

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021919\
 Data File : VX007611.D
 Acq On : 19 Feb 2019 14:17
 Operator : JC/SP
 Sample : K1528-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Feb 20 04:03:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	485428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	744237	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	714959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	393101	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	249765	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
35) Dibromofluoromethane	5.51	113	234635	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
50) Toluene-d8	8.71	98	905754	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.13	95	345495	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	248	0.219	ug/l #	67
5) Bromomethane	1.65	94	615	Below Cal		85
11) Tert butyl alcohol	3.04	59	324	0.304	ug/l #	73
13) Acrolein	2.40	56	78236	156.467	ug/l #	77
14) Allyl chloride	2.84	41	512348	67.843	ug/l #	61
15) Acrylonitrile	3.17	53	124100	47.047	ug/l #	39
16) Acetone	2.45	43	21989	9.317	ug/l	92
17) Carbon Disulfide	2.57	76	2237	2.298	ug/l #	64
18) Methyl Acetate	2.85	43	1220143	196.652	ug/l #	51
20) Methylene Chloride	2.84	84	3725	0.382	ug/l #	1
23) Vinyl Acetate	3.74	43	20517	1.780	ug/l #	74
24) 1,1-Dichloroethane	3.67	63	2005	0.251	ug/l #	84
25) 2-Butanone	4.70	43	13637	4.060	ug/l	92
26) 2,2-Dichloropropane	4.40	77	21050	3.465	ug/l #	53
30) Chloroform	5.27	83	84592	10.162	ug/l #	29
31) Cyclohexane	5.59	56	767915	107.179	ug/l #	93
36) 1,1-Dichloropropene	5.66	75	29929	4.482	ug/l #	50
37) Ethyl Acetate	4.89	43	4047	0.600	ug/l #	1
38) Carbon Tetrachloride	5.67	117	42713	6.593	ug/l #	17
39) Methylcyclohexane	7.46	83	1787254	221.217	ug/l	96
41) Methacrylonitrile	5.06	41	23525	6.503	ug/l #	47
43) Isopropyl Acetate	6.46	43	57517	5.520	ug/l #	64
44) Trichloroethene	7.21	130	10538	1.779	ug/l	93
45) 1,2-Dichloropropane	7.46	63	19503	3.957	ug/l #	1
46) Dibromomethane	7.63	93	2856	0.797	ug/l #	1
47) Bromodichloromethane	7.84	83	10566	1.741	ug/l #	80
48) Methyl methacrylate	7.73	41	188916	36.249	ug/l #	52
49) 1,4-Dioxane	7.77	88	171	8.312	ug/l #	25
51) 4-Methyl-2-Pentanone	8.66	43	23873	3.481	ug/l #	63
52) Toluene	8.79	92	5191	0.409	ug/l	86
55) 1,1,2-Trichloroethane	9.16	97	148292	28.032	ug/l #	18
56) Ethyl methacrylate	9.16	69	39633	5.409	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.38	63	2116	0.548	ug/l	91
59) 2-Hexanone	9.50	43	8603	1.612	ug/l	94

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

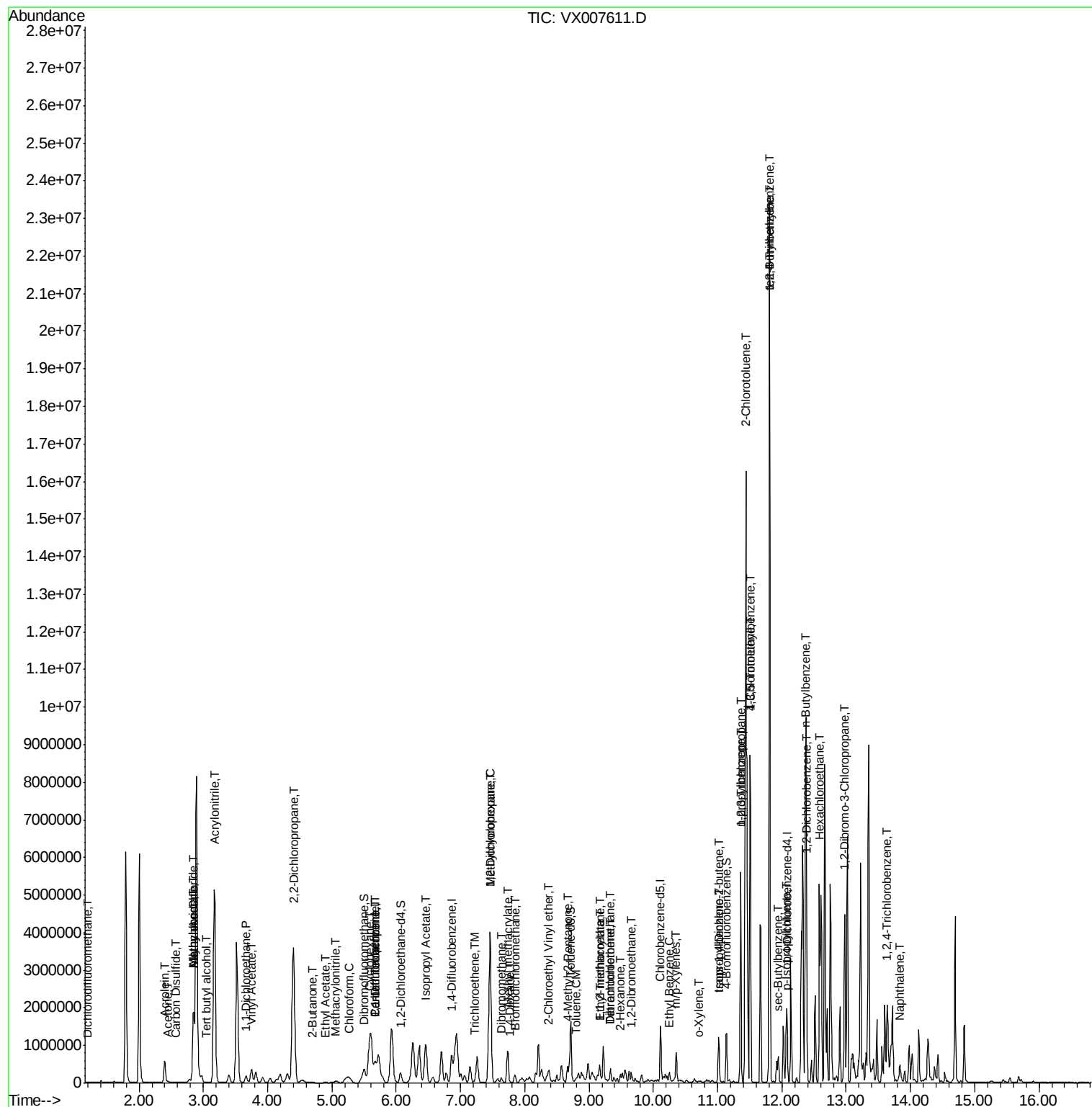
60) Dibromochloromethane	9.34	129	66578	13.307	ug/l #	12
61) 1,2-Dibromoethane	9.67	107	1593	0.284	ug/l #	1
64) Tetrachloroethene	9.34	164	73621	10.925	ug/l	96
67) Ethyl Benzene	10.25	91	140687	5.600	ug/l	100
68) m/p-Xylenes	10.36	106	178849	17.907	ug/l	98
69) o-Xylene	10.70	106	6591	0.686	ug/l	93
73) Isopropylbenzene	11.02	105	597974	22.385	ug/l	98
76) 1,2,3-Trichloropropane	11.36	75	19979	2.613	ug/l #	1
78) n-propylbenzene	11.36	91	3256788	111.180	ug/l	99
79) 2-Chlorotoluene	11.44	91	1456742	81.958	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	3637612	166.445	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.02	75	7219	6.900	ug/l #	64
82) 4-Chlorotoluene	11.51	91	392488	19.084	ug/l #	43
83) tert-Butylbenzene	11.81	119	1242054	57.403	ug/l #	58
84) 1,2,4-Trimethylbenzene	11.81	105	9408296	424.032	ug/l	96
85) sec-Butylbenzene	11.94	105	369564	14.112	ug/l	96
86) p-Isopropyltoluene	12.06	119	228175	9.652	ug/l	98
89) n-Butylbenzene	12.38	91	1440461	70.832	ug/l #	25
90) Hexachloroethane	12.58	117	215351	60.867	ug/l #	5
91) 1,2-Dichlorobenzene	12.39	146	9572	0.712	ug/l	90
92) 1,2-Dibromo-3-Chloropropan	12.97	75	13781	8.141	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.64	180	1913	0.211	ug/l #	1
95) Naphthalene	13.83	128	282943	10.673	ug/l #	92

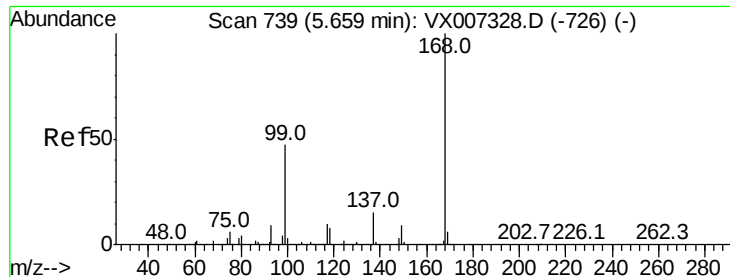
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

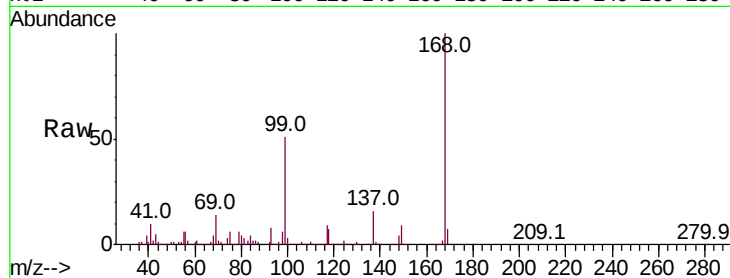
MW-2

Tot Ion:168 Resp: 485428

Ion Ratio Lower Upper

168 100

99 50.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

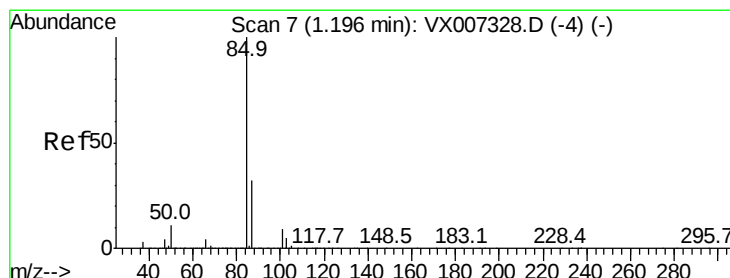
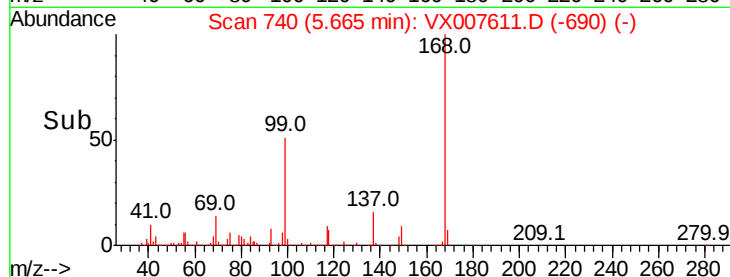
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.219 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007611.D

