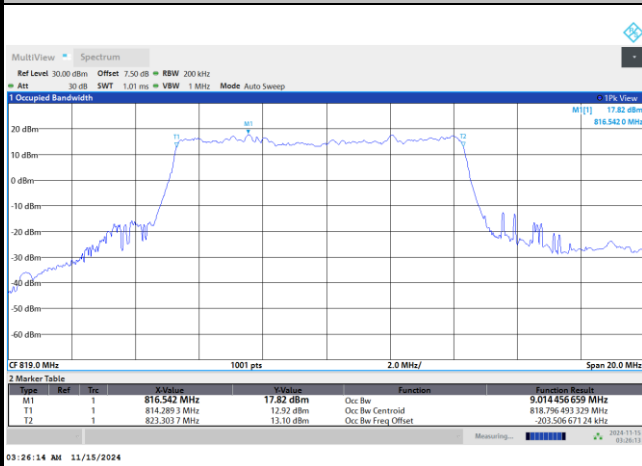




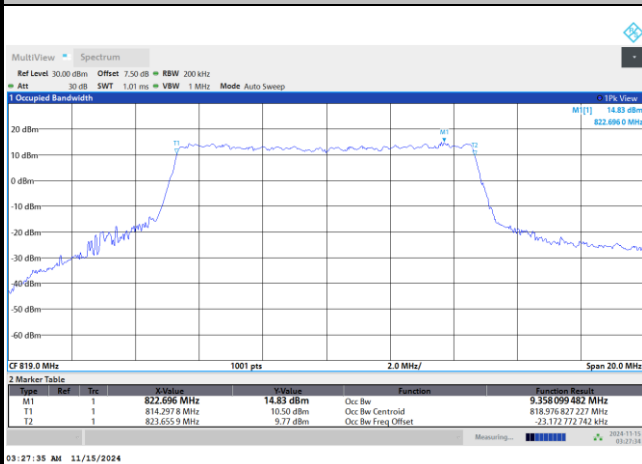
FR1 n26 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

