

SC Mode- ANT3

FREQUENCY ERROR vs. VOLTAGE									Limit (MHz)		PASS/ FAIL
Voltage (Volts)	Test result (MHz)										
	5MHz		10MHz		15MHz		20MHz				
	619.5MHz	649.5MHz	622MHz	647MHz	624.5MHz	644.5MHz	627MHz	642MHz	Low Edge	High Edge	
-40.5	617.260013	651.740021	617.339990	651.620014	617.449988	651.549985	617.469984	651.480003	617	652	PASS
-58.5	617.260007	651.739993	617.340029	651.620020	617.450002	651.550011	617.470022	651.480002	617	652	PASS

FREQUENCY ERROR vs. Temperature									Limit (MHz)		PASS/ FAIL
Temp. (°C)	Test result (MHz)										
	5MHz		10MHz		15MHz		20MHz				
	619.5MHz	649.5MHz	622MHz	647MHz	624.5MHz	644.5MHz	627MHz	642MHz	Low Edge	High Edge	
55	617.259975	651.740003	617.340021	651.620002	617.449997	651.549983	617.470019	651.480001	617	652	PASS
50	617.260013	651.740013	617.339971	651.619983	617.450004	651.549982	617.469991	651.479970	617	652	PASS
40	617.259986	651.740027	617.339997	651.620006	617.449991	651.550012	617.469975	651.480026	617	652	PASS
30	617.259977	651.740027	617.340003	651.619977	617.449991	651.550007	617.470009	651.479978	617	652	PASS
20	617.259978	651.739997	617.339970	651.619995	617.450015	651.549991	617.469982	651.479980	617	652	PASS
10	617.260016	651.739993	617.339992	651.620021	617.449997	651.549980	617.469987	651.480016	617	652	PASS
0	617.259989	651.739976	617.339988	651.619998	617.449971	651.549984	617.469976	651.479997	617	652	PASS
-10	617.260003	651.739989	617.339998	651.619997	617.450005	651.549984	617.469994	651.479986	617	652	PASS
-20	617.259989	651.739975	617.339995	651.620029	617.450003	651.549972	617.470016	651.480027	617	652	PASS
-30	617.259970	651.739971	617.339976	651.620013	617.450015	651.550021	617.469992	651.480022	617	652	PASS
-40	617.260020	651.740026	617.339990	651.620007	617.449985	651.549970	617.470018	651.479976	617	652	PASS

CA Mode Non Contiguous

FREQUENCY ERROR vs. VOLTAGE									Limit (MHz)		PASS/ FAIL
Voltage (Volts)	Test result (MHz)										
	5MHz+5MHz										
	ANT0		ANT1		ANT2		ANT3				
	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	Low Edge	High Edge	
-40.5	617.259973	651.740026	617.260023	651.739989	617.260025	651.740014	617.260028	651.739978	617	652	PASS
-58.5	617.259997	651.740026	617.259971	651.739989	617.260000	651.740003	617.259999	651.739997	617	652	PASS

FREQUENCY ERROR vs. Temperature									Limit (MHz)		PASS/ FAIL
Temp. (°C)	Test result (MHz)										
	5MHz+5MHz										
	ANT0		ANT1		ANT2		ANT3				
	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	619.5MHz+ 649.5MHz	Low Edge	High Edge	
55	617.259981	651.739972	617.259992	651.739984	617.259978	651.740024	617.259980	651.739992	617	652	PASS
50	617.260021	651.739988	617.259988	651.739992	617.260028	651.739994	617.259983	651.740026	617	652	PASS
40	617.259992	651.740001	617.260019	651.739971	617.259996	651.739992	617.259977	651.739971	617	652	PASS
30	617.260003	651.739983	617.259979	651.739999	617.260021	651.739998	617.259995	651.739995	617	652	PASS
20	617.260019	651.740018	617.260009	651.740019	617.259973	651.739974	617.259986	651.739978	617	652	PASS
10	617.259998	651.739990	617.259987	651.739976	617.260012	651.740023	617.260010	651.740010	617	652	PASS
0	617.259974	651.740019	617.259981	651.740015	617.259992	651.739988	617.260004	651.739974	617	652	PASS
-10	617.259987	651.740021	617.259971	651.740005	617.259989	651.740010	617.260000	651.740026	617	652	PASS
-20	617.259976	651.740017	617.259972	651.740025	617.260022	651.740001	617.259978	651.739976	617	652	PASS
-30	617.260015	651.739983	617.260015	651.739972	617.259999	651.740001	617.259979	651.740009	617	652	PASS
-40	617.259998	651.740001	617.260020	651.739996	617.259989	651.739999	617.259992	651.739987	617	652	PASS

CA Mode Contiguous

FREQUENCY ERROR vs. VOLTAGE									Limit (MHz)		PASS/ FAIL
Voltage (Volts)	Test result (MHz)										
	5MHz+5MHz										
	ANT0		ANT1		ANT2		ANT3				
	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	Low Edge	High Edge	
-40.5	617.280005	651.739999	617.279971	651.719995	617.279975	651.719971	617.279995	651.720014	617	652	PASS
-58.5	617.280012	651.740013	617.279988	651.719999	617.280013	651.720028	617.279996	651.720012	617	652	PASS

FREQUENCY ERROR vs. Temperature									Limit (MHz)		PASS/ FAIL
Temp. (°C)	Test result (MHz)										
	5MHz+5MHz										
	ANT0		ANT1		ANT2		ANT3				
	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	619.5MH + 624.5MHz	644.5MHz+ 649.5MHz	Low Edge	High Edge	
55	617.280014	651.739983	617.279995	651.719993	617.280028	651.719990	617.280029	651.720008	617	652	PASS
50	617.280001	651.739995	617.280017	651.719999	617.279975	651.720020	617.279972	651.720010	617	652	PASS
40	617.280015	651.739977	617.280019	651.720015	617.280024	651.720021	617.280020	651.719997	617	652	PASS
30	617.279976	651.739995	617.280020	651.719978	617.280028	651.719983	617.279988	651.719994	617	652	PASS
20	617.279982	651.739996	617.279983	651.719975	617.280014	651.719992	617.280022	651.719992	617	652	PASS
10	617.280005	651.740023	617.279991	651.719990	617.279981	651.720020	617.279983	651.720012	617	652	PASS
0	617.279978	651.739976	617.279984	651.720022	617.279985	651.719971	617.280021	651.720001	617	652	PASS
-10	617.279973	651.739977	617.279987	651.720002	617.280022	651.720014	617.280029	651.719974	617	652	PASS
-20	617.280007	651.739994	617.280000	651.720024	617.279975	651.720008	617.279987	651.719991	617	652	PASS
-30	617.279989	651.739970	617.280022	651.720005	617.280016	651.719972	617.279992	651.720016	617	652	PASS
-40	617.279978	651.739996	617.280018	651.720029	617.280020	651.719997	617.279984	651.720021	617	652	PASS

FREQUENCY ERROR vs. VOLTAGE									Limit (MHz)		PASS/ FAIL
Voltage (Volts)	Test result (MHz)										
	15MHz+20MHz										
	ANT0		ANT1		ANT2		ANT3				
	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	Low Edge	High Edge	
-40.5	617.279997	651.739970	617.280025	651.719975	617.280005	651.719990	617.280023	651.719996	617	652	PASS
-58.5	617.279996	651.740018	617.279979	651.720000	617.280005	651.720027	617.279997	651.719973	617	652	PASS

FREQUENCY ERROR vs. Temperature									Limit (MHz)		PASS/ FAIL
Temp. (°C)	Test result (MHz)										
	15MHz+20MHz										
	ANT0		ANT1		ANT2		ANT3				
	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	624.5MHz+ 642MHz	Low Edge	High Edge	
55	617.279986	651.740020	617.279978	651.720020	617.280011	651.719995	617.280019	651.720007	617	652	PASS
50	617.279976	651.739983	617.279977	651.720017	617.279979	651.719984	617.279993	651.720021	617	652	PASS
40	617.280022	651.739980	617.279981	651.719982	617.280009	651.719985	617.280024	651.720020	617	652	PASS
30	617.279995	651.739995	617.279993	651.720012	617.280024	651.720019	617.279983	651.720016	617	652	PASS
20	617.279983	651.740028	617.280006	651.719975	617.280014	651.719970	617.280012	651.720028	617	652	PASS
10	617.279972	651.739996	617.280009	651.720000	617.279973	651.719988	617.280002	651.719981	617	652	PASS
0	617.279995	651.740003	617.279975	651.720002	617.280010	651.719986	617.279989	651.720015	617	652	PASS
-10	617.279986	651.740010	617.279995	651.720010	617.280006	651.720007	617.280023	651.719973	617	652	PASS
-20	617.279975	651.739993	617.280017	651.719993	617.280014	651.719984	617.280027	651.719976	617	652	PASS
-30	617.279997	651.740005	617.280016	651.719984	617.279979	651.720022	617.279998	651.719982	617	652	PASS
-40	617.280012	651.740023	617.279972	651.719988	617.280023	651.720014	617.279991	651.720024	617	652	PASS

4.4 Emission Bandwidth Measurement

4.4.1 Limits of Emission Bandwidth Measurement

The frequency shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.4.2 Test Procedure

-26dBc Bandwidth

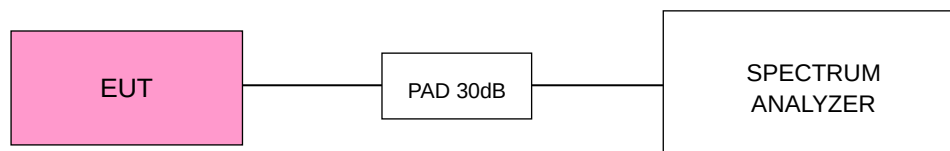
That emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

Occupied Bandwidth

All measurements were done at low, middle and high operational frequency range. EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 51kHz and VBW = 160kHz (Channel Bandwidth: 5MHz), RBW = 100kHz and VBW = 300kHz (Channel Bandwidth: 10MHz), RBW = 150kHz and VBW = 470kHz (Channel Bandwidth: 15MHz), RBW = 200kHz and VBW = 620kHz (Channel Bandwidth: 20MHz). The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

4.4.3 Test Setup



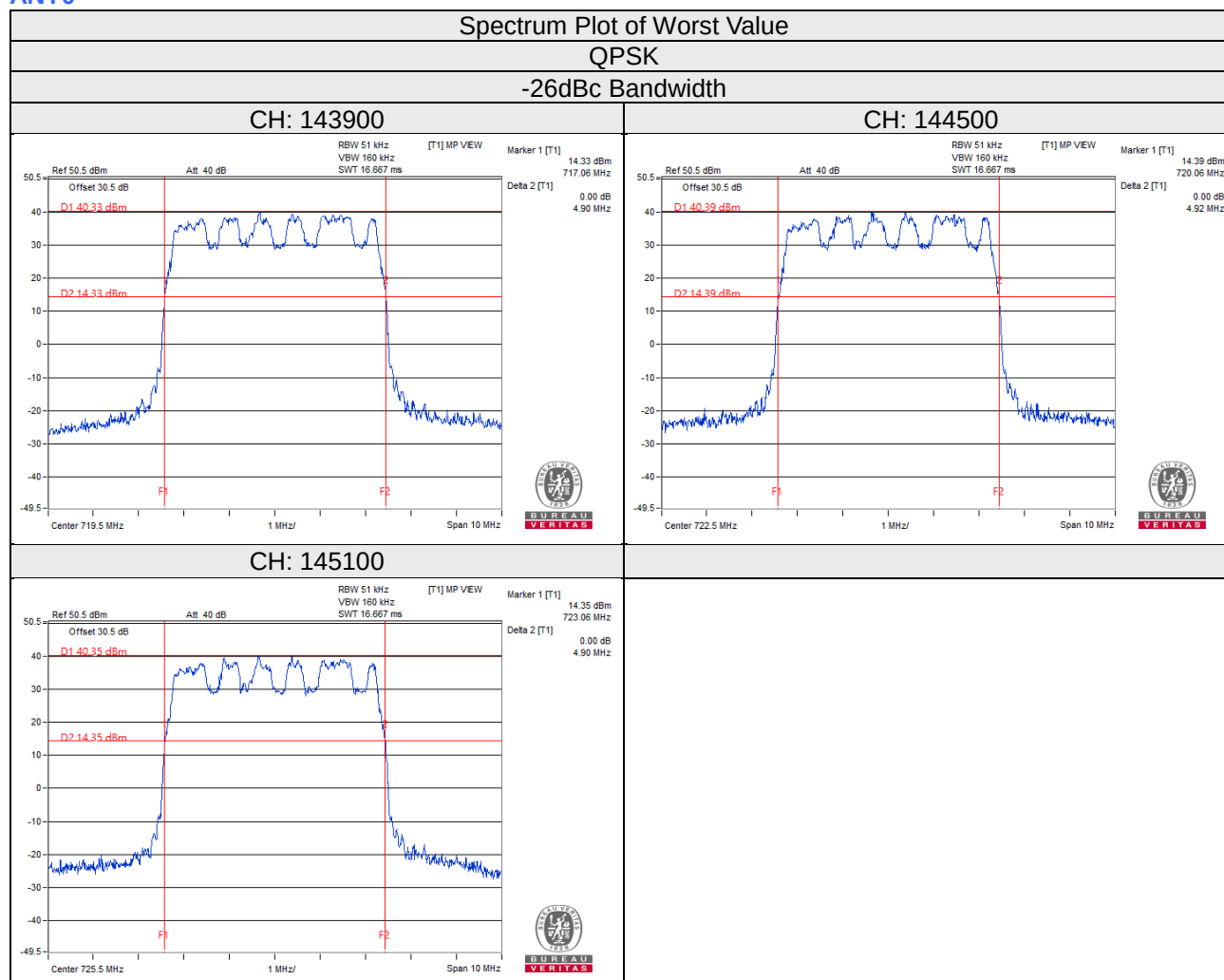
4.4.4 Test Results (-26dBc Bandwidth)

Band n29 Single Carrier

5MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)							
		ANT0				ANT1			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
143900	719.5	4.90	4.87	4.89	4.89	4.91	4.86	4.87	4.89
144500	722.5	4.92	4.88	4.89	4.89	4.93	4.88	4.89	4.88
145100	725.5	4.90	4.87	4.90	4.87	4.92	4.90	4.86	4.85

ANT0

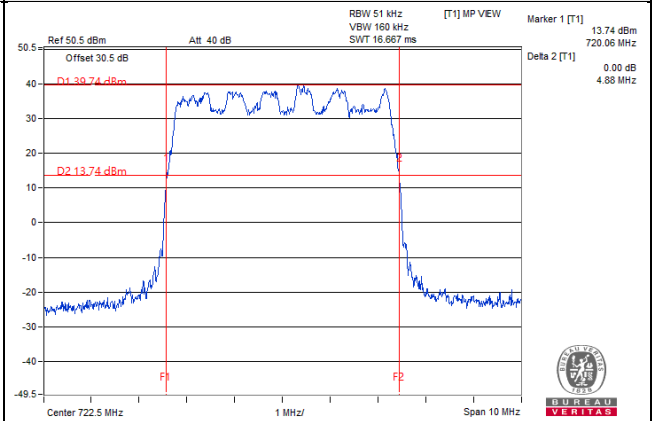
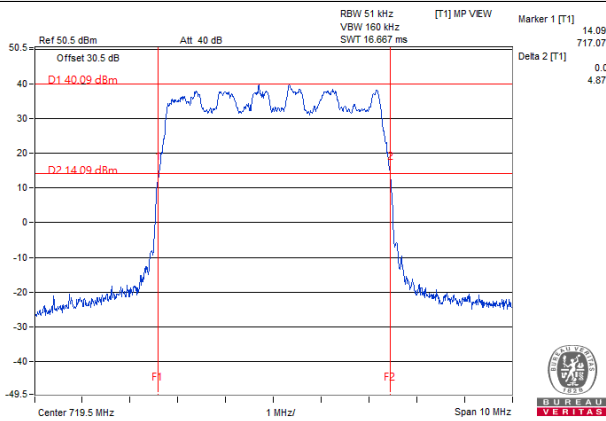


16QAM

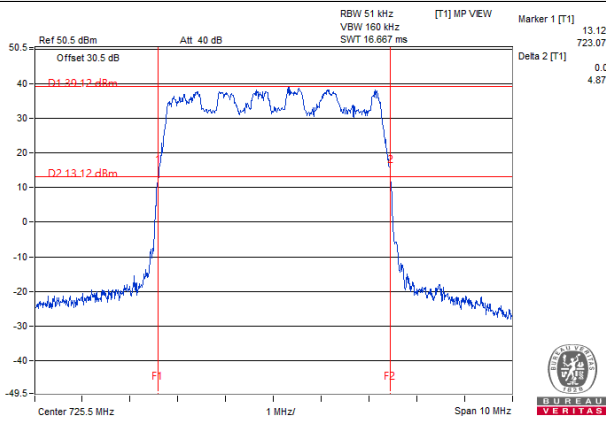
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100

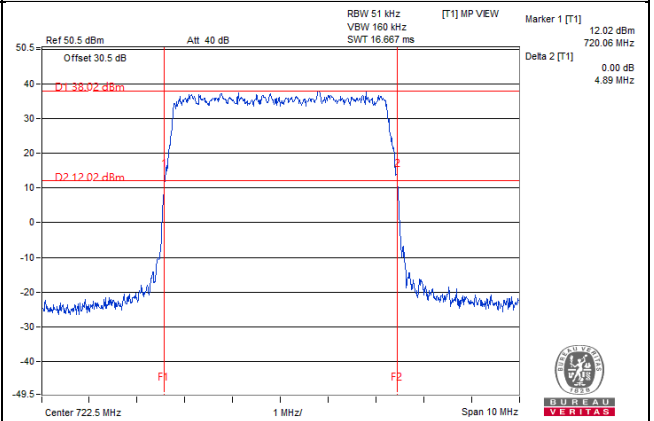
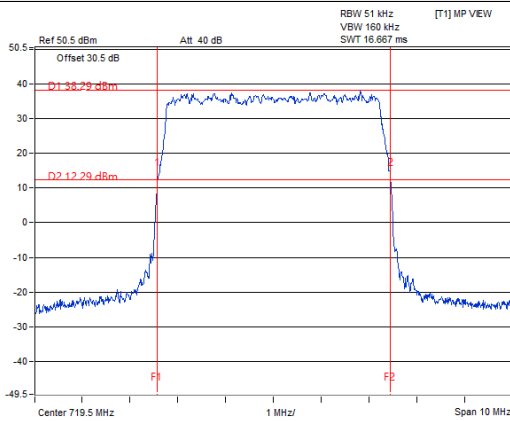


64QAM

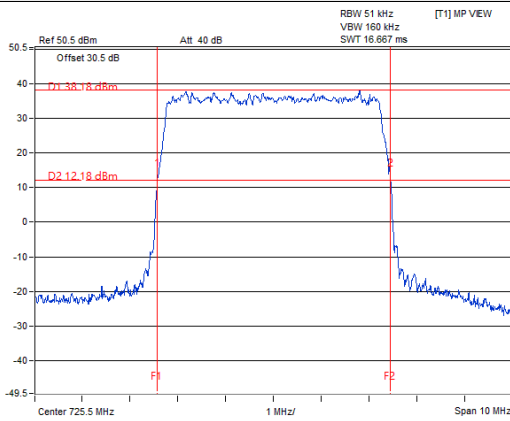
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100

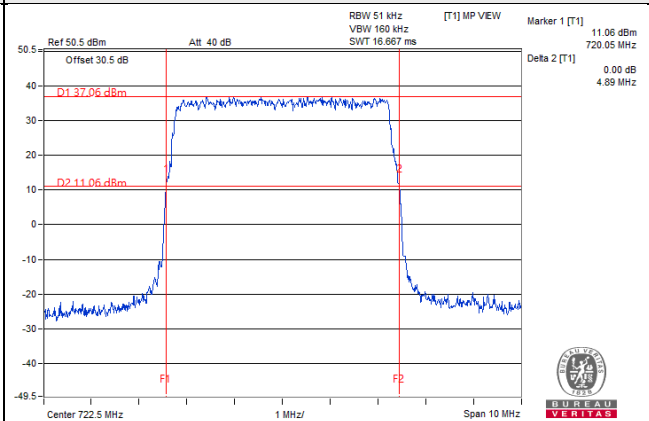
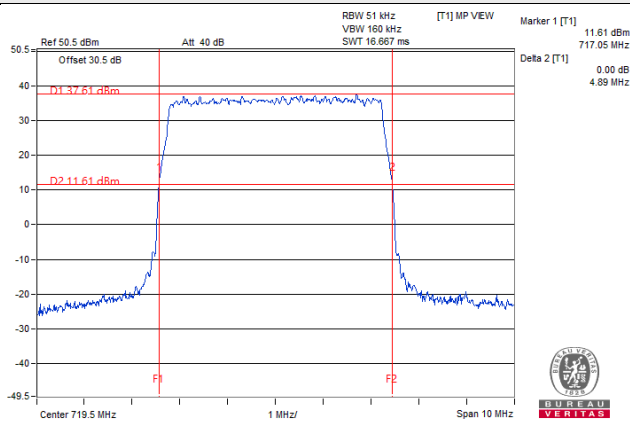


256QAM

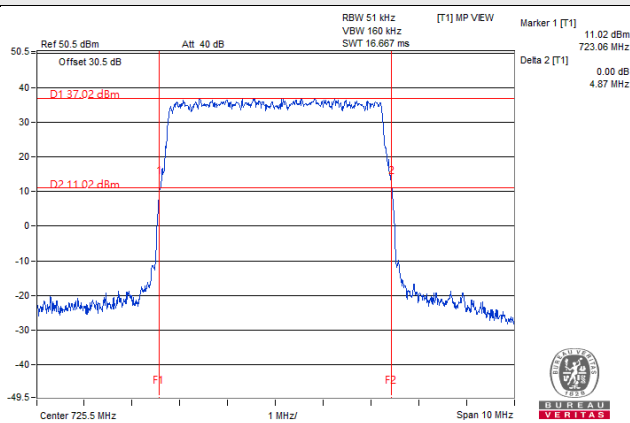
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100



ANT1

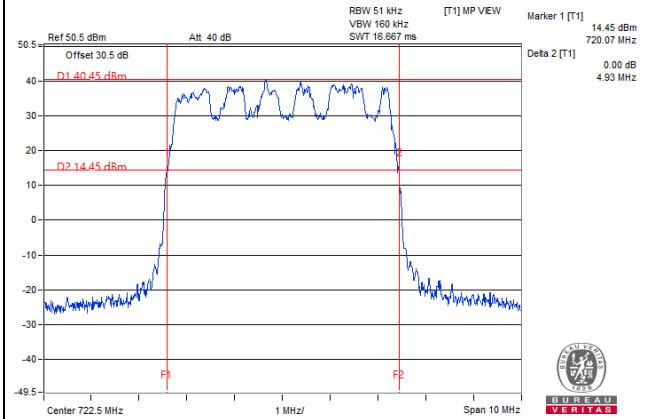
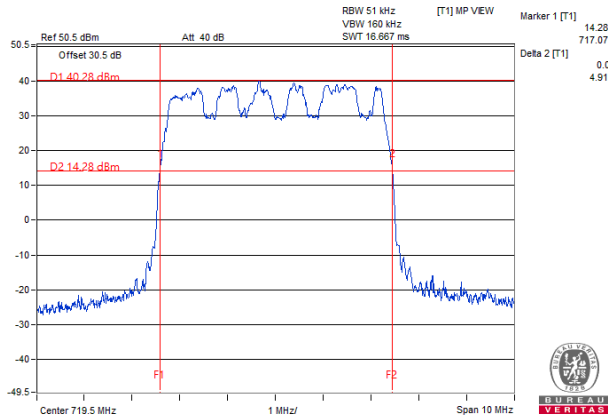
Spectrum Plot of Worst Value

QPSK

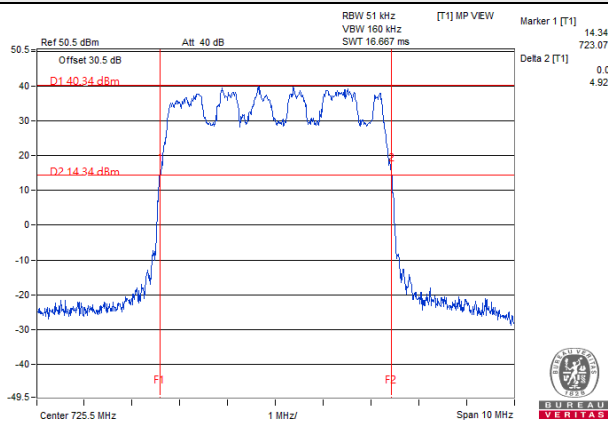
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100

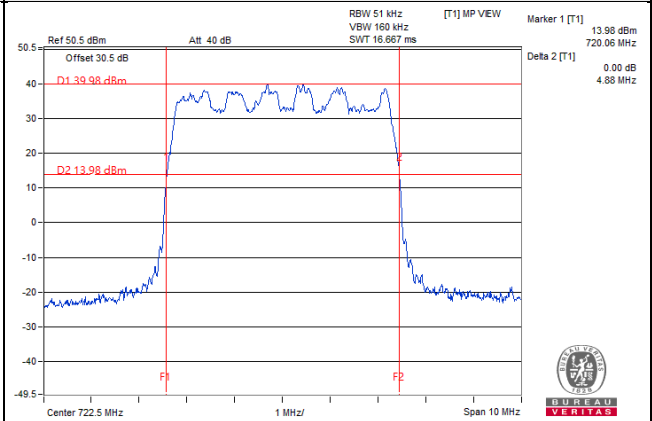
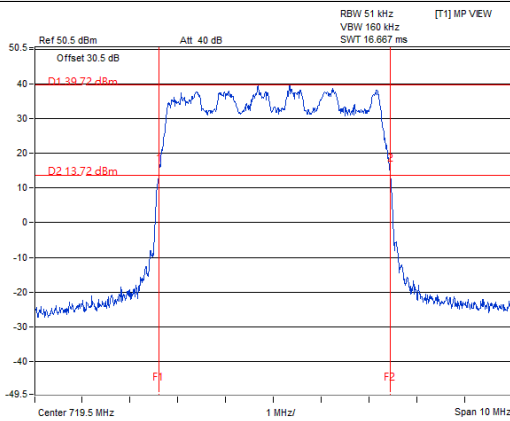


16QAM

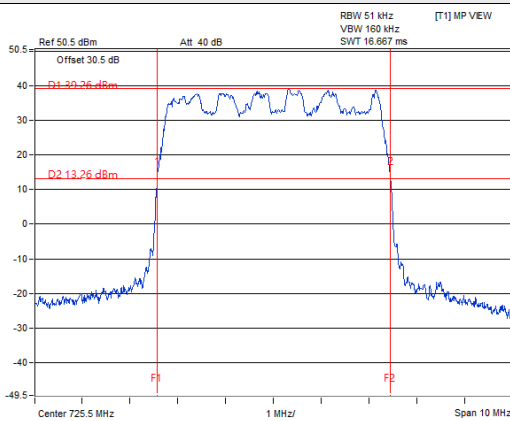
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100

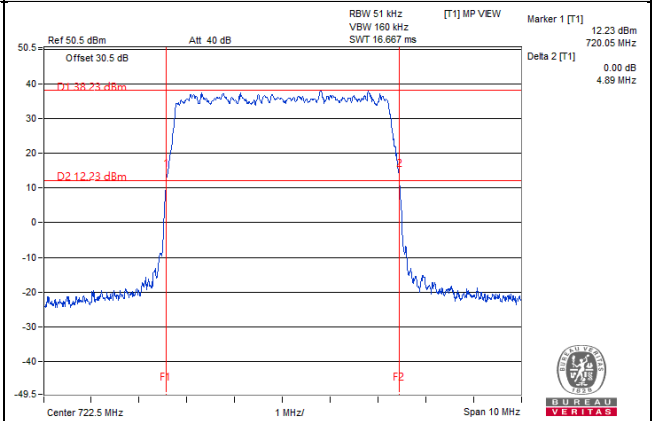
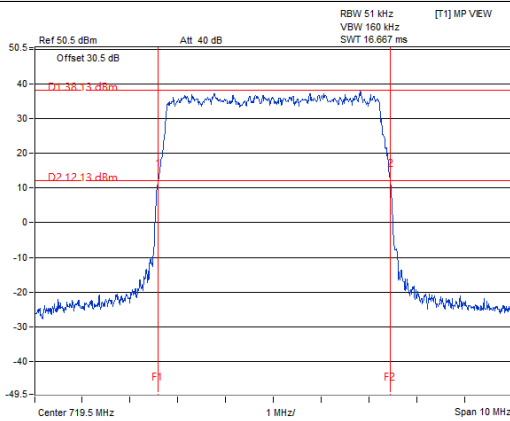


64QAM

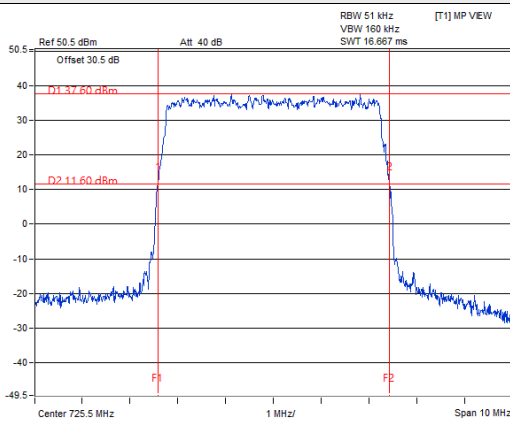
-26dBc Bandwidth

CH: 143900

CH: 144500



CH: 145100

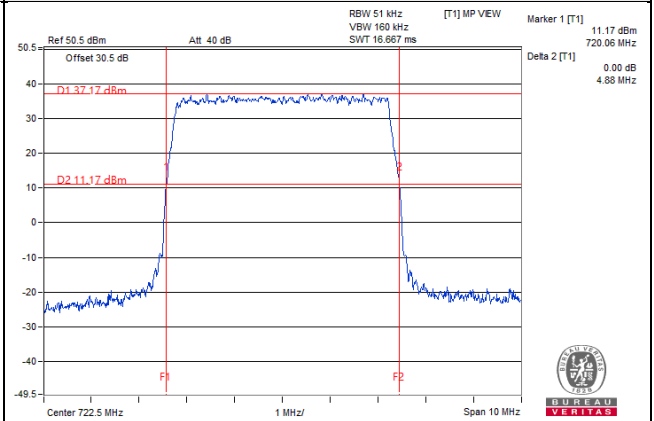
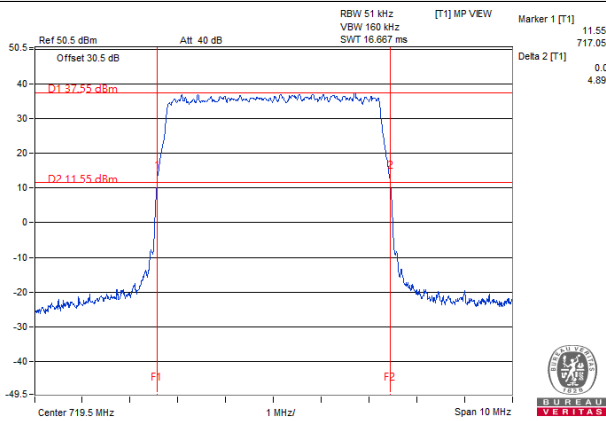


256QAM

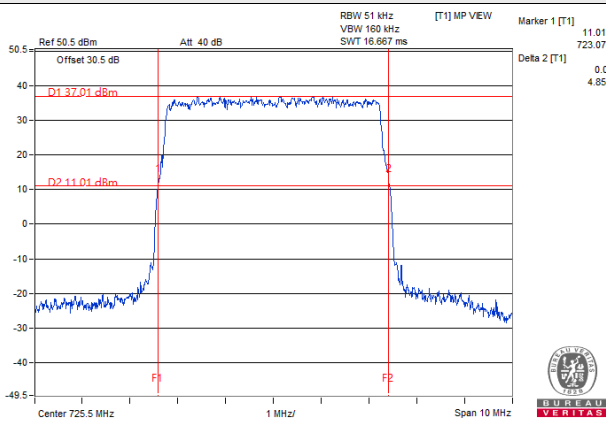
-26dBc Bandwidth

CH: 143900

CH: 144500



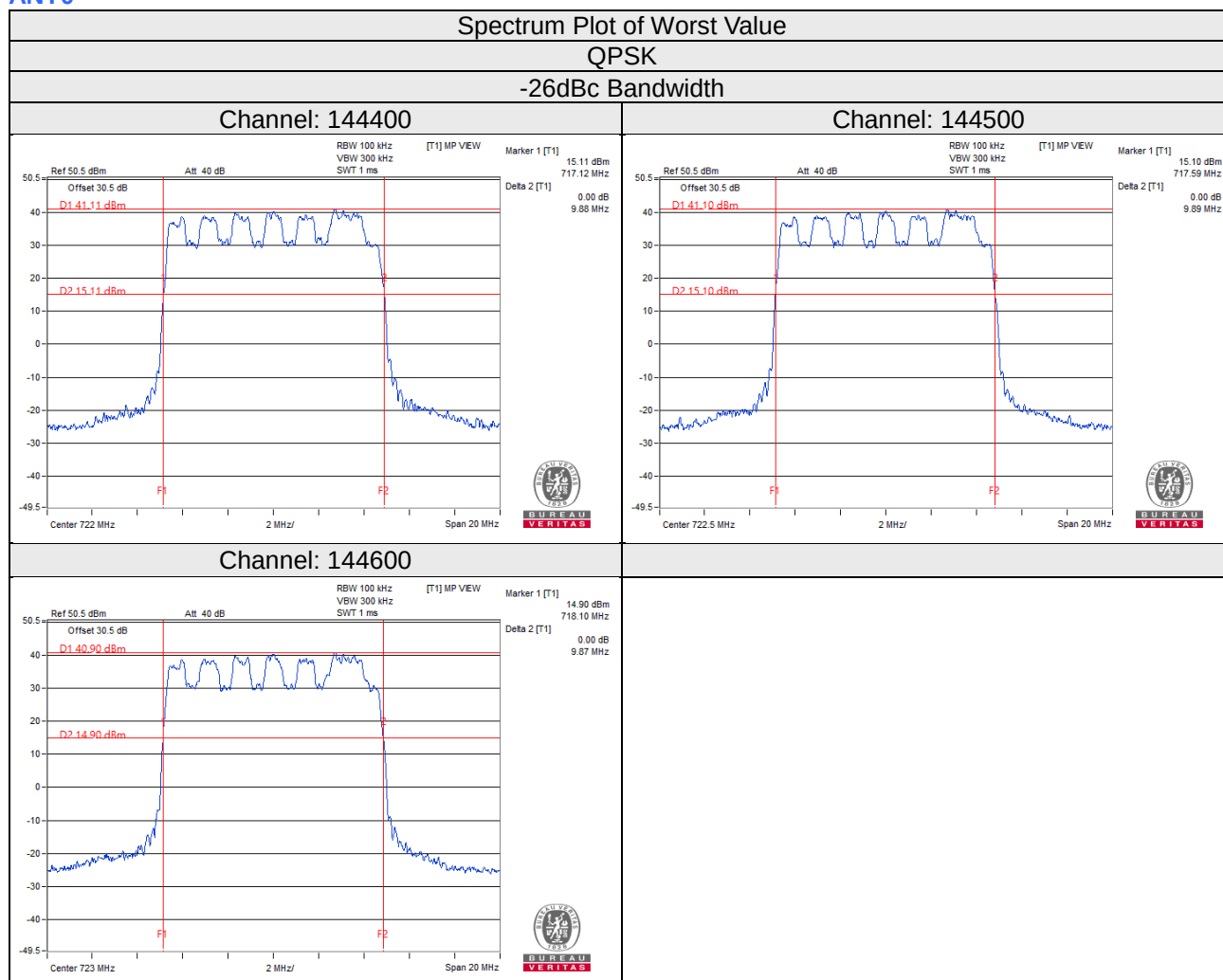
CH: 145100



10MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)							
		ANT0				ANT1			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
144400	722	9.88	9.75	9.84	9.86	9.90	9.77	9.84	9.84
144500	722.5	9.89	9.75	9.82	9.84	9.85	9.75	9.84	9.82
144600	723	9.87	9.80	9.84	9.88	9.88	9.79	9.85	9.83