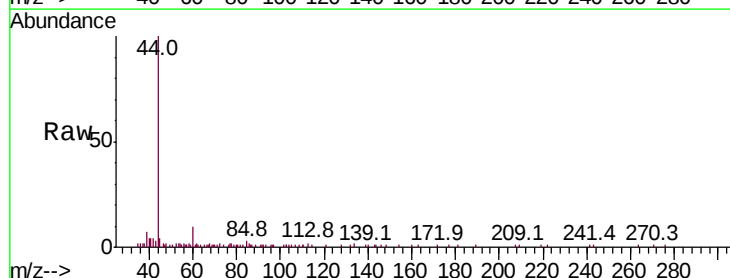
Acq: 19 Feb 2019 14:17

Tgt Ion: 85 Resp: 248

Ion Ratio Lower Upper

85 100

87 50.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

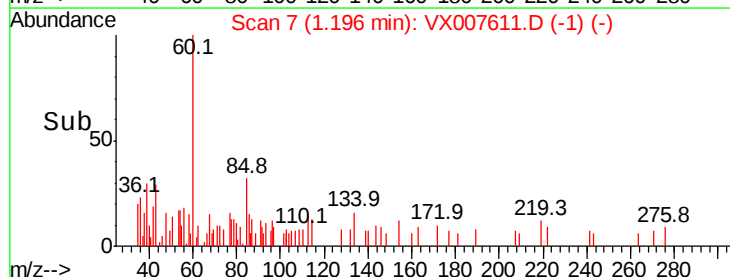
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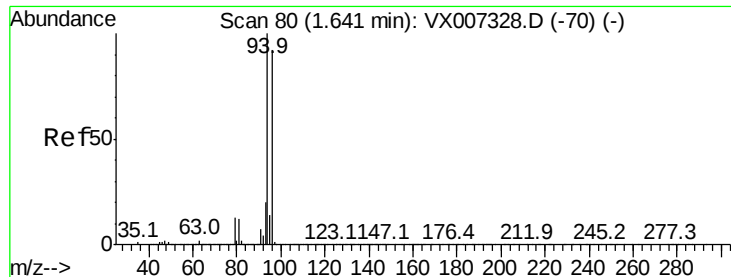
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

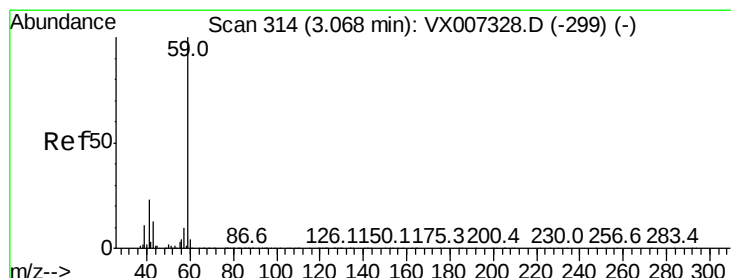
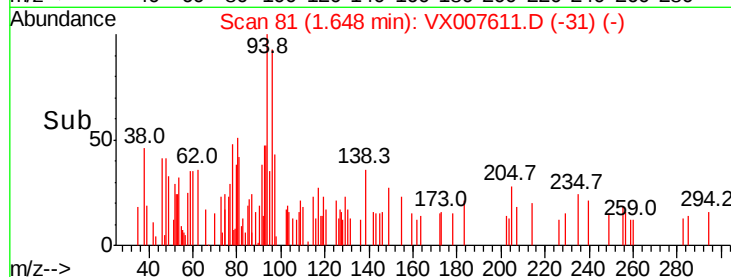
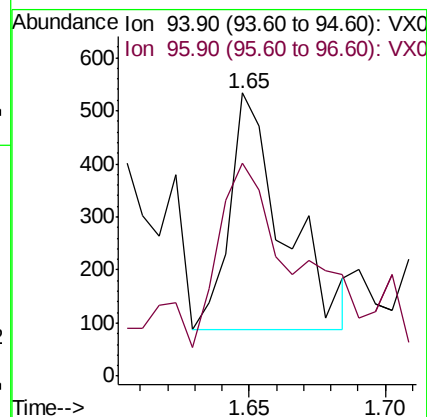
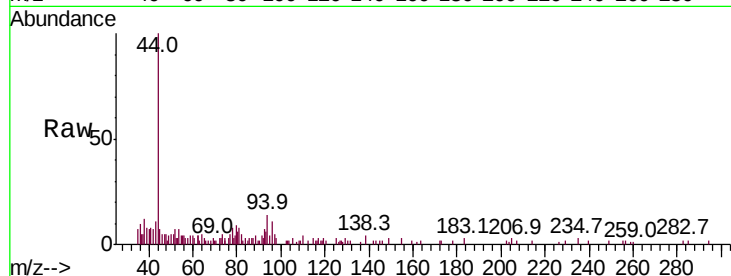
MW-2

Tot Ion: 94 Resp: 615

Ion Ratio Lower Upper

94 100

96 78.0 73.9 110.9



#11

Tert butyl alcohol

Concen: 0.304 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.02 min

Lab File: VX007611.D

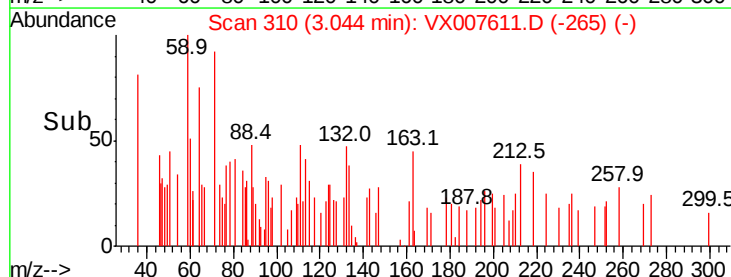
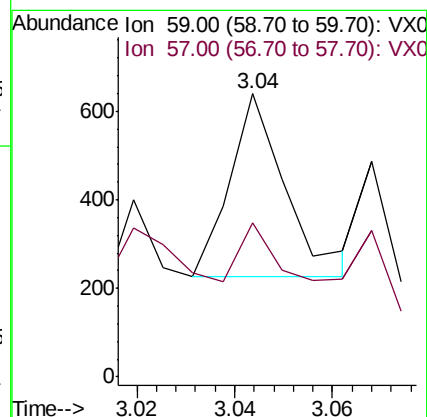
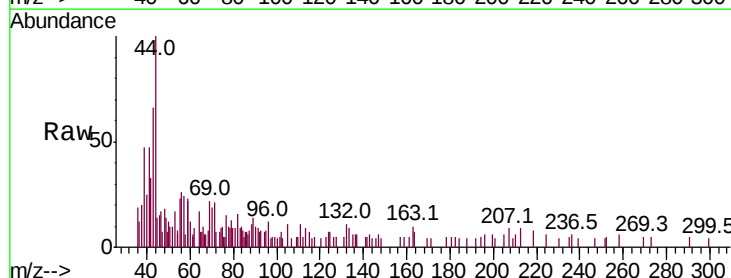
Acq: 19 Feb 2019 14:17

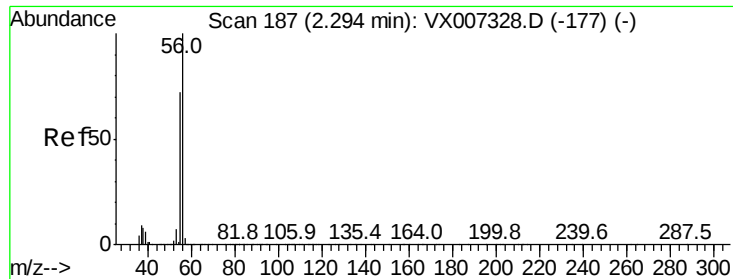
Tgt Ion: 59 Resp: 324

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#13

Acrolein

Concen: 156.467 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.10 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

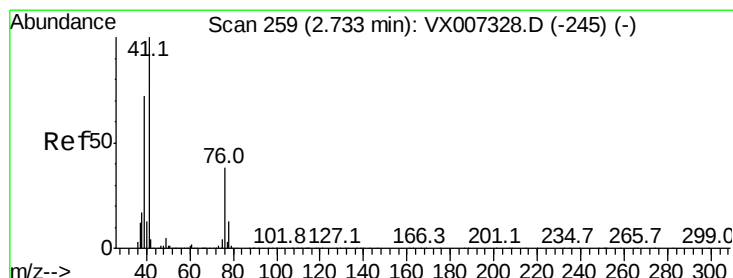
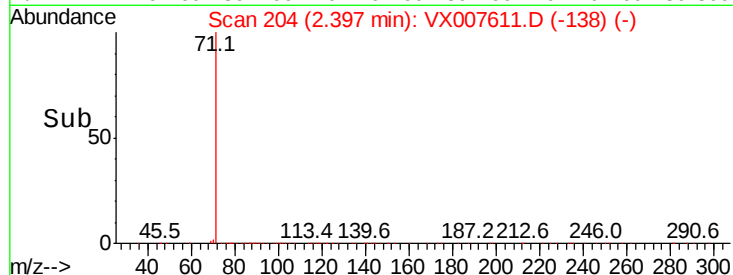
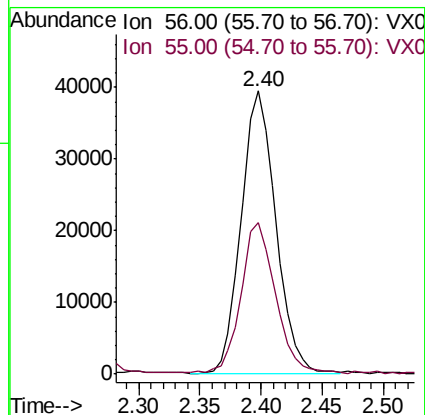
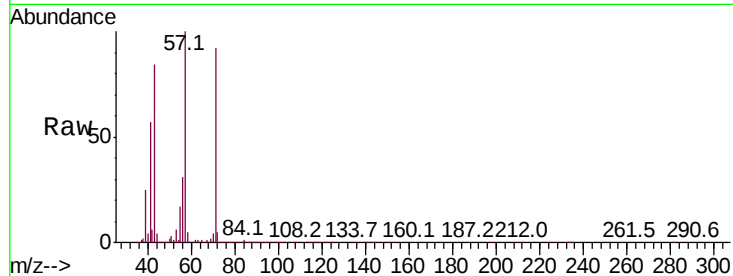
MW-2

