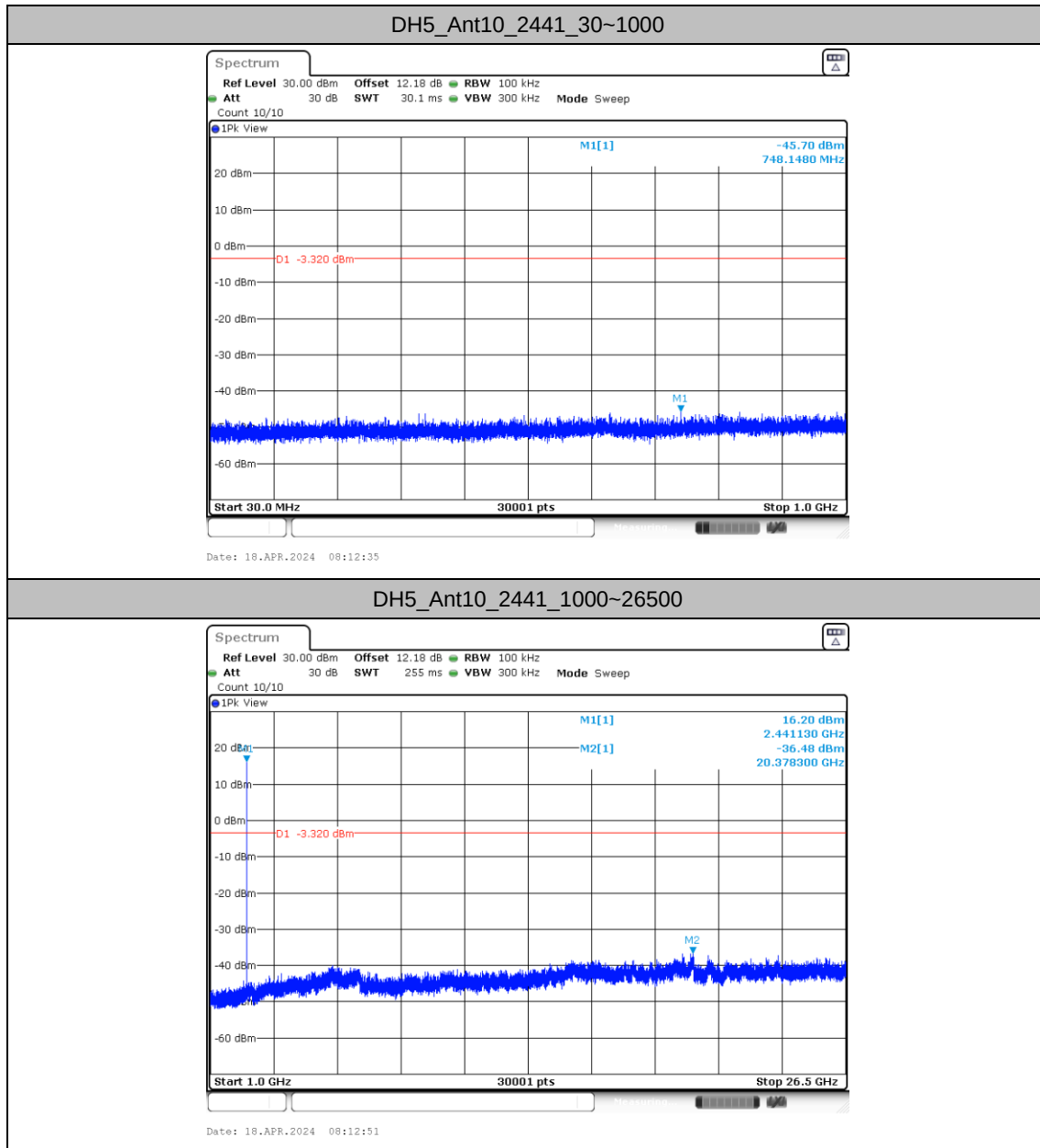
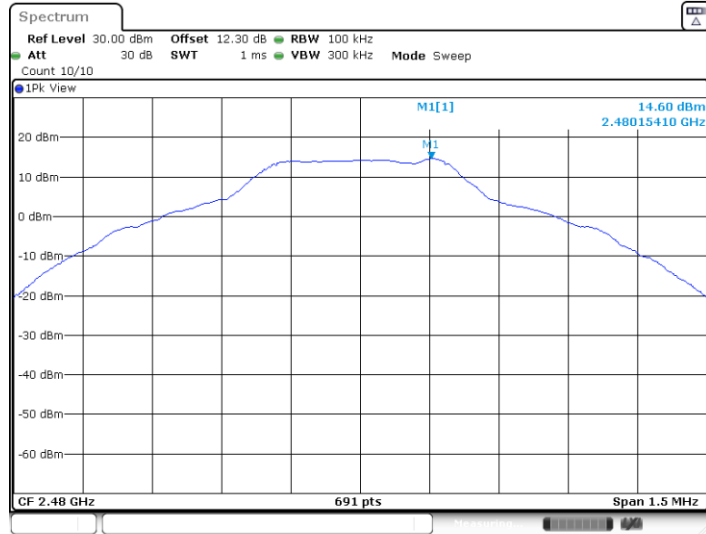