ANT0

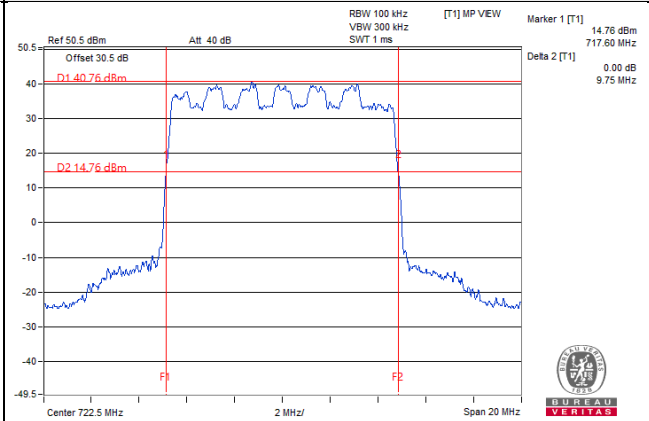
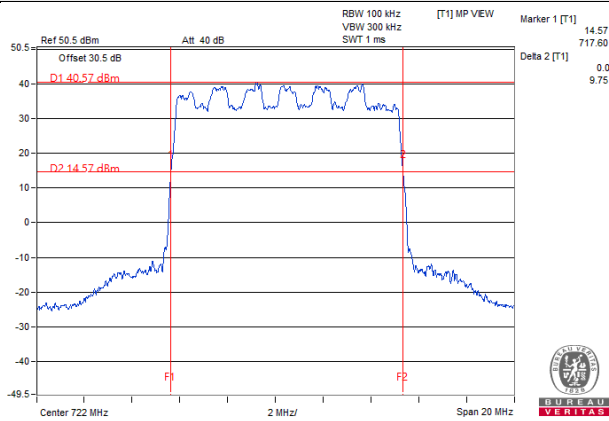


16QAM

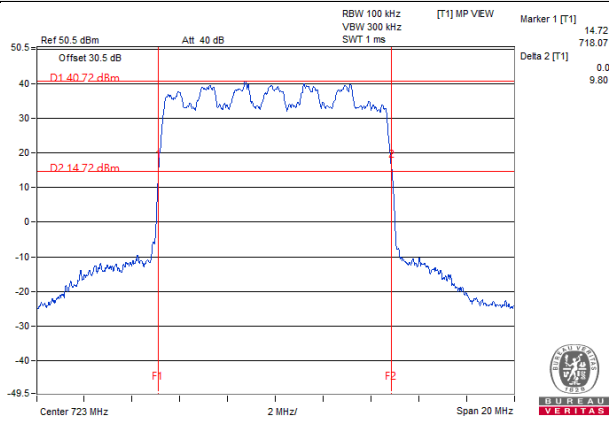
-26dBc Bandwidth

Channel: 144400

Channel: 144500



Channel: 144600

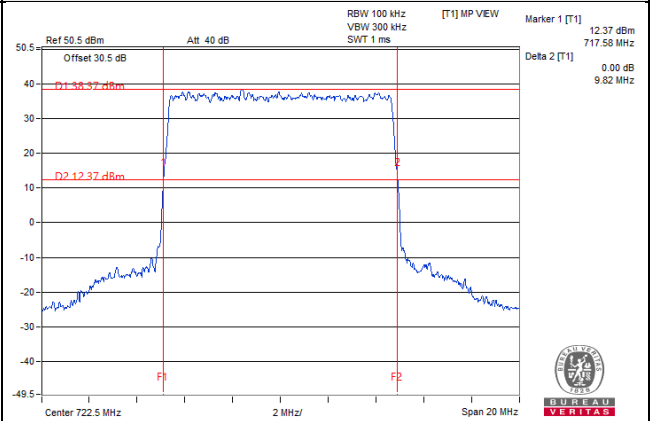
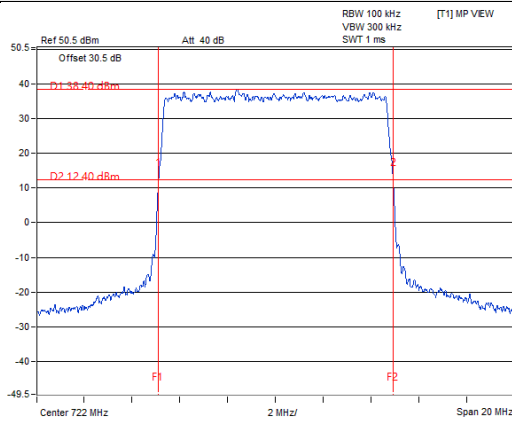


64QAM

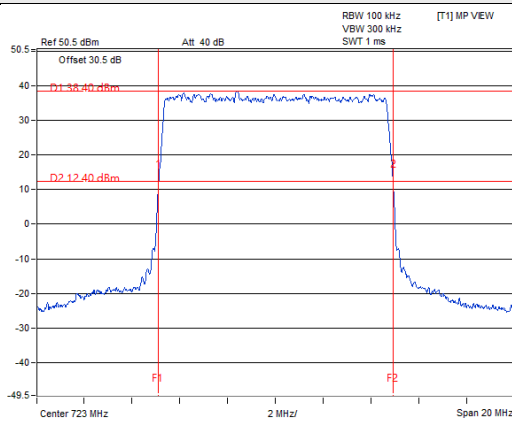
-26dBc Bandwidth

Channel: 144400

Channel: 144500



Channel: 144600

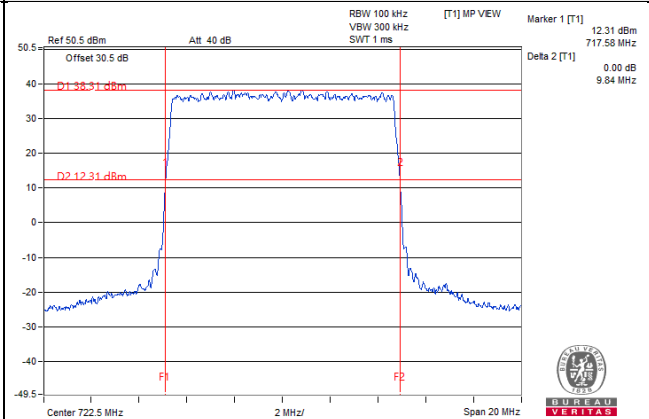
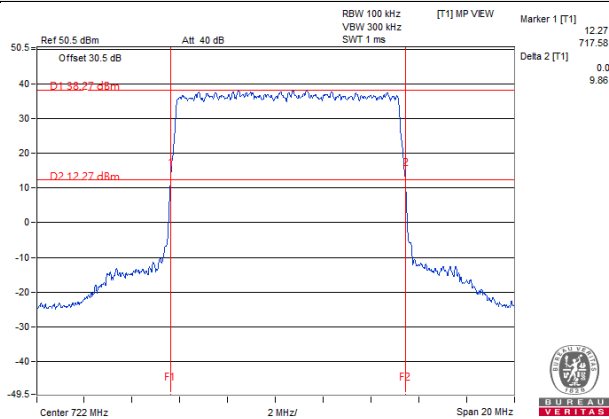


256QAM

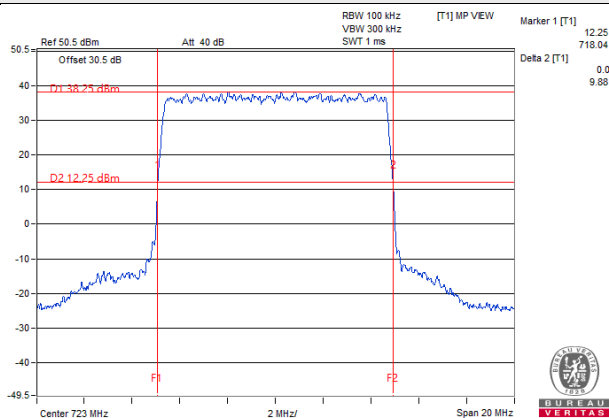
-26dBc Bandwidth

Channel: 144400

Channel: 144500



Channel: 144600



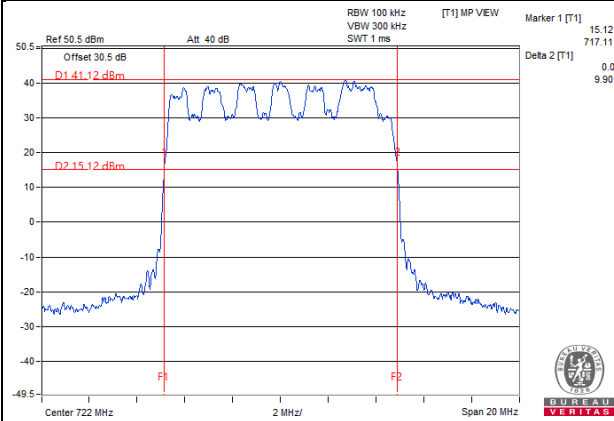
ANT1

Spectrum Plot of Worst Value

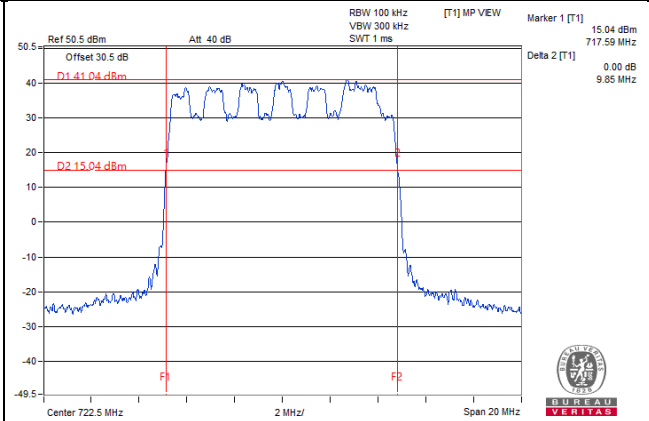
QPSK

-26dBc Bandwidth

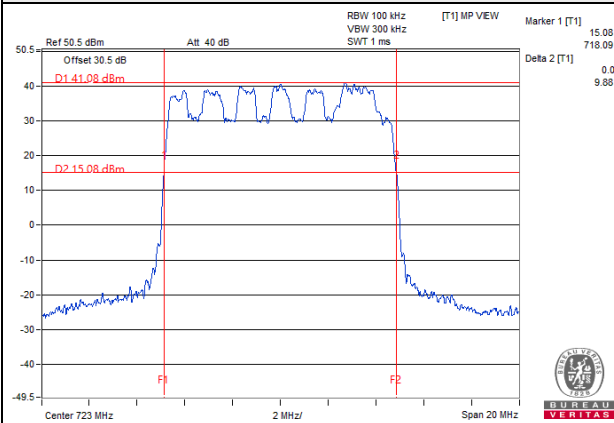
Channel: 144400



Channel: 144500



Channel: 144600

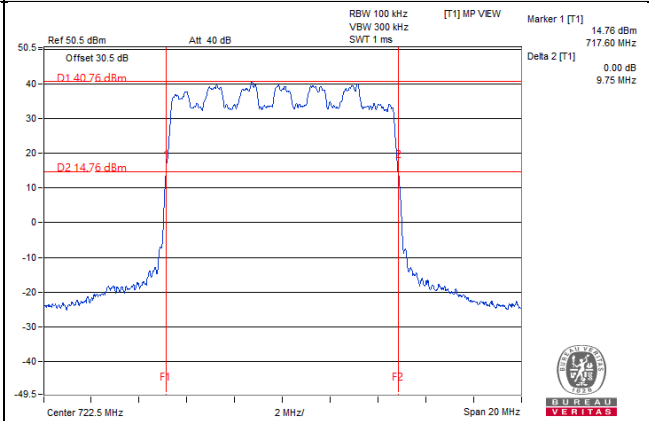
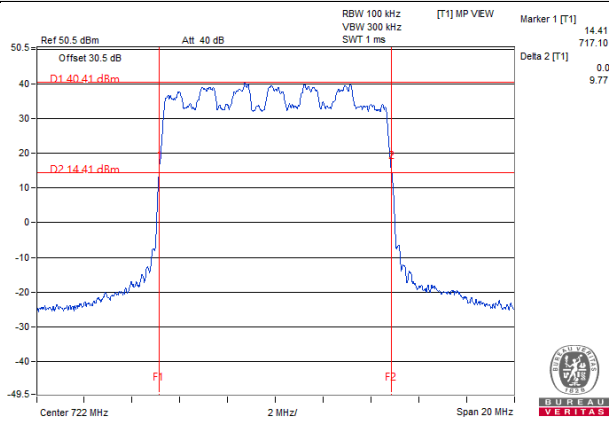


16QAM

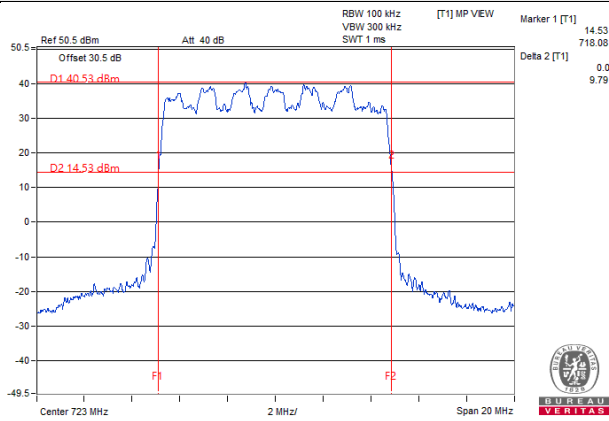
-26dBc Bandwidth

Channel: 144400

Channel: 144500



Channel: 144600

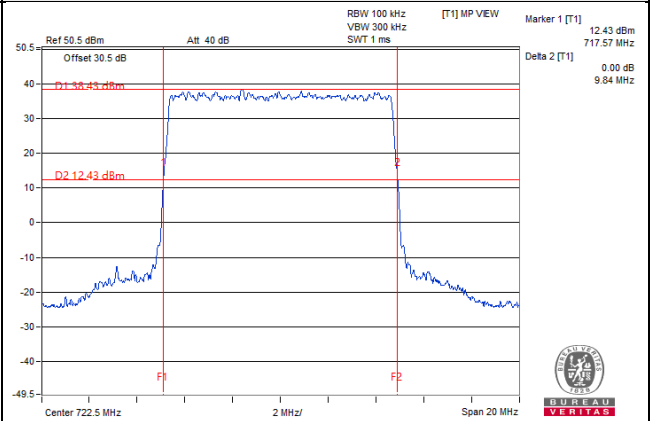
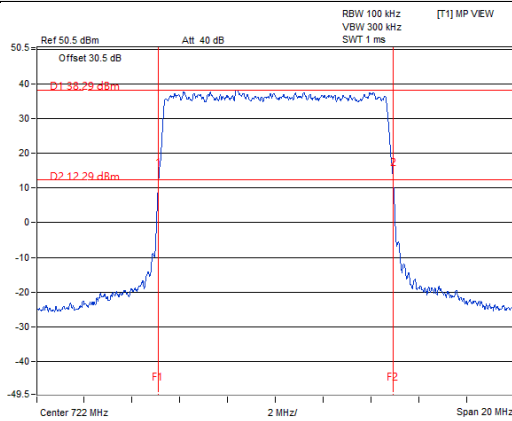


64QAM

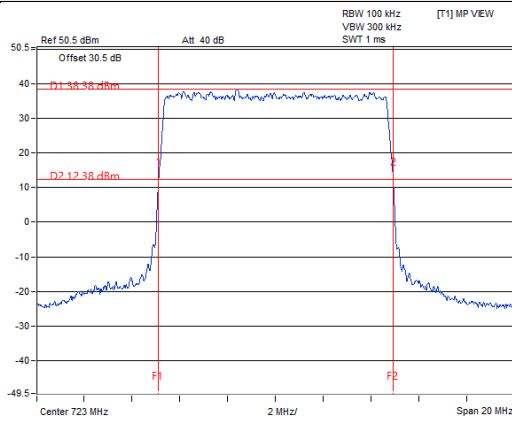
-26dBc Bandwidth

Channel: 144400

Channel: 144500



Channel: 144600

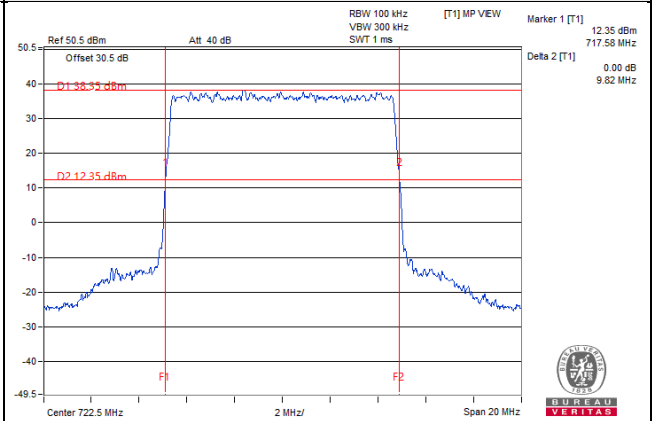
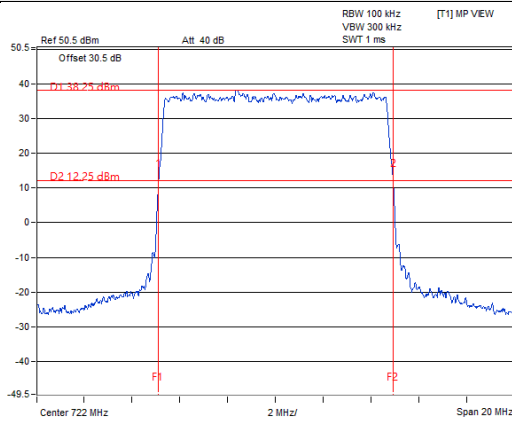


256QAM

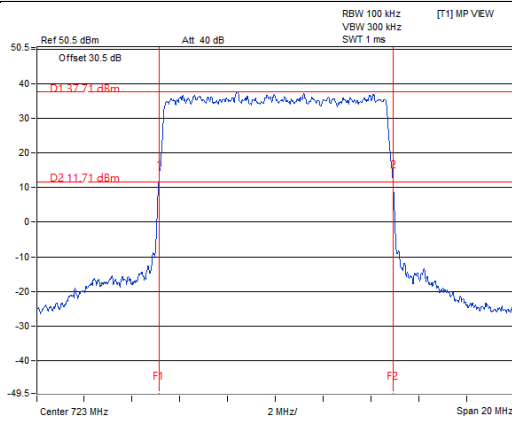
-26dBc Bandwidth

Channel: 143900

Channel: 144500



Channel: 145100

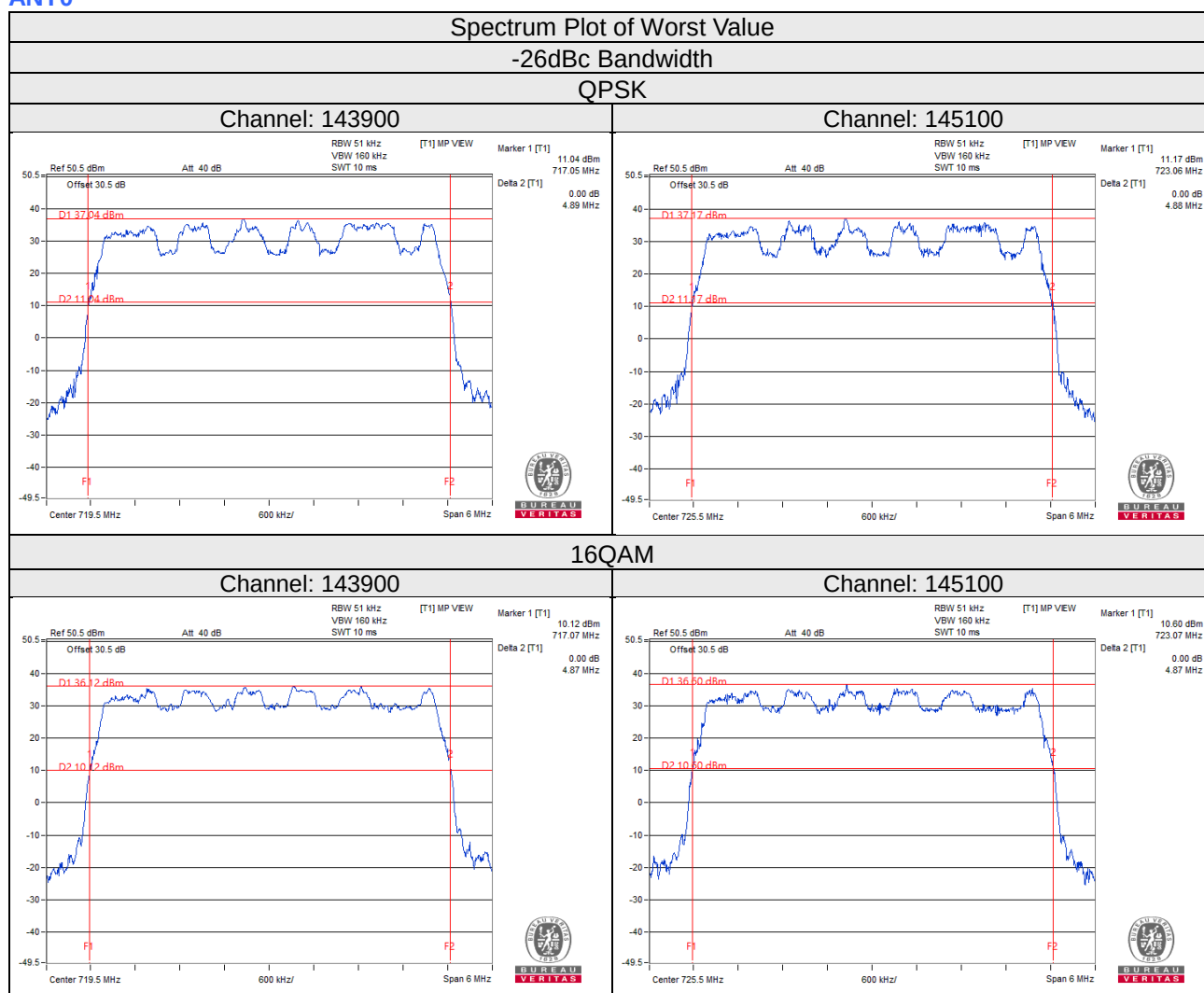


CA-NC Non-Contiguous

5MHz+5MHz

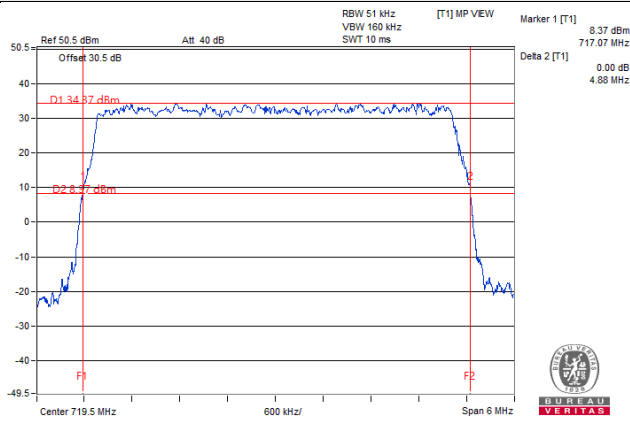
Channel Number	Freq. (MHz)	Carrier	26dB DOWN BANDWIDTH (MHz)							
			ANT0				ANT1			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
143900	719.5	Carrier 0	4.89	4.87	4.88	4.89	4.88	4.88	4.87	4.89
145100	725.5	Carrier 1	4.88	4.87	4.87	4.87	4.87	4.86	4.87	4.85
Total			8.99	8.98	9.77	9.74	9.75	9.76	9.75	9.74

ANT0

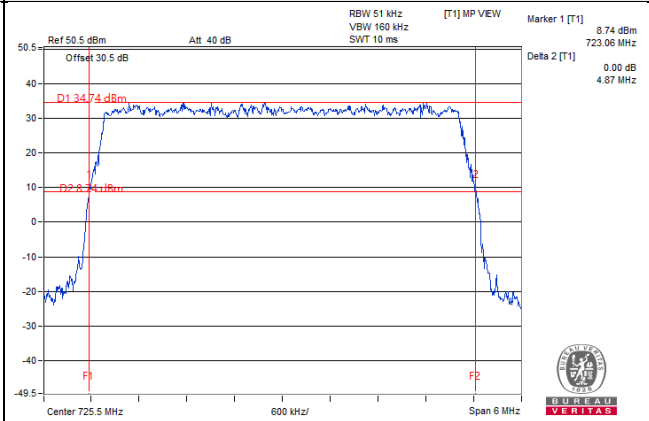


64QAM

Channel: 143900

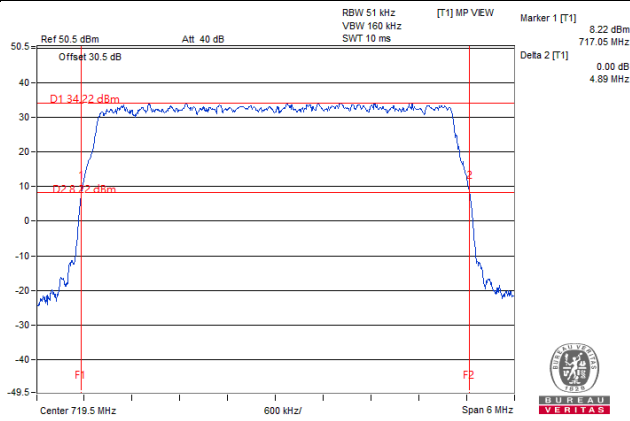


Channel: 145100

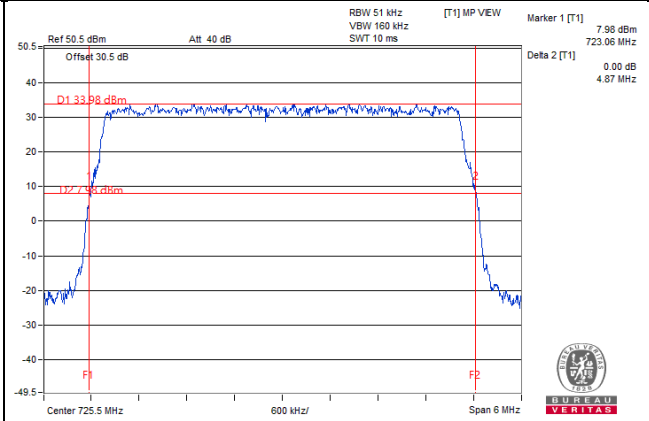


256QAM

Channel: 143900



Channel: 145100

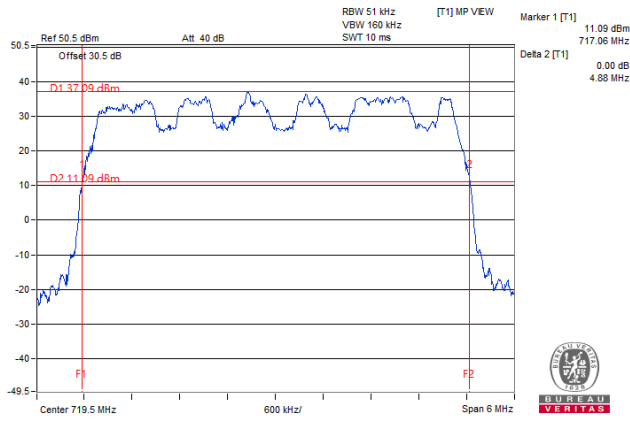


ANT1

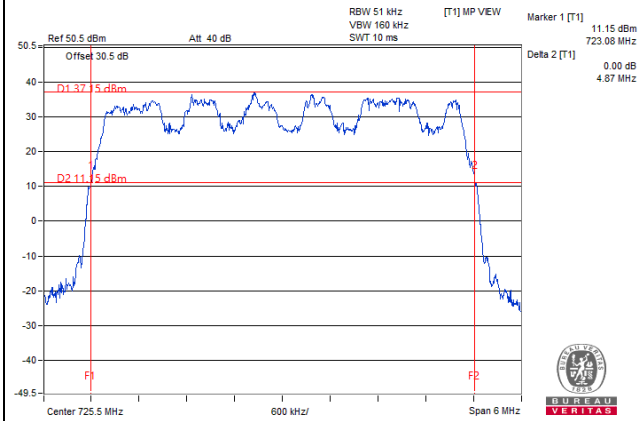
Spectrum Plot of Worst Value -26dBc Bandwidth

QPSK

Channel: 143900

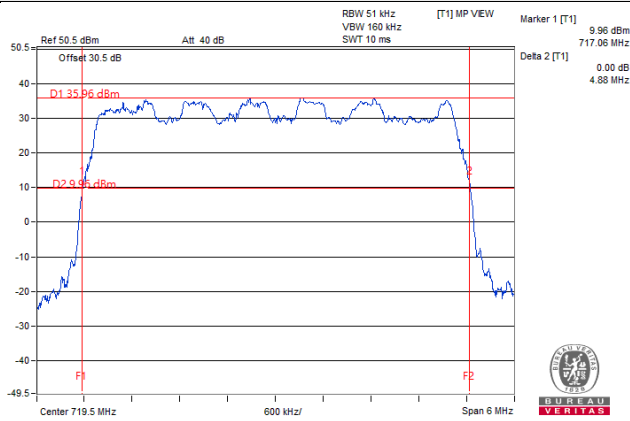


Channel: 145100

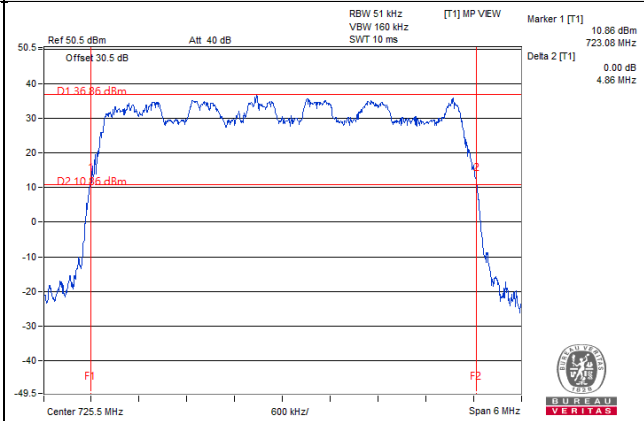


16QAM

Channel: 143900

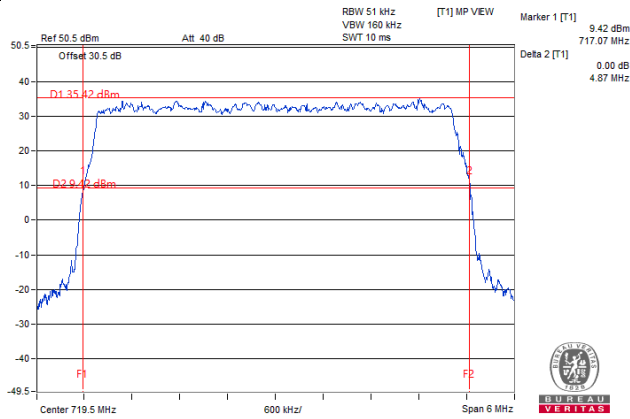


Channel: 145100

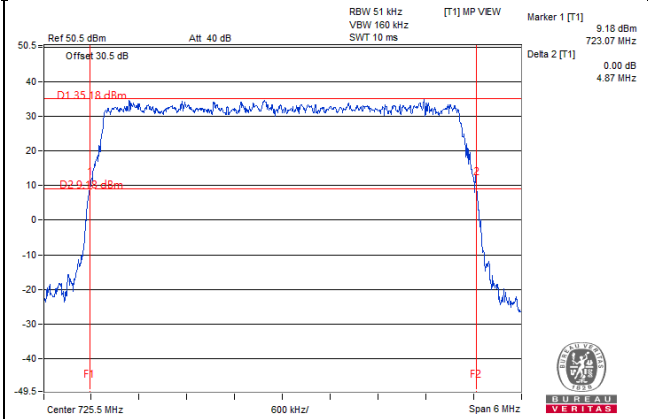


64QAM

Channel: 143900

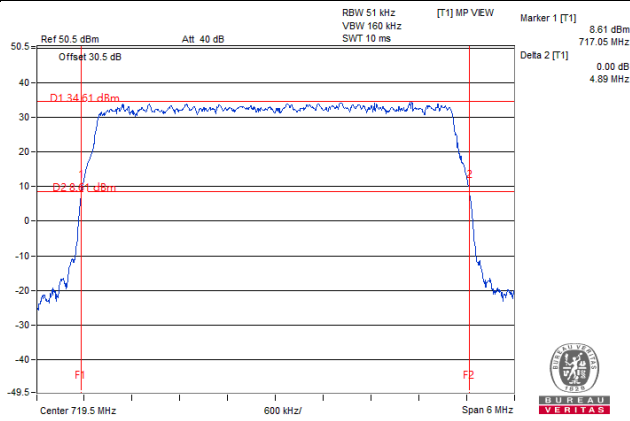


Channel: 145100

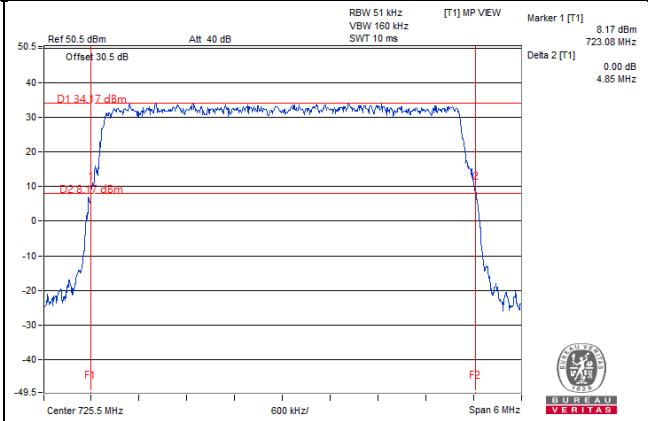


256QAM

Channel: 143900



Channel: 145100



Band n71 Single Carrier

5MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
123900	619.5	4.91	4.91	4.89	4.91	4.90	4.90	4.89	4.89	4.91	4.91	4.89	4.88	4.92	4.91	4.90	4.92
126900	634.5	4.88	4.89	4.90	4.89	4.90	4.88	4.91	4.89	4.90	4.88	4.87	4.89	4.90	4.87	4.90	4.88
129900	649.5	4.85	4.89	4.90	4.89	4.84	4.87	4.91	4.89	4.84	4.86	4.87	4.89	4.83	4.88	4.88	4.89

