

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033329.D
 Acq On : 15 Mar 2019 12:21
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:21 AM

Quant Time: Mar 15 13:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	867928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1984645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2052935	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1588392	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	87221	0.555	ppbv	97
3) Chlorodifluoromethane	3.02	51	51944	0.523	ppbv	97
4) Chloromethane	3.17	50	28788	0.533	ppbv	94
5) Vinyl Chloride	3.29	62	26278	0.480	ppbv	99
6) Bromomethane	3.51	94	17238m	0.519	ppbv	
7) Chloroethane	3.60	64	10252	0.522	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	66715	0.498	ppbv	99
9) Propene	3.04	41	23241	0.522	ppbv	98
10) Heptane	8.25	43	52301	0.465	ppbv	100
11) Trichlorofluoromethane	4.01	101	82441	0.552	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.55	101	52967	0.542	ppbv	100
13) Ethanol	3.66	45	16299m	1.052	ppbv	
14) Bromoethene	3.79	108	22443	0.543	ppbv	89
15) Acetone	3.91	43	82580	0.621	ppbv	98
16) 1,3-Butadiene	3.37	39	21813m	0.468	ppbv	
17) tert-Butyl alcohol	4.38	59	11977m	0.632	ppbv	
18) 1,1-Dichloroethene	4.36	96	24609m	0.568	ppbv	
19) Isopropyl Alcohol	4.03	45	42838m	0.643	ppbv	
20) Methylene Chloride	4.41	84	26564m	0.624	ppbv	
21) Allyl Chloride	4.48	41	31714	0.482	ppbv	92
22) trans-1,2-Dichloroethene	4.97	96	22763	0.529	ppbv	86
23) Vinyl Acetate	5.16	43	74100	0.477	ppbv #	94
24) 1,1-Dichloroethane	5.09	63	59339	0.537	ppbv	98
25) Ethyl Acetate	5.78	43	101381	0.527	ppbv	99
26) Hexane	5.78	57	45460m	0.517	ppbv	
27) Carbon Disulfide	4.62	76	44901	0.452	ppbv #	90
28) Methyl tert-Butyl Ether	5.13	73	65366	0.516	ppbv	99
29) Chloroform	5.85	83	75230	0.525	ppbv	92
30) Cyclohexane	7.25	84	35916	0.515	ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	43032	0.493	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	67444	0.474	ppbv	94
34) 2-Butanone	5.34	43	68196	0.542	ppbv	96
35) Carbon Tetrachloride	7.13	117	65470	0.457	ppbv	93
36) Benzene	7.00	78	87798	0.495	ppbv	98
37) 1,2-Dichloroethane	6.41	62	58806	0.532	ppbv	98
38) Trichloroethene	7.96	130	33988	0.487	ppbv	92
39) 1,2-Dichloropropane	7.74	63	32750	0.485	ppbv	90
40) 1,4-Dioxane	8.00	88	13046m	0.528	ppbv	
41) Tetrahydrofuran	6.17	42	31822	0.456	ppbv	98
42) Bromodichloromethane	7.91	83	72984	0.484	ppbv	89
43) Methyl Methacrylate	8.15	69	32035	0.463	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	143660	0.483	ppbv	96
45) t-1,3-Dichloropropene	9.42	75	33857	0.400	ppbv #	86
46) cis-1,3-Dichloropropene	8.84	75	42921	0.431	ppbv	91
47) 1,1,2-Trichloroethane	9.61	97	37531m	0.517	ppbv	
48) Dibromochloromethane	10.45	129	53154	0.428	ppbv	98
49) Bromoform	13.21	173	49534m	0.441	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	88712	0.482	ppbv	97
51) 2-Hexanone	10.29	43	63137	0.431	ppbv #	96
52) Tetrachloroethene	11.38	164	33892	0.473	ppbv	97
53) Toluene	9.95	91	94000	0.465	ppbv	99
54) 1,2-Dibromoethane	10.76	107	55420m	0.468	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	46025	0.500	ppbv #	1
57) Chlorobenzene	12.31	112	87995	0.540	ppbv #	84
58) Ethyl Benzene	12.87	91	146110	0.503	ppbv	97
59) m/p-Xylene	13.15	91	261682m	1.058	ppbv	
60) o-Xylene	13.85	91	126991	0.524	ppbv	99
61) Styrene	13.69	104	82610	0.488	ppbv	97
62) Isopropylbenzene	14.83	105	176356	0.527	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	94758	0.517	ppbv	98
64) n-propylbenzene	15.72	120	44239m	0.523	ppbv	
65) tert-Butylbenzene	16.91	119	153273	0.497	ppbv	96
66) Benzyl Chloride	17.15	91	44818m	0.356	ppbv	
67) sec-Butylbenzene	17.46	105	220482	0.500	ppbv	100
69) p-Isopropyltoluene	17.82	119	176021	0.490	ppbv	96
70) n-Butylbenzene	18.72	91	192072	0.501	ppbv	97
71) 2-Chlorotoluene	15.62	91	135681	0.509	ppbv	99
72) 4-Ethyltoluene	16.00	105	137680m	0.498	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	134659	0.492	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	146804	0.509	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	94372m	0.563	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	84137	0.510	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	84810	0.523	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	56579m	0.579	ppbv	
79) Naphthalene	22.42	128	135316m	0.481	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	51843	0.382	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	71201m	0.488	ppbv	

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