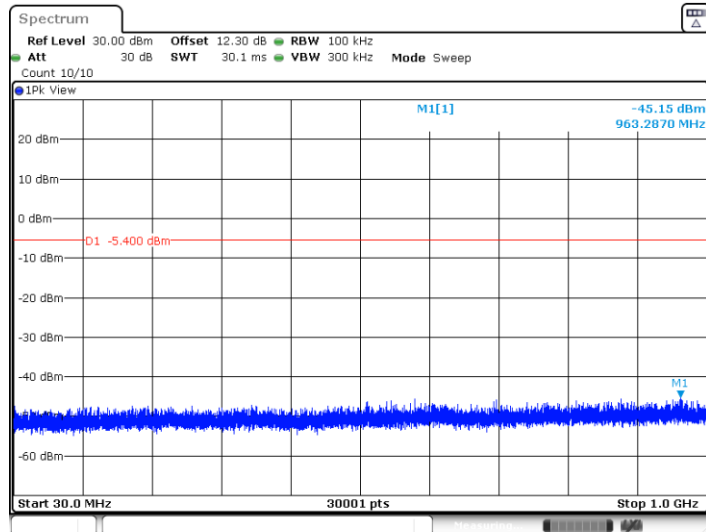


DH5_Ant9_2480_0~Reference

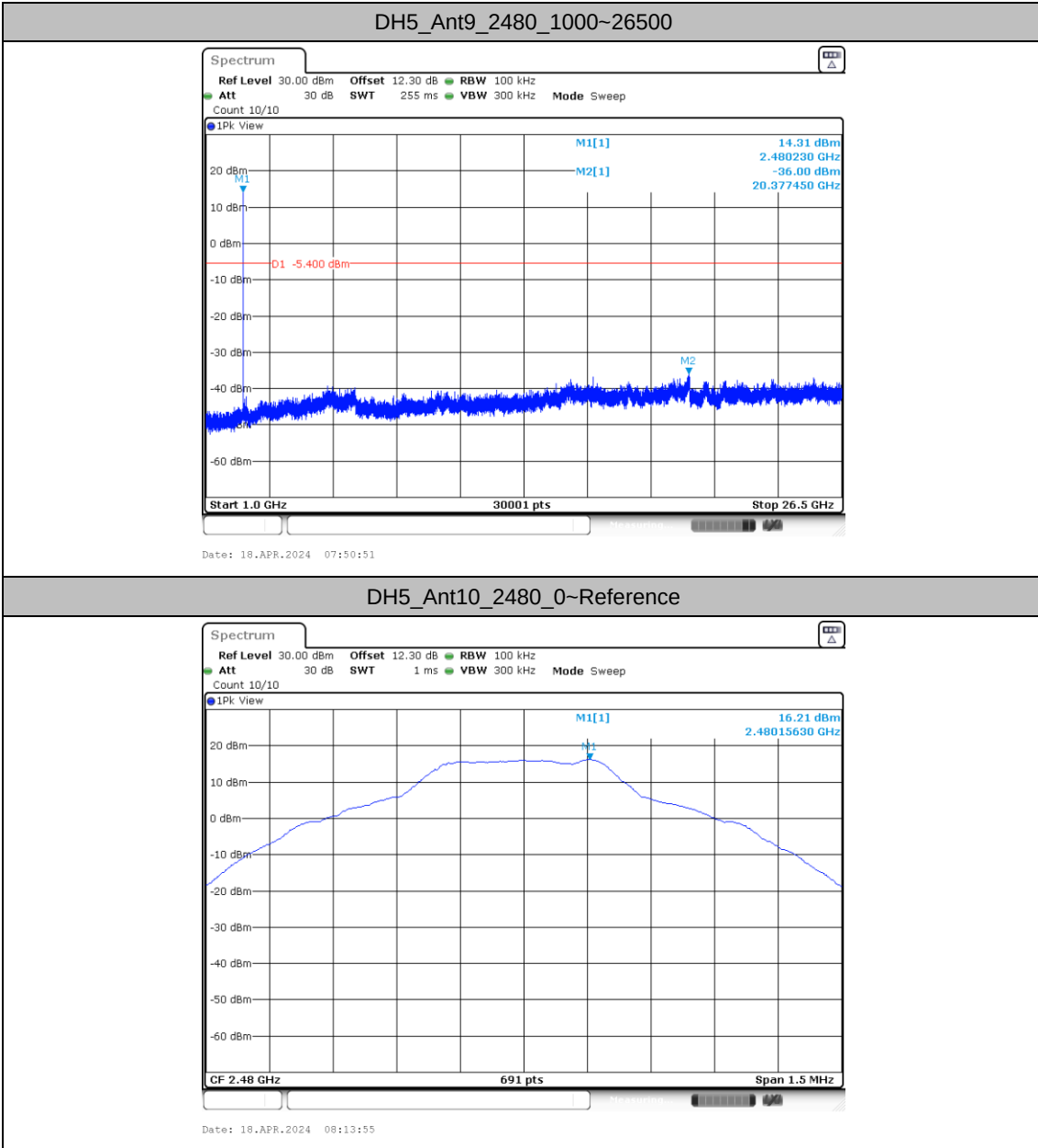


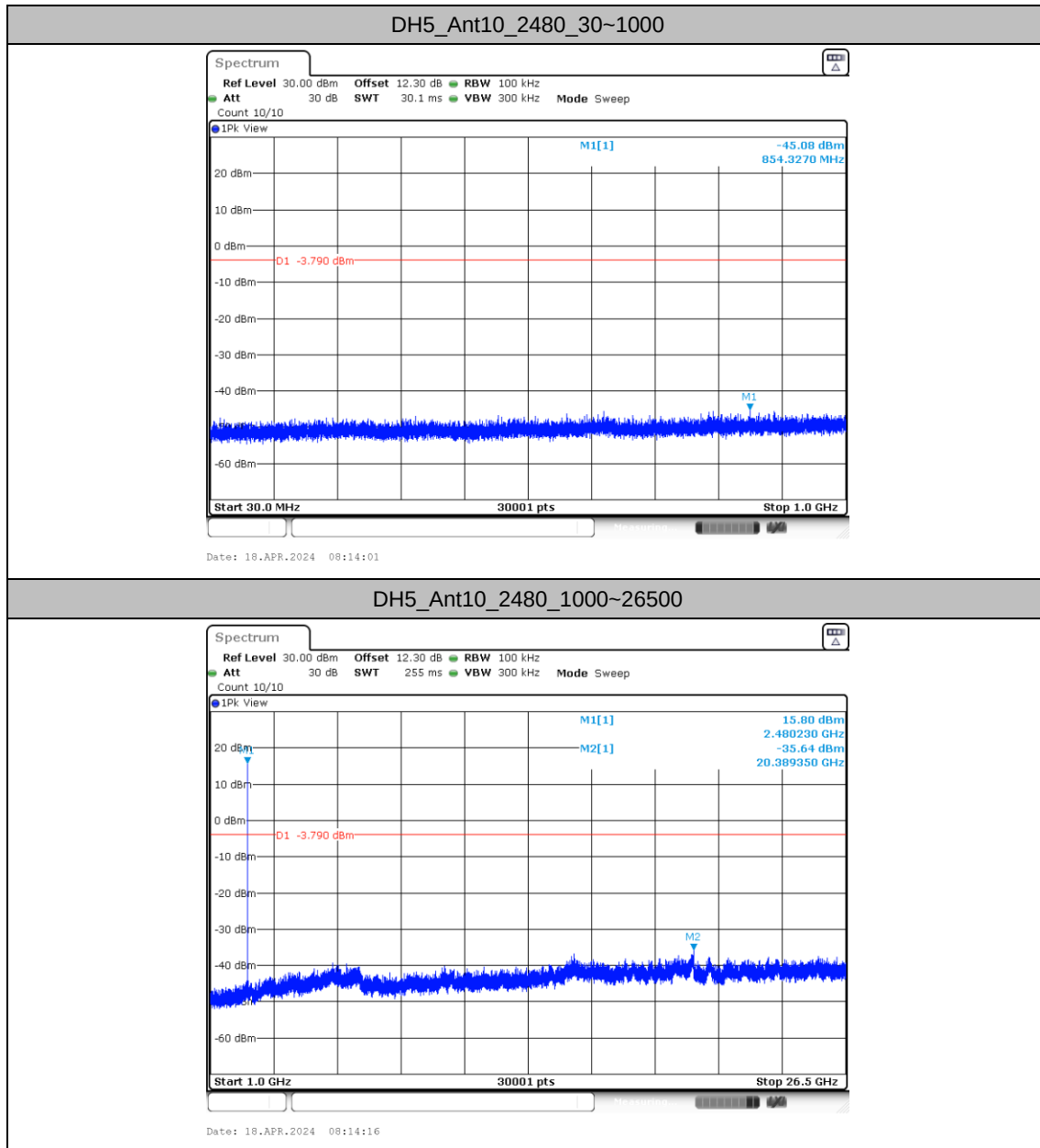
Date: 18.APR.2024 07:50:30

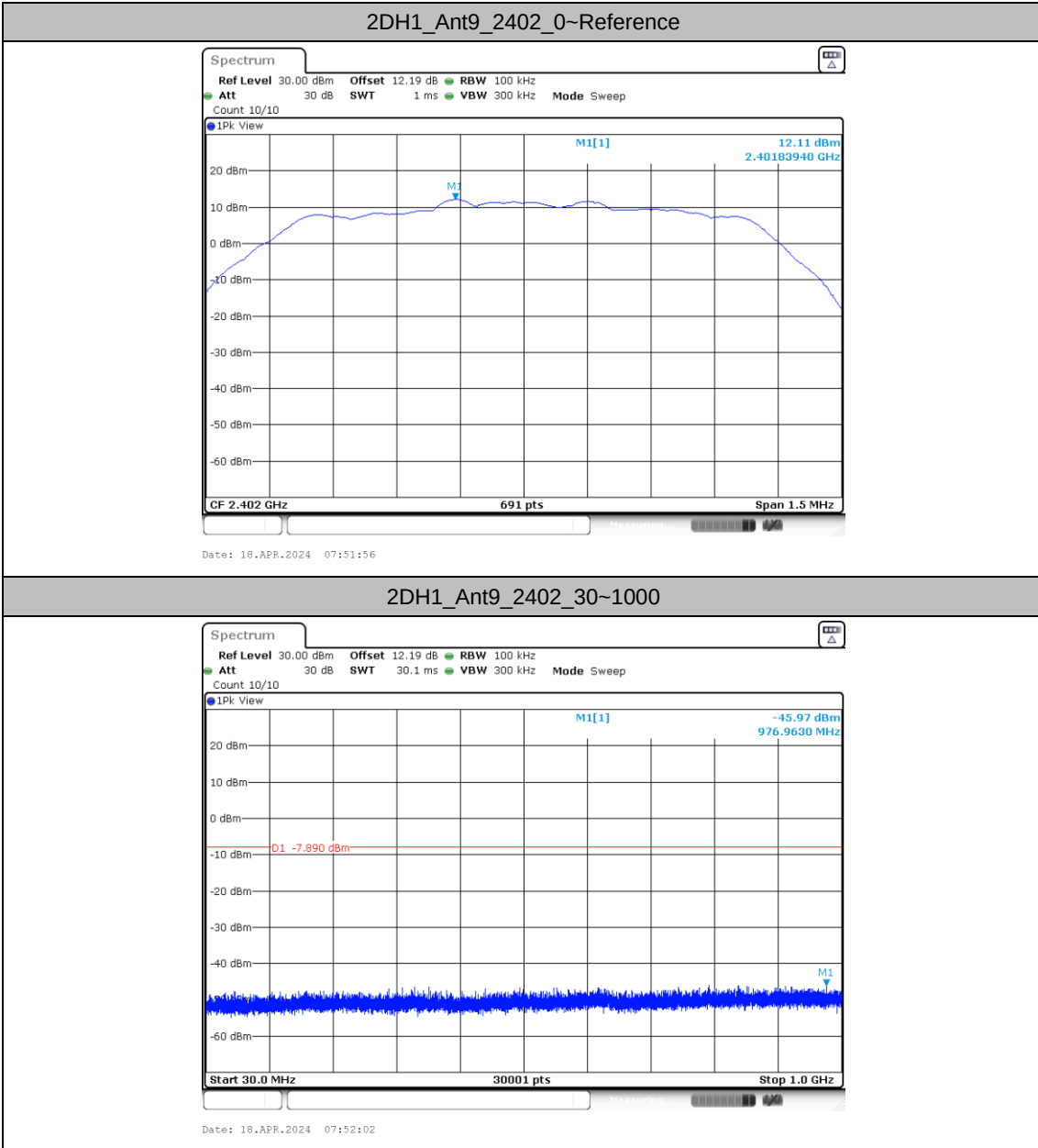
DH5_Ant9_2480_30~1000



Date: 18.APR.2024 07:50:35

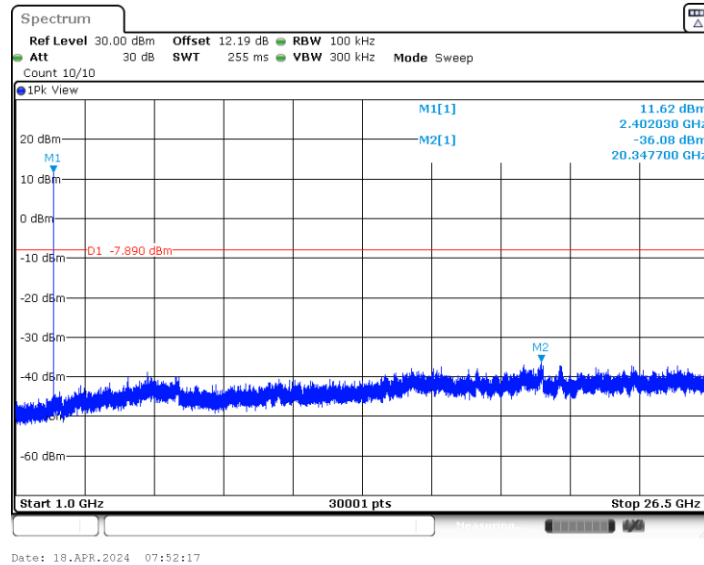




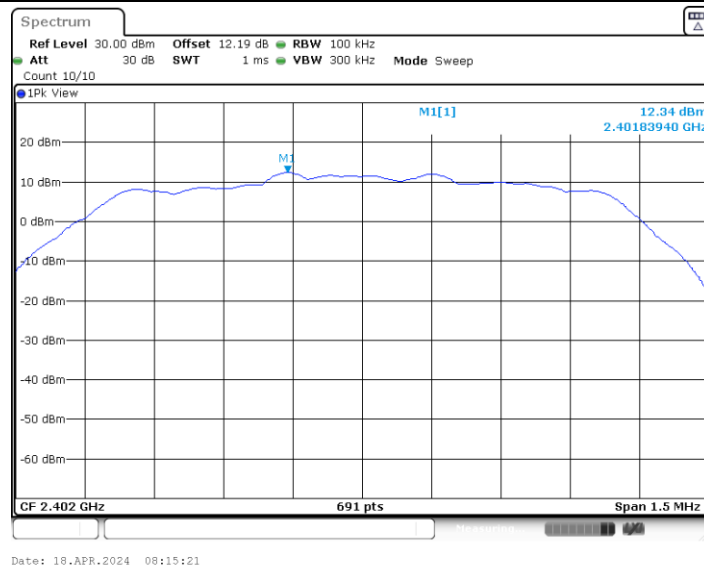




2DH1_Ant9_2402_1000~26500

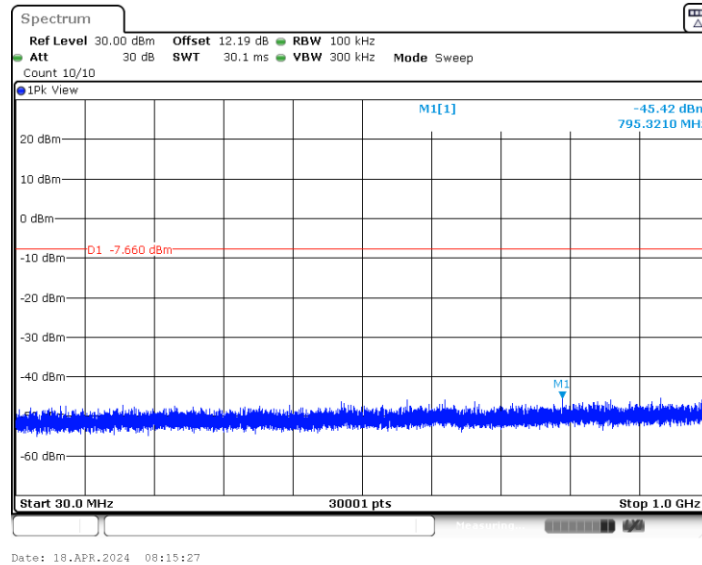


2DH1_Ant10_2402_0~Reference

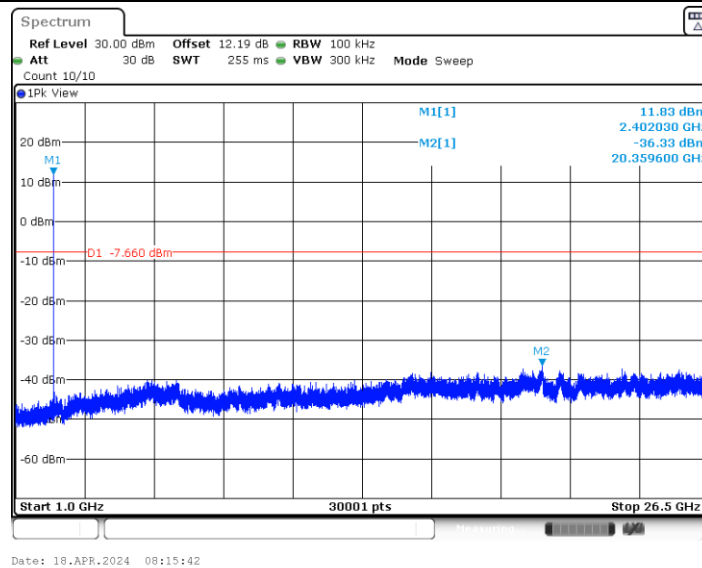




2DH1_Ant10_2402_30~1000

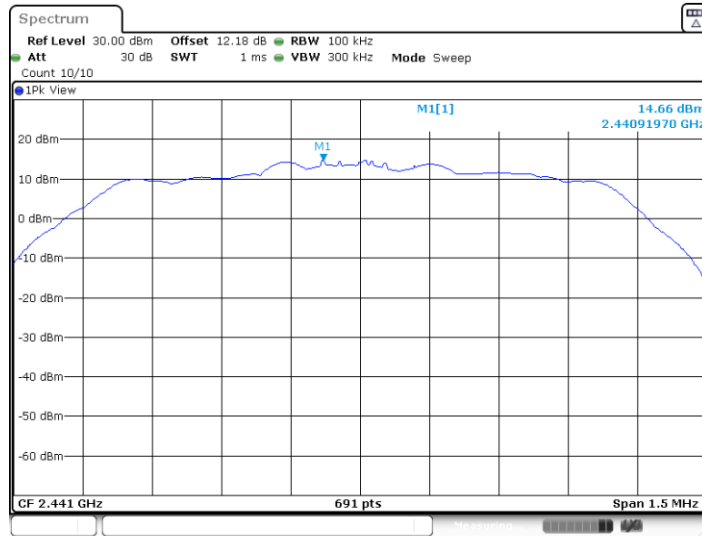


2DH1_Ant10_2402_1000~26500



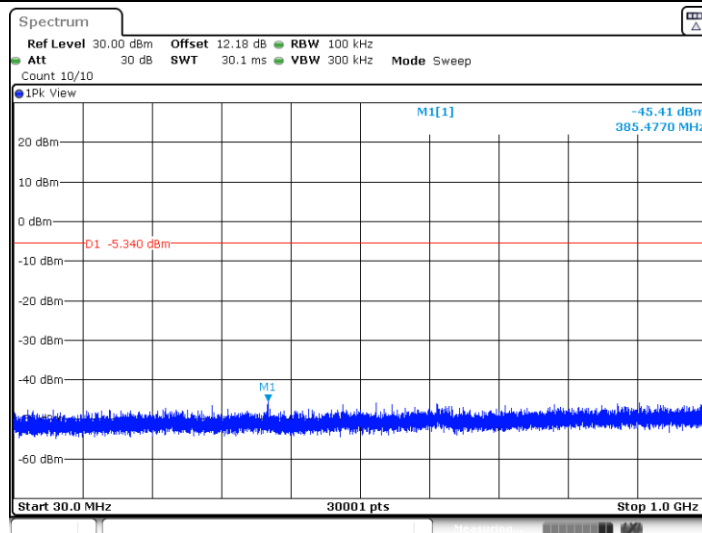


2DH1_Ant9_2441_0~Reference



Date: 18.APR.2024 07:53:04

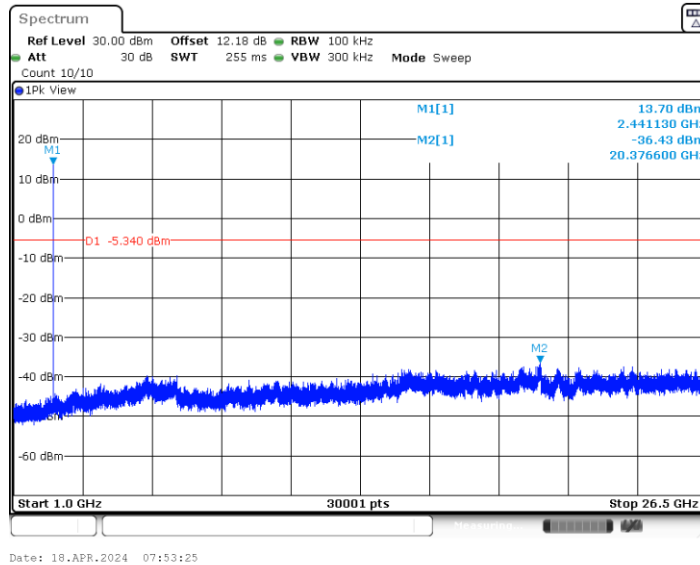
2DH1_Ant9_2441_30~1000



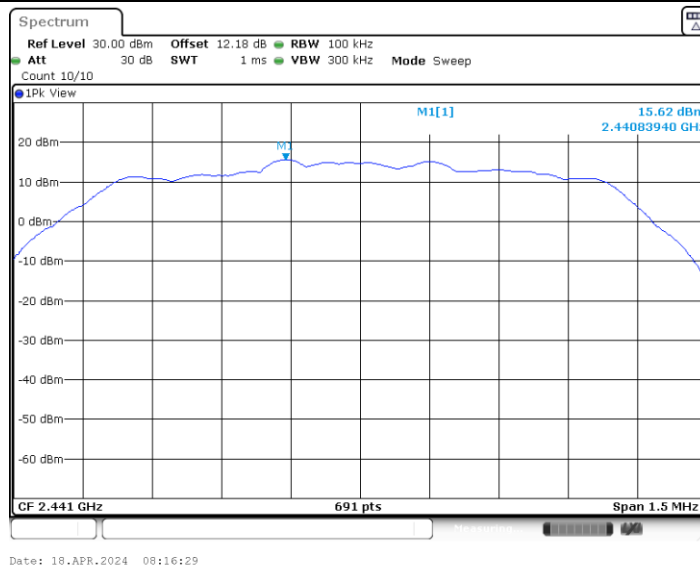
Date: 18.APR.2024 07:53:10



2DH1_Ant9_2441_1000~26500

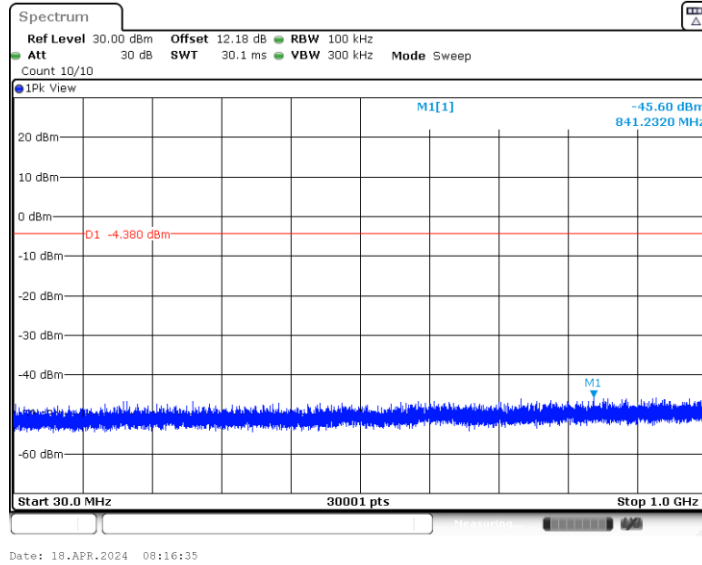


2DH1_Ant10_2441_0~Reference

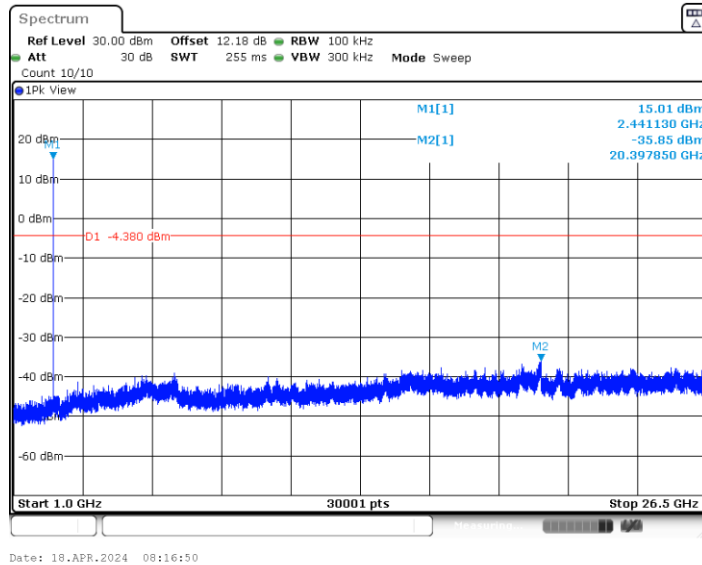




2DH1_Ant10_2441_30~1000

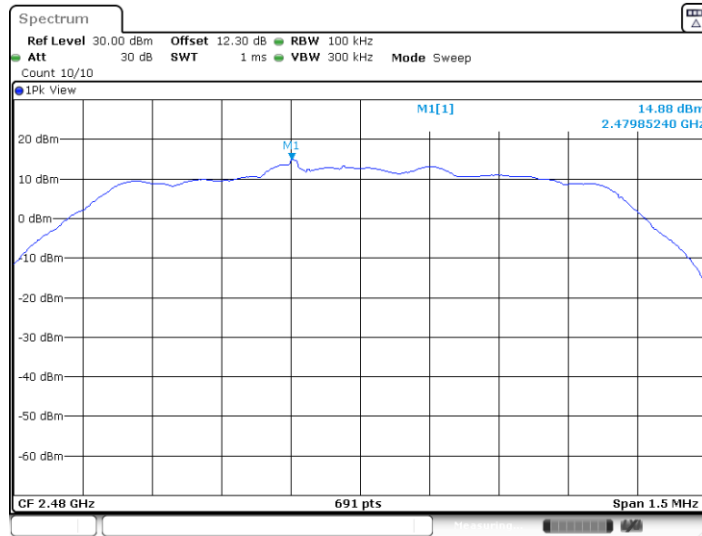


2DH1_Ant10_2441_1000~26500



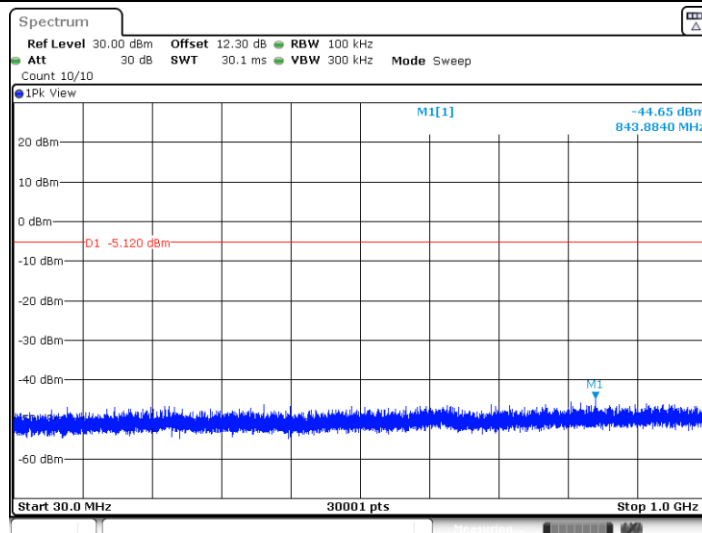


2DH1_Ant9_2480_0~Reference



Date: 18.APR.2024 07:54:30

