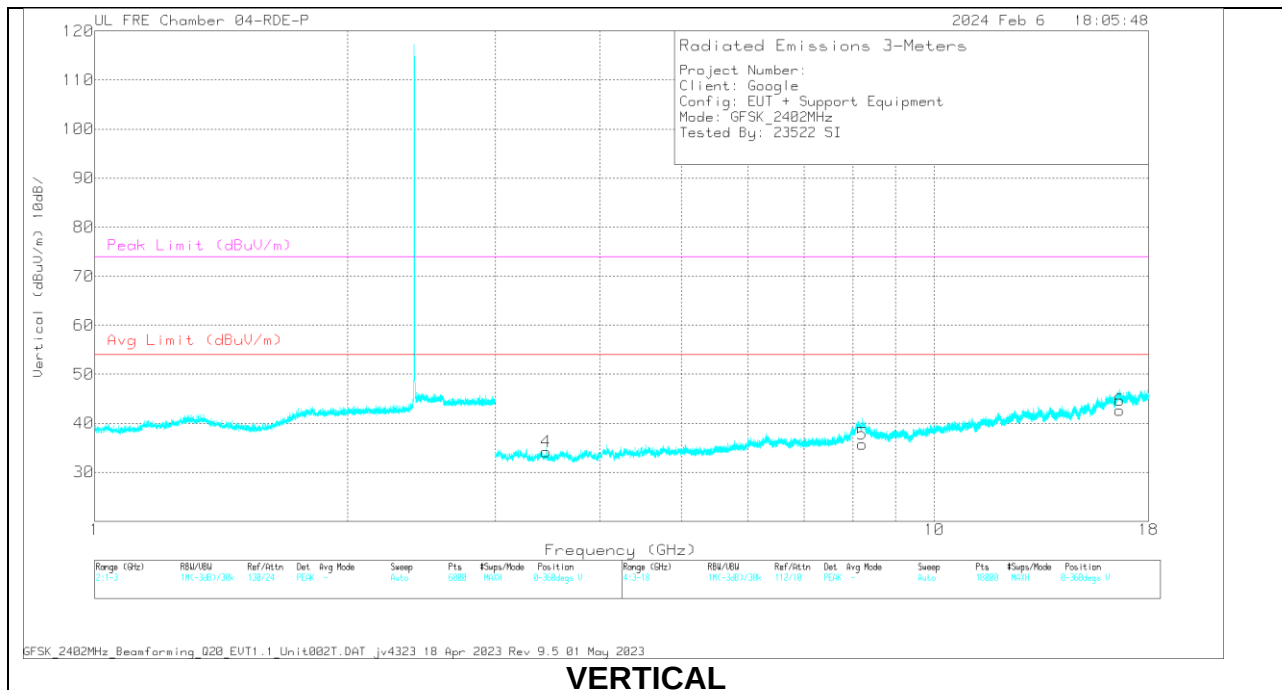
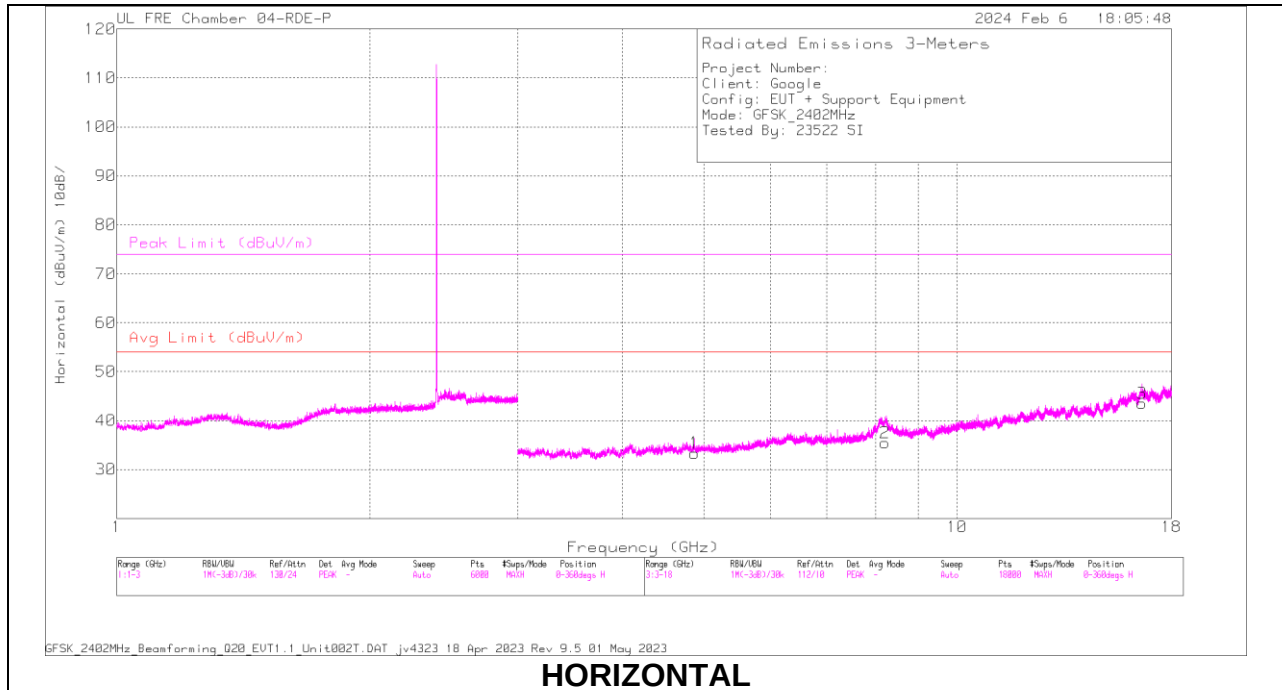
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.869394	54.45	PKFH	34.2	-49.35	39.3	-	-	74	-34.7	54	196	H
	* ** 4.872154	42.16	VA1T	34.2	-49.33	27.03	54	-26.97	-	-	54	196	H
2	* ** 8.208376	52.13	PKFH	35.9	-45.86	42.17	-	-	74	-31.83	218	334	H
	* ** 8.208358	40.45	VA1T	35.9	-45.86	30.49	54	-23.51	-	-	218	334	H
5	* ** 8.208678	53.58	PKFH	35.9	-45.87	43.61	-	-	74	-30.39	206	216	V
	* ** 8.207969	40.45	VA1T	35.9	-45.86	30.49	54	-23.51	-	-	206	216	V
4	3.447385	42.36	VA1T	32.9	-46.89	28.37	-	-	-	-	231	304	V
	3.447786	55.73	PKFH	32.9	-46.9	41.73	-	-	74	-32.27	231	304	V
3	16.59678	53.71	PKFH	41.6	-44.84	50.47	-	-	74	-23.53	104	372	H
	16.598071	40.82	VA1T	41.6	-44.79	37.63	-	-	-	-	104	372	H
6	16.639322	52.88	PKFH	41.7	-45.01	49.57	-	-	74	-24.43	1	135	V
	16.642784	40.84	VA1T	41.7	-44.94	37.6	-	-	-	-	1	135	V

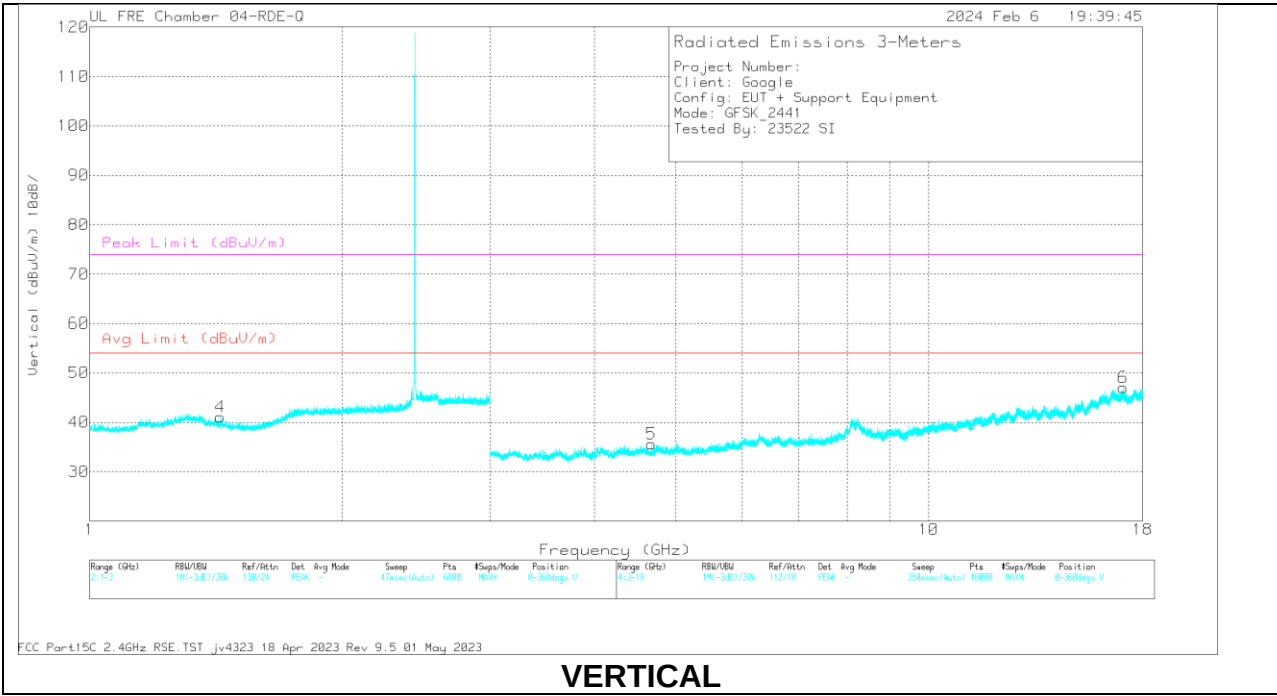
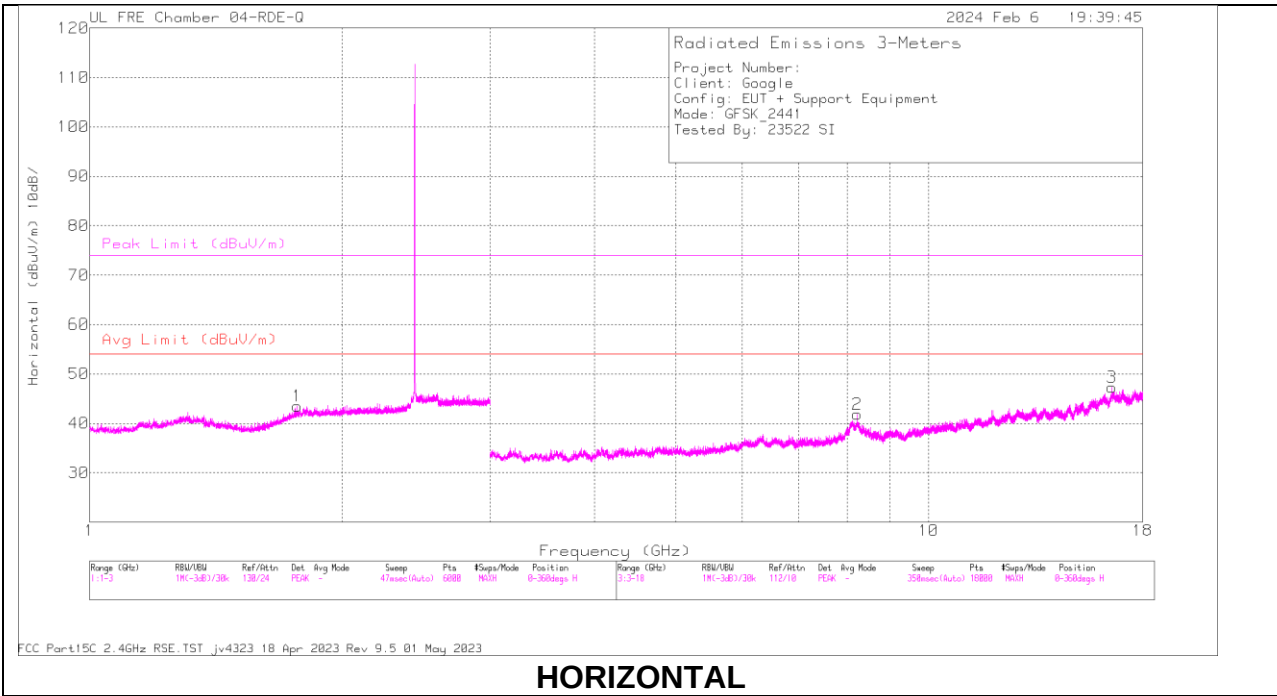
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