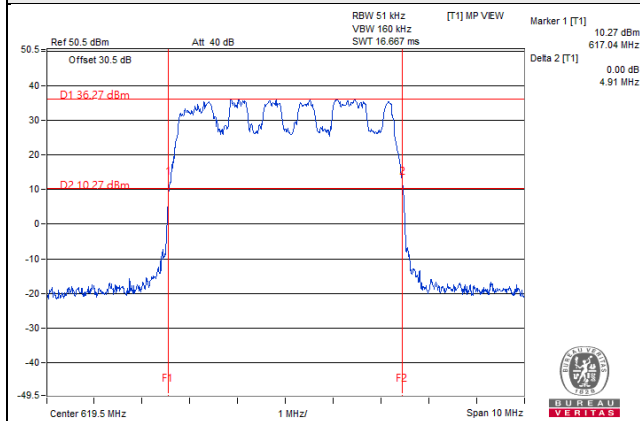
ANT0

Spectrum Plot of Worst Value

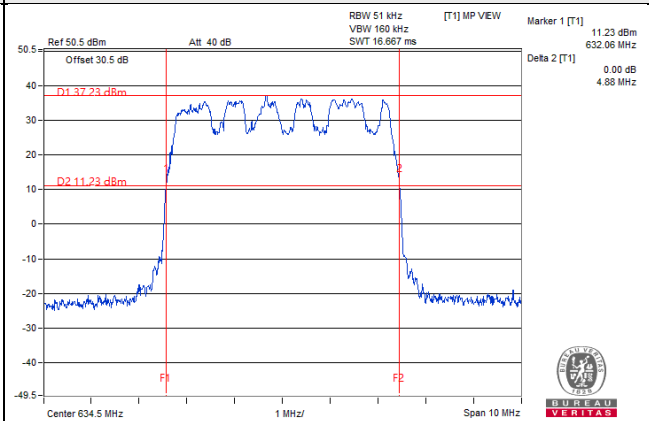
-26dBc Bandwidth

QPSK

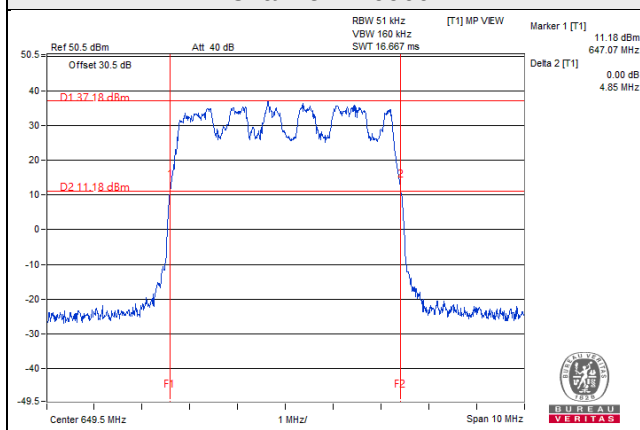
Channel: 123900



Channel: 126900

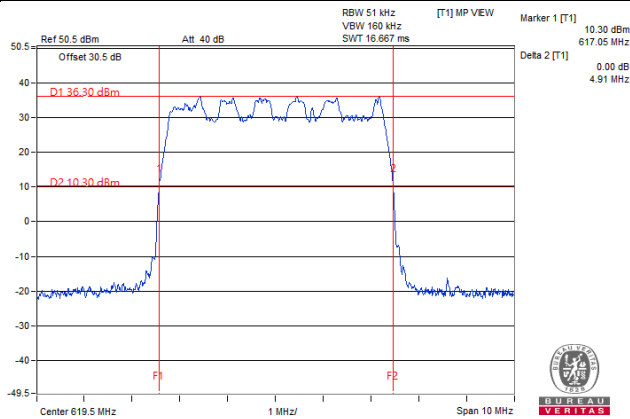


Channel: 129900

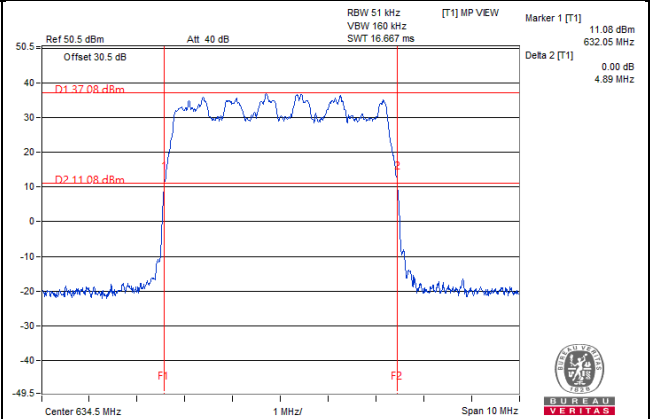


16QAM

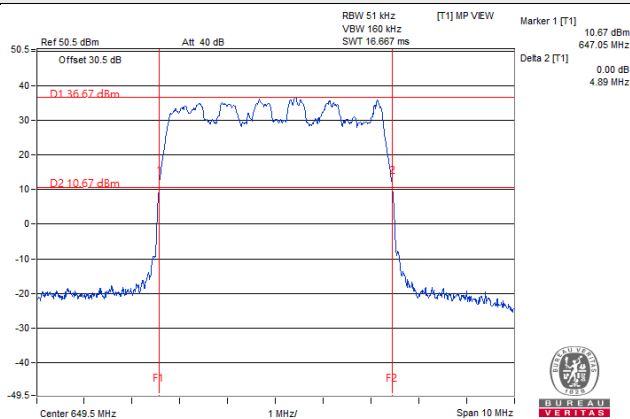
Channel: 123900



Channel: 126900

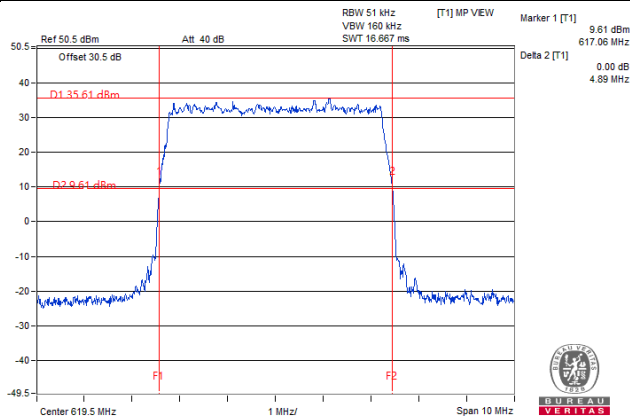


Channel: 129900

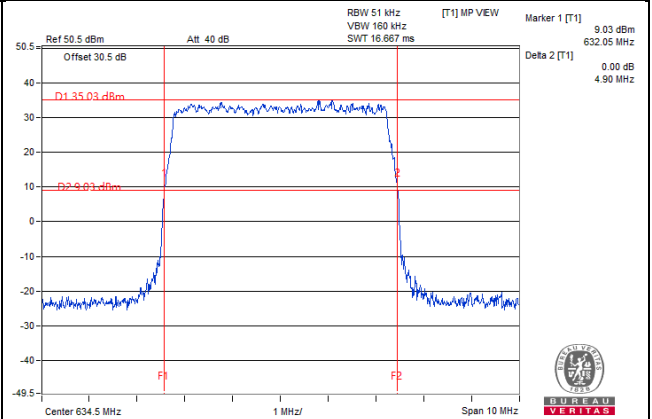


64QAM

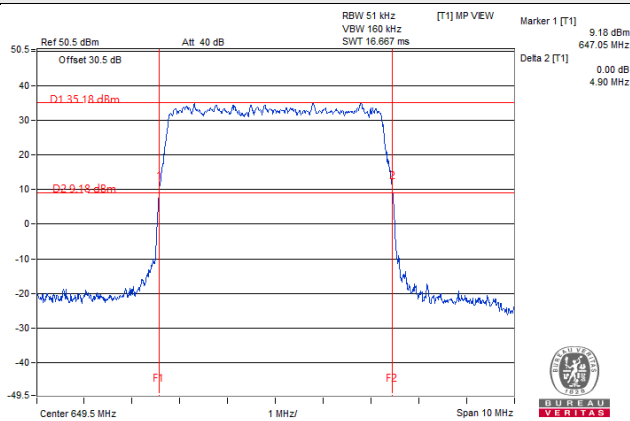
Channel: 123900



Channel: 126900

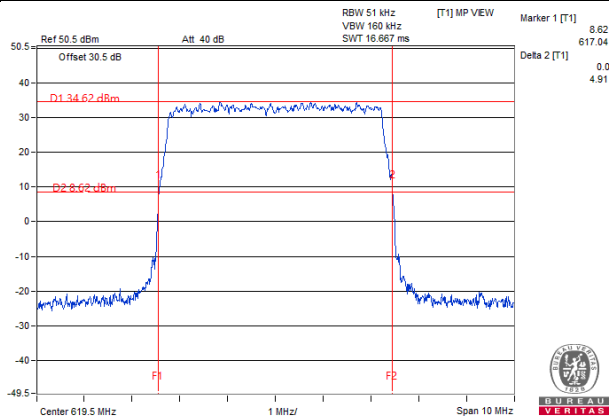


Channel: 129900

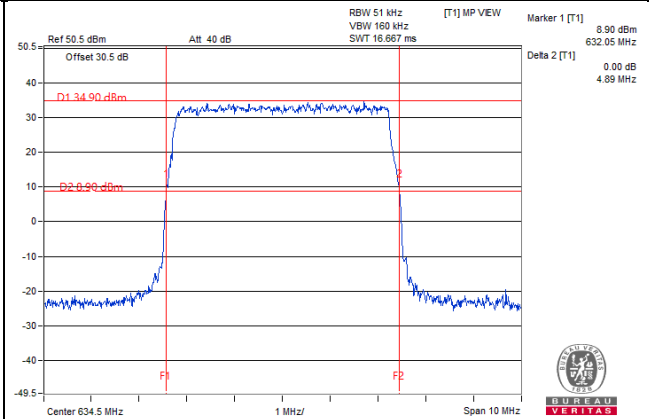


256QAM

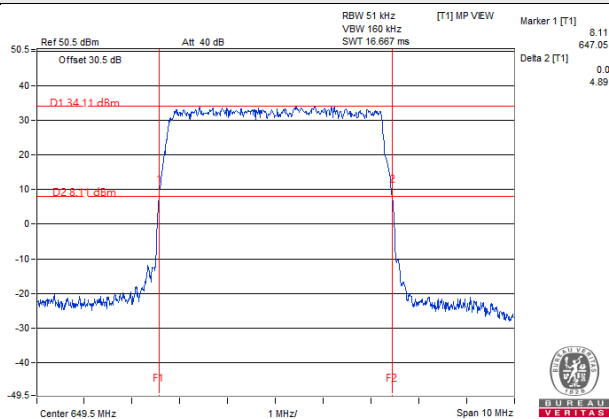
Channel: 123900



Channel: 126900



Channel: 129900



ANT1

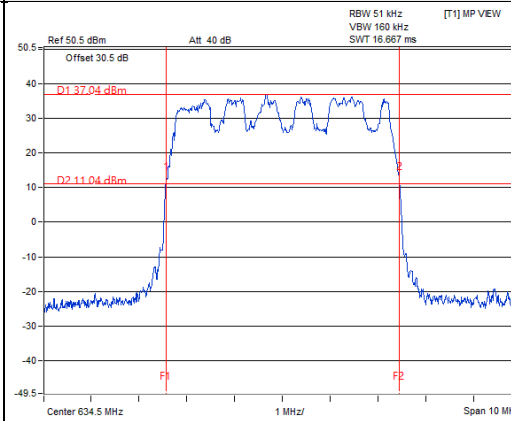
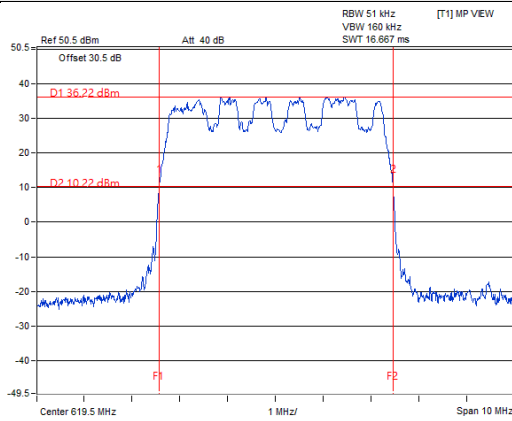
Spectrum Plot of Worst Value

-26dBc Bandwidth

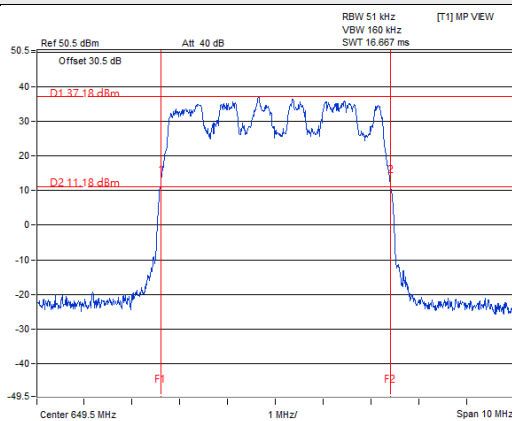
QPSK

Channel: 123900

Channel: 126900

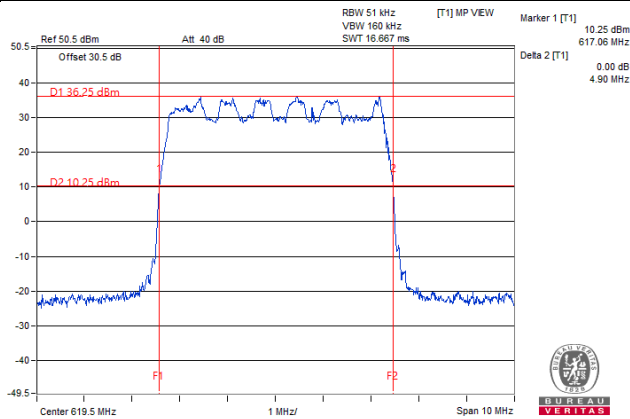


Channel: 129900

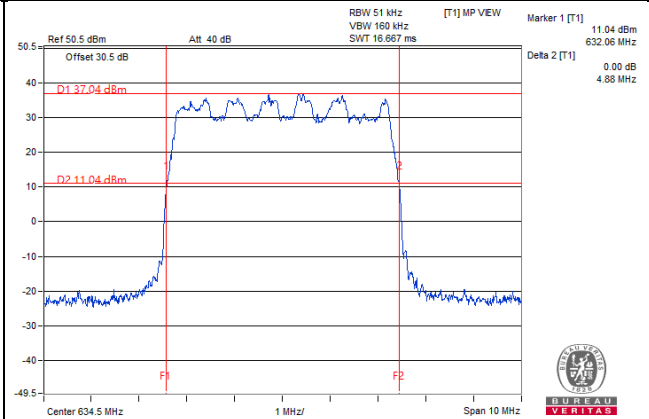


16QAM

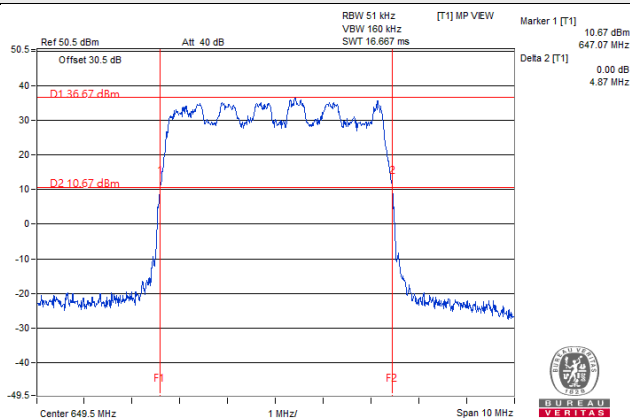
Channel: 123900



Channel: 126900

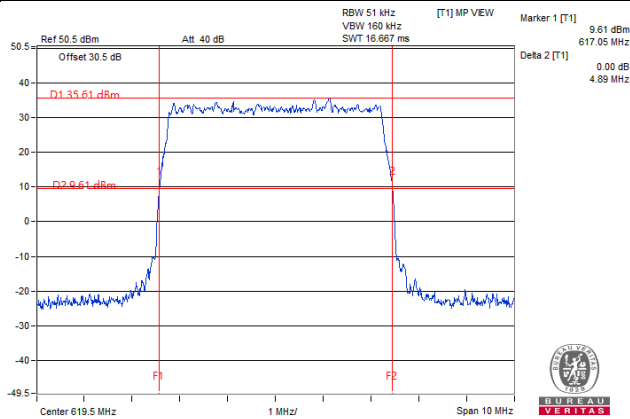


Channel: 129900

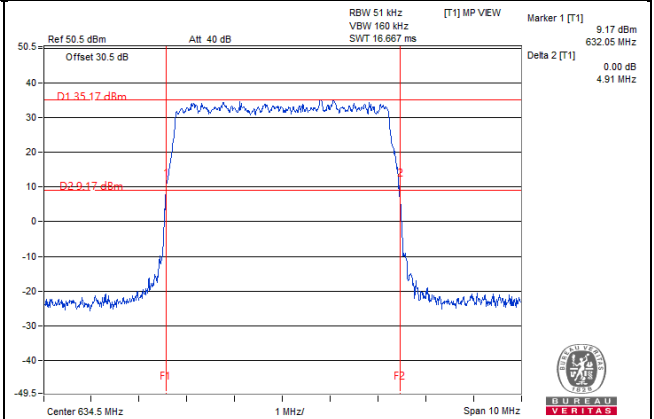


64QAM

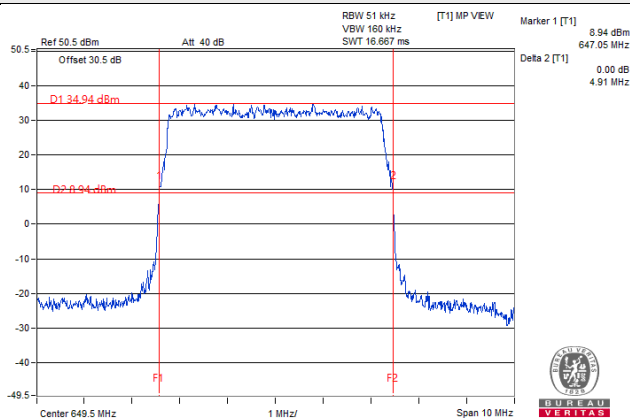
Channel: 123900



Channel: 126900

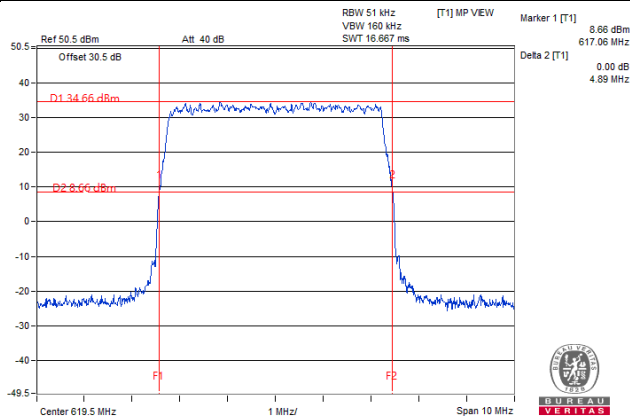


Channel: 129900

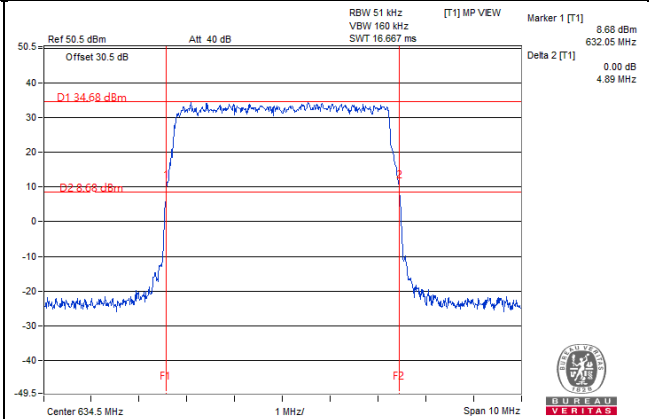


256QAM

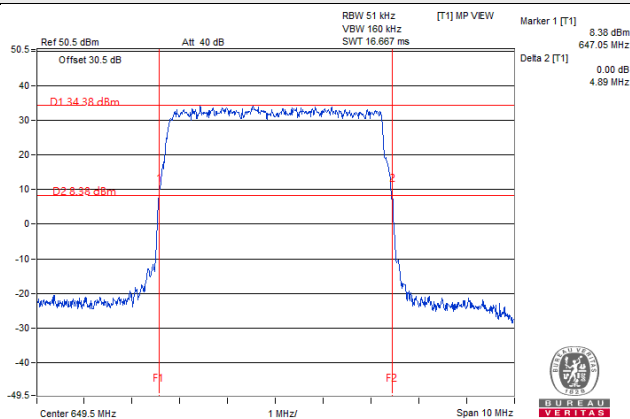
Channel: 123900



Channel: 126900



Channel: 129900

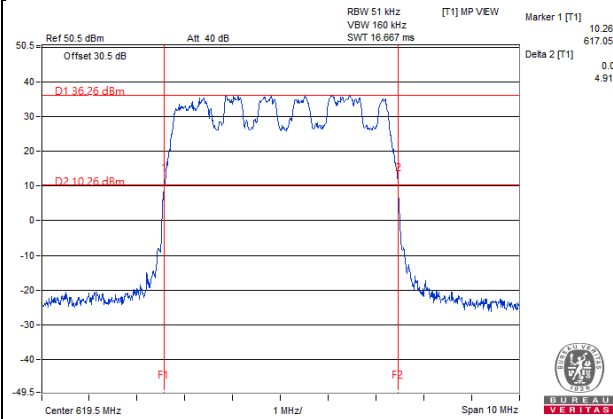


ANT2

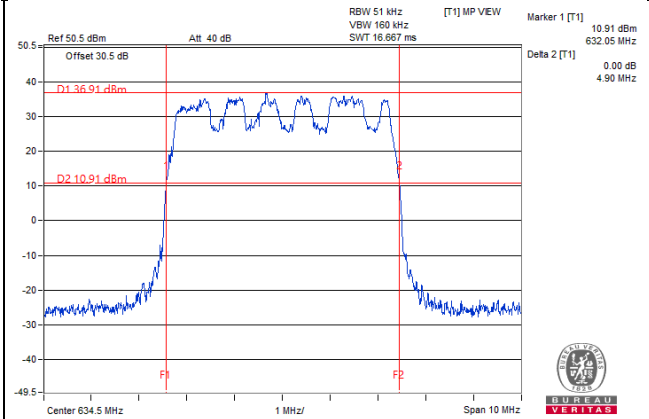
Spectrum Plot of Worst Value -26dBc Bandwidth

QPSK

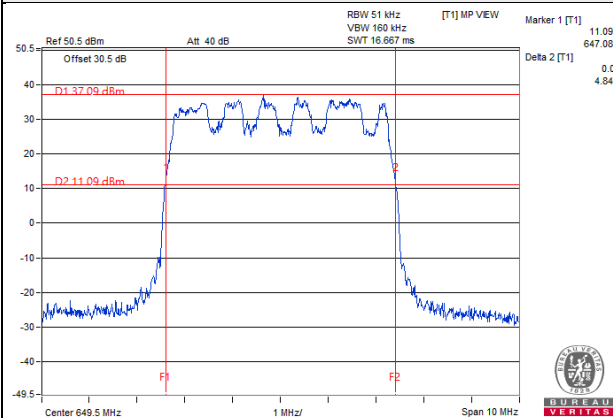
Channel: 123900



Channel: 126900

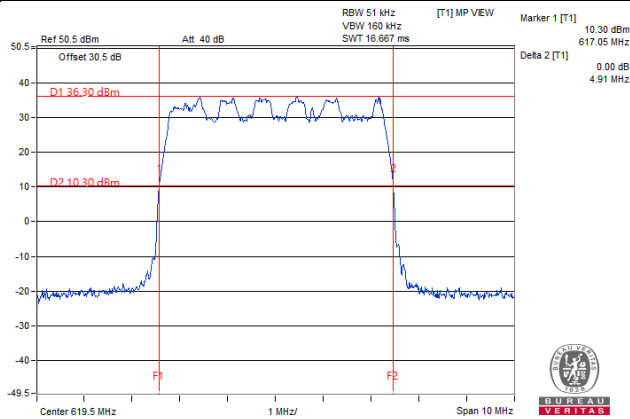


Channel: 129900

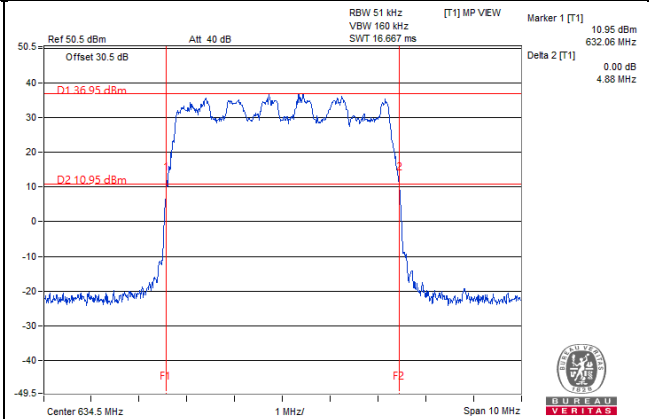


16QAM

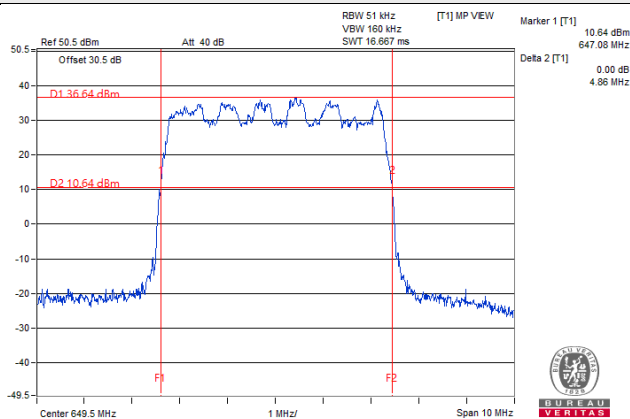
Channel: 123900



Channel: 126900

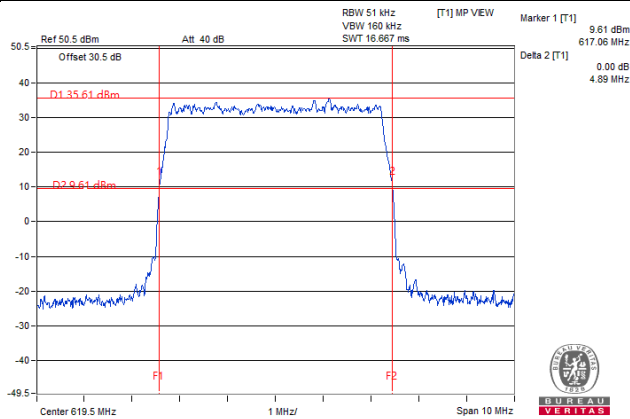


Channel: 129900

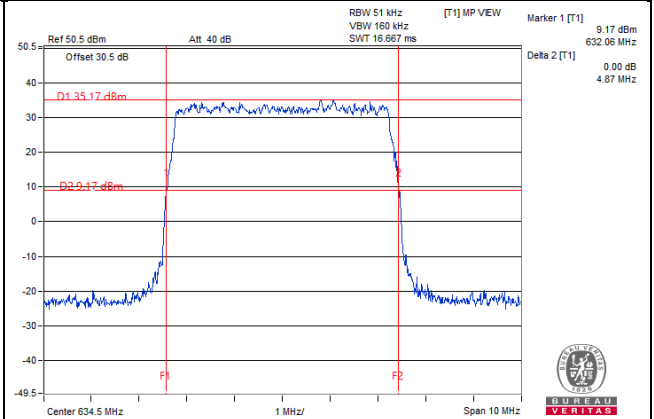


64QAM

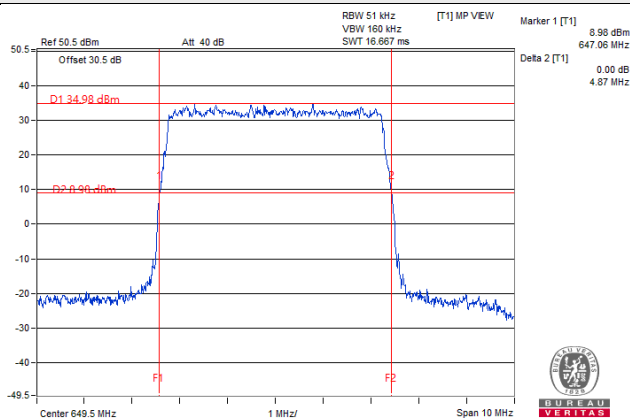
Channel: 123900



Channel: 126900

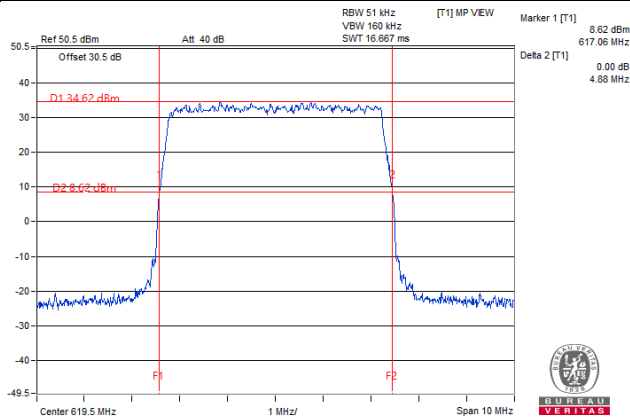


Channel: 129900

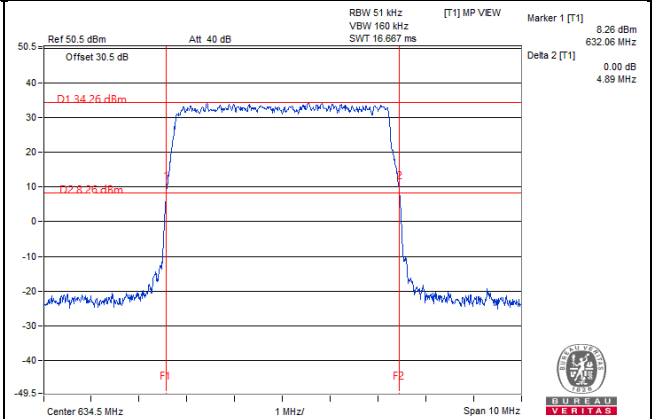


256QAM

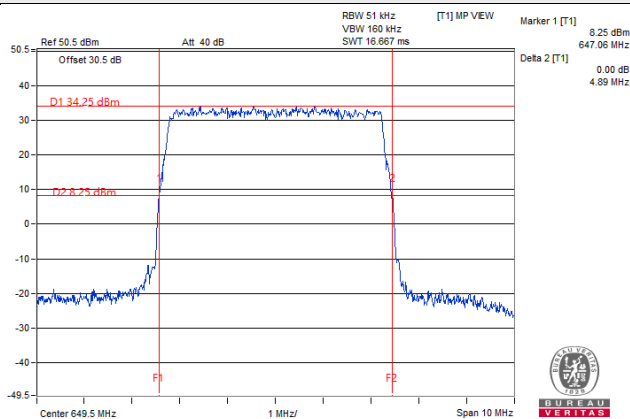
Channel: 123900



Channel: 126900



Channel: 129900



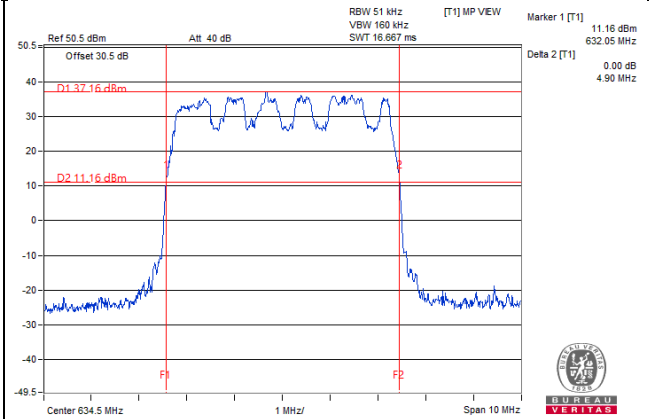
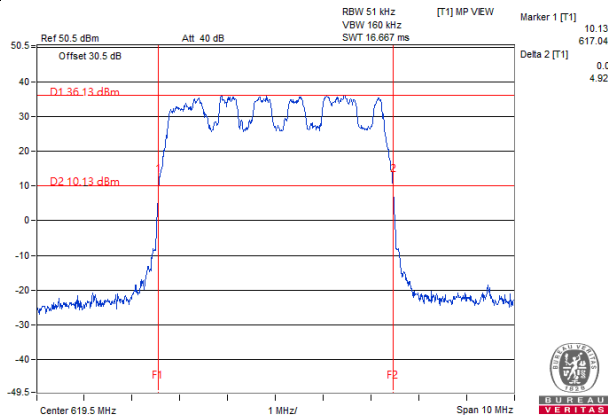
ANT3

Spectrum Plot of Worst Value -26dBc Bandwidth

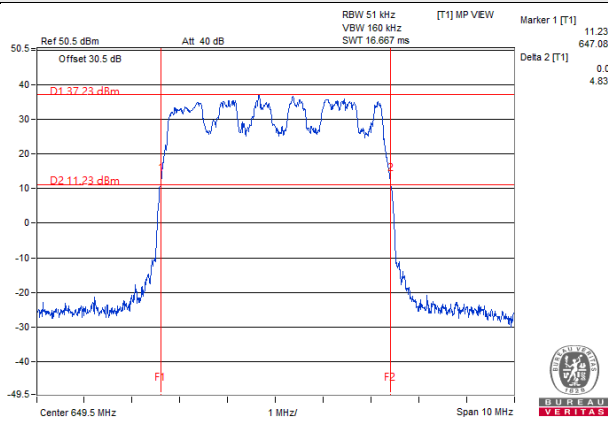
QPSK

Channel: 123900

Channel: 126900

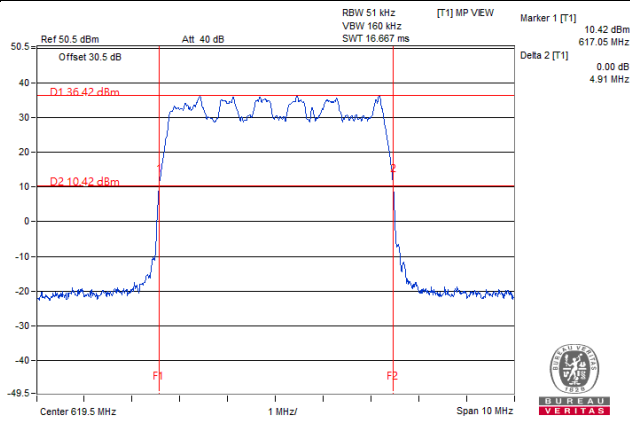


Channel: 129900

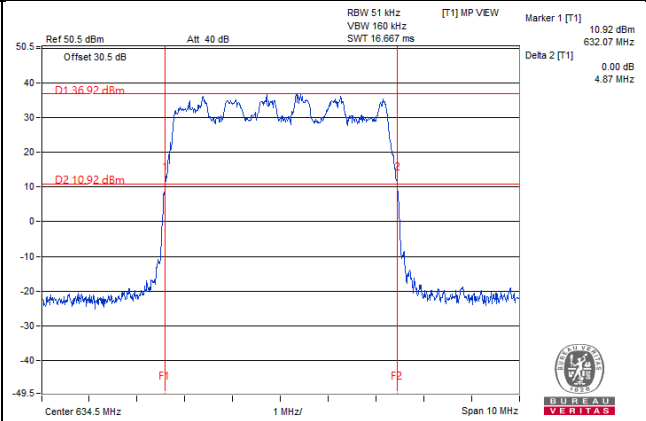


16QAM

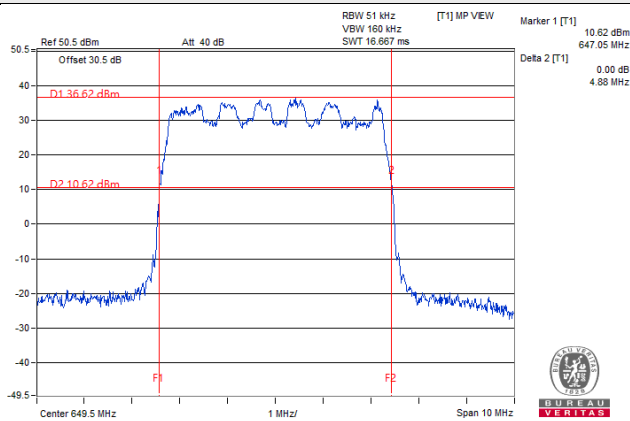
Channel: 123900



Channel: 126900

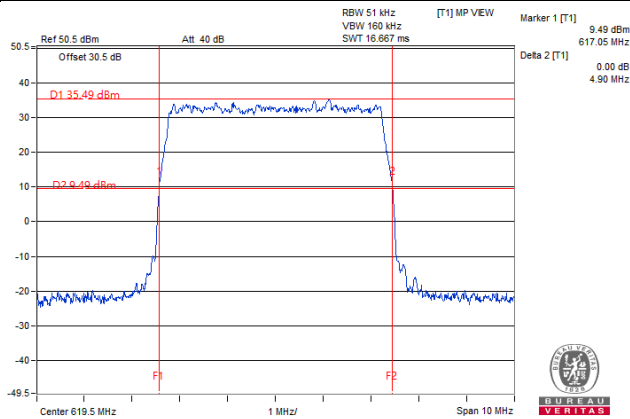


Channel: 129900

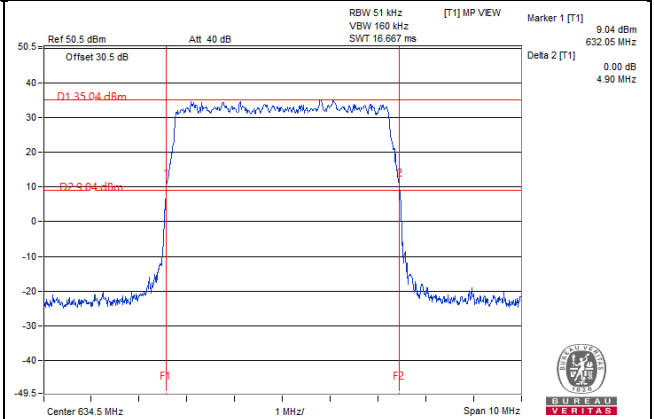


64QAM

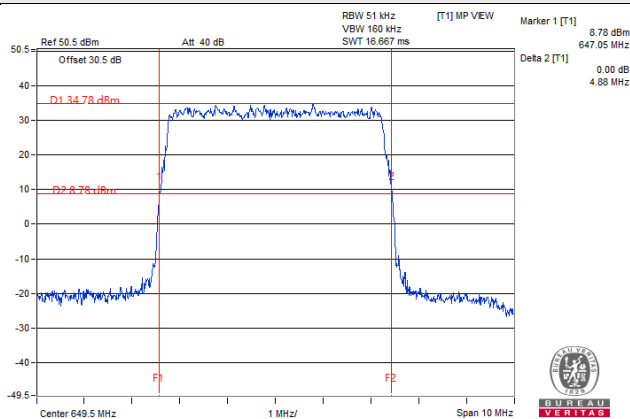
Channel: 123900



Channel: 126900

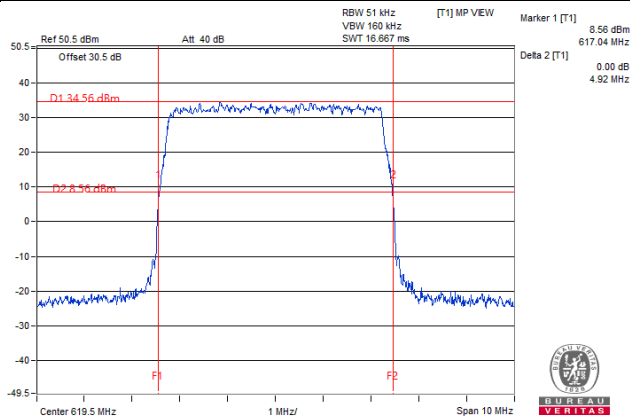


Channel: 129900

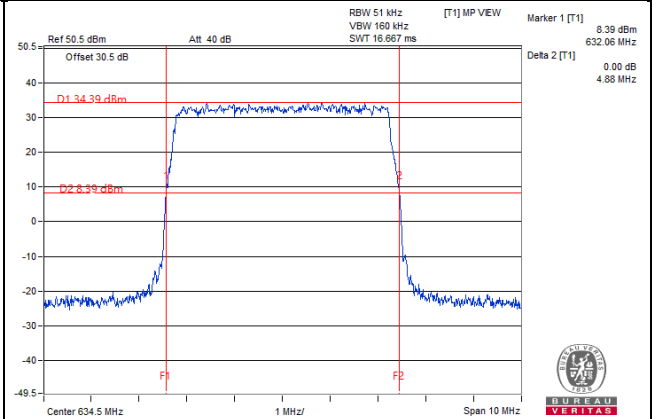


256QAM

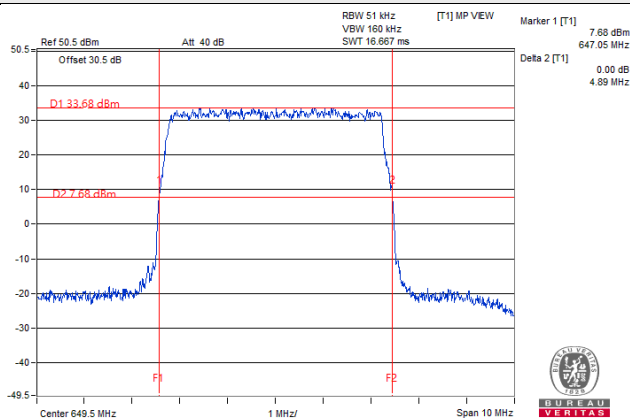
Channel: 123900



Channel: 126900



Channel: 129900



10MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
124400	622	9.86	9.76	9.83	9.85	9.84	9.76	9.82	9.83	9.84	9.76	9.82	9.84	9.85	9.76	9.82	9.83
126900	634.5	8.80	9.77	9.84	9.83	9.80	9.76	9.82	9.84	9.80	9.76	9.84	9.84	9.79	9.76	9.82	9.85
129400	647	9.79	9.76	9.82	9.86	9.78	9.77	9.82	9.86	9.77	9.77	9.86	9.86	9.76	9.76	9.83	9.86

