

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033811.D
 Acq On : 28 May 2019 19:13
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:40:36 PM

Quant Time: May 29 08:52:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	904757	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2310899	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2360203m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1810936	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1573642	8.253	ppbv	100
3) Chlorodifluoromethane	3.01	51	988272	9.536	ppbv	99
4) Chloromethane	3.17	50	594241	10.025	ppbv	98
5) Vinyl Chloride	3.29	62	592169	9.807	ppbv	99
6) Bromomethane	3.51	94	369779	10.037	ppbv	99
7) Chloroethane	3.60	64	216979	10.111	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1482201	9.642	ppbv	98
9) Propene	3.03	41	469028	10.640	ppbv	99
10) Heptane	8.24	43	1222060	9.790	ppbv	100
11) Trichlorofluoromethane	4.00	101	1634740	8.983	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1144888	9.009	ppbv	98
13) Ethanol	3.65	45	76796	5.390	ppbv	99
14) Bromoethene	3.78	108	488698	10.460	ppbv	98
15) Acetone	3.90	43	1037162	8.262	ppbv	98
16) 1,3-Butadiene	3.36	39	518258	10.367	ppbv	99
17) tert-Butyl alcohol	4.35	59	905964	8.925	ppbv	100
18) 1,1-Dichloroethene	4.35	96	505400	9.422	ppbv	98
19) Isopropyl Alcohol	4.02	45	614599	7.593	ppbv	99
20) Methylene Chloride	4.40	84	427745	8.850	ppbv	97
21) Allyl Chloride	4.47	41	727066	9.286	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	509694	9.271	ppbv	96
23) Vinyl Acetate	5.15	43	1734669	10.481	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1199053	9.530	ppbv	99
25) Ethyl Acetate	5.76	43	2136831	9.690	ppbv	99
26) Hexane	5.78	57	958202	10.108	ppbv	98
27) Carbon Disulfide	4.62	76	1247921	9.595	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1626380	10.524	ppbv	100
29) Chloroform	5.85	83	1595844	9.139	ppbv	98
30) Cyclohexane	7.24	84	843550	10.584	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	969534	10.315	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	1610363	9.236	ppbv	99
34) 2-Butanone	5.33	43	1392371	9.721	ppbv	99
35) Carbon Tetrachloride	7.13	117	1690883	9.134	ppbv	98
36) Benzene	7.00	78	1963808	9.342	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1173771	8.656	ppbv	99
38) Trichloroethene	7.96	130	870592	11.161	ppbv	98
39) 1,2-Dichloropropane	7.73	63	800095	10.209	ppbv	96
40) 1,4-Dioxane	7.95	88	286553	8.740	ppbv	# 99
41) Tetrahydrofuran	6.14	42	780057	9.720	ppbv	98
42) Bromodichloromethane	7.91	83	1855935	9.997	ppbv	97
43) Methyl Methacrylate	8.13	69	814945	10.534	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3519778	9.907	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1050164	10.708	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1199169	10.442	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	844803	9.489	ppbv	98
48) Dibromochloromethane	10.45	129	1468700	9.520	ppbv	99
49) Bromoform	13.20	173	1450167	11.172	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2087434	9.474	ppbv	99
51) 2-Hexanone	10.26	43	1706474	9.924	ppbv	99
52) Tetrachloroethene	11.37	164	763022	10.326	ppbv	98
53) Toluene	9.94	91	2334744	10.297	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1306555	9.616	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1006922	9.220	ppbv	96
57) Chlorobenzene	12.30	112	1787047	9.198	ppbv	98
58) Ethyl Benzene	12.86	91	3271846	10.468	ppbv	100
59) m/p-Xylene	13.15	91	5684312m	20.805	ppbv	
60) o-Xylene	13.85	91	2718089	9.869	ppbv	99
61) Styrene	13.68	104	2084897	11.243	ppbv	99
62) Isopropylbenzene	14.82	105	3619852	9.759	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1901277	9.493	ppbv	99
64) n-propylbenzene	15.72	120	964523	10.053	ppbv	97
65) tert-Butylbenzene	16.90	119	3368257	9.946	ppbv	99
66) Benzyl Chloride	17.15	91	1720390	10.666	ppbv	100
67) sec-Butylbenzene	17.45	105	4679971	9.874	ppbv	100
69) p-Isopropyltoluene	17.81	119	3924044	10.016	ppbv	100
70) n-Butylbenzene	18.71	91	4216523	10.036	ppbv	100
71) 2-Chlorotoluene	15.61	91	2746552	9.981	ppbv	99
72) 4-Ethyltoluene	15.99	105	3222155	10.232	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3056792	9.949	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3203687	9.581	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	1879531	9.173	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1877433	9.640	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1811073	9.406	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1032230	7.091	ppbv	99
79) Naphthalene	22.41	128	2594551	8.354	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	947258	8.027	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1489924	8.192	ppbv	100

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

