

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022620\
 Data File : VL034685.D
 Acq On : 26 Feb 2020 8:55
 Operator : SY/AP
 Sample : VL0226ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0226ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/27/2020 5:19:44 PM

Quant Time: Feb 27 07:36:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 27 07:36:58 2020
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1096563	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2272905	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2515044m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1952362	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	1307360	7.558 ppbv	96
3) Chlorodifluoromethane	2.95	51	1065856	9.007 ppbv	100
4) Chloromethane	3.10	50	620627	9.369 ppbv	100
5) Vinyl Chloride	3.22	62	615706	9.474 ppbv	99
6) Bromomethane	3.44	94	357198	9.382 ppbv	92
7) Chloroethane	3.52	64	224359	9.299 ppbv	93
8) Dichlorotetrafluoroethane	3.15	85	1338029	8.745 ppbv	100
9) Propene	2.97	41	459792	9.295 ppbv	100
10) Heptane	8.13	43	1293337	10.158 ppbv	100
11) Trichlorofluoromethane	3.92	101	1374853	9.074 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	951548	8.910 ppbv	99
13) Ethanol	3.57	45	121232	7.758 ppbv	95
14) Bromoethene	3.71	108	411685	9.239 ppbv	99
15) Acetone	3.82	43	1081448	8.655 ppbv	100
16) 1,3-Butadiene	3.29	39	556001	9.612 ppbv	99
17) tert-Butyl alcohol	4.27	59	885901	9.252 ppbv	99
18) 1,1-Dichloroethene	4.27	96	444430	9.269 ppbv	92
19) Isopropyl Alcohol	3.94	45	742202	9.972 ppbv	99
20) Methylene Chloride	4.32	84	390303	8.399 ppbv	94
21) Allyl Chloride	4.39	41	785916	9.506 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	441432	9.442 ppbv	98
23) Vinyl Acetate	5.06	43	1716661	10.106 ppbv	99
24) 1,1-Dichloroethane	5.00	63	1241267	9.149 ppbv	100
25) Ethyl Acetate	5.67	43	2092116	9.458 ppbv	100
26) Hexane	5.68	57	974809	9.562 ppbv	98
27) Carbon Disulfide	4.53	76	1170279	10.113 ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1317433	9.046 ppbv	100
29) Chloroform	5.75	83	1493387	9.194 ppbv	98
30) Cyclohexane	7.13	84	790136	10.000 ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1006714	10.034 ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	1402425	9.246 ppbv	98
34) 2-Butanone	5.23	43	1405624	9.825 ppbv	99
35) Carbon Tetrachloride	7.02	117	1475306	9.692 ppbv	100
36) Benzene	6.90	78	1905525	9.707 ppbv	97
37) 1,2-Dichloroethane	6.31	62	1221893	9.874 ppbv	99
38) Trichloroethene	7.85	130	716372	9.467 ppbv	95
39) 1,2-Dichloropropane	7.62	63	775065	9.924 ppbv	96
40) 1,4-Dioxane	7.84	88	287691m	10.832 ppbv	
41) Tetrahydrofuran	6.04	42	774649	10.259 ppbv	99
42) Bromodichloromethane	7.80	83	1620035	10.000 ppbv	100
43) Methyl Methacrylate	8.02	69	853000	10.331 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3359005	9.790	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1032747	11.462	ppbv	96
46) cis-1,3-Dichloropropene	8.72	75	1192047	11.031	ppbv	96
47) 1,1,2-Trichloroethane	9.50	97	790531	9.866	ppbv	97
48) Dibromochloromethane	10.33	129	1308872	10.505	ppbv	99
49) Bromoform	13.07	173	1152180	10.666	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2143306	10.577	ppbv	99
51) 2-Hexanone	10.15	43	1798127	11.276	ppbv #	99
52) Tetrachloroethene	11.25	164	661896	9.198	ppbv	98
53) Toluene	9.82	91	2204400	10.558	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1208654	10.111	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	911549	8.510	ppbv #	55
57) Chlorobenzene	12.18	112	1630322	8.770	ppbv	98
58) Ethyl Benzene	12.74	91	2936486	9.650	ppbv	98
59) m/p-Xylene	13.03	91	4904856m	18.481	ppbv	
60) o-Xylene	13.72	91	2425777	9.211	ppbv	99
61) Styrene	13.56	104	1731107	10.233	ppbv	99
62) Isopropylbenzene	14.70	105	3408851	8.873	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1747922	8.516	ppbv	100
64) n-propylbenzene	15.60	120	894394	9.030	ppbv	95
65) tert-Butylbenzene	16.79	119	2897969	8.736	ppbv	98
66) Benzyl Chloride	17.03	91	1371479	11.083	ppbv	99
67) sec-Butylbenzene	17.34	105	4178658	8.754	ppbv	99
69) p-Isopropyltoluene	17.69	119	3468723	8.827	ppbv	99
70) n-Butylbenzene	18.59	91	3722294	8.699	ppbv	100
71) 2-Chlorotoluene	15.49	91	2678871	9.003	ppbv	100
72) 4-Ethyltoluene	15.88	105	2774124	9.464	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	2639411	9.360	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	2731893	8.773	ppbv #	88
75) 1,3-Dichlorobenzene	17.04	146	1563808	8.699	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1585848	8.818	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1526566	8.784	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	1241154	8.202	ppbv	100
79) Naphthalene	22.26	128	2662244	9.714	ppbv	98
80) Naphthalene, 2-methyl-	25.02	142	1032784	12.218	ppbv	96
81) 1,2,4-Trichlorobenzene	21.99	180	1407820	8.607	ppbv	98

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

