

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034650.D
 Acq On : 19 Feb 2020 13:31
 Operator : SY/AP
 Sample : VL0219ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0219ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:02 PM

Quant Time: Feb 20 07:15:25 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 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	887356	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1813543	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2036974	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1659700	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1329117	6.800	ppbv	95
3) Chlorodifluoromethane	2.95	51	1112420	10.375	ppbv	99
4) Chloromethane	3.10	50	671858	10.241	ppbv	98
5) Vinyl Chloride	3.22	62	636693	10.161	ppbv	97
6) Bromomethane	3.44	94	354605	10.880	ppbv	96
7) Chloroethane	3.52	64	249862	10.722	ppbv	99
8) Dichlorotetrafluoroethane	3.15	85	1606208	10.514	ppbv	98
9) Propene	2.97	41	396459	9.497	ppbv	99
10) Heptane	8.13	43	1143351	10.883	ppbv	98
11) Trichlorofluoromethane	3.92	101	1922979	10.831	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1286467	11.105	ppbv	99
13) Ethanol	3.57	45	111914	10.008	ppbv	100
14) Bromoethene	3.71	108	507806	11.175	ppbv	100
15) Acetone	3.82	43	1336641	10.249	ppbv	100
16) 1,3-Butadiene	3.29	39	580998	11.219	ppbv	99
17) tert-Butyl alcohol	4.27	59	1275496	13.299	ppbv	99
18) 1,1-Dichloroethene	4.26	96	555464	11.359	ppbv	93
19) Isopropyl Alcohol	3.94	45	983793	12.927	ppbv	99
20) Methylene Chloride	4.32	84	496326	9.995	ppbv	98
21) Allyl Chloride	4.39	41	917593	11.329	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	581565	11.356	ppbv	98
23) Vinyl Acetate	5.06	43	1581112	10.626	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1305604	10.510	ppbv	99
25) Ethyl Acetate	5.66	43	2165470	10.257	ppbv	99
26) Hexane	5.68	57	931146	10.529	ppbv	98
27) Carbon Disulfide	4.53	76	1478652	12.391	ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1611828	10.687	ppbv	99
29) Chloroform	5.74	83	1641822	10.499	ppbv	94
30) Cyclohexane	7.14	84	730921	11.154	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	993458	10.812	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	1711033	10.190	ppbv	100
34) 2-Butanone	5.23	43	1329937	10.100	ppbv	99
35) Carbon Tetrachloride	7.02	117	1892493	10.915	ppbv	97
36) Benzene	6.90	78	1750157	10.852	ppbv	94
37) 1,2-Dichloroethane	6.31	62	1442997	10.724	ppbv	99
38) Trichloroethene	7.84	130	783403	11.524	ppbv	97
39) 1,2-Dichloropropane	7.62	63	703814	10.527	ppbv	98
40) 1,4-Dioxane	7.84	88	290727	11.312	ppbv #	1
41) Tetrahydrofuran	6.04	42	711188	10.353	ppbv	97
42) Bromodichloromethane	7.80	83	1836645	11.090	ppbv	97
43) Methyl Methacrylate	8.02	69	747456	11.523	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3147583	10.757	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1070026	12.598	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1175046	12.172	ppbv	95
47) 1,1,2-Trichloroethane	9.49	97	782061	10.800	ppbv	99
48) Dibromochloromethane	10.33	129	1526451	11.504	ppbv	98
49) Bromoform	13.08	173	1382587	11.868	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2061822	10.980	ppbv	99
51) 2-Hexanone	10.15	43	1689089	11.426	ppbv	100
52) Tetrachloroethene	11.25	164	694634	10.722	ppbv	99
53) Toluene	9.82	91	2088930	11.791	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1211972	11.169	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	1031130	10.253	ppbv	100
57) Chlorobenzene	12.18	112	1681418	10.031	ppbv	99
58) Ethyl Benzene	12.74	91	2904003	10.654	ppbv	98
59) m/p-Xylene	13.03	91	4942389m	20.512	ppbv	
60) o-Xylene	13.73	91	2533682	10.470	ppbv	100
61) Styrene	13.56	104	1805577	11.190	ppbv	99
62) Isopropylbenzene	14.70	105	3241429	10.337	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1751016	9.356	ppbv	99
64) n-propylbenzene	15.59	120	840665	10.420	ppbv	92
65) tert-Butylbenzene	16.78	119	2959664	10.418	ppbv	99
66) Benzyl Chloride	17.03	91	1421425	11.932	ppbv	100
67) sec-Butylbenzene	17.33	105	4002135	10.250	ppbv	99
69) p-Isopropyltoluene	17.69	119	3369888	10.630	ppbv	100
70) n-Butylbenzene	18.59	91	3512586	10.438	ppbv	99
71) 2-Chlorotoluene	15.49	91	2525415	10.610	ppbv	100
72) 4-Ethyltoluene	15.88	105	2808103	10.564	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2731715	10.517	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2888250	10.045	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	1631253	9.853	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1597707	9.791	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1524688	9.586	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1447984	9.520	ppbv	100
79) Naphthalene	22.26	128	2456371	10.851	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1322808	15.189	ppbv	98
81) 1,2,4-Trichlorobenzene	21.98	180	1512426	10.837	ppbv	99

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

