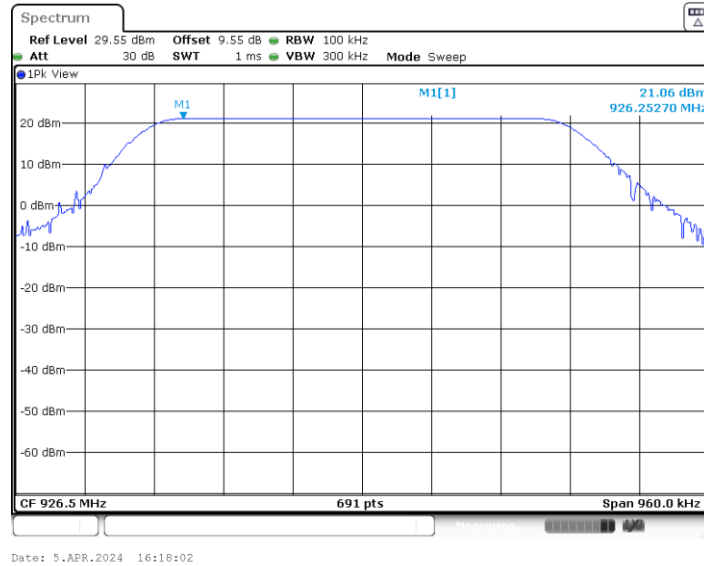
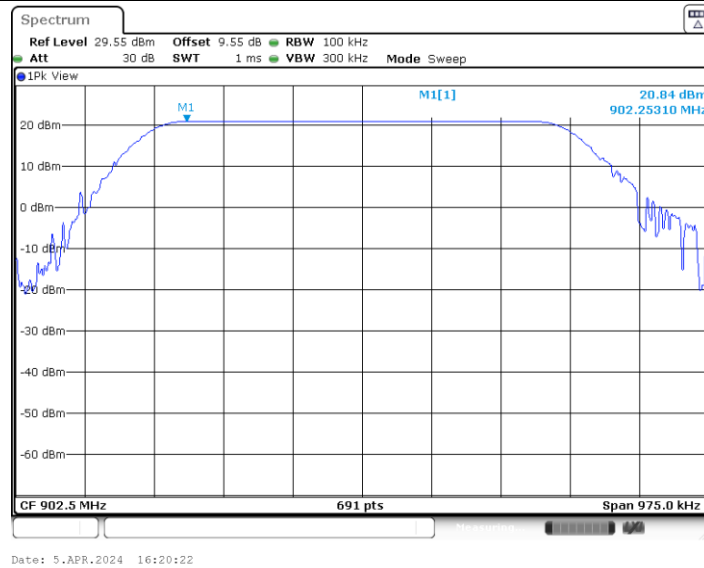




DTS-SF11_Ant1_926.5

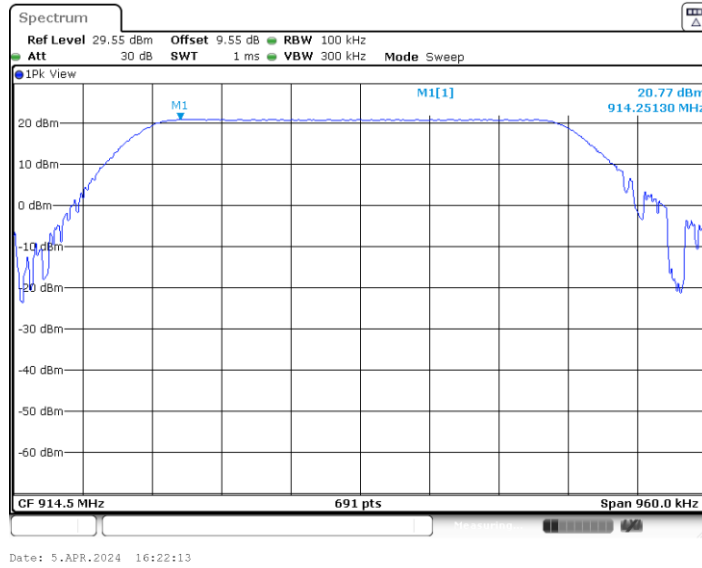


DTS-SF12_Ant1_902.5

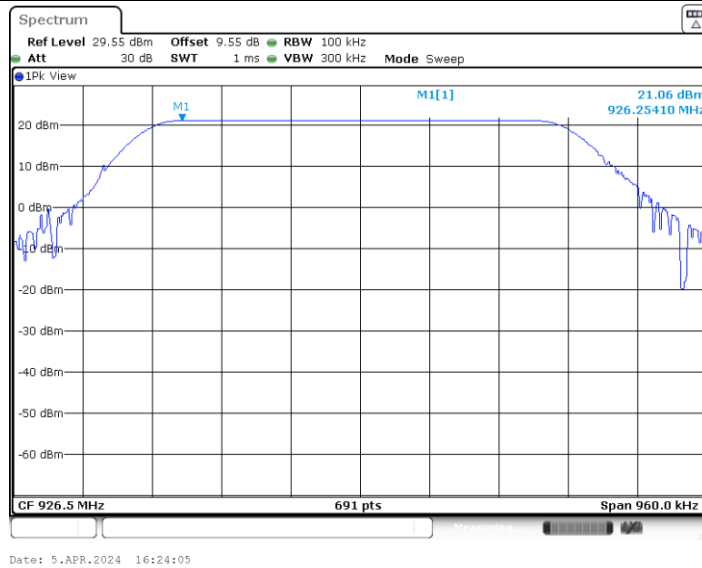




DTS-SF12_Ant1_914.5



DTS-SF12_Ant1_926.5



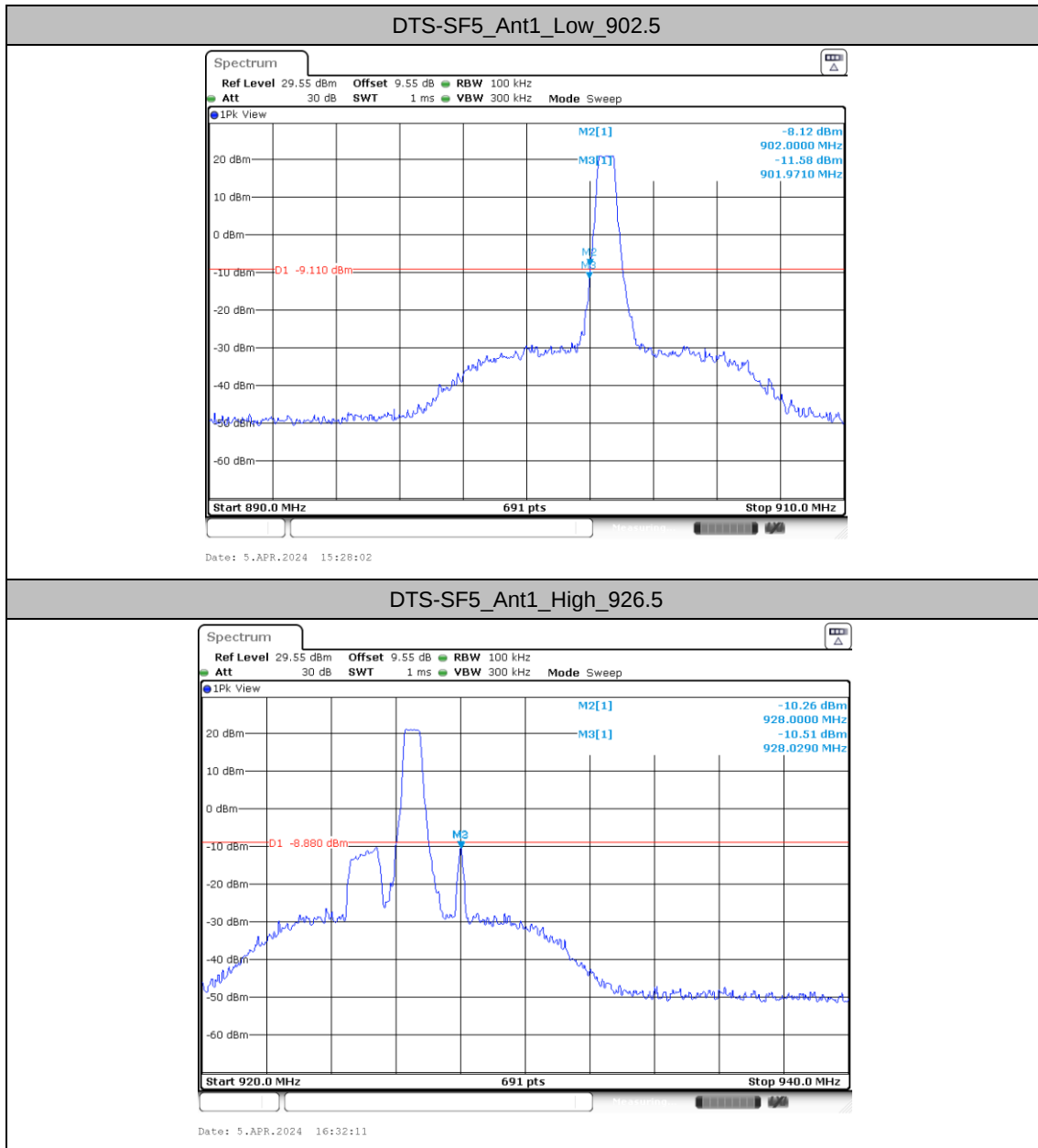
Band edge measurements

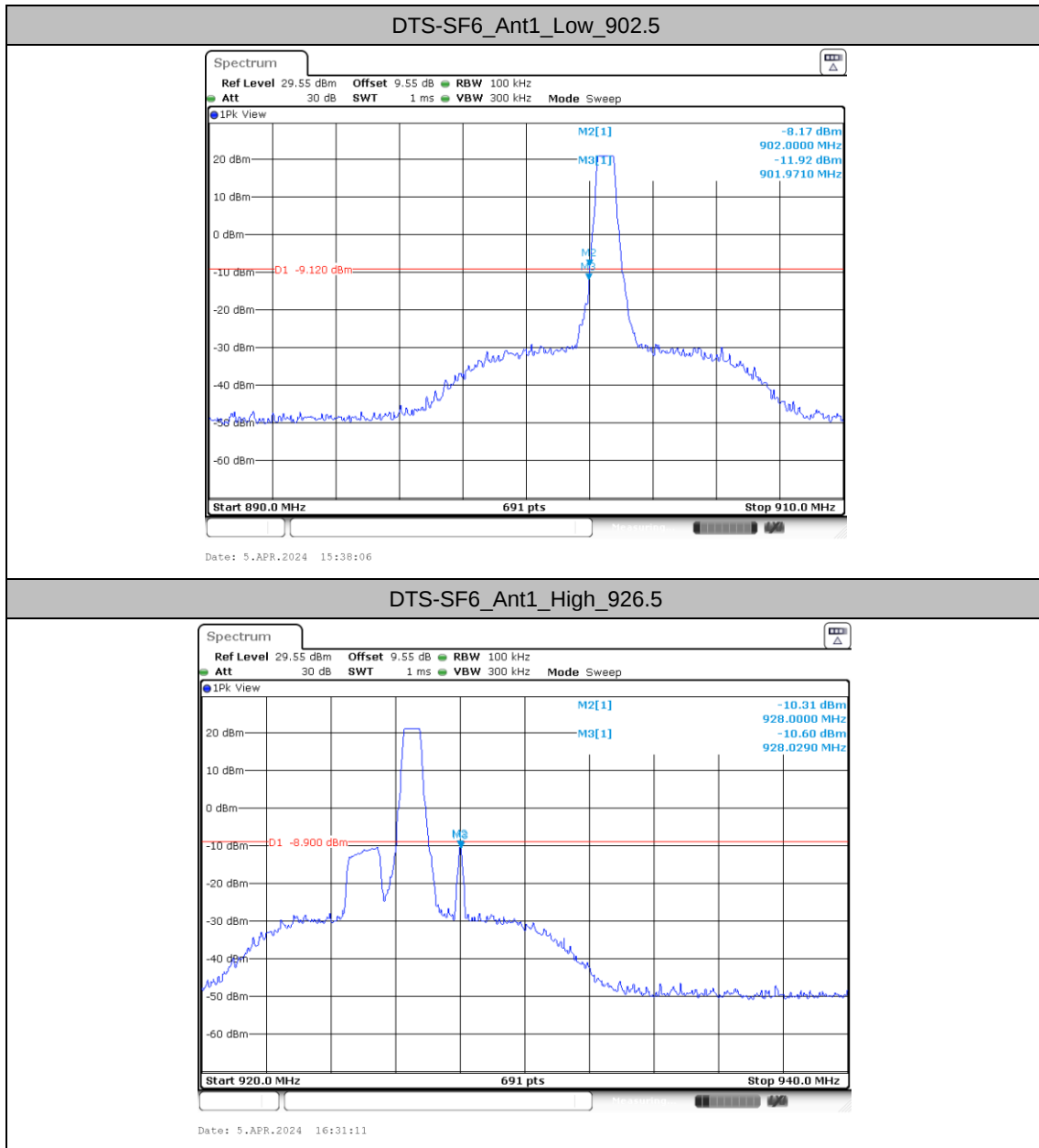
Test Result

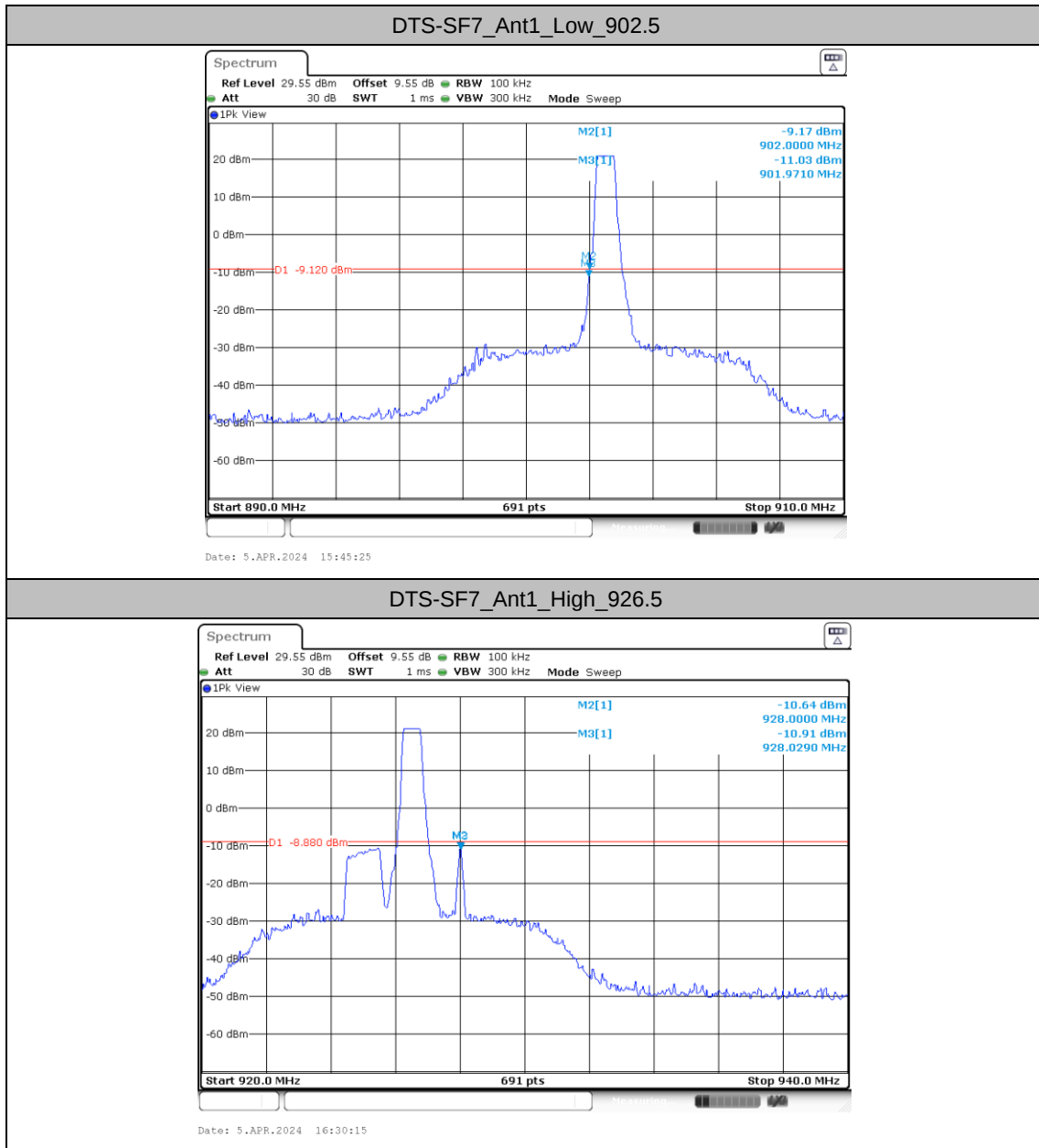
TestMode	Antenna	ChName	Freq (MHz)	RefLevel[dBm /100KHz]	Result[dBm /100KHz]	Limit[dBm /100KHz]	Verdict
DTS-SF5	Ant1	Low	902.5	20.89	-11.58	≤-9.11	PASS
		High	926.5	21.12	-10.51	≤-8.88	PASS
DTS-SF6	Ant1	Low	902.5	20.88	-11.92	≤-9.12	PASS
		High	926.5	21.10	-10.60	≤-8.9	PASS
DTS-SF7	Ant1	Low	902.5	20.88	-11.03	≤-9.12	PASS
		High	926.5	21.12	-10.91	≤-8.88	PASS
DTS-SF8	Ant1	Low	902.5	20.87	-12.9	≤-9.13	PASS
		High	926.5	21.08	-11.35	≤-8.92	PASS
DTS-SF9	Ant1	Low	902.5	20.84	-18.84	≤-9.16	PASS
		High	926.5	21.07	-12.08	≤-8.93	PASS
DTS-SF10	Ant1	Low	902.5	20.84	-17.51	≤-9.16	PASS
		High	926.5	21.06	-12.27	≤-8.94	PASS
DTS-SF11	Ant1	Low	902.5	20.84	-19.19	≤-9.16	PASS
		High	926.5	21.06	-12.73	≤-8.94	PASS
DTS-SF12	Ant1	Low	902.5	20.84	-23.17	≤-9.16	PASS
		High	926.5	21.06	-12.69	≤-8.94	PASS

