

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033462.D
 Acq On : 26 Mar 2019 8:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:23:18 AM

Quant Time: Mar 27 02:22:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 27 02:22:02 2019
 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	704848	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1649417	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1913450m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1409974	9.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1047184	10.187	ppbv	98
3) Chlorodifluoromethane	3.01	51	800162	9.861	ppbv	100
4) Chloromethane	3.17	50	417348	9.719	ppbv	99
5) Vinyl Chloride	3.29	62	424586	10.064	ppbv	97
6) Bromomethane	3.51	94	271436	10.011	ppbv	95
7) Chloroethane	3.60	64	154099	9.814	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1079171	9.852	ppbv	99
9) Propene	3.03	41	339061	9.950	ppbv	99
10) Heptane	8.25	43	890141	10.414	ppbv	100
11) Trichlorofluoromethane	4.00	101	1226423	9.680	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	827406	9.723	ppbv	100
13) Ethanol	3.65	45	102200	11.589	ppbv	65
14) Bromoethene	3.79	108	347327	10.234	ppbv	98
15) Acetone	3.90	43	764646	9.022	ppbv	99
16) 1,3-Butadiene	3.36	39	376403	11.197	ppbv	95
17) tert-Butyl alcohol	4.35	59	157861	10.130	ppbv	98
18) 1,1-Dichloroethene	4.35	96	366676	10.032	ppbv	99
19) Isopropyl Alcohol	4.02	45	603950	11.267	ppbv #	98
20) Methylene Chloride	4.41	84	318986	8.867	ppbv	95
21) Allyl Chloride	4.48	41	543832	10.151	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	369871	9.699	ppbv	93
23) Vinyl Acetate	5.15	43	1228111	10.181	ppbv	100
24) 1,1-Dichloroethane	5.09	63	867197	9.464	ppbv	100
25) Ethyl Acetate	5.77	43	1504289	9.567	ppbv	100
26) Hexane	5.78	57	672780	9.623	ppbv	98
27) Carbon Disulfide	4.62	76	897157	10.791	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	974564	9.678	ppbv	100
29) Chloroform	5.85	83	1153223	9.622	ppbv	98
30) Cyclohexane	7.25	84	564312	10.203	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	691545	9.949	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1113911	9.760	ppbv	98
34) 2-Butanone	5.33	43	981056	9.900	ppbv	99
35) Carbon Tetrachloride	7.13	117	1209952	10.357	ppbv	99
36) Benzene	7.00	78	1387982	10.029	ppbv	99
37) 1,2-Dichloroethane	6.41	62	893350	9.630	ppbv	100
38) Trichloroethene	7.96	130	554583	10.648	ppbv	94
39) 1,2-Dichloropropane	7.73	63	524010	9.666	ppbv	97
40) 1,4-Dioxane	7.95	88	209677	10.844	ppbv	86
41) Tetrahydrofuran	6.15	42	563157	10.332	ppbv	98
42) Bromodichloromethane	7.92	83	1260605	9.977	ppbv	97
43) Methyl Methacrylate	8.14	69	573437	10.204	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2373560	9.814	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1200533	17.400	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	874775	10.857	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	911497	14.806	ppbv	97
48) Dibromochloromethane	10.45	129	1137769	10.957	ppbv	100
49) Bromoform	13.20	173	1052678	10.612	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1468420	10.120	ppbv	100
51) 2-Hexanone	10.27	43	1205255	11.135	ppbv #	100
52) Tetrachloroethene	11.37	164	564784	10.816	ppbv	94
53) Toluene	9.95	91	1748826	10.874	ppbv	100
54) 1,2-Dibromoethane	10.76	107	991372	10.296	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	819082	9.340	ppbv	100
57) Chlorobenzene	12.30	112	1381698	9.300	ppbv	98
58) Ethyl Benzene	12.87	91	2537142	9.929	ppbv	98
59) m/p-Xylene	13.12	91	4297865m	18.831	ppbv	
60) o-Xylene	13.85	91	2130696	9.654	ppbv	100
61) Styrene	13.69	104	1584312	10.459	ppbv	100
62) Isopropylbenzene	14.83	105	2968651	9.498	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1486751	9.149	ppbv	100
64) n-propylbenzene	15.72	120	753100	9.496	ppbv	100
65) tert-Butylbenzene	16.91	119	2678723	9.726	ppbv	100
66) Benzyl Chloride	17.16	91	1447851	11.306	ppbv	100
67) sec-Butylbenzene	17.46	105	3800186	9.702	ppbv	100
69) p-Isopropyltoluene	17.82	119	3174608	9.955	ppbv	99
70) n-Butylbenzene	18.72	91	3366627	9.964	ppbv	99
71) 2-Chlorotoluene	15.62	91	2287376	9.625	ppbv	100
72) 4-Ethyltoluene	16.00	105	2461926	9.924	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2371512	9.989	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2472870	9.718	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1464767	9.313	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1457367	9.510	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1432266	9.598	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1053678	10.667	ppbv	99
79) Naphthalene	22.42	128	2443987	11.220	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1153193	15.775	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1226469	10.150	ppbv	99

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

