

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101118\
 Data File : VX005257.D
 Acq On : 11 Oct 2018 16:46
 Operator : JC/MD
 Sample : VX1011WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1011WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:34:12 PM

Quant Time: Oct 12 07:31:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	225016	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	307854	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164925	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	138335	43.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.08%	
35) Dibromofluoromethane	5.50	113	113683	43.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.14%	
50) Toluene-d8	8.71	98	417460	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
62) 4-Bromofluorobenzene	11.14	95	158990	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	57479	18.73	ug/l	98
3) Chloromethane	1.32	50	60789	16.33	ug/l	100
4) Vinyl Chloride	1.40	62	61407	17.59	ug/l	99
5) Bromomethane	1.64	94	33225	16.05	ug/l	96
6) Chloroethane	1.71	64	39638	19.41	ug/l	98
7) Trichlorofluoromethane	1.92	101	82699	19.13	ug/l	93
8) Diethyl Ether	2.19	74	32005	17.05	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	47185	19.17	ug/l	99
10) Methyl Iodide	2.51	142	41389	12.56	ug/l	92
11) Tert butyl alcohol	3.07	59	72022	80.13	ug/l	100
12) 1,1-Dichloroethene	2.37	96	42286	17.34	ug/l	93
13) Acrolein	2.29	56	37260	58.27	ug/l	89
14) Allyl chloride	2.73	41	93484	17.57	ug/l	95
15) Acrylonitrile	3.15	53	172990	87.43	ug/l	97
16) Acetone	2.45	43	158590	84.51	ug/l	92
17) Carbon Disulfide	2.57	76	116119	15.85	ug/l	99
18) Methyl Acetate	2.78	43	92198	19.39	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	157397	18.72	ug/l	94
20) Methylene Chloride	2.85	84	49611	17.64	ug/l	92
21) trans-1,2-Dichloroethene	3.16	96	45420	17.02	ug/l #	83
22) Diisopropyl ether	3.87	45	151804	16.95	ug/l	98
23) Vinyl Acetate	3.82	43	699943	85.36	ug/l	99
24) 1,1-Dichloroethane	3.70	63	92790	17.36	ug/l	99
25) 2-Butanone	4.71	43	218128	78.86	ug/l	95
26) 2,2-Dichloropropane	4.58	77	65753	17.67	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	47587	15.96	ug/l	93
28) Bromochloromethane	5.03	49	35798	14.23	ug/l	98
29) Tetrahydrofuran	5.16	42	140087	81.48	ug/l	99
30) Chloroform	5.21	83	83005	16.44	ug/l	99
31) Cyclohexane	5.57	56	70307	17.19	ug/l	90
32) 1,1,1-Trichloroethane	5.49	97	71946	17.44	ug/l	95
36) 1,1-Dichloropropene	5.80	75	60847	17.09	ug/l	96
37) Ethyl Acetate	4.86	43	77618	16.43	ug/l	98
38) Carbon Tetrachloride	5.78	117	67429	18.02	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	69083	19.01	ug/l	87
40) Benzene	6.15	78	184381	16.54	ug/l	94
41) Methacrylonitrile	5.06	41	45803	17.48	ug/l	97
42) 1,2-Dichloroethane	6.20	62	68034	17.27	ug/l	99
43) Isopropyl Acetate	6.46	43	113437	16.63	ug/l	97
44) Trichloroethene	7.21	130	48743	17.79	ug/l	98
45) 1,2-Dichloropropane	7.52	63	50454	18.46	ug/l	98
46) Dibromomethane	7.66	93	31848	18.54	ug/l	99
47) Bromodichloromethane	7.90	83	61584	19.15	ug/l	99
48) Methyl methacrylate	7.78	41	58111	18.77	ug/l	97
49) 1,4-Dioxane	7.76	88	24030	312.46	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	410323	95.55	ug/l	99
52) Toluene	8.79	92	116415	19.01	ug/l	97
53) t-1,3-Dichloropropene	9.04	75	66437	18.28	ug/l	93
54) cis-1,3-Dichloropropene	8.44	75	71701	18.84	ug/l	97
55) 1,1,2-Trichloroethane	9.22	97	49027	18.28	ug/l	96
56) Ethyl methacrylate	9.18	69	69615	17.94	ug/l	97
57) 1,3-Dichloropropane	9.37	76	80235	17.97	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.32	63	166823	82.31	ug/l	98
59) 2-Hexanone	9.50	43	322159	90.03	ug/l	94
60) Dibromochloromethane	9.59	129	49313	18.38	ug/l	98
61) 1,2-Dibromoethane	9.67	107	50197	17.47	ug/l	96
64) Tetrachloroethene	9.34	164	49397	17.27	ug/l	96
65) Chlorobenzene	10.14	112	130876	17.56	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.23	131	47409	18.10	ug/l	100
67) Ethyl Benzene	10.25	91	215575	18.22	ug/l	94
68) m/p-Xylenes	10.36	106	169517	36.67	ug/l	95
69) o-Xylene	10.70	106	79809	18.80	ug/l	99
70) Styrene	10.71	104	135203	18.44	ug/l	99
71) Bromoform	10.86	173	39994	17.83	ug/l #	97
73) Isopropylbenzene	11.02	105	222321	21.39	ug/l	100
74) N-amyl acetate	10.90	43	100552	18.73	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	79274	18.73	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	73502m	19.88	ug/l	
77) Bromobenzene	11.26	156	61118	20.24	ug/l	98
78) n-propylbenzene	11.36	91	259638	21.77	ug/l	99
79) 2-Chlorotoluene	11.42	91	152811	20.55	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	191571	19.99	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.07	75	21332	17.10	ug/l	93
82) 4-Chlorotoluene	11.51	91	182275	20.83	ug/l	100
83) tert-Butylbenzene	11.77	119	185589	21.68	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	197344	19.97	ug/l	99
85) sec-Butylbenzene	11.94	105	230286	22.09	ug/l	100
86) p-Isopropyltoluene	12.07	119	207300	21.95	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	114343	20.28	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	116188	19.96	ug/l	99
89) n-Butylbenzene	12.39	91	179481	20.92	ug/l	100
90) Hexachloroethane	12.60	117	32720	20.81	ug/l	98
91) 1,2-Dichlorobenzene	12.39	146	112970	19.17	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	18067	19.44	ug/l	99