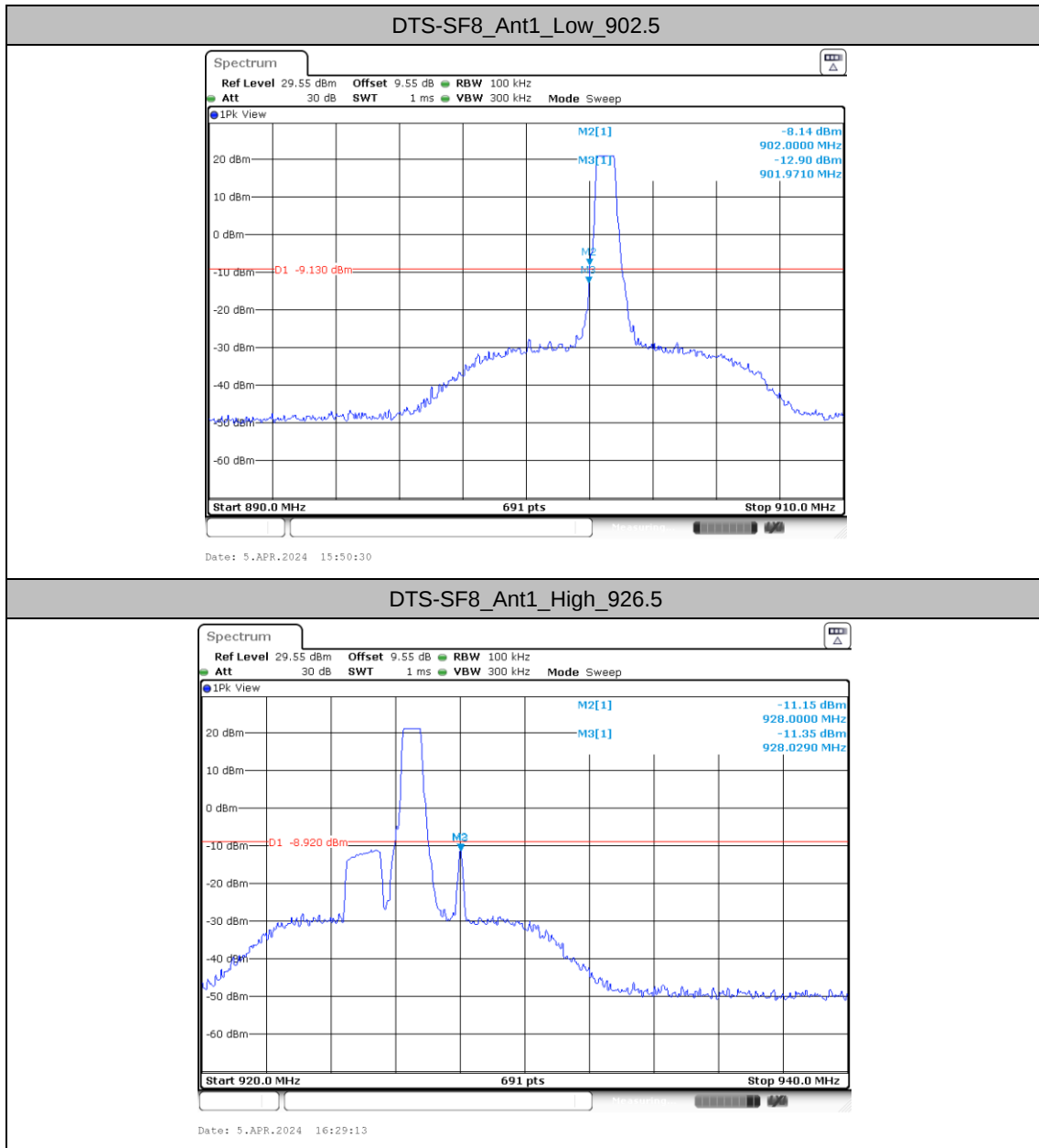


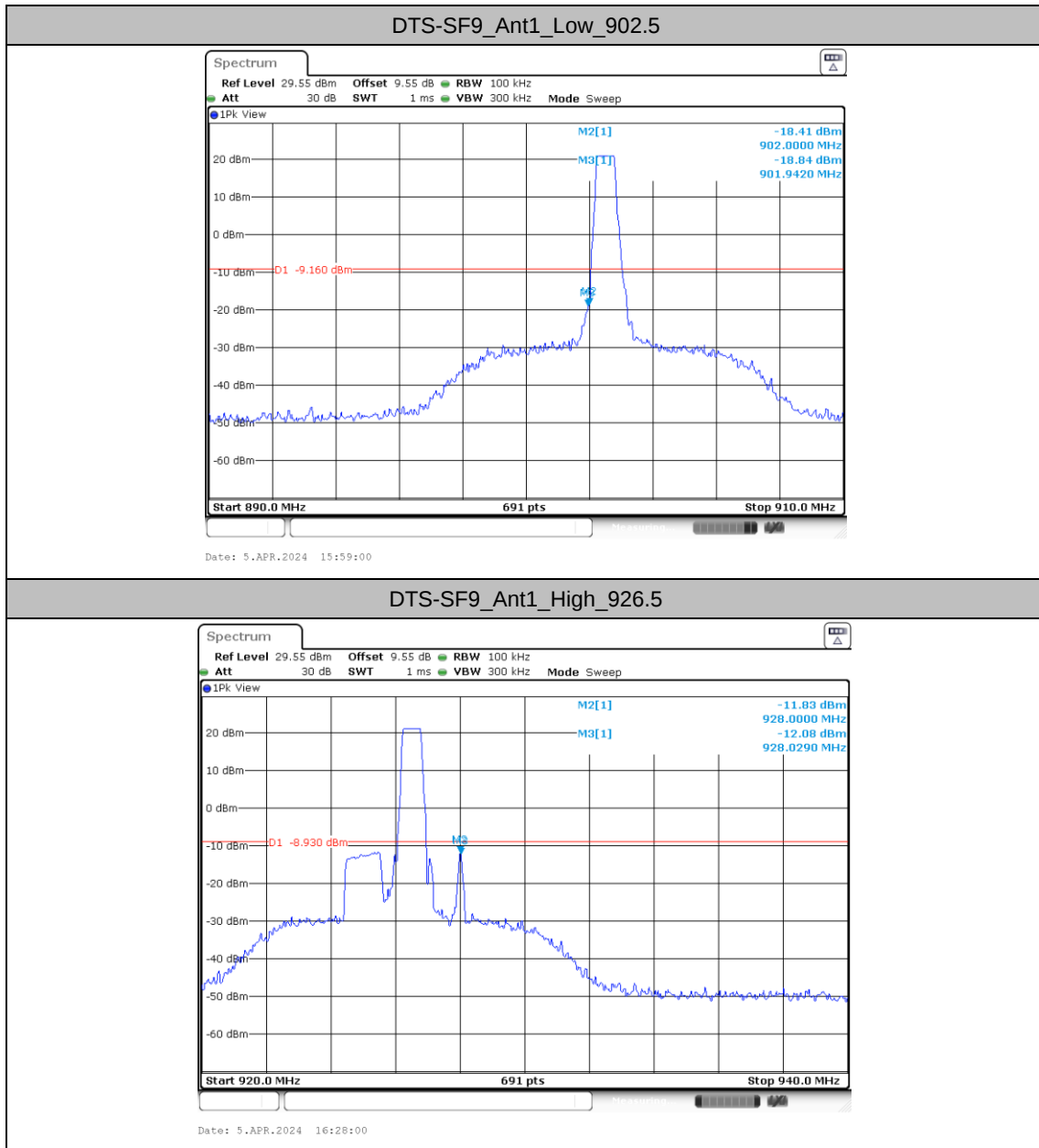
Test Graphs





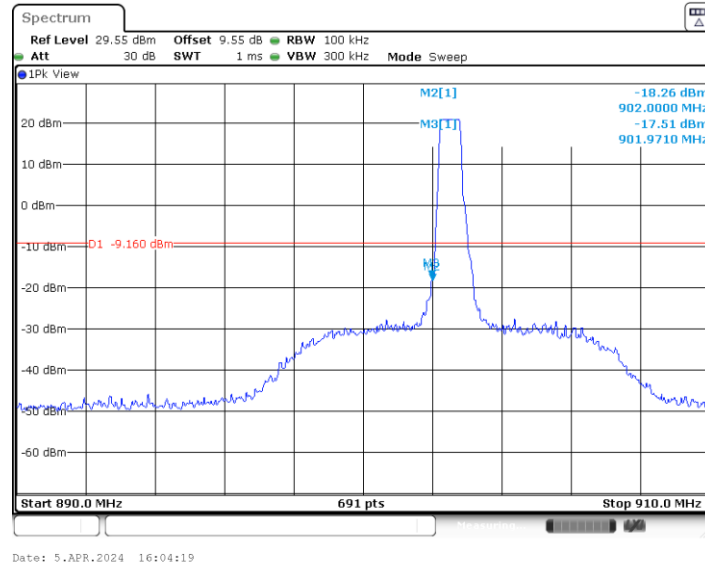




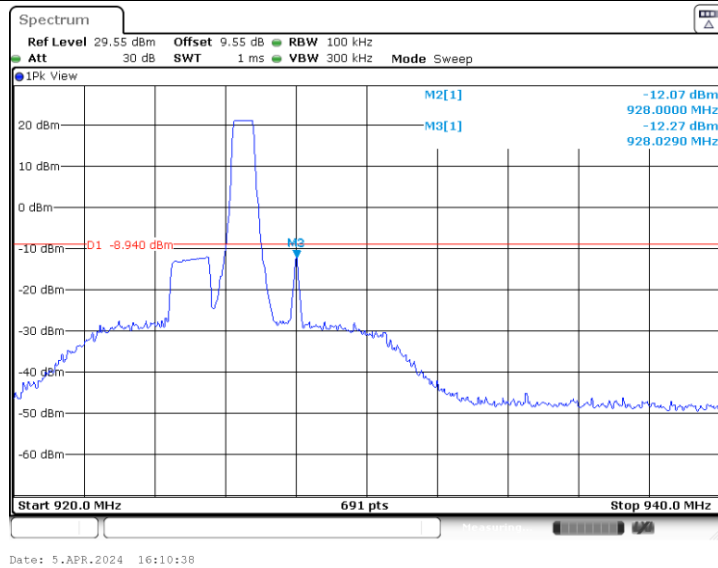




DTS-SF10_Ant1_Low_902.5

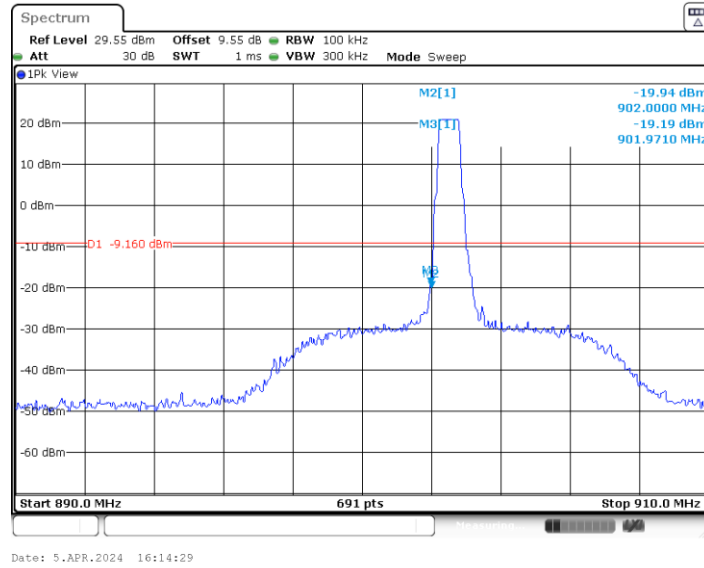


DTS-SF10_Ant1_High_926.5

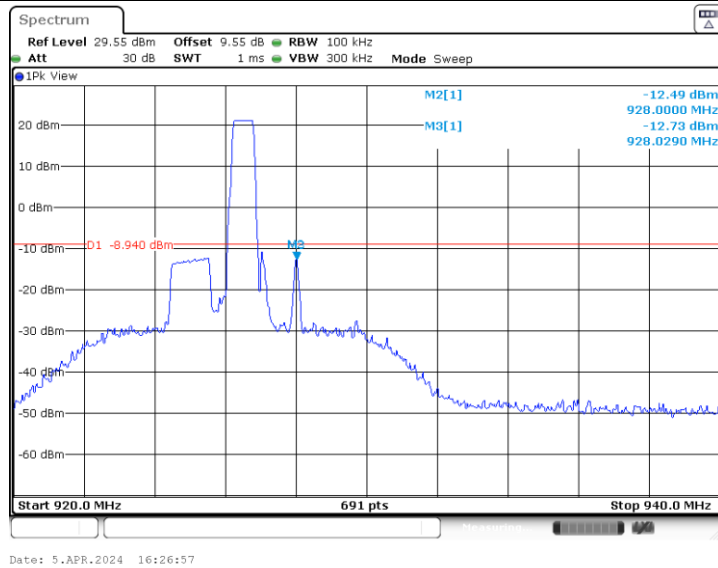




DTS-SF11_Ant1_Low_902.5

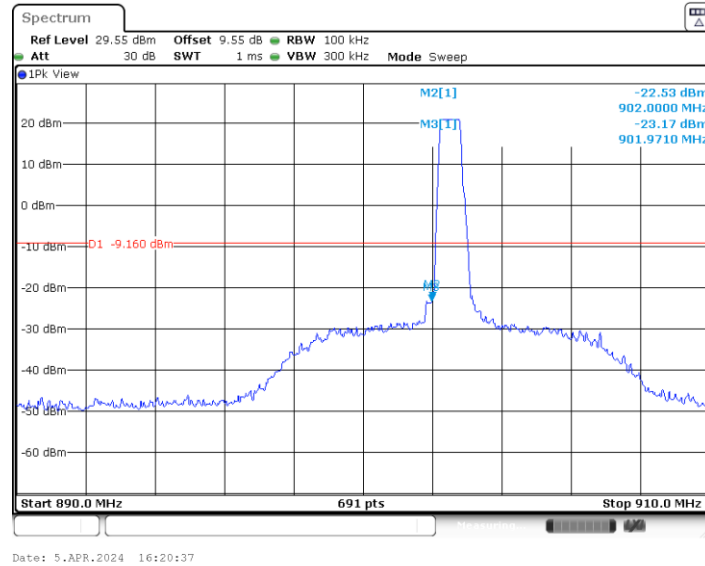


DTS-SF11_Ant1_High_926.5

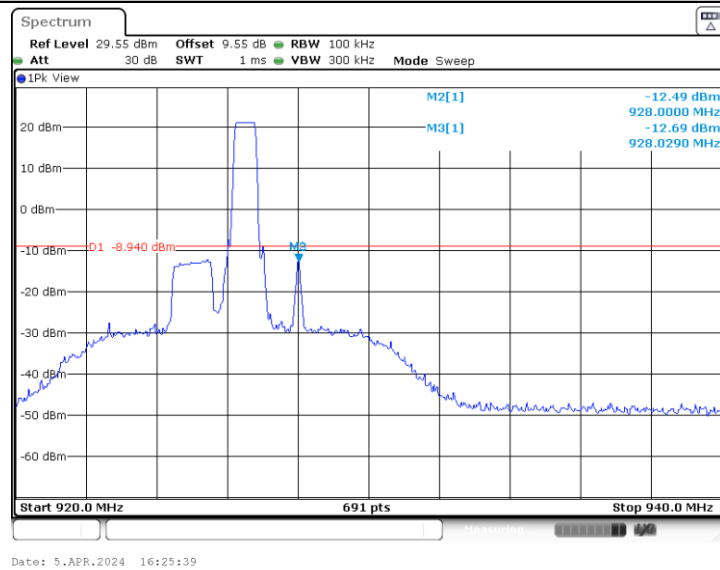




DTS-SF12_Ant1_Low_902.5



DTS-SF12_Ant1_High_926.5





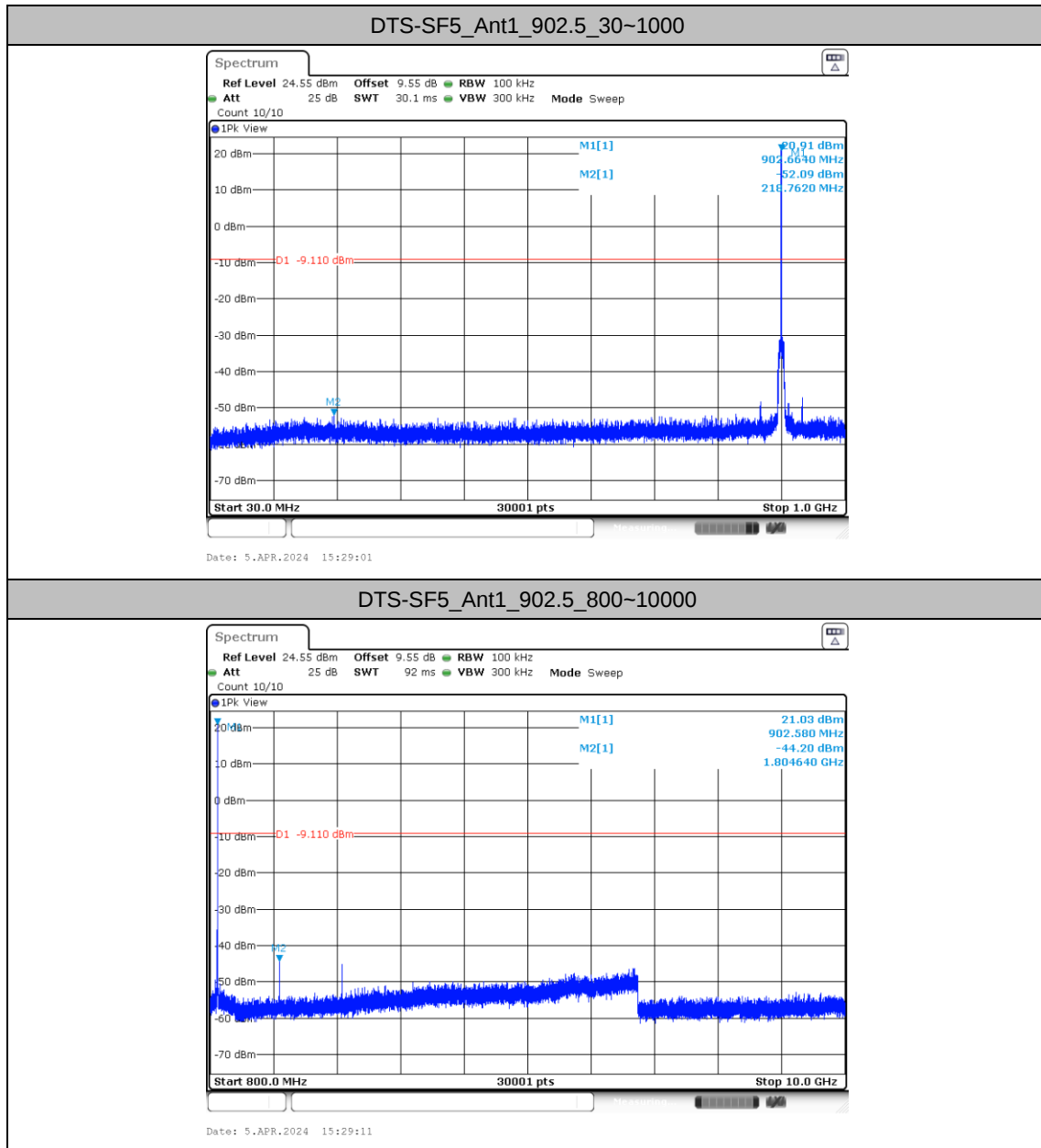
Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm/100KHz]	Result [dBm/100KHz]	Limit [dBm/100KHz]	Verdict
DTS-SF5	Ant1	902.5	30~1000	20.89	-52.09	≤-9.11	PASS
			800~10000	20.89	-44.2	≤-9.11	PASS
		914.5	30~1000	20.82	-50.88	≤-9.18	PASS
			800~10000	20.82	-45.4	≤-9.18	PASS
		926.5	30~1000	21.12	-51.66	≤-8.88	PASS
			800~10000	21.12	-44.33	≤-8.88	PASS
DTS-SF6	Ant1	902.5	30~1000	20.88	-51.54	≤-9.12	PASS
			800~10000	20.88	-44.27	≤-9.12	PASS
		914.5	30~1000	20.83	-51.42	≤-9.17	PASS
			800~10000	20.83	-44.71	≤-9.17	PASS
		926.5	30~1000	21.10	-50.74	≤-8.9	PASS
			800~10000	21.10	-44.65	≤-8.9	PASS
DTS-SF7	Ant1	902.5	30~1000	20.88	-51.66	≤-9.12	PASS
			800~10000	20.88	-43.25	≤-9.12	PASS
		914.5	30~1000	20.83	-51.4	≤-9.17	PASS
			800~10000	20.83	-44.29	≤-9.17	PASS
		926.5	30~1000	21.12	-51.76	≤-8.88	PASS
			800~10000	21.12	-44.5	≤-8.88	PASS
DTS-SF8	Ant1	902.5	30~1000	20.87	-51.14	≤-9.13	PASS
			800~10000	20.87	-43.83	≤-9.13	PASS
		914.5	30~1000	20.79	-51.52	≤-9.21	PASS
			800~10000	20.79	-44.98	≤-9.21	PASS
		926.5	30~1000	21.08	-51.29	≤-8.92	PASS
			800~10000	21.08	-44.31	≤-8.92	PASS
DTS-SF9	Ant1	902.5	30~1000	20.84	-50.82	≤-9.16	PASS
			800~10000	20.84	-43.79	≤-9.16	PASS
		914.5	30~1000	20.76	-51.19	≤-9.24	PASS
			800~10000	20.76	-45.15	≤-9.24	PASS
		926.5	30~1000	21.07	-51.69	≤-8.93	PASS
			800~10000	21.07	-44.38	≤-8.93	PASS
DTS-SF10	Ant1	902.5	30~1000	20.84	-51.91	≤-9.16	PASS
			800~10000	20.84	-43.63	≤-9.16	PASS
		914.5	30~1000	20.78	-51.56	≤-9.22	PASS
			800~10000	20.78	-44.33	≤-9.22	PASS
		926.5	30~1000	21.06	-51.18	≤-8.94	PASS
			800~10000	21.06	-44.41	≤-8.94	PASS
DTS-SF11	Ant1	902.5	30~1000	20.84	-50.68	≤-9.16	PASS
			800~10000	20.84	-43.81	≤-9.16	PASS
		914.5	30~1000	20.76	-50.77	≤-9.24	PASS
			800~10000	20.76	-44.81	≤-9.24	PASS
		926.5	30~1000	21.06	-51.38	≤-8.94	PASS
			800~10000	21.06	-44.1	≤-8.94	PASS
DTS-SF12	Ant1	902.5	30~1000	20.84	-51.58	≤-9.16	PASS
			800~10000	20.84	-43.31	≤-9.16	PASS
		914.5	30~1000	20.77	-51.17	≤-9.23	PASS
			800~10000	20.77	-44.57	≤-9.23	PASS
		926.5	30~1000	21.06	-51.06	≤-8.94	PASS
			800~10000	21.06	-43.67	≤-8.94	PASS

