11ax (20MHz) 1S4T CDD

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
52	5260	19.08	19.20	19.20	19.20
60	5300	19.08	19.20	19.20	19.20
64	5320	19.08	19.20	19.20	19.20
100	5500	19.08	19.20	19.20	19.32
116	5580	19.08	19.20	19.08	19.20
140	5700	19.08	19.20	19.20	19.20
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.48	4.60	4.48	4.60

11ax (20MHz) 1S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
52	5260	19.08	19.20	19.20	19.20
60	5300	19.08	19.08	19.20	19.20
64	5320	19.08	19.20	19.08	19.20
100	5500	19.08	19.20	19.08	19.20
116	5580	19.08	19.20	19.20	19.20
140	5700	19.08	19.20	19.20	19.20
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.48	4.60	4.60	4.60

11ax (20MHz) 2S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
52	5260	19.08	19.08	19.08	19.08
60	5300	19.08	19.20	19.08	19.08
64	5320	19.08	19.20	19.08	19.08
100	5500	19.08	19.20	19.08	19.20
116	5580	19.08	19.20	19.08	19.08
140	5700	19.20	19.20	19.08	19.08
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.48	4.60	4.48	4.48

11ax (20MHz) 3S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
52	5260	19.08	19.08	19.20	19.32
60	5300	19.08	19.08	19.20	19.32
64	5320	19.08	19.08	19.08	19.32
100	5500	19.08	19.08	19.20	19.32
116	5580	19.20	19.08	19.20	19.32
140	5700	19.08	19.08	19.20	19.32
144 (U-NII-2C Band)	5720	14.60	14.60	14.72	14.72
144 (U-NII-3 Band)	5720	4.48	4.48	4.48	4.60

11ax (40MHz) 1S4T CDD

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
54	5270	37.92	37.68	37.68	37.92
62	5310	37.92	37.68	37.92	37.68
102	5510	37.68	37.68	37.92	37.68
110	5550	37.68	37.92	37.92	37.68
134	5670	37.68	37.68	37.68	37.68
142 (U-NII-2C Band)	5710	33.96	33.96	33.96	33.96
142 (U-NII-3 Band)	5710	3.72	3.72	3.72	3.72

11ax (40MHz) 1S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
54	5270	37.68	37.92	38.16	37.92
62	5310	37.68	37.68	37.68	37.92
102	5510	37.68	37.92	37.92	37.68
110	5550	37.68	37.68	37.92	37.68
134	5670	37.68	37.68	37.68	37.68
142 (U-NII-2C Band)	5710	33.96	33.96	33.96	33.96
142 (U-NII-3 Band)	5710	3.72	3.72	3.72	3.72

11ax (40MHz) 2S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
54	5270	37.92	37.68	37.92	37.68
62	5310	37.92	37.68	37.92	37.68
102	5510	37.92	37.68	37.92	37.68
110	5550	37.68	37.68	37.68	37.68
134	5670	37.68	37.68	37.68	37.68
142 (U-NII-2C Band)	5710	33.96	33.96	34.20	33.96
142 (U-NII-3 Band)	5710	3.72	3.72	3.72	3.72

11ax (40MHz) 3S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
54	5270	37.92	37.68	37.92	37.68
62	5310	37.92	37.68	37.92	37.68
102	5510	37.68	37.68	37.92	37.68
110	5550	37.68	37.68	37.92	37.68
134	5670	37.68	37.68	37.92	37.68
142 (U-NII-2C Band)	5710	33.96	33.96	33.96	33.96
142 (U-NII-3 Band)	5710	3.72	3.72	3.96	3.72

11ax (80MHz) 1S4T CDD

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
58	5290	77.28	77.28	77.28	76.80
106	5530	77.76	77.28	77.28	77.28
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.40	73.40	73.88	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

11ax (80MHz) 1S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
58	5290	77.28	77.28	77.28	77.28
106	5530	77.28	77.28	77.28	77.28
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

11ax (80MHz) 2S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
58	5290	77.28	76.80	77.28	76.80
106	5530	77.28	77.28	76.80	76.80
122	5610	77.28	76.80	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.40	73.40	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

11ax (80MHz) 3S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
58	5290	77.28	77.28	76.80	76.80
106	5530	77.28	76.80	76.80	77.28
122	5610	76.80	77.28	76.80	77.28
138 (U-NII-2C Band)	5690	73.40	73.40	73.40	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

11ax (160MHz) 1S4T CDD

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
50	5250	78.72	77.91	77.91	78.61
50 (U-NII-2A Band)	5250	77.76	77.22	77.22	77.91
114	5570	154.56	155.82	155.52	155.52

11ax (160MHz) 1S4T TxBF

CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
50	5250	78.72	78.61	78.61	77.91
50 (U-NII-2A Band)	5250	77.76	77.22	77.22	77.91
114	5570	155.52	155.52	155.52	155.52

11ax (160MHz) 2S4T TxBF

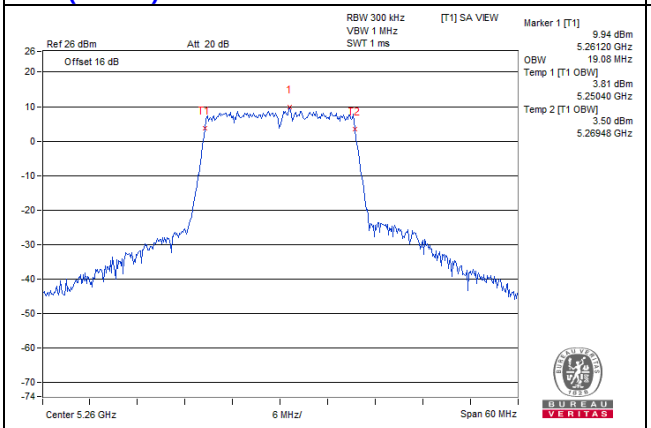
CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
50	5250	77.91	77.91	77.91	77.91
50 (U-NII-2A Band)	5250	77.91	77.91	77.91	78.61
114	5570	156.48	155.52	156.48	154.56

11ax (160MHz) 3S4T TxBF

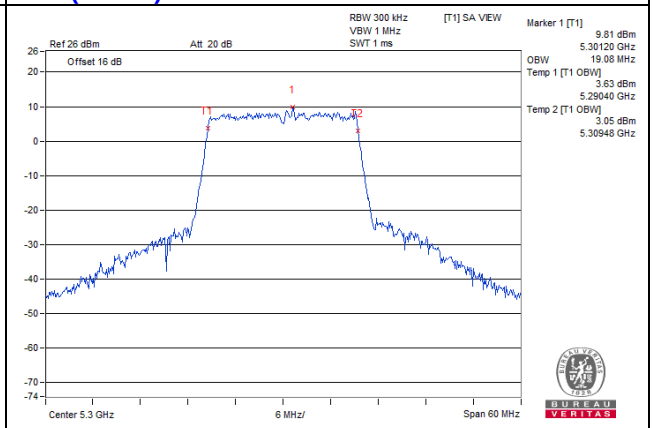
CHANNEL	FREQUENCY (MHz)	99% Occupied Bandwidth (MHz)			
		ANT 1	ANT 2	ANT 3	ANT 4
50	5250	77.76	77.91	77.91	78.61
50 (U-NII-2A Band)	5250	77.76	77.22	77.22	77.91
114	5570	154.56	154.56	155.52	155.52

