

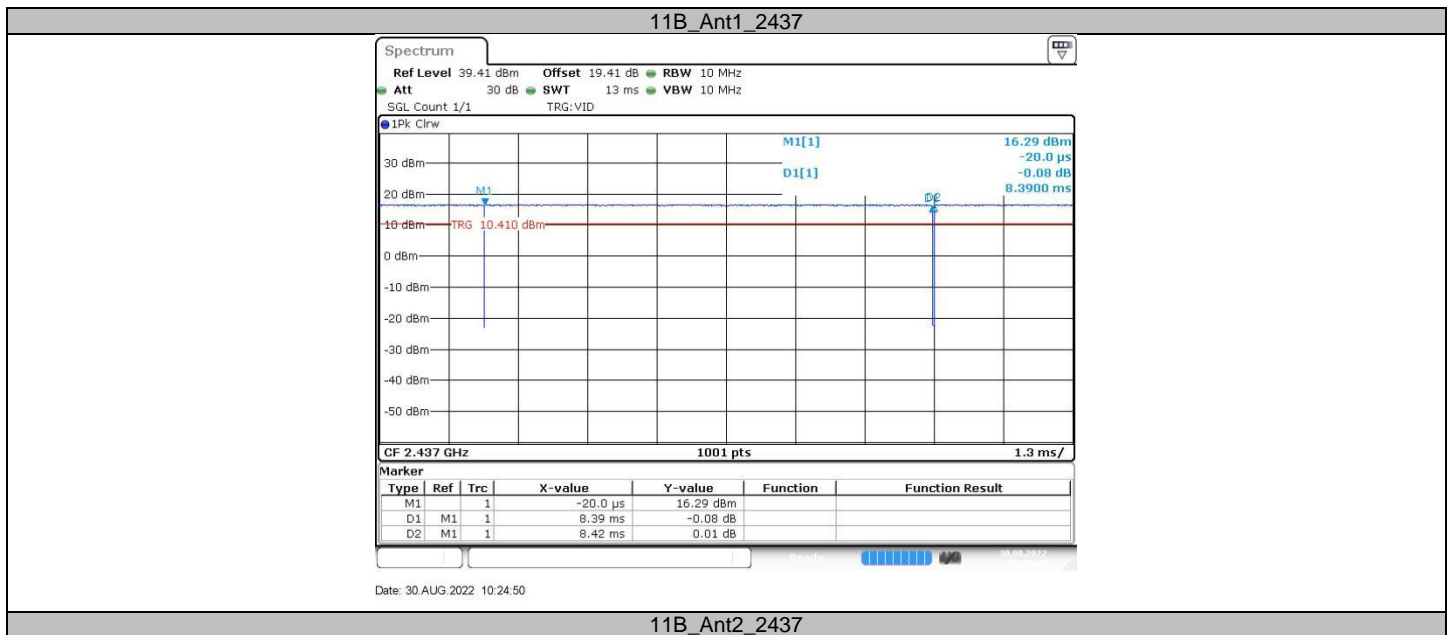
1. Conducted Output Power Measurement and tune-up tolerance

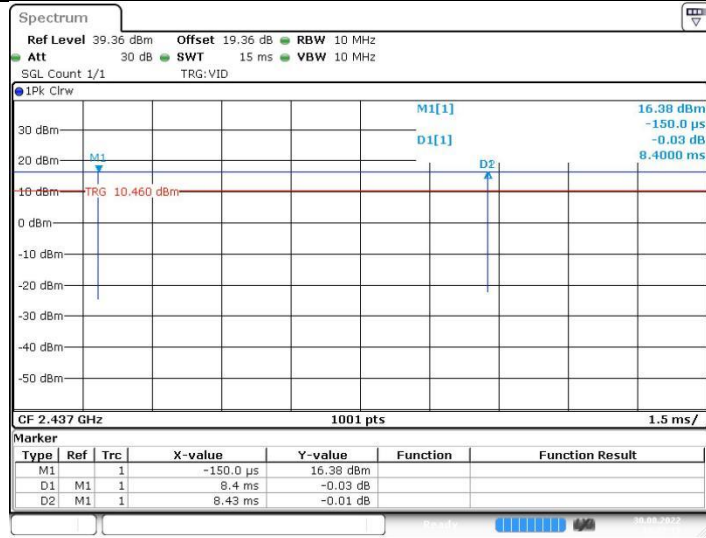
1.1. Power measurement result of 2.4GHz Wi-Fi.

