

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034512.D
 Acq On : 30 Dec 2019 12:20
 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

apatel
 1/2/2020 10:48:43 AM

Quant Time: Dec 30 14:33:32 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	1075823	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2143952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2085904	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1774260	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	125141	0.643 ppbv	93
3) Chlorodifluoromethane	2.95	51	72271	0.538 ppbv	99
4) Chloromethane	3.11	50	42582	0.538 ppbv	94
5) Vinyl Chloride	3.23	62	36827	0.496 ppbv	99
6) Bromomethane	3.45	94	19867	0.532 ppbv	87
7) Chloroethane	3.53	64	13655	0.507 ppbv	100
8) Dichlorotetrafluoroethane	3.16	85	93947	0.538 ppbv	99
9) Propene	2.98	41	25885m	0.434 ppbv	
10) Heptane	8.15	43	59286	0.385 ppbv	100
11) Trichlorofluoromethane	3.93	101	110202	0.569 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	66894	0.520 ppbv	95
13) Ethanol	3.58	45	8154m	0.491 ppbv	
14) Bromoethene	3.72	108	27392m	0.524 ppbv	
15) Acetone	3.84	43	94692	0.615 ppbv	98
16) 1,3-Butadiene	3.30	39	28448	0.424 ppbv	98
17) tert-Butyl alcohol	4.29	59	71192	0.550 ppbv	100
18) 1,1-Dichloroethene	4.28	96	27642m	0.491 ppbv	
19) Isopropyl Alcohol	3.96	45	58544m	0.593 ppbv	
20) Methylene Chloride	4.33	84	36133	0.661 ppbv	91
21) Allyl Chloride	4.40	41	45648	0.495 ppbv	96
22) trans-1,2-Dichloroethene	4.88	96	28378	0.500 ppbv	85
23) Vinyl Acetate	5.07	43	87405	0.434 ppbv	99
24) 1,1-Dichloroethane	5.00	63	77546m	0.502 ppbv	
25) Ethyl Acetate	5.69	43	125299	0.456 ppbv	99
26) Hexane	5.69	57	51088	0.432 ppbv	88
27) Carbon Disulfide	4.54	76	59921	0.466 ppbv	95
28) Methyl tert-Butyl Ether	5.04	73	80455	0.411 ppbv	95
29) Chloroform	5.75	83	93604	0.489 ppbv	98
30) Cyclohexane	7.15	84	38499m	0.431 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	48990m	0.401 ppbv	
32) 1,1,1-Trichloroethane	6.52	97	96471	0.538 ppbv	95
34) 2-Butanone	5.25	43	74918	0.425 ppbv	97
35) Carbon Tetrachloride	7.04	117	92870	0.504 ppbv	86
36) Benzene	6.90	78	89252	0.416 ppbv	97
37) 1,2-Dichloroethane	6.32	62	80639m	0.506 ppbv	
38) Trichloroethene	7.86	130	39209m	0.446 ppbv	
39) 1,2-Dichloropropane	7.63	63	35122	0.425 ppbv #	85
40) 1,4-Dioxane	7.89	88	16199m	0.449 ppbv	
41) Tetrahydrofuran	6.07	42	32525	0.329 ppbv	98
42) Bromodichloromethane	7.81	83	95631m	0.480 ppbv	
43) Methyl Methacrylate	8.04	69	32770	0.369 ppbv	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.89	57	173415	0.443	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	40287m	0.353	ppbv	
46) cis-1,3-Dichloropropene	8.74	75	47636m	0.372	ppbv	
47) 1,1,2-Trichloroethane	9.51	97	45652m	0.497	ppbv	
48) Dibromochloromethane	10.34	129	64468	0.409	ppbv	92
49) Bromoform	13.09	173	59517m	0.423	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	103620	0.406	ppbv	96
51) 2-Hexanone	10.19	43	79514m	0.372	ppbv	
52) Tetrachloroethene	11.27	164	32123	0.346	ppbv	92
53) Toluene	9.84	91	87968	0.361	ppbv	96
54) 1,2-Dibromoethane	10.65	107	58160m	0.413	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.18	131	54709m	0.536	ppbv	
57) Chlorobenzene	12.19	112	93203	0.494	ppbv #	85
58) Ethyl Benzene	12.76	91	126274	0.390	ppbv	100
59) m/p-Xylene	13.04	91	240539m	0.860	ppbv	
60) o-Xylene	13.74	91	121594m	0.440	ppbv	
61) Styrene	13.58	104	71105	0.356	ppbv	97
62) Isopropylbenzene	14.72	105	161895	0.442	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.73	83	104443m	0.502	ppbv	
64) n-propylbenzene	15.61	120	39657m	0.417	ppbv	
65) tert-Butylbenzene	16.80	119	142127m	0.432	ppbv	
66) Benzyl Chloride	17.04	91	53753m	0.425	ppbv	
67) sec-Butylbenzene	17.35	105	199679m	0.434	ppbv	
69) p-Isopropyltoluene	17.72	119	153707m	0.403	ppbv	
70) n-Butylbenzene	18.61	91	172042	0.419	ppbv	93
71) 2-Chlorotoluene	15.51	91	117098	0.401	ppbv	98
72) 4-Ethyltoluene	15.89	105	129216	0.404	ppbv	97
73) 1,3,5-Trimethylbenzene	16.05	105	129077	0.413	ppbv	92
74) 1,2,4-Trimethylbenzene	16.82	105	146448m	0.441	ppbv	
75) 1,3-Dichlorobenzene	17.05	146	96350m	0.504	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	87064m	0.469	ppbv	
77) 1,2-Dichlorobenzene	17.88	146	87657m	0.475	ppbv	
78) Hexachloro-1,3-Butadiene	23.44	225	83185m	0.525	ppbv	
79) Naphthalene	22.30	128	81181m	0.282	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	12192	0.094	ppbv	92
81) 1,2,4-Trichlorobenzene	22.02	180	63847m	0.361	ppbv	

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

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