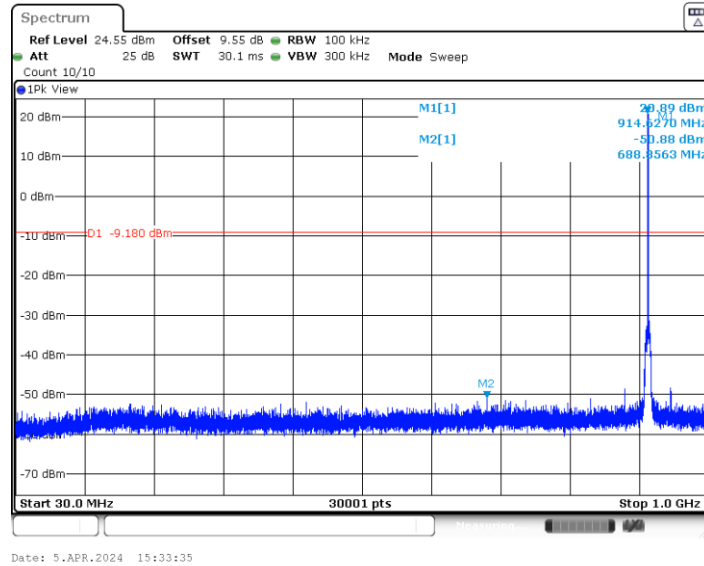


Test Graphs

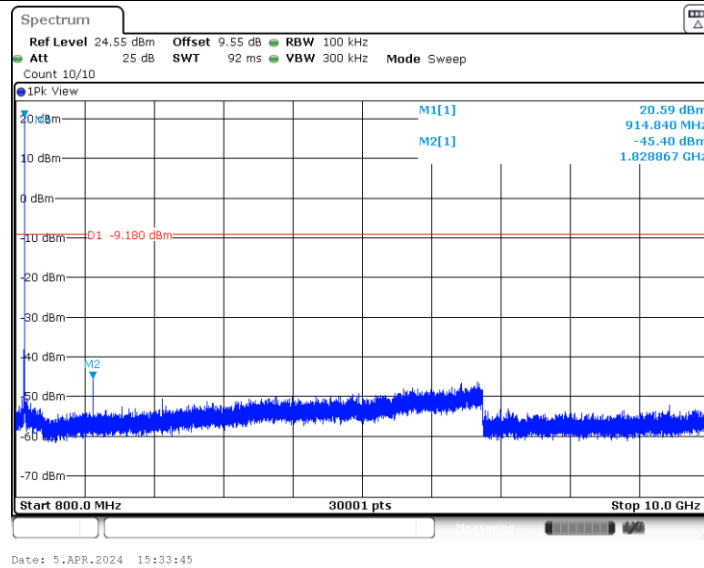




DTS-SF5_Ant1_914.5_30~1000

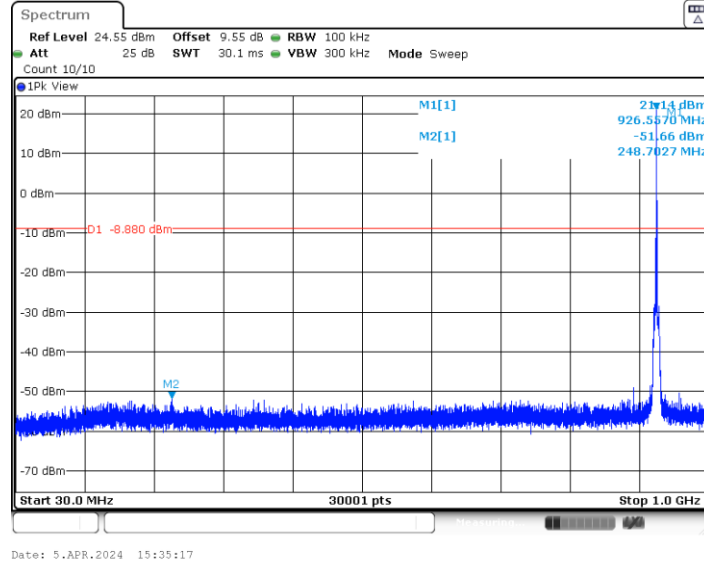


DTS-SF5_Ant1_914.5_800~10000

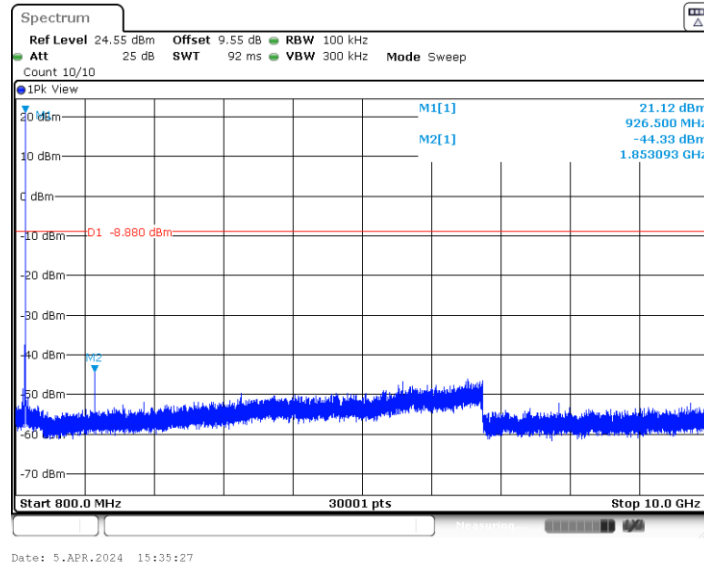




DTS-SF5_Ant1_926.5_30~1000

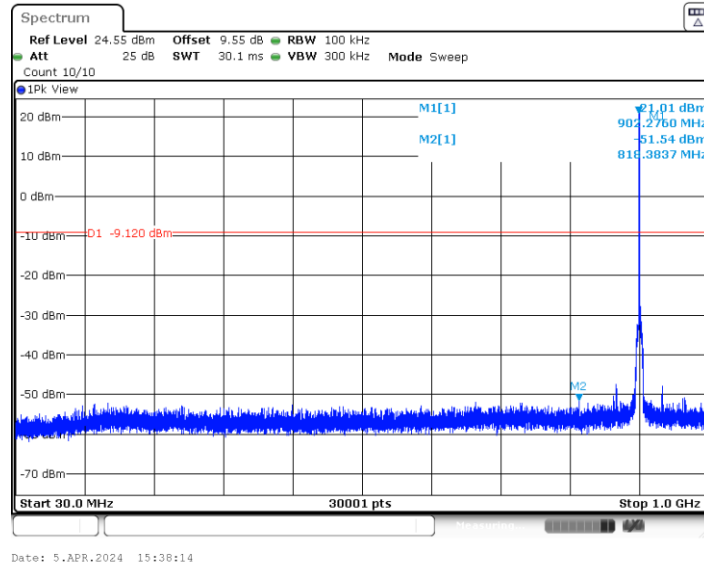


DTS-SF5_Ant1_926.5_800~10000

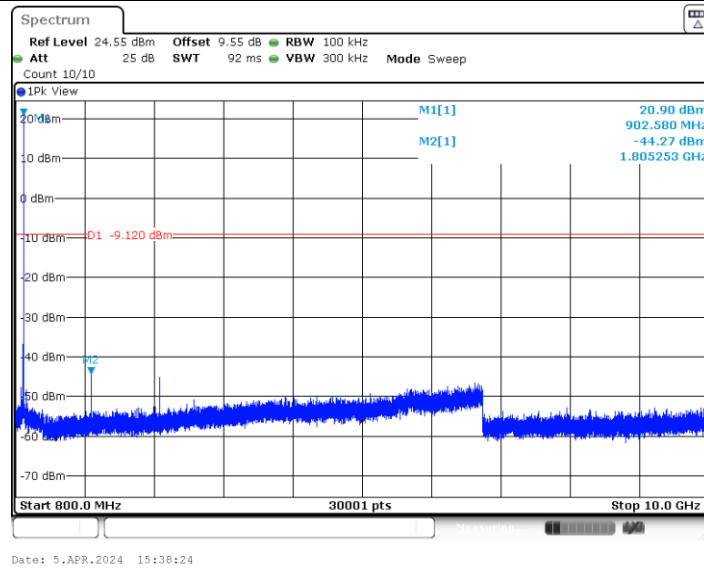




DTS-SF6_Ant1_902.5_30~1000

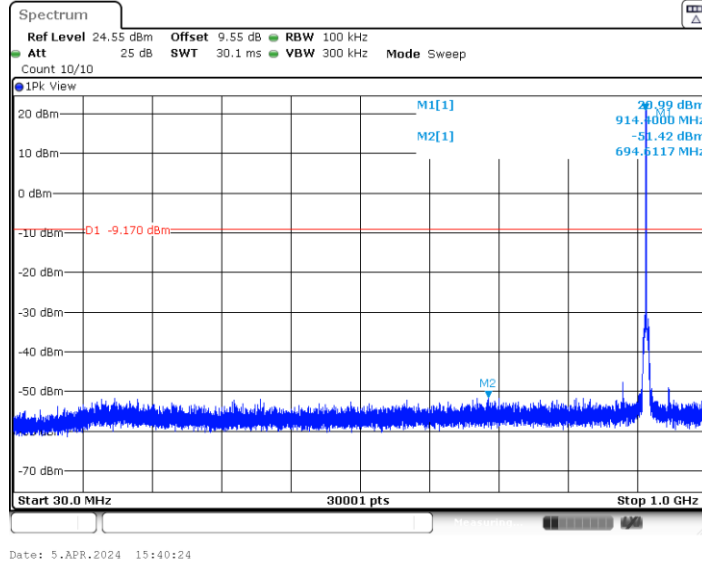


DTS-SF6_Ant1_902.5_800~10000

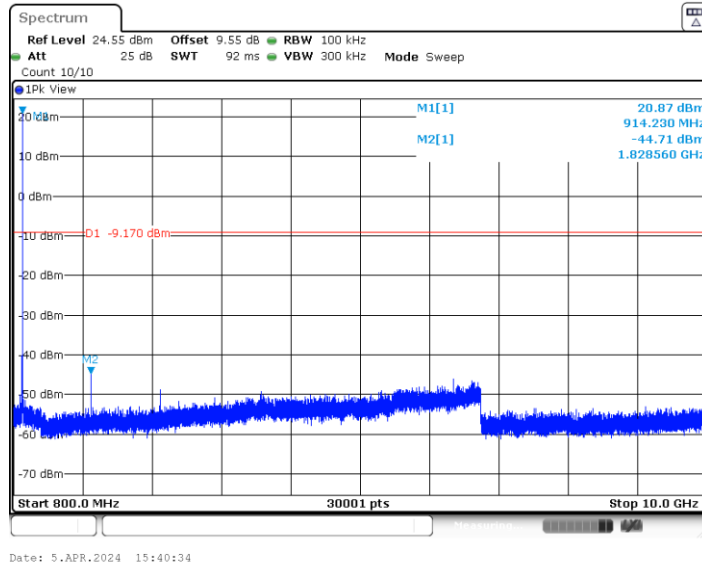




DTS-SF6_Ant1_914.5_30~1000

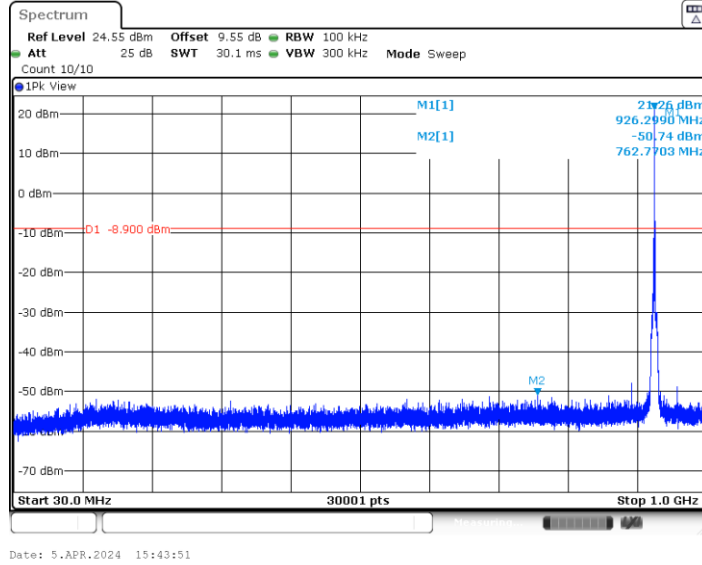


DTS-SF6_Ant1_914.5_800~10000

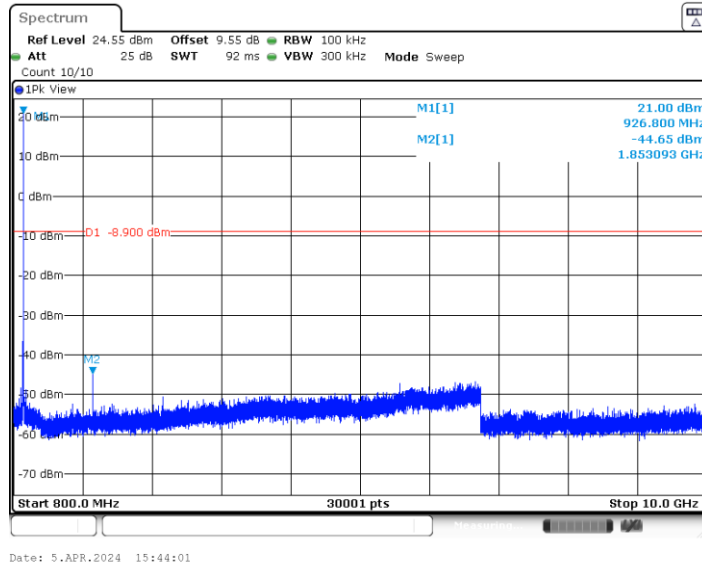




DTS-SF6_Ant1_926.5_30~1000

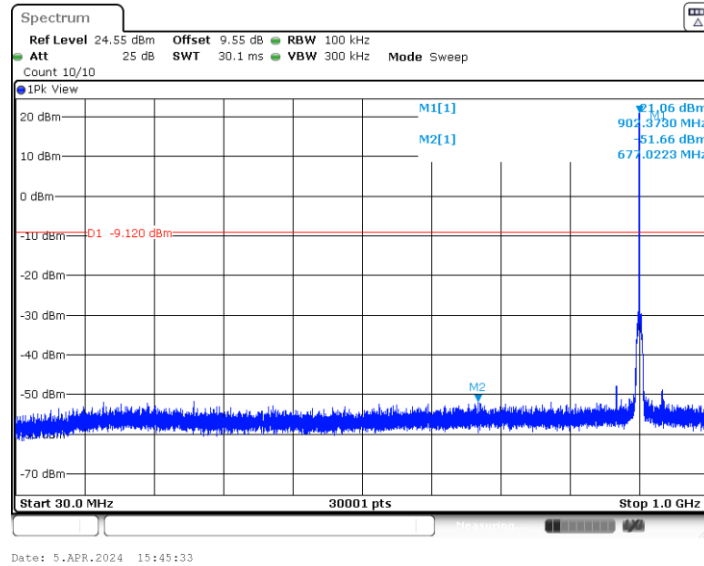


DTS-SF6_Ant1_926.5_800~10000

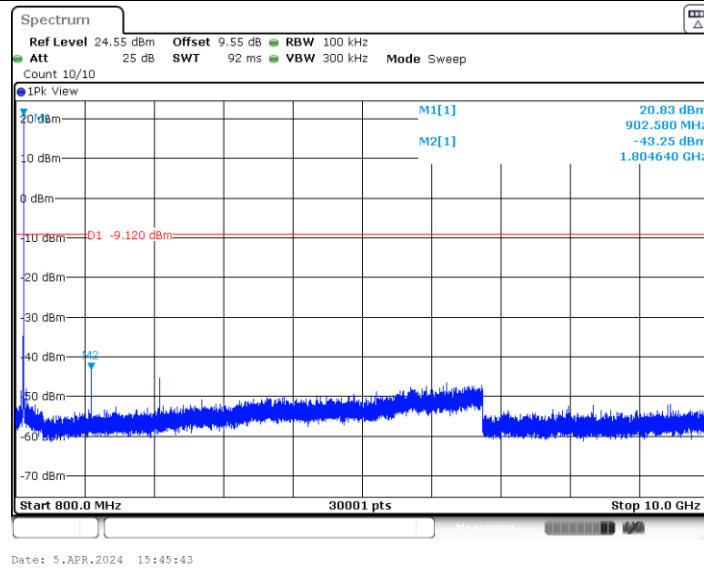




DTS-SF7_Ant1_902.5_30~1000

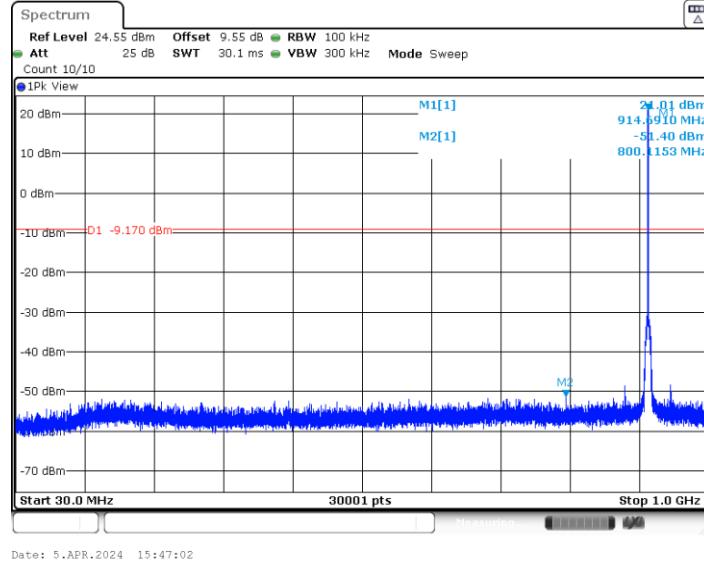


DTS-SF7_Ant1_902.5_800~10000

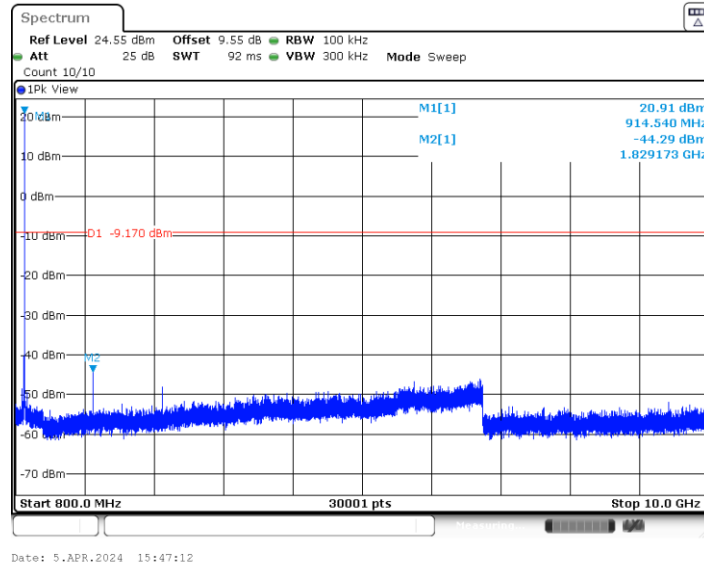




DTS-SF7_Ant1_914.5_30~1000

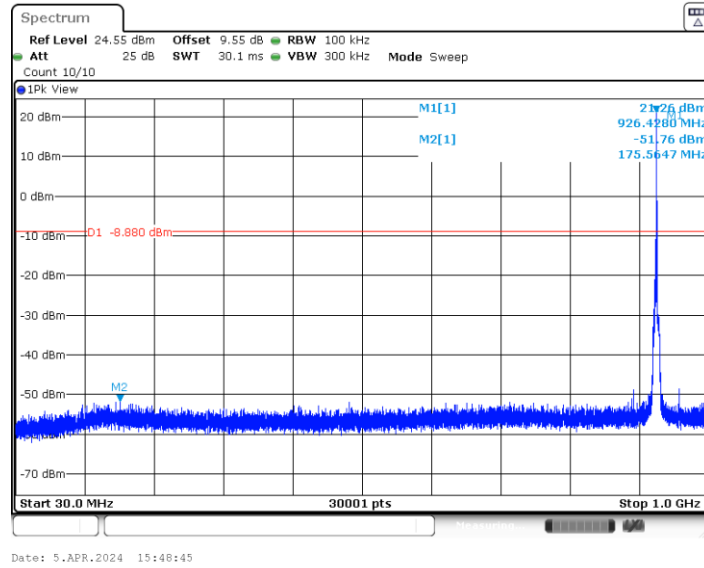


DTS-SF7_Ant1_914.5_800~10000

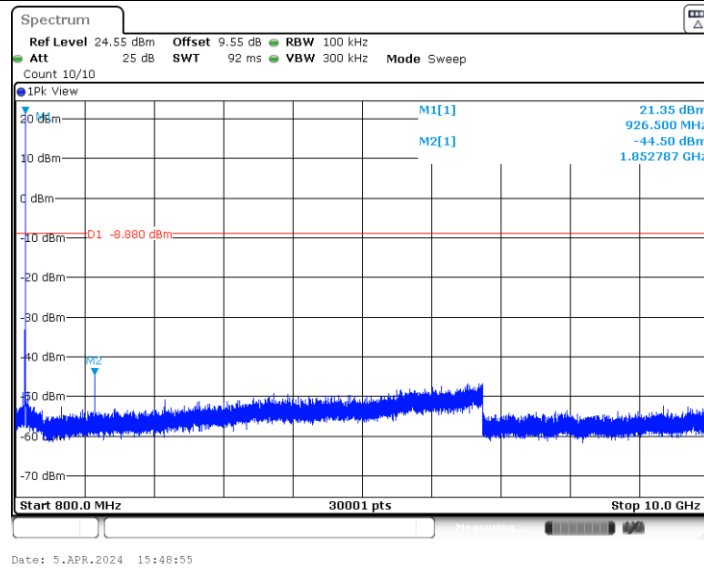




DTS-SF7_Ant1_926.5_30~1000

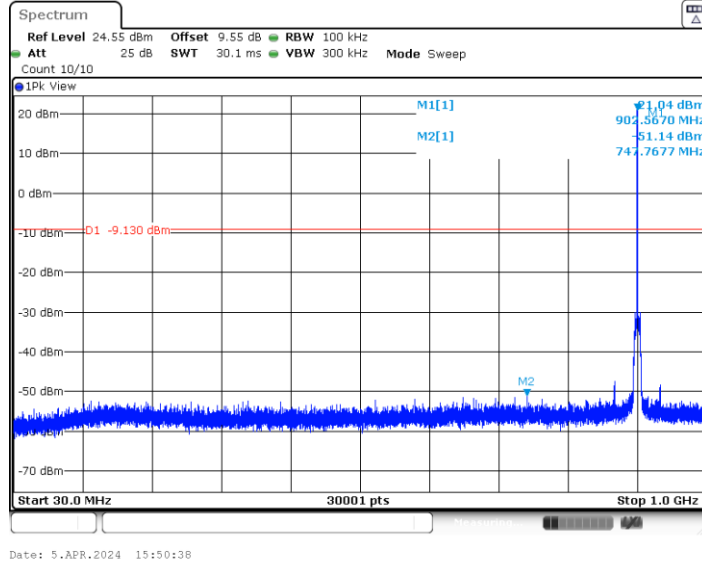


DTS-SF7_Ant1_926.5_800~10000

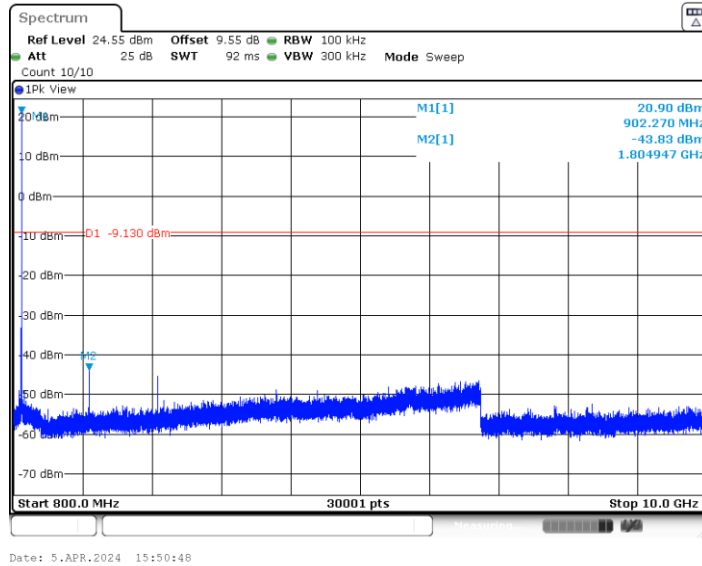




DTS-SF8_Ant1_902.5_30~1000

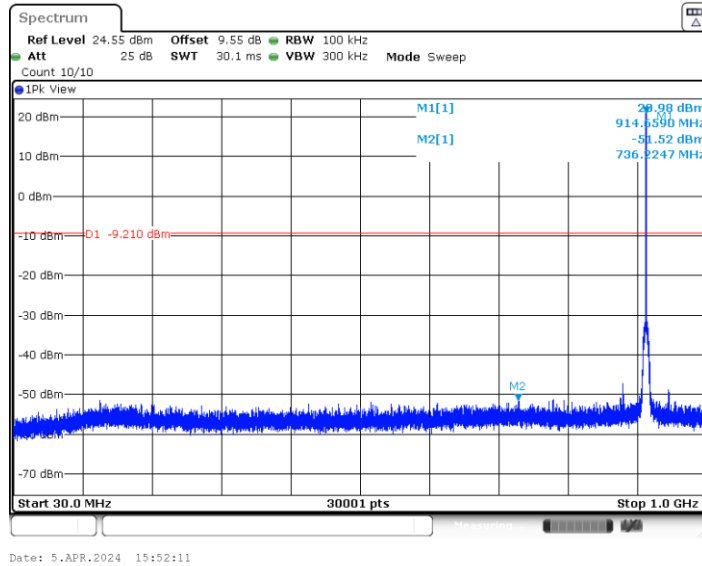


DTS-SF8_Ant1_902.5_800~10000

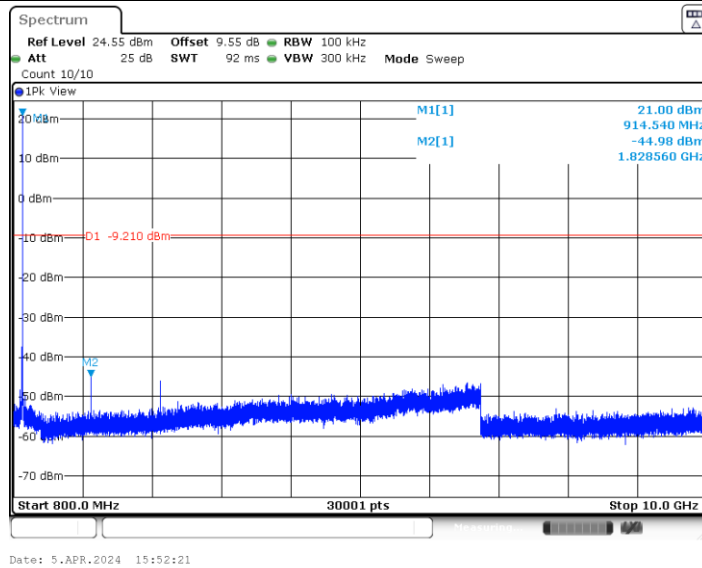




DTS-SF8_Ant1_914.5_30~1000

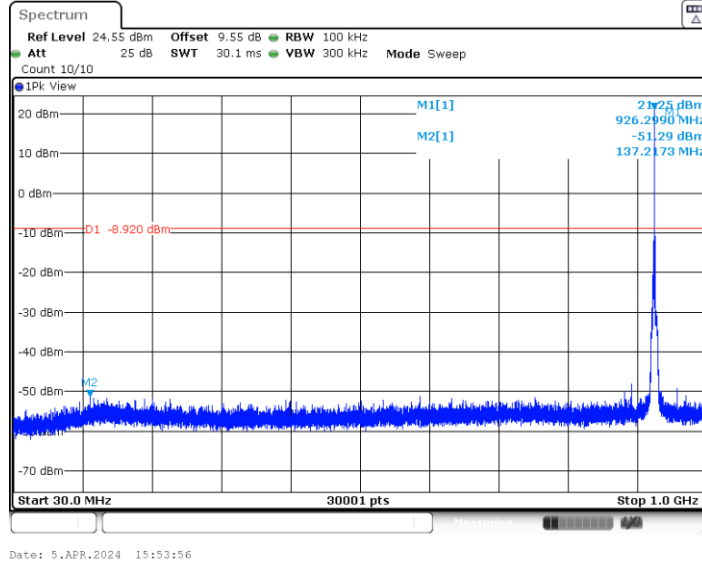


DTS-SF8_Ant1_914.5_800~10000

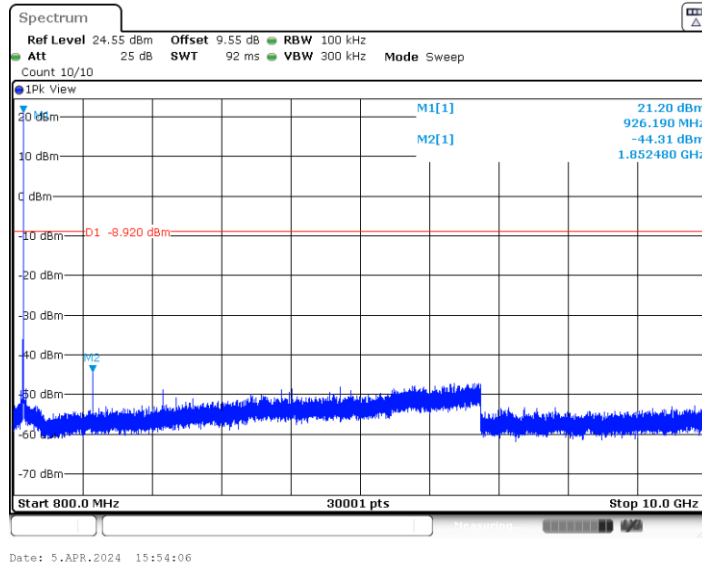




DTS-SF8_Ant1_926.5_30~1000

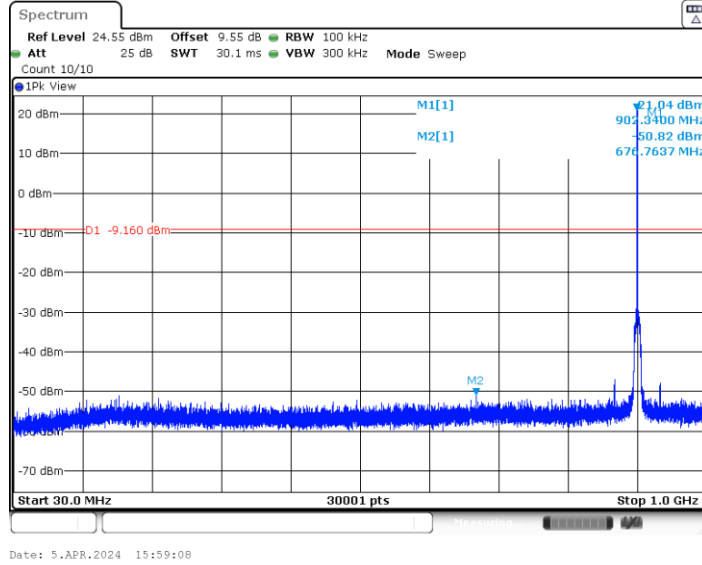


DTS-SF8_Ant1_926.5_800~10000

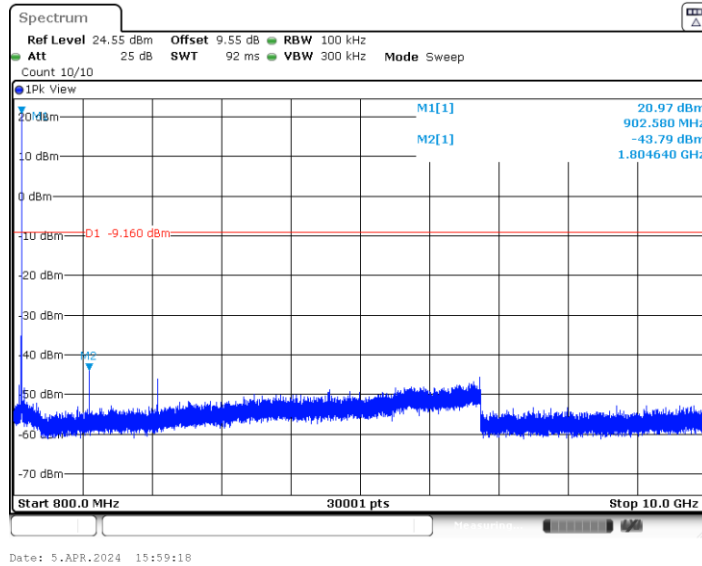




DTS-SF9_Ant1_902.5_30~1000

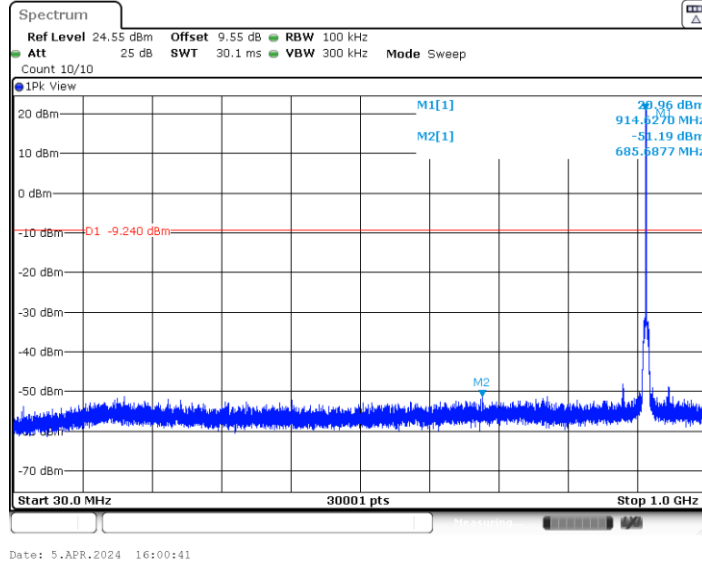


DTS-SF9_Ant1_902.5_800~10000

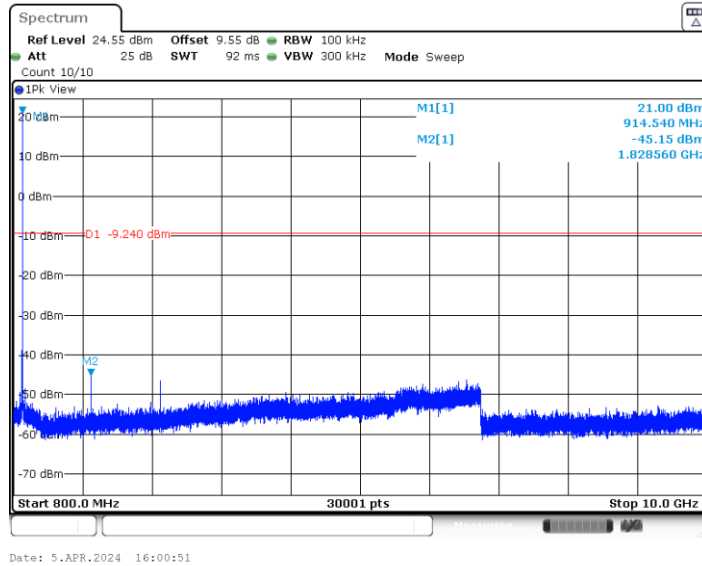




DTS-SF9_Ant1_914.5_30~1000

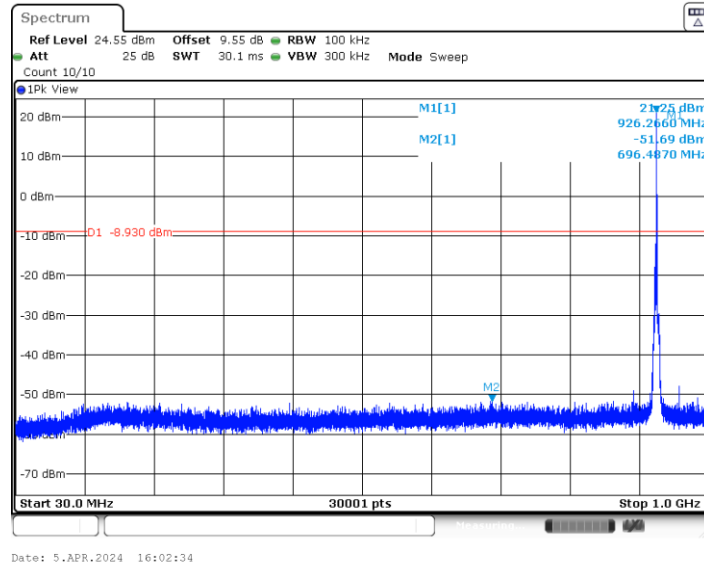


DTS-SF9_Ant1_914.5_800~10000

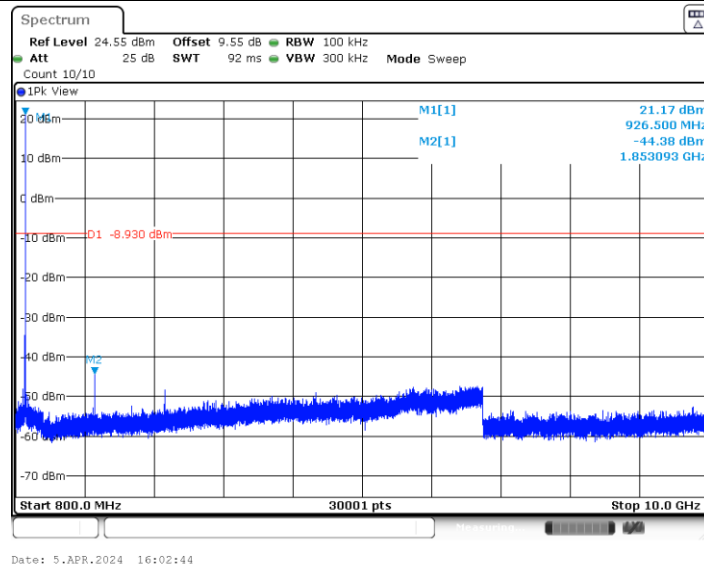




DTS-SF9_Ant1_926.5_30~1000