RADIATED EMISSIONS

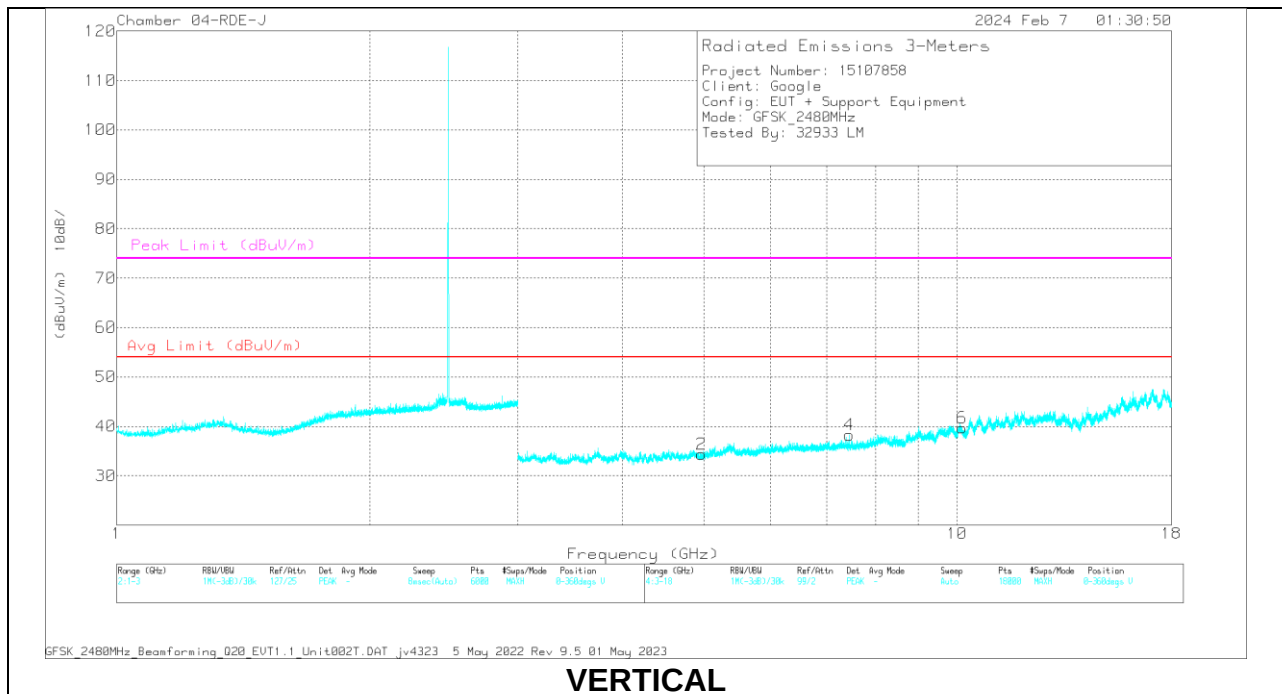
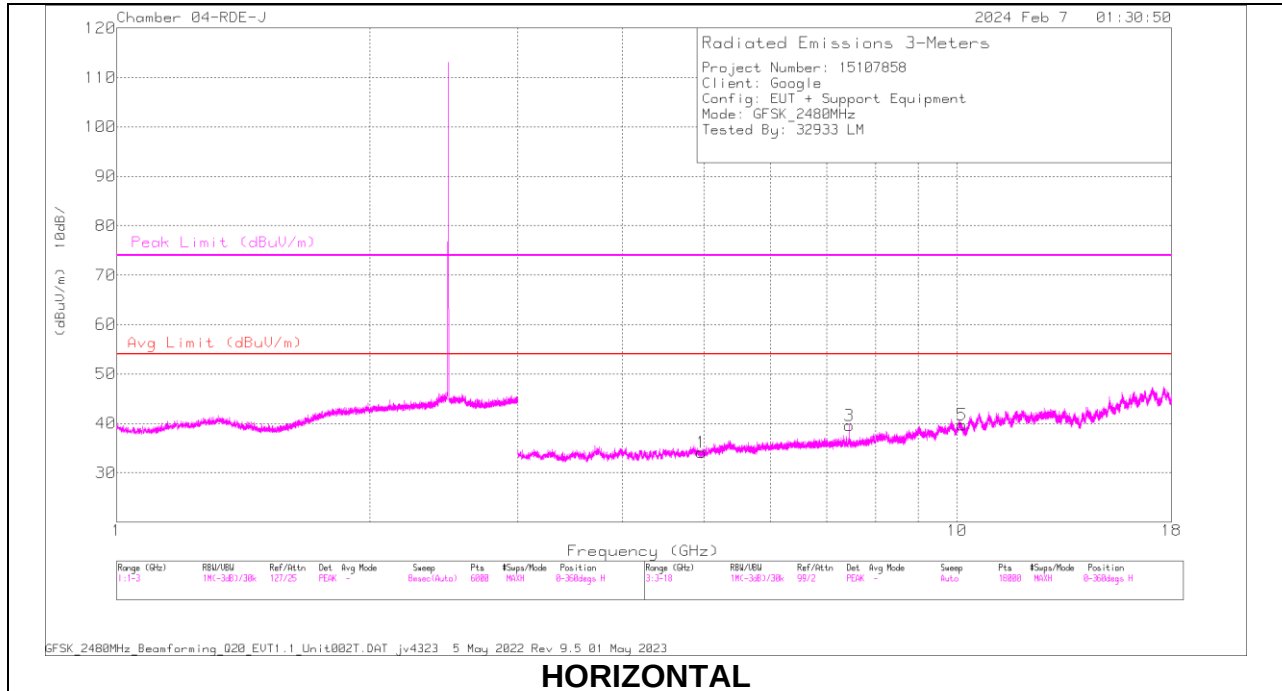
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.766775	58.39	PKFH	30.6	-38.63	50.36	-	-	74	-23.64	274	398	H
	** 1.768978	45.5	VA1T	30.6	-38.63	37.47	54	-16.50	-	-	274	398	H
2	** 1.428704	57.1	PKFH	28.3	-38.03	47.37	-	-	74	-26.63	256	208	V
	** 1.426408	45.02	VA1T	28.3	-38.07	35.25	54	-18.8	-	-	256	208	V
5	** 8.21776	53.45	PKFH	35.9	-40.62	48.73	-	-	74	-25.27	135	108	H
	** 8.219377	40.81	VA1T	35.9	-40.6	37.25	54	-16.75	-	-	135	108	H
4	** 4.678093	54.98	PKFH	34.2	-46.3	42.88	-	-	74	-31.12	38	371	V
	** 4.678568	42.01	VA1T	34.2	-46.26	29.95	54	-24.05	-	-	38	371	V
3	16.552452	52.92	PKFH	41.6	-40.97	53.55	-	-	74	-20.45	78	334	H
6	17.062339	53.06	PKFH	41.3	-40.35	54.01	-	-	74	-19.99	190	332	V

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.968633	52.69	PKFH	34.1	-44.7	42.09	-	-	74	-31.91	109	194	H
	* ** 4.968401	40.39	VA1T	34.1	-44.6	29.89	54	-24.11	-	-	109	194	H
2	* ** 4.963291	53.33	PKFH	34.1	-44.7	42.73	-	-	74	-31.27	324	114	V
	* ** 4.964936	40.16	VA1T	34.1	-44.7	29.56	54	-24.44	-	-	324	114	V
3	* ** 7.439434	53.92	PKFH	35.8	-42.1	47.62	-	-	74	-26.38	262	101	H
	* ** 7.440018	44.91	VA1T	35.8	-42.2	38.51	54	-15.49	-	-	262	101	H
4	* ** 7.441067	50.54	PKFH	35.8	-42.2	44.14	-	-	74	-29.86	129	128	V
	* ** 7.439989	39.03	VA1T	35.8	-42.2	32.63	54	-21.37	-	-	129	128	V
5	10.148181	49.72	PKFH	37.3	-39.4	47.62	-	-	-	-	359	137	H
	10.146311	37.14	VA1T	37.3	-39.5	34.94	-	-	-	-	359	137	H
6	10.140505	50.72	PKFH	37.3	-39.4	48.62	-	-	-	-	53	279	V
	10.139201	36.98	VA1T	37.3	-39.5	34.78	-	-	-	-	53	279	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

