

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091721\
 Data File : VL037652.D
 Acq On : 18 Sep 2021 11:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:28:52 PM

Quant Time: Sep 20 01:54:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1487266	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4356279	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3906791m	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2802214	9.92	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.05	85	2385305	8.863	ppbv	100
3) Chlorodifluoromethane	2.99	51	2978688	10.618	ppbv	98
4) Chloromethane	3.14	50	1109650	10.706	ppbv	98
5) Vinyl Chloride	3.26	62	1143266	11.744	ppbv	100
6) Bromomethane	3.47	94	628666	11.110	ppbv	96
7) Chloroethane	3.56	64	381649	10.490	ppbv	97
8) Dichlorotetrafluoroethane	3.19	85	2519066	10.850	ppbv	99
9) Propene	3.01	41	1128456	11.404	ppbv	97
10) Heptane	8.12	43	2683373	11.621	ppbv	99
11) Trichlorofluoromethane	3.95	101	2281076	10.557	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1752195	10.986	ppbv	97
13) Ethanol	3.60	45	109407m	11.303	ppbv	
14) Bromoethene	3.74	108	795985	10.964	ppbv	99
15) Acetone	3.84	43	1387056	8.976	ppbv	97
16) 1,3-Butadiene	3.33	39	1111081	11.507	ppbv	98
17) tert-Butyl alcohol	4.28	59	1663432	12.695	ppbv	100
18) 1,1-Dichloroethene	4.29	96	817402	11.002	ppbv	95
19) Isopropyl Alcohol	3.96	45	971299	11.552	ppbv #	93
20) Methylene Chloride	4.34	84	696398	9.440	ppbv	97
21) Allyl Chloride	4.41	41	1341598	11.621	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	808667	10.818	ppbv	97
23) Vinyl Acetate	5.07	43	2587160	12.099	ppbv #	98
24) 1,1-Dichloroethane	5.01	63	1836121	11.986	ppbv	99
25) Ethyl Acetate	5.67	43	4254239	11.367	ppbv	99
26) Hexane	5.68	57	2017044	11.346	ppbv	99
27) Carbon Disulfide	4.55	76	2006193	12.335	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2152884	13.749	ppbv	98
29) Chloroform	5.75	83	2779169	10.706	ppbv	99
30) Cyclohexane	7.12	84	1657241	10.899	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1871771	11.597	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	2681485	11.095	ppbv	100
34) 2-Butanone	5.24	43	1906800	10.771	ppbv	99
35) Carbon Tetrachloride	7.01	117	2755155	11.181	ppbv	99
36) Benzene	6.89	78	4122540	11.349	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1953099	10.932	ppbv	100
38) Trichloroethene	7.83	130	1602589	10.561	ppbv	97
39) 1,2-Dichloropropane	7.61	63	1564806	11.247	ppbv	97
40) 1,4-Dioxane	7.83	88	385746	11.398	ppbv	86
41) Tetrahydrofuran	6.04	42	999616	12.011	ppbv	100
42) Bromodichloromethane	7.79	83	2909884	11.364	ppbv	99
43) Methyl Methacrylate	8.01	69	1502585	12.434	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	6780484	11.103	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1298117	13.675	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1671004	13.032	ppbv	96
47) 1,1,2-Trichloroethane	9.47	97	1600305	10.398	ppbv	98
48) Dibromochloromethane	10.30	129	2537991	11.820	ppbv	99
49) Bromoform	13.03	173	1970517	11.467	ppbv	97
50) 4-Methyl-2-Pentanone	8.74	43	2619423	11.658	ppbv	100
51) 2-Hexanone	10.13	43	1194690	12.051	ppbv #	97
52) Tetrachloroethene	11.21	164	1470234	10.543	ppbv	97
53) Toluene	9.80	91	4670807	11.568	ppbv	99
54) 1,2-Dibromoethane	10.60	107	2298290	10.906	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1735187	10.708	ppbv #	88
57) Chlorobenzene	12.14	112	3299819	10.160	ppbv	98
58) Ethyl Benzene	12.70	91	5780989	11.147	ppbv	100
59) m/p-Xylene	12.99	91	9742064m	21.556	ppbv	
60) o-Xylene	13.68	91	4519514	10.507	ppbv	98
61) Styrene	13.52	104	2505001	11.810	ppbv	98
62) Isopropylbenzene	14.66	105	6185606	10.294	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	3167764	9.410	ppbv	100
64) n-propylbenzene	15.55	120	1654516	10.670	ppbv	87
65) tert-Butylbenzene	16.73	119	5520647	10.189	ppbv	100
66) Benzyl Chloride	16.98	91	368977	12.462	ppbv	98
67) sec-Butylbenzene	17.28	105	7632145	10.383	ppbv	99
69) p-Isopropyltoluene	17.64	119	6385380	10.633	ppbv	100
70) n-Butylbenzene	18.54	91	6242029	10.985	ppbv	100
71) 2-Chlorotoluene	15.45	91	4547836	10.561	ppbv	98
72) 4-Ethyltoluene	15.83	105	5240687	10.613	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	4784131	10.394	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	5022306	10.360	ppbv	96
75) 1,3-Dichlorobenzene	16.99	146	3056792	10.149	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2954572	9.946	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2894991	10.134	ppbv	100
78) Hexachloro-1,3-Butadiene	23.36	225	2368788	9.852	ppbv	99
79) Naphthalene	22.18	128	4235288	14.229	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	898291	13.203	ppbv	98
81) 1,2,4-Trichlorobenzene	21.91	180	2410966m	12.616	ppbv	

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

