

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034783.D
 Acq On : 4 Mar 2020 5:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 ICVVL030420

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:26 PM

Quant Time: Mar 04 06:48:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1096060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2297050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2360401	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.47	95	1947564	9.90	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1377508	7.701	ppbv	95
3) Chlorodifluoromethane	2.96	51	1100694	8.815	ppbv	99
4) Chloromethane	3.11	50	615196	9.147	ppbv	94
5) Vinyl Chloride	3.23	62	613680	8.637	ppbv	99
6) Bromomethane	3.45	94	358520	9.245	ppbv	96
7) Chloroethane	3.54	64	236806	9.639	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1391238	8.953	ppbv	100
9) Propene	2.98	41	471010	9.583	ppbv	99
10) Heptane	8.15	43	1239929	9.926	ppbv	97
11) Trichlorofluoromethane	3.93	101	1426594	8.913	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	973542	8.816	ppbv	99
13) Ethanol	3.59	45	129333	7.680	ppbv	98
14) Bromoethene	3.72	108	434717	9.593	ppbv	97
15) Acetone	3.83	43	1132155	8.626	ppbv	100
16) 1,3-Butadiene	3.30	39	572670	9.643	ppbv	99
17) tert-Butyl alcohol	4.28	59	1002152	9.683	ppbv	99
18) 1,1-Dichloroethene	4.28	96	457060	9.384	ppbv	97
19) Isopropyl Alcohol	3.96	45	795109	10.110	ppbv	100
20) Methylene Chloride	4.33	84	407448	8.698	ppbv	97
21) Allyl Chloride	4.40	41	803244	9.664	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	456383	9.599	ppbv	99
23) Vinyl Acetate	5.08	43	1793254	10.189	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1281586	9.382	ppbv	98
25) Ethyl Acetate	5.68	43	2163708	9.540	ppbv	100
26) Hexane	5.69	57	958222	9.671	ppbv	99
27) Carbon Disulfide	4.55	76	1194725	10.321	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1422075	9.642	ppbv	100
29) Chloroform	5.77	83	1522135	9.126	ppbv	99
30) Cyclohexane	7.15	84	791618	10.443	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	995325	9.794	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	1455889	8.833	ppbv	99
34) 2-Butanone	5.25	43	1432214	9.584	ppbv	99
35) Carbon Tetrachloride	7.04	117	1525331	8.800	ppbv	99
36) Benzene	6.92	78	1899532	9.677	ppbv	98
37) 1,2-Dichloroethane	6.33	62	1254143	9.354	ppbv	100
38) Trichloroethene	7.87	130	704902	9.214	ppbv	98
39) 1,2-Dichloropropane	7.65	63	754482	9.525	ppbv	98
40) 1,4-Dioxane	7.86	88	295253	10.776	ppbv #	93
41) Tetrahydrofuran	6.06	42	791609	10.382	ppbv	99
42) Bromodichloromethane	7.82	83	1651165	9.733	ppbv	99
43) Methyl Methacrylate	8.04	69	864896	10.398	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3299861	9.620	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1042039	11.934	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1216088	11.405	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	784683	9.383	ppbv #	88
48) Dibromochloromethane	10.35	129	1332159	10.187	ppbv	100
49) Bromoform	13.10	173	1168105	10.236	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	2147294	10.028	ppbv	100
51) 2-Hexanone	10.17	43	1790233	10.658	ppbv	99
52) Tetrachloroethene	11.27	164	663493	9.149	ppbv	94
53) Toluene	9.84	91	2163384	10.414	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1209055	9.777	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	940010	8.988	ppbv #	60
57) Chlorobenzene	12.20	112	1614118	8.952	ppbv	95
58) Ethyl Benzene	12.76	91	2930733	10.075	ppbv	99
59) m/p-Xylene	13.05	91	4840906m	19.225	ppbv	
60) o-Xylene	13.74	91	2396058	9.405	ppbv	100
61) Styrene	13.58	104	1701496	10.766	ppbv	98
62) Isopropylbenzene	14.72	105	3346781	8.926	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1719679	8.563	ppbv	100
64) n-propylbenzene	15.61	120	876657m	9.324	ppbv	
65) tert-Butylbenzene	16.80	119	2904228	9.165	ppbv	99
66) Benzyl Chloride	17.05	91	1403347	13.699	ppbv	99
67) sec-Butylbenzene	17.36	105	4188904	9.072	ppbv	99
69) p-Isopropyltoluene	17.72	119	3439178	9.204	ppbv	99
70) n-Butylbenzene	18.61	91	3742838	9.160	ppbv	100
71) 2-Chlorotoluene	15.51	91	2661780	9.399	ppbv	100
72) 4-Ethyltoluene	15.90	105	2698738	9.514	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	2622711	9.639	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2740841	9.266	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	1563435	8.929	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1561785	9.321	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1515925	9.050	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1204500	8.617	ppbv	100
79) Naphthalene	22.28	128	2618176	11.779	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	592716	11.164	ppbv	99
81) 1,2,4-Trichlorobenzene	22.01	180	1409906	10.034	ppbv	99

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