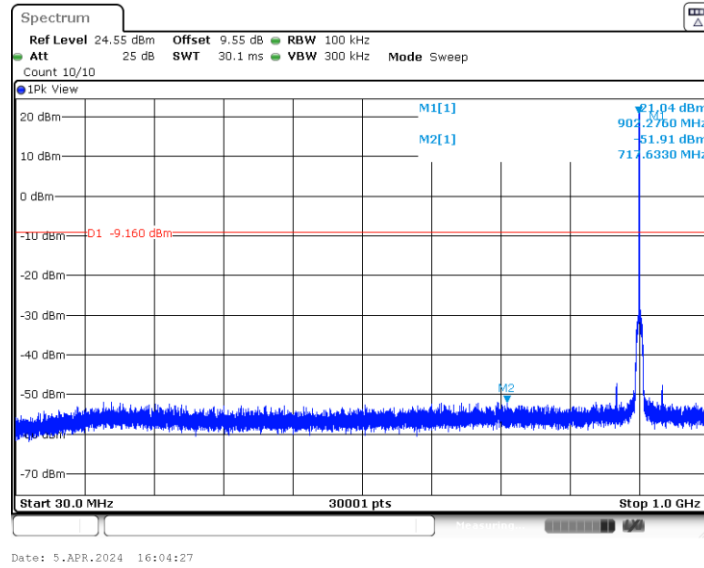


DTS-SF9_Ant1_926.5_800~10000

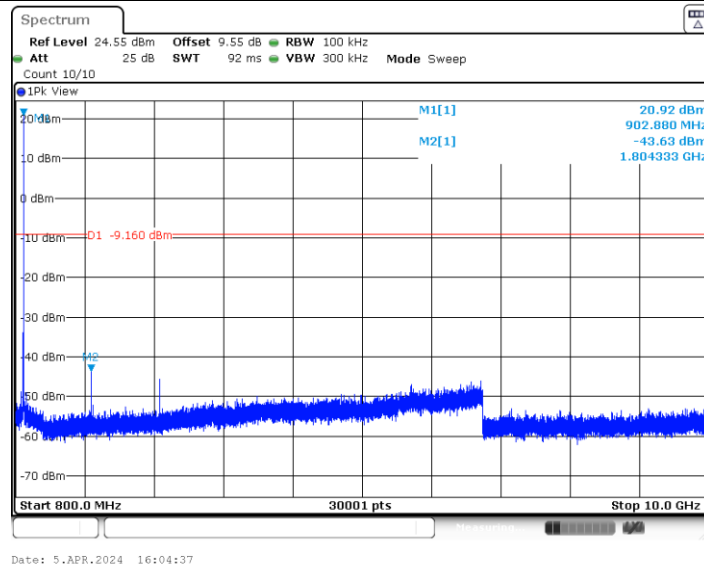




DTS-SF10_Ant1_902.5_30~1000

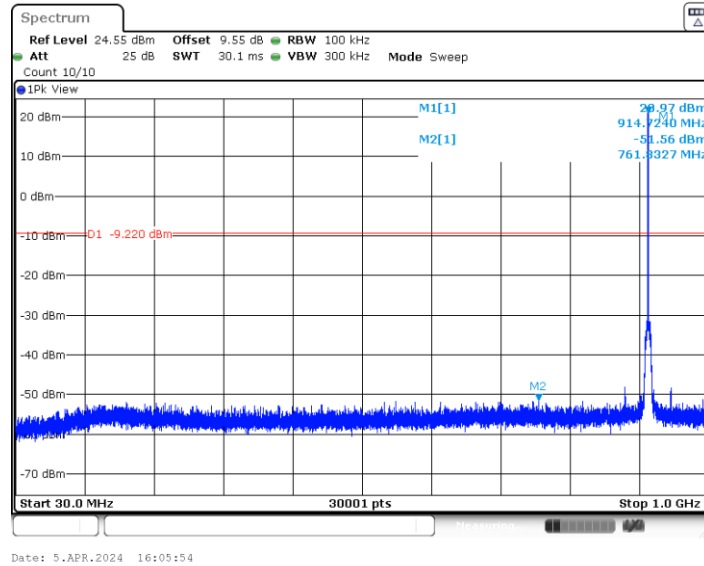


DTS-SF10_Ant1_902.5_800~10000

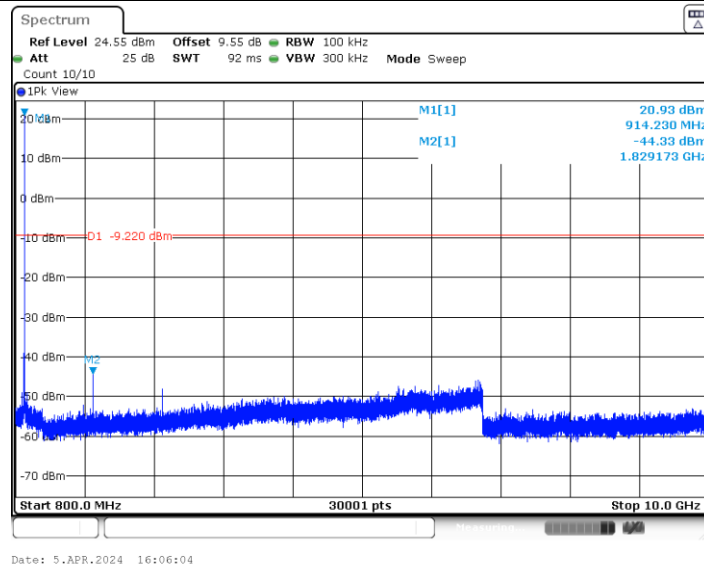




DTS-SF10_Ant1_914.5_30~1000

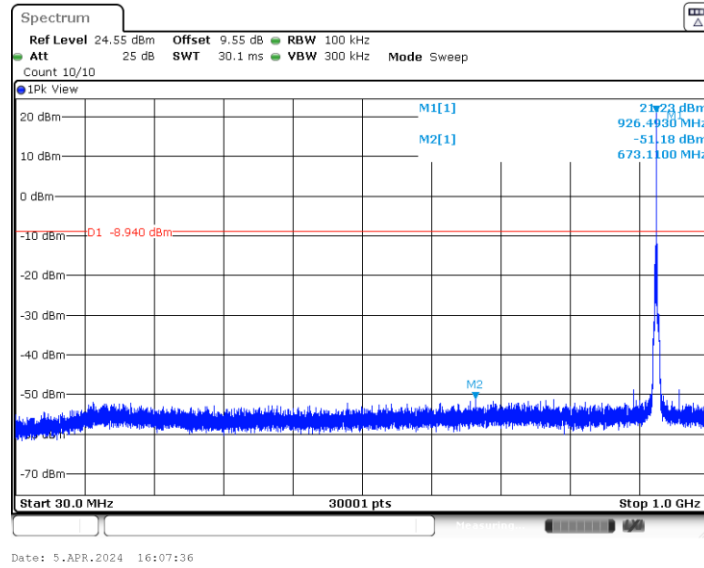


DTS-SF10_Ant1_914.5_800~10000

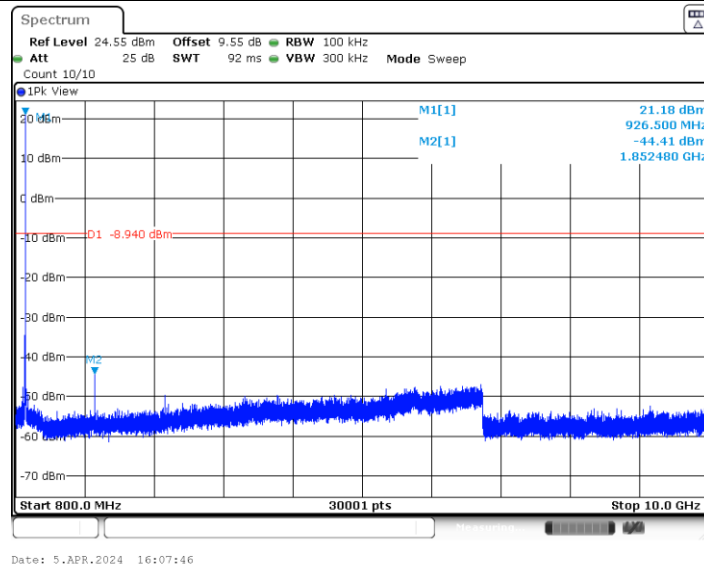




DTS-SF10_Ant1_926.5_30~1000

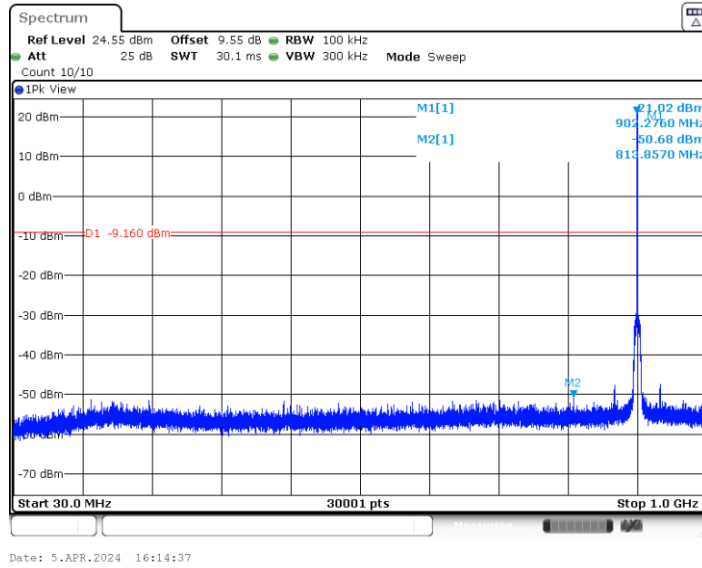


DTS-SF10_Ant1_926.5_800~10000

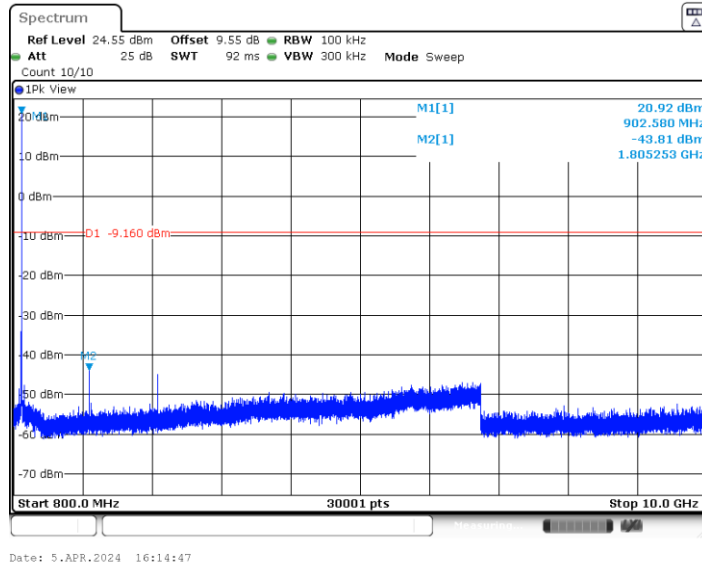


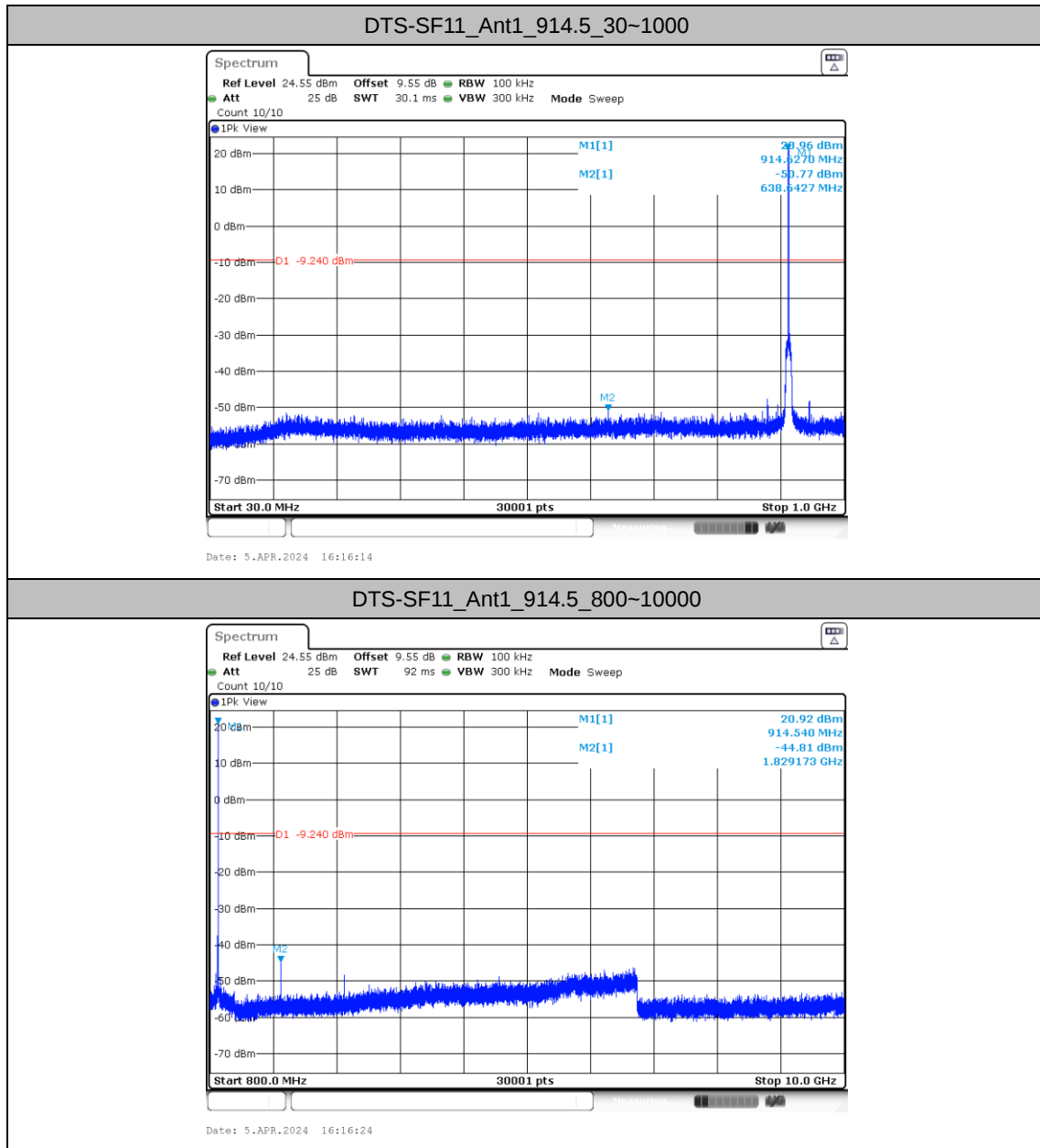


DTS-SF11_Ant1_902.5_30~1000



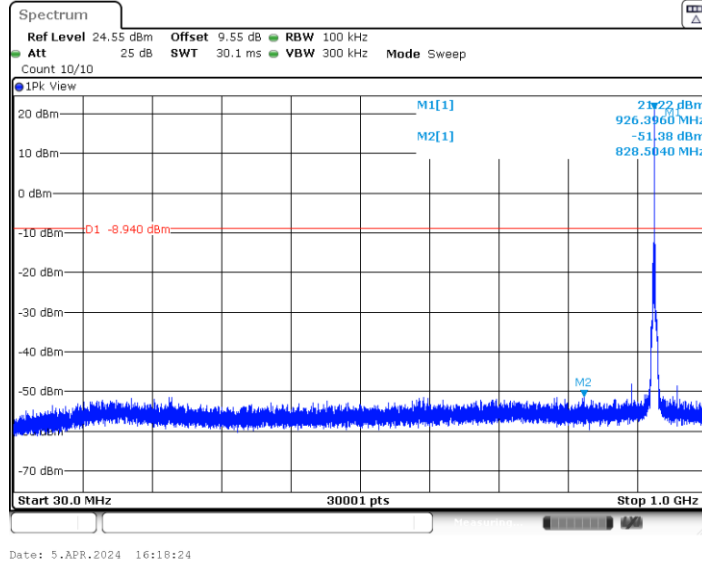
DTS-SF11_Ant1_902.5_800~10000



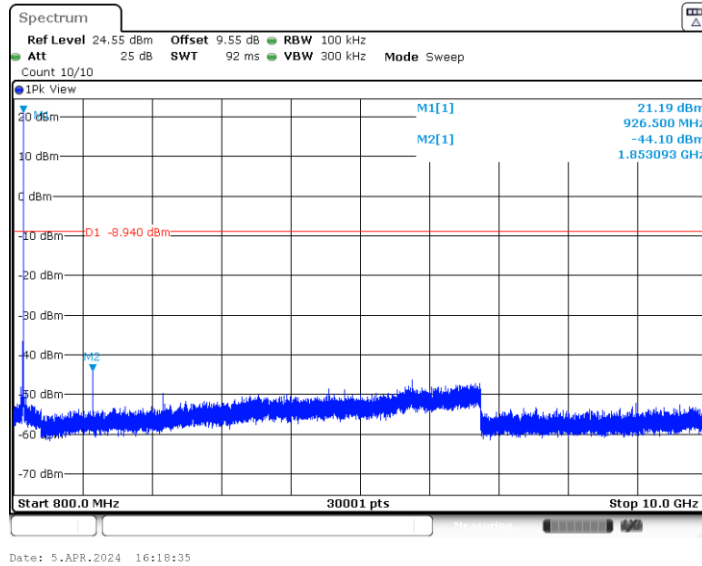




DTS-SF11_Ant1_926.5_30~1000

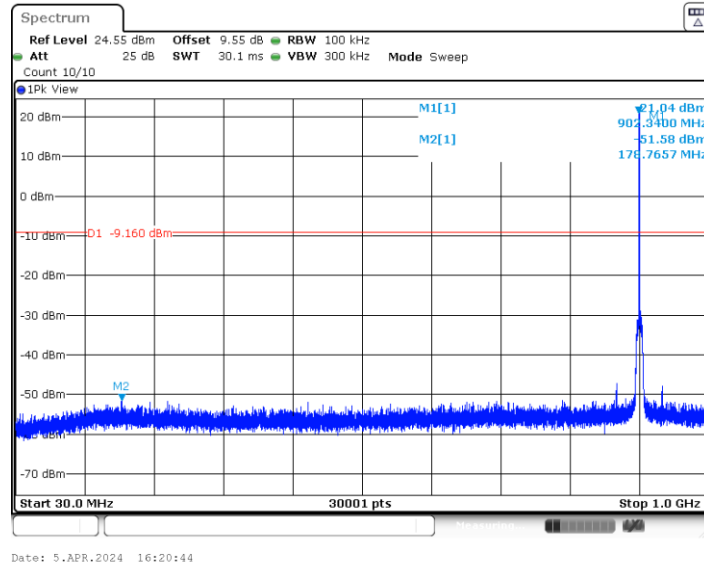


DTS-SF11_Ant1_926.5_800~10000

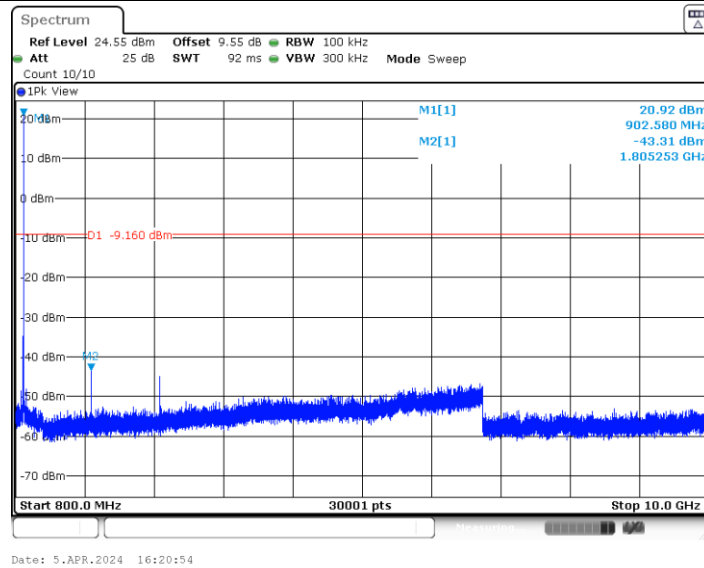




DTS-SF12_Ant1_902.5_30~1000

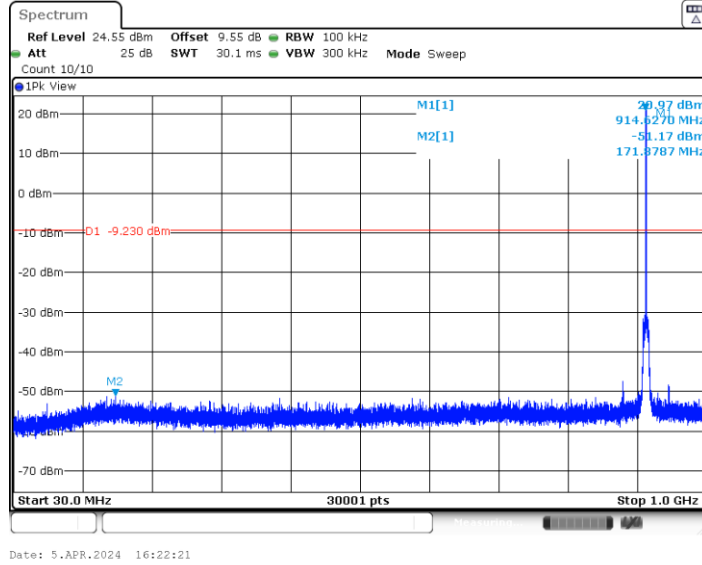


DTS-SF12_Ant1_902.5_800~10000

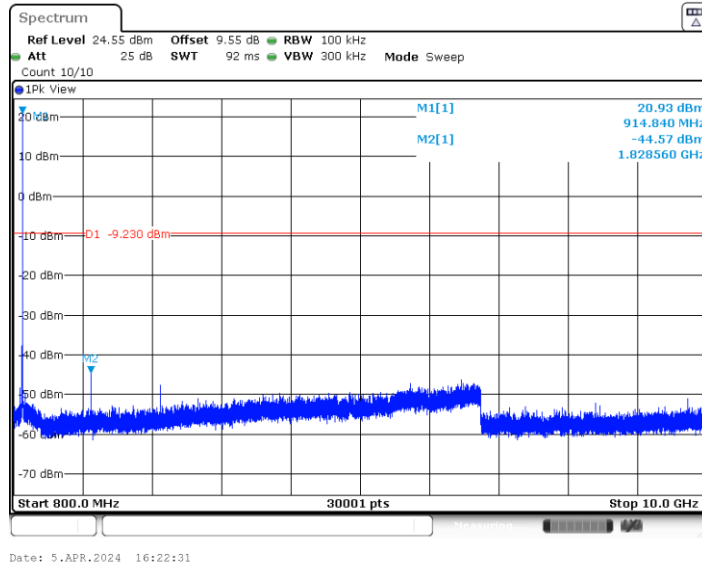




DTS-SF12_Ant1_914.5_30~1000

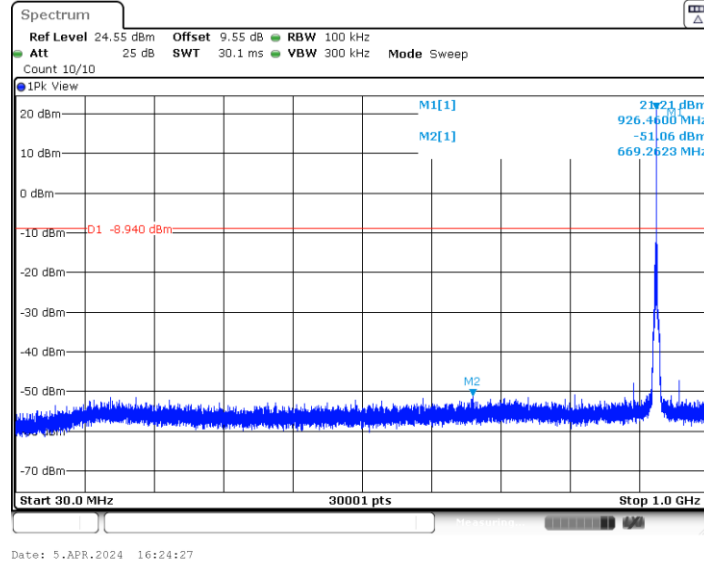


DTS-SF12_Ant1_914.5_800~10000

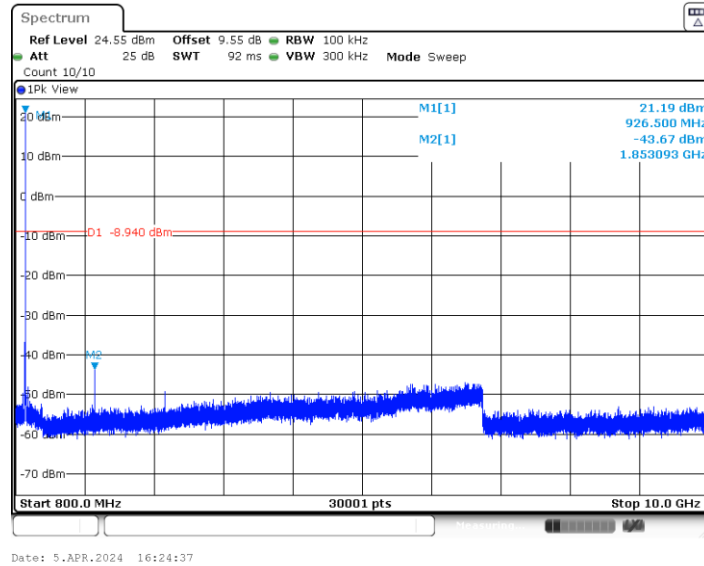




DTS-SF12_Ant1_926.5_30~1000

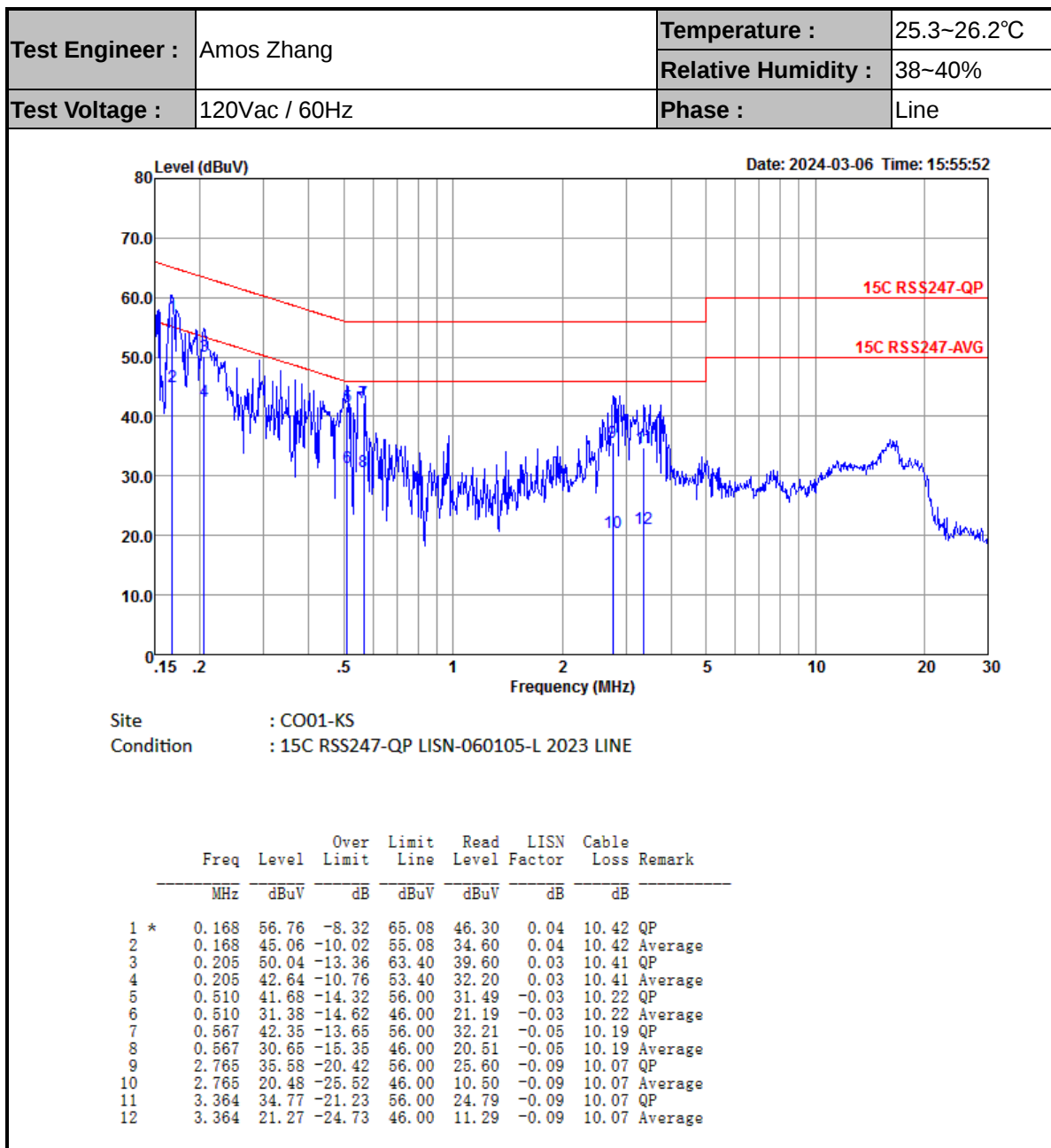


DTS-SF12_Ant1_926.5_800~10000



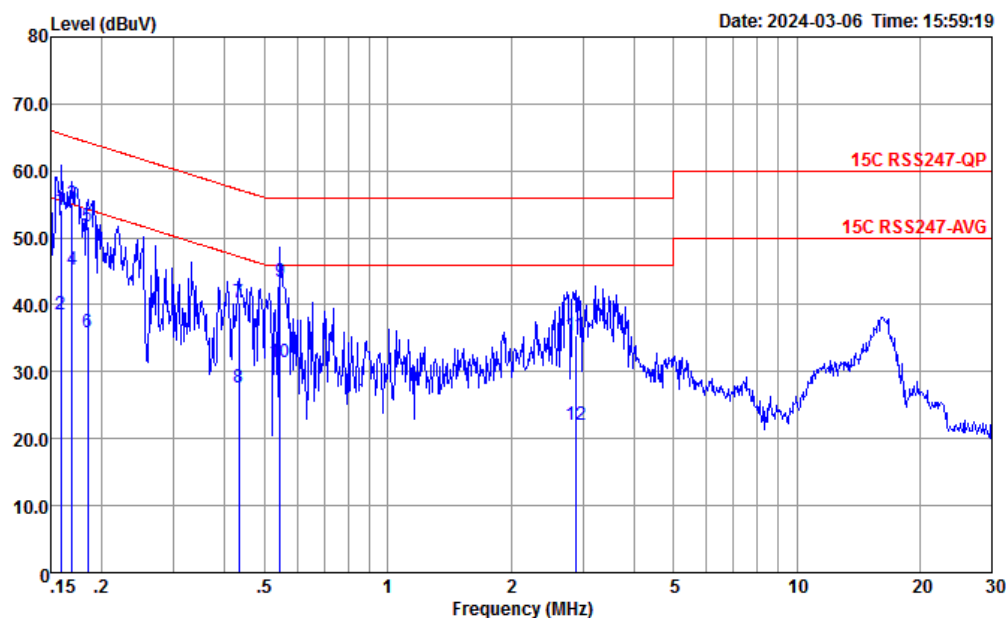


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.159	54.06	-11.46	65.52	43.60	0.04	10.42	QP
2	0.159	38.66	-16.86	55.52	28.20	0.04	10.42	Average
3	0.169	55.06	-9.93	64.99	44.60	0.04	10.42	QP
4 *	0.169	45.16	-9.83	54.99	34.70	0.04	10.42	Average
5	0.184	51.66	-12.62	64.28	41.20	0.05	10.41	QP
6	0.184	35.96	-18.32	54.28	25.50	0.05	10.41	Average
7	0.433	40.40	-16.80	57.20	30.20	-0.06	10.26	QP
8	0.433	27.70	-19.50	47.20	17.50	-0.06	10.26	Average
9	0.546	43.43	-12.57	56.00	33.30	-0.07	10.20	QP
10	0.546	31.33	-14.67	46.00	21.20	-0.07	10.20	Average
11	2.884	35.44	-20.56	56.00	25.50	-0.13	10.07	QP
12	2.884	22.14	-23.86	46.00	12.20	-0.13	10.07	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