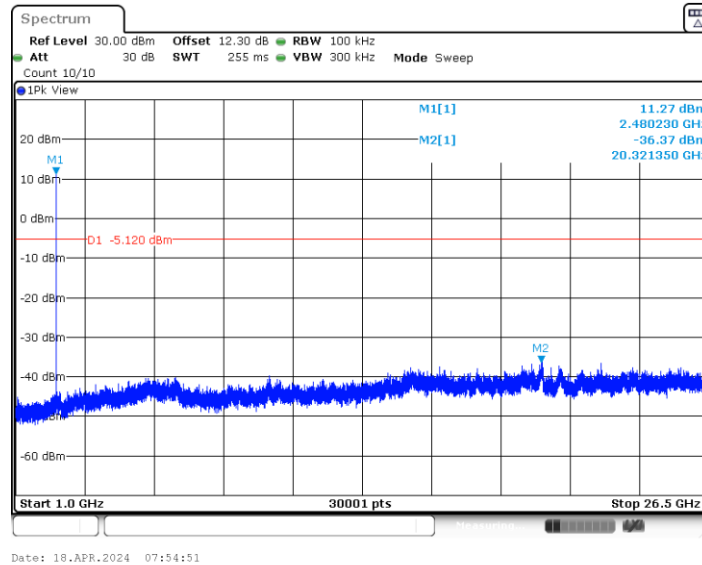
2DH1_Ant9_2480_30~1000



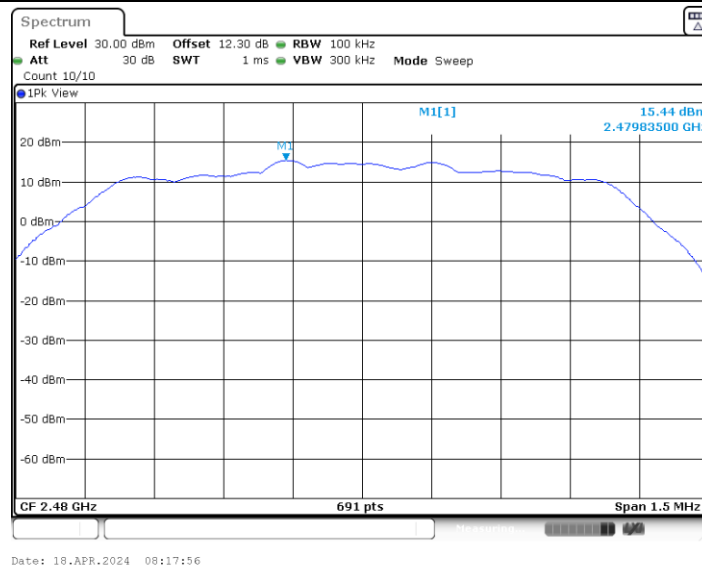
Date: 18.APR.2024 07:54:36



2DH1_Ant9_2480_1000~26500

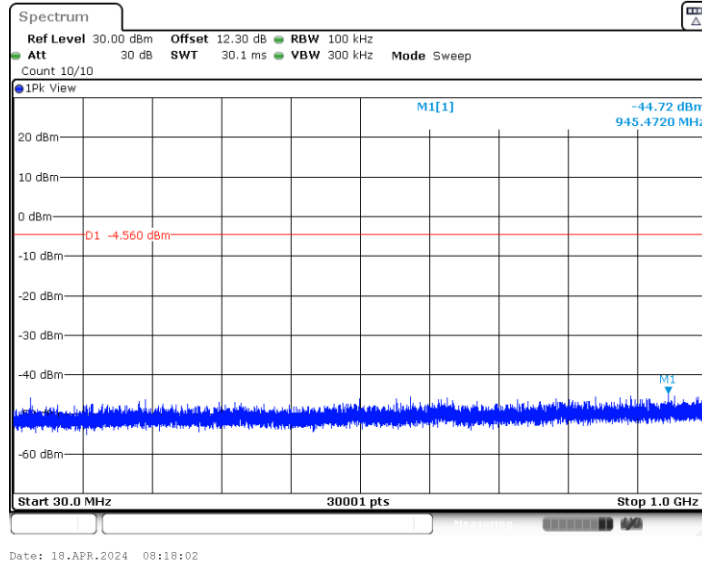


2DH1_Ant10_2480_0~Reference

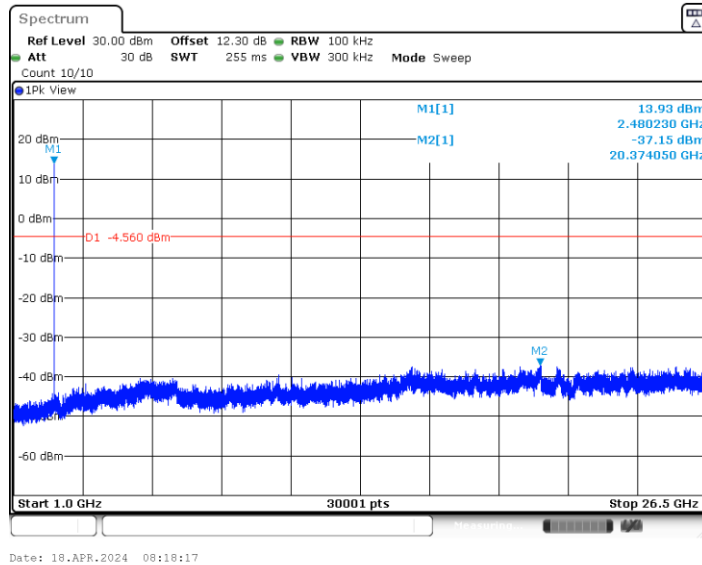


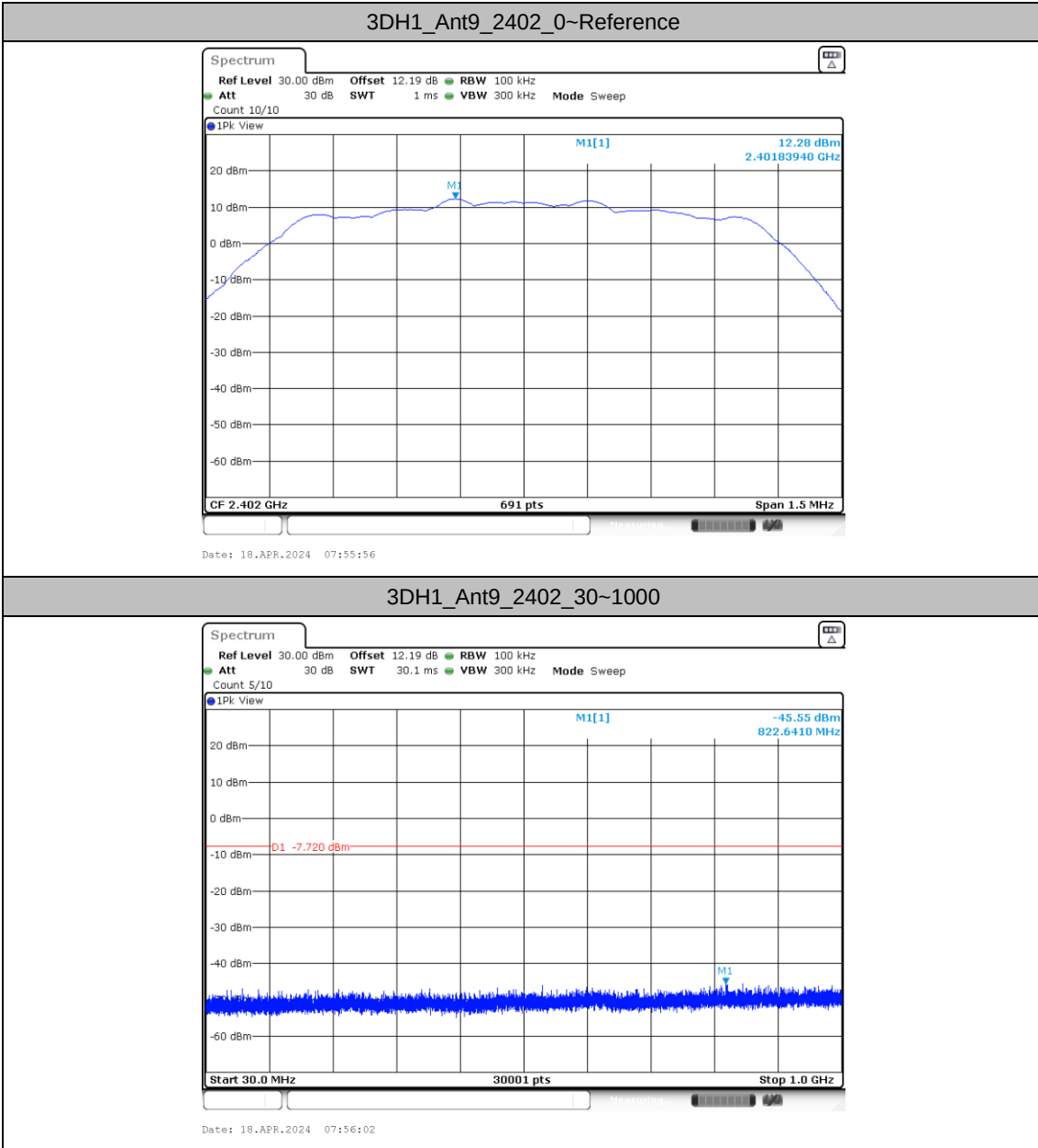


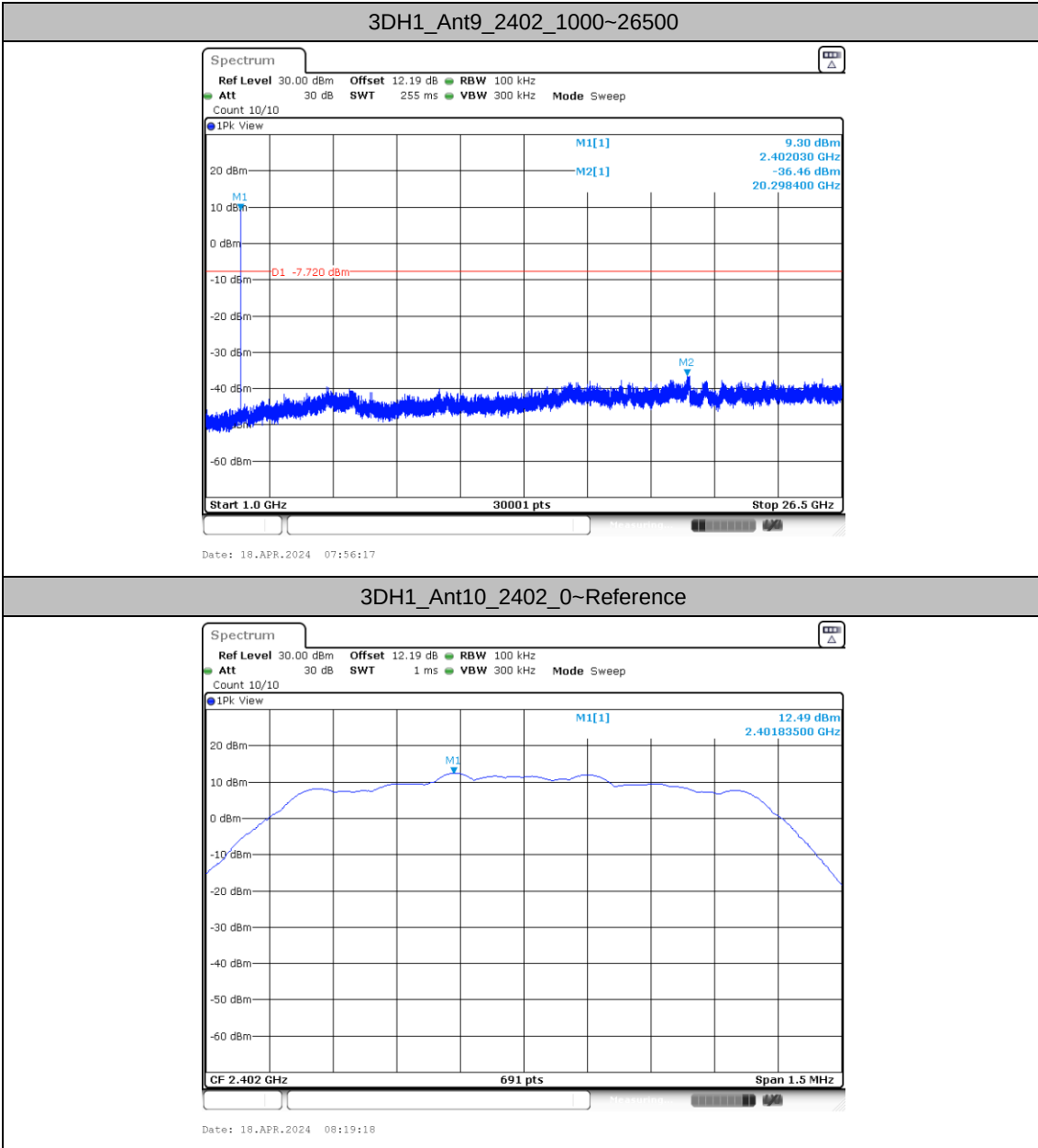
2DH1_Ant10_2480_30~1000



2DH1_Ant10_2480_1000~26500

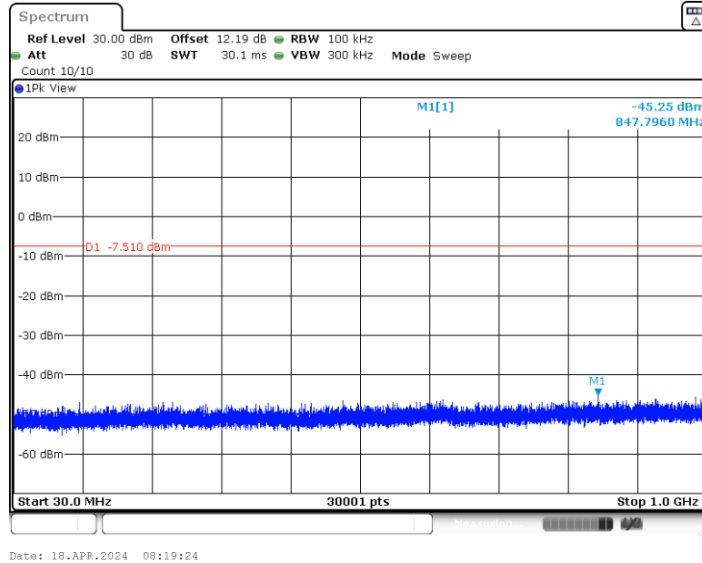




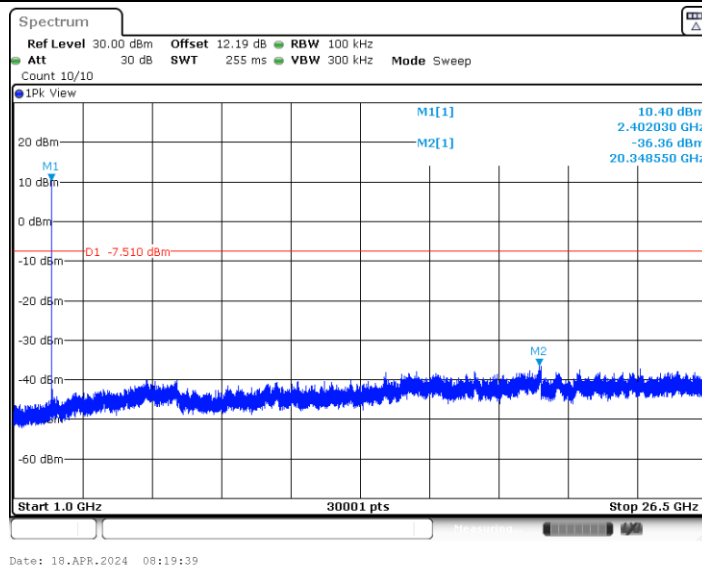




3DH1_Ant10_2402_30~1000

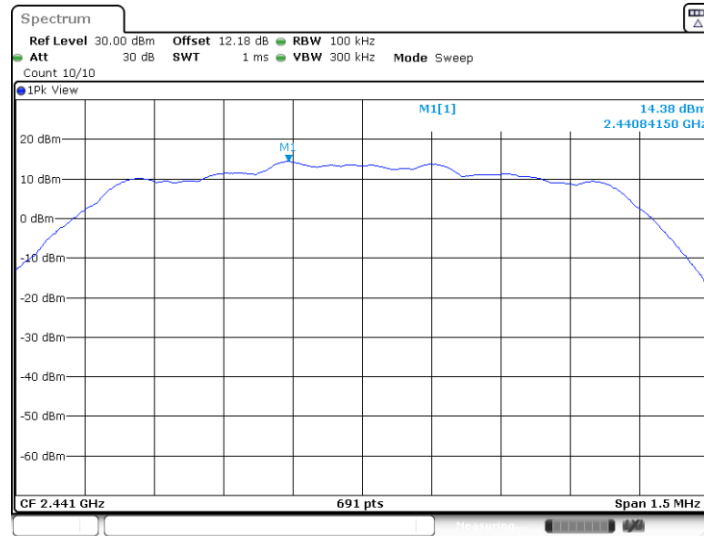


3DH1_Ant10_2402_1000~26500



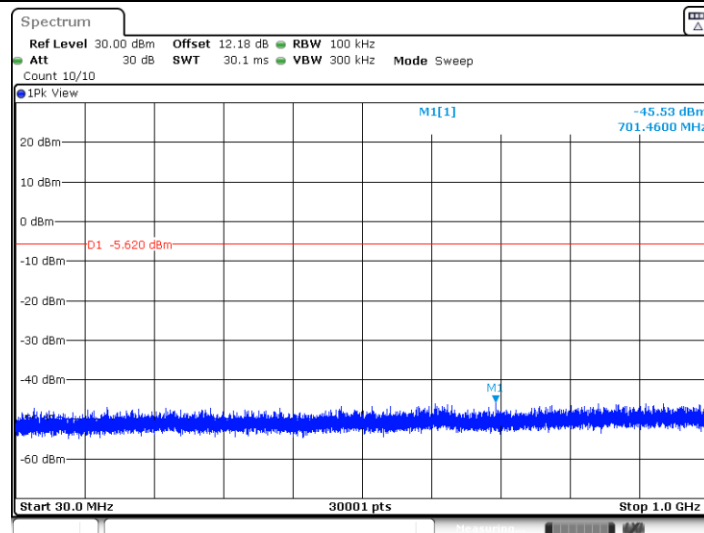


3DH1_Ant9_2441_0~Reference



Date: 18.APR.2024 07:57:02

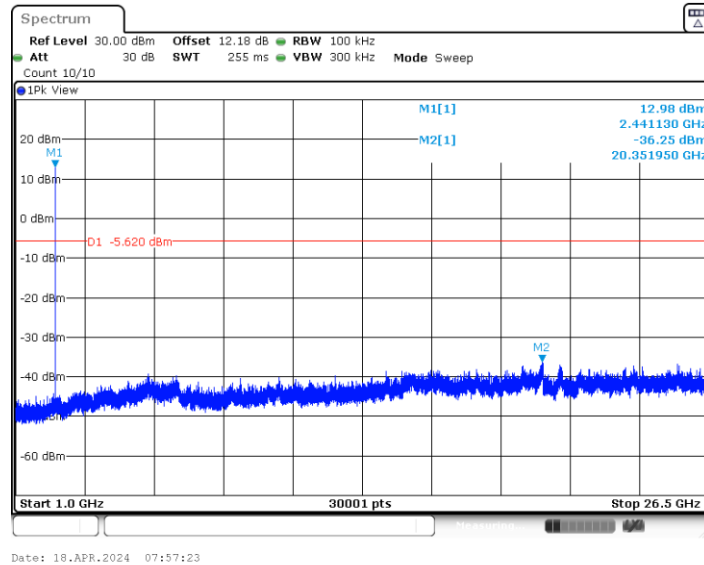
3DH1_Ant9_2441_30~1000



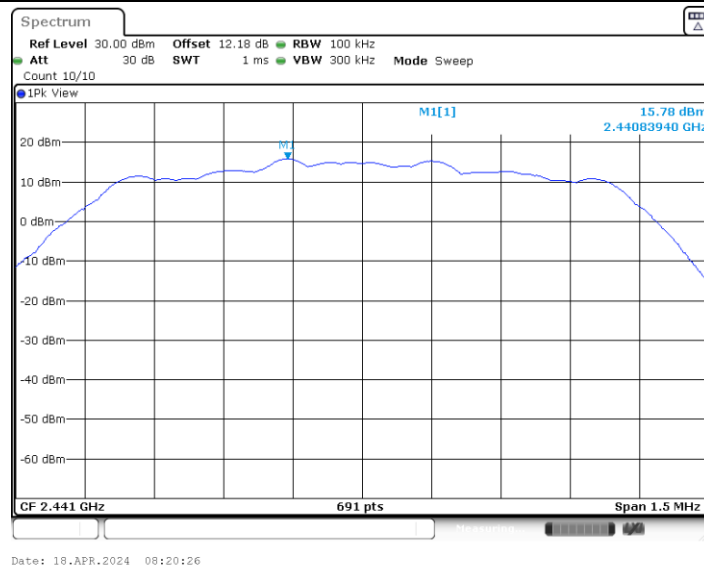
Date: 18.APR.2024 07:57:07



3DH1_Ant9_2441_1000~26500

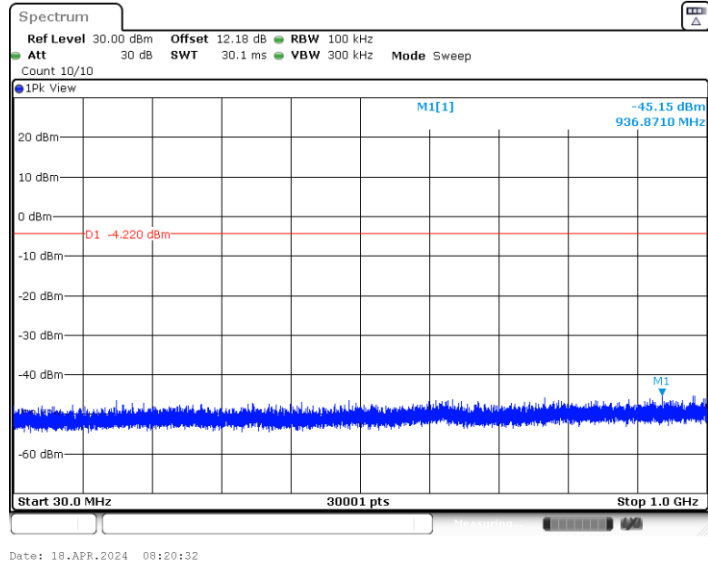


3DH1_Ant10_2441_0~Reference



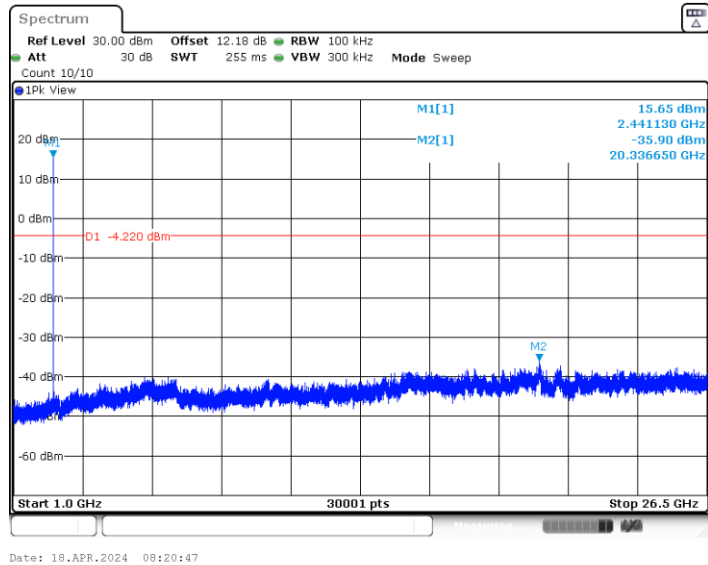


3DH1_Ant10_2441_30~1000



Date: 18.APR.2024 08:20:32

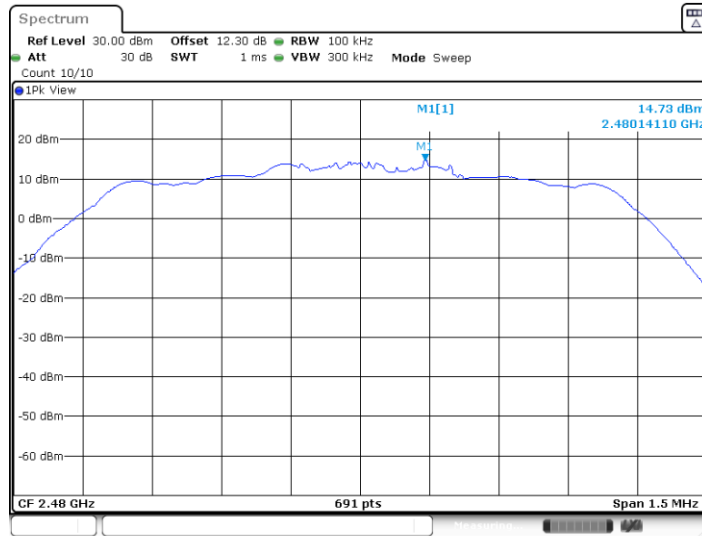
3DH1_Ant10_2441_1000~26500



Date: 18.APR.2024 08:20:47

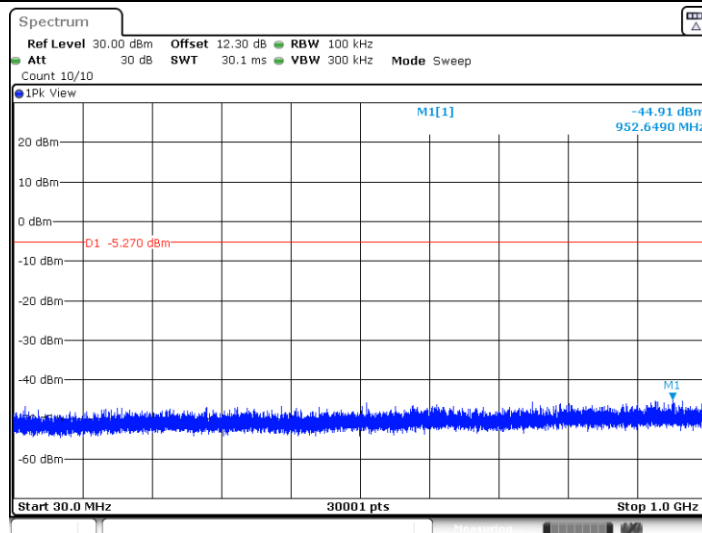


3DH1_Ant9_2480_0~Reference



