

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030222\
 Data File : VL038475.D
 Acq On : 2 Mar 2022 9:41
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Quant Time: Mar 03 11:49:36 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Tue Feb 22 19:45:51 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/07/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	953812	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	2441813	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2227002m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1914169	10.39	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	1248874	8.267	ppbv 98
3) Chlorodifluoromethane	2.99	51	1577210	9.364	ppbv 100
4) Chloromethane	3.14	50	543049	9.279	ppbv 100
5) Vinyl Chloride	3.26	62	569808	9.314	ppbv 99
6) Bromomethane	3.48	94	307849	9.540	ppbv 100
7) Chloroethane	3.56	64	193068	9.826	ppbv 98
8) Dichlorotetrafluoroethane	3.19	85	1371977	9.763	ppbv 99
9) Propene	3.01	41	523545	9.415	ppbv 97
10) Heptane	8.11	43	1327647	9.808	ppbv 99
11) Trichlorofluoromethane	3.95	101	1363505	9.427	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	993319	9.367	ppbv 97
13) Ethanol	3.61	45	41631	7.501	ppbv 98
14) Bromoethene	3.74	108	424153	10.040	ppbv 98
15) Acetone	3.85	43	691424	8.524	ppbv 100
16) 1,3-Butadiene	3.33	39	540404	9.974	ppbv 96
17) tert-Butyl alcohol	4.29	59	858993	10.615	ppbv 100
18) 1,1-Dichloroethene	4.29	96	454443	9.761	ppbv 98
19) Isopropyl Alcohol	3.96	45	447183	9.521	ppbv 100
20) Methylene Chloride	4.34	84	352996	8.783	ppbv 98
21) Allyl Chloride	4.41	41	668543	9.759	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	466602	9.933	ppbv 99
23) Vinyl Acetate	5.07	43	1076637	10.016	ppbv 100
24) 1,1-Dichloroethane	5.01	63	922131	9.542	ppbv 100
25) Ethyl Acetate	5.67	43	2127963	9.765	ppbv 99
26) Hexane	5.69	57	980658	9.937	ppbv 96
27) Carbon Disulfide	4.55	76	1103737	10.055	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	985405	9.804	ppbv 98
29) Chloroform	5.75	83	1583547	9.832	ppbv 99
30) Cyclohexane	7.12	84	828657	10.267	ppbv 97
31) cis-1,2-Dichloroethene	5.55	61	990968	10.365	ppbv 96
32) 1,1,1-Trichloroethane	6.51	97	1575920	9.729	ppbv 99
34) 2-Butanone	5.24	43	739305	9.627	ppbv 100
35) Carbon Tetrachloride	7.01	117	1630487	9.496	ppbv 98
36) Benzene	6.89	78	2071879	9.638	ppbv 96
37) 1,2-Dichloroethane	6.30	62	1171212	9.429	ppbv 99
38) Trichloroethene	7.83	130	754926	9.642	ppbv 97
39) 1,2-Dichloropropane	7.61	63	794249	9.276	ppbv 98
40) 1,4-Dioxane	7.83	88	193291	9.518	ppbv 94
41) Tetrahydrofuran	6.05	42	519297	10.008	ppbv 100
42) Bromodichloromethane	7.79	83	1698216	9.467	ppbv 100
43) Methyl Methacrylate	8.01	69	761408	10.189	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	3454220	9.349	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	635941	10.648	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	802210	10.249	ppbv	97
47) 1,1,2-Trichloroethane	9.47	97	798455	9.373	ppbv	98
48) Dibromochloromethane	10.30	129	1334793	9.583	ppbv	100
49) Bromoform	13.03	173	883254	8.591	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	1356309	9.989	ppbv	98
51) 2-Hexanone	10.13	43	592486	9.747	ppbv #	96
52) Tetrachloroethene	11.22	164	652549	9.144	ppbv	96
53) Toluene	9.80	91	2263048	9.696	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1153429	9.619	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.12	131	860277	9.268	ppbv #	54
57) Chlorobenzene	12.14	112	1539234	8.958	ppbv	99
58) Ethyl Benzene	12.70	91	2879501	9.455	ppbv	98
59) m/p-Xylene	12.99	91	4762538m	18.210	ppbv	
60) o-Xylene	13.68	91	2179400	8.815	ppbv	98
61) Styrene	13.52	104	1110292	9.737	ppbv	100
62) Isopropylbenzene	14.66	105	2909591	8.768	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	1454202	7.239	ppbv	99
64) n-propylbenzene	15.55	120	713839	8.689	ppbv	95
65) tert-Butylbenzene	16.73	119	2388349	8.310	ppbv	98
66) Benzyl Chloride	16.98	91	124698m	8.029	ppbv	
67) sec-Butylbenzene	17.28	105	3305291	8.117	ppbv	99
69) p-Isopropyltoluene	17.64	119	2655132	8.301	ppbv	99
70) n-Butylbenzene	18.54	91	2758292	8.333	ppbv	100
71) 2-Chlorotoluene	15.44	91	2118930	8.304	ppbv	99
72) 4-Ethyltoluene	15.83	105	2344889	8.608	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	2062291	8.336	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	2149847	8.231	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	1154676	7.893	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	1095355	7.593	ppbv	98
77) 1,2-Dichlorobenzene	17.81	146	1095684	7.781	ppbv	100
78) Hexachloro-1,3-Butadiene	23.37	225	885267	8.243	ppbv	99
79) Naphthalene	22.19	128	1672384	11.818	ppbv	98
80) Naphthalene, 2-methyl-	24.96	142	272787	9.864	ppbv	96
81) 1,2,4-Trichlorobenzene	21.91	180	905391m	10.582	ppbv	

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