Mode	Channel	Frequency (MHz)	Data Rate	ANT 1		ANT 2		SAR Test	Duty Cycle (%)																
				Average Power (dBm)	Tune-up Limit (dBm)	Average Power (dBm)	Tune-up Limit (dBm)																		
802.11b	1	2412	1Mbps	15.56	16.0	15.88	16.0	Required	99.64																
	6	2437		15.70		15.98																			
	11	2462		15.78		16.00																			
802.11g	1	2412	6Mbps	Not Required	12.0	Not Required	12.0	Excluded	\																
	6	2437								14.5	14.5														
	11	2462								14.5	14.5														
802.11n20	1	2412	MCS0							Not Required	12.0	Not Required	12.0	Excluded	\										
	6	2437														14.5	14.5								
	11	2462														14.5	14.5								
802.11n40	3	2422														MCS0	Not Required	14.0	Not Required	14.0	Excluded	\			
	6	2437																					14.5	14.5	
	9	2452																					14.5	14.5	
802.11ax20	1	2412		MCS0	Not Required	14.5	Not Required	14.5	Excluded														\		
	6	2437																						14.5	14.5
	11	2462																						14.5	14.5
802.11ax40	3	2422	MCS0							Not Required	14.5	Not Required	14.5	Excluded	\										
	6	2437																						14.5	14.5
	9	2452																						14.5	14.5

Duty cycle:

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2437	8.39	8.42	99.64
	Ant2	2437	8.40	8.43	99.64





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Mode	ANT	Frequency (MHz)	Ru Size	Ru Index	Data Rate	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test	Duty Cycle (%)						
11AX20MIMO	Ant1	2412	26Tone	RU0	MCS0	Not Required	11.5	Excluded	\						
				RU4											
				RU8											
			52Tone	RU37											
				RU38											
				RU39											
			106Tone	RU40											
				RU53											
				RU54											
			Ant2	2412						26Tone	RU0				
											RU4				
											RU8				
	52Tone	RU37													
		RU38													
		RU39													
	106Tone	RU40													
		RU53													
		RU54													
	Ant1	2437						26Tone	RU0	MCS0	Not Required	11.5	Excluded	\	
									RU4						
									RU8						
			52Tone	RU37											
				RU38											
				RU39											
106Tone			RU40												
			RU53												
			RU54												
Ant2			2437	26Tone	RU0	MCS0	Not Required	11.5	Excluded						\
					RU4										
					RU8										
	52Tone	RU37													
		RU38													
		RU38													

			106Tone	RU39						
				RU40						
				RU53						
				RU54						
	Ant1	2462	26Tone	RU0						
				RU4						
				RU8						
			52Tone	RU37						
				RU38						
				RU39						
				RU40						
			106Tone	RU53						
	RU54									
	Ant2	2462		26Tone						RU0
										RU4
			RU8							
52Tone			RU37							
			RU38							
			RU39							
	RU40									
106Tone	RU53									
	RU54									
11AX40MIMO	Ant1	2422	242Tone	RU61	MCS0	Not Required	11.5	Excluded	\	
				RU62						
	Ant2	2422	242Tone	RU61						
				RU62						
	Ant1	2437	242Tone	RU61						
				RU62						
	Ant2	2437	242Tone	RU61						
				RU62						
	Ant1	2452	242Tone	RU61						
				RU62						
	Ant2	2452	242Tone	RU61						
				RU62						