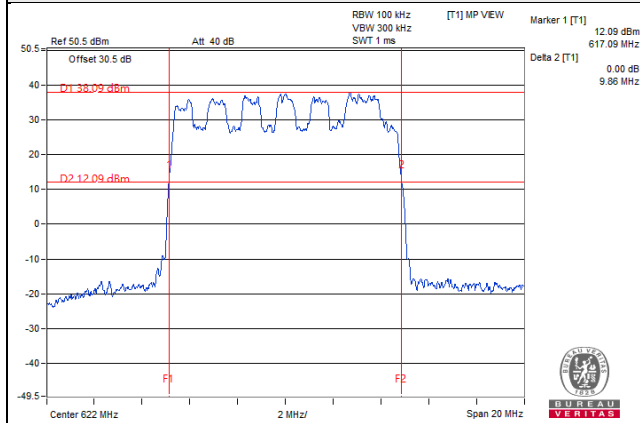
ANT0

Spectrum Plot of Worst Value

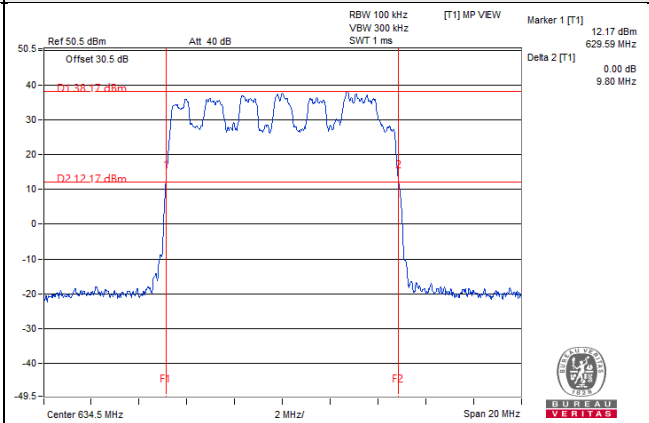
-26dBc Bandwidth

QPSK

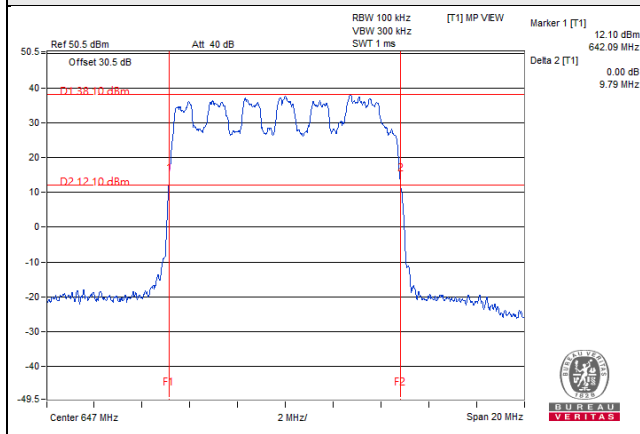
Channel: 124400



Channel: 126900

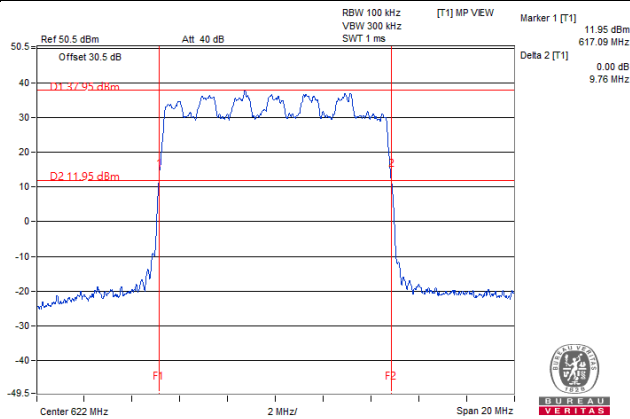


Channel: 129400

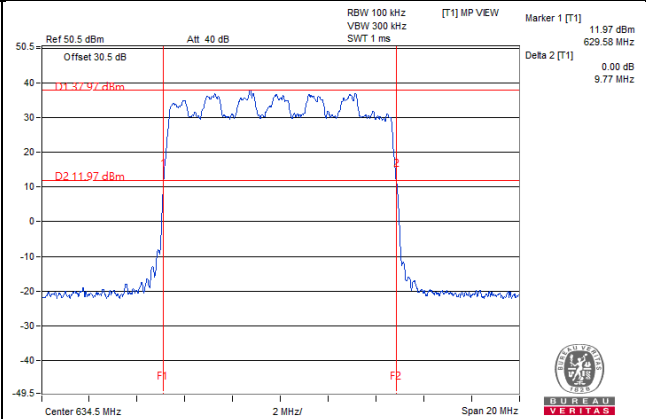


16QAM

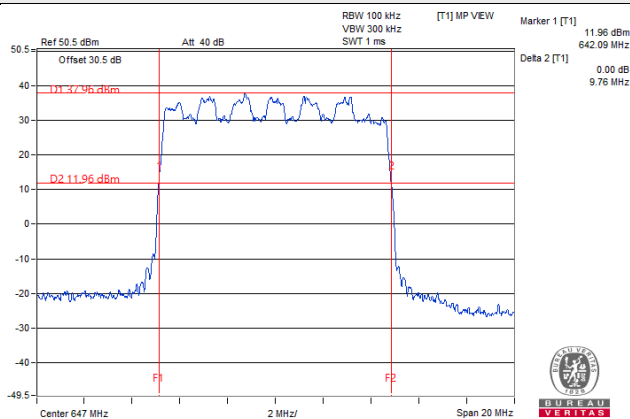
Channel: 124400



Channel: 126900

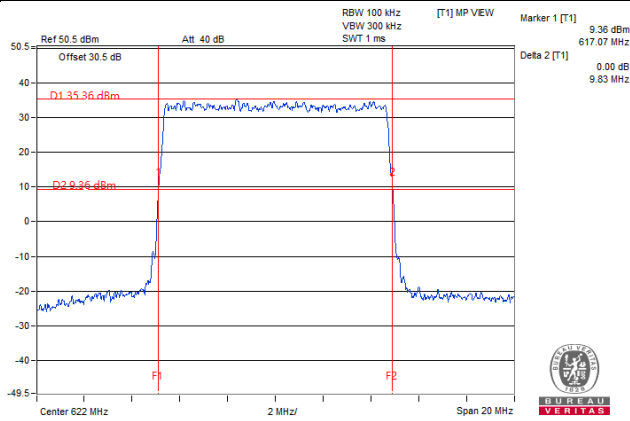


Channel: 129400

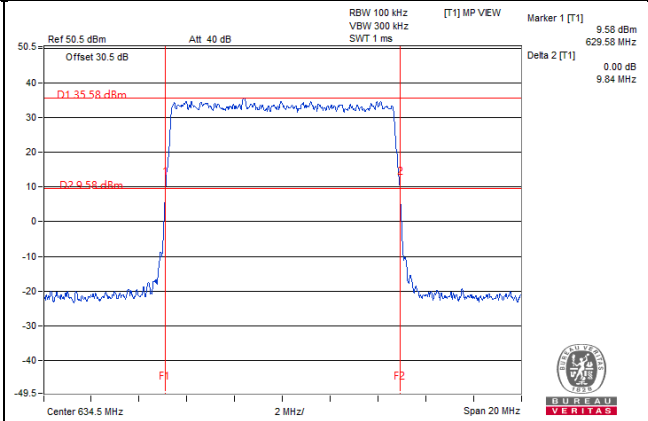


64QAM

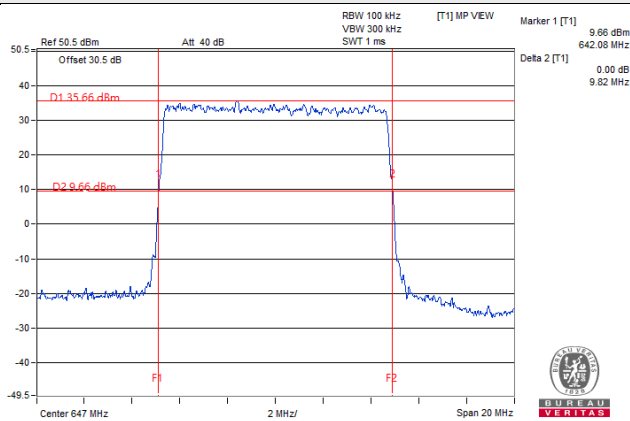
Channel: 124400



Channel: 126900

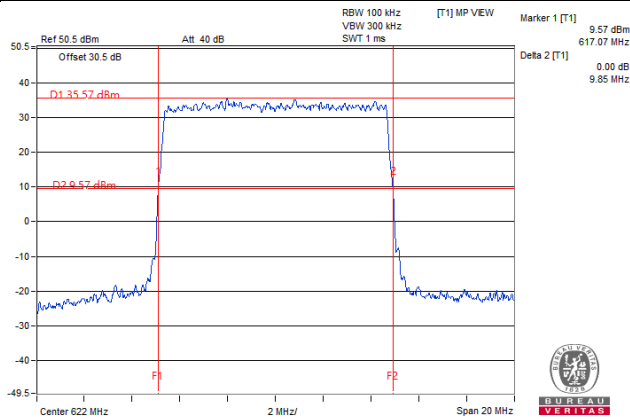


Channel: 129400

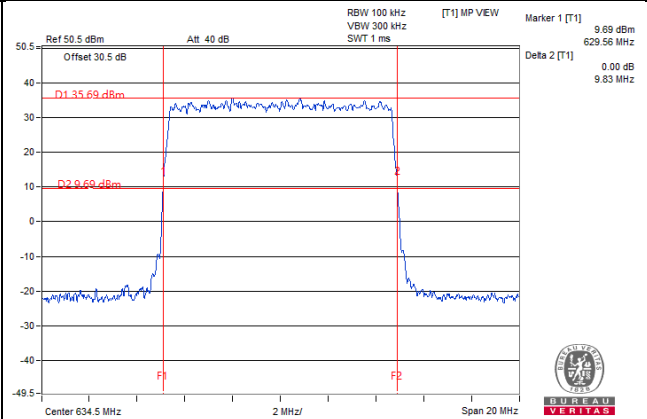


256QAM

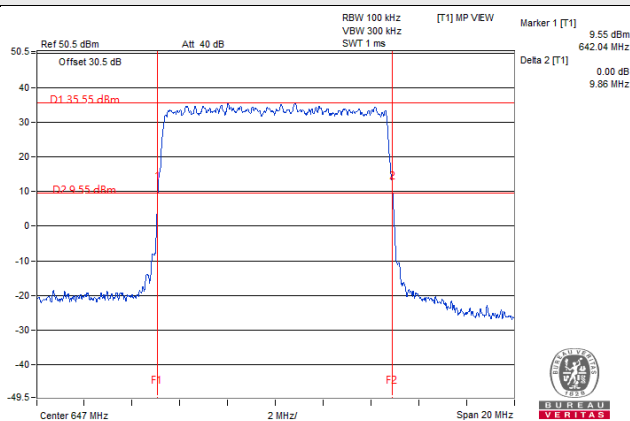
Channel: 124400



Channel: 126900



Channel: 129400



ANT1

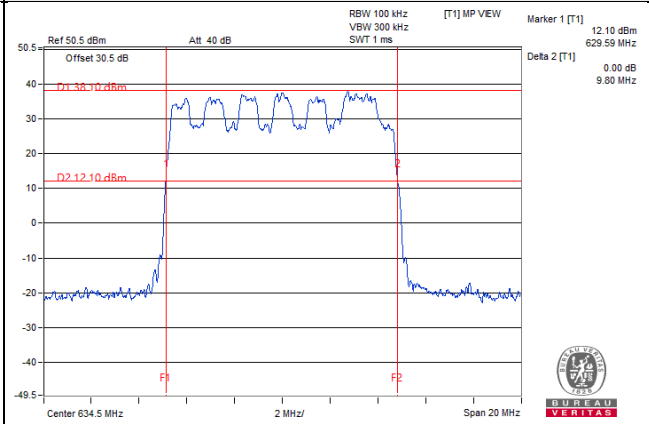
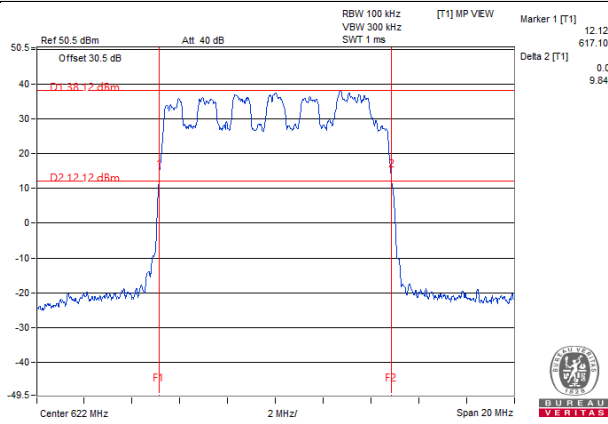
Spectrum Plot of Worst Value

-26dBc Bandwidth

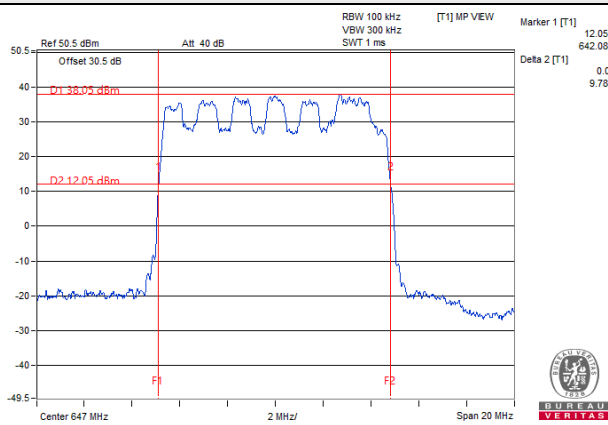
QPSK

Channel: 124400

Channel: 126900

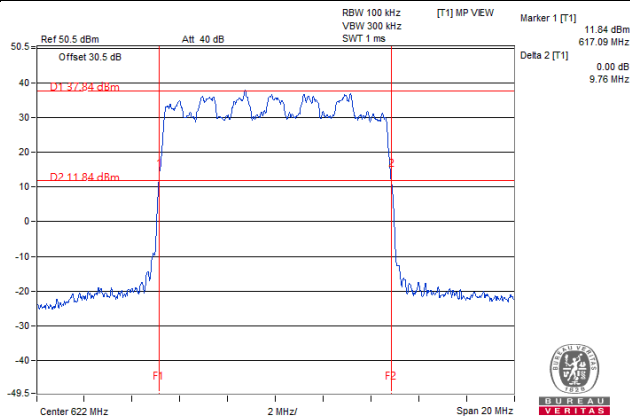


Channel: 129400

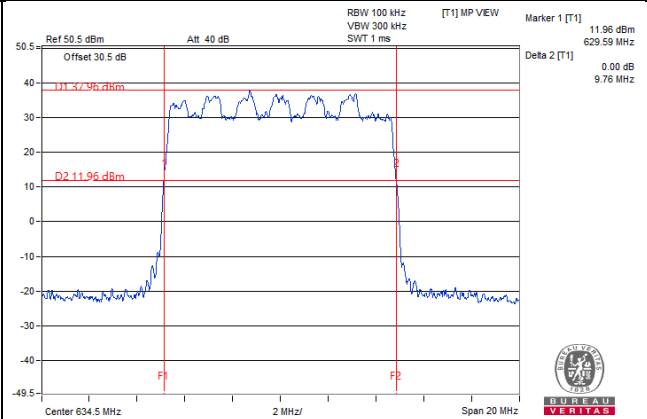


16QAM

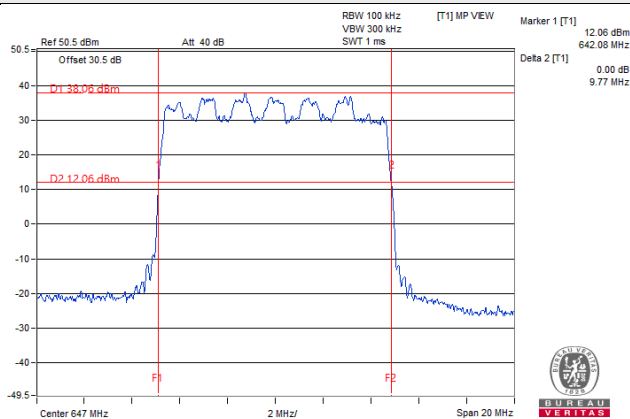
Channel: 124400



Channel: 126900

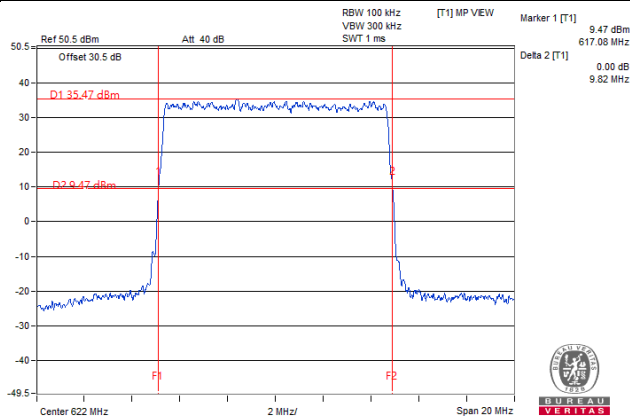


Channel: 129400

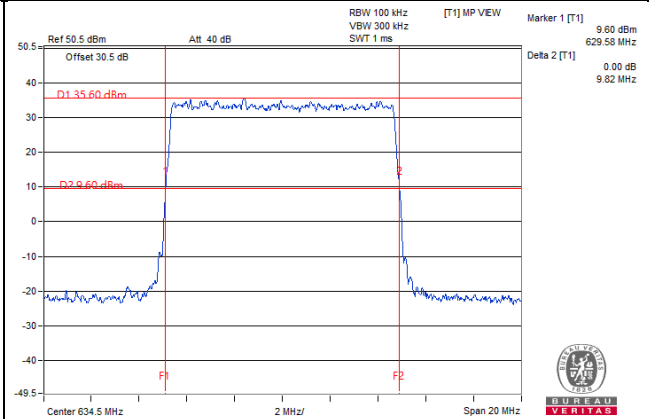


64QAM

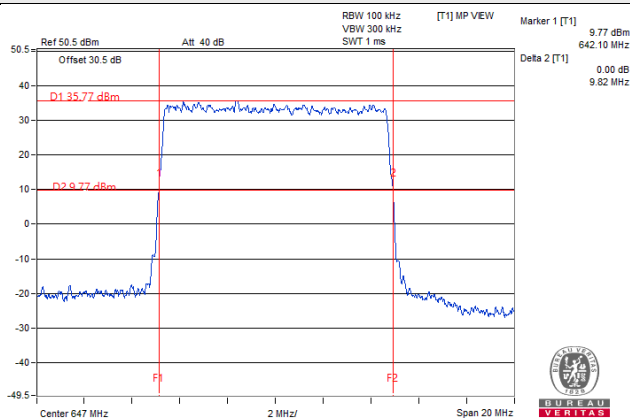
Channel: 124400



Channel: 126900

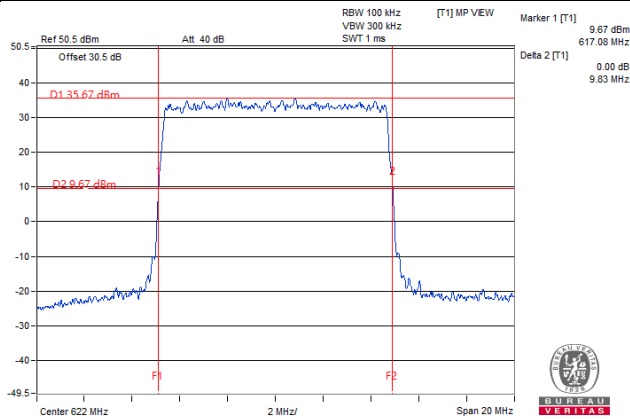


Channel: 129400

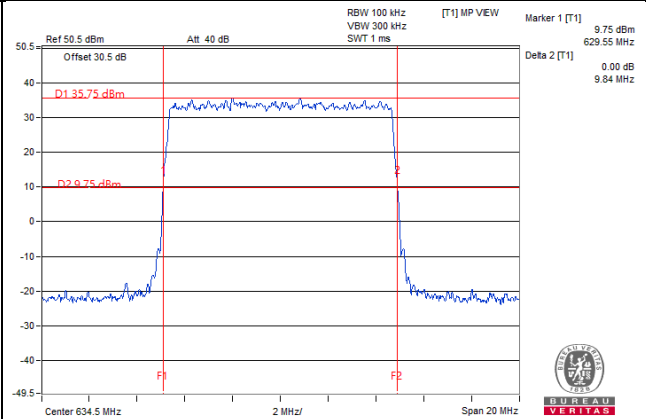


256QAM

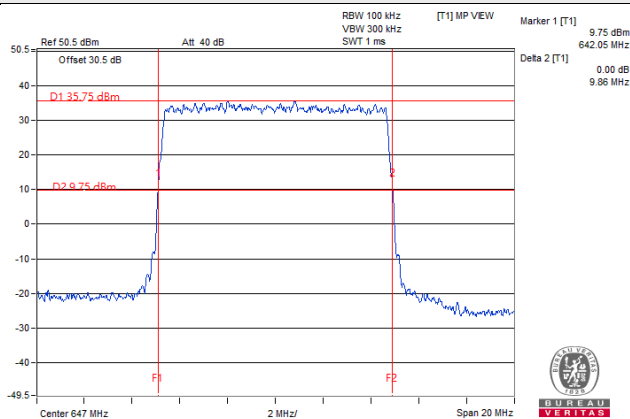
Channel: 124400



Channel: 126900



Channel: 129400



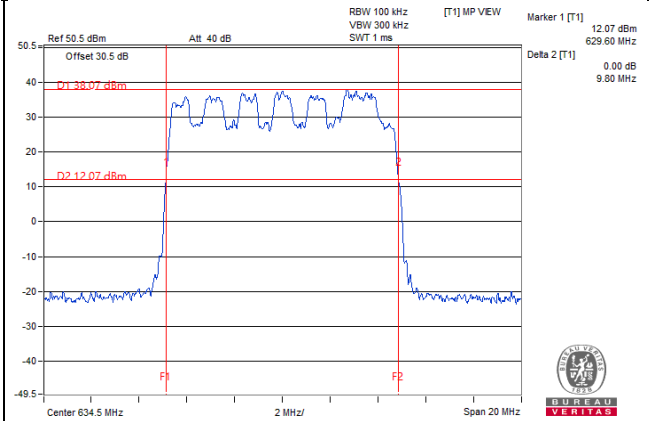
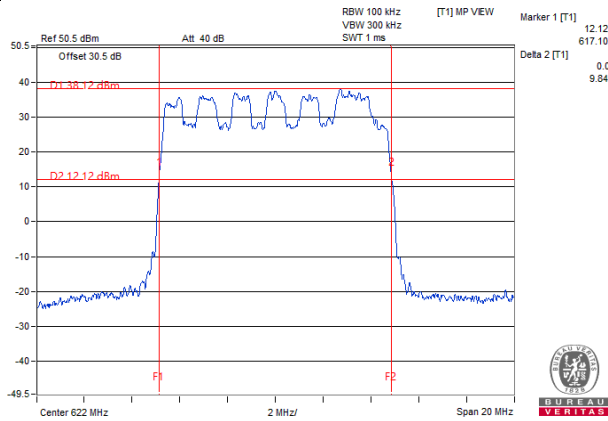
ANT2

Spectrum Plot of Worst Value -26dBc Bandwidth

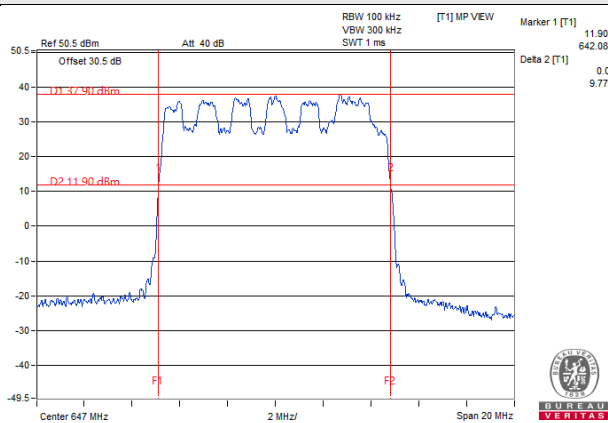
QPSK

Channel: 124400

Channel: 126900

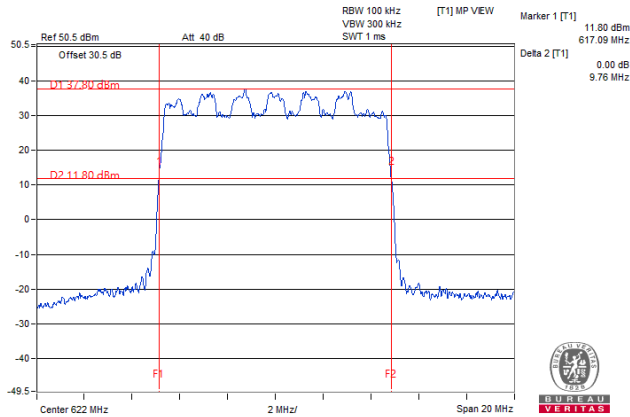


Channel: 129400

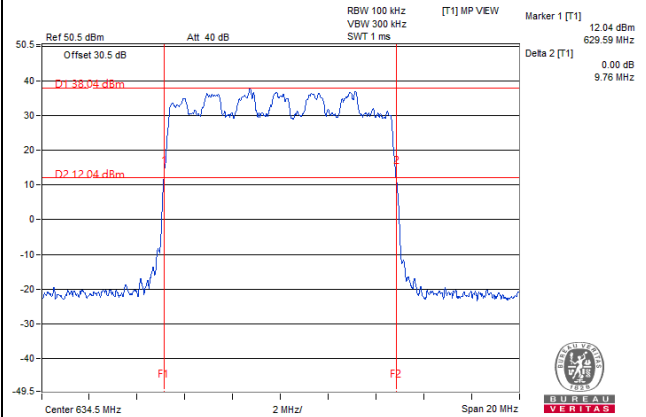


16QAM

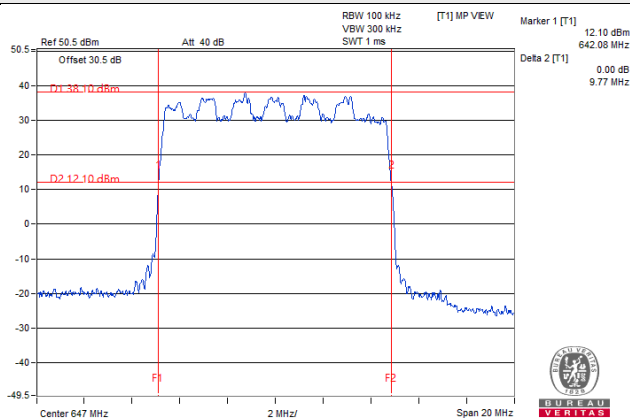
Channel: 124400



Channel: 126900

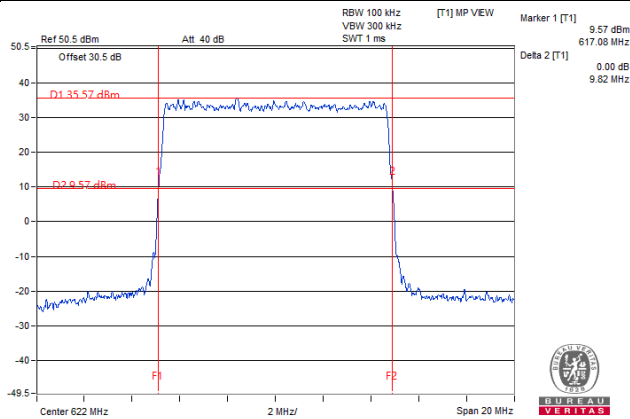


Channel: 129400

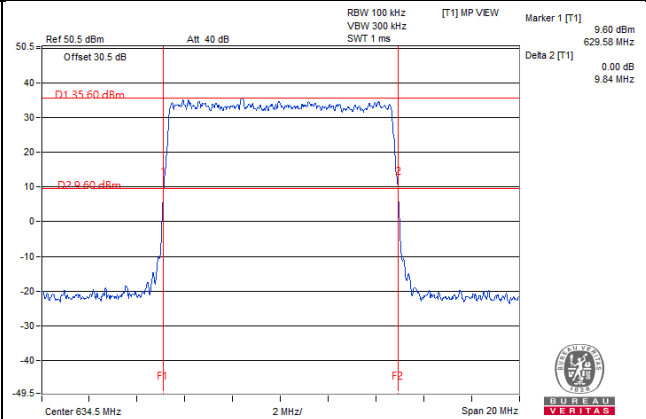


64QAM

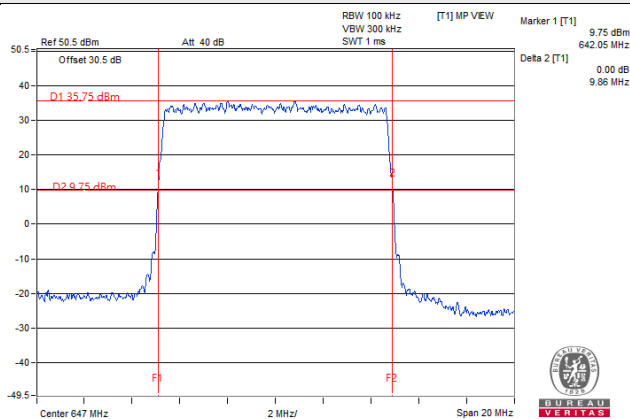
Channel: 124400



Channel: 126900

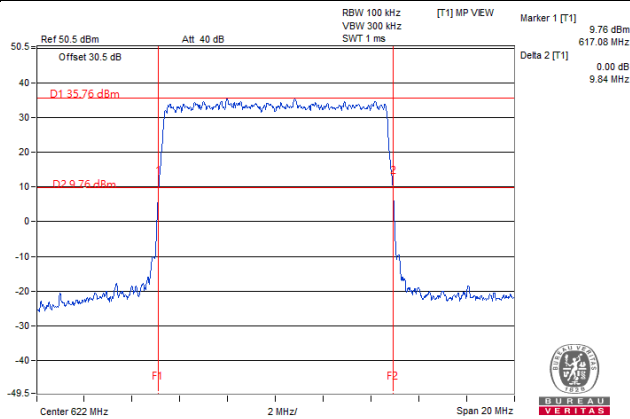


Channel: 129400

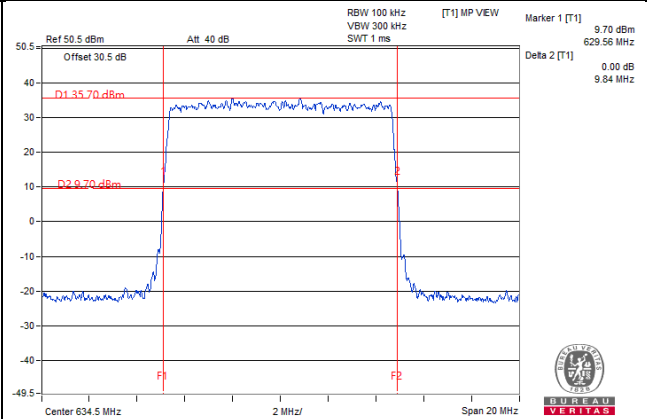


256QAM

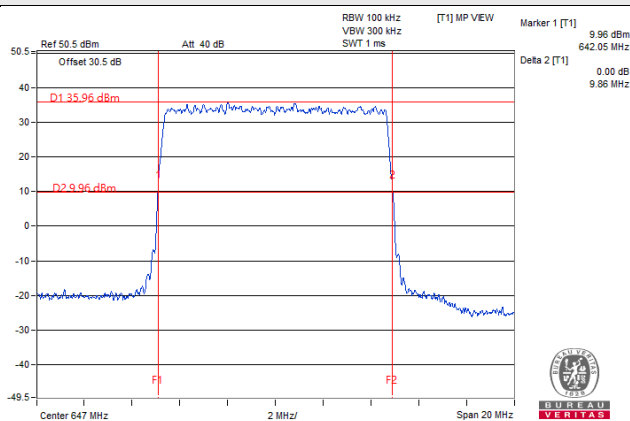
Channel: 124400



Channel: 126900



Channel: 129400



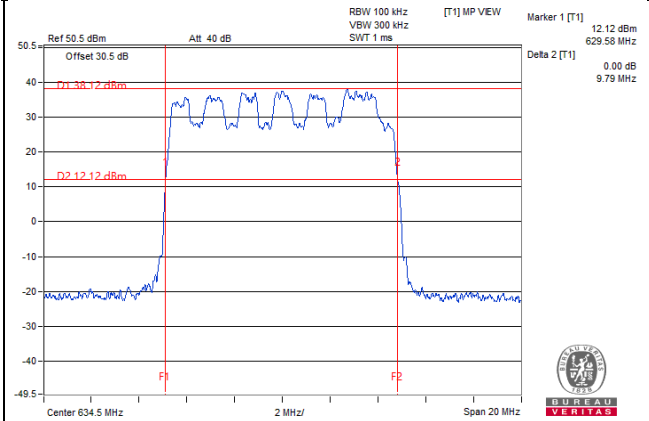
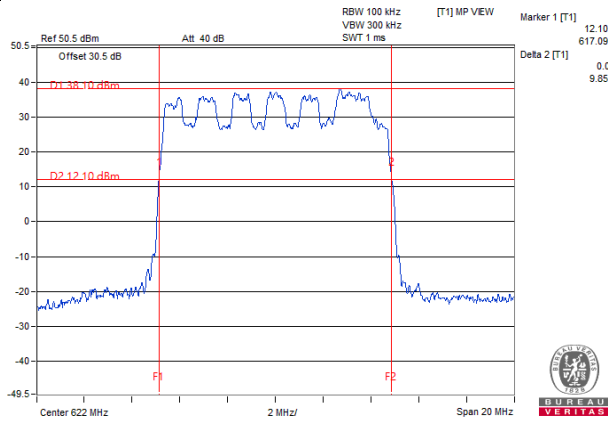
ANT3