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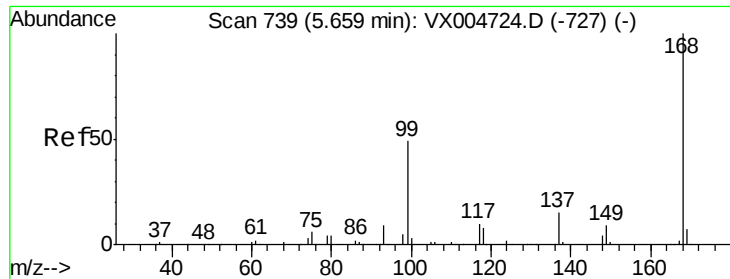
Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	85392	20.66	ug/l	99
94) Hexachlorobutadiene	13.79	225	45559	21.26	ug/l	99
95) Naphthalene	13.83	128	247426	18.50	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	86956	20.37	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005257.D

Acq: 11 Oct 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBS01

Tgt Ion:168 Resp: 225016

Ion Ratio Lower Upper

168 100

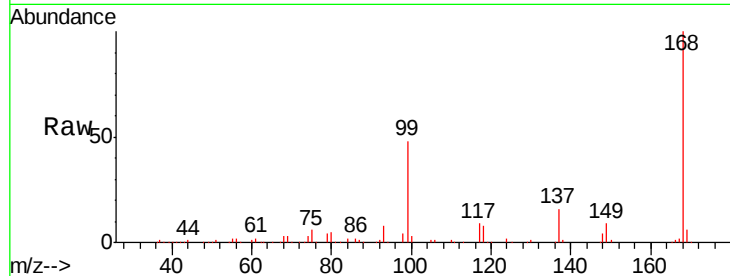
99 48.3 39.3 58.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