Date: 18.APR.2024 07:58:28

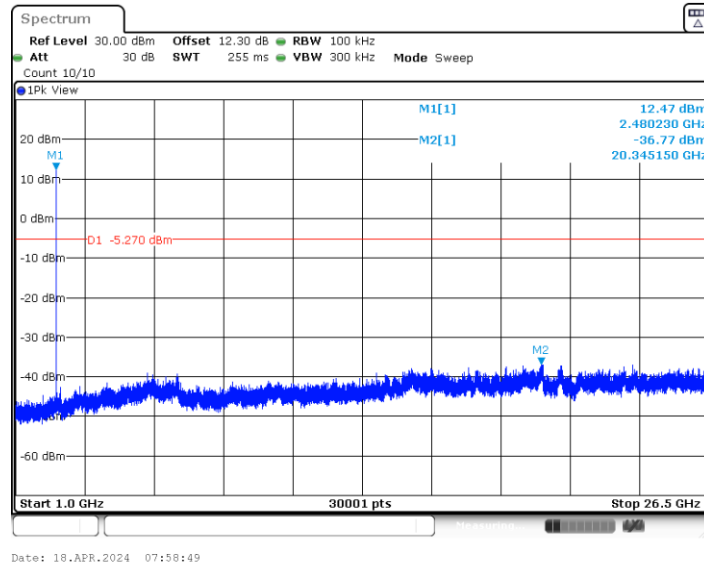
3DH1_Ant9_2480_30~1000



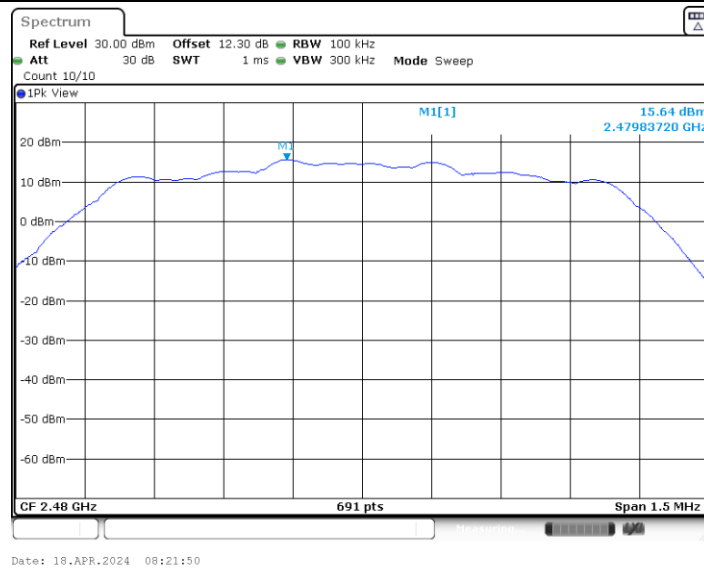
Date: 18.APR.2024 07:58:34

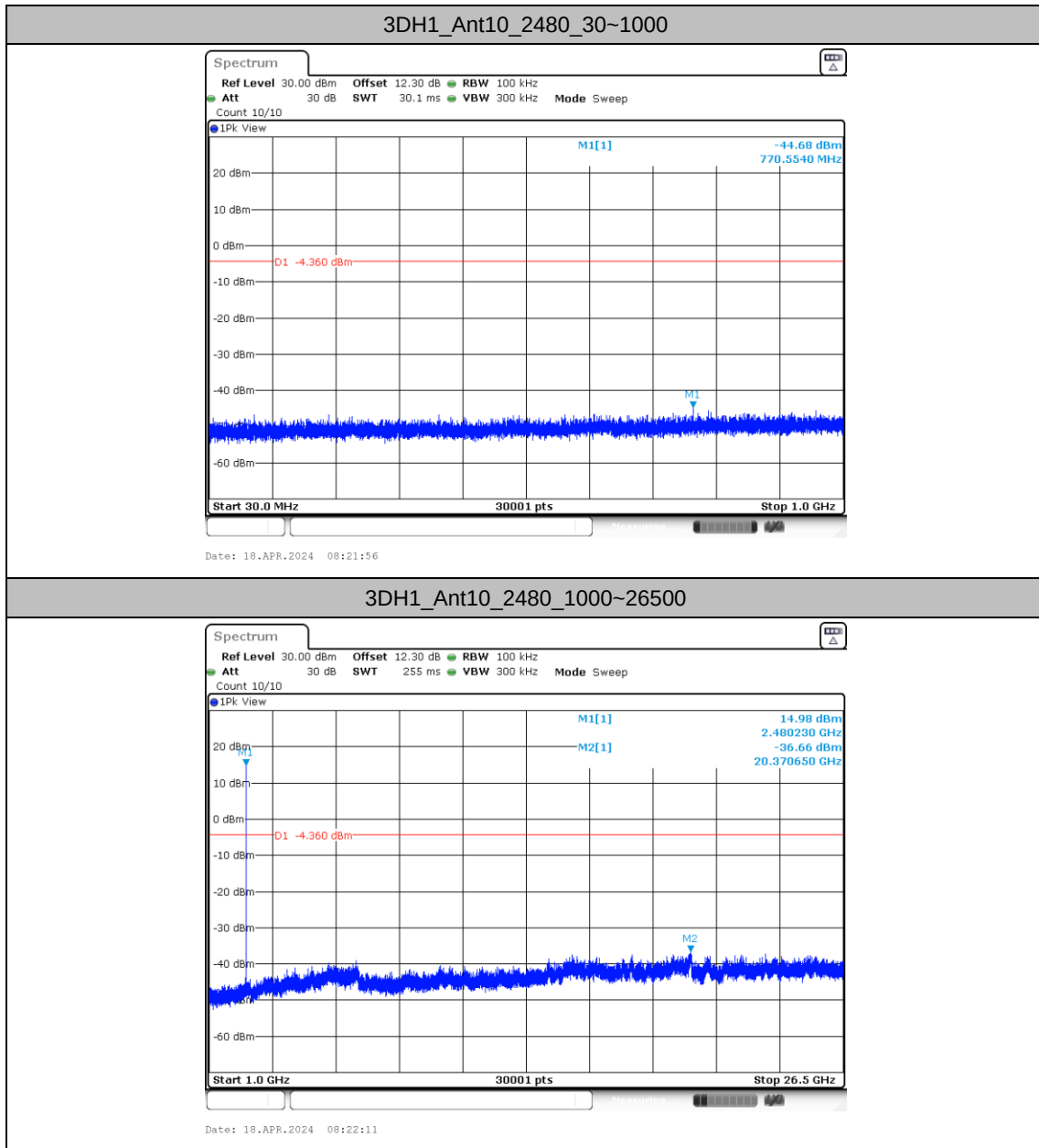


3DH1_Ant9_2480_1000~26500



3DH1_Ant10_2480_0~Reference



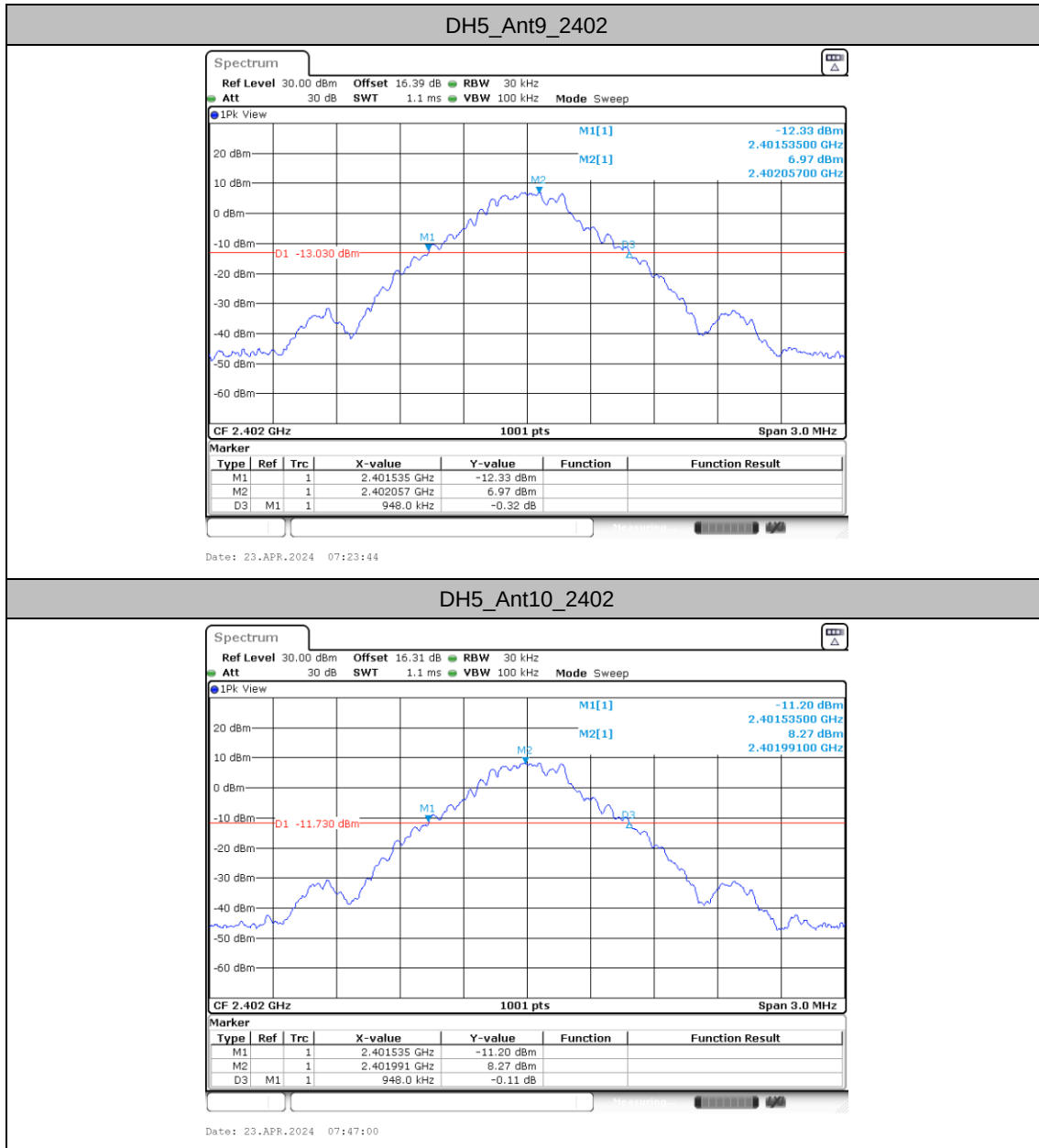


**<Bluetooth BR/EDR Beamforming mode>****20dB Emission Bandwidth****Test Result**

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant9	2402	0.95	2401.54	2402.48	---	---
	Ant10	2402	0.95	2401.54	2402.48	---	---
	Ant9	2441	0.95	2440.54	2441.48	---	---
	Ant10	2441	0.95	2440.54	2441.48	---	---
	Ant9	2480	0.95	2479.53	2480.48	---	---
	Ant10	2480	0.95	2479.53	2480.48	---	---
2DH1	Ant9	2402	1.30	2401.34	2402.64	---	---
	Ant10	2402	1.31	2401.33	2402.64	---	---
	Ant9	2441	1.30	2440.34	2441.64	---	---
	Ant10	2441	1.31	2440.33	2441.64	---	---
	Ant9	2480	1.30	2479.34	2480.64	---	---
	Ant10	2480	1.30	2479.34	2480.64	---	---
3DH1	Ant9	2402	1.27	2401.37	2402.64	---	---
	Ant10	2402	1.27	2401.37	2402.64	---	---
	Ant9	2441	1.27	2440.37	2441.64	---	---
	Ant10	2441	1.27	2440.37	2441.64	---	---
	Ant9	2480	1.27	2479.37	2480.64	---	---
	Ant10	2480	1.27	2479.37	2480.64	---	---