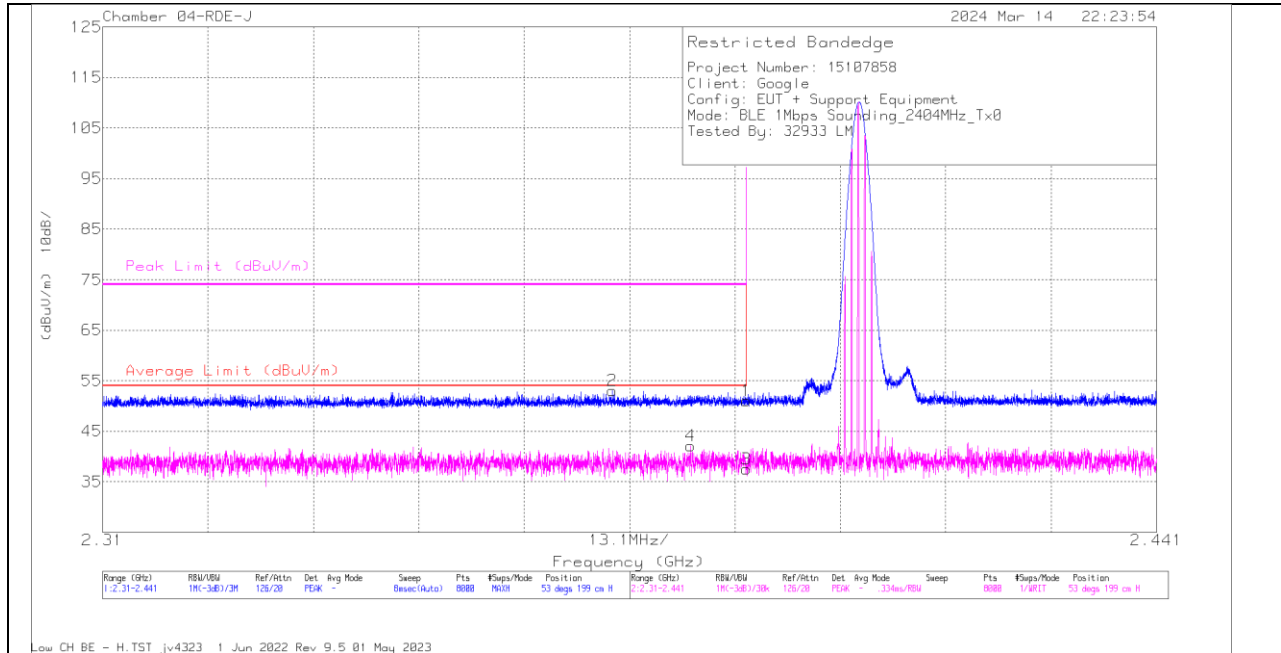
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.2. BLE ASK, MODE 2 (CHANNEL SOUNDING), 1Mbps

Tx0 Antenna

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	56.11	Pk	32	-37.1	51.01	-	-	74	-22.99	53	199	H
2	*** 2.373346	58.2	Pk	32	-37.2	53	-	-	74	-21	53	199	H
3	*** 2.39	42.59	VA1T	32	-37.1	37.49	54	-16.51	-	-	53	199	H
4	*** 2.383074	47.24	VA1T	32	-37.1	42.14	54	-11.86	-	-	53	199	H

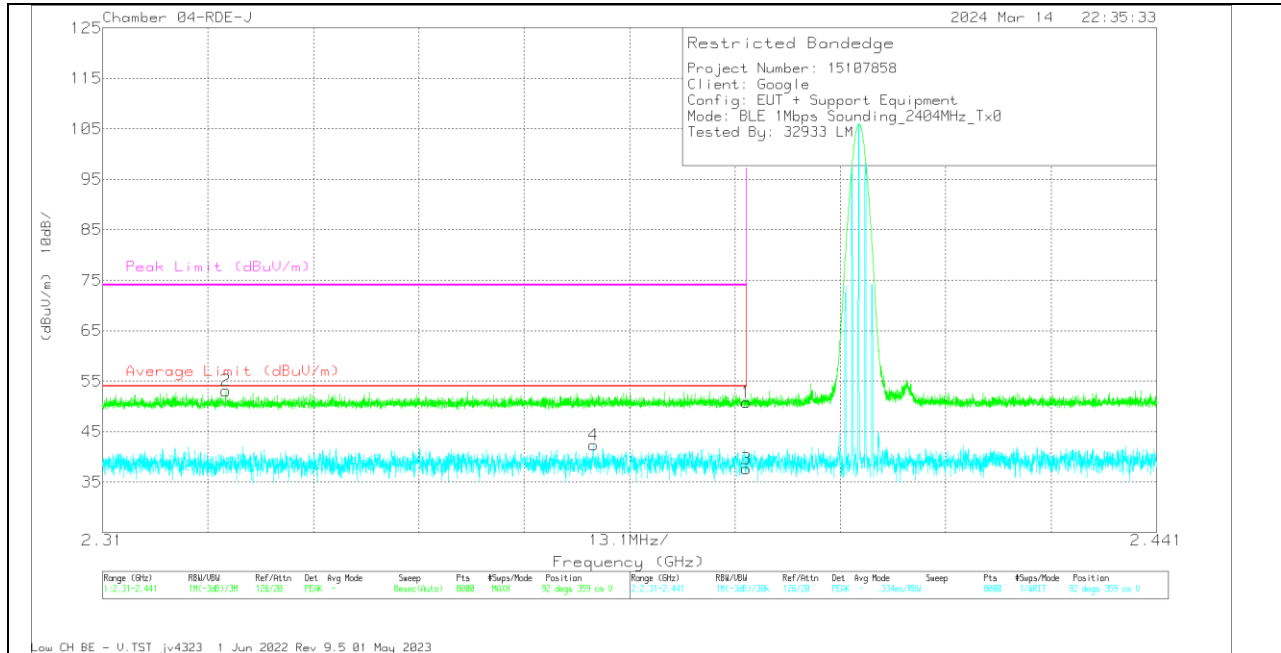
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



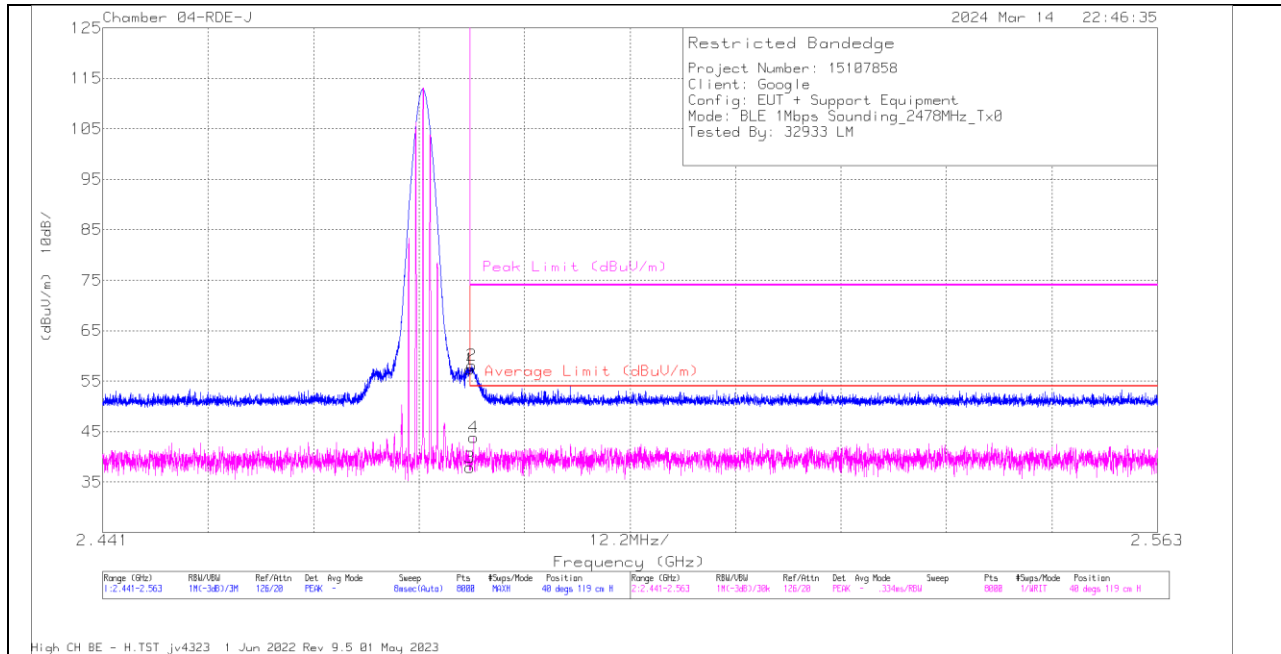
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	55.83	Pk	32	-37.1	50.73	-	-	74	-23.27	92	359	V
2	*** 2.325313	58.39	Pk	31.8	-37.1	53.09	-	-	74	-20.91	92	359	V
3	** 2.39	42.7	VA1T	32	-37.1	37.6	54	-16.4	-	-	92	359	V
4	*** 2.371021	47.55	VA1T	31.9	-37.1	42.35	54	-11.65	-	-	92	359	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dBm)	CblAmp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	62.2	Pk	32.2	-37	57.4	-	-	74	-16.6	40	119	H
3	* ** 2.4835	62.62	VA1T	32.2	-37	57.82	54	-16.18	-	-	40	119	H
2	* ** 2.48369	62.77	Pk	32.3	-37	58.07	-	-	74	-15.93	40	119	H
4	* ** 2.483904	48.59	VA1T	32.3	-37	43.89	54	-10.11	-	-	40	119	H

