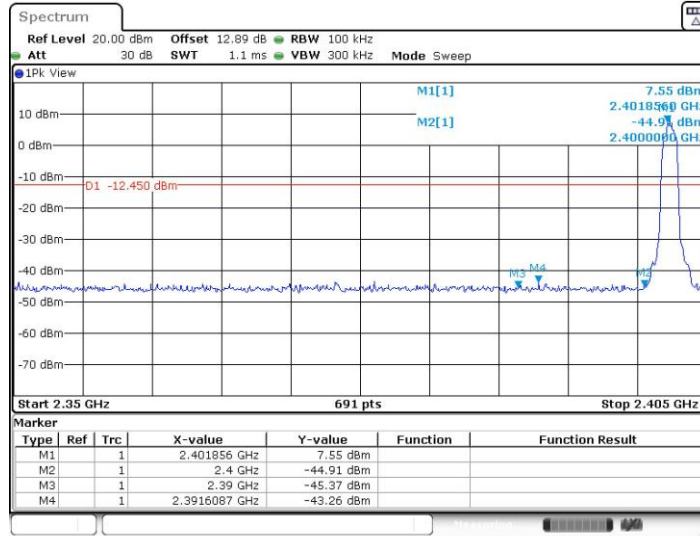
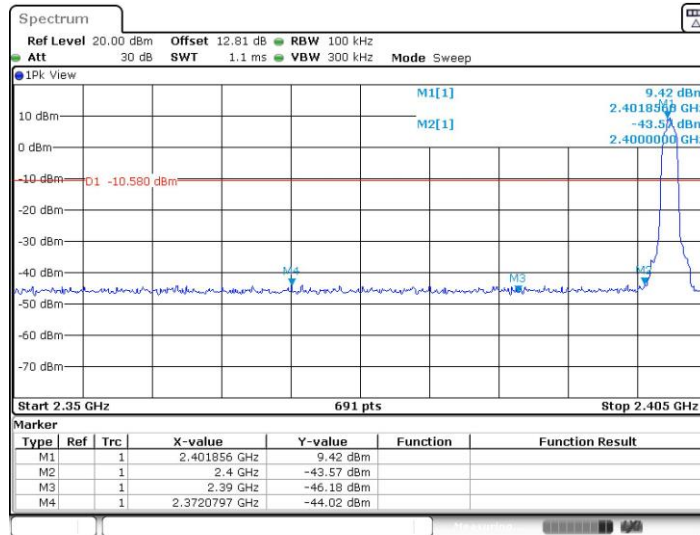




