

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032772.D
 Acq On : 14 Nov 2018 23:40
 Operator : SY/AP
 Sample : VL1114ABS04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS04

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:15 PM

Quant Time: Nov 15 07:23:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:23:01 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1595579	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	4048602	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4100684	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2880182	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1968547	8.583	ppbv	99
3) Chlorodifluoromethane	3.02	51	1150025	9.091	ppbv	98
4) Chloromethane	3.17	50	639945	9.123	ppbv	97
5) Vinyl Chloride	3.30	62	652632	8.781	ppbv	99
6) Bromomethane	3.52	94	419131	9.218	ppbv	96
7) Chloroethane	3.61	64	247211	9.228	ppbv	100
8) Dichlorotetrafluoroethane	3.23	85	1555777	8.608	ppbv	98
9) Propene	3.04	41	506761	10.011	ppbv	100
10) Heptane	8.26	43	1963937	10.162	ppbv	99
11) Trichlorofluoromethane	4.01	101	2580700	11.940	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1491447	8.448	ppbv	99
13) Ethanol	3.65	45	119018	7.178	ppbv	98
14) Bromoethene	3.80	108	541905	9.252	ppbv	100
15) Acetone	3.91	43	1126649	7.732	ppbv	99
16) 1,3-Butadiene	3.37	39	558106	9.890	ppbv	95
17) tert-Butyl alcohol	4.36	59	476991	10.437	ppbv	100
18) 1,1-Dichloroethene	4.36	96	822439	9.473	ppbv	95
19) Isopropyl Alcohol	4.03	45	1270749	13.091	ppbv	99
20) Methylene Chloride	4.42	84	660691	8.758	ppbv	97
21) Allyl Chloride	4.48	41	1322736	10.802	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	765794	9.033	ppbv	99
23) Vinyl Acetate	5.16	43	2680851	10.093	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1960784	9.285	ppbv	99
25) Ethyl Acetate	5.78	43	3213357	9.462	ppbv	99
26) Hexane	5.79	57	1472916	9.743	ppbv	99
27) Carbon Disulfide	4.62	76	1975496	10.305	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2445810	10.145	ppbv	99
29) Chloroform	5.86	83	2427706	9.010	ppbv	96
30) Cyclohexane	7.26	84	1339390	10.130	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1517625	9.985	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	2592218	8.777	ppbv	99
34) 2-Butanone	5.34	43	2065411	9.836	ppbv	99
35) Carbon Tetrachloride	7.14	117	2776926	8.532	ppbv	99
36) Benzene	7.01	78	3235837	10.037	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1973475	9.093	ppbv	99
38) Trichloroethene	7.97	130	1247845	9.564	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1206499	9.822	ppbv	97
40) 1,4-Dioxane	7.96	88	455502	10.382	ppbv	84
41) Tetrahydrofuran	6.16	42	1264048	10.494	ppbv	100
42) Bromodichloromethane	7.92	83	2768603	9.411	ppbv	99
43) Methyl Methacrylate	8.15	69	1304020	10.834	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5343996	9.919	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1838960	11.386	ppbv	96
46) cis-1,3-Dichloropropene	8.84	75	2110482	10.816	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1380779	9.506	ppbv	99
48) Dibromochloromethane	10.46	129	2313497	9.371	ppbv	100
49) Bromoform	13.21	173	1826993	8.961	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3279092	9.998	ppbv	99
51) 2-Hexanone	10.28	43	2321502	10.987	ppbv	100
52) Tetrachloroethene	11.38	164	1104295	9.847	ppbv	98
53) Toluene	9.95	91	3663244	10.892	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1993508	9.709	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1613519	8.436	ppbv	99
57) Chlorobenzene	12.31	112	2687173	8.560	ppbv	99
58) Ethyl Benzene	12.87	91	4818690	9.764	ppbv	100
59) m/p-Xylene	13.16	91	7863481m	17.899	ppbv	
60) o-Xylene	13.86	91	3854288	8.725	ppbv	99
61) Styrene	13.69	104	2913468	10.132	ppbv	99
62) Isopropylbenzene	14.83	105	5374777	9.002	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2573254	7.473	ppbv	100
64) n-propylbenzene	15.73	120	1361352	8.668	ppbv	99
65) tert-Butylbenzene	16.92	119	4633343	8.657	ppbv	100
66) Benzyl Chloride	17.16	91	2647642	8.947	ppbv	100
67) sec-Butylbenzene	17.47	105	6588153	8.541	ppbv	99
69) p-Isopropyltoluene	17.82	119	5444329	8.877	ppbv	99
70) n-Butylbenzene	18.72	91	5603105	8.997	ppbv	100
71) 2-Chlorotoluene	15.62	91	4030990	9.053	ppbv	100
72) 4-Ethyltoluene	16.01	105	4369482	9.024	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4129869	8.724	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	4197893	8.287	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2350978	8.091	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2332641	8.594	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	2300307	8.557	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1290496	8.895	ppbv	98
79) Naphthalene	22.42	128	4158197	12.495	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1035976	12.429	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1976955	11.830	ppbv	99

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