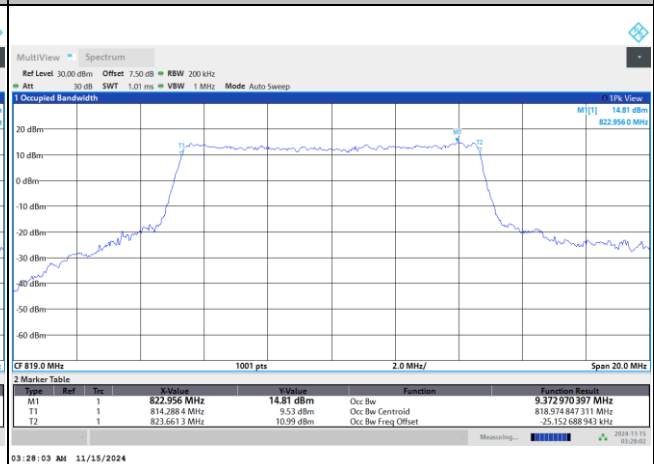


FR1 n26 / 10MHz / CP OFDM / Middle Channel / Full RB

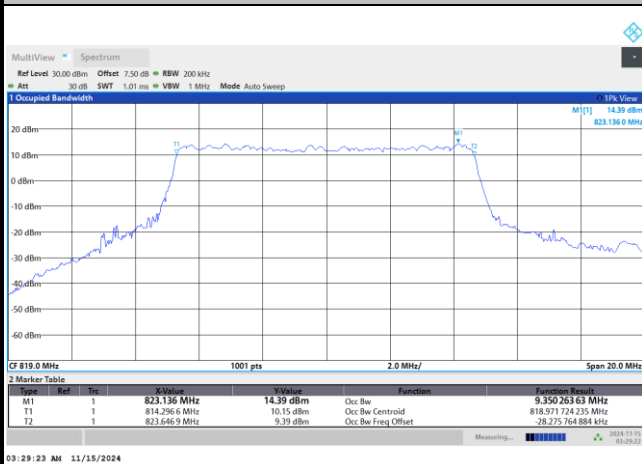
QPSK



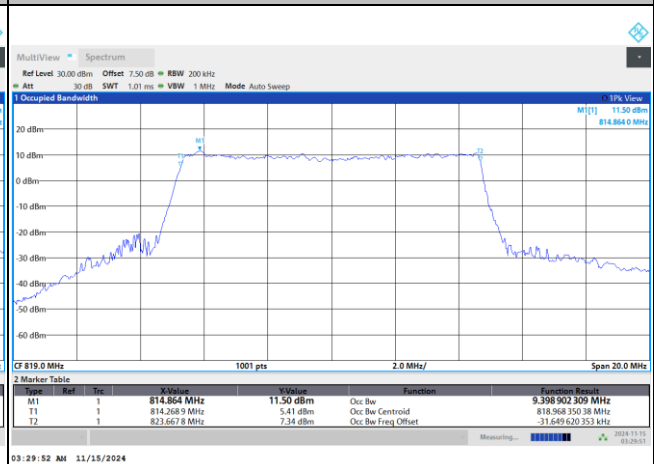
16QAM



64QAM



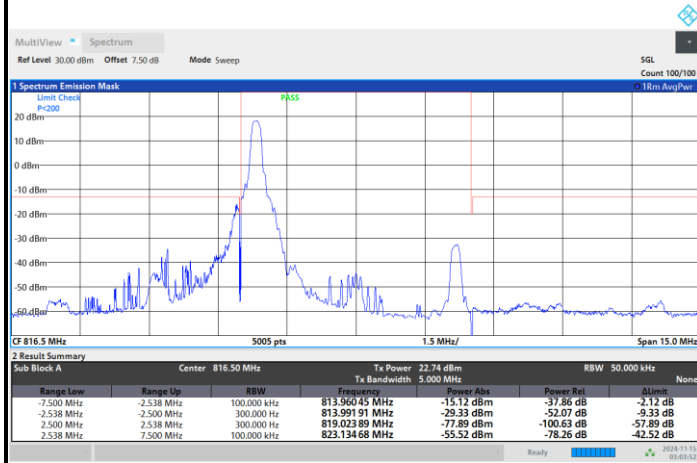
256QAM



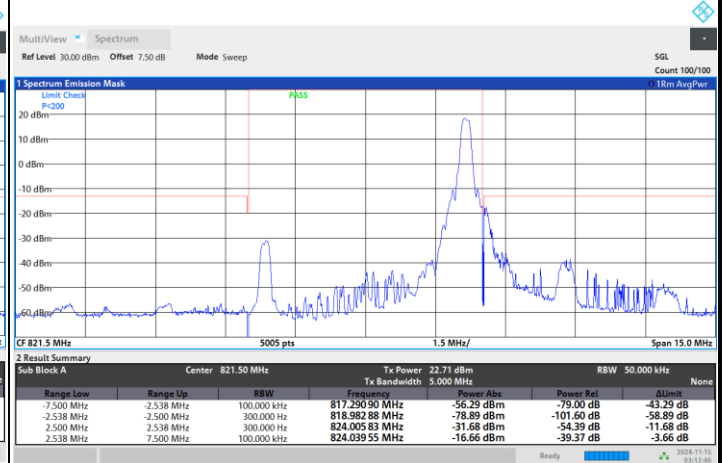
**Emission masks – In-band emissions**

FR1 n26 / 5MHz / DFT-S OFDM / PI/2 BPSK

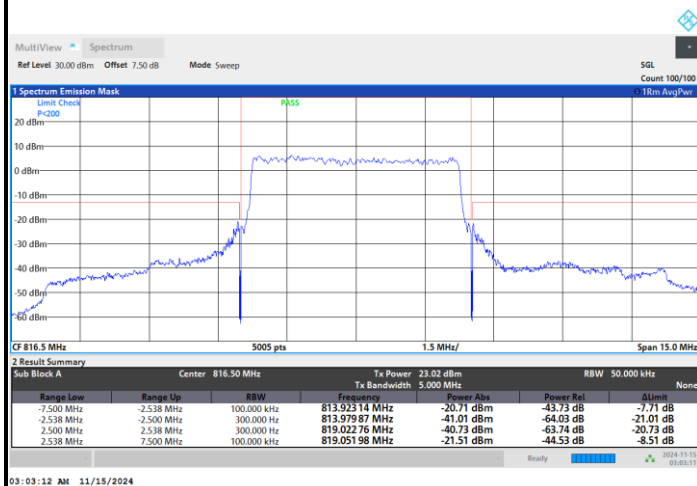
Lowest MASK / 1RB0



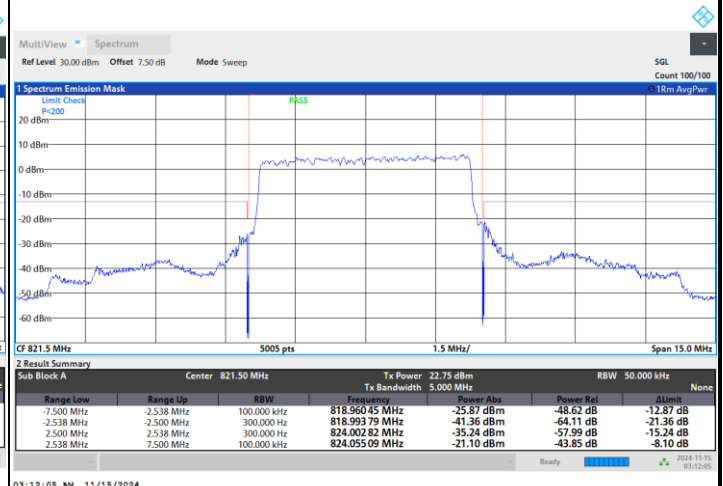
Highest MASK / 1RBmax



Lowest MASK / Full RB



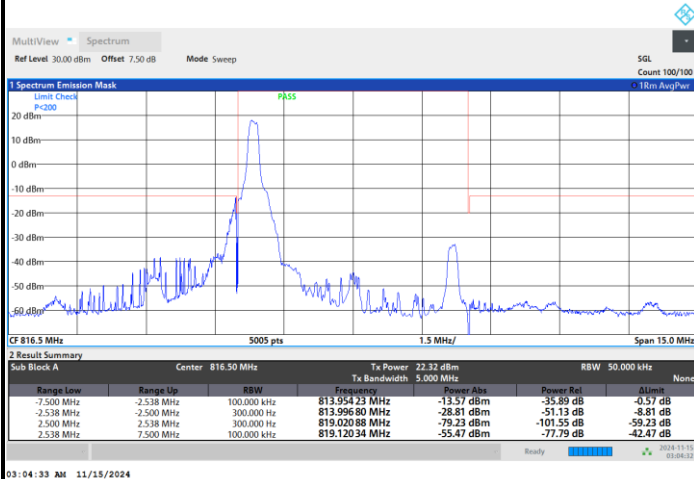
Highest MASK / Full RB



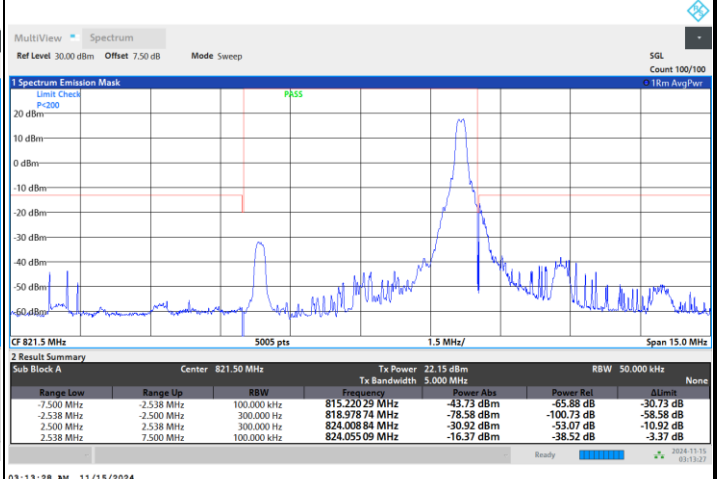


FR1 n26 / 5MHz / DFT-S OFDM / QPSK

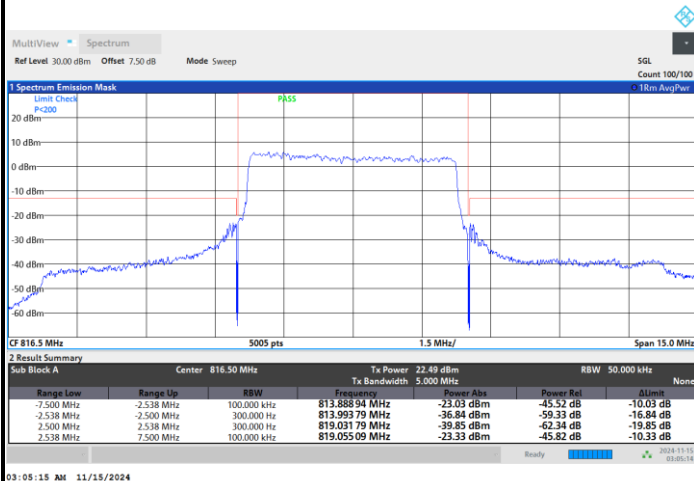
Lowest MASK / 1RB0



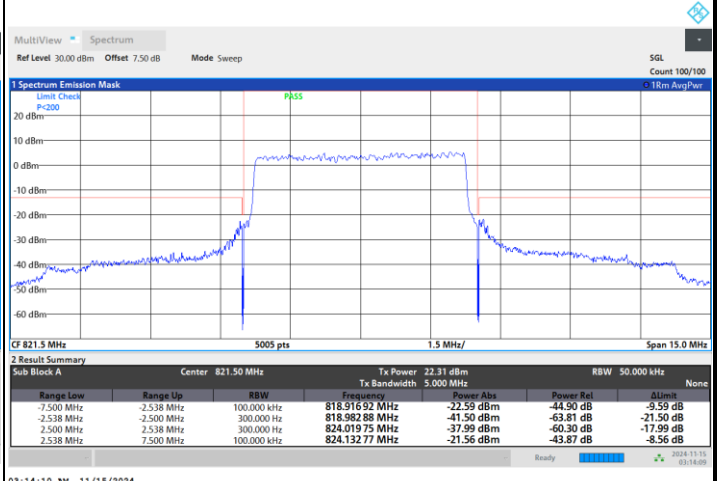
Highest MASK / 1RBmax



Lowest MASK / Full RB



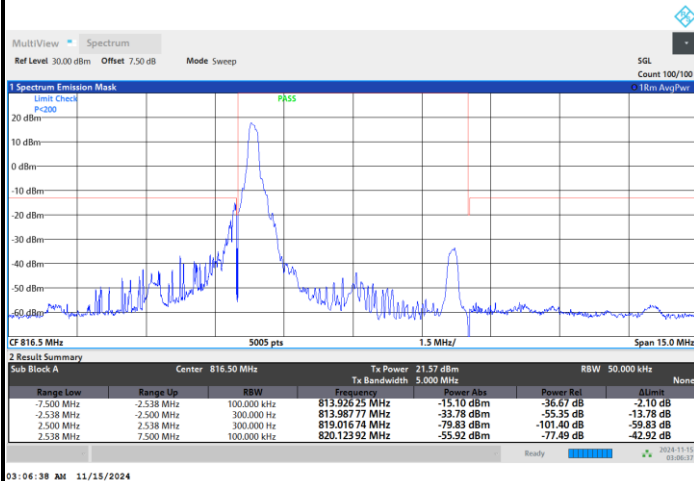
Highest MASK / Full RB



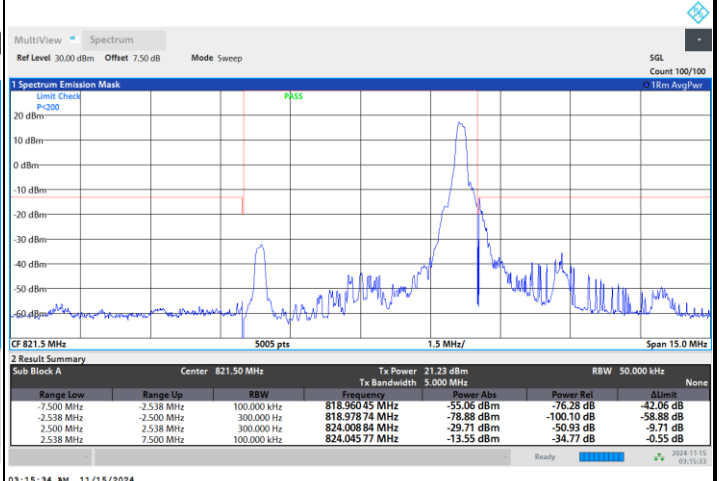


FR1 n26 / 5MHz / DFT-S OFDM / 16QAM

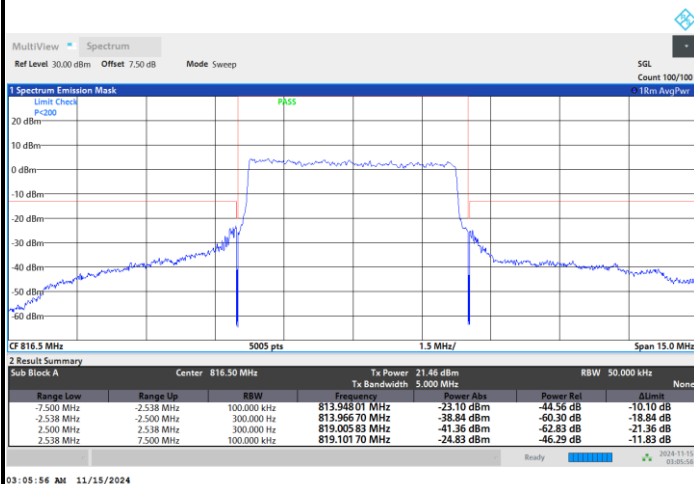
Lowest MASK / 1RB0



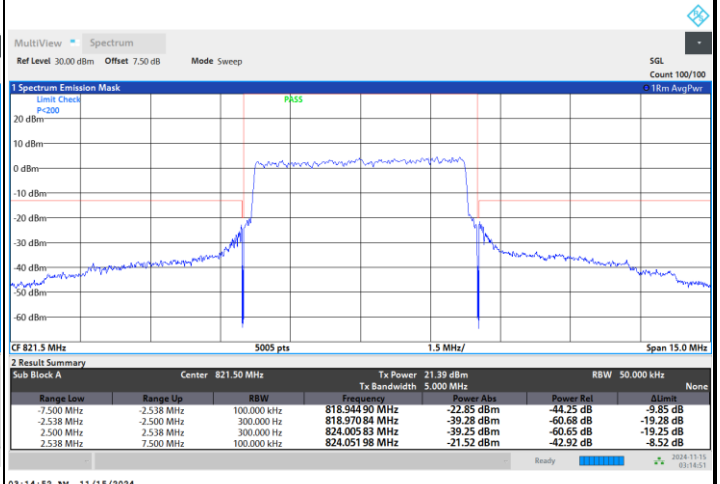