Spectrum Plot of Worst Value -26dBc Bandwidth

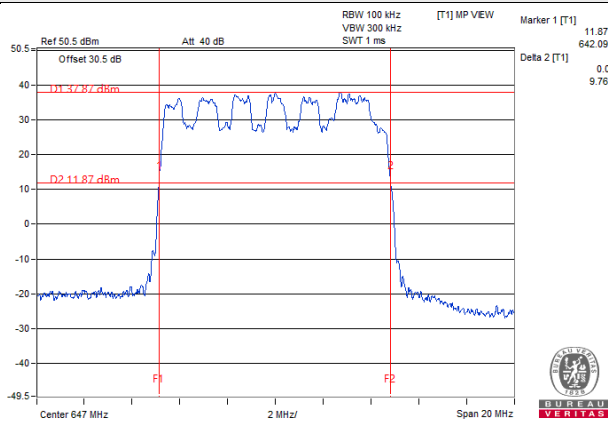
QPSK

Channel: 124400

Channel: 126900

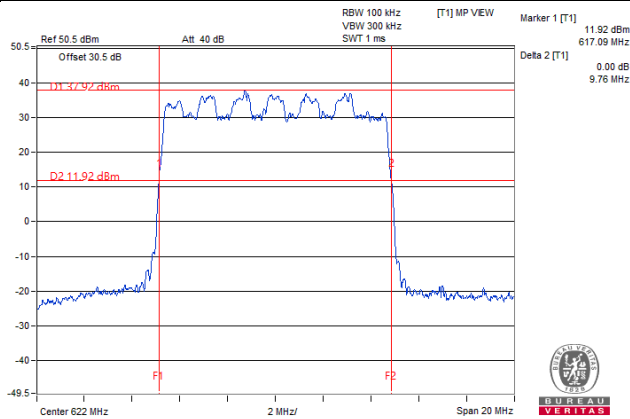


Channel: 129400

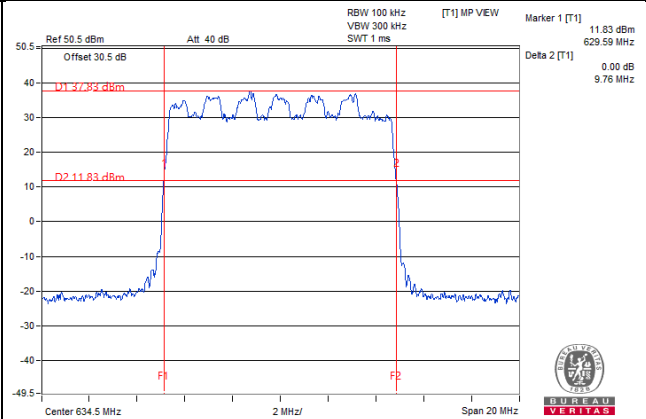


16QAM

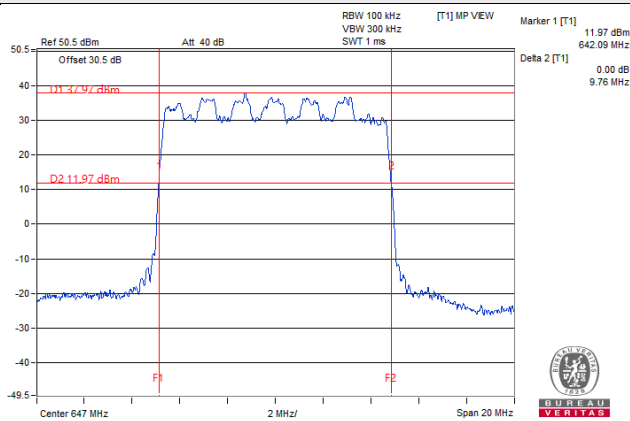
Channel: 124400



Channel: 126900

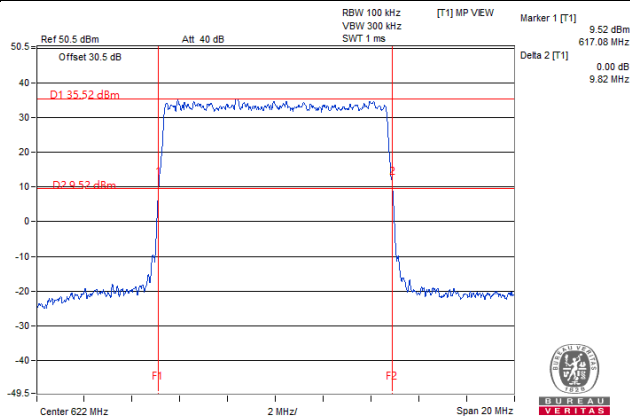


Channel: 129400

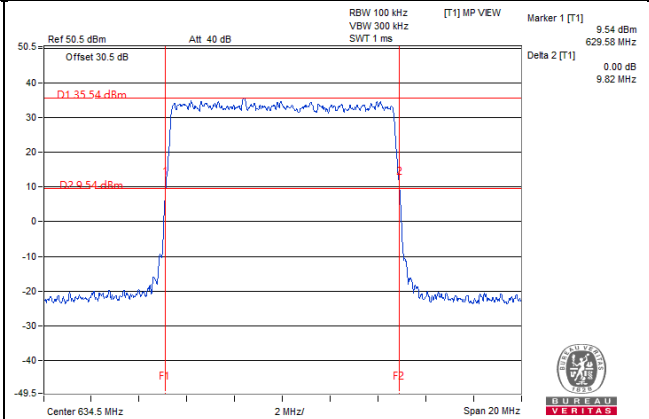


64QAM

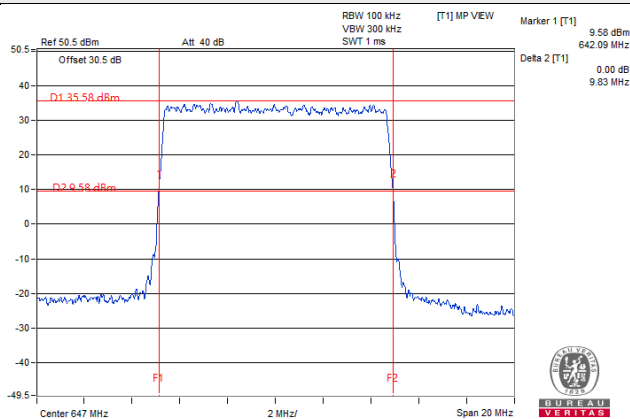
Channel: 124400



Channel: 126900

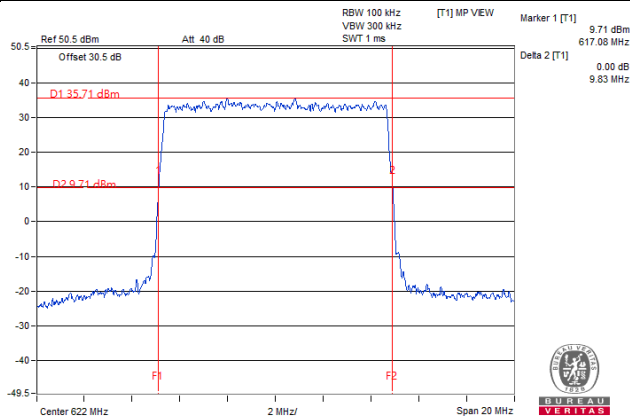


Channel: 129400

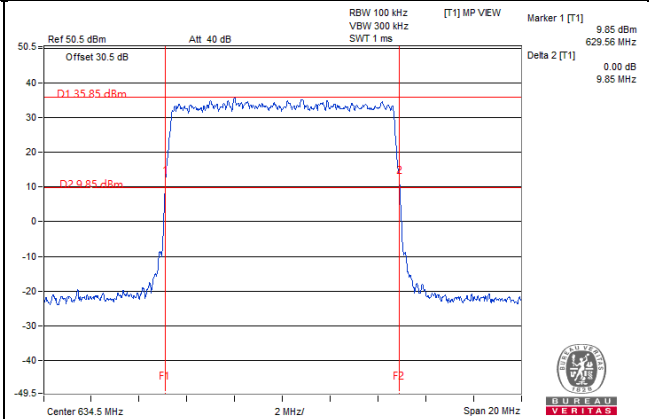


256QAM

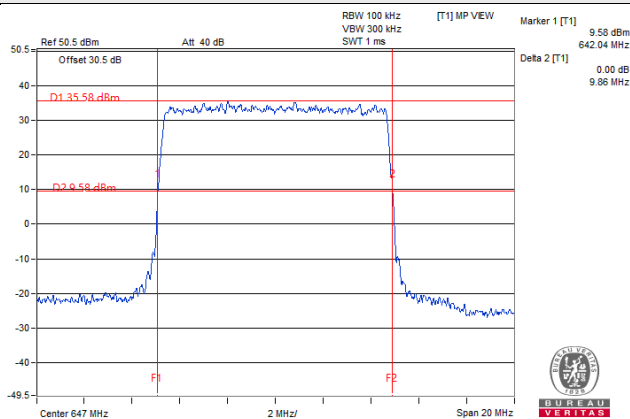
Channel: 124400



Channel: 126900



Channel: 129400



15MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
124900	624.5	14.84	14.73	14.78	14.72	14.79	14.75	14.80	14.73	14.82	14.77	14.79	14.71	14.80	14.74	14.76	14.73
126900	634.5	14.77	14.78	14.77	14.75	14.76	14.78	14.79	14.78	14.74	14.75	14.78	14.72	14.75	14.80	14.78	14.72
128900	644.5	14.74	14.80	14.79	14.76	14.76	14.82	14.81	14.75	14.74	14.79	14.80	14.77	14.77	14.82	14.80	14.76

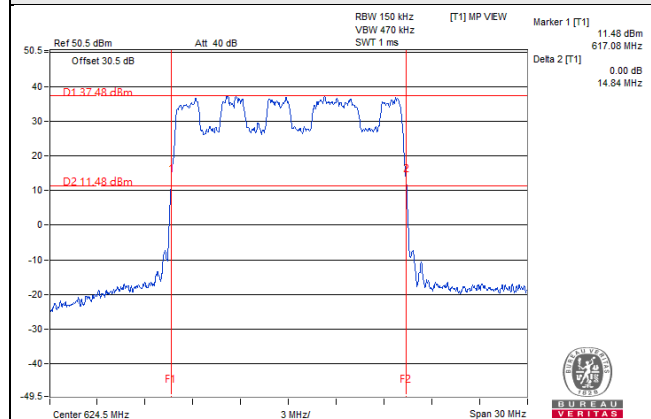
ANT0

Spectrum Plot of Worst Value

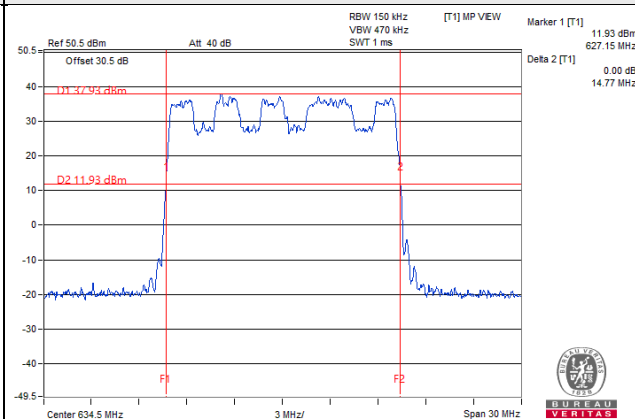
-26dBc Bandwidth

QPSK

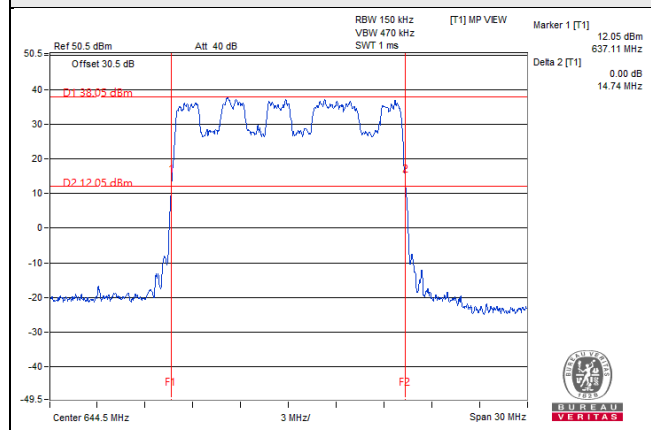
Channel: 124900



Channel: 126900

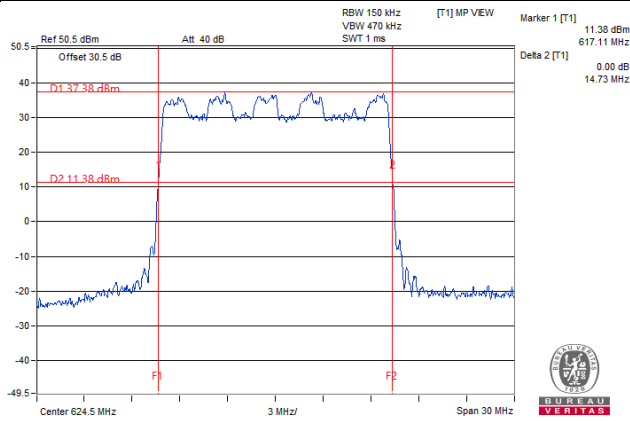


Channel: 128900

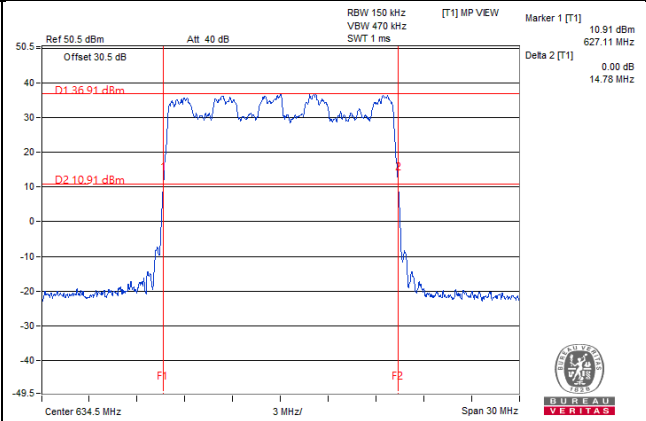


16QAM

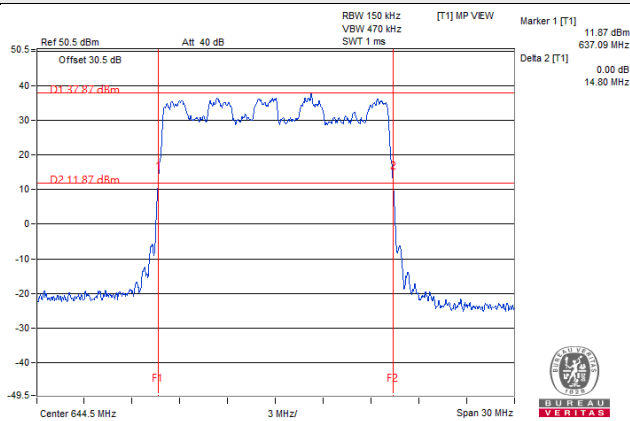
Channel: 124900



Channel: 126900

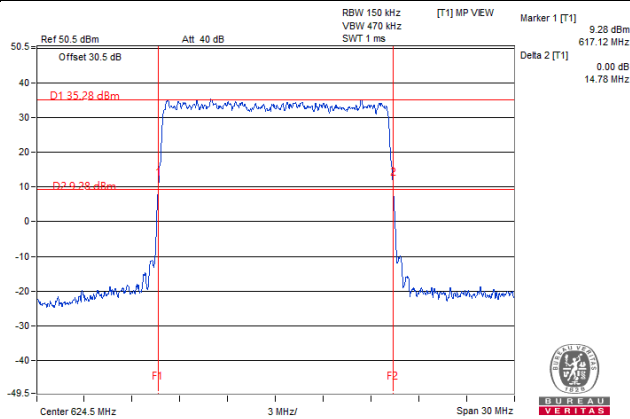


Channel: 128900

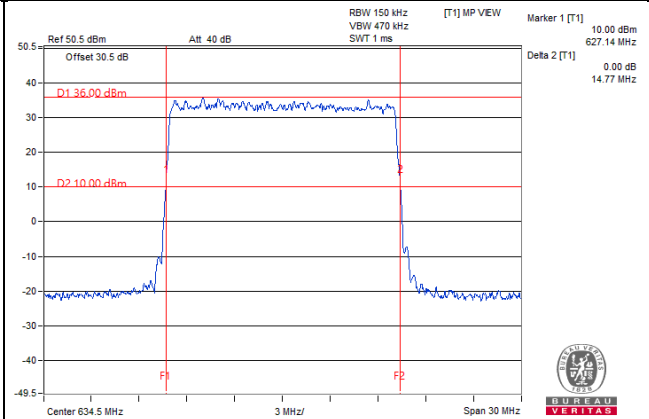


64QAM

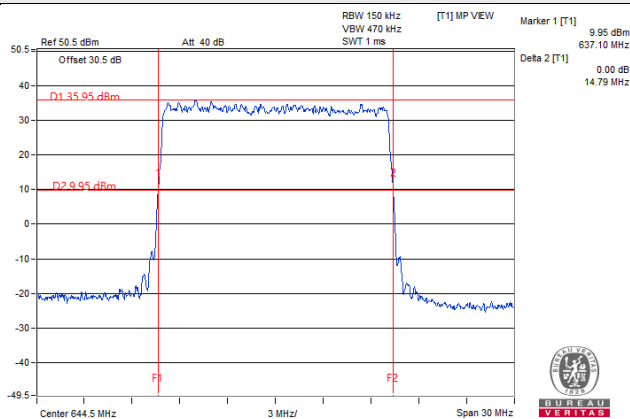
Channel: 124900



Channel: 126900

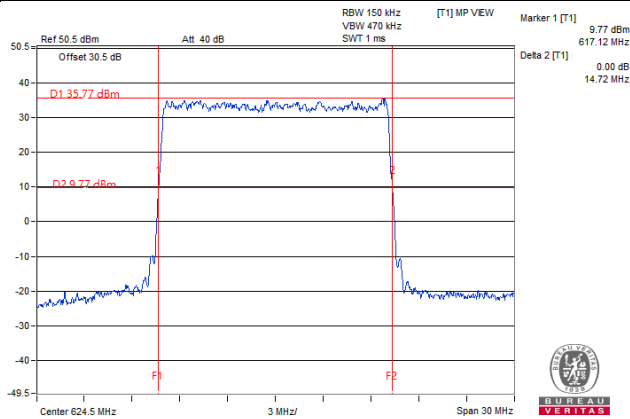


Channel: 128900

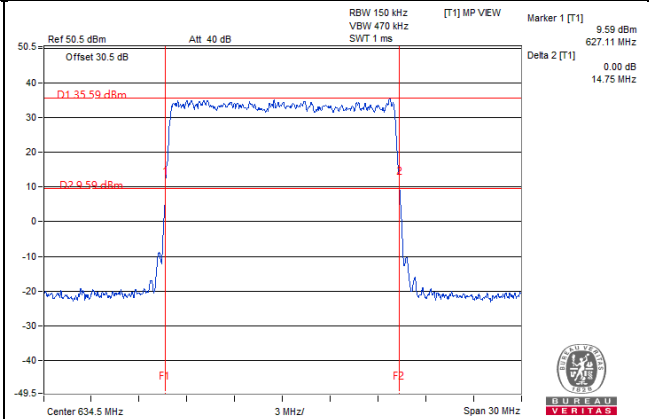


256QAM

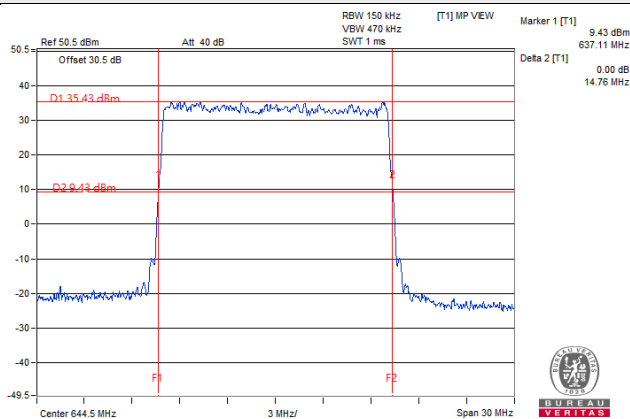
Channel: 124900



Channel: 126900



Channel: 128900



ANT1

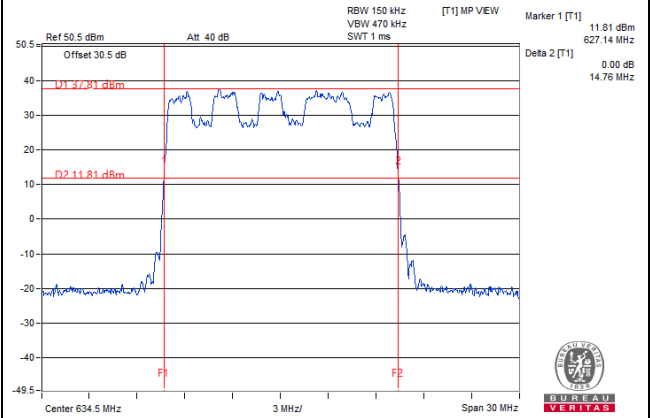
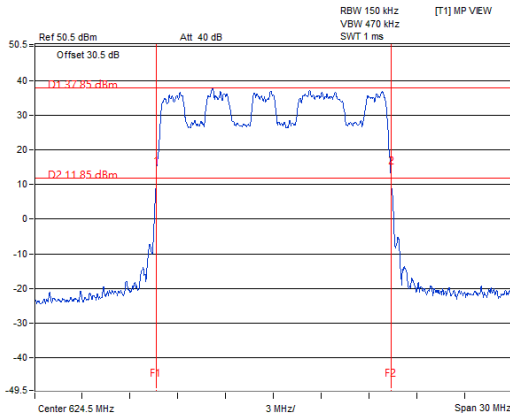
Spectrum Plot of Worst Value

-26dBc Bandwidth

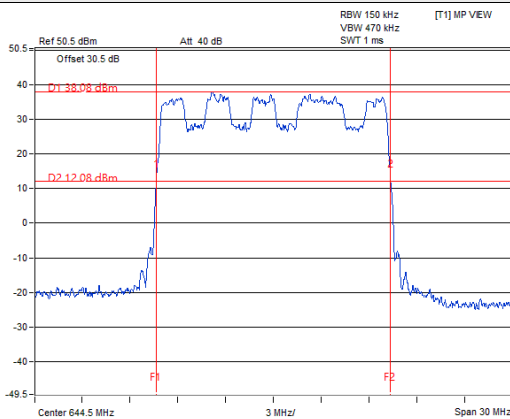
QPSK

Channel: 124900

Channel: 126900

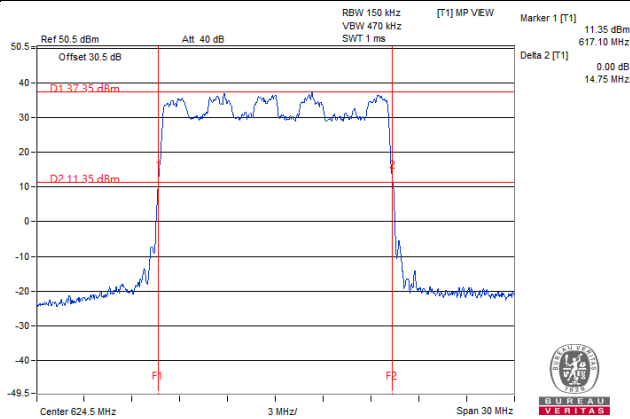


Channel: 128900

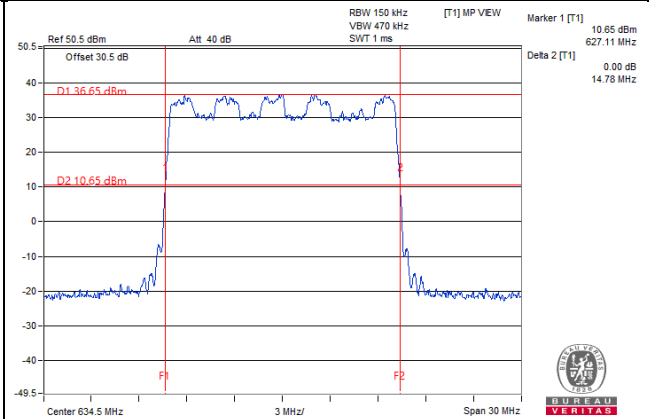


16QAM

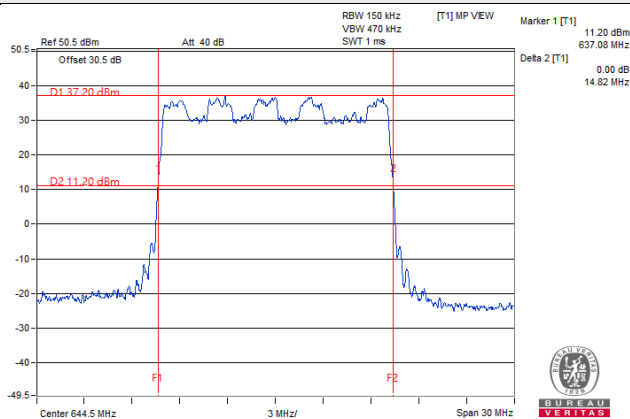
Channel: 124900



Channel: 126900

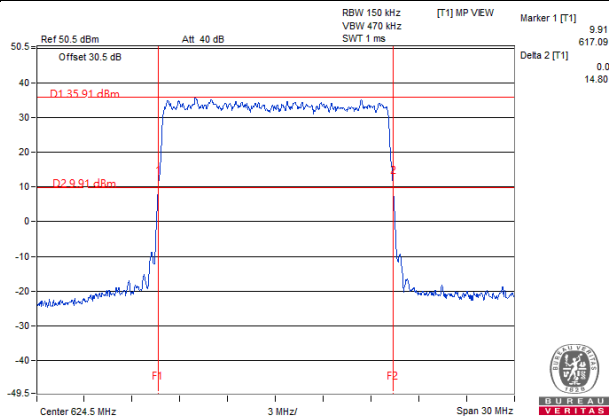


Channel: 128900

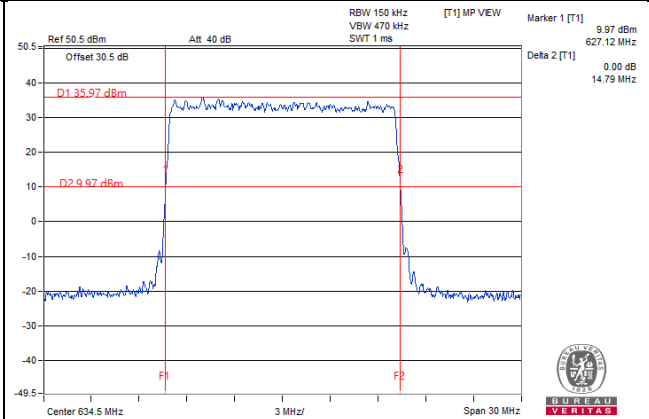


64QAM

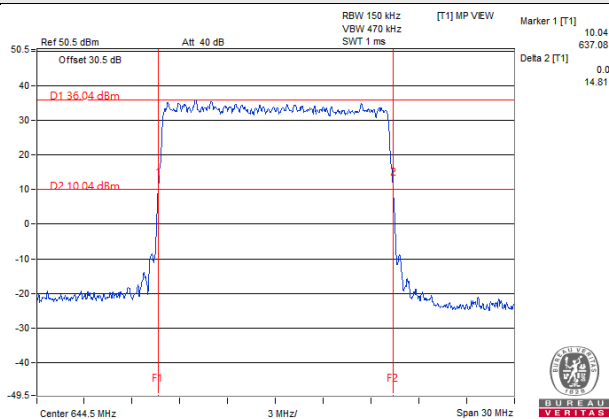
Channel: 124900



Channel: 126900

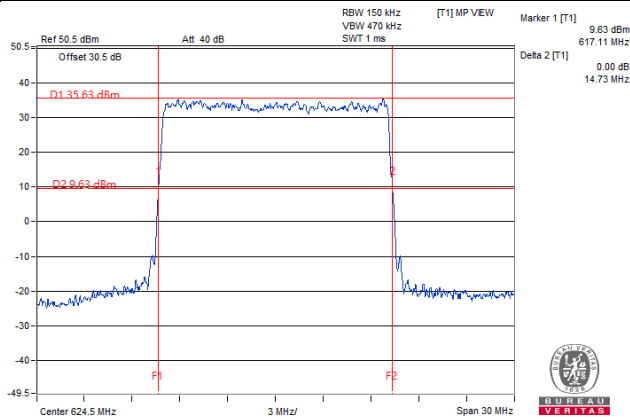


Channel: 128900

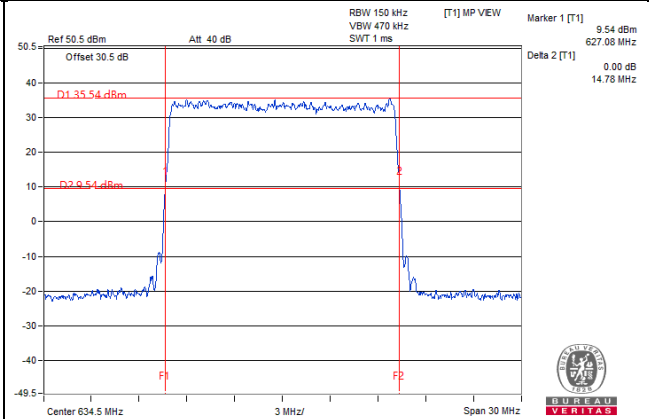


256QAM

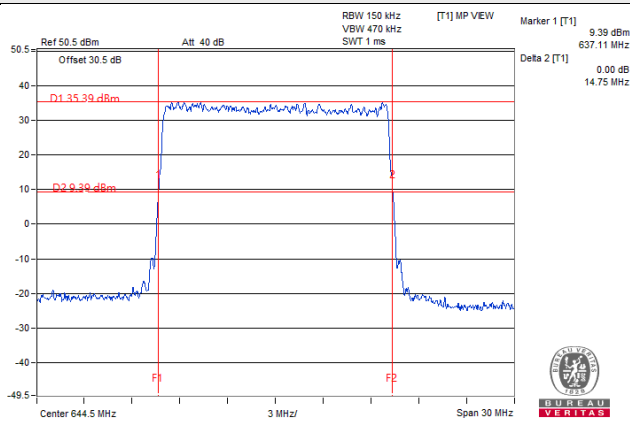
Channel: 124900



Channel: 126900



Channel: 128900

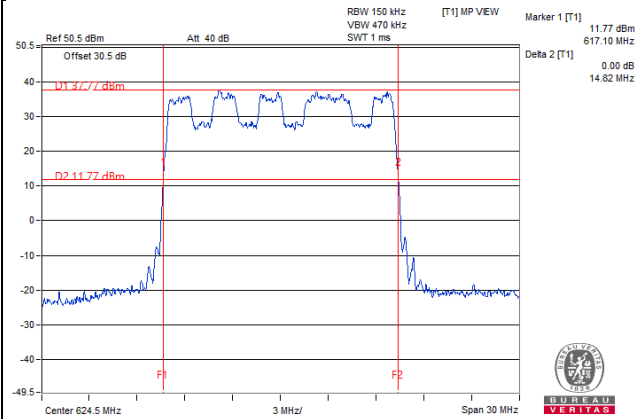


ANT2

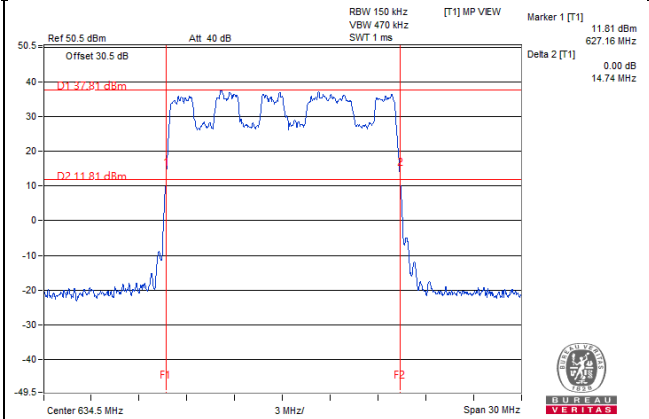
Spectrum Plot of Worst Value -26dBc Bandwidth