99% OCCUPIED BANDWIDTH SPECTRUM PLOT

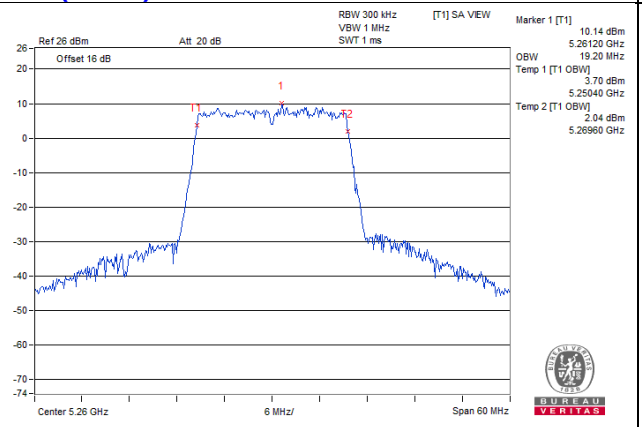
11ax (20MHz) 1S4T CDD CH52 Ant1



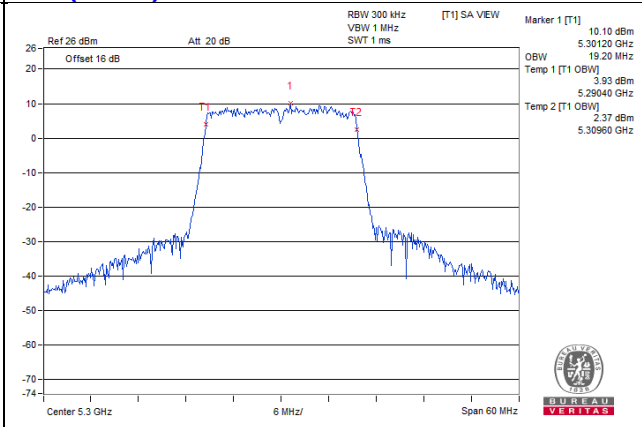
11ax (20MHz) 1S4T CDD CH60 Ant1



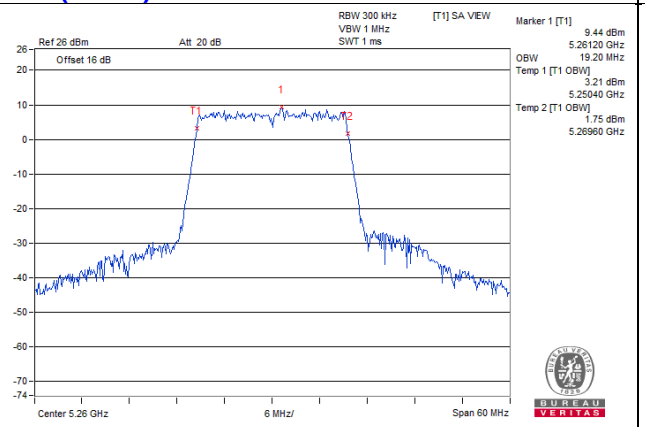
11ax (20MHz) 1S4T CDD CH52 Ant2



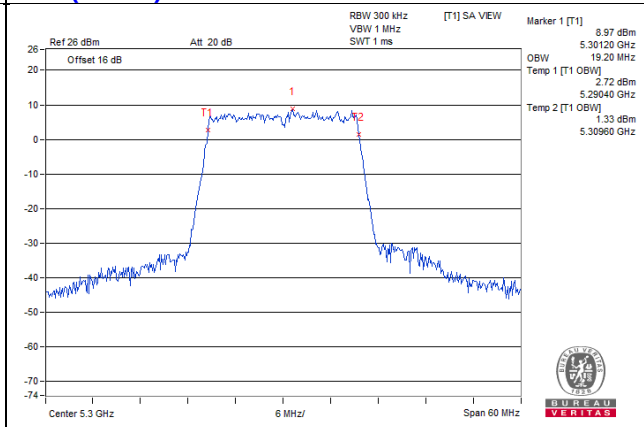
11ax (20MHz) 1S4T CDD CH60 Ant2



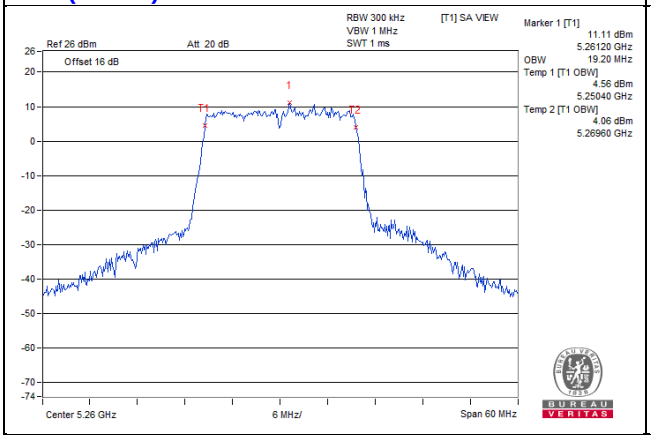
11ax (20MHz) 1S4T CDD CH52 Ant3



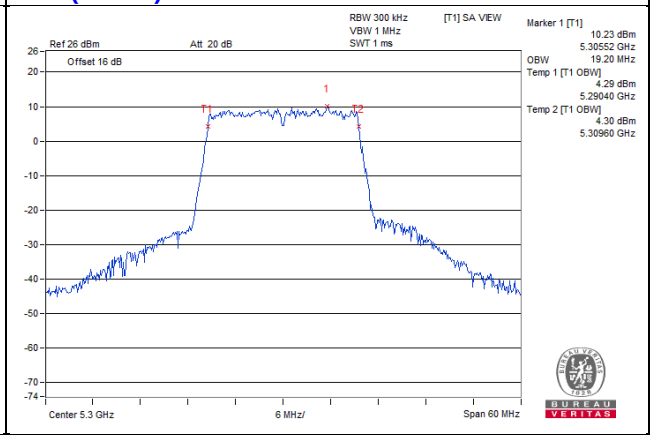
11ax (20MHz) 1S4T CDD CH60 Ant3



11ax (20MHz) 1S4T CDD CH52 Ant4

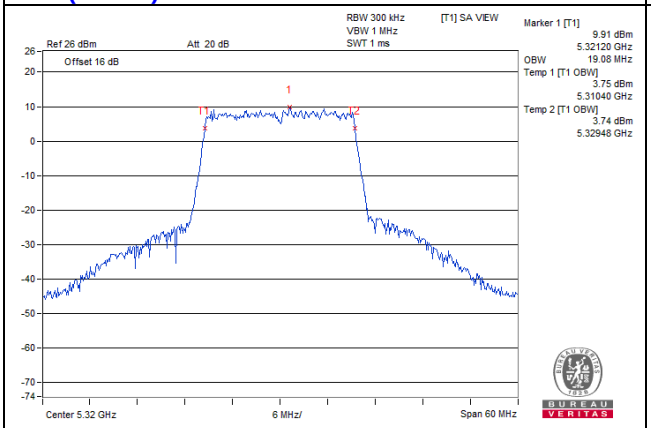


11ax (20MHz) 1S4T CDD CH60 Ant4

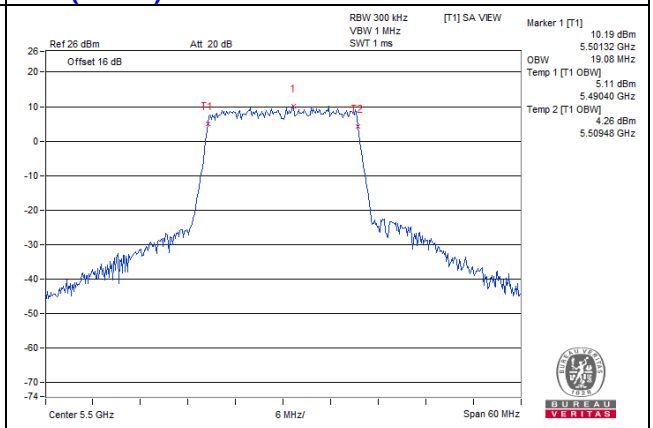


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

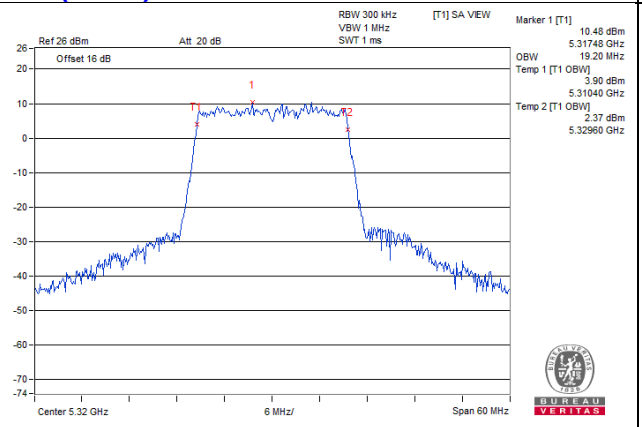
11ax (20MHz) 1S4T CDD CH64 Ant1



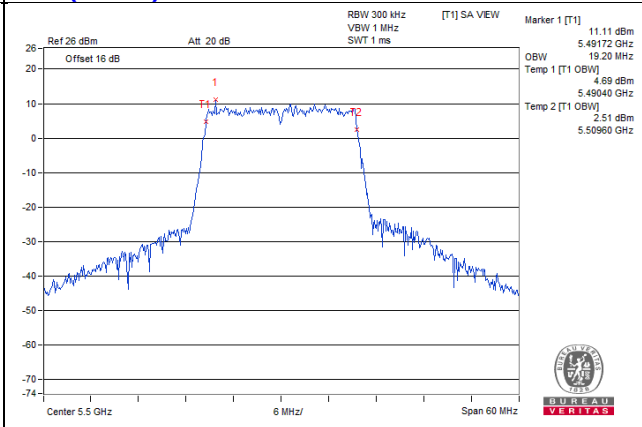
11ax (20MHz) 1S4T CDD CH100 Ant1



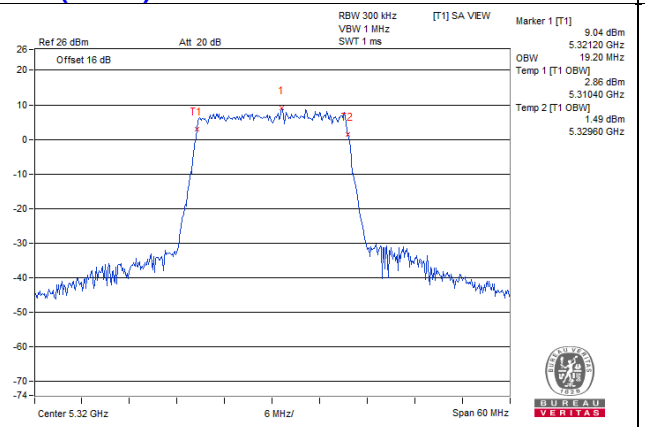
11ax (20MHz) 1S4T CDD CH64 Ant2



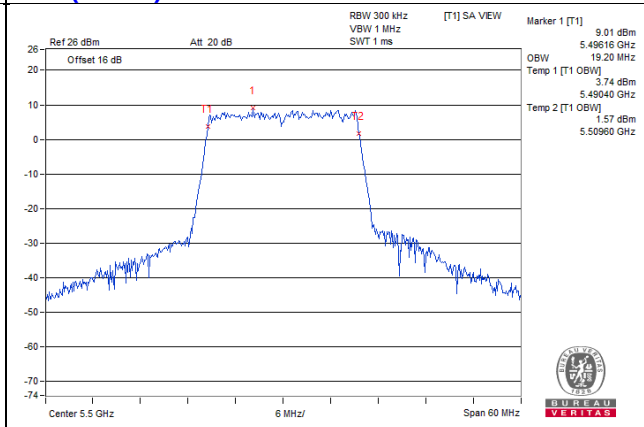
11ax (20MHz) 1S4T CDD CH100 Ant2



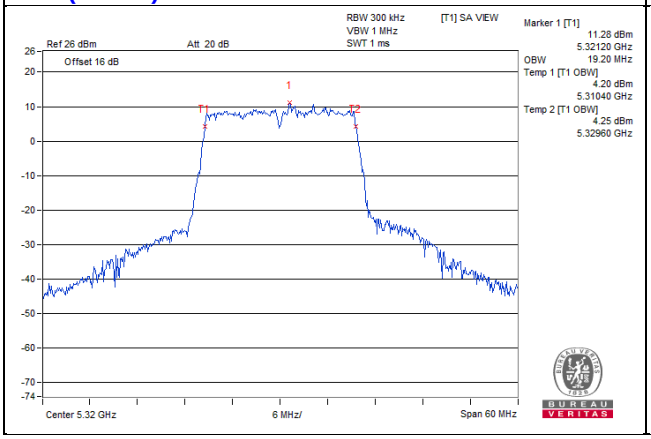
11ax (20MHz) 1S4T CDD CH64 Ant3



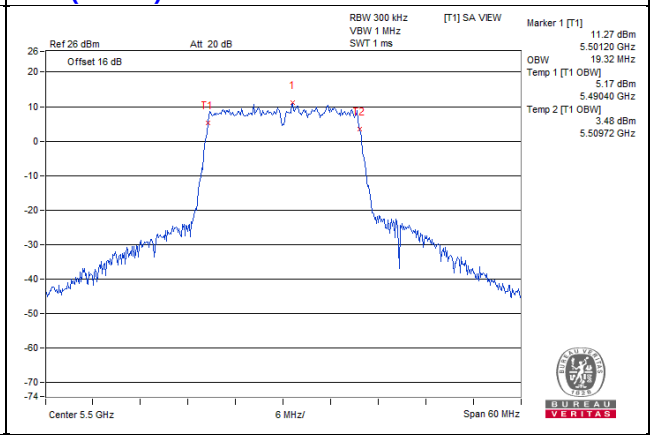
11ax (20MHz) 1S4T CDD CH100 Ant3



11ax (20MHz) 1S4T CDD CH64 Ant4

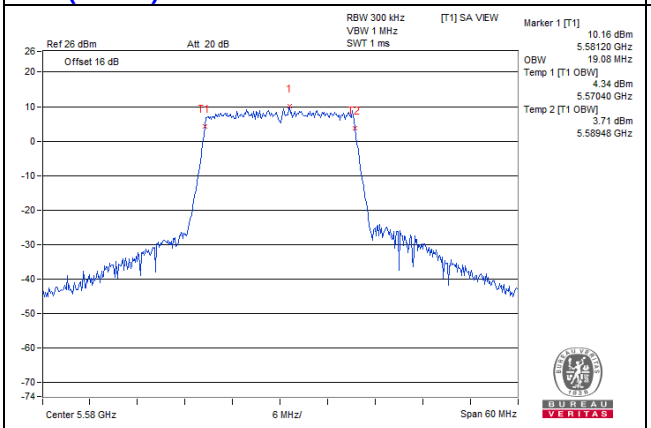


11ax (20MHz) 1S4T CDD CH100 Ant4

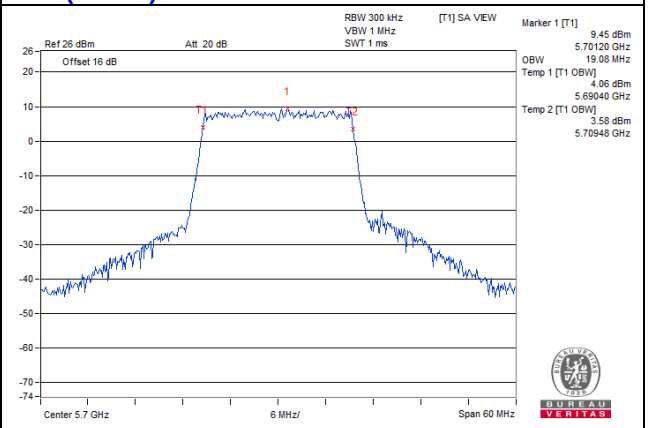


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

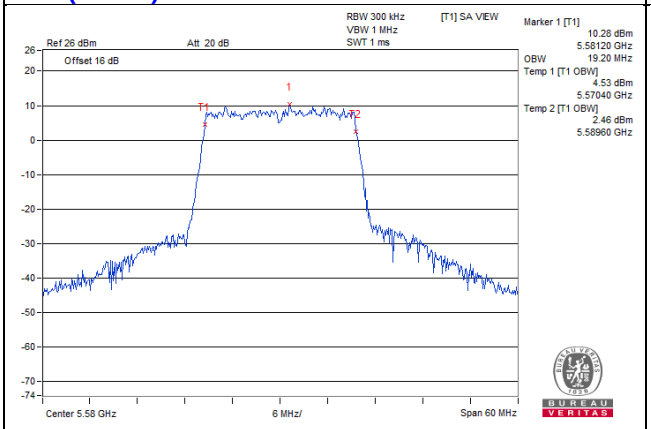
11ax (20MHz) 1S4T CDD CH116 Ant1



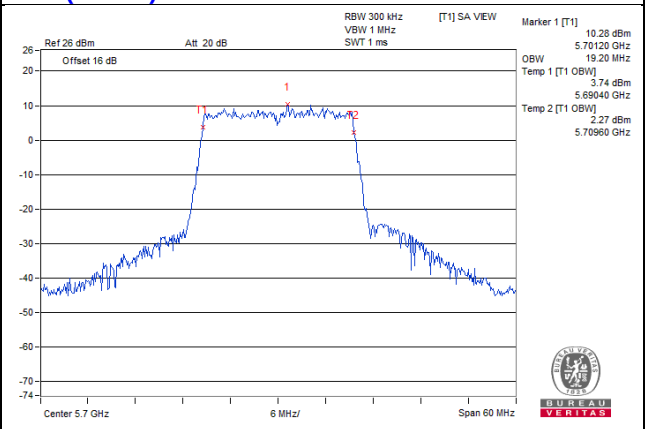
11ax (20MHz) 1S4T CDD CH140 Ant1



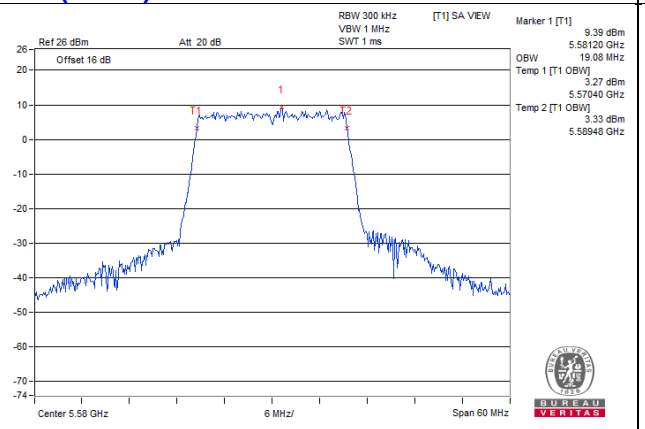
11ax (20MHz) 1S4T CDD CH116 Ant2



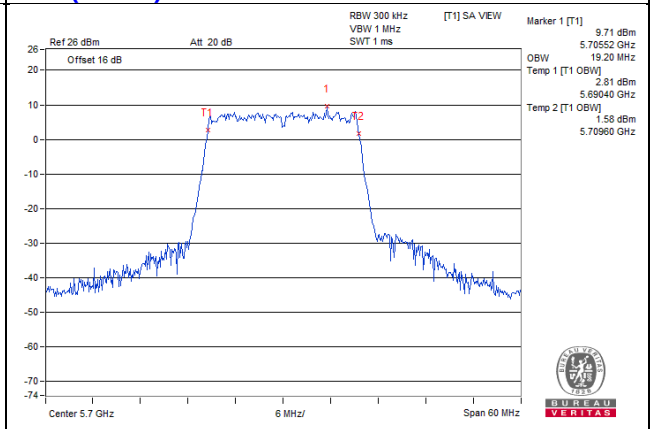
11ax (20MHz) 1S4T CDD CH140 Ant2



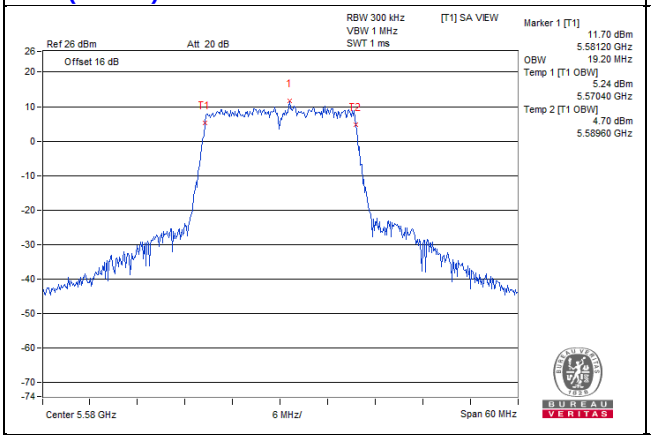
11ax (20MHz) 1S4T CDD CH116 Ant3



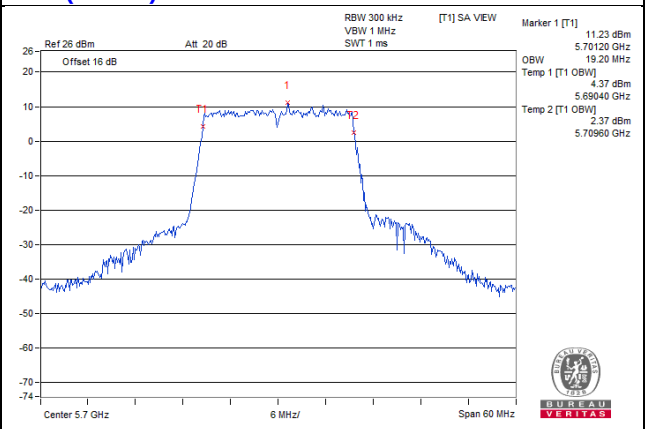
11ax (20MHz) 1S4T CDD CH140 Ant3



11ax (20MHz) 1S4T CDD CH116 Ant4

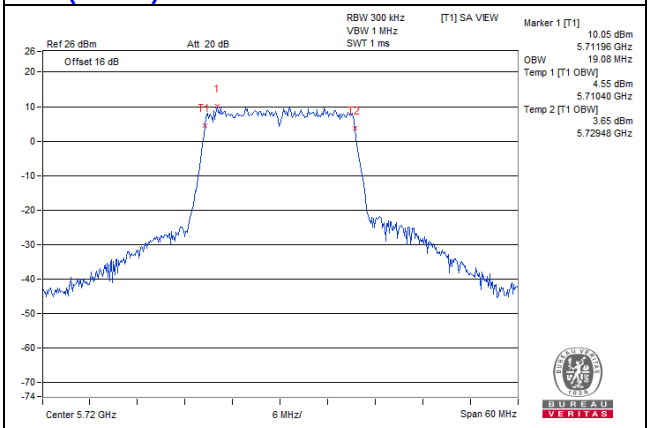


11ax (20MHz) 1S4T CDD CH140 Ant4

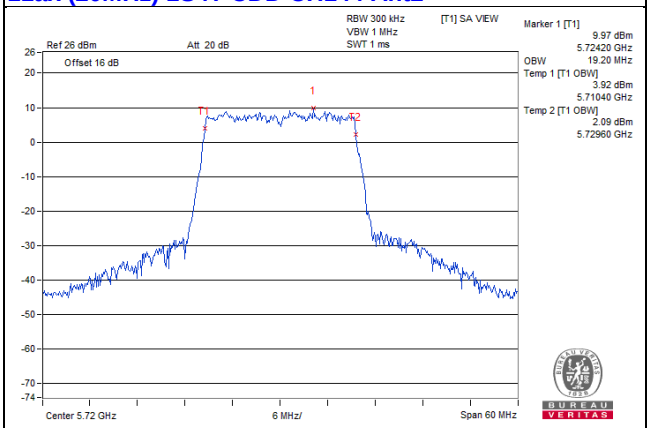


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

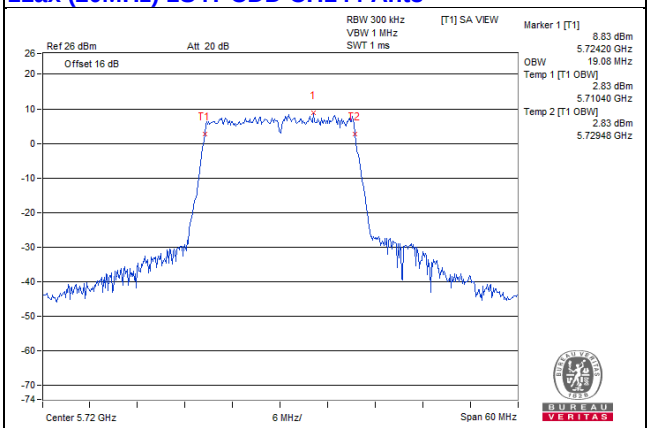
11ax (20MHz) 1S4T CDD CH144 Ant1



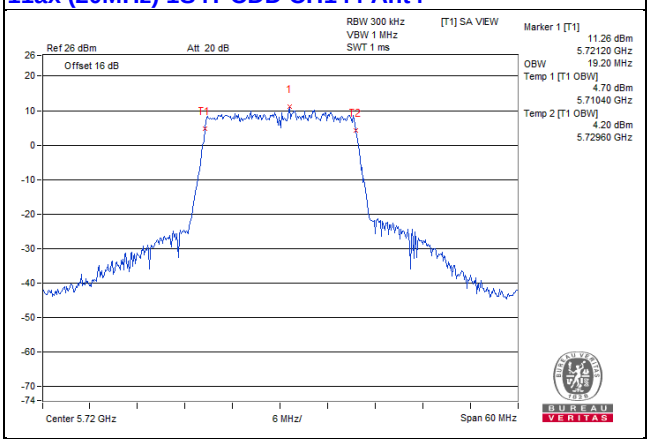
11ax (20MHz) 1S4T CDD CH144 Ant2



11ax (20MHz) 1S4T CDD CH144 Ant3

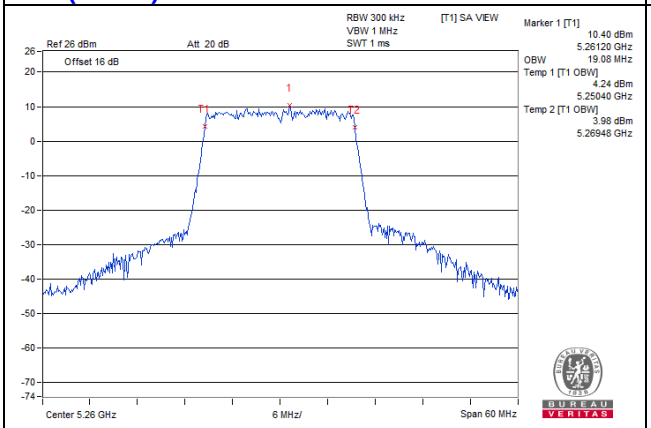


11ax (20MHz) 1S4T CDD CH144 Ant4

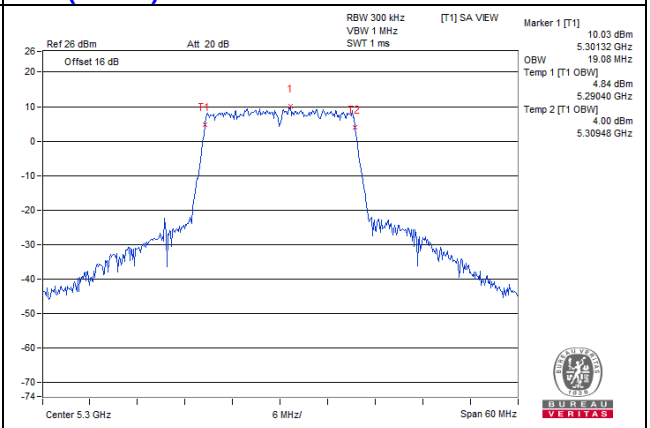


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

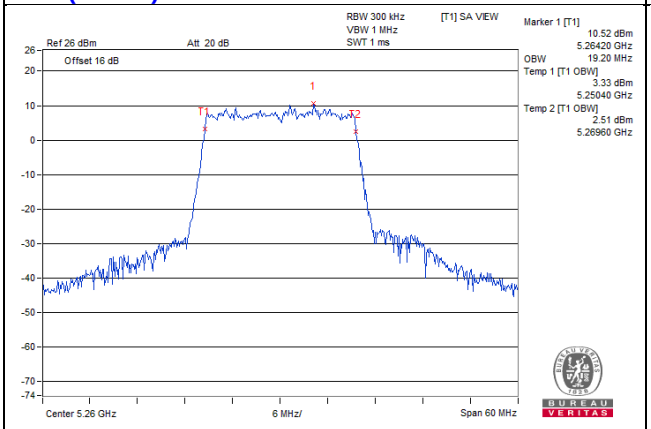
11ax (20MHz) 1S4T TxBF CH52 Ant1



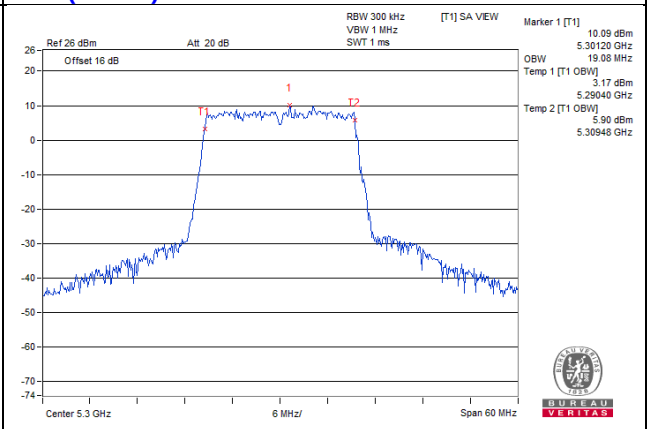
11ax (20MHz) 1S4T TxBF CH60 Ant1



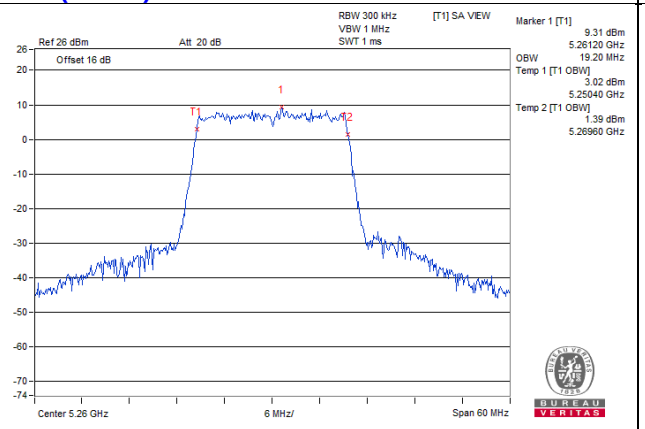
11ax (20MHz) 1S4T TxBF CH52 Ant2



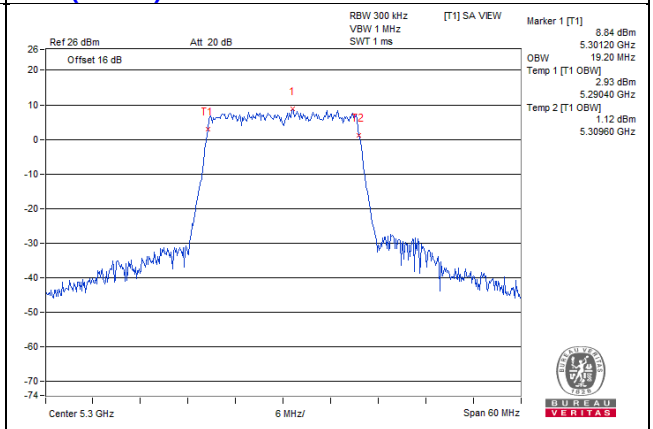
11ax (20MHz) 1S4T TxBF CH60 Ant2



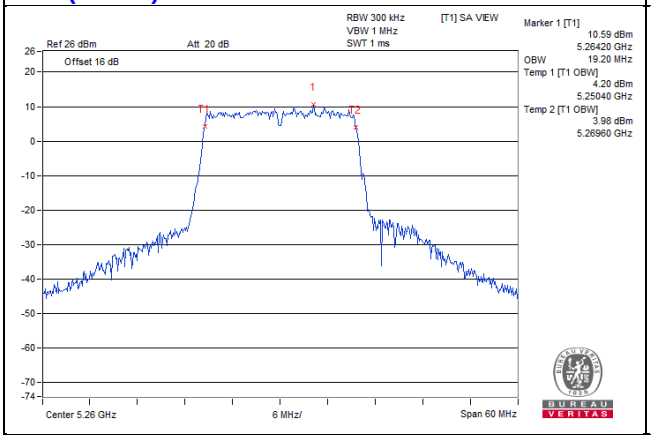
11ax (20MHz) 1S4T TxBF CH52 Ant3



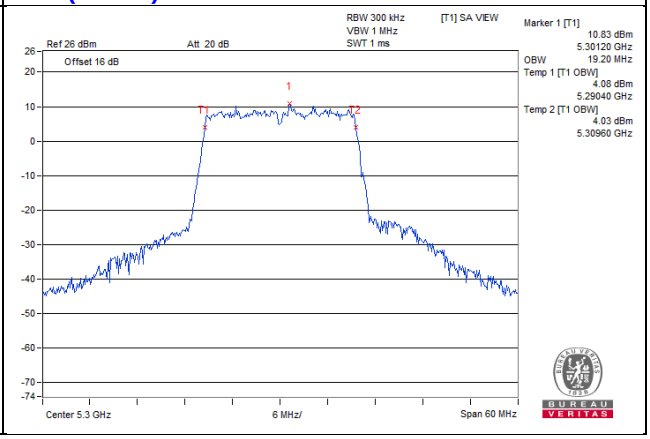
11ax (20MHz) 1S4T TxBF CH60 Ant3



11ax (20MHz) 1S4T TxBF CH52 Ant4

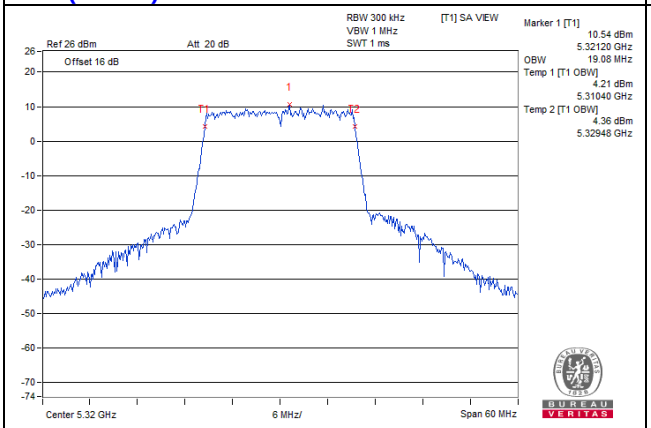


11ax (20MHz) 1S4T TxBF CH60 Ant4

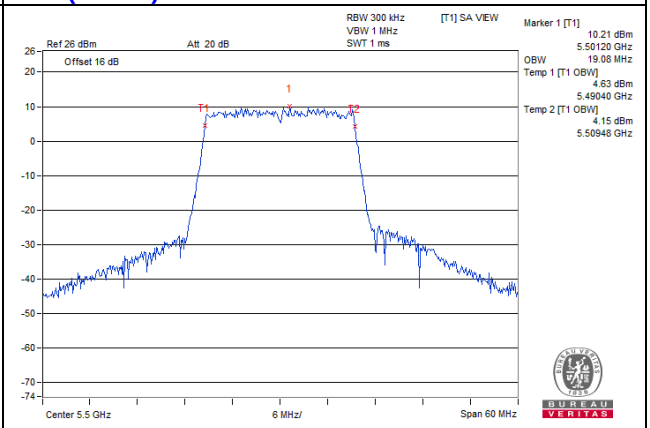


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

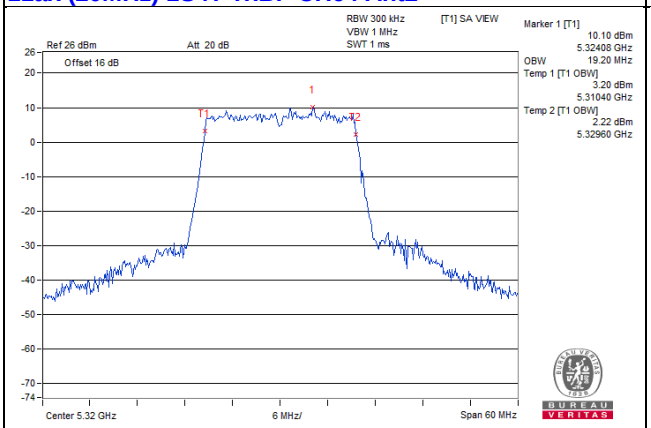
11ax (20MHz) 1S4T TxBF CH64 Ant1



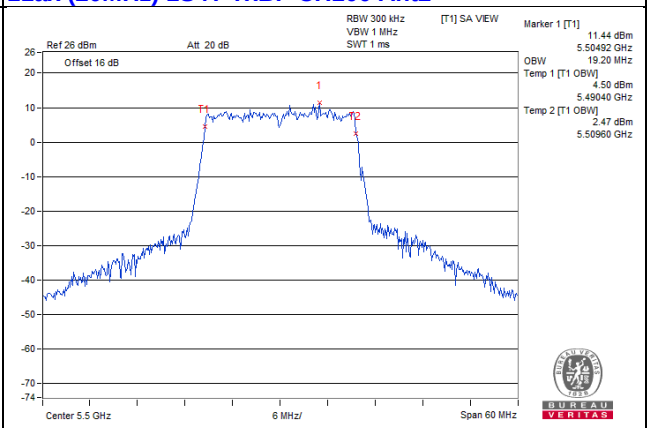
11ax (20MHz) 1S4T TxBF CH100 Ant1



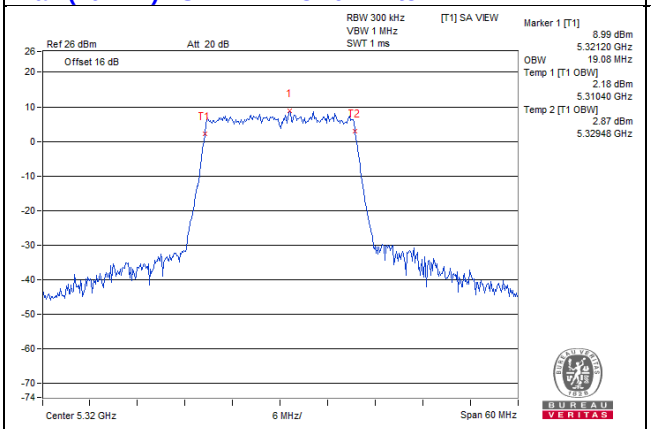
11ax (20MHz) 1S4T TxBF CH64 Ant2



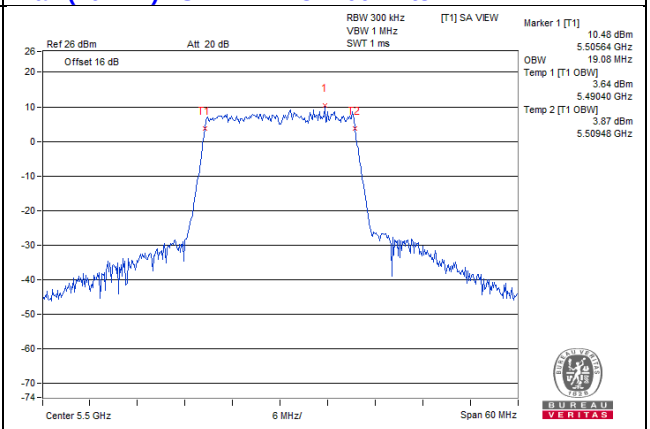
11ax (20MHz) 1S4T TxBF CH100 Ant2



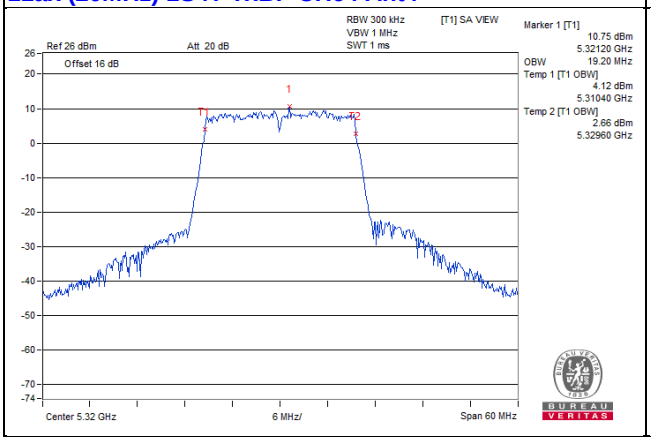
11ax (20MHz) 1S4T TxBF CH64 Ant3



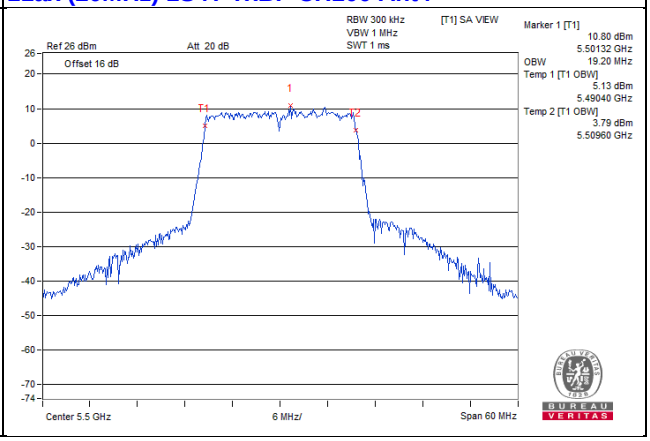
11ax (20MHz) 1S4T TxBF CH100 Ant3



11ax (20MHz) 1S4T TxBF CH64 Ant4

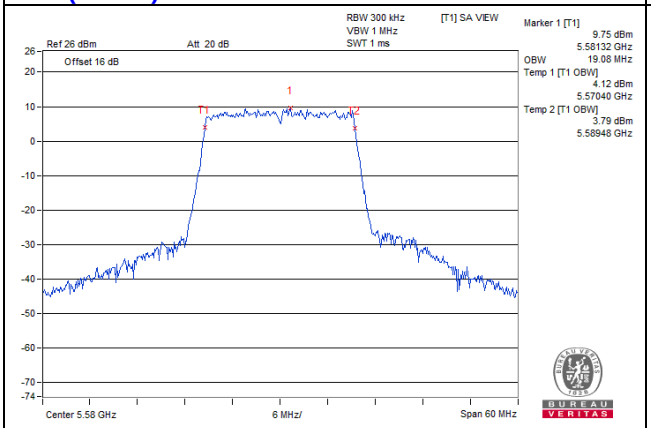


11ax (20MHz) 1S4T TxBF CH100 Ant4

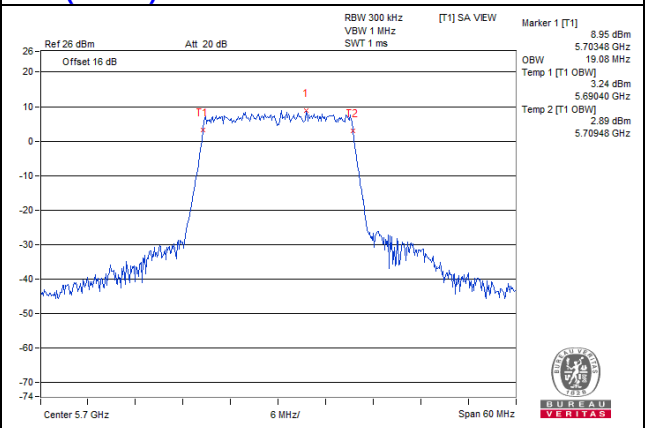


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

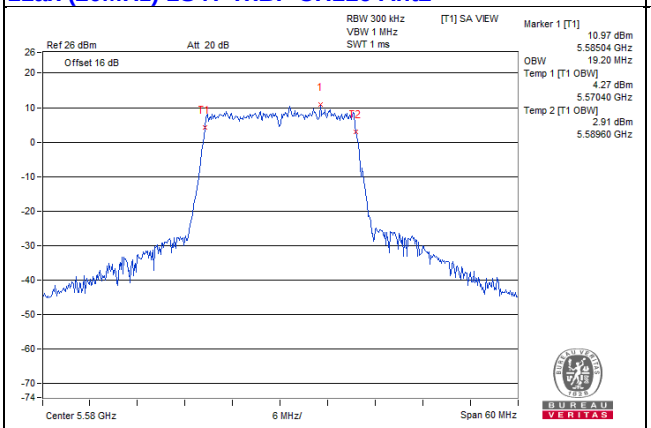
11ax (20MHz) 1S4T TxBF CH116 Ant1



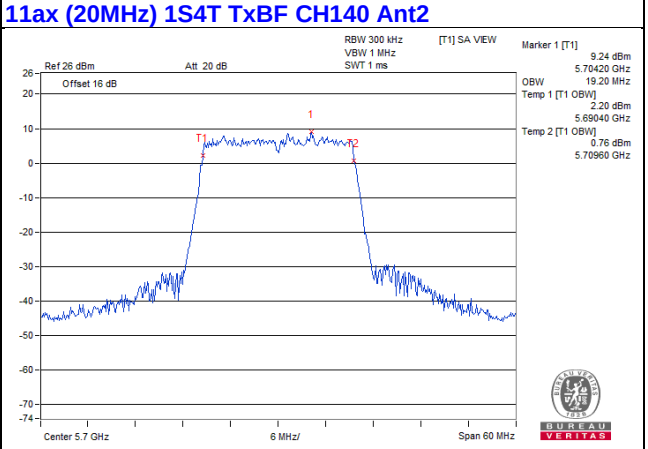
11ax (20MHz) 1S4T TxBF CH140 Ant1



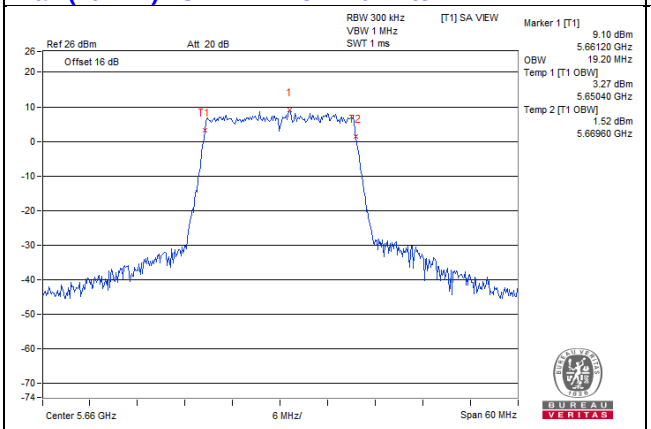
11ax (20MHz) 1S4T TxBF CH116 Ant2



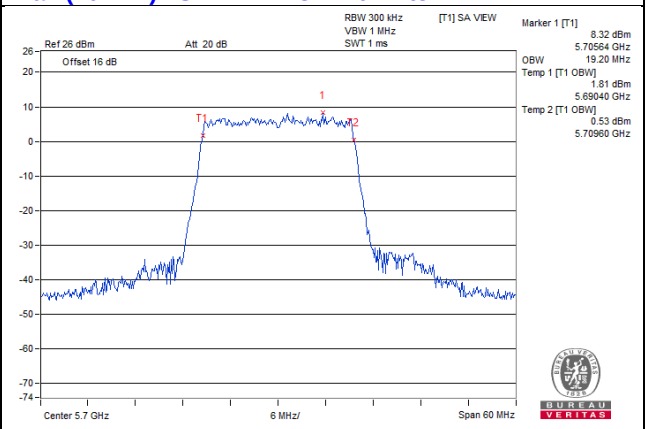
11ax (20MHz) 1S4T TxBF CH140 Ant2



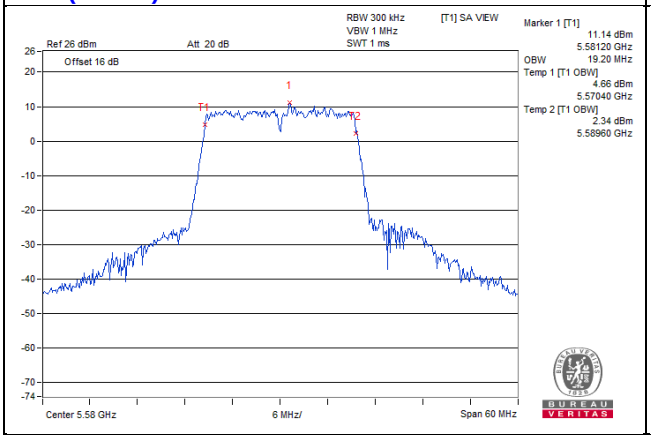
11ax (20MHz) 1S4T TxBF CH116 Ant3



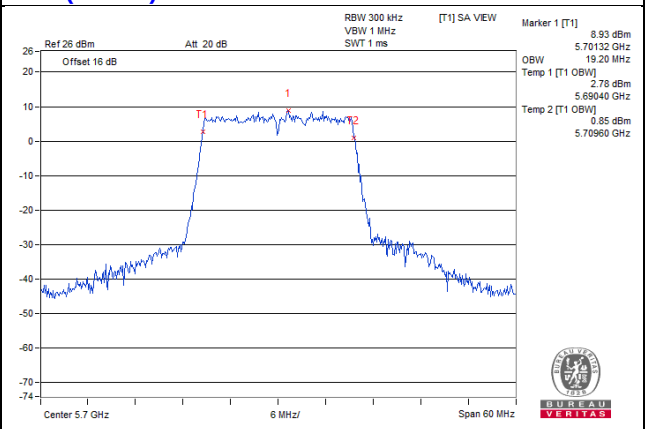
11ax (20MHz) 1S4T TxBF CH140 Ant3



11ax (20MHz) 1S4T TxBF CH116 Ant4

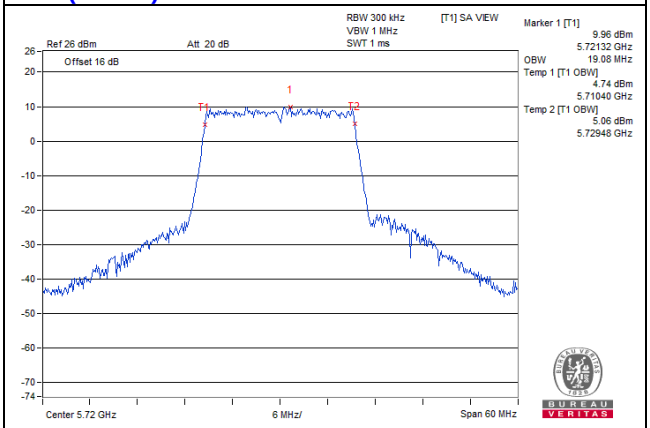


11ax (20MHz) 1S4T TxBF CH140 Ant4

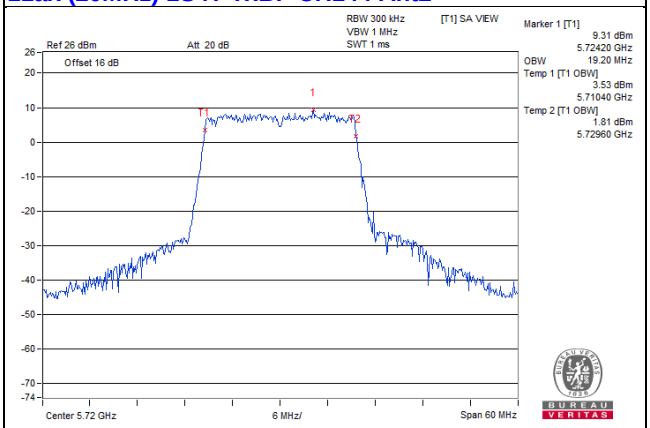


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

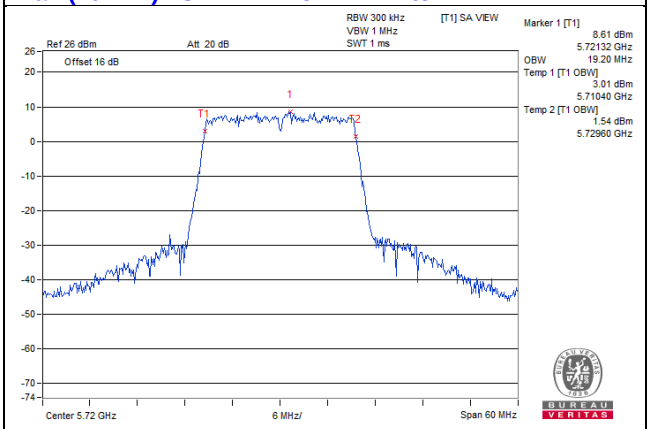
11ax (20MHz) 1S4T TxBF CH144 Ant1



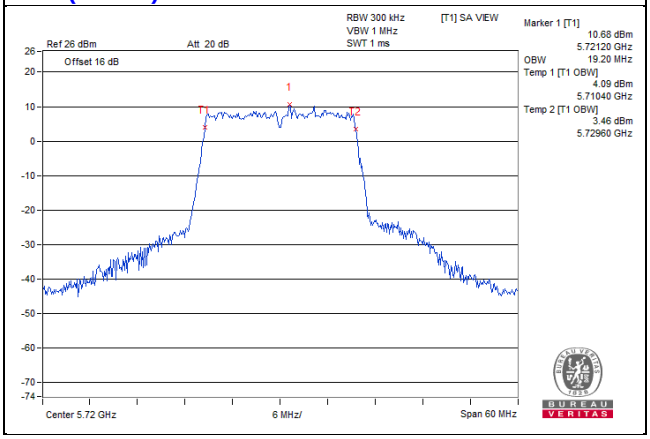
11ax (20MHz) 1S4T TxBF CH144 Ant2



11ax (20MHz) 1S4T TxBF CH144 Ant3

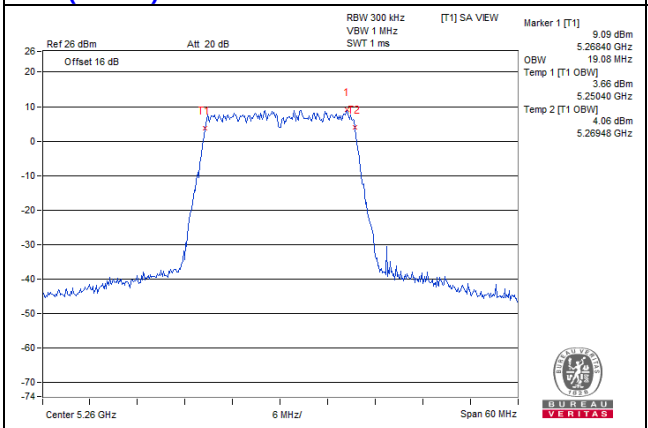


11ax (20MHz) 1S4T TxBF CH144 Ant4

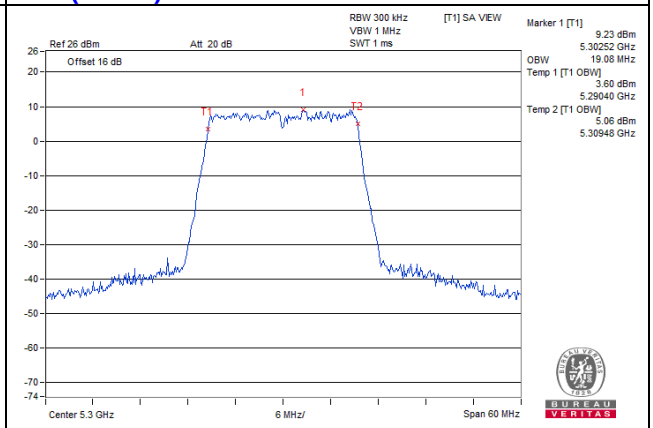


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

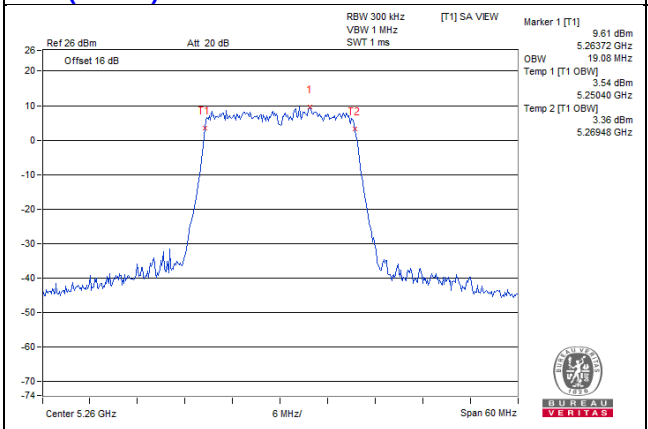
11ax (20MHz) 2S4T TxBF CH52 Ant1



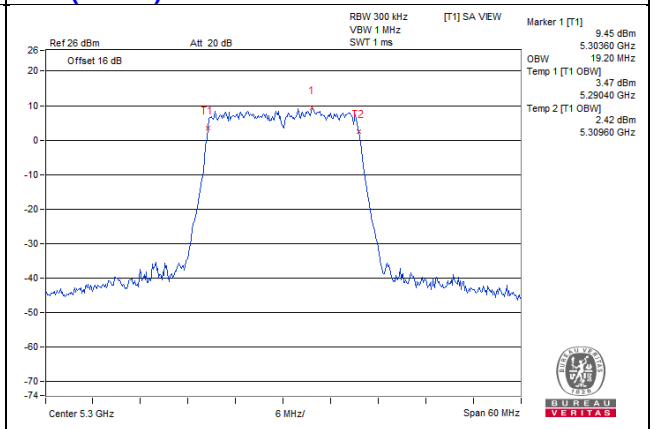
11ax (20MHz) 2S4T TxBF CH60 Ant1



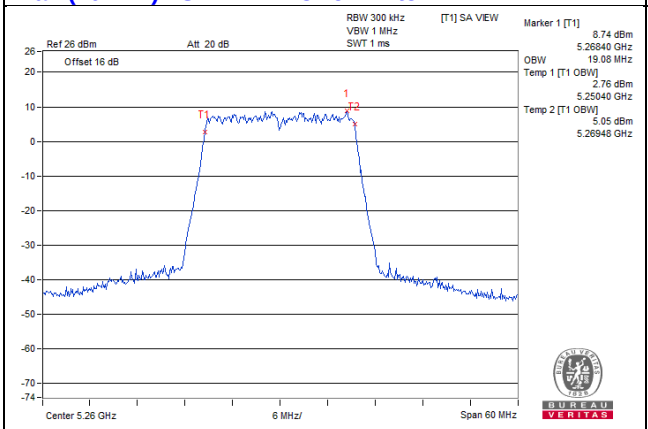
11ax (20MHz) 2S4T TxBF CH52 Ant2



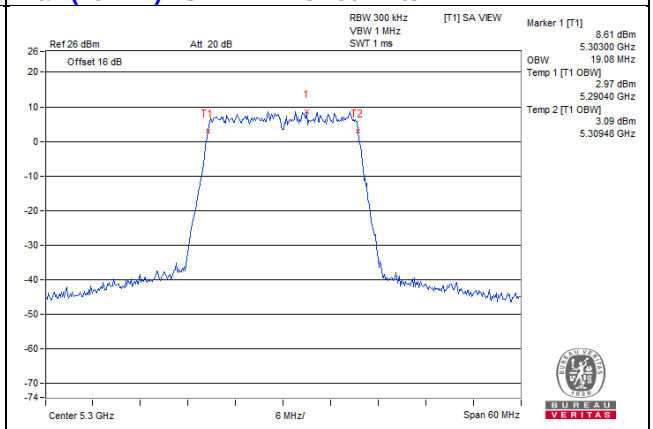
11ax (20MHz) 2S4T TxBF CH60 Ant2



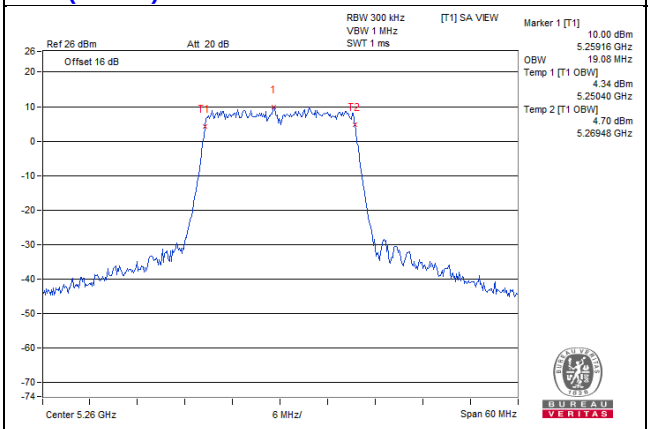
11ax (20MHz) 2S4T TxBF CH52 Ant3



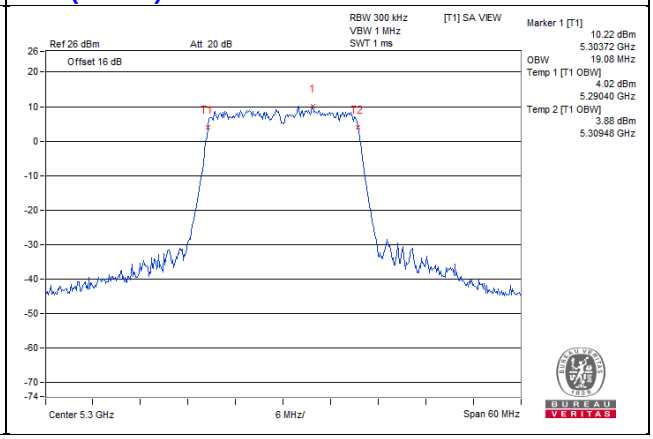
11ax (20MHz) 2S4T TxBF CH60 Ant3



11ax (20MHz) 2S4T TxBF CH52 Ant4

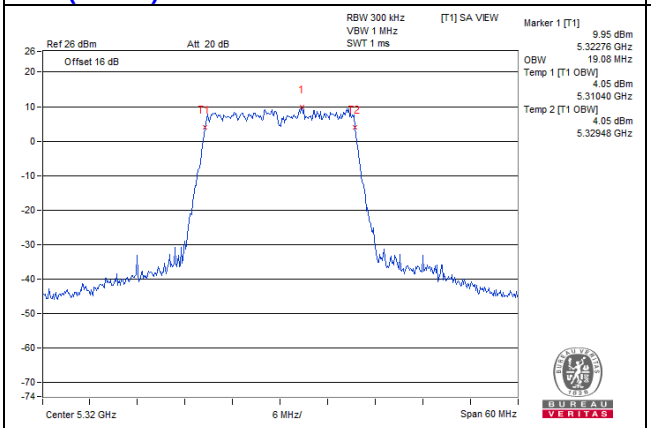


11ax (20MHz) 2S4T TxBF CH60 Ant4

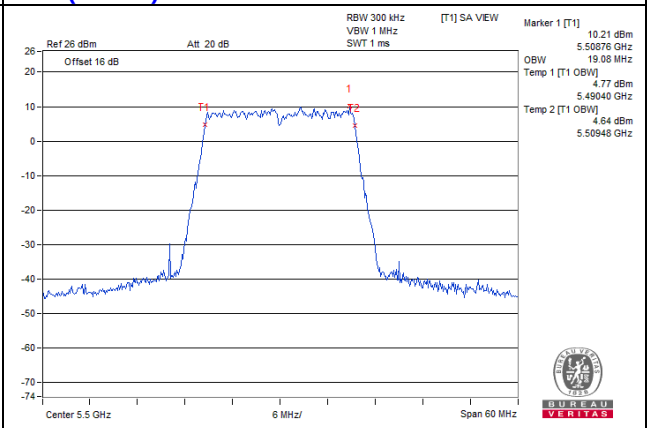


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

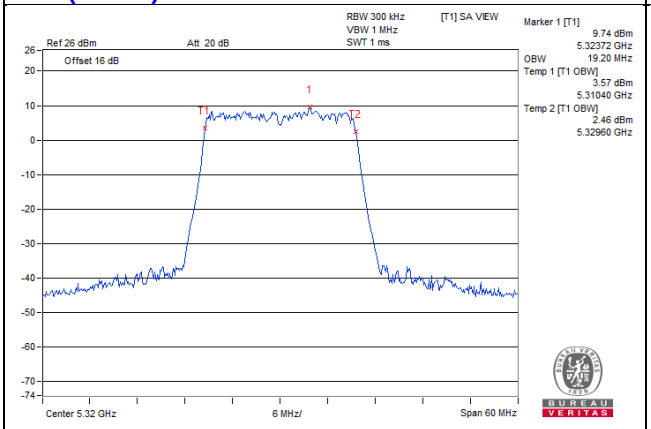
11ax (20MHz) 2S4T TxBF CH64 Ant1



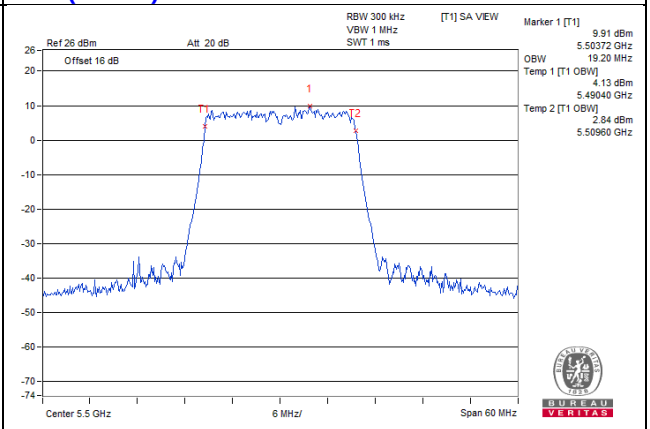
11ax (20MHz) 2S4T TxBF CH100 Ant1



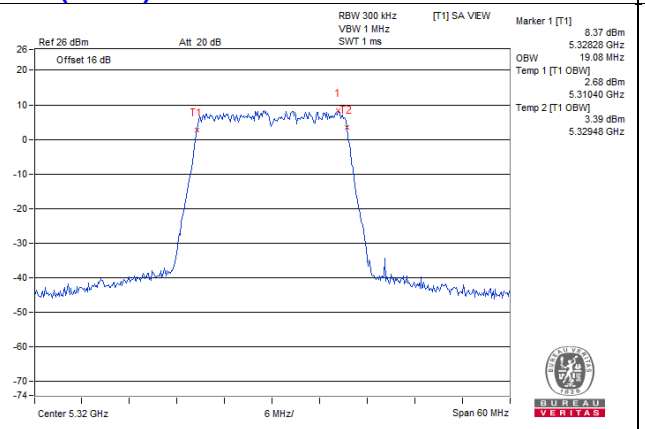
11ax (20MHz) 2S4T TxBF CH64 Ant2



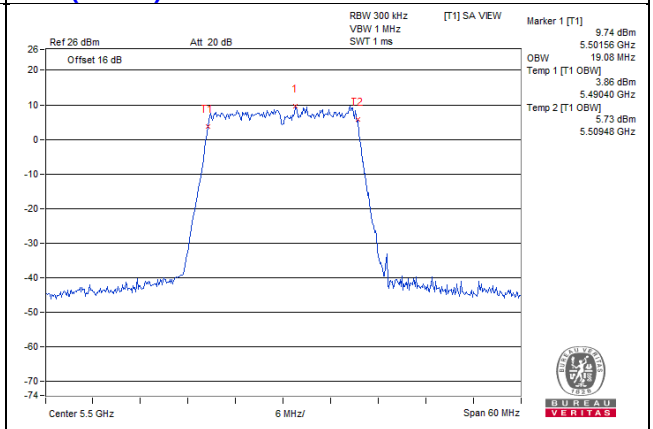
11ax (20MHz) 2S4T TxBF CH100 Ant2



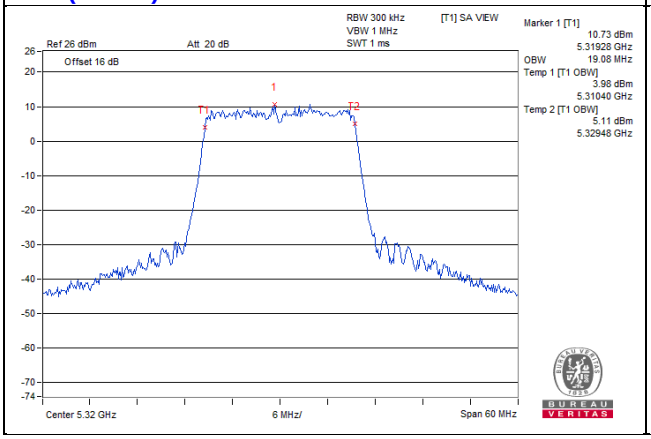
11ax (20MHz) 2S4T TxBF CH64 Ant3



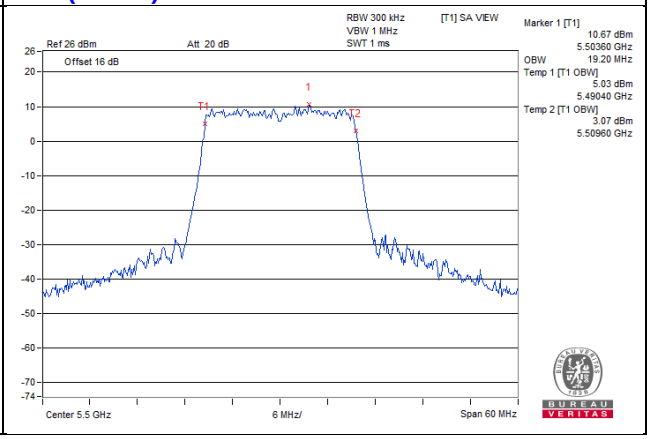
11ax (20MHz) 2S4T TxBF CH100 Ant3



11ax (20MHz) 2S4T TxBF CH64 Ant4

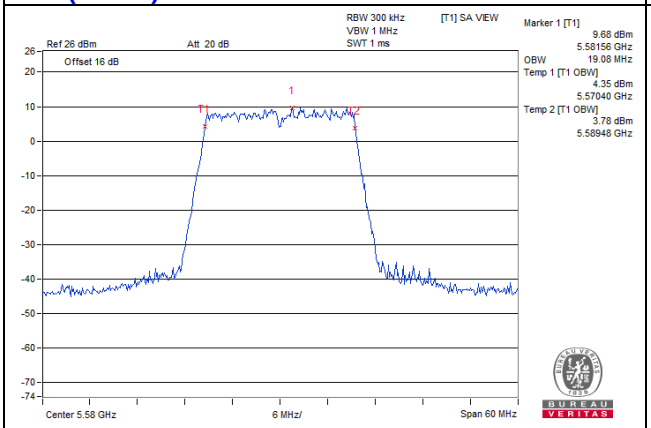


11ax (20MHz) 2S4T TxBF CH100 Ant4

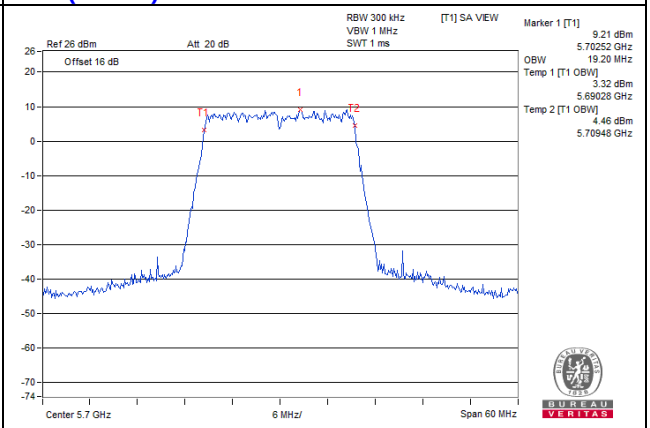


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

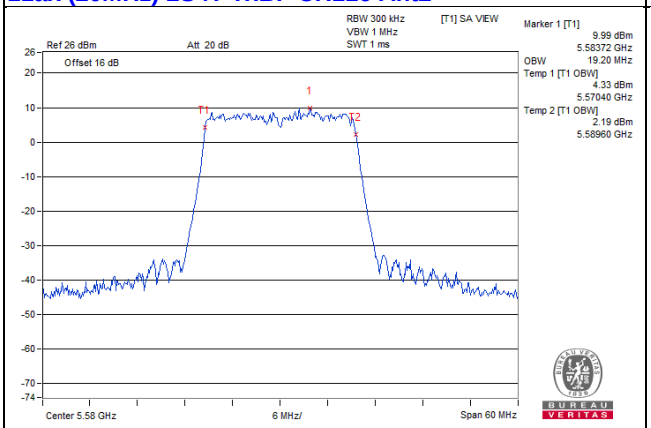
11ax (20MHz) 2S4T TxBF CH116 Ant1



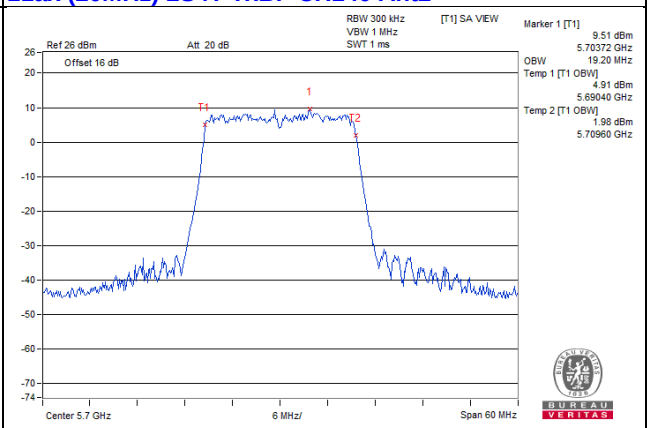
11ax (20MHz) 2S4T TxBF CH140 Ant1



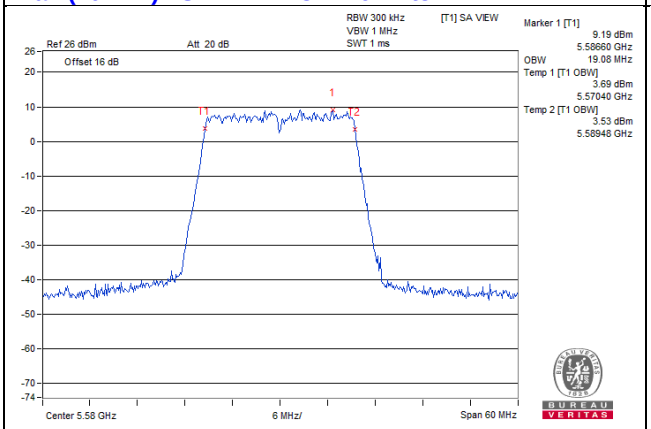
11ax (20MHz) 2S4T TxBF CH116 Ant2



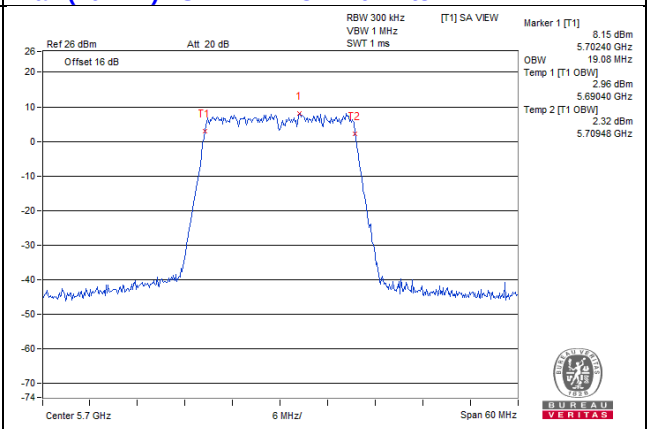
11ax (20MHz) 2S4T TxBF CH140 Ant2



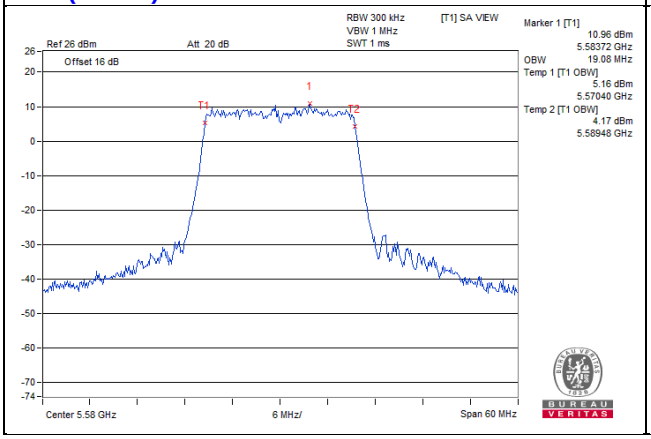
11ax (20MHz) 2S4T TxBF CH116 Ant3



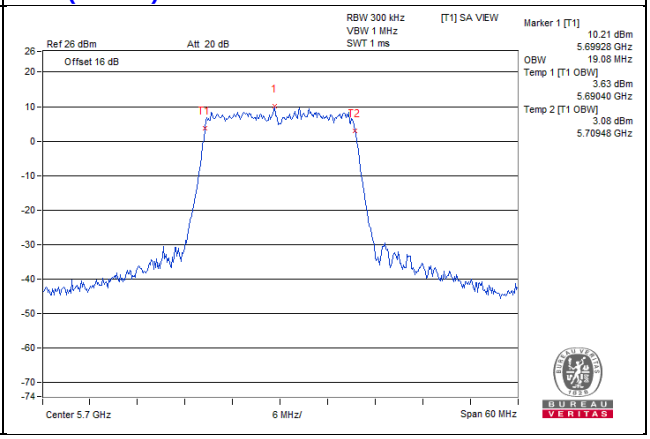
11ax (20MHz) 2S4T TxBF CH140 Ant3



11ax (20MHz) 2S4T TxBF CH116 Ant4

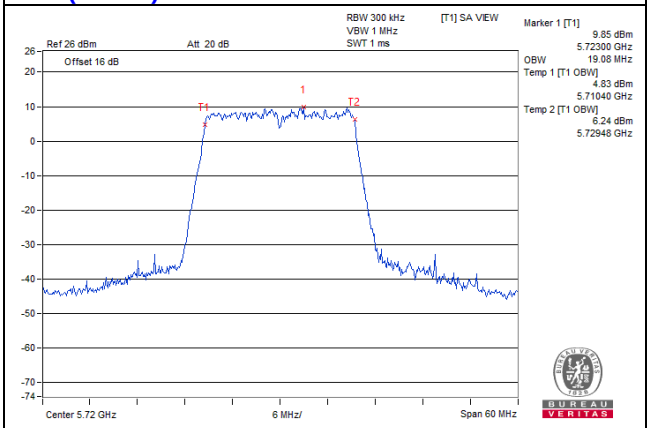


11ax (20MHz) 2S4T TxBF CH140 Ant4

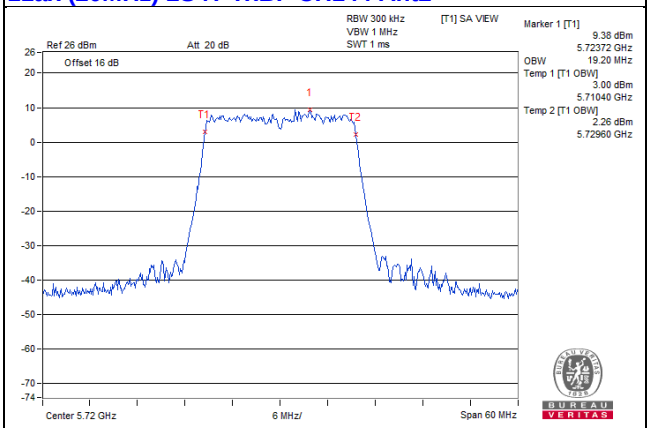


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

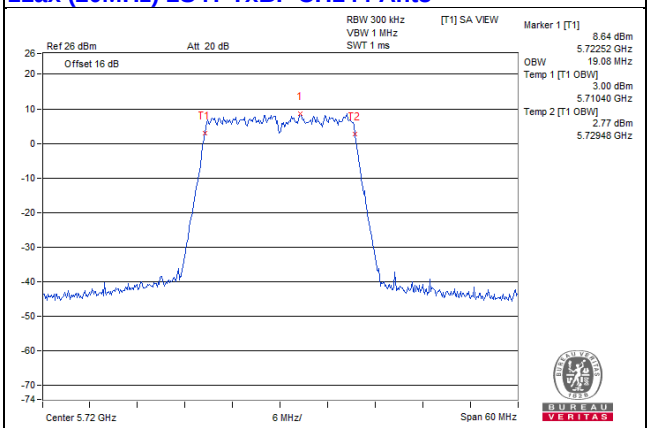
11ax (20MHz) 2S4T TxBF CH144 Ant1



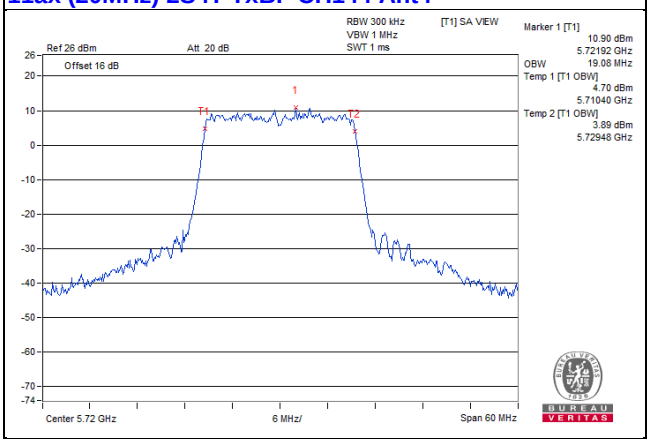
11ax (20MHz) 2S4T TxBF CH144 Ant2



11ax (20MHz) 2S4T TxBF CH144 Ant3

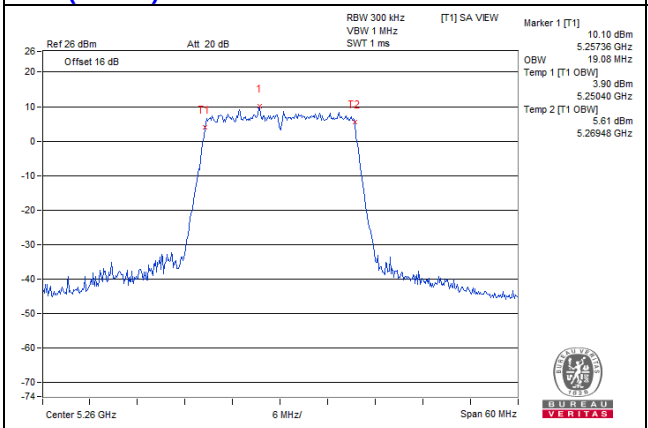


11ax (20MHz) 2S4T TxBF CH144 Ant4

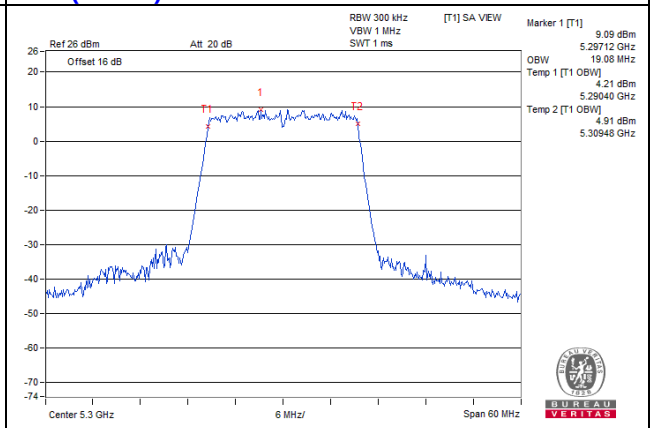


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

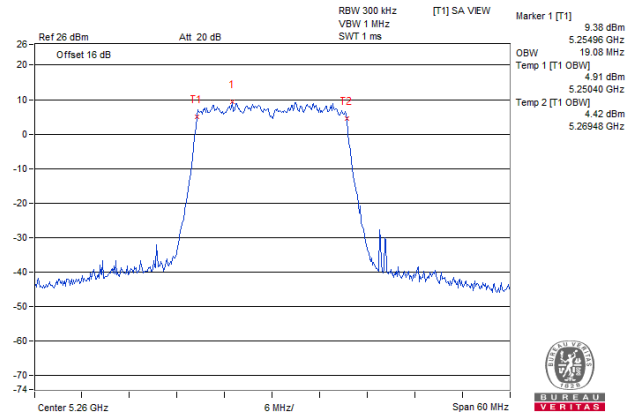
11ax (20MHz) 3S4T TxBF CH52 Ant1



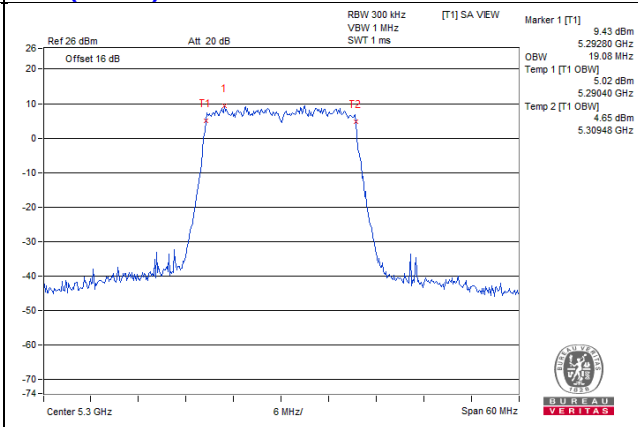
11ax (20MHz) 3S4T TxBF CH60 Ant1



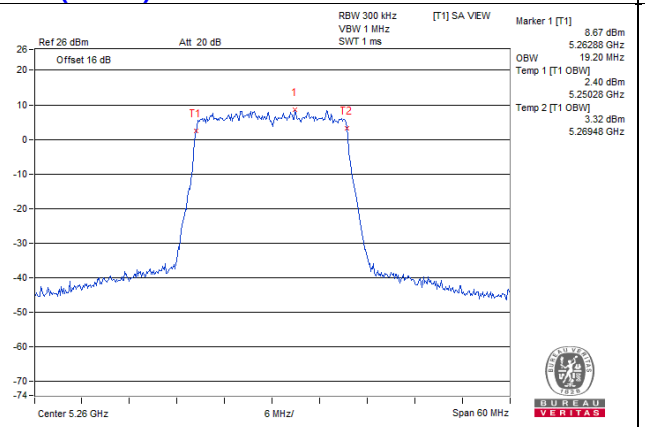
11ax (20MHz) 3S4T TxBF CH52 Ant2



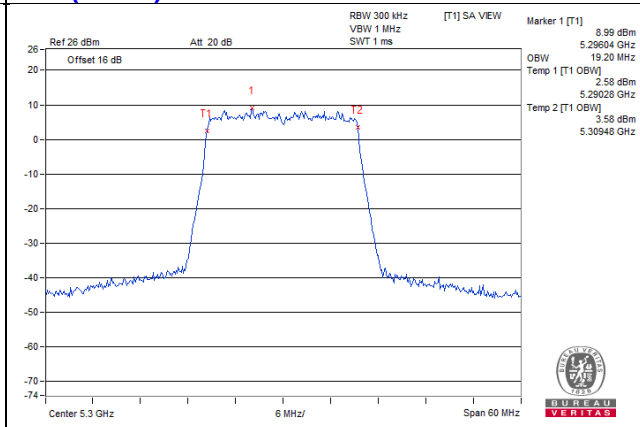
11ax (20MHz) 3S4T TxBF CH60 Ant2



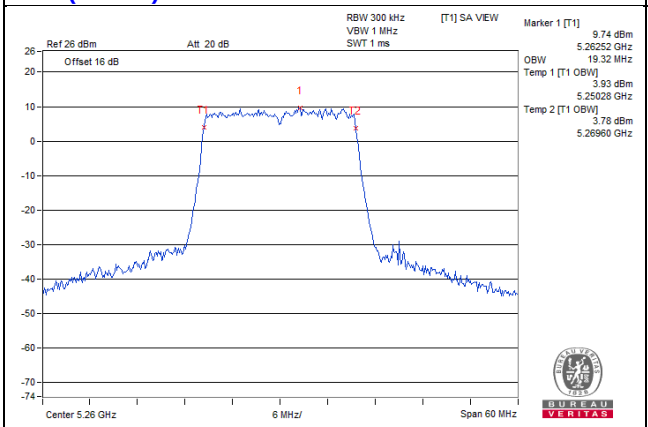
11ax (20MHz) 3S4T TxBF CH52 Ant3



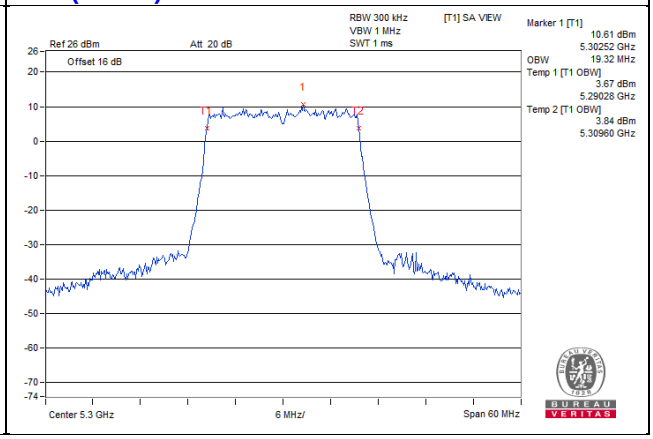
11ax (20MHz) 3S4T TxBF CH60 Ant3



11ax (20MHz) 3S4T TxBF CH52 Ant4

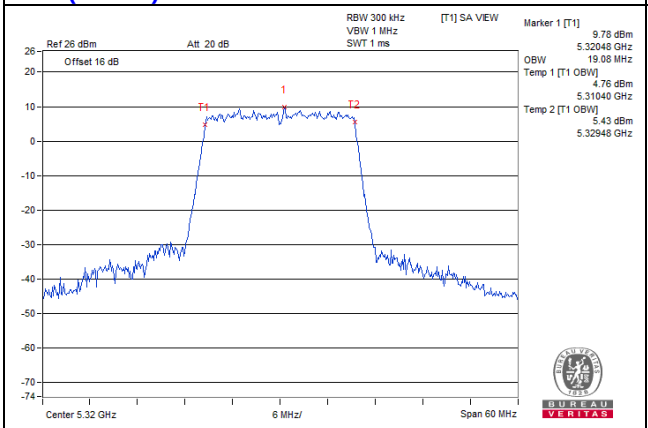


11ax (20MHz) 3S4T TxBF CH60 Ant4

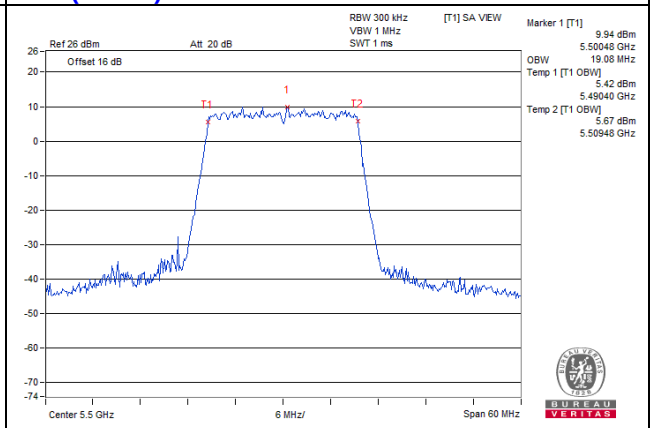


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

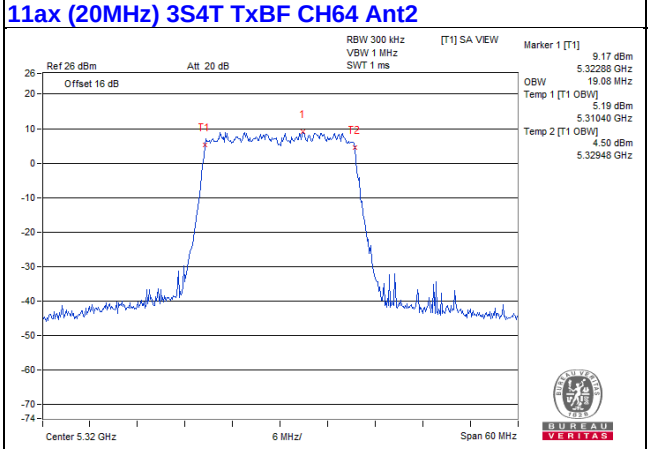
11ax (20MHz) 3S4T TxBF CH64 Ant1



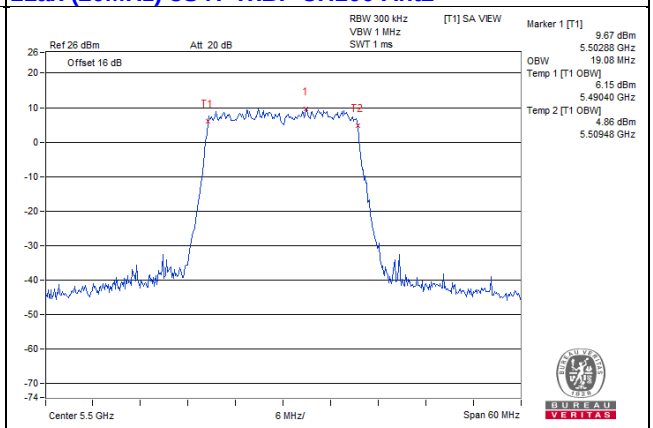
11ax (20MHz) 3S4T TxBF CH100 Ant1



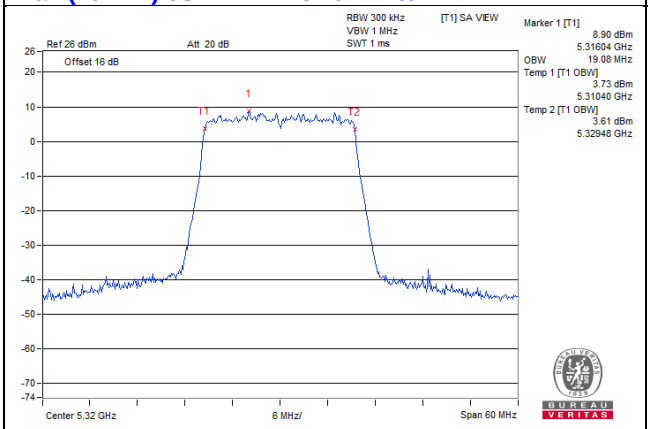
11ax (20MHz) 3S4T TxBF CH64 Ant2



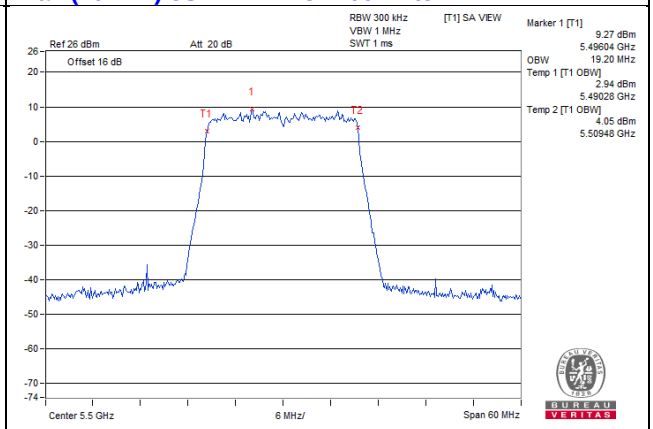
11ax (20MHz) 3S4T TxBF CH100 Ant2



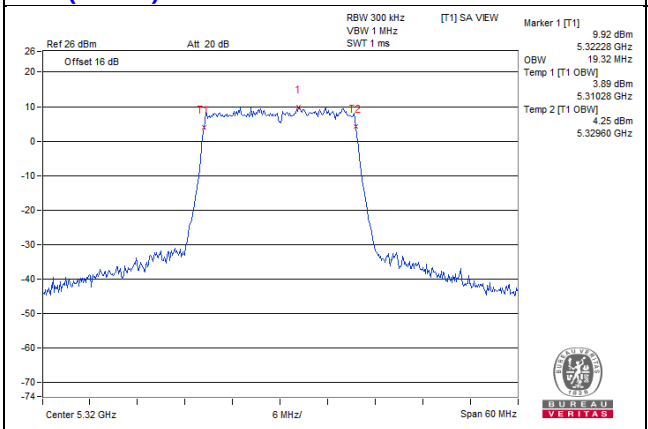
11ax (20MHz) 3S4T TxBF CH64 Ant3



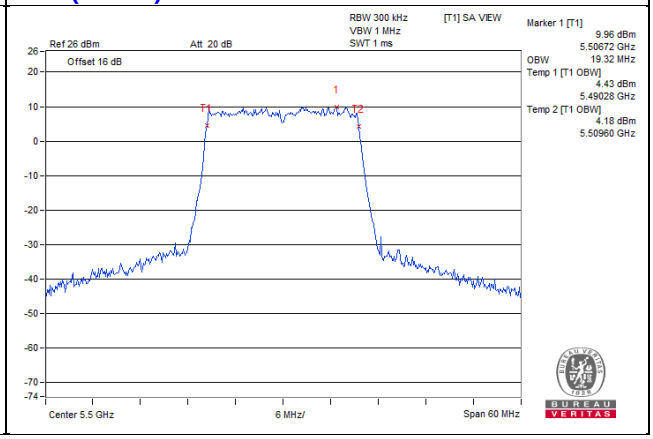
11ax (20MHz) 3S4T TxBF CH100 Ant3



11ax (20MHz) 3S4T TxBF CH64 Ant4

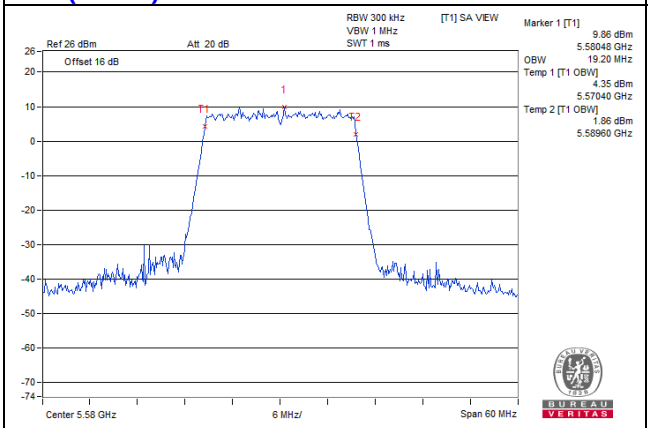


11ax (20MHz) 3S4T TxBF CH100 Ant4

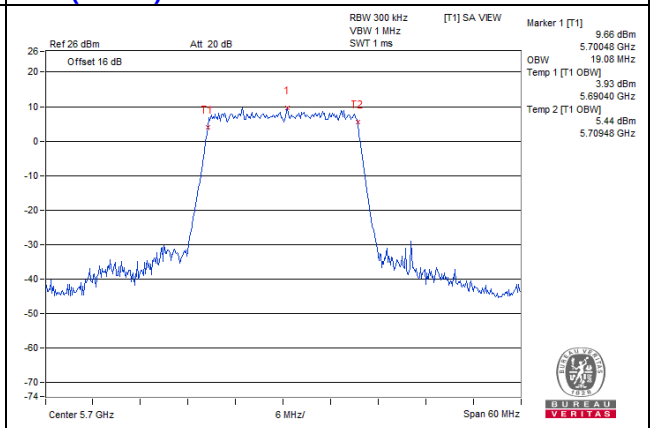