Highest MASK / 1RBmax



Lowest MASK / Full RB



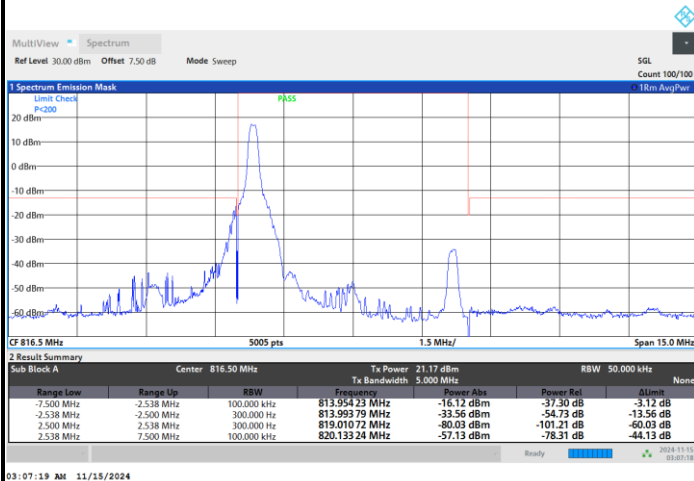
Highest MASK / Full RB



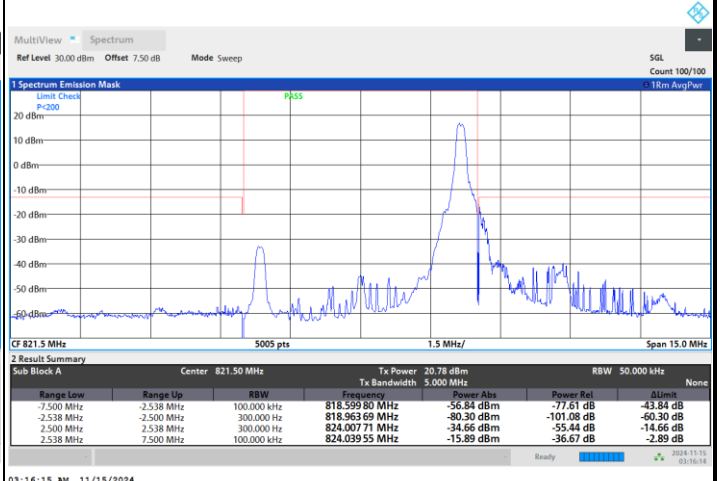


FR1 n26 / 5MHz / DFT-S OFDM / 64QAM

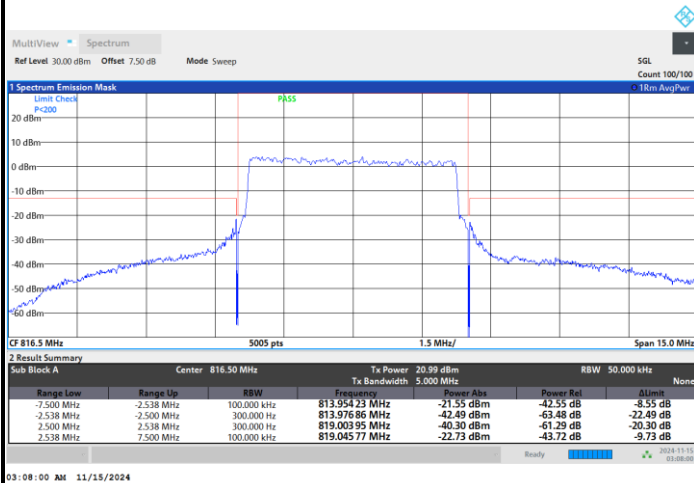
Lowest MASK / 1RB0



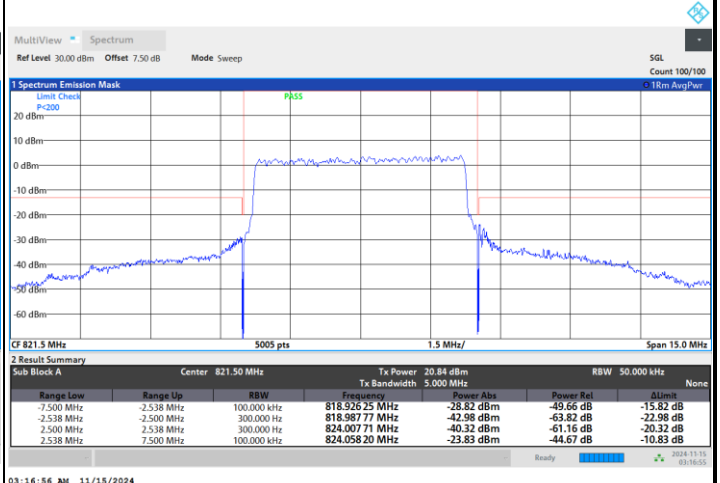
Highest MASK / 1RBmax



Lowest MASK / Full RB



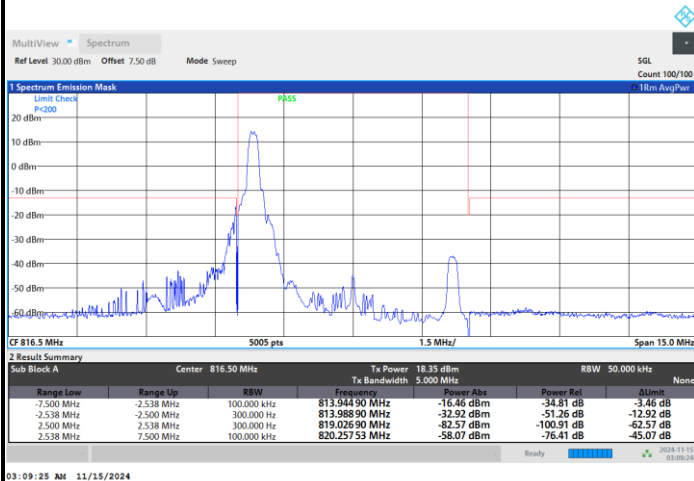
Highest MASK / Full RB



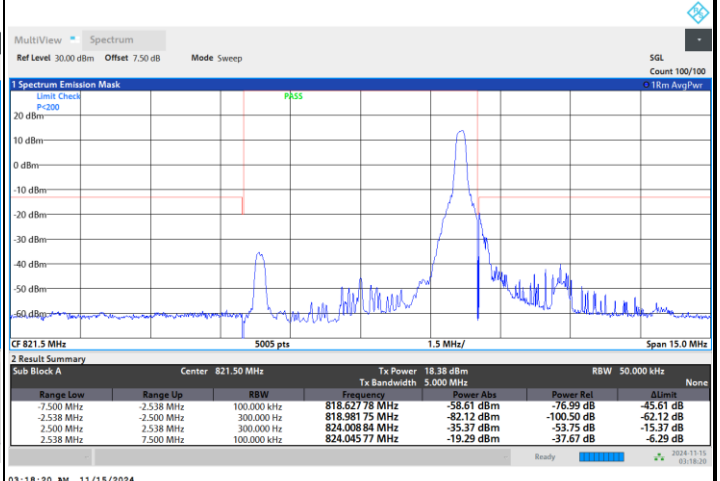


FR1 n26 / 5MHz / DFT-S OFDM / 256QAM

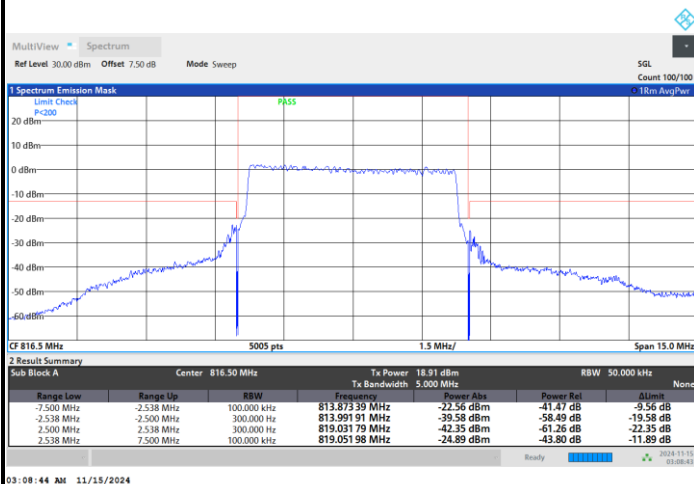
Lowest MASK / 1RB0



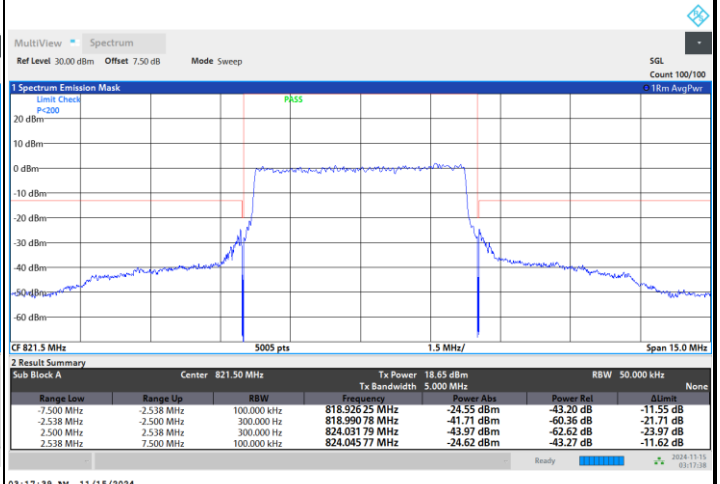
Highest MASK / 1RBmax



Lowest MASK / Full RB



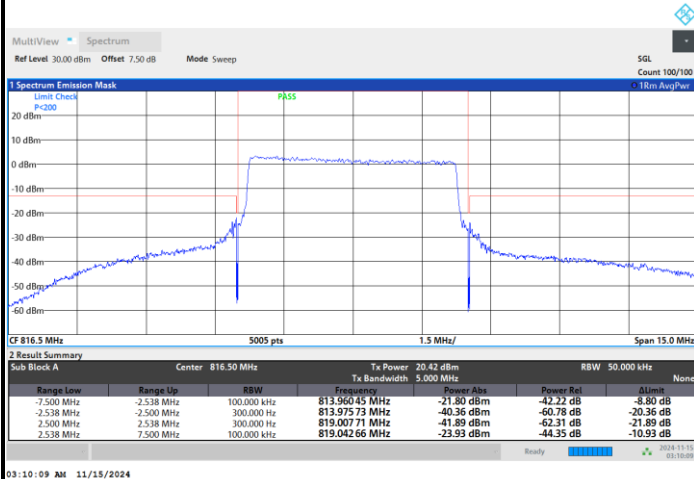
Highest MASK / Full RB





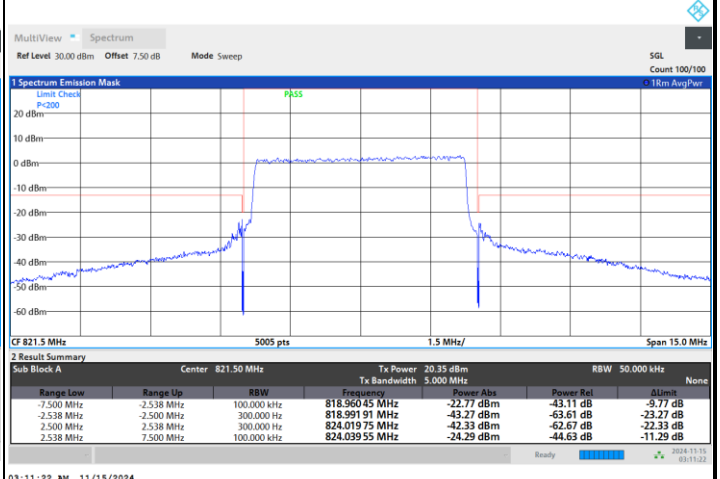
FR1 n26 / 5MHz / CP OFDM / QPSK / Full RB

Lowest MASK

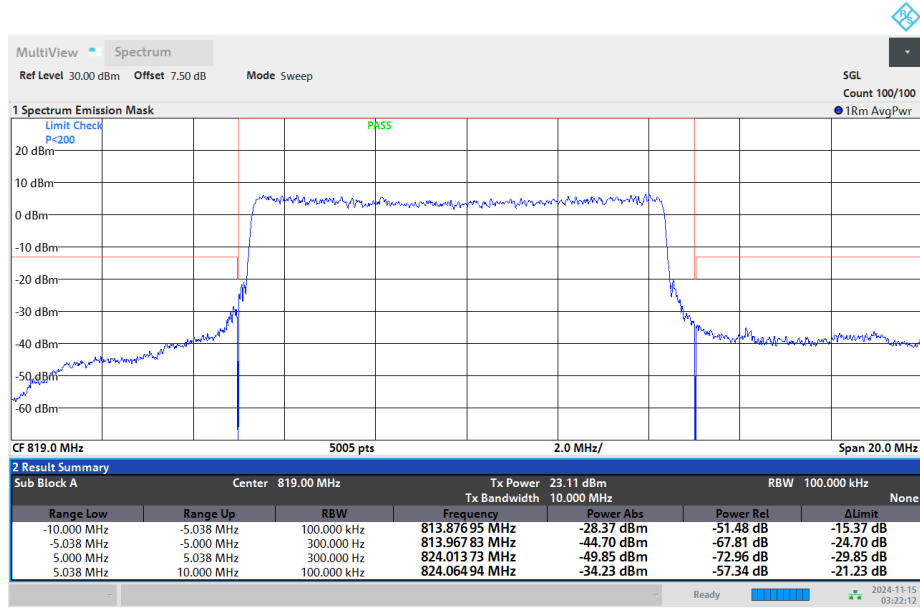


03:10:09 AM 11/15/2024

Highest MASK



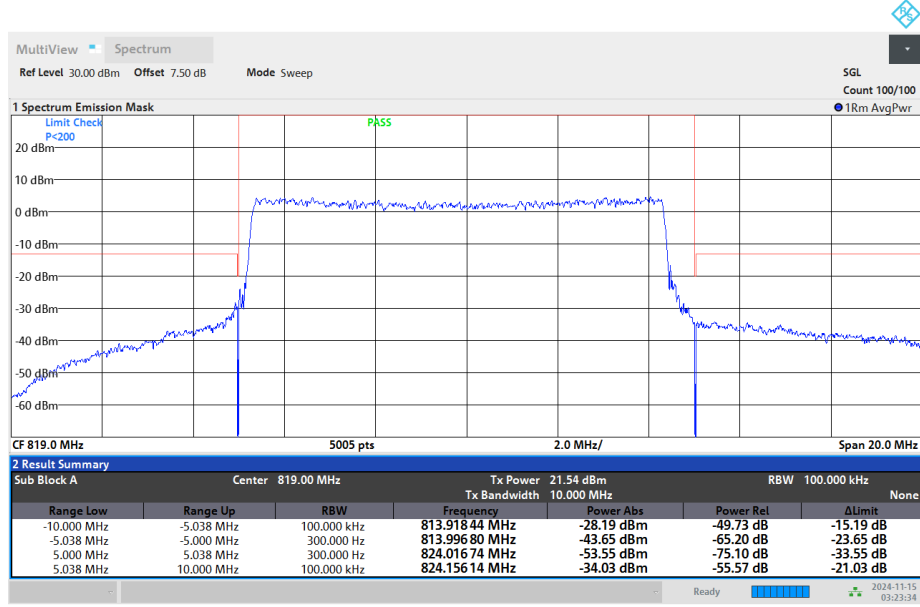
03:11:22 AM 11/15/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / PI/2 BPSK****Middle MASK / Full RB**

