

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033200.D
 Acq On : 14 Feb 2019 14:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/21/2019 1:00:44 PM

Quant Time: Feb 20 08:19:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 08:19:41 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	908025	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2095705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2248676	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1735686	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1227394	7.070	ppbv	96
3) Chlorodifluoromethane	3.01	51	1176340	10.759	ppbv	97
4) Chloromethane	3.17	50	625238	10.830	ppbv	94
5) Vinyl Chloride	3.29	62	606162	10.056	ppbv	99
6) Bromomethane	3.51	94	358877	10.832	ppbv	95
7) Chloroethane	3.60	64	215315	10.926	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1386616	10.213	ppbv	98
9) Propene	3.03	41	540384	10.231	ppbv	99
10) Heptane	8.25	43	1332676	8.340	ppbv	99
11) Trichlorofluoromethane	4.00	101	1514223	10.774	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	985698	10.120	ppbv	100
13) Ethanol	3.64	45	128734	7.172	ppbv	99
14) Bromoethene	3.78	108	440361	10.485	ppbv	97
15) Acetone	3.89	43	1016773	9.939	ppbv	100
16) 1,3-Butadiene	3.36	39	484426	9.976	ppbv	92
17) tert-Butyl alcohol	4.35	59	228163	11.611	ppbv	96
18) 1,1-Dichloroethene	4.35	96	463318	10.626	ppbv	92
19) Isopropyl Alcohol	4.02	45	793255	11.433	ppbv	100
20) Methylene Chloride	4.40	84	393934	9.681	ppbv	98
21) Allyl Chloride	4.47	41	718893	10.643	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	456477	10.780	ppbv	98
23) Vinyl Acetate	5.15	43	1891032	10.666	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1282505	10.227	ppbv	98
25) Ethyl Acetate	5.76	43	2177201	9.465	ppbv	100
26) Hexane	5.78	57	993652	9.202	ppbv	99
27) Carbon Disulfide	4.62	76	1089948	11.018	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1513959	10.260	ppbv	100
29) Chloroform	5.85	83	1583346m	9.568	ppbv	
30) Cyclohexane	7.24	84	850792	8.492	ppbv	95
31) cis-1,2-Dichloroethene	5.64	61	1055668	9.768	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1540087	8.452	ppbv	97
34) 2-Butanone	5.32	43	1498308	11.271	ppbv	99
35) Carbon Tetrachloride	7.13	117	1576130	9.848	ppbv	90
36) Benzene	7.00	78	2047020	9.638	ppbv	# 95
37) 1,2-Dichloroethane	6.41	62	1268057	10.773	ppbv	100
38) Trichloroethene	7.96	130	763676	8.414	ppbv	95
39) 1,2-Dichloropropane	7.73	63	794916	9.477	ppbv	95
40) 1,4-Dioxane	7.95	88	300268	10.082	ppbv	87
41) Tetrahydrofuran	6.14	42	849073	10.332	ppbv	97
42) Bromodichloromethane	7.92	83	1782801	10.452	ppbv	99
43) Methyl Methacrylate	8.14	69	866422	10.161	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3488002	9.691	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1153981	12.221	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	1307511	10.836	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	852986	9.806	ppbv	95
48) Dibromochloromethane	10.45	129	1525234	11.130	ppbv	95
49) Bromoform	13.21	173	1282947	10.880	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2162048	10.143	ppbv	98
51) 2-Hexanone	10.26	43	1722875m	10.251	ppbv	
52) Tetrachloroethene	11.37	164	740396	9.073	ppbv	97
53) Toluene	9.95	91	2421297	9.627	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1395089	10.220	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	1001652	9.564	ppbv	98
57) Chlorobenzene	12.30	112	1713989	8.614	ppbv	99
58) Ethyl Benzene	12.86	91	3319280	8.993	ppbv	98
59) m/p-Xylene	13.15	91	5519780m	17.978	ppbv	
60) o-Xylene	13.85	91	2634077	8.798	ppbv	99
61) Styrene	13.69	104	2016982	8.924	ppbv	99
62) Isopropylbenzene	14.83	105	3738530	8.850	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1834807	7.850	ppbv	99
64) n-propylbenzene	15.72	120	950958	8.855	ppbv	97
65) tert-Butylbenzene	16.91	119	3237665	8.802	ppbv	98
66) Benzyl Chloride	17.16	91	1637750	12.459	ppbv	99
67) sec-Butylbenzene	17.46	105	4720618	8.841	ppbv	99
69) p-Isopropyltoluene	17.82	119	3862461	8.686	ppbv	99
70) n-Butylbenzene	18.71	91	4144817	8.639	ppbv	100
71) 2-Chlorotoluene	15.62	91	2922047	8.805	ppbv	100
72) 4-Ethyltoluene	16.00	105	3111395	9.011	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2980832	9.026	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2990646	8.731	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1726349	8.739	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1748917	8.935	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1731794	8.871	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1233553	12.708	ppbv	100
79) Naphthalene	22.42	128	3016264	8.194	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	1260216	6.769	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1504246	8.045	ppbv	100

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

