

## Port of Tauranga Methyl Bromide Fumigation Monitoring – Interim Report 14

Fumigation and venting details can be found in Table 1.

*Table 1: Monitoring details*

Date	12/11/2020
Fumigation Type	Log stacks
Fumigation amount (kg) – during 1hr sampling	54
Fumigation Location	B Block
Venting Time	-
*Sample time (1hour)	08:11-09:11
*Predominant wind direction over 1 hour sample	SSW/SW
*Average wind speed over 1 hour period	2.0m/s
Sample date (24 hour)	12/11/2020 – 13/11/2020
Sample time/s (24 hour)	08:05-08:05
Other venting in the 24 hour period	1 x row 4 berth and 1 x row 5 berth

\*1 hour Sample times differ from the total venting time i.e. venting went on for longer than the 1 hour sample period


\*From observations at the time of sampling, measured met data is provided in a separate document.

*Table 2: Fumigation and Venting Details 12/11/2020*

Row	Log Volume (JAS)	Covered Volume (m <sup>3</sup> )	Methyl Bromide used (kg)	Pre-vent Concentration (ppm)	Methyl Bromide Released (kg)
B49	379	668	54	Not recorded by Genera	Not recorded by Genera

Map 1: Fumigation and Sampling Locations 12/11/2020

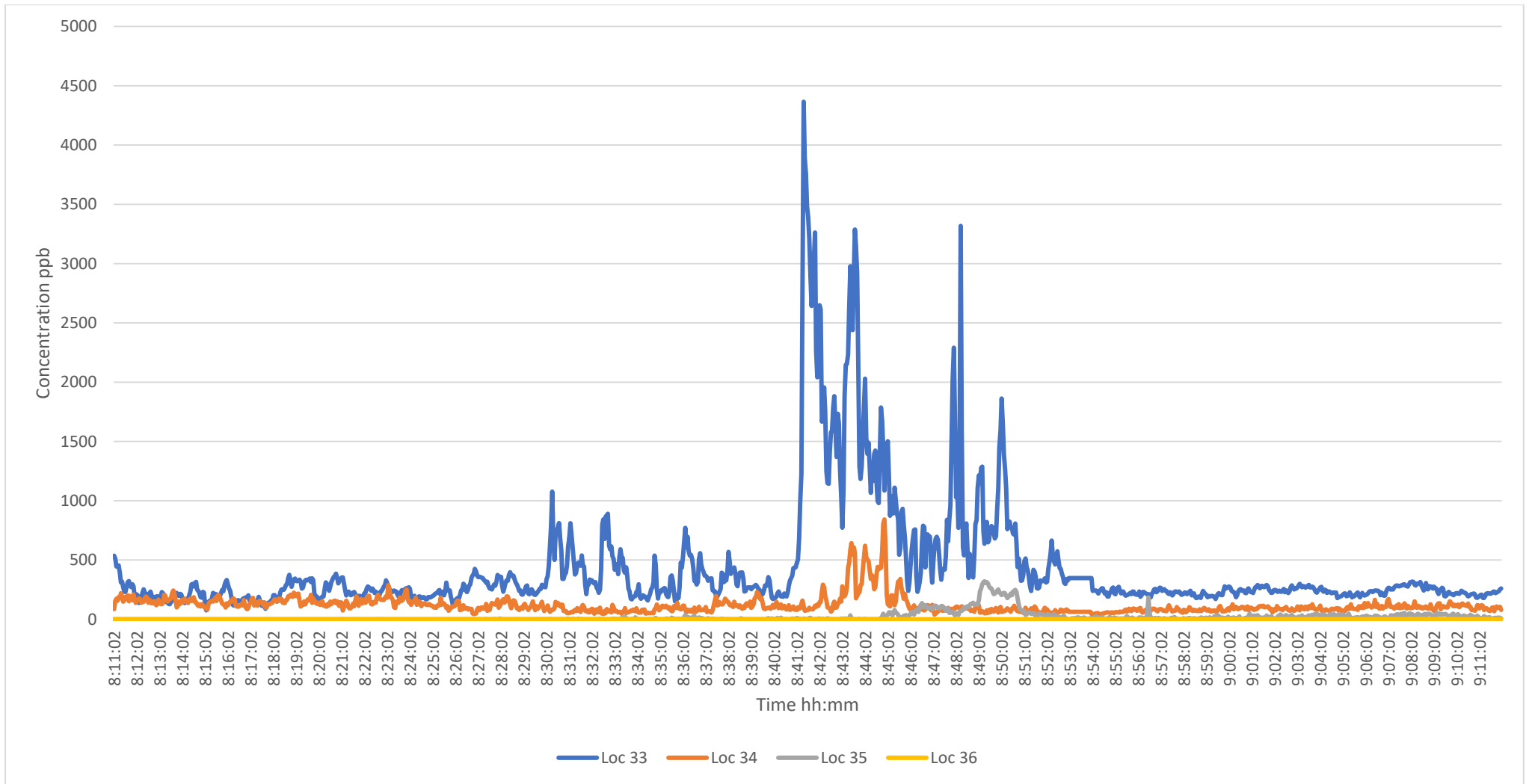


 Log stack venting (please note locations are only approximate)

 Sample locations

1-hour canister sampling and TVOC monitoring was undertaken at locations 33, 34, 35 and 36 from 08:11-09:11. 24-hour canister sampling was also undertaken at location 35 and 34 from 08:05 12/11/20 to 08:05 13/11/20. The average and peak TVOC measurements for the sampling period are shown below in Table 3 and Graphs 1-5. Canister sampling results can be found in Table 4.

Graph 1: Real-time Total Volatile Organic Compound (TVOC) measurements at all 1-hour sampling locations on the 12/11/2020



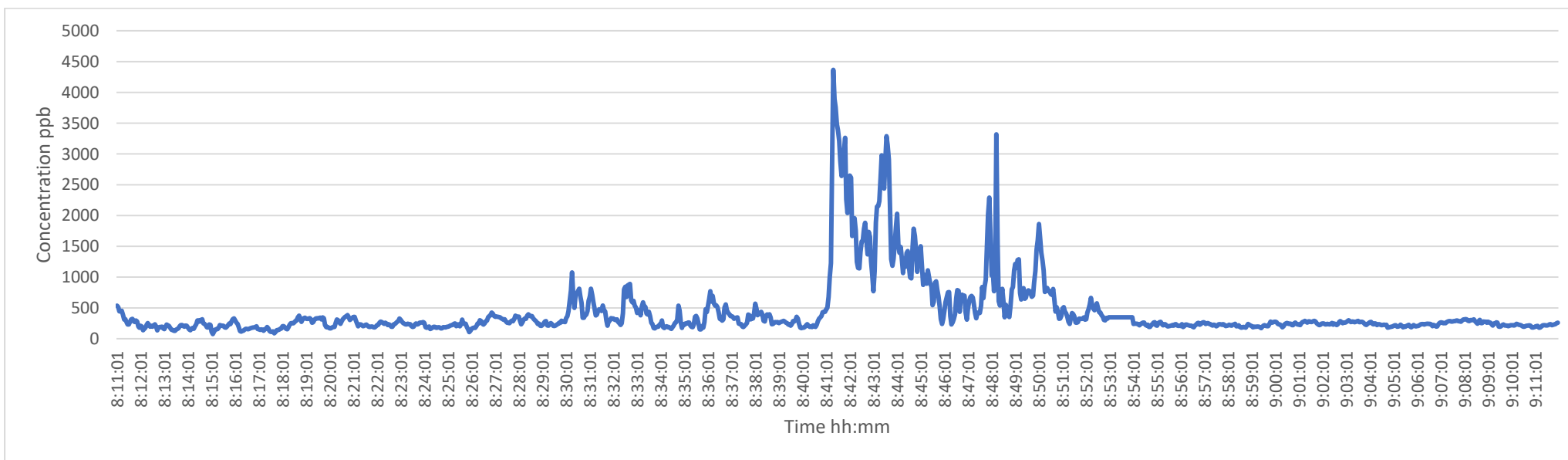
Notes: Please note: concentrations have not been corrected for methyl bromide and measurements will account for all VOC's including methyl bromide