Tot Ion: 56 Resp: 78236

Ion Ratio Lower Upper

56 100

55 52.5 56.9 85.3#



#14

Allyl chloride

Concen: 67.843 ug/l

RT: 2.84 min Scan# 277

Delta R.T. 0.11 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

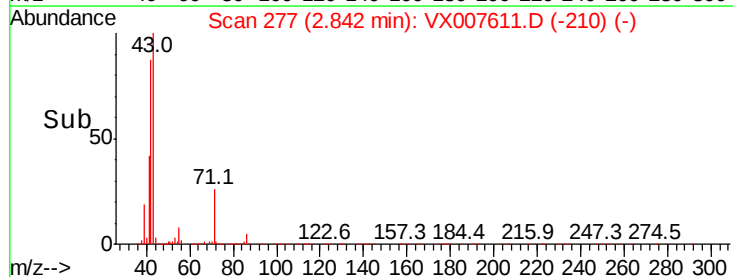
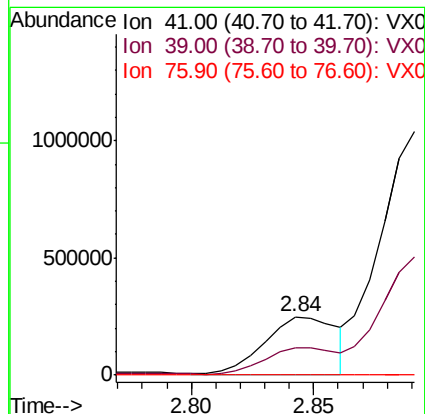
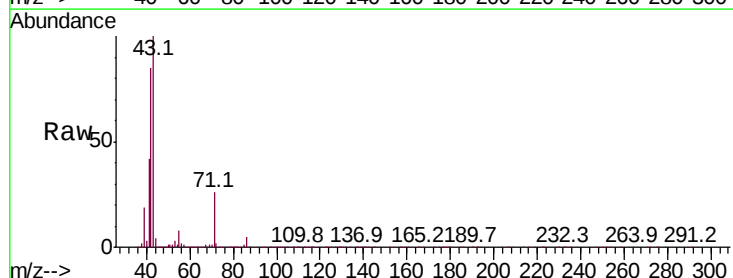
Tgt Ion: 41 Resp: 512348

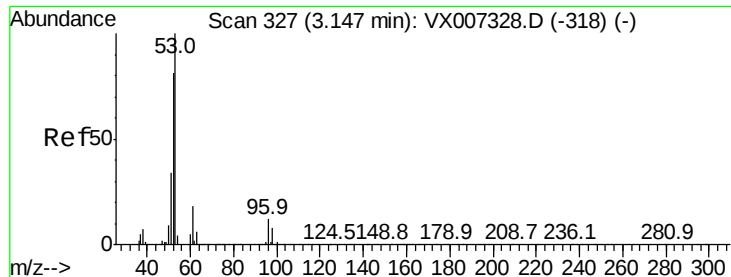
Ion Ratio Lower Upper

41 100

39 44.4 54.1 81.1#

76 0.0 27.8 41.8#





#15

Acrylonitrile

Concen: 47.047 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.02 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

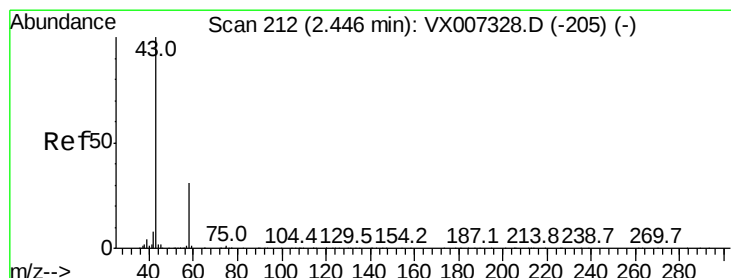
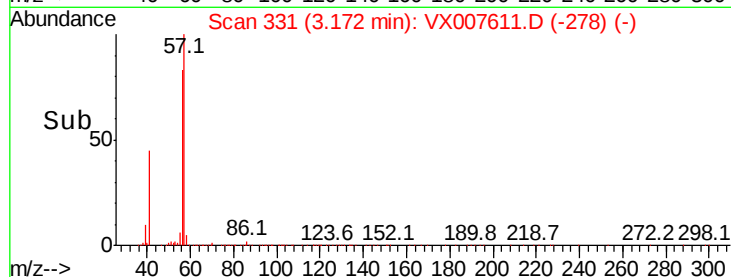
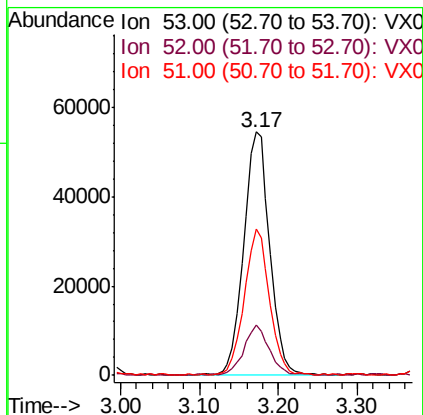
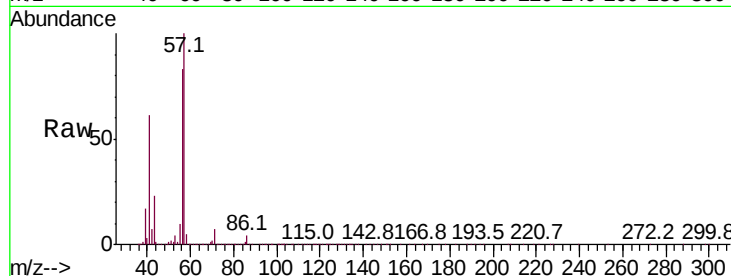
Tot Ion: 53 Resp: 124100

Ion Ratio Lower Upper

53 100

52 19.7 66.4 99.6#

51 57.5 28.4 42.6#



#16

Acetone

Concen: 9.317 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007611.D

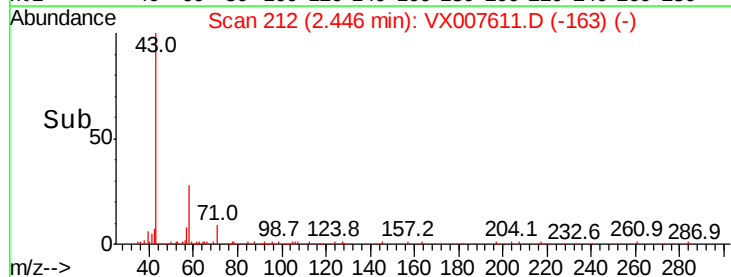
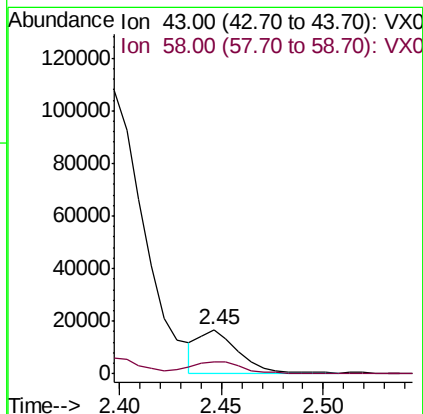
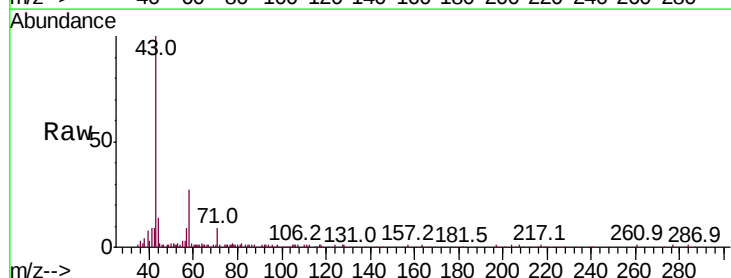
Acq: 19 Feb 2019 14:17

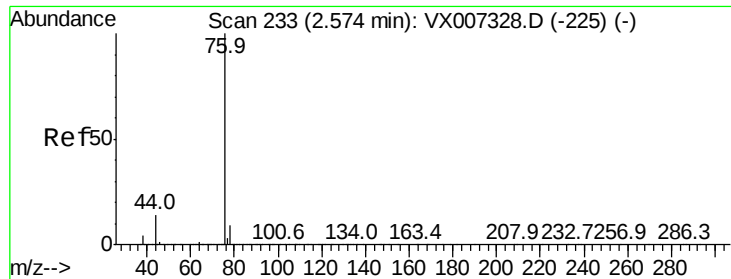
Tgt Ion: 43 Resp: 21989

Ion Ratio Lower Upper

43 100

58 26.4 24.9 37.3





#17

Carbon Disulfide

Concen: 2.298 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

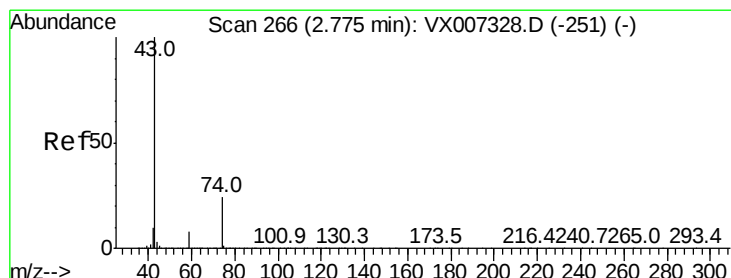
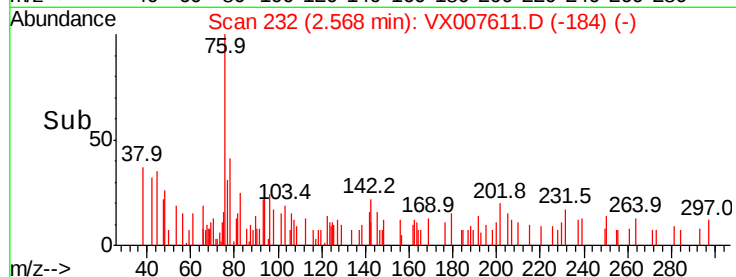
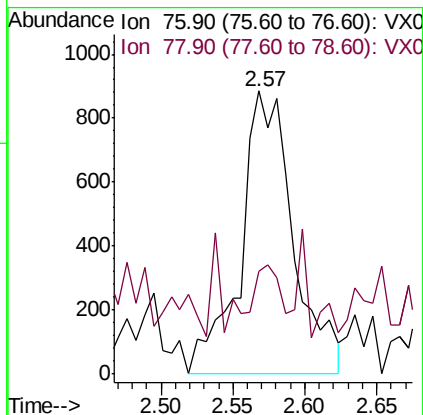
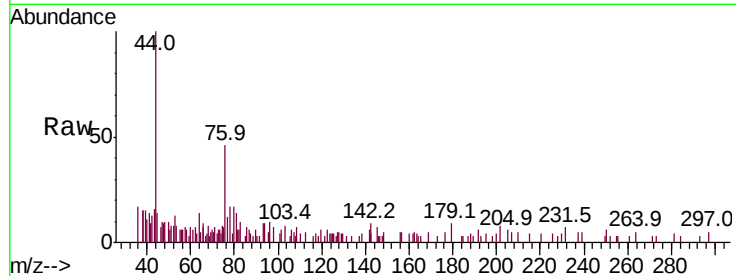
MW-2