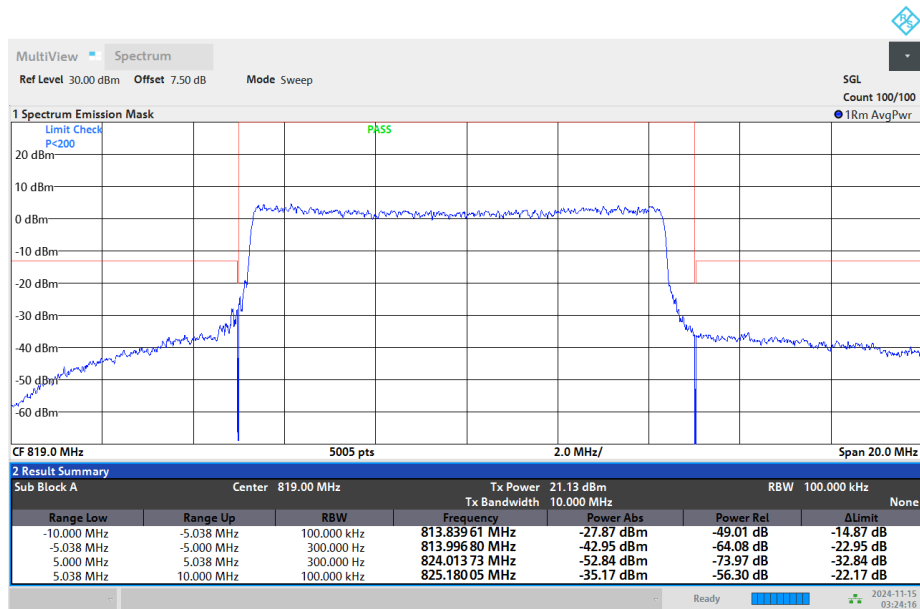
03:22:13 AM 11/15/2024

FR1 n26 / 10MHz / DFT-s-OFDM / QPSK**Lowest MASK / Full RB**

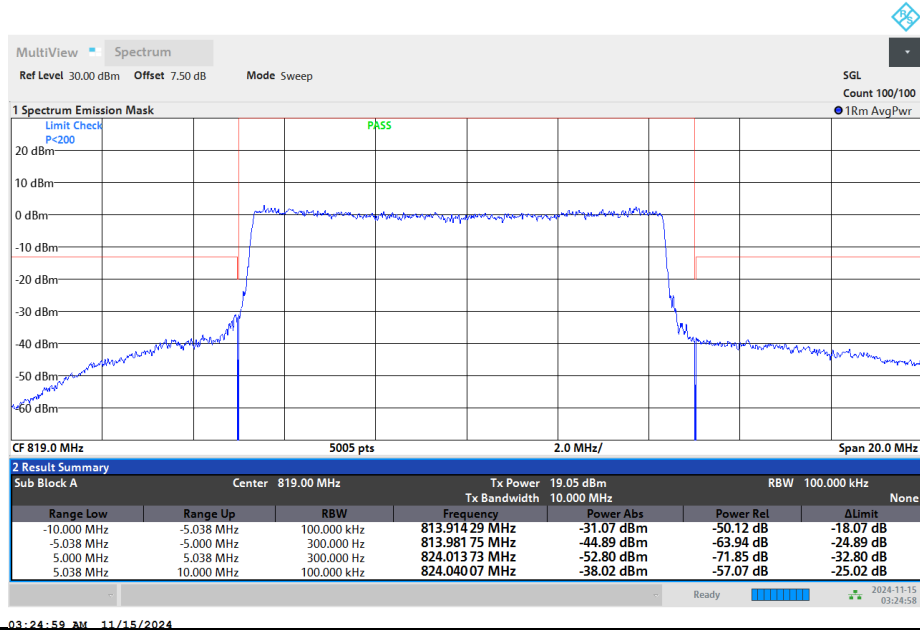
03:22:54 AM 11/15/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / 16QAM****Middle MASK / Full RB**

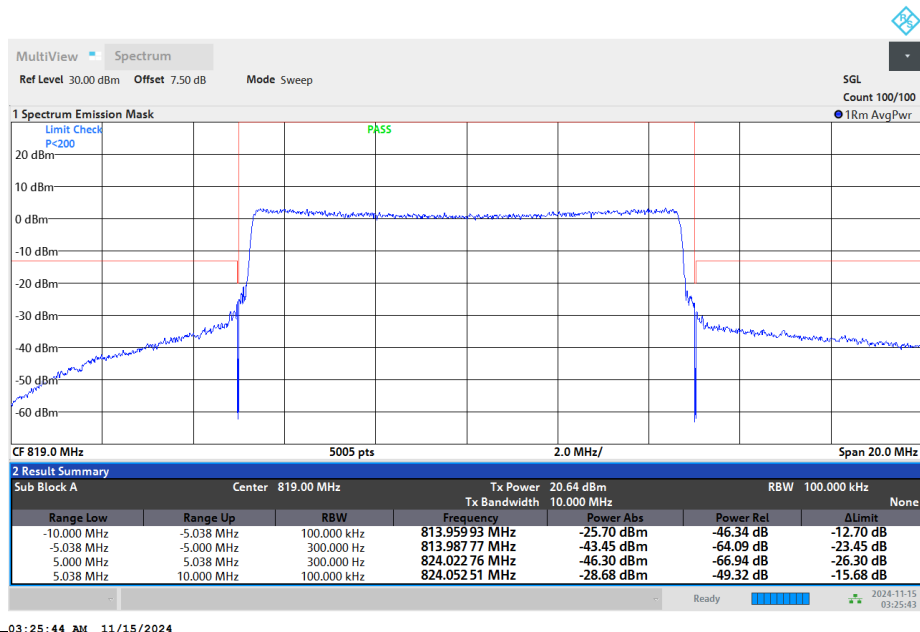
03:23:35 AM 11/15/2024

FR1 n26 / 10MHz / DFT-s-OFDM / 64QAM**Middle MASK / Full RB**

03:24:17 AM 11/15/2024

**FR1 n26 / 10MHz / DFT-s-OFDM / 256QAM****Middle MASK / Full RB**

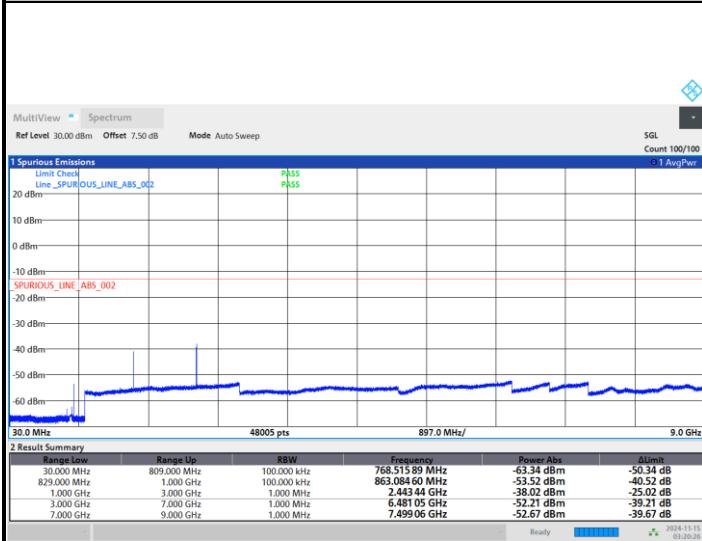
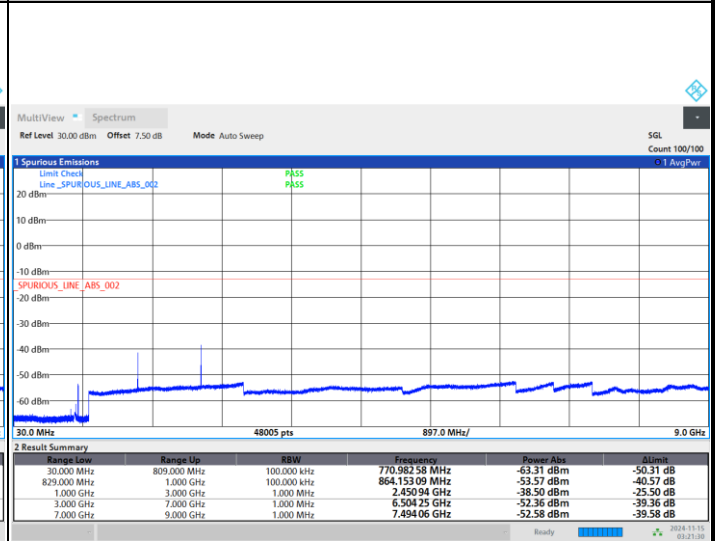
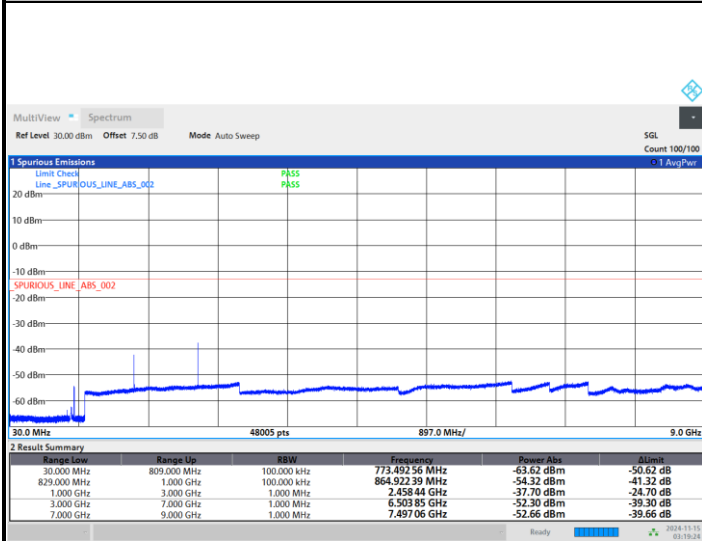
03:24:59 AM 11/15/2024

FR1 n26 / 10MHz / CP OFDM / QPSK / Full RB**Middle MASK**

03:25:44 AM 11/15/2024

**Emission masks – Out of band emissions**

FR1 n26 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel**Middle Channel****Highest Channel**

**Frequency Stability**

Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0038	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0046	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.



Test Conditions		FR1 n26 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0043	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0052	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0042	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.47	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.

