

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033187.D
 Acq On : 13 Feb 2019 14:31
 Operator : SY/AP
 Sample : VL0213ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0213ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:23:31 PM

Quant Time: Feb 20 07:18:44 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 07:18:44 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	892991	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2101752	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2607001m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1902188	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1566558	9.176	ppbv	97
3) Chlorodifluoromethane	3.01	51	971218	9.033	ppbv	99
4) Chloromethane	3.17	50	513580	9.046	ppbv	98
5) Vinyl Chloride	3.29	62	489775	8.262	ppbv	97
6) Bromomethane	3.52	94	303391	9.311	ppbv	97
7) Chloroethane	3.60	64	182516	9.417	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1166205	8.734	ppbv	99
9) Propene	3.04	41	456349	8.786	ppbv	98
10) Heptane	8.25	43	1444201	9.191	ppbv	100
11) Trichlorofluoromethane	4.01	101	1335079	9.659	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	903380	9.431	ppbv	99
13) Ethanol	3.65	45	93598m	5.302	ppbv	
14) Bromoethene	3.79	108	397663	9.628	ppbv	98
15) Acetone	3.90	43	889802	8.844	ppbv	100
16) 1,3-Butadiene	3.36	39	424734	8.894	ppbv	98
17) tert-Butyl alcohol	4.36	59	205649	10.641	ppbv	98
18) 1,1-Dichloroethene	4.35	96	414198	9.660	ppbv	95
19) Isopropyl Alcohol	4.02	45	627705	9.199	ppbv	100
20) Methylene Chloride	4.41	84	360296	9.003	ppbv	97
21) Allyl Chloride	4.48	41	663293	9.985	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	416942	10.012	ppbv	94
23) Vinyl Acetate	5.16	43	1715544	9.839	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1185712	9.614	ppbv	99
25) Ethyl Acetate	5.77	43	2049110	9.058	ppbv	100
26) Hexane	5.78	57	940369	8.855	ppbv	99
27) Carbon Disulfide	4.62	76	1032101	10.609	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1414901	9.750	ppbv	100
29) Chloroform	5.85	83	1494446	9.183	ppbv	99
30) Cyclohexane	7.25	84	787963	7.997	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	981736	9.237	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1445216	8.065	ppbv	99
34) 2-Butanone	5.33	43	1391428	10.437	ppbv	99
35) Carbon Tetrachloride	7.14	117	1494607	9.311	ppbv	97
36) Benzene	7.01	78	1952252	9.165	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1143871	9.690	ppbv	100
38) Trichloroethene	7.97	130	710714	7.808	ppbv	95
39) 1,2-Dichloropropane	7.74	63	762522	9.064	ppbv	97
40) 1,4-Dioxane	7.96	88	252201	8.444	ppbv	98
41) Tetrahydrofuran	6.15	42	798208	9.685	ppbv	100
42) Bromodichloromethane	7.92	83	1621845	9.481	ppbv	97
43) Methyl Methacrylate	8.15	69	827226m	9.673	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3151134	8.730	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1244395	13.141	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1376294	11.373	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	920389	10.550	ppbv	97
48) Dibromochloromethane	10.46	129	1631296	11.869	ppbv	98
49) Bromoform	13.21	173	1402845	11.862	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2259460	10.569	ppbv	99
51) 2-Hexanone	10.27	43	1880823	11.159	ppbv #	99
52) Tetrachloroethene	11.38	164	809906	9.897	ppbv	97
53) Toluene	9.95	91	2683100	10.638	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1479366	10.806	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1113224	9.168	ppbv	96
57) Chlorobenzene	12.31	112	1930416	8.368	ppbv	99
58) Ethyl Benzene	12.87	91	3651112	8.532	ppbv	99
59) m/p-Xylene	13.15	91	5994732m	16.841	ppbv	
60) o-Xylene	13.86	91	2907126	8.375	ppbv	99
61) Styrene	13.69	104	2248261	8.580	ppbv	99
62) Isopropylbenzene	14.83	105	4098248	8.368	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2005230	7.400	ppbv	100
64) n-propylbenzene	15.73	120	1052688	8.455	ppbv	99
65) tert-Butylbenzene	16.91	119	3536137	8.292	ppbv	99
66) Benzyl Chloride	17.16	91	1842029	12.087	ppbv	99
67) sec-Butylbenzene	17.46	105	5107526	8.250	ppbv	99
69) p-Isopropyltoluene	17.82	119	4260823	8.264	ppbv	99
70) n-Butylbenzene	18.72	91	4517539	8.122	ppbv	100
71) 2-Chlorotoluene	15.62	91	3197561	8.311	ppbv	100
72) 4-Ethyltoluene	16.00	105	3399981	8.493	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3265691	8.530	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	3242941	8.166	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1873280	8.179	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1916358	8.445	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1900997	8.399	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	930826	8.271	ppbv	99
79) Naphthalene	22.42	128	3593103	8.420	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1417576	6.567	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1773246	8.180	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