Remark: For RSE different Spread Factor, only the test data of SF12 is shown in the report according to the maximum power.

902.5~926.5MHz

LORA DTS SF=12 500KHZ (Band Edge @ 3m)

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable 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)
902.5MHz		361.74	36.98	-9.02	46	45.68	20.61	2.77	32.08	-	-	P	H
		903	107.03	--	--	104.72	29.2	4.38	31.27	-	-	P	H
		390.84	35.2	-10.80	46	43.02	21.39	2.89	32.10	-	-	P	V
		903.00	114.35	--	--	112.04	29.2	4.38	31.27	-	-	P	V
914.5MHz		398.6	39.59	-6.41	46	47.08	21.7	2.92	32.11	-	-	P	H
		914.64	108.29	--	--	105.53	29.55	4.4	31.19	-	-	P	H
		457.77	35.87	-10.13	46	41.86	23.04	3.12	32.15	-	-	P	V
		914.64	116.39	--	--	113.63	29.55	4.4	31.19	-	-	P	V
926.5MHz		398.6	38.88	-7.12	46	46.37	21.7	2.92	32.11	-	-	P	H
		926.28	108.76	--	--	105.49	29.96	4.43	31.12	-	-	P	H
		389.87	36.73	-9.27	46	44.6	21.35	2.88	32.1	-	-	P	V
		926.28	116.69	--	--	113.42	29.96	4.43	31.12	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



LORA DTS SF=12 500KHZ (Harmonic @ 3m)

	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
902.5MHz		1028.80	42.49	-31.51	74	74.07	28.91	4.65	65.14	-	-	P	H
		2708.20	51.89	-22.11	74	76.80	33.05	7.58	65.54	333	243	P	H
		2708.20	50.19	-3.81	54	75.10	33.05	7.58	65.54	333	243	A	H
		5416.00	49.86	-24.14	74	69.28	35.24	10.79	65.45	-	-	P	H
		1047.40	47.99	-26.01	74	79.86	28.59	4.69	65.15	-	-	P	V
		2708.20	47.60	-26.40	74	72.51	33.05	7.58	65.54	-	-	P	V
		5415.40	52.19	-21.81	74	71.61	35.24	10.79	65.45	250	310	P	V
		5415.40	48.78	-5.22	54	68.2	35.24	10.79	65.45	250	310	A	V
914.5MHz		1057.60	45.10	-28.90	74	77.13	28.42	4.71	65.16	-	-	P	H
		2744.20	51.46	-22.54	74	76.50	32.83	7.63	65.50	326	248	P	H
		2744.20	50.06	-3.94	54	75.10	32.83	7.63	65.50	326	248	A	H
		5487.40	52.80	-35.49	88.29	72.40	34.95	10.87	65.42	-	-	P	H
		1058.20	50.79	-23.21	74	82.83	28.41	4.71	65.16	100	335	P	V
		1058.20	44.46	-9.54	54	76.50	28.41	4.71	65.16	100	335	A	V