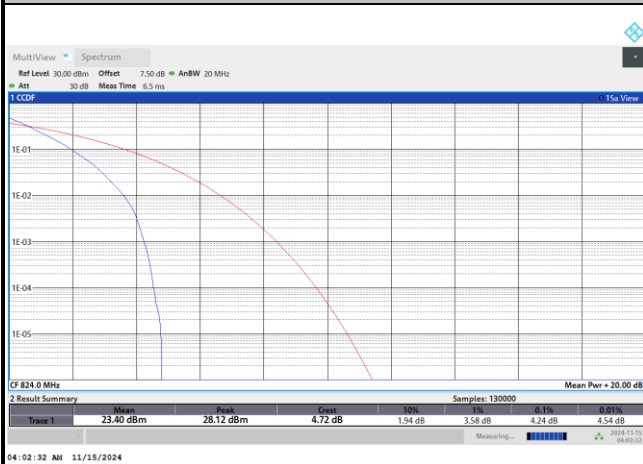
**FR1 n26 Part90s Straddle Channel****Peak-to-Average Ratio**

Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
824MHz	4.24	4.74	5.78	6.18	PASS
Mode	FR1 n26 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
824MHz	6.96				PASS

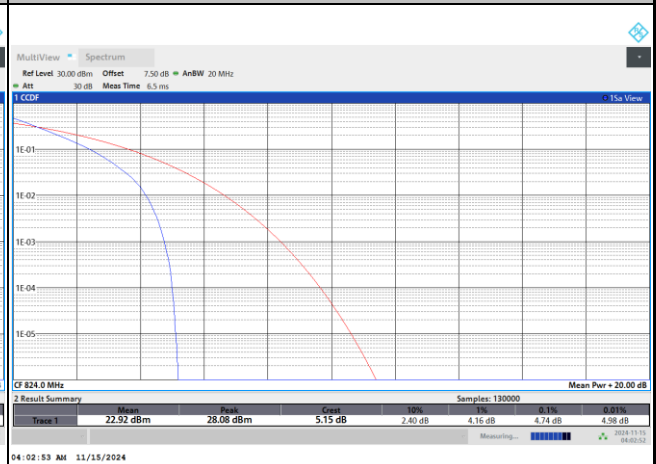


FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB

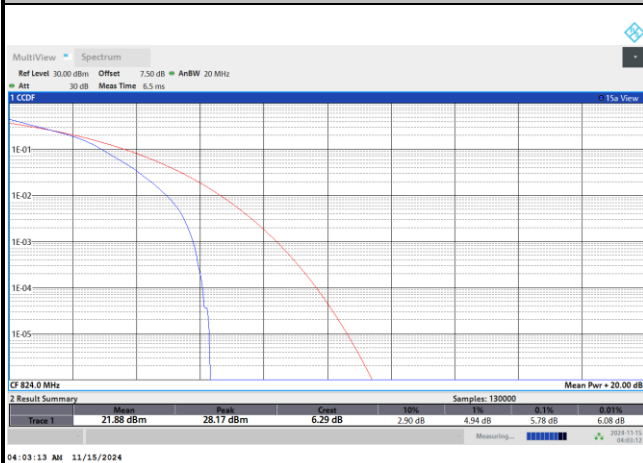
PI/2 BPSK



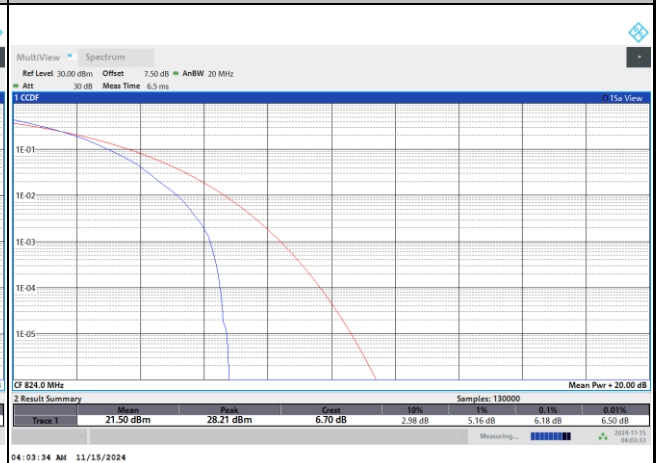
QPSK



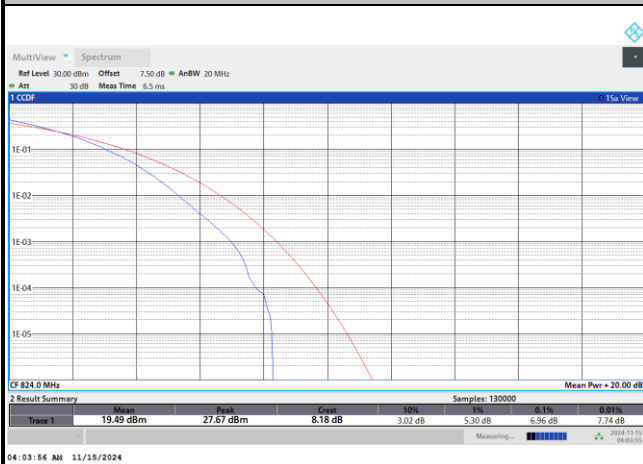
16QAM



64QAM



256QAM



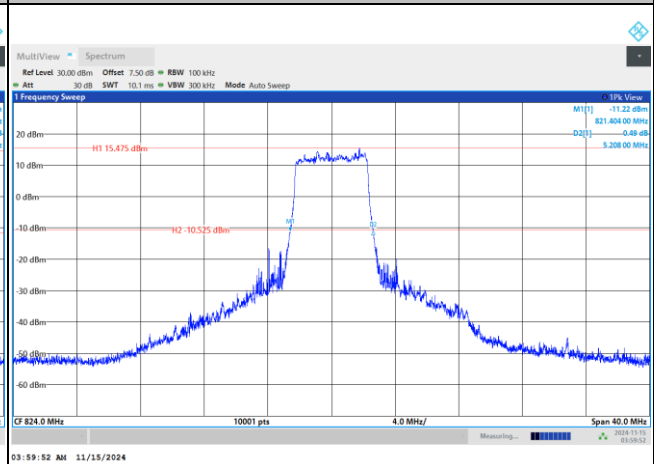
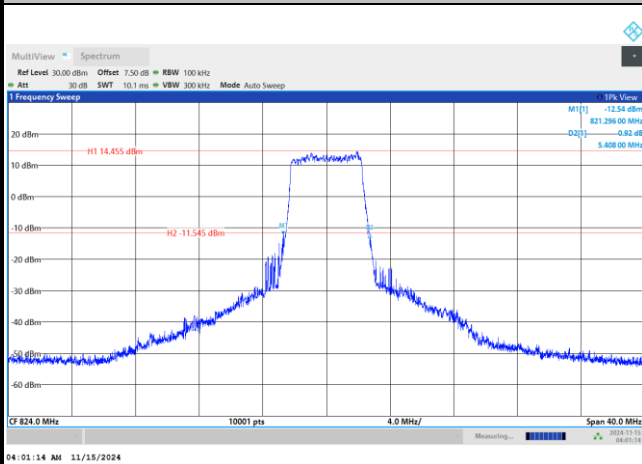
**26dB Bandwidth**

Mode	FR1 n26 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
824MHz	5.13		9.81		14.51		19.48	

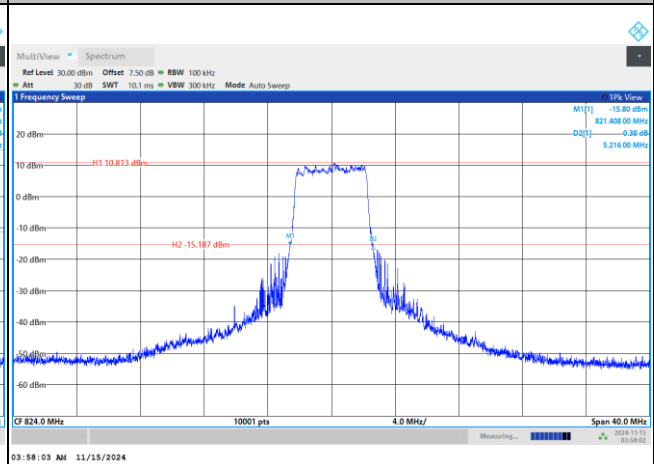
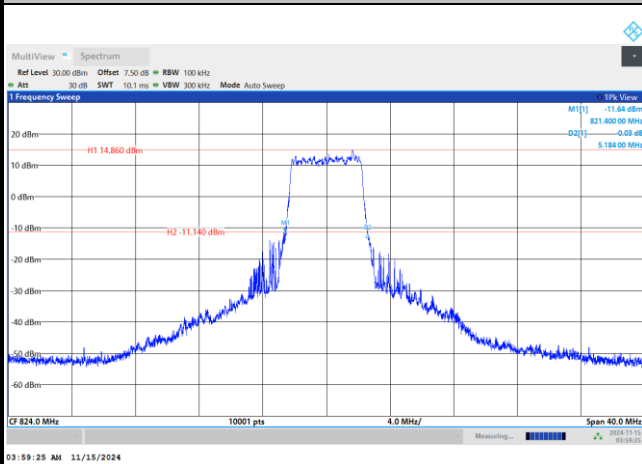
Mode	FR1 n26 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824MHz	5.40	5.20	10.77	10.22	15.31	15.26	20.76	21.67
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824MHz	5.18	5.21	10.12	10.20	15.24	15.30	21.26	20.49

[illegible]

16QAM



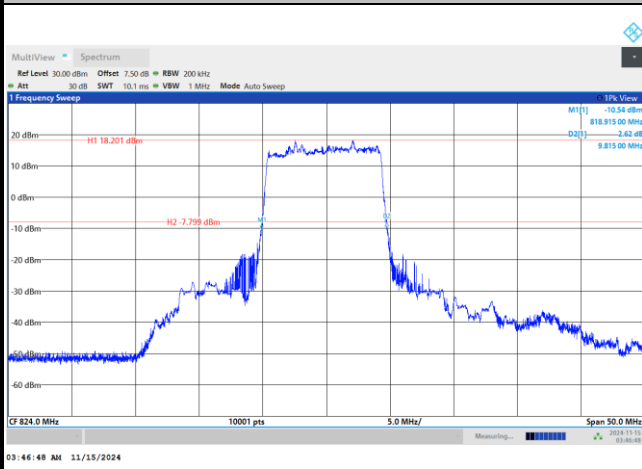
256QAM





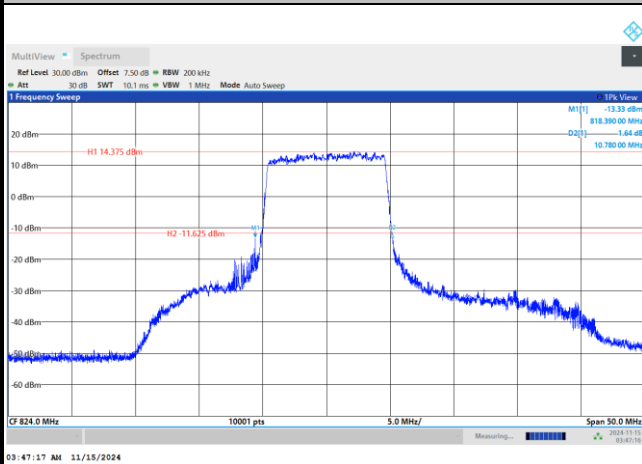
FR1 n26 / 10MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

