

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033432.D
 Acq On : 22 Mar 2019 14:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:15 AM

Quant Time: Mar 23 03:32:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	836809	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2032092	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2150037	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1625984	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	900753	6.121	ppbv	97
3) Chlorodifluoromethane	3.02	51	924566	9.626	ppbv	98
4) Chloromethane	3.17	50	497049	9.557	ppbv	99
5) Vinyl Chloride	3.29	62	495664	9.238	ppbv	98
6) Bromomethane	3.52	94	315349	9.888	ppbv	96
7) Chloroethane	3.60	64	200954	10.719	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1220925	9.746	ppbv	100
9) Propene	3.04	41	391769	9.137	ppbv	99
10) Heptane	8.25	43	1245754	11.714	ppbv	100
11) Trichlorofluoromethane	4.01	101	1694560	11.564	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1100149	11.316	ppbv	99
13) Ethanol	3.65	45	95095	4.652	ppbv	97
14) Bromoethene	3.79	108	454863	11.225	ppbv	99
15) Acetone	3.90	43	1051044	8.080	ppbv	99
16) 1,3-Butadiene	3.36	39	401343	9.499	ppbv	98
17) tert-Butyl alcohol	4.36	59	209834	11.463	ppbv	100
18) 1,1-Dichloroethene	4.35	96	488279	10.984	ppbv	99
19) Isopropyl Alcohol	4.03	45	693438	11.207	ppbv	100
20) Methylene Chloride	4.41	84	416577	9.819	ppbv	98
21) Allyl Chloride	4.48	41	740249	11.731	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	502459	11.663	ppbv	98
23) Vinyl Acetate	5.16	43	1657965	11.016	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1179193	10.848	ppbv	99
25) Ethyl Acetate	5.77	43	1987981	10.513	ppbv	100
26) Hexane	5.78	57	883386	10.450	ppbv	99
27) Carbon Disulfide	4.62	76	1200528	12.336	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1385212	11.032	ppbv	100
29) Chloroform	5.85	83	1508658	10.899	ppbv	97
30) Cyclohexane	7.25	84	784243	11.571	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	913714	10.810	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1574268	11.584	ppbv	99
34) 2-Butanone	5.33	43	1306529	9.790	ppbv	98
35) Carbon Tetrachloride	7.14	117	1661749	11.599	ppbv	99
36) Benzene	7.01	78	1923178	10.575	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1221876	10.626	ppbv	99
38) Trichloroethene	7.97	130	765612	11.125	ppbv	94
39) 1,2-Dichloropropane	7.74	63	735632	10.801	ppbv	96
40) 1,4-Dioxane	7.96	88	245386	10.232	ppbv	91
41) Tetrahydrofuran	6.15	42	762634	10.708	ppbv	99
42) Bromodichloromethane	7.92	83	1741795	11.298	ppbv	98
43) Methyl Methacrylate	8.14	69	796644	11.250	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3298488	10.951	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1060440	12.130	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1198820	11.646	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	807344	10.729	ppbv	96
48) Dibromochloromethane	10.46	129	1478425	11.715	ppbv	100
49) Bromoform	13.21	173	1307009	10.918	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1964135	10.420	ppbv	100
51) 2-Hexanone	10.28	43	1554049	10.686	ppbv #	100
52) Tetrachloroethene	11.38	164	733532	9.682	ppbv	99
53) Toluene	9.96	91	2274657	11.008	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1304958	10.259	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.29	131	1035298	10.764	ppbv	96
57) Chlorobenzene	12.31	112	1713467	10.062	ppbv	99
58) Ethyl Benzene	12.87	91	3230804	10.622	ppbv	100
59) m/p-Xylene	13.16	91	5452040m	20.858	ppbv	
60) o-Xylene	13.86	91	2716044	10.651	ppbv	100
61) Styrene	13.70	104	1977485	11.076	ppbv	99
62) Isopropylbenzene	14.84	105	3765802	10.623	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1856520	10.071	ppbv	99
64) n-propylbenzene	15.73	120	956343	10.661	ppbv	99
65) tert-Butylbenzene	16.92	119	3383177	10.600	ppbv	100
66) Benzyl Chloride	17.16	91	1725841	13.085	ppbv	99
67) sec-Butylbenzene	17.47	105	4791257	10.594	ppbv	100
69) p-Isopropyltoluene	17.83	119	3969949	10.744	ppbv	99
70) n-Butylbenzene	18.72	91	4161897	10.563	ppbv	100
71) 2-Chlorotoluene	15.63	91	2895742	10.493	ppbv	99
72) 4-Ethyltoluene	16.01	105	3134741	10.825	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3001235	10.639	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3106937	10.399	ppbv	99
75) 1,3-Dichlorobenzene	17.18	146	1790548	10.168	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1772852	10.398	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1742026	10.445	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1220735	12.208	ppbv	99
79) Naphthalene	22.42	128	2798883	9.721	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1173533	8.596	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1465472	9.982	ppbv	99

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