Tot Ion: 76 Resp: 2237

Ion Ratio Lower Upper

76 100

78 21.9 7.1 10.7#



#18

Methyl Acetate

Concen: 196.652 ug/l

RT: 2.85 min Scan# 278

Delta R.T. 0.07 min

Lab File: VX007611.D

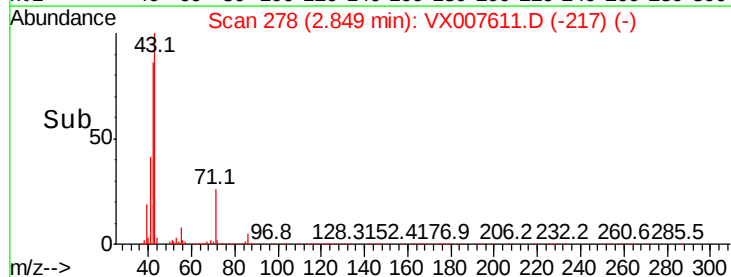
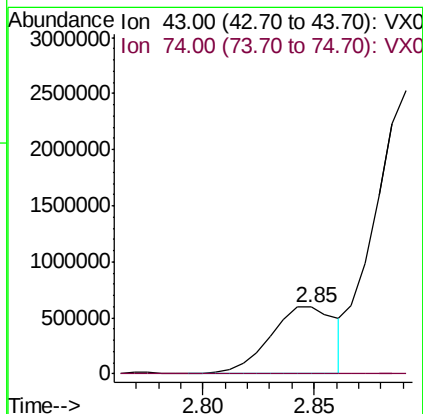
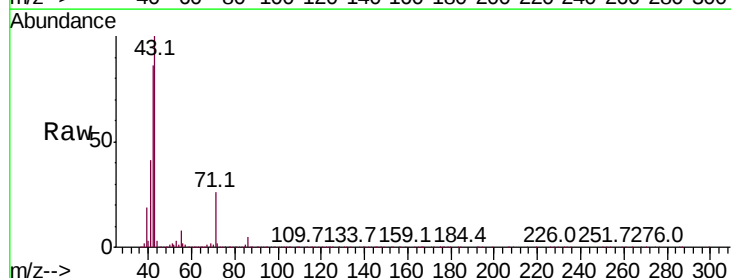
Acq: 19 Feb 2019 14:17

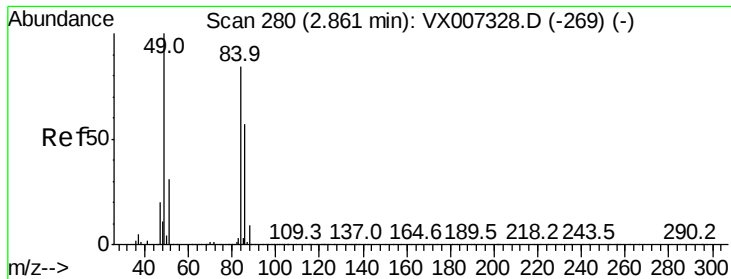
Tgt Ion: 43 Resp: 1220143

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#

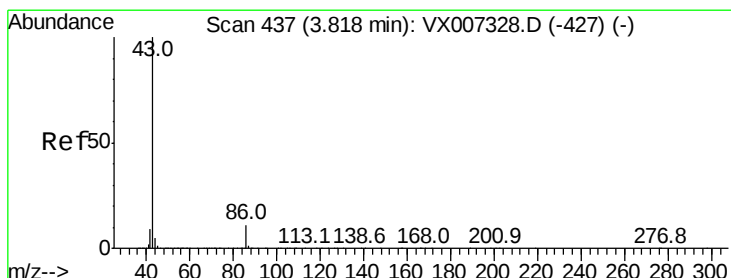
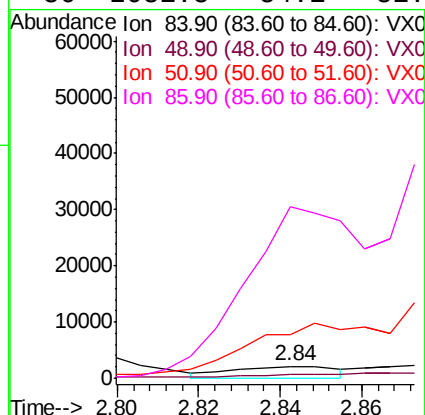
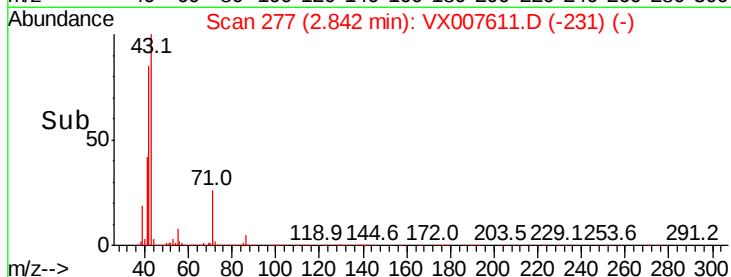
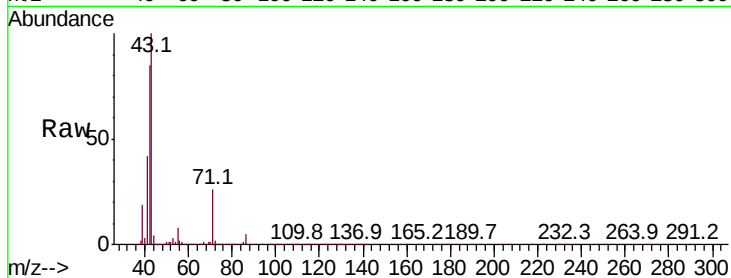




#20
Methylene Chloride
Concen: 0.382 ug/l
RT: 2.84 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

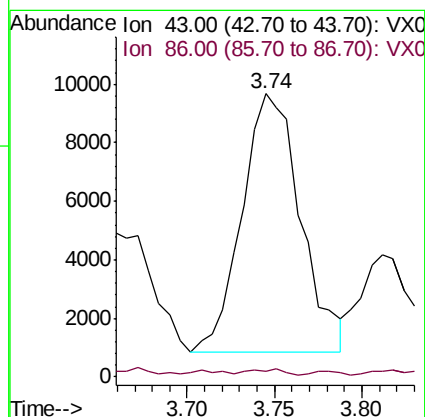
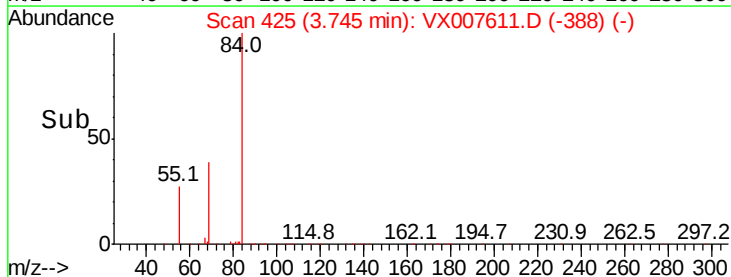
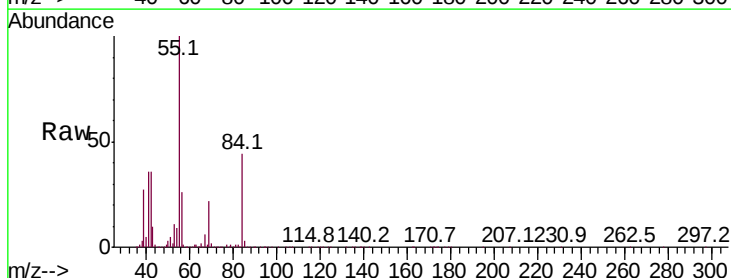
Instrument :
MSVOA_X
ClientSampleId :
MW-2

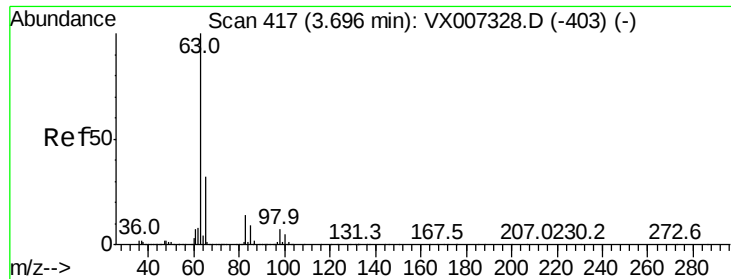
Tot Ion: 84 Resp: 3725
Ion Ratio Lower Upper
84 100
49 30.5 94.8 142.2#
51 478.6 29.8 44.8#
86 2081.8 54.1 81.1#



#23
Vinyl Acetate
Concen: 1.780 ug/l
RT: 3.74 min Scan# 425
Delta R.T. -0.07 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion: 43 Resp: 20517
Ion Ratio Lower Upper
43 100
86 0.9 8.7 13.1#





#24

1,1-Dichloroethane

Concen: 0.251 ug/l

RT: 3.67 min Scan# 413

Delta R.T. -0.02 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

MW-2

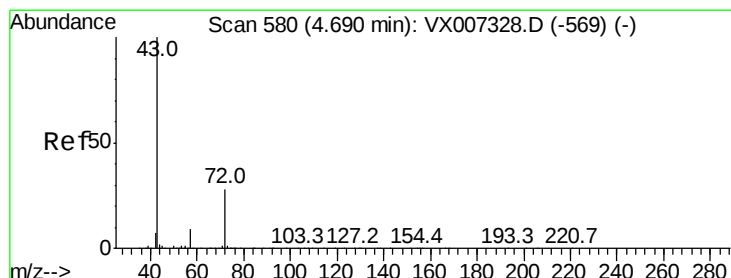
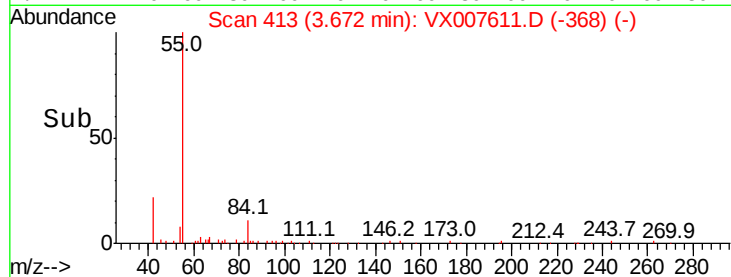
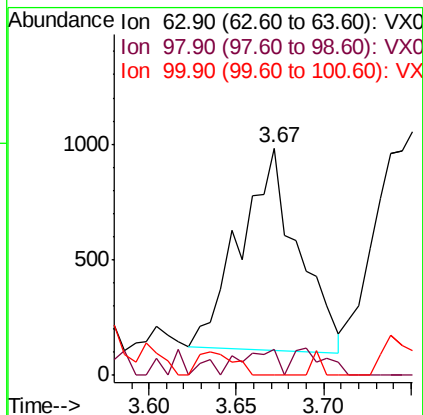
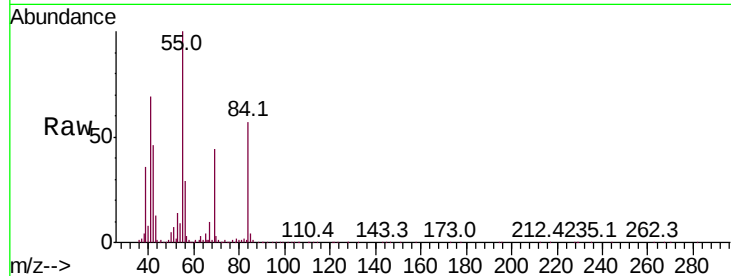
Tot Ion: 63 Resp: 2005

