

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030822\
 Data File : VL038554.D
 Acq On : 8 Mar 2022 11:49
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Quant Time: Mar 08 14:06:52 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822A

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

QLast Update : Tue Mar 08 13:53:01 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/10/2022
 Supervised By : Mahesh Dadoda 03/14/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	914794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2404870	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2261376	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1629617	8.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.10%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	268299	1.85	ppbv	98
3) Chlorodifluoromethane	2.99	51	337693	2.09	ppbv	99
4) Chloromethane	3.14	50	119603	2.13	ppbv	99
5) Vinyl Chloride	3.26	62	118501	2.02	ppbv	98
6) Bromomethane	3.47	94	65237	2.11	ppbv	95
7) Chloroethane	3.56	64	41155m	2.18	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	270035	2.00	ppbv	96
9) Propene	3.01	41	122031	2.29	ppbv	98
10) Heptane	8.11	43	292869	2.26	ppbv	97
11) Trichlorofluoromethane	3.94	101	250618	1.81	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	202475	1.99	ppbv	98
13) Ethanol	3.61	45	14155m	2.66	ppbv	
14) Bromoethene	3.74	108	81067	2.00	ppbv	93
15) Acetone	3.85	43	136243	1.75	ppbv	100
16) 1,3-Butadiene	3.33	39	104792	2.02	ppbv	95
17) tert-Butyl alcohol	4.29	59	138310m	1.78	ppbv	
18) 1,1-Dichloroethene	4.29	96	85590	1.92	ppbv	97
19) Isopropyl Alcohol	3.97	45	82386m	1.83	ppbv	
20) Methylene Chloride	4.34	84	82415m	2.14	ppbv	
21) Allyl Chloride	4.40	41	129252	1.97	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	88969	1.97	ppbv	100
23) Vinyl Acetate	5.07	43	189227	1.84	ppbv	98
24) 1,1-Dichloroethane	5.00	63	176933	1.91	ppbv	98
25) Ethyl Acetate	5.67	43	467129	2.23	ppbv	99
26) Hexane	5.68	57	221111	2.34	ppbv	98
27) Carbon Disulfide	4.54	76	209166	1.99	ppbv	97
28) Methyl tert-Butyl Ether	5.03	73	183827	1.91	ppbv	100
29) Chloroform	5.74	83	328125	2.12	ppbv	97
30) Cyclohexane	7.12	84	184773	2.39	ppbv	89
31) cis-1,2-Dichloroethene	5.54	61	200500	2.19	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	313138	2.02	ppbv	99
34) 2-Butanone	5.24	43	133794	1.77	ppbv	97
35) Carbon Tetrachloride	7.01	117	323098	1.91	ppbv	98
36) Benzene	6.88	78	459283	2.17	ppbv	98
37) 1,2-Dichloroethane	6.29	62	218839	1.79	ppbv	98
38) Trichloroethene	7.83	130	169767	2.20	ppbv	97
39) 1,2-Dichloropropane	7.60	63	176648	2.09	ppbv	95
40) 1,4-Dioxane	7.83	88	43926m	2.20	ppbv	
41) Tetrahydrofuran	6.05	42	99620	1.95	ppbv	94
42) Bromodichloromethane	7.78	83	347442	1.97	ppbv	97
43) Methyl Methacrylate	8.01	69	156816	2.13	ppbv	98

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 QLast Update : Tue Mar 08 13:53:01 2022
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	797057	2.19	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	108047	1.84	ppbv	100
46) cis-1,3-Dichloropropene	8.69	75	148808	1.93	ppbv	94
47) 1,1,2-Trichloroethane	9.46	97	178707	2.13	ppbv	98
48) Dibromochloromethane	10.29	129	286380	2.09	ppbv	99
49) Bromoform	13.02	173	218240	2.16	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	274978	2.06	ppbv	100
51) 2-Hexanone	10.13	43	109054	1.82	ppbv	97
52) Tetrachloroethene	11.21	164	162313	2.31	ppbv	99
53) Toluene	9.79	91	499095	2.17	ppbv	99
54) 1,2-Dibromoethane	10.60	107	242708	2.06	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	192930	2.05	ppbv #	1
57) Chlorobenzene	12.13	112	355568	2.04	ppbv	98
58) Ethyl Benzene	12.70	91	628273	2.03	ppbv	100
59) m/p-Xylene	12.98	91	1063669m	4.01	ppbv	
60) o-Xylene	13.68	91	501992	2.00	ppbv	99
61) Styrene	13.51	104	246497	2.13	ppbv	99
62) Isopropylbenzene	14.65	105	696516	2.07	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.66	83	386298m	1.89	ppbv	
64) n-propylbenzene	15.54	120	177472	2.13	ppbv	91
65) tert-Butylbenzene	16.73	119	637383	2.18	ppbv	99
66) Benzyl Chloride	16.97	91	34504m	2.19	ppbv	
67) sec-Butylbenzene	17.28	105	906280	2.19	ppbv	99
69) p-Isopropyltoluene	17.63	119	743897	2.29	ppbv	98
70) n-Butylbenzene	18.54	91	797590	2.37	ppbv	99
71) 2-Chlorotoluene	15.44	91	522582	2.02	ppbv	98
72) 4-Ethyltoluene	15.82	105	579223	2.09	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	528556	2.10	ppbv	96
74) 1,2,4-Trimethylbenzene	16.75	105	589339	2.22	ppbv	96
75) 1,3-Dichlorobenzene	16.98	146	349794	2.35	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	359146m	2.45	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	359102	2.51	ppbv	98
78) Hexachloro-1,3-Butadiene	23.36	225	358482	3.29	ppbv	99
79) Naphthalene	22.18	128	549511	3.82	ppbv	97
80) Naphthalene,2-methyl-	24.96	142	83000	2.96	ppbv	95
81) 1,2,4-Trichlorobenzene	21.91	180	326999	3.76	ppbv	98

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