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

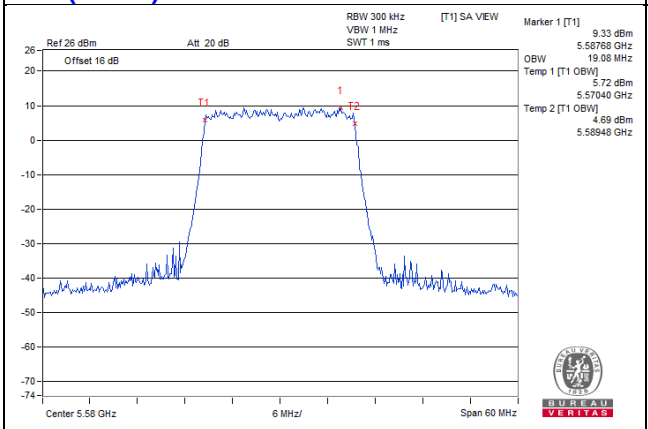
11ax (20MHz) 3S4T TxBF CH116 Ant1



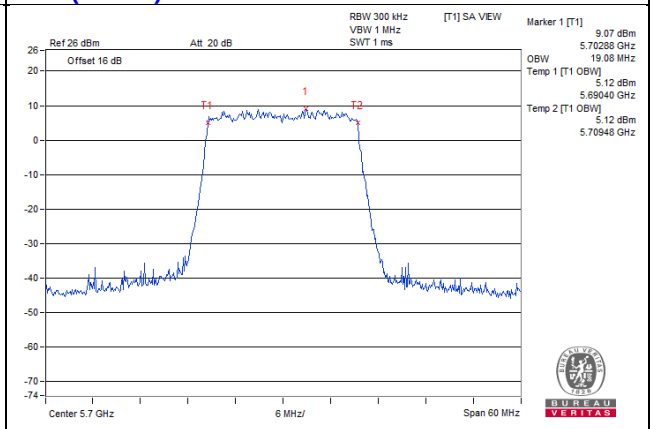
11ax (20MHz) 3S4T TxBF CH140 Ant1



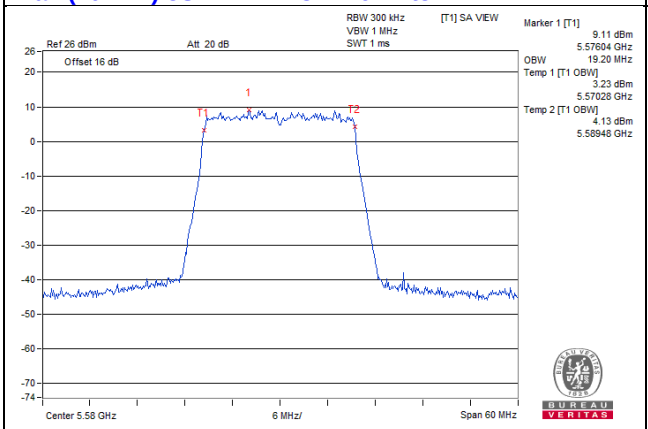
11ax (20MHz) 3S4T TxBF CH116 Ant2



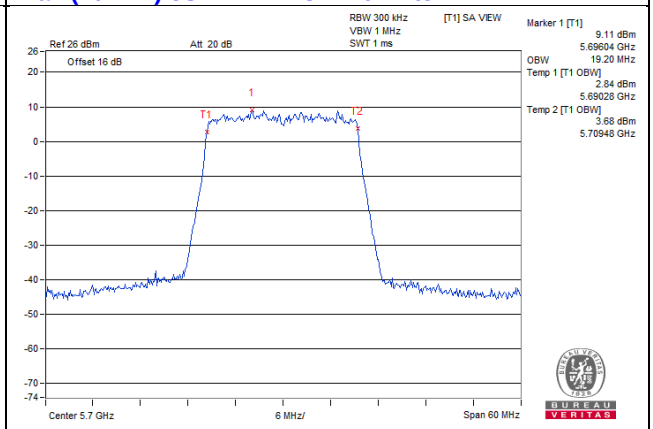
11ax (20MHz) 3S4T TxBF CH140 Ant2



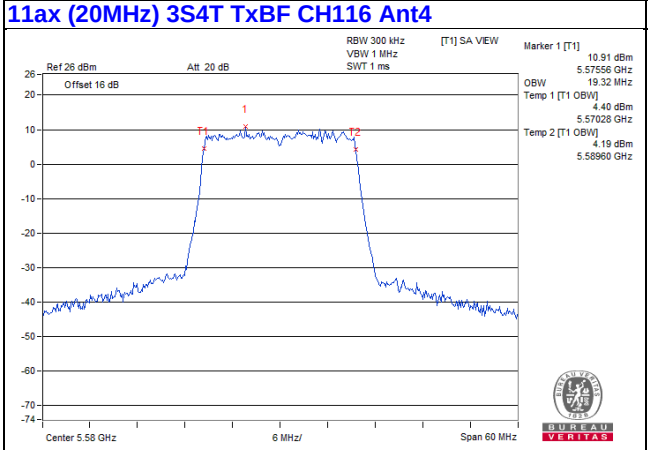
11ax (20MHz) 3S4T TxBF CH116 Ant3



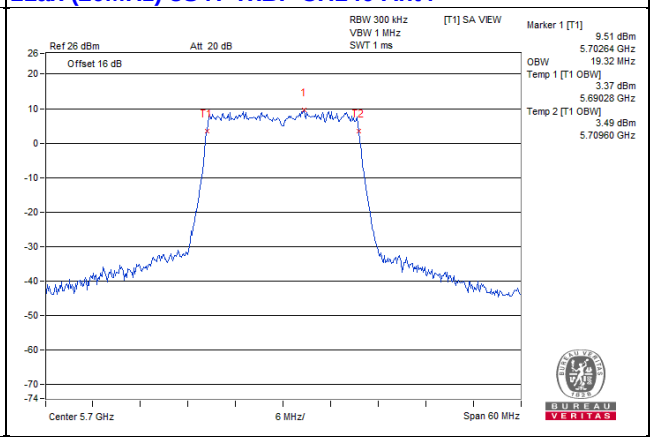
11ax (20MHz) 3S4T TxBF CH140 Ant3



11ax (20MHz) 3S4T TxBF CH116 Ant4

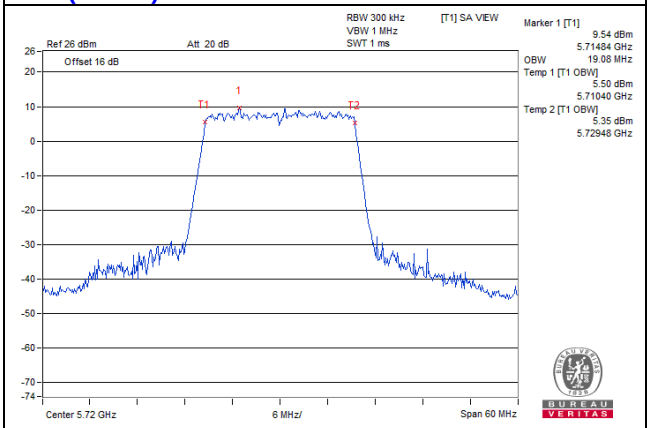


11ax (20MHz) 3S4T TxBF CH140 Ant4

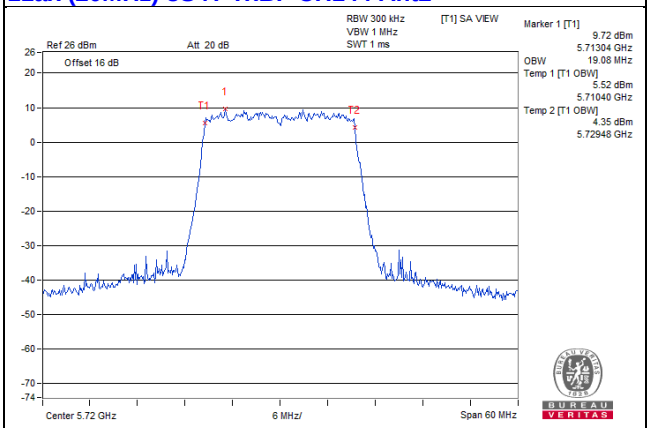


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

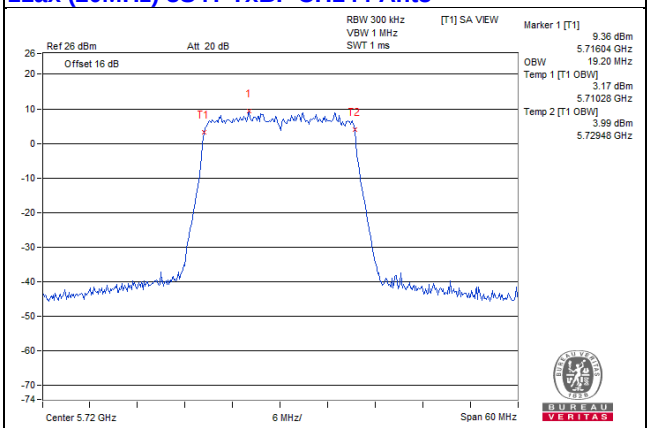
11ax (20MHz) 3S4T TxBF CH144 Ant1



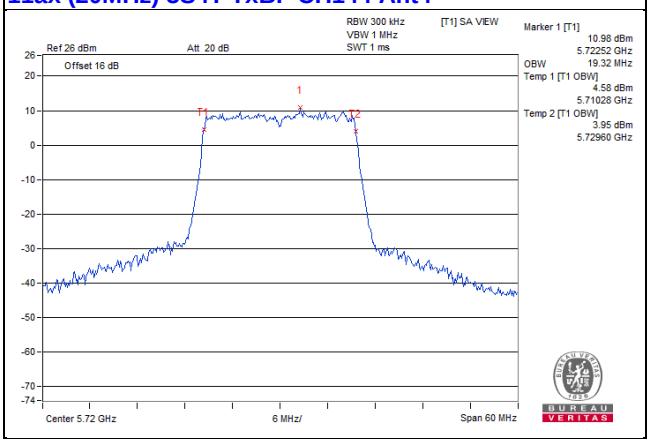
11ax (20MHz) 3S4T TxBF CH144 Ant2



11ax (20MHz) 3S4T TxBF CH144 Ant3

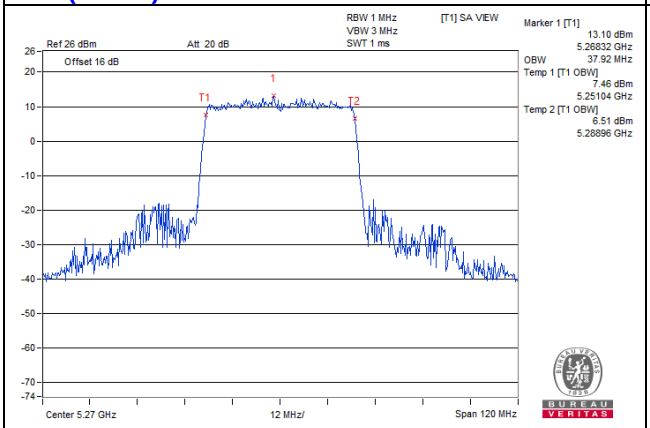


11ax (20MHz) 3S4T TxBF CH144 Ant4

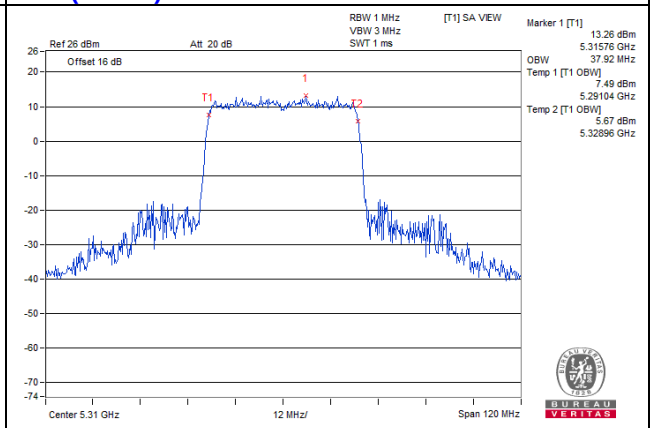


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

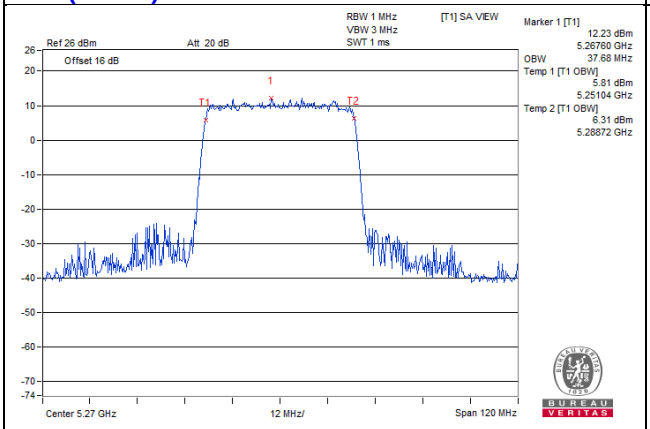
11ax (40MHz) 1S4T CDD CH54 Ant1



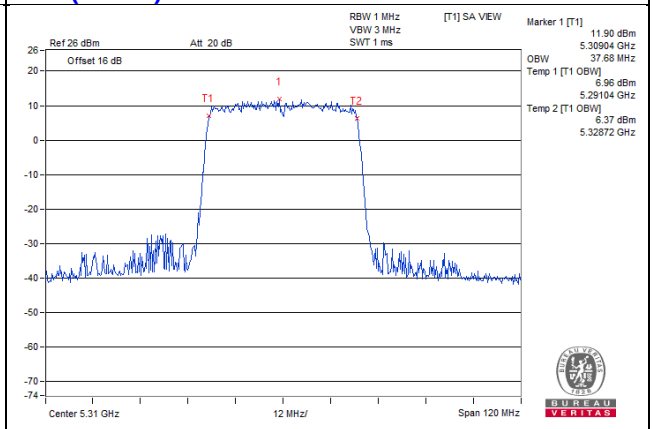
11ax (40MHz) 1S4T CDD CH62 Ant1



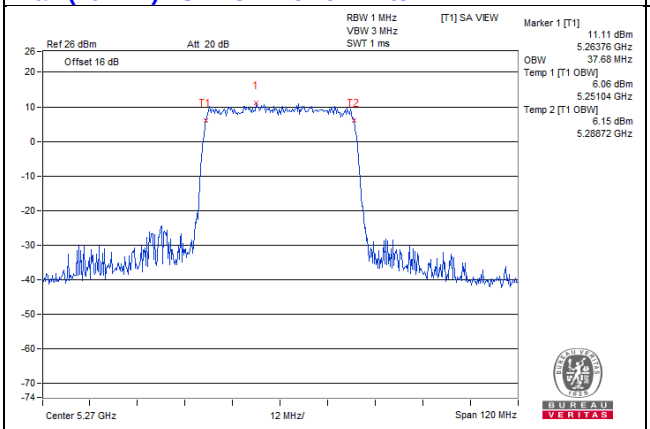
11ax (40MHz) 1S4T CDD CH54 Ant2



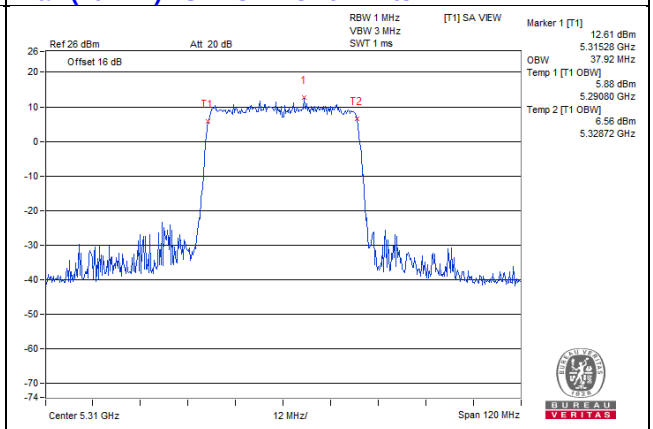
11ax (40MHz) 1S4T CDD CH62 Ant2



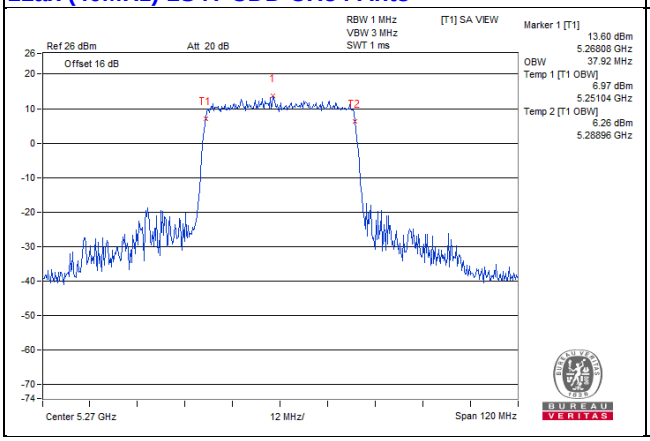
11ax (40MHz) 1S4T CDD CH54 Ant3



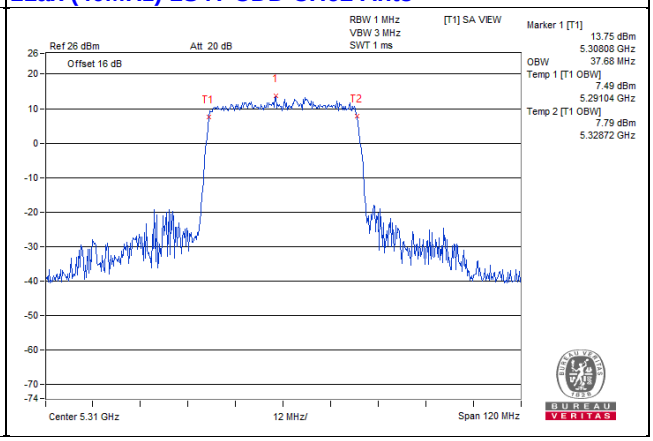
11ax (40MHz) 1S4T CDD CH62 Ant3



11ax (40MHz) 1S4T CDD CH54 Ant3

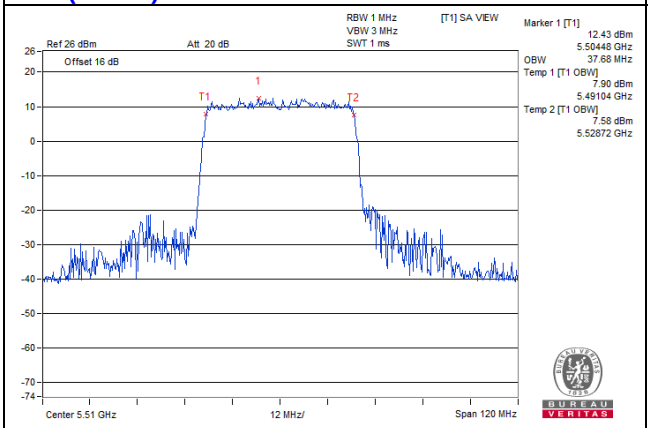


11ax (40MHz) 1S4T CDD CH62 Ant3

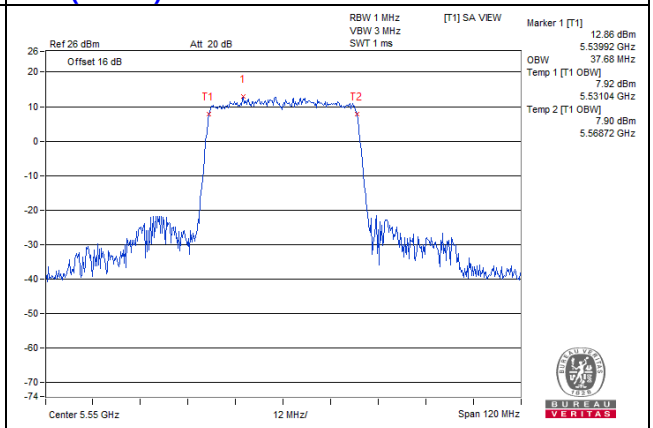


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

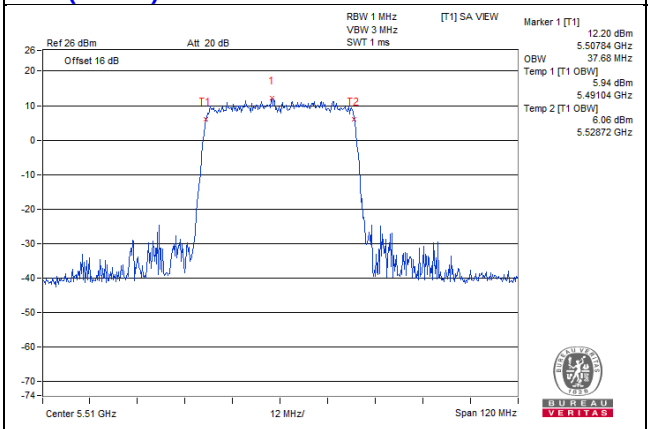
11ax (40MHz) 1S4T CDD CH102 Ant1



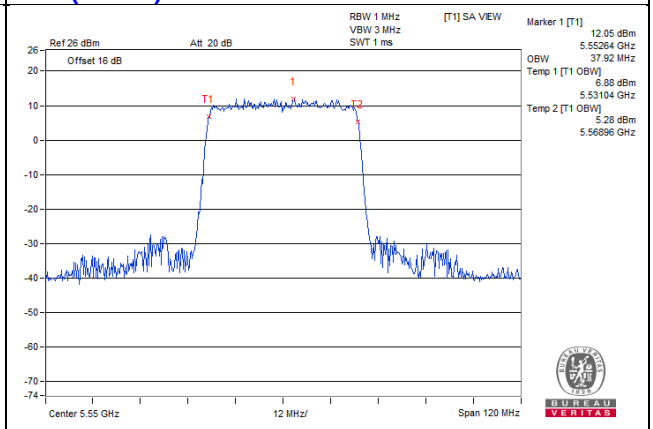
11ax (40MHz) 1S4T CDD CH110 Ant1



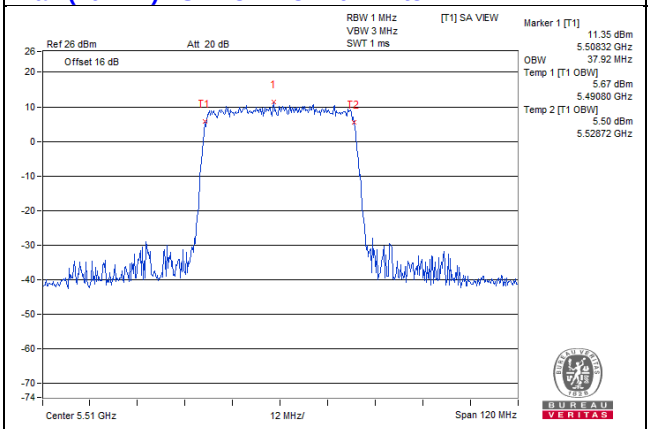
11ax (40MHz) 1S4T CDD CH102 Ant2



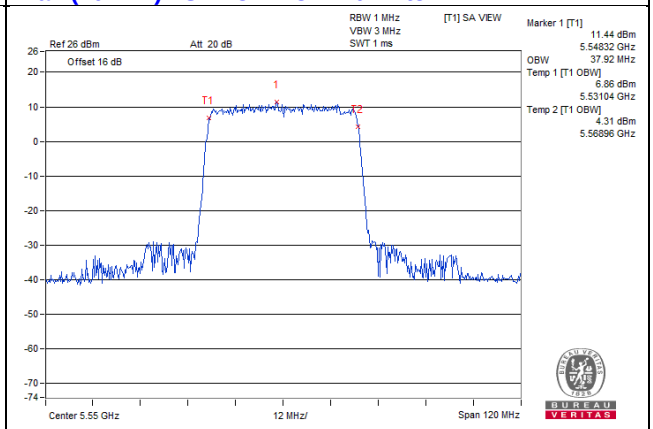
11ax (40MHz) 1S4T CDD CH110 Ant2



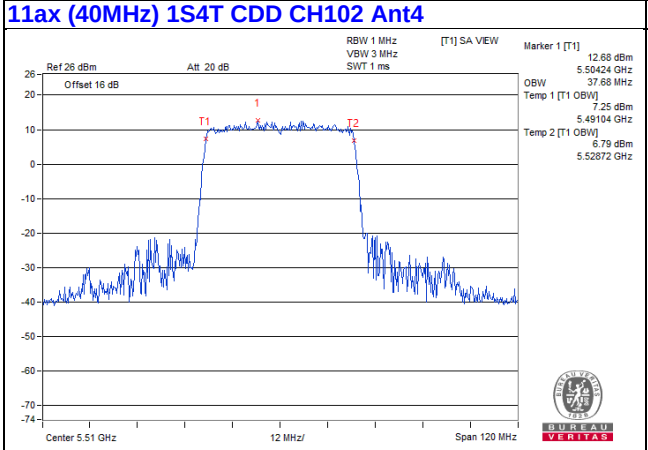
11ax (40MHz) 1S4T CDD CH102 Ant3



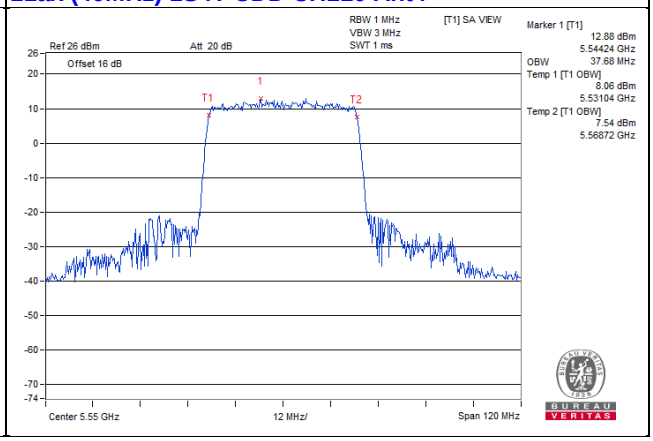
11ax (40MHz) 1S4T CDD CH110 Ant3



11ax (40MHz) 1S4T CDD CH102 Ant4

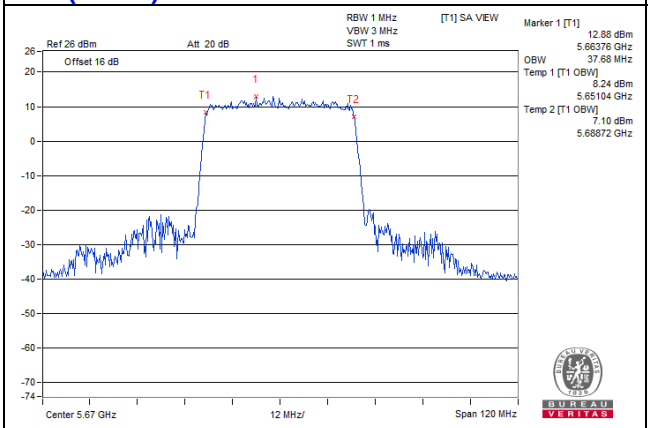


11ax (40MHz) 1S4T CDD CH110 Ant4

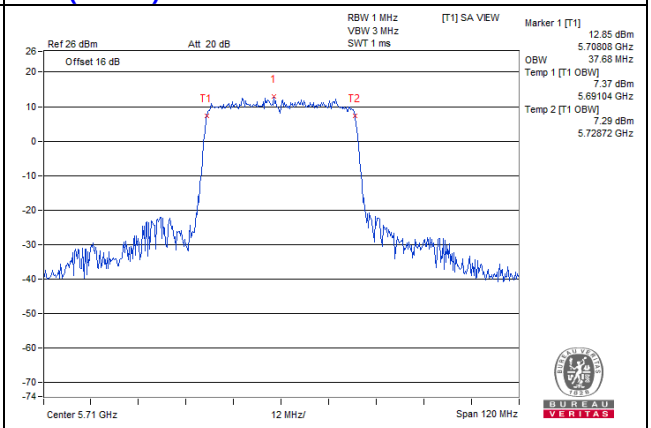


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

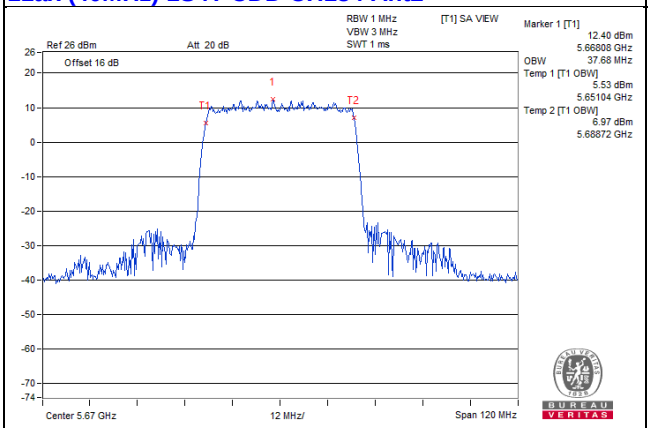
11ax (40MHz) 1S4T CDD CH134 Ant1



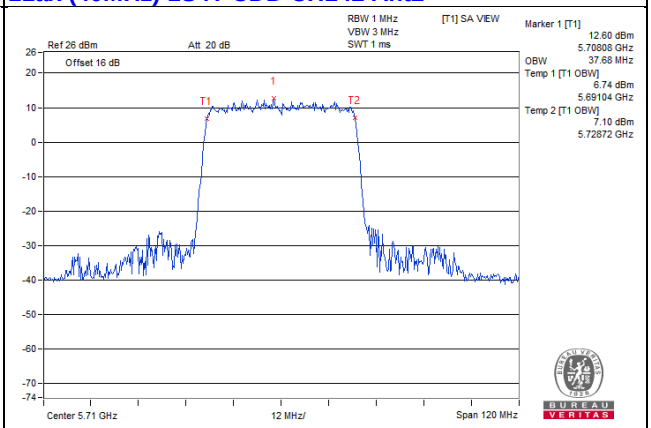
11ax (40MHz) 1S4T CDD CH142 Ant1



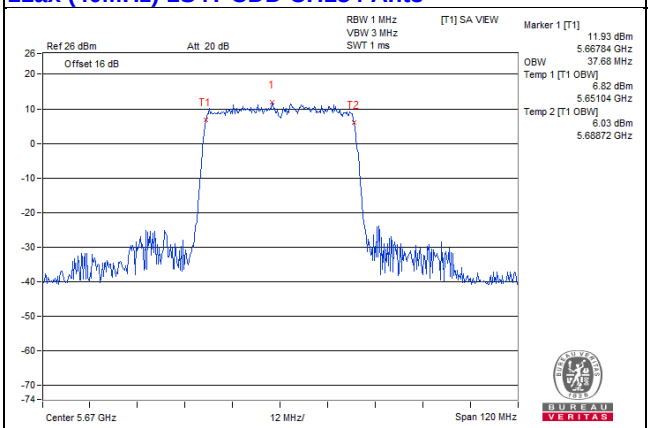
11ax (40MHz) 1S4T CDD CH134 Ant2



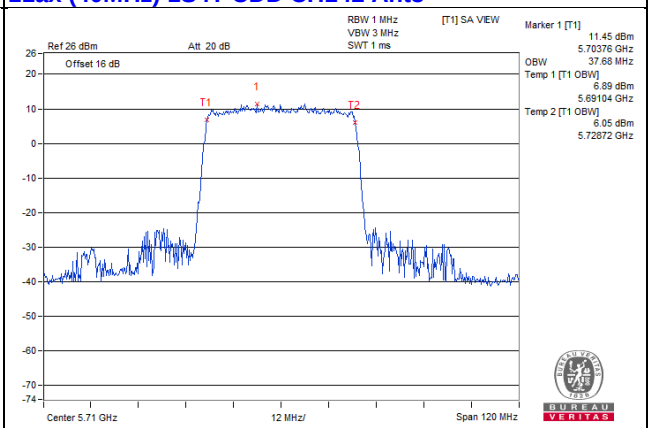
11ax (40MHz) 1S4T CDD CH142 Ant2



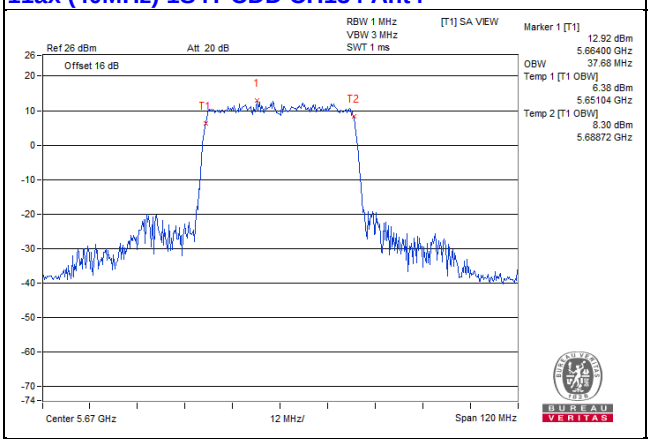
11ax (40MHz) 1S4T CDD CH134 Ant3



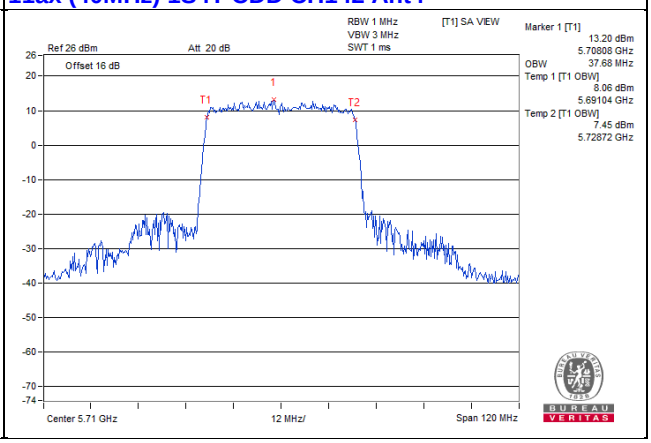
11ax (40MHz) 1S4T CDD CH142 Ant3



11ax (40MHz) 1S4T CDD CH134 Ant4

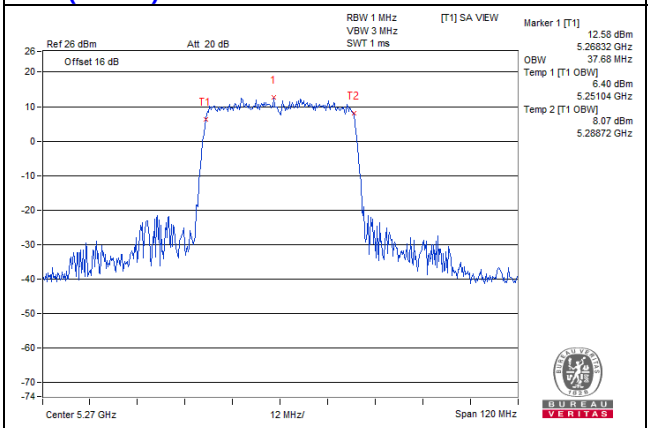


11ax (40MHz) 1S4T CDD CH142 Ant4

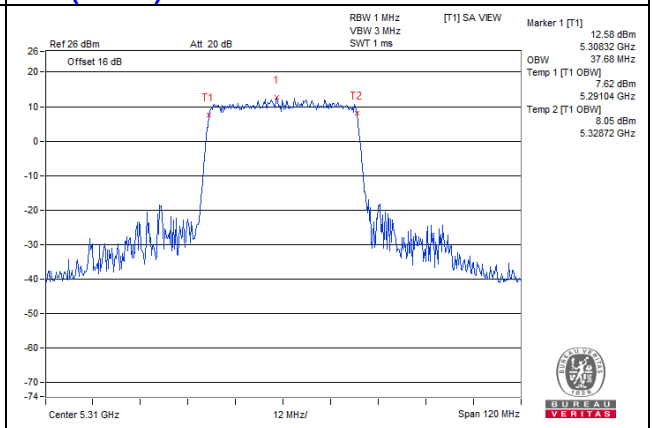


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

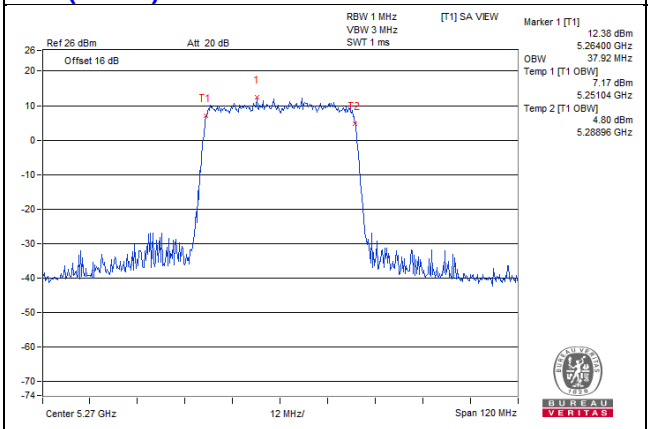
11ax (40MHz) 1S4T TxBF CH54 Ant1



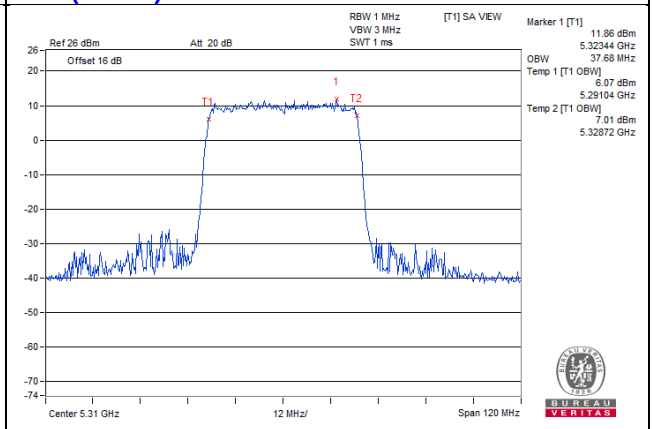
11ax (40MHz) 1S4T TxBF CH62 Ant1



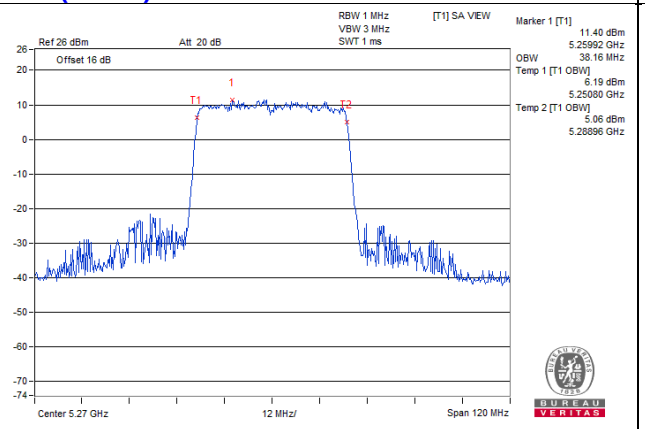
11ax (40MHz) 1S4T TxBF CH54 Ant2



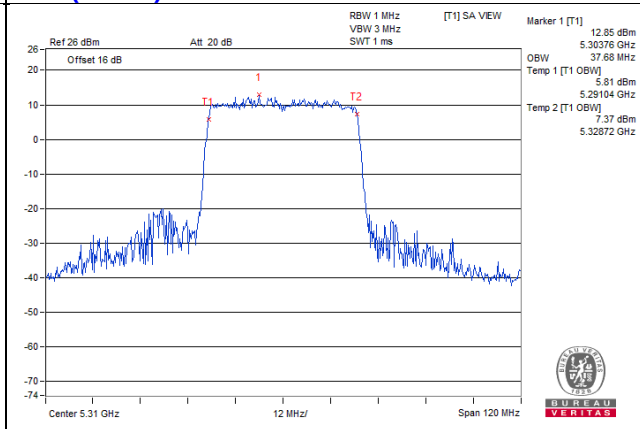
11ax (40MHz) 1S4T TxBF CH62 Ant2



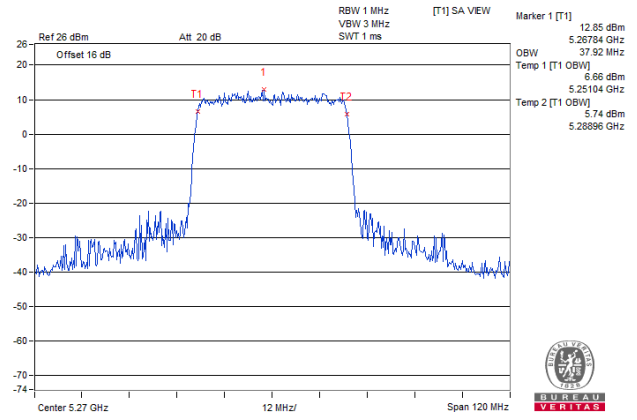
11ax (40MHz) 1S4T TxBF CH54 Ant3



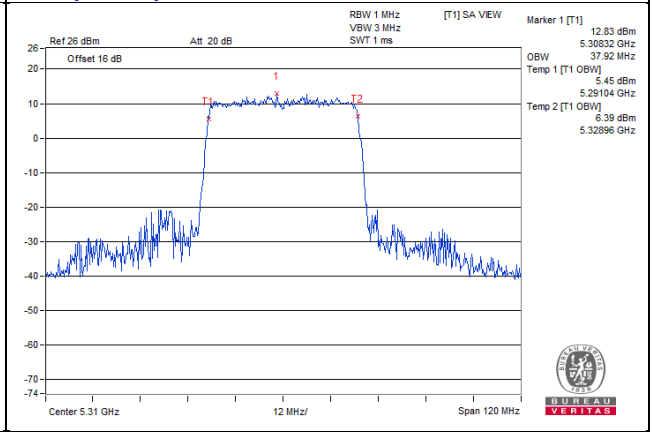
11ax (40MHz) 1S4T TxBF CH62 Ant3



11ax (40MHz) 1S4T TxBF CH54 Ant4

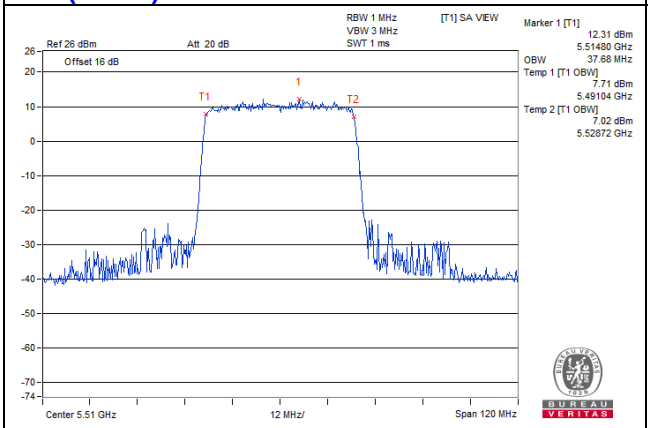


11ax (40MHz) 1S4T TxBF CH62 Ant4

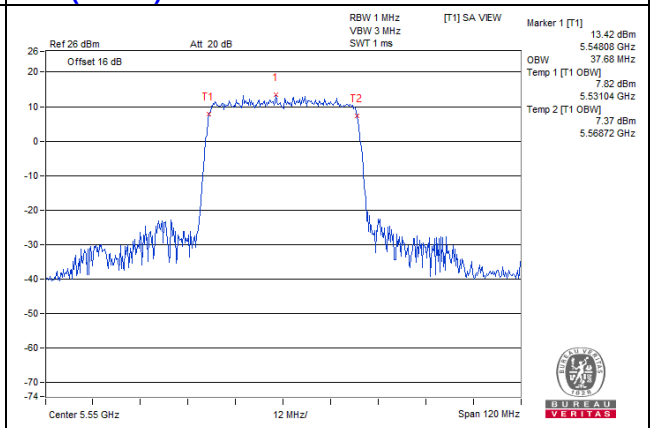


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

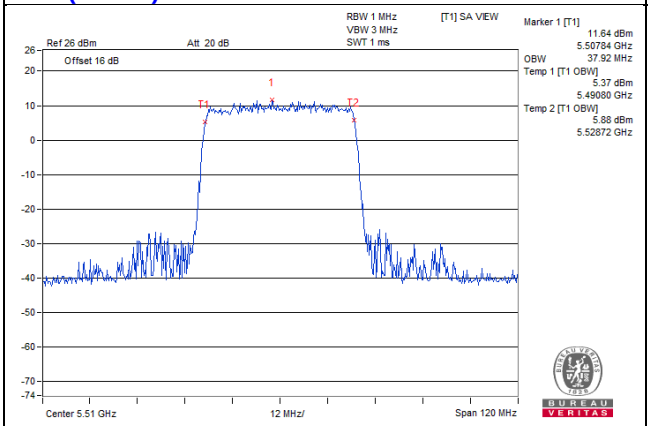
11ax (40MHz) 1S4T TxBF CH102 Ant1



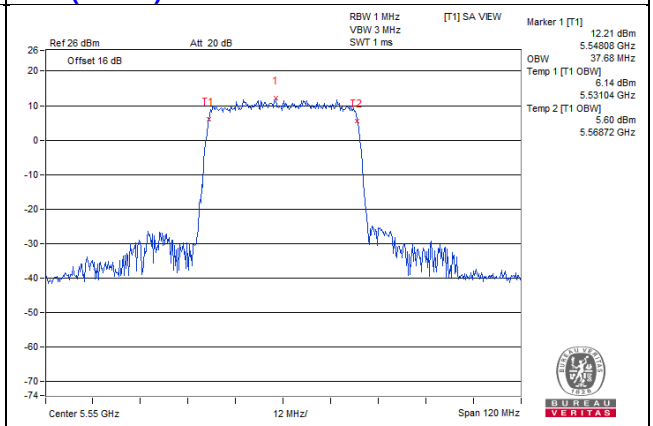
11ax (40MHz) 1S4T TxBF CH110 Ant1



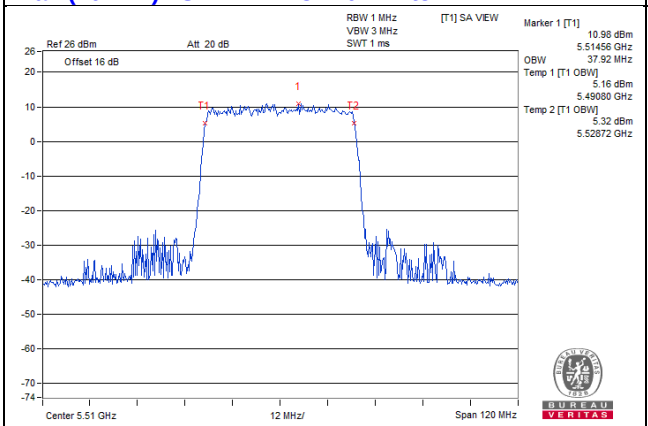
11ax (40MHz) 1S4T TxBF CH102 Ant2



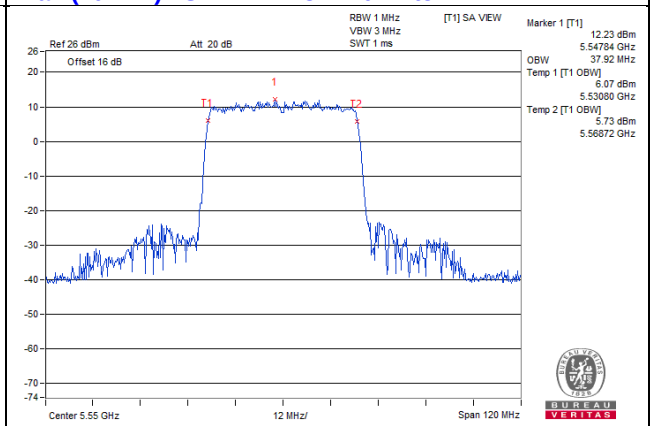
11ax (40MHz) 1S4T TxBF CH110 Ant2



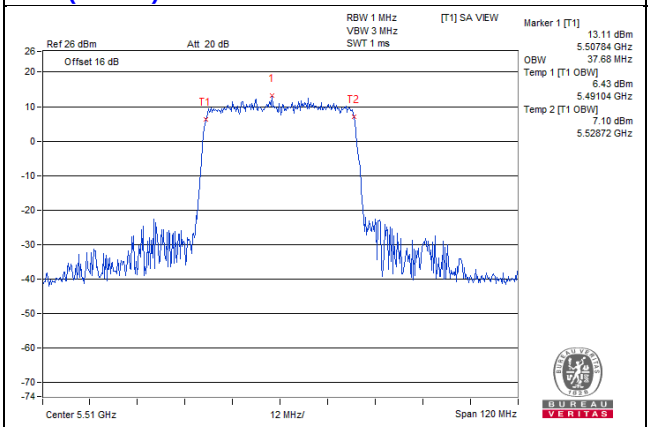
11ax (40MHz) 1S4T TxBF CH102 Ant3



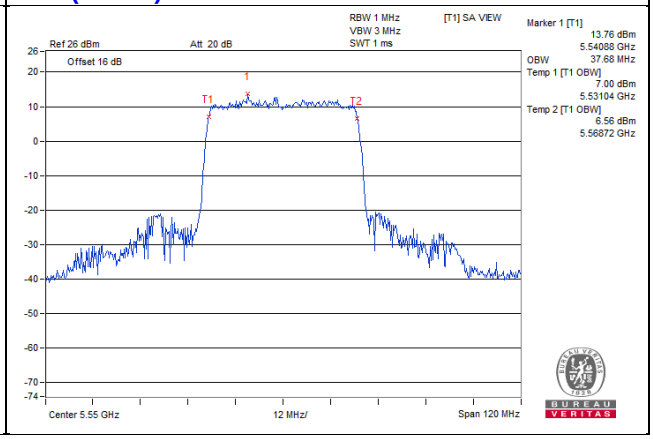
11ax (40MHz) 1S4T TxBF CH110 Ant3



11ax (40MHz) 1S4T TxBF CH102 Ant4

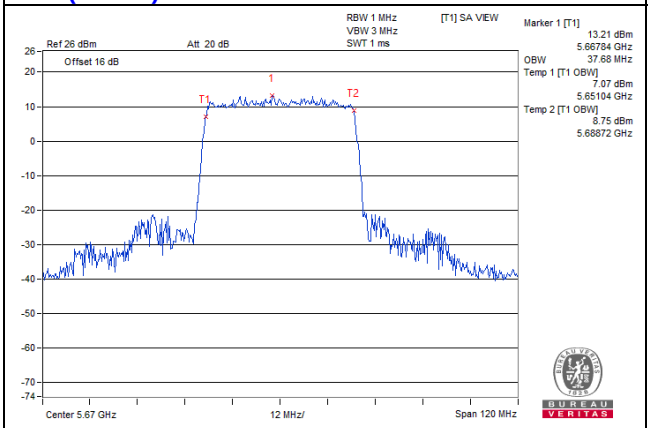


11ax (40MHz) 1S4T TxBF CH110 Ant4

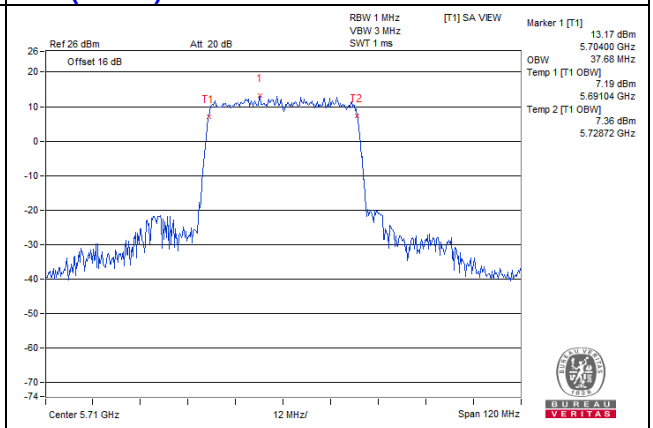


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

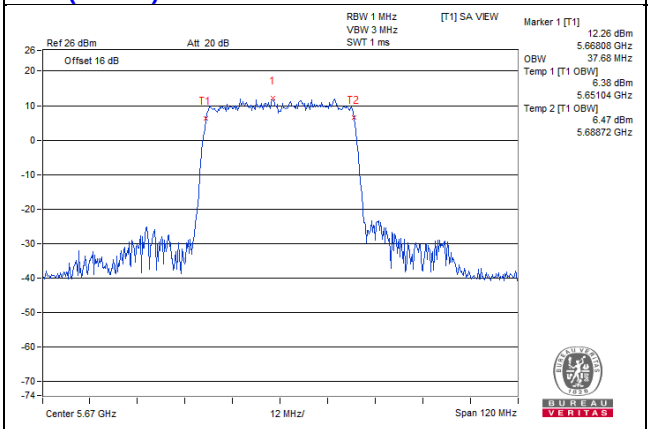
11ax (40MHz) 1S4T TxBF CH134 Ant1



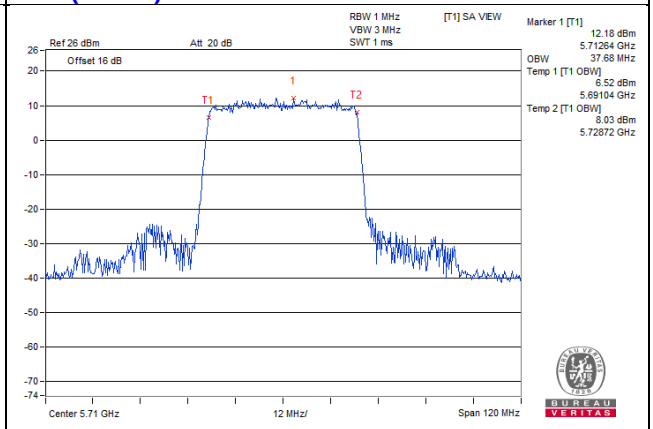
11ax (40MHz) 1S4T TxBF CH142 Ant1



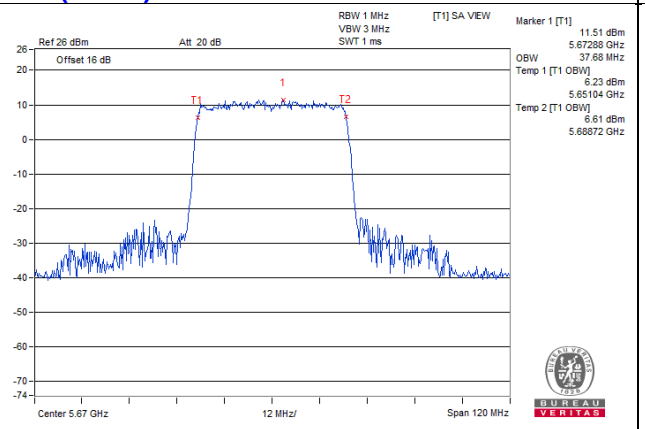
11ax (40MHz) 1S4T TxBF CH134 Ant2



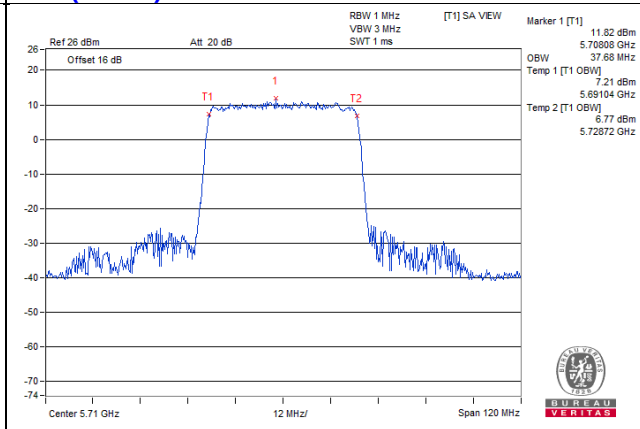
11ax (40MHz) 1S4T TxBF CH142 Ant2



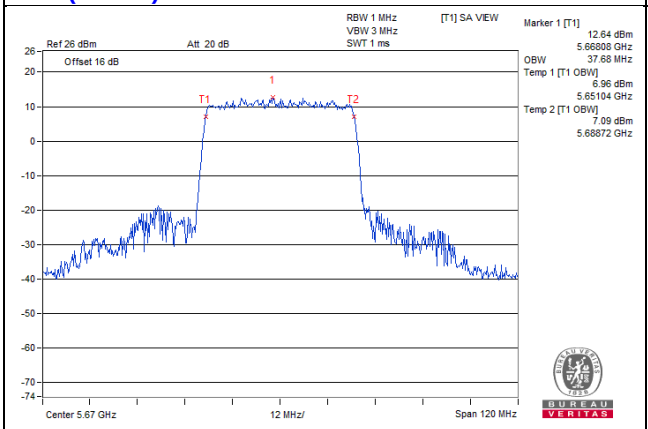
11ax (40MHz) 1S4T TxBF CH134 Ant3



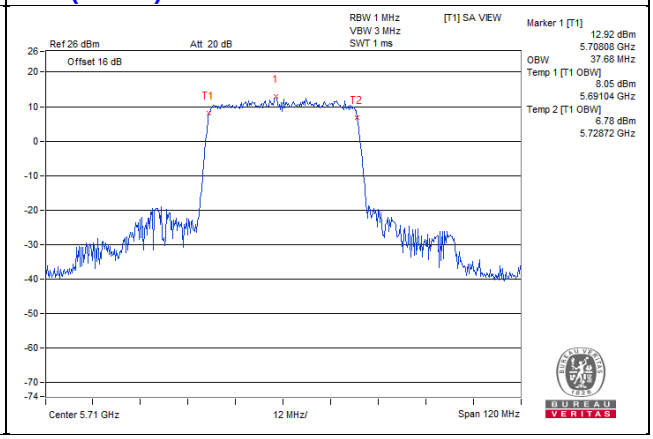
11ax (40MHz) 1S4T TxBF CH142 Ant3



11ax (40MHz) 1S4T TxBF CH134 Ant4

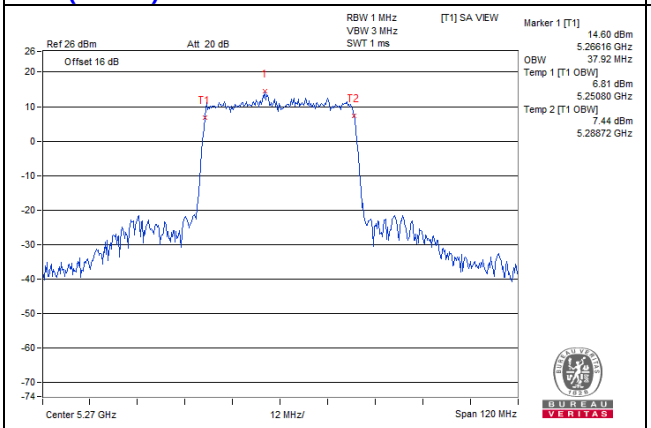


11ax (40MHz) 1S4T TxBF CH142 Ant4

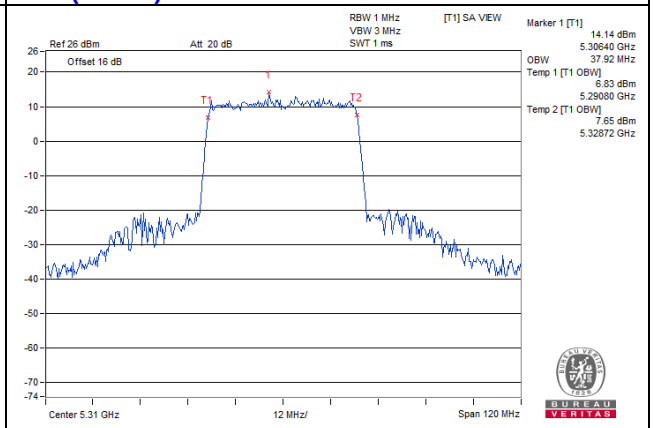


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

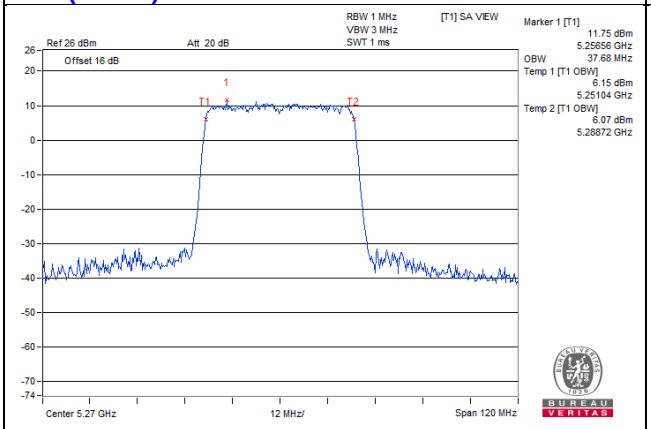
11ax (40MHz) 2S4T TxBF CH54 Ant1



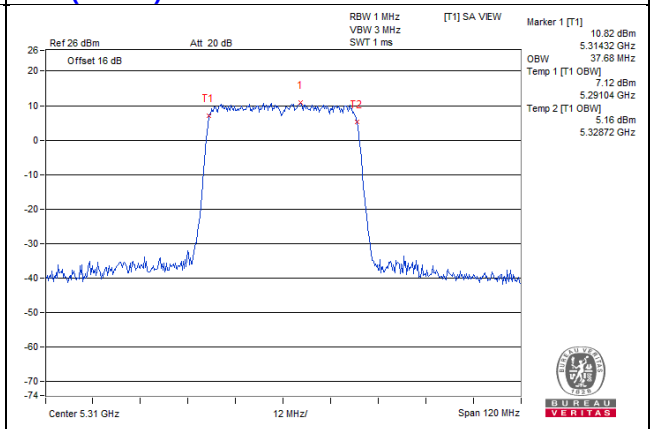
11ax (40MHz) 2S4T TxBF CH62 Ant1



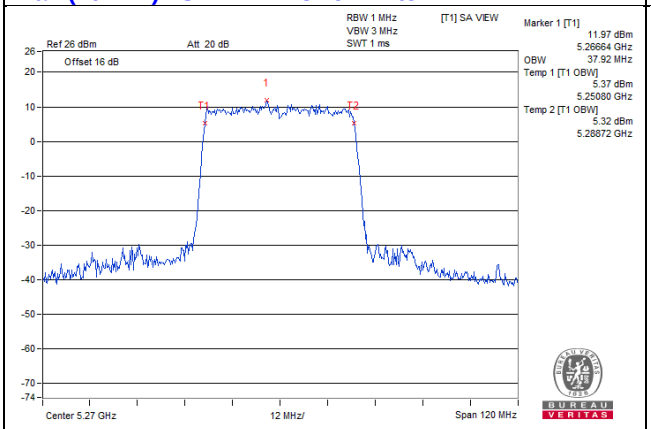
11ax (40MHz) 2S4T TxBF CH54 Ant2



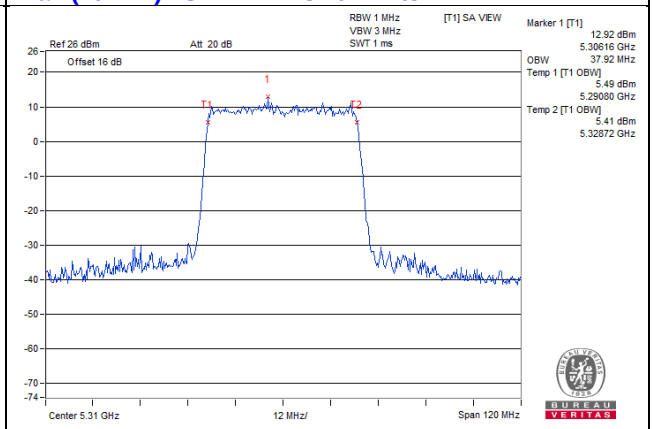
11ax (40MHz) 2S4T TxBF CH62 Ant2



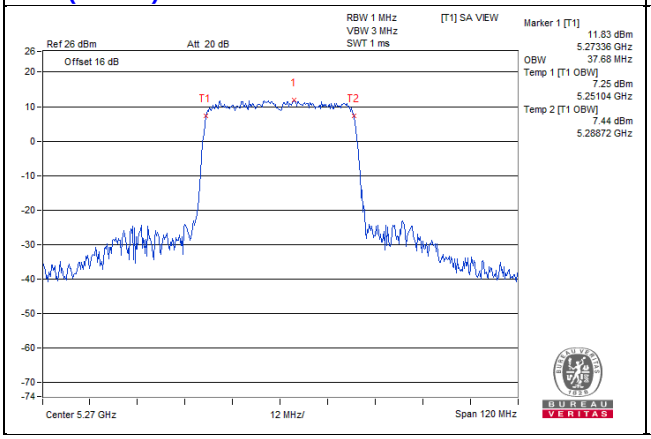
11ax (40MHz) 2S4T TxBF CH54 Ant3



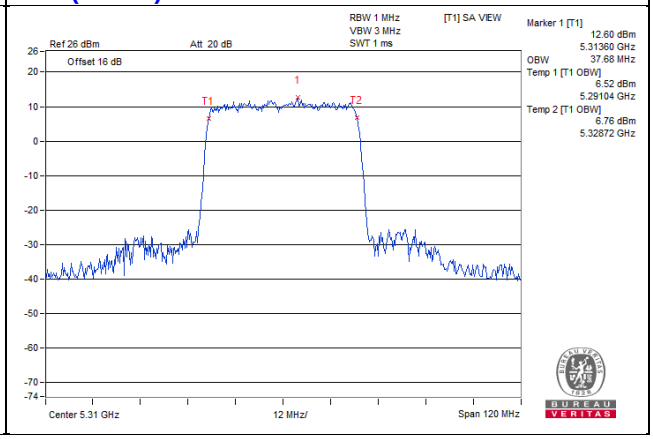
11ax (40MHz) 2S4T TxBF CH62 Ant3



11ax (40MHz) 2S4T TxBF CH54 Ant4

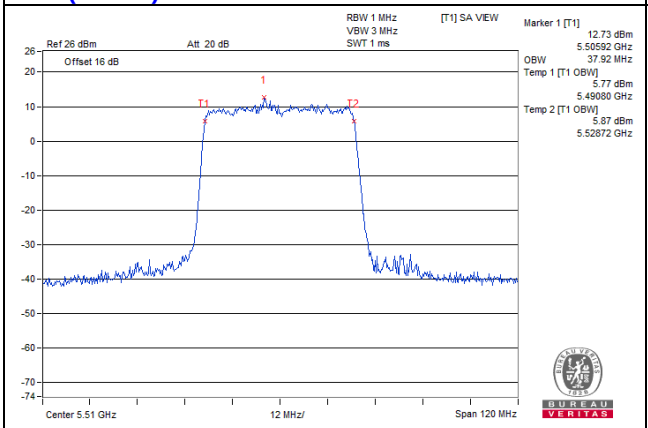


11ax (40MHz) 2S4T TxBF CH62 Ant4

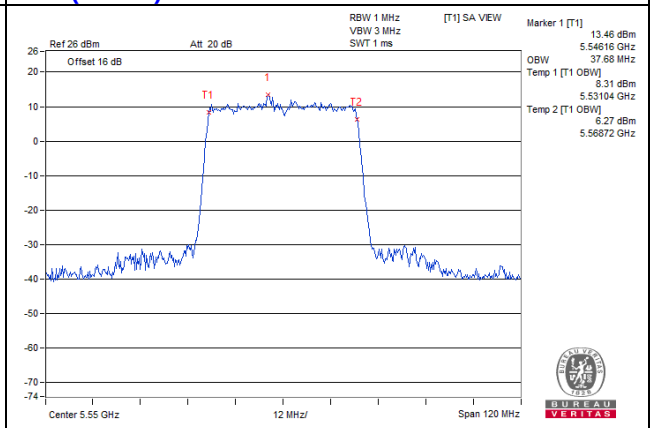


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

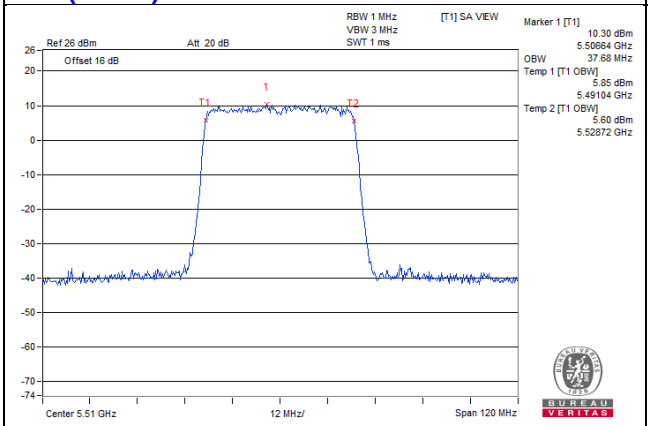
11ax (40MHz) 2S4T TxBF CH102 Ant1



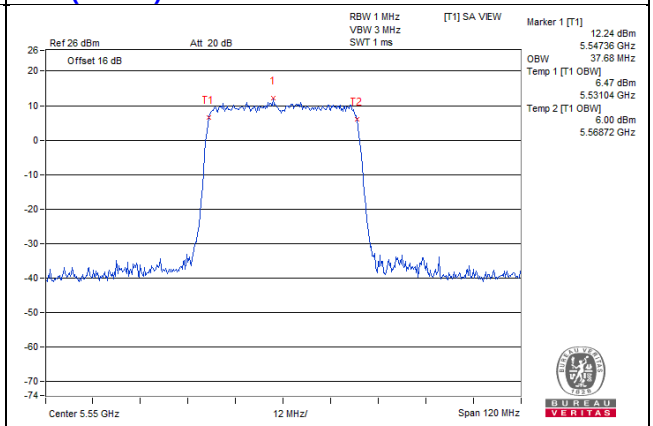
11ax (40MHz) 2S4T TxBF CH110 Ant1



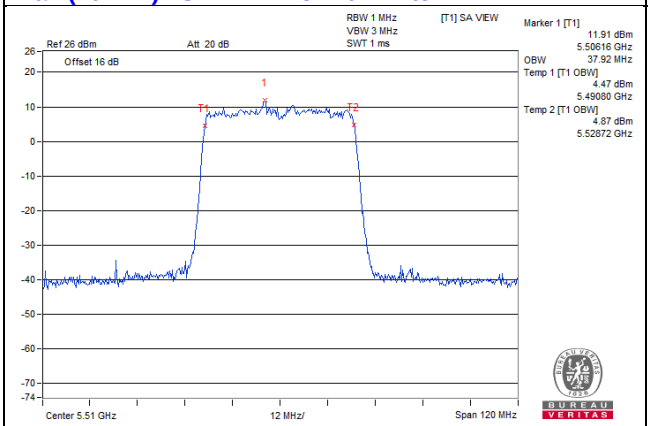
11ax (40MHz) 2S4T TxBF CH102 Ant2



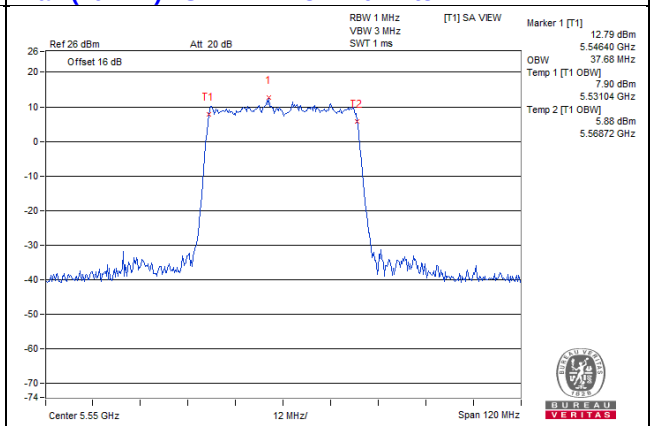
11ax (40MHz) 2S4T TxBF CH110 Ant2



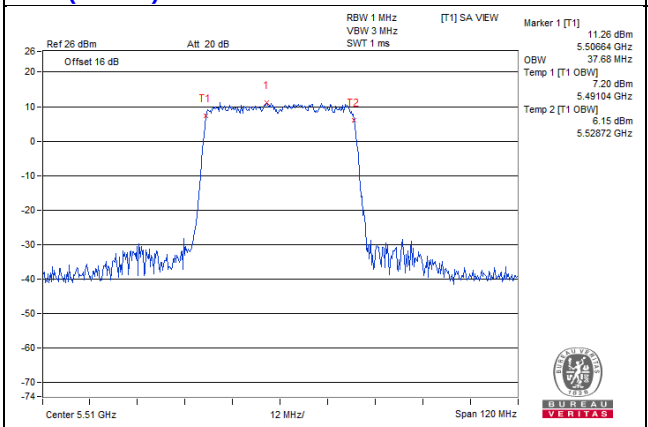
11ax (40MHz) 2S4T TxBF CH102 Ant3



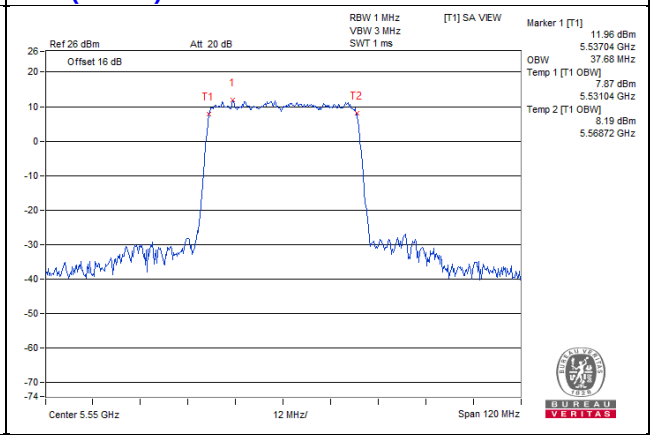
11ax (40MHz) 2S4T TxBF CH110 Ant3



11ax (40MHz) 2S4T TxBF CH102 Ant4

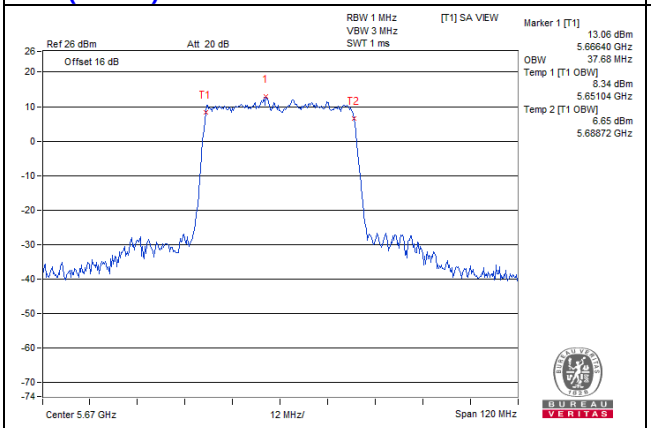


11ax (40MHz) 2S4T TxBF CH110 Ant4

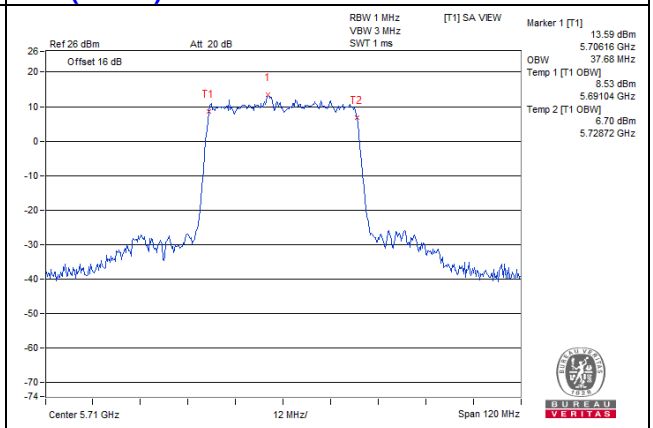


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

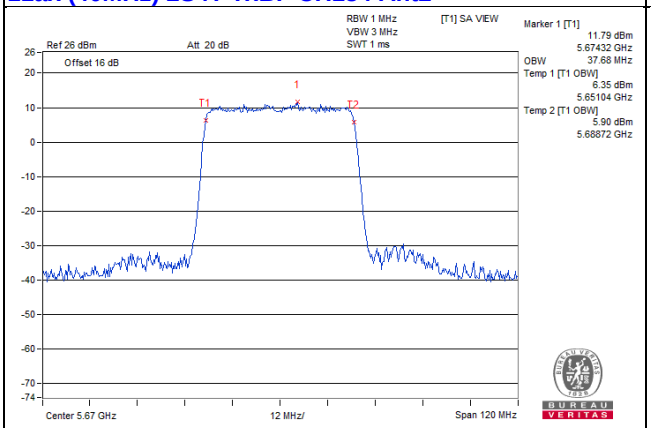
11ax (40MHz) 2S4T TxBF CH134 Ant1



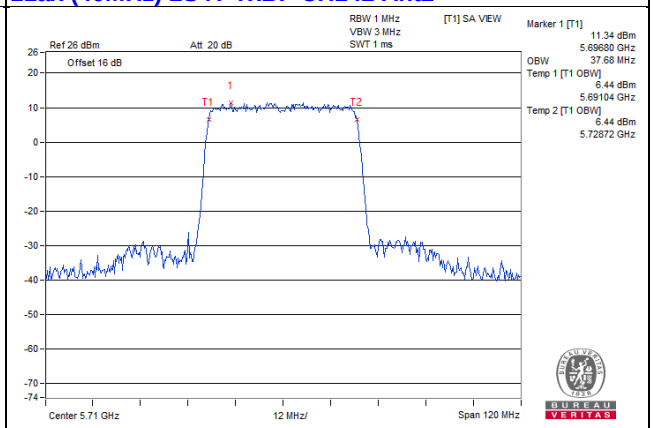
11ax (40MHz) 2S4T TxBF CH142 Ant1



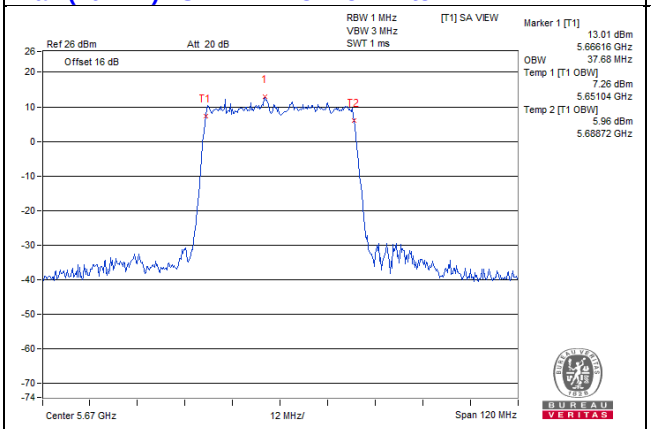
11ax (40MHz) 2S4T TxBF CH134 Ant2



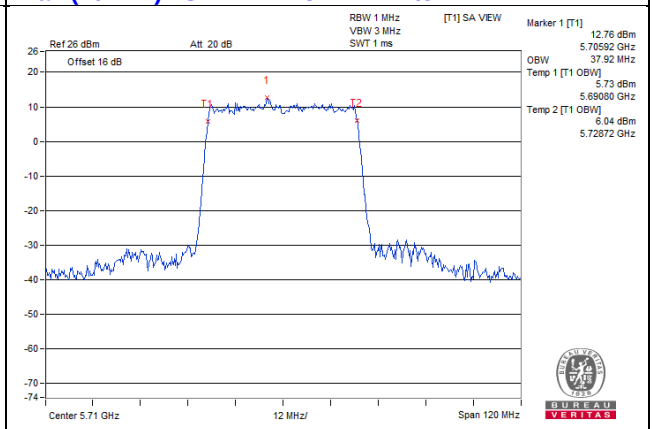
11ax (40MHz) 2S4T TxBF CH142 Ant2



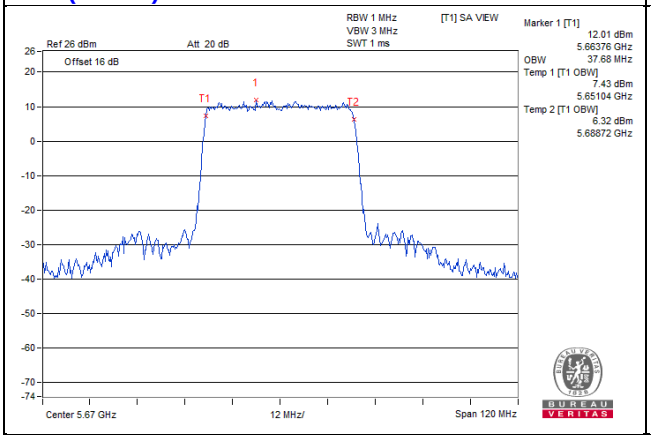
11ax (40MHz) 2S4T TxBF CH134 Ant3



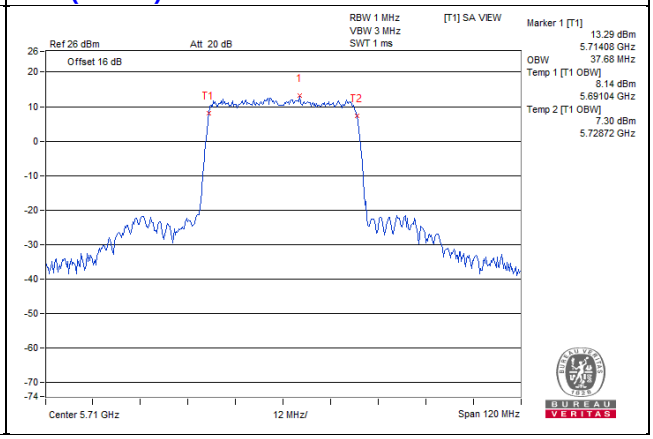
11ax (40MHz) 2S4T TxBF CH142 Ant3



11ax (40MHz) 2S4T TxBF CH134 Ant4

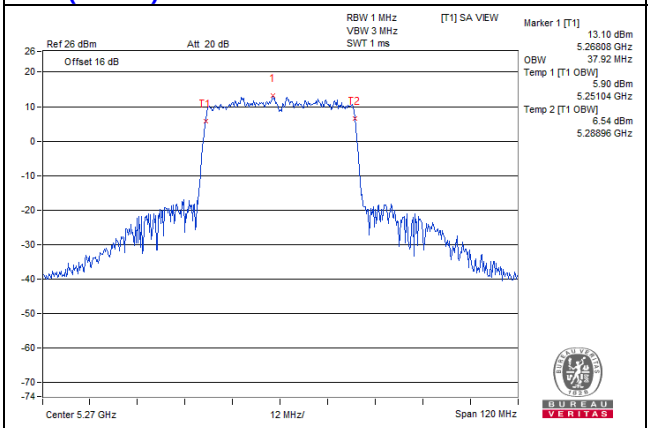


11ax (40MHz) 2S4T TxBF CH142 Ant4

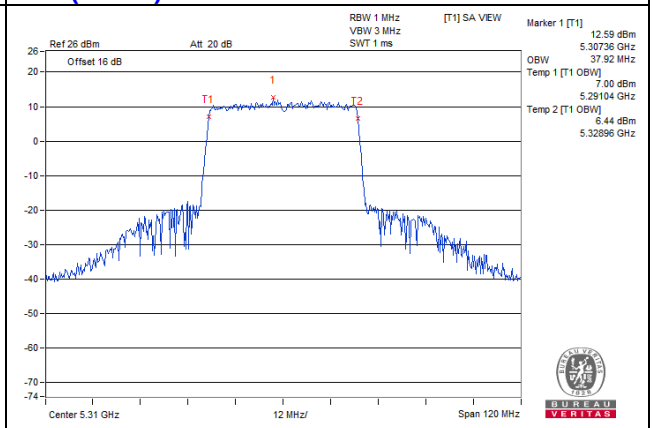


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

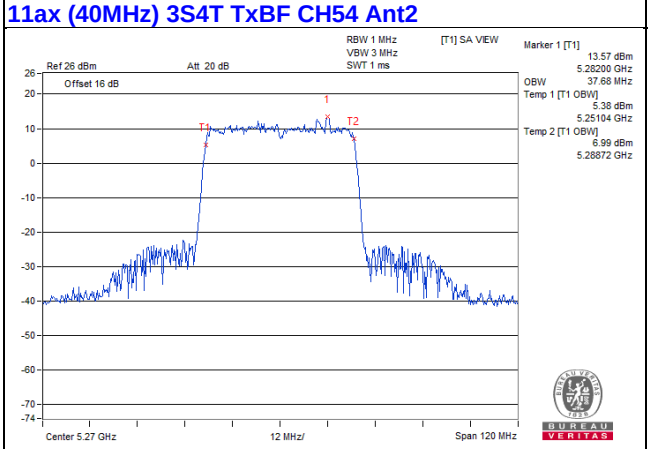
11ax (40MHz) 3S4T TxBF CH54 Ant1



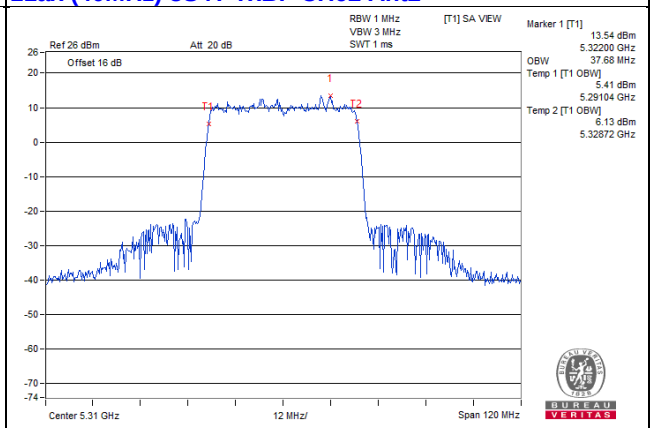
11ax (40MHz) 3S4T TxBF CH62 Ant1



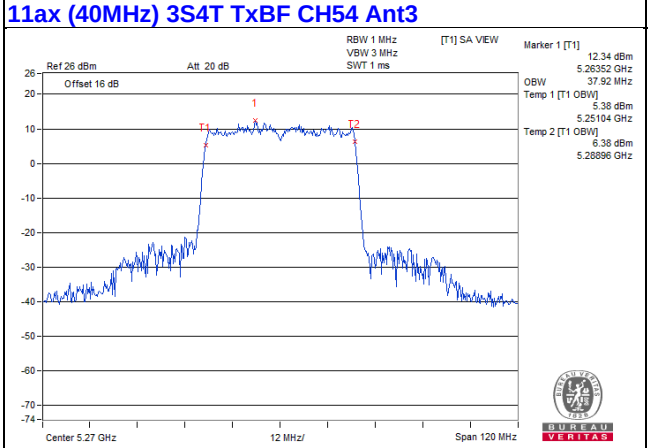
11ax (40MHz) 3S4T TxBF CH54 Ant2



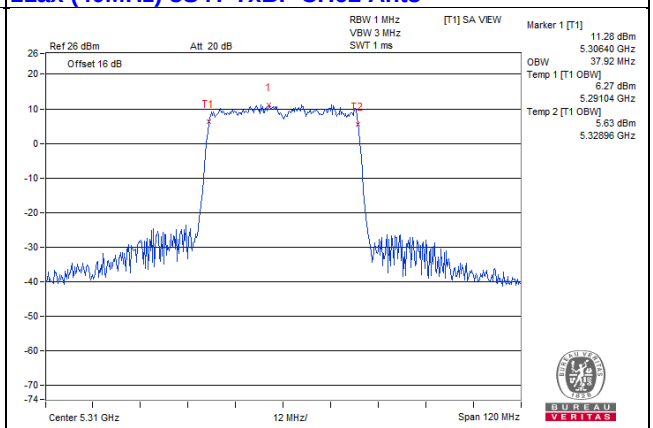
11ax (40MHz) 3S4T TxBF CH62 Ant2



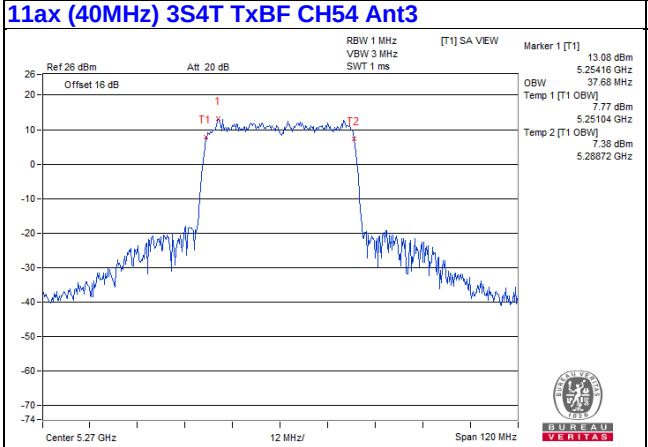
11ax (40MHz) 3S4T TxBF CH54 Ant3



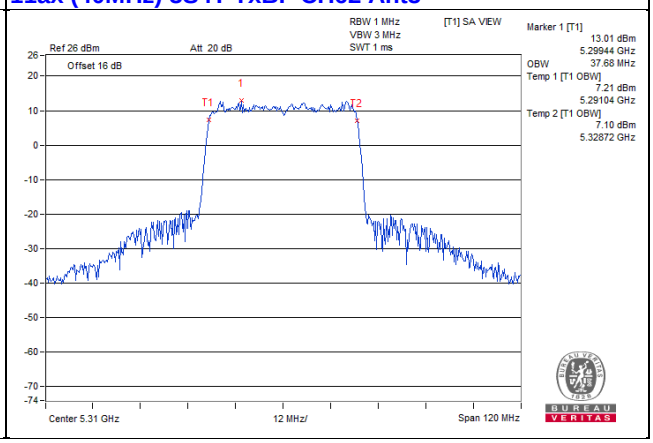
11ax (40MHz) 3S4T TxBF CH62 Ant3



11ax (40MHz) 3S4T TxBF CH54 Ant3

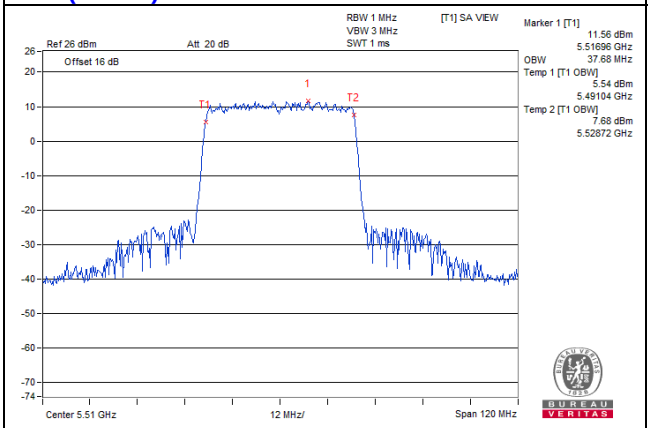


11ax (40MHz) 3S4T TxBF CH62 Ant3

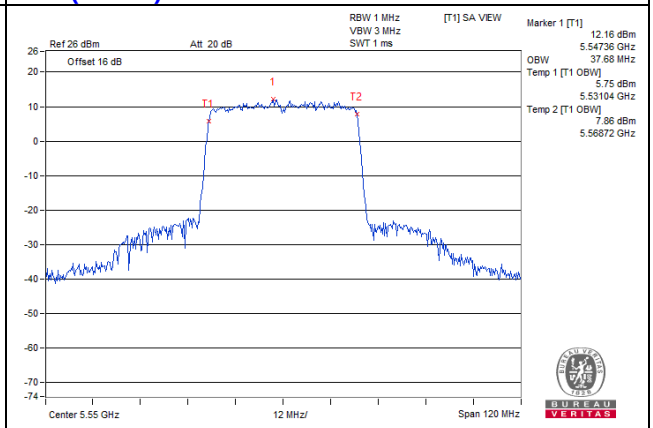


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

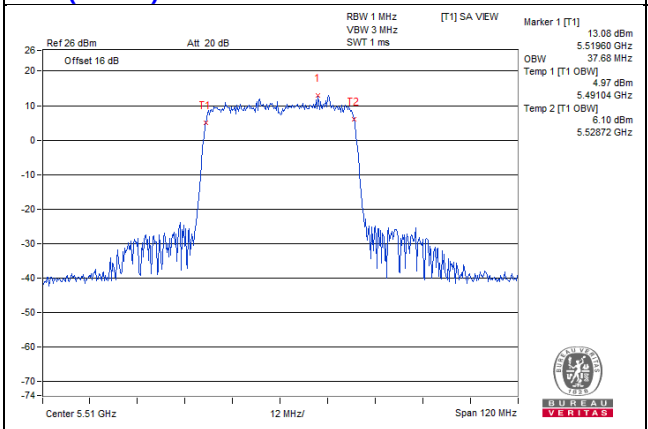
11ax (40MHz) 3S4T TxBF CH102 Ant1



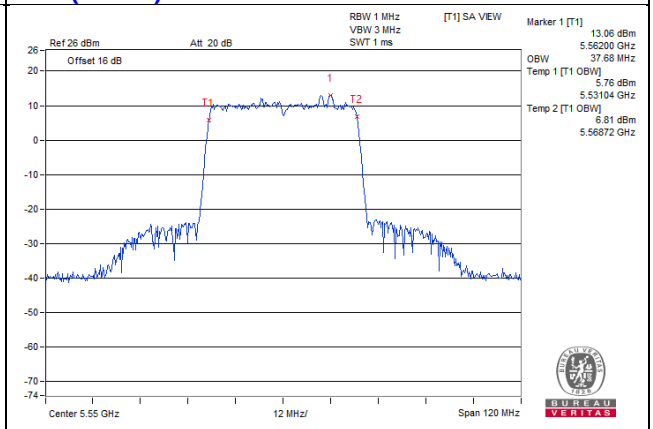
11ax (40MHz) 3S4T TxBF CH110 Ant1



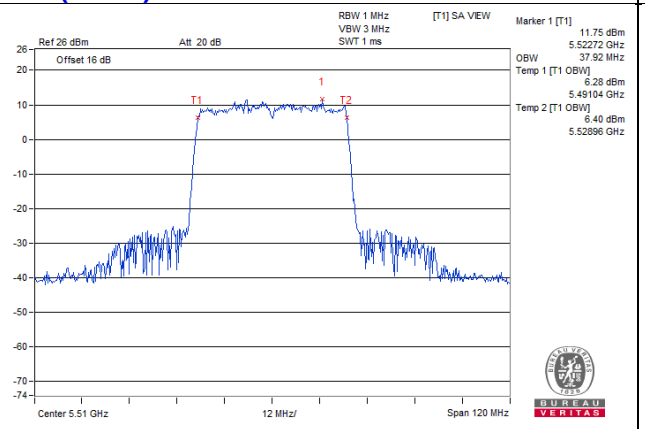
11ax (40MHz) 3S4T TxBF CH102 Ant2



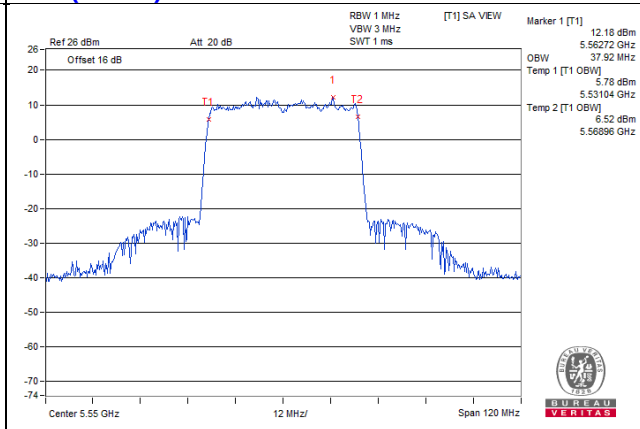
11ax (40MHz) 3S4T TxBF CH110 Ant2



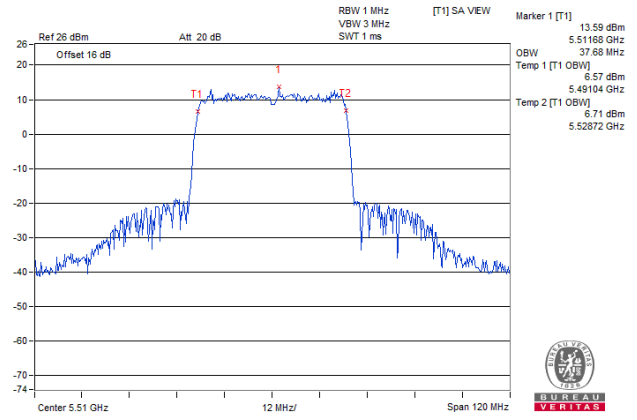
11ax (40MHz) 3S4T TxBF CH102 Ant3



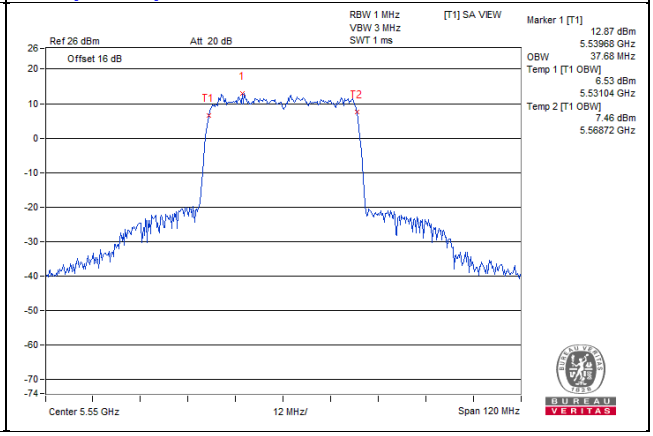
11ax (40MHz) 3S4T TxBF CH110 Ant3



11ax (40MHz) 3S4T TxBF CH102 Ant4

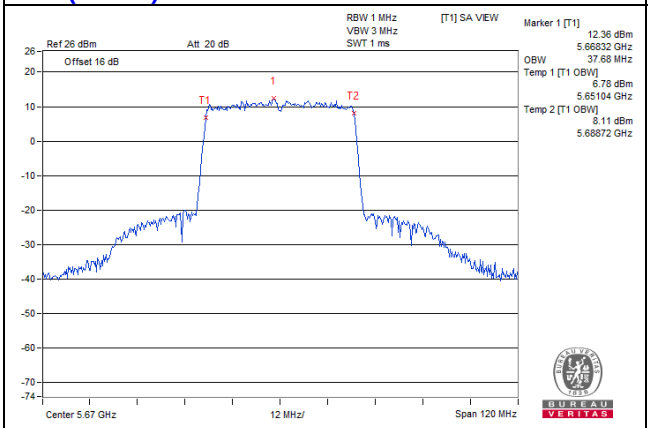


11ax (40MHz) 3S4T TxBF CH110 Ant4

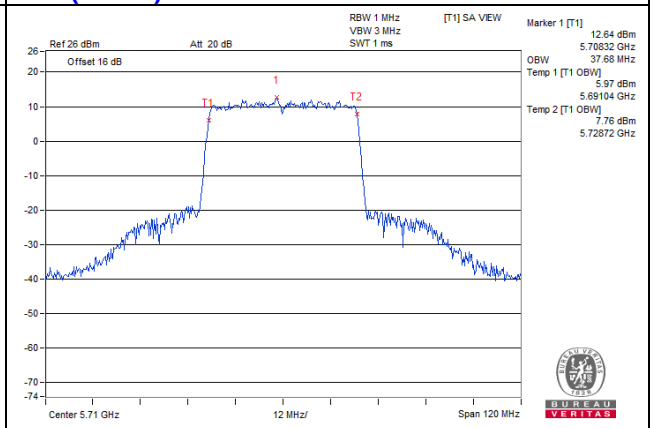


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

