

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034621.D
 Acq On : 18 Feb 2020 12:12
 Operator : SY/AP
 Sample : VL0218ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0218ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:25:25 PM

Quant Time: Feb 19 06:19:16 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

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	1000225	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2052213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2200727	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1825775	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	2083762	9.459 ppbv	98
3) Chlorodifluoromethane	2.95	51	1163453	9.626 ppbv	100
4) Chloromethane	3.11	50	701435	9.486 ppbv	100
5) Vinyl Chloride	3.22	62	672469	9.521 ppbv	98
6) Bromomethane	3.44	94	359716	9.791 ppbv	99
7) Chloroethane	3.52	64	253261	9.642 ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1633181	9.484 ppbv	99
9) Propene	2.97	41	453989	9.648 ppbv	99
10) Heptane	8.13	43	1220402	10.305 ppbv	100
11) Trichlorofluoromethane	3.92	101	1932999	9.659 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1303491	9.983 ppbv	99
13) Ethanol	3.57	45	103819	8.237 ppbv	99
14) Bromoethene	3.71	108	516318	10.080 ppbv	98
15) Acetone	3.82	43	1330637	9.052 ppbv	98
16) 1,3-Butadiene	3.29	39	586409	10.045 ppbv	97
17) tert-Butyl alcohol	4.27	59	1104349	10.215 ppbv	99
18) 1,1-Dichloroethene	4.27	96	571586	10.370 ppbv	94
19) Isopropyl Alcohol	3.94	45	841671	9.811 ppbv	100
20) Methylene Chloride	4.32	84	507961	9.075 ppbv	97
21) Allyl Chloride	4.39	41	933345	10.223 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	594611	10.300 ppbv	94
23) Vinyl Acetate	5.06	43	1686491	10.056 ppbv	99
24) 1,1-Dichloroethane	5.00	63	1354755	9.675 ppbv	99
25) Ethyl Acetate	5.67	43	2282502	9.591 ppbv	99
26) Hexane	5.68	57	981769	9.849 ppbv	98
27) Carbon Disulfide	4.53	76	1483199	11.027 ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1735514	10.209 ppbv	100
29) Chloroform	5.75	83	1685853	9.564 ppbv	97
30) Cyclohexane	7.14	84	760023	10.289 ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1054668	10.183 ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1753222	9.263 ppbv	100
34) 2-Butanone	5.23	43	1437364	9.646 ppbv	99
35) Carbon Tetrachloride	7.02	117	1909248	9.731 ppbv	95
36) Benzene	6.90	78	1849304	10.133 ppbv	96
37) 1,2-Dichloroethane	6.31	62	1458264	9.577 ppbv	100
38) Trichloroethene	7.85	130	797076	10.361 ppbv	98
39) 1,2-Dichloropropane	7.62	63	739681	9.777 ppbv	97
40) 1,4-Dioxane	7.84	88	291037	10.007 ppbv	# 1
41) Tetrahydrofuran	6.04	42	772445	9.937 ppbv	98
42) Bromodichloromethane	7.81	83	1871133	9.984 ppbv	100
43) Methyl Methacrylate	8.02	69	780270	10.630 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3289910	9.936	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1116884	11.620	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1233767	11.293	ppbv	95
47) 1,1,2-Trichloroethane	9.49	97	814538	9.940	ppbv	97
48) Dibromochloromethane	10.33	129	1590378	10.592	ppbv	100
49) Bromoform	13.08	173	1434189	10.879	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2133624	10.041	ppbv	100
51) 2-Hexanone	10.15	43	1756964	10.503	ppbv #	100
52) Tetrachloroethene	11.25	164	728216	9.933	ppbv	96
53) Toluene	9.82	91	2179210	10.870	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1246988	10.155	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	1051777	9.681	ppbv	96
57) Chlorobenzene	12.17	112	1748187	9.654	ppbv	99
58) Ethyl Benzene	12.74	91	3045124	10.340	ppbv	96
59) m/p-Xylene	13.03	91	5068358m	19.469	ppbv	
60) o-Xylene	13.73	91	2590051	9.907	ppbv	99
61) Styrene	13.56	104	1868583	10.719	ppbv	99
62) Isopropylbenzene	14.70	105	3340716	9.861	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1799949	8.902	ppbv	99
64) n-propylbenzene	15.60	120	864094	9.914	ppbv	95
65) tert-Butylbenzene	16.79	119	3018982	9.836	ppbv	99
66) Benzyl Chloride	17.03	91	1459379	11.339	ppbv	100
67) sec-Butylbenzene	17.33	105	4113775	9.752	ppbv	99
69) p-Isopropyltoluene	17.69	119	3365042	9.825	ppbv	100
70) n-Butylbenzene	18.59	91	3550254	9.765	ppbv	99
71) 2-Chlorotoluene	15.49	91	2580157	10.033	ppbv	99
72) 4-Ethyltoluene	15.88	105	2899061	10.095	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2790961	9.946	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2922671	9.408	ppbv #	91
75) 1,3-Dichlorobenzene	17.04	146	1639618	9.166	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1640382	9.305	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1555641	9.053	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1462607	8.901	ppbv	100
79) Naphthalene	22.26	128	2463197	10.072	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1246598	13.249	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1518943	10.074	ppbv	98

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