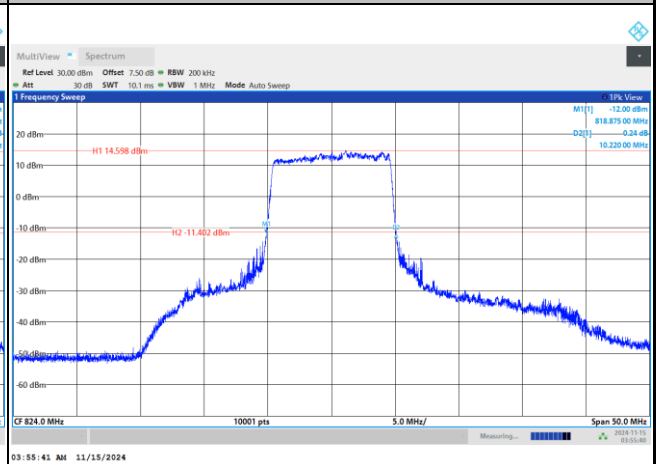


FR1 n26 / 10MHz / CP OFDM / 824MHz / Full RB

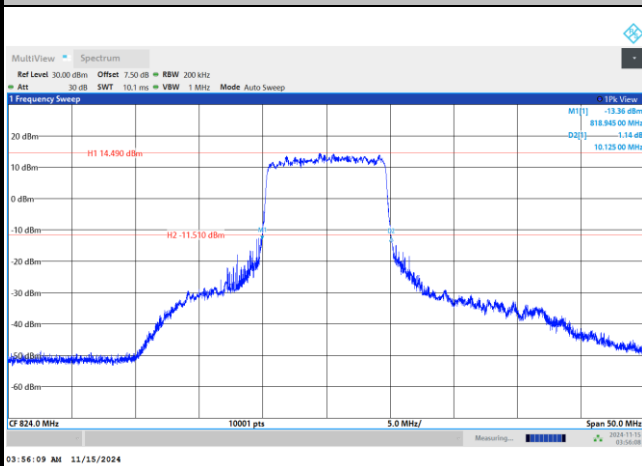
QPSK



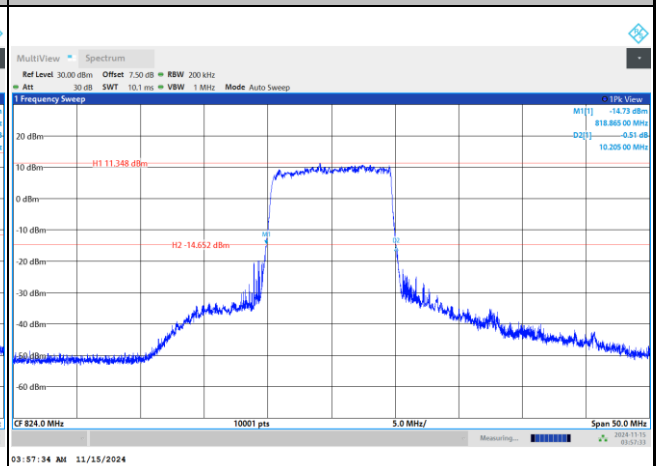
16QAM



64QAM



256QAM





MultiView Spectrum

Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz

Att 30 dB SWF 10.1 ms VBW 1 MHz Mode Auto Sweep

Frequency Sweep

10% Marker

M1[1] -11.88 dBm

M2[2] -13.318 dBm

816.284 00 MHz

816.284 00 MHz

15.318 00 MHz

H1 14.848 dBm

H2 -11.152 dBm

CF 824.0 MHz

10001 pts

6.0 MHz/

Span 60.0 MHz

Measuring...

2023-11-15 09:44:54

03:44:54 AM 11/15/2024

MultiView Spectrum

Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz

Att 30 dB SWF 10.1 ms VBW 1 MHz Mode Auto Sweep

1 Frequency Sweep

17% View

MT [1] -11.80 dBm
 D2 [1] -0.14 dBm
 15.240 00 MHz

20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm

H1 14.654 dBm
 H2 11.346 dBm

10001 pts

6.0 MHz/

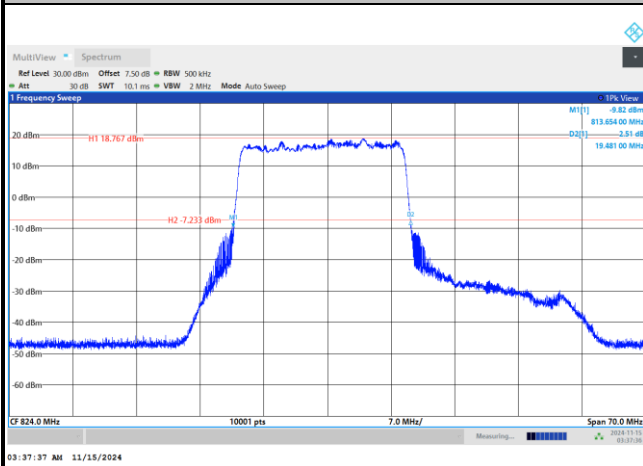
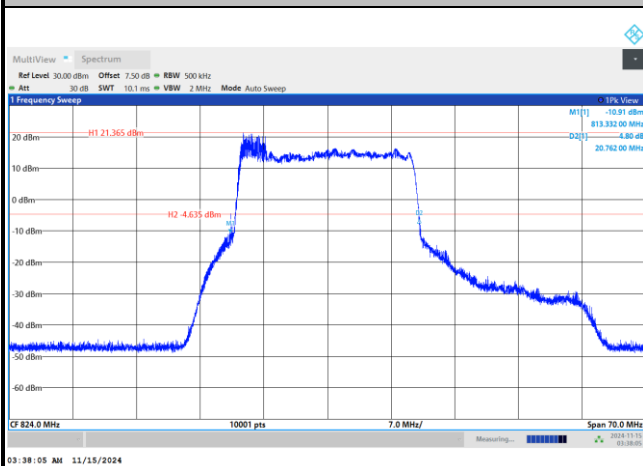
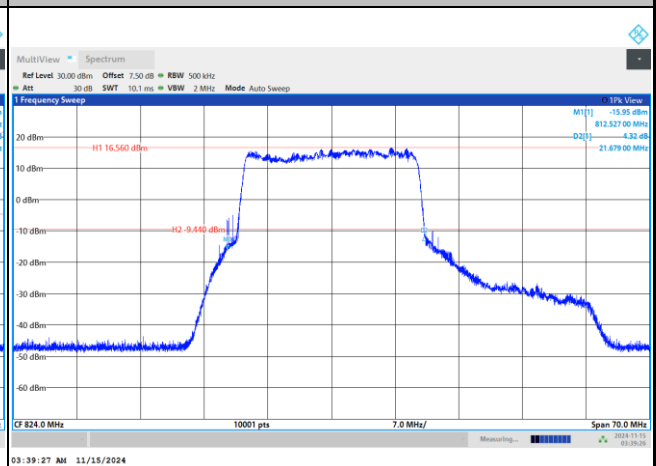
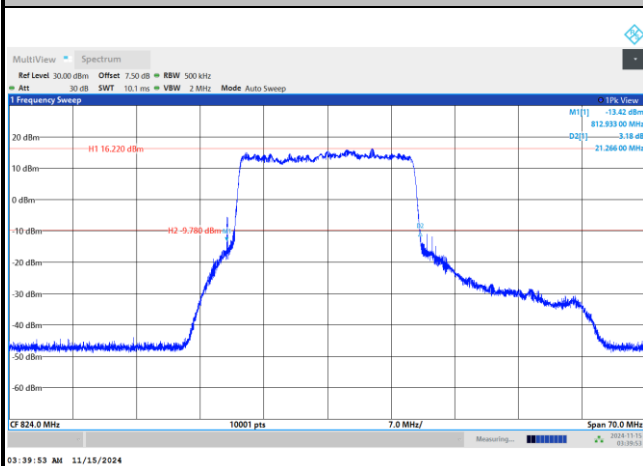
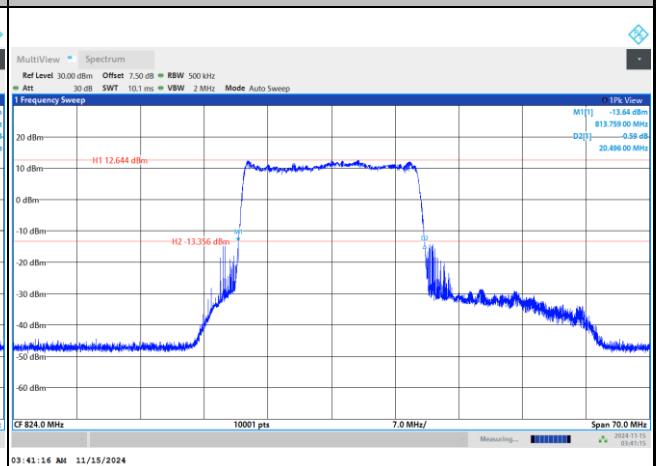
Span 60.0 MHz

CF 824.0 MHz

Measuring...

2024-11-15 03:43:05

03:43:06 AM 11/15/2024

FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB
PI/2 BPSK

FR1 n26 / 20MHz / CP OFDM / 824MHz / Full RB
QPSK

16QAM

64QAM

256QAM


**Occupied Bandwidth**

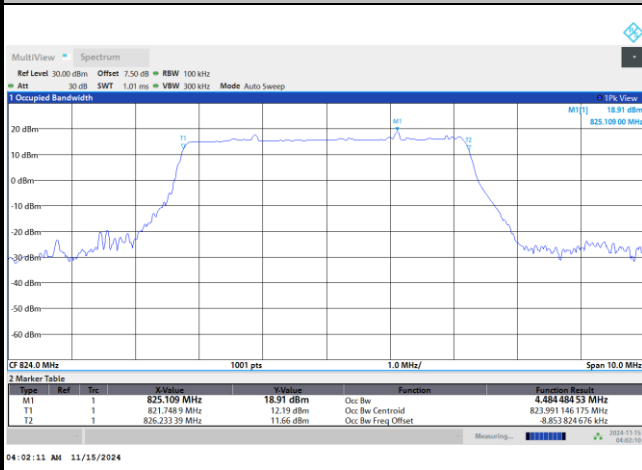
Mode	FR1 n26 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
824MHz	4.48		8.95		13.44		18.02	

Mode	FR1 n26 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
824MHz	4.52	4.54	9.29	9.29	14.13	14.14	18.98	19.06
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
824MHz	4.51	4.51	9.27	9.32	14.17	14.11	19.06	19.13



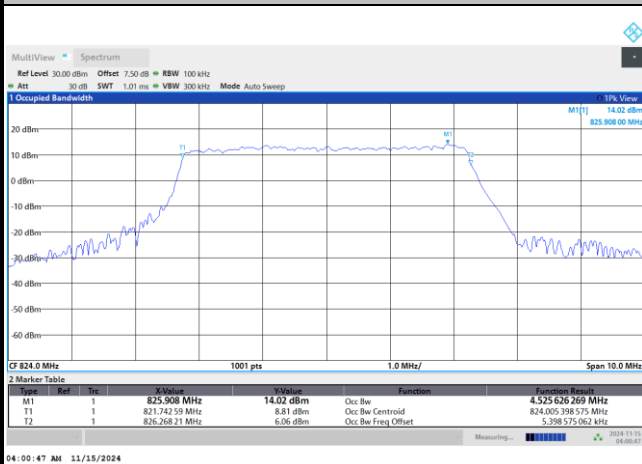
FR1 n26 / 5MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