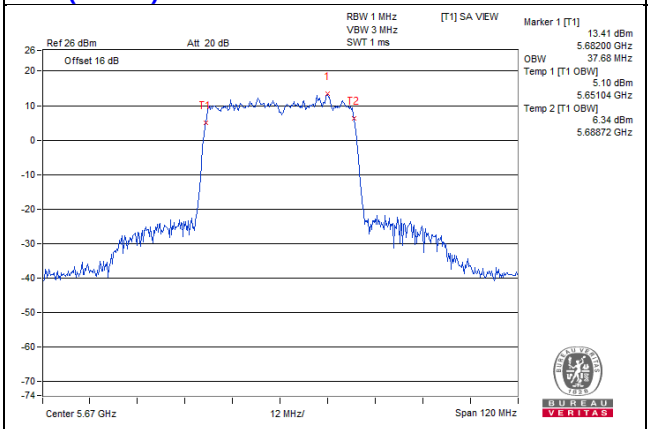
11ax (40MHz) 3S4T TxBF CH134 Ant1



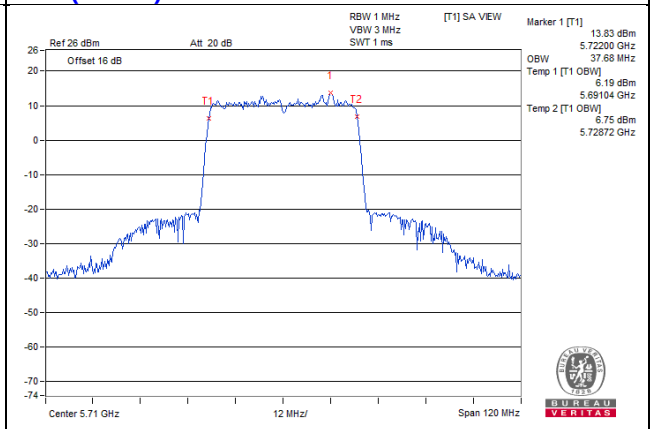
11ax (40MHz) 3S4T TxBF CH142 Ant1



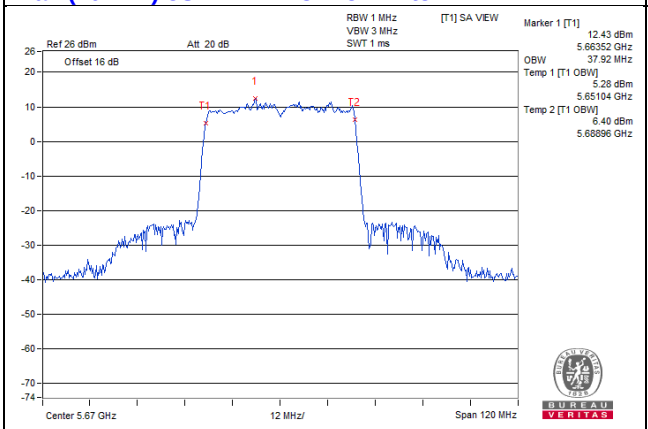
11ax (40MHz) 3S4T TxBF CH134 Ant2



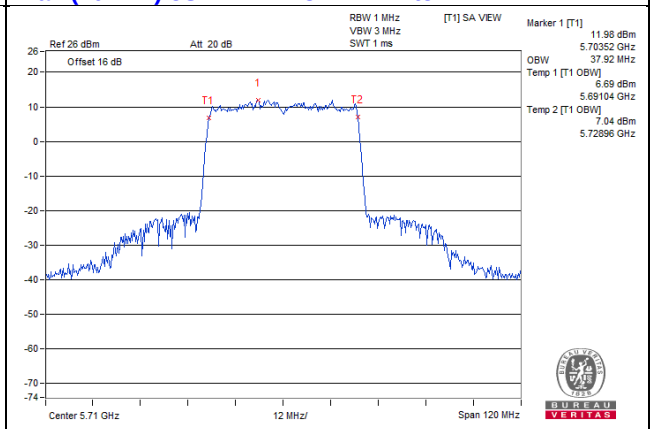
11ax (40MHz) 3S4T TxBF CH142 Ant2



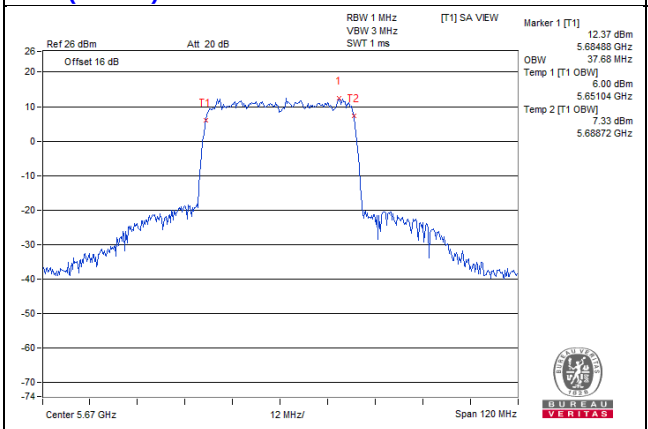
11ax (40MHz) 3S4T TxBF CH134 Ant3



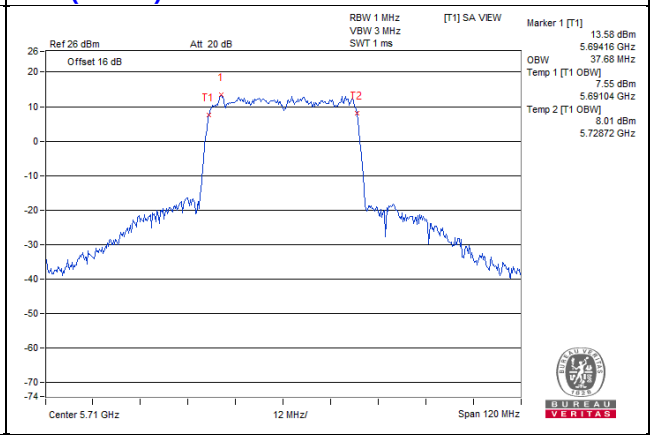
11ax (40MHz) 3S4T TxBF CH142 Ant3



11ax (40MHz) 3S4T TxBF CH134 Ant4

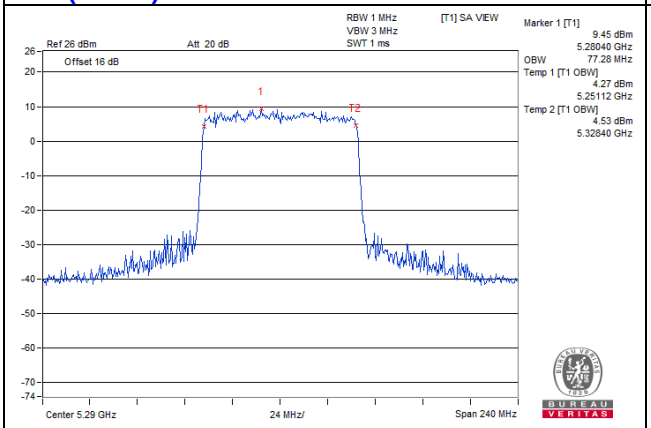


11ax (40MHz) 3S4T TxBF CH142 Ant4

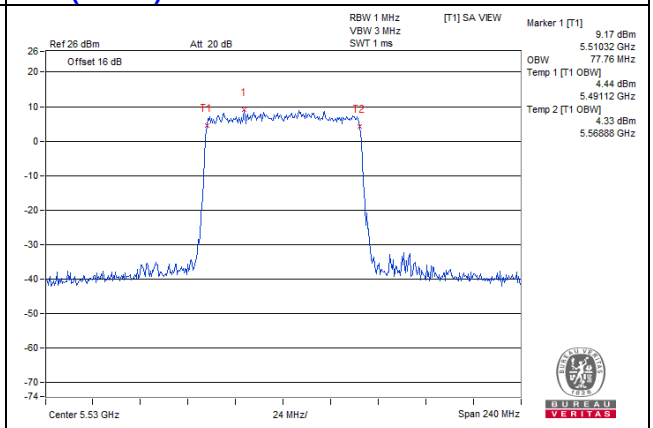


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

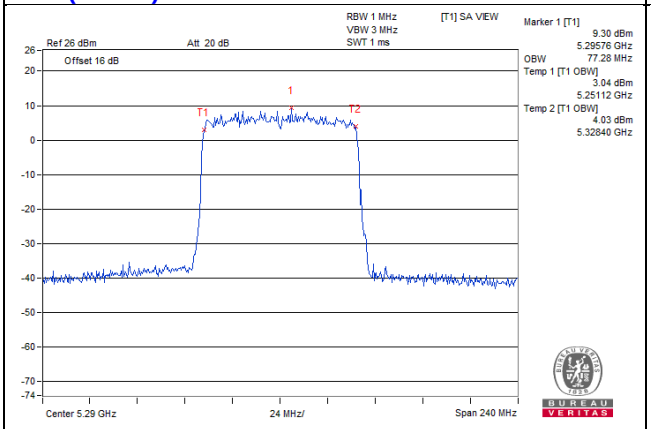
11ax (80MHz) 1S4T CDD CH58 Ant1



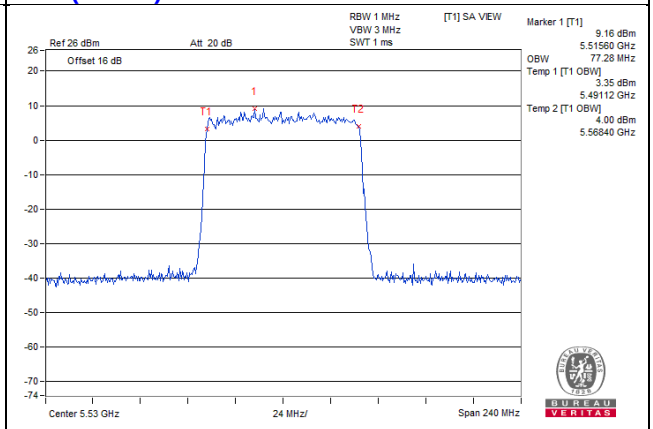
11ax (80MHz) 1S4T CDD CH106 Ant1



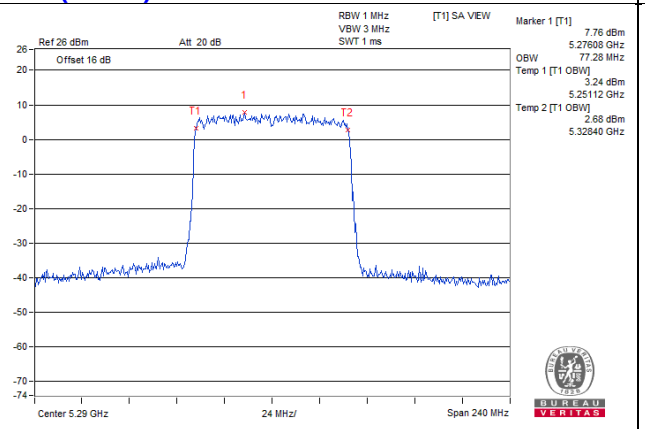
11ax (80MHz) 1S4T CDD CH58 Ant2



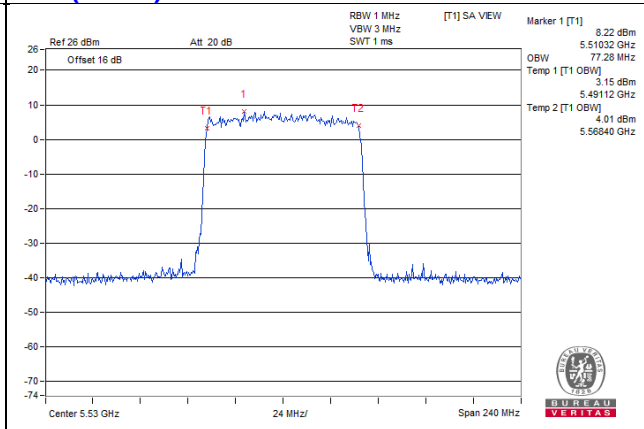
11ax (80MHz) 1S4T CDD CH106 Ant2



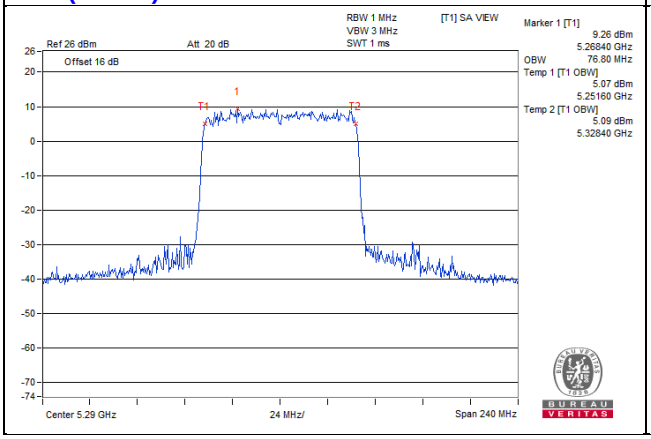
11ax (80MHz) 1S4T CDD CH58 Ant3



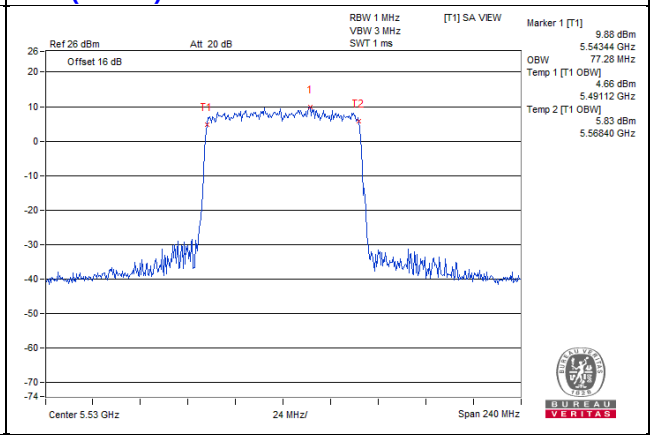
11ax (80MHz) 1S4T CDD CH106 Ant3



11ax (80MHz) 1S4T CDD CH58 Ant4

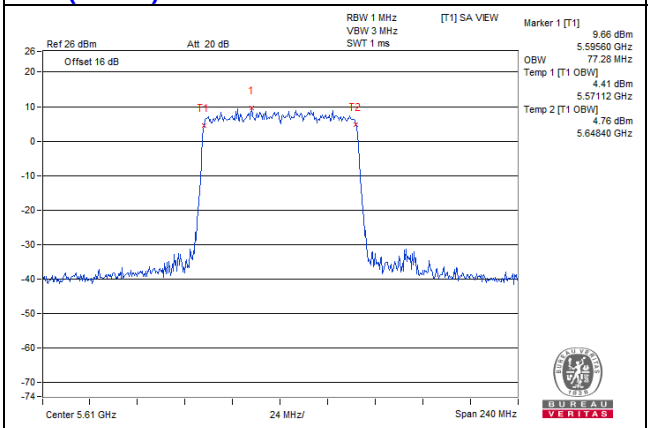


11ax (80MHz) 1S4T CDD CH106 Ant4

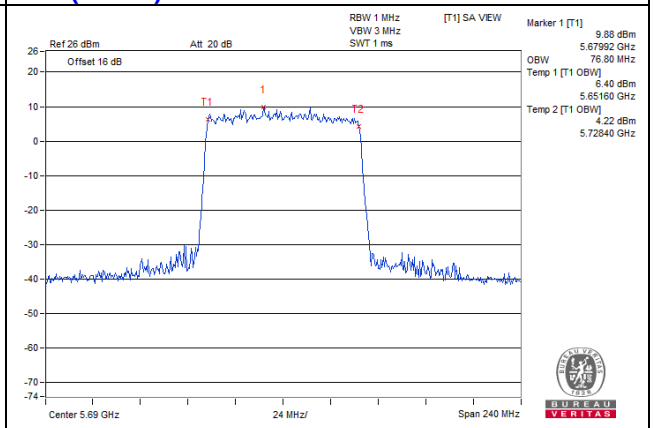


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

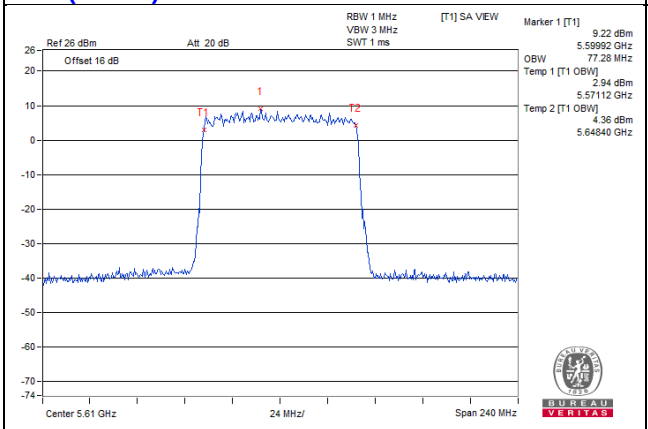
11ax (80MHz) 1S4T CDD CH122 Ant1



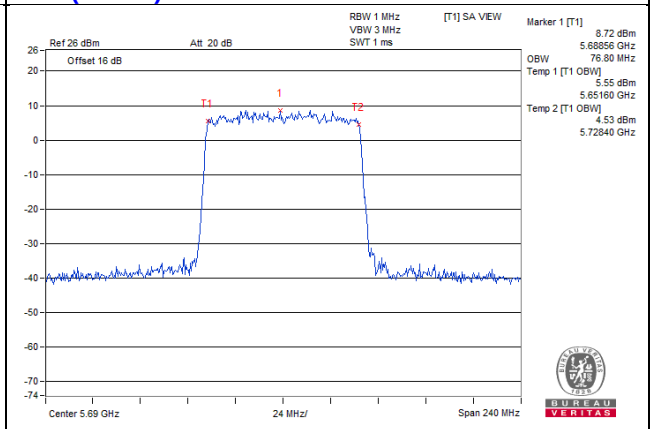
11ax (80MHz) 1S4T CDD CH138 Ant1



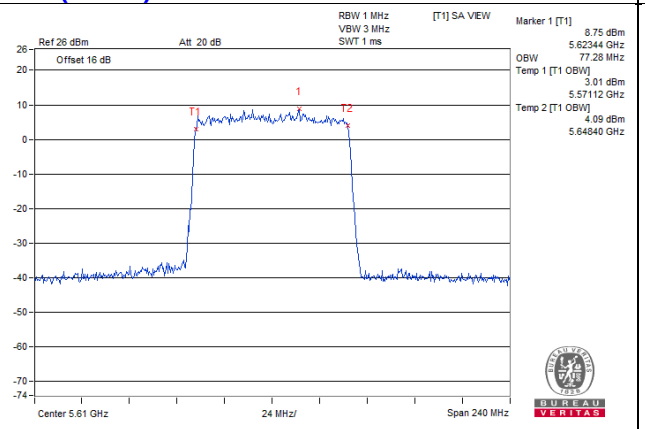
11ax (80MHz) 1S4T CDD CH122 Ant2



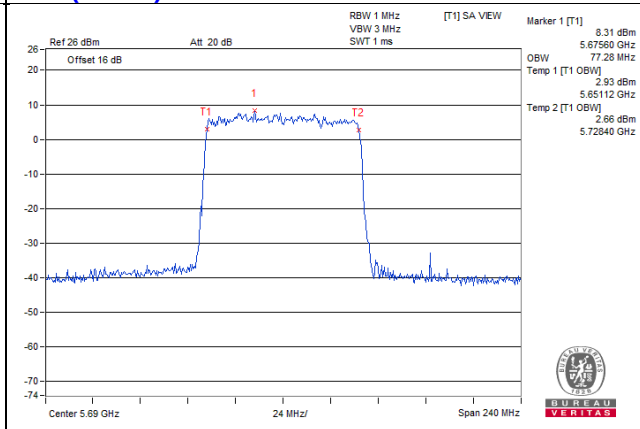
11ax (80MHz) 1S4T CDD CH138 Ant2



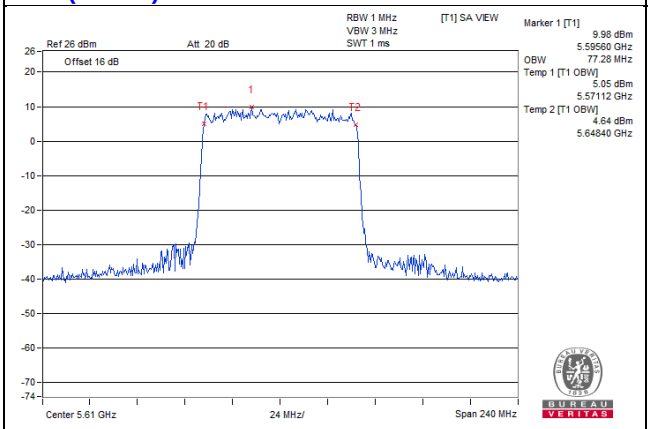
11ax (80MHz) 1S4T CDD CH122 Ant3



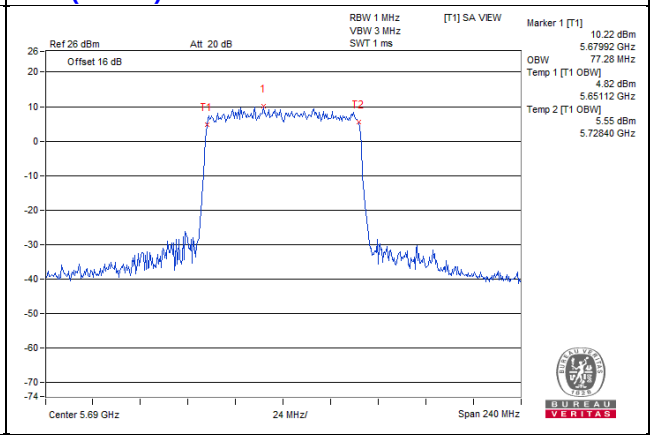
11ax (80MHz) 1S4T CDD CH138 Ant3



11ax (80MHz) 1S4T CDD CH122 Ant4

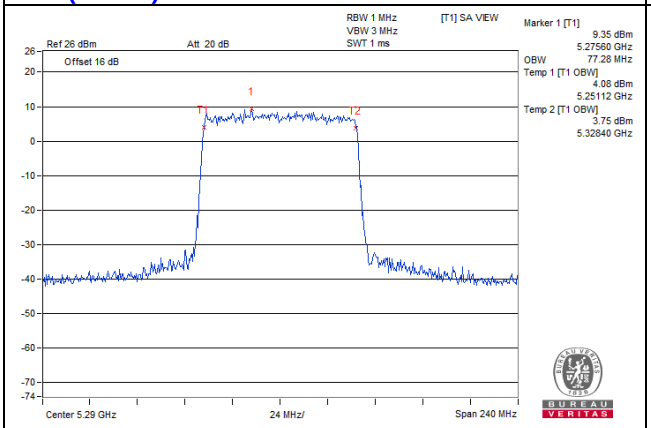


11ax (80MHz) 1S4T CDD CH138 Ant4

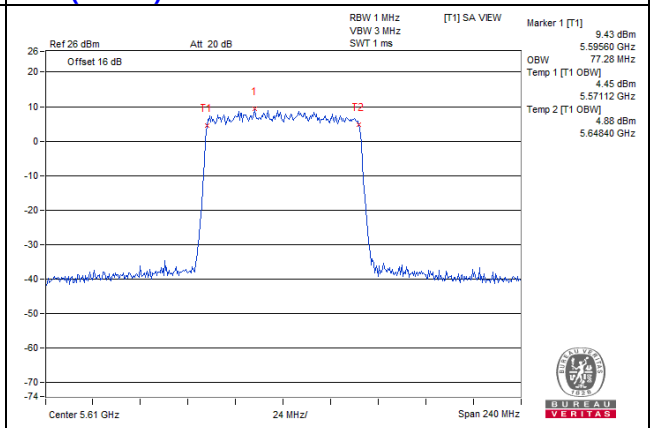


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

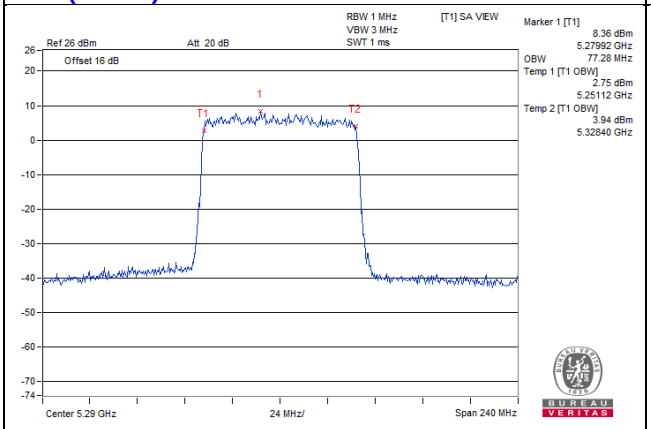
11ax (80MHz) 1S4T TxBF CH58 Ant1



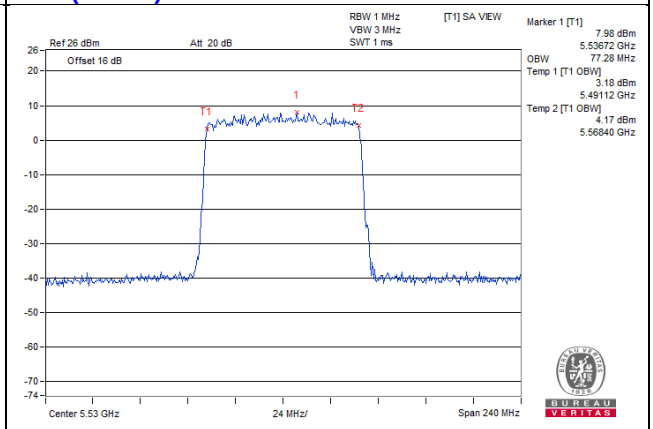
11ax (80MHz) 1S4T TxBF CH106 Ant1



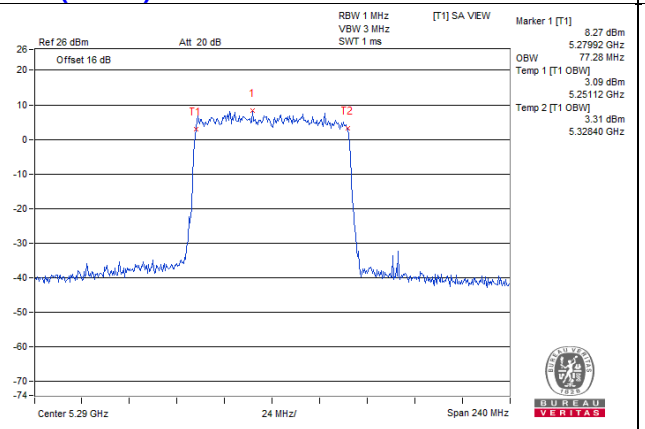
11ax (80MHz) 1S4T TxBF CH58 Ant2



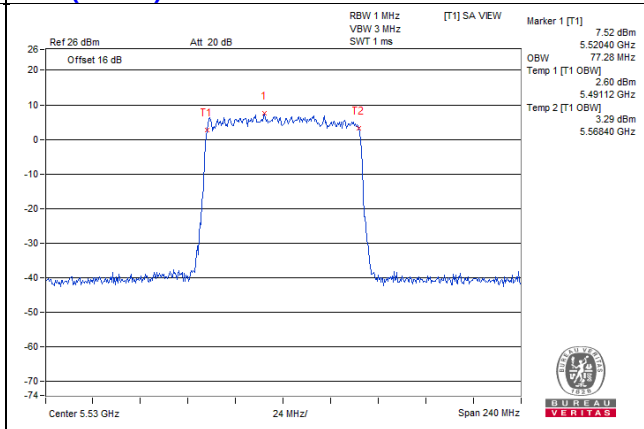
11ax (80MHz) 1S4T TxBF CH106 Ant2



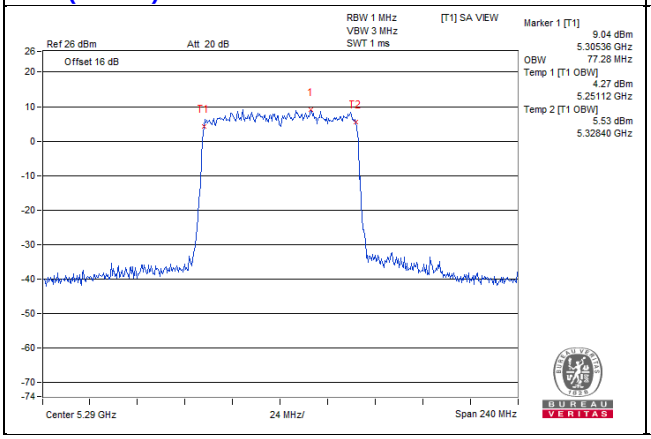
11ax (80MHz) 1S4T TxBF CH58 Ant3



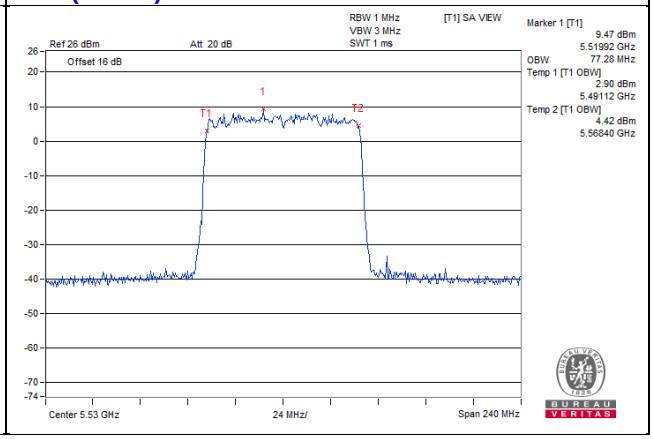
11ax (80MHz) 1S4T TxBF CH106 Ant3



11ax (80MHz) 1S4T TxBF CH58 Ant4

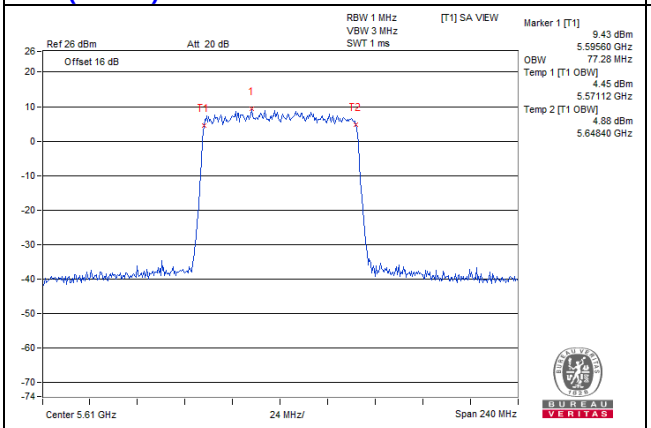


11ax (80MHz) 1S4T TxBF CH106 Ant4

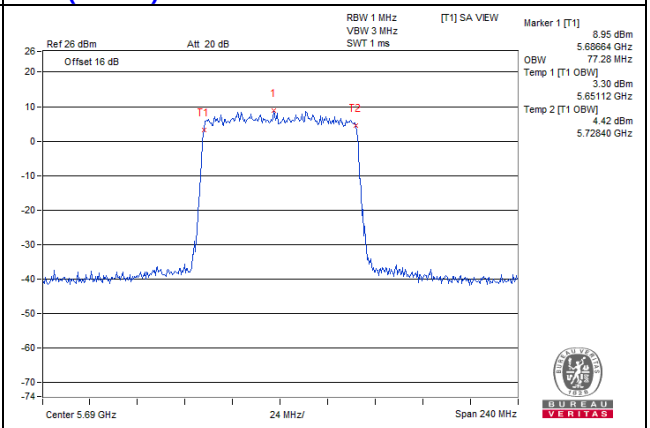


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

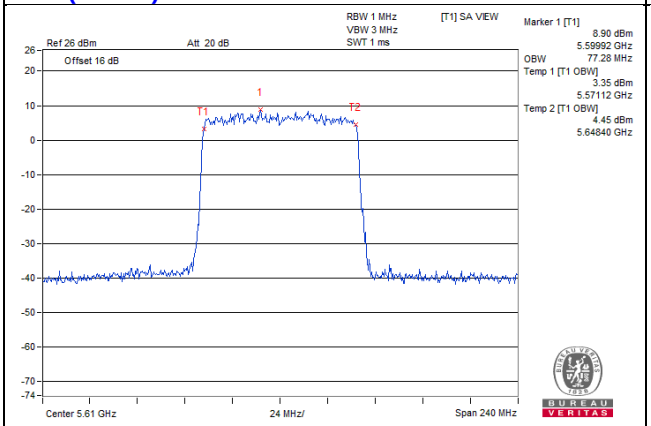
11ax (80MHz) 1S4T TxBF CH122 Ant1



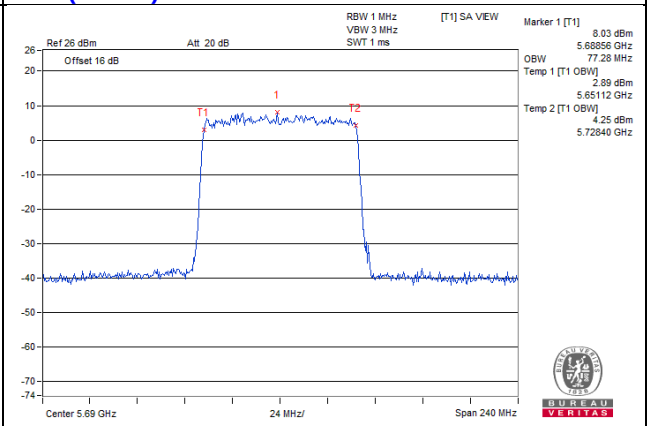
11ax (80MHz) 1S4T TxBF CH138 Ant1



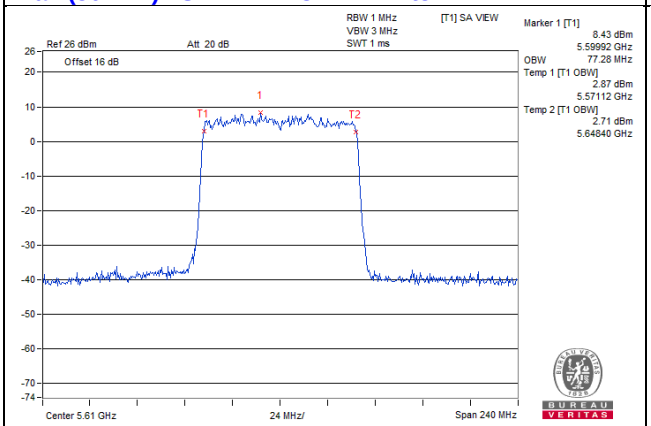
11ax (80MHz) 1S4T TxBF CH122 Ant2



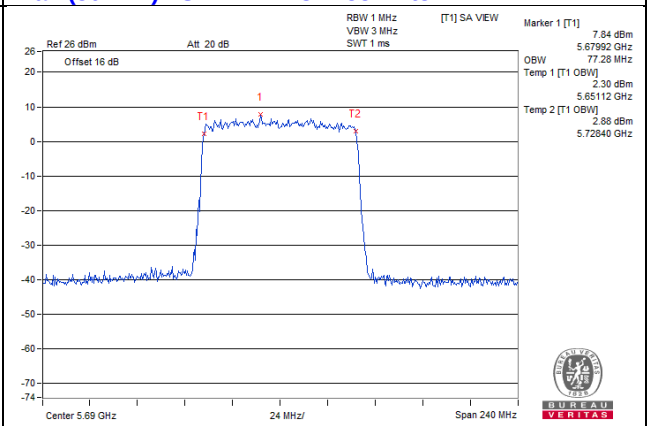
11ax (80MHz) 1S4T TxBF CH138 Ant2



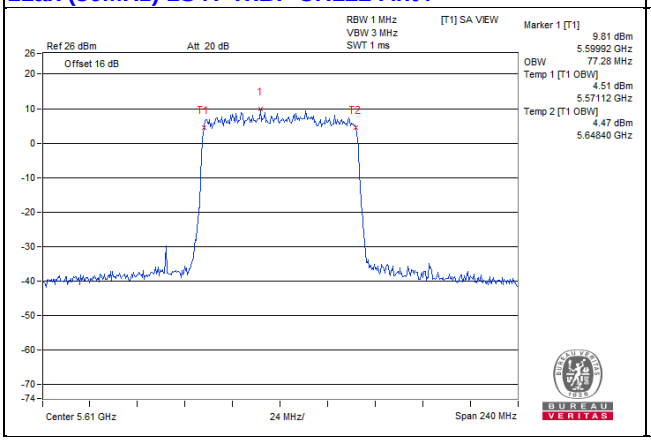
11ax (80MHz) 1S4T TxBF CH122 Ant3



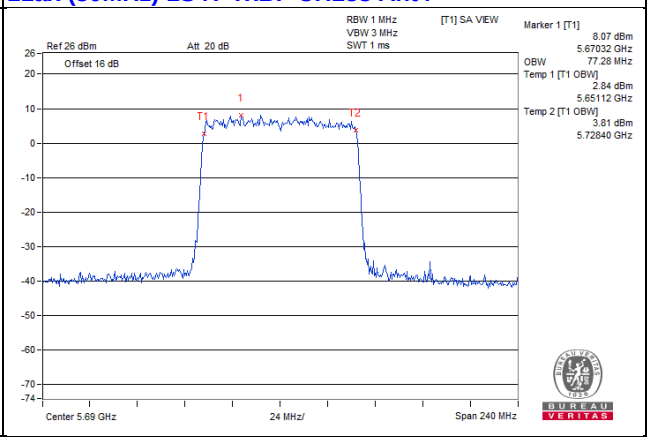
11ax (80MHz) 1S4T TxBF CH138 Ant3



11ax (80MHz) 1S4T TxBF CH122 Ant4

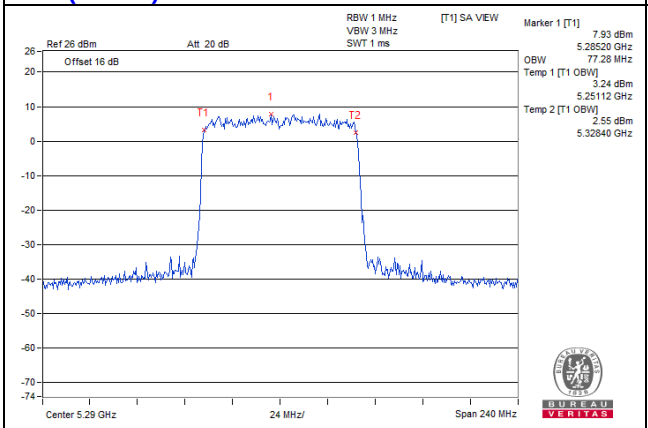


11ax (80MHz) 1S4T TxBF CH138 Ant4

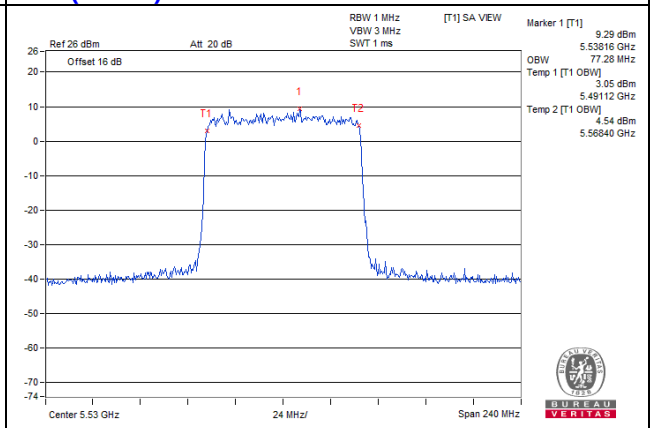


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

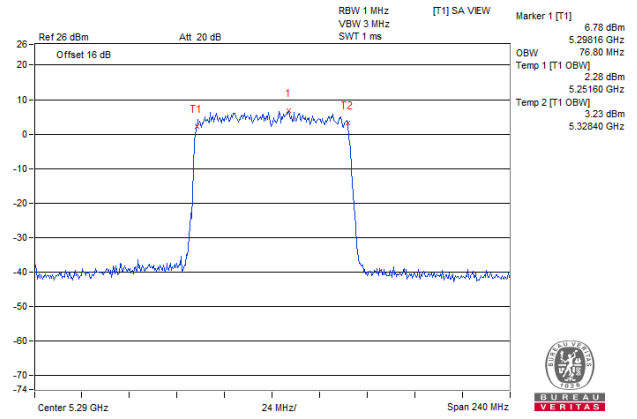
11ax (80MHz) 2S4T TxBF CH58 Ant1



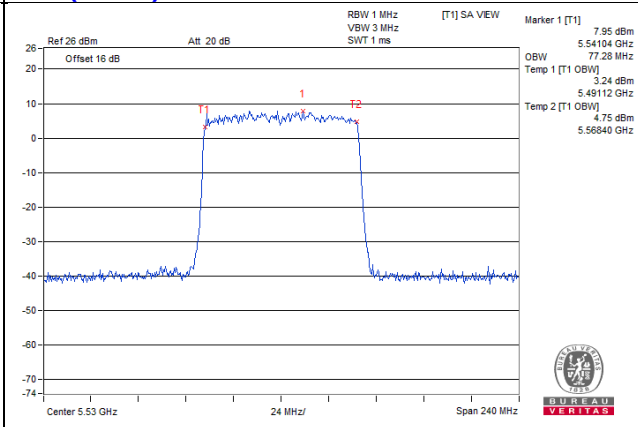
11ax (80MHz) 2S4T TxBF CH106 Ant1



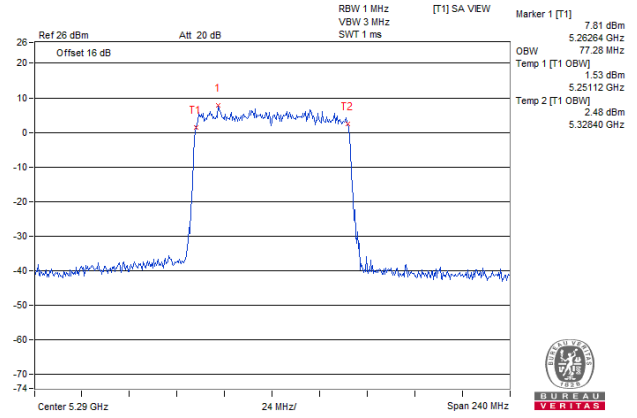
11ax (80MHz) 2S4T TxBF CH58 Ant2



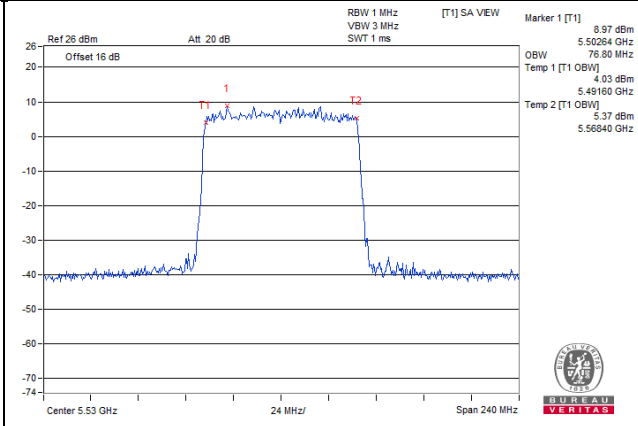
11ax (80MHz) 2S4T TxBF CH106 Ant2



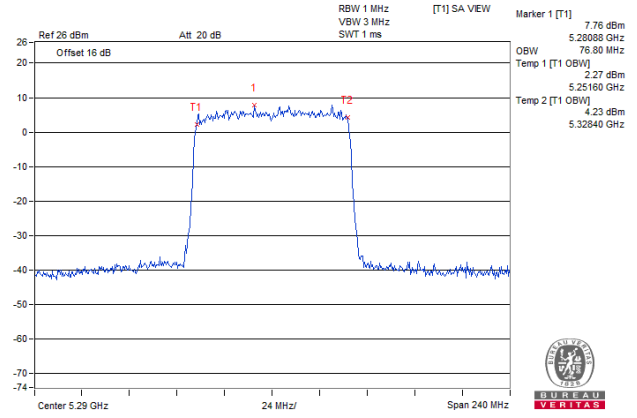
11ax (80MHz) 2S4T TxBF CH58 Ant3



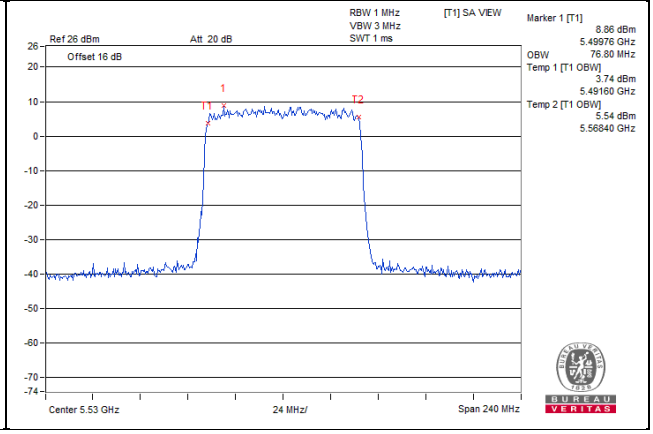
11ax (80MHz) 2S4T TxBF CH106 Ant3



11ax (80MHz) 2S4T TxBF CH58 Ant4

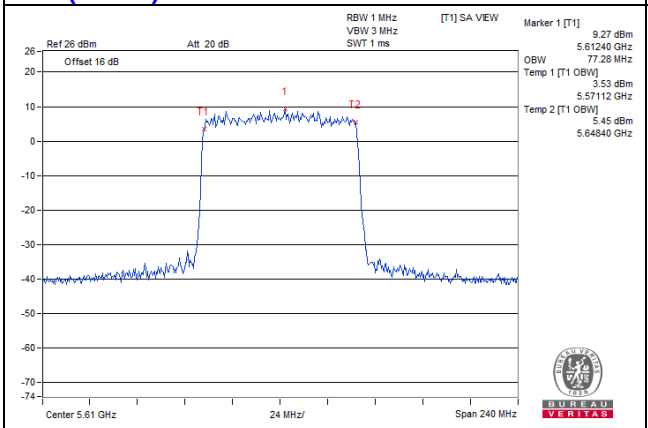


11ax (80MHz) 2S4T TxBF CH106 Ant4

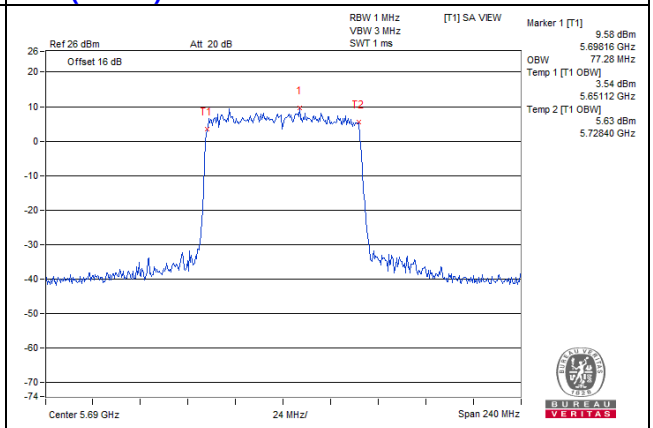


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

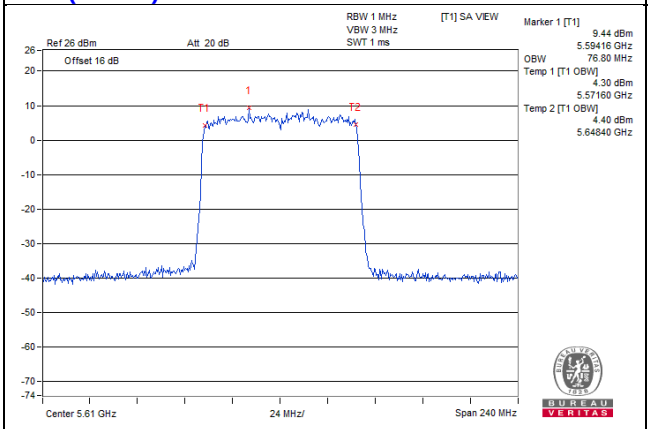
11ax (80MHz) 2S4T TxBF CH122 Ant1



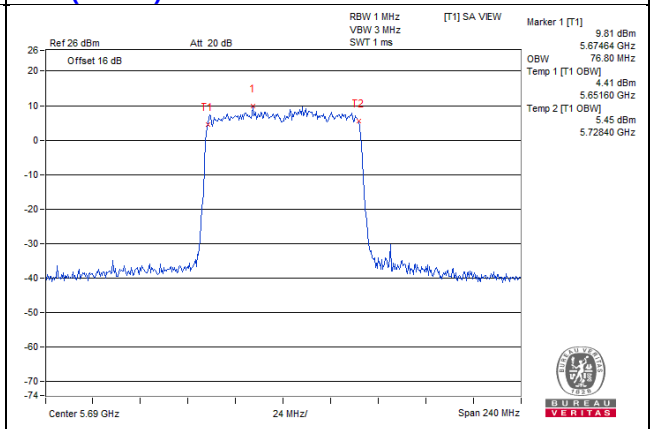
11ax (80MHz) 2S4T TxBF CH138 Ant1



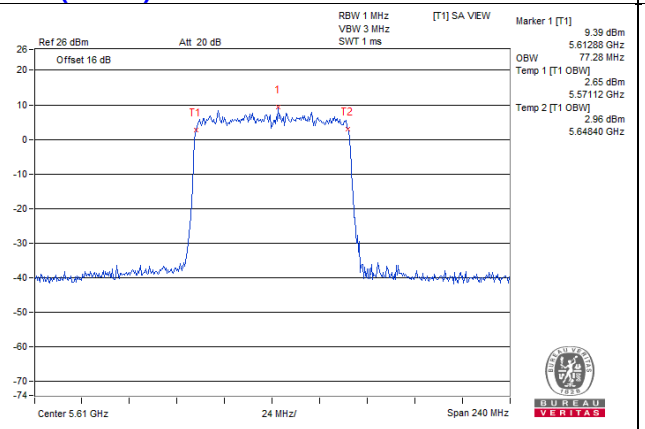
11ax (80MHz) 2S4T TxBF CH122 Ant2



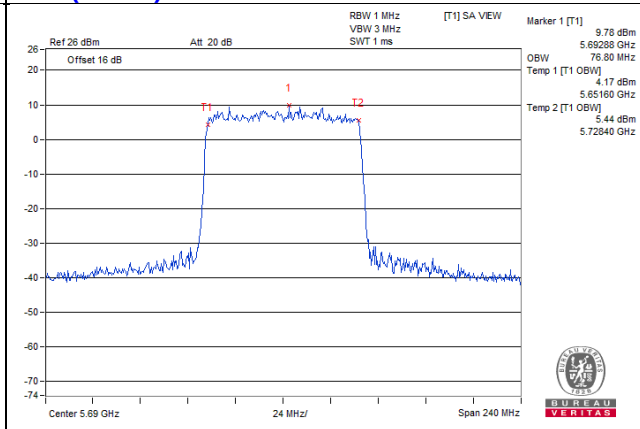
11ax (80MHz) 2S4T TxBF CH138 Ant2



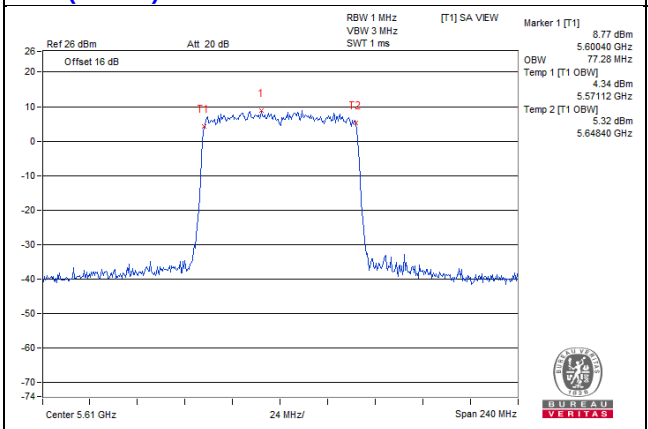
11ax (80MHz) 2S4T TxBF CH122 Ant3



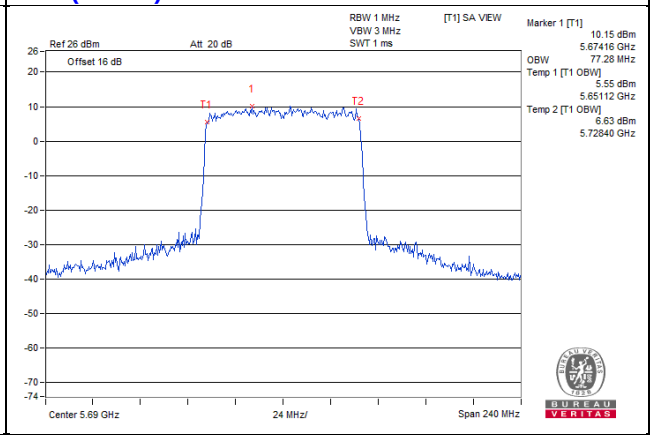
11ax (80MHz) 2S4T TxBF CH138 Ant3



11ax (80MHz) 2S4T TxBF CH122 Ant4

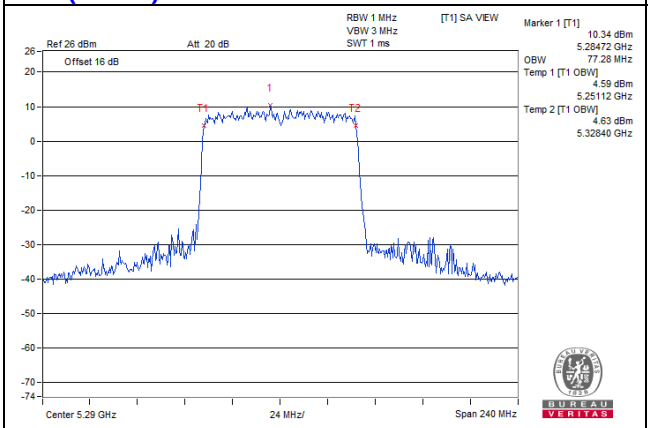


11ax (80MHz) 2S4T TxBF CH138 Ant4

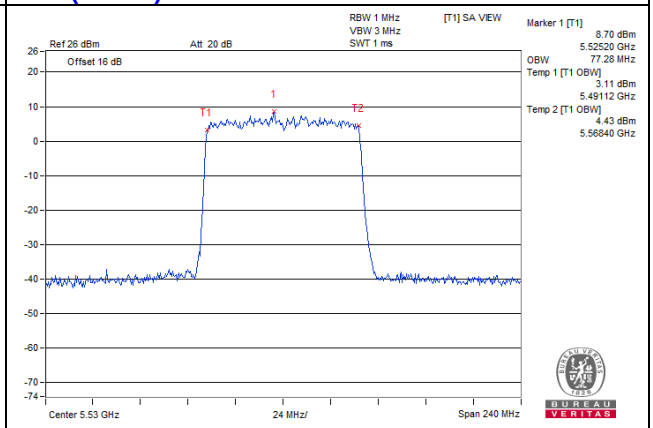


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

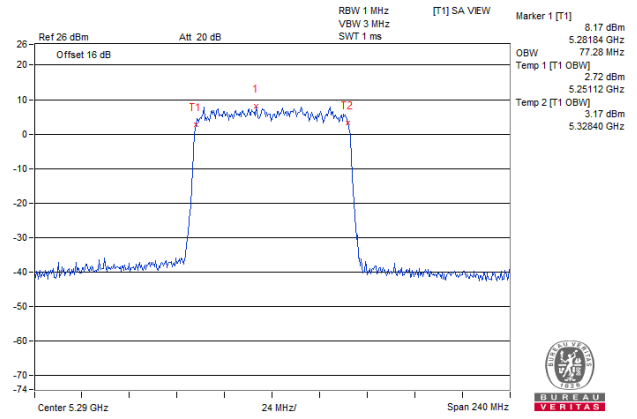
11ax (80MHz) 3S4T TxBF CH58 Ant1



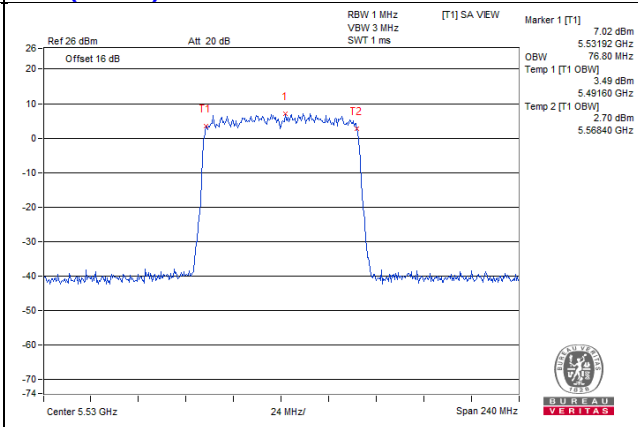
11ax (80MHz) 3S4T TxBF CH106 Ant1



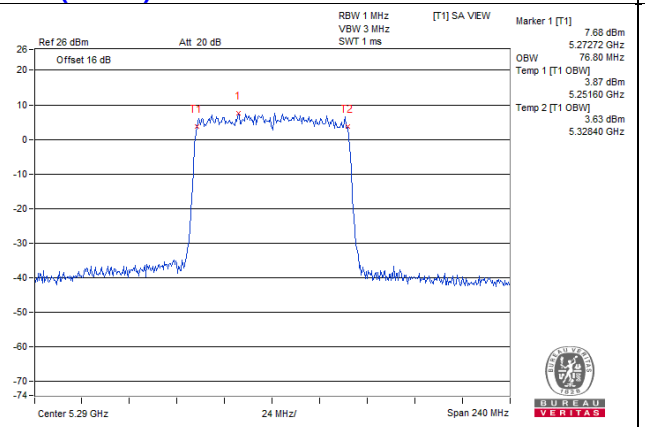
11ax (80MHz) 3S4T TxBF CH58 Ant2



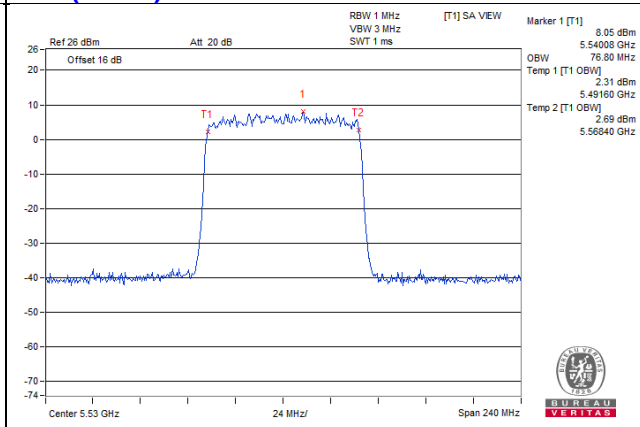
11ax (80MHz) 3S4T TxBF CH106 Ant2



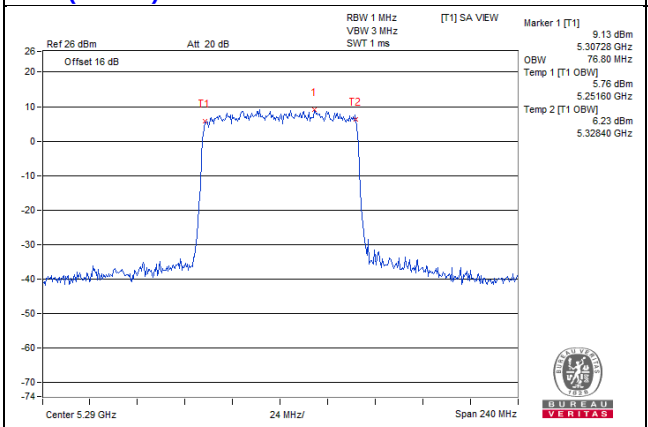
11ax (80MHz) 3S4T TxBF CH58 Ant3



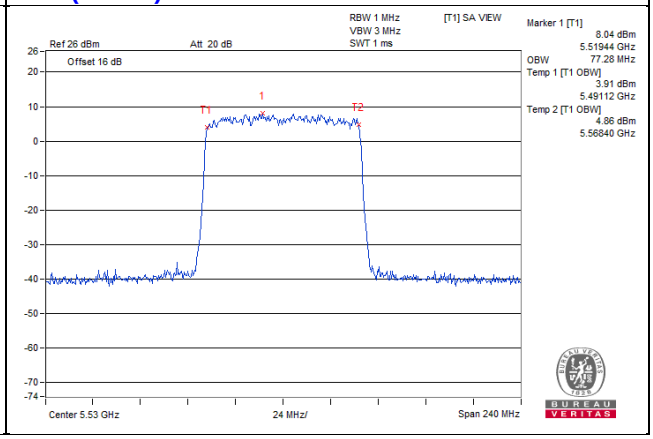
11ax (80MHz) 3S4T TxBF CH106 Ant3



11ax (80MHz) 3S4T TxBF CH58 Ant4

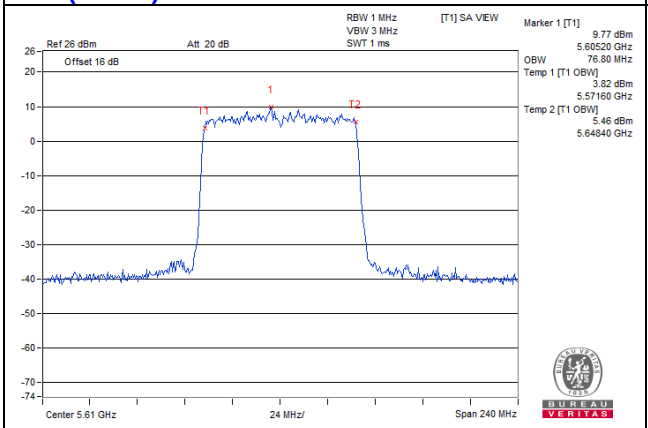


11ax (80MHz) 3S4T TxBF CH106 Ant4

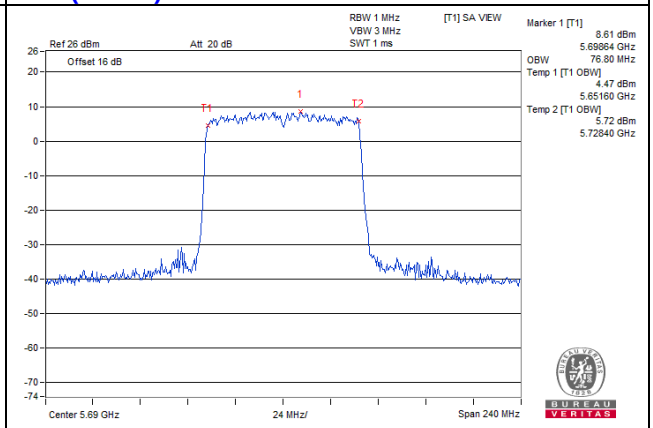


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

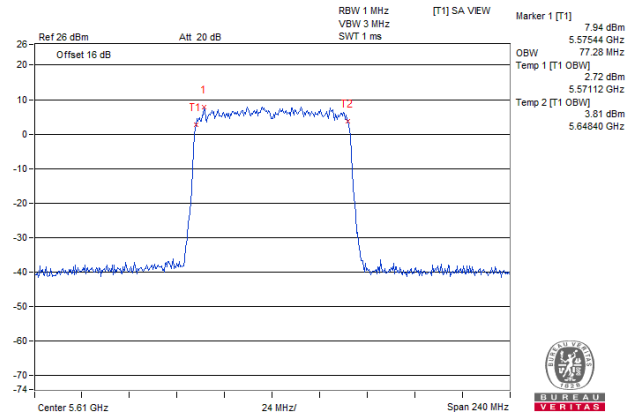
11ax (80MHz) 3S4T TxBF CH122 Ant1



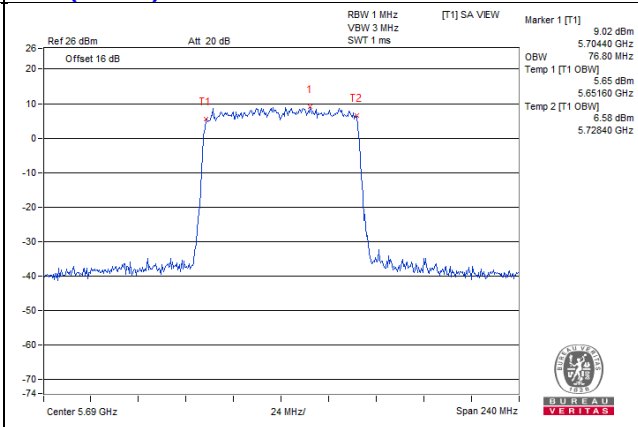
11ax (80MHz) 3S4T TxBF CH138 Ant1



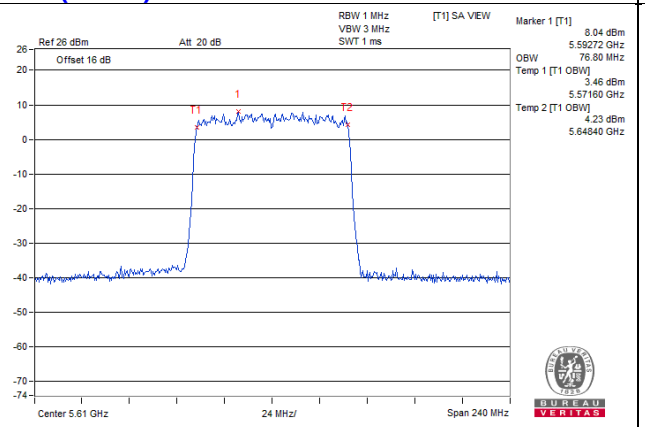
11ax (80MHz) 3S4T TxBF CH122 Ant2



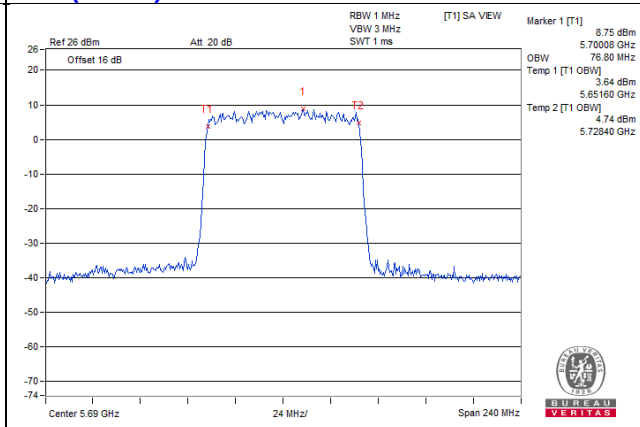
11ax (80MHz) 3S4T TxBF CH138 Ant2



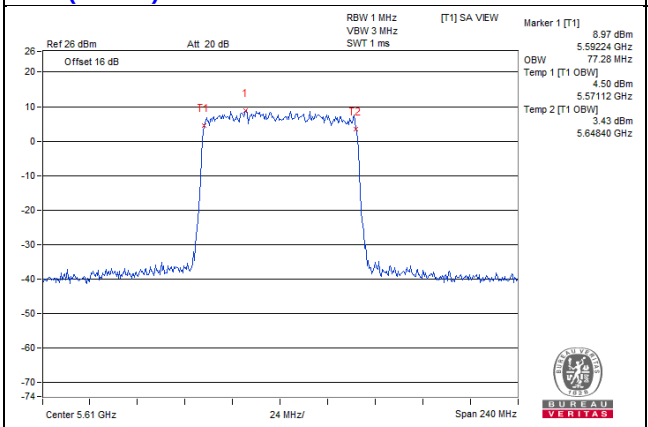
11ax (80MHz) 3S4T TxBF CH122 Ant3



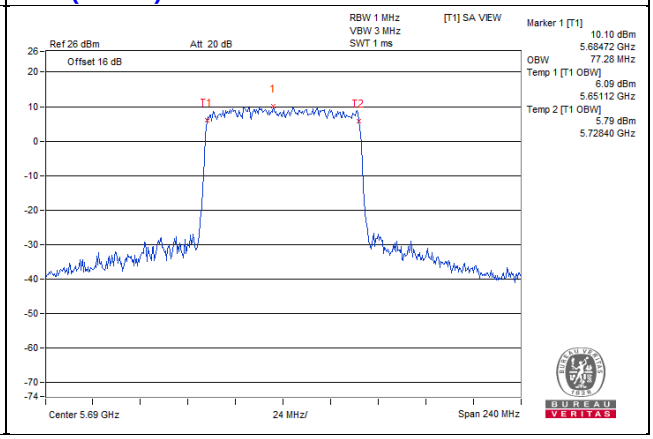
11ax (80MHz) 3S4T TxBF CH138 Ant3



11ax (80MHz) 3S4T TxBF CH122 Ant4

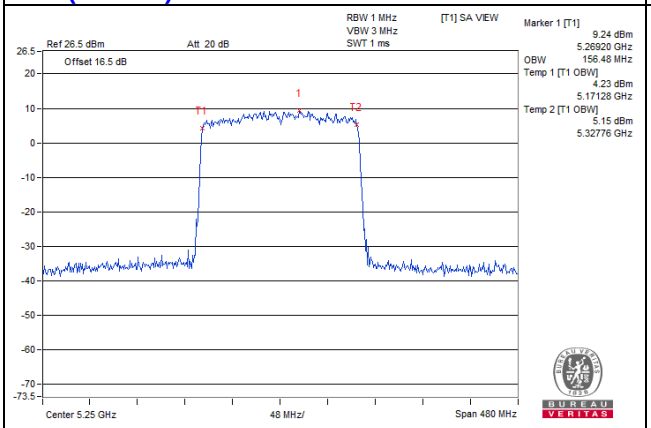


11ax (80MHz) 3S4T TxBF CH138 Ant4

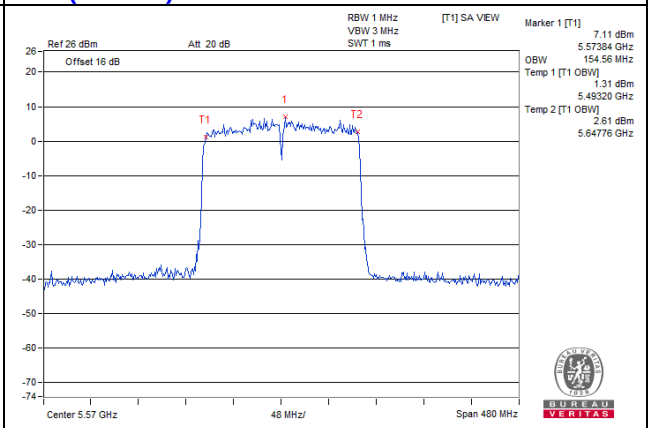


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

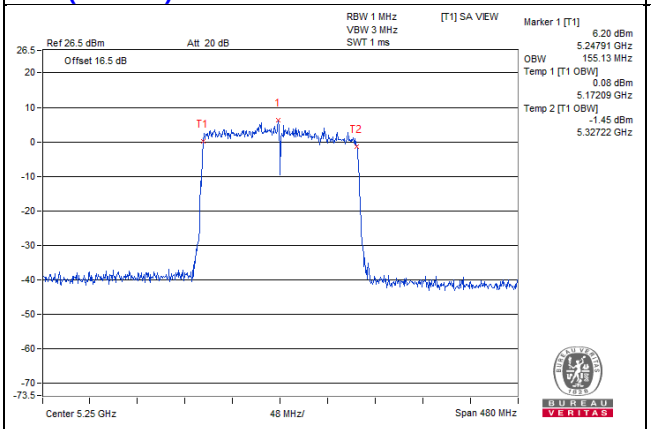
11ax (160MHz) 1S4T CDD CH50 Ant1



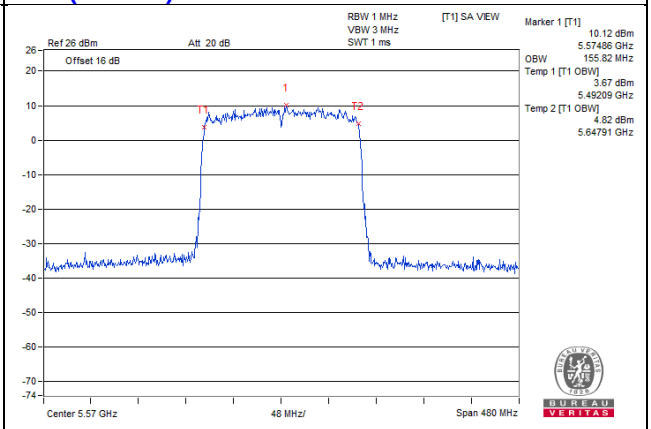
11ax (160MHz) 1S4T CDD CH114 Ant1



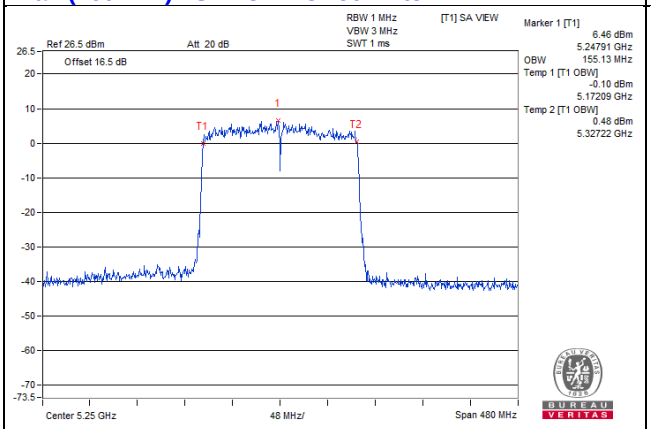
11ax (160MHz) 1S4T CDD CH50 Ant2



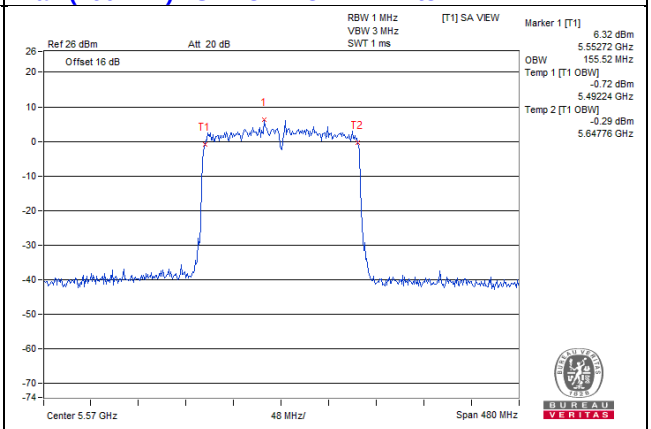
11ax (160MHz) 1S4T CDD CH114 Ant2



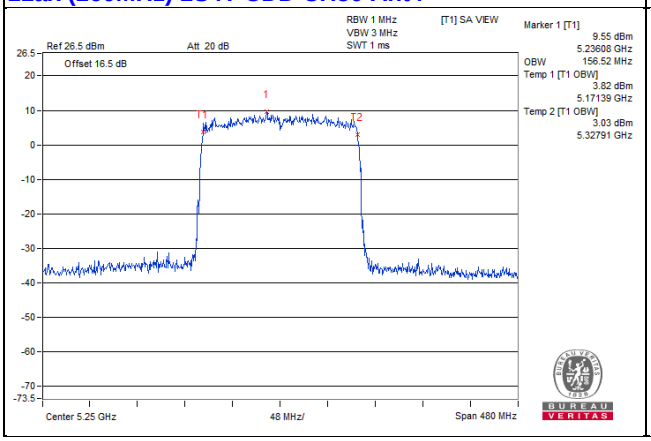
11ax (160MHz) 1S4T CDD CH50 Ant3



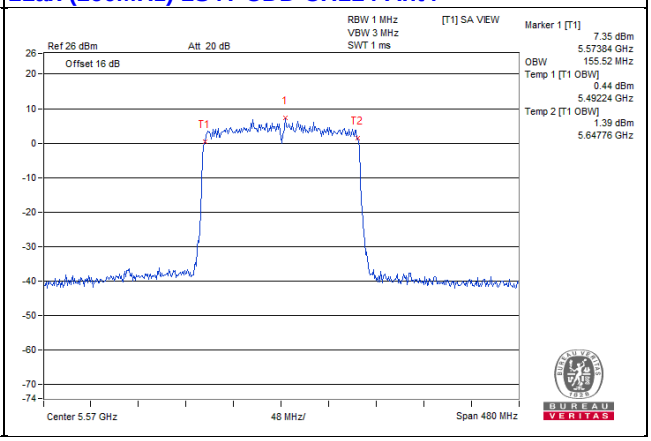
11ax (160MHz) 1S4T CDD CH114 Ant3



11ax (160MHz) 1S4T CDD CH50 Ant4

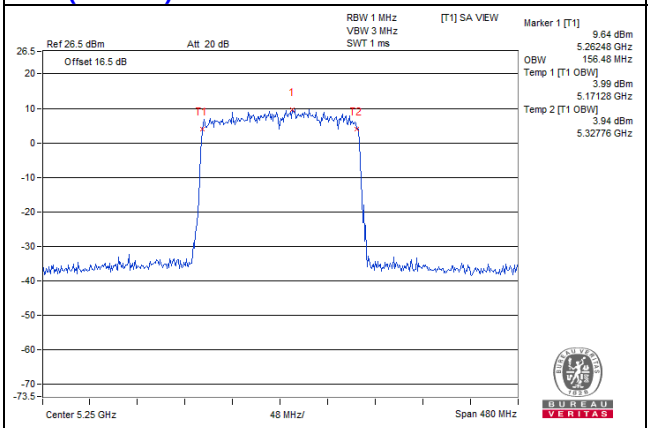


11ax (160MHz) 1S4T CDD CH114 Ant4

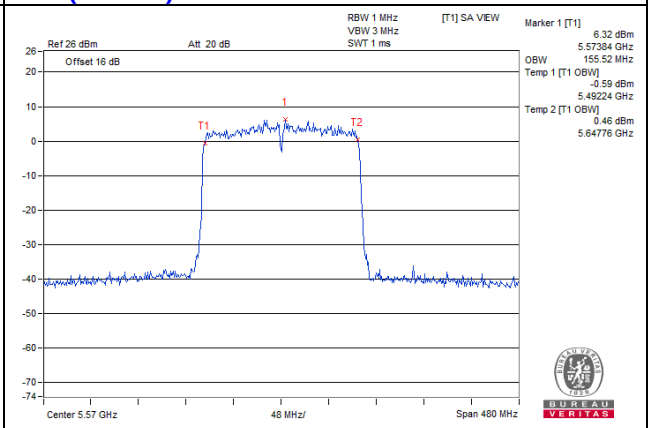


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

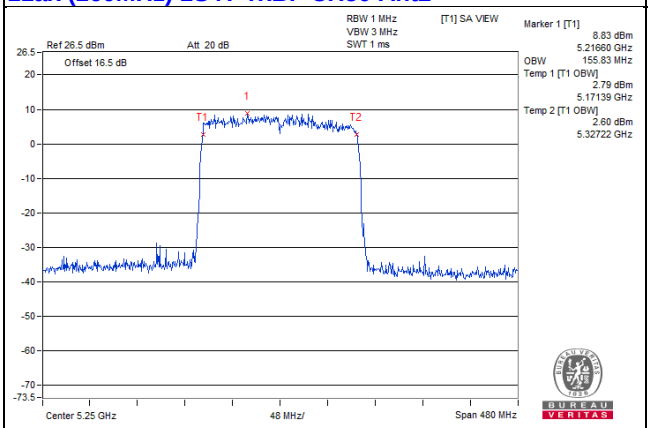
11ax (160MHz) 1S4T TxBF CH50 Ant1



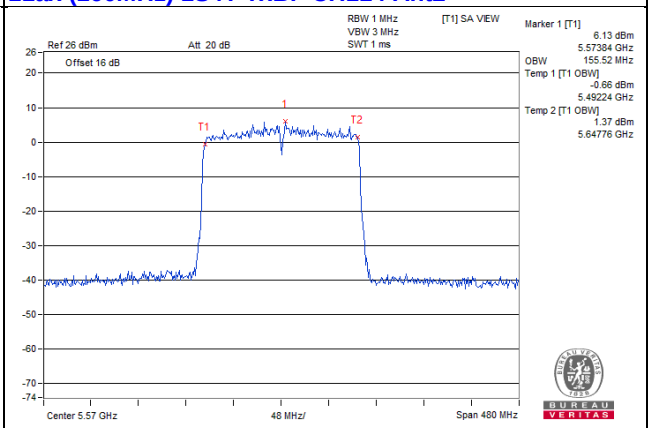
11ax (160MHz) 1S4T TxBF CH114 Ant1



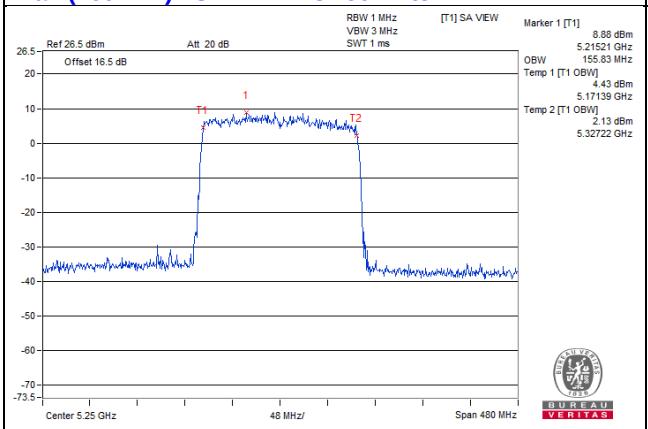
11ax (160MHz) 1S4T TxBF CH50 Ant2



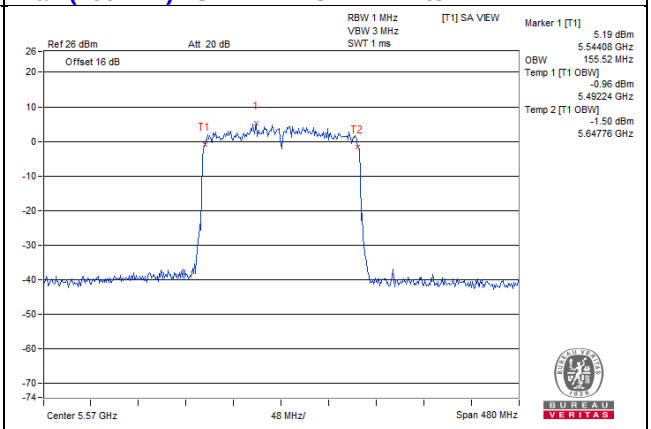
11ax (160MHz) 1S4T TxBF CH114 Ant2



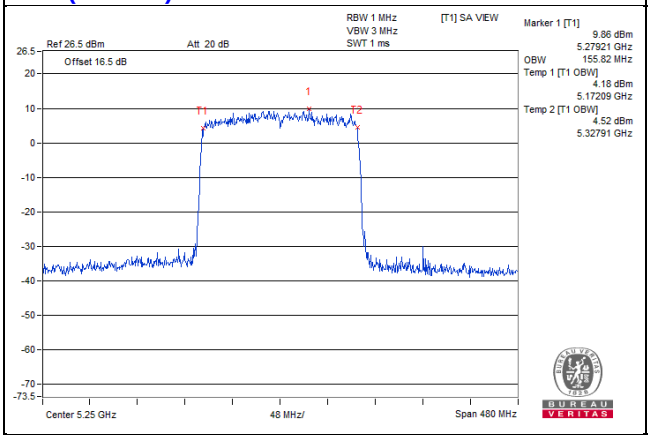
11ax (160MHz) 1S4T TxBF CH50 Ant3



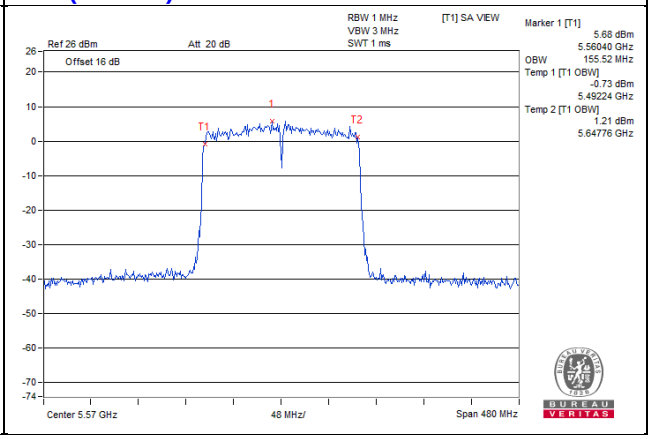
11ax (160MHz) 1S4T TxBF CH114 Ant3



11ax (160MHz) 1S4T TxBF CH50 Ant4

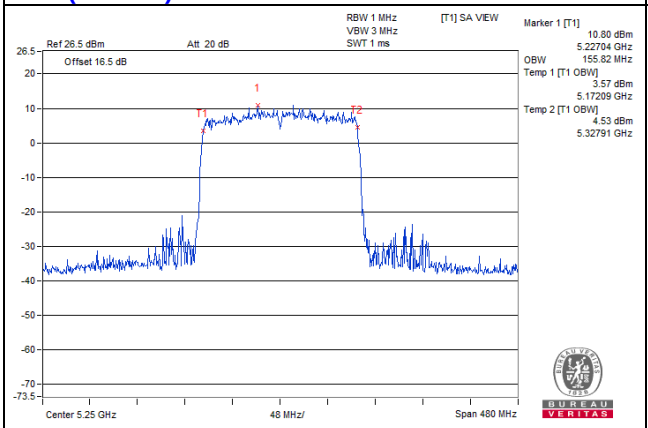


11ax (160MHz) 1S4T TxBF CH114 Ant4

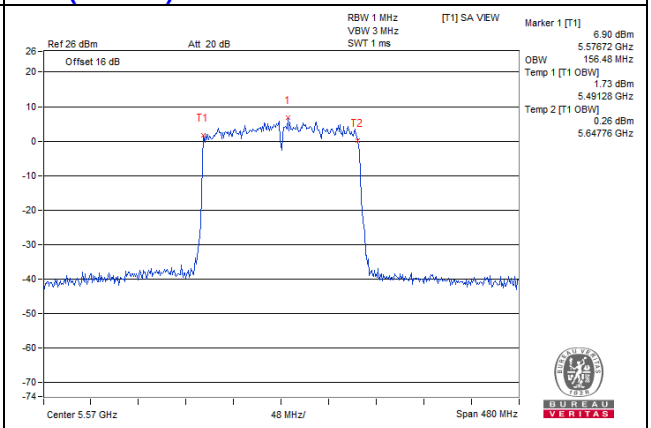


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

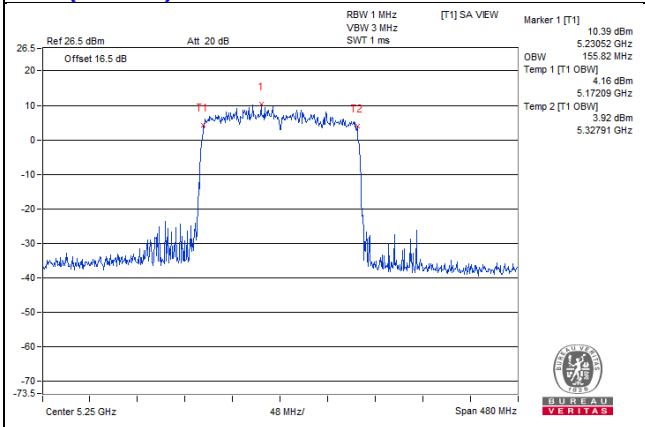
11ax (160MHz) 2S4T TxBF CH50 Ant1



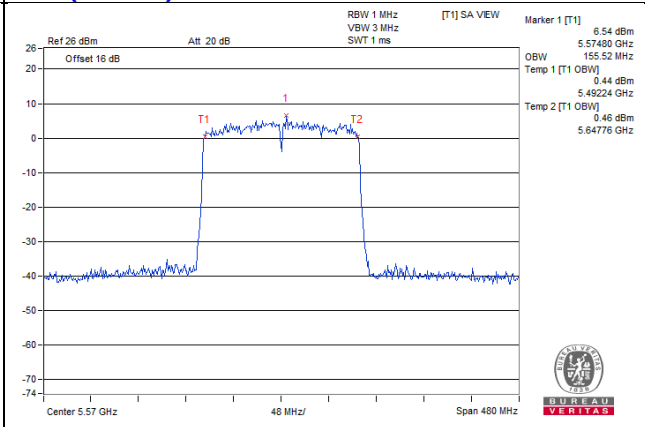
11ax (160MHz) 2S4T TxBF CH114 Ant1



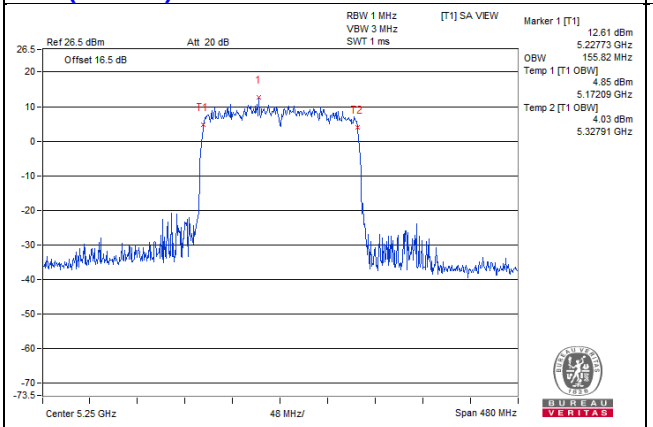
11ax (160MHz) 2S4T TxBF CH50 Ant2



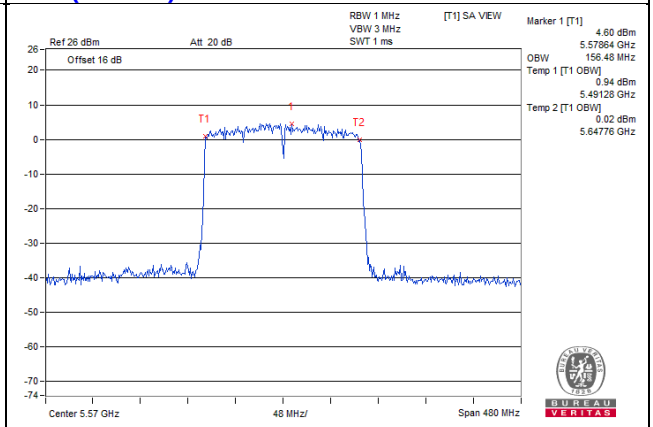
11ax (160MHz) 2S4T TxBF CH114 Ant2



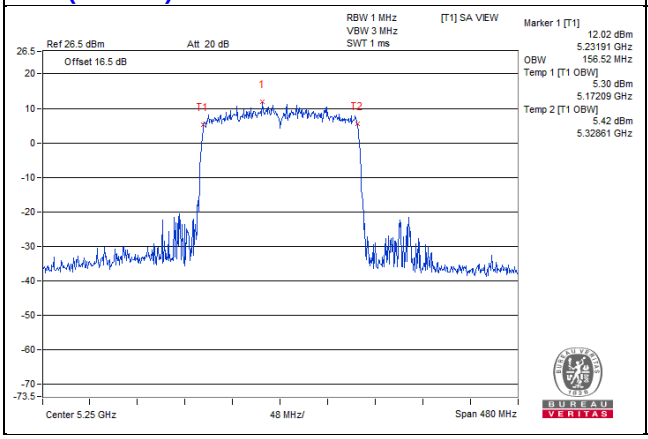
11ax (160MHz) 2S4T TxBF CH50 Ant3



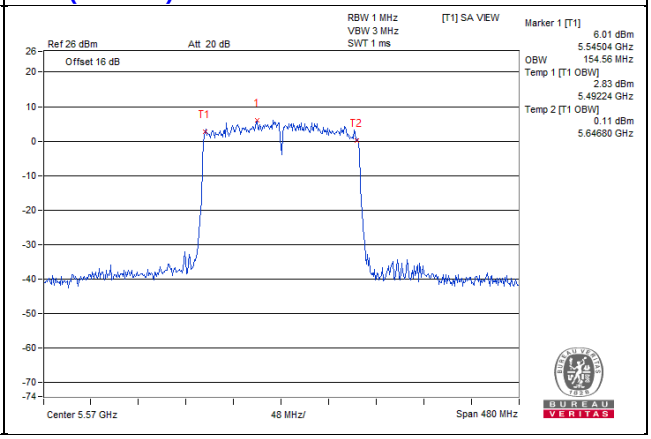
11ax (160MHz) 2S4T TxBF CH114 Ant3



11ax (160MHz) 2S4T TxBF CH50 Ant4

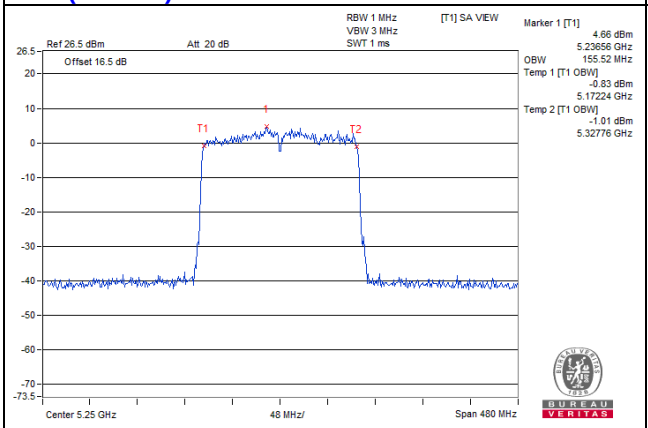


11ax (160MHz) 2S4T TxBF CH114 Ant4

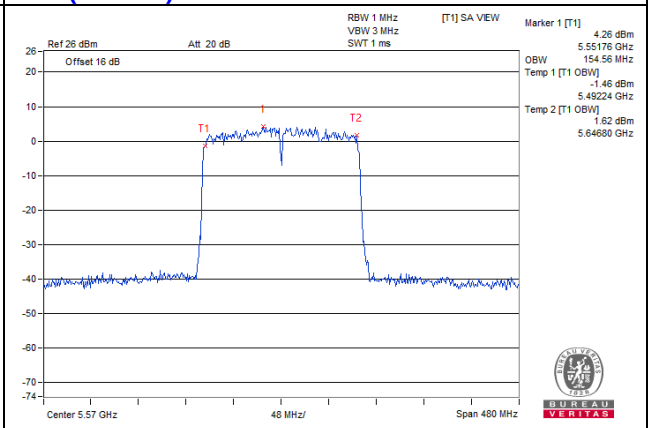


99% OCCUPIED BANDWIDTH SPECTRUM PLOT

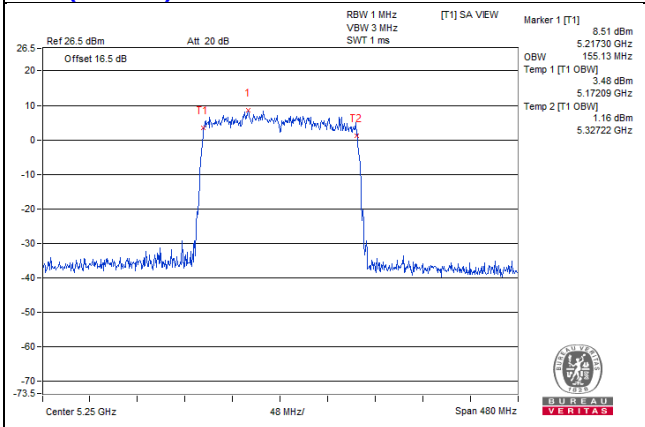
11ax (160MHz) 3S4T TxBF CH50 Ant1



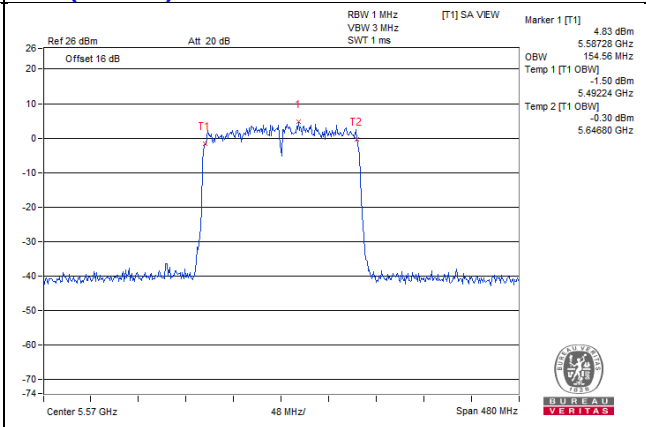
11ax (160MHz) 3S4T TxBF CH114 Ant1



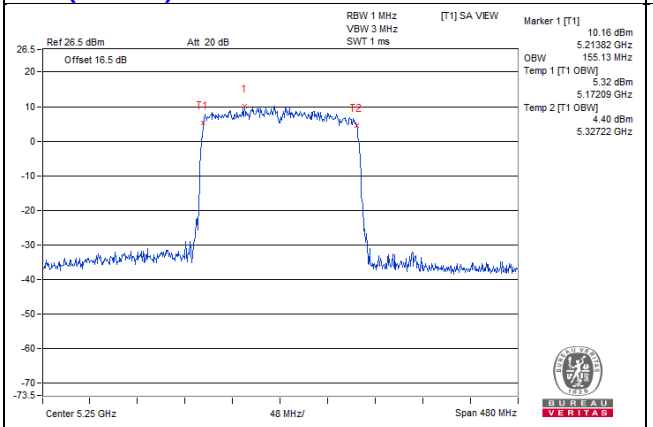
11ax (160MHz) 3S4T TxBF CH50 Ant2



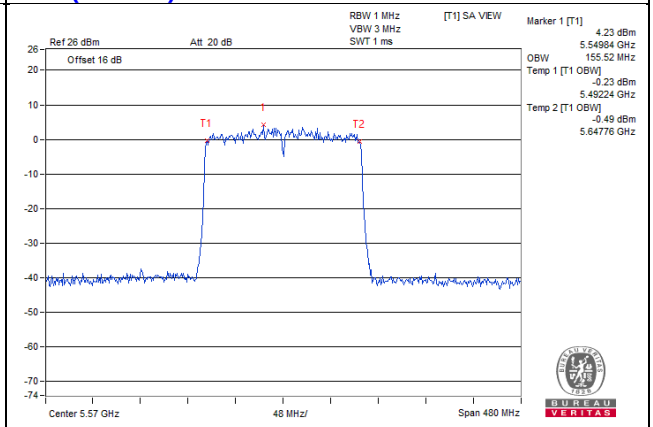
11ax (160MHz) 3S4T TxBF CH114 Ant2



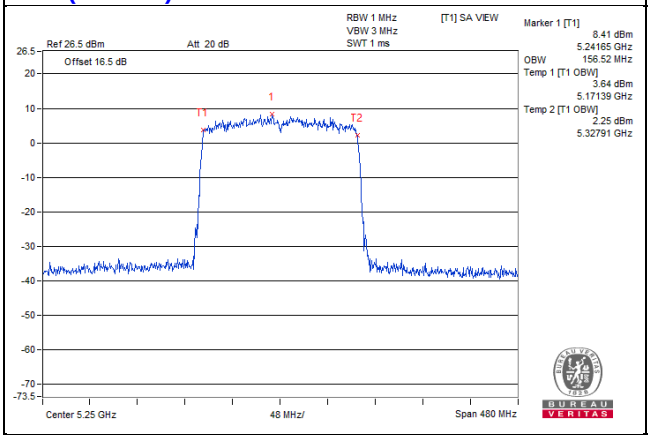
11ax (160MHz) 3S4T TxBF CH50 Ant3