QPSK

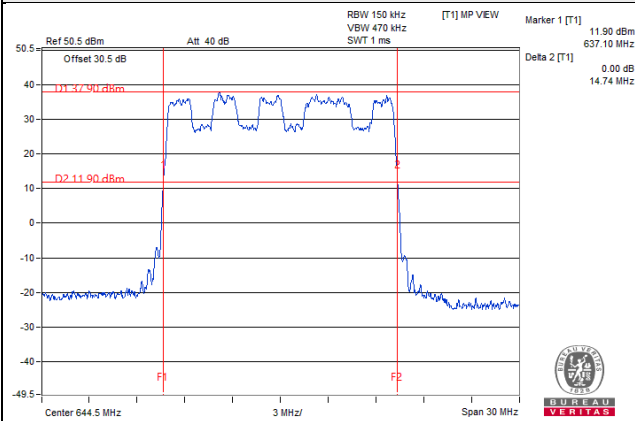
Channel: 124900



Channel: 126900

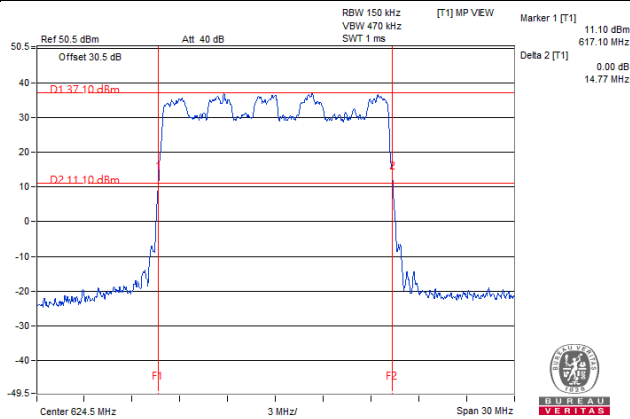


Channel: 128900

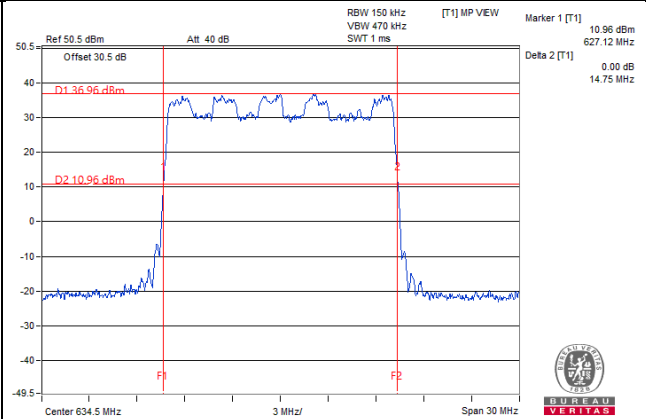


16QAM

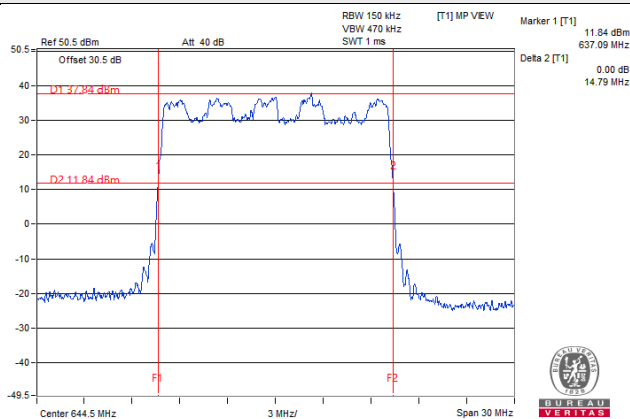
Channel: 124900



Channel: 126900

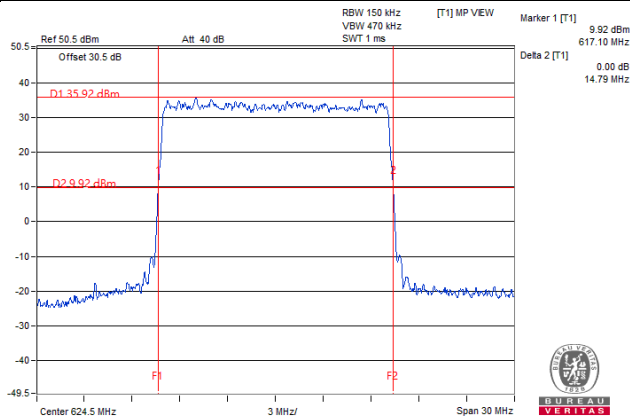


Channel: 128900

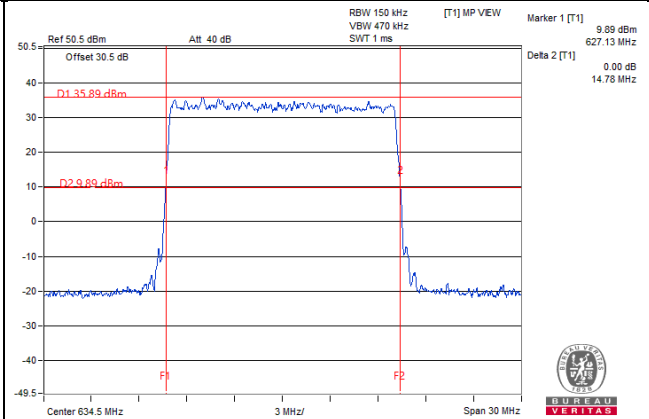


64QAM

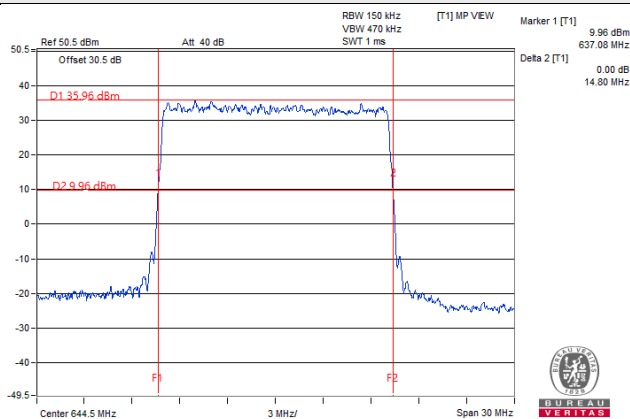
Channel: 124900



Channel: 126900

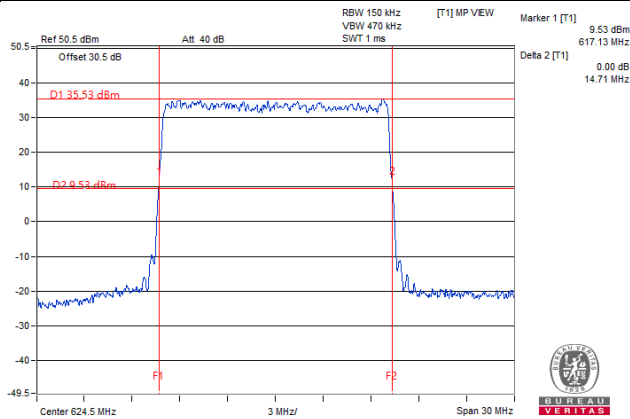


Channel: 128900

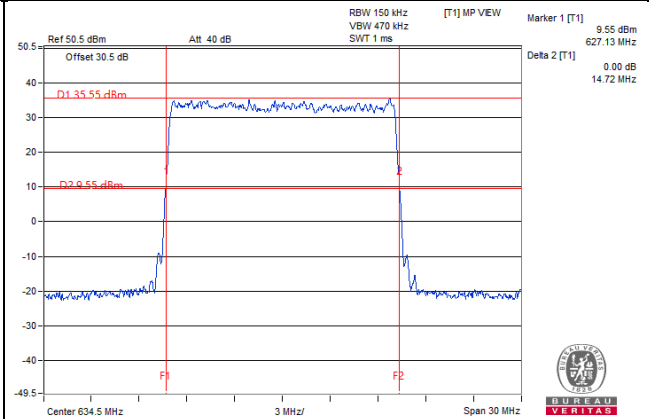


256QAM

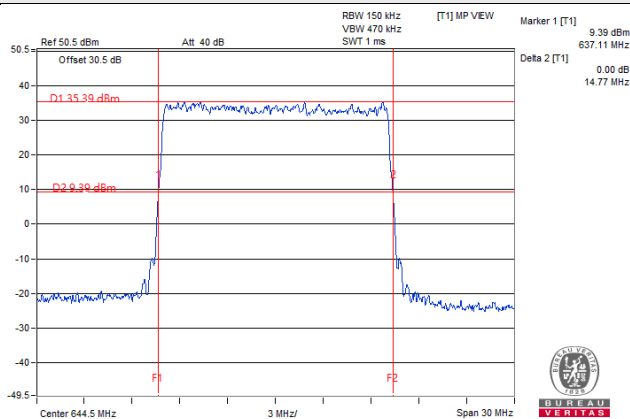
Channel: 124900



Channel: 126900



Channel: 128900



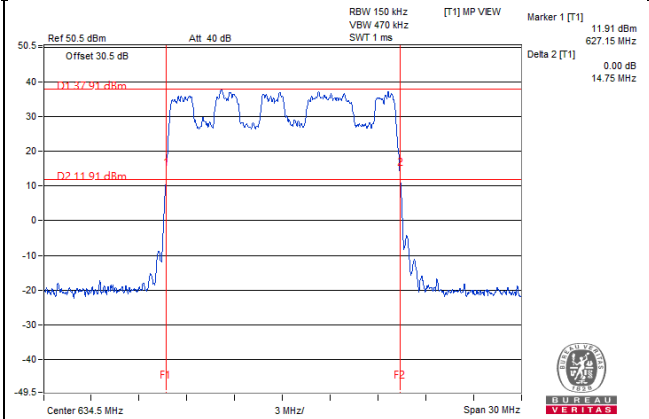
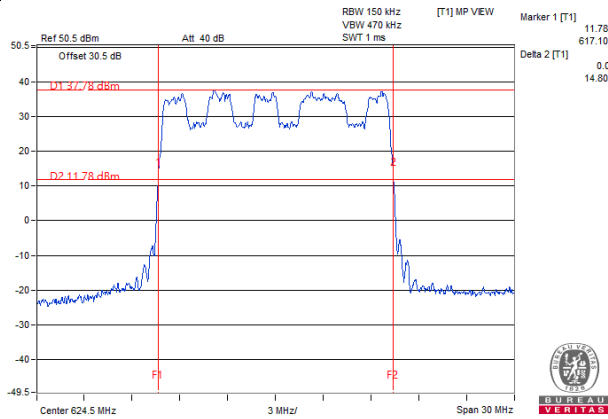
ANT3

Spectrum Plot of Worst Value -26dBc Bandwidth

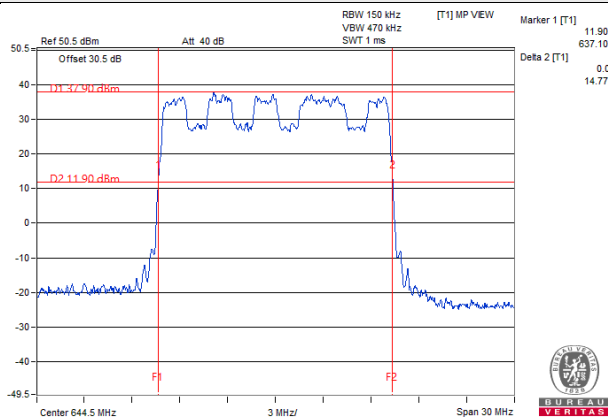
QPSK

Channel: 124900

Channel: 126900

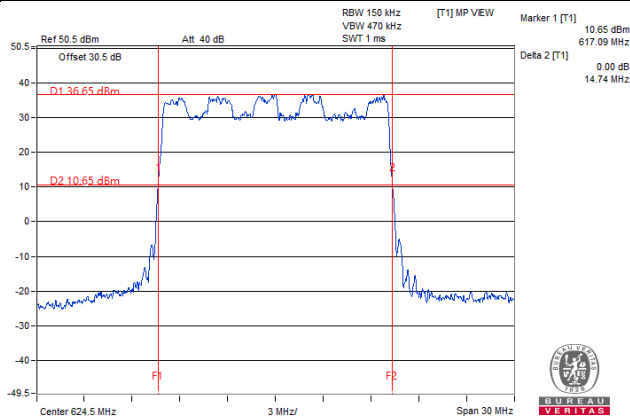


Channel: 128900

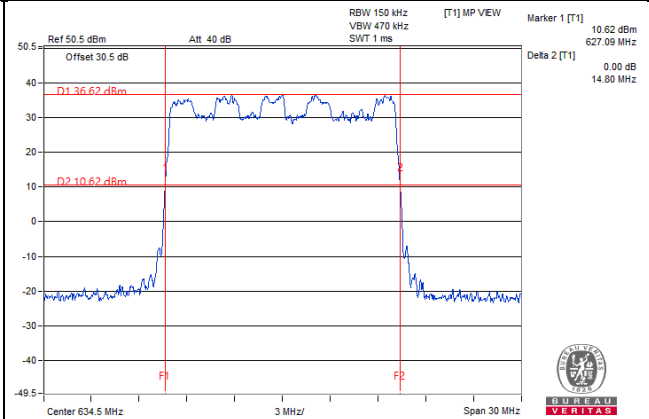


16QAM

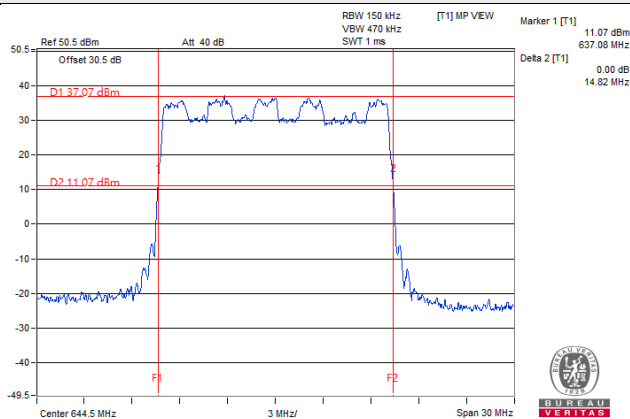
Channel: 124900



Channel: 126900

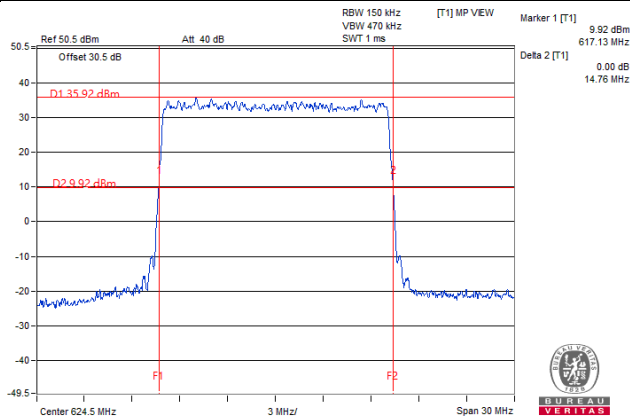


Channel: 128900

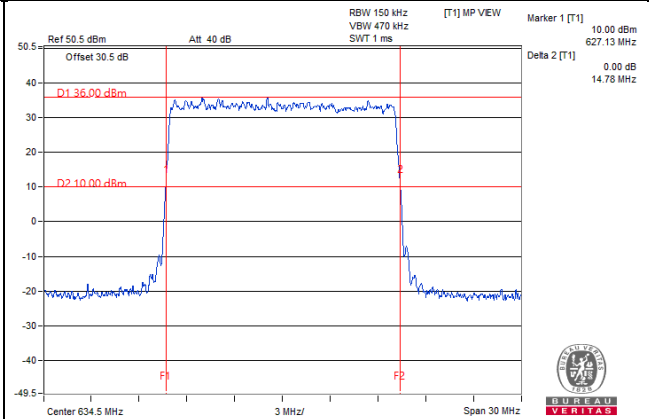


64QAM

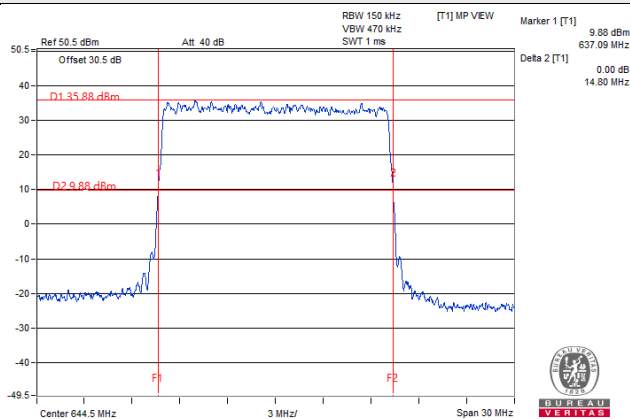
Channel: 124900



Channel: 126900

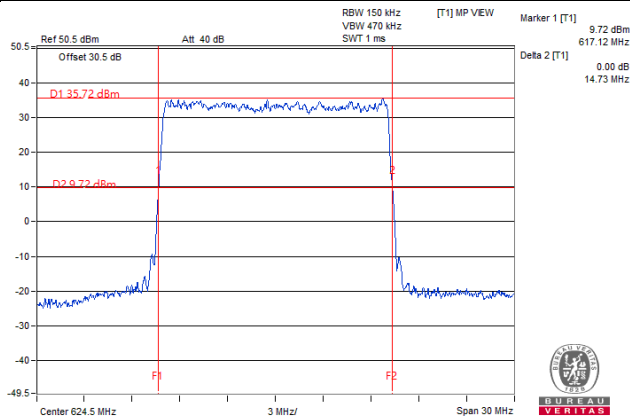


Channel: 128900

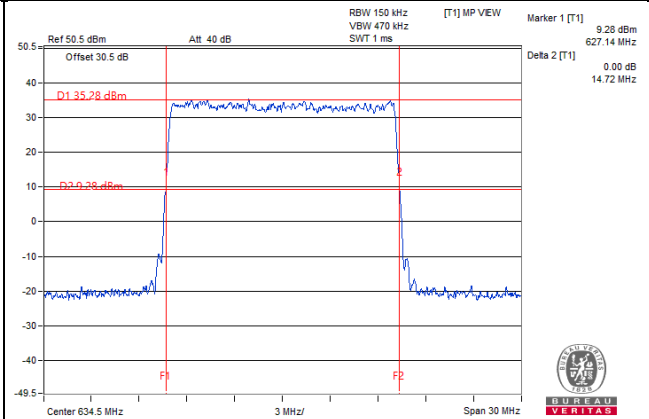


256QAM

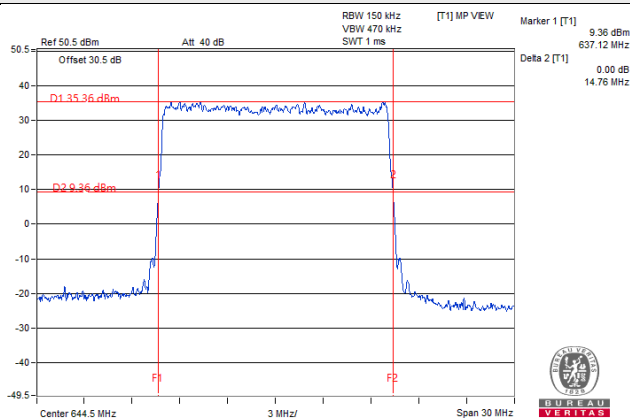
Channel: 124900



Channel: 126900



Channel: 128900



20MHz

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
125400	627	19.81	19.68	19.80	19.79	19.80	19.74	19.80	19.79	19.81	19.71	19.79	19.79	19.78	19.73	19.78	19.79
126900	634.5	19.73	19.71	19.79	19.79	19.73	19.69	19.80	19.78	19.74	19.69	19.73	19.79	19.73	19.71	19.77	19.79
128400	642	19.75	19.69	19.75	19.79	19.70	19.68	19.75	19.79	19.71	19.70	19.74	19.79	19.71	19.69	19.76	19.76

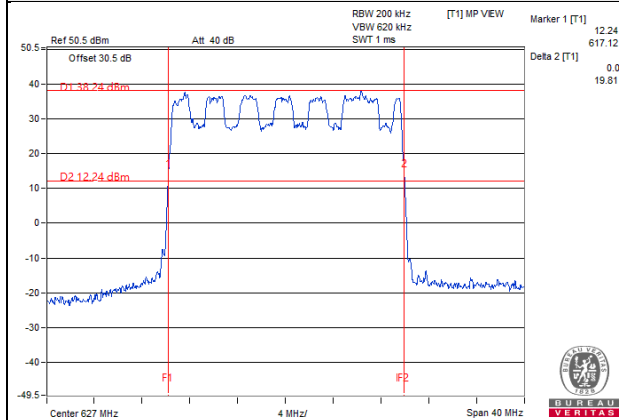
ANT0

Spectrum Plot of Worst Value

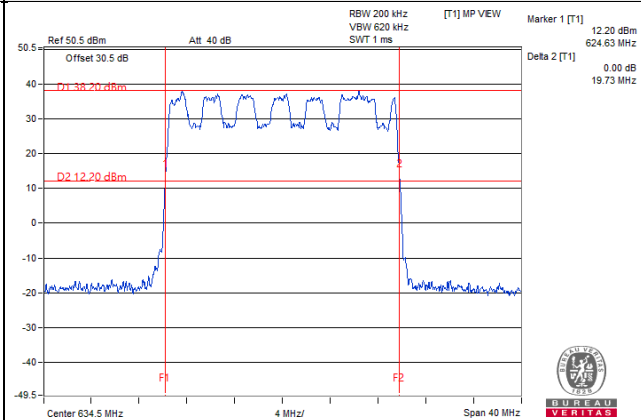
-26dBc Bandwidth

QPSK

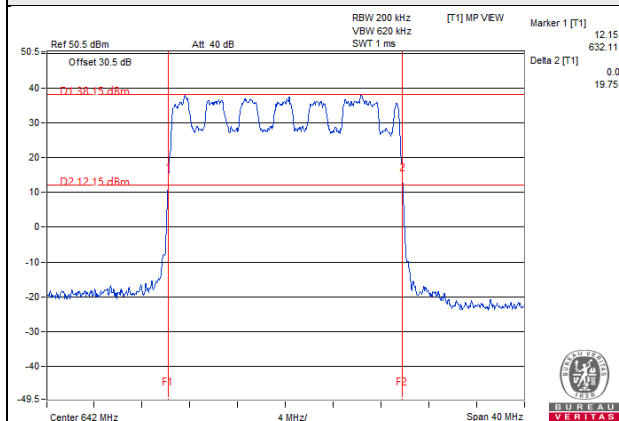
Channel: 125400



Channel: 126900

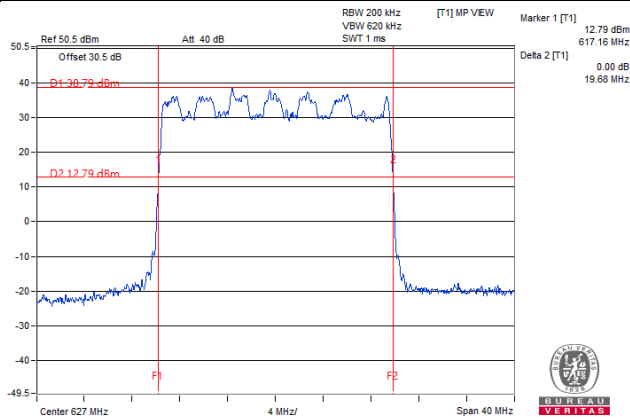


Channel: 128400

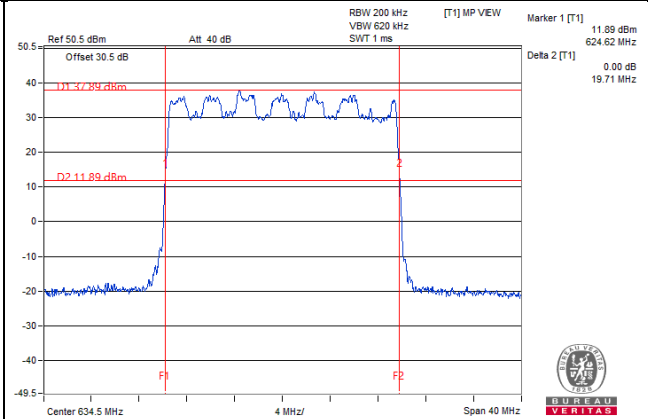


16QAM

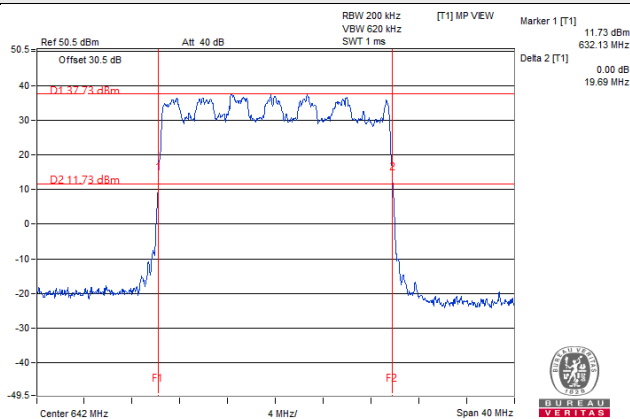
Channel: 125400



Channel: 126900

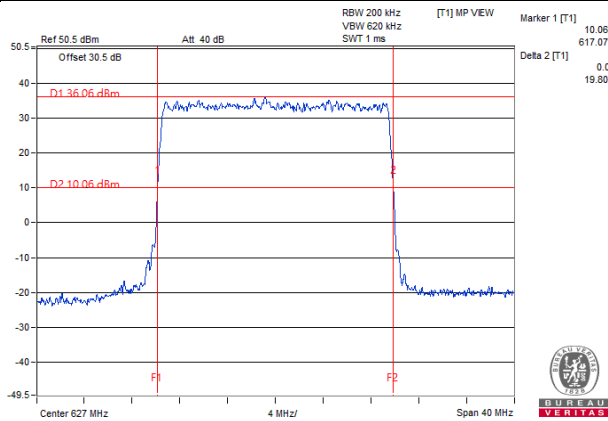


Channel: 128400

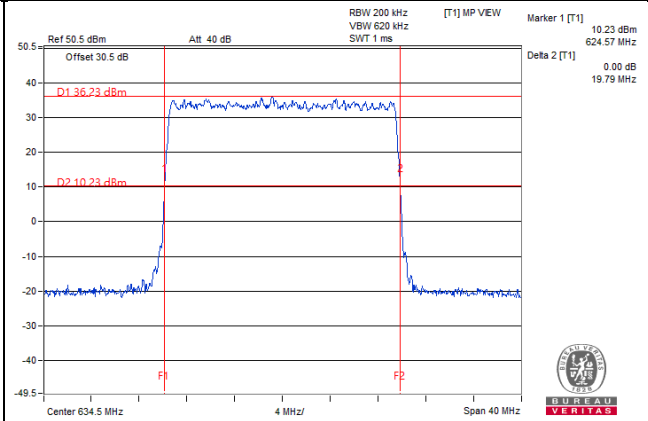


64QAM

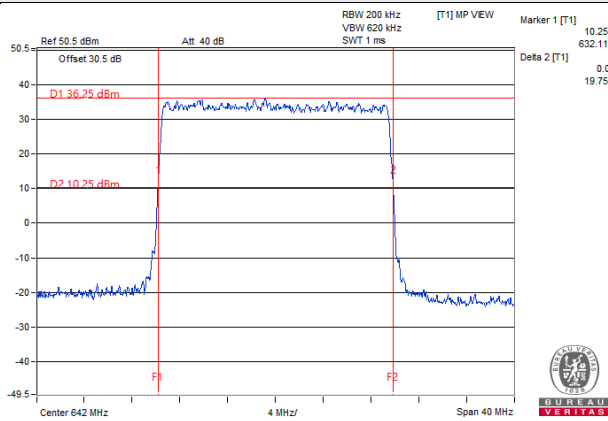
Channel: 125400



Channel: 126900

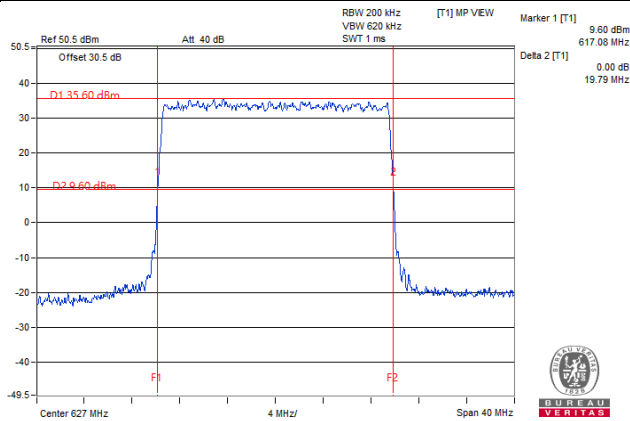


Channel: 128400

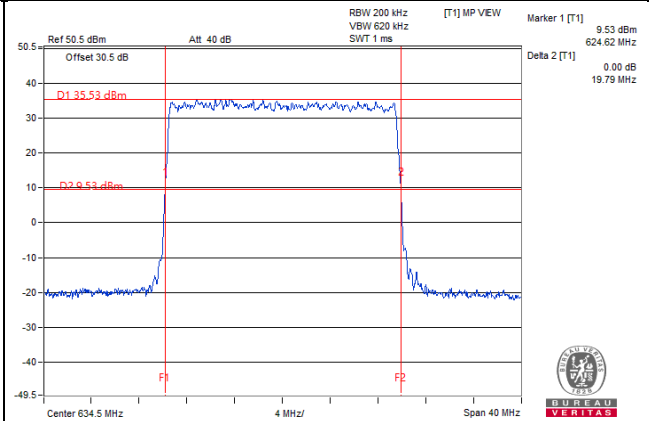


256QAM

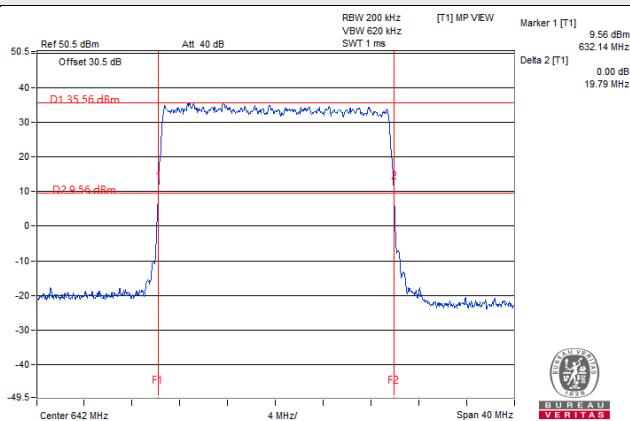
Channel: 125400



Channel: 126900



Channel: 128400



ANT1

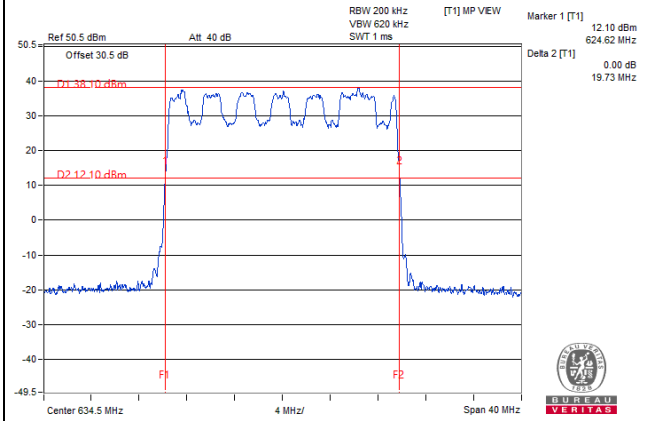
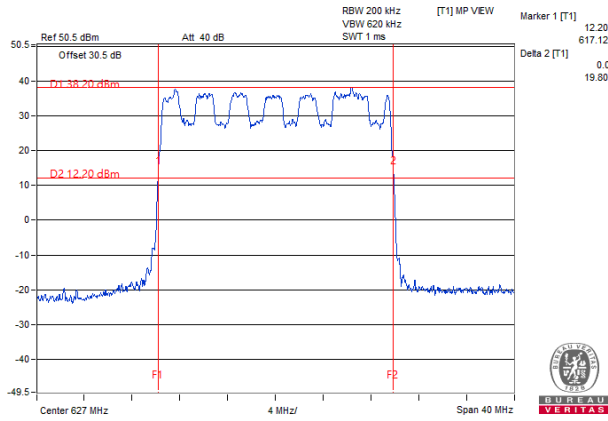
Spectrum Plot of Worst Value

-26dBc Bandwidth

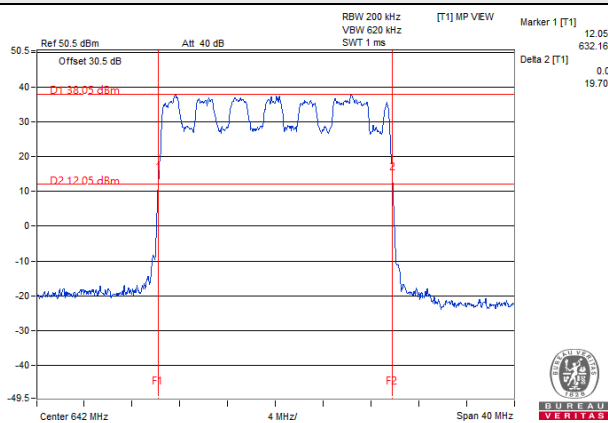
QPSK

Channel: 125400

Channel: 126900

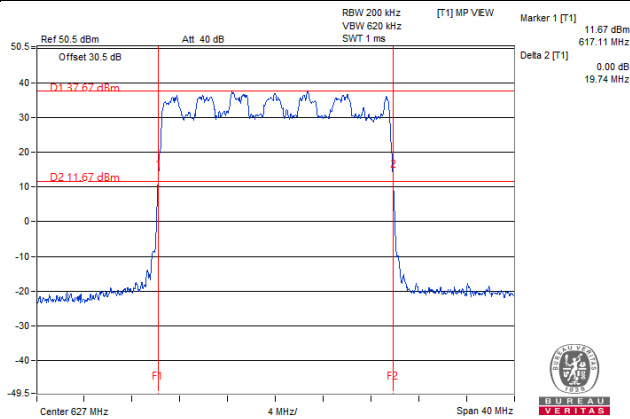


Channel: 128400

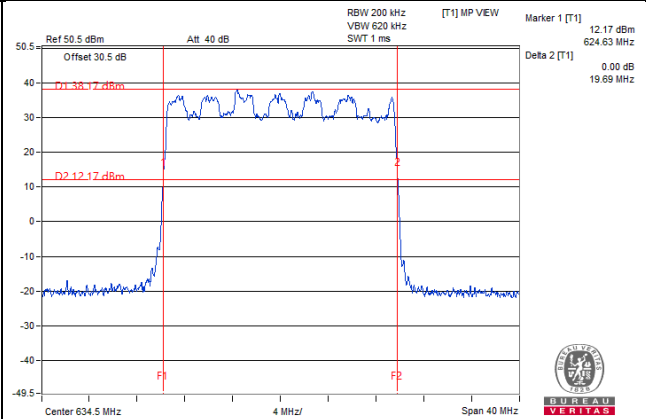


16QAM

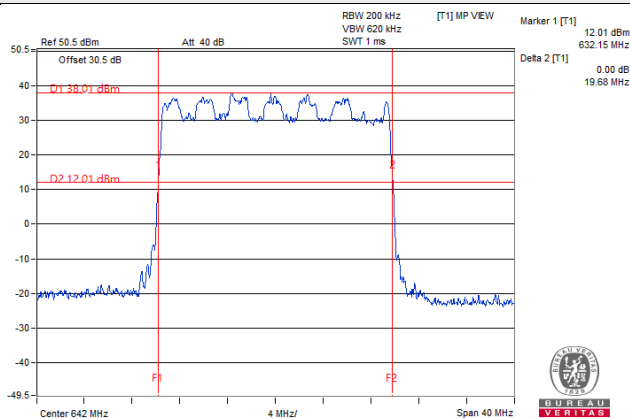
Channel: 125400



Channel: 126900

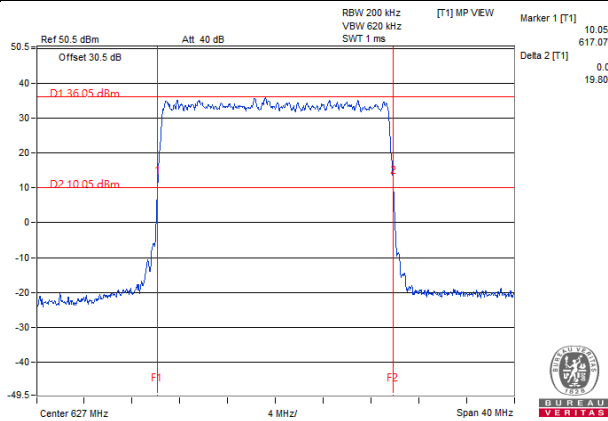


Channel: 128400

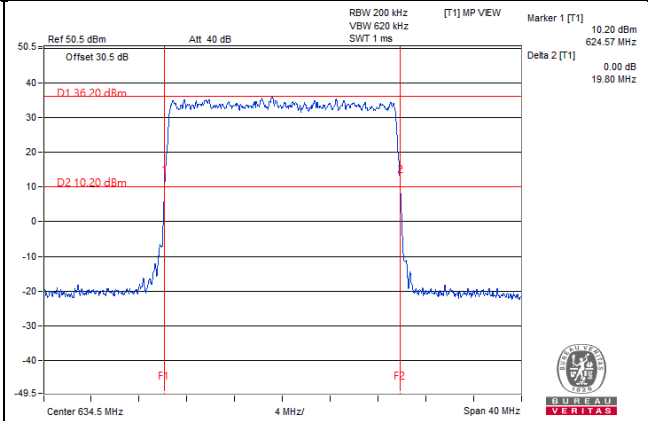


64QAM

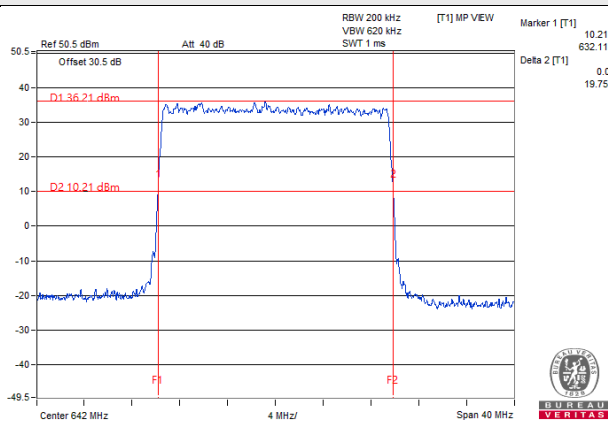
Channel: 125400



Channel: 126900

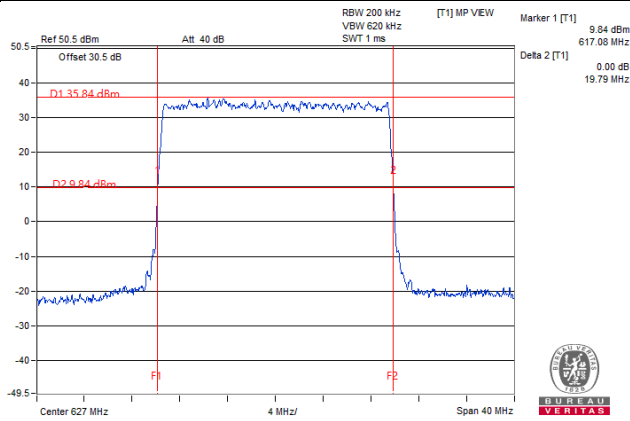


Channel: 128400

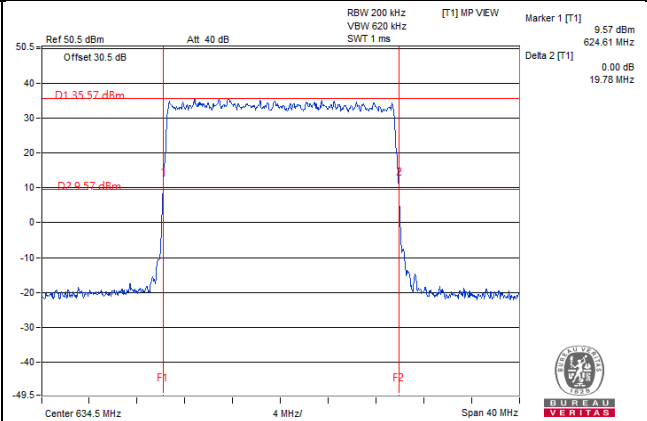


256QAM

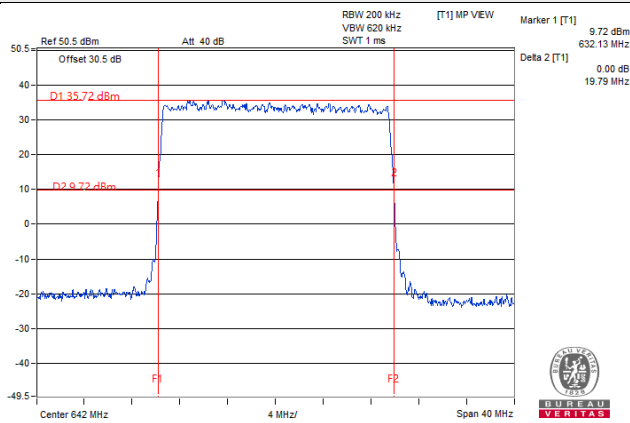
Channel: 125400



Channel: 126900



Channel: 128400



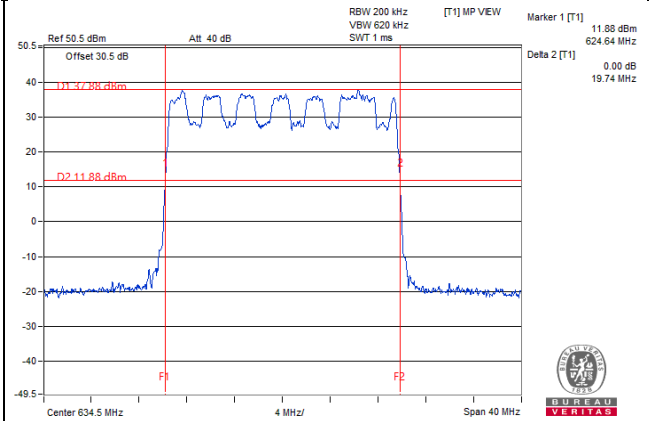
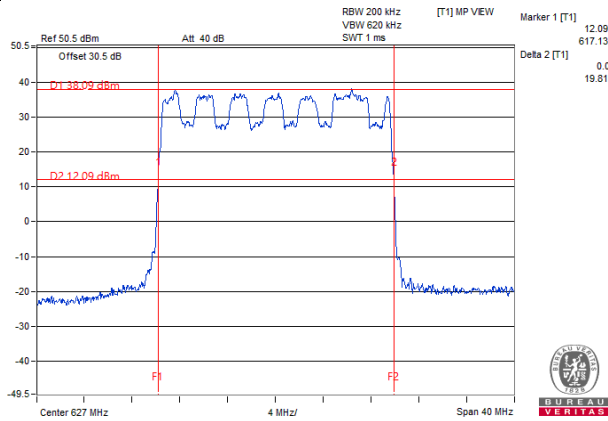
ANT2