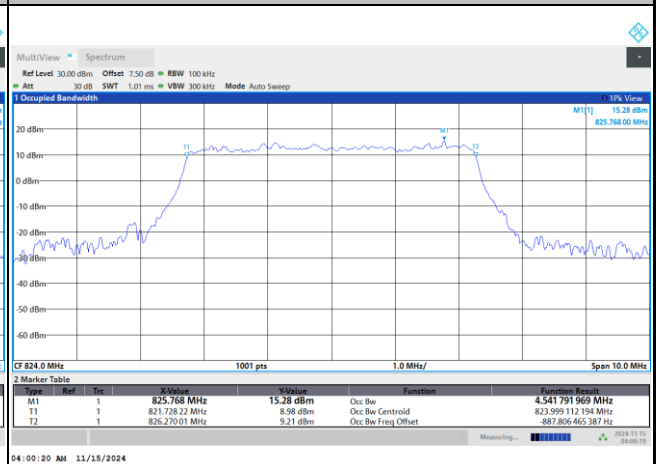


FR1 n26 / 5MHz / CP OFDM / 824MHz / Full RB

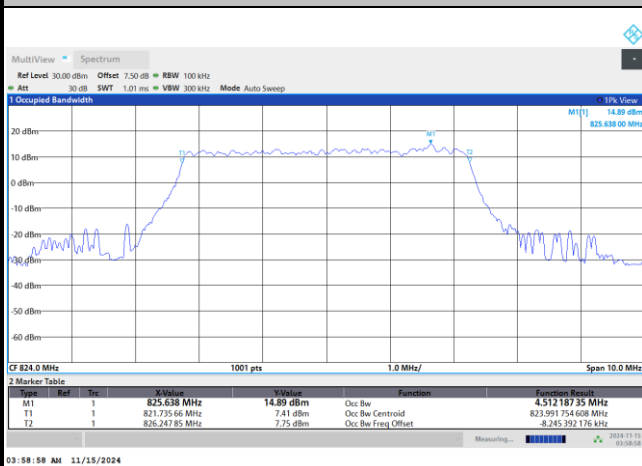
QPSK



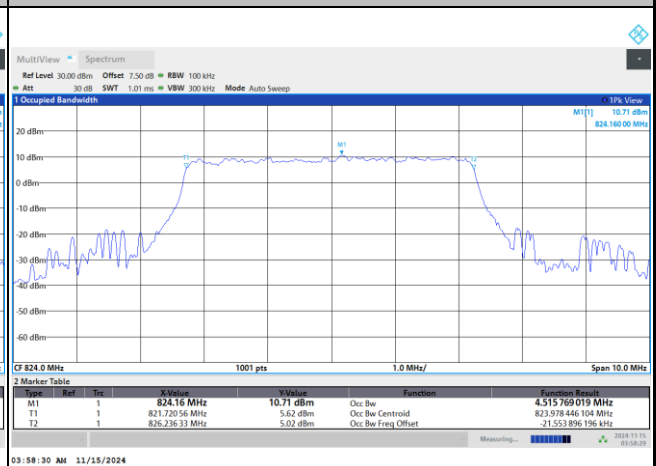
16QAM



64QAM

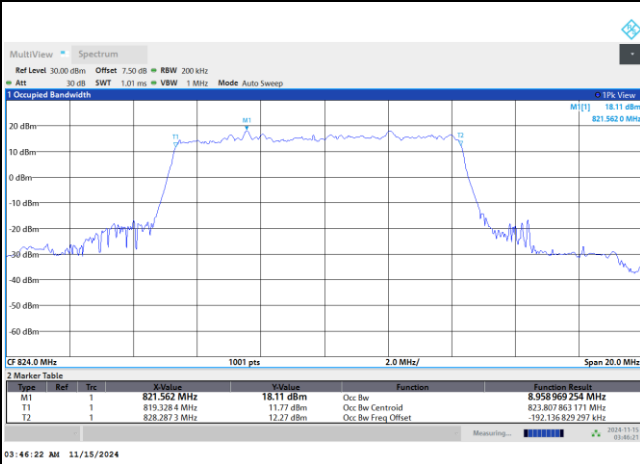


256QAM



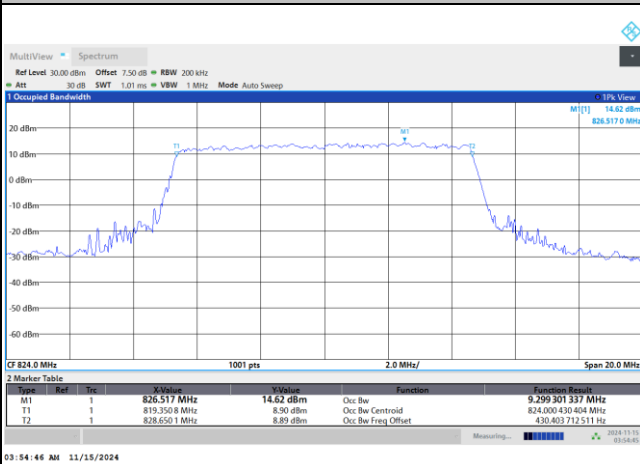
FR1 n26 / 10MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

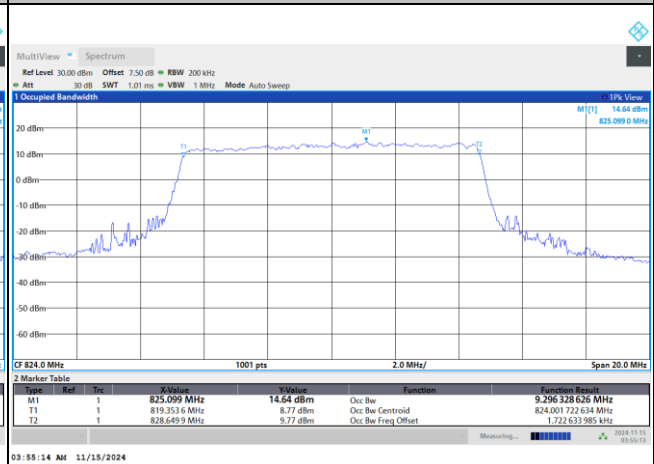


FR1 n26 / 10MHz / CP OFDM / 824MHz / Full RB

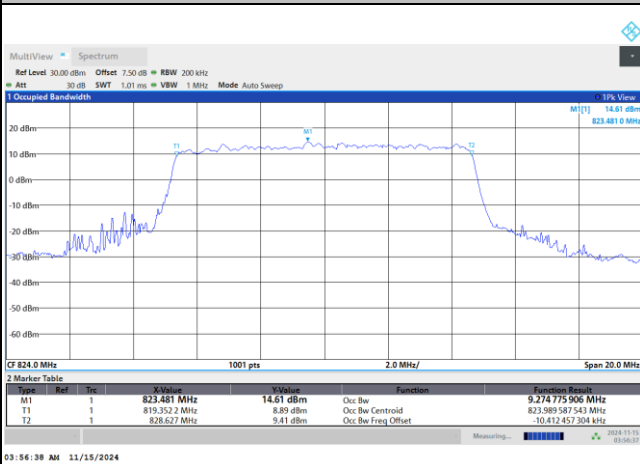
QPSK



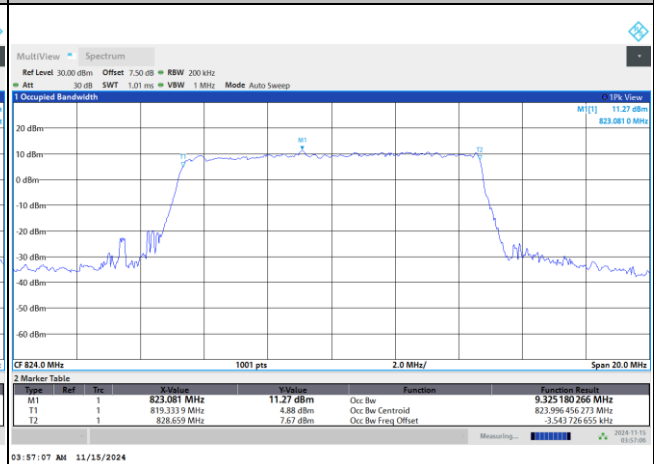
16QAM



64QAM



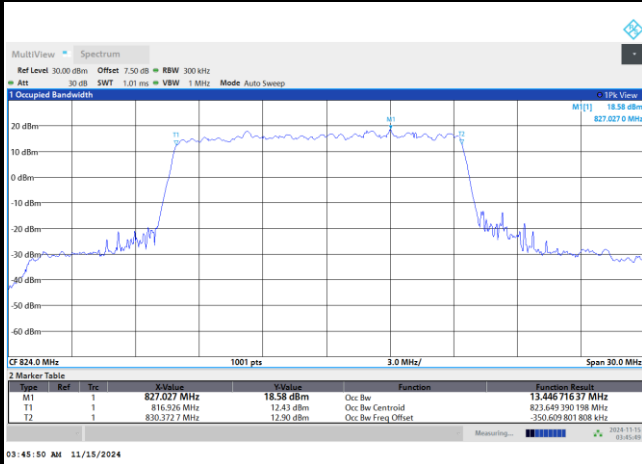
256QAM





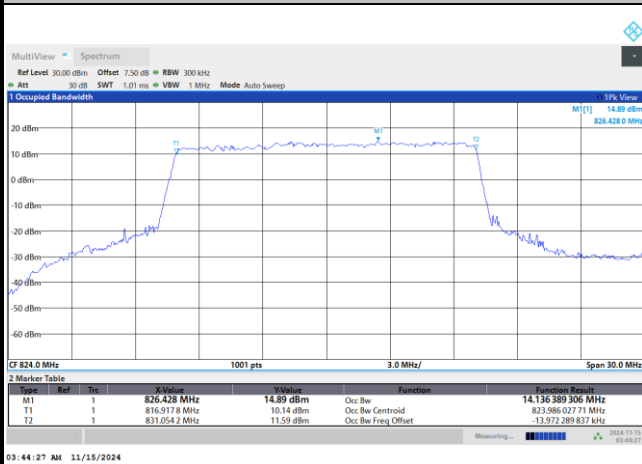
FR1 n26 / 15MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