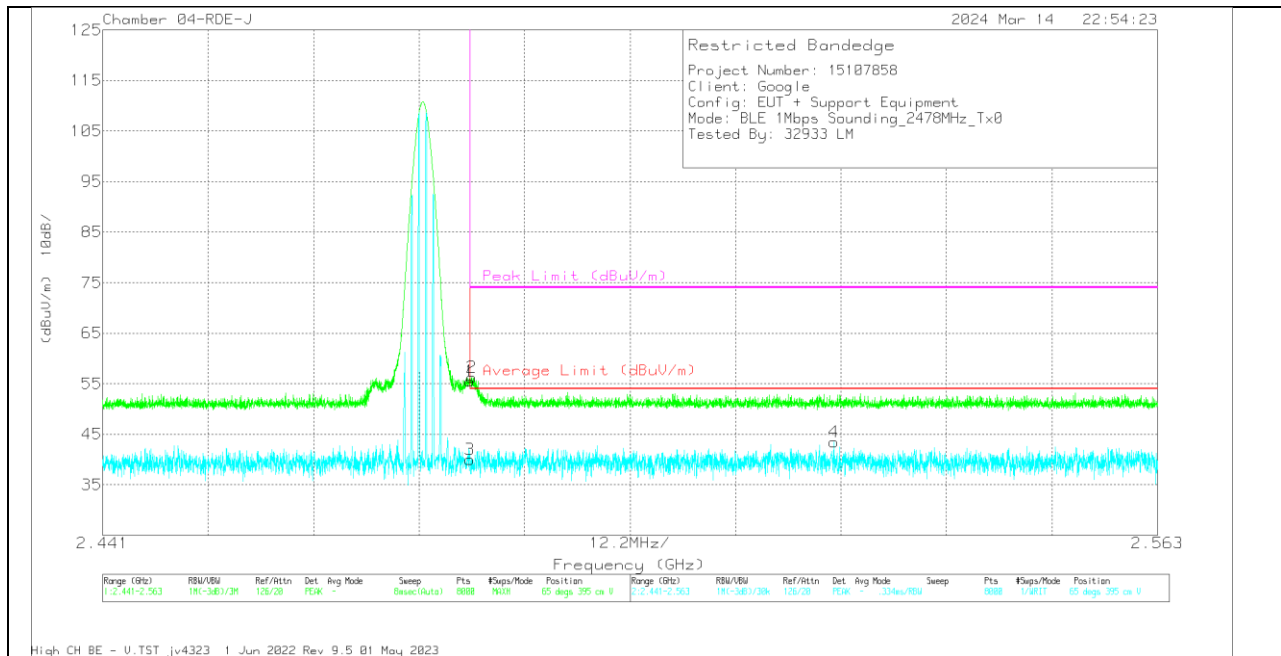
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dBm)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4835	60.28	PK	32.2	-37	55.48	-	-	74	-18.52	65	395	V
3	* ** 2.4835	44.78	VA1T	32.2	-37	39.98	54	-14.02	-	-	65	395	V
2	* ** 2.483721	61	PK	32.3	-37	56.3	-	-	74	-17.7	65	395	V
4	** 2.525557	48.02	VA1T	32.3	-36.9	43.42	54	-10.58	-	-	65	395	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

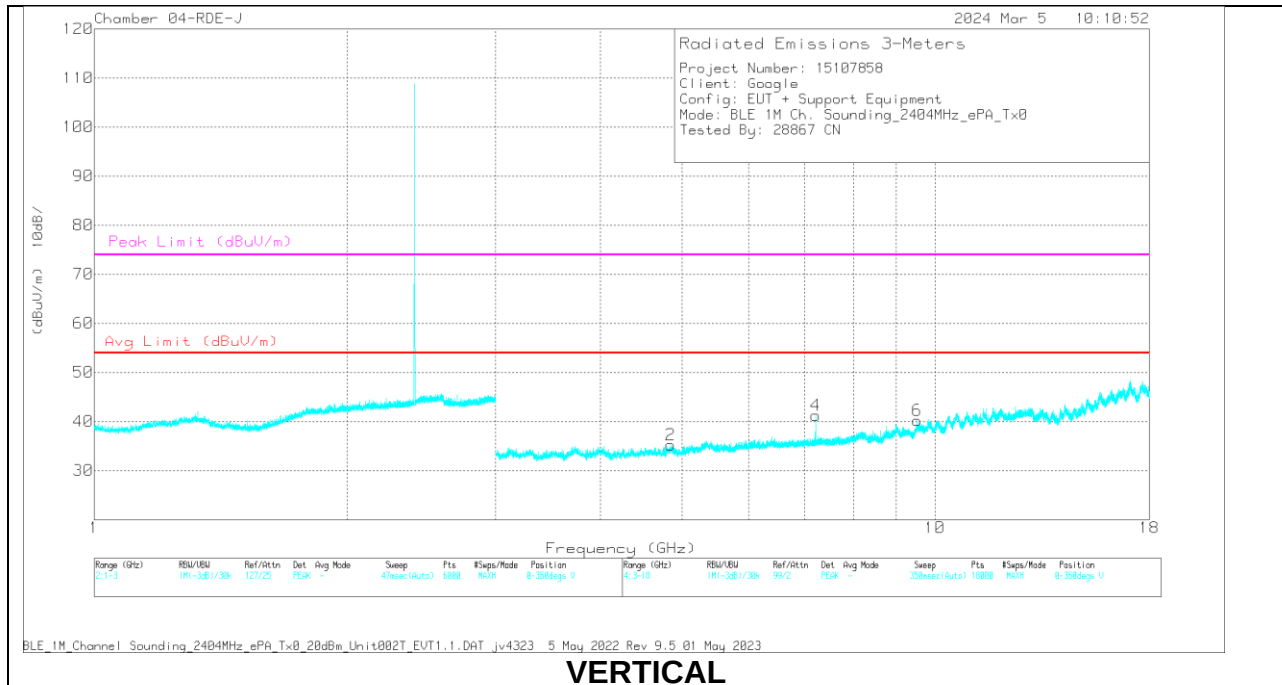
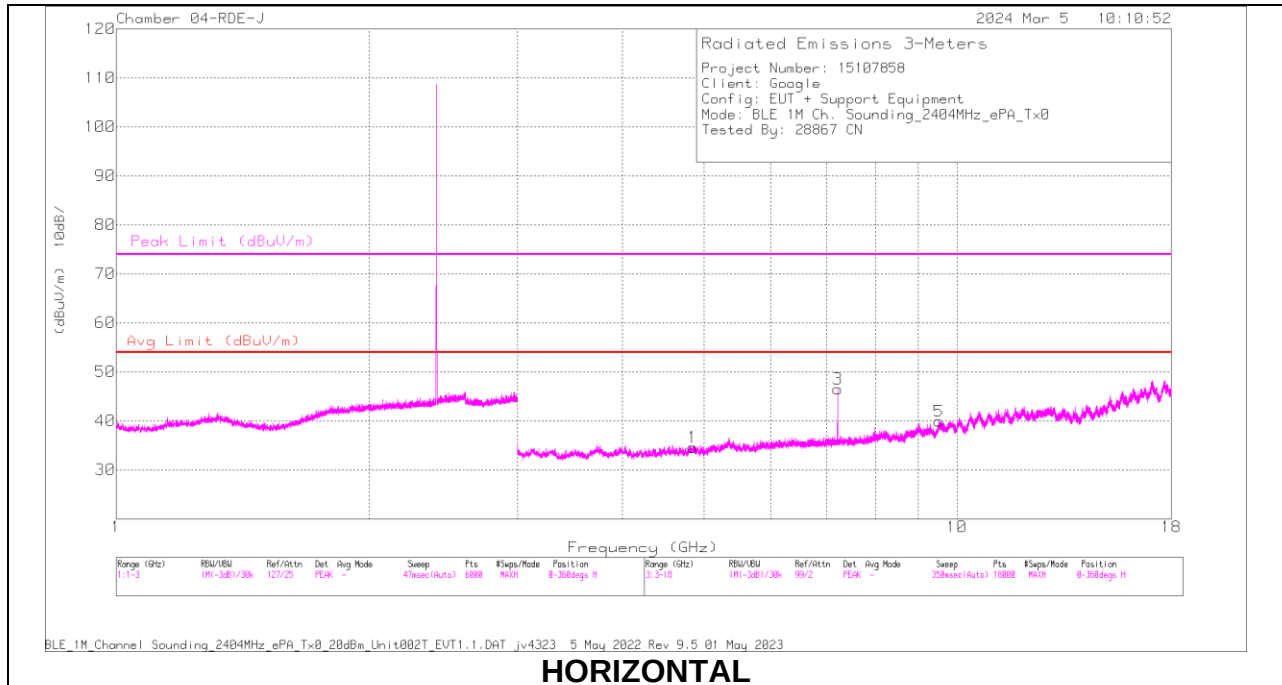
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK - Peak detector

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.849577	52.54	PKFH	34	-44.6	41.94	-	-	74	-32.06	16	312	H
	* ** 4.847448	41.53	VA1T	34	-44.6	30.93	54	-23.07	-	-	16	312	H
2	* ** 4.847667	52.63	PKFH	34	-44.6	42.03	-	-	74	-31.97	264	254	V
	* ** 4.849331	41.55	VA1T	34	-44.6	30.95	54	-23.05	-	-	264	254	V
3	7.209473	49.93	PKFH	35.8	-42.5	43.23	-	-	74	-30.77	292	341	H
	7.209536	38.63	VA1T	35.8	-42.4	32.03	-	-	-	-	292	341	H
4	7.212833	50.51	PKFH	35.8	-42.4	43.91	-	-	74	-30.09	35	150	V
	7.212874	39.18	VA1T	35.8	-42.4	32.58	-	-	-	-	35	150	V
5	9.518707	51.05	PKFH	36.6	-40.3	47.35	-	-	74	-26.65	4	211	H
	9.519246	39.68	VA1T	36.6	-40.4	35.88	-	-	-	-	4	211	H
6	9.527888	39.15	VA1T	36.6	-40.1	35.65	-	-	-	-	280	268	V
	9.529176	51.05	PKFH	36.6	-40.1	47.55	-	-	74	-26.45	280	268	V

