

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
 Data File : VL035102.D
 Acq On : 19 Jun 2020 19:46
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 6/22/2020 2:09:12 PM

Quant Time: Jun 20 02:09:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 2020
 QLast Update : Sat Jun 20 01:15:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1353639	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3222658	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3256336	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2613562	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	1915502	9.838	ppbv 98
3) Chlorodifluoromethane	2.94	51	1937314	12.504	ppbv 99
4) Chloromethane	3.09	50	1141802	12.873	ppbv 96
5) Vinyl Chloride	3.21	62	1142896	13.232	ppbv 99
6) Bromomethane	3.43	94	684228	13.231	ppbv 91
7) Chloroethane	3.51	64	411965	13.293	ppbv 100
8) Dichlorotetrafluoroethane	3.14	85	2408182	12.063	ppbv 98
9) Propene	2.96	41	859699	12.946	ppbv 100
10) Heptane	8.12	43	2398714	14.407	ppbv 98
11) Trichlorofluoromethane	3.91	101	2522627	12.737	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1776814	12.623	ppbv 99
13) Ethanol	3.56	45	198696	9.254	ppbv 98
14) Bromoethene	3.70	108	820223	14.076	ppbv 98
15) Acetone	3.81	43	1997171	11.180	ppbv 100
16) 1,3-Butadiene	3.28	39	1034917	13.443	ppbv 99
17) tert-Butyl alcohol	4.26	59	1899961	11.989	ppbv 100
18) 1,1-Dichloroethene	4.25	96	831095	13.597	ppbv 99
19) Isopropyl Alcohol	3.93	45	1335191	11.344	ppbv 100
20) Methylene Chloride	4.31	84	746646	12.635	ppbv 95
21) Allyl Chloride	4.38	41	1420514	14.116	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	822893	13.739	ppbv 99
23) Vinyl Acetate	5.05	43	3013236	13.445	ppbv 99
24) 1,1-Dichloroethane	4.99	63	2243512	12.845	ppbv 99
25) Ethyl Acetate	5.66	43	3984285	13.284	ppbv 100
26) Hexane	5.67	57	1792392	13.774	ppbv 99
27) Carbon Disulfide	4.52	76	2182759	14.383	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	2619529	13.256	ppbv 100
29) Chloroform	5.74	83	2767768	12.959	ppbv 96
30) Cyclohexane	7.13	84	1512192	14.981	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1833139	14.384	ppbv 95
32) 1,1,1-Trichloroethane	6.50	97	2672319	13.842	ppbv 99
34) 2-Butanone	5.22	43	2603868	13.089	ppbv 99
35) Carbon Tetrachloride	7.01	117	2727477	13.428	ppbv 98
36) Benzene	6.89	78	3565455	13.442	ppbv 98
37) 1,2-Dichloroethane	6.30	62	2150785	13.111	ppbv 100
38) Trichloroethene	7.84	130	1368737	13.258	ppbv 98
39) 1,2-Dichloropropane	7.62	63	1437434	13.528	ppbv 99
40) 1,4-Dioxane	7.83	88	459577	10.854	ppbv # 98
41) Tetrahydrofuran	6.03	42	1494300	14.316	ppbv 99
42) Bromodichloromethane	7.80	83	2938422	13.292	ppbv 94
43) Methyl Methacrylate	8.01	69	1669857	14.920	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5946294	12.620	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	1888608	16.808	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	2193658	15.872	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	1506472	13.384	ppbv	98
48) Dibromochloromethane	10.32	129	2484529	14.387	ppbv	100
49) Bromoform	13.07	173	2169000	14.647	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3907770	13.780	ppbv	100
51) 2-Hexanone	10.14	43	3244585	14.663	ppbv #	100
52) Tetrachloroethene	11.24	164	1270021	13.420	ppbv	97
53) Toluene	9.82	91	4165372	14.802	ppbv	100
54) 1,2-Dibromoethane	10.63	107	2284378	13.847	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1854896	12.769	ppbv #	60
57) Chlorobenzene	12.17	112	3090665	12.087	ppbv	98
58) Ethyl Benzene	12.73	91	5475350	13.813	ppbv	98
59) m/p-Xylene	13.02	91	8824078m	25.244	ppbv	
60) o-Xylene	13.72	91	4455278	12.907	ppbv	99
61) Styrene	13.55	104	3288640	15.101	ppbv	99
62) Isopropylbenzene	14.70	105	6468483	12.574	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	3139684	11.506	ppbv	100
64) n-propylbenzene	15.59	120	1762000	13.327	ppbv	94
65) tert-Butylbenzene	16.78	119	5522284	12.345	ppbv	100
66) Benzyl Chloride	17.03	91	2275282	15.341	ppbv	100
67) sec-Butylbenzene	17.33	105	7746971	12.152	ppbv	98
69) p-Isopropyltoluene	17.69	119	6397194	12.409	ppbv	98
70) n-Butylbenzene	18.59	91	6705707	12.240	ppbv	99
71) 2-Chlorotoluene	15.49	91	5098768	13.118	ppbv	100
72) 4-Ethyltoluene	15.87	105	5230103	13.570	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	4803055	12.849	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	4844134	11.870	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	2819856	11.721	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	2886425	12.643	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	2700145	11.982	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2226513	11.536	ppbv	99
79) Naphthalene	22.26	128	4981059m	15.819	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	2532465	31.933	ppbv	100
81) 1,2,4-Trichlorobenzene	21.98	180	2645216	13.783	ppbv	98

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