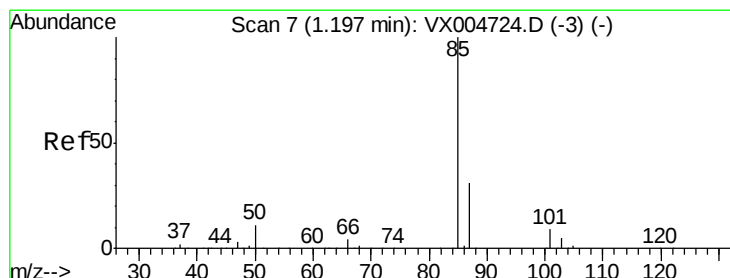
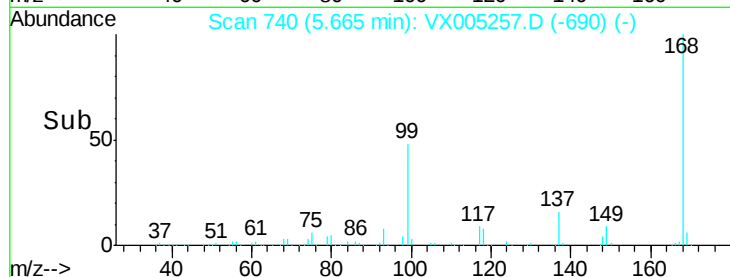
40000

20000

0

5.60 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.73 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX005257.D

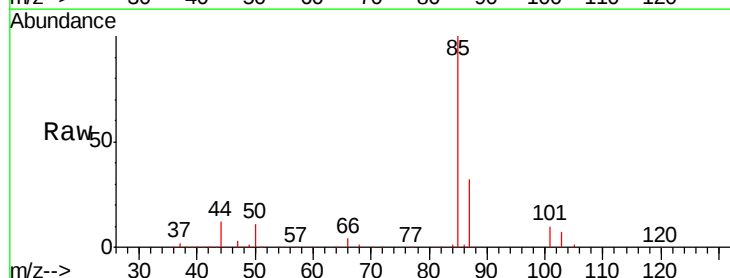
Acq: 11 Oct 2018 16:46

Tgt Ion: 85 Resp: 57479

Ion Ratio Lower Upper

85 100

87 32.4 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

60000

50000

40000

30000

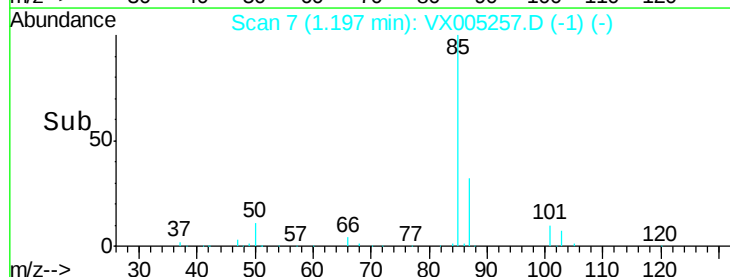
20000

10000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 16.33 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005257.D

Acq: 11 Oct 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBS01

Tgt Ion: 50 Resp: 60789

Ion Ratio Lower Upper

50 100

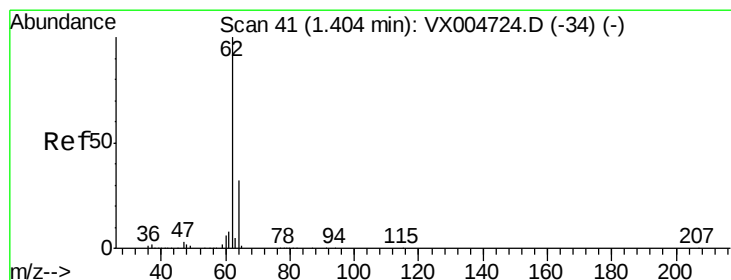
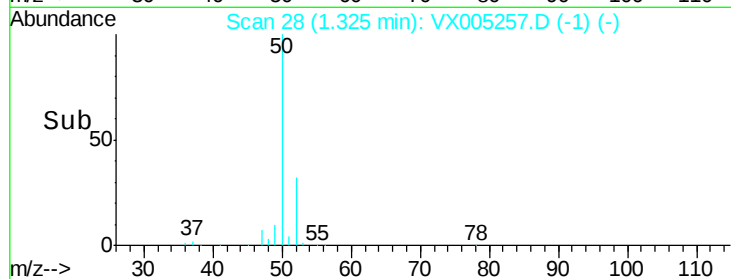
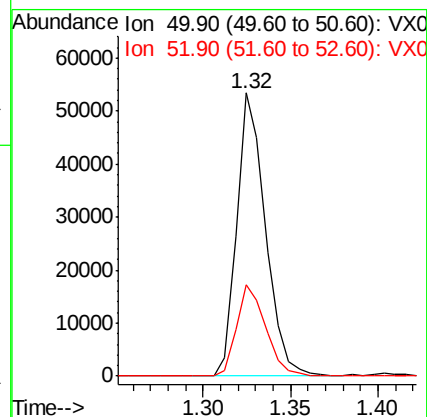
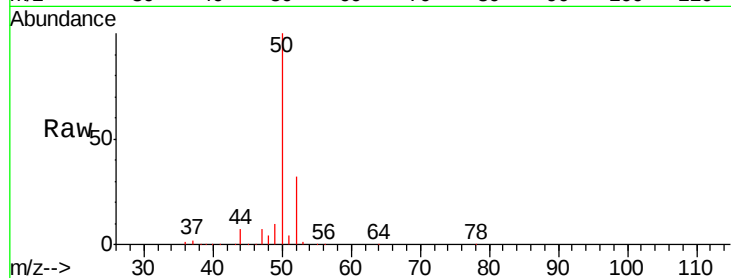
52 32.2 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.59 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX005257.D