Spectrum Plot of Worst Value -26dBc Bandwidth

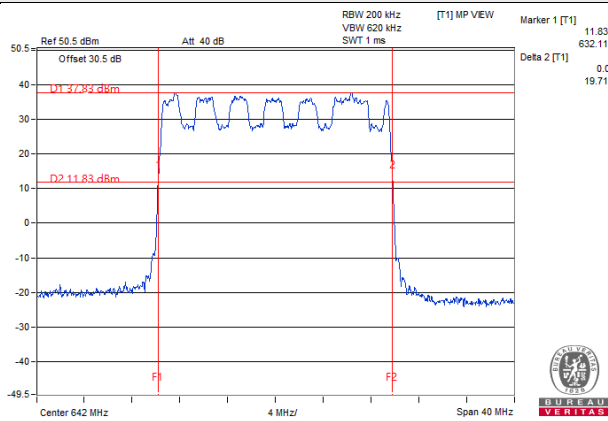
QPSK

Channel: 125400

Channel: 126900

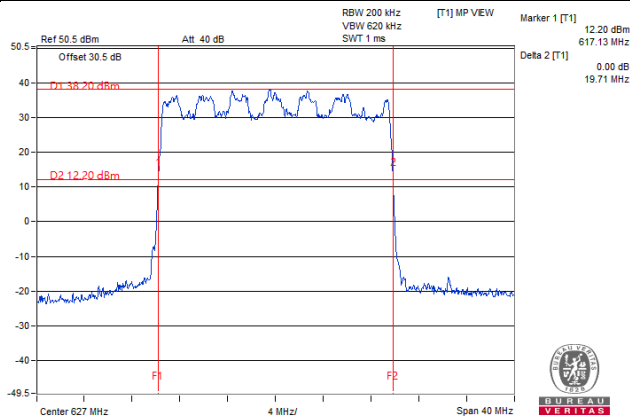


Channel: 128400

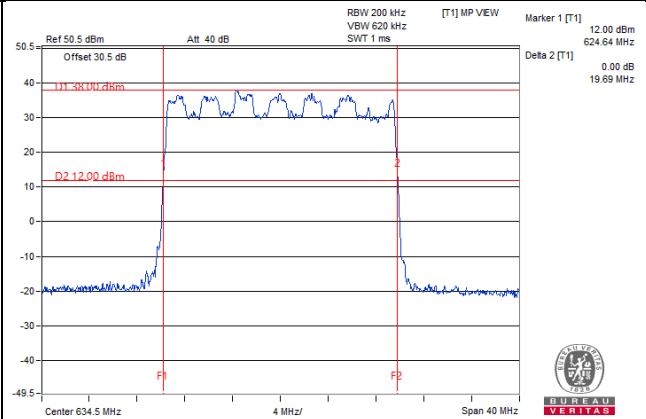


16QAM

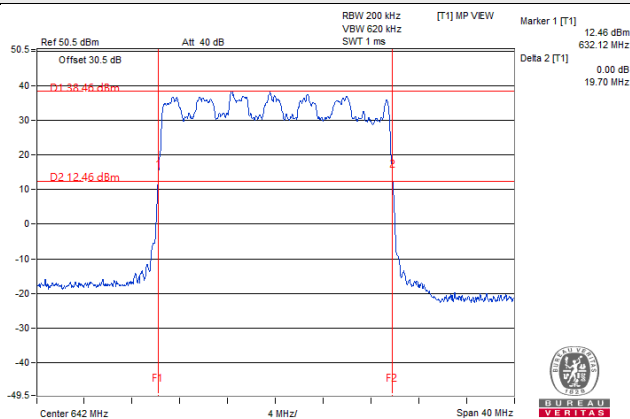
Channel: 125400



Channel: 126900

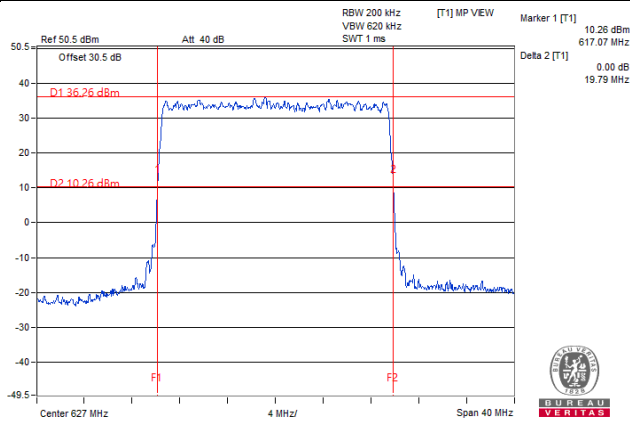


Channel: 128400

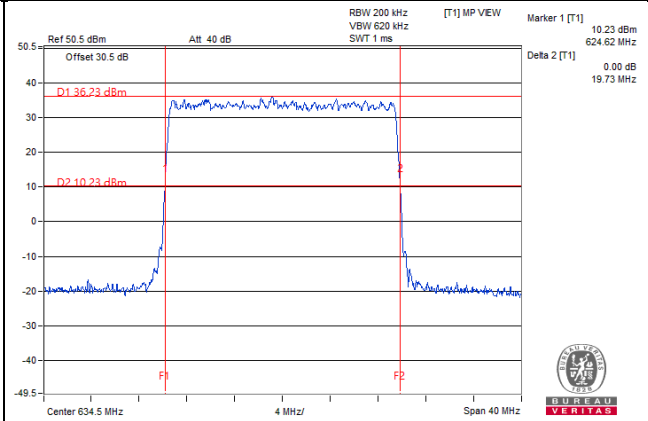


64QAM

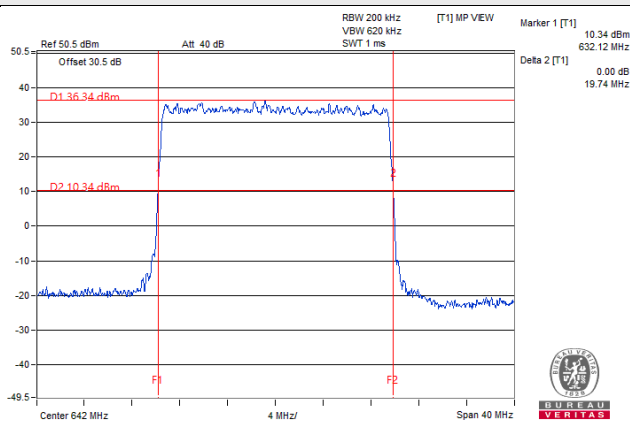
Channel: 125400



Channel: 126900

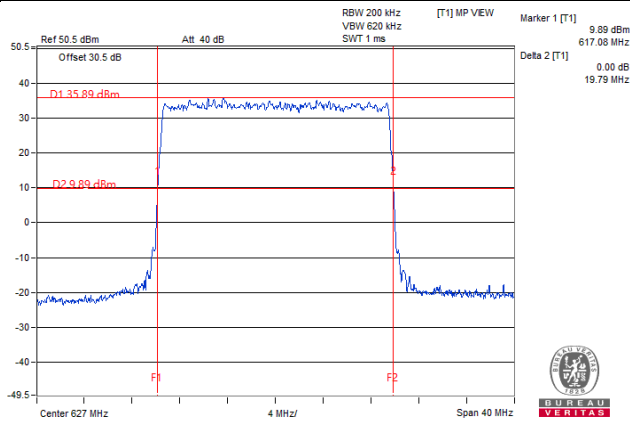


Channel: 128400

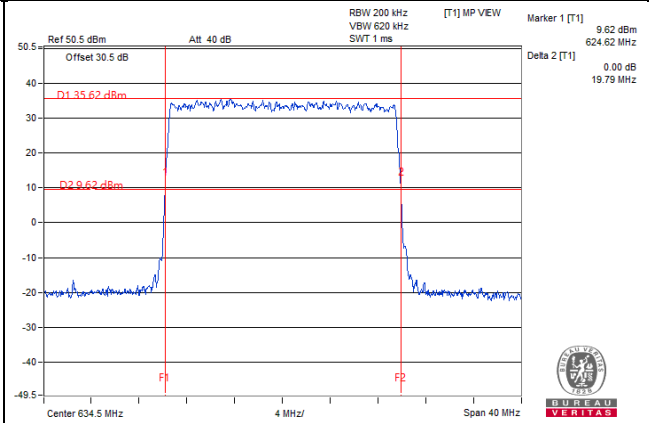


256QAM

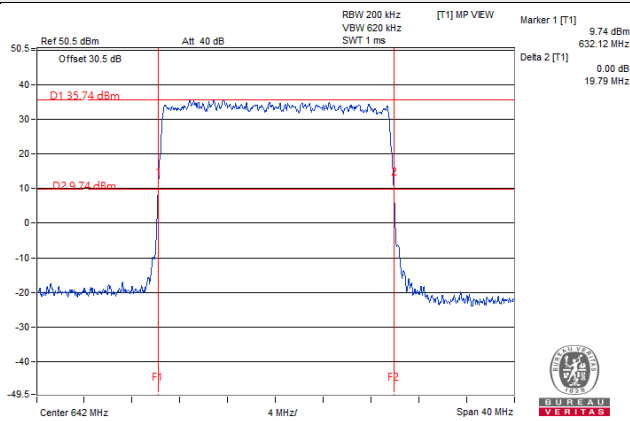
Channel: 125400



Channel: 126900



Channel: 128400



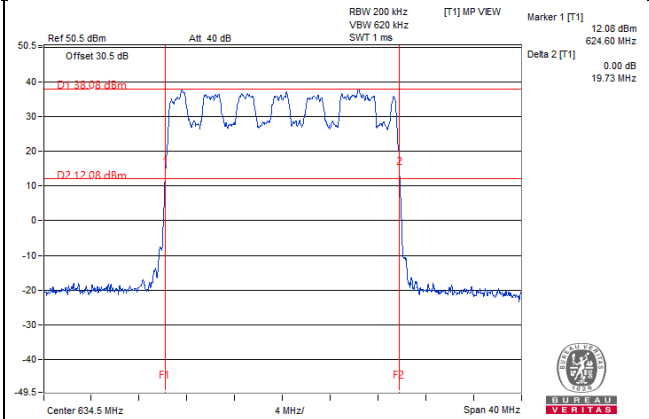
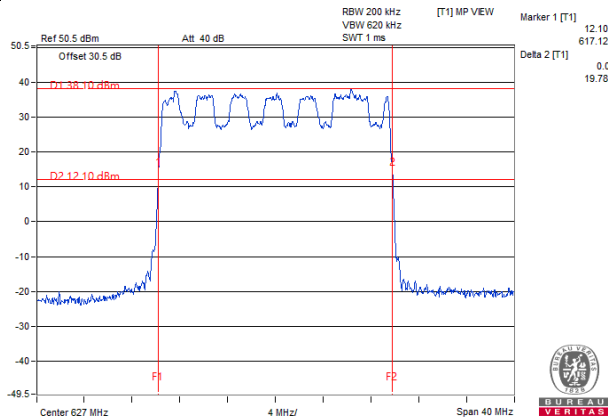
ANT3

Spectrum Plot of Worst Value -26dBc Bandwidth

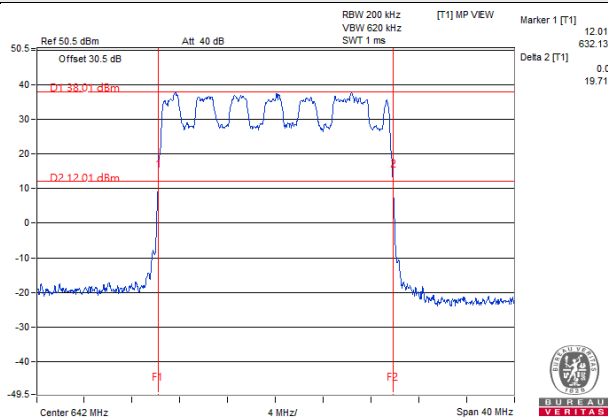
QPSK

Channel: 125400

Channel: 126900

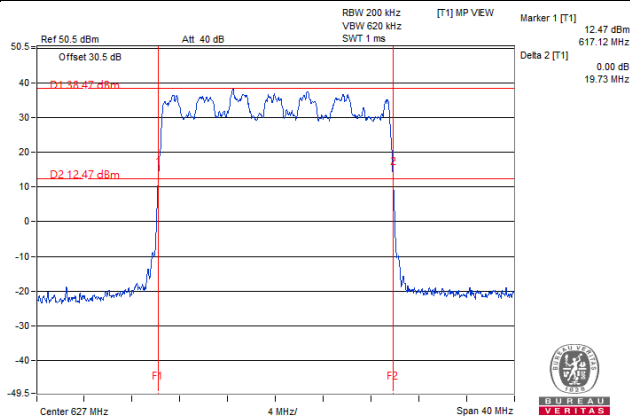


Channel: 128400

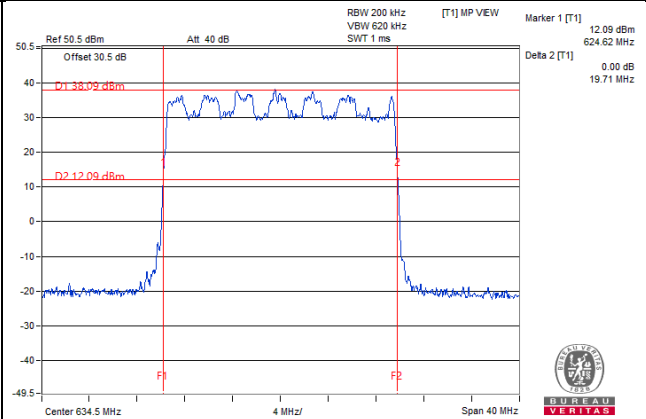


16QAM

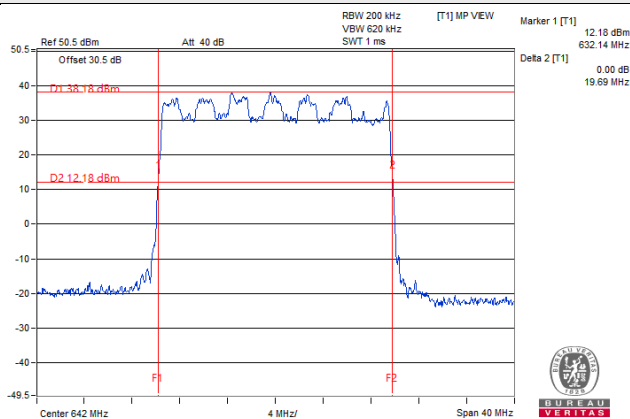
Channel: 125400



Channel: 126900

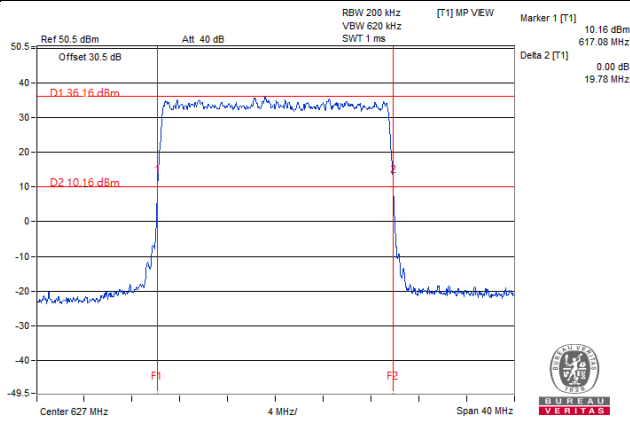


Channel: 128400

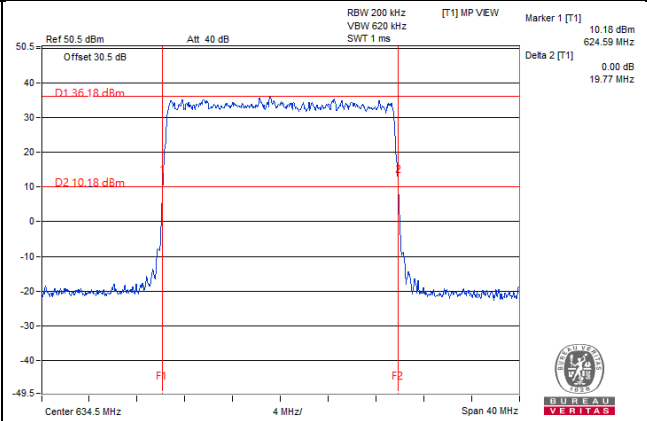


64QAM

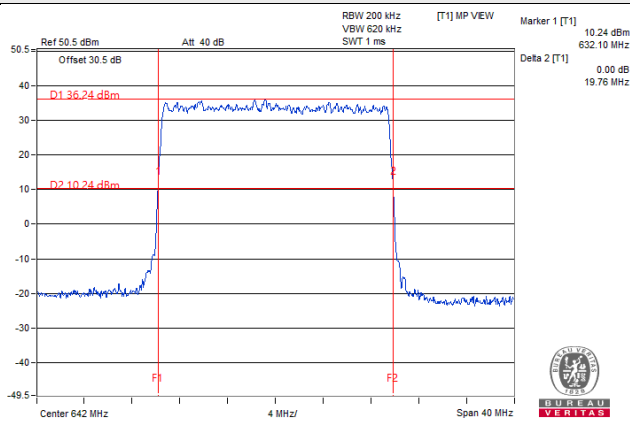
Channel: 125400



Channel: 126900

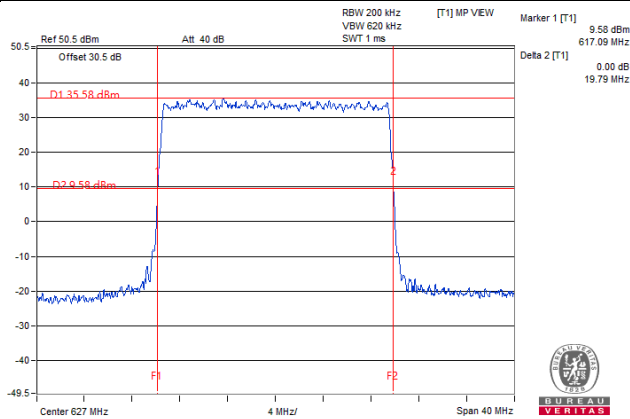


Channel: 128400

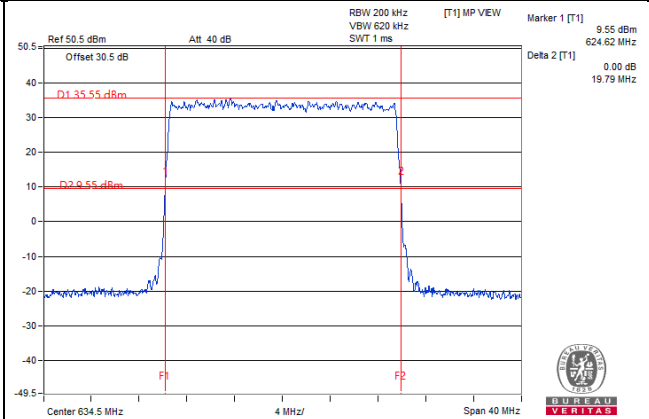


256QAM

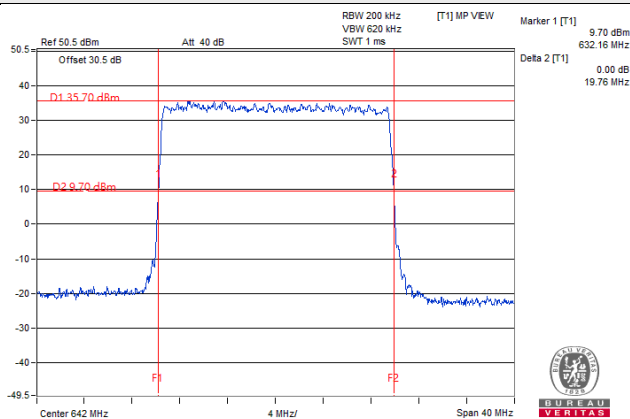
Channel: 125400



Channel: 126900



Channel: 128400

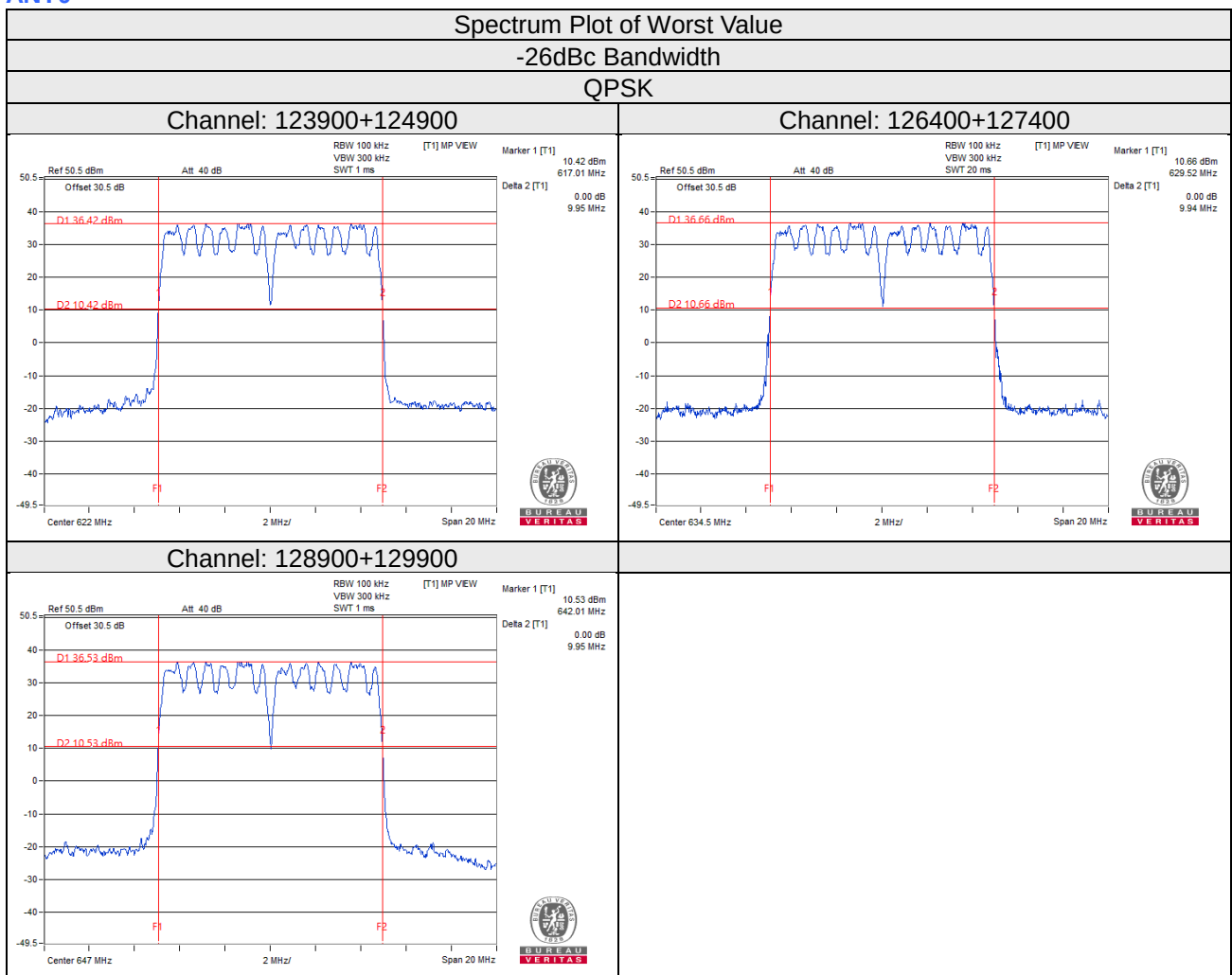


CA-Contiguous

5MHz+5MHz

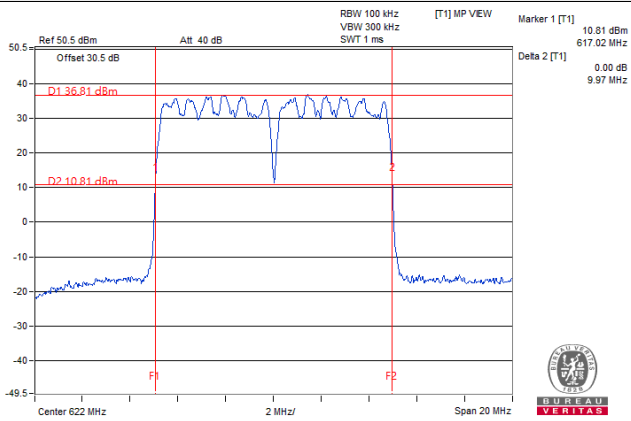
Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
123900+	619.5+	9.95	9.97	9.94	9.96	9.97	9.95	9.95	9.97	9.94	9.96	9.97	9.96	9.94	9.97	9.97	9.95
124900	624.5																
126400+	632+	9.94	9.95	9.95	9.97	9.94	9.96	9.96	9.97	9.93	9.96	9.95	9.97	9.94	9.96	9.96	9.94
127400	637																
128900+	644.5+	9.95	9.97	9.94	9.96	9.95	9.97	9.96	9.94	9.94	9.97	9.96	9.95	9.95	9.97	9.95	9.96
129900	649.5																

ANT0

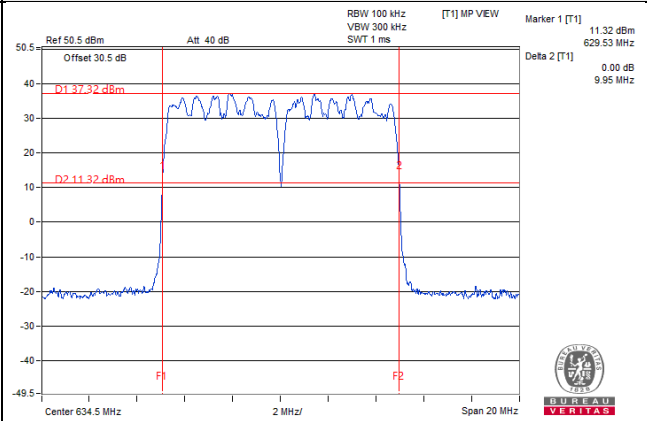


16QAM

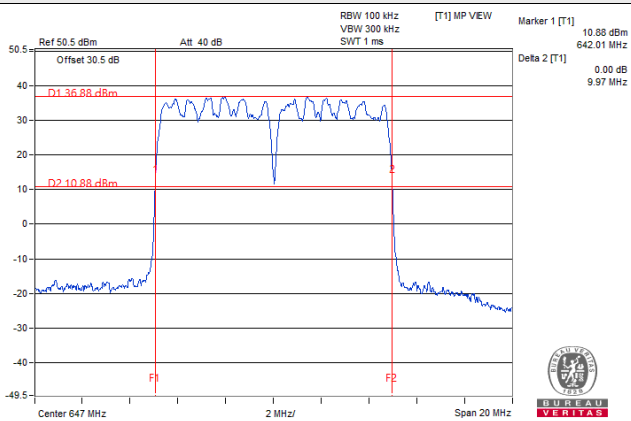
Channel: 123900+124900



Channel: 126400+127400

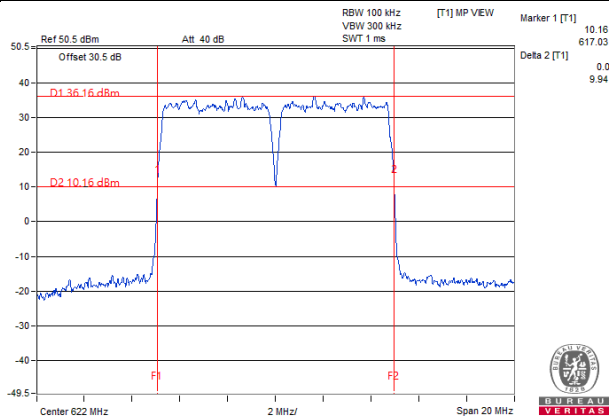


Channel: 128900+129900

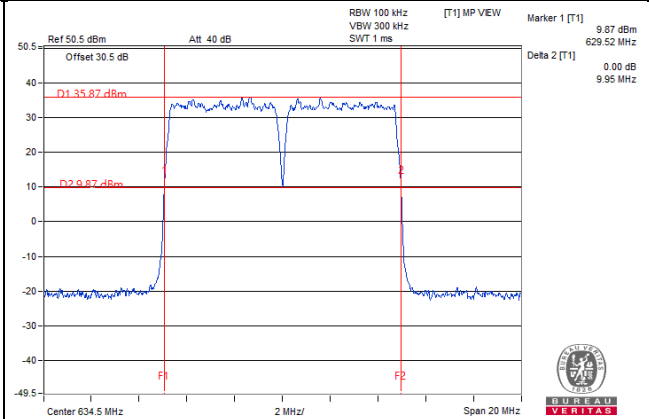


64QAM

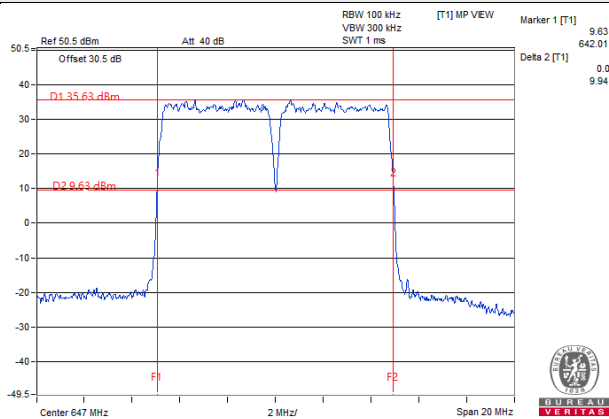
Channel: 123900+124900



Channel: 126400+127400

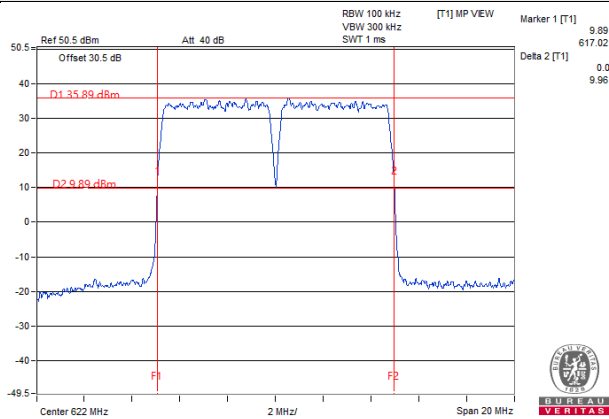


Channel: 128900+129900

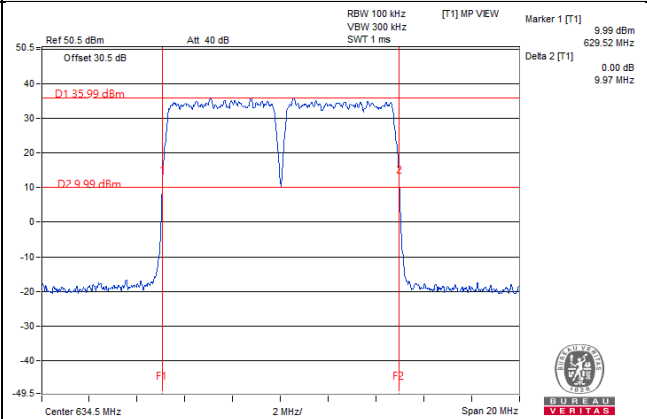


256QAM

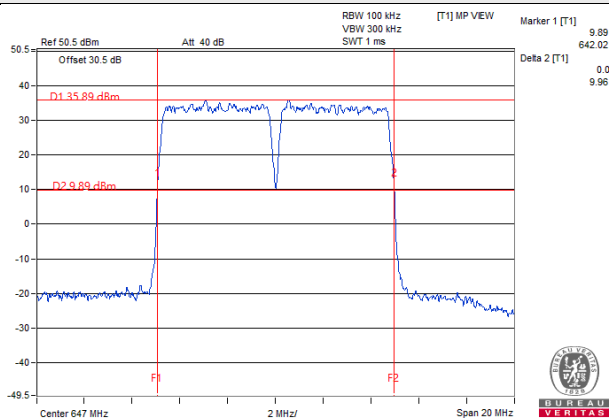
Channel: 123900+124900



Channel: 126400+127400



Channel: 128900+129900

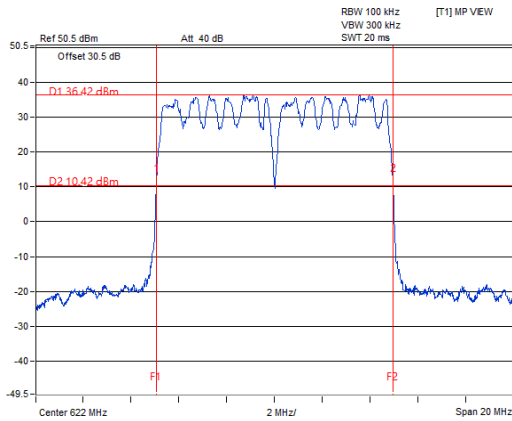


ANT1

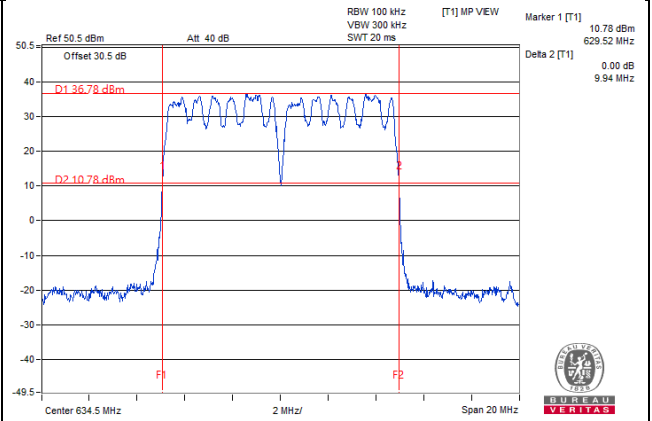
Spectrum Plot of Worst Value -26dBc Bandwidth