2DH1\_Ant1\_Low\_2402

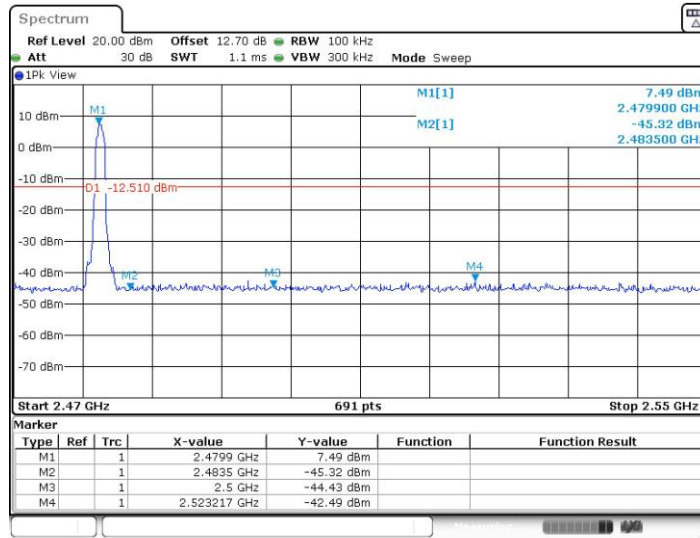


2DH1\_Ant2\_Low\_2402

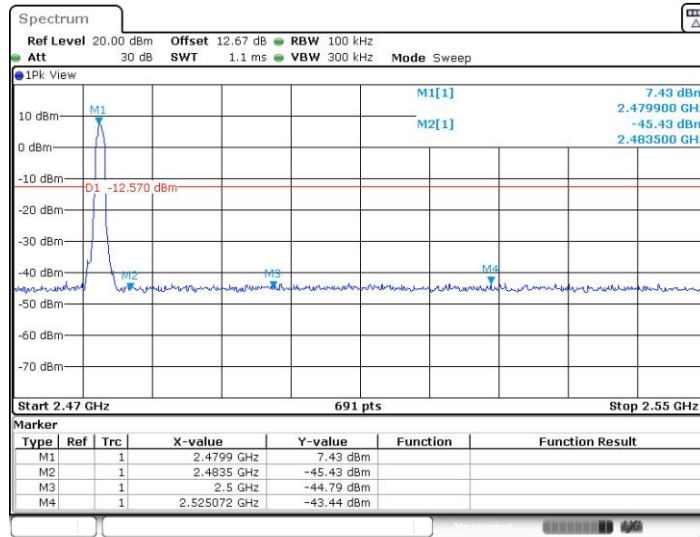




2DH1\_Ant1\_High\_2480

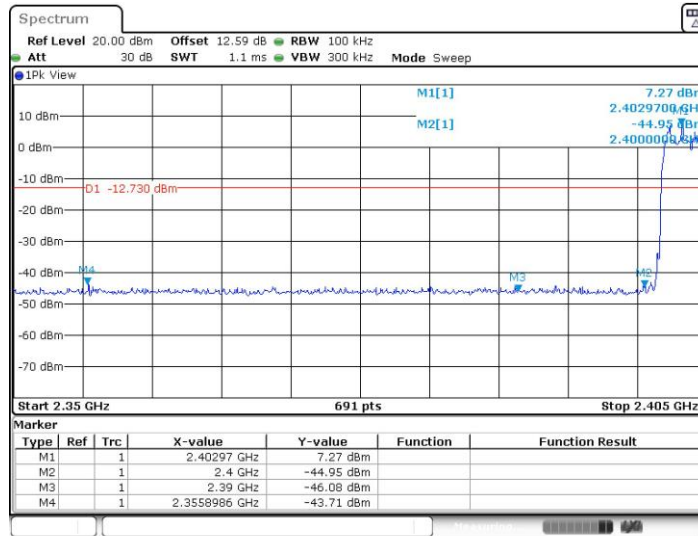


2DH1\_Ant2\_High\_2480

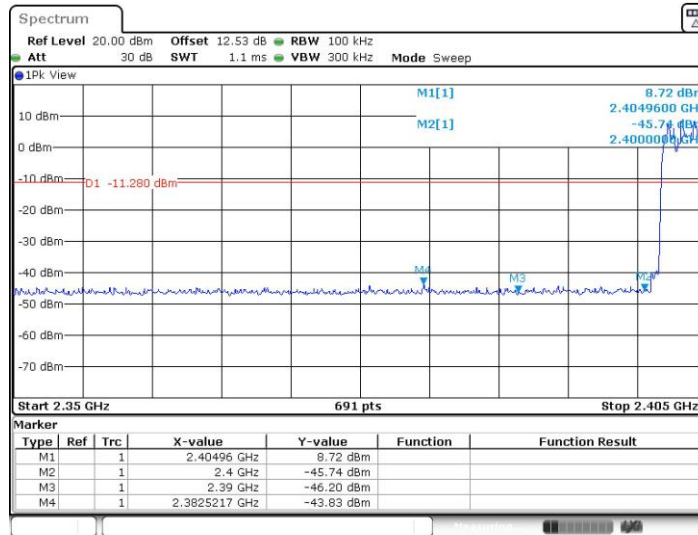




2DH1\_Ant1\_Low\_Hop\_2402

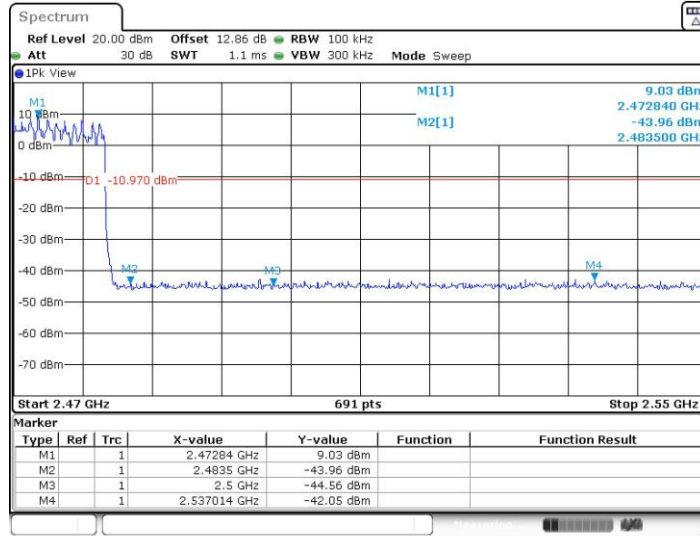


2DH1\_Ant2\_Low\_Hop\_2402



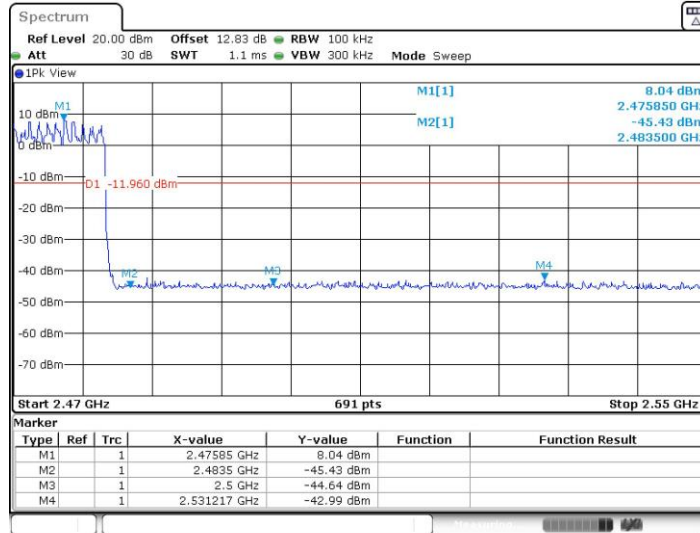


2DH1\_Ant1\_High\_Hop\_2480



Date: 20.JUN.2022 15:59:29

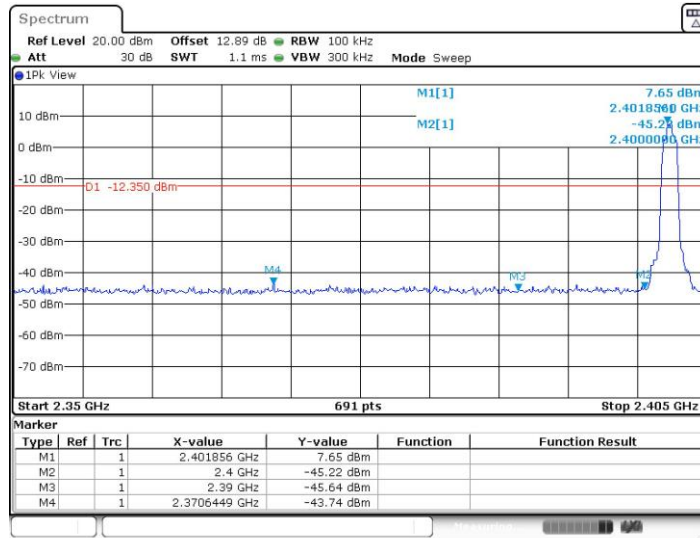
2DH1\_Ant2\_High\_Hop\_2480



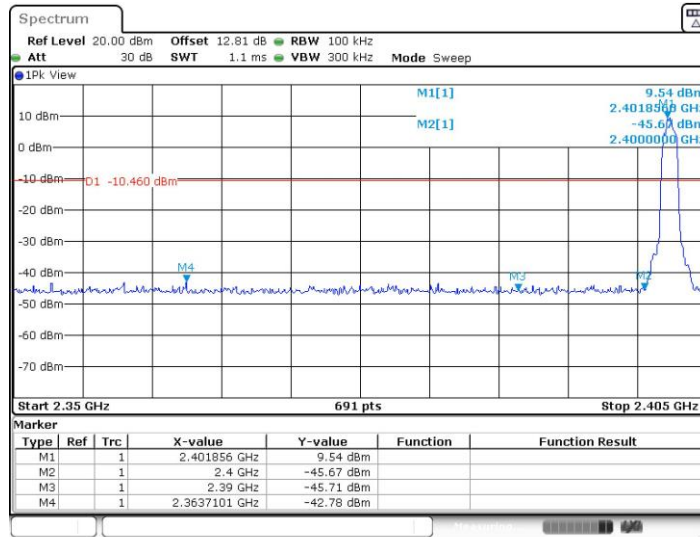
Date: 20.JUN.2022 16:43:17



3DH1\_Ant1\_Low\_2402

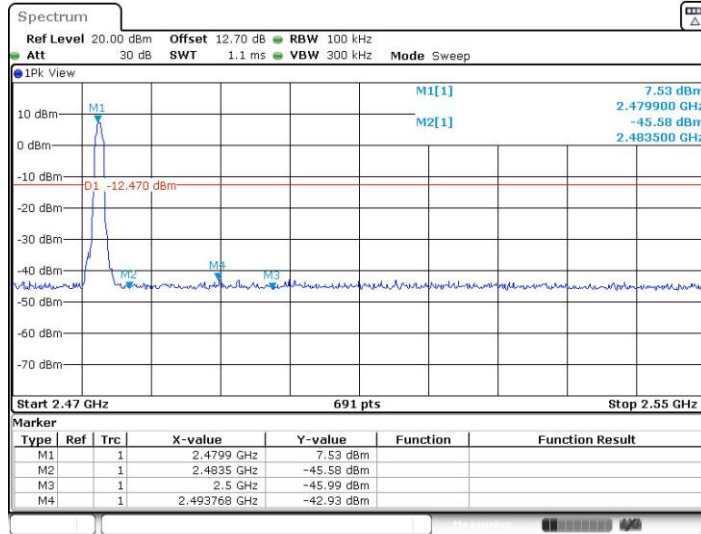


3DH1\_Ant2\_Low\_2402

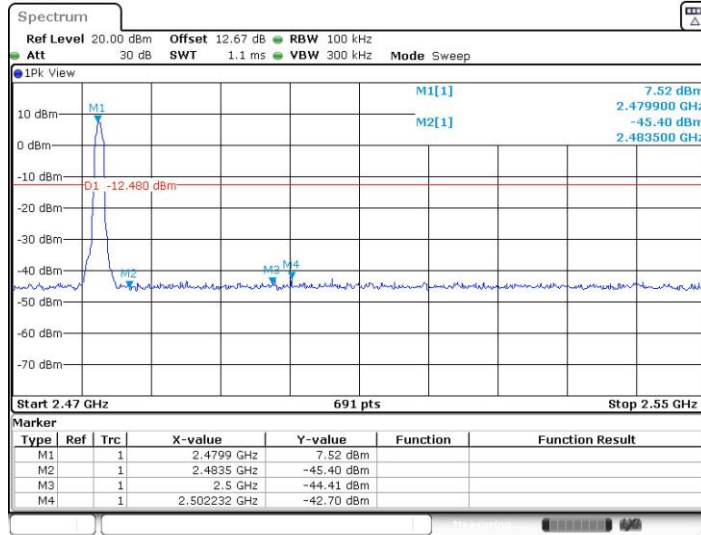




3DH1\_Ant1\_High\_2480

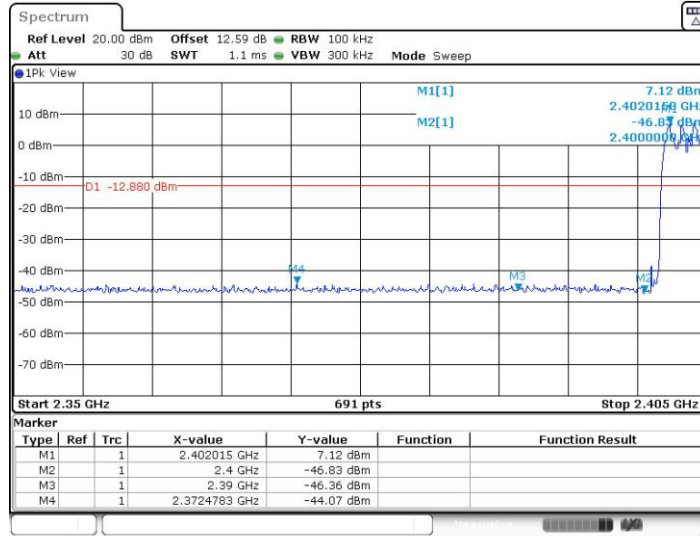


3DH1\_Ant2\_High\_2480

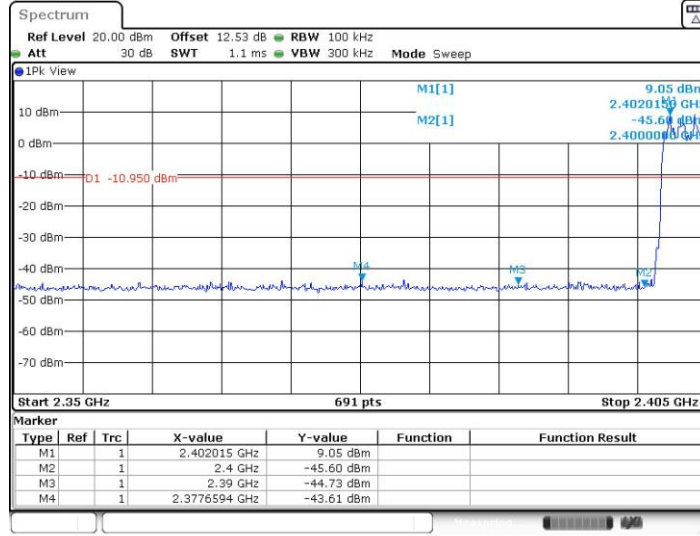




3DH1\_Ant1\_Low\_Hop\_2402

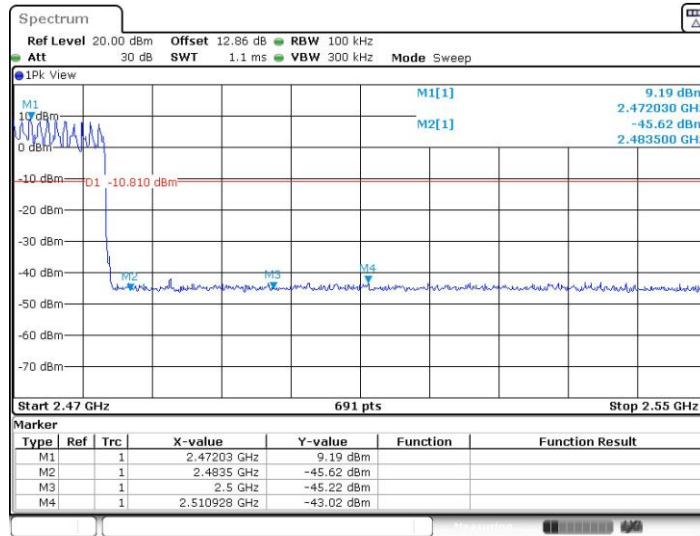


3DH1\_Ant2\_Low\_Hop\_2402



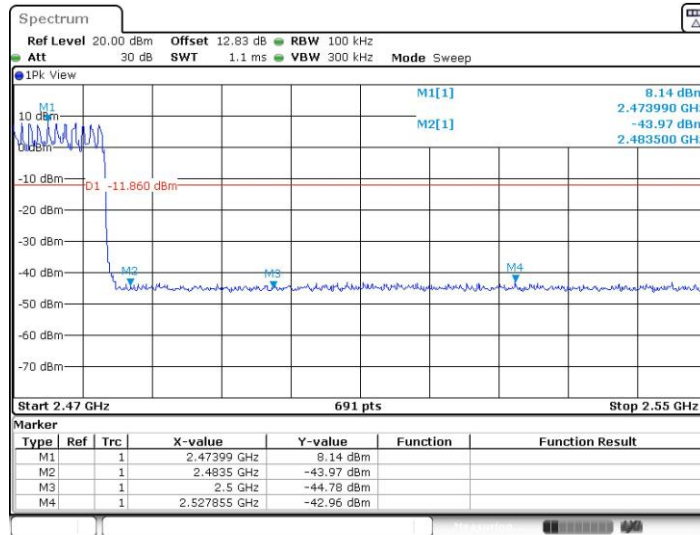


3DH1\_Ant1\_High\_Hop\_2480



Date: 20 JUN.2022 15:59:53

3DH1\_Ant2\_High\_Hop\_2480



Date: 20 JUN.2022 16:43:39



## Conducted Spurious Emission

### Test Result

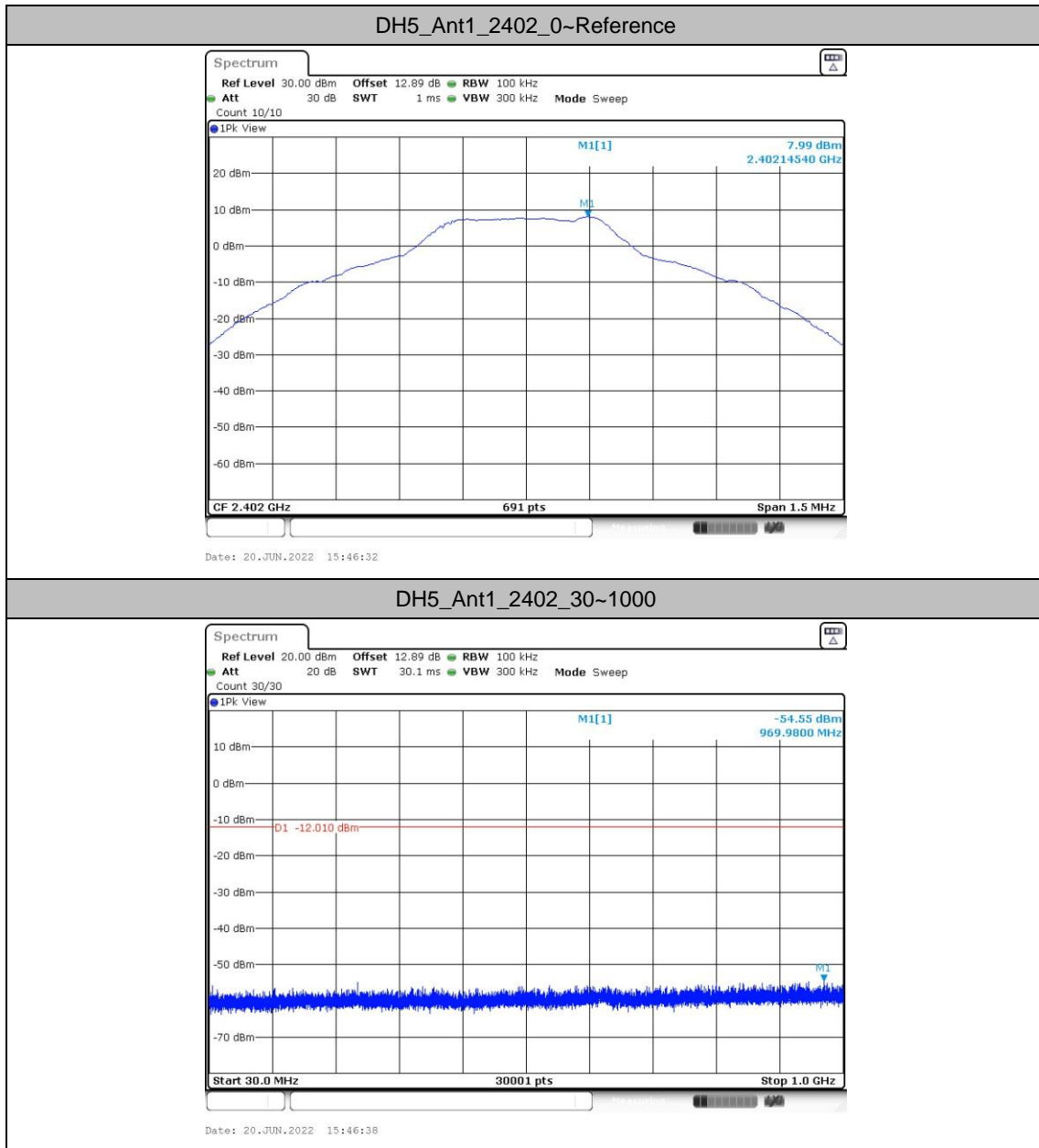
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
DH5	Ant1	2402	Reference	7.99	7.99	---	-	
			30~1000	7.99	-54.55	≤-12.01	PASS	
			1000~26500	7.99	-45.6	≤-12.01	PASS	
	Ant2	2402	Reference	9.55	9.55	---	-	
			30~1000	9.55	-54.33	≤-10.45	PASS	
			1000~26500	9.55	-45.41	≤-10.45	PASS	
	Ant1	2441	Reference	10.11	10.11	---	-	
			30~1000	10.11	-54.21	≤-9.89	PASS	
			1000~26500	10.11	-45.95	≤-9.89	PASS	
	Ant2	2441	Reference	8.81	8.81	---	-	
			30~1000	8.81	-54.19	≤-11.19	PASS	
			1000~26500	8.81	-45.61	≤-11.19	PASS	
	Ant1	2480	Reference	7.67	7.67	---	-	
			30~1000	7.67	-54.58	≤-12.33	PASS	
			1000~26500	7.67	-45.01	≤-12.33	PASS	
	Ant2	2480	Reference	7.36	7.36	---	-	
			30~1000	7.36	-54.56	≤-12.64	PASS	
			1000~26500	7.36	-45.06	≤-12.64	PASS	
	2DH1	Ant1	2402	Reference	7.48	7.48	---	-
				30~1000	7.48	-54.78	≤-12.52	PASS
				1000~26500	7.48	-45.01	≤-12.52	PASS
		Ant2	2402	Reference	9.37	9.37	---	-
				30~1000	9.37	-54.38	≤-10.63	PASS
				1000~26500	9.37	-45.7	≤-10.63	PASS
Ant1		2441	Reference	9.82	9.82	---	-	
			30~1000	9.82	-54.01	≤-10.18	PASS	
			1000~26500	9.82	-45.36	≤-10.18	PASS	
Ant2		2441	Reference	9.47	9.47	---	-	
			30~1000	9.47	-54.05	≤-10.53	PASS	
			1000~26500	9.47	-44.97	≤-10.53	PASS	
Ant1		2480	Reference	7.48	7.48	---	-	
			30~1000	7.48	-54.71	≤-12.52	PASS	
			1000~26500	7.48	-45.5	≤-12.52	PASS	
Ant2		2480	Reference	7.43	7.43	---	-	
			30~1000	7.43	-54.55	≤-12.57	PASS	



3DH1	Ant1	2402	1000~26500	7.43	-45.53	≤-12.57	PASS	
			Reference	7.64	7.64	---	-	
			30~1000	7.64	-54.59	≤-12.36	PASS	
	Ant2	2402	1000~26500	7.64	-45	≤-12.36	PASS	
			Reference	9.52	9.52	---	-	
			30~1000	9.52	-54.56	≤-10.48	PASS	
	Ant1	2441	1000~26500	9.52	-45.63	≤-10.48	PASS	
			Reference	9.95	9.95	---	-	
			30~1000	9.95	-54.22	≤-10.05	PASS	
	Ant2	2441	1000~26500	9.95	-45.81	≤-10.05	PASS	
			Reference	8.80	8.80	---	-	
			30~1000	8.80	-54.65	≤-11.2	PASS	
	Ant1	2480	1000~26500	8.80	-45.2	≤-11.2	PASS	
			Reference	7.64	7.64	---	-	
			30~1000	7.64	-53.99	≤-12.36	PASS	
	Ant2	2480	1000~26500	7.64	-45.6	≤-12.36	PASS	
			Reference	7.61	7.61	---	-	
			30~1000	7.61	-53.86	≤-12.39	PASS	
				1000~26500	7.61	-45.15	≤-12.39	PASS