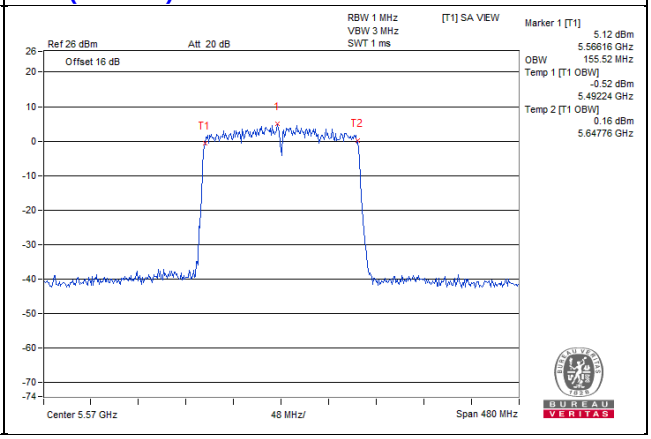
11ax (160MHz) 3S4T TxBF CH114 Ant3



11ax (160MHz) 3S4T TxBF CH50 Ant4



11ax (160MHz) 3S4T TxBF CH114 Ant4



4.3 Maximum Conducted Output Power Measurement

4.3.1 Limit

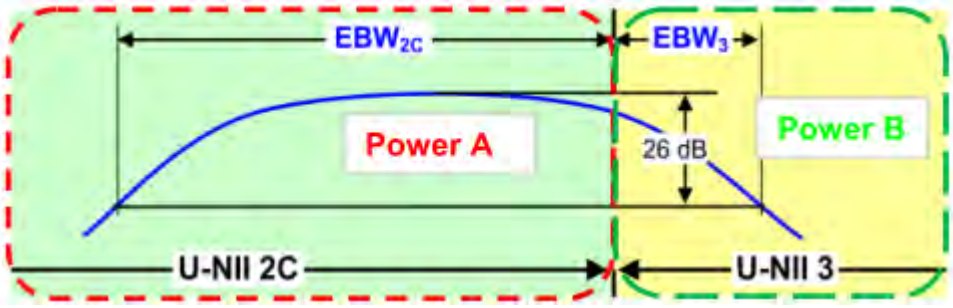
Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.



Emission Bandwidth (EBW) within a band for Band-Crossing Signals

1. Limit was performed in accordance with KDB 789033 D02 General UNII Test Procedures New rules v02r01,in section"In-band emission limits(A)",12/14/2017.

2. Power A:Limit based on EBW_{2C}=11+10log(EBW_{2C}) when < 20MHz or 24dBm when > 20MHz(UNII-2C)

3. Power B:Limit based on EBW_3=17+10log(EBW_3) when < 20MHz or 30dBm when > 20MHz(UNII-3)

4.3.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Filter No.	Auto
Measurement time	8ns
Power Sensor	MA2411B

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) (or,altematively,the entire 99% occupied bandwidth)of the signal
RBW	1MHz
VBW	≥ 3MHz
Detector	RMS
Trace	Average
Number of points in sweep	≥ 2 Span/RBW
Sweep Time	Auto,trigger set to “free run”
Trace average	100 times

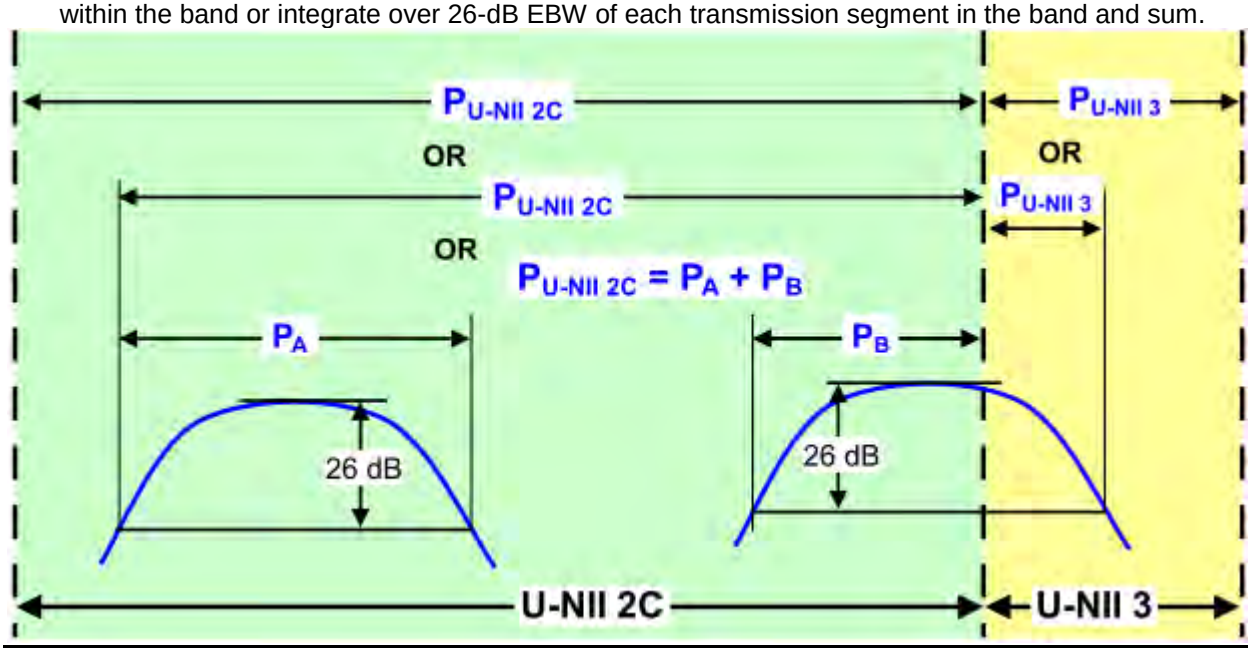
4.3.3 Test Procedures

Maximum Conducted Output Power

1. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under KDB789033 D02 General UNII Test Procedures New Rules v02r01, in section “Maximum conducted output power Method (3)” , 12/14/2017.
2. The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor to get the all on time transmission. Record the average power level.
3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

For Specturm analyzer

1. The transmitter output(antenna port)was connected Spectrum analyzer.
2. Measure the power of each spectrum sement by integrating acroos the EBW of that segment following the procedures of KDB 789033 D02 General UNII Test Procedures New rules v02r01,in section ”Maximum conducted ourput power Method SA-2(E)(2)(d)”,12/14/2017.
3. Test was performed in accordance with KDB 789033 D02 General UNII Test Procedures New rules v02r01,in section”In-band emission limits(A)”,12/14/2017.
4. If an EBW extends across the boundary between two adjacent bands, the boundary frequency between the bands serves as one edge of the frequency range to be integrated. Integration across an entire U-NII band without regard to 26-dB points is also acceptable for determing conducted output power within that band.
5. Integrate over the band or integrate over a span including the 26-dB EBWs of transmission segments within the band or integrate over 26-dB EBW of each transmission segment in the band and sum.



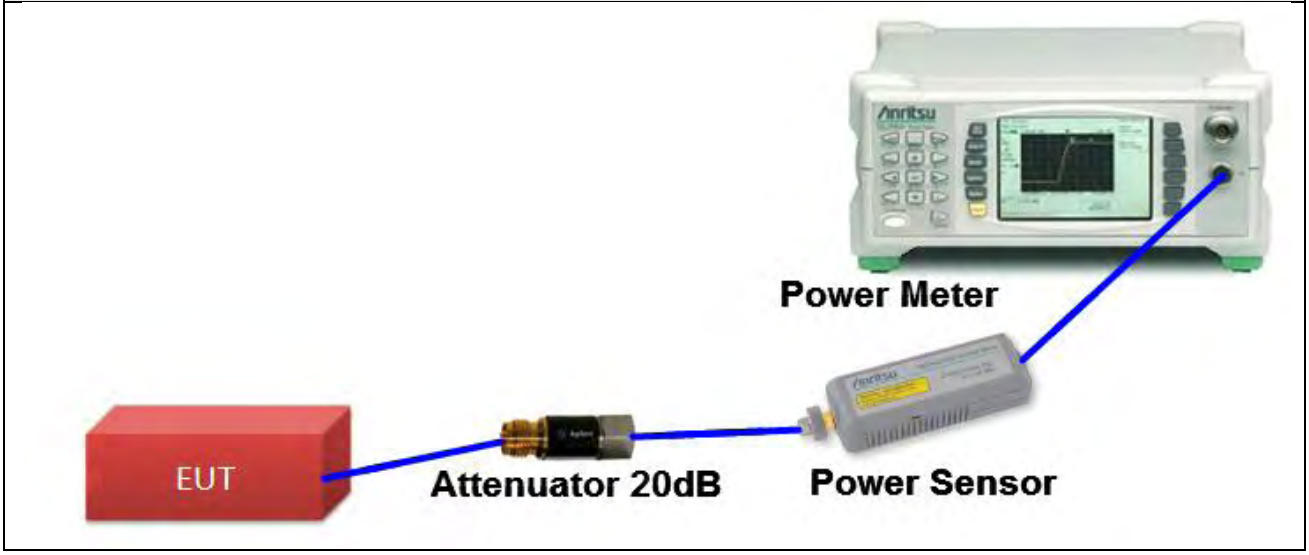
6. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic fomula.
7. Adjust the measurement in dBm by adding 10 log(1/x) where x is the dyty cycle. Record the average power level.

Transmit Power Control (TPC)

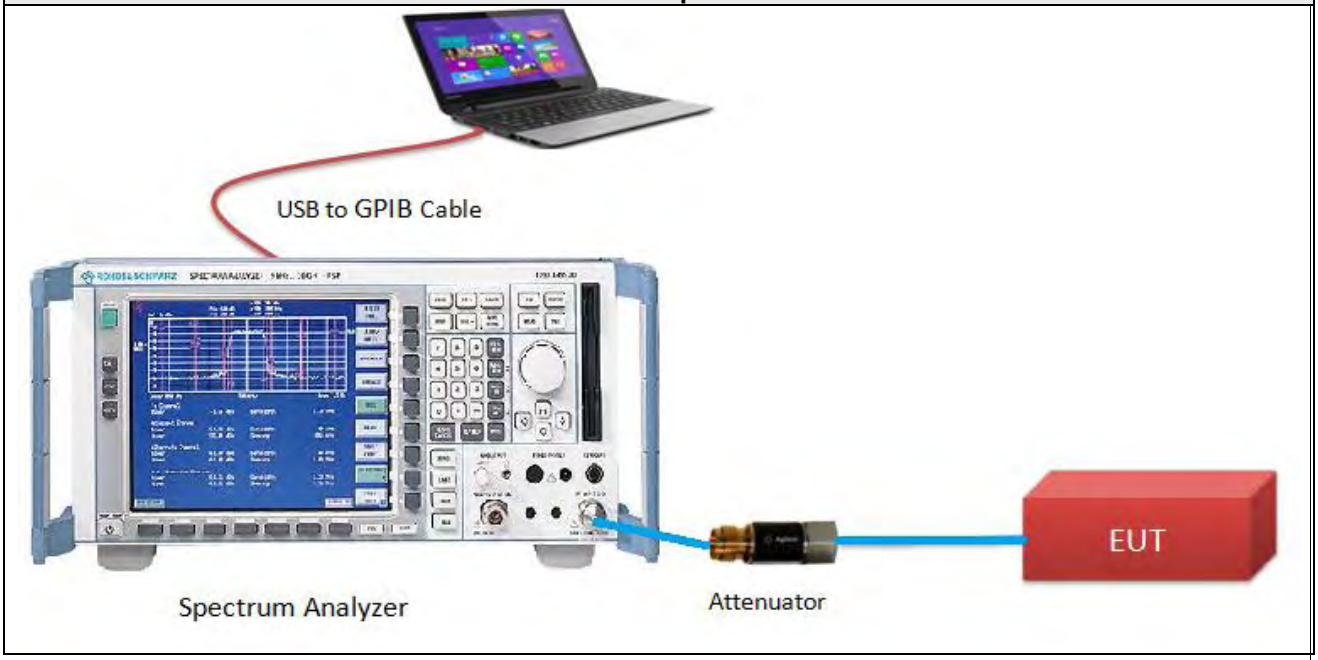
1. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under KDB789033 D02 General UNII Test Procedures New Rules v02r01, in section “Maximum conducted output power Method (3)” , 12/14/2017.
2. Set the EUT in RF operation mode, and configure the CH, BW and SSID according to test plan at band 2 and band 3.
3. Use the TPC lowest power level command to measurement the TPC lowest power level.
   uci set wireless.radio_5G.tx_power_adjust=-7
   /etc/init.d/hostapd reload
   ubus call wireless.radio get
4. The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor to get the all on time transmission. Record the average power level.
5. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

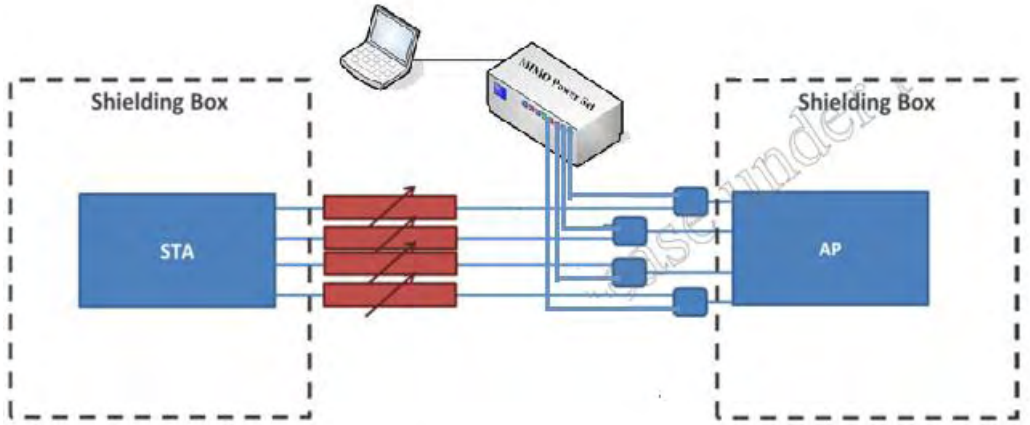
4.3.4 Test Setup Layout

For power Meter

Setup


For Spectrum Analyzer

Setup


Transmit Power Control (TPC)


4.3.5 Test Deviation

There are no deviations with the original standard.

4.3.6 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.3.7 Test Results of Maximum Conducted Output Power

Temperature	25°C	Humidity	60%
Test Engineer	Anderson Chen		

11ax (20MHz) 1S4T CDD

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
52	5260	17.76	18.04	17.21	18.40	23.89	3.04	24.00	Pass
60	5300	18.05	17.68	16.76	18.21	23.73	2.69	24.00	Pass
64	5320	18.21	17.63	16.85	18.32	23.81	2.56	24.00	Pass
100	5500	17.97	18.02	17.43	18.18	23.93	2.38	24.00	Pass
116	5580	17.81	17.95	17.54	18.03	23.86	3.13	24.00	Pass
140	5700	17.79	17.75	17.15	18.05	23.72	3.17	24.00	Pass
*144 (U-NII-2C Band)	5720	15.99	15.68	14.79	16.46	21.79	3.18	22.99	Pass
*144 (U-NII-3 Band)	5720	9.93	9.51	8.47	10.33	15.63	3.18	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
144	5720	187.684	22.73	17.96	17.83	17.12	18.10	239.279	23.79

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
52	5260	10.55	10.93	10.5	11.31	16.86	3.04	19.89	24.00	Pass
60	5300	11.15	10.97	9.92	11.36	16.90	2.69	19.59	24.00	Pass
64	5320	11.2	10.56	10.02	11.45	16.86	2.56	19.43	24.00	Pass
100	5500	10.87	10.78	10.35	11.21	16.83	2.38	19.21	24.00	Pass
116	5580	10.57	11.14	10.59	11.19	16.90	3.13	20.03	24.00	Pass
140	5700	10.62	10.66	9.89	11.31	16.67	3.17	19.84	24.00	Pass
144 (U-NII-2C Band)	5720	9.16	8.82	8.09	9.17	14.85	3.18	18.03	24.00	Pass

11ax (20MHz) 1S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
52	5260	17.75	17.96	17.12	18.36	23.84	5.87	24.00	Pass
60	5300	17.92	17.65	16.71	18.39	23.73	6.18	23.82	Pass
64	5320	18.15	17.55	16.81	18.49	23.82	5.75	24.00	Pass
100	5500	17.85	17.91	17.35	18.01	23.81	6.08	23.92	Pass
116	5580	17.30	17.44	17.01	17.46	23.33	6.58	23.42	Pass
140	5700	16.59	16.55	15.95	16.90	22.53	5.86	24.00	Pass
*144 (U-NII-2C Band)	5720	16.43	15.47	14.85	15.76	21.69	5.85	22.99	Pass
*144 (U-NII-3 Band)	5720	10.58	9.11	8.99	9.60	15.64	5.85	30.00	Pass

Note:
1. For 5260MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.87dBi < 6dBi, so the power limit shall not be reduced.
2. For 5300MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.18dBi > 6dBi, so the power limit shall be reduced to 24-(6.18-6) = 23.82dBm.
3. For 5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.75dBi < 6dBi, so the power limit shall not be reduced.
4. For 5500MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.08dBi > 6dBi, so the power limit shall be reduced to 24-(6.08-6) = 23.92dBm.
5. For 5580MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.58dBi > 6dBi, so the power limit shall be reduced to 24-(6.58-6) = 23.42dBm.
6. For 5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.86dBi < 6dBi, so the power limit shall not be reduced.
7. For 5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.85dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
144	5720	184.032	22.65	17.88	17.75	17.03	18.22	237.783	23.76

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
52	5260	11.05	10.8	9.84	11.12	16.75	5.87	22.63	24.00	Pass
60	5300	10.72	10.86	9.86	11.22	16.71	6.18	22.89	24.00	Pass
64	5320	11.35	10.31	9.87	11.4	16.80	5.75	22.55	24.00	Pass
100	5500	11.06	10.86	10.15	10.87	16.77	6.08	22.85	24.00	Pass
116	5580	10.42	10.26	9.94	10.7	16.36	6.58	22.94	24.00	Pass
140	5700	9.67	9.43	8.84	10.13	15.56	5.86	21.42	24.00	Pass
144 (U-NII-2C Band)	5720	9.23	8.25	7.75	8.7	14.54	5.85	20.39	24.00	Pass

11ax (20MHz) 2S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
52	5260	17.69	17.89	17.21	18.34	23.82	4.47	24.00	Pass
60	5300	17.83	17.64	16.95	18.38	23.75	4.61	24.00	Pass
64	5320	18.06	17.49	16.92	18.42	23.78	4.25	24.00	Pass
100	5500	17.81	17.88	17.40	17.96	23.79	4.28	24.00	Pass
116	5580	17.75	17.82	17.45	17.88	23.75	4.66	24.00	Pass
140	5700	17.65	17.52	16.85	18.02	23.55	4.43	24.00	Pass
*144 (U-NII-2C Band)	5720	15.45	14.93	14.58	15.91	21.27	4.32	22.98	Pass
*144 (U-NII-3 Band)	5720	9.35	8.51	8.34	9.86	15.08	4.32	30.00	Pass

Note: 1. For 5260MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.47dBi < 6dBi, so the power limit shall not be reduced.
2. For 5300MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.61dBi < 6dBi, so the power limit shall not be reduced.
3. For 5320MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.25dBi < 6dBi, so the power limit shall not be reduced.
4. For 5500MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.28dBi < 6dBi, so the power limit shall not be reduced.
5. For 5580MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.66dBi < 6dBi, so the power limit shall not be reduced.
6. For 5700MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.43dBi < 6dBi, so the power limit shall not be reduced.
7. For 5720MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 4.32dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