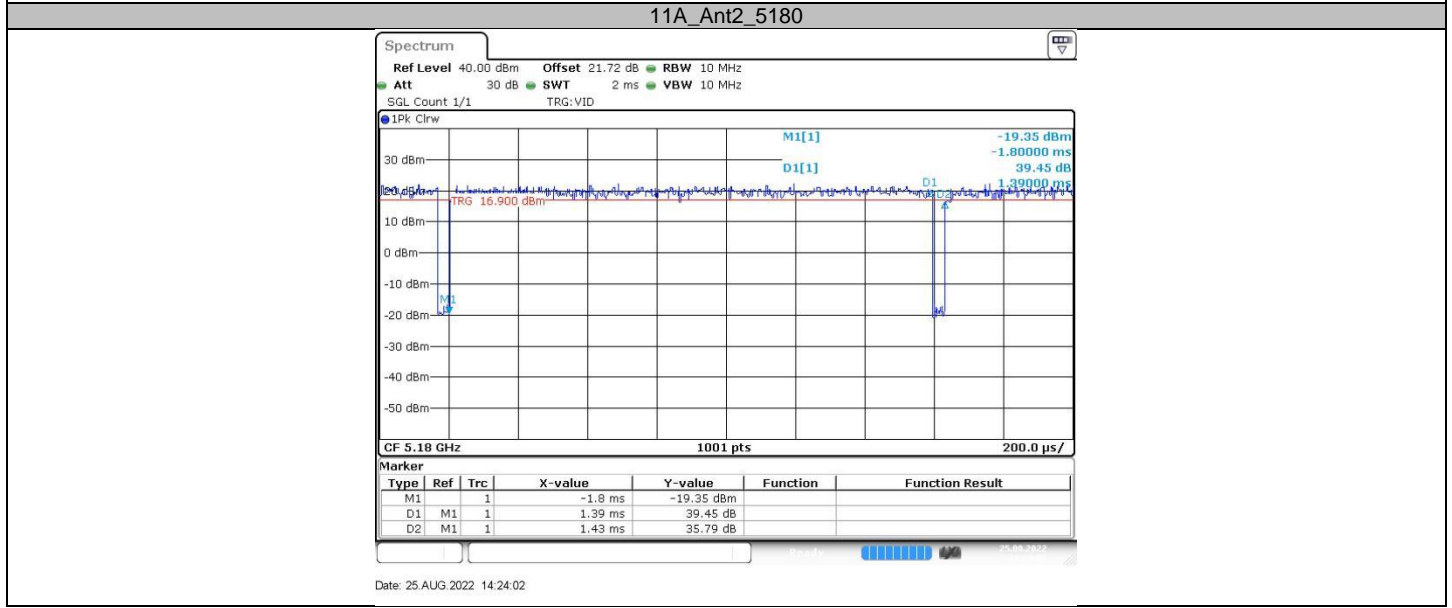
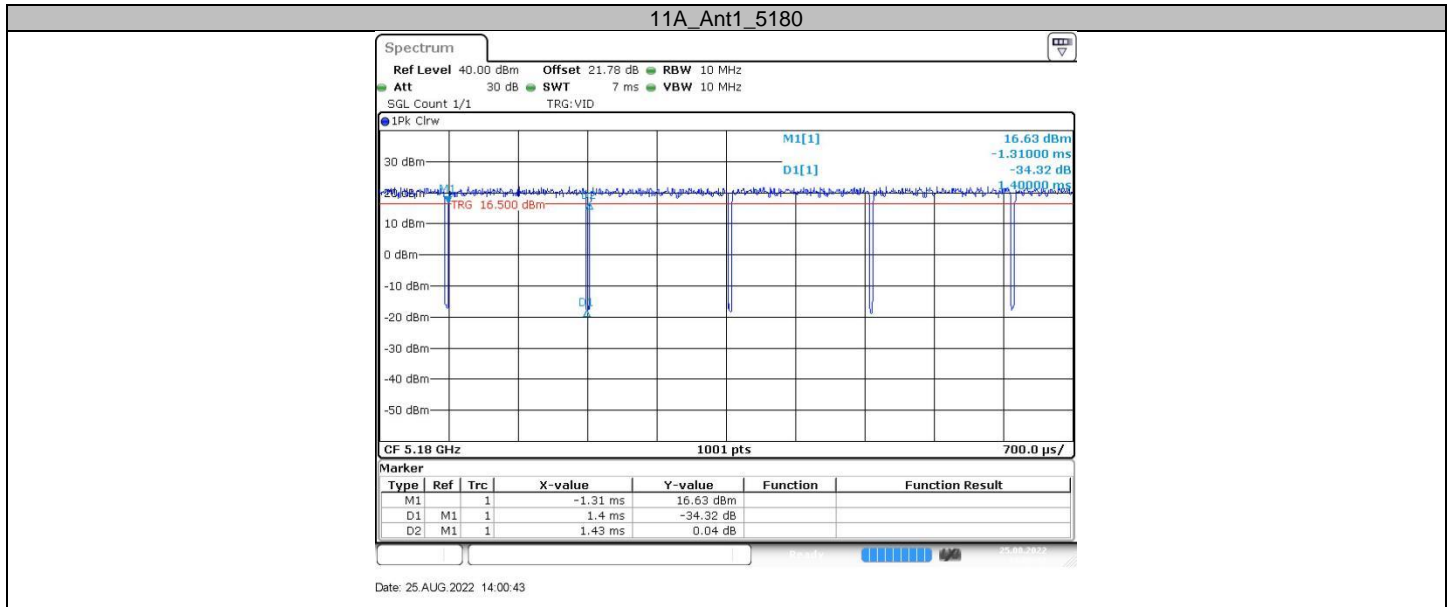
- Note:
- As per KDB 447498 D01 sec.4.1.d) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