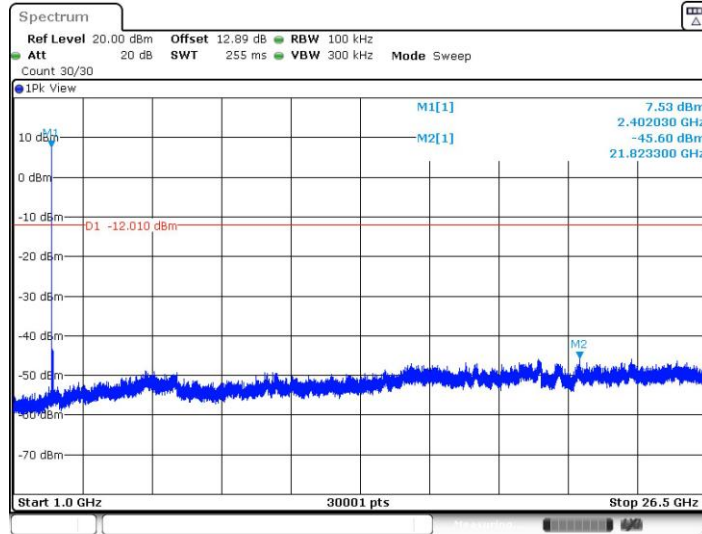


### Test Graphs



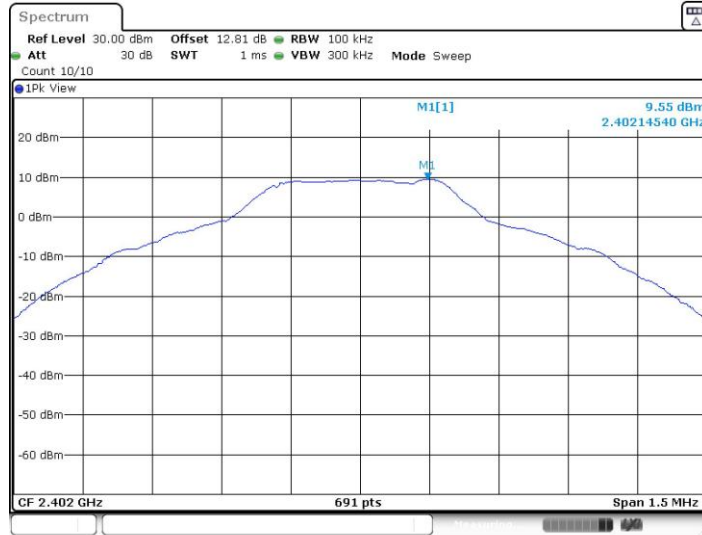


DH5\_Ant1\_2402\_1000~26500



Date: 20.JUN.2022 15:47:15

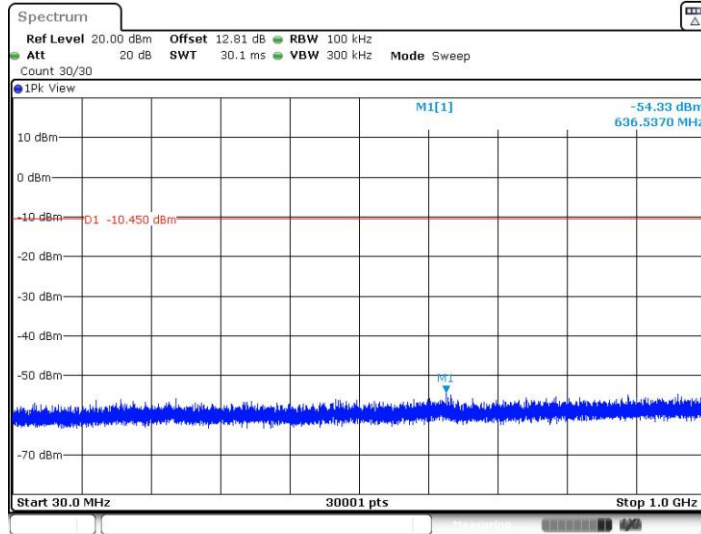
DH5\_Ant2\_2402\_0~Reference



Date: 20.JUN.2022 16:29:16

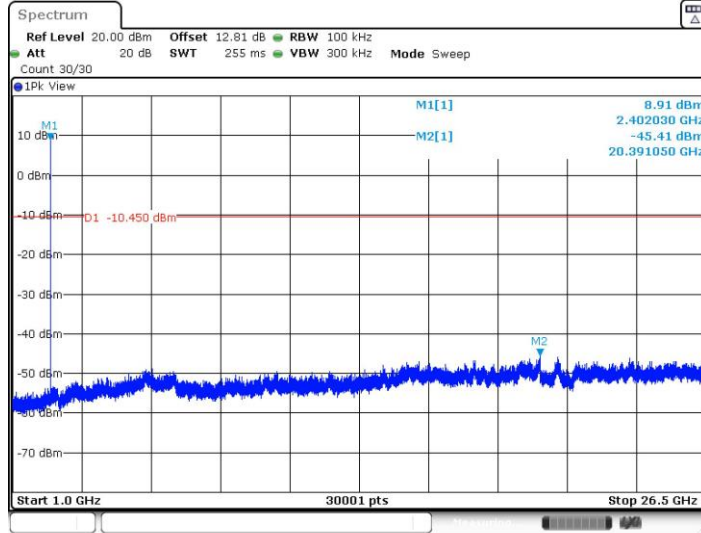


DH5\_Ant2\_2402\_30~1000



Date: 20 JUN. 2022 16:29:22

DH5\_Ant2\_2402\_1000~26500



Date: 20 JUN. 2022 16:29:59

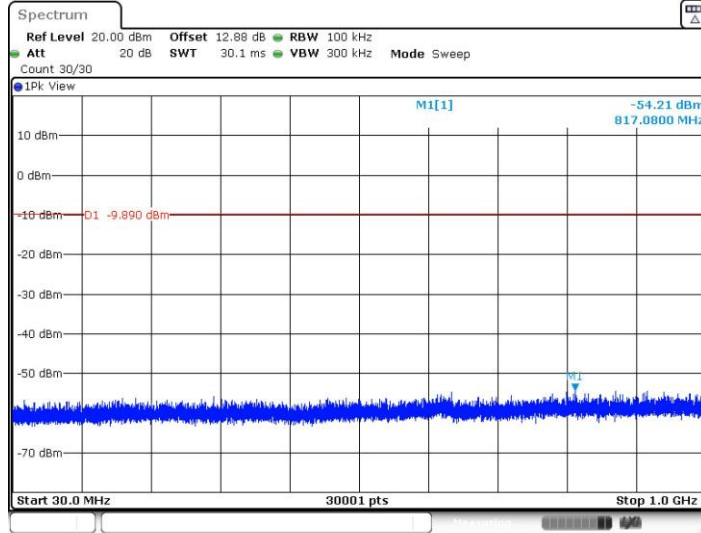


DH5\_Ant1\_2441\_0~Reference



Date: 20 JUN. 2022 15:47:49

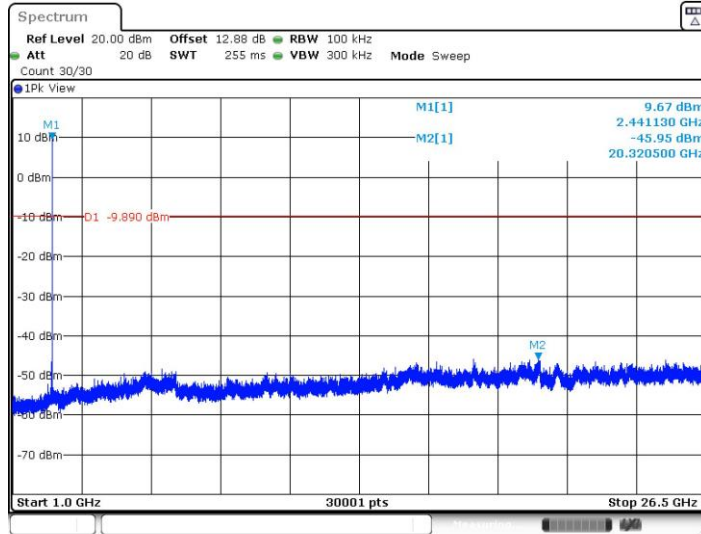
DH5\_Ant1\_2441\_30~1000



Date: 20 JUN. 2022 15:47:55



DH5\_Ant1\_2441\_1000~26500



Date: 20 JUN.2022 15:48:32

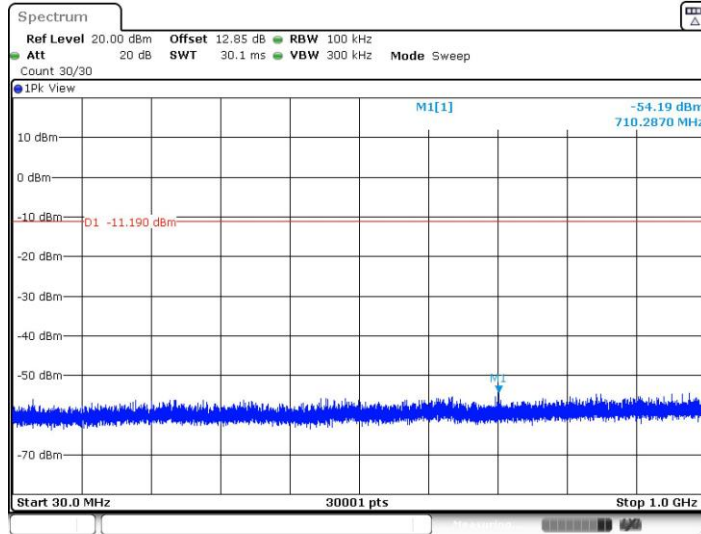
DH5\_Ant2\_2441\_0~Reference



Date: 20 JUN.2022 16:30:35

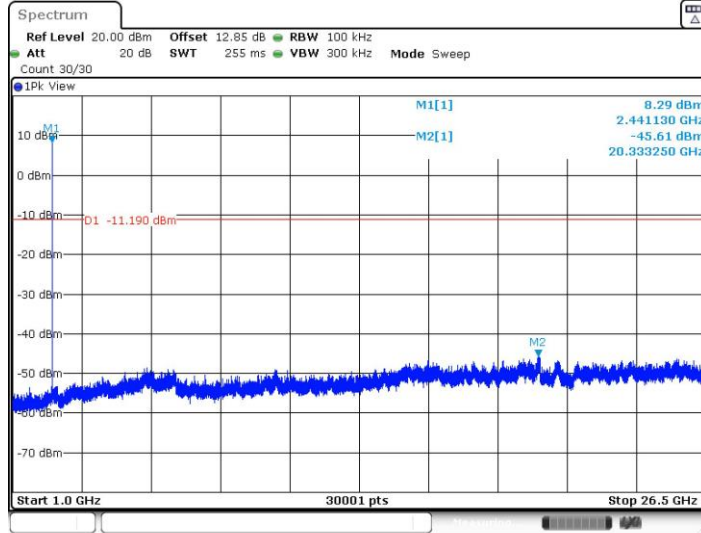


DH5\_Ant2\_2441\_30~1000

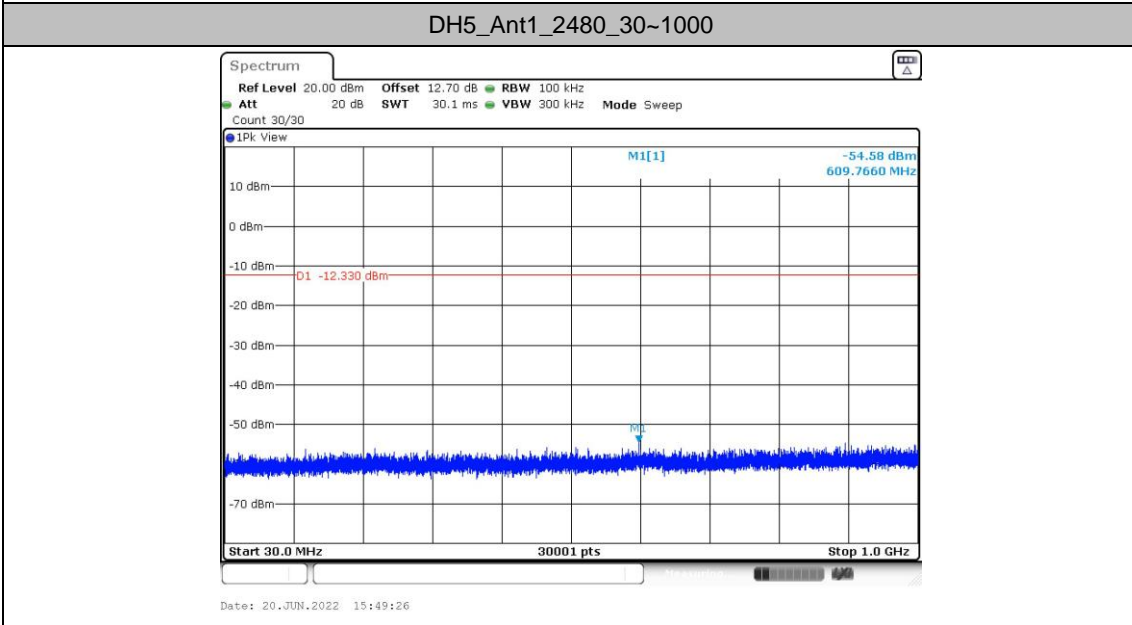
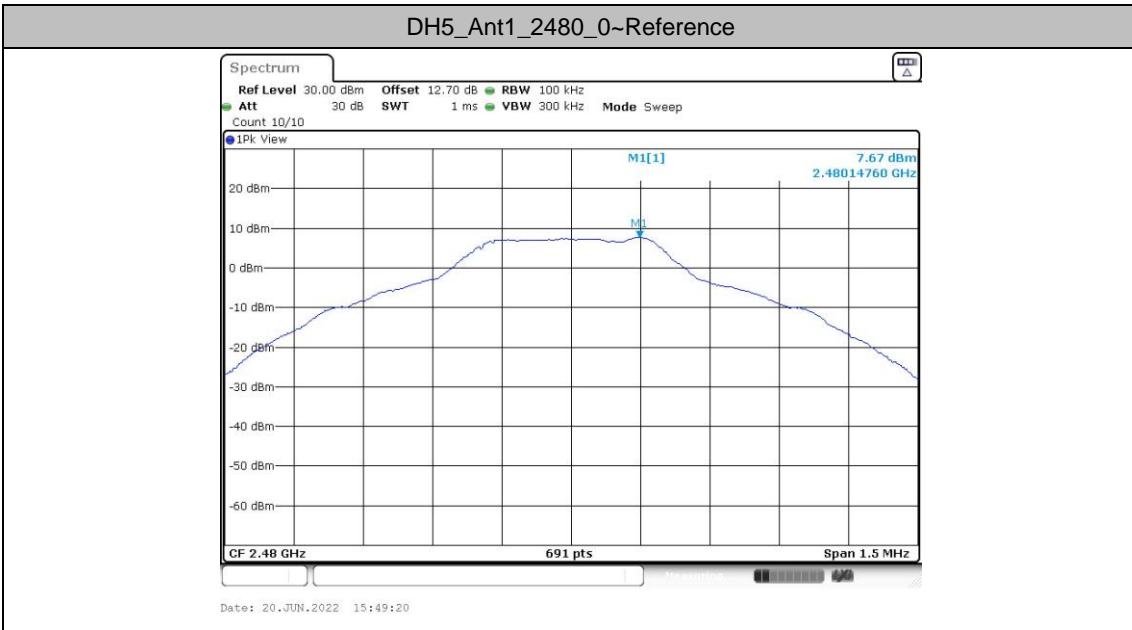


