

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033962.D
 Acq On : 25 Jun 2019 8:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:16:00 AM

Quant Time: Jun 25 09:18:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	852120	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2004674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2178902m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	1713615	9.57	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1282181	9.273	ppbv 98
3) Chlorodifluoromethane	3.00	51	975945	9.729	ppbv 99
4) Chloromethane	3.16	50	554398	9.689	ppbv 99
5) Vinyl Chloride	3.28	62	574820	10.827	ppbv 100
6) Bromomethane	3.50	94	369108	10.465	ppbv 94
7) Chloroethane	3.59	64	213829	10.184	ppbv 97
8) Dichlorotetrafluoroethane	3.21	85	1516327	10.261	ppbv 98
9) Propene	3.03	41	397224	10.583	ppbv 99
10) Heptane	8.22	43	1091266	11.502	ppbv 100
11) Trichlorofluoromethane	3.99	101	1911355	10.713	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1287279	10.676	ppbv 100
13) Ethanol	3.64	45	93959	7.694	ppbv 98
14) Bromoethene	3.77	108	495271	11.023	ppbv 99
15) Acetone	3.89	43	1211344	9.747	ppbv 100
16) 1,3-Butadiene	3.35	39	506180	10.701	ppbv 100
17) tert-Butyl alcohol	4.34	59	1168606	12.029	ppbv 100
18) 1,1-Dichloroethene	4.34	96	551848	10.835	ppbv 97
19) Isopropyl Alcohol	4.01	45	788652	11.108	ppbv 99
20) Methylene Chloride	4.39	84	477926	9.861	ppbv 97
21) Allyl Chloride	4.46	41	811358	11.493	ppbv 98
22) trans-1,2-Dichloroethene	4.95	96	578420	10.774	ppbv 94
23) Vinyl Acetate	5.14	43	1615698	11.185	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1167730	10.393	ppbv 99
25) Ethyl Acetate	5.75	43	1991745	10.524	ppbv 100
26) Hexane	5.76	57	880737	10.221	ppbv 99
27) Carbon Disulfide	4.60	76	1392774	11.633	ppbv 100
28) Methyl tert-Butyl Ether	5.09	73	1601755	12.292	ppbv 100
29) Chloroform	5.83	83	1542477	10.451	ppbv 96
30) Cyclohexane	7.23	84	716905	11.774	ppbv 99
31) cis-1,2-Dichloroethene	5.62	61	877370	11.611	ppbv 95
32) 1,1,1-Trichloroethane	6.60	97	1619919	11.378	ppbv 99
34) 2-Butanone	5.31	43	1273495	11.261	ppbv 99
35) Carbon Tetrachloride	7.11	117	1717754	11.091	ppbv 98
36) Benzene	6.98	78	1744062	11.389	ppbv 98
37) 1,2-Dichloroethane	6.39	62	1171693	10.346	ppbv 99
38) Trichloroethene	7.94	130	760510	12.755	ppbv 98
39) 1,2-Dichloropropane	7.71	63	655475	11.091	ppbv 95
40) 1,4-Dioxane	7.93	88	259436	10.763	ppbv 76
41) Tetrahydrofuran	6.13	42	672879	11.722	ppbv 99
42) Bromodichloromethane	7.89	83	1654688	10.933	ppbv 98
43) Methyl Methacrylate	8.11	69	701976	12.257	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3011144	11.057	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	983079	13.082	ppbv	100
46) cis-1,3-Dichloropropene	8.81	75	1119239	13.000	ppbv	98
47) 1,1,2-Trichloroethane	9.59	97	763318	10.834	ppbv	98
48) Dibromochloromethane	10.43	129	1436284	11.343	ppbv	99
49) Bromoform	13.17	173	1322870	11.835	ppbv	100
50) 4-Methyl-2-Pentanone	8.85	43	1945367	11.536	ppbv	100
51) 2-Hexanone	10.25	43	1570138	11.923	ppbv #	100
52) Tetrachloroethene	11.34	164	700225	12.995	ppbv	92
53) Toluene	9.92	91	2092664	12.349	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1204565	11.342	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.25	131	988951	10.390	ppbv #	93
57) Chlorobenzene	12.27	112	1679579	10.292	ppbv	98
58) Ethyl Benzene	12.84	91	2920661	11.889	ppbv	99
59) m/p-Xylene	13.12	91	5020936m	22.476	ppbv	
60) o-Xylene	13.82	91	2519069	10.922	ppbv	99
61) Styrene	13.66	104	1828247	12.248	ppbv	100
62) Isopropylbenzene	14.80	105	3400017	10.937	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1789954	10.310	ppbv	99
64) n-propylbenzene	15.70	120	885725	11.126	ppbv	99
65) tert-Butylbenzene	16.88	119	3263118	11.344	ppbv	100
66) Benzyl Chloride	17.13	91	1813884	12.443	ppbv	100
67) sec-Butylbenzene	17.43	105	4445672	11.017	ppbv	100
69) p-Isopropyltoluene	17.79	119	3763158	11.208	ppbv	100
70) n-Butylbenzene	18.69	91	3857996	10.491	ppbv	100
71) 2-Chlorotoluene	15.59	91	2592864	11.322	ppbv	100
72) 4-Ethyltoluene	15.97	105	3058754	11.654	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	2919577	11.292	ppbv	98
74) 1,2,4-Trimethylbenzene	16.90	105	3153748	10.583	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	1828107	9.796	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1788006	10.435	ppbv	99
77) 1,2-Dichlorobenzene	17.96	146	1727587	10.032	ppbv	100
78) Hexachloro-1,3-Butadiene	23.52	225	1197766	8.905	ppbv	99
79) Naphthalene	22.38	128	2225497	9.343	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	805337	8.474	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.10	180	1321904	8.791	ppbv	100

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

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