

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032288.D
 Acq On : 19 Jul 2018 9:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:35 PM

Quant Time: Jul 20 01:53:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1629487	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3607234	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4263504m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3306548	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1939561m	7.00	ppbv	
3) Chlorodifluoromethane	3.06	51	1814535	9.92	ppbv	98
4) Chloromethane	3.22	50	1115238	10.36	ppbv	98
5) Vinyl Chloride	3.34	62	1017773	9.97	ppbv	98
6) Bromomethane	3.57	94	561612	10.09	ppbv	99
7) Chloroethane	3.66	64	363174	10.03	ppbv	99
8) Dichlorotetrafluoroethane	3.27	85	2126981	9.41	ppbv	100
9) Propene	3.09	41	889470	11.13	ppbv	99
10) Heptane	8.33	43	2720828	10.71	ppbv	98
11) Trichlorofluoromethane	4.06	101	2023936	9.34	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1324797	9.59	ppbv	98
13) Ethanol	3.71	45	223366	9.78	ppbv	100
14) Bromoethene	3.85	108	628395	10.09	ppbv	99
15) Acetone	3.96	43	1589827	9.32	ppbv	99
16) 1,3-Butadiene	3.41	39	887450	10.22	ppbv	99
17) tert-Butyl alcohol	4.42	59	564404	10.49	ppbv	100
18) 1,1-Dichloroethene	4.42	96	644178	9.98	ppbv	99
19) Isopropyl Alcohol	4.08	45	1244994	10.79	ppbv	100
20) Methylene Chloride	4.47	84	568485	8.66	ppbv	98
21) Allyl Chloride	4.54	41	1169014	10.41	ppbv	99
22) trans-1,2-Dichloroethene	5.03	96	675692	10.09	ppbv	99
23) Vinyl Acetate	5.22	43	3321762	10.86	ppbv	99
24) 1,1-Dichloroethane	5.16	63	2200501	9.92	ppbv	99
25) Ethyl Acetate	5.84	43	3743724	10.08	ppbv	100
26) Hexane	5.86	57	1705419	10.00	ppbv	100
27) Carbon Disulfide	4.69	76	1660662	10.99	ppbv	100
28) Methyl tert-Butyl Ether	5.18	73	2580763	10.20	ppbv	100
29) Chloroform	5.93	83	2451992	9.75	ppbv	99
30) Cyclohexane	7.33	84	1480982	10.35	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1728353	10.57	ppbv	99
32) 1,1,1-Trichloroethane	6.70	97	2441448	9.59	ppbv	98
34) 2-Butanone	5.40	43	2649494	10.70	ppbv	99
35) Carbon Tetrachloride	7.22	117	2351164	9.48	ppbv	100
36) Benzene	7.09	78	3524991	9.93	ppbv	99
37) 1,2-Dichloroethane	6.49	62	2044471	9.75	ppbv	100
38) Trichloroethene	8.05	130	1168279	9.95	ppbv	99
39) 1,2-Dichloropropane	7.82	63	1431162	10.18	ppbv	98
40) 1,4-Dioxane	8.04	88	480099	11.56	ppbv #	23
41) Tetrahydrofuran	6.22	42	1599753	11.08	ppbv	98
42) Bromodichloromethane	8.00	83	2659268	10.07	ppbv	98
43) Methyl Methacrylate	8.22	69	1618364	11.12	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6235393	10.08	ppbv	99
45) t-1,3-Dichloropropene	9.50	75	1922067	11.21	ppbv	98
46) cis-1,3-Dichloropropene	8.92	75	2639226	12.07	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1422474	9.36	ppbv	97
48) Dibromochloromethane	10.54	129	2167430	9.78	ppbv	100
49) Bromoform	13.30	173	2075950	10.74	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4655968	11.43	ppbv	99
51) 2-Hexanone	10.36	43	3250606	10.47	ppbv #	99
52) Tetrachloroethene	11.47	164	1238201	10.21	ppbv	96
53) Toluene	10.04	91	4670265	10.85	ppbv	100
54) 1,2-Dibromoethane	10.85	107	2364536	10.55	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.37	131	1838155	9.68	ppbv	98
57) Chlorobenzene	12.40	112	3386784	9.68	ppbv	99
58) Ethyl Benzene	12.95	91	6283035	10.46	ppbv	100
59) m/p-Xylene	13.24	91	10175736m	19.85	ppbv	
60) o-Xylene	13.94	91	4903514	9.61	ppbv	99
61) Styrene	13.77	104	3971778	10.48	ppbv	99
62) Isopropylbenzene	14.92	105	6962966	9.52	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.93	83	3610195	8.30	ppbv	100
64) n-propylbenzene	15.81	120	1796866	9.56	ppbv	97
65) tert-Butylbenzene	17.00	119	5635433	9.04	ppbv	100
66) Benzyl Chloride	17.25	91	3696799	10.53	ppbv	99
67) sec-Butylbenzene	17.55	105	8498933	9.14	ppbv	100
69) p-Isopropyltoluene	17.91	119	6755806	9.40	ppbv	99
70) n-Butylbenzene	18.80	91	7485659	9.34	ppbv	100
71) 2-Chlorotoluene	15.71	91	5544593	9.45	ppbv	99
72) 4-Ethyltoluene	16.09	105	5793881	9.83	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	5485243	9.51	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	5404877	8.96	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	2955822	8.81	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	3024181	9.09	ppbv	100
77) 1,2-Dichlorobenzene	18.08	146	2920180	9.01	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	1781354	16.95	ppbv	100
79) Naphthalene	22.52	128	5155182	10.17	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	2345867	10.89	ppbv	99
81) 1,2,4-Trichlorobenzene	22.24	180	2420634	9.79	ppbv	100

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