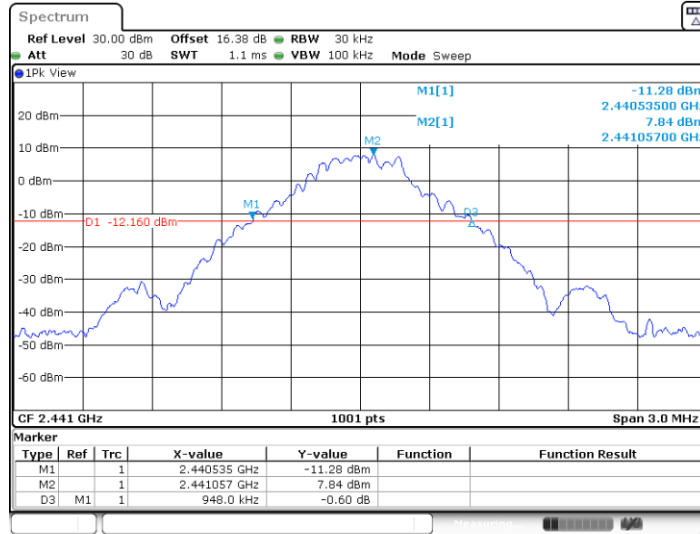


Test Graphs

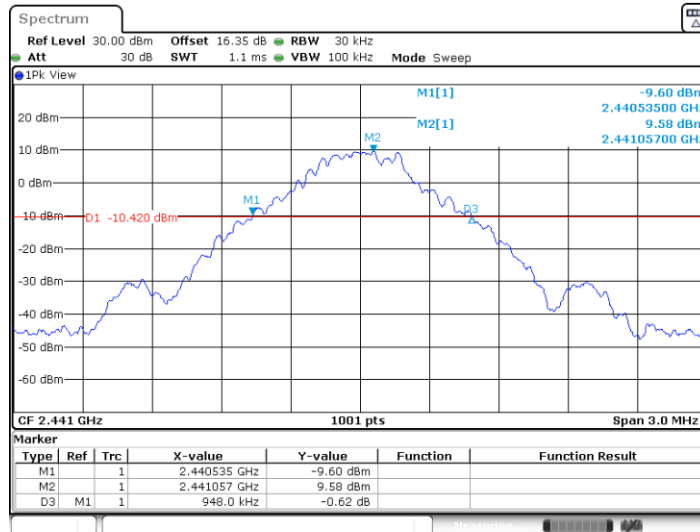




DH5_Ant9_2441

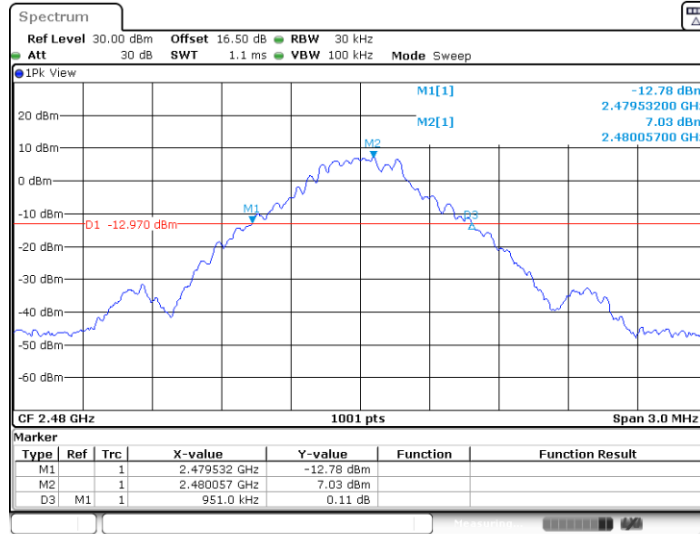


DH5_Ant10_2441



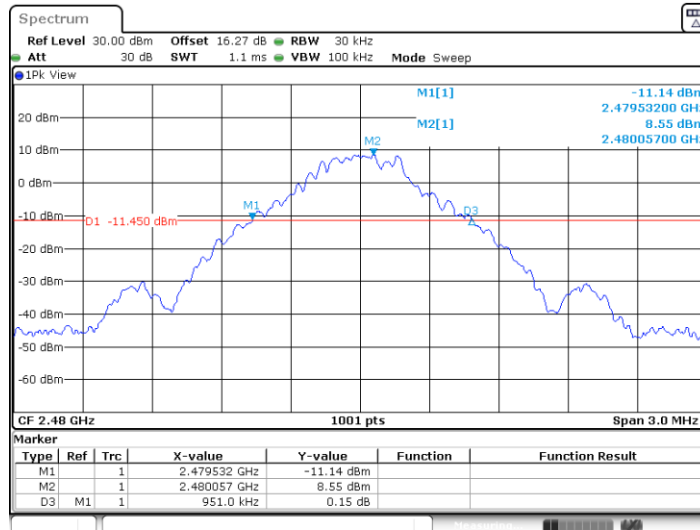


DH5_Ant9_2480



Date: 23.APR.2024 07:25:56

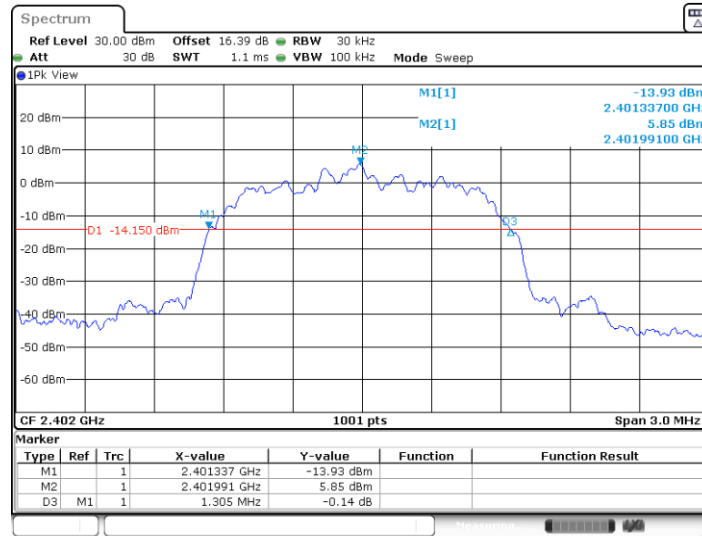
DH5_Ant10_2480



Date: 23.APR.2024 07:50:09

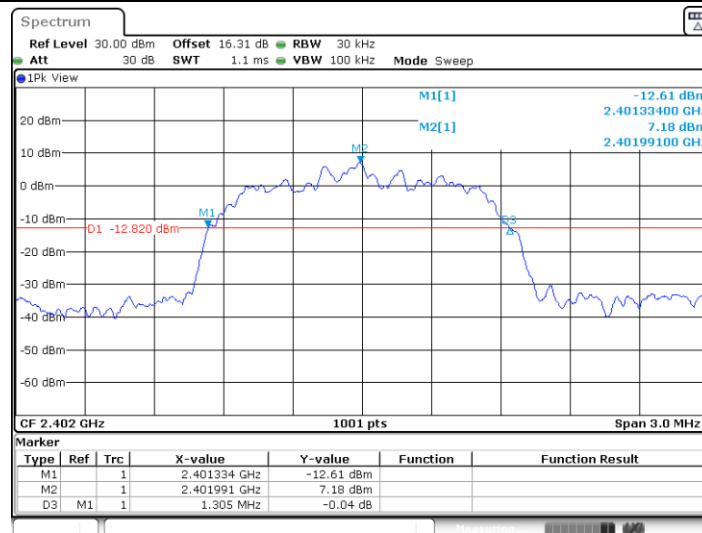


2DH1_Ant9_2402



Date: 23.APR.2024 07:27:21

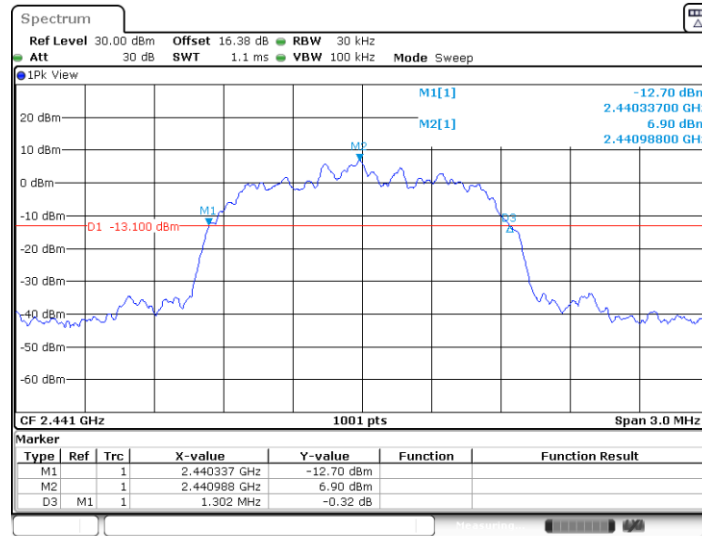
2DH1_Ant10_2402



Date: 23.APR.2024 07:51:27

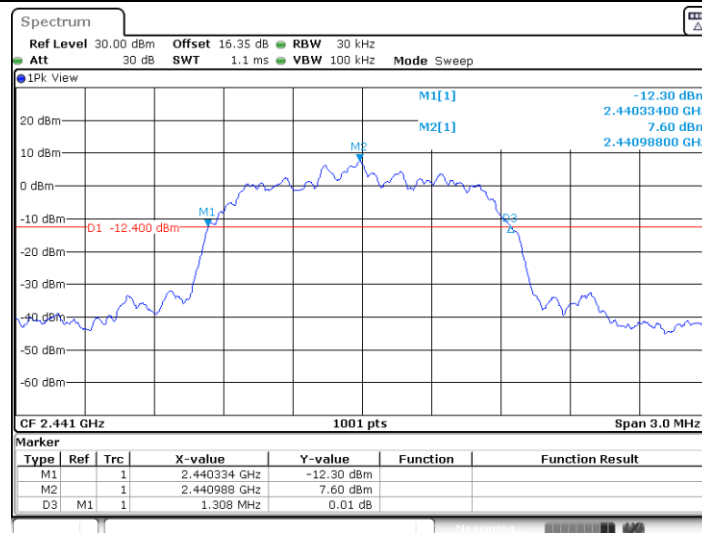


2DH1_Ant9_2441



Date: 23.APR.2024 07:28:43

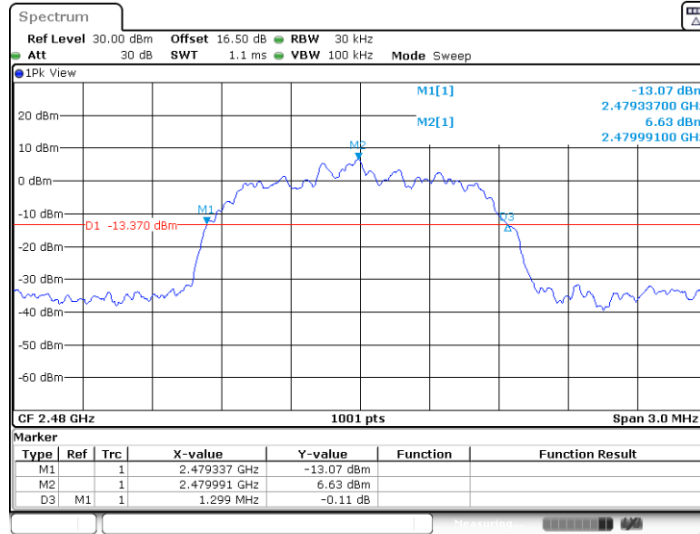
2DH1_Ant10_2441



Date: 23.APR.2024 07:52:53

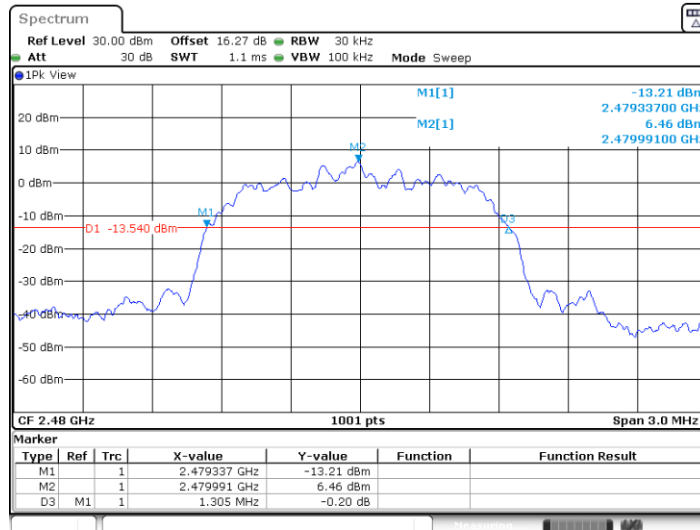


2DH1_Ant9_2480



Date: 23.APR.2024 07:29:55

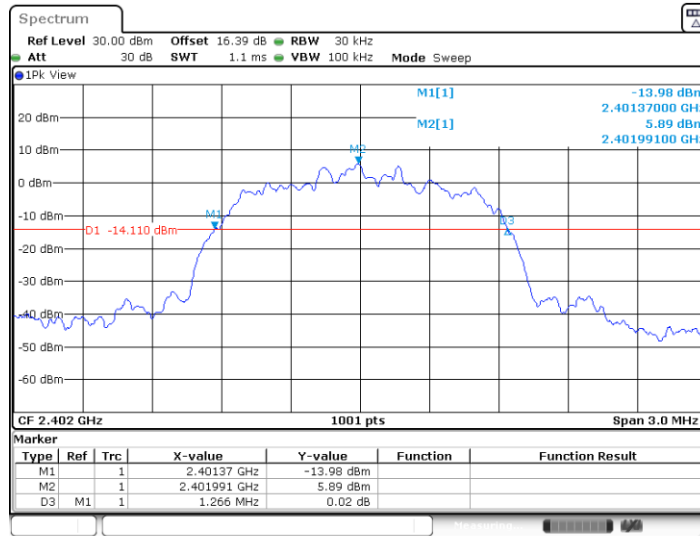
2DH1_Ant10_2480



Date: 23.APR.2024 07:54:20

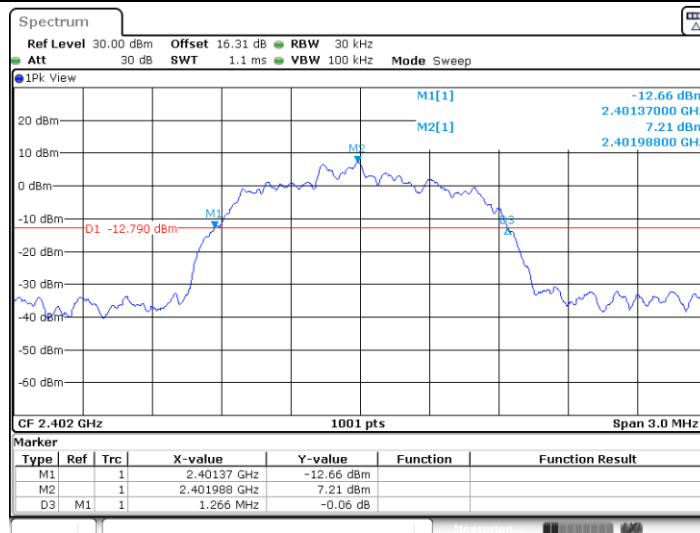


3DH1_Ant9_2402



Date: 23.APR.2024 07:31:26

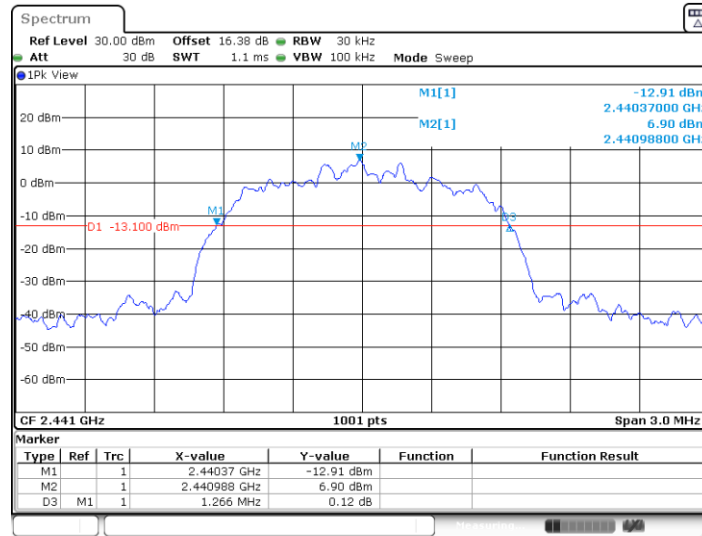
3DH1_Ant10_2402



Date: 23.APR.2024 07:56:24

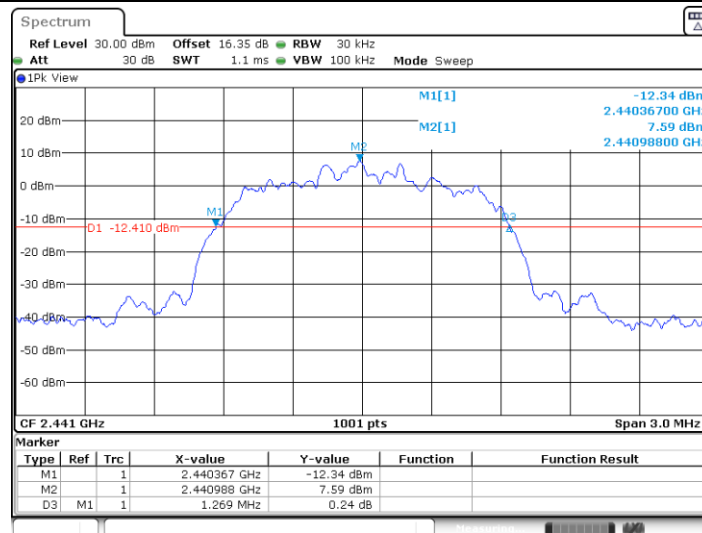


3DH1_Ant9_2441



Date: 23.APR.2024 07:32:52

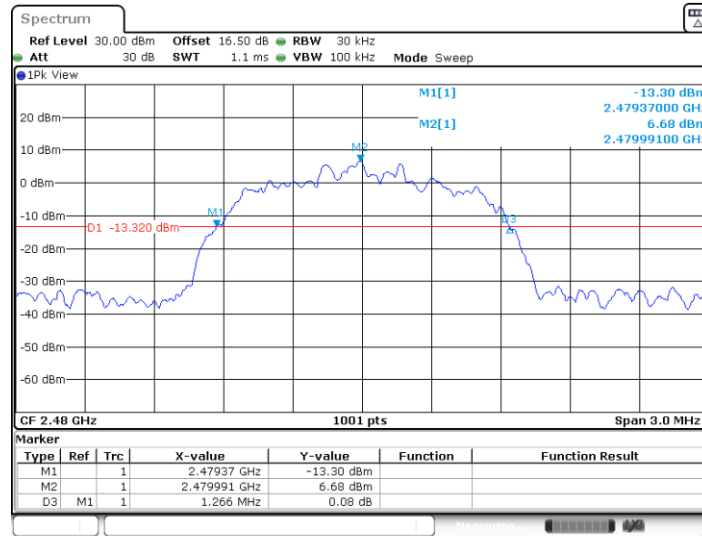
3DH1_Ant10_2441



Date: 23.APR.2024 07:57:43

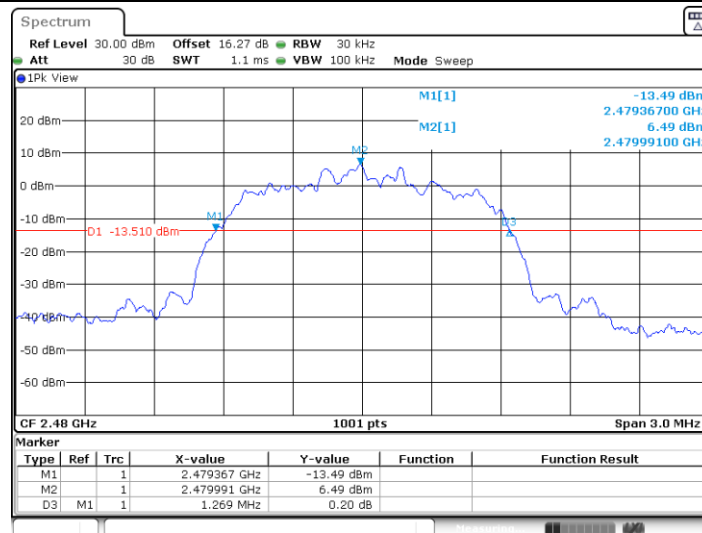


3DH1_Ant9_2480



Date: 23.APR.2024 07:33:56

3DH1_Ant10_2480



Date: 23.APR.2024 08:21:07



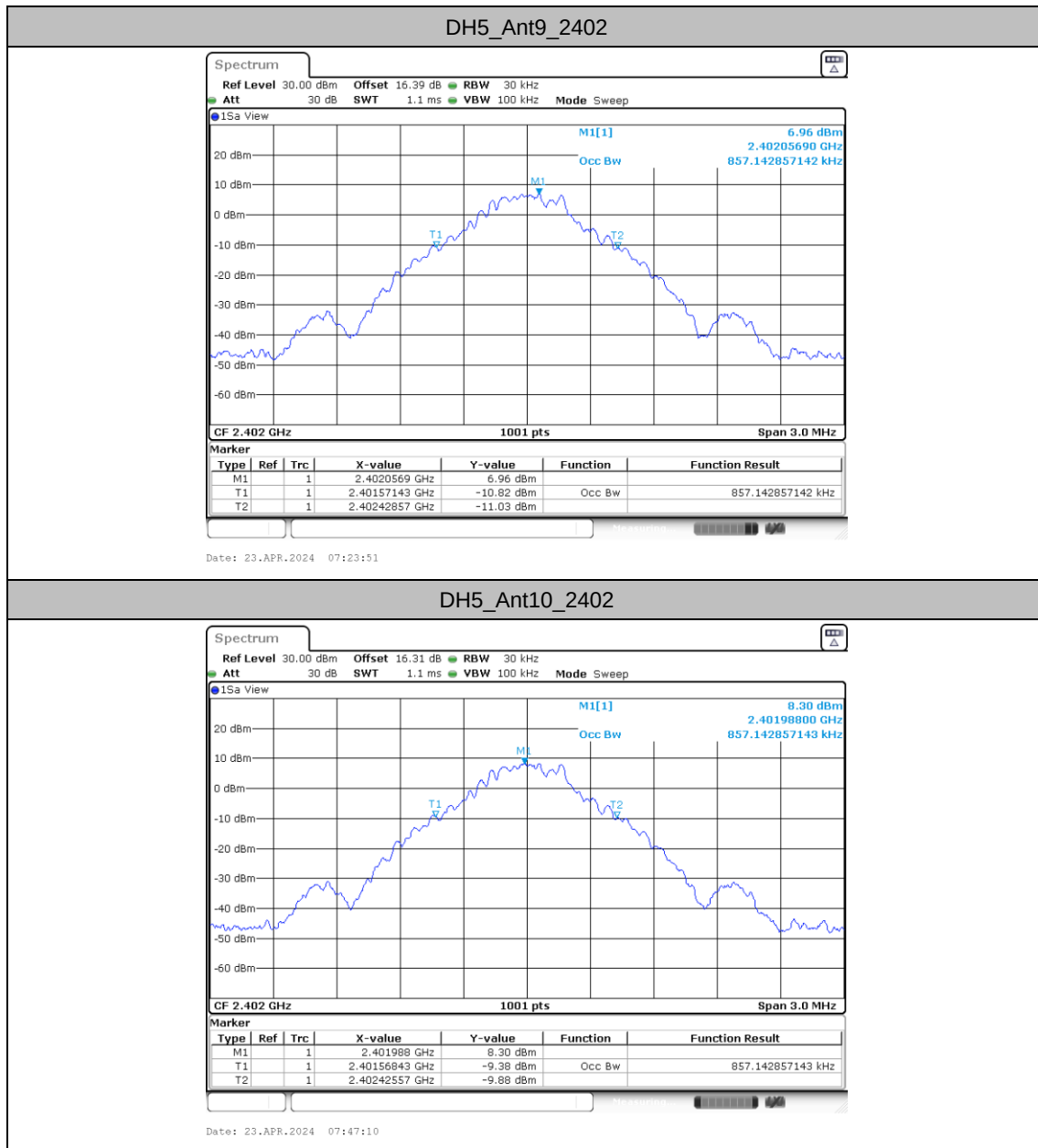
Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant9	2402	0.857	2401.5714	2402.4286	---	---
	Ant10	2402	0.857	2401.5684	2402.4256	---	---
	Ant9	2441	0.857	2440.5684	2441.4256	---	---
	Ant10	2441	0.854	2440.5714	2441.4256	---	---
	Ant9	2480	0.854	2479.5684	2480.4226	---	---
	Ant10	2480	0.857	2479.5684	2480.4256	---	---
2DH1	Ant9	2402	1.172	2401.4066	2402.5784	---	---
	Ant10	2402	1.172	2401.4066	2402.5784	---	---
	Ant9	2441	1.169	2440.4066	2441.5754	---	---
	Ant10	2441	1.172	2440.4036	2441.5754	---	---
	Ant9	2480	1.175	2479.4036	2480.5784	---	---
	Ant10	2480	1.169	2479.4066	2480.5754	---	---
3DH1	Ant9	2402	1.157	2401.4336	2402.5904	---	---
	Ant10	2402	1.157	2401.4336	2402.5904	---	---
	Ant9	2441	1.154	2440.4336	2441.5874	---	---
	Ant10	2441	1.154	2440.4336	2441.5874	---	---
	Ant9	2480	1.157	2479.4336	2480.5904	---	---
	Ant10	2480	1.16	2479.4306	2480.5904	---	---