		2743.00	48.68	-25.32	74	73.71	32.84	7.63	65.50	-	-	P	V
		5486.20	54.71	-41.68	96.39	74.30	34.96	10.87	65.42	-	-	P	V
926.5MHz		1059.40	47.87	-26.13	74	79.92	28.39	4.72	65.16	-	-	P	H
		2779.00	48.62	-25.38	74	73.77	32.63	7.68	65.46	-	-	P	H
		5557.60	52.23	-36.53	88.76	71.77	34.90	10.95	65.39	-	-	P	H
		1073.80	50.22	-23.78	74	82.49	28.15	4.75	65.17	-	-	P	V
		2779.00	48.34	-25.66	74	73.49	32.63	7.68	65.46	-	-	P	V
		5559.40	54.05	-42.64	96.69	73.58	34.90	10.96	65.39	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Note symbol

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



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

	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable 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)
902.5MHz		2708.20	51.89	-22.11	74	76.80	33.05	7.58	65.54	333	243	P	H
		2708.20	50.19	-3.81	54	75.10	33.05	7.58	65.54	333	243	A	H

$$1. \text{ Level(dB}\mu\text{V/m)} = \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$2. \text{ Over Limit(dB)} = \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2708.20MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 33.05(\text{dB/m}) + 7.58(\text{dB}) + 76.80(\text{dB}\mu\text{V}) - 65.54(\text{dB})$$

$$= 51.89(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 51.89(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -22.11(\text{dB})$$

For Average Limit @ 2708.20MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 33.05(\text{dB/m}) + 7.58(\text{dB}) + 75.10(\text{dB}\mu\text{V}) - 65.54(\text{dB})$$

$$= 50.19(\text{dB}\mu\text{V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 50.19(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -3.81(\text{dB})$$

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



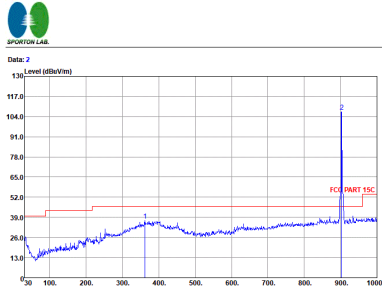
Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



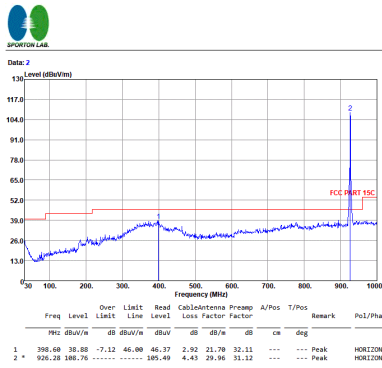
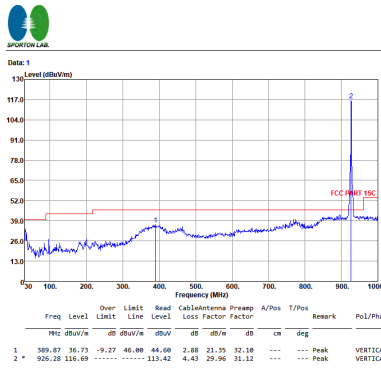
LoRa 500KHz DTS SF=12 (Band Edge @ 3m)

