

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034652.D
 Acq On : 19 Feb 2020 18:58
 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 3:24:06 PM

Quant Time: Feb 20 07:29:14 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	5.65	49	976641	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2015552	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2087677	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1737233	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1519886	7.066 ppbv	94
3) Chlorodifluoromethane	2.94	51	1300999	11.024 ppbv	100
4) Chloromethane	3.10	50	718952	9.957 ppbv	99
5) Vinyl Chloride	3.21	62	707527	10.259 ppbv	98
6) Bromomethane	3.44	94	417217	11.630 ppbv	100
7) Chloroethane	3.52	64	272383	10.620 ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	1718038	10.218 ppbv	99
9) Propene	2.96	41	485447	10.565 ppbv	98
10) Heptane	8.13	43	1234785	10.678 ppbv	98
11) Trichlorofluoromethane	3.92	101	1952651	9.993 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1320664	10.358 ppbv	99
13) Ethanol	3.57	45	154216	12.530 ppbv	99
14) Bromoethene	3.70	108	541727	10.832 ppbv	98
15) Acetone	3.82	43	1614482	11.248 ppbv	97
16) 1,3-Butadiene	3.29	39	639685	11.223 ppbv	99
17) tert-Butyl alcohol	4.27	59	1449458	13.731 ppbv	100
18) 1,1-Dichloroethene	4.26	96	596617	11.085 ppbv	96
19) Isopropyl Alcohol	3.94	45	1120756	13.380 ppbv	100
20) Methylene Chloride	4.32	84	524418	9.595 ppbv	95
21) Allyl Chloride	4.38	41	948310	10.638 ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	575823	10.216 ppbv	93
23) Vinyl Acetate	5.05	43	2018913	12.328 ppbv	98
24) 1,1-Dichloroethane	4.99	63	1453098	10.628 ppbv	99
25) Ethyl Acetate	5.66	43	2305008	9.919 ppbv	99
26) Hexane	5.67	57	1034434	10.628 ppbv	94
27) Carbon Disulfide	4.52	76	1467419	11.173 ppbv	100
28) Methyl tert-Butyl Ether	5.01	73	1882102	11.338 ppbv	100
29) Chloroform	5.74	83	1754490	10.194 ppbv	97
30) Cyclohexane	7.13	84	815129	11.301 ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1114746	11.023 ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	1864374	10.089 ppbv	99
34) 2-Butanone	5.23	43	1528744	10.446 ppbv	99
35) Carbon Tetrachloride	7.02	117	1959720	10.170 ppbv	95
36) Benzene	6.89	78	1952964	10.896 ppbv	97
37) 1,2-Dichloroethane	6.30	62	1533163	10.252 ppbv	100
38) Trichloroethene	7.84	130	812967	10.760 ppbv	98
39) 1,2-Dichloropropane	7.62	63	786273	10.582 ppbv	98
40) 1,4-Dioxane	7.84	88	331140	11.593 ppbv	83
41) Tetrahydrofuran	6.03	42	808841	10.594 ppbv	98
42) Bromodichloromethane	7.80	83	1939804	10.539 ppbv	99
43) Methyl Methacrylate	8.02	69	825316	11.448 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3433959	10.559	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1084854	11.492	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1230625	11.470	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	861592	10.706	ppbv	96
48) Dibromochloromethane	10.33	129	1624375	11.015	ppbv	100
49) Bromoform	13.07	173	1456265	11.247	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2217557	10.625	ppbv	99
51) 2-Hexanone	10.15	43	1789861	10.895	ppbv #	98
52) Tetrachloroethene	11.24	164	753323	10.462	ppbv	97
53) Toluene	9.82	91	2256923	11.462	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1350931	11.202	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1113140	10.800	ppbv	98
57) Chlorobenzene	12.17	112	1780868	10.367	ppbv	99
58) Ethyl Benzene	12.74	91	3126313	11.191	ppbv	98
59) m/p-Xylene	13.02	91	5207422m	21.087	ppbv	
60) o-Xylene	13.72	91	2677763	10.797	ppbv	100
61) Styrene	13.56	104	1856680	11.228	ppbv	99
62) Isopropylbenzene	14.70	105	3495130	10.875	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1955687	10.196	ppbv	100
64) n-propylbenzene	15.60	120	926734	11.208	ppbv	99
65) tert-Butylbenzene	16.78	119	3270119	11.231	ppbv	100
66) Benzyl Chloride	17.03	91	1566724	12.833	ppbv	100
67) sec-Butylbenzene	17.33	105	4409113	11.019	ppbv	99
69) p-Isopropyltoluene	17.69	119	3678059	11.320	ppbv	100
70) n-Butylbenzene	18.59	91	3897100	11.300	ppbv	99
71) 2-Chlorotoluene	15.49	91	2757802	11.305	ppbv	100
72) 4-Ethyltoluene	15.87	105	3014750	11.066	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	2941884	11.051	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	3113313	10.565	ppbv	96
75) 1,3-Dichlorobenzene	17.04	146	1731149	10.202	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1701004	10.171	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1683930	10.331	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1468820	9.423	ppbv	99
79) Naphthalene	22.25	128	2516411	10.846	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	514551	5.765	ppbv #	94
81) 1,2,4-Trichlorobenzene	21.98	180	1462636	10.226	ppbv	98

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