Date: 20 JUN. 2022 16:30:41

DH5\_Ant2\_2441\_1000~26500

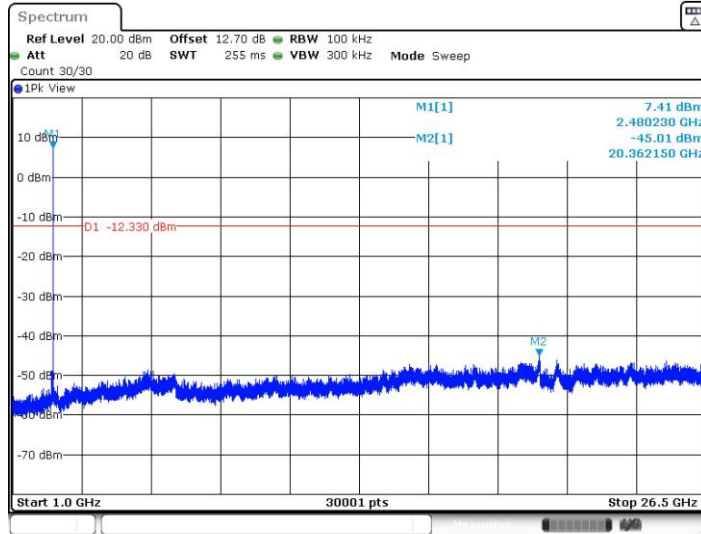


Date: 20 JUN. 2022 16:31:18



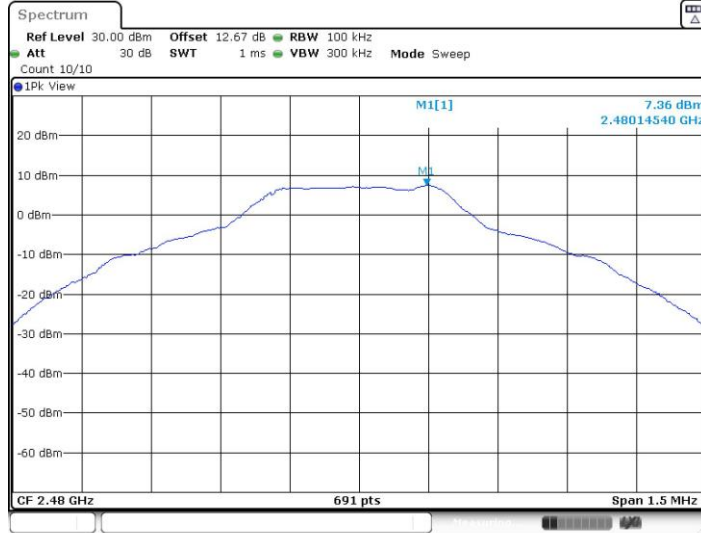


DH5\_Ant1\_2480\_1000~26500



Date: 20 JUN.2022 15:50:03

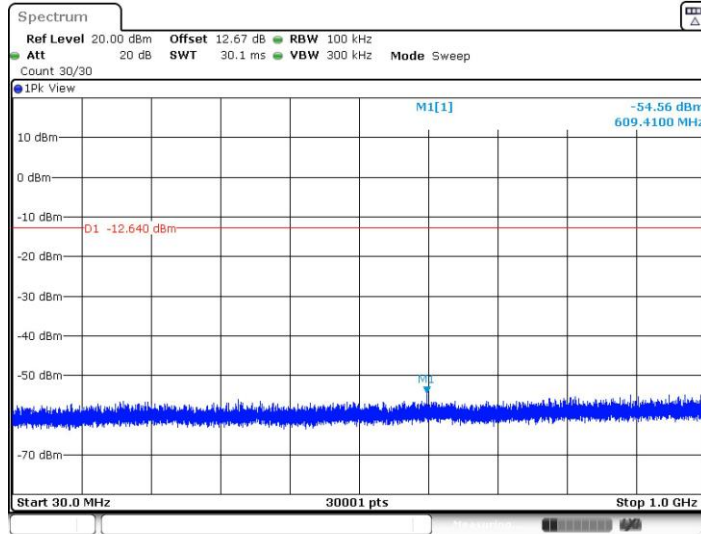
DH5\_Ant2\_2480\_0~Reference



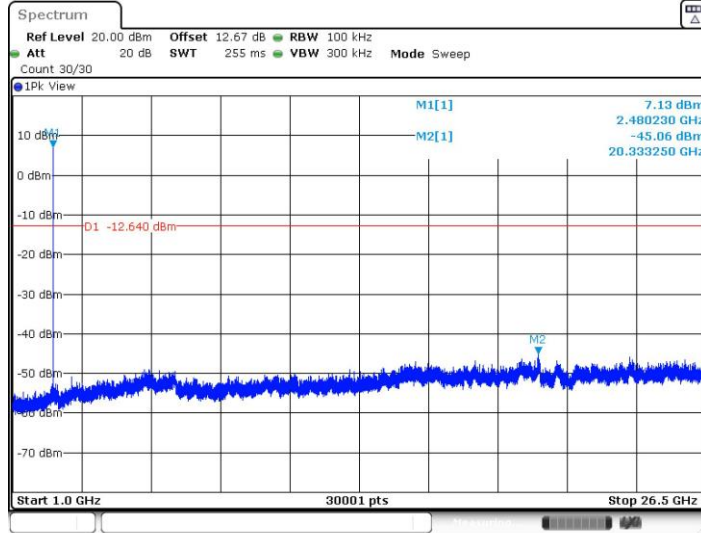
Date: 20 JUN.2022 16:32:06



DH5\_Ant2\_2480\_30~1000

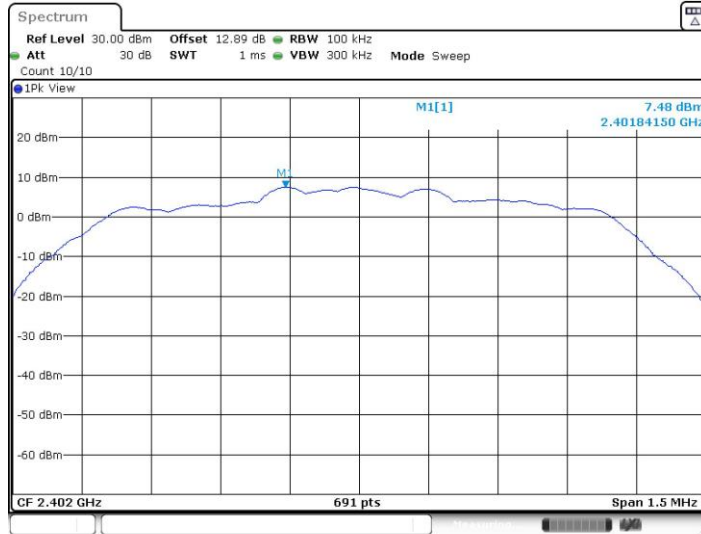


DH5\_Ant2\_2480\_1000~26500



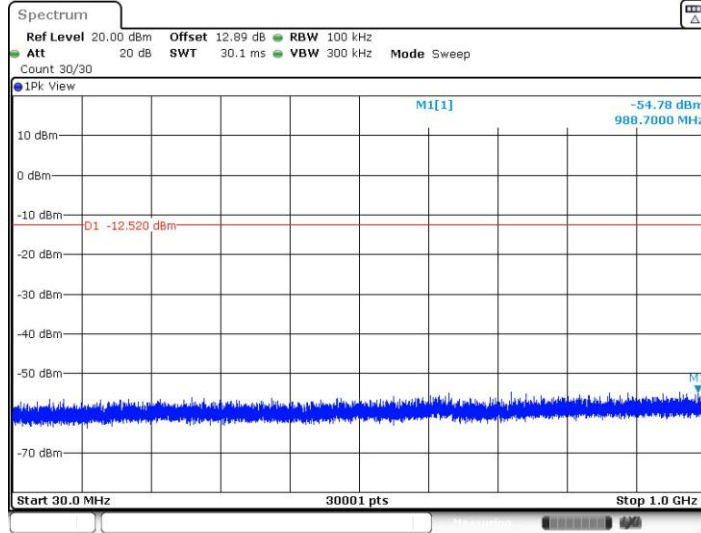


2DH1\_Ant1\_2402\_0~Reference



Date: 20 JUN. 2022 15:50:51

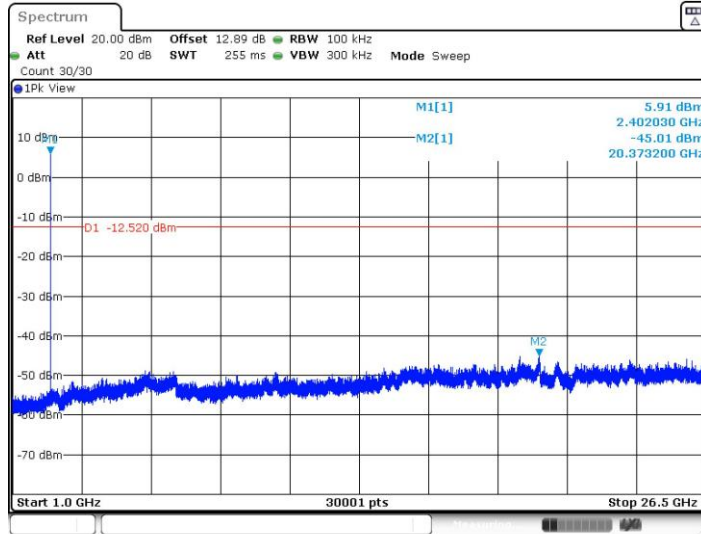
2DH1\_Ant1\_2402\_30~1000



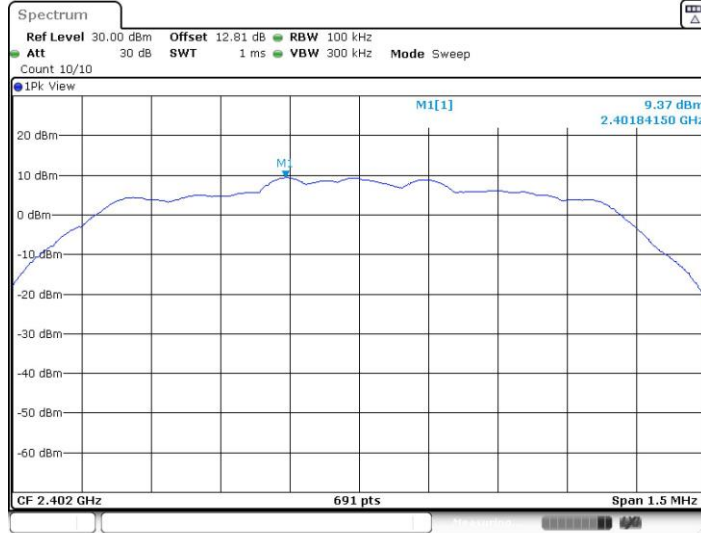
Date: 20 JUN. 2022 15:50:57



2DH1\_Ant1\_2402\_1000~26500

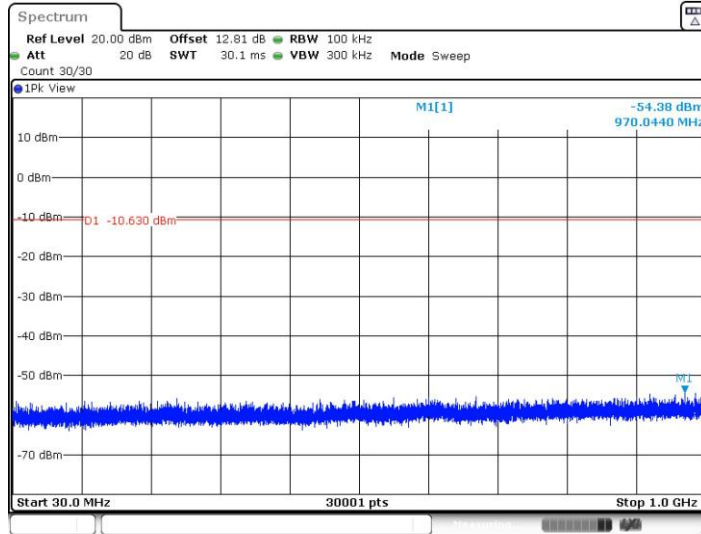


2DH1\_Ant2\_2402\_0~Reference



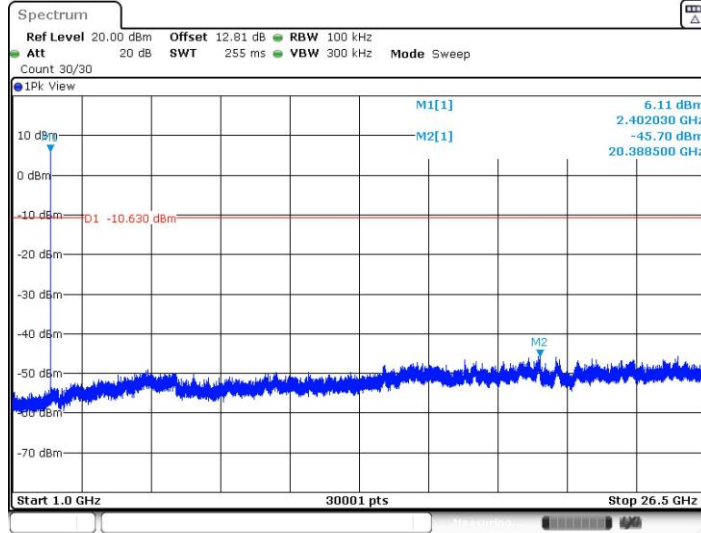


2DH1\_Ant2\_2402\_30~1000



Date: 20 JUN. 2022 16:33:43

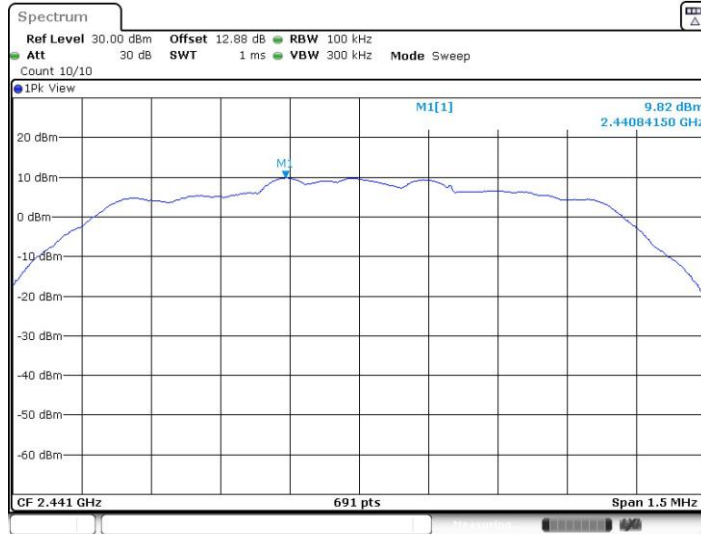
2DH1\_Ant2\_2402\_1000~26500



Date: 20 JUN. 2022 16:34:20

