

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032355.D
 Acq On : 15 Aug 2018 15:15
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081518

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:52:34 PM

Quant Time: Aug 16 05:50:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2207867	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4751499	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4765696	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3386182	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	2282591	13.00	ppbv	99
3) Chlorodifluoromethane	3.05	51	1928963	9.43	ppbv	100
4) Chloromethane	3.21	50	1174043	9.65	ppbv	96
5) Vinyl Chloride	3.33	62	1129223	9.73	ppbv	99
6) Bromomethane	3.56	94	612720	9.85	ppbv	98
7) Chloroethane	3.64	64	398922	9.80	ppbv	100
8) Dichlorotetrafluoroethane	3.26	85	2281771	9.15	ppbv	100
9) Propene	3.07	41	901077	10.29	ppbv	99
10) Heptane	8.31	43	2879087	10.92	ppbv	99
11) Trichlorofluoromethane	4.05	101	2314831	9.37	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1557841	9.37	ppbv	97
13) Ethanol	3.69	45	242766	10.80	ppbv	97
14) Bromoethene	3.83	108	713091	9.92	ppbv	99
15) Acetone	3.95	43	1827064	8.71	ppbv	100
16) 1,3-Butadiene	3.40	39	974835	11.26	ppbv	85
17) tert-Butyl alcohol	4.41	59	347595m	9.88	ppbv	
18) 1,1-Dichloroethene	4.40	96	755949	9.76	ppbv	98
19) Isopropyl Alcohol	4.07	45	1443006	10.22	ppbv	99
20) Methylene Chloride	4.46	84	670868	8.47	ppbv	94
21) Allyl Chloride	4.53	41	1348129	10.18	ppbv	99
22) trans-1,2-Dichloroethene	5.02	96	724459	9.27	ppbv	99
23) Vinyl Acetate	5.21	43	3486076	9.62	ppbv	98
24) 1,1-Dichloroethane	5.14	63	2420879	9.26	ppbv	100
25) Ethyl Acetate	5.83	43	4330365	9.63	ppbv	99
26) Hexane	5.84	57	1987143	9.92	ppbv	100
27) Carbon Disulfide	4.67	76	1913363	10.23	ppbv	99
28) Methyl tert-Butyl Ether	5.17	73	2641209	9.93	ppbv	100
29) Chloroform	5.91	83	2842296	9.68	ppbv	100
30) Cyclohexane	7.31	84	1686668	11.05	ppbv	99
31) cis-1,2-Dichloroethene	5.70	61	2065932	10.54	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	2764637	9.67	ppbv	99
34) 2-Butanone	5.38	43	3144237	9.72	ppbv	99
35) Carbon Tetrachloride	7.20	117	2738895	9.78	ppbv	97
36) Benzene	7.07	78	3907351	9.70	ppbv	99
37) 1,2-Dichloroethane	6.48	62	2275375	9.31	ppbv	99
38) Trichloroethene	8.03	130	1367108	9.68	ppbv	98
39) 1,2-Dichloropropane	7.80	63	1645091	9.78	ppbv	96
40) 1,4-Dioxane	8.02	88	556327	10.88	ppbv	96
41) Tetrahydrofuran	6.21	42	1856308	10.69	ppbv	99
42) Bromodichloromethane	7.98	83	3121100	9.75	ppbv	99
43) Methyl Methacrylate	8.20	69	1694001	10.55	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	7182539	9.89	ppbv	99
45) t-1,3-Dichloropropene	9.49	75	2269991	11.18	ppbv	99
46) cis-1,3-Dichloropropene	8.90	75	2714486	11.15	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	1709852	9.23	ppbv	98
48) Dibromochloromethane	10.52	129	2442247	9.86	ppbv	100
49) Bromoform	13.28	173	1981725	9.64	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	4670342	10.00	ppbv	100
51) 2-Hexanone	10.34	43	3523176	10.74	ppbv #	99
52) Tetrachloroethene	11.45	164	1154497	9.72	ppbv	97
53) Toluene	10.02	91	4369770	9.90	ppbv	99
54) 1,2-Dibromoethane	10.83	107	2285731	9.61	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	1752256	8.89	ppbv	99
57) Chlorobenzene	12.38	112	3175097	8.85	ppbv	98
58) Ethyl Benzene	12.94	91	5783001	10.09	ppbv	100
59) m/p-Xylene	13.22	91	9308223m	19.11	ppbv	
60) o-Xylene	13.92	91	4535233	9.47	ppbv	100
61) Styrene	13.76	104	3548550	10.61	ppbv	99
62) Isopropylbenzene	14.90	105	6406800	9.40	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.91	83	3440819	8.55	ppbv	100
64) n-propylbenzene	15.79	120	1697077	9.62	ppbv	99
65) tert-Butylbenzene	16.98	119	5323046	9.14	ppbv	100
66) Benzyl Chloride	17.23	91	3440944	9.98	ppbv	99
67) sec-Butylbenzene	17.53	105	7996933	9.24	ppbv	99
69) p-Isopropyltoluene	17.88	119	6298101	9.51	ppbv	100
70) n-Butylbenzene	18.78	91	6978964	9.61	ppbv	100
71) 2-Chlorotoluene	15.69	91	5147455	9.76	ppbv	100
72) 4-Ethyltoluene	16.07	105	5429999	10.17	ppbv	100
73) 1,3,5-Trimethylbenzene	16.23	105	5148405	10.02	ppbv	98
74) 1,2,4-Trimethylbenzene	17.00	105	5041976	9.23	ppbv	97
75) 1,3-Dichlorobenzene	17.24	146	2824354	8.60	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2887950	9.28	ppbv	99
77) 1,2-Dichlorobenzene	18.06	146	2790429	8.89	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1696393	16.11	ppbv	100
79) Naphthalene	22.49	128	4641248	9.11	ppbv	98
80) Naphthalene, 2-methyl-	25.17	142	1799950	16.51	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	2221267	10.51	ppbv	99

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