Ion Ratio Lower Upper

63 100

98 12.8 3.6 10.8#

100 0.0 2.5 7.4#



#25

2-Butanone

Concen: 4.060 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007611.D

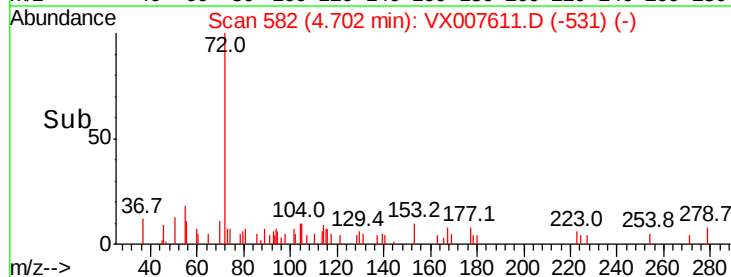
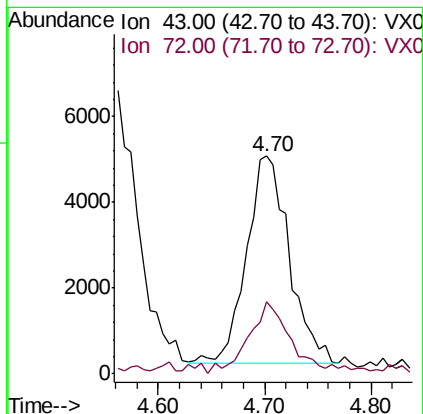
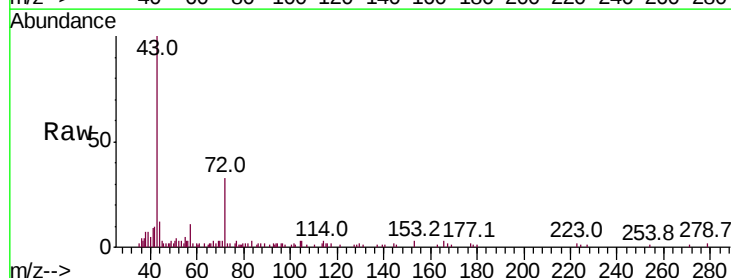
Acq: 19 Feb 2019 14:17

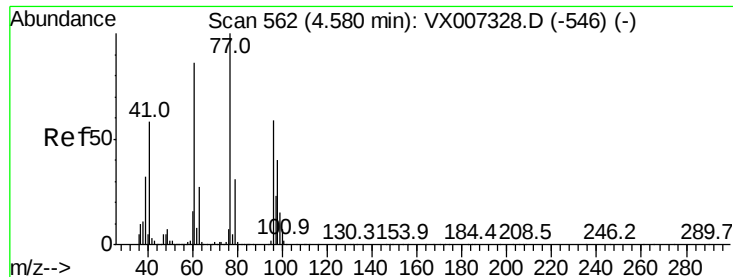
Tgt Ion: 43 Resp: 13637

Ion Ratio Lower Upper

43 100

72 31.9 22.2 33.2

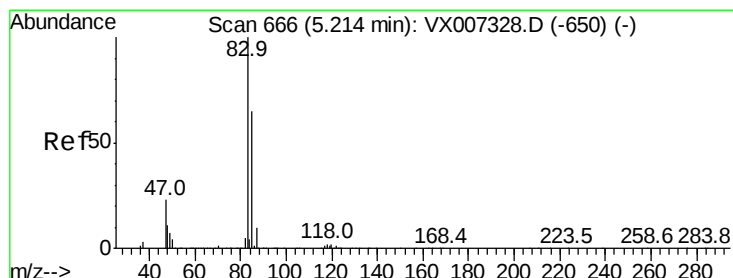
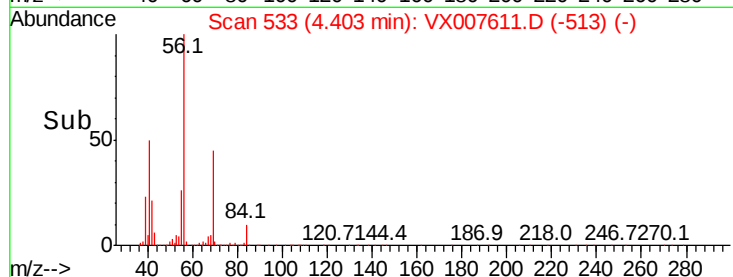
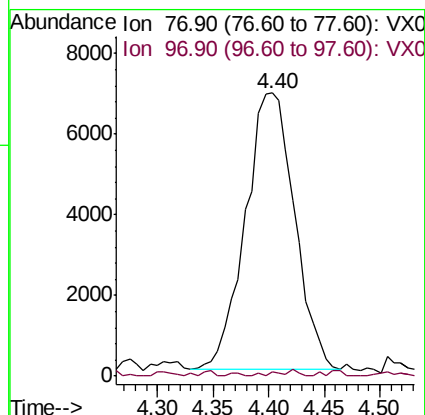
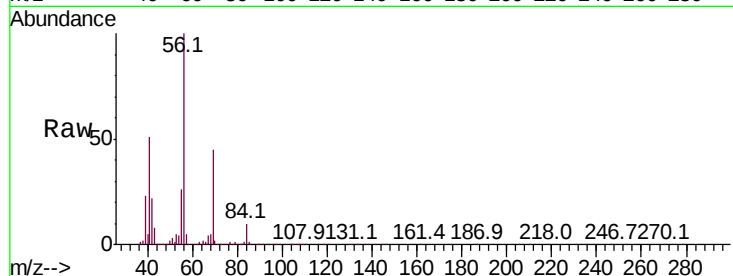




#26
2,2-Dichloropropane
Concen: 3.465 ug/l
RT: 4.40 min Scan# 533
Delta R.T. -0.18 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

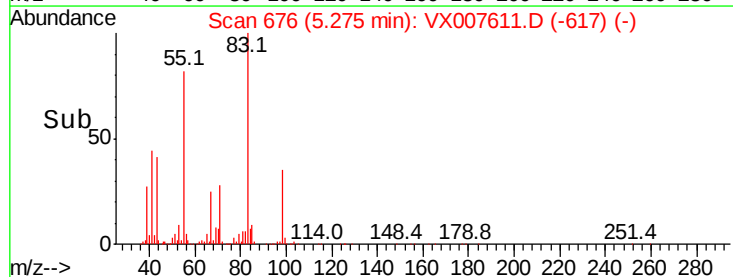
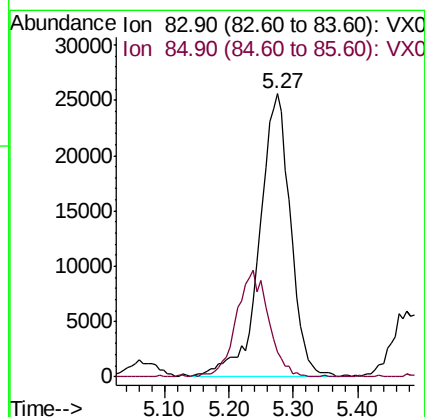
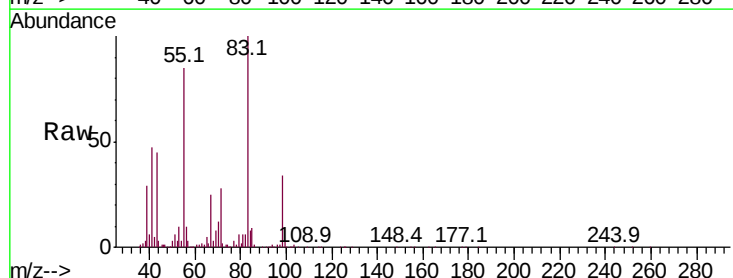
Instrument :
MSVOA_X
ClientSampleId :
MW-2

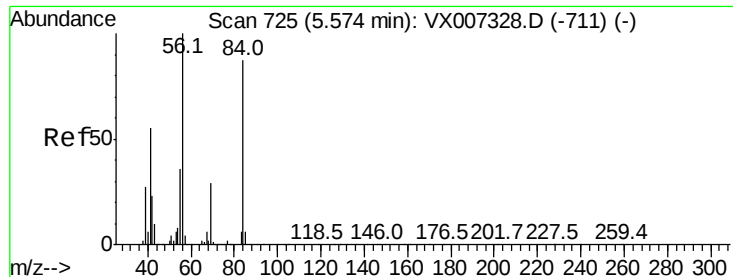
Tot Ion: 77 Resp: 21050
Ion Ratio Lower Upper
77 100
97 1.0 12.1 36.3#



#30
Chloroform
Concen: 10.162 ug/l
RT: 5.27 min Scan# 676
Delta R.T. 0.06 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion: 83 Resp: 84592
Ion Ratio Lower Upper
83 100
85 8.8 51.6 77.4#

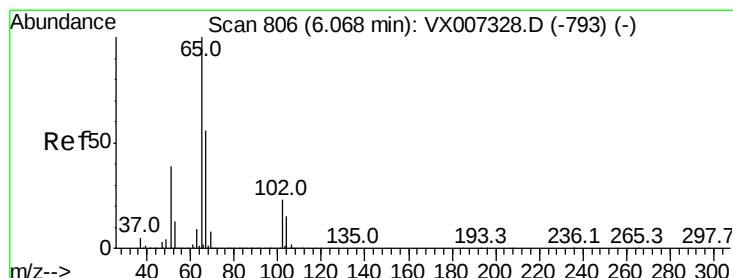
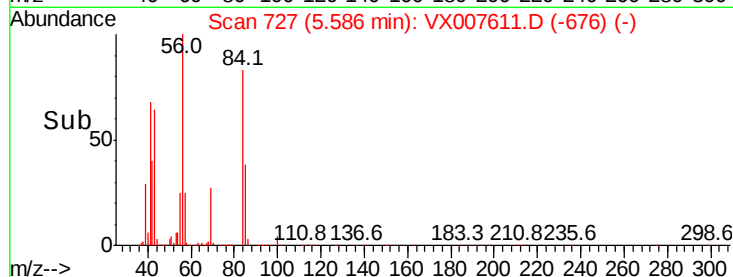
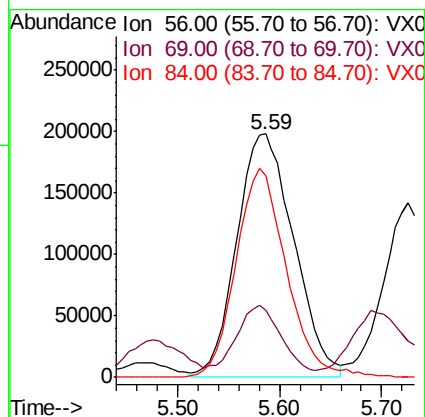
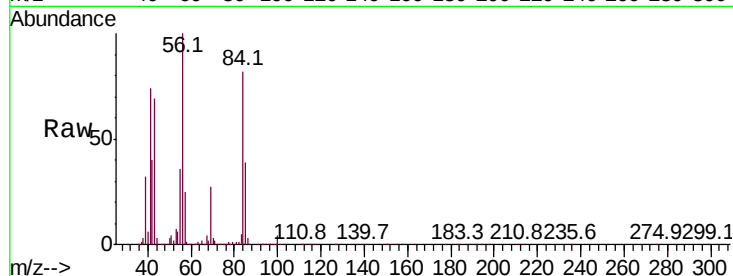




#31
Cyclohexane
Concen: 107.179 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