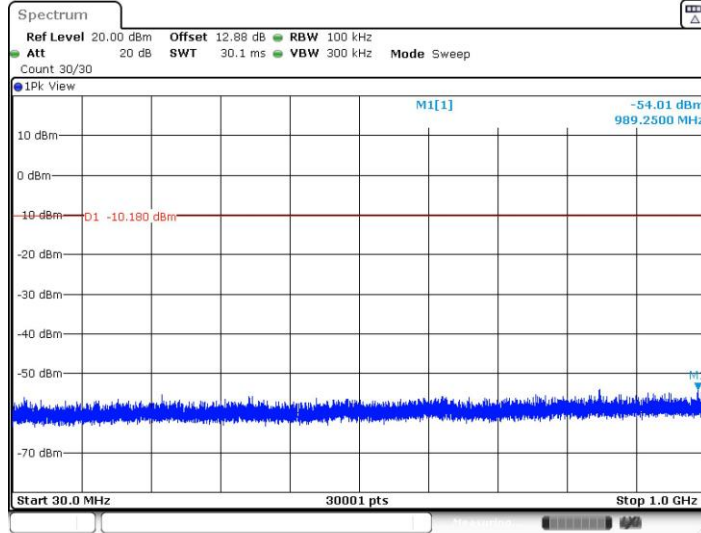


2DH1\_Ant1\_2441\_0~Reference



Date: 20 JUN. 2022 15:52:08

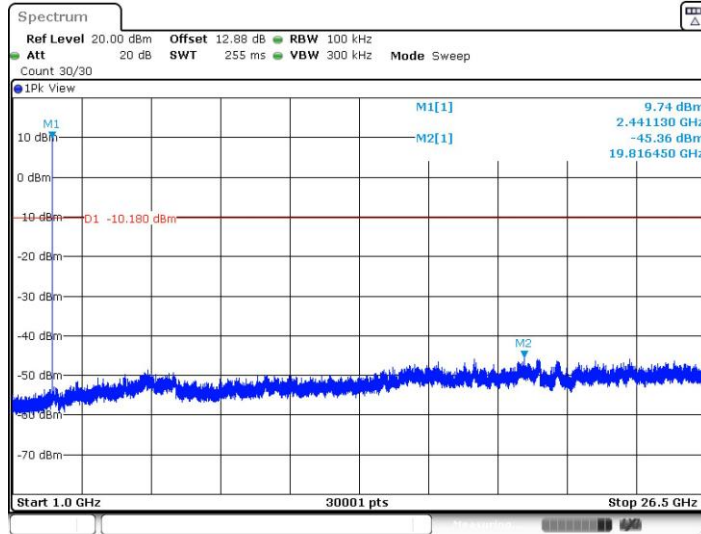
2DH1\_Ant1\_2441\_30~1000



Date: 20 JUN. 2022 15:52:14

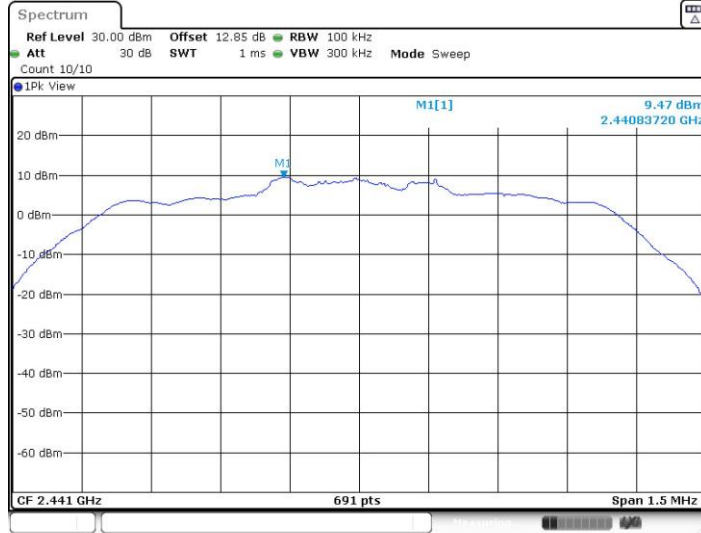


2DH1\_Ant1\_2441\_1000~26500



Date: 20.JUN.2022 15:52:51

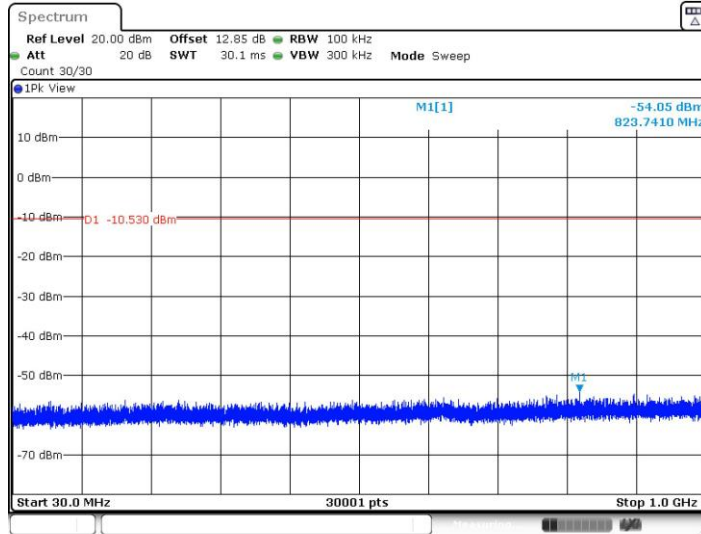
2DH1\_Ant2\_2441\_0~Reference



Date: 20.JUN.2022 16:34:53

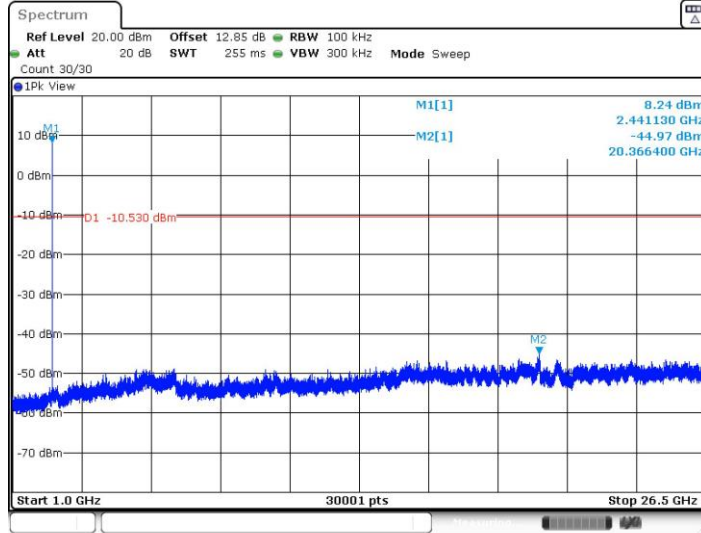


2DH1\_Ant2\_2441\_30~1000



Date: 20 JUN. 2022 16:35:00

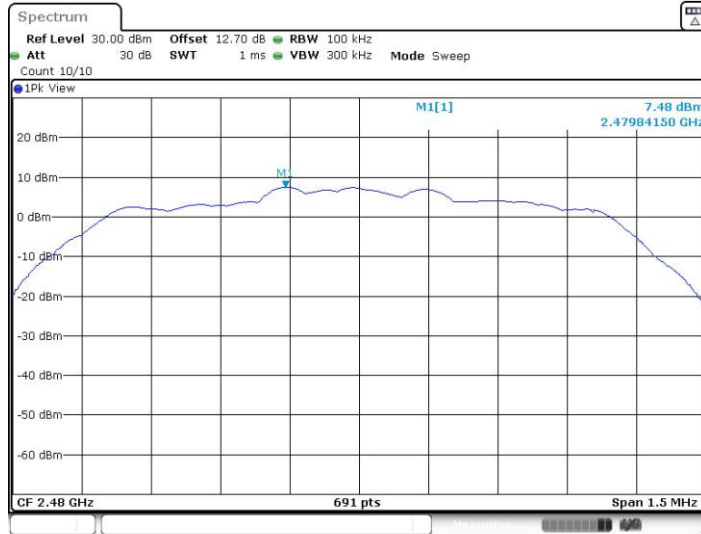
2DH1\_Ant2\_2441\_1000~26500



Date: 20 JUN. 2022 16:35:37

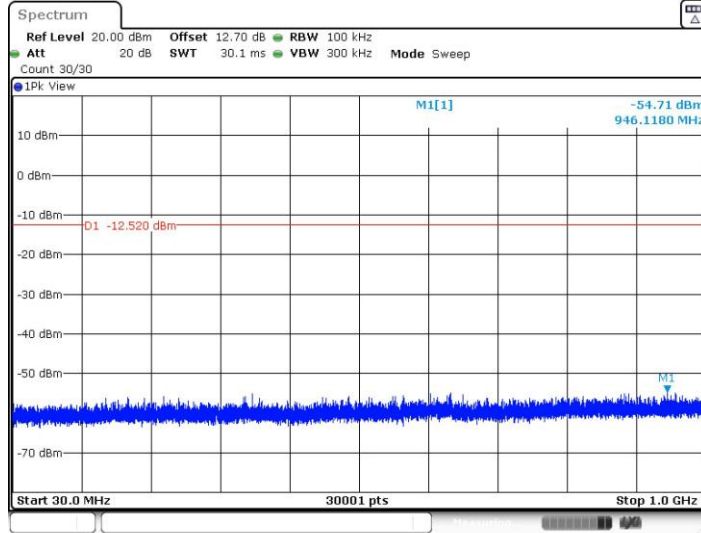


2DH1\_Ant1\_2480\_0~Reference



Date: 20 JUN. 2022 15:53:38

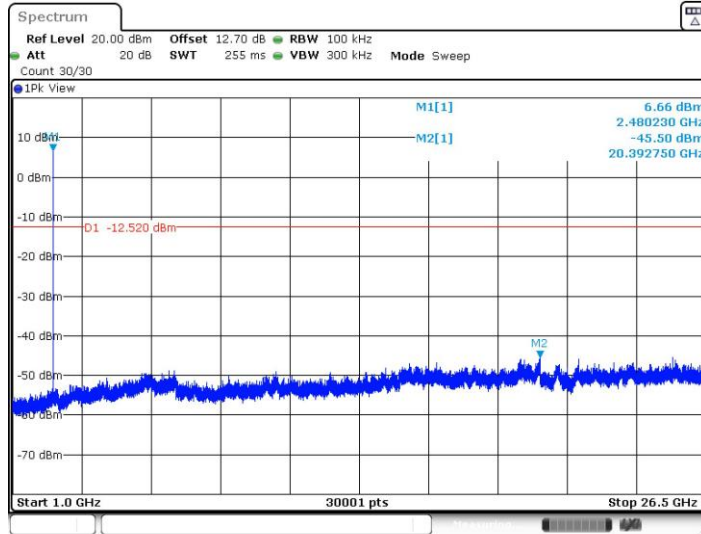
2DH1\_Ant1\_2480\_30~1000



Date: 20 JUN. 2022 15:53:45

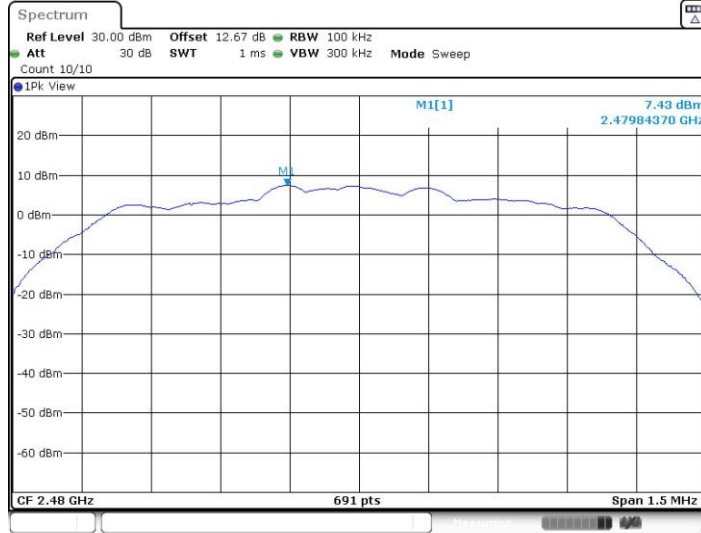


2DH1\_Ant1\_2480\_1000~26500



Date: 20.JUN.2022 15:54:21

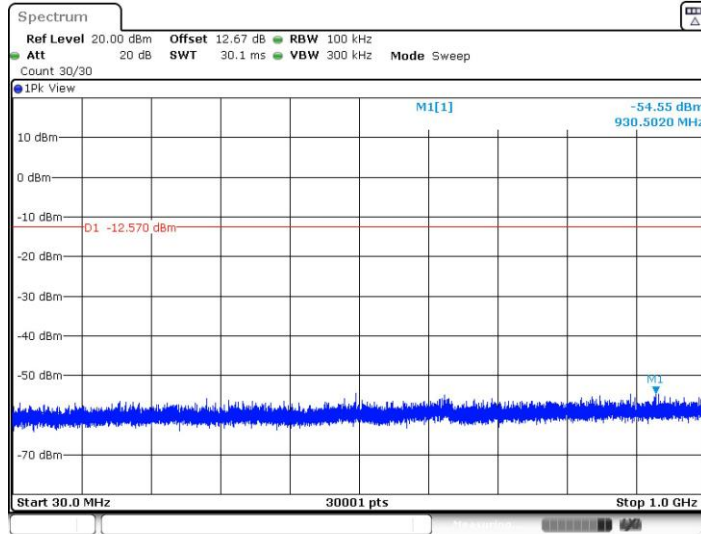
2DH1\_Ant2\_2480\_0~Reference



Date: 20.JUN.2022 16:36:24

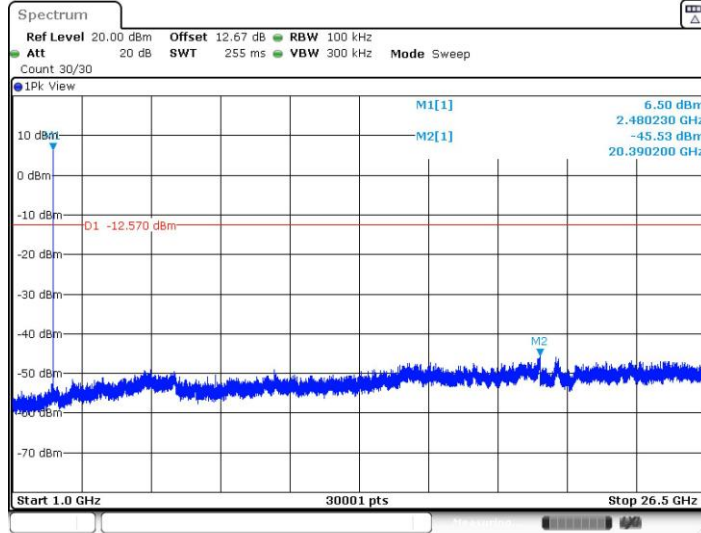


