

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032654.D
 Acq On : 18 Oct 2018 16:47
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:21 PM

Quant Time: Oct 18 17:17:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 17:17:17 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1681042	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4224410	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4275144	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	3119050	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	262339	1.582	ppbv	98
3) Chlorodifluoromethane	3.02	51	281111	1.999	ppbv	97
4) Chloromethane	3.18	50	158005	2.058	ppbv	97
5) Vinyl Chloride	3.30	62	156525	2.023	ppbv	100
6) Bromomethane	3.53	94	99542	2.037	ppbv	97
7) Chloroethane	3.61	64	60360	1.993	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	382487	2.018	ppbv	94
9) Propene	3.05	41	113901	2.209	ppbv	98
10) Heptane	8.26	43	453393	2.348	ppbv	100
11) Trichlorofluoromethane	4.02	101	493507	2.285	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	411468	2.602	ppbv	92
13) Ethanol	3.66	45	34471m	2.160	ppbv	
14) Bromoethene	3.80	108	129547	2.239	ppbv	100
15) Acetone	3.92	43	356765	2.385	ppbv	99
16) 1,3-Butadiene	3.37	39	122425	2.210	ppbv	85
17) tert-Butyl alcohol	4.38	59	120833	8.850	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	189340	2.655	ppbv	92
19) Isopropyl Alcohol	4.04	45	243634	2.306	ppbv	99
20) Methylene Chloride	4.42	84	175140	2.613	ppbv	93
21) Allyl Chloride	4.49	41	295082	2.628	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	174191	2.115	ppbv	86
23) Vinyl Acetate	5.17	43	596387	2.506	ppbv	100
24) 1,1-Dichloroethane	5.10	63	467572	2.119	ppbv	100
25) Ethyl Acetate	5.78	43	756995	2.139	ppbv	99
26) Hexane	5.79	57	368656	2.312	ppbv	96
27) Carbon Disulfide	4.63	76	448991	2.330	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	550929	2.750	ppbv	99
29) Chloroform	5.86	83	593226	2.123	ppbv	99
30) Cyclohexane	7.26	84	292896	2.329	ppbv	88
31) cis-1,2-Dichloroethene	5.65	61	353557	2.308	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	580213	2.081	ppbv	99
34) 2-Butanone	5.35	43	493201	2.104	ppbv	99
35) Carbon Tetrachloride	7.15	117	616107	1.882	ppbv	98
36) Benzene	7.02	78	740023	2.161	ppbv	97
37) 1,2-Dichloroethane	6.43	62	449427	1.914	ppbv	98
38) Trichloroethene	7.98	130	279757	2.173	ppbv	97
39) 1,2-Dichloropropane	7.75	63	273812	1.966	ppbv	97
40) 1,4-Dioxane	7.99	88	89878	1.868	ppbv #	87
41) Tetrahydrofuran	6.17	42	269919	2.170	ppbv	99
42) Bromodichloromethane	7.93	83	617496	1.929	ppbv	95
43) Methyl Methacrylate	8.16	69	271114	2.042	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	1277341	2.104	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	355383	2.047	ppbv	93
46) cis-1,3-Dichloropropene	8.85	75	405931	2.054	ppbv	94
47) 1,1,2-Trichloroethane	9.63	97	334224	2.008	ppbv	96
48) Dibromochloromethane	10.47	129	558477	1.975	ppbv	100
49) Bromoform	13.22	173	440726	2.063	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	729882	2.115	ppbv	99
51) 2-Hexanone	10.30	43	562876	2.074	ppbv #	97
52) Tetrachloroethene	11.39	164	269552m	2.391	ppbv	
53) Toluene	9.96	91	872262	2.234	ppbv	99
54) 1,2-Dibromoethane	10.77	107	436519	1.831	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.30	131	390623	1.990	ppbv #	1
57) Chlorobenzene	12.32	112	655150	2.015	ppbv	95
58) Ethyl Benzene	12.88	91	1096606	2.284	ppbv	98
59) m/p-Xylene	13.14	91	1926416m	4.495	ppbv	
60) o-Xylene	13.87	91	934753	2.189	ppbv	98
61) Styrene	13.70	104	640636	2.475	ppbv	98
62) Isopropylbenzene	14.84	105	1294660	2.128	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.85	83	676676	1.795	ppbv	98
64) n-propylbenzene	15.74	120	323538	2.099	ppbv	97
65) tert-Butylbenzene	16.92	119	1141211	2.211	ppbv	99
66) Benzyl Chloride	17.17	91	567982	1.951	ppbv	99
67) sec-Butylbenzene	17.47	105	1613953	2.077	ppbv	99
69) p-Isopropyltoluene	17.83	119	1304454	2.218	ppbv	99
70) n-Butylbenzene	18.73	91	1367463	2.111	ppbv	98
71) 2-Chlorotoluene	15.63	91	935883	2.081	ppbv	98
72) 4-Ethyltoluene	16.02	105	1012711	2.194	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	953592	2.077	ppbv	96
74) 1,2,4-Trimethylbenzene	16.94	105	1034614	2.047	ppbv #	91
75) 1,3-Dichlorobenzene	17.18	146	586162	1.995	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	543071	2.028	ppbv	98
77) 1,2-Dichlorobenzene	18.00	146	560733	1.985	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	278117	1.759	ppbv	98
79) Naphthalene	22.43	128	682088	1.984	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	121359	1.818	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	337550m	1.978	ppbv	

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