1.2. Power measurement result of 5GHz Wi-Fi

Mode	Channel	Frequency (MHz)	Data Rate	ANT 1		SAR Test	ANT 2		SAR Test	Duty Cycle (%)	
				Average Power (dBm)	Tune-up Limit (dBm)		Average Power (dBm)	Tune-up Limit (dBm)			
802.11a	36	5180	6Mbps	14.16	15.0	Required	14.99	15.0	Required	97.90	
	40	5200		14.32	15.0		14.23	15.0			
	44	5220		13.96	15.0		13.36	15.0			
	48	5240		14.12	15.0		14.29	15.0			
	52	5260		14.16	14.5	Excluded	14.29	14.5	Excluded		Not Required
	56	5280		13.80	14.5		14.14	14.5			
	60	5300		13.93	14.5		14.39	14.5			
	64	5320		14.46	14.5		14.42	14.5			
802.11n20	36	5180	MCS0	Not Required	13.5	Excluded	Not Required	13.5	Excluded	\	
	40	5200									
	44	5220									
	48	5240									
	52	5260									
	56	5280									
	60	5300									
64	5320										
802.11ac20	36	5180	MCS0	Not Required	13.5	Excluded	Not Required	13.5	Excluded	\	
	40	5200									
	44	5220									
	48	5240									
	52	5260									
	56	5280									
	60	5300									
64	5320										
802.11ax20	36	5180	MCS0	Not Required	13.5	Excluded	Not Required	13.5	Excluded	\	
	40	5200									
	44	5220									
	48	5240									
	52	5260									
	56	5280									
	60	5300									
64	5320										
802.11n40	38	5190	MCS0	Not Required	14.5	Excluded	Not Required	14.5	Excluded	\	
	46	5230									
	54	5270									
	62	5310									
802.11ac40	38	5190	MCS0	Not Required	14.5	Excluded	Not Required	14.5	Excluded	\	
	46	5230									
	54	5270									
	62	5310									
802.11ax40	38	5190	MCS0	Not Required	14.0	Excluded	Not Required	14.0	Excluded	\	
	46	5230									
	54	5270									
	62	5310									
802.11ac80	42	5210	MCS0	Not Required	12.5	Excluded	Not Required	12.5	Excluded	\	
	58	5290									
802.11ax80	42	5210	MCS0	Not Required	14.0	Excluded	Not Required	14.0	Excluded	\	
	58	5290									

Duty cycle:

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.40	1.43	97.9
	Ant2	5180	1.39	1.43	97.9