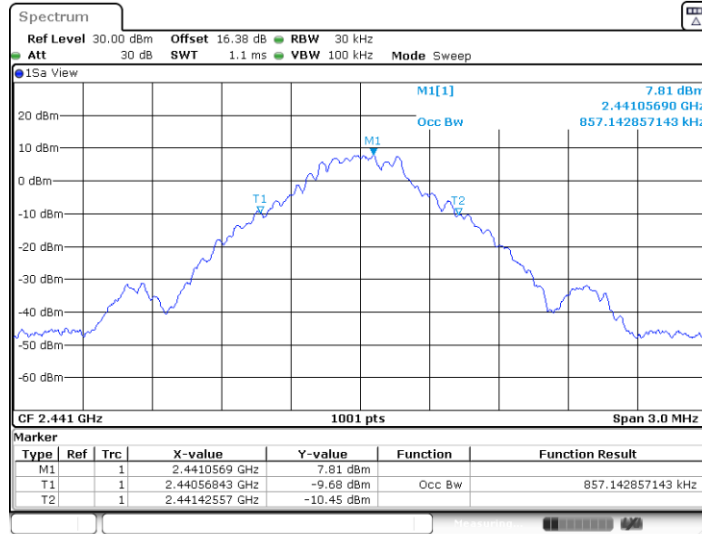


Test Graphs

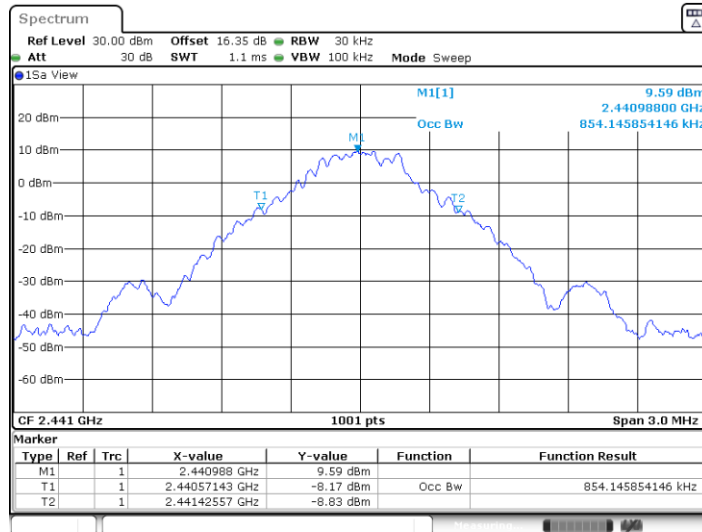




DH5_Ant9_2441

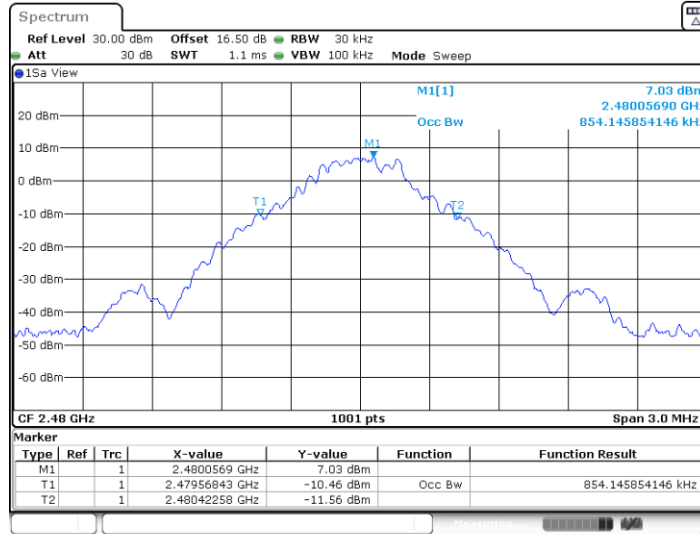


DH5_Ant10_2441



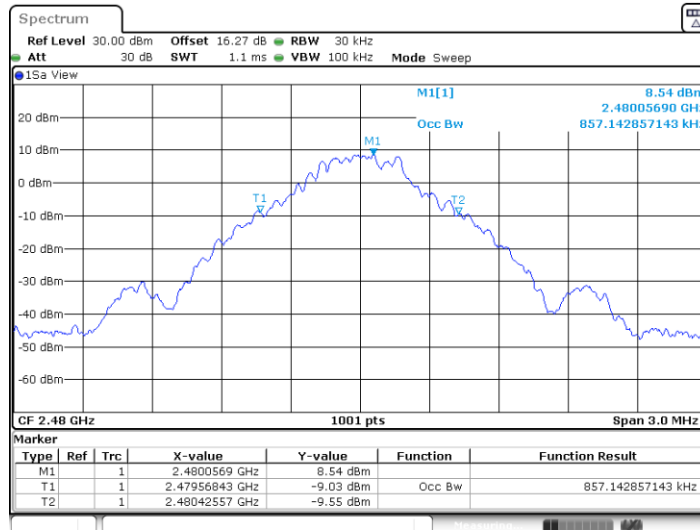


DH5_Ant9_2480



Date: 23.APR.2024 07:26:06

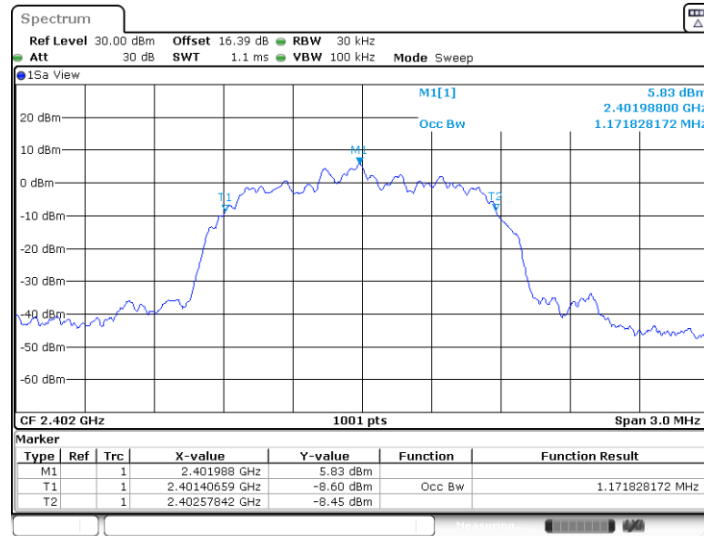
DH5_Ant10_2480



Date: 23.APR.2024 07:50:20

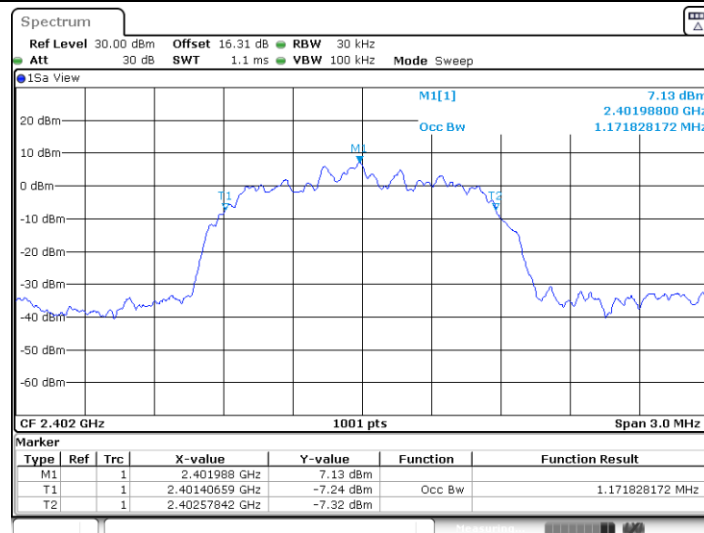


2DH1_Ant9_2402



Date: 23.APR.2024 07:27:31

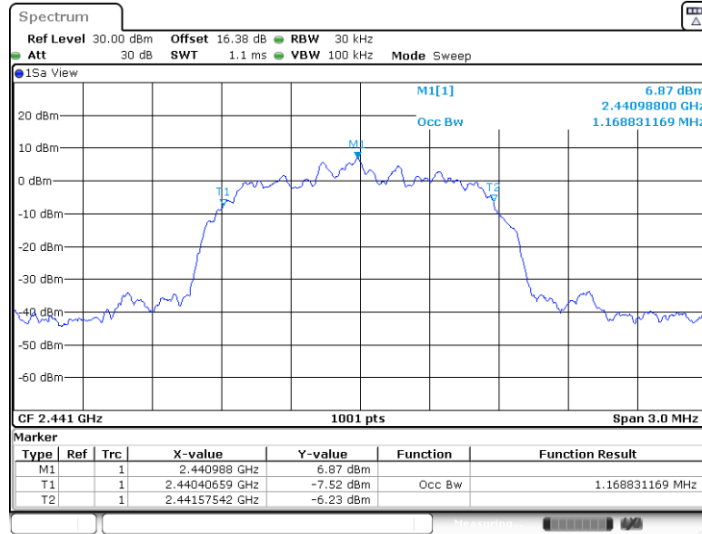
2DH1_Ant10_2402



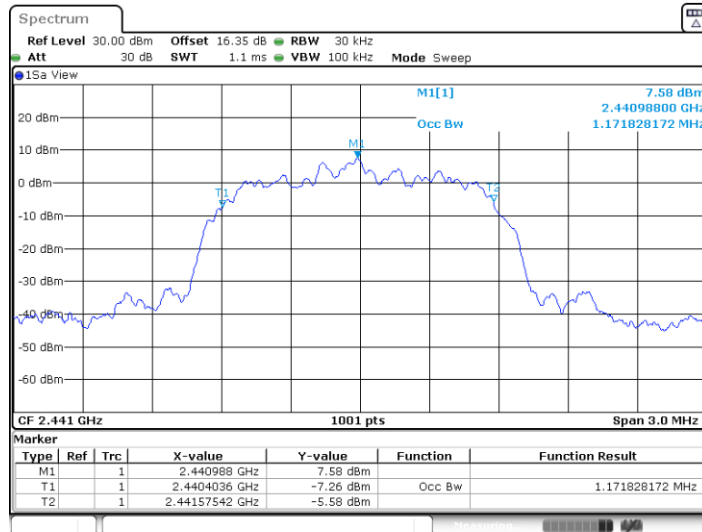
Date: 23.APR.2024 07:51:38



2DH1_Ant9_2441

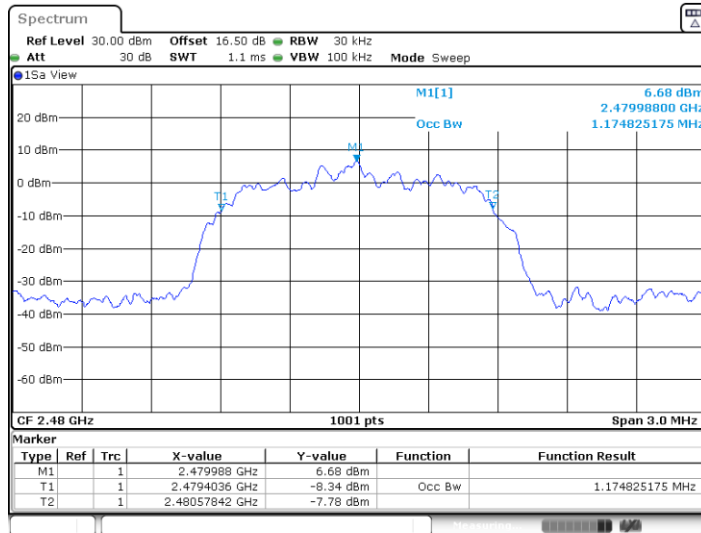


2DH1_Ant10_2441



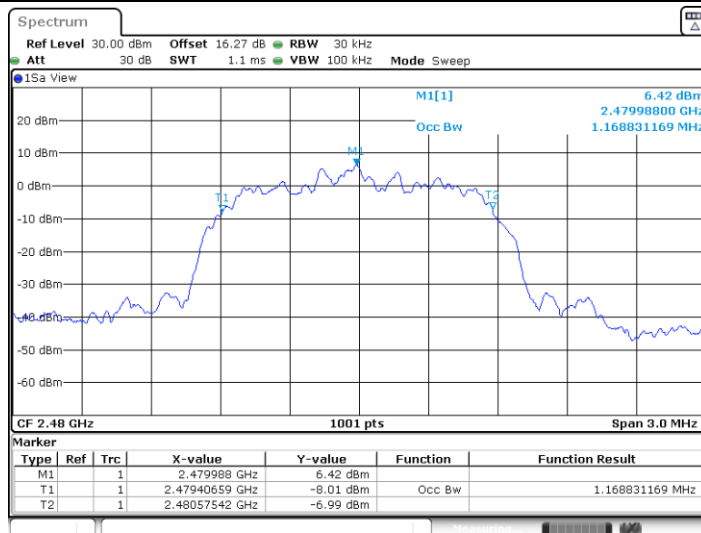


2DH1_Ant9_2480



Date: 23.APR.2024 07:30:06

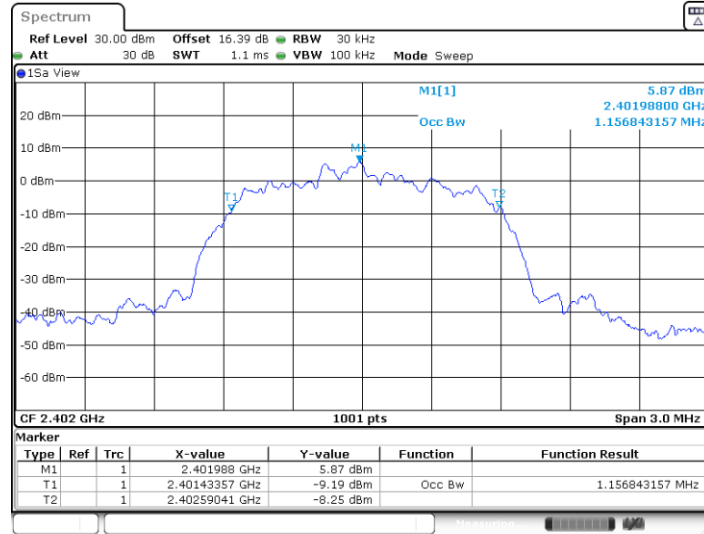
2DH1_Ant10_2480



Date: 23.APR.2024 07:54:30

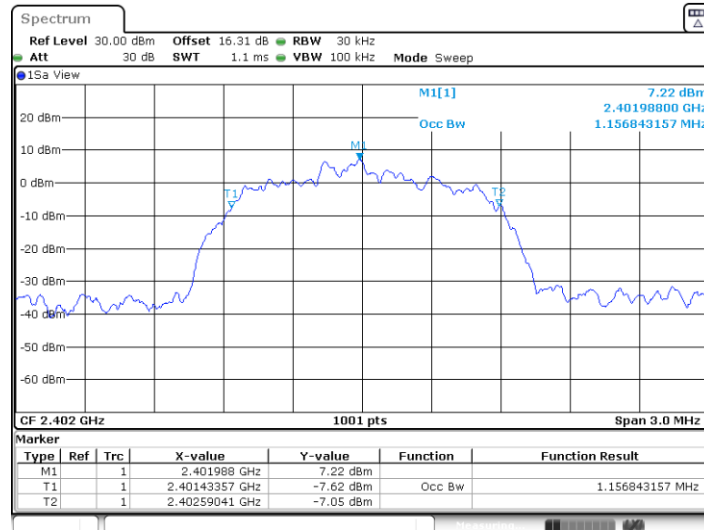


3DH1_Ant9_2402



Date: 23.APR.2024 07:31:36

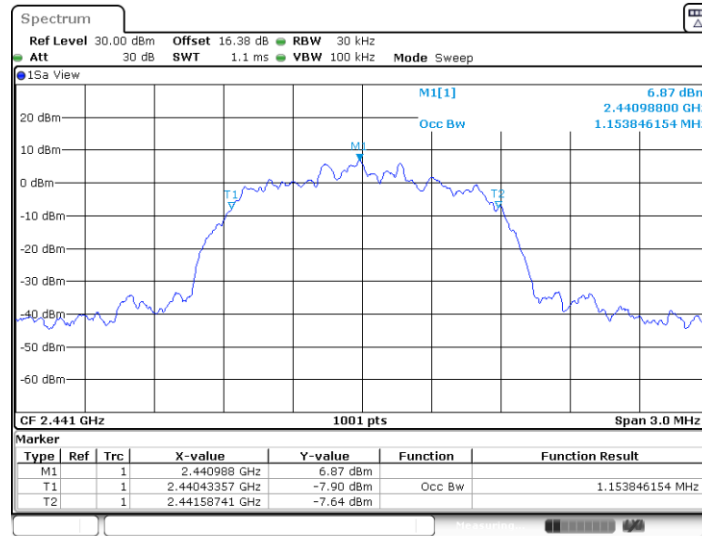
3DH1_Ant10_2402



Date: 23.APR.2024 07:56:34

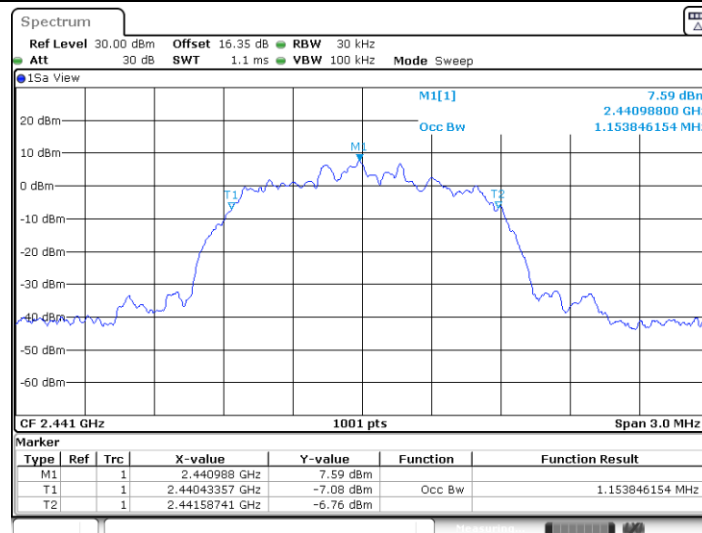


3DH1_Ant9_2441



Date: 23.APR.2024 07:33:03

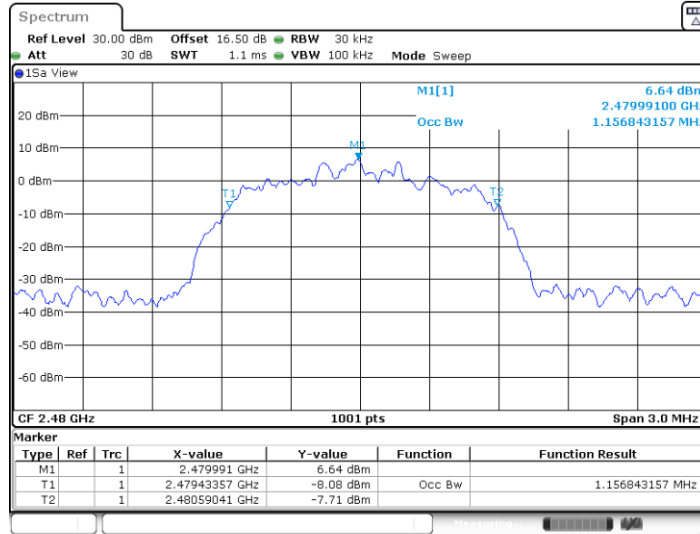
3DH1_Ant10_2441



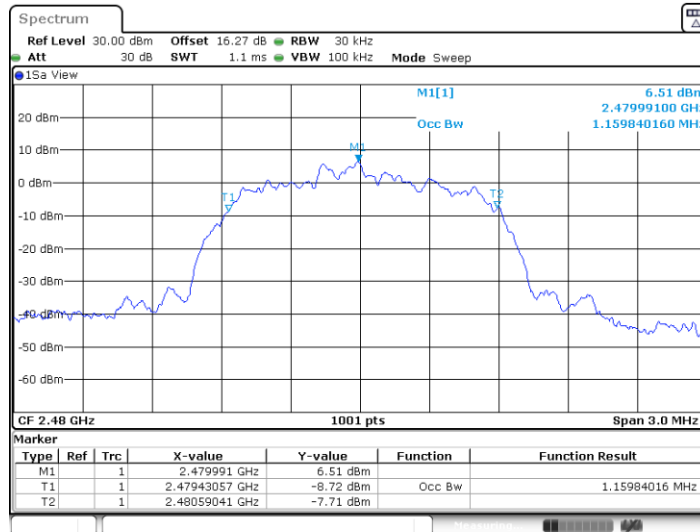
Date: 23.APR.2024 07:57:53



3DH1_Ant9_2480



3DH1_Ant10_2480





Maximum conducted output power

Test Result Peak

TestMode	Antenna	CH.	Peak Power (dBm)	Power Limit (dBm)	Pass/Fail
DH5	Ant9	0	10.64	20.97	Pass
		39	11.29	20.97	Pass
		78	10.85	20.97	Pass
2DH5	Ant9	0	11.70	20.97	Pass
		39	12.95	20.97	Pass
		78	12.14	20.97	Pass
3DH5	Ant9	0	12.12	20.97	Pass
		39	13.42	20.97	Pass
		78	12.51	20.97	Pass
DH5	Ant10	0	10.99	20.97	Pass
		39	12.63	20.97	Pass
		78	11.70	20.97	Pass
2DH5	Ant10	0	12.33	20.97	Pass
		39	13.46	20.97	Pass
		78	11.95	20.97	Pass
3DH5	Ant10	0	12.62	20.97	Pass
		39	13.83	20.97	Pass
		78	12.38	20.97	Pass
DH5	Ant9+10	0	13.83	20.97	Pass
		39	15.02	20.97	Pass
		78	14.31	20.97	Pass
2DH5	Ant9+10	0	15.04	20.97	Pass
		39	16.22	20.97	Pass
		78	15.06	20.97	Pass
3DH5	Ant9+10	0	15.39	20.97	Pass
		39	16.64	20.97	Pass
		78	15.46	20.97	Pass