Table 3: Average and peak real-time TVOC measurements on the 12/11/2020

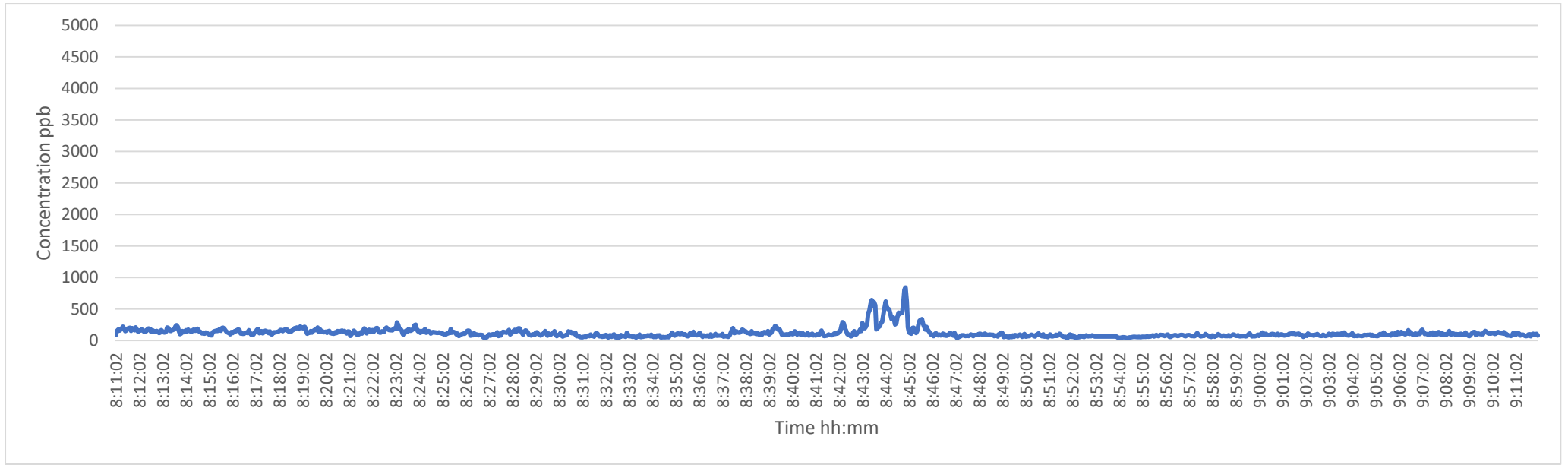
Location (as shown on Map 1)	Average TVOC measured over sampling period (ppb)*	Peak TVOC measured over sampling period (ppb)*	
33	Port- opposite C3	434	4365
34	Izuzu Cal fence	117	842
35	Hull road gate house	20	320
36	Oceania house	800	1200

\*Concentrations have not been corrected for methyl bromide

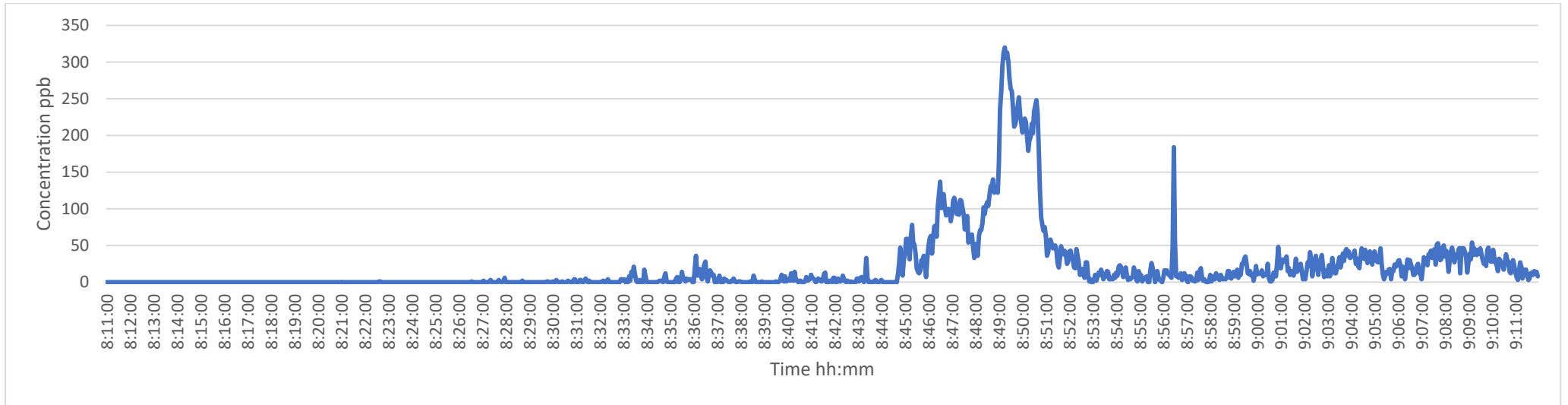
Graph 2: TVOC concentrations measured at Location 33 – 12/11/2020