144	5720	166.106	22.20	17.82	17.71	17.09	18.48	241.192	23.82

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
52	5260	10.69	10.62	10.48	11.11	16.75	4.47	21.22	24.00	Pass
60	5300	10.72	10.66	9.91	11.43	16.73	4.61	21.34	24.00	Pass
64	5320	11.15	10.5	10	11.38	16.81	4.25	21.06	24.00	Pass
100	5500	10.51	10.75	10.66	11.25	16.82	4.28	21.11	24.00	Pass
116	5580	10.87	10.73	10.51	10.8	16.75	4.66	21.41	24.00	Pass
140	5700	10.57	10.32	9.79	11.19	16.52	4.43	20.95	24.00	Pass
144 (U-NII-2C Band)	5720	8.64	8.22	7.77	9.19	14.51	4.32	18.82	24.00	Pass

11ax (20MHz) 3S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
52	5260	17.71	17.82	17.21	18.27	23.79	2.25	24.00	Pass
60	5300	17.85	17.69	17.03	18.32	23.77	2.31	24.00	Pass
64	5320	18.01	17.52	17.06	18.41	23.80	1.94	24.00	Pass
100	5500	17.85	17.82	17.51	17.95	23.81	2.19	24.00	Pass
116	5580	17.78	17.85	17.51	17.84	23.77	2.46	24.00	Pass
140	5700	17.88	17.75	17.08	18.32	23.80	2.57	24.00	Pass
*144 (U-NII-2C Band)	5720	14.81	14.77	13.96	15.46	20.80	2.48	22.97	Pass
*144 (U-NII-3 Band)	5720	8.47	9.48	8.24	8.70	14.77	2.48	30.00	Pass

Note:
1. For 5260MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.25dBi < 6dBi, so the power limit shall not be reduced.
2. For 5300MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.31dBi < 6dBi, so the power limit shall not be reduced.
3. For 5320MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 1.94dBi < 6dBi, so the power limit shall not be reduced.
4. For 5500MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.19dBi < 6dBi, so the power limit shall not be reduced.
5. For 5580MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.46dBi < 6dBi, so the power limit shall not be reduced.
6. For 5700MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.57dBi < 6dBi, so the power limit shall not be reduced.
7. For 5720MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.48dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
144	5720	150.288	21.77	17.85	17.68	17.11	18.46	241.117	23.82

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
52	5260	10.58	10.87	10.39	11.41	16.85	2.25	19.11	24.00	Pass
60	5300	10.81	10.91	9.95	11.05	16.72	2.31	19.03	24.00	Pass
64	5320	10.76	10.33	10.18	11.47	16.74	1.94	18.67	24.00	Pass
100	5500	10.6	10.62	10.45	10.91	16.67	2.19	18.86	24.00	Pass
116	5580	10.73	10.86	10.23	11.13	16.77	2.46	19.23	24.00	Pass
140	5700	10.87	10.9	10.06	11.43	16.86	2.57	19.43	24.00	Pass
144 (U-NII-2C Band)	5720	7.74	7.86	7.14	8.67	13.91	2.48	16.39	24.00	Pass

11ax (40MHz) 1S4T CDD

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
54	5270	18.55	17.53	17.13	18.32	23.94	2.60	24.00	Pass
62	5310	18.23	17.42	17.05	18.24	23.79	2.30	24.00	Pass
102	5510	17.81	17.67	17.12	17.86	23.65	2.78	24.00	Pass
110	5550	17.93	17.35	17.02	17.97	23.61	2.75	24.00	Pass
134	5670	18.16	17.54	17.26	17.98	23.77	3.09	24.00	Pass
*142 (U-NII-2C Band)	5710	18.55	17.38	17.06	18.31	23.86	3.23	24.00	Pass
*142 (U-NII-3 Band)	5710	6.17	6.22	5.97	5.98	12.11	3.23	30.00	Pass

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
142	5710	261.14	24.17	18.05	17.58	16.97	18.21	237.101	23.75

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
54	5270	11.6	10.51	10.01	11.03	16.85	2.60	19.45	24.00	Pass
62	5310	11.34	10.31	10	11.03	16.72	2.30	19.03	24.00	Pass
102	5510	10.83	10.86	9.84	10.75	16.61	2.78	19.39	24.00	Pass
110	5550	10.97	10.26	10.28	10.73	16.59	2.75	19.34	24.00	Pass
134	5670	11.04	10.61	10.54	11.17	16.87	3.09	19.96	24.00	Pass
142 (U-NII-2C Band)	5710	11.72	10.61	9.99	11.58	17.05	3.23	20.28	24.00	Pass

11ax (40MHz) 1S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
54	5270	18.06	17.07	16.66	17.82	23.46	6.33	23.67	Pass
62	5310	18.48	17.35	17.11	18.31	23.87	6.01	23.99	Pass
102	5510	17.32	17.21	16.65	17.31	23.15	6.32	23.68	Pass
110	5550	17.93	17.38	17.09	17.72	23.56	6.00	24.00	Pass
134	5670	18.11	17.56	17.32	18.21	23.84	5.67	24.00	Pass
142 (U-NII-2C Band)	5710	18.35	17.39	17.22	18.19	23.84	5.96	24.00	Pass
142 (U-NII-3 Band)	5710	7.25	5.47	5.27	6.80	12.30	5.96	30.00	Pass

Note: 1. For 5270MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.33dBi > 6dBi, so the power limit shall be reduced to 24-(6.33-6) = 23.67dBm.
2. For 5310MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.01dBi > 6dBi, so the power limit shall be reduced to 24-(6.01-6) = 23.99dBm.
3. For 5510MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.32dBi > 6dBi, so the power limit shall be reduced to 24-(6.32-6) = 23.68dBm.
4. For 5550MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.00dBi = 6dBi, so the power limit shall not be reduced.
5. For 5670MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.67dBi < 6dBi, so the power limit shall not be reduced.
6. For 5710MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.96dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
142	5710	258.843	24.13	17.99	17.62	17.01	17.97	233.656	23.69

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
54	5270	11.24	9.77	9.79	11.07	16.54	6.33	22.87	24.00	Pass
62	5310	11.3	10.45	10.26	11.04	16.80	6.01	22.82	24.00	Pass
102	5510	10.44	10.19	9.35	10.4	16.14	6.32	22.46	24.00	Pass
110	5550	10.65	10.54	9.83	10.9	16.52	6.00	22.52	24.00	Pass
134	5670	10.85	10.47	10.45	10.99	16.72	5.67	22.39	24.00	Pass
142 (U-NII-2C Band)	5710	11.29	10.5	10.12	11.29	16.85	5.96	22.81	24.00	Pass

11ax (40MHz) 2S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
54	5270	18.52	17.51	17.16	18.26	23.92	4.86	24.00	Pass
62	5310	18.47	17.38	17.06	18.49	23.92	4.48	24.00	Pass
102	5510	17.32	17.18	16.61	17.37	23.15	4.56	24.00	Pass
110	5550	18.00	17.33	17.06	17.69	23.56	4.58	24.00	Pass
134	5670	18.08	17.58	17.30	17.81	23.72	4.16	24.00	Pass
142 (U-NII-2C Band)	5710	18.10	17.31	17.14	17.85	23.64	4.20	24.00	Pass
142 (U-NII-3 Band)	5710	5.03	5.33	2.83	4.87	10.64	4.20	30.00	Pass

Note: 1. For 5270MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.86dBi < 6dBi, so the power limit shall not be reduced.
2. For 5310MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.48dBi < 6dBi, so the power limit shall not be reduced.
3. For 5510MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.56dBi < 6dBi, so the power limit shall not be reduced.
4. For 5550MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.58dBi < 6dBi, so the power limit shall not be reduced.
5. For 5670MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.16dBi < 6dBi, so the power limit shall not be reduced.
6. For 5710MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.20dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
142	5710	242.691	23.85	18.01	17.59	17.06	17.91	233.27	23.68

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
54	5270	11.5	10.51	10.31	11.12	16.91	4.86	21.77	24.00	Pass
62	5310	11.27	10.67	9.87	11.44	16.88	4.48	21.35	24.00	Pass
102	5510	10.44	10.47	9.48	10.31	16.21	4.56	20.77	24.00	Pass
110	5550	10.98	10.12	10.06	10.79	16.53	4.58	21.11	24.00	Pass
134	5670	10.9	10.76	10.28	10.83	16.72	4.16	20.88	24.00	Pass
142 (U-NII-2C Band)	5710	11.12	10.53	9.96	11.09	16.72	4.20	20.92	24.00	Pass

11ax (40MHz) 3S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
54	5270	18.48	17.54	17.11	18.24	23.90	2.66	24.00	Pass
62	5310	18.45	17.42	17.11	18.42	23.91	2.17	24.00	Pass
102	5510	17.74	17.63	17.05	17.80	23.59	2.58	24.00	Pass
110	5550	17.85	17.28	17.11	17.63	23.50	2.56	24.00	Pass
134	5670	18.11	17.56	17.32	18.19	23.83	2.26	24.00	Pass
142 (U-NII-2C Band)	5710	17.74	17.17	16.64	17.83	23.39	2.31	24.00	Pass
142 (U-NII-3 Band)	5710	4.28	2.81	2.66	4.77	9.75	2.31	30.00	Pass

Note: 1. For 5270MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.66dBi < 6dBi, so the power limit shall not be reduced.
2. For 5310MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.17dBi < 6dBi, so the power limit shall not be reduced.
3. For 5510MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.58dBi < 6dBi, so the power limit shall not be reduced.
4. For 5550MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.56dBi < 6dBi, so the power limit shall not be reduced.
5. For 5670MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.26dBi < 6dBi, so the power limit shall not be reduced.
6. For 5710MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.31dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
142	5710	227.787	23.58	18.06	17.62	17.05	17.97	235.144	23.71

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
54	5270	11.23	10.34	10.18	11.02	16.74	2.66	19.40	24.00	Pass
62	5310	11.44	10.16	9.96	11.17	16.75	2.17	18.92	24.00	Pass
