

V ECTOR							
		FCC File Number	0162-EX-ST-2018				
		FCC Point of Contact	Leann Nguyen				
Applicant	FRN 26456863	FCC Date Received	31-Jan-18	FCC Date Approved			
Applicant	Name Vector Launch Inc.						
Applicant	Date Submitted	31-Jan-18	Approved Callsign				
Applicant	Date Required	01-Mar-18					
Applicant	File Number	GN-0276-VSS-NEW					
FCC POC	Name Leann Nguyen	Title Engineer	Phone (888) 225-5322	Email	Leann.Nguyen@fcc.gov		
FCC POC Agency	Name Federal Communications Commission Attn: OET -		Direct Phone (888) 225-5322	Fax (888) 418-0232			
FCC POC Agency	Street 445 12th Street SW	City Washington	State DC	Zip Code	20554		
Applicant POC1	Name Michael C Maguire	Title Senior Systems Engineer	Phone (626) 676-7230	Email	radio@vector-launch.com		
Applicant POC2	Name Carole Leon	Title Business Operations Mgr	Phone (520) 207-9734	Email	radio@vector-launch.com		
Applicant Company	Name Vector Launch Inc. Attn: Radio Licensing		Fax N/A				
Applicant Address	Street 824 East 16th Street	City Tucson	State AZ	Zip Code	85719-6603		
Applicant Info	FRN 26456863	CAGEC 7MLT0	EIN 811784147	DUNS	80264639		
Stopbuzz	Number +1 (520) 207 9734						
License Type	Experimental (STA)	For Launch Vehicle	Series Vector-R	Category	Block-0.00X		
Number of Links	3						
Link 1	Link 2	Link 3					
Telemetry Downlink	Telemetry Downlink	Telemetry Downlink					
Space Telemetering Space Station ER	Space Telemetering Space Station ER	Space Telemetering Space Station ER					
S-Band (TM - Upper) 2360 - 2390 MHz	S-Band (TM - Upper) 2360 - 2390 MHz	S-Band (TM - Upper) 2360 - 2390 MHz					
Band Edge (Lower) 2360 MHz	Band Edge (Lower) 2360 MHz	Band Edge (Lower) 2360 MHz					
Band Edge (Upper) 2390 MHz	Band Edge (Upper) 2390 MHz	Band Edge (Upper) 2390 MHz					
Band 30 MHz	Band 30 MHz	Band 30 MHz					
Center Frequency 2364.5 MHz	Center Frequency 2370.5 MHz	Center Frequency 2382.5 MHz					
Polarization RHCP	Polarization RHCP	Polarization RHCP					
Transmit Power 10 W	Transmit Power 20 W	Transmit Power 25 W					
Transmit Power 10 dBW	Transmit Power 13 dBW	Transmit Power 14 dBW					
Antenna Gain 0 dBi	Antenna Gain 0 dBi	Antenna Gain 0 dBi					
EIRP 10 dBW	EIRP 13 dBW	EIRP 14 dBW					
Data Type Digital	Data Type Digital	Data Type Digital					
Modulation SQPSK	Modulation SQPSK	Modulation SQPSK					
Data Rate 128 kbps	Data Rate 256 kbps	Data Rate 5000 kbps					
FEC Type LDPC	FEC Type LDPC	FEC Type LDPC					
Bandwidth Multiplier 0.90	Bandwidth Multiplier 0.90	Bandwidth Multiplier 0.90					
Maximum Approach Velocity 8000 m/s							
Maximum Doppler (x 2) 126.192 kHz	Maximum Doppler (x 2) 126.513 kHz	Maximum Doppler (x 2) 127.153 kHz					
Necessary Bandwidth 241.008 kHz	Necessary Bandwidth 355.824 kHz	Necessary Bandwidth 4611.192 kHz					
Necessary Bandwidth (Lower) 2364.379 MHz	Necessary Bandwidth (Lower) 2370.322 MHz	Necessary Bandwidth (Lower) 2380.194 MHz					
Necessary Bandwidth (Upper) 2364.621 MHz	Necessary Bandwidth (Upper) 2370.678 MHz	Necessary Bandwidth (Upper) 2384.806 MHz					
Power Spectral Density per 4 kHz -4.6 dBW/4 kHz	Power Spectral Density per 4 kHz -4.6 dBW/4 kHz	Power Spectral Density per 4 kHz -16.5 dBW/4 kHz	-17.6 dBW/4 kHz				
Emission Designator 241KG1DCT	Emission Designator 355KG1DCT	Emission Designator 4M6G1DCT					
Transmitter Manufacturer Quasonix	Transmitter Manufacturer Quasonix	Transmitter Manufacturer Quasonix					
Transmitter Model Number QSX-VSR2-1100	Transmitter Model Number QSX-VSR2-1100	Transmitter Model Number QSX-VSR2-1100					
Launch Site	Name Randburg CA (FAR)	Latitude 35-20-53 N	Longitude 117-48-36 W	Elevation	1100 ft		
Inclination (Min)	Low altitude	Inclination (Max) Low altitude	Altitude (Min) Low altitude	Altitude (Max)	Low altitude		
Launch Site	Name	Latitude	Longitude	Elevation			
Inclination (Min)		Inclination (Max)	Altitude (Min)	Altitude (Max)			
Launch Site	Name	Latitude	Longitude	Elevation			
Inclination (Min)		Inclination (Max)	Altitude (Min)	Altitude (Max)			