

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122121\
 Data File : VL038218.D
 Acq On : 21 Dec 2021 17:08
 Operator : SY/AP
 Sample : VSTDICC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/22/2021
 Supervised By :Mahesh Dadoda 12/29/2021

Quant Time: Dec 21 17:38:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Dec 21 17:11:06 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	749888	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2272816	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2021093	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1599192	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1733300	12.880	ppbv	98
3) Chlorodifluoromethane	3.00	51	2002546	12.604	ppbv	99
4) Chloromethane	3.15	50	705366	12.734	ppbv	99
5) Vinyl Chloride	3.27	62	717728	13.001	ppbv	100
6) Bromomethane	3.48	94	411808	14.748	ppbv	93
7) Chloroethane	3.57	64	247357	13.252	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	1714019	12.987	ppbv	97
9) Propene	3.02	41	672799	12.007	ppbv	98
10) Heptane	8.13	43	1735985	12.326	ppbv	100
11) Trichlorofluoromethane	3.96	101	1719767	13.450	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1257900	13.119	ppbv	99
13) Ethanol	3.62	45	70747	6.018	ppbv #	100
14) Bromoethene	3.75	108	543447	13.960	ppbv	98
15) Acetone	3.86	43	884613	11.820	ppbv	95
16) 1,3-Butadiene	3.34	39	691163	13.413	ppbv	99
17) tert-Butyl alcohol	4.30	59	960415	11.502	ppbv	100
18) 1,1-Dichloroethene	4.30	96	574356	13.625	ppbv	96
19) Isopropyl Alcohol	3.98	45	538270	11.380	ppbv #	39
20) Methylene Chloride	4.35	84	464304	11.036	ppbv	95
21) Allyl Chloride	4.42	41	860919	13.660	ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	618059	14.399	ppbv	97
23) Vinyl Acetate	5.08	43	1433433	14.215	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1182359	13.223	ppbv	100
25) Ethyl Acetate	5.68	43	2692112	13.076	ppbv	100
26) Hexane	5.69	57	1251469	12.068	ppbv	98
27) Carbon Disulfide	4.56	76	1367112	15.274	ppbv	98
28) Methyl tert-Butyl Ether	5.04	73	1341890	13.286	ppbv	99
29) Chloroform	5.76	83	2005809	13.136	ppbv	97
30) Cyclohexane	7.14	84	1127727	12.224	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	1289786	15.852	ppbv	95
32) 1,1,1-Trichloroethane	6.52	97	2042558	13.486	ppbv	99
34) 2-Butanone	5.25	43	947693	12.967	ppbv	100
35) Carbon Tetrachloride	7.02	117	2063965	14.619	ppbv	99
36) Benzene	6.90	78	2777404	12.963	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1531057	14.382	ppbv	99
38) Trichloroethene	7.84	130	1010369	12.448	ppbv	99
39) 1,2-Dichloropropane	7.62	63	1076488	13.016	ppbv	98
40) 1,4-Dioxane	7.84	88	259719	11.015	ppbv	93
41) Tetrahydrofuran	6.05	42	704986	13.869	ppbv	100
42) Bromodichloromethane	7.80	83	2203992	14.513	ppbv	99
43) Methyl Methacrylate	8.02	69	1030103	13.933	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4382864	12.062	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	935149	17.020	ppbv	96
46) cis-1,3-Dichloropropene	8.71	75	1168954	15.422	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1100669	12.853	ppbv	98
48) Dibromochloromethane	10.31	129	1778319	14.696	ppbv	98
49) Bromoform	13.05	173	1324496	15.514	ppbv	98
50) 4-Methyl-2-Pentanone	8.74	43	1827254	14.546	ppbv	99
51) 2-Hexanone	10.14	43	850534	14.076	ppbv #	98
52) Tetrachloroethene	11.23	164	921199	11.701	ppbv	94
53) Toluene	9.81	91	3115528	12.589	ppbv	98
54) 1,2-Dibromoethane	10.61	107	1627792	13.405	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1147143	13.623	ppbv	85
57) Chlorobenzene	12.15	112	2173650	12.412	ppbv	98
58) Ethyl Benzene	12.71	91	4037407	12.865	ppbv	99
59) m/p-Xylene	13.00	91	6806588m	25.529	ppbv	
60) o-Xylene	13.69	91	3089926	12.410	ppbv	99
61) Styrene	13.53	104	1750465	13.752	ppbv	97
62) Isopropylbenzene	14.67	105	4378440	12.514	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.68	83	2221837	11.705	ppbv	100
64) n-propylbenzene	15.56	120	1155033	13.342	ppbv	94
65) tert-Butylbenzene	16.75	119	3710608	12.160	ppbv	99
66) Benzyl Chloride	16.99	91	213741	17.995	ppbv	97
67) sec-Butylbenzene	17.29	105	5235168	12.493	ppbv	100
69) p-Isopropyltoluene	17.65	119	4260386	12.634	ppbv	99
70) n-Butylbenzene	18.55	91	4178364	13.039	ppbv	100
71) 2-Chlorotoluene	15.46	91	3345160	13.044	ppbv	99
72) 4-Ethyltoluene	15.84	105	3836555	13.429	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	3367743	13.176	ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	3385990	12.696	ppbv	93
75) 1,3-Dichlorobenzene	17.00	146	1951582	13.539	ppbv	100
76) 1,4-Dichlorobenzene	17.14	146	1909688	13.300	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	1819478	13.164	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	988765	11.559	ppbv	100
79) Naphthalene	22.19	128	2057335	14.805	ppbv	98
80) Naphthalene,2-methyl-	24.97	142	369427	12.358	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	1053620	13.164	ppbv	98

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