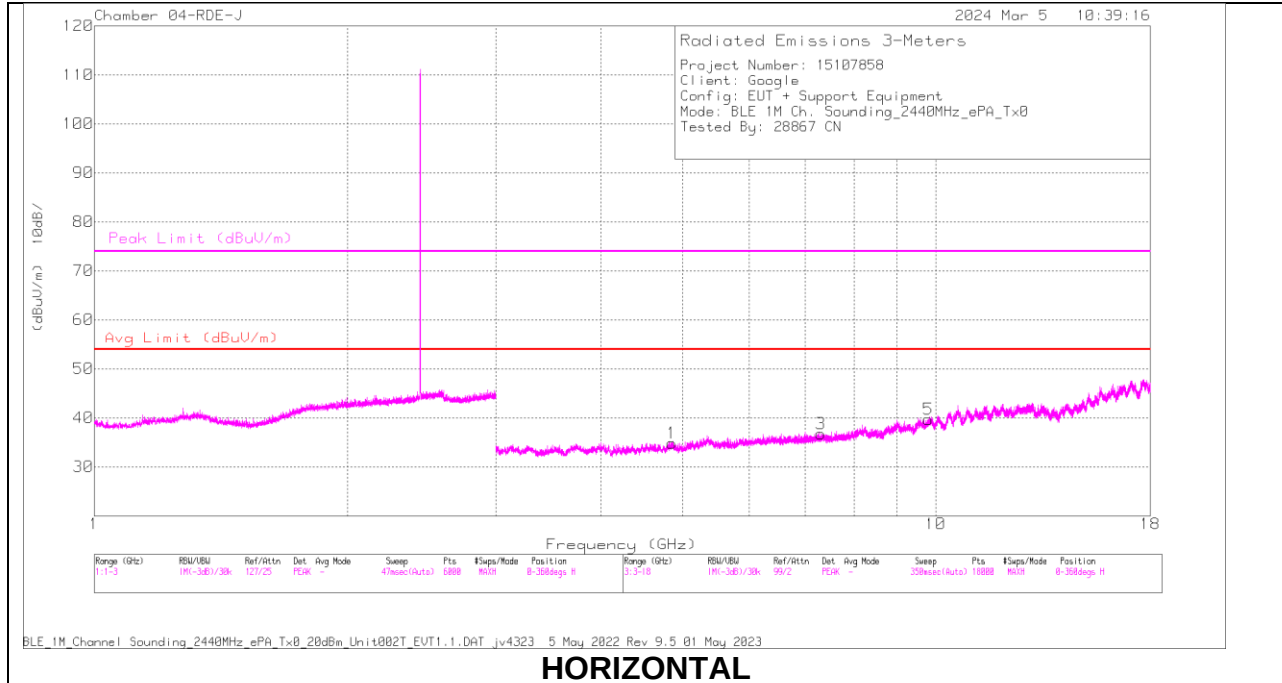
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

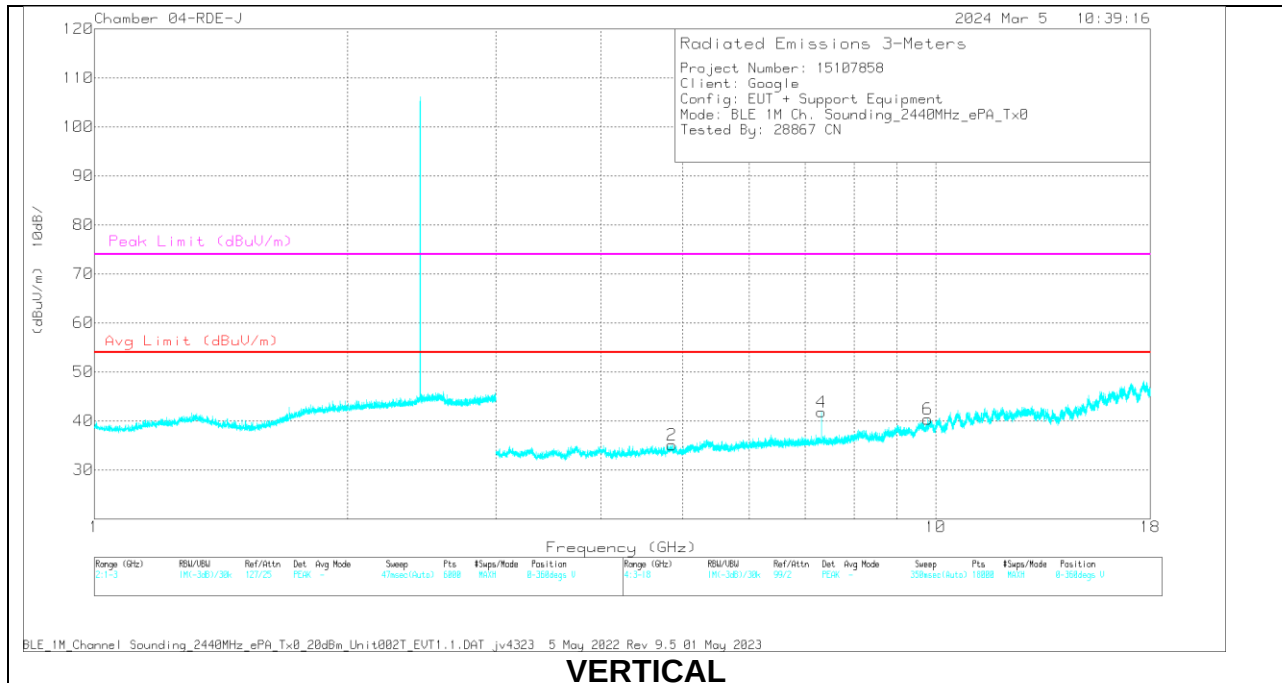
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.855759	53.61	PKFH	34	-44.5	43.11	-	-	74	-30.89	2	227	H
	*** 4.858682	41.51	VA1T	34	-44.6	30.91	54	-23.09	-	-	2	227	H
2	*** 4.860618	52.47	PKFH	34	-44.6	41.87	-	-	74	-32.13	53	249	V
	*** 4.860444	41.6	VA1T	34	-44.5	31.1	54	-22.9	-	-	53	249	V
3	*** 7.303304	51.52	PKFH	35.8	-42.4	44.92	-	-	74	-29.08	86	387	H
	*** 7.301082	39.09	VA1T	35.8	-42.4	32.49	54	-21.51	-	-	86	387	H
4	*** 7.317072	50.05	PKFH	35.8	-42.4	43.45	-	-	74	-30.55	119	277	V
	*** 7.317188	38.8	VA1T	35.8	-42.4	32.2	54	-21.8	-	-	119	277	V
5	9.805332	49.85	PKFH	36.9	-40.4	46.35	-	-	74	-27.65	276	365	H
	9.805477	39.17	VA1T	36.9	-40.4	35.67	-	-	-	-	276	365	H
6	9.781322	50.74	PKFH	36.8	-40.9	46.64	-	-	74	-27.36	153	125	V
	9.782174	39.79	VA1T	36.8	-40.8	35.79	-	-	-	-	153	125	V

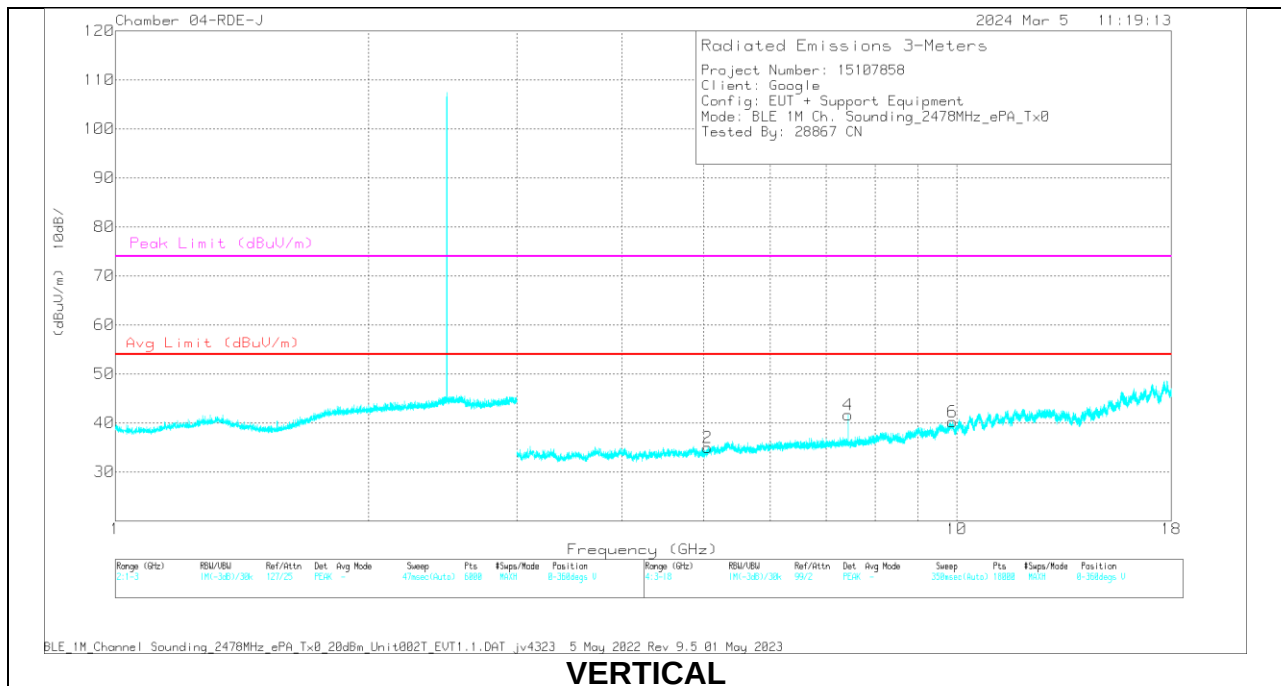
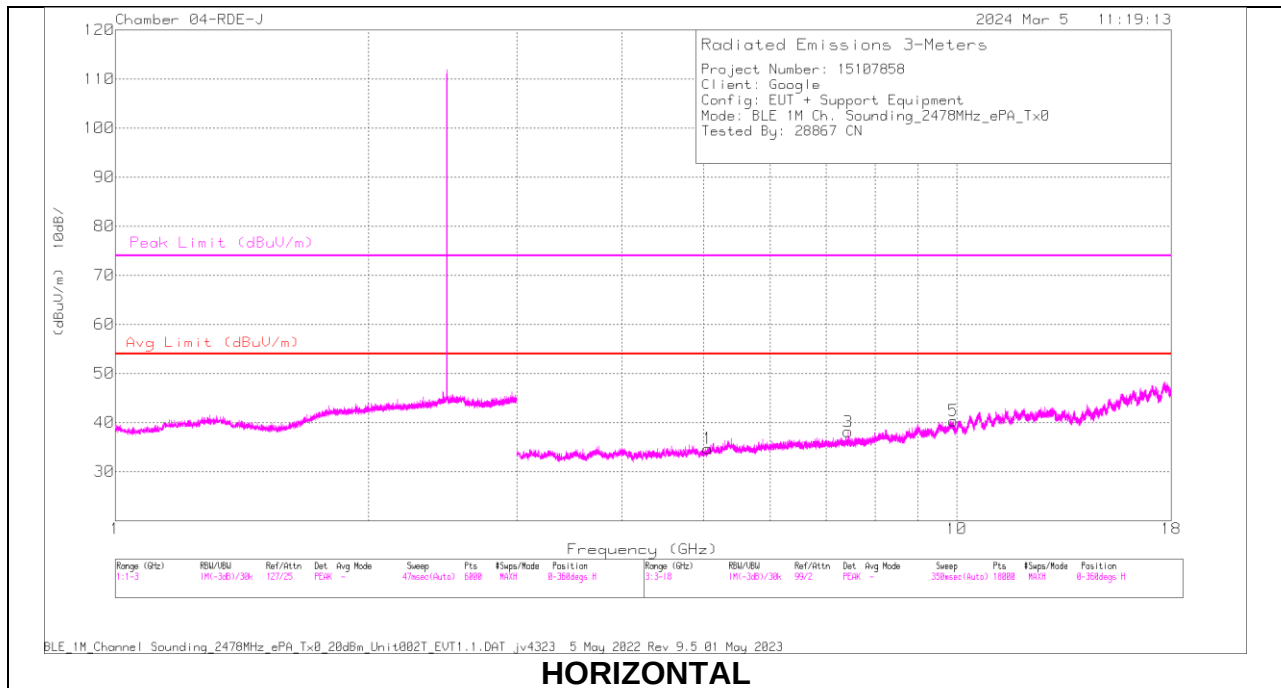
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