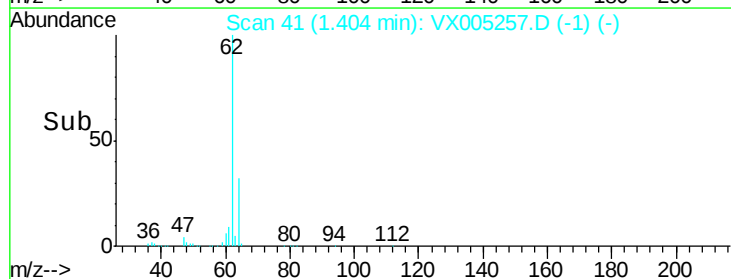
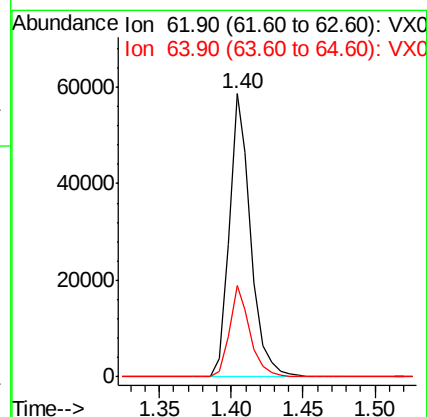
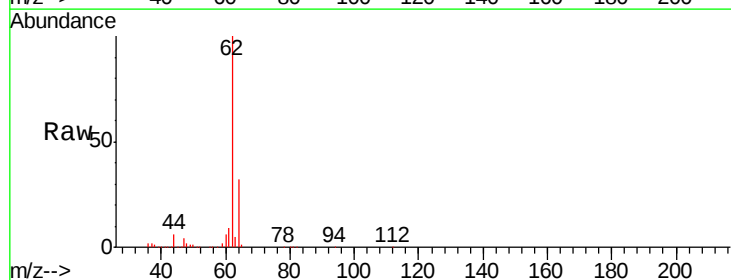
Acq: 11 Oct 2018 16:46