2DH1\_Ant2\_2480\_30~1000



Date: 20 JUN.2022 16:36:31

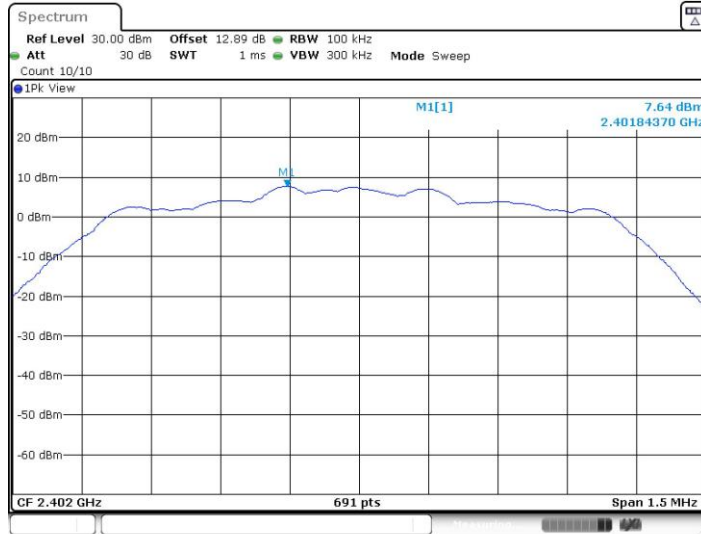
2DH1\_Ant2\_2480\_1000~26500



Date: 20 JUN.2022 16:37:08

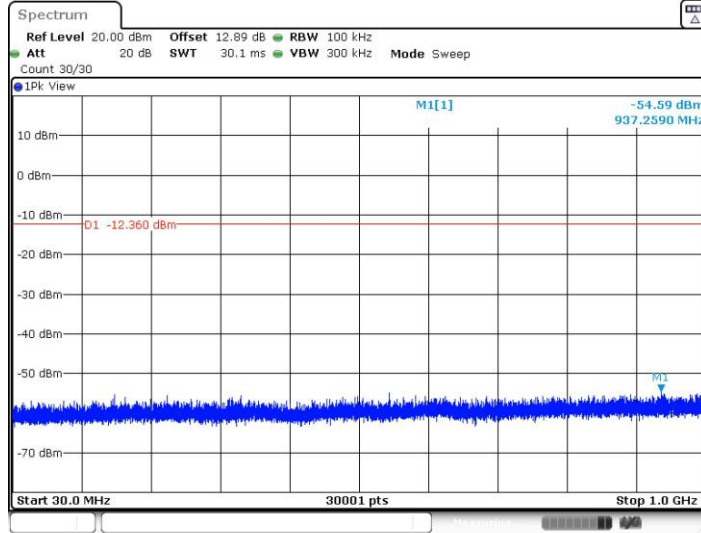


3DH1\_Ant1\_2402\_0~Reference



Date: 20 JUN. 2022 15:55:07

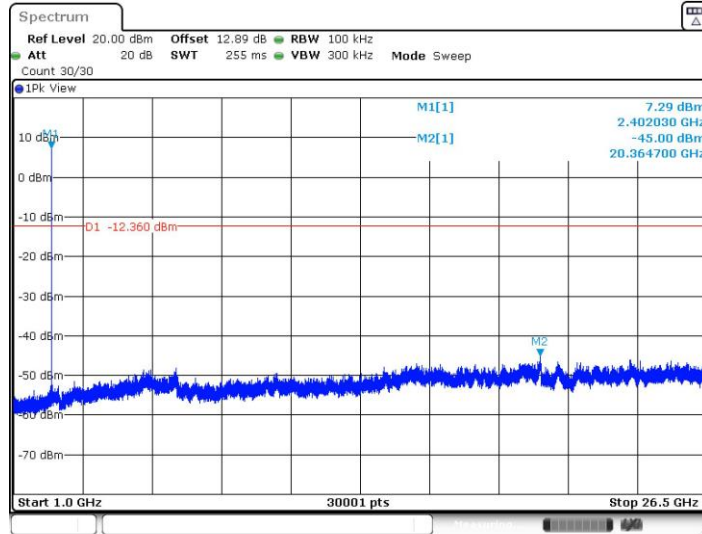
3DH1\_Ant1\_2402\_30~1000



Date: 20 JUN. 2022 15:55:14

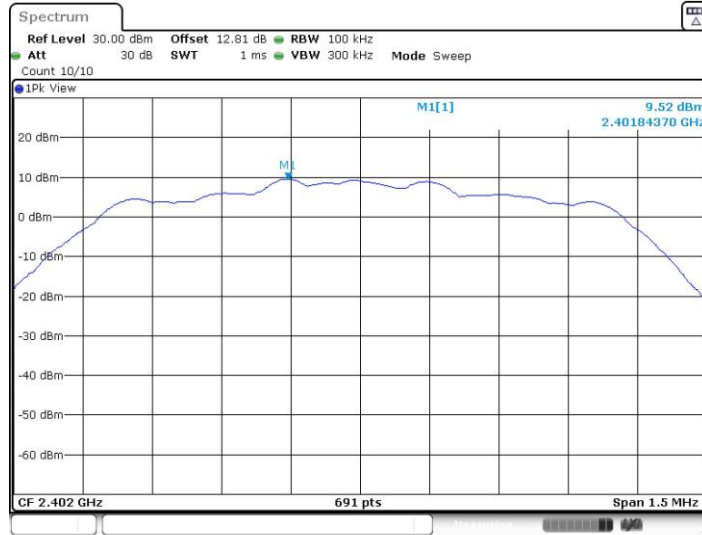


3DH1\_Ant1\_2402\_1000~26500



Date: 20 JUN.2022 15:55:51

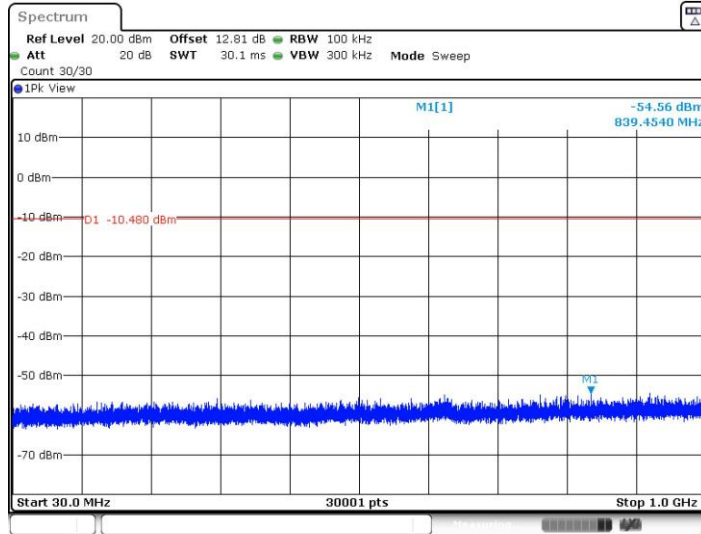
3DH1\_Ant2\_2402\_0~Reference



Date: 20 JUN.2022 16:37:54

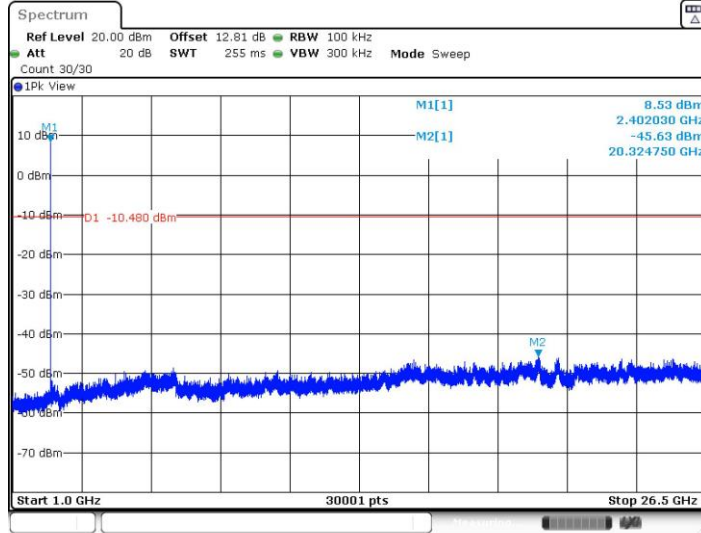


3DH1\_Ant2\_2402\_30~1000



Date: 20 JUN. 2022 16:38:00

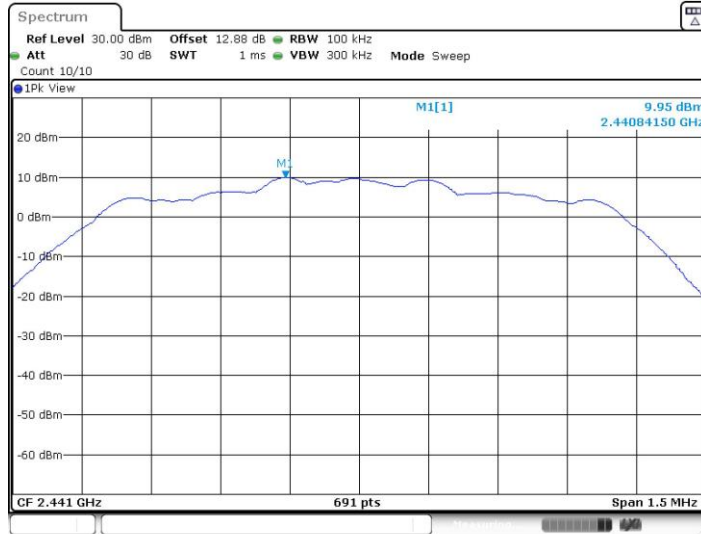
3DH1\_Ant2\_2402\_1000~26500



Date: 20 JUN. 2022 16:38:37

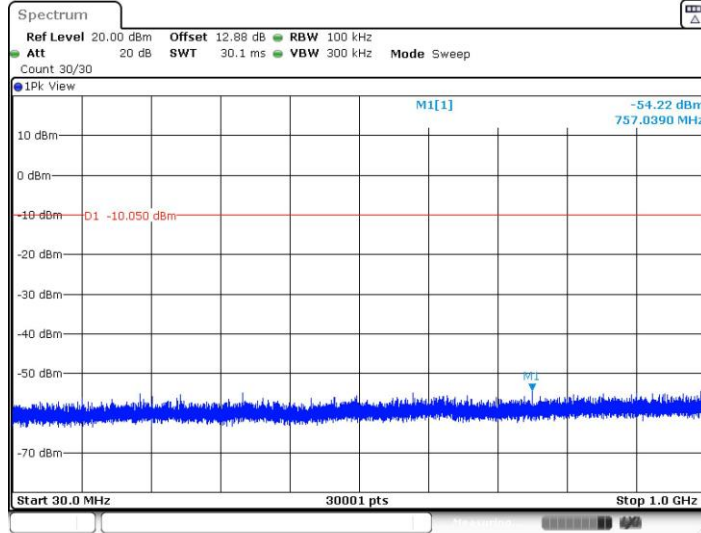


3DH1\_Ant1\_2441\_0~Reference



Date: 20 JUN. 2022 15:56:26

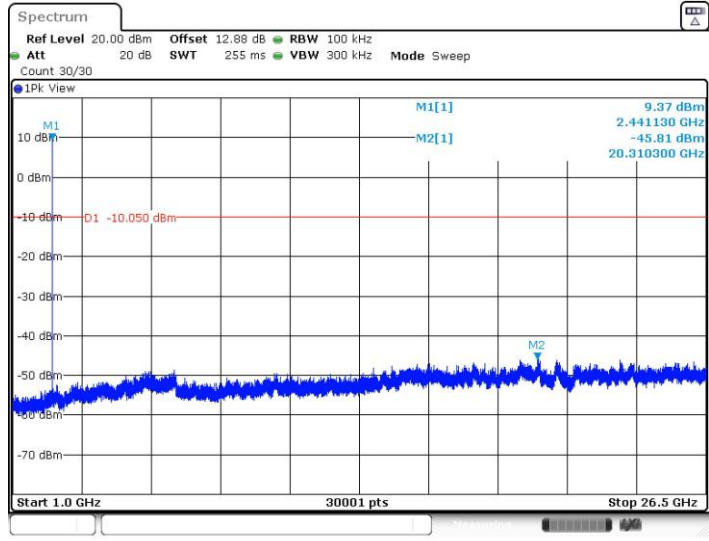
3DH1\_Ant1\_2441\_30~1000



Date: 20 JUN. 2022 15:56:33

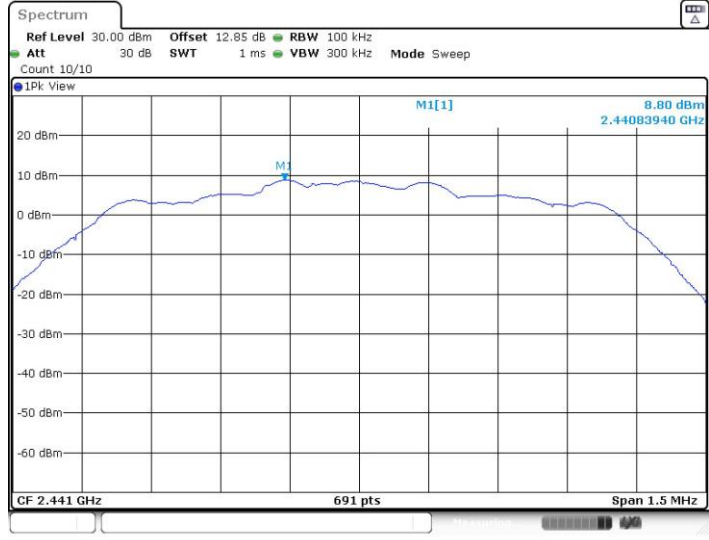


3DH1\_Ant1\_2441\_1000~26500