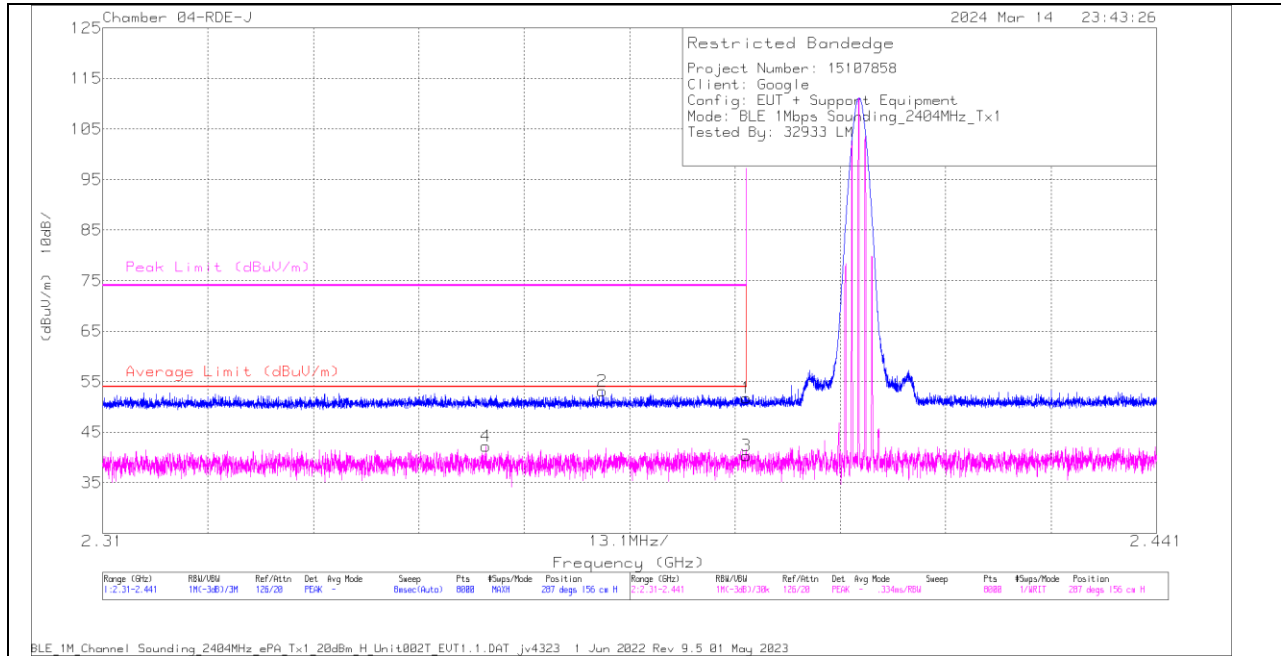
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.059612	52.69	PKFH	34.3	-44.8	42.19	-	-	74	-31.81	98	165	H
	* ** 5.058912	41.18	VA1T	34.3	-44.8	30.68	54	-23.32	-	-	98	165	H
2	* ** 5.058976	52.77	PKFH	34.3	-44.8	42.27	-	-	74	-31.73	99	116	V
	* ** 5.05851	41.79	VA1T	34.3	-44.8	31.29	54	-22.71	-	-	99	116	V
3	* ** 7.432816	50.05	PKFH	35.8	-42.2	43.65	-	-	74	-30.35	200	161	H
	* ** 7.430714	38.71	VA1T	35.8	-42.2	32.31	54	-21.69	-	-	200	161	H
4	* ** 7.431805	51.26	PKFH	35.8	-42.2	44.86	-	-	74	-29.14	358	190	V
	* ** 7.431237	38.66	VA1T	35.8	-42.2	32.26	54	-21.74	-	-	358	190	V
5	9.909891	50.42	PKFH	37	-39.7	47.72	-	-	74	-26.28	51	126	H
	9.910571	39.06	VA1T	37	-39.8	36.26	-	-	-	-	51	126	H
6	9.893056	49.67	PKFH	37	-39.6	47.07	-	-	74	-26.93	196	334	V
	9.895714	38.77	VA1T	37	-39.7	36.07	-	-	-	-	196	334	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

Tx1 Antenna**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 2.357624	47.43	VA1T	31.9	-37.1	42.23	54	-11.77	-	-	287	156	H
2	*** 2.372134	58.32	Pk	31.9	-37.1	53.12	-	-	74	-20.88	287	156	H
1	*** 2.39	56.83	Pk	32	-37.1	51.73	-	-	74	-22.27	287	156	H
3	*** 2.39	45.43	VA1T	32	-37.1	40.33	54	-13.67	-	-	287	156	H

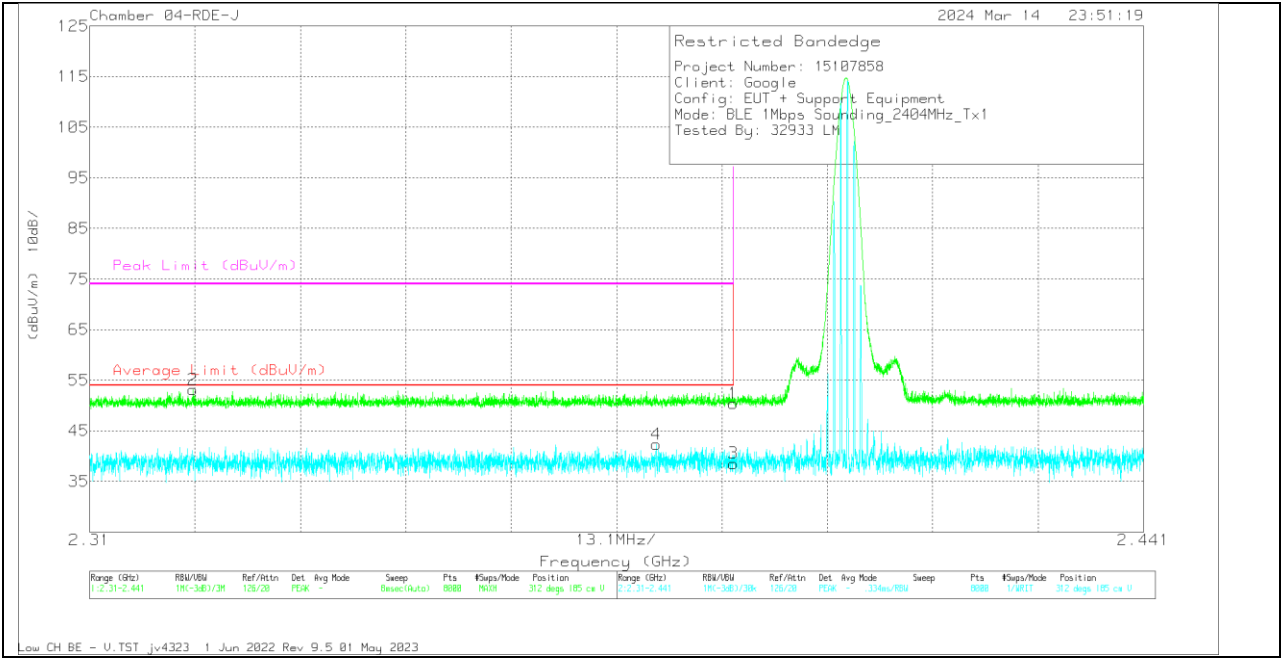
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

