

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038210.D
 Acq On : 17 Dec 2021 9:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Quant Time: Dec 18 04:51:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	736888	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2331008	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2116723m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1517262	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	1154446	9.484	ppbv 100
3) Chlorodifluoromethane	2.99	51	1357877	8.775	ppbv 99
4) Chloromethane	3.14	50	485783	9.221	ppbv 97
5) Vinyl Chloride	3.26	62	507054	9.811	ppbv 100
6) Bromomethane	3.47	94	270560	9.773	ppbv 99
7) Chloroethane	3.56	64	175527	9.570	ppbv 93
8) Dichlorotetrafluoroethane	3.19	85	1146457	9.468	ppbv 99
9) Propene	3.01	41	525522	9.221	ppbv 99
10) Heptane	8.11	43	1244208	8.833	ppbv 99
11) Trichlorofluoromethane	3.95	101	1086690	9.387	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	780035	9.526	ppbv 100
13) Ethanol	3.61	45	48558m	8.817	ppbv
14) Bromoethene	3.74	108	355766	9.702	ppbv 98
15) Acetone	3.84	43	627106	9.816	ppbv 98
16) 1,3-Butadiene	3.33	39	512344	10.279	ppbv 93
17) tert-Butyl alcohol	4.28	59	852817	11.004	ppbv 99
18) 1,1-Dichloroethene	4.29	96	367683	9.788	ppbv 99
19) Isopropyl Alcohol	3.96	45	474916	10.288	ppbv # 1
20) Methylene Chloride	4.34	84	308360	8.617	ppbv 99
21) Allyl Chloride	4.41	41	574966	9.722	ppbv 97
22) trans-1,2-Dichloroethene	4.88	96	368932	9.696	ppbv 97
23) Vinyl Acetate	5.07	43	903605	9.770	ppbv 99
24) 1,1-Dichloroethane	5.00	63	762766	9.904	ppbv 98
25) Ethyl Acetate	5.67	43	1927313	9.077	ppbv 99
26) Hexane	5.68	57	915160	8.942	ppbv 97
27) Carbon Disulfide	4.55	76	824717	8.996	ppbv 100
28) Methyl tert-Butyl Ether	5.02	73	861416	9.908	ppbv 100
29) Chloroform	5.74	83	1341467	8.894	ppbv 98
30) Cyclohexane	7.12	84	818587	8.810	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	900809	9.253	ppbv 99
32) 1,1,1-Trichloroethane	6.50	97	1346600	8.797	ppbv 99
34) 2-Butanone	5.24	43	887570	9.443	ppbv 99
35) Carbon Tetrachloride	7.01	117	1334740	8.150	ppbv 98
36) Benzene	6.88	78	1975544	8.496	ppbv 99
37) 1,2-Dichloroethane	6.30	62	977228	8.702	ppbv 99
38) Trichloroethene	7.83	130	746343	8.509	ppbv 95
39) 1,2-Dichloropropane	7.60	63	756526	8.482	ppbv 96
40) 1,4-Dioxane	7.82	88	168711m	7.260	ppbv
41) Tetrahydrofuran	6.04	42	473252	8.111	ppbv 97
42) Bromodichloromethane	7.78	83	1410956	8.264	ppbv 99
43) Methyl Methacrylate	8.01	69	725715	9.123	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3208768	8.248	ppbv	98
45) t-1,3-Dichloropropene	9.27	75	663627	10.400	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	830840	9.627	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	798032	8.543	ppbv	97
48) Dibromochloromethane	10.29	129	1237116	8.696	ppbv	99
49) Bromoform	13.03	173	887279	8.718	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	1303297	9.130	ppbv	100
51) 2-Hexanone	10.12	43	684344	10.190	ppbv #	94
52) Tetrachloroethene	11.21	164	693147	8.056	ppbv	97
53) Toluene	9.79	91	2293080	8.571	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1165619	8.834	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	824485	8.580	ppbv	97
57) Chlorobenzene	12.13	112	1666561	8.784	ppbv	98
58) Ethyl Benzene	12.70	91	2975813	8.506	ppbv	99
59) m/p-Xylene	12.98	91	4919071m	16.703	ppbv	
60) o-Xylene	13.68	91	2233374	8.175	ppbv	98
61) Styrene	13.51	104	1307866	8.929	ppbv	99
62) Isopropylbenzene	14.65	105	3280019	8.458	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	1533599	7.557	ppbv	97
64) n-propylbenzene	15.55	120	842796	8.531	ppbv	96
65) tert-Butylbenzene	16.73	119	2814478	8.238	ppbv	97
66) Benzyl Chloride	16.98	91	176105	10.170	ppbv	97
67) sec-Butylbenzene	17.28	105	3926680	8.248	ppbv	100
69) p-Isopropyltoluene	17.64	119	3264210	8.765	ppbv	99
70) n-Butylbenzene	18.54	91	3170427	8.904	ppbv	100
71) 2-Chlorotoluene	15.44	91	2304094	8.126	ppbv	97
72) 4-Ethyltoluene	15.82	105	2863539	9.040	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	2520556	8.712	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	2540546	8.522	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	1489781	9.098	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	1468864	8.914	ppbv	97
77) 1,2-Dichlorobenzene	17.80	146	1423684	8.979	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	836637	8.451	ppbv	99
79) Naphthalene	22.18	128	1747657	11.131	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	401146	11.922	ppbv	97
81) 1,2,4-Trichlorobenzene	21.91	180	947105	10.498	ppbv	99

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

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