

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033444.D
 Acq On : 25 Mar 2019 20:12
 Operator : SY/AP
 Sample : K1560-14 1 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:56:38 AM

Quant Time: Mar 31 10:34:42 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 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	784932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1830322	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1814749	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1397829	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	118379	1.034	ppbv	98
3) Chlorodifluoromethane	3.01	51	95802	1.060	ppbv	100
4) Chloromethane	3.17	50	48328	1.011	ppbv	92
5) Vinyl Chloride	3.29	62	50007	1.064	ppbv	94
6) Bromomethane	3.51	94	32693	1.083	ppbv	95
7) Chloroethane	3.60	64	17394	0.995	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	131833	1.081	ppbv	100
9) Propene	3.03	41	38309	1.009	ppbv	97
10) Heptane	8.24	43	92378	0.911	ppbv	99
11) Trichlorofluoromethane	4.00	101	145152	1.029	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	99888	1.054	ppbv	97
13) Ethanol	3.65	45	12902m	1.314	ppbv	
14) Bromoethene	3.79	108	38720	1.024	ppbv	98
15) Acetone	3.90	43	98069	1.039	ppbv	98
16) 1,3-Butadiene	3.36	39	31570	0.843	ppbv #	63
17) tert-Butyl alcohol	4.37	59	20160m	1.162	ppbv	
18) 1,1-Dichloroethene	4.35	96	42575	1.046	ppbv	96
19) Isopropyl Alcohol	4.03	45	66932	1.121	ppbv #	97
20) Methylene Chloride	4.40	84	41145	1.027	ppbv	93
21) Allyl Chloride	4.48	41	59296	0.994	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	41845m	0.985	ppbv	
23) Vinyl Acetate	5.15	43	129141	0.961	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	100317	0.983	ppbv	97
25) Ethyl Acetate	5.77	43	172330	0.984	ppbv	99
26) Hexane	5.78	57	79453	1.020	ppbv	96
27) Carbon Disulfide	4.62	76	85988	0.929	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	109686	0.978	ppbv	97
29) Chloroform	5.84	83	131729	0.987	ppbv	99
30) Cyclohexane	7.25	84	56939	0.924	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	72900	0.942	ppbv	91
32) 1,1,1-Trichloroethane	6.62	97	128242	1.009	ppbv	97
34) 2-Butanone	5.33	43	108581	0.987	ppbv	100
35) Carbon Tetrachloride	7.13	117	130885	1.010	ppbv	97
36) Benzene	7.00	78	151450	0.986	ppbv	97
37) 1,2-Dichloroethane	6.41	62	100221	0.974	ppbv	98
38) Trichloroethene	7.96	130	59369	1.027	ppbv	95
39) 1,2-Dichloropropane	7.73	63	59181	0.984	ppbv	97
40) 1,4-Dioxane	7.98	88	22341m	1.041	ppbv	
41) Tetrahydrofuran	6.16	42	55307	0.914	ppbv	100
42) Bromodichloromethane	7.91	83	132084	0.942	ppbv	96
43) Methyl Methacrylate	8.14	69	55425	0.889	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	265429	0.989	ppbv	97
45) t-1,3-Dichloropropene	9.41	75	63559	0.830	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	75058	0.839	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	67544	0.989	ppbv	98
48) Dibromochloromethane	10.45	129	105567	0.916	ppbv	97
49) Bromoform	13.20	173	89864	0.816	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	153076	0.951	ppbv	98
51) 2-Hexanone	10.29	43	105884m	0.882	ppbv	
52) Tetrachloroethene	11.37	164	57461m	0.992	ppbv	
53) Toluene	9.95	91	158686	0.889	ppbv	99
54) 1,2-Dibromoethane	10.76	107	99685	0.933	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	80291	0.965	ppbv #	1
57) Chlorobenzene	12.30	112	145214	1.031	ppbv #	90
58) Ethyl Benzene	12.86	91	235860	0.973	ppbv	93
59) m/p-Xylene	13.15	91	418534m	1.934	ppbv	
60) o-Xylene	13.85	91	204943	0.979	ppbv	99
61) Styrene	13.69	104	132163	0.920	ppbv	99
62) Isopropylbenzene	14.82	105	287024	0.968	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	153479	0.996	ppbv	99
64) n-propylbenzene	15.72	120	69017	0.918	ppbv	88
65) tert-Butylbenzene	16.90	119	250578	0.959	ppbv	96
66) Benzyl Chloride	17.16	91	87023	0.716	ppbv	100
67) sec-Butylbenzene	17.46	105	360348	0.970	ppbv	99
69) p-Isopropyltoluene	17.82	119	287665	0.951	ppbv	98
70) n-Butylbenzene	18.71	91	297355	0.928	ppbv	99
71) 2-Chlorotoluene	15.62	91	213402	0.947	ppbv	98
72) 4-Ethyltoluene	16.00	105	215905	0.918	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	213947m	0.950	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	228976	0.949	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	144462	0.968	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	137431	0.946	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	135131	0.955	ppbv	96
78) Hexachloro-1,3-Butadiene	23.55	225	91697	0.979	ppbv	98
79) Naphthalene	22.42	128	140361m	0.679	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	17110	0.247	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	89973m	0.785	ppbv	

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