QPSK

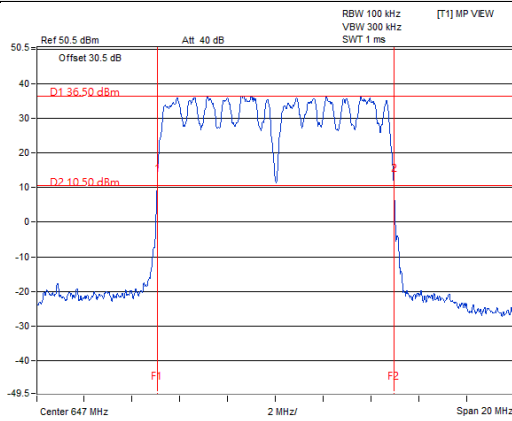
Channel: 123900+124900



Channel: 126400+127400

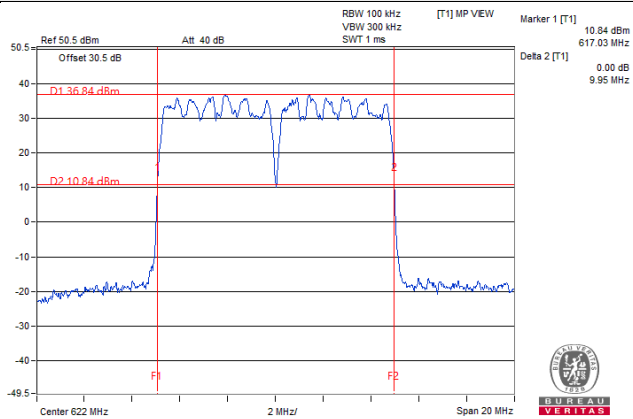


Channel: 128900+129900

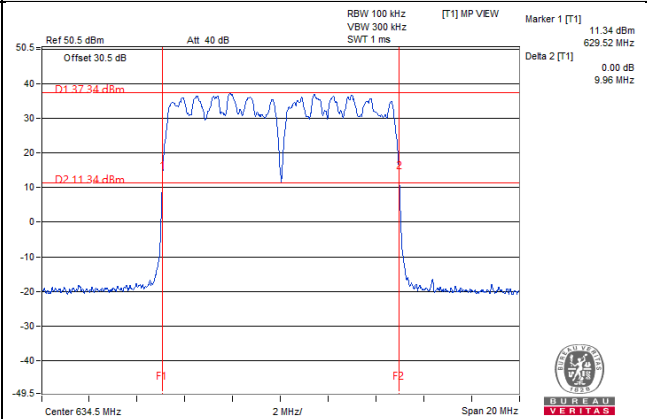


16QAM

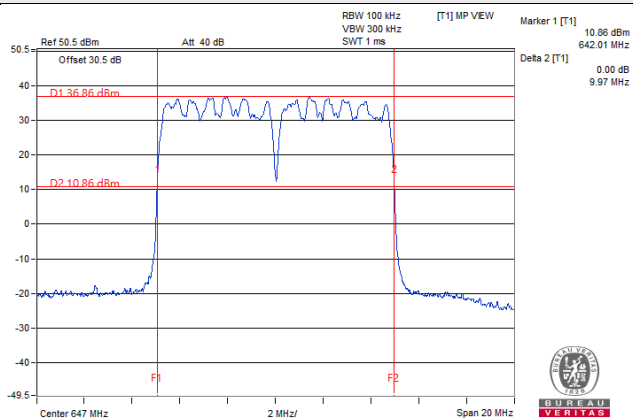
Channel: 123900+124900



Channel: 126400+127400

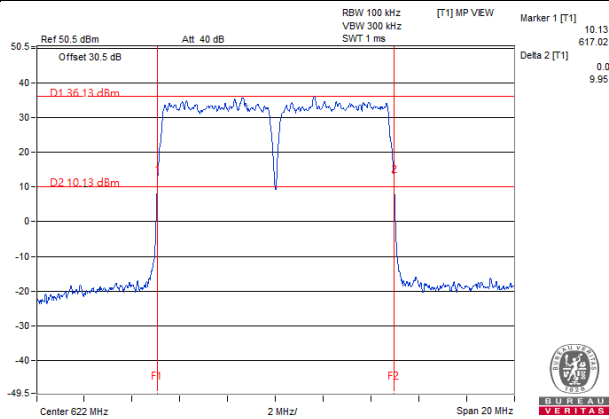


Channel: 128900+129900

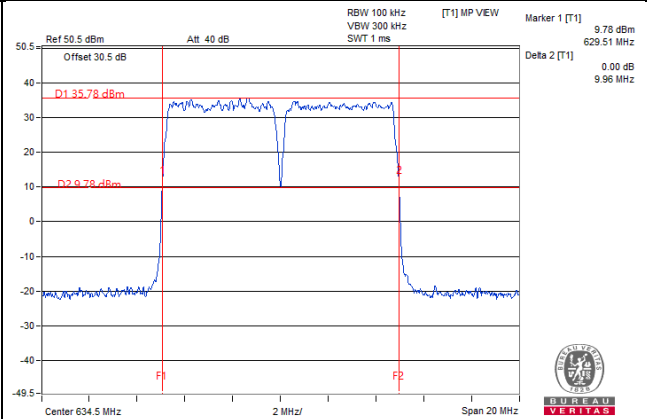


64QAM

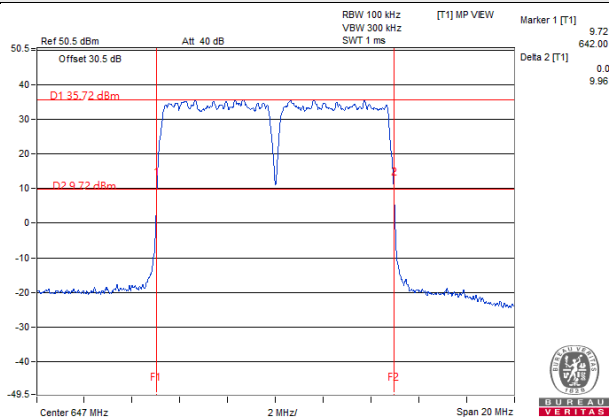
Channel: 123900+124900



Channel: 126400+127400

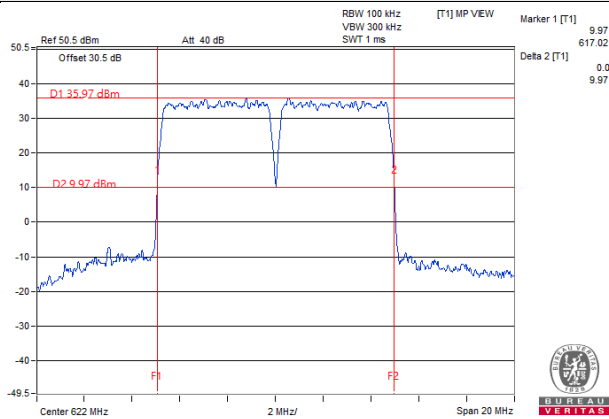


Channel: 128900+129900

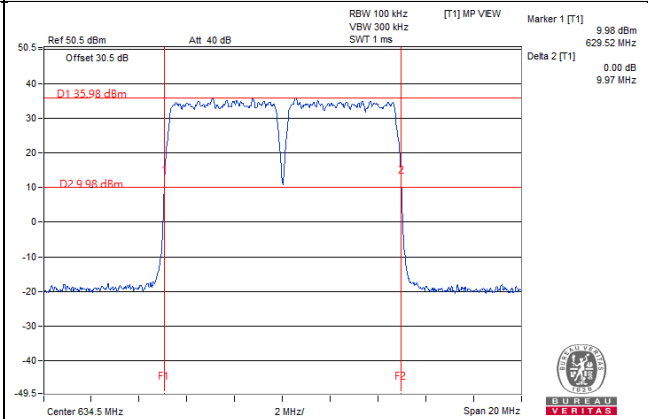


256QAM

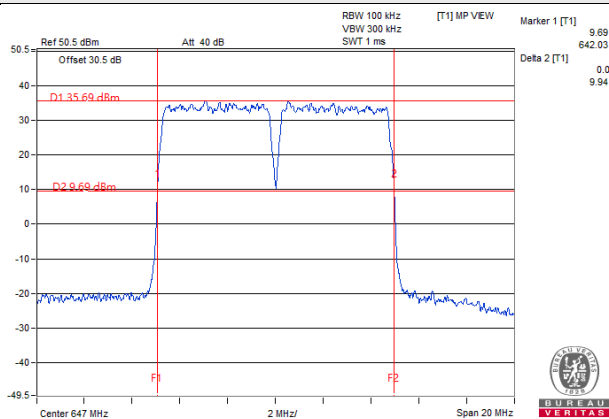
Channel: 123900+124900



Channel: 126400+127400



Channel: 128900+129900

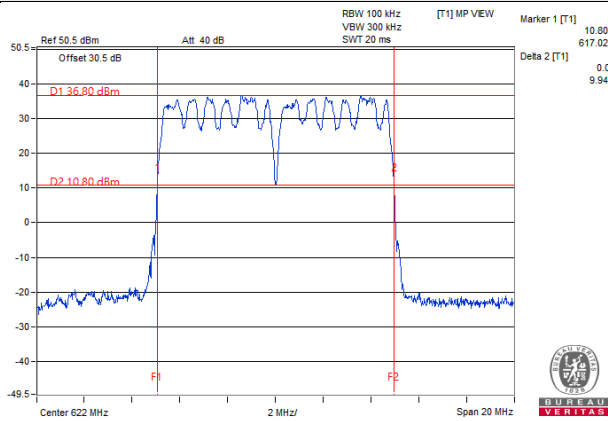


ANT2

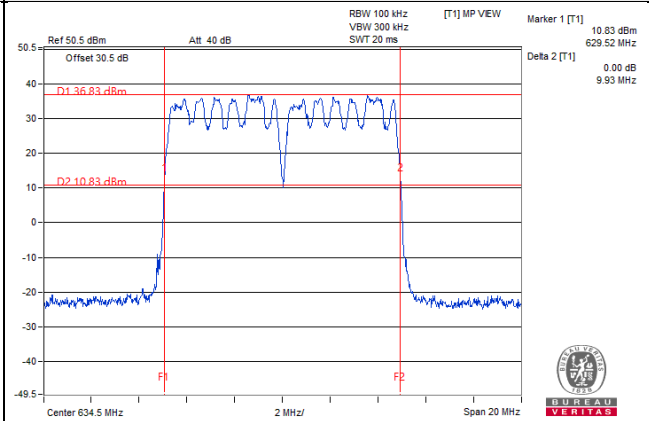
Spectrum Plot of Worst Value -26dBc Bandwidth

QPSK

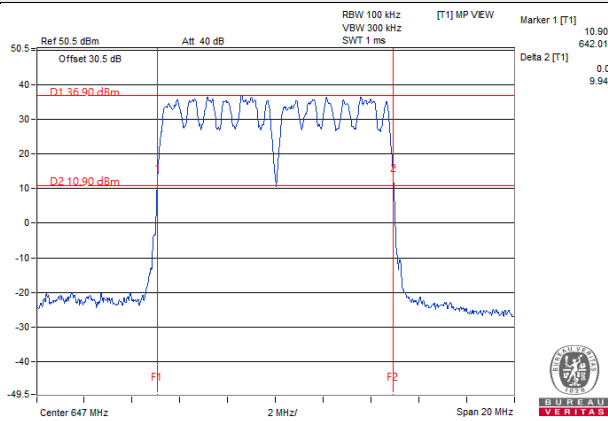
Channel: 123900+124900



Channel: 126400+127400

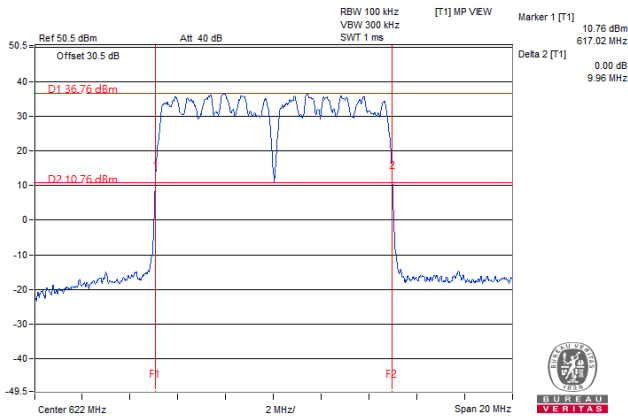


Channel: 128900+129900

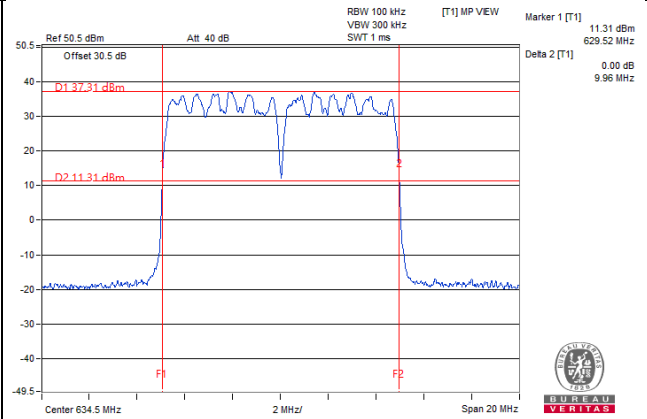


16QAM

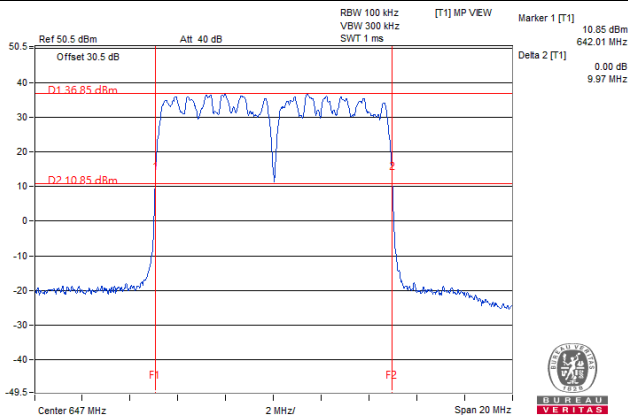
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Channel: 126400+127400

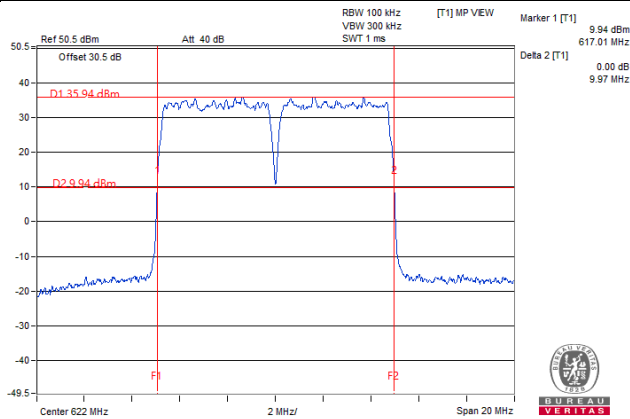


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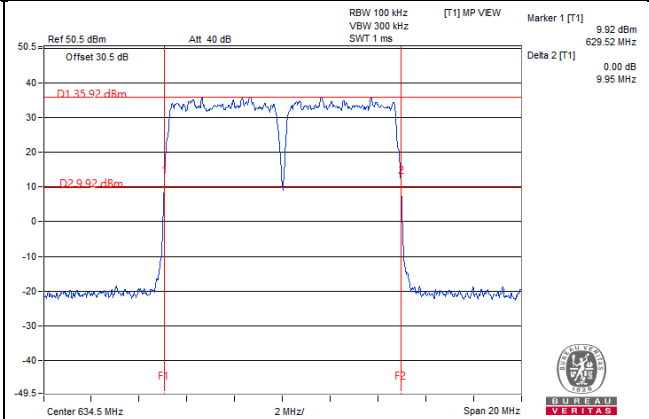


64QAM

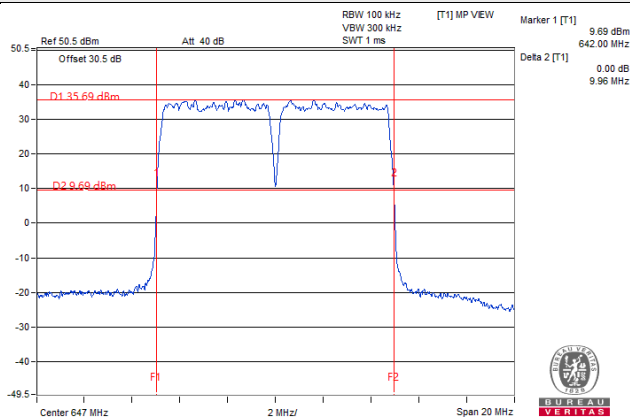
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Channel: 126400+127400

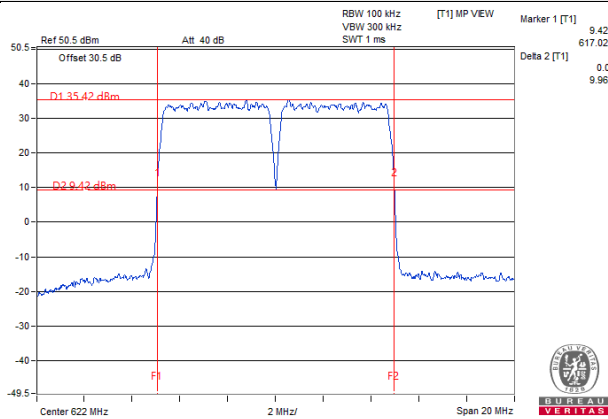


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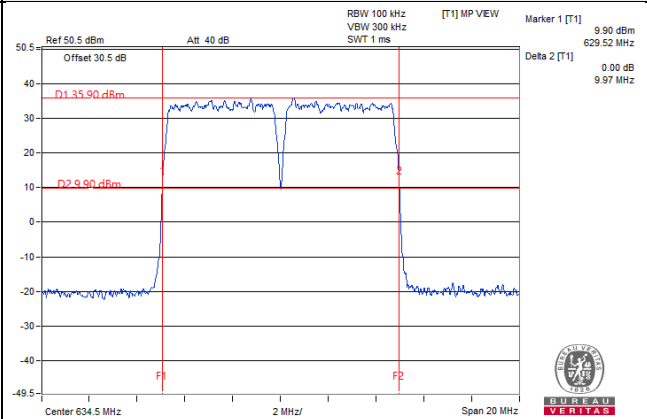


256QAM

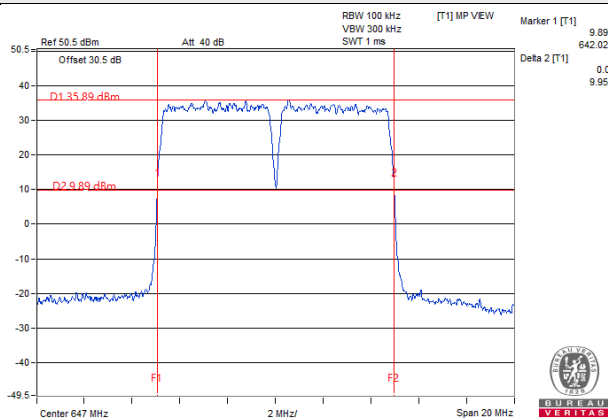
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Channel: 126400+127400



Channel: 128900+129900

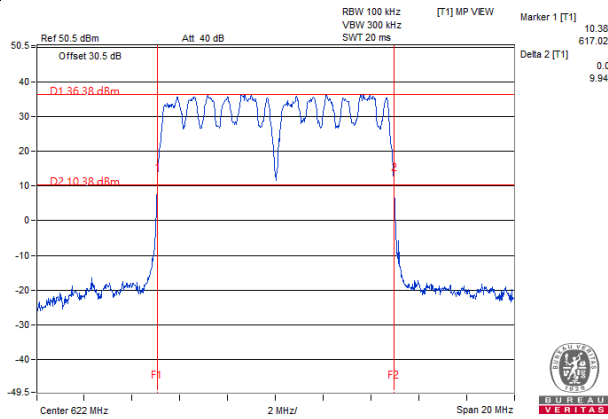


ANT3

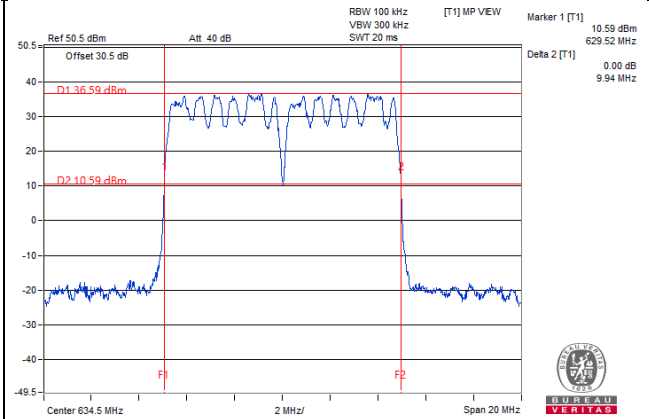
Spectrum Plot of Worst Value
-26dBc Bandwidth

QPSK

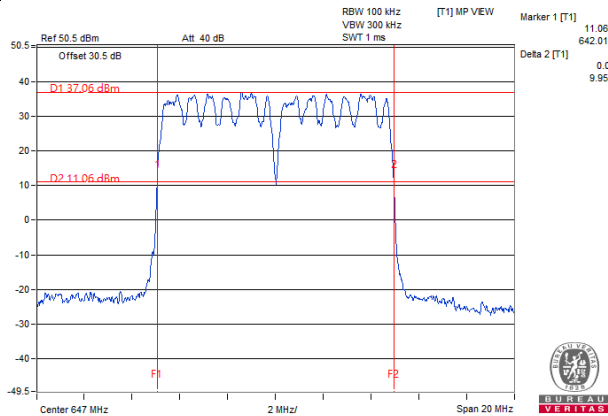
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Channel: 126400+127400

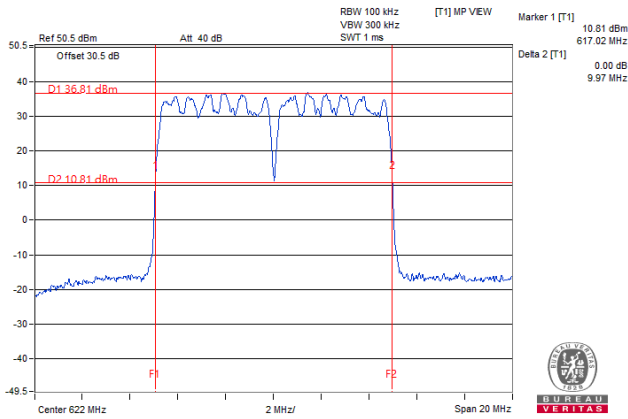


Channel: 128900+129900

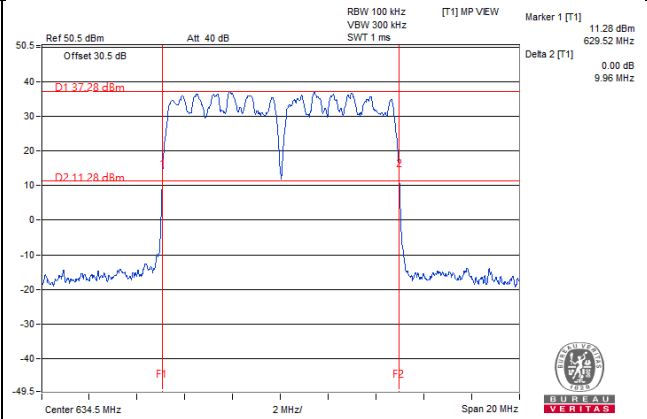


16QAM

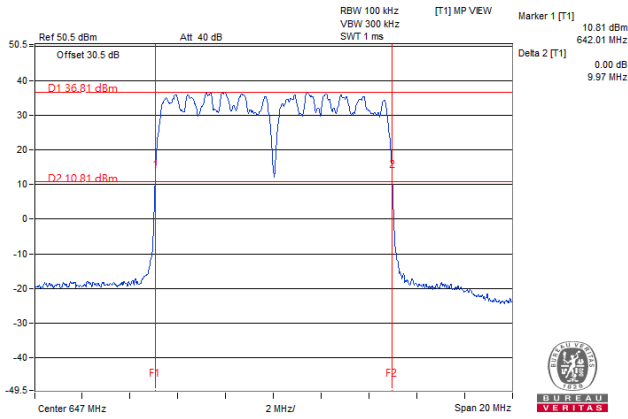
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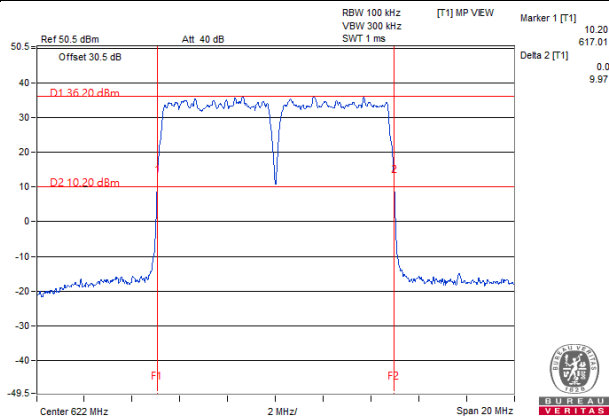


Channel: 128900+129900

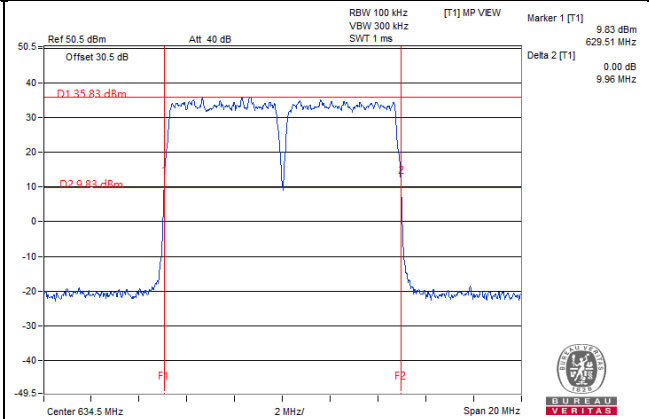


64QAM

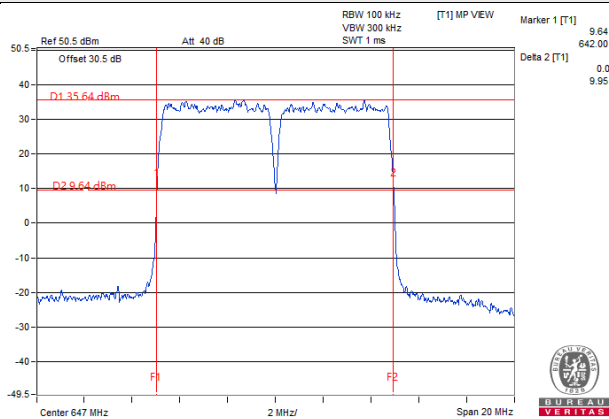
Channel: 123900+124900



Channel: 126400+127400

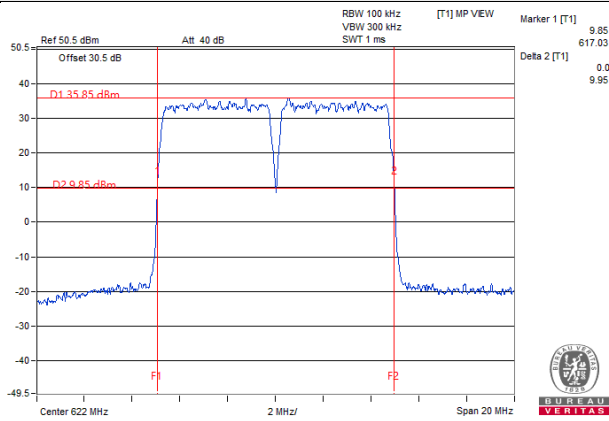


Channel: 128900+129900

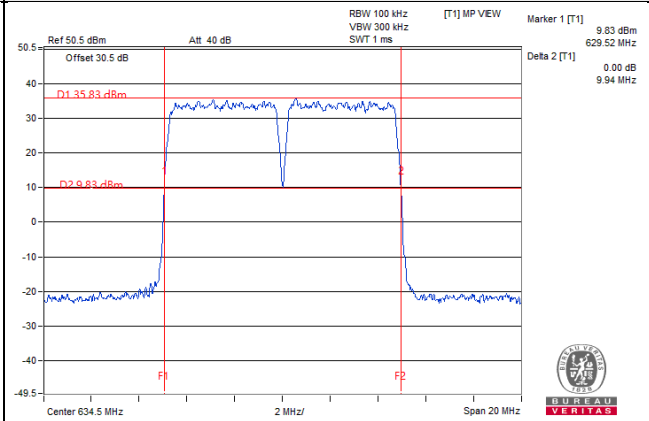


256QAM

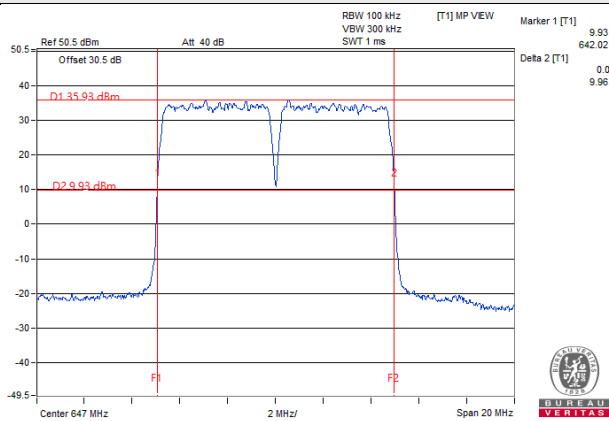
Channel: 123900+124900



Channel: 126400+127400



Channel: 128900+129900



15MHz+20MHz

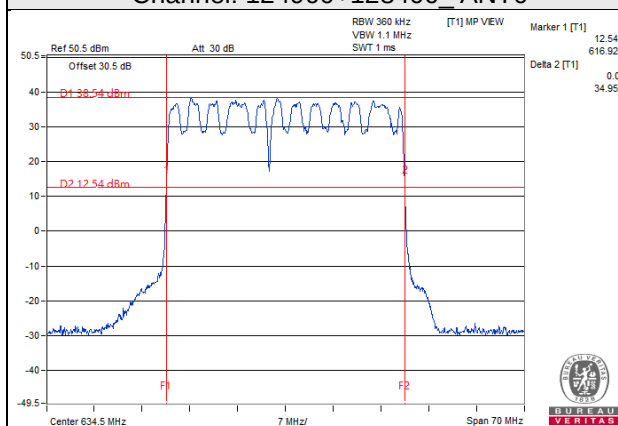
Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)															
		ANT0				ANT1				ANT2				ANT3			
		QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
124900	624.5																
+	+	34.95	34.88	34.90	34.90	34.99	34.89	34.92	34.92	34.99	34.86	34.94	34.86	34.94	34.90	34.89	34.92
128400	642																

Spectrum Plot of Worst Value

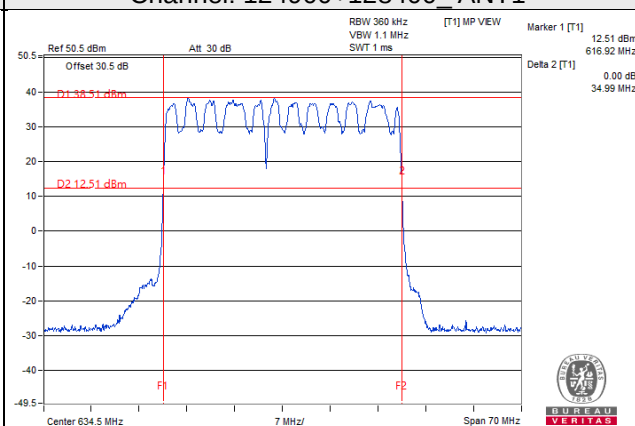
-26dBc Bandwidth

QPSK

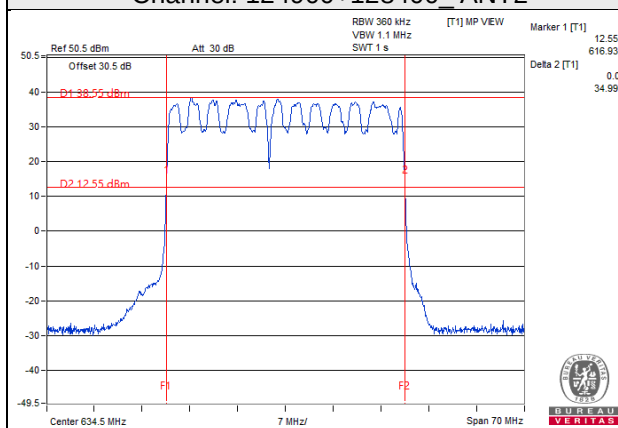
Channel: 124900+128400 ANT0



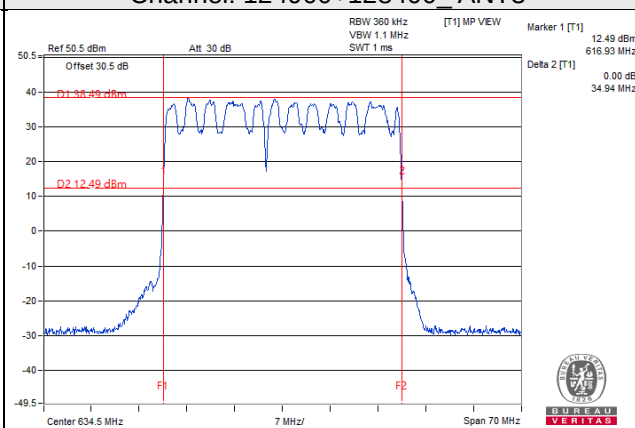
Channel: 124900+128400 ANT1



Channel: 124900+128400 ANT2

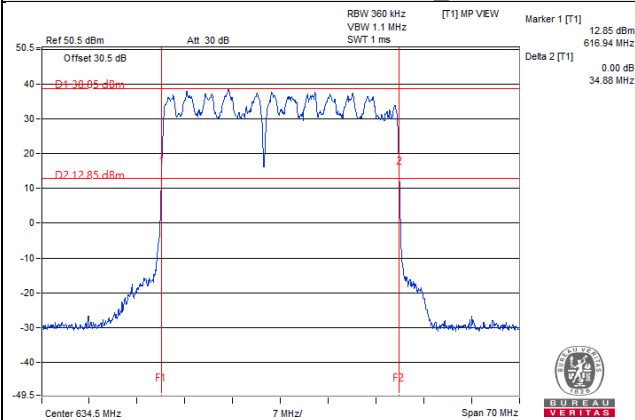


Channel: 124900+128400 ANT3

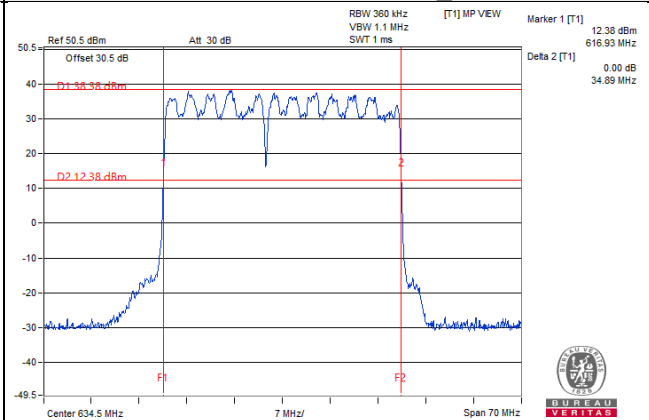


16QAM

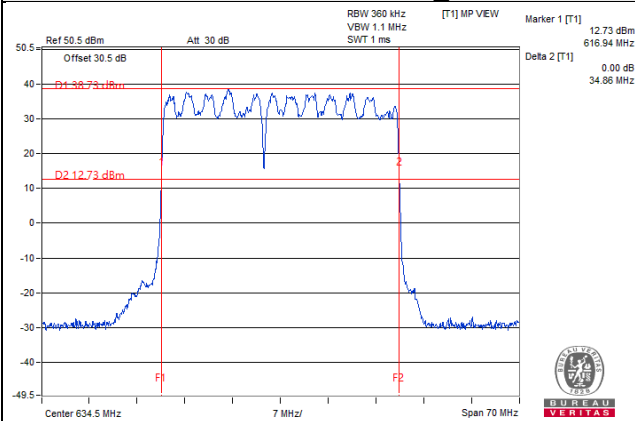
Channel: 124900+128400_ANT0



Channel: 124900+128400_ANT1



Channel: 124900+128400_ANT2



Channel: 124900+128400_ANT3