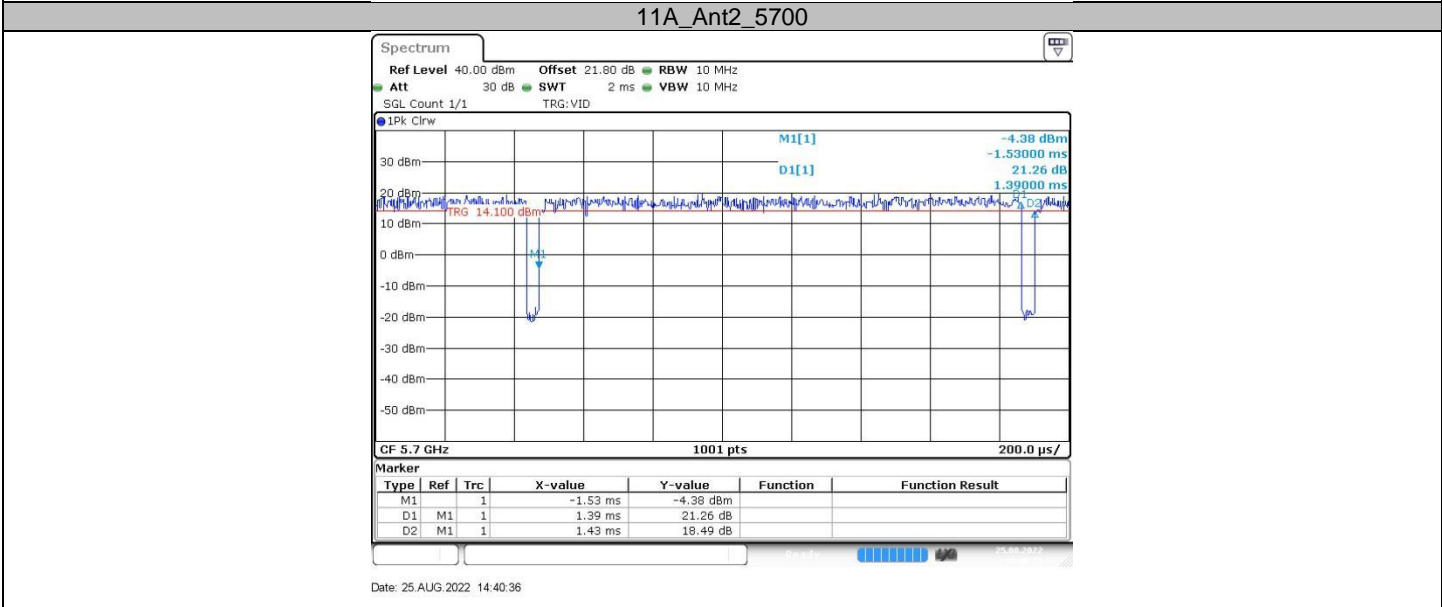
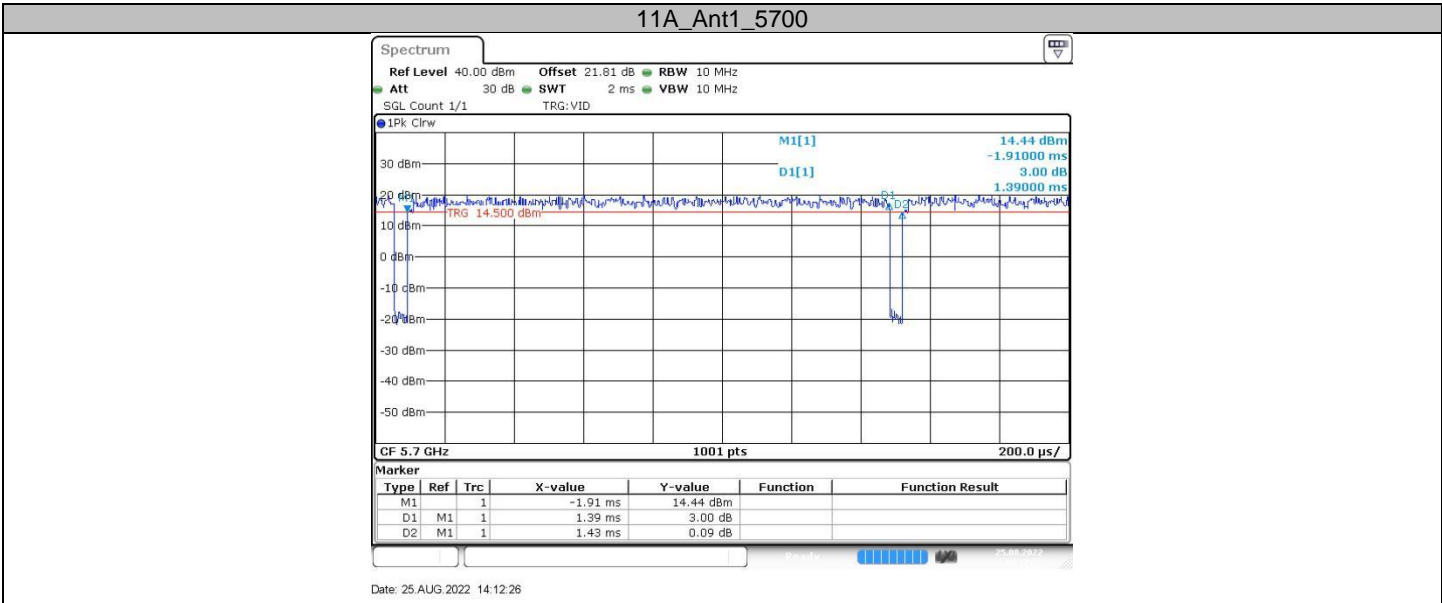


Mode	Channel	Frequency (MHz)	Data Rate	ANT 1		SAR Test	ANT 2		SAR Test	Duty Cycle (%)
				Average Power (dBm)	Tune-up Limit (dBm)		Average Power (dBm)	Tune-up Limit (dBm)		
802.11a	100	5500	6Mbps	14.27	14.5	Required	13.66	14.5	Required	97.2
	104	5520		13.33	14.5		13.31	14.5		
	108	5540		13.64	14.5		13.30	14.5		
	112	5560		13.62	14.5		13.32	14.5		
	116	5580		13.43	14.5		14.03	14.5		
	120	5600		13.32	14.5		13.22	14.5		
	124	5620		13.42	14.5		13.20	14.5		
	128	5640		14.21	14.5		13.00	14.5		
	132	5660		13.87	14.5		13.78	14.5		
	136	5680		13.62	14.5		13.54	14.5		
	140	5700		13.96	14.5		13.40	14.5		
	144	5720		13.44	14.5		13.02	14.5		
	802.11n20	100		5500	MCS0		Not Required	12.5		
104		5520								
108		5540								
112		5560								
116		5580								
120		5600								
124		5620								
128		5640								
132		5660								
136		5680								
802.11ac20	100	5500	MCS0	Not Required	12.5	Excluded	Not Required	12.5	Excluded	\
	104	5520								
	108	5540								
	112	5560								
	116	5580								
	120	5600								
	124	5620								
	128	5640								
	132	5660								
	136	5680								
802.11ax20	100	5500	MCS0	Not Required	13.0	Excluded	Not Required	13.0	Excluded	\
	104	5520								
	108	5540								
	112	5560								
	116	5580								
	120	5600								
	124	5620								
	128	5640								
	132	5660								
	136	5680								
802.11n-HT40	102	5510	MCS0	Not Required	14.0	Excluded	Not Required	14.0	Excluded	\
	110	5550								
	118	5590								
	126	5630								
	134	5670								
802.11ac40	102	5510	MCS0	Not Required	14.0	Excluded	Not Required	14.0	Excluded	\
	110	5550								
	118	5590								
	126	5630								
	134	5670								
802.11ax-HE40	102	5510	MCS0	Not Required	13.0	Excluded	Not Required	13.0	Excluded	\
	110	5550								
	118	5590								
	126	5630								
	134	5670								

