

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL063020\
 Data File : VL035121.D
 Acq On : 30 Jun 2020 9:36
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/2/2020 5:00:24 PM

Quant Time: Jul 01 03:09:44 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 02:10:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1319016	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3097176	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3125372m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2521529	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1360498	7.638	ppbv 97
3) Chlorodifluoromethane	2.94	51	1337910	9.182	ppbv 100
4) Chloromethane	3.10	50	775548	9.495	ppbv 96
5) Vinyl Chloride	3.21	62	762590	9.818	ppbv 99
6) Bromomethane	3.44	94	466184	9.665	ppbv 92
7) Chloroethane	3.52	64	287984	9.832	ppbv 93
8) Dichlorotetrafluoroethane	3.14	85	1768349	9.260	ppbv 100
9) Propene	2.96	41	561149	9.726	ppbv 99
10) Heptane	8.13	43	1524215	10.193	ppbv 99
11) Trichlorofluoromethane	3.92	101	1845095	9.697	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1285619	9.771	ppbv 100
13) Ethanol	3.57	45	155160	7.118	ppbv 97
14) Bromoethene	3.70	108	576598	10.167	ppbv 99
15) Acetone	3.82	43	1412572	8.858	ppbv 100
16) 1,3-Butadiene	3.29	39	683277	9.769	ppbv 98
17) tert-Butyl alcohol	4.26	59	1575963	11.151	ppbv 100
18) 1,1-Dichloroethene	4.26	96	598845	10.092	ppbv 98
19) Isopropyl Alcohol	3.93	45	1106350	10.684	ppbv 99
20) Methylene Chloride	4.32	84	534921	8.288	ppbv 94
21) Allyl Chloride	4.38	41	985192	10.395	ppbv 97
22) trans-1,2-Dichloroethene	4.86	96	593913	10.697	ppbv 93
23) Vinyl Acetate	5.06	43	2026440	10.469	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1583116	9.701	ppbv 98
25) Ethyl Acetate	5.67	43	2688319	9.341	ppbv 99
26) Hexane	5.68	57	1201413	9.259	ppbv 99
27) Carbon Disulfide	4.53	76	1581298	11.776	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1909148	10.472	ppbv 100
29) Chloroform	5.74	83	1898165	9.348	ppbv 98
30) Cyclohexane	7.14	84	1004454	10.786	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1227586	10.263	ppbv 99
32) 1,1,1-Trichloroethane	6.51	97	1876496	9.964	ppbv 100
34) 2-Butanone	5.23	43	1728226	9.717	ppbv 99
35) Carbon Tetrachloride	7.02	117	1937719	10.432	ppbv 96
36) Benzene	6.90	78	2391103	9.970	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1474544	9.728	ppbv 100
38) Trichloroethene	7.85	130	958666	10.291	ppbv 98
39) 1,2-Dichloropropane	7.63	63	945764	10.083	ppbv 98
40) 1,4-Dioxane	7.84	88	346942	9.377	ppbv # 99
41) Tetrahydrofuran	6.04	42	946460	10.418	ppbv 99
42) Bromodichloromethane	7.81	83	2054561	10.466	ppbv 95
43) Methyl Methacrylate	8.02	69	1098078	10.817	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4077170	9.740	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1257745	12.731	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1466483	11.949	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	998804	9.756	ppbv	99
48) Dibromochloromethane	10.33	129	1709594	11.202	ppbv	99
49) Bromoform	13.08	173	1487521	11.473	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2561914	10.138	ppbv	99
51) 2-Hexanone	10.15	43	2100641	10.614	ppbv #	100
52) Tetrachloroethene	11.26	164	874082	10.343	ppbv	96
53) Toluene	9.83	91	2789974	10.906	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1540019	10.160	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1263671	9.880	ppbv #	57
57) Chlorobenzene	12.18	112	2122024	9.227	ppbv	99
58) Ethyl Benzene	12.74	91	3734552	10.635	ppbv	98
59) m/p-Xylene	13.03	91	6137103m	19.720	ppbv	
60) o-Xylene	13.73	91	3046972	9.834	ppbv	100
61) Styrene	13.56	104	2195959	11.264	ppbv	100
62) Isopropylbenzene	14.71	105	4465057	9.658	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2121390	8.454	ppbv	99
64) n-propylbenzene	15.61	120	1184674	10.041	ppbv	99
65) tert-Butylbenzene	16.79	119	3890929	9.828	ppbv	100
66) Benzyl Chloride	17.03	91	1624747	13.285	ppbv	100
67) sec-Butylbenzene	17.34	105	5440765	9.588	ppbv	100
69) p-Isopropyltoluene	17.70	119	4516287	9.978	ppbv	100
70) n-Butylbenzene	18.60	91	4682794	9.605	ppbv	99
71) 2-Chlorotoluene	15.50	91	3448219	9.867	ppbv	100
72) 4-Ethyltoluene	15.88	105	3566960	10.349	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	3294642	10.112	ppbv	99
74) 1,2,4-Trimethylbenzene	16.81	105	3396339	9.340	ppbv	99
75) 1,3-Dichlorobenzene	17.05	146	1926994	8.880	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1951587	9.401	ppbv	100
77) 1,2-Dichlorobenzene	17.87	146	1835376m	9.243	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	1558864	8.734	ppbv	99
79) Naphthalene	22.27	128	3304152	10.364	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	1671717	13.714	ppbv	100
81) 1,2,4-Trichlorobenzene	21.99	180	1770790	9.629	ppbv	99

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