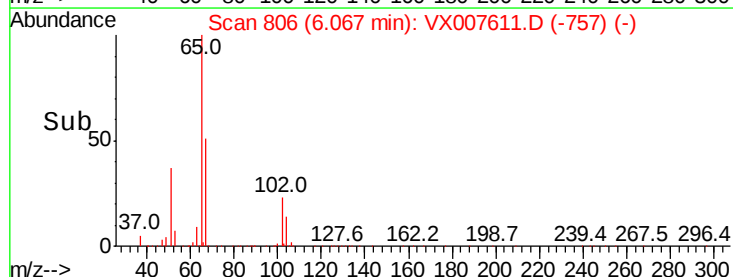
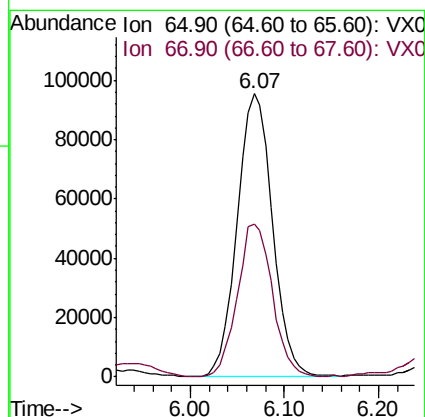
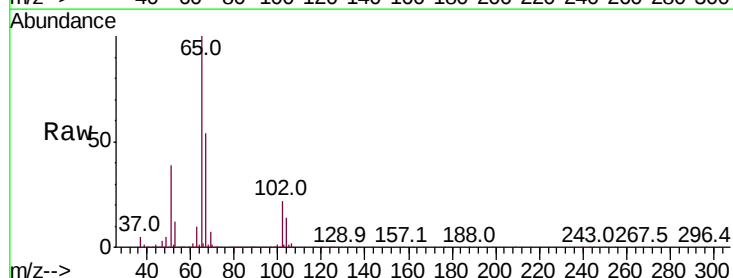
Instrument :
MSVOA_X
ClientSampled :
MW-2

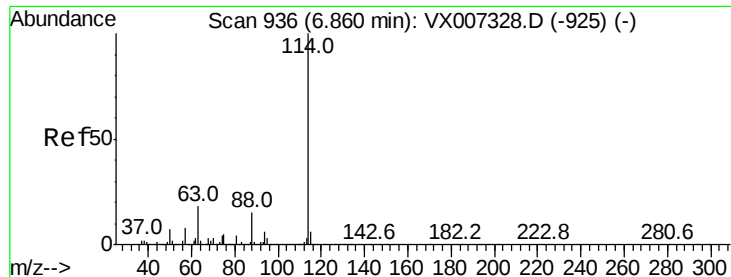
Tot Ion	Ratio	Lower	Upper
56	100		
69	20.4	23.0	34.6#
84	83.4	69.8	104.6



#33
1,2-Dichloroethane-d4
Concen: 48.475 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

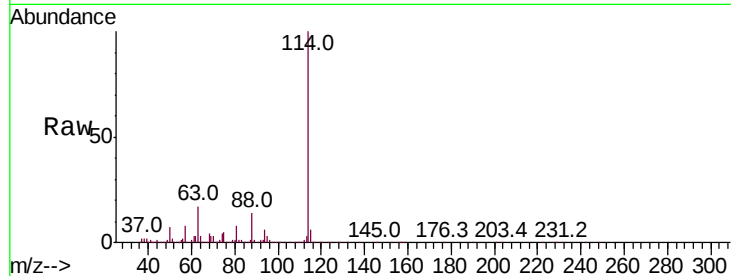
Tot Ion:114 Resp: 744237

Ion Ratio Lower Upper

114 100

63 16.7 0.0 35.6

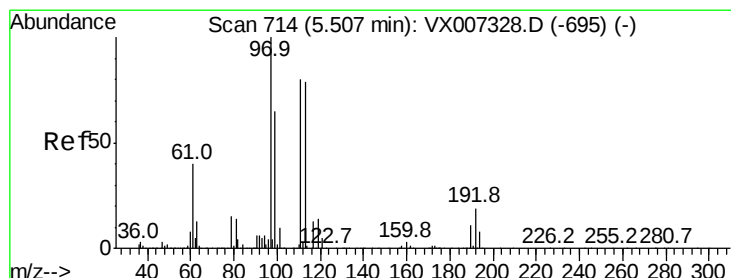
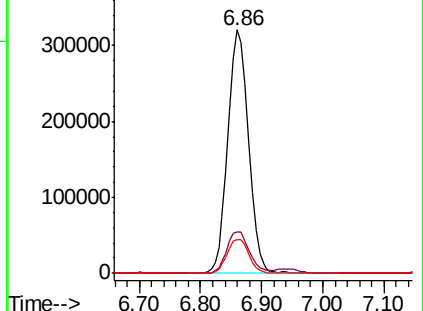
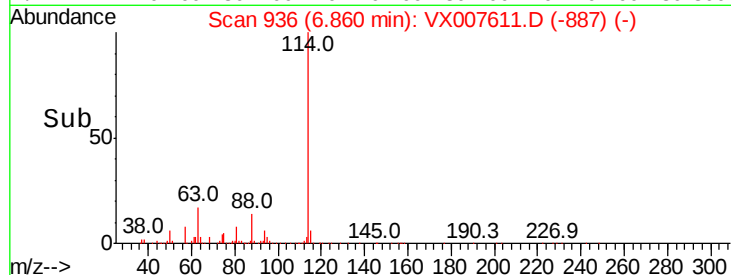
88 13.8 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.453 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

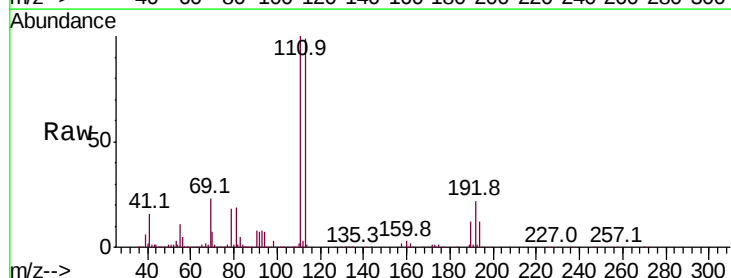
Tgt Ion:113 Resp: 234635

Ion Ratio Lower Upper

113 100

111 102.8 81.8 122.8

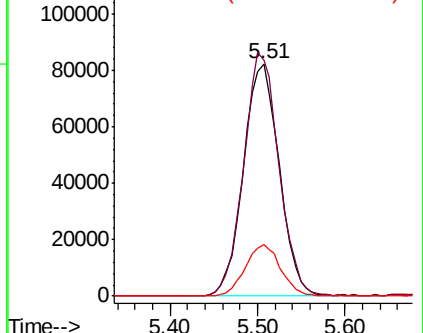
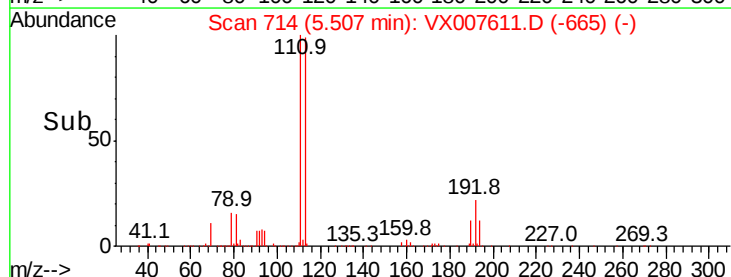
192 22.0 18.5 27.7

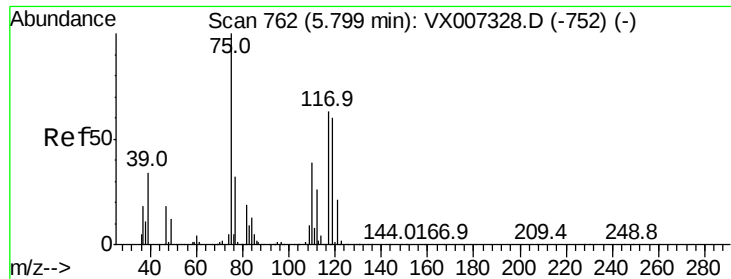


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.482 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

MW-2

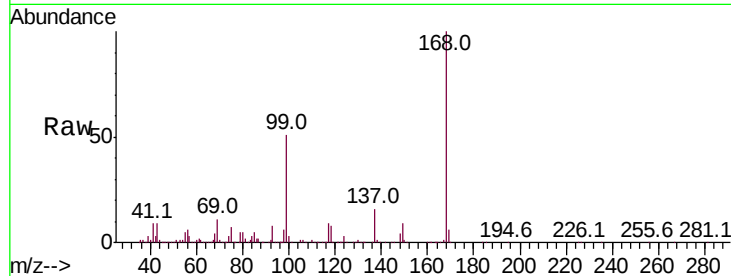
Tot Ion: 75 Resp: 29929

Ion Ratio Lower Upper

75 100

110 12.2 20.0 59.9#

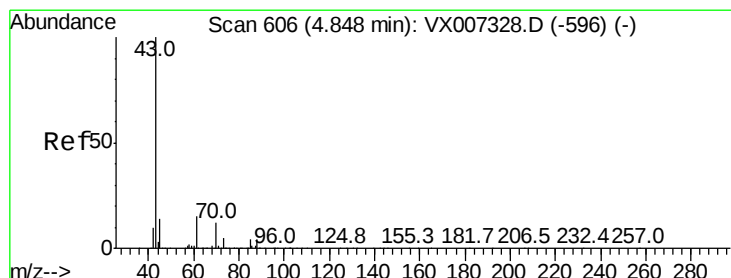
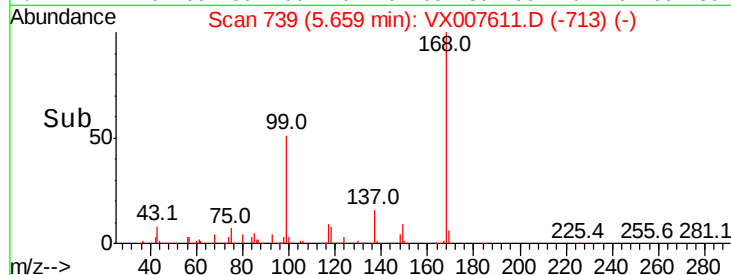
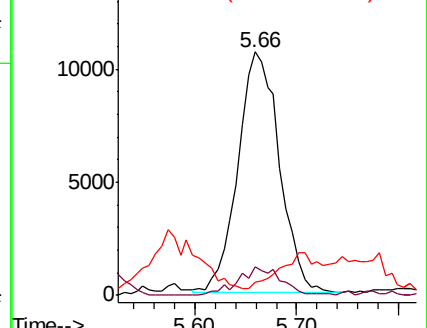
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.600 ug/l