802.11ac80	142	5710	MCS0	12.5			12.5
	106	5530					
	122	5610					
	138	5690					
802.11ax80	106	5530	MCS0	13.5			13.5
	122	5610					
	138	5690					

Duty cycle:

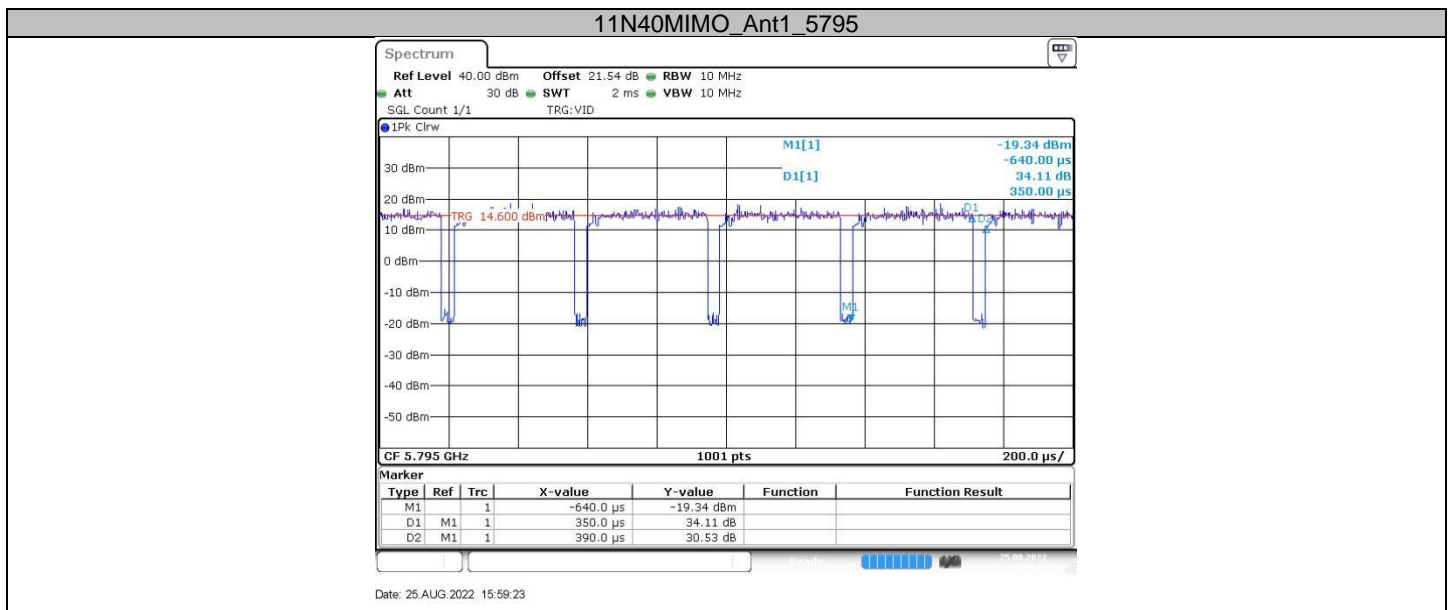
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5700	1.39	1.43	97.20
	Ant2	5700	1.39	1.43	97.20