Graph 3: TVOC concentrations measured at Location 34 – 12/11/2020



Graph 4: TVOC concentrations measured at Location 35- 12/11/2020



Graph 5: TVOC concentrations measured at Location 36- 12/11/2020

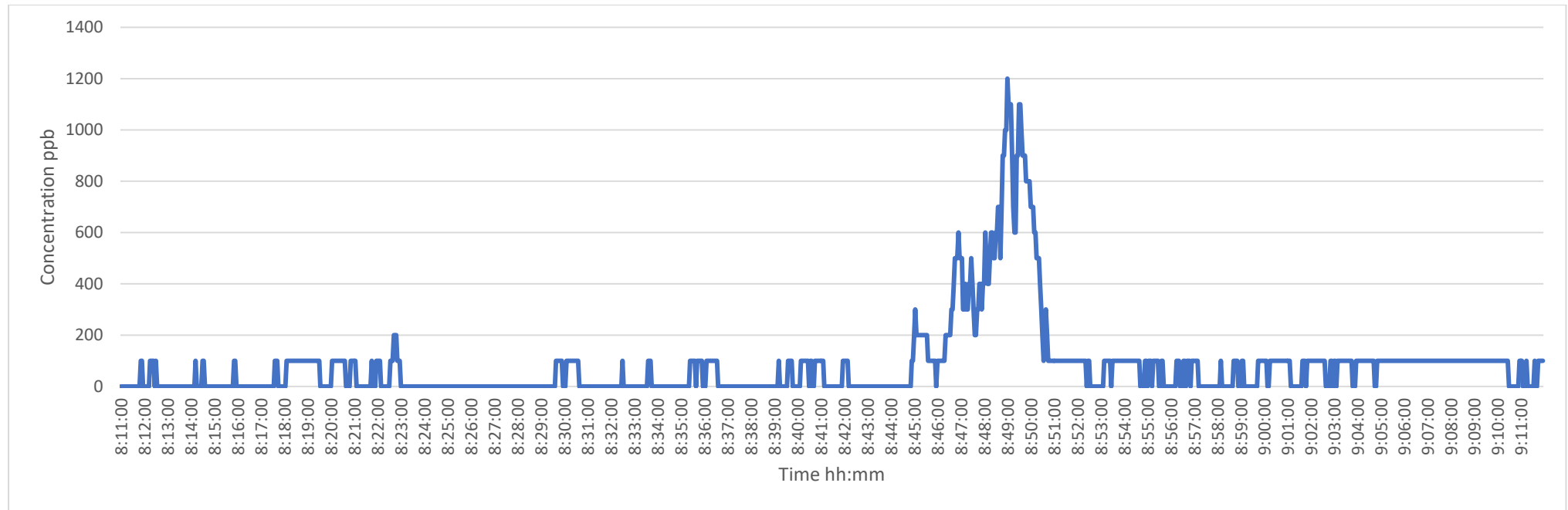


Table 4: 1-hour and 24-hour Canister Sampling Results 12/11/2020

Location (as shown on map above)		Sample Number	Sample length	Sample Time	Canister size	Methyl bromide Concentration (ppbv)
33	Port- opposite C3	19827-1211-33	1 hour	08:11-09:11	1.4L	322 ± 49
34	Isuzu Cal fence	19827-1211-34	1 hour	08:11-09:11	1.4L	22.2 ± 3.4
34A		19827-1211-34A	24 hour	08:05-08:06	6L	1.4 ± 0.3
35	Hull road gate house	19827-1211-35	1 hour	08:11-09:11	1.4L	41.6 ± 6.4
35A		19827-1211-35A	24 hour	08:04-08:04	6L	2.3 ± 0.4
36	Oceania House	19827-1211-36	1 hour	08:11-09:11	1.4L	90 ± 14