102	5510	10.51	10.46	10.27	10.67	16.50	2.58	19.08	24.00	Pass
110	5550	10.94	10.32	9.94	10.73	16.52	2.56	19.08	24.00	Pass
134	5670	11.06	10.29	10.32	10.97	16.70	2.26	18.96	24.00	Pass
142 (U-NII-2C Band)	5710	10.9	10.06	9.46	11.03	16.43	2.31	18.74	24.00	Pass

11ax (80MHz) 1S4T CDD

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
58	5290	18.12	17.38	17.18	18.42	23.83	2.81	24.00	Pass
106	5530	17.71	17.27	17.26	17.69	23.51	2.97	24.00	Pass
122	5610	17.72	17.49	17.00	17.85	23.55	2.92	24.00	Pass
*138 (U-NII-2C Band)	5690	17.88	17.21	16.76	18.12	23.55	3.72	24.00	Pass
*138 (U-NII-3 Band)	5690	1.11	2.69	1.41	1.98	7.86	3.72	30.00	Pass

Note: 1. For 5290MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.81 dBi < 6dBi, so the power limit shall not be reduced.
2. For 5530MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 2.97dBi < 6dBi, so so the power limit shall not be reduced.
3. For 5610MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] =2.92dBi < 6dBi, so so the power limit shall not be reduced..
4. For 5690MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] =3.72dBi < 6dBi, so t so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
138	5690	232.376	23.66	17.68	17.62	16.90	17.85	226.355	23.55

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
58	5290	10.95	10.53	9.93	11.23	16.71	2.81	19.52	24.00	Pass
106	5530	10.42	10.28	9.96	10.43	16.30	2.97	19.27	24.00	Pass
122	5610	10.63	10.35	10.22	10.87	16.55	2.92	19.46	24.00	Pass
138 (U-NII-2C Band)	5690	10.88	10.1	9.92	11.13	16.56	3.72	20.28	24.00	Pass

11ax (80MHz) 1S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
58	5290	18.48	17.32	17.11	18.39	23.89	5.98	24.00	Pass
106	5530	16.99	16.71	16.78	17.19	22.94	6.59	23.41	Pass
122	5610	17.71	17.46	17.02	17.93	23.56	5.47	24.00	Pass
*138 (U-NII-2C Band)	5690	17.38	16.33	16.19	17.22	22.83	6.63	23.37	Pass
*138 (U-NII-3 Band)	5690	1.79	0.00	-0.99	1.30	6.68	6.63	29.37	Pass

Note: 1. For 5290MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.98dBi < 6dBi, so the power limit shall not be reduced.
2. For 5530MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.59dBi > 6dBi, so the power limit shall be reduced to 24-(6.59-6) = 23.41dBm.
3. For 5610MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.47dBi < 6dBi, so the power limit shall not be reduced.
4. For 5690MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.63dBi > 6dBi, so the power limit shall be reduced to 24-(6.63-6) = 23.37dBm.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
138	5690	196.6242	22.94	16.95	16.99	16.88	17.18	200.541	23.02

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
58	5290	11.33	10.08	10.2	11.47	16.84	5.98	22.82	24.00	Pass
106	5530	9.97	9.53	9.57	10.15	15.83	6.59	22.43	23.41	Pass
122	5610	10.99	10.56	10.29	10.88	16.71	5.47	22.18	24.00	Pass
138 (U-NII-2C Band)	5690	10.11	9.46	9.18	10.43	15.84	6.63	22.47	23.37	Pass

11ax (80MHz) 2S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
58	5290	16.89	16.24	16.23	16.80	22.57	4.55	24.00	Pass
106	5530	17.64	17.24	17.31	17.69	23.50	4.87	24.00	Pass
122	5610	17.69	17.42	17.06	17.85	23.54	3.87	24.00	Pass
*138 (U-NII-2C Band)	5690	17.83	17.08	16.71	18.11	23.49	5.02	24.00	Pass
*138 (U-NII-3 Band)	5690	-1.14	1.34	-1.39	0.54	6.01	5.02	30.00	Pass

Note: 1. For 5290MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.55dBi < 6dBi, so the power limit shall not be reduced.
2. For 5530MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.87dBi < 6dBi, so the power limit shall not be reduced.
3. For 5610MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 3.87dBi < 6dBi, so the power limit shall not be reduced.
4. For 5690MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.02dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
138	5690	227.309	23.57	17.55	17.58	16.82	17.98	225.055	23.52

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
58	5290	9.76	9.4	9.34	9.91	15.63	4.55	20.18	24.00	Pass
106	5530	10.39	10.38	10.08	10.65	16.40	4.87	21.27	24.00	Pass
122	5610	10.49	10.29	10.29	10.86	16.51	3.87	20.38	24.00	Pass
138 (U-NII-2C Band)	5690	10.59	10.18	9.97	11.11	16.51	5.02	21.52	24.00	Pass

11ax (80MHz) 3S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
58	5290	18.45	17.36	17.08	18.36	23.87	2.32	24.00	Pass
106	5530	16.79	16.44	16.55	16.98	22.72	2.88	24.00	Pass
122	5610	17.85	17.38	17.01	17.72	23.52	1.99	24.00	Pass
*138 (U-NII-2C Band)	5690	17.73	16.88	16.51	17.9	23.31	3.05	24.00	Pass
*138 (U-NII-3 Band)	5690	1.99	-1.79	-2.03	0.70	6.07	3.05	30.00	Pass

Note: 1. For 5290MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.32dBi < 6dBi, so the power limit shall not be reduced.
2. For 5530MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.88dBi < 6dBi, so the power limit shall not be reduced.
3. For 5610MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 1.99dBi < 6dBi, so the power limit shall not be reduced.
4. For 5690MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 3.05dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
138	5690	218.521	23.39	17.70	17.55	16.87	17.79	224.528	23.51

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
58	5290	11.32	10.2	10.29	11.28	11.32	2.32	19.15	24.00	Pass
106	5530	9.77	9.16	9.43	9.82	9.77	2.88	18.45	24.00	Pass
122	5610	10.81	10.48	9.86	10.69	10.81	1.99	18.49	24.00	Pass
138 (U-NII-2C Band)	5690	10.54	9.6	9.36	10.74	10.54	3.05	19.17	24.00	Pass

11ax (160MHz) 1S4T CDD

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
50 (U-NII-1 Band)	5250	11.87	11.88	12.33	11.80	18.00	3.04	24.00	Pass
*50 (U-NII-2A Band)	5250	12.44	10.99	12.17	11.81	17.91	3.04	24.00	Pass
114	5570	17.70	17.57	17.18	17.89	23.61	3.45	30.00	Pass

Note: 1. For 5250MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 3.04dBi > 6dBi, so the power limit shall not be reduced.
2. For 5570MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 3.45dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
50	5250	124.785	20.96	15.96	15.66	15.45	15.97	150.87	21.79

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
50 (U-NII-1 Band)	5250	4.91	4.89	5.42	4.59	10.98	3.04	14.03	24.00	Pass
*50 (U-NII-2ABand)	5250	5.21	4.29	5.19	4.67	10.88	3.04	13.92	24.00	Pass
114	5570	10.5	10.73	10.44	10.59	16.59	3.45	20.04	24.00	Pass

11ax (160MHz) 1S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
50 (U-NII-1 Band)	5250	12.18	11.81	12.16	11.63	17.97	6.16	23.84	Pass
*50 (U-NII-2A Band)	5250	12.50	11.94	11.70	12.04	18.08	6.16	23.84	Pass
114	5570	17.62	17.31	16.97	17.46	23.37	5.70	24.00	Pass

Note: 1. For 5250MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.16dBi > 6dBi, so the power limit shall be reduced to 24-(6.16-6) = 23.84dBm.
2. For 5570MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.70dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
50	5250	126.889	21.03	16.04	15.68	15.42	16.02	151.99	21.82

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
50 (U-NII-1 Band)	5250	5.15	5.14	5.25	5.03	11.16	6.16	15.80	24.00	Pass
*50 (U-NII-2ABand)	5250	4.74	4.53	4.61	4.62	10.65	6.16	15.28	24.00	Pass
114	5570	10.55	10.27	10.04	10.61	16.39	5.70	20.66	24.00	Pass

11ax (160MHz) 2S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
50 (U-NII-1 Band)	5250	11.95	11.89	11.95	11.91	17.95	4.64	24.00	Pass
*50 (U-NII-2A Band)	5250	11.87	11.74	11.84	11.88	17.85	4.64	24.00	Pass
114	5570	17.71	17.55	17.21	17.72	23.57	4.27	24.00	Pass

Note: 1. For 5250MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/3] = 4.64dBi < 6dBi, so the power limit shall not be reduced.
2. For 5570MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/3] = 4.27dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
50	5250	123.313	20.91	15.90	15.64	15.41	15.88	149.028	21.73

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
50 (U-NII-1 Band)	5250	5.15	5.14	5.25	5.03	11.16	4.64	15.80	24.00	Pass
*50 (U-NII-2ABand)	5250	4.74	4.53	4.61	4.62	10.65	4.64	15.28	24.00	Pass
114	5570	10.55	10.27	10.04	10.61	16.39	4.27	20.66	24.00	Pass

11ax (160MHz) 3S4T TxBF

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	MAX. Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4				
50 (U-NII-1 Band)	5250	10.37	10.25	10.26	10.00	16.24	2.40	24.00	Pass
*50 (U-NII-2A Band)	5250	10.25	10.03	10.31	10.12	16.20	2.40	24.00	Pass
114	5570	16.36	16.09	15.65	16.38	22.15	2.25	24.00	Pass

Note: 1. For 5250MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/3] = 2.40dBi < 6dBi, so the power limit shall not be reduced.
2. For 5570MHz: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/3] = 2.25dBi < 6dBi, so the power limit shall not be reduced.