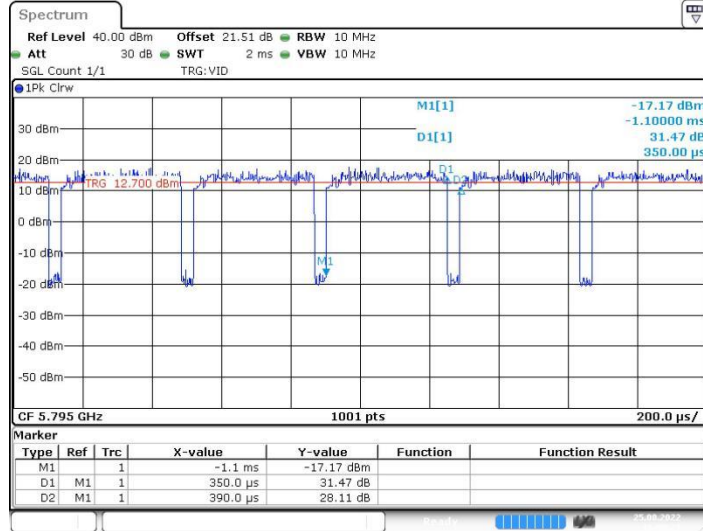
Mode	Channel	Frequency (MHz)	Data Rate	ANT 1		SAR Test	ANT 2		SAR Test	Duty Cycle (%)
				Average Power (dBm)	Tune-up Limit (dBm)		Average Power (dBm)	Tune-up Limit (dBm)		
802.11a	149	5745	6Mbps	Not Required	15.0	Excluded	Not Required	15.0	Excluded	\
	153	5765								
	157	5785								
	161	5805								
	165	5825								
802.11n20	149	5745	MCS0	Not Required	12.0	Excluded	Not Required	12.0	Excluded	\
	153	5765								
	157	5785								
	161	5805								
	165	5825								
802.11ac20	149	5745	MCS0	Not Required	12.0	Excluded	Not Required	12.0	Excluded	\
	153	5765								
	157	5785								
	161	5805								
	165	5825								
802.11ax20	149	5745	MCS0	Not Required	12.5	Excluded	Not Required	12.5	Excluded	\
	153	5765								
	157	5785								
	161	5805								
	165	5825								
802.11n40	151	5755	MCS0	14.25	15.0	Required	14.99	15.0	Required	89.74
	159	5795		14.15			14.55			
802.11ac40	151	5755	MCS0	Not Required	15.0	Excluded	Not Required	15.0	Excluded	\
	159	5795								
802.11ax40	151	5755	MCS0	Not Required	13.0	Excluded	Not Required	13.0	Excluded	\
	159	5795								
802.11ac80	155	5775	MCS0	Not Required	13.0	Excluded	Not Required	13.0	Excluded	\
802.11ax80	155	5775	MCS0	Not Required	12.0	Excluded	Not Required	12.0	Excluded	\

Duty cycle:

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11N40	Ant1	5795	0.35	0.39	89.74
	Ant2	5795	0.35	0.39	89.74



11N40MIMO_Ant2_5795



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Mode	ANT	Frequency (MHz)	Ru Size	Ru Index	Data Rate	Average power (dBm)	Tune-up Limit (dBm)	SAR Test	Duty Cycle (%)
11AX20	Ant1	5180	26Tone	RU0	MCS0	Not Required	1.5	Excluded	\
				RU4	MCS0				
				RU8	MCS0				
			52Tone	RU37	MCS0				
				RU38	MCS0				
				RU39	MCS0				
			106Tone	RU40	MCS0				
				RU53	MCS0				
				RU54	MCS0				
				RU54	MCS0				
	Ant2	5180	26Tone	RU0	MCS0				
				RU4	MCS0				
				RU8	MCS0				
			52Tone	RU37	MCS0				
				RU38	MCS0				
				RU39	MCS0				
			106Tone	RU40	MCS0				
				RU53	MCS0				
				RU54	MCS0				
				RU54	MCS0				
Ant1	5200	26Tone	RU0	MCS0					
			RU4	MCS0					
			RU8	MCS0					
		52Tone	RU37	MCS0					
			RU38	MCS0					
			RU39	MCS0					
		106Tone	RU40	MCS0					
			RU53	MCS0					
			RU54	MCS0					
			RU54	MCS0					
Ant2	5200	26Tone	RU0	MCS0					

			106Tone	RU53	MCS0
				RU54	MCS0
	Ant2	5280	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0
				RU38	MCS0
				RU39	MCS0
				RU40	MCS0
			106Tone	RU53	MCS0
				RU54	MCS0
	Ant1	5320	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0
				RU38	MCS0
				RU39	MCS0
				RU40	MCS0
			106Tone	RU53	MCS0
				RU54	MCS0
	Ant2	5320	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0
				RU38	MCS0
				RU39	MCS0
				RU40	MCS0
			106Tone	RU53	MCS0
				RU54	MCS0
	Ant1	5500	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0
				RU38	MCS0
				RU39	MCS0
				RU40	MCS0
			106Tone	RU53	MCS0
				RU54	MCS0
	Ant2	5500	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0
				RU38	MCS0
				RU39	MCS0
				RU40	MCS0
			106Tone	RU53	MCS0
				RU54	MCS0
	Ant1	5580	26Tone	RU0	MCS0
				RU4	MCS0
				RU8	MCS0
			52Tone	RU37	MCS0

