

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031884.D
 Acq On : 19 Apr 2018 19:08
 Operator : SY/AP
 Sample : J2133-14 1 PPBV
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2018

Manual Integrations
 APPROVED

sam
 4/23/2018 12:49:58 PM

Quant Time: Apr 20 08:35:11 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1173565	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2733814	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2679570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2211823	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	284042	1.17	ppbv	100
3) Chlorodifluoromethane	3.10	51	154127	1.13	ppbv	100
4) Chloromethane	3.26	50	81036	1.16	ppbv	93
5) Vinyl Chloride	3.38	62	84055	1.07	ppbv	90
6) Bromomethane	3.61	94	61228	1.19	ppbv	96
7) Chloroethane	3.70	64	35333	1.13	ppbv	94
8) Dichlorotetrafluoroethane	3.31	85	230492	1.16	ppbv	99
9) Propene	3.12	41	42396	0.90	ppbv	93
10) Heptane	8.39	43	164135	1.07	ppbv	100
11) Trichlorofluoromethane	4.11	101	276368	1.16	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	178509	1.16	ppbv	100
13) Ethanol	3.76	45	18232	1.14	ppbv	95
14) Bromoethene	3.89	108	65608	1.13	ppbv	99
15) Acetone	4.01	43	217822	1.21	ppbv	97
16) 1,3-Butadiene	3.46	39	74020	1.11	ppbv	96
17) tert-Butyl alcohol	4.49	59	84276	1.13	ppbv	97
18) 1,1-Dichloroethene	4.47	96	71172	1.07	ppbv	97
19) Isopropyl Alcohol	4.14	45	107438m	1.06	ppbv	
20) Methylene Chloride	4.52	84	70328	1.07	ppbv	96
21) Allyl Chloride	4.59	41	109265	1.06	ppbv	98
22) trans-1,2-Dichloroethene	5.08	96	78457	1.14	ppbv	97
23) Vinyl Acetate	5.27	43	180612	0.99	ppbv #	95
24) 1,1-Dichloroethane	5.21	63	194024	1.06	ppbv	99
25) Ethyl Acetate	5.90	43	306189	1.09	ppbv	99
26) Hexane	5.91	57	136238	1.04	ppbv	88
27) Carbon Disulfide	4.74	76	178669	1.05	ppbv	95
28) Methyl tert-Butyl Ether	5.25	73	156540m	0.97	ppbv	
29) Chloroform	5.97	83	250495	1.13	ppbv	100
30) Cyclohexane	7.38	84	94654	1.01	ppbv #	63
31) cis-1,2-Dichloroethene	5.76	61	113533	0.95	ppbv	97
32) 1,1,1-Trichloroethane	6.75	97	240961	1.11	ppbv	99
34) 2-Butanone	5.46	43	195302	1.03	ppbv	98
35) Carbon Tetrachloride	7.27	117	248642	1.05	ppbv	95
36) Benzene	7.14	78	245659	1.00	ppbv	96
37) 1,2-Dichloroethane	6.54	62	199183	1.09	ppbv	99
38) Trichloroethene	8.10	130	99767	1.00	ppbv	95
39) 1,2-Dichloropropane	7.87	63	94704	1.04	ppbv	93
40) 1,4-Dioxane	8.13	88	40390m	1.09	ppbv	
41) Tetrahydrofuran	6.29	42	74488	0.85	ppbv	96
42) Bromodichloromethane	8.05	83	239186	1.09	ppbv	96
43) Methyl Methacrylate	8.28	69	75722	0.88	ppbv	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	462671	1.09	ppbv	96
45) t-1,3-Dichloropropene	9.56	75	95696	0.85	ppbv	98
46) cis-1,3-Dichloropropene	8.97	75	132671	0.92	ppbv #	86
47) 1,1,2-Trichloroethane	9.76	97	117413	1.08	ppbv	92
48) Dibromochloromethane	10.59	129	187483	1.07	ppbv	100
49) Bromoform	13.35	173	143591	1.06	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	230004m	1.06	ppbv	
51) 2-Hexanone	10.43	43	196600m	1.04	ppbv	
52) Tetrachloroethene	11.52	164	92823	0.97	ppbv	93
53) Toluene	10.09	91	264689	0.97	ppbv	98
54) 1,2-Dibromoethane	10.91	107	158996	1.01	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	145204	1.15	ppbv #	1
57) Chlorobenzene	12.45	112	262393	1.15	ppbv #	97
58) Ethyl Benzene	13.01	91	387945	1.04	ppbv	99
59) m/p-Xylene	13.30	91	726313m	2.25	ppbv	
60) o-Xylene	13.99	91	352348	1.09	ppbv	99
61) Styrene	13.83	104	47673m	0.78	ppbv	
62) Isopropylbenzene	14.97	105	459718	1.11	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	278768	1.12	ppbv	99
64) n-propylbenzene	15.87	120	112275	1.11	ppbv	95
65) tert-Butylbenzene	17.05	119	402572	1.13	ppbv	96
66) Benzyl Chloride	17.31	91	31775m	0.99	ppbv	
67) sec-Butylbenzene	17.61	105	602920	1.17	ppbv	98
69) p-Isopropyltoluene	17.96	119	453216	1.14	ppbv	99
70) n-Butylbenzene	18.86	91	473175	1.14	ppbv	99
71) 2-Chlorotoluene	15.77	91	316873	1.06	ppbv	99
72) 4-Ethyltoluene	16.15	105	337894	1.02	ppbv	97
73) 1,3,5-Trimethylbenzene	16.30	105	318345	1.05	ppbv	96
74) 1,2,4-Trimethylbenzene	17.07	105	384699	1.14	ppbv #	90
75) 1,3-Dichlorobenzene	17.31	146	253472m	1.23	ppbv	
76) 1,4-Dichlorobenzene	17.45	146	236441m	1.18	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	245849	1.21	ppbv	98
78) Hexachloro-1,3-Butadiene	23.68	225	100468m	1.28	ppbv	
79) Naphthalene	22.59	128	171610	0.90	ppbv #	96
80) Naphthalene, 2-methyl-	25.24	142	22818	0.62	ppbv	94
81) 1,2,4-Trichlorobenzene	22.31	180	107033m	1.02	ppbv	

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

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