RT: 4.89 min Scan# 613

Delta R.T. 0.04 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

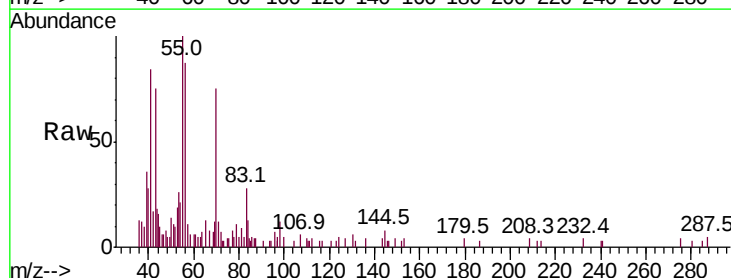
Tgt Ion: 43 Resp: 4047

Ion Ratio Lower Upper

43 100

61 4.9 11.3 16.9#

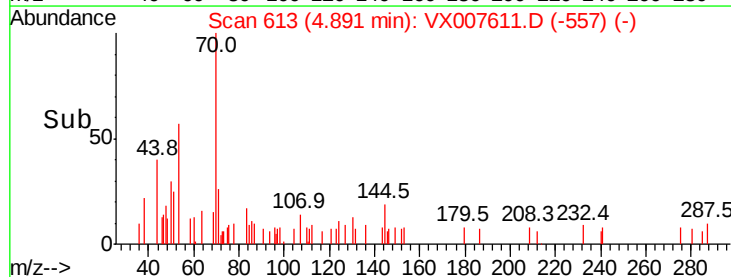
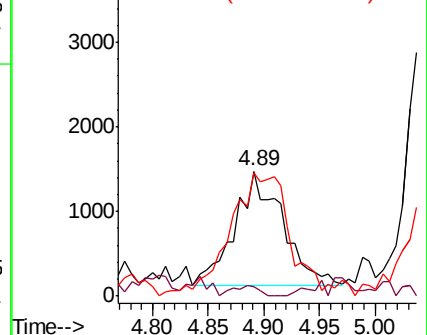
70 134.6 8.6 13.0#

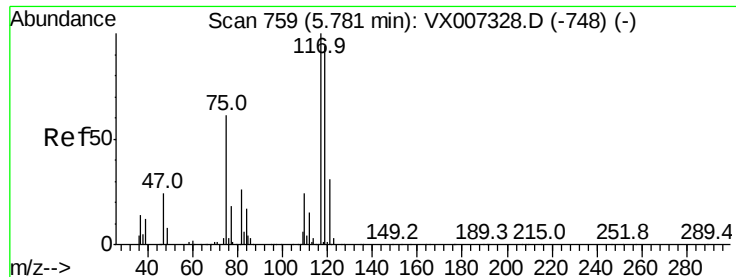


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.593 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

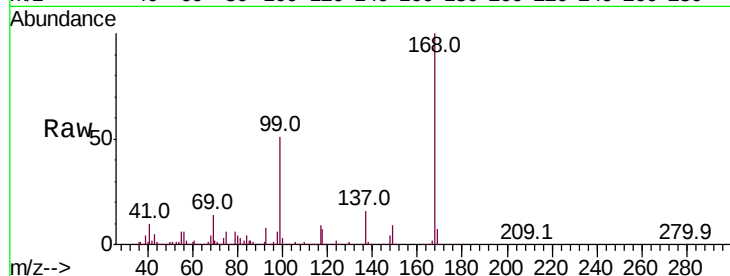
Tot Ion:117 Resp: 42713

Ion Ratio Lower Upper

117 100

119 5.3 75.3 112.9#

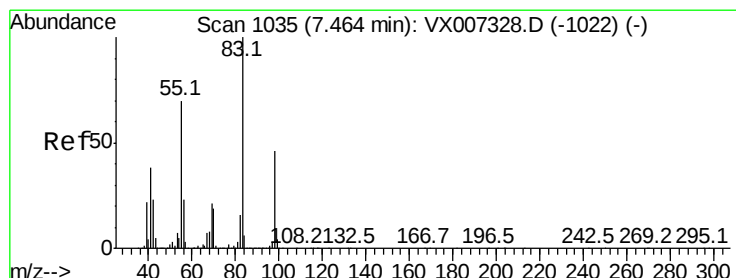
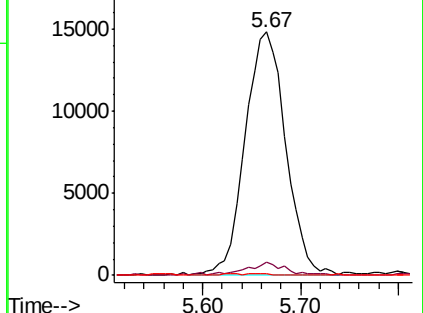
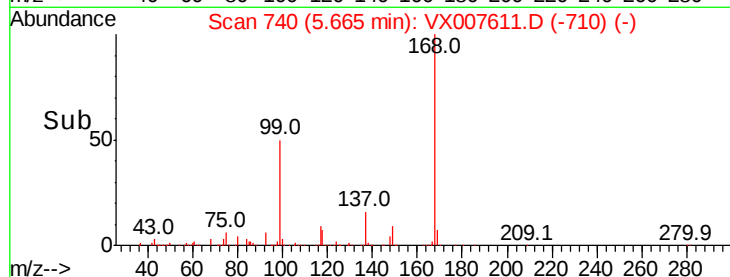
121 0.5 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 221.217 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

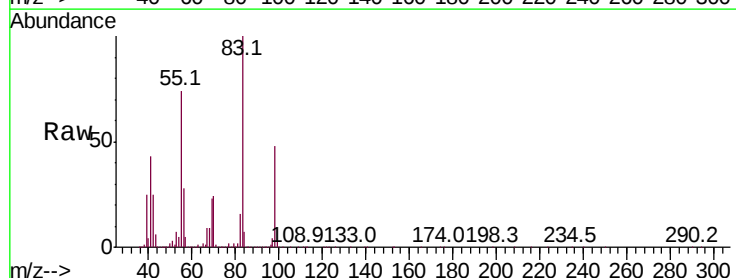
Tgt Ion: 83 Resp: 1787254

Ion Ratio Lower Upper

83 100

55 74.4 56.2 84.2

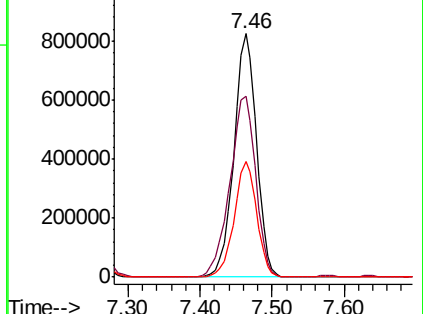
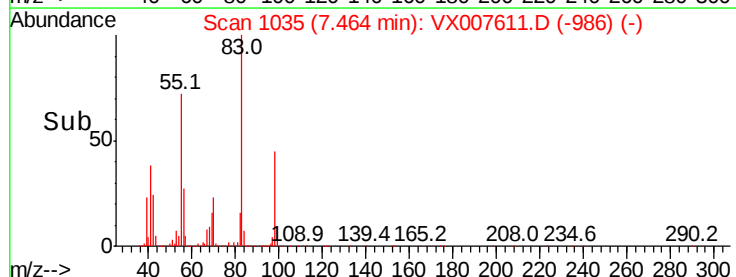
98 47.5 36.8 55.2

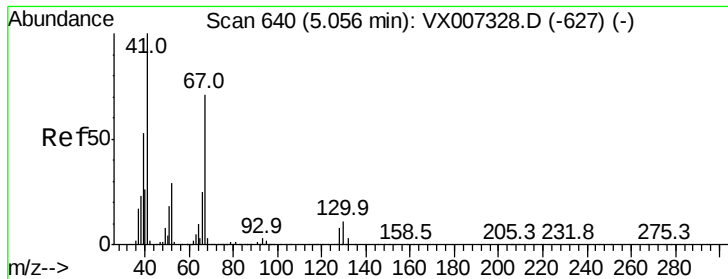


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#41

Methacrylonitrile

Concen: 6.503 ug/l

RT: 5.06 min Scan# 641

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 41 Resp: 23525

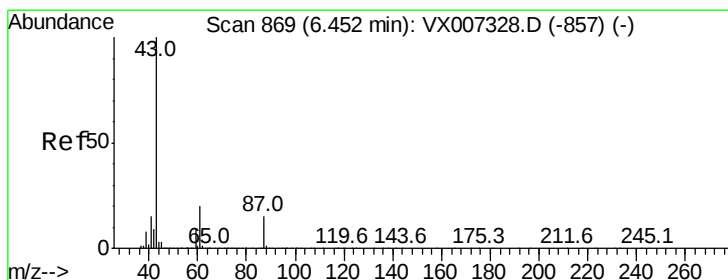
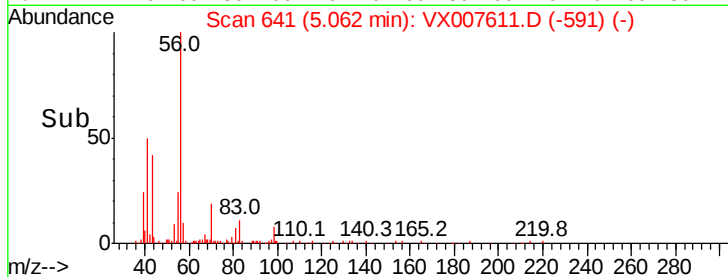
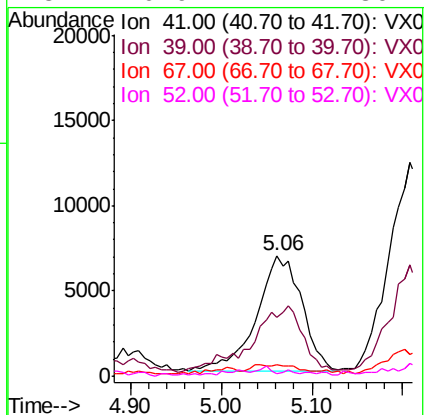
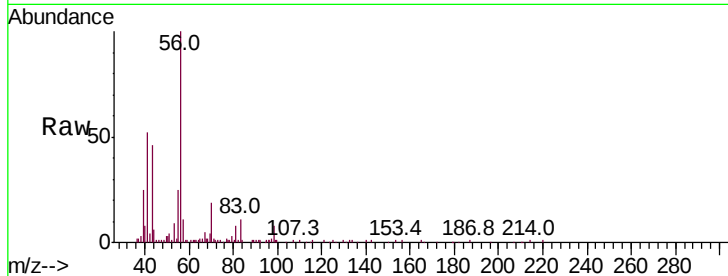
Ion Ratio Lower Upper