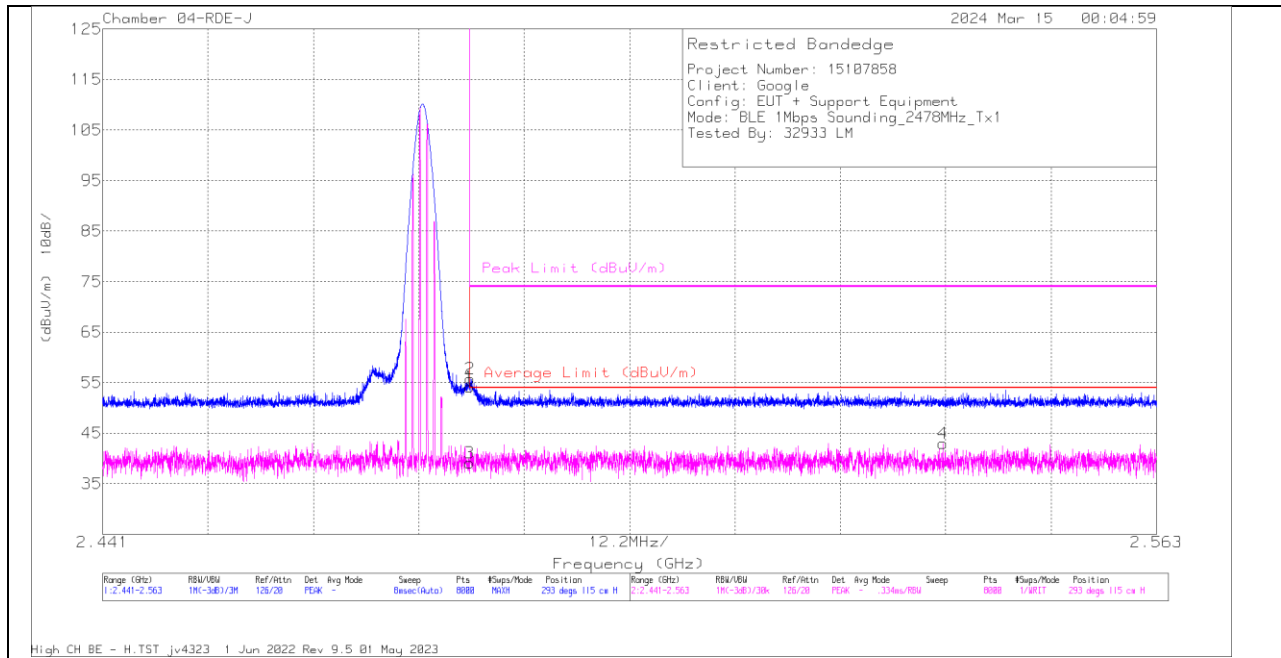
VA1T - FHSS: Linear Voltage Average $V_B=1/T_{on}$ where: T_{on} is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	55.57	Pk	32	-37.1	50.47	-	-	74	-23.53	312	185	V
2	*** 2.322856	58.41	Pk	31.8	-37.1	53.11	-	-	74	-20.89	312	185	V
3	*** 2.39	43.66	VA1T	32	-37.1	38.56	54	-15.44	-	-	312	185	V
4	*** 2.380421	47.46	VA1T	32	-37.1	42.36	54	-11.64	-	-	312	185	V

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 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)**HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.4835	58.95	Pk	32.2	-37	54.15	-	-	74	-19.85	293	115	H
3	** 2.4835	43.91	VA1T	32.2	-37	39.11	54	-14.89	-	-	293	115	H
2	** 2.483538	60.56	Pk	32.2	-37	55.76	-	-	74	-18.24	293	115	H
4	** 2.538277	47.55	VA1T	32.3	-36.9	42.95	54	-11.05	-	-	293	115	H

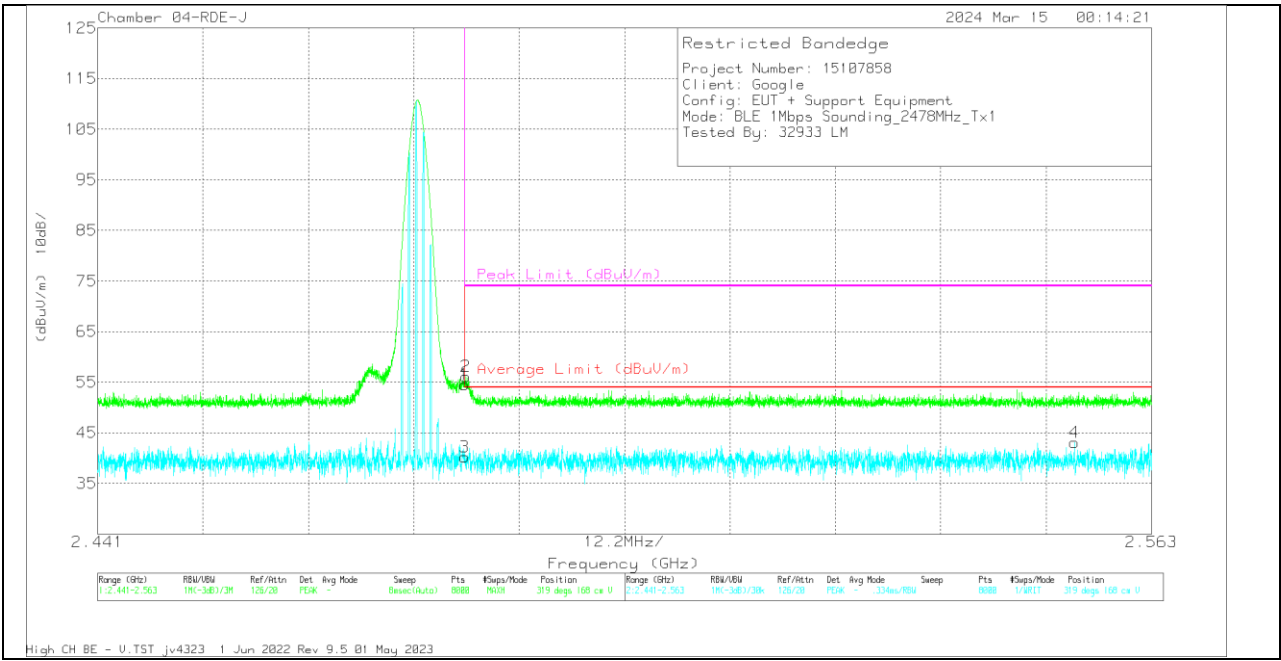
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT

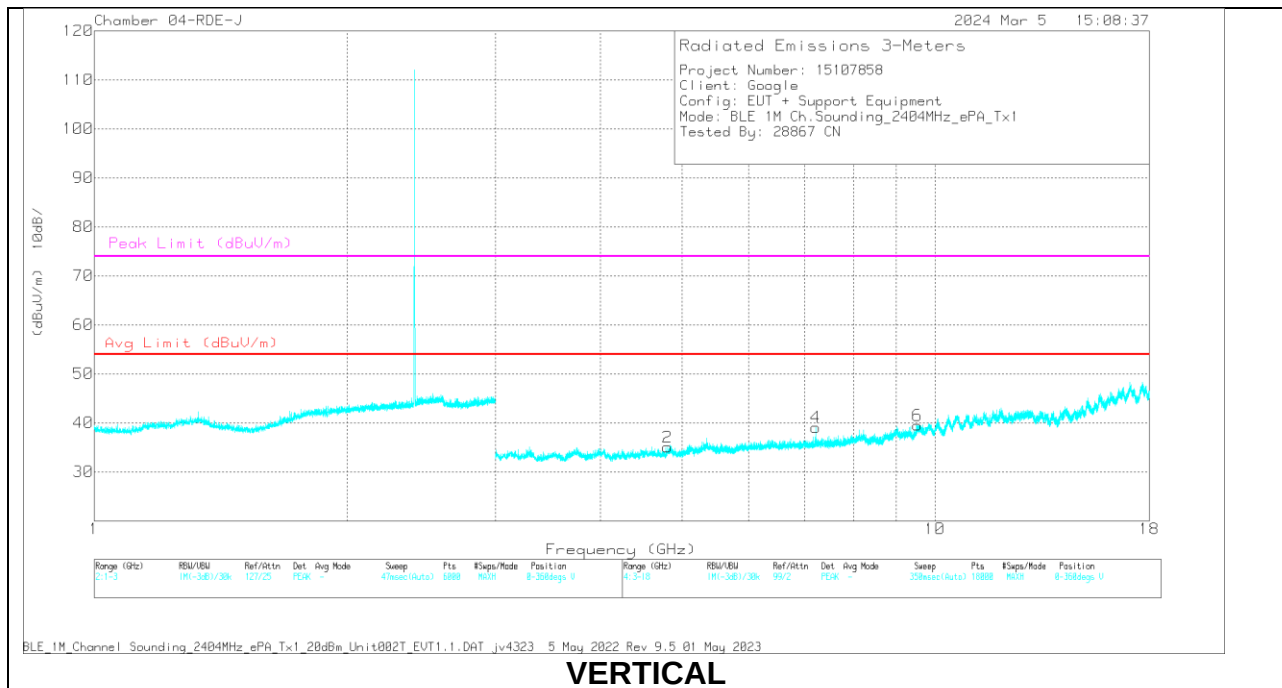
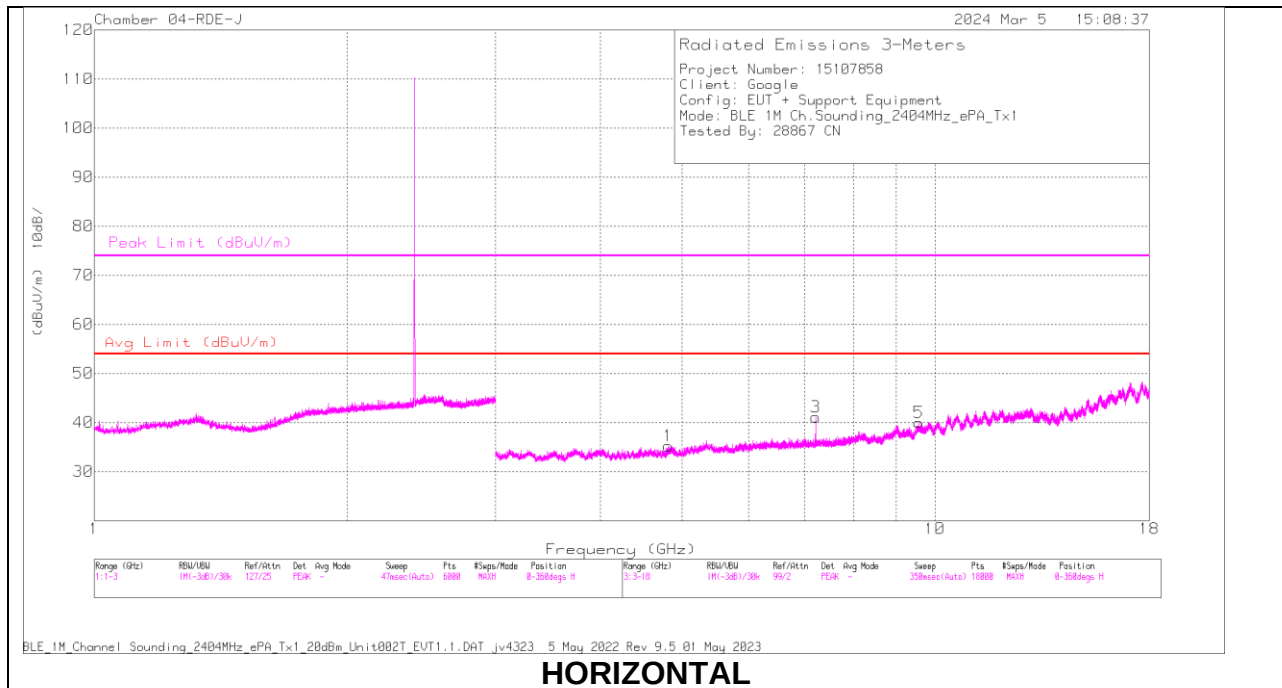


