

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034511.D
 Acq On : 30 Dec 2019 11:43
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:39 AM

Quant Time: Dec 30 14:30:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1081809	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2160719	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2166952	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1786582	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	195883	1.001 ppbv	96
3) Chlorodifluoromethane	2.95	51	139956	1.037 ppbv	98
4) Chloromethane	3.11	50	82421	1.035 ppbv	89
5) Vinyl Chloride	3.23	62	72507	0.972 ppbv	95
6) Bromomethane	3.45	94	39641	1.056 ppbv	93
7) Chloroethane	3.53	64	28251	1.043 ppbv	93
8) Dichlorotetrafluoroethane	3.16	85	189643	1.079 ppbv	99
9) Propene	2.98	41	50389	0.841 ppbv	98
10) Heptane	8.14	43	129566	0.838 ppbv	97
11) Trichlorofluoromethane	3.93	101	216776	1.113 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.47	101	131701	1.018 ppbv	99
13) Ethanol	3.58	45	15258m	0.914 ppbv	
14) Bromoethene	3.72	108	53139	1.010 ppbv	97
15) Acetone	3.83	43	178398	1.152 ppbv	97
16) 1,3-Butadiene	3.30	39	65887	0.976 ppbv	94
17) tert-Butyl alcohol	4.28	59	140351m	1.078 ppbv	
18) 1,1-Dichloroethene	4.28	96	58310	1.031 ppbv	94
19) Isopropyl Alcohol	3.95	45	117459	1.183 ppbv #	93
20) Methylene Chloride	4.33	84	75416m	1.373 ppbv	
21) Allyl Chloride	4.40	41	95333m	1.027 ppbv	
22) trans-1,2-Dichloroethene	4.88	96	58719	1.029 ppbv	95
23) Vinyl Acetate	5.07	43	182751	0.903 ppbv	97
24) 1,1-Dichloroethane	5.00	63	157922	1.016 ppbv	99
25) Ethyl Acetate	5.68	43	261174	0.945 ppbv	99
26) Hexane	5.69	57	110751	0.932 ppbv	98
27) Carbon Disulfide	4.54	76	131565	1.017 ppbv	96
28) Methyl tert-Butyl Ether	5.03	73	179448	0.911 ppbv	99
29) Chloroform	5.75	83	195661	1.017 ppbv	98
30) Cyclohexane	7.15	84	72121	0.803 ppbv	95
31) cis-1,2-Dichloroethene	5.55	61	107750	0.878 ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	194591m	1.079 ppbv	
34) 2-Butanone	5.24	43	166281	0.935 ppbv	100
35) Carbon Tetrachloride	7.03	117	204243	1.099 ppbv	84
36) Benzene	6.91	78	197234	0.913 ppbv	95
37) 1,2-Dichloroethane	6.31	62	164847	1.027 ppbv	99
38) Trichloroethene	7.86	130	78606	0.887 ppbv	96
39) 1,2-Dichloropropane	7.63	63	83088	0.998 ppbv	91
40) 1,4-Dioxane	7.86	88	34447m	0.948 ppbv	
41) Tetrahydrofuran	6.07	42	80166	0.804 ppbv	99
42) Bromodichloromethane	7.81	83	193137	0.962 ppbv	97
43) Methyl Methacrylate	8.03	69	77264	0.862 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	374127	0.948	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	87747	0.764	ppbv	96
46) cis-1,3-Dichloropropene	8.73	75	104775	0.812	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	89497m	0.967	ppbv	
48) Dibromochloromethane	10.34	129	151371	0.952	ppbv	100
49) Bromoform	13.09	173	136022m	0.959	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	235337	0.915	ppbv	98
51) 2-Hexanone	10.18	43	176653	0.820	ppbv #	97
52) Tetrachloroethene	11.26	164	73949m	0.791	ppbv	
53) Toluene	9.84	91	208637	0.850	ppbv	99
54) 1,2-Dibromoethane	10.64	107	130619	0.920	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.17	131	106139m	1.001	ppbv	
57) Chlorobenzene	12.19	112	188389	0.962	ppbv	91
58) Ethyl Benzene	12.76	91	309011	0.919	ppbv	97
59) m/p-Xylene	13.03	91	539516m	1.856	ppbv	
60) o-Xylene	13.74	91	270656	0.942	ppbv	96
61) Styrene	13.58	104	177972	0.859	ppbv	99
62) Isopropylbenzene	14.72	105	355875	0.936	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.73	83	208268	0.964	ppbv	100
64) n-propylbenzene	15.62	120	89480	0.906	ppbv	84
65) tert-Butylbenzene	16.80	119	315213	0.923	ppbv	93
66) Benzyl Chloride	17.05	91	118215m	0.900	ppbv	
67) sec-Butylbenzene	17.35	105	465702	0.975	ppbv	95
69) p-Isopropyltoluene	17.70	119	369507	0.932	ppbv	99
70) n-Butylbenzene	18.61	91	400169	0.938	ppbv	96
71) 2-Chlorotoluene	15.51	91	278437	0.919	ppbv	98
72) 4-Ethyltoluene	15.89	105	293507	0.884	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	297815	0.916	ppbv	95
74) 1,2,4-Trimethylbenzene	16.82	105	324018	0.938	ppbv #	88
75) 1,3-Dichlorobenzene	17.06	146	201625m	1.016	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	186518m	0.968	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	177924	0.928	ppbv	97
78) Hexachloro-1,3-Butadiene	23.44	225	174388	1.059	ppbv	97
79) Naphthalene	22.28	128	210278	0.702	ppbv #	93
80) Naphthalene, 2-methyl-	25.04	142	22509	0.167	ppbv #	82
81) 1,2,4-Trichlorobenzene	22.01	180	144694m	0.787	ppbv	

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

