

reference FCC ID: BCG-E8947A

variants FCC ID: BCG-E8951A, BCG-E8952A, BCG-E8953A

Report number: 15496278-E6 FCC IC 802.15.4ab UNII Report

Test Item	250Kbps	
	ANT6	ANT5
Duty Cycle	Reference	
99% and 26dB Bandwidth	Reference	
6dB Bandwidth	Reference	
Output Power and PSD	Reference	
Radiated band edge	Retest	Reference
Radiated Spurious Emissions below 1GHz	Retest	
Radiated Spurious Emissions above 18GHz	Retest	Reference
AC Mains Conducted Emissions	Retest	

Report number: 15496278-E7 FCC NB UNII-1 & UNII-3 Report

Test Item	Modes	Power	Band	All modes		
				ANT6	ANT5	TXBF
Duty Cycle	BDR/BLE/HDR	High/Low	UNII-1, -3	Reference		Reference
99% and 26dB Bandwidth	BDR/BLE/HDR	High/Low	UNII-1, -3	Reference		Reference
6dB Bandwidth	BDR/BLE/HDR	High/Low	UNII-3	Reference		Reference
Output Power and PSD	BDR/BLE/HDR	High/Low	UNII-1, -3	Reference		Reference
Radiated band edge	BDR/BLE/HDR	High/Low	UNII-1, -3	Retest	Reference	Retest
Radiated Spurious Emissions 1- 18 GHz	BDR/BLE/HDR	High/Low	UNII-1, -3	Retest	Reference	Retest
Radiated Spurious Emissions below 1GHz	BDR/BLE/HDR	High/Low	Worst Case	Retest		
Radiated Spurious Emissions above 18GHz	BDR/BLE/HDR	High/Low	Worst Case	Retest		
AC Mains Conducted Emissions	BDR/BLE/HDR	High/Low	Worst Case	Retest		

Report number: 15496278-E9 FCC IC UNII-5 NB Report

Test Item	Modes	Power	SISO		TXBF
			ANT6	ANT5	ANT6 + ANT5
Duty Cycle	BDR/BLE/HDR	High/Low	Reference		
99% BW	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
26dB BW	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
Output Power EIRP	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
PSD EIRP	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
Radiated band edge	BDR/BLE/HDR	High/Low	Retest	Reference	Retest
Radiated Spurious Emissions 1-18GHz	BDR/BLE/HDR	High/Low	Covered by TXBF		Retest
Radiated Spurious Emissions below 1GHz	Worst Case	Worst Case	Reference		
Radiated Spurious Emissions above 18GHz	Worst Case	Worst Case	Reference		
AC Mains Conducted Emissions	Worst Case	Worst Case	Reference		
Transmit Power Control Mechanism	HDR4	High	Reference		

Report number: 15496278-E10 FCC UNII 5G Conducted Report

Test Item	UNII Bands	SISO a/ HE/EHT All Rates		2Tx CDD HE/EHT	2Tx SDM HE/EHT
				All Rates	All Rates
	1/2A/2C/3	ANT6	ANT5	ANT6+5	ANT6+5
Duty Cycle	1/2A/2C/3	Reference			Covered by MIMO
99%/26dB BW, Output Power and PSD	1/2A/2C/3	Reference			
BW verification of channel puncturing in the DFS bands	2A/2C	Reference			
6dB BW	2C/3	Reference			

Report number: 15496278-E10 & E11 FCC IC UNII 5G Radiated Report

Test Item	UNII Bands	SISO a/ HE/EHT All Rates		2Tx CDD HE/EHT	2Tx SDM HE/EHT
				All Rates	All Rates
	1/2A/2C/3	ANT6	ANT5	ANT6+5	ANT6+5
Radiated band edge	1/2A/3	Retest	Reference	Reference	
	2C	Reference			
Radiated Spurious Emissions 1GHz to 18GHz	1/2A/2C/3	Covered by MIMO		Retest	
Radiated Spurious Emissions below 1GHz	1/2A/2C/3	Retest			
Radiated Spurious Emissions above 18GHz	1/2A/2C/3	Retest			
AC Mains Conducted Emissions	1/2A/2C/3	Retest			

Report number: 15496278-E12 FCC UNII 6G Conducted Report

Test Item	Power mode	UNII Bands	SISO a/ HE/EHT All Rates		2Tx CDD HE/EHT All Rates	2Tx SDM HE/EHT All Rates	
			ANT6	ANT5	ANT6+5	ANT6+5	
Duty Cycle	LP/SP/VLP	5/6/7/8	Reference				
99%/26dB BW, Output Power EIRP/PSD EIRP, Spurious Emissions In-band- Emissions Mask	LP	5	Retest	Reference	Retest	Retest	
		6	Retest	Reference	Retest	Retest	
		7	Retest	Reference	Reference CH 119, 6545MHz retest	Reference CH 119, 6545MHz retest	
		8	Reference CH 187, 6885MHz retest	Reference	Reference	Reference	
	SP	5	RU: Retest SU: Reference	Reference	RU: Retest SU: Reference	RU: Retest ^{Note 1} SU: Reference	
		7	RU: Retest SU: Reference	Reference	Reference CH 119, 6545MHz retest	Reference CH 119, 6545MHz retest	
		VLP	5	Retest	Reference	Retest	Retest
			6	Retest	Reference	Retest ^{Note 2}	Retest ^{Note 2}
	7		Retest	Reference	Reference CH 119, 6545MHz retest	Reference CH 119, 6545MHz retest	
	8		Reference CH 187, 6885MHz retest	Reference	Reference	Reference	
	Dual client test	LP/SP	5/6/7/8	Reference			
	VLP Transmit Power Control (TPC)	VLP	5/6/7/8	Reference			
	Radiated band edge	LP/SP/VLP	5/6/7/8	Retest	Reference	Retest	
	Radiated Spurious Emissions 1GHz to 18GHz	LP/SP/VLP	5/6/7/8	Covered by MIMO		Retest	
	Radiated Spurious Emissions below 1GHz	LP/SP/VLP	5/6/7/8	Reference			
	Radiated Spurious Emissions above 18GHz	LP/SP/VLP	5/6/7/8	Reference			
AC Mains Conducted Emissions	LP/SP/VLP	5/6/7/8	Reference				

NOTE 1: Except RU partial tones CH 1, 7, are referenced.

NOTE 2: Except CH 115 242T is referenced.

Report number: 15496278-E12 & E14 FCC IC UNII 6G Radiated Report

Test Item	Power mode	UNII Bands	SISO a/ HE/EHT All Rates		2Tx CDD HE/EHT All Rates	2Tx SDM HE/EHT All Rates
			ANT6	ANT5	ANT6+5	ANT6+5
Radiated band edge	LP/SP/VLP	5/6/7/8	Retest	Reference	Retest	
Radiated Spurious Emissions 1GHz to 18GHz	LP/SP/VLP	5/6/7/8	Covered by MIMO		Retest	
Radiated Spurious Emissions below 1GHz	LP/SP/VLP	5/6/7/8	Reference			
Radiated Spurious Emissions above 18GHz	LP/SP/VLP	5/6/7/8	Reference			
AC Mains Conducted Emissions	LP/SP/VLP	5/6/7/8	Reference			