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel and power meter value for reference only:

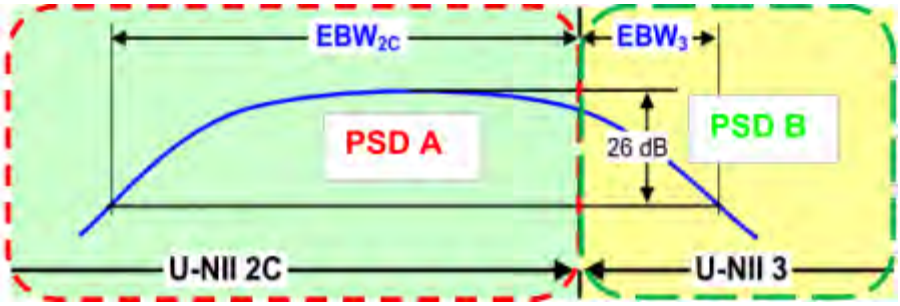
Chan.	Chan. Freq. (MHz)	Total Power (mW)	Total Power (dBm)	Average Power (dBm)				Total Average Power (mW)	Total Average Power (dBm)
				Ant1	Ant2	Ant3	Ant4		
50	5250	83.781	19.23	14.71	14.38	14.19	14.76	113.161	20.54

Channel	Frequency (MHz)	Conducted Power (dBm)				Total Conducted Power (dBm)	Directional Gain(dBi)	TPC Low Power EIRP (dBm)	TPC Low Power EIRP Limit (dBm)	Result
		Ant1	Ant2	Ant3	Ant4					
50 (U-NII-1 Band)	5250	3.3	3.42	3.27	3.07	9.29	2.40	11.69	24.00	Pass
*50 (U-NII-2ABand)	5250	3.18	2.87	3.51	2.9	9.14	2.40	11.55	24.00	Pass
114	5570	9.32	9.21	8.46	9.44	15.14	2.25	17.39	24.00	Pass

4.4 Power Spectral Density Measurement

4.4.1 Limit

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz



Emission Bandwidth (EBW) within a Band for Band-Crossing Signals

1. Limit was perfomed in accordance with KDB 789033 D02 General UNII Test Procedures New rules v02r01,in section"In-band emission limits(A)",12/14/2017.

2. PSD A:Limit based on EBW_{2C} = 11dBm/MHz

3. PSD B:Limit based on EBW_3 = 30dBm/500kHz

4.4.2 Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter Setting	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz
VBW	≥ 3 MHz
Detector	RMS
Trace	Average
Sweep Time	Auto, trigger set to “free run”
Trace average	100 times

For U-NII-3 Band

Spectrum Parameter Setting	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	300 KHz
VBW	≥ 3 RBW
Detector	RMS
Trace	Average
Sweep Time	Auto, trigger set to “free run”
Trace average	100 times

4.4.3 Test Procedure

1 The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.

2 For U-NII-1, U-NII-2A & U-NII-2C Bands, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v02r01 in section “Maximum conducted output power (E)(2)(d) Method SA-2”, 12/14/2017..

3 For U-NII-3 Band, PSD Measure was performed in accordance with 789033 D02 General UNII Test Procedures New Rules v02r01, in section “Maximum Power Spectral Density (F)(5)” , 12/14/2017

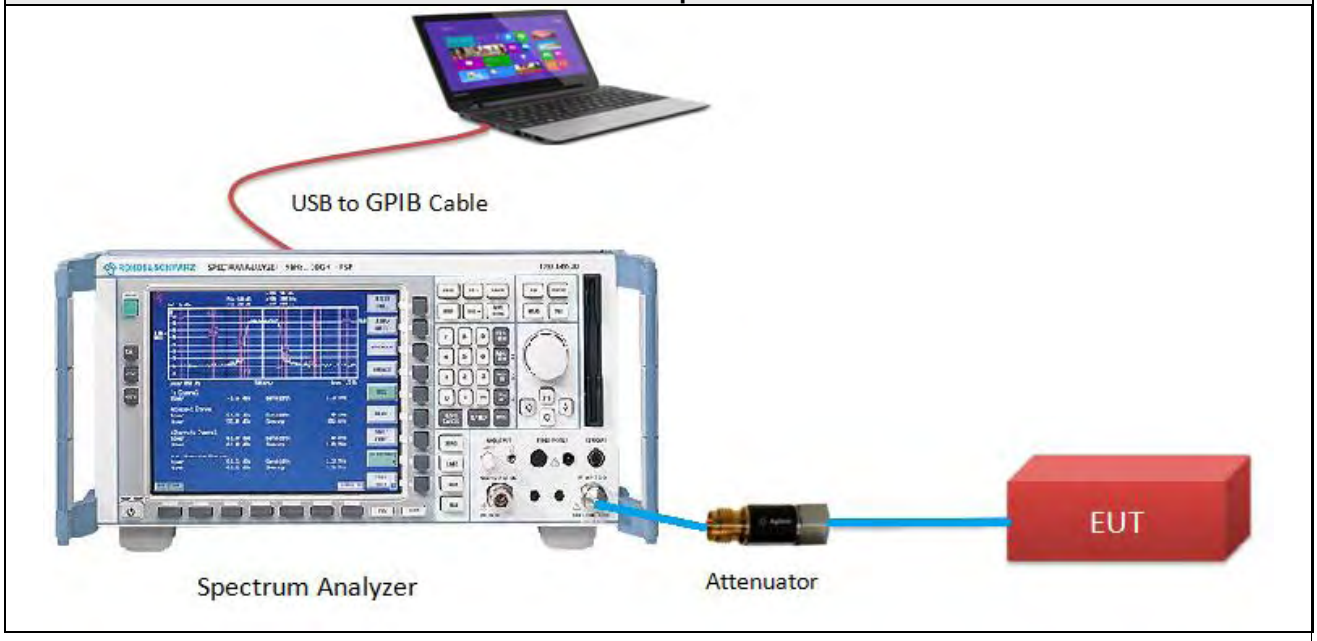
4 Multiple antenna systems was performed in accordance 662911 D01 Multiple Transmitter Output v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs (bin-by-bin summing).

5 When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum.

6 The summed spectrum value for each of the other frequency bins is computed in the same way.

4.4.4 Test Setup Layout

Setup



4.4.5 Test Deviation

There are no deviations with the original standard.

4.4.6 EUT Operating Conditions

The EUT was programmed to be in continuously transmitting mode.

4.4.7 Test Results of Power Spectral Density

Temperature	25°C	Humidity	60%
Test Engineer	Jyunchun Lin		

11ax (20MHz) 1S4T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
52	5260	9.21	0.10	9.31	3.04	11.00	Pass
60	5300	9.26	0.10	9.36	6.18	10.82	Pass
64	5320	9.36	0.10	9.46	5.75	11.00	Pass
100	5500	9.80	0.10	9.90	6.08	10.92	Pass
116	5580	9.59	0.10	9.69	6.58	10.42	Pass
140	5700	9.29	0.10	9.39	5.86	11.00	Pass
144 (U-NII-2C Band)	5720	10.71	0.10	10.81	5.85	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5260MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 3.04dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5300MHz: Directional gain = 10 log[$(10^{/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.18dBi > 6dBi, therefore the limit shall be reduced to 11-(6.18-6) = 10.82dBm.
4. For 5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.75dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5500MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.08dBi > 6dBi, therefore the limit shall be reduced to 11-(6.08-6) = 10.92dBm.
6. For 5580MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.58dBi > 6dBi, therefore the limit shall be reduced to 11-(6.58-6) = 10.42dBm.
7. For 5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.86dBi < 6dBi, so the power density limit shall not be reduced.
8. For 5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.85dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5720	0.02	0.10	0.12	2.44	5.85	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5720MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.85 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (20MHz) 1S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
52	5260	9.58	0.00	9.58	5.87	11.00	Pass
60	5300	9.68	0.00	9.68	6.18	10.82	Pass
64	5320	9.77	0.00	9.77	5.75	11.00	Pass
100	5500	9.66	0.00	9.66	6.08	10.92	Pass
116	5580	9.55	0.00	9.55	6.58	10.42	Pass
140	5700	8.45	0.00	8.45	5.86	11.00	Pass
144 (U-NII-2C Band)	5720	10.70	0.00	10.70	5.85	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5260MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.87dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5300MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.18dBi > 6dBi, therefore the limit shall be reduced to 11-(6.18-6) = 10.82dBm.
4. For 5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.75dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5500MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.08dBi > 6dBi, therefore the limit shall be reduced to 11-(6.08-6) = 10.92dBm.
6. For 5580MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 6.58dBi > 6dBi, therefore the limit shall be reduced to 11-(6.58-6) = 10.42dBm.
7. For 5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.86dBi < 6dBi, so the power density limit shall not be reduced.
8. For 5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 5.85dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5720	0.48	0.00	0.48	2.70	5.85	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5720MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.85 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (20MHz) 2S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
52	5260	9.17	0.19	9.36	4.47	11.00	Pass
60	5300	9.17	0.19	9.36	4.61	11.00	Pass
64	5320	9.23	0.19	9.42	4.25	11.00	Pass
100	5500	9.63	0.19	9.82	4.28	11.00	Pass
116	5580	9.45	0.19	9.64	4.66	11.00	Pass
140	5700	8.85	0.19	9.04	4.43	11.00	Pass
144 (U-NII-2C Band)	5720	10.50	0.19	10.69	4.32	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5260MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.47dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5300MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.61dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.25dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5500MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
6. For 5580MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.66dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.43dBi < 6dBi, so the power density limit shall not be reduced.
8. For 5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 4.32dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5720	-0.22	0.19	-0.03	2.38	4.32	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5720MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 4.32 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (20MHz) 3S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
52	5260	9.17	0.24	9.41	2.25	11.00	Pass
60	5300	9.17	0.24	9.41	2.31	11.00	Pass
64	5320	9.20	0.24	9.44	1.94	11.00	Pass
100	5500	9.59	0.24	9.83	2.19	11.00	Pass
116	5580	9.44	0.24	9.68	2.46	11.00	Pass
140	5700	9.20	0.24	9.44	2.57	11.00	Pass
144 (U-NII-2C Band)	5720	10.48	0.24	10.72	2.48	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5260MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.25dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5300MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.31dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 1.94dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5500MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.19dBi < 6dBi, so the power density limit shall not be reduced.
6. For 5580MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.46dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.57dBi < 6dBi, so the power density limit shall not be reduced.
8. For 5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 2.48dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5720	-0.20.	0.24	0.04	2.50	2.48	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5720MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 2.48 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (40MHz) 1S4T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
54	5270	7.06	0.00	7.06	6.33	10.67	Pass
62	5310	7.21	0.00	7.21	6.01	10.99	Pass
102	5510	6.79	0.00	6.79	6.32	10.68	Pass
110	5550	6.74	0.00	6.74	6.00	11.00	Pass
134	5670	6.31	0.00	6.31	5.67	11.00	Pass
142 (U-NII-2C Band)	5710	6.30	0.00	6.30	5.96	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5270MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.33dBi > 6dBi, therefore the limit shall be reduced to 11-(6.33-6) = 10.67dBm.
3. For 5310MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.01dBi > 6dBi, therefore the limit shall be reduced to 11-(6.01-6) = 10.99dBm.
4. For 5510MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.32Bi > 6dBi, therefore the limit shall be reduced to 11-(6.32-6) = 10.68dBm.
5. For 5550MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6dBi = 6dBi, so the power density limit shall not be reduced.
6. For 5670MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.67dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5710MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.96dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5710	-3.35	0	-3.35	-1.13	5.96	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5710MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.96 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (40MHz) 1S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
54	5270	6.58	0.00	6.58	6.33	10.67	Pass
62	5310	6.87	0.00	6.87	6.01	10.99	Pass
102	5510	6.47	0.00	6.47	6.32	10.68	Pass
110	5550	6.81	0.00	6.81	6.00	11.00	Pass
134	5670	6.68	0.00	6.68	5.67	11.00	Pass
142 (U-NII-2C Band)	5710	6.70	0.00	6.70	5.96	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5270MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.33dBi > 6dBi, therefore the limit shall be reduced to 11-(6.33-6) = 10.67dBm.
3. For 5310MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.01dBi > 6dBi, therefore the limit shall be reduced to 11-(6.01-6) = 10.99dBm.
4. For 5510MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.32dBi > 6dBi, therefore the limit shall be reduced to 11-(6.32-6) = 10.68dBm.
5. For 5550MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6dBi = 6dBi, so the power density limit shall not be reduced.
6. For 5670MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.67dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.96dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5710	-3.23	0	-3.23	-1.01	5.96	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.96 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (40MHz) 2S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
54	5270	7.26	0.23	7.26	4.86	11.00	Pass
62	5310	7.33	0.23	7.33	4.48	11.00	Pass
102	5510	5.87	0.23	5.87	4.56	11.00	Pass
110	5550	6.20	0.23	6.20	4.58	11.00	Pass
134	5670	6.09	0.23	6.09	4.16	11.00	Pass
142 (U-NII-2C Band)	5710	6.11	0.23	6.11	4.20	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5270MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.86dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5310MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.48dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5510MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.56dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5550MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.58dBi < 6dBi, so the power density limit shall not be reduced.
6. For 5670MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.16dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.20dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5710	-3.54	0.23	-3.31	-0.86	4.20	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.20 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (40MHz) 3S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
54	5270	7.26	0.33	7.59	2.66	11.00	Pass
62	5310	6.77	0.33	7.10	2.17	11.00	Pass
102	5510	6.26	0.33	6.59	2.58	11.00	Pass
110	5550	6.18	0.33	6.51	2.56	11.00	Pass
134	5670	6.28	0.33	6.61	2.26	11.00	Pass
142 (U-NII-2C Band)	5710	6.31	0.33	6.64	2.31	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5270MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.66dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5310MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.17dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5510MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.58dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5550MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.56dBi < 6dBi, so the power density limit shall not be reduced.
6. For 5670MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.26dBi < 6dBi, so the power density limit shall not be reduced.
7. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.31dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5710	-3.35	0.33	-3.02	-0.47	2.31	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5710MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.31 dBi < 6dBi, so the power density limit shall not be reduced..

11ax (80MHz) 1S4T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
58	5290	4.18	0.24	4.42	5.98	11.00	Pass
106	5530	4.01	0.24	4.25	6.59	10.41	Pass
122	5610	4.02	0.24	4.26	5.47	11.00	Pass
138 (U-NII-2C Band)	5690	3.53	0.24	3.77	6.63	10.37	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5290MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5530MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.59dBi > 6dBi, therefore the limit shall be reduced to 11-(6.59-6) = 10.41dBm.
4. For 5610MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.47dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5690MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.63dBi > 6dBi, therefore the limit shall be reduced to 11-(6.63-6) = 10.37dBm.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5690	-7.09	0.24	-6.85	-4.39	6.63	29.37	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5690MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.63 dBi > 6dBi, therefore the limit shall be reduced to 30-(6.63-6) = 29.37dBm

11ax (80MHz) 1S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
58	5290	4.10	0.25	4.35	5.98	11.00	Pass
106	5530	3.36	0.25	3.61	6.59	10.41	Pass
122	5610	3.84	0.25	4.09	5.47	11.00	Pass
138 (U-NII-2C Band)	5690	2.87	0.25	3.12	6.63	10.37	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5290MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5530MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.59dBi > 6dBi, therefore the limit shall be reduced to 11-(6.59-6) = 10.41dBm.
4. For 5610MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 5.47dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5690MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.63dBi > 6dBi, therefore the limit shall be reduced to 11-(6.63-6) = 10.37dBm.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5690	-7.63	0.25	-7.38	-4.91	6.63	29.37	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5690MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 6.63 dBi > 6dBi, therefore the limit shall be reduced to 30-(6.63-6) = 29.37dBm

11ax (80MHz) 2S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
58	5290	2.78	0.38	3.16	4.55	11.00	Pass
106	5530	3.23	0.38	3.61	4.87	11.00	Pass
122	5610	3.23	0.38	3.61	3.87	11.00	Pass
138 (U-NII-2C Band)	5690	3.00	0.38	3.38	5.02	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5290MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.55dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5530MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.87dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5610MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 3.87dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5690MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.02dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5690	-7.75	0.38	-7.37	-4.77	5.02	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5690MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.02 dBi > 6dBi, so the power density limit shall not be reduced..

11ax (80MHz) 3S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
58	5290	4.35	0.42	4.77	2.32	11.00	Pass
106	5530	2.51	0.42	2.93	2.88	11.00	Pass
122	5610	3.49	0.42	3.91	1.99	11.00	Pass
138 (U-NII-2C Band)	5690	3.21	0.42	3.63	3.05	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5290MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 2.32dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5530MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 2.88dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5610MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 1.99dBi < 6dBi, so the power density limit shall not be reduced.
5. For 5690MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 3.05dBi < 6dBi, so the power density limit shall not be reduced.

Chan.	Chan. Freq. (MHz)	Total PSD (dBm/ 300kHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/300kHz)	Total PSD with Duty Factor (dBm/500kHz)	Directional Gain(dBi)	MAX. Limit (dBm/500kHz)	Result
144 (U-NII-3 Band)	5690	-7.46	0.42	-7.04	-4.40	3.05	30	Pass

Note:
1. Total PSD (dBm/500kHz) = PSD(dBm/300kHz) + 2.22dB+ Duty Factor (dB)
2. For 5690MHz: Directional gain = 10 log[$(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/4$] = 3.05 dBi > 6dBi, so the power density limit shall not be reduced..

11ax (160MHz) 1S4T CDD

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
50	5250	0.10	0.40	0.50	6.16	16.84	Pass
*50(U-NII-2C Band)	5250	0.00	0.40	0.40	6.16	10.84	Pass
114	5570	0.91	0.40	1.31	5.70	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5250MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.16dBi > 6dBi, therefore the limit shall be reduced to 17-(6.16-6) = 16.84dBm.
3. For 5250MHz(U-NII-2C Band): Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.16dBi > 6dBi, therefore the limit shall be reduced to 11-(6.16-6) = 10.84dBm.
4. For 5570MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.70dBi < 6dBi, so the power density limit shall not be reduced.

11ax (160MHz) 1S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
50	5250	0.08	0.36	0.44	6.16	16.84	Pass
*50(U-NII-2C Band)	5250	0.03	0.36	0.39	6.16	10.84	Pass
114	5570	0.54	0.36	0.90	5.70	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5250MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.16dBi > 6dBi, therefore the limit shall be reduced to 17-(6.16-6) = 16.84dBm.
3. For 5250MHz(U-NII-2C Band): Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 6.16dBi > 6dBi, therefore the limit shall be reduced to 11-(6.02-6) = 10.84dBm.
4. For 5570MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 5.70dBi < 6dBi, so the power density limit shall not be reduced.

11ax (160MHz) 2S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
50	5250	0.21	0.58	0.79	4.64	17.00	Pass
*50(U-NII-2C Band)	5250	0.14	0.58	0.72	4.64	11.00	Pass
114	5570	0.77	0.58	1.35	4.27	11.00	Pass

Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5250MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.64dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5250MHz(U-NII-2C Band): Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.64dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5570MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 4.27dBi < 6dBi, so the power density limit shall not be reduced.

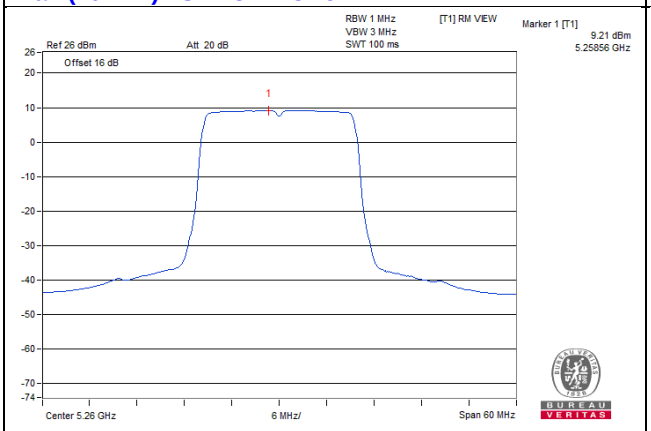
11ax (160MHz) 3S4T TxBF

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with duty factor (dBm/MHz)	Directional Gain(dBi)	MAX. Limit (dBm/MHz)	Result
50	5250	-1.57	0.65	-0.92	2.40	17.00	Pass
*50(U-NII-2C Band)	5250	-1.59	0.65	-0.94	2.40	11.00	Pass
114	5570	-0.57	0.65	0.08	2.25	11.00	Pass

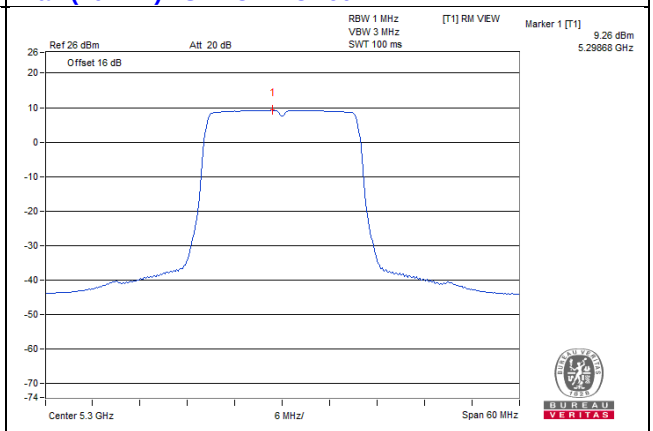
Note:
1. Total PSD (dBm/MHz) = PSD(dBm/MHz) + Duty Factor (dB)
2. For 5250MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.40dBi < 6dBi, so the power density limit shall not be reduced.
3. For 5250MHz(U-NII-2C Band): Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.40dBi < 6dBi, so the power density limit shall not be reduced.
4. For 5570MHz: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + ... + $10^{GN/10}$)/4] = 2.25dBi < 6dBi, so the power density limit shall not be reduced.

PSD SPECTRUM PLOT

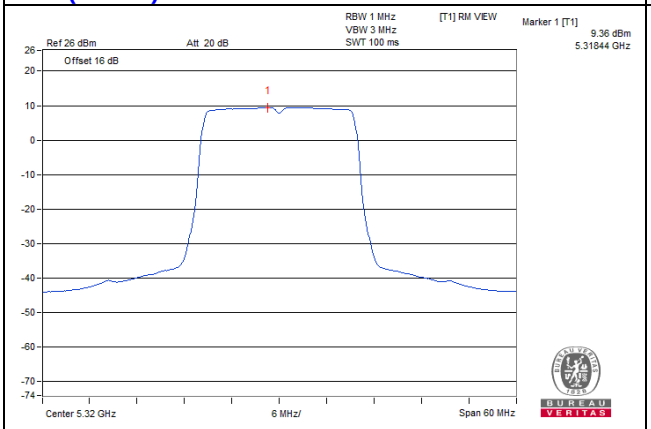
11ax (20MHz) 1S4T CDD CH52



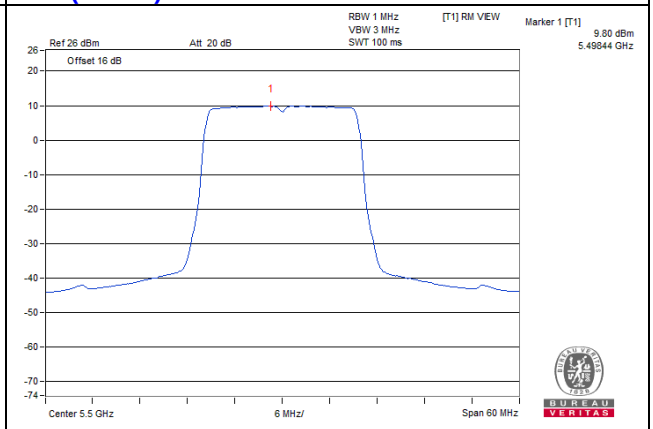
11ax (20MHz) 1S4T CDD CH60



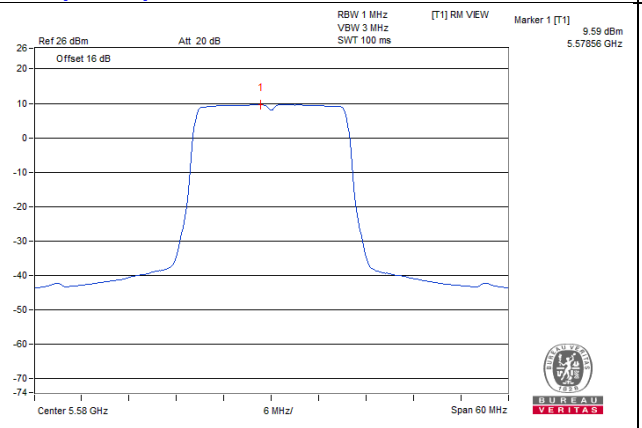
11ax (20MHz) 1S4T CDD CH64



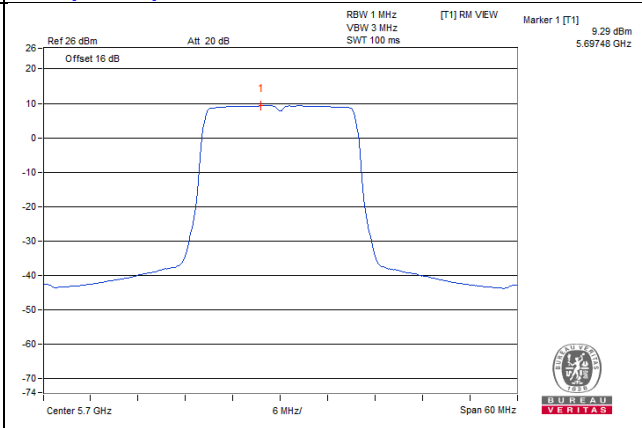
11ax (20MHz) 1S4T CDD CH100



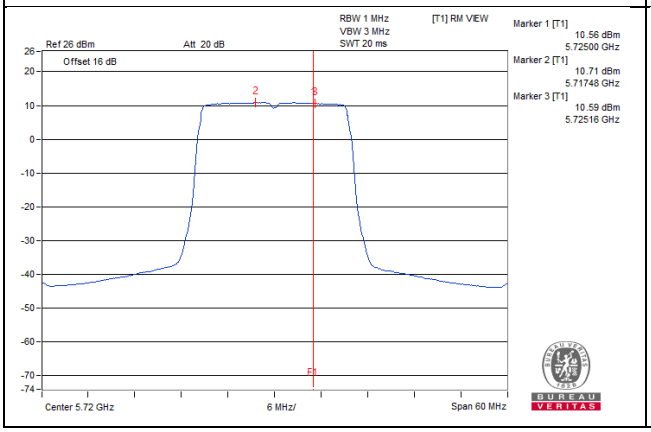
11ax (20MHz) 1S4T CDD CH116



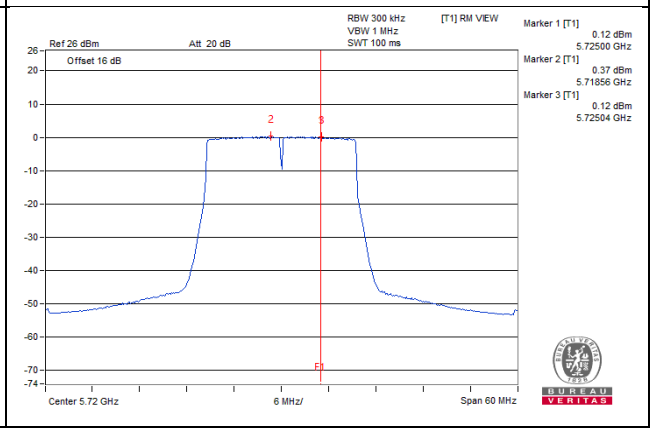
11ax (20MHz) 1S4T CDD CH140



11ax (20MHz) 1S4T CDD CH144 (U-NII-2C Band)

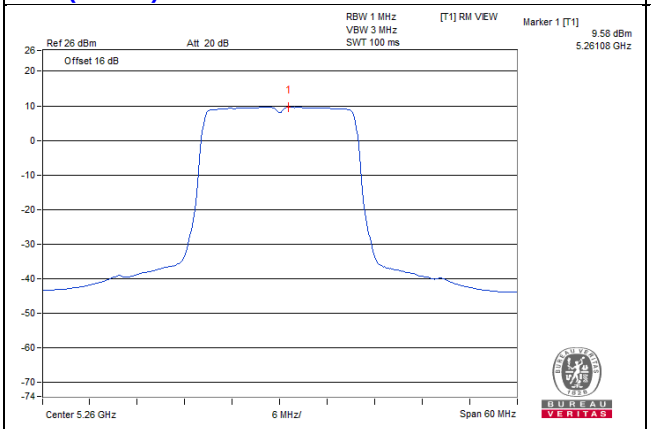


11ax (20MHz) 1S4T CDD CH144 (U-NII-3 Band)

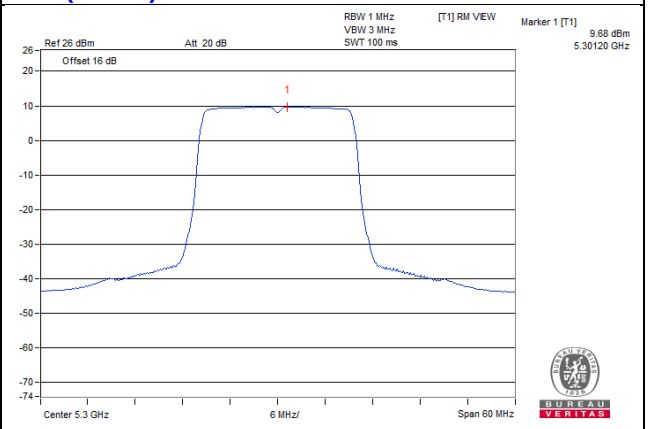


PSD SPECTRUM PLOT

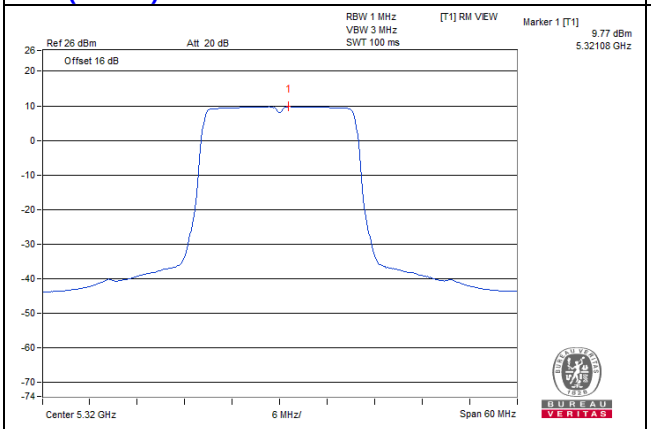
11ax (20MHz) 1S4T TxBF CH52



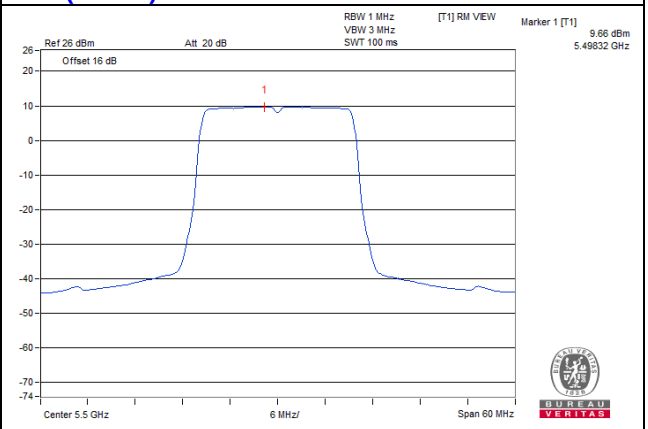
11ax (20MHz) 1S4T TxBF CH60



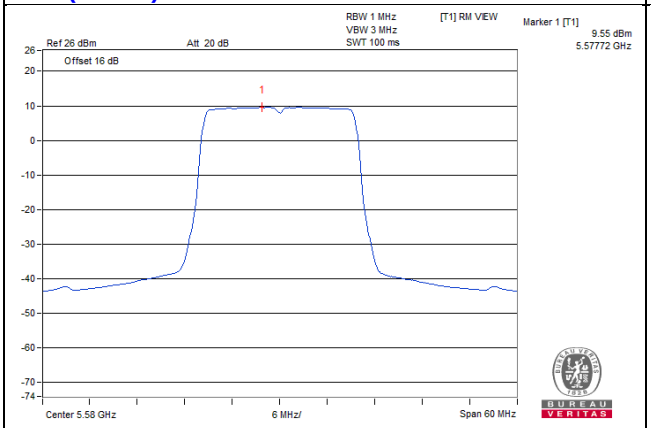
11ax (20MHz) 1S4T TxBF CH64



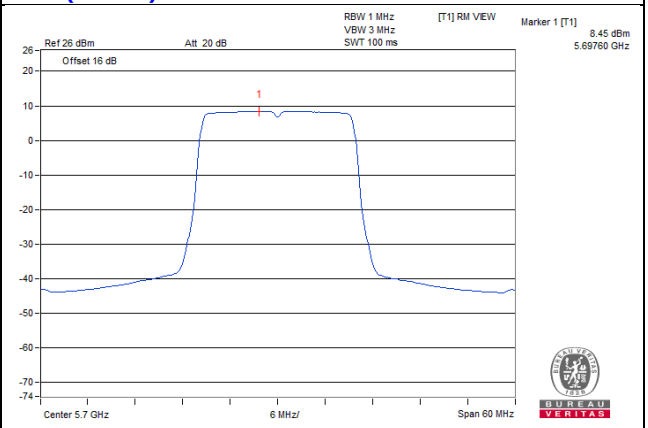
11ax (20MHz) 1S4T TxBF CH100



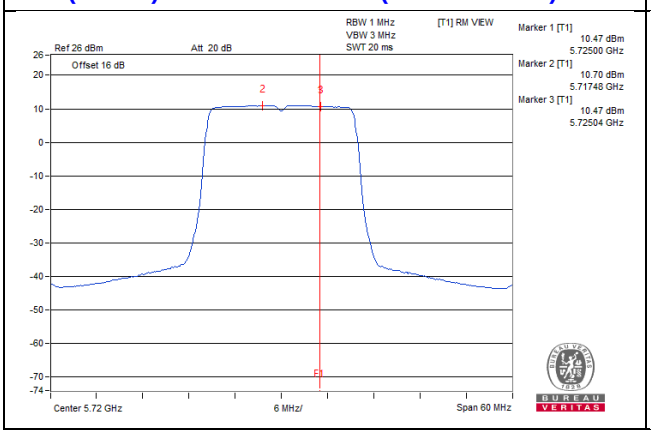
11ax (20MHz) 1S4T TxBF CH116



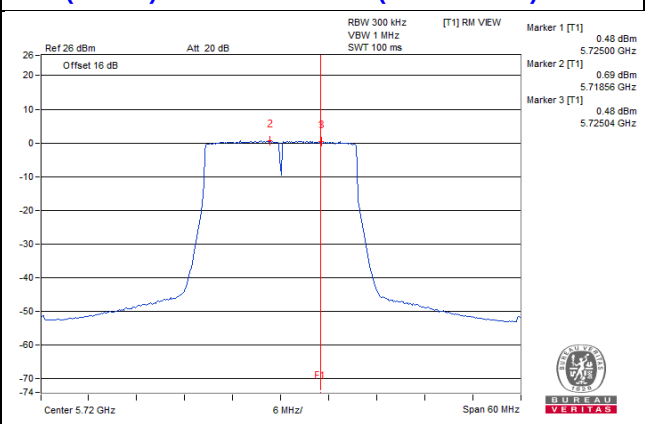
11ax (20MHz) 1S4T TxBF CH140



11ax (20MHz) 1S4T TxBF CH144 (U-NII-2C Band)

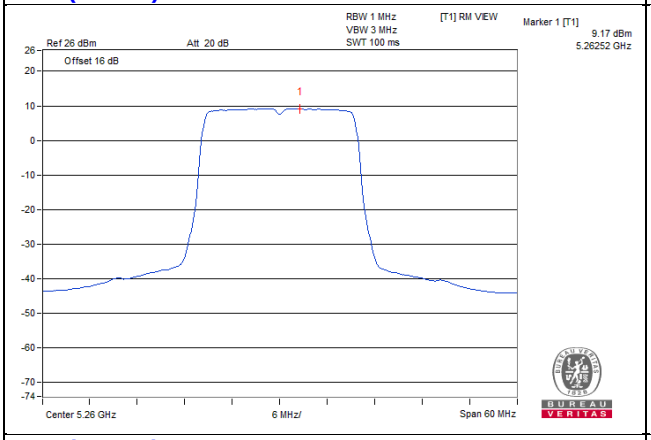


11ax (20MHz) 1S4T TxBF CH144 (U-NII-3 Band)

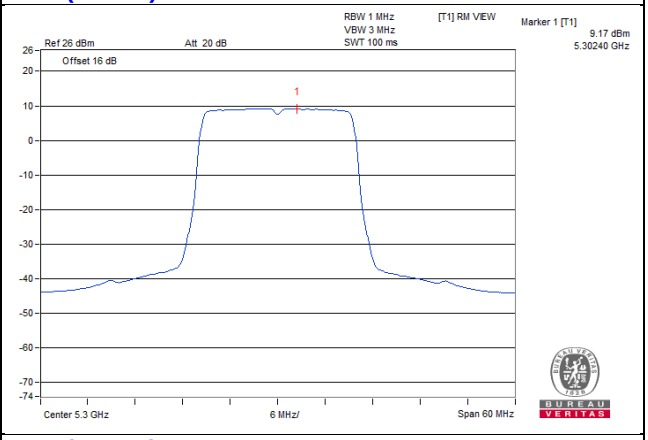


PSD SPECTRUM PLOT

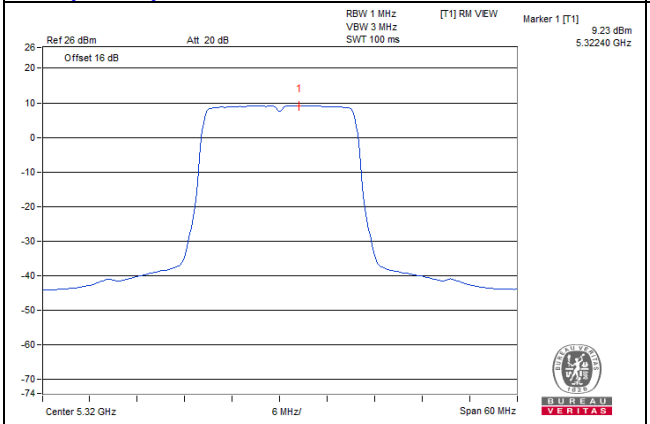
11ax (20MHz) 2S4T TxBF CH52



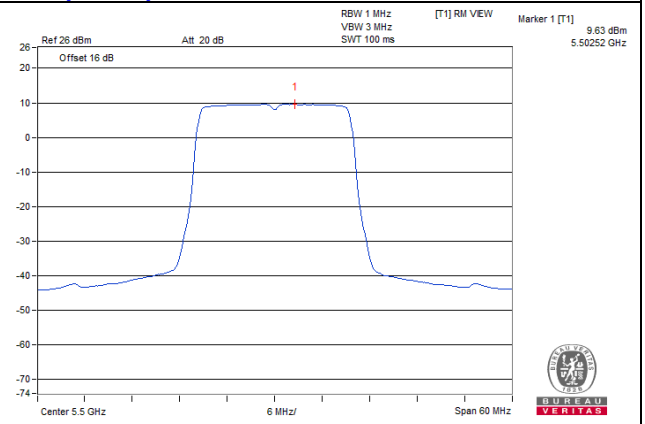
11ax (20MHz) 2S4T TxBF CH60



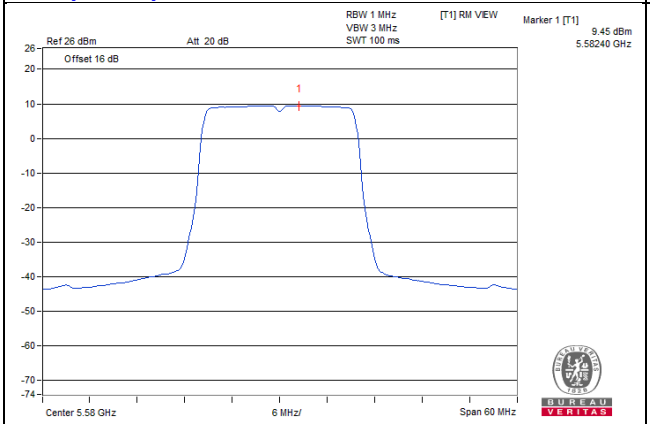
11ax (20MHz) 2S4T TxBF CH64



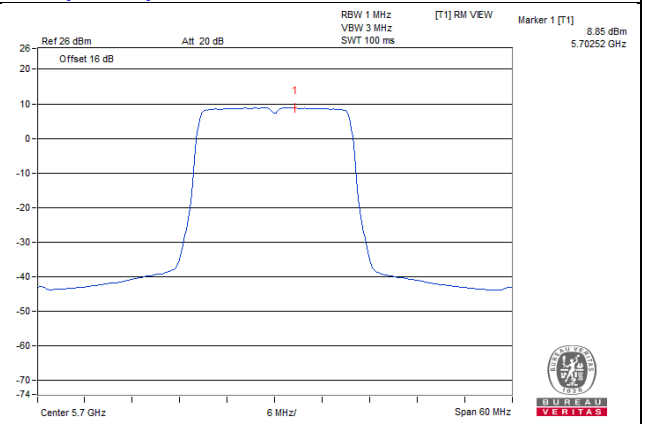
11ax (20MHz) 2S4T TxBF CH100



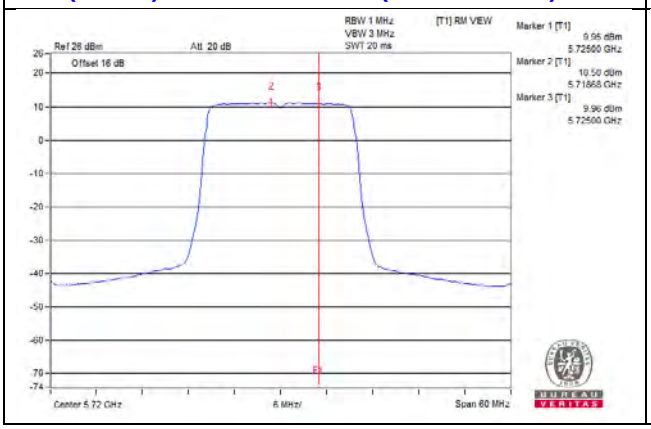
11ax (20MHz) 2S4T TxBF CH116



11ax (20MHz) 2S4T TxBF CH140



11ax (20MHz) 2S4T TxBF CH144 (U-NII-2C Band)



11ax (20MHz) 2S4T TxBF CH144 (U-NII-3 Band)