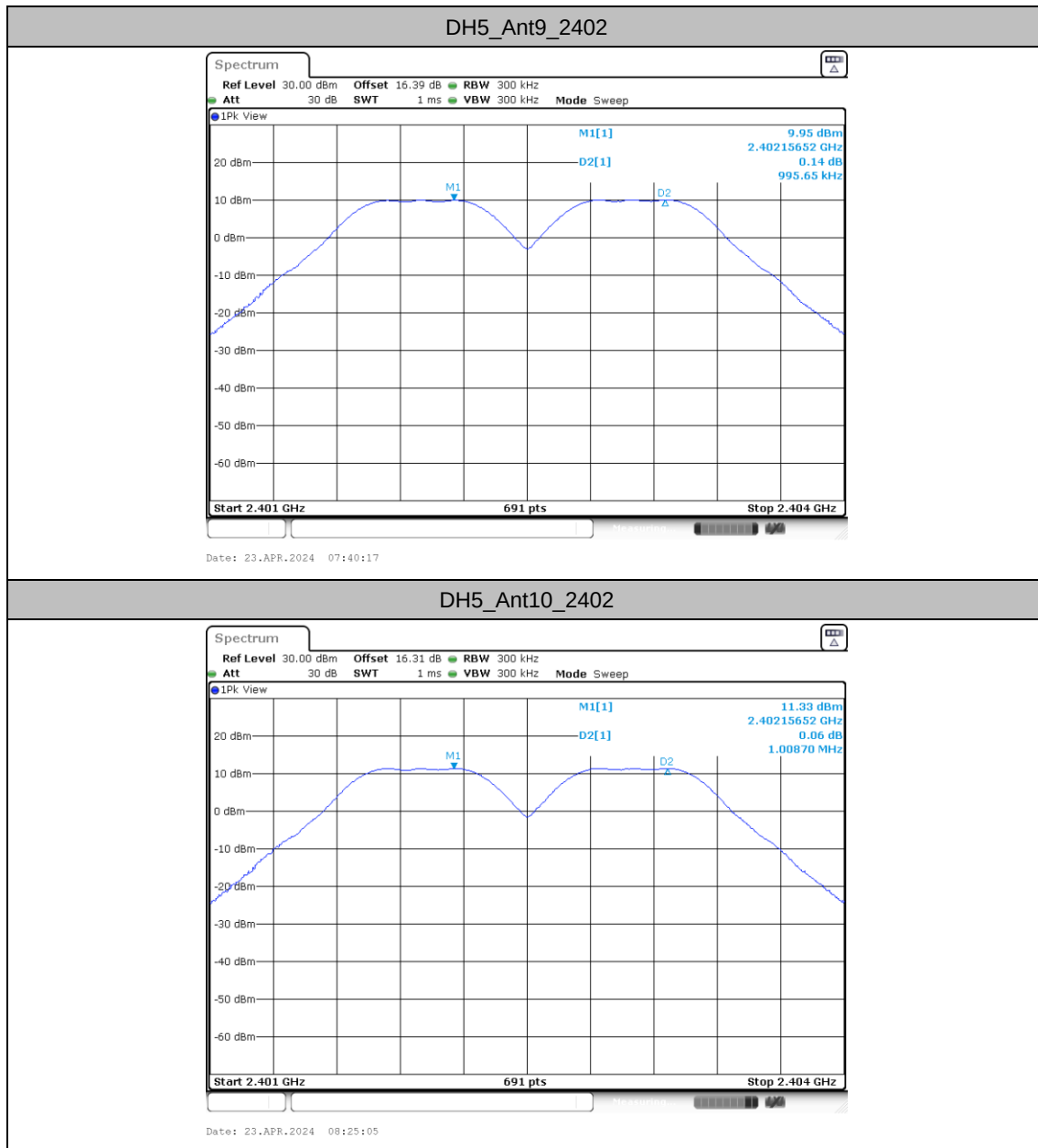
Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant9	2402	0.996	≥ 0.633	PASS
	Ant10	2402	1.009	≥ 0.633	PASS
	Ant9	2441	1.126	≥ 0.633	PASS
	Ant10	2441	1	≥ 0.633	PASS
	Ant9	2480	1	≥ 0.633	PASS
	Ant10	2480	0.996	≥ 0.633	PASS
2DH1	Ant9	2402	1.013	≥ 0.867	PASS
	Ant10	2402	1	≥ 0.873	PASS
	Ant9	2441	1.148	≥ 0.867	PASS
	Ant10	2441	1.017	≥ 0.873	PASS
	Ant9	2480	0.996	≥ 0.867	PASS
	Ant10	2480	0.978	≥ 0.867	PASS
3DH1	Ant9	2402	1.165	≥ 0.847	PASS
	Ant10	2402	0.996	≥ 0.847	PASS
	Ant9	2441	1.135	≥ 0.847	PASS
	Ant10	2441	1.009	≥ 0.847	PASS
	Ant9	2480	1.017	≥ 0.847	PASS
	Ant10	2480	1	≥ 0.847	PASS

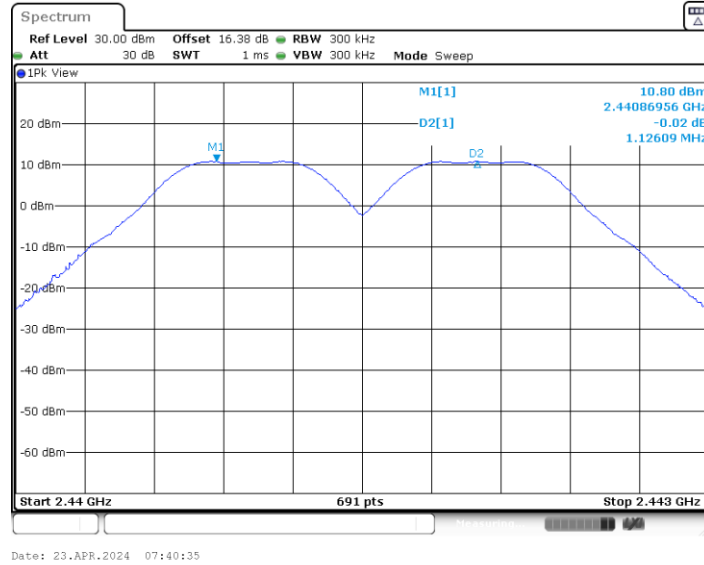


Test Graphs

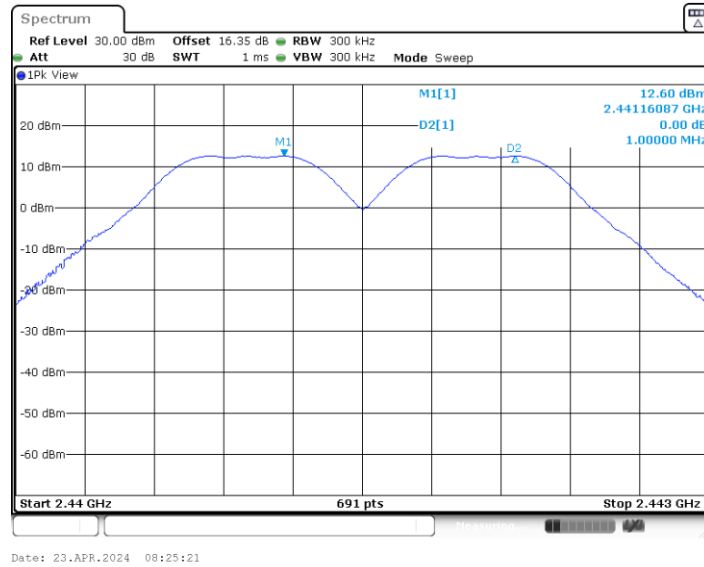




DH5_Ant9_2441

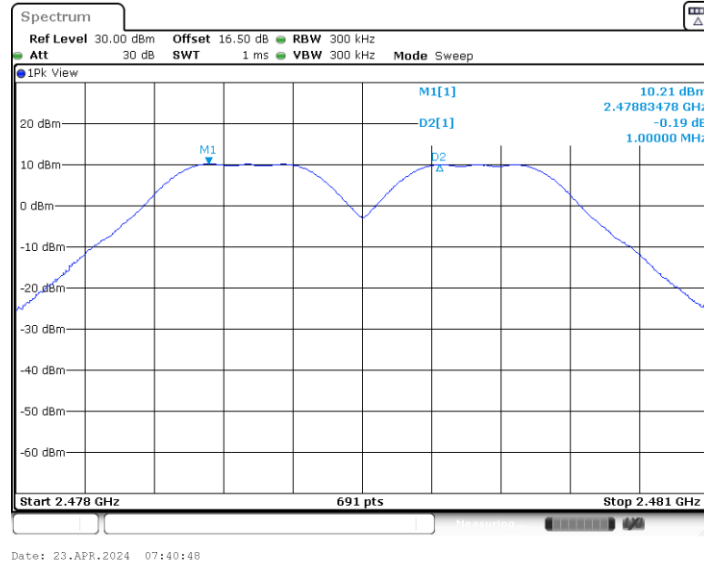


DH5_Ant10_2441

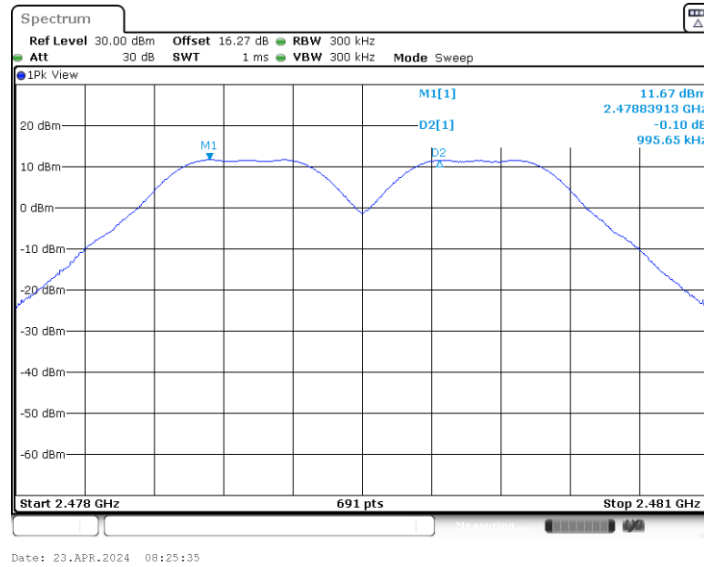




DH5_Ant9_2480

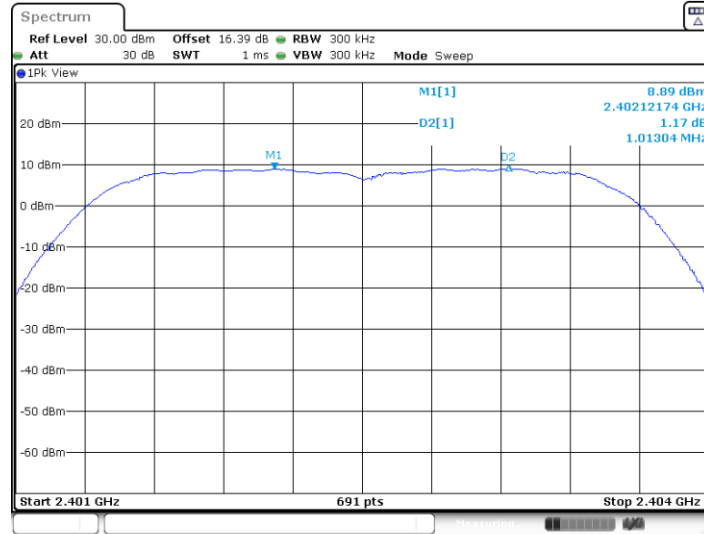


DH5_Ant10_2480



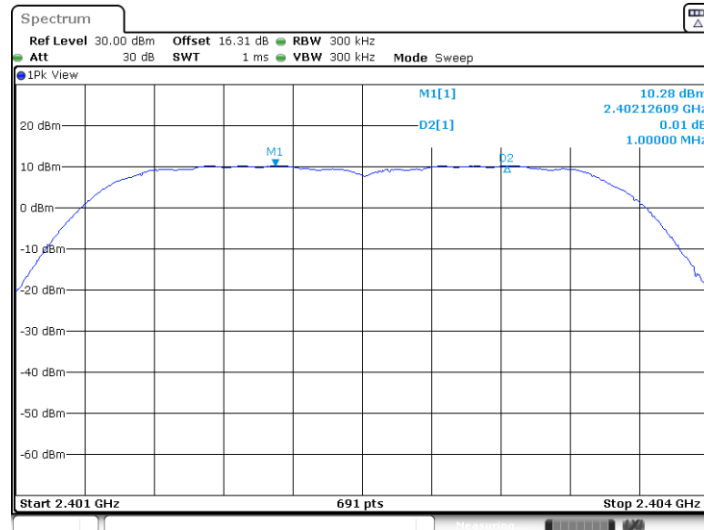


2DH1_Ant9_2402



Date: 23.APR.2024 07:41:14

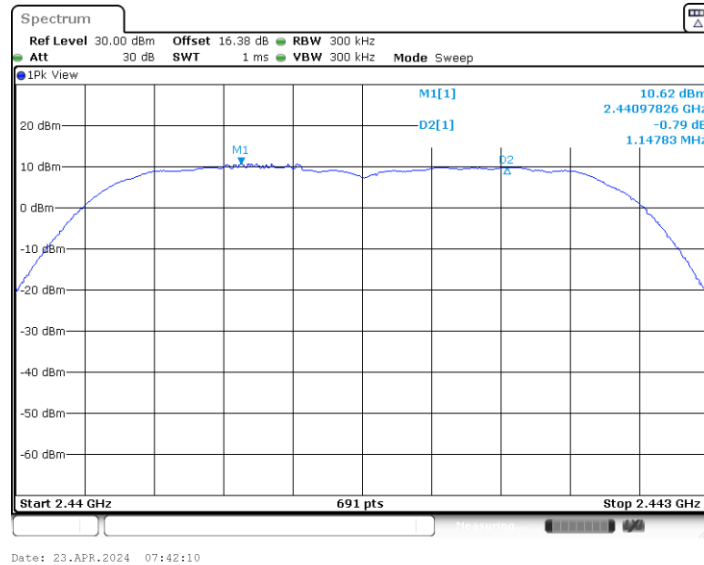
2DH1_Ant10_2402



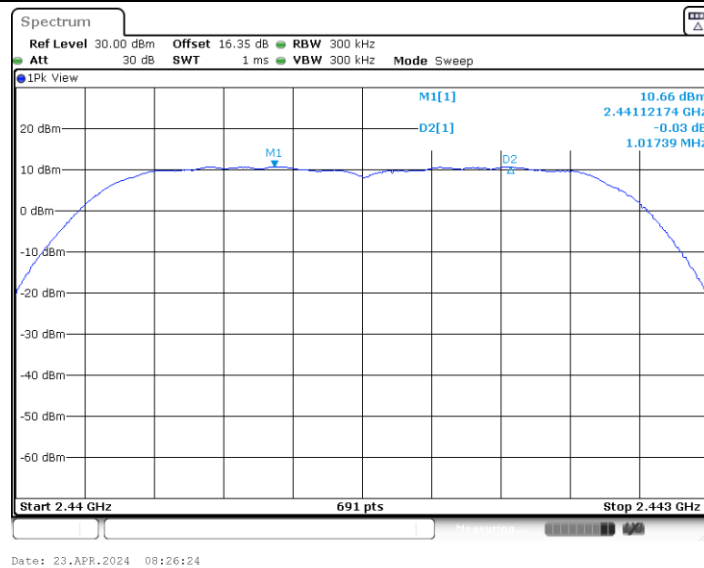
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2DH1_Ant9_2441

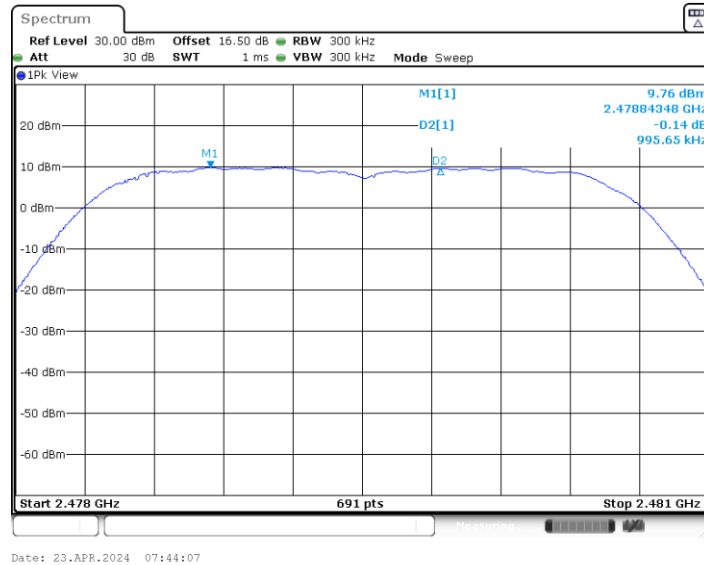


2DH1_Ant10_2441

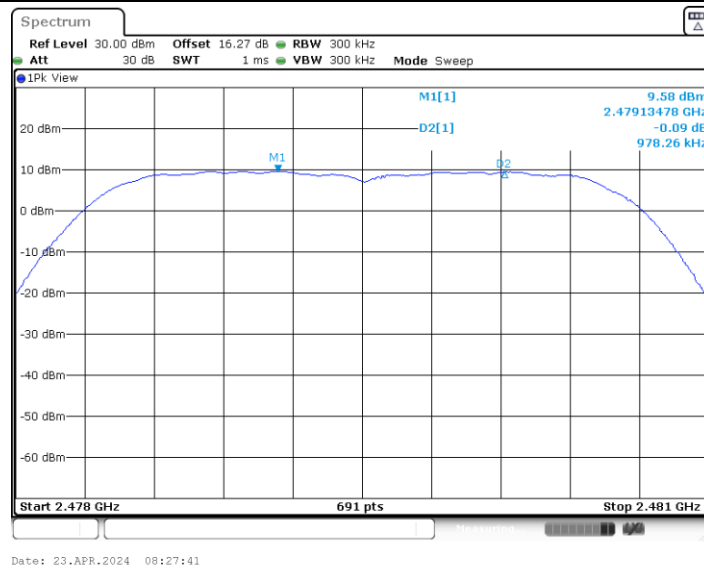




2DH1_Ant9_2480

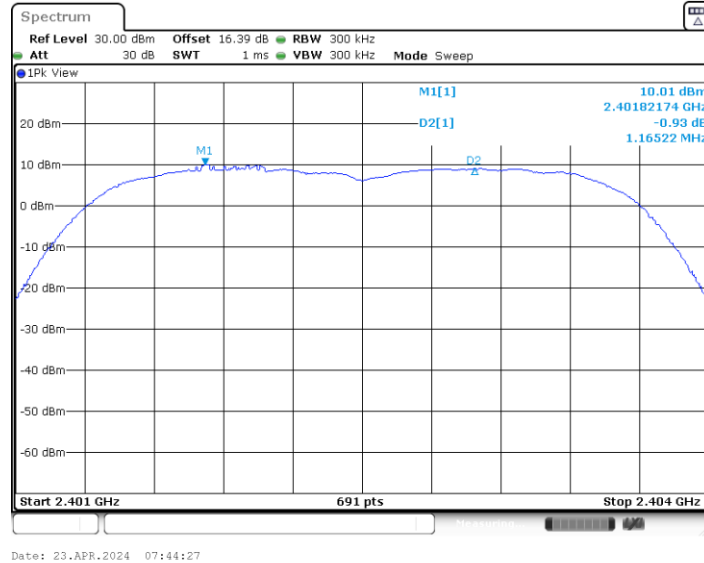


2DH1_Ant10_2480

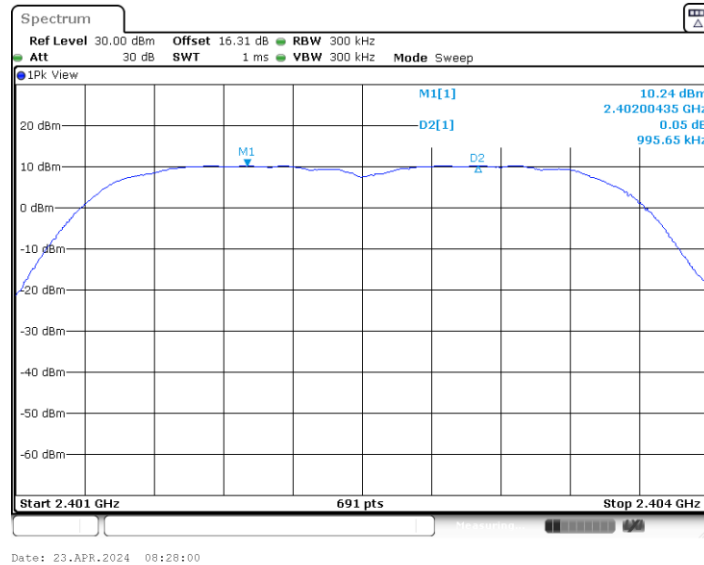




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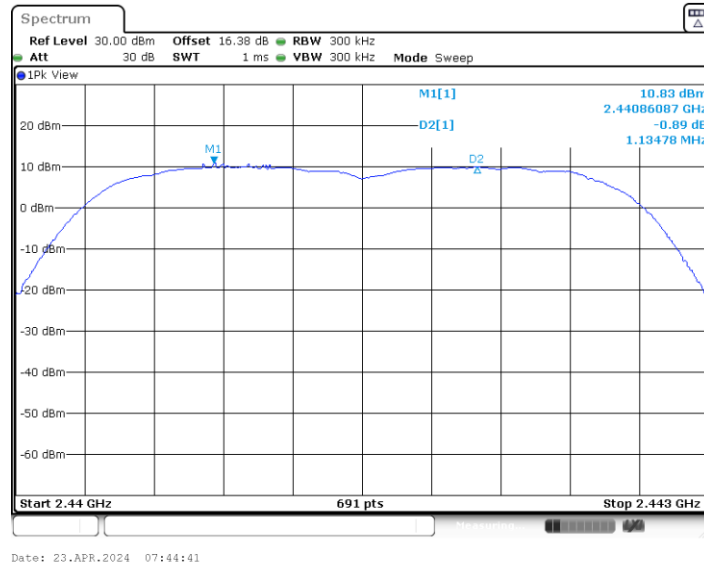