Date: 20.JUN.2022 15:57:10

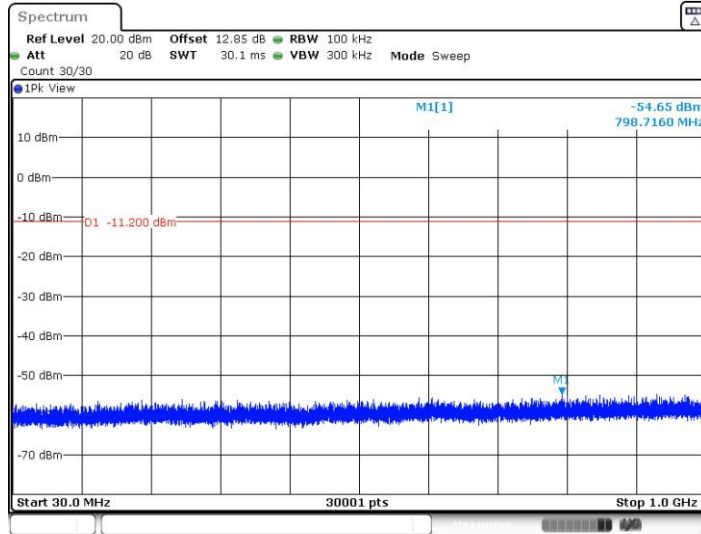
3DH1\_Ant2\_2441\_0~Reference



Date: 20.JUN.2022 16:39:13

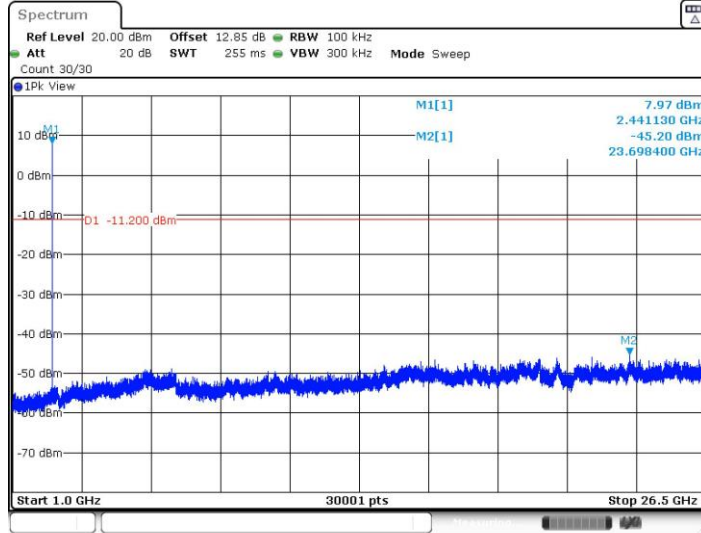


3DH1\_Ant2\_2441\_30~1000

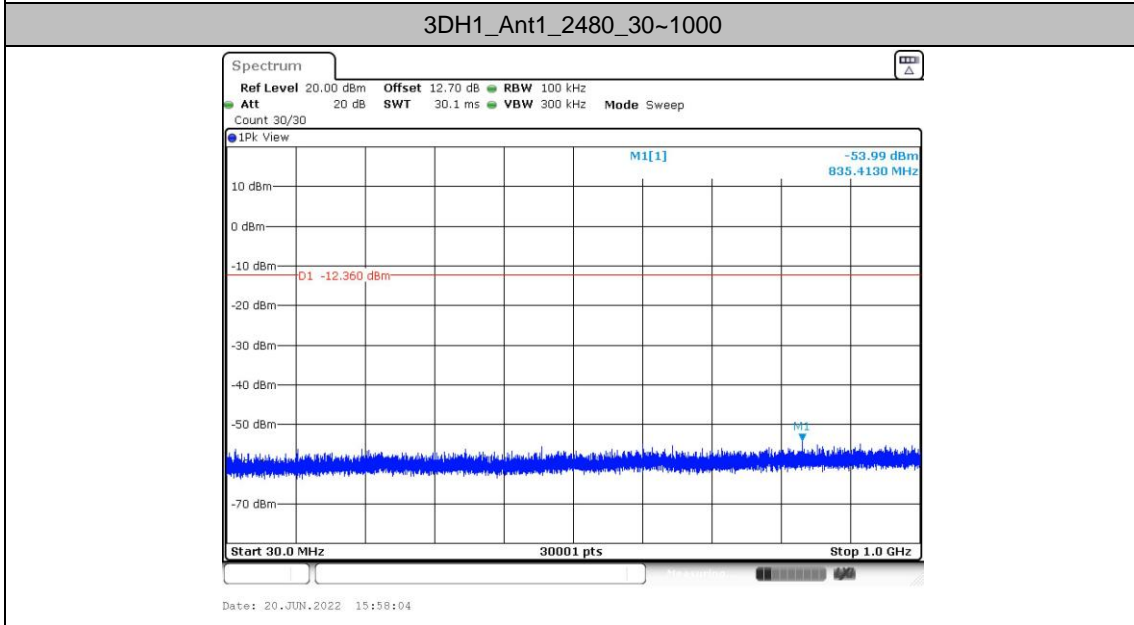
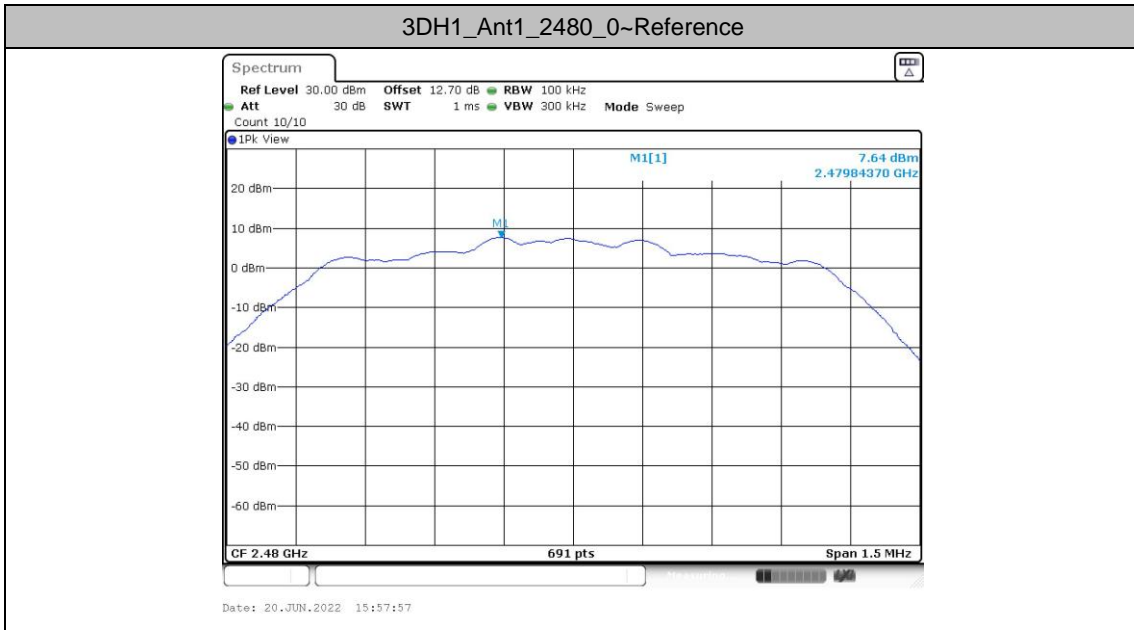


Date: 20 JUN. 2022 16:39:19

3DH1\_Ant2\_2441\_1000~26500

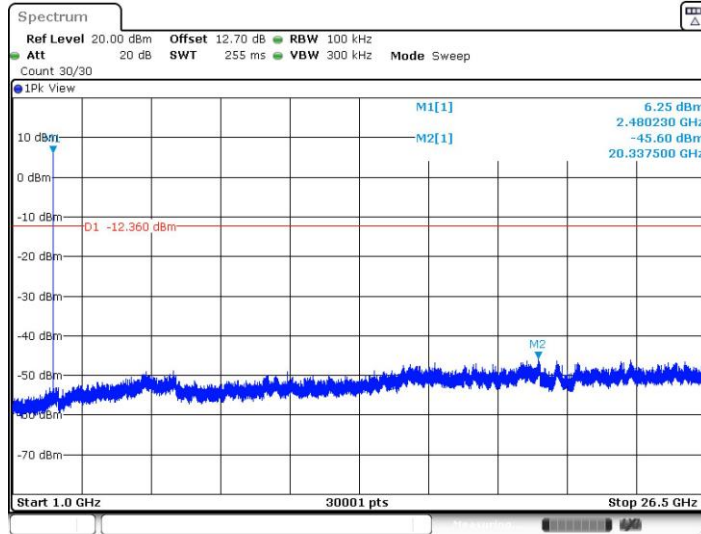


Date: 20 JUN. 2022 16:39:56



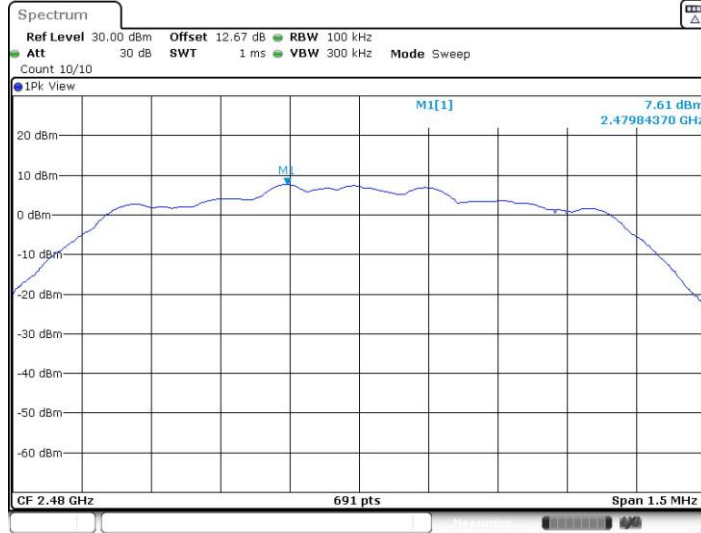


3DH1\_Ant1\_2480\_1000~26500



Date: 20.JUN.2022 15:58:41

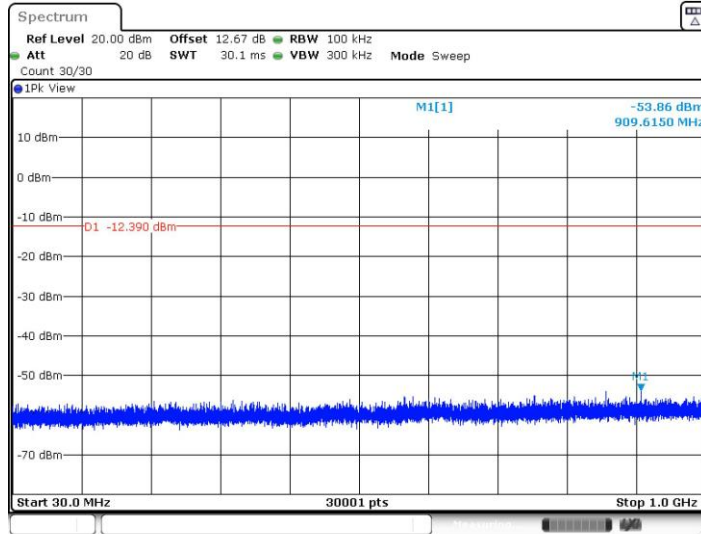
3DH1\_Ant2\_2480\_0~Reference



Date: 20.JUN.2022 16:40:43

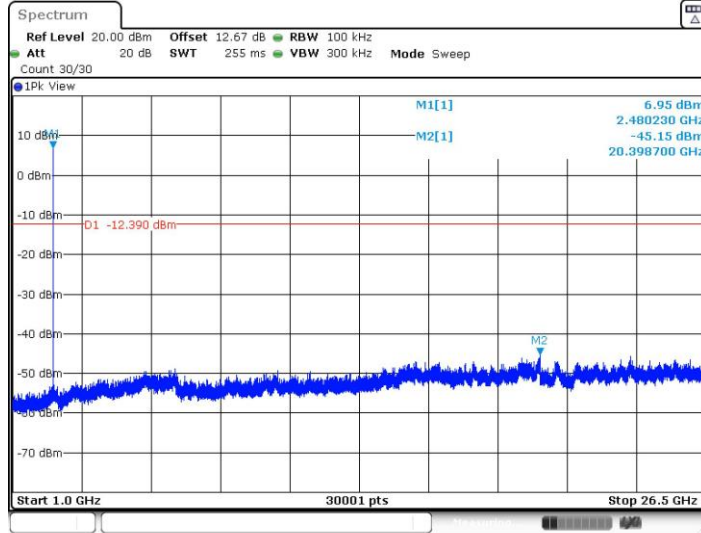


3DH1\_Ant2\_2480\_30~1000



Date: 20 JUN.2022 16:40:49

3DH1\_Ant2\_2480\_1000~26500



Date: 20 JUN.2022 16:41:26



### Maximum Output Power

#### Dwell Time

Ant	Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Ant1	Nomal	79	106.67	2.88	0.31	0.4	Pass
	AFH	20	53.33	2.88	0.15	0.4	Pass
Ant2	Nomal	79	106.67	2.90	0.31	0.4	Pass
	AFH	20	53.33	2.90	0.15	0.4	Pass