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			106Tone	RU38	MCS0			
				RU39	MCS0			
				RU40	MCS0			
				RU53	MCS0			
				RU54	MCS0			
	Ant2	5580	26Tone		RU0			MCS0
					RU4			MCS0
					RU8			MCS0
			52Tone		RU37			MCS0
					RU38			MCS0
					RU39			MCS0
			106Tone		RU40			MCS0
					RU53			MCS0
			RU54	MCS0				
			Ant1	5700	26Tone			
	RU4	MCS0						
	RU8	MCS0						
	52Tone				RU37			MCS0
					RU38			MCS0
					RU39			MCS0
	106Tone				RU40			MCS0
					RU53			MCS0
	RU54	MCS0						
	Ant2	5700			26Tone			
			RU4	MCS0				
			RU8	MCS0				
			52Tone		RU37			MCS0
					RU38			MCS0
RU39					MCS0			
106Tone				RU40	MCS0			
				RU53	MCS0			
RU54			MCS0					
Ant1			5745	26Tone		RU0	MCS0	
	RU4	MCS0						
	RU8	MCS0						
	52Tone			RU37	MCS0			
				RU38	MCS0			
				RU39	MCS0			
	106Tone			RU40	MCS0			
				RU53	MCS0			
	RU54	MCS0						
	Ant2	5745		26Tone		RU0	MCS0	
RU4			MCS0					
RU8			MCS0					
52Tone				RU37	MCS0			
				RU38	MCS0			
				RU39	MCS0			
106Tone				RU40	MCS0			
				RU53	MCS0			
RU54			MCS0					
Ant1			5785	26Tone		RU0	MCS0	

-0.5

			52Tone	RU4	MCS0				
				RU8	MCS0				
				RU37	MCS0				
				RU38	MCS0				
			RU39	MCS0					
			RU40	MCS0					
			106Tone	RU53	MCS0				
			RU54	MCS0					
	Ant2	5785	26Tone	RU0	MCS0				
				RU4	MCS0				
				RU8	MCS0				
			52Tone	RU37	MCS0				
				RU38	MCS0				
				RU39	MCS0				
			RU40	MCS0					
			106Tone	RU53	MCS0				
	RU54	MCS0							
	Ant1	5825	26Tone	RU0	MCS0				
				RU4	MCS0				
				RU8	MCS0				
			52Tone	RU37	MCS0				
				RU38	MCS0				
				RU39	MCS0				
			RU40	MCS0					
106Tone			RU53	MCS0					
RU54	MCS0								
Ant2	5825	26Tone	RU0	MCS0					
			RU4	MCS0					
			RU8	MCS0					
		52Tone	RU37	MCS0					
			RU38	MCS0					
			RU39	MCS0					
		RU40	MCS0						
		106Tone	RU53	MCS0					
RU54	MCS0								
11AX40	Ant1	5190	242Tone	RU61	MCS0	Not Required	1.0	Excluded	\
				RU62	MCS0				
	Ant2	5190	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5230	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5230	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5270	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5270	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5310	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5310	242Tone	RU61	MCS0				
				RU62	MCS0				

	Ant1	5510	242Tone	RU61	MCS0		0.0		
				RU62	MCS0				
	Ant2	5510	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5550	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5550	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5670	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5670	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5755	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant2	5755	242Tone	RU61	MCS0				
				RU62	MCS0				
	Ant1	5795	242Tone	RU61	MCS0				
				RU62	MCS0				
Ant2	5795	242Tone	RU61	MCS0					
			RU62	MCS0					
11AX80	Ant1	5210	484Tone	RU65	MCS0	Not Required	5.0	Excluded	\
				RU66	MCS0				
	Ant2	5210	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant1	5290	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant2	5290	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant1	5530	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant2	5530	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant1	5610	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant2	5610	484Tone	RU65	MCS0				
				RU66	MCS0				
	Ant1	5775	484Tone	RU65	MCS0				
				RU66	MCS0				
Ant2	5775	484Tone	RU65	MCS0					
			RU66	MCS0					

- Note:
- As per KDB 447498 D01 sec.4.1.d) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

