

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038165.D
 Acq On : 14 Dec 2021 14:08
 Operator : SY/AP
 Sample : VL1214ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VL1214ABS01

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 05:17:07 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1073446	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	2887558	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.04	117	2631944m	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	2072992	10.92	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.03	85	1627373	9.178	ppbv 100
3) Chlorodifluoromethane	2.97	51	1822346	8.084	ppbv 98
4) Chloromethane	3.12	50	619915	8.078	ppbv 99
5) Vinyl Chloride	3.24	62	620416	8.241	ppbv 97
6) Bromomethane	3.46	94	341984	8.480	ppbv 95
7) Chloroethane	3.54	64	219923	8.231	ppbv 89
8) Dichlorotetrafluoroethane	3.17	85	1506241	8.539	ppbv 94
9) Propene	2.99	41	608822	7.333	ppbv 97
10) Heptane	8.09	43	1577041	7.686	ppbv 98
11) Trichlorofluoromethane	3.93	101	1505475	8.927	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1031232	8.645	ppbv 99
13) Ethanol	3.59	45	62195m	7.752	ppbv
14) Bromoethene	3.72	108	472692	8.849	ppbv 97
15) Acetone	3.83	43	785008	8.435	ppbv 99
16) 1,3-Butadiene	3.31	39	580217	7.991	ppbv 99
17) tert-Butyl alcohol	4.26	59	937686	8.306	ppbv 100
18) 1,1-Dichloroethene	4.27	96	468584	8.563	ppbv 99
19) Isopropyl Alcohol	3.94	45	534650	7.951	ppbv 100
20) Methylene Chloride	4.32	84	406260	7.793	ppbv 99
21) Allyl Chloride	4.39	41	736051	8.544	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	509581	9.194	ppbv 95
23) Vinyl Acetate	5.04	43	1180584	8.763	ppbv 98
24) 1,1-Dichloroethane	4.98	63	971276	8.657	ppbv 99
25) Ethyl Acetate	5.65	43	2439685	7.887	ppbv 99
26) Hexane	5.66	57	1115280	7.481	ppbv 98
27) Carbon Disulfide	4.53	76	1240344	9.287	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1027077	8.110	ppbv 99
29) Chloroform	5.72	83	1810995	8.242	ppbv 100
30) Cyclohexane	7.10	84	961053	7.100	ppbv 94
31) cis-1,2-Dichloroethene	5.52	61	1105040	7.792	ppbv 94
32) 1,1,1-Trichloroethane	6.48	97	1786372	8.011	ppbv 97
34) 2-Butanone	5.21	43	1120097	9.620	ppbv 96
35) Carbon Tetrachloride	6.98	117	1901291	9.371	ppbv 98
36) Benzene	6.86	78	2371912	8.235	ppbv 99
37) 1,2-Dichloroethane	6.27	62	1359212	9.771	ppbv 97
38) Trichloroethene	7.80	130	861061	7.925	ppbv 96
39) 1,2-Dichloropropane	7.57	63	939217	8.500	ppbv 94
40) 1,4-Dioxane	7.79	88	229056	7.957	ppbv # 1
41) Tetrahydrofuran	6.02	42	598915	8.286	ppbv 95
42) Bromodichloromethane	7.75	83	2052193	9.704	ppbv 100
43) Methyl Methacrylate	7.98	69	885355	8.984	ppbv 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	3939412	8.175	ppbv	98
45) t-1,3-Dichloropropene	9.24	75	849029	10.741	ppbv	95
46) cis-1,3-Dichloropropene	8.66	75	1057398	9.890	ppbv	93
47) 1,1,2-Trichloroethane	9.44	97	944113	8.159	ppbv	93
48) Dibromochloromethane	10.27	129	1702663	9.662	ppbv	98
49) Bromoform	13.00	173	1339984	10.628	ppbv	97
50) 4-Methyl-2-Pentanone	8.70	43	1704416	9.639	ppbv	96
51) 2-Hexanone	10.10	43	828187	9.955	ppbv #	95
52) Tetrachloroethene	11.18	164	780601	7.324	ppbv	97
53) Toluene	9.77	91	2677335	8.079	ppbv	97
54) 1,2-Dibromoethane	10.57	107	1420158	8.688	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.08	131	1051770	8.803	ppbv	95
57) Chlorobenzene	12.11	112	1917438	8.128	ppbv	96
58) Ethyl Benzene	12.67	91	3553461	8.169	ppbv	96
59) m/p-Xylene	12.95	91	5990152m	16.358	ppbv	
60) o-Xylene	13.65	91	2777594	8.177	ppbv	96
61) Styrene	13.48	104	1471541	8.080	ppbv	93
62) Isopropylbenzene	14.63	105	3771285	7.821	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.63	83	2112698	8.373	ppbv	98
64) n-propylbenzene	15.52	120	989211	8.053	ppbv	92
65) tert-Butylbenzene	16.70	119	3314233	7.801	ppbv	96
66) Benzyl Chloride	16.94	91	253694	11.783	ppbv	95
67) sec-Butylbenzene	17.25	105	4674636	7.897	ppbv	100
69) p-Isopropyltoluene	17.61	119	3813060	8.235	ppbv	98
70) n-Butylbenzene	18.51	91	3983752	8.998	ppbv	98
71) 2-Chlorotoluene	15.41	91	2948974	8.365	ppbv	96
72) 4-Ethyltoluene	15.80	105	3213342	8.159	ppbv	97
73) 1,3,5-Trimethylbenzene	15.95	105	2893228	8.043	ppbv	98
74) 1,2,4-Trimethylbenzene	16.72	105	3052639	8.235	ppbv	96
75) 1,3-Dichlorobenzene	16.95	146	1736780	8.530	ppbv	99
76) 1,4-Dichlorobenzene	17.09	146	1696734	8.281	ppbv	100
77) 1,2-Dichlorobenzene	17.77	146	1674513	8.494	ppbv	99
78) Hexachloro-1,3-Butadiene	23.33	225	995078	8.084	ppbv	98
79) Naphthalene	22.14	128	1858461	9.520	ppbv	99
80) Naphthalene,2-methyl-	24.93	142	362602	8.667	ppbv #	90
81) 1,2,4-Trichlorobenzene	21.87	180	1033419	9.212	ppbv	97

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