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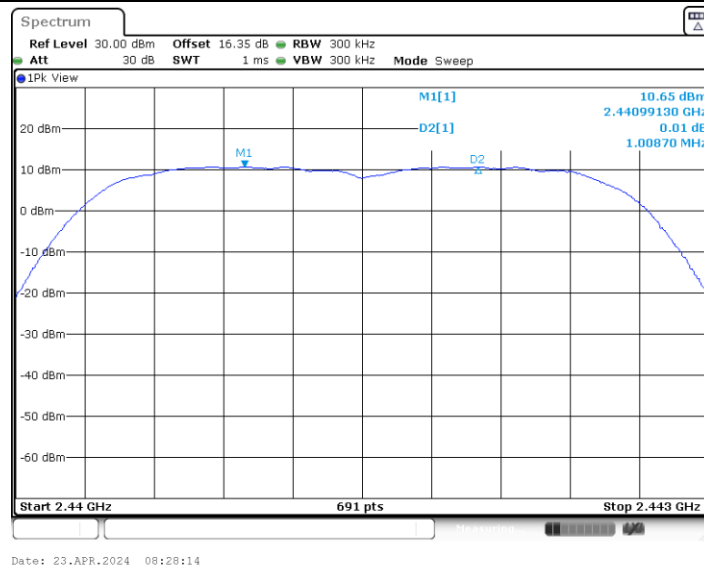




3DH1_Ant9_2441

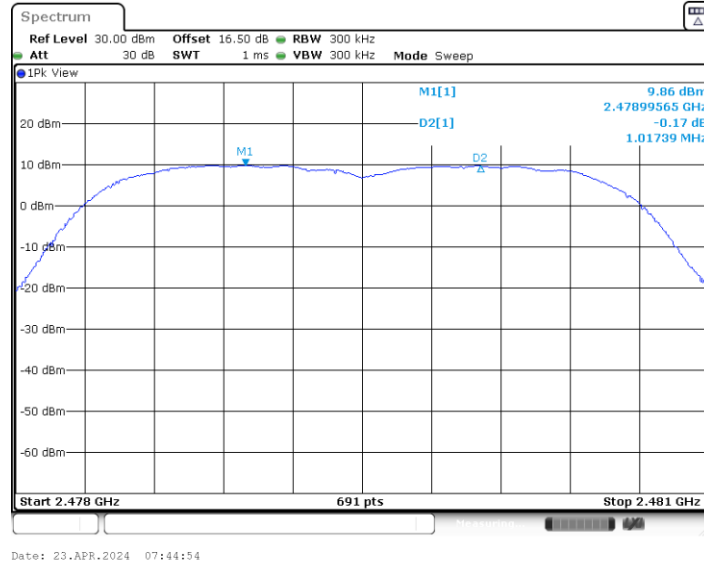


3DH1_Ant10_2441

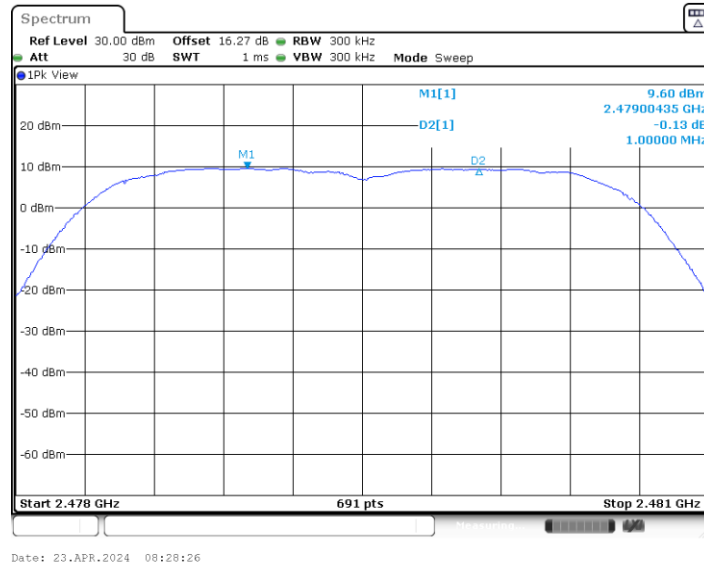




3DH1_Ant9_2480



3DH1_Ant10_2480

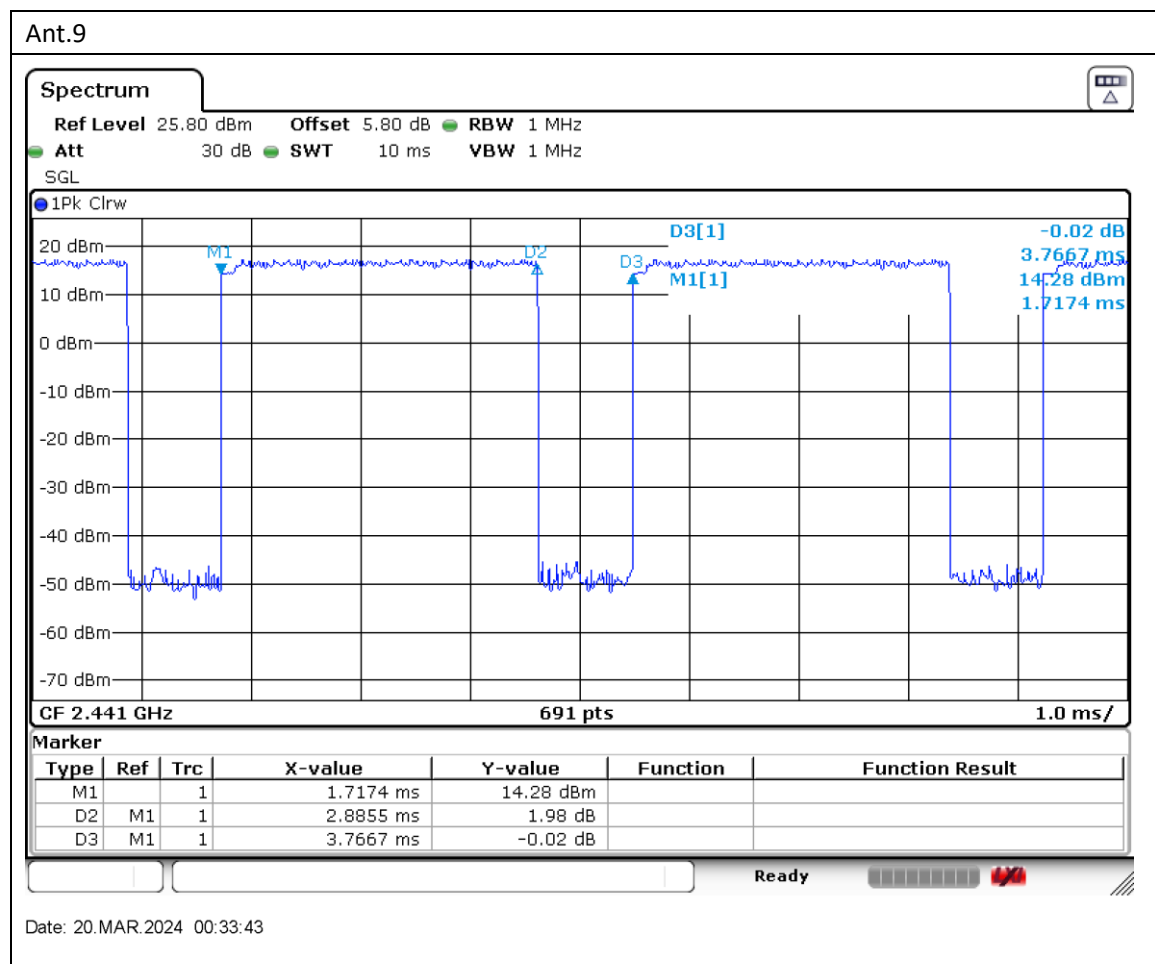




Time of occupancy

Test Result

TestMode	Antenna	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Normal	Ant9	79	106.67	2.8855	0.31	0.4	Pass
AFH	Ant9	20	53.33	2.8855	0.15	0.4	Pass
Normal	Ant10	79	106.67	2.9000	0.31	0.4	Pass
AFH	Ant10	20	53.33	2.9000	0.15	0.4	Pass





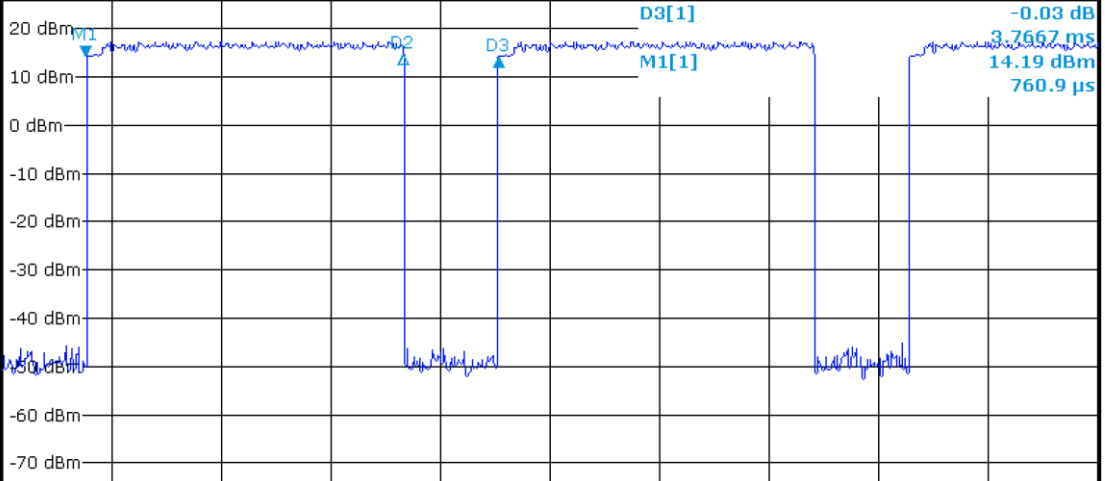
Ant.10

Spectrum

Ref Level 25.80 dBm Offset 5.80 dB RBW 1 MHz
Att 30 dB SWT 10 ms VBW 1 MHz

SGL

1Pk Clrw



Date: 20.MAR.2024 00:34:46

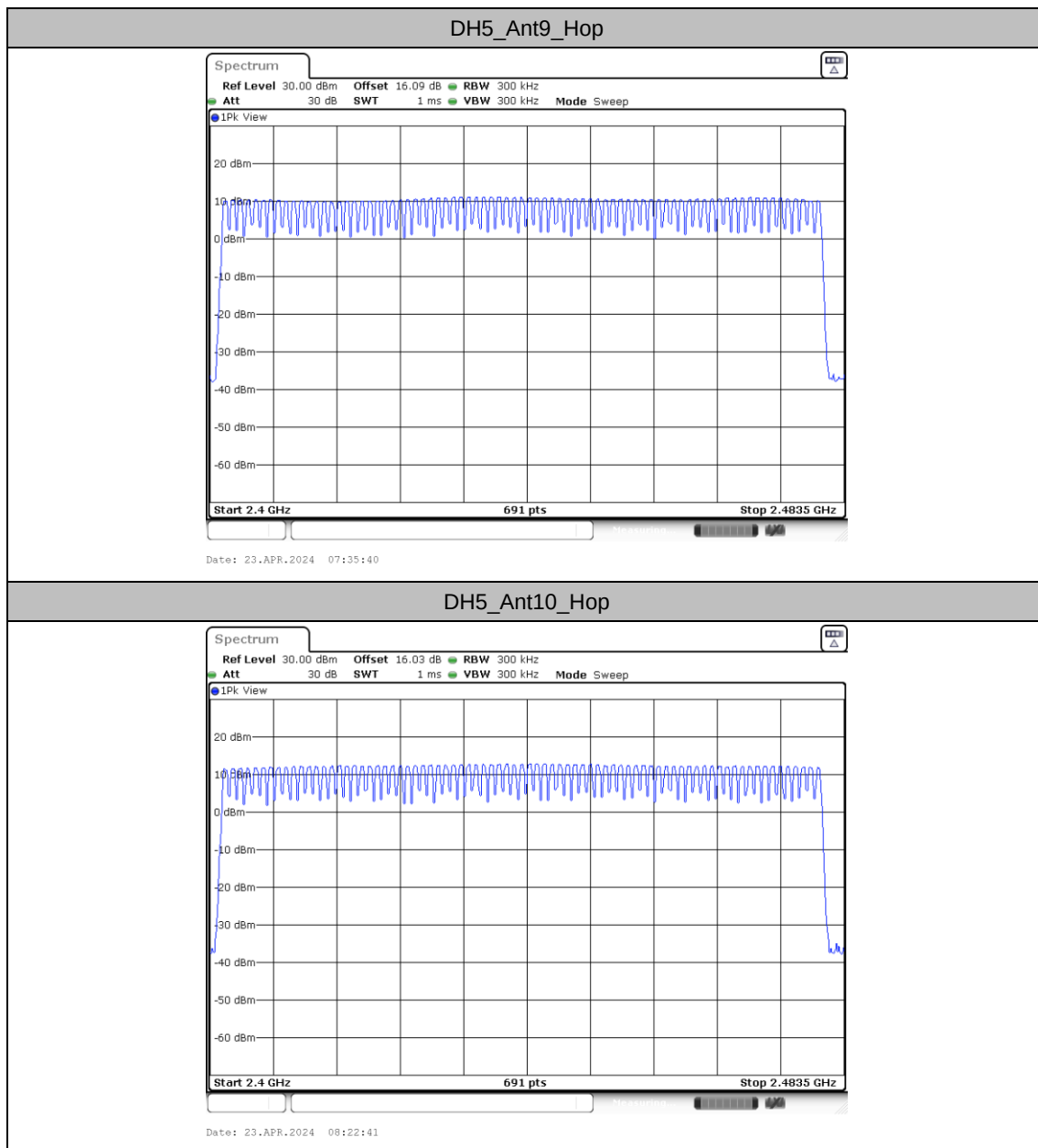


Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant9	Hop	79	≥15	PASS
	Ant10	Hop	79	≥15	PASS

Test Graphs





SPORTON LAB.



Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant9	Low	2402	9.83	-39.54	≤-10.17	PASS
	Ant10	Low	2402	11.11	-39.28	≤-8.89	PASS
	Ant9	High	2480	9.76	-38.99	≤-10.24	PASS
	Ant10	High	2480	11.34	-38.82	≤-8.66	PASS
	Ant9	Low	Hop_2402	9.46	-40.65	≤-10.54	PASS
	Ant10	Low	Hop_2402	11.08	-39.69	≤-8.92	PASS
	Ant9	High	Hop_2480	10.27	-38.5	≤-9.73	PASS
	Ant10	High	Hop_2480	11.54	-38.95	≤-8.46	PASS
2DH1	Ant9	Low	2402	8.58	-40.09	≤-11.42	PASS
	Ant10	Low	2402	9.92	-36.22	≤-10.08	PASS
	Ant9	High	2480	9.39	-38.97	≤-10.61	PASS
	Ant10	High	2480	9.10	-38.96	≤-10.9	PASS
	Ant9	Low	Hop_2402	8.06	-40.08	≤-11.94	PASS
	Ant10	Low	Hop_2402	9.27	-39.95	≤-10.73	PASS
	Ant9	High	Hop_2480	9.35	-38.83	≤-10.65	PASS
	Ant10	High	Hop_2480	9.33	-39.27	≤-10.67	PASS
3DH1	Ant9	Low	2402	8.69	-40.06	≤-11.31	PASS
	Ant10	Low	2402	10.05	-36.11	≤-9.95	PASS
	Ant9	High	2480	9.43	-38.94	≤-10.57	PASS
	Ant10	High	2480	9.22	-38.71	≤-10.78	PASS
	Ant9	Low	Hop_2402	8.71	-40.49	≤-11.29	PASS
	Ant10	Low	Hop_2402	9.36	-38.22	≤-10.64	PASS
	Ant9	High	Hop_2480	9.73	-38.74	≤-10.27	PASS
	Ant10	High	Hop_2480	9.75	-38.84	≤-10.25	PASS

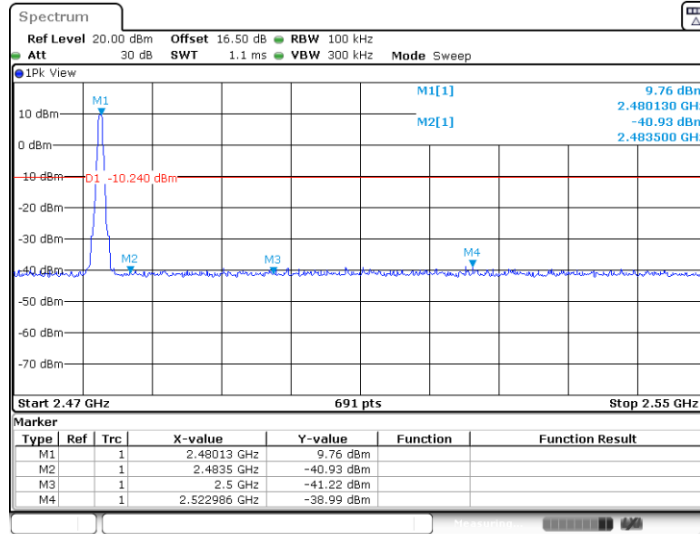


Test Graphs



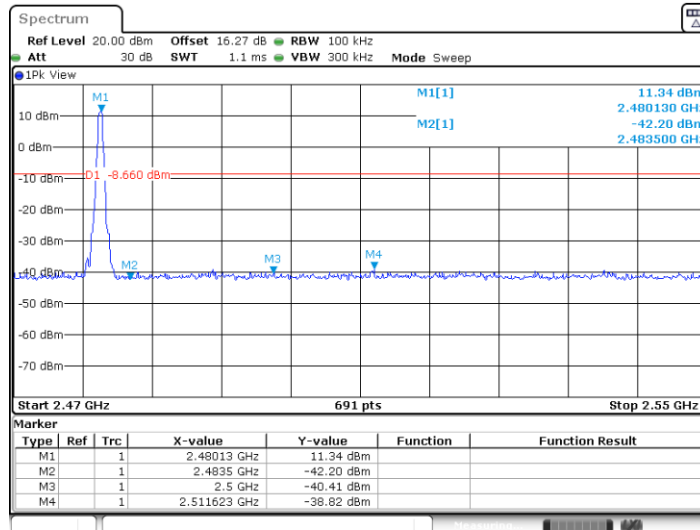


DH5_Ant9_High_2480



Date: 23.APR.2024 07:26:20

DH5_Ant10_High_2480



Date: 23.APR.2024 07:50:31