#### Peak Power

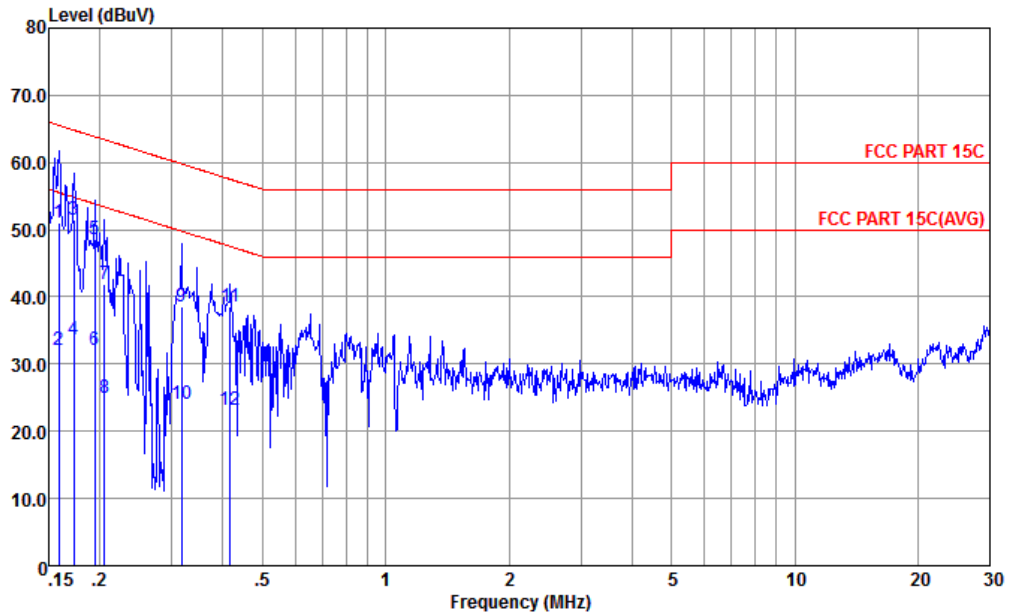
DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	9.57	20.97	Pass
	39	1	<b>11.35</b>	20.97	Pass
	78	1	9.84	20.97	Pass
2DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	10.71	20.97	Pass
	39	1	<b>12.84</b>	20.97	Pass
	78	1	11.24	20.97	Pass
3DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	11.15	20.97	Pass
	39	1	<b>13.25</b>	20.97	Pass
	78	1	11.61	20.97	Pass

DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	2	<b>10.90</b>	20.97	Pass
	39	2	10.61	20.97	Pass
	78	2	9.54	20.97	Pass
2DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	2	<b>12.43</b>	20.97	Pass
	39	2	11.91	20.97	Pass
	78	2	10.83	20.97	Pass
3DH	CH.	ANT	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	2	<b>12.91</b>	20.97	Pass
	39	2	11.73	20.97	Pass
	78	2	11.25	20.97	Pass



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhao	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

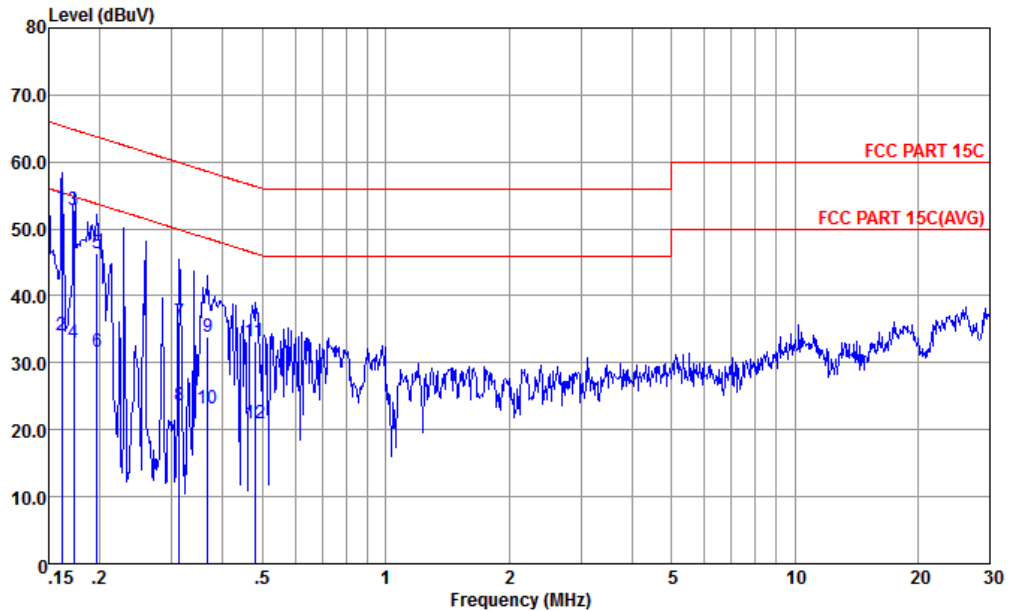


Site : CO01-KS  
 Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.159	51.08	-14.44	65.52	40.60	0.02	10.46	QP
2	0.159	32.08	-23.44	55.52	21.60	0.02	10.46	Average
3 *	0.173	51.55	-13.26	64.81	41.10	0.03	10.42	QP
4	0.173	33.75	-21.06	54.81	23.30	0.03	10.42	Average
5	0.194	48.61	-15.23	63.84	38.20	0.04	10.37	QP
6	0.194	32.01	-21.83	53.84	21.60	0.04	10.37	Average
7	0.205	41.90	-21.50	63.40	31.50	0.04	10.36	QP
8	0.205	25.00	-28.40	53.40	14.60	0.04	10.36	Average
9	0.317	38.57	-21.23	59.80	28.20	0.07	10.30	QP
10	0.317	24.00	-25.80	49.80	13.63	0.07	10.30	Average
11	0.417	38.55	-18.96	57.51	28.20	0.09	10.26	QP
12	0.417	23.15	-24.36	47.51	12.80	0.09	10.26	Average



Test Engineer :	Amos Zhao	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.162	53.36	-12.02	65.38	42.80	0.11	10.45	QP
2	0.162	34.16	-21.22	55.38	23.60	0.11	10.45	Average
3	0.173	52.73	-12.08	64.81	42.20	0.11	10.42	QP
4	0.173	33.03	-21.78	54.81	22.50	0.11	10.42	Average
5	0.197	46.27	-17.49	63.76	35.80	0.10	10.37	QP
6	0.197	31.57	-22.19	53.76	21.10	0.10	10.37	Average
7	0.313	36.00	-23.88	59.88	25.60	0.10	10.30	QP
8	0.313	23.70	-26.18	49.88	13.30	0.10	10.30	Average
9	0.367	33.98	-24.58	58.56	23.60	0.10	10.28	QP
10	0.367	23.18	-25.38	48.56	12.80	0.10	10.28	Average
11	0.479	33.15	-23.21	56.36	22.80	0.11	10.24	QP
12	0.479	20.95	-25.41	46.36	10.60	0.11	10.24	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT---ANT 4 (Band Edge @ 3m)

BT	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
BT CH00 2402MHz		2359.53	49.53	-24.47	74	46.51	32.83	7.07	36.88	165	360	P	H
	*	2359.53	24.74	-29.26	54	-	-	-	-	-	-	A	H
		2402	103.57	-	-	100.42	32.88	7.13	36.86	165	360	P	H
		2402	78.78	-	-	-	-	-	-	-	-	A	H
		2379.16	49.65	-24.35	74	46.56	32.86	7.1	36.87	100	68	P	V
	*	2379.16	24.86	-29.14	54	-	-	-	-	-	-	A	V
		2402	107.67	-	-	104.52	32.88	7.13	36.86	100	68	P	V
		2402	82.88	-	-	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		2483.5	50.40	-23.60	74	46.99	32.98	7.25	36.82	130	0	P	H
	*	2483.5	25.61	-28.39	54	-	-	-	-	-	-	A	H
		2480	103.42	-	-	100.01	32.98	7.25	36.82	130	0	P	H
		2480	78.63	-	-	-	-	-	-	-	-	A	H
		2483.86	57.66	-16.34	74	54.25	32.98	7.25	36.82	110	112	P	V
	*	2483.86	32.87	-21.13	54	-	-	-	-	-	-	A	V
		2480	103.08	-	-	99.67	32.98	7.25	36.82	110	112	P	V
		2480	78.29	-	-	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
BT---ANT 4 (Harmonic @ 3m)

Table with 14 columns: BT, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for BT CH 00 (2402MHz), BT CH 39 (2441MHz), and BT CH 78 (2480MHz).



2.4GHz 2400~2483.5MHz

BT---ANT 6 (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		( MHz )	( dBμV/m )	( dB )	Limit	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
					Line	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
BT CH00 2402MHz		2349.26	50.21	-23.79	74	47.25	32.81	7.04	36.89	163	6	P	H
		2349.26	25.42	-28.58	54	-	-	-	-	-	-	A	H
		2402	103.98	-	-	100.83	32.88	7.13	36.86	163	6	P	H
		2402	79.19	-	-	-	-	-	-	-	-	A	H
		2341.59	50.22	-23.78	74	47.26	32.81	7.04	36.89	100	103	P	V
		2341.59	25.43	-28.57	54	-	-	-	-	-	-	A	V
		2402	107.35	-	-	104.2	32.88	7.13	36.86	100	103	P	V
		2402	82.56	-	-	-	-	-	-	-	-	A	V
BT CH 78 2480MHz		2490.94	50.49	-23.51	74	47.05	33	7.25	36.81	295	63	P	H
	*	2490.94	25.70	-28.30	54	-	-	-	-	-	-	A	H
		2480	103.27	-	-	99.86	32.98	7.25	36.82	295	63	P	H
		2480	78.48	-	-	-	-	-	-	-	-	A	H
		2489.8	51.47	-22.53	74	48.03	33	7.25	36.81	232	225	P	V
	*	2489.8	26.68	-27.32	54	-	-	-	-	-	-	A	V
		2480	106.92	-	-	103.51	32.98	7.25	36.82	232	225	P	V
		2480	82.13	-	-	-	-	-	-	-	-	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
BT---ANT 6 (Harmonic @ 3m)

Table with 14 columns: BT, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for BT CH 00 (2402MHz), BT CH 39 (2441MHz), and BT CH 78 (2480MHz).



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
2.4GHz BT LF		30	20.26	-19.74	40	26.89	25.36	0.71	32.7	-	-	P	H
		109.54	15.99	-27.51	43.5	30.71	16.58	1.58	32.88	-	-	P	H
		259.89	17.38	-28.62	46	28.05	19.93	2.46	33.06	-	-	P	H
		494.63	23.51	-22.49	46	29.01	23.89	3.4	32.79	-	-	P	H
		703.18	26.94	-19.06	46	29.2	26.47	4.06	32.79	-	-	P	H
		890.39	30.13	-15.87	46	28.94	29.15	4.56	32.52	-	-	P	H
		30	22.06	-17.94	40	28.55	25.5	0.71	32.7	-	-	P	V
		129.91	16.13	-27.37	43.5	29.5	17.74	1.73	32.84	-	-	P	V
		250.19	18.75	-27.25	46	30.03	19.4	2.42	33.1	-	-	P	V
		447.1	21.78	-24.22	46	27.71	23.55	3.23	32.71	-	-	P	V
		607.15	25.8	-20.2	46	29.02	25.55	3.76	32.53	-	-	P	V
		833.16	28.53	-17.47	46	29.59	27.1	4.41	32.57	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

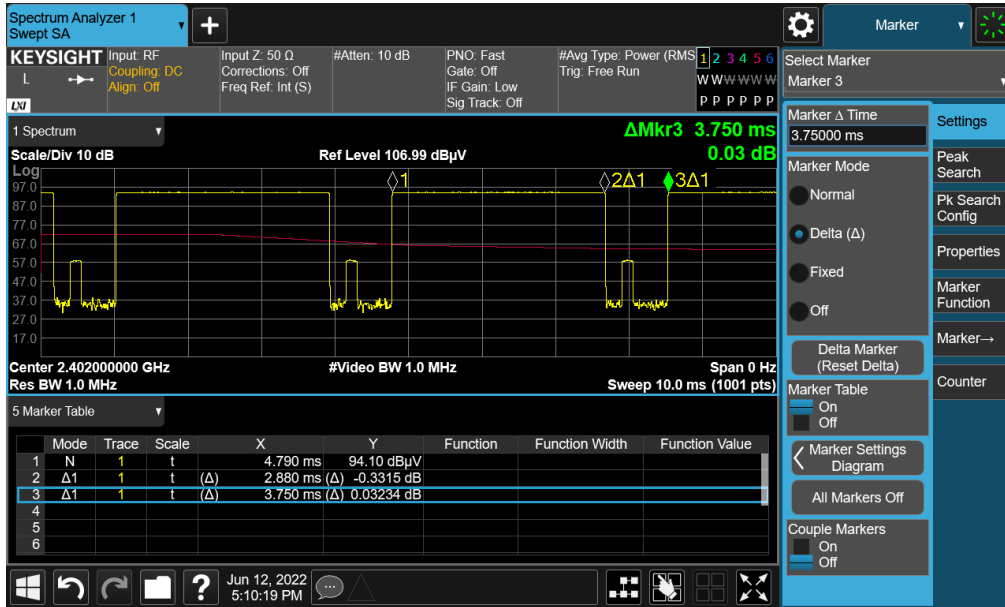
**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

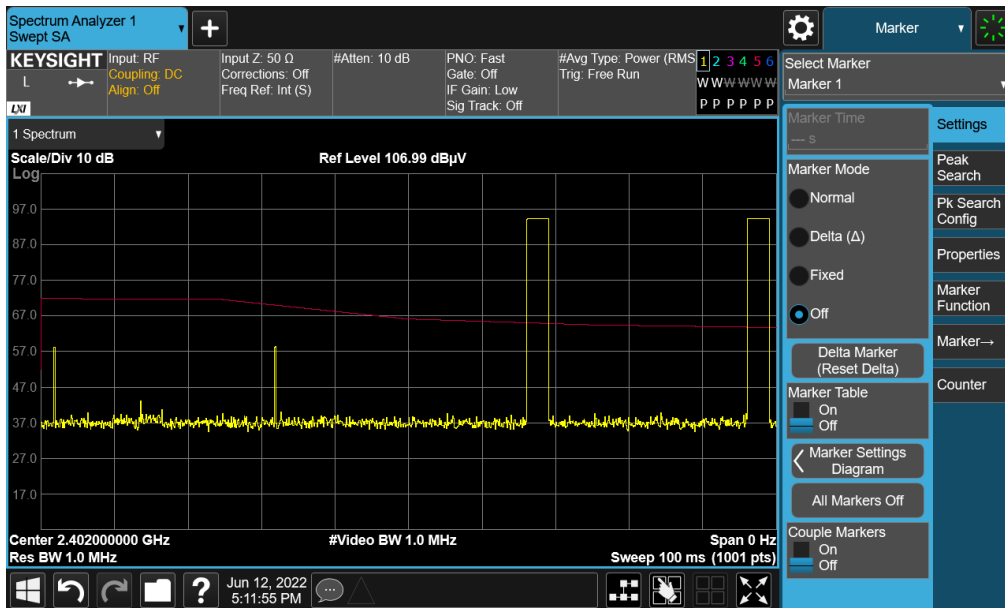
**Both peak and average measured complies with the limit line, so test result is “PASS”.**

## Appendix D. Duty Cycle Plots

### 3DH5 on time (One Pulse) Plot on Channel 39



### 3DH5 on time (Count Pulses) Plot on Channel 39



**Note:**

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.