41 100

39 53.0 44.5 66.7

67 0.0 60.4 90.6#

52 0.9 24.1 36.1#



#43

Isopropyl Acetate

Concen: 5.520 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

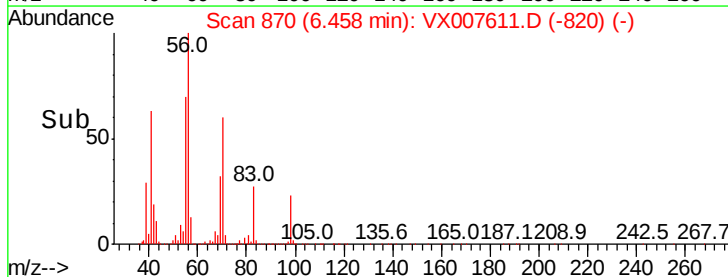
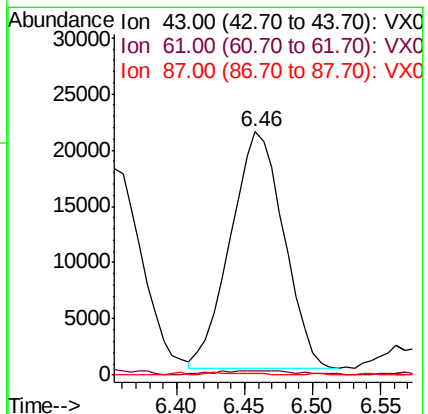
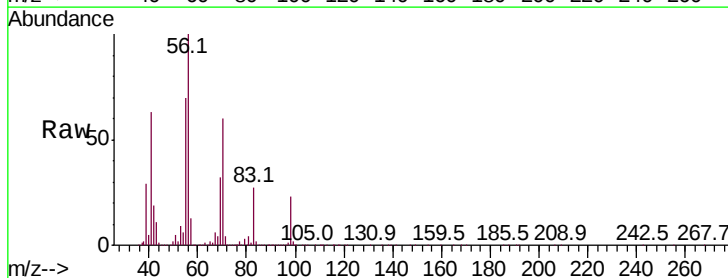
Tgt Ion: 43 Resp: 57517

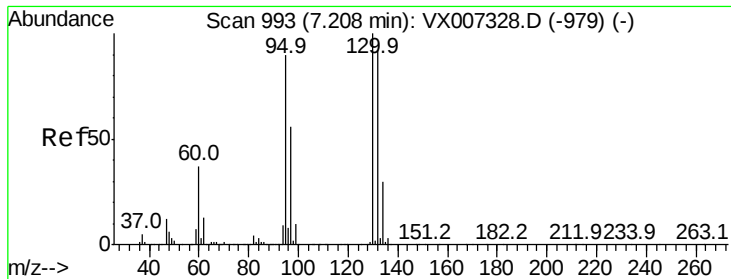
Ion Ratio Lower Upper

43 100

61 3.1 16.1 24.1#

87 0.5 11.5 17.3#





#44

Trichloroethene

Concen: 1.779 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

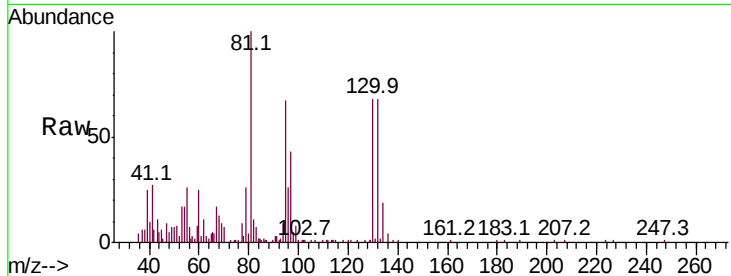
MW-2

Tot Ion:130 Resp: 10538

Ion Ratio Lower Upper

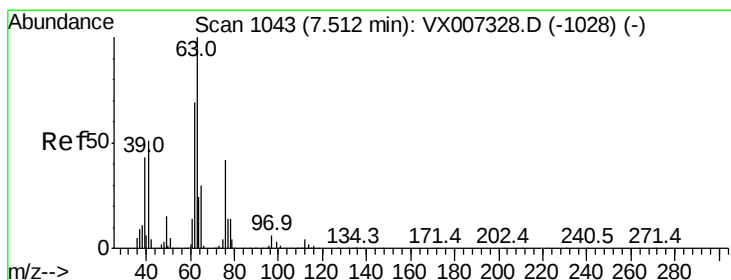
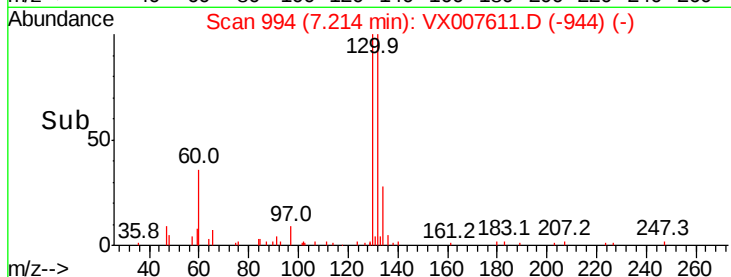
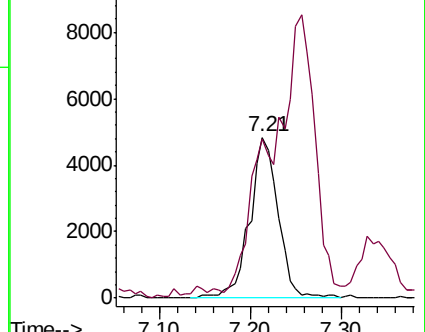
130 100

95 96.2 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): VX007328.D (-979) (-)

Ion 94.90 (94.60 to 95.60): VX007328.D (-979) (-)



#45

1,2-Dichloropropane

Concen: 3.957 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.05 min

Lab File: VX007611.D

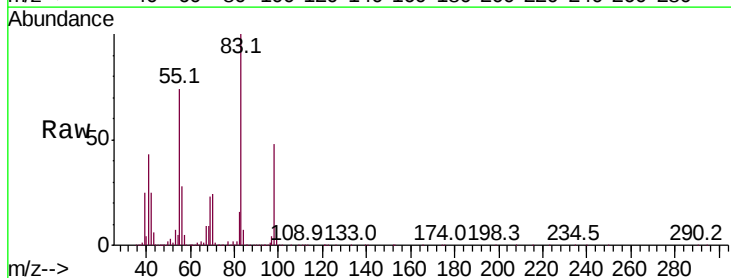
Acq: 19 Feb 2019 14:17

Tgt Ion: 63 Resp: 19503

Ion Ratio Lower Upper

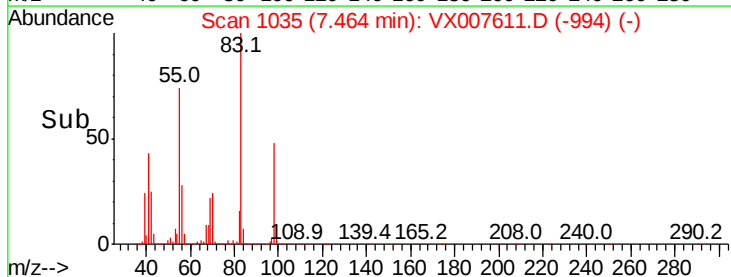
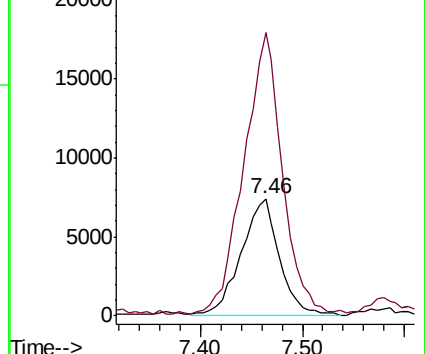
63 100

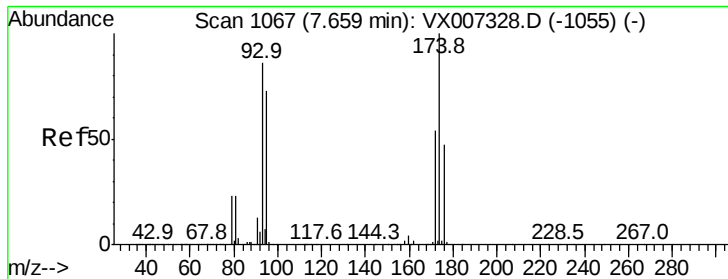
65 239.6 24.2 36.2#



Abundance Ion 62.90 (62.60 to 63.60): VX007328.D (-1028) (-)

Ion 64.90 (64.60 to 65.60): VX007328.D (-1028) (-)





#46

Dibromomethane

Concen: 0.797 ug/l

RT: 7.63 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

MW-2

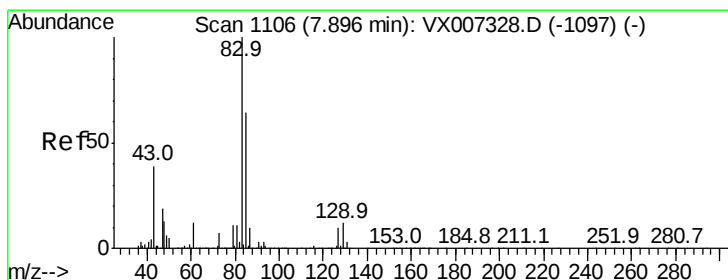
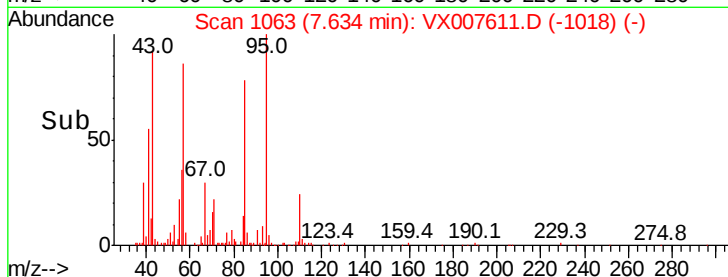
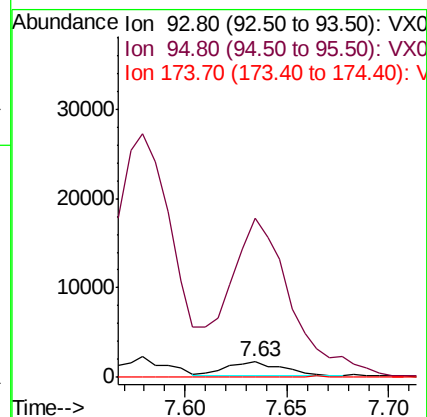
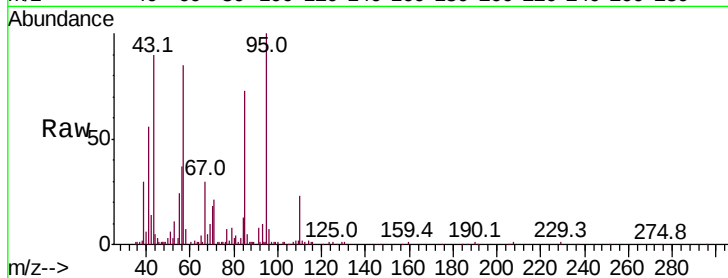
Tot Ion: 93 Resp: 2856

Ion Ratio Lower Upper

93 100

95 1272.1 67.6 101.4#

174 0.0 94.2 141.4#



#47

Bromodichloromethane

Concen: 1.741 ug/l

RT: 7.84 min Scan# 1097

Delta R.T. -0.05 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

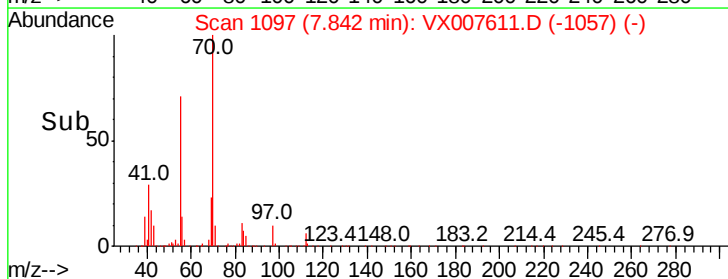
