

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032351.D
 Acq On : 15 Aug 2018 11:56
 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
 8/17/2018 2:06:27 PM

Quant Time: Aug 15 12:51:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	2285545	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4886018	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.31	117	4620083	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	3554897	9.91	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	179098	0.65	ppbv	98
3) Chlorodifluoromethane	3.05	51	114438	0.50	ppbv	98
4) Chloromethane	3.21	50	70032	0.51	ppbv	96
5) Vinyl Chloride	3.33	62	62726	0.50	ppbv	96
6) Bromomethane	3.56	94	34071	0.49	ppbv	90
7) Chloroethane	3.65	64	23269	0.52	ppbv	94
8) Dichlorotetrafluoroethane	3.26	85	149596	0.54	ppbv	98
9) Propene	3.07	41	42812	0.42	ppbv	99
10) Heptane	8.31	43	125558	0.35	ppbv	98
11) Trichlorofluoromethane	4.05	101	145409	0.55	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.60	101	95418	0.53	ppbv	94
13) Ethanol	3.70	45	11310m	0.38	ppbv	
14) Bromoethene	3.83	108	41552	0.53	ppbv #	96
15) Acetone	3.96	43	127717	0.59	ppbv	97
16) 1,3-Butadiene	3.41	39	44297m	0.40	ppbv	
17) tert-Butyl alcohol	4.43	59	19062m	0.28	ppbv	
18) 1,1-Dichloroethene	4.40	96	42795	0.51	ppbv	96
19) Isopropyl Alcohol	4.10	45	79382m	0.55	ppbv	
20) Methylene Chloride	4.46	84	50903	0.59	ppbv	90
21) Allyl Chloride	4.53	41	66012	0.45	ppbv	96
22) trans-1,2-Dichloroethene	5.01	96	38268	0.48	ppbv #	83
23) Vinyl Acetate	5.21	43	164526	0.43	ppbv #	95
24) 1,1-Dichloroethane	5.14	63	135551	0.49	ppbv	96
25) Ethyl Acetate	5.83	43	230363	0.48	ppbv	98
26) Hexane	5.84	57	97972	0.45	ppbv	89
27) Carbon Disulfide	4.67	76	96975	0.49	ppbv #	89
28) Methyl tert-Butyl Ether	5.18	73	121189	0.41	ppbv	98
29) Chloroform	5.90	83	159262	0.50	ppbv	89
30) Cyclohexane	7.31	84	76569m	0.45	ppbv	
31) cis-1,2-Dichloroethene	5.69	61	93650	0.46	ppbv	95
32) 1,1,1-Trichloroethane	6.68	97	149978	0.53	ppbv	99
34) 2-Butanone	5.40	43	153155	0.48	ppbv	99
35) Carbon Tetrachloride	7.20	117	144573	0.52	ppbv	90
36) Benzene	7.07	78	189985	0.44	ppbv	98
37) 1,2-Dichloroethane	6.48	62	127793m	0.51	ppbv	
38) Trichloroethene	8.03	130	65180	0.39	ppbv	96
39) 1,2-Dichloropropane	7.80	63	82356	0.38	ppbv	95
40) 1,4-Dioxane	8.06	88	23317m	0.37	ppbv	
41) Tetrahydrofuran	6.23	42	70026	0.39	ppbv	98
42) Bromodichloromethane	7.98	83	157302	0.39	ppbv	96
43) Methyl Methacrylate	8.21	69	64501	0.31	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	331000	0.35	ppbv	94
45) t-1,3-Dichloropropene	9.48	75	74919m	0.31	ppbv	
46) cis-1,3-Dichloropropene	8.90	75	89950	0.31	ppbv	96
47) 1,1,2-Trichloroethane	9.68	97	92749	0.44	ppbv	98
48) Dibromochloromethane	10.51	129	115511	0.37	ppbv	98
49) Bromoform	13.27	173	90428	0.35	ppbv	97
50) 4-Methyl-2-Pentanone	8.95	43	206748	0.37	ppbv	98
51) 2-Hexanone	10.36	43	121471	0.29	ppbv #	93
52) Tetrachloroethene	11.44	164	59904	0.41	ppbv	96
53) Toluene	10.02	91	170831	0.33	ppbv	95
54) 1,2-Dibromoethane	10.83	107	109362	0.37	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.34	131	102272	0.54	ppbv #	1
57) Chlorobenzene	12.37	112	183772	0.51	ppbv #	96
58) Ethyl Benzene	12.93	91	230058	0.40	ppbv	97
59) m/p-Xylene	13.22	91	433002m	0.88	ppbv	
60) o-Xylene	13.92	91	206490	0.43	ppbv	98
61) Styrene	13.76	104	116637	0.33	ppbv	99
62) Isopropylbenzene	14.90	105	305942	0.45	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.90	83	208382	0.53	ppbv	99
64) n-propylbenzene	15.79	120	76795m	0.43	ppbv	
65) tert-Butylbenzene	16.97	119	254989	0.44	ppbv	99
66) Benzyl Chloride	17.22	91	129294m	0.37	ppbv	
67) sec-Butylbenzene	17.53	105	385442	0.44	ppbv	98
69) p-Isopropyltoluene	17.88	119	272435	0.40	ppbv	98
70) n-Butylbenzene	18.78	91	296882	0.38	ppbv	95
71) 2-Chlorotoluene	15.69	91	218531	0.41	ppbv	97
72) 4-Ethyltoluene	16.07	105	203888	0.38	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.22	105	209066	0.39	ppbv	94
74) 1,2,4-Trimethylbenzene	16.99	105	245349	0.44	ppbv	98
75) 1,3-Dichlorobenzene	17.23	146	168239	0.52	ppbv	95
76) 1,4-Dichlorobenzene	17.37	146	136800	0.44	ppbv	96
77) 1,2-Dichlorobenzene	18.06	146	148580m	0.46	ppbv	
78) Hexachloro-1,3-Butadiene	23.60	225	57926m	0.51	ppbv	
79) Naphthalene	22.49	128	115850m	0.24	ppbv	
80) Naphthalene, 2-methyl-	25.17	142	9652	0.05	ppbv	87
81) 1,2,4-Trichlorobenzene	22.21	180	76926m	0.32	ppbv	

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

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