

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033703.D
 Acq On : 17 May 2019 3:56
 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
 5/20/2019 12:05:08 PM

Quant Time: May 17 08:03:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1108721	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2637681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2542103	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2109749	10.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	122501	0.483	ppbv	99
3) Chlorodifluoromethane	3.01	51	64711m	0.407	ppbv	
4) Chloromethane	3.17	50	36391	0.440	ppbv	93
5) Vinyl Chloride	3.29	62	36195	0.449	ppbv	94
6) Bromomethane	3.52	94	22315	0.435	ppbv	84
7) Chloroethane	3.60	64	13404	0.457	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	97931	0.461	ppbv	98
9) Propene	3.03	41	25666	0.421	ppbv	100
10) Heptane	8.25	43	66574	0.441	ppbv	100
11) Trichlorofluoromethane	4.00	101	112491	0.461	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	80764	0.491	ppbv	99
13) Ethanol	3.65	45	10438m	0.563	ppbv	
14) Bromoethene	3.79	108	27336	0.430	ppbv	98
15) Acetone	3.91	43	82656	0.498	ppbv	97
16) 1,3-Butadiene	3.36	39	28512	0.409	ppbv	96
17) tert-Butyl alcohol	4.38	59	61647	0.483	ppbv	97
18) 1,1-Dichloroethene	4.35	96	31275	0.441	ppbv	93
19) Isopropyl Alcohol	4.04	45	51349	0.495	ppbv #	92
20) Methylene Chloride	4.41	84	31253	0.498	ppbv	93
21) Allyl Chloride	4.48	41	46285	0.459	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	33419	0.476	ppbv	99
23) Vinyl Acetate	5.16	43	92916	0.434	ppbv #	95
24) 1,1-Dichloroethane	5.09	63	80851	0.500	ppbv	98
25) Ethyl Acetate	5.77	43	136317	0.504	ppbv	99
26) Hexane	5.78	57	54489	0.469	ppbv	85
27) Carbon Disulfide	4.62	76	74801	0.469	ppbv	95
28) Methyl tert-Butyl Ether	5.12	73	87010	0.448	ppbv	98
29) Chloroform	5.84	83	109725	0.526	ppbv	97
30) Cyclohexane	7.25	84	39492m	0.407	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	55508	0.486	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	102686	0.478	ppbv	97
34) 2-Butanone	5.34	43	83358	0.493	ppbv	98
35) Carbon Tetrachloride	7.13	117	110047	0.507	ppbv	93
36) Benzene	7.00	78	113904	0.478	ppbv #	93
37) 1,2-Dichloroethane	6.41	62	78165	0.470	ppbv	97
38) Trichloroethene	7.96	130	44166	0.508	ppbv	92
39) 1,2-Dichloropropane	7.73	63	42734	0.481	ppbv	89
40) 1,4-Dioxane	7.98	88	18275m	0.508	ppbv	
41) Tetrahydrofuran	6.17	42	39335m	0.444	ppbv	
42) Bromodichloromethane	7.91	83	100886	0.472	ppbv	93
43) Methyl Methacrylate	8.14	69	35717	0.399	ppbv	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	184880	0.454	ppbv	95
45) t-1,3-Dichloropropene	9.41	75	40662	0.368	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	49000	0.357	ppbv #	87
47) 1,1,2-Trichloroethane	9.61	97	49038m	0.481	ppbv	
48) Dibromochloromethane	10.45	129	76845	0.443	ppbv	99
49) Bromoform	13.19	173	60059	0.405	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	106874m	0.416	ppbv	
51) 2-Hexanone	10.29	43	75726m	0.379	ppbv	
52) Tetrachloroethene	11.37	164	41072	0.486	ppbv	91
53) Toluene	9.94	91	99005	0.383	ppbv	99
54) 1,2-Dibromoethane	10.76	107	68575	0.445	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.28	131	60806	0.514	ppbv #	1
57) Chlorobenzene	12.30	112	108970	0.517	ppbv #	89
58) Ethyl Benzene	12.86	91	139518	0.417	ppbv	94
59) m/p-Xylene	13.15	91	264954m	0.898	ppbv	
60) o-Xylene	13.85	91	135045	0.454	ppbv	97
61) Styrene	13.68	104	70552	0.355	ppbv	92
62) Isopropylbenzene	14.82	105	183613	0.451	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	113028	0.523	ppbv	99
64) n-propylbenzene	15.72	120	44635	0.425	ppbv	85
65) tert-Butylbenzene	16.90	119	156318	0.419	ppbv	92
66) Benzyl Chloride	17.15	91	60788	0.356	ppbv	99
67) sec-Butylbenzene	17.46	105	226379	0.435	ppbv	99
69) p-Isopropyltoluene	17.81	119	175586	0.409	ppbv	97
70) n-Butylbenzene	18.71	91	198689	0.438	ppbv	97
71) 2-Chlorotoluene	15.61	91	124525	0.414	ppbv	98
72) 4-Ethyltoluene	16.00	105	140527	0.402	ppbv	96
73) 1,3,5-Trimethylbenzene	16.16	105	142863	0.423	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	166641	0.443	ppbv	96
75) 1,3-Dichlorobenzene	17.15	146	111048m	0.490	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	100224	0.466	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	101744	0.484	ppbv	98
78) Hexachloro-1,3-Butadiene	23.54	225	87793	0.527	ppbv	99
79) Naphthalene	22.41	128	126908	0.369	ppbv	96
80) Naphthalene, 2-methyl-	25.12	142	36367	0.277	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	87239m	0.436	ppbv	

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

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