Tgt Ion: 62 Resp: 61407

Ion Ratio Lower Upper

62 100

64 32.3 25.5 38.3





#5

Bromomethane

Concen: 16.05 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005257.D

Acq: 11 Oct 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

VX1011WBS01

Tgt Ion: 94 Resp: 33225

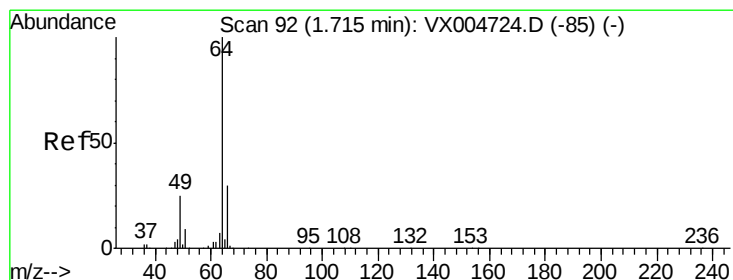
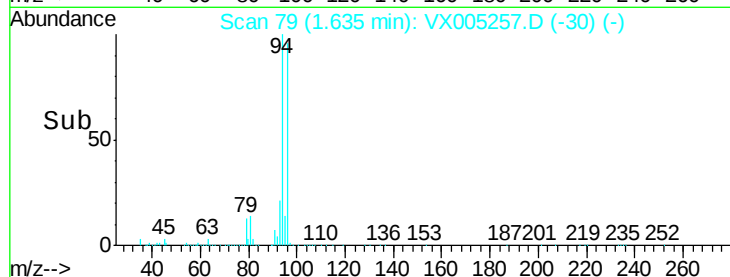
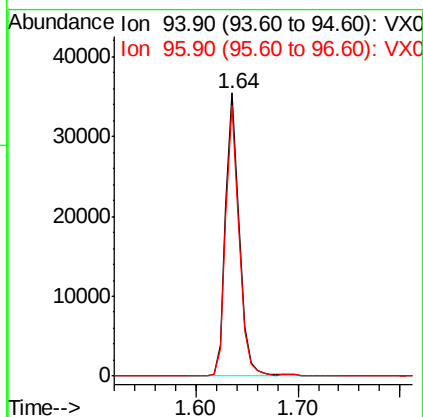
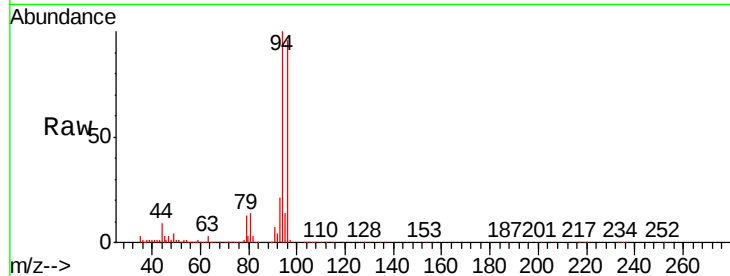
Ion Ratio Lower Upper

94 100

96 95.5 79.5 119.3

Manual Integrations
APPROVED

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10/12/2018 2:34:12 PM



#6

Chloroethane

Concen: 19.41 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX005257.D

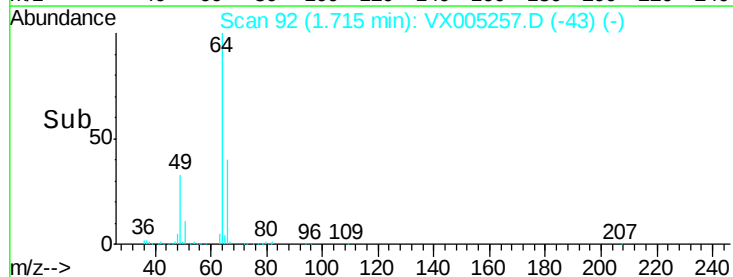
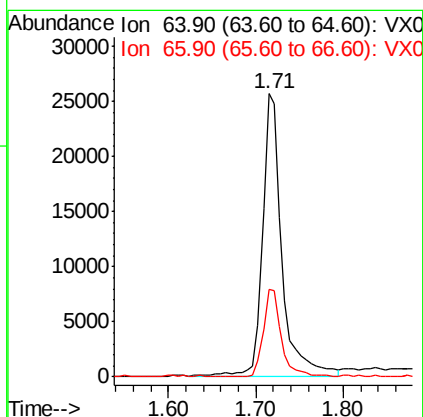
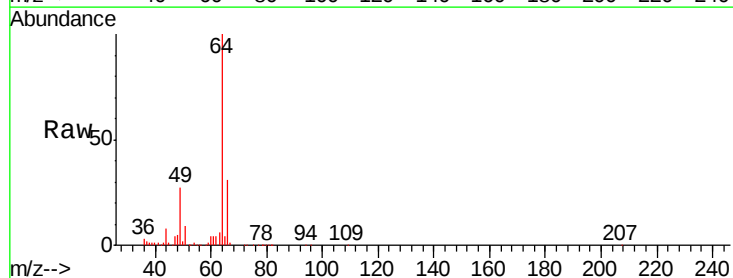
Acq: 11 Oct 2018 16:46

