

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032633.D
 Acq On : 17 Oct 2018 6:37
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:36:30 PM

Quant Time: Oct 17 07:38:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 05:31:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1162097	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.32	114	2754667	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3190992	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	2171787	8.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	1295298	8.83	ppbv	99
3) Chlorodifluoromethane	3.03	51	1340970	13.83	ppbv	98
4) Chloromethane	3.18	50	751398	14.07	ppbv	97
5) Vinyl Chloride	3.31	62	774775	14.50	ppbv	99
6) Bromomethane	3.53	94	505418	15.04	ppbv	91
7) Chloroethane	3.62	64	310826	14.81	ppbv	97
8) Dichlorotetrafluoroethane	3.24	85	1783140	13.60	ppbv	99
9) Propene	3.05	41	534309	14.76	ppbv	99
10) Heptane	8.27	43	2318150	17.59	ppbv	97
11) Trichlorofluoromethane	4.02	101	2074242	14.50	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1560711	14.66	ppbv	100
13) Ethanol	3.67	45	136973	13.52	ppbv	98
14) Bromoethene	3.80	108	629248	15.83	ppbv	100
15) Acetone	3.92	43	1472716	14.45	ppbv	99
16) 1,3-Butadiene	3.38	39	595974	14.63	ppbv	96
17) tert-Butyl alcohol	4.37	59	143482	17.21	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	768664	16.20	ppbv	98
19) Isopropyl Alcohol	4.04	45	1031113	15.59	ppbv	100
20) Methylene Chloride	4.43	84	636538	13.61	ppbv	92
21) Allyl Chloride	4.50	41	1244035	16.03	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	878738	15.93	ppbv	95
23) Vinyl Acetate	5.17	43	2858733	17.80	ppbv	98
24) 1,1-Dichloroethane	5.11	63	2288000	16.11	ppbv	100
25) Ethyl Acetate	5.79	43	3651861	15.41	ppbv	99
26) Hexane	5.80	57	1680388	15.52	ppbv	98
27) Carbon Disulfide	4.64	76	2011416	15.53	ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2315190	18.10	ppbv	99
29) Chloroform	5.87	83	2738795	14.80	ppbv	98
30) Cyclohexane	7.27	84	1520261	17.87	ppbv	98
31) cis-1,2-Dichloroethene	5.66	61	1836473	17.88	ppbv	98
32) 1,1,1-Trichloroethane	6.64	97	2856315	15.96	ppbv	99
34) 2-Butanone	5.35	43	2326824	16.38	ppbv	99
35) Carbon Tetrachloride	7.16	117	3011635	15.22	ppbv	99
36) Benzene	7.03	78	3616935	16.60	ppbv	99
37) 1,2-Dichloroethane	6.43	62	2320405	15.99	ppbv	100
38) Trichloroethene	7.98	130	1374162	17.13	ppbv	98
39) 1,2-Dichloropropane	7.76	63	1424987	15.98	ppbv	100
40) 1,4-Dioxane	7.98	88	438523	14.93	ppbv #	87
41) Tetrahydrofuran	6.17	42	1411402	17.81	ppbv	98
42) Bromodichloromethane	7.94	83	3180612	15.65	ppbv	98
43) Methyl Methacrylate	8.16	69	1562803	18.46	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	6288577	16.21	ppbv	99
45) t-1,3-Dichloropropene	9.44	75	2228272	20.90	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	2418752	19.91	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1671630	15.81	ppbv	99
48) Dibromochloromethane	10.48	129	2940519	16.71	ppbv	99
49) Bromoform	13.23	173	2230505	16.62	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	3814769	17.48	ppbv	100
51) 2-Hexanone	10.30	43	3349001	19.62	ppbv	99
52) Tetrachloroethene	11.40	164	1214764	17.32	ppbv	99
53) Toluene	9.97	91	4657051	18.73	ppbv	100
54) 1,2-Dibromoethane	10.79	107	2589992	17.47	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1917471	13.29	ppbv	99
57) Chlorobenzene	12.33	112	3243323	13.41	ppbv	99
58) Ethyl Benzene	12.89	91	5842931	16.64	ppbv	99
59) m/p-Xylene	13.18	91	9696067m	30.44	ppbv	
60) o-Xylene	13.88	91	4751845	15.12	ppbv	100
61) Styrene	13.71	104	3450031	17.88	ppbv	99
62) Isopropylbenzene	14.85	105	6706470	14.98	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.87	83	3564327	13.03	ppbv	100
64) n-propylbenzene	15.75	120	1746571	15.47	ppbv	96
65) tert-Butylbenzene	16.93	119	5634097	14.86	ppbv	100
66) Benzyl Chloride	17.18	91	3478475	16.64	ppbv	99
67) sec-Butylbenzene	17.48	105	8299133	14.67	ppbv	99
69) p-Isopropyltoluene	17.84	119	6652523	15.33	ppbv	100
70) n-Butylbenzene	18.74	91	7236481	15.30	ppbv	99
71) 2-Chlorotoluene	15.64	91	5271127	16.01	ppbv	100
72) 4-Ethyltoluene	16.03	105	5519805	16.27	ppbv	100
73) 1,3,5-Trimethylbenzene	16.18	105	5251320	15.56	ppbv	98
74) 1,2,4-Trimethylbenzene	16.96	105	5230402	14.05	ppbv	97
75) 1,3-Dichlorobenzene	17.19	146	2888938	13.35	ppbv	100
76) 1,4-Dichlorobenzene	17.33	146	2883110	14.77	ppbv	100
77) 1,2-Dichlorobenzene	18.01	146	2897207	14.26	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	1252041	12.71	ppbv	100
79) Naphthalene	22.44	128	4505134	17.95	ppbv	99
80) Naphthalene,2-methyl-	25.13	142	1273246	26.07	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	2121072	17.08	ppbv	99

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