LoRa	902.5~926.5 Band Edge @ 3m																																																																																																													
ANT	LoRa 500KHz DTS SF=12 CH01 902.5																																																																																																													
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Peak	<table><tr><th></th><th>Over</th><th>L</th><th>Read</th><th>Cable</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>361.74</td><td>36.88</td><td>-9.82</td><td>46.00</td><td>45.68</td><td>2.77</td><td>28.61</td><td>32.88</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>2 *</td><td>903.88</td><td>187.83</td><td>-----</td><td>104.72</td><td>4.38</td><td>29.28</td><td>31.27</td><td>---</td><td>Peak HORIZONTAL</td></tr></table>		Over	L	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Poi/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	361.74	36.88	-9.82	46.00	45.68	2.77	28.61	32.88	---	Peak HORIZONTAL	2 *	903.88	187.83	-----	104.72	4.38	29.28	31.27	---	Peak HORIZONTAL	<table><tr><th></th><th>Over</th><th>L</th><th>Read</th><th>Cable</th><th>Antenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>380.84</td><td>35.28</td><td>-10.88</td><td>46.00</td><td>43.82</td><td>2.89</td><td>21.39</td><td>32.18</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>2 *</td><td>903.88</td><td>114.35</td><td>-----</td><td>112.84</td><td>4.38</td><td>29.28</td><td>31.27</td><td>---</td><td>Peak VERTICAL</td></tr></table>		Over	L	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Poi/Phas		Freq	Level	Limit	Line	Level	Loss	Factor	Factor				MHz	dBuV/m	dB	dBuV/m	dB	dB/m	dB	cm	deg		1	380.84	35.28	-10.88	46.00	43.82	2.89	21.39	32.18	---	Peak VERTICAL	2 *	903.88	114.35	-----	112.84	4.38	29.28	31.27	---	Peak VERTICAL
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LoRa	902.5~926.5 Band Edge @ 3m																																																																																																																			
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LoRa 500KHz DTS SF=12 (Harmonic @ 3m)