Tgt Ion: 64 Resp: 39638

Ion Ratio Lower Upper

64 100

66 30.8 23.8 35.6





#7

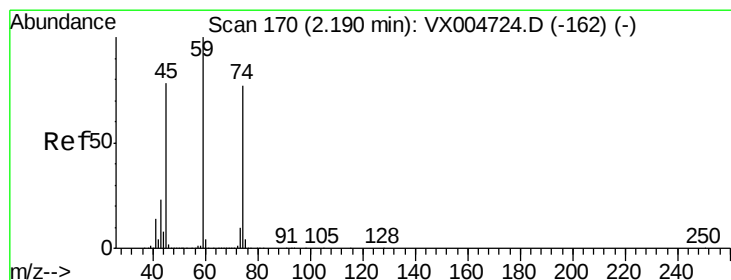
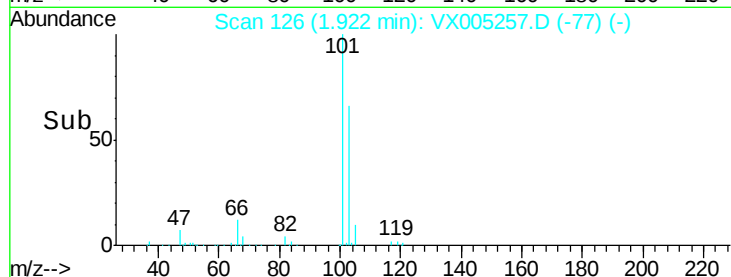
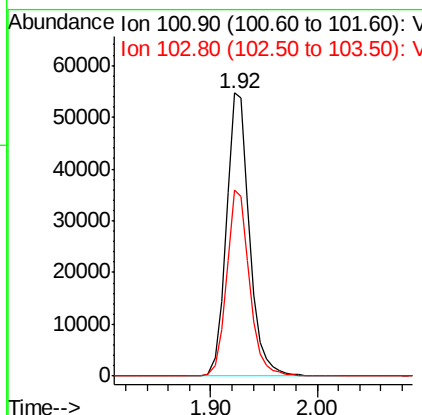
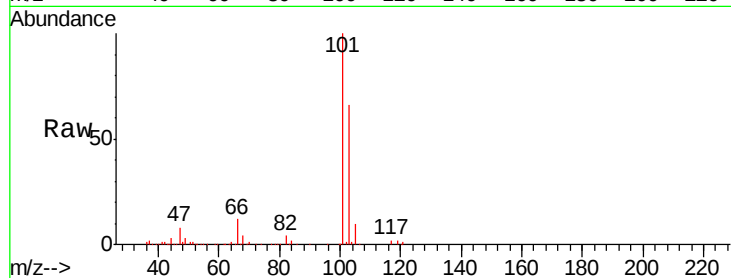
Trichlorofluoromethane
 Concen: 19.13 ug/l
 RT: 1.92 min Scan# 126
 Delta R.T. 0.00 min
 Lab File: VX005257.D
 Acq: 11 Oct 2018 16:46

Instrument :
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 ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.6	48.4	72.6

Manual Integrations
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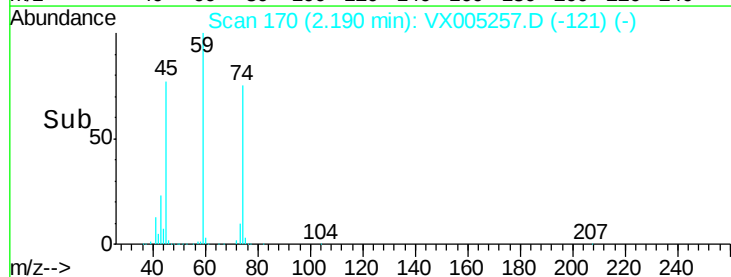
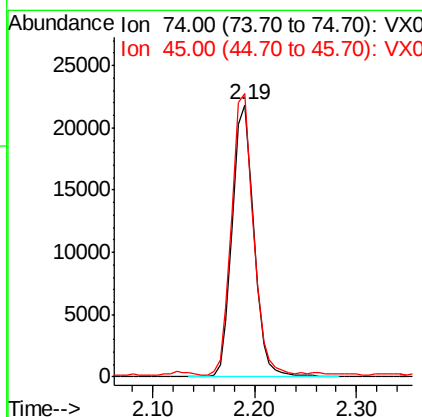
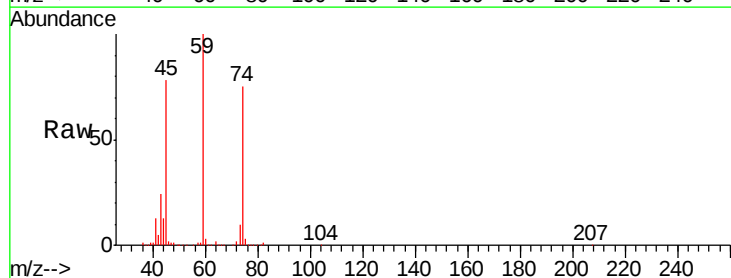
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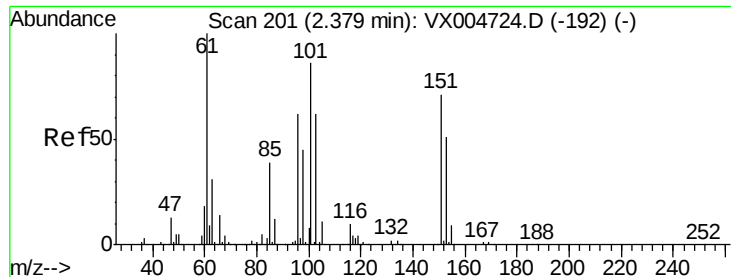


