

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031215.D
 Acq On : 14 Dec 2017 00:21
 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
 12/15/2017 4:06:56 PM

Quant Time: Dec 14 04:02:13 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 03:40:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1502551	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	5337667	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3527660	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2555081	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	106390	0.69	ppbv	94
3) Chlorodifluoromethane	3.11	51	102086	0.50	ppbv	100
4) Chloromethane	3.27	50	54224	0.70	ppbv #	87
5) Vinyl Chloride	3.40	62	51633	0.61	ppbv	94
6) Bromomethane	3.63	94	33720	0.66	ppbv	96
7) Chloroethane	3.71	64	20328	0.68	ppbv	97
8) Dichlorotetrafluoroethane	3.32	85	124619	0.70	ppbv	97
9) Propene	3.14	41	49849	0.58	ppbv	98
10) Heptane	8.40	43	143704	0.57	ppbv	98
11) Trichlorofluoromethane	4.13	101	124197	0.69	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.68	101	81594	0.76	ppbv	100
13) Ethanol	3.78	45	16776m	1.03	ppbv	
14) Bromoethene	3.91	108	35733	0.65	ppbv #	98
15) Acetone	4.04	43	142078	0.94	ppbv	92
16) 1,3-Butadiene	3.47	39	45989	0.65	ppbv	94
17) tert-Butyl alcohol	4.51	59	64972m	0.89	ppbv	
18) 1,1-Dichloroethene	4.48	96	38694m	0.74	ppbv	
19) Isopropyl Alcohol	4.16	45	75926	0.86	ppbv #	43
20) Methylene Chloride	4.54	84	40448	0.77	ppbv	97
21) Allyl Chloride	4.61	41	66444	0.88	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	43264	0.66	ppbv	92
23) Vinyl Acetate	5.30	43	183561	0.68	ppbv	99
24) 1,1-Dichloroethane	5.23	63	127669	0.55	ppbv	99
25) Ethyl Acetate	5.92	43	218691	0.58	ppbv	98
26) Hexane	5.93	57	107476	0.59	ppbv	96
27) Carbon Disulfide	4.76	76	99516	0.78	ppbv #	64
28) Methyl tert-Butyl Ether	5.26	73	135736	0.67	ppbv	100
29) Chloroform	5.99	83	139497	0.53	ppbv	98
30) Cyclohexane	7.40	84	126263	0.87	ppbv	93
31) cis-1,2-Dichloroethene	5.78	61	93140	0.53	ppbv	97
32) 1,1,1-Trichloroethane	6.78	97	214205m	0.98	ppbv	
34) 2-Butanone	5.48	43	143523	0.33	ppbv	99
35) Carbon Tetrachloride	7.29	117	202838	0.54	ppbv	97
36) Benzene	7.16	78	312472	0.51	ppbv	96
37) 1,2-Dichloroethane	6.56	62	172465	0.48	ppbv	99
38) Trichloroethene	8.12	130	85074	0.37	ppbv	91
39) 1,2-Dichloropropane	7.90	63	101403	0.43	ppbv	93
40) 1,4-Dioxane	8.16	88	32383m	0.35	ppbv	
41) Tetrahydrofuran	6.32	42	84593	0.37	ppbv	97
42) Bromodichloromethane	8.08	83	141606	0.33	ppbv	98
43) Methyl Methacrylate	8.30	69	73687	0.34	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	357013	0.35	ppbv	97
45) t-1,3-Dichloropropene	9.58	75	94303	0.36	ppbv	95
46) cis-1,3-Dichloropropene	9.00	75	122703	0.35	ppbv	95
47) 1,1,2-Trichloroethane	9.78	97	83744	0.34	ppbv	96
48) Dibromochloromethane	10.62	129	120414	0.36	ppbv	98
49) Bromoform	13.37	173	81129	0.32	ppbv	98
50) 4-Methyl-2-Pentanone	9.05	43	180702	0.33	ppbv	99
51) 2-Hexanone	10.45	43	171648	0.33	ppbv #	99
52) Tetrachloroethene	11.54	164	82357	0.38	ppbv	98
53) Toluene	10.11	91	249274	0.36	ppbv	100
54) 1,2-Dibromoethane	10.93	107	128316	0.36	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.45	131	89253	0.62	ppbv #	1
57) Chlorobenzene	12.47	112	197394	0.57	ppbv	94
58) Ethyl Benzene	13.03	91	347639	0.58	ppbv	98
59) m/p-Xylene	13.32	91	561782m	1.10	ppbv	
60) o-Xylene	14.02	91	289586m	0.57	ppbv	
61) Styrene	13.85	104	77385	0.61	ppbv	98
62) Isopropylbenzene	14.99	105	372126	0.61	ppbv	98
63) 1,1,2,2-Tetrachloroethane	14.01	83	183858	0.47	ppbv	100
64) n-propylbenzene	15.89	120	95594	0.58	ppbv	90
65) tert-Butylbenzene	17.07	119	346361	0.65	ppbv	97
66) Benzyl Chloride	17.33	91	27055	0.59	ppbv #	90
67) sec-Butylbenzene	17.63	105	465018	0.58	ppbv	99
69) p-Isopropyltoluene	17.98	119	386858	0.62	ppbv	99
70) n-Butylbenzene	18.88	91	362247	0.53	ppbv	99
71) 2-Chlorotoluene	15.79	91	273234	0.56	ppbv	99
72) 4-Ethyltoluene	16.17	105	310628	0.61	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	280523	0.59	ppbv	96
74) 1,2,4-Trimethylbenzene	17.09	105	304415	0.58	ppbv	96
75) 1,3-Dichlorobenzene	17.34	146	181245	0.55	ppbv	97
76) 1,4-Dichlorobenzene	17.48	146	186725	0.56	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	181236	0.56	ppbv	99
78) Hexachloro-1,3-Butadiene	23.70	225	42219m	0.68	ppbv	
79) Naphthalene	22.61	128	229671	0.65	ppbv	97
80) Naphthalene, 2-methyl-	25.25	142	72647	0.70	ppbv	97
81) 1,2,4-Trichlorobenzene	22.34	180	108438m	0.62	ppbv	

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