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.4835	59.27	Pk	32.2	-37	54.47	-	-	74	-19.53	319	168	V
2	*** 2.483614	60.88	Pk	32.3	-37	56.18	-	-	74	-17.82	319	168	V
3	*** 2.4835	45.03	VA1T	32.2	-37	40.23	54	-13.77	-	-	319	168	V
4	** 2.554063	47.7	VA1T	32.3	-36.9	43.1	54	-10.9	-	-	319	168	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.814682	52.58	PKFH	34	-45	41.58	-	-	74	-32.42	13	174	H
	* ** 4.814167	41.83	VA1T	34	-44.9	30.93	54	-23.07	-	-	13	174	H
2	* ** 4.81212	52.72	PKFH	34	-45.1	41.62	-	-	74	-32.38	197	247	V
	* ** 4.808582	41.66	VA1T	34	-45	30.66	54	-23.34	-	-	197	247	V
3	7.210523	51	PKFH	35.8	-42.5	44.3	-	-	74	-29.7	50	186	H
4	7.211643	50.9	PKFH	35.8	-42.5	44.2	-	-	74	-29.8	7	113	V
5	9.560714	50.85	PKFH	36.6	-40.1	47.35	-	-	74	-26.65	292	232	H
6	9.540374	51.1	PKFH	36.6	-40.1	47.6	-	-	74	-26.4	235	247	V

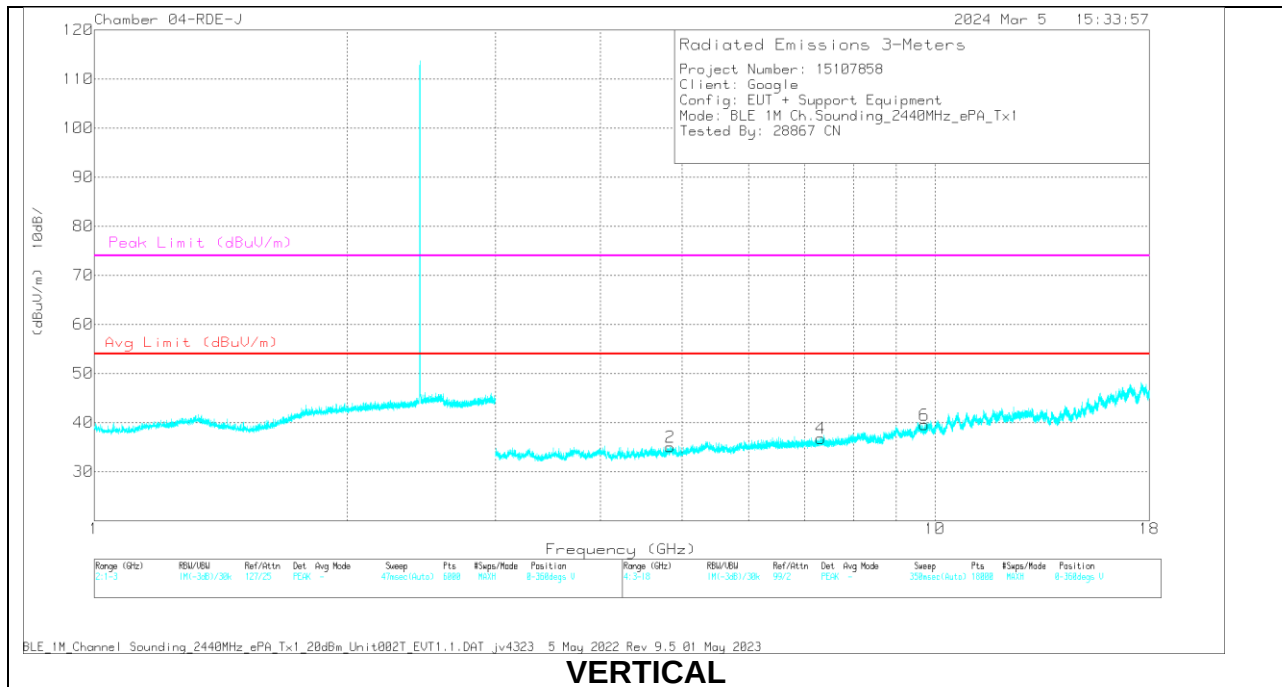
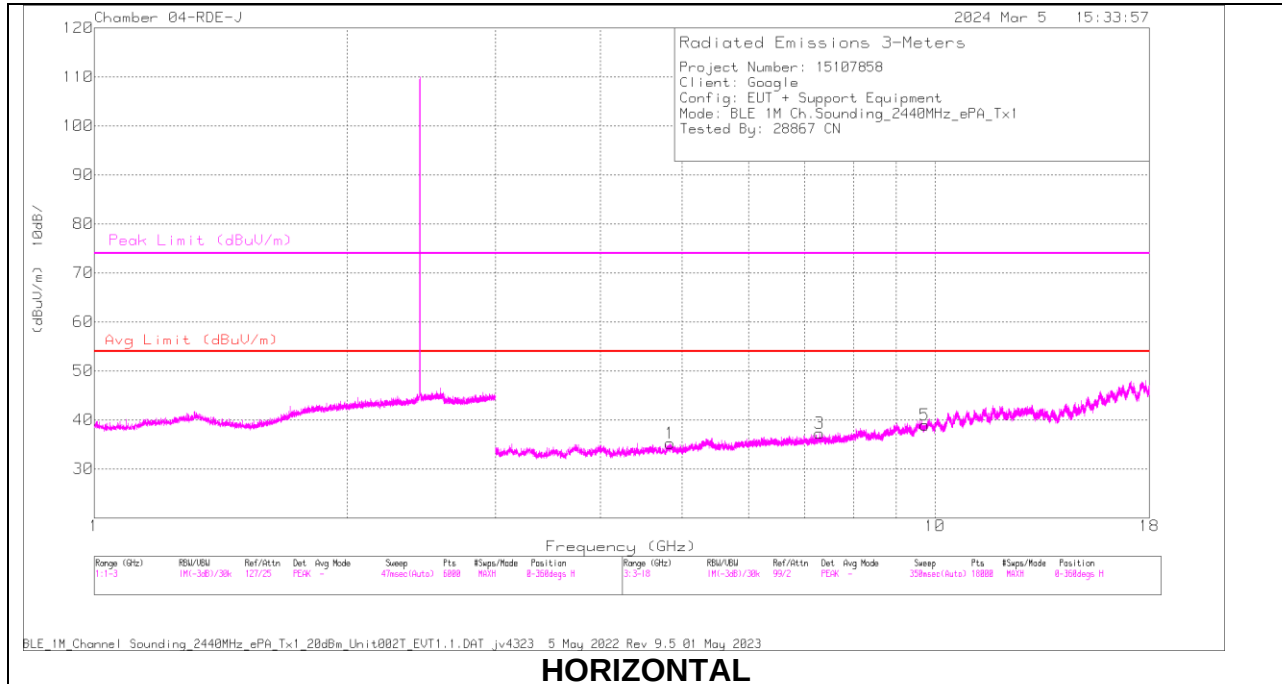
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF 3m (dB/m)	Cbl/Amp (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.844736	54.19	PKFH	34	-44.6	43.59	-	-	74	-30.41	318	279	H
	*** 4.844045	41.26	VA1T	34	-44.6	30.66	54	-23.34	-	-	318	279	H
2	*** 4.843385	52.54	PKFH	34	-44.7	41.84	-	-	74	-32.16	283	273	V
	*** 4.844527	41.36	VA1T	34	-44.6	30.76	54	-23.24	-	-	283	273	V
3	*** 7.297721	50.94	PKFH	35.8	-42.4	44.34	-	-	74	-29.66	228	106	H
	*** 7.295933	39.49	VA1T	35.8	-42.4	32.89	54	-21.11	-	-	228	106	H
4	*** 7.313374	50.26	PKFH	35.8	-42.3	43.76	-	-	74	-30.24	283	334	V
	*** 7.314038	38.8	VA1T	35.8	-42.4	32.2	54	-21.8	-	-	283	334	V
5	9.726693	39.92	VA1T	36.8	-41.1	35.62	-	-	-	-	205	172	H
	9.729032	50.76	PKFH	36.8	-41	46.56	-	-	74	-27.44	205	172	H
6	9.715497	39.8	VA1T	36.7	-41.1	35.4	-	-	-	-	283	320	V
	9.716388	51.04	PKFH	36.7	-41	46.74	-	-	74	-27.26	283	320	V

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** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration