

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033447.D
 Acq On : 25 Mar 2019 22:06
 Operator : SY/AP
 Sample : K1560-13 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:56:41 AM

Quant Time: Mar 31 10:40:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	708629	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1635070	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1624450	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1270491	9.98	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	15182	0.147 ppbv	99
3) Chlorodifluoromethane	3.01	51	10040	0.123 ppbv	97
4) Chloromethane	3.17	50	5287	0.122 ppbv	98
5) Vinyl Chloride	3.29	62	4743	0.112 ppbv #	74
6) Bromomethane	3.52	94	3602m	0.132 ppbv	
7) Chloroethane	3.60	64	2183m	0.138 ppbv	
8) Dichlorotetrafluoroethane	3.22	85	13254	0.120 ppbv	97
9) Propene	3.03	41	4440	0.130 ppbv	91
10) Heptane	8.25	43	6107m	0.071 ppbv	
11) Trichlorofluoromethane	4.00	101	15233	0.120 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	9556m	0.112 ppbv	
14) Bromoethene	3.78	108	4031m	0.118 ppbv	
15) Acetone	3.92	43	12216m	0.143 ppbv	
16) 1,3-Butadiene	3.36	39	3813	0.113 ppbv	97
18) 1,1-Dichloroethene	4.35	96	3950m	0.107 ppbv	
19) Isopropyl Alcohol	4.05	45	6963m	0.129 ppbv	
21) Allyl Chloride	4.47	41	5470m	0.102 ppbv	
22) trans-1,2-Dichloroethene	4.96	96	4256m	0.111 ppbv	
23) Vinyl Acetate	5.17	43	11930m	0.098 ppbv	
24) 1,1-Dichloroethane	5.09	63	9936m	0.108 ppbv	
25) Ethyl Acetate	5.78	43	13738m	0.087 ppbv	
26) Hexane	5.78	57	6795m	0.097 ppbv	
27) Carbon Disulfide	4.62	76	7347m	0.088 ppbv	
28) Methyl tert-Butyl Ether	5.13	73	7811m	0.077 ppbv	
29) Chloroform	5.85	83	12940	0.107 ppbv	92
30) Cyclohexane	7.27	84	6084m	0.109 ppbv	
31) cis-1,2-Dichloroethene	5.64	61	5926m	0.085 ppbv	
32) 1,1,1-Trichloroethane	6.62	97	11261	0.098 ppbv	95
34) 2-Butanone	5.35	43	9253m	0.094 ppbv	
35) Carbon Tetrachloride	7.13	117	10529	0.091 ppbv #	75
36) Benzene	7.00	78	11032m	0.080 ppbv	
37) 1,2-Dichloroethane	6.40	62	10098	0.110 ppbv	98
38) Trichloroethene	7.96	130	5185m	0.100 ppbv	
39) 1,2-Dichloropropane	7.73	63	5734m	0.107 ppbv	
41) Tetrahydrofuran	6.19	42	3176m	0.059 ppbv	
42) Bromodichloromethane	7.91	83	10953	0.087 ppbv	98
43) Methyl Methacrylate	8.14	69	3148m	0.057 ppbv	
44) 2,2,4-Trimethylpentane	7.99	57	15360m	0.064 ppbv	
45) t-1,3-Dichloropropene	9.41	75	3361	0.049 ppbv #	44
46) cis-1,3-Dichloropropene	8.83	75	5592m	0.070 ppbv	
47) 1,1,2-Trichloroethane	9.61	97	6089m	0.100 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Dibromochloromethane	10.45	129	7795m	0.076	ppbv	
49) Bromoform	13.19	173	6036m	0.061	ppbv	
50) 4-Methyl-2-Pentanone	8.90	43	9062m	0.063	ppbv	
51) 2-Hexanone	10.32	43	5862m	0.055	ppbv	
52) Tetrachloroethene	11.37	164	4686m	0.091	ppbv	
53) Toluene	9.94	91	9741m	0.061	ppbv	
54) 1,2-Dibromoethane	10.75	107	7816m	0.082	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.29	131	7057m	0.095	ppbv	
57) Chlorobenzene	12.30	112	14481m	0.115	ppbv	
58) Ethyl Benzene	12.86	91	14312m	0.066	ppbv	
59) m/p-Xylene	13.12	91	22421m	0.116	ppbv	
60) o-Xylene	13.85	91	10707m	0.057	ppbv	
61) Styrene	13.68	104	6067m	0.047	ppbv	
62) Isopropylbenzene	14.82	105	17770m	0.067	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.84	83	13698m	0.099	ppbv	
64) n-propylbenzene	15.72	120	3393m	0.050	ppbv	
65) tert-Butylbenzene	16.91	119	13281m	0.057	ppbv	
67) sec-Butylbenzene	17.45	105	17422m	0.052	ppbv	
69) p-Isopropyltoluene	17.82	119	13190m	0.049	ppbv	
70) n-Butylbenzene	18.72	91	15815m	0.055	ppbv	
71) 2-Chlorotoluene	15.62	91	13088m	0.065	ppbv	
72) 4-Ethyltoluene	16.01	105	11326m	0.054	ppbv	
73) 1,3,5-Trimethylbenzene	16.15	105	9692m	0.048	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	10911m	0.051	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	13066m	0.098	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	9789	0.075	ppbv	94
77) 1,2-Dichlorobenzene	18.00	146	10122m	0.080	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	9591m	0.114	ppbv	
79) Naphthalene	22.42	128	7238m	0.039	ppbv	
81) 1,2,4-Trichlorobenzene	22.15	180	4949m	0.048	ppbv	

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

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