

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034170.D
 Acq On : 17 Sep 2019 4:10
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:43:52 AM

Quant Time: Sep 17 06:05:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 2019
 QLast Update : Tue Sep 17 05:58:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1282794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2228263	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2427683m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	2084960	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1566143	7.697	ppbv	100
3) Chlorodifluoromethane	2.97	51	1401136	9.659	ppbv	100
4) Chloromethane	3.13	50	834469	9.339	ppbv	100
5) Vinyl Chloride	3.25	62	736257	9.037	ppbv	100
6) Bromomethane	3.47	94	360896	9.078	ppbv	100
7) Chloroethane	3.56	64	267665	9.610	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	1510208	8.895	ppbv	100
9) Propene	2.99	41	706851	8.919	ppbv	100
10) Heptane	8.18	43	1850255	8.953	ppbv	100
11) Trichlorofluoromethane	3.96	101	1587576	9.190	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1043710	9.089	ppbv	100
13) Ethanol	3.60	45	116335	7.530	ppbv	100
14) Bromoethene	3.74	108	453273	9.145	ppbv	100
15) Acetone	3.85	43	1358644	8.771	ppbv	100
16) 1,3-Butadiene	3.32	39	725428	9.290	ppbv	100
17) tert-Butyl alcohol	4.30	59	1030737	9.232	ppbv	100
18) 1,1-Dichloroethene	4.30	96	479109	9.184	ppbv	100
19) Isopropyl Alcohol	3.97	45	883174	8.519	ppbv	100
20) Methylene Chloride	4.36	84	428275	8.446	ppbv	100
21) Allyl Chloride	4.43	41	962826	9.475	ppbv	100
22) trans-1,2-Dichloroethene	4.91	96	480494	9.167	ppbv	100
23) Vinyl Acetate	5.10	43	2410975	9.249	ppbv	100
24) 1,1-Dichloroethane	5.04	63	1569560	9.035	ppbv	100
25) Ethyl Acetate	5.71	43	2898196	8.567	ppbv	100
26) Hexane	5.72	57	1231375	8.194	ppbv	100
27) Carbon Disulfide	4.56	76	1300292	9.639	ppbv	100
28) Methyl tert-Butyl Ether	5.06	73	1910666	8.769	ppbv	100
29) Chloroform	5.79	83	1821173	8.980	ppbv	100
30) Cyclohexane	7.18	84	949603	8.837	ppbv	100
31) cis-1,2-Dichloroethene	5.58	61	1344392	9.330	ppbv	100
32) 1,1,1-Trichloroethane	6.56	97	1740320	9.072	ppbv	100
34) 2-Butanone	5.27	43	2085382	9.574	ppbv	100
35) Carbon Tetrachloride	7.07	117	1720678	9.773	ppbv	100
36) Benzene	6.94	78	2286388	8.987	ppbv	100
37) 1,2-Dichloroethane	6.35	62	1648959	10.228	ppbv	100
38) Trichloroethene	7.90	130	772821	8.103	ppbv	100
39) 1,2-Dichloropropane	7.67	63	1027436	9.345	ppbv	100
40) 1,4-Dioxane	7.88	88	298759	7.500	ppbv #	100
41) Tetrahydrofuran	6.09	42	1250287	9.638	ppbv	100
42) Bromodichloromethane	7.85	83	2030708	9.842	ppbv	100
43) Methyl Methacrylate	8.07	69	1006584	9.577	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	4180840	8.814	ppbv	100
45) t-1,3-Dichloropropene	9.35	75	1354310	10.903	ppbv	100
46) cis-1,3-Dichloropropene	8.77	75	1516340	10.043	ppbv	100
47) 1,1,2-Trichloroethane	9.55	97	915511	9.195	ppbv	100
48) Dibromochloromethane	10.38	129	1545275	10.261	ppbv	100
49) Bromoform	13.13	173	1293852	9.897	ppbv	100
50) 4-Methyl-2-Pentanone	8.80	43	3031935	9.143	ppbv	100
51) 2-Hexanone	10.20	43	2632111	9.204	ppbv #	100
52) Tetrachloroethene	11.30	164	715108	7.976	ppbv	100
53) Toluene	9.88	91	2543766	9.028	ppbv	100
54) 1,2-Dibromoethane	10.69	107	1386845	9.315	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.21	131	996527	9.465	ppbv	97
57) Chlorobenzene	12.23	112	1822182	8.695	ppbv	100
58) Ethyl Benzene	12.79	91	3456837	8.668	ppbv	100
59) m/p-Xylene	13.08	91	5590279m	17.180	ppbv	
60) o-Xylene	13.78	91	2779596	8.565	ppbv	100
61) Styrene	13.62	104	2137208	8.854	ppbv	100
62) Isopropylbenzene	14.76	105	3598117	8.519	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	2052112	7.745	ppbv	100
64) n-propylbenzene	15.65	120	960702	9.070	ppbv	100
65) tert-Butylbenzene	16.84	119	3068701	8.400	ppbv	100
66) Benzyl Chloride	17.09	91	1537502	11.638	ppbv	100
67) sec-Butylbenzene	17.39	105	4421866	8.405	ppbv	100
69) p-Isopropyltoluene	17.75	119	3606923	8.565	ppbv	100
70) n-Butylbenzene	18.64	91	4116655	8.555	ppbv	100
71) 2-Chlorotoluene	15.55	91	3005670	8.708	ppbv	100
72) 4-Ethyltoluene	15.93	105	3234007	8.819	ppbv	100
73) 1,3,5-Trimethylbenzene	16.09	105	3075349	8.631	ppbv	100
74) 1,2,4-Trimethylbenzene	16.86	105	3088159	8.388	ppbv	100
75) 1,3-Dichlorobenzene	17.09	146	1684845	8.635	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	1746042	8.557	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1709744	8.571	ppbv	100
78) Hexachloro-1,3-Butadiene	23.47	225	1052809	7.819	ppbv	100
79) Naphthalene	22.32	128	2839304	8.621	ppbv	100
80) Naphthalene, 2-methyl-	25.06	142	1560389	13.989	ppbv	100
81) 1,2,4-Trichlorobenzene	22.05	180	1534543	8.525	ppbv	100

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

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