

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034575.D
 Acq On : 30 Jan 2020 16:35
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL013020

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:25:28 PM

Quant Time: Jan 30 17:22:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:22:36 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1220446	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2493514	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2629993m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2118887	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	2186386	8.134	ppbv	97
3) Chlorodifluoromethane	2.95	51	1364777	9.255	ppbv	98
4) Chloromethane	3.10	50	759749	8.420	ppbv	100
5) Vinyl Chloride	3.22	62	735809	8.538	ppbv	98
6) Bromomethane	3.44	94	430387	9.601	ppbv	99
7) Chloroethane	3.53	64	282602	8.817	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	1734231	8.254	ppbv	99
9) Propene	2.97	41	554240	9.653	ppbv	99
10) Heptane	8.13	43	1399512	9.685	ppbv	99
11) Trichlorofluoromethane	3.92	101	1997434	8.180	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1344601	8.439	ppbv	100
13) Ethanol	3.57	45	126735	8.240	ppbv	99
14) Bromoethene	3.71	108	551448	8.823	ppbv	99
15) Acetone	3.82	43	1514827	8.445	ppbv	97
16) 1,3-Butadiene	3.29	39	660949	9.279	ppbv	98
17) tert-Butyl alcohol	4.27	59	1175114	8.908	ppbv	100
18) 1,1-Dichloroethene	4.27	96	587860	8.741	ppbv	98
19) Isopropyl Alcohol	3.94	45	891996	8.522	ppbv #	98
20) Methylene Chloride	4.32	84	516567	7.563	ppbv	98
21) Allyl Chloride	4.39	41	993925	8.922	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	606863	8.616	ppbv	96
23) Vinyl Acetate	5.06	43	2111870	10.320	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1534100	8.979	ppbv	99
25) Ethyl Acetate	5.67	43	2512529	8.652	ppbv	100
26) Hexane	5.68	57	1131285	9.301	ppbv	94
27) Carbon Disulfide	4.53	76	1498736	9.132	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	2025537	9.765	ppbv	99
29) Chloroform	5.75	83	1843062	8.570	ppbv	99
30) Cyclohexane	7.14	84	896629	9.948	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1200552	9.500	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1928460	8.351	ppbv	99
34) 2-Butanone	5.23	43	1669235	9.220	ppbv	99
35) Carbon Tetrachloride	7.02	117	2005247	8.412	ppbv	97
36) Benzene	6.90	78	2119459	9.558	ppbv	97
37) 1,2-Dichloroethane	6.31	62	1578857	8.534	ppbv	99
38) Trichloroethene	7.85	130	859214	9.192	ppbv	97
39) 1,2-Dichloropropane	7.63	63	880744	9.581	ppbv	92
40) 1,4-Dioxane	7.84	88	300953	8.517	ppbv	81
41) Tetrahydrofuran	6.04	42	941117	9.964	ppbv	99
42) Bromodichloromethane	7.81	83	2051077	9.008	ppbv	98
43) Methyl Methacrylate	8.03	69	902243	10.116	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3742010	9.301	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1166954	9.992	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1332288	10.037	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	902255	9.062	ppbv	98
48) Dibromochloromethane	10.33	129	1707963m	9.362	ppbv	
49) Bromoform	13.08	173	1523492	9.511	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2436013	9.435	ppbv	100
51) 2-Hexanone	10.15	43	1987859	9.780	ppbv #	99
52) Tetrachloroethene	11.25	164	817415	9.176	ppbv	97
53) Toluene	9.83	91	2430112	9.976	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1430232	9.586	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1164045	8.965	ppbv	96
57) Chlorobenzene	12.18	112	1864735	8.617	ppbv	98
58) Ethyl Benzene	12.74	91	3336558	9.481	ppbv	94
59) m/p-Xylene	13.03	91	5613542m	18.044	ppbv	
60) o-Xylene	13.73	91	2841123	9.093	ppbv	99
61) Styrene	13.56	104	1990921	9.557	ppbv	99
62) Isopropylbenzene	14.71	105	3726572m	9.204	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.72	83	2039847	8.442	ppbv	100
64) n-propylbenzene	15.60	120	969721	9.310	ppbv	96
65) tert-Butylbenzene	16.78	119	3386001	9.231	ppbv	100
66) Benzyl Chloride	17.03	91	1599515	10.400	ppbv	100
67) sec-Butylbenzene	17.34	105	4613509	9.152	ppbv	99
69) p-Isopropyltoluene	17.69	119	3867652	9.449	ppbv	100
70) n-Butylbenzene	18.59	91	4058909	9.342	ppbv	100
71) 2-Chlorotoluene	15.49	91	2904560	9.451	ppbv	99
72) 4-Ethyltoluene	15.88	105	3186015	9.283	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	3089067	9.211	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	3238883	8.724	ppbv #	90
75) 1,3-Dichlorobenzene	17.04	146	1808996	8.463	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1793660	8.514	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1783718	8.686	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	1501366	7.646	ppbv	99
79) Naphthalene	22.26	128	2599891	8.895	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	641422	5.705	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1484914	8.241	ppbv	99

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