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1	1897.00	45.10	-35.50	76.00	77.15	28.42	4.71	65.16	0.00	-- Peak	HORIZONTAL																																																																																																																																							
2	2744.20	51.46	-22.54	74.00	76.50	32.83	7.63	65.50	0.00	248 Peak	HORIZONTAL																																																																																																																																							
3	2744.20	50.00	-3.94	54.00	75.10	32.83	7.63	65.50	0.00	320 Average	HORIZONTAL																																																																																																																																							
4	5407.40	52.00	-35.49	88.29	72.40	34.95	10.87	65.42	0.00	-- Peak	HORIZONTAL																																																																																																																																							
Freq	Level	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																							
			Line	Level	Factor	Loss	Factor	Factor																																																																																																																																										
1	1895.20	50.79	-22.21	74.00	82.85	28.42	4.71	65.16	0.00	335 Peak	VERTICAL																																																																																																																																							
2	1895.20	44.46	-9.54	54.00	76.50	28.42	4.71	65.16	0.00	100 Average	VERTICAL																																																																																																																																							
3	2743.00	40.68	-25.32	74.00	75.71	22.84	7.63	65.50	0.00	-- Peak	VERTICAL																																																																																																																																							
4	5400.20	54.71	-41.68	96.39	74.30	34.96	10.87	65.42	0.00	-- Peak	VERTICAL																																																																																																																																							

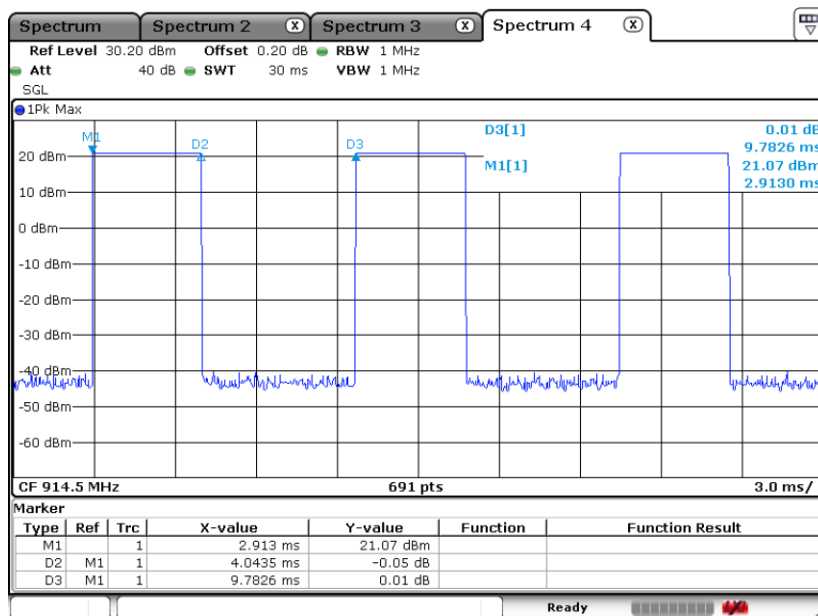


LoRa	902.5~926.5 Harmonic @ 3m																																																																																																																																													
ANT	LoRa 500KHz DTS SF=12 CH31 926.5																																																																																																																																													
	Horizontal	Vertical																																																																																																																																												
Peak	<table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBm/Hz</th><th>dB</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th></tr><tr><td>1</td><td>1875.00</td><td>-47.87</td><td>-25.13</td><td>74.80</td><td>75.92</td><td>28.39</td><td>4.72</td><td>65.16</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>2779.00</td><td>-48.42</td><td>-25.38</td><td>74.80</td><td>73.77</td><td>32.63</td><td>7.68</td><td>65.46</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>5555.00</td><td>-52.23</td><td>-36.53</td><td>68.76</td><td>71.77</td><td>34.90</td><td>28.95</td><td>65.39</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Peak	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		MHz	dBm/Hz	dB	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	1	1875.00	-47.87	-25.13	74.80	75.92	28.39	4.72	65.16	0.00	--	--	Peak	HORIZONTAL	2	2779.00	-48.42	-25.38	74.80	73.77	32.63	7.68	65.46	0.00	--	--	Peak	HORIZONTAL	3	5555.00	-52.23	-36.53	68.76	71.77	34.90	28.95	65.39	0.00	--	--	Peak	HORIZONTAL	<table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Margin</th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBm/Hz</th><th>dB</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th><th>dBm/Hz</th></tr><tr><td>1</td><td>1875.00</td><td>-50.22</td><td>-33.78</td><td>74.80</td><td>62.40</td><td>28.15</td><td>4.75</td><td>65.17</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>2779.00</td><td>-48.34</td><td>-25.66</td><td>74.80</td><td>73.49</td><td>32.63</td><td>7.68</td><td>65.46</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>5555.00</td><td>-54.85</td><td>-42.04</td><td>66.69</td><td>73.50</td><td>34.90</td><td>28.96</td><td>65.39</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td><td>VERTICAL</td></tr></table>	Peak	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase		MHz	dBm/Hz	dB	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	1	1875.00	-50.22	-33.78	74.80	62.40	28.15	4.75	65.17	0.00	--	--	Peak	VERTICAL	2	2779.00	-48.34	-25.66	74.80	73.49	32.63	7.68	65.46	0.00	--	--	Peak	VERTICAL	3	5555.00	-54.85	-42.04	66.69	73.50	34.90	28.96	65.39	0.00	--	--	Peak	VERTICAL
Peak	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																	
	MHz	dBm/Hz	dB	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz																																																																																																																																	
1	1875.00	-47.87	-25.13	74.80	75.92	28.39	4.72	65.16	0.00	--	--	Peak	HORIZONTAL																																																																																																																																	
2	2779.00	-48.42	-25.38	74.80	73.77	32.63	7.68	65.46	0.00	--	--	Peak	HORIZONTAL																																																																																																																																	
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Peak	Freq	Level	Margin	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase																																																																																																																																	
	MHz	dBm/Hz	dB	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz	dBm/Hz																																																																																																																																	
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3	5555.00	-54.85	-42.04	66.69	73.50	34.90	28.96	65.39	0.00	--	--	Peak	VERTICAL																																																																																																																																	

Appendix E. Duty Cycle Plots

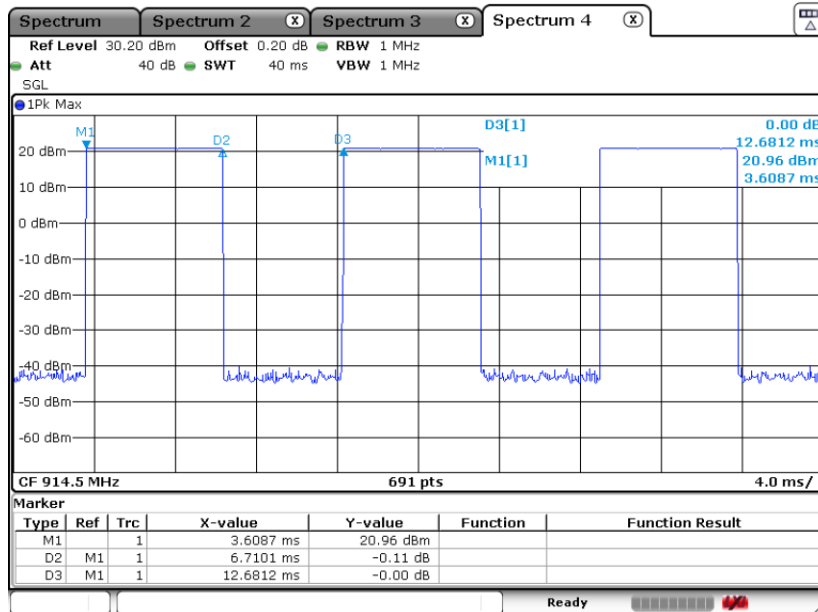
Band	Duty Cycle(%)	VBW Setting	Duty Factor (dB)
LORA DTS SF5	41.33	-	3.84
LORA DTS SF6	52.91	-	2.76
LORA DTS SF7	69.45	-	1.58
LORA DTS SF8	79.46	-	1.00
LORA DTS SF9	86.81	-	0.61
LORA DTS SF10	92.90	-	0.32
LORA DTS SF11	96.32	-	0.16
LORA DTS SF12	98.48	10Hz	0.07

LORA DTS SF5

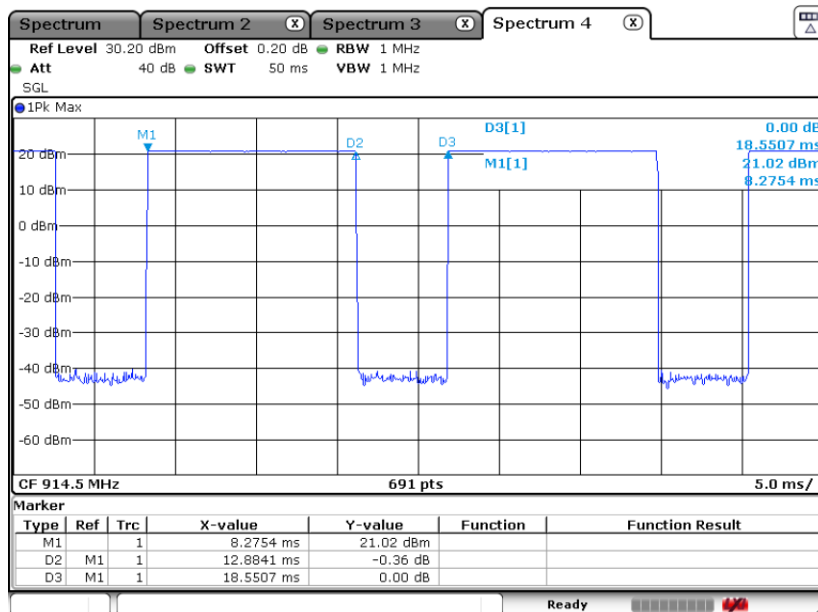




LORA DTS SF6

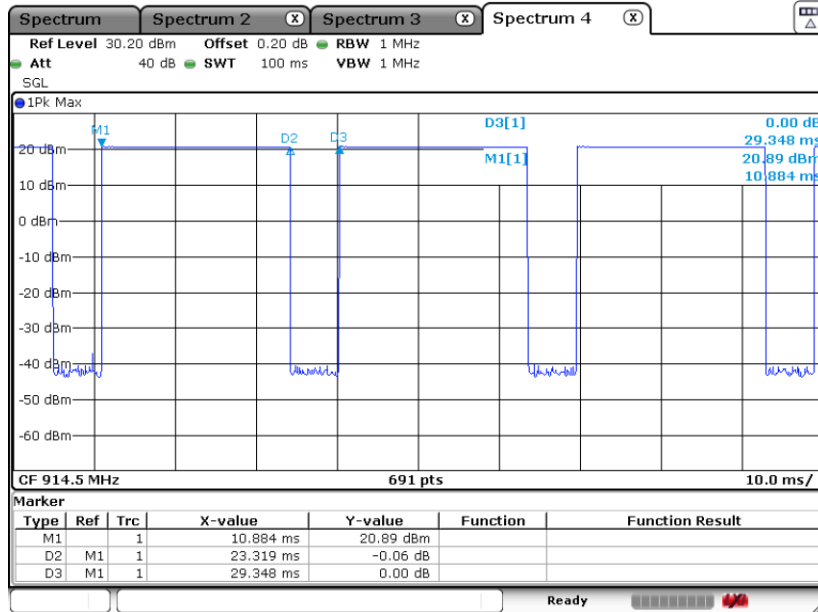


LORA DTS SF7

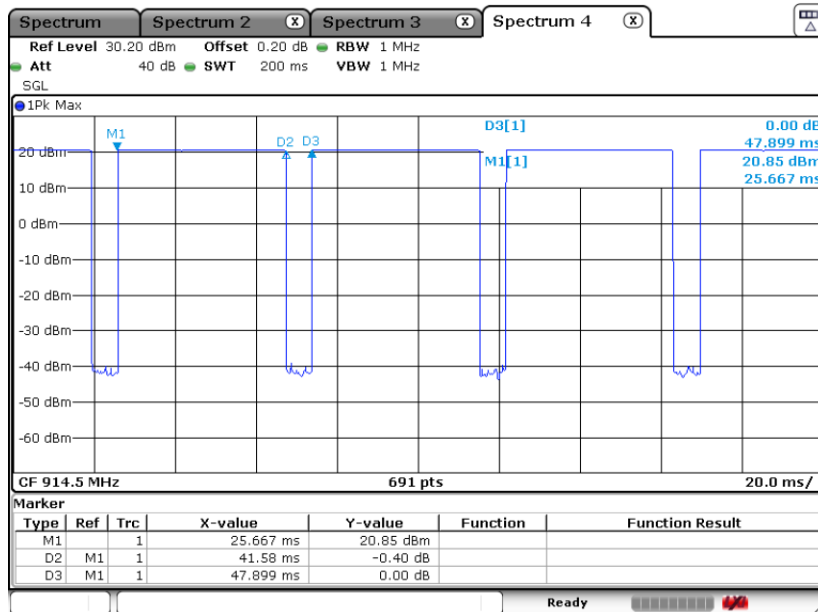




LORA DTS SF8

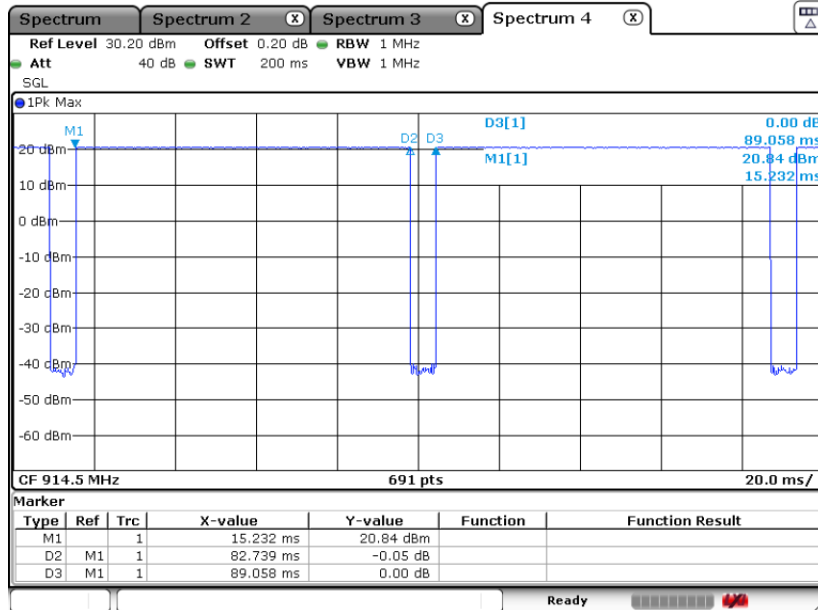


LORA DTS SF9

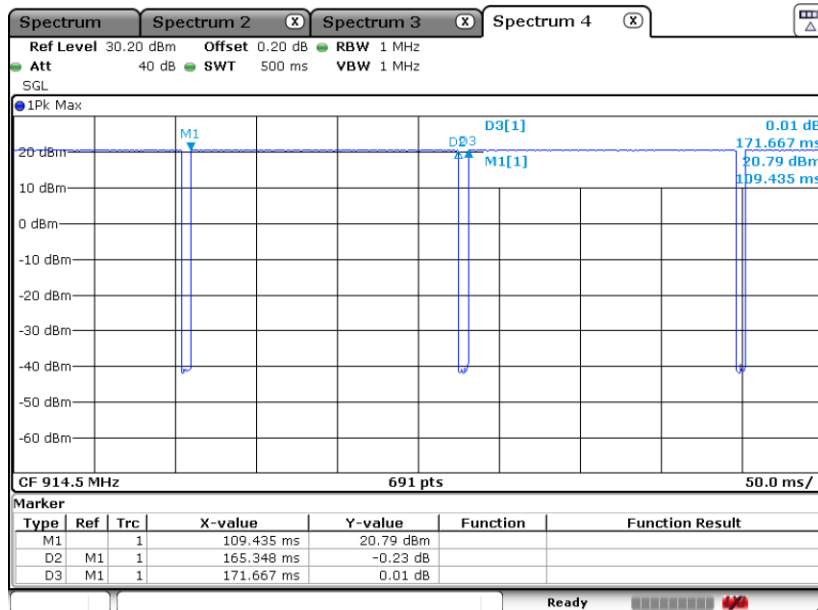




LORA DTS SF10



LORA DTS SF11





LORA DTS SF12