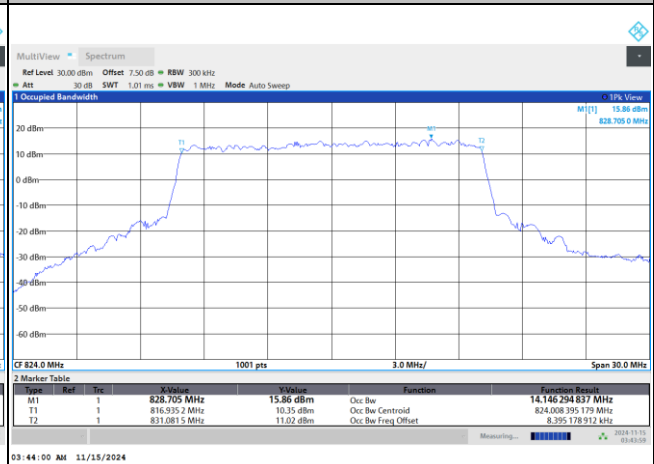


FR1 n26 / 15MHz / CP OFDM / 824MHz / Full RB

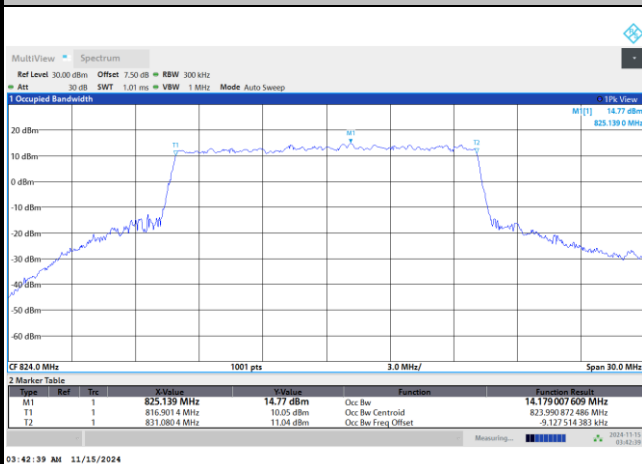
QPSK



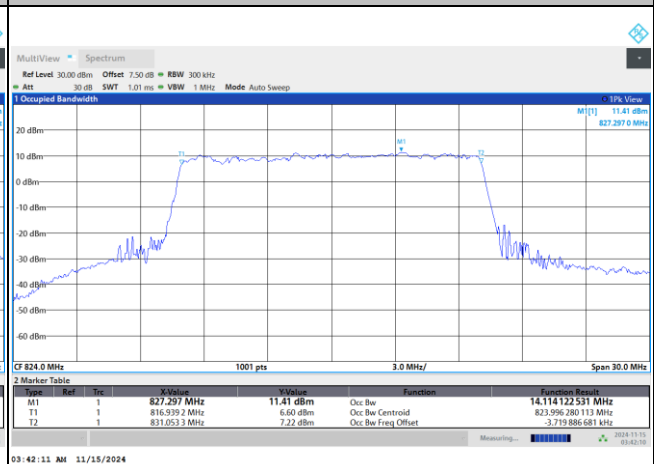
16QAM



64QAM



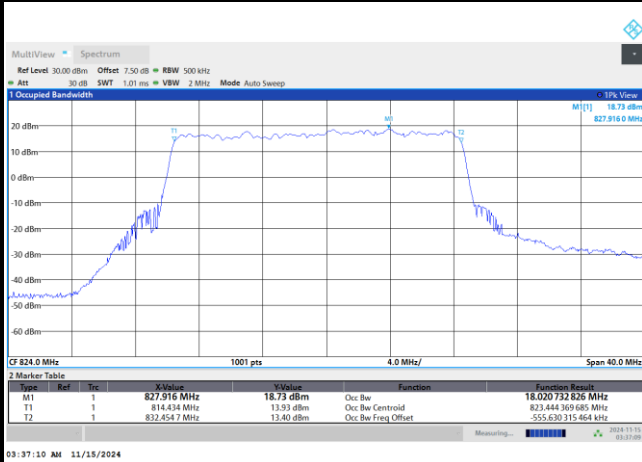
256QAM





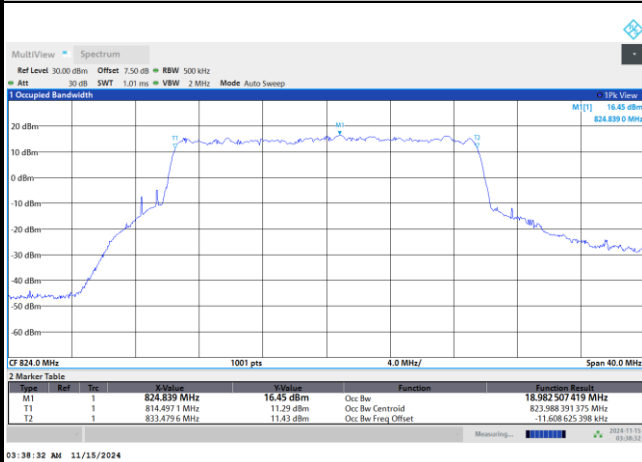
FR1 n26 / 20MHz / DFT-S OFDM / 824MHz / Full RB

PI/2 BPSK

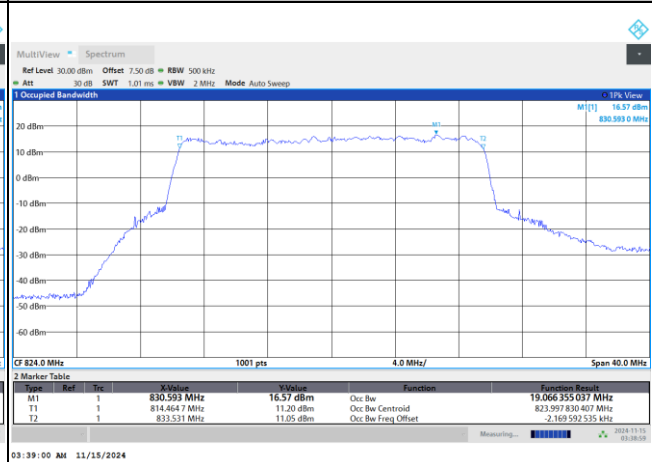


FR1 n26 / 20MHz / CP OFDM / 824MHz / Full RB

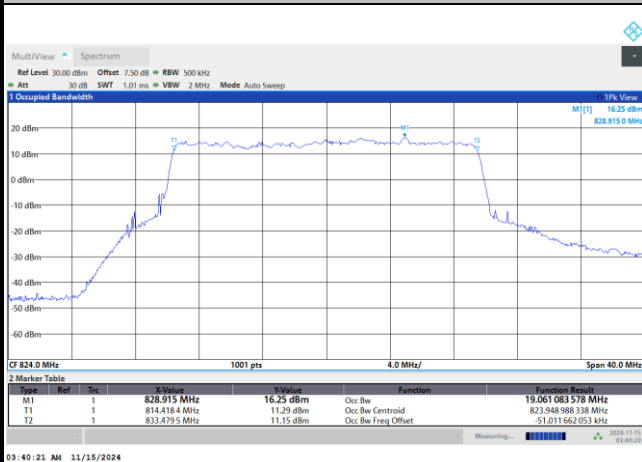
QPSK



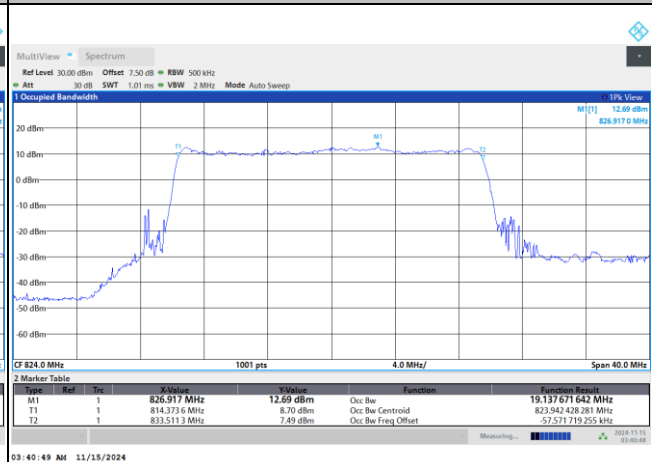
16QAM



64QAM



256QAM



Frequency Stability

Test Conditions		FR1 n26 (BPSK) / 824MHz	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5 ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0014	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0013	

Note: Normal Voltage = 3.8 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.2 V.

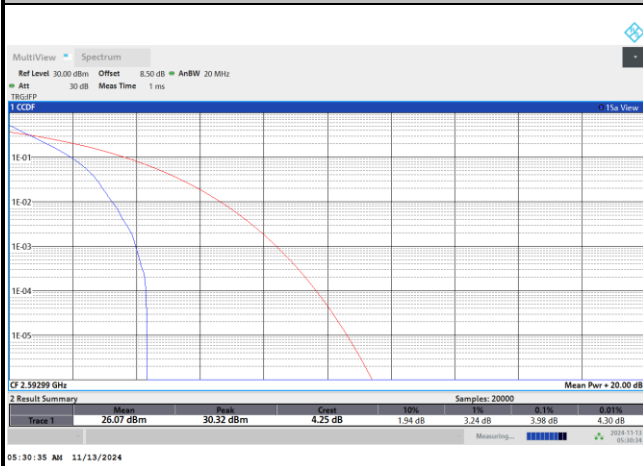
**FR1 n41****Peak-to-Average Ratio**

Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.98	4.62	5.58	5.92	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.38				PASS

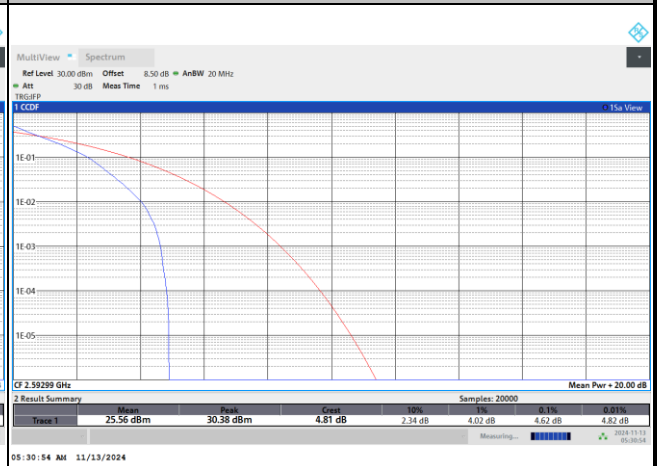


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

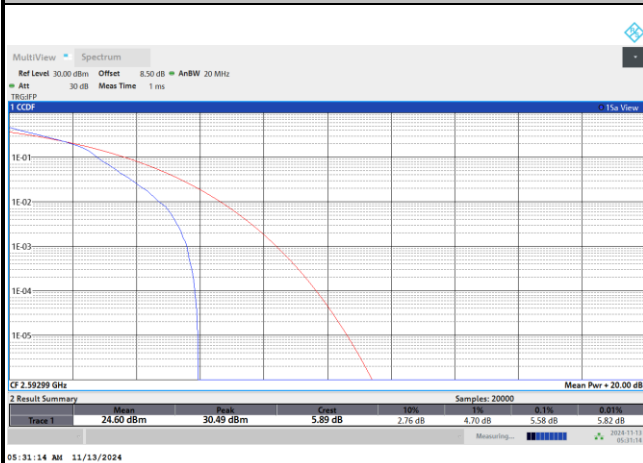
PI/2 BPSK



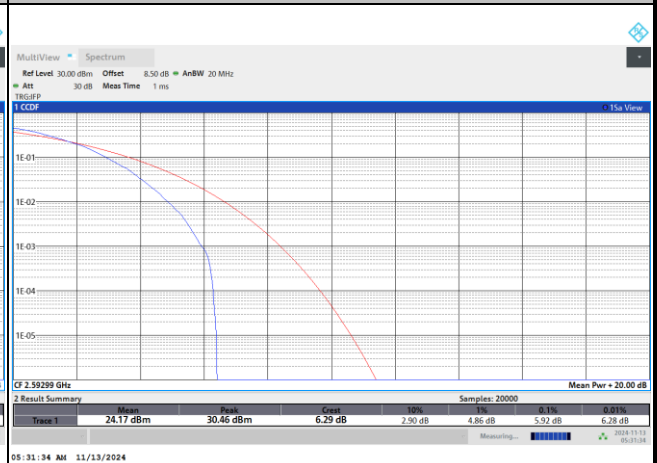
QPSK



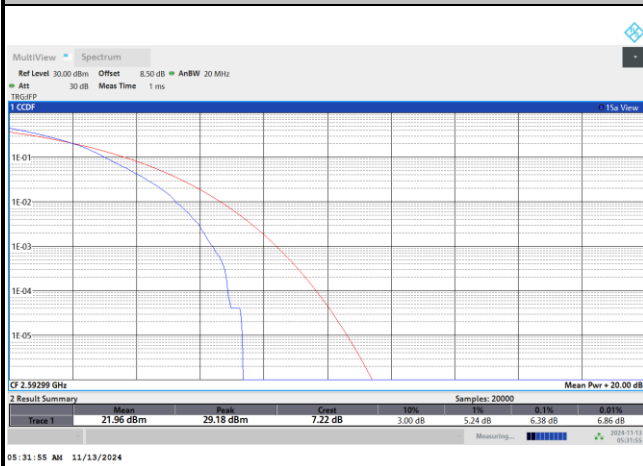
16QAM



64QAM



256QAM



**26dB Bandwidth**

Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	13.23	16.19	23.89	-	33.22	43.25	50.20	65.05
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	70.70	82.49	94.14	103.20				

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	12.07	12.17	17.55	19.23	24.90	23.73	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	12.46	13.43	17.81	18.09	24.66	24.61	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	33.02	34.74	43.59	44.37	52.85	52.42	66.10	66.37
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	33.50	33.55	44.20	44.29	53.37	52.53	64.90	65.38
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	75.85	75.53	83.84	83.61	93.80	96.22	104.14	106.00
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	73.21	75.05	83.82	82.15	96.74	94.29	106.05	103.86