#8

Diethyl Ether
 Concen: 17.05 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. 0.00 min
 Lab File: VX005257.D
 Acq: 11 Oct 2018 16:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.6	52.5	157.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.17 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX005257.D

Acq: 11 Oct 2018 16:46

Instrument :

MSVOA_X

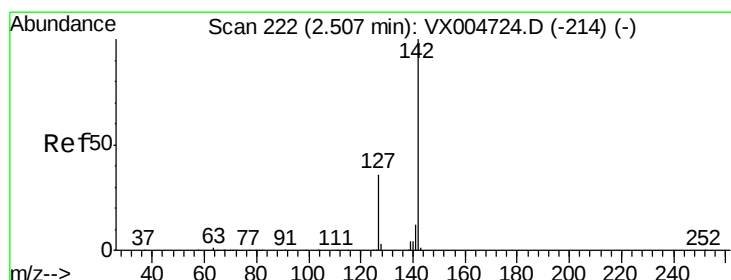
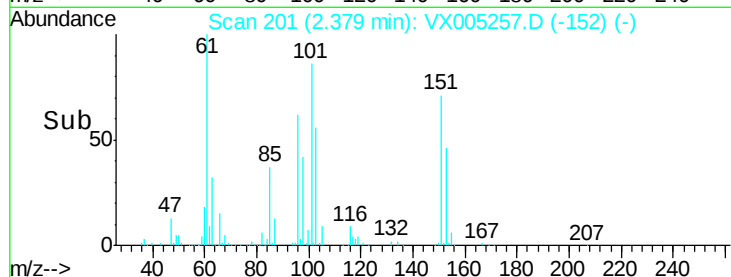
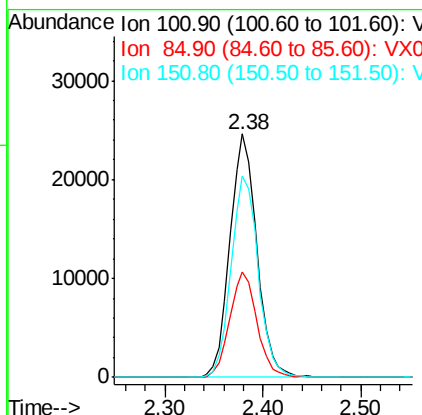
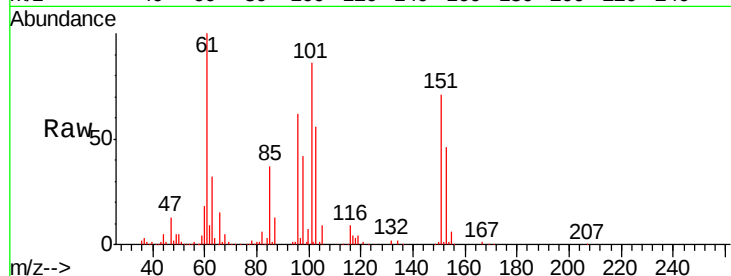
ClientSampleId :

VX1011WBS01

Tgt Ion:	101	Resp:	47185
Ion Ratio	Lower	Upper	
101	100		
85	43.5	35.9	53.9
151	83.4	66.6	100.0

Manual Integrations
APPROVED

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10/12/2018 2:34:12 PM



#10

Methyl Iodide

Concen: 12.56 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX005257.D

Acq: 11 Oct 2018 16:46

Tgt Ion:	142	Resp:	41389
Ion Ratio	Lower	Upper	
142	100		
127	43.4	30.1	45.1
141	14.5	10.1	15.1

