

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034126.D
 Acq On : 5 Sep 2019 6:26
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:48 AM

Quant Time: Sep 05 10:18:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 05 10:18:43 2019
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1100336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2162395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2402985	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1870998	9.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2404494	13.248	ppbv	95
3) Chlorodifluoromethane	2.98	51	1672094	13.633	ppbv	99
4) Chloromethane	3.14	50	1084145	14.139	ppbv	97
5) Vinyl Chloride	3.26	62	952424	13.636	ppbv	96
6) Bromomethane	3.47	94	482934	14.010	ppbv	95
7) Chloroethane	3.56	64	341198	14.338	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1865933	12.773	ppbv	99
9) Propene	3.00	41	933536	13.603	ppbv	98
10) Heptane	8.19	43	2400918	13.481	ppbv	98
11) Trichlorofluoromethane	3.96	101	1967198	13.291	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1339354	13.526	ppbv	98
13) Ethanol	3.61	45	159429	10.267	ppbv	96
14) Bromoethene	3.75	108	598551	13.981	ppbv	99
15) Acetone	3.86	43	1709408	12.890	ppbv	99
16) 1,3-Butadiene	3.33	39	946219	14.089	ppbv	100
17) tert-Butyl alcohol	4.32	59	1143093	11.874	ppbv	98
18) 1,1-Dichloroethene	4.31	96	643599	14.245	ppbv	97
19) Isopropyl Alcohol	3.98	45	1046006	11.722	ppbv	100
20) Methylene Chloride	4.36	84	575740	13.131	ppbv	98
21) Allyl Chloride	4.43	41	1261225	14.426	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	653710	14.436	ppbv	99
23) Vinyl Acetate	5.11	43	3102052	13.788	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1992106	13.341	ppbv	100
25) Ethyl Acetate	5.72	43	3613313	12.421	ppbv	99
26) Hexane	5.73	57	1589596	12.282	ppbv	96
27) Carbon Disulfide	4.57	76	1728386	14.835	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	2505849	13.215	ppbv	99
29) Chloroform	5.80	83	2334335	13.372	ppbv	96
30) Cyclohexane	7.19	84	1312817	14.031	ppbv	98
31) cis-1,2-Dichloroethene	5.59	61	1724514	13.914	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	2227209	13.584	ppbv	98
34) 2-Butanone	5.28	43	2647338	12.735	ppbv	99
35) Carbon Tetrachloride	7.08	117	2140305	12.802	ppbv	98
36) Benzene	6.95	78	3090620	12.504	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1995262	13.175	ppbv	100
38) Trichloroethene	7.90	130	1011900	11.070	ppbv	96
39) 1,2-Dichloropropane	7.68	63	1379980	13.039	ppbv	97
40) 1,4-Dioxane	7.89	88	414588	10.621	ppbv #	99
41) Tetrahydrofuran	6.09	42	1677345	13.515	ppbv	99
42) Bromodichloromethane	7.86	83	2593009	13.121	ppbv	98
43) Methyl Methacrylate	8.08	69	1386891	13.620	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	5170134	11.346	ppbv	97
45) t-1,3-Dichloropropene	9.36	75	1835425	15.357	ppbv	96
46) cis-1,3-Dichloropropene	8.78	75	2042096	14.025	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	1252989	13.016	ppbv	99
48) Dibromochloromethane	10.39	129	1988083	13.826	ppbv	98
49) Bromoform	13.14	173	1754367	13.935	ppbv	100
50) 4-Methyl-2-Pentanone	8.81	43	3787011	11.938	ppbv	98
51) 2-Hexanone	10.21	43	3375636	12.435	ppbv #	100
52) Tetrachloroethene	11.31	164	995678	11.511	ppbv	98
53) Toluene	9.89	91	3415350	12.494	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1864208	13.023	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	1270193	12.324	ppbv #	62
57) Chlorobenzene	12.25	112	2380923	11.518	ppbv	99
58) Ethyl Benzene	12.80	91	4488761	11.404	ppbv	95
59) m/p-Xylene	13.09	91	7249077m	22.608	ppbv	
60) o-Xylene	13.79	91	3564015	11.132	ppbv	99
61) Styrene	13.63	104	2923205	12.219	ppbv	99
62) Isopropylbenzene	14.77	105	4603898	11.056	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	2588223	9.883	ppbv	99
64) n-propylbenzene	15.66	120	1275313	12.047	ppbv	90
65) tert-Butylbenzene	16.85	119	3858750	10.758	ppbv	99
66) Benzyl Chloride	17.10	91	2181295	16.504	ppbv	99
67) sec-Butylbenzene	17.40	105	5483191	10.610	ppbv	99
69) p-Isopropyltoluene	17.76	119	4503758	10.911	ppbv	98
70) n-Butylbenzene	18.65	91	4982137	10.586	ppbv	98
71) 2-Chlorotoluene	15.56	91	3868777	11.369	ppbv	98
72) 4-Ethyltoluene	15.94	105	4167423	11.537	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3951006	11.254	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	3826397	10.585	ppbv	96
75) 1,3-Dichlorobenzene	17.10	146	2183501	11.407	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	2283155	11.311	ppbv	100
77) 1,2-Dichlorobenzene	17.93	146	2198315	11.232	ppbv	98
78) Hexachloro-1,3-Butadiene	23.48	225	1487057	11.145	ppbv	99
79) Naphthalene	22.33	128	3902434	11.952	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	2293167	20.214	ppbv	100
81) 1,2,4-Trichlorobenzene	22.06	180	2081754	11.708	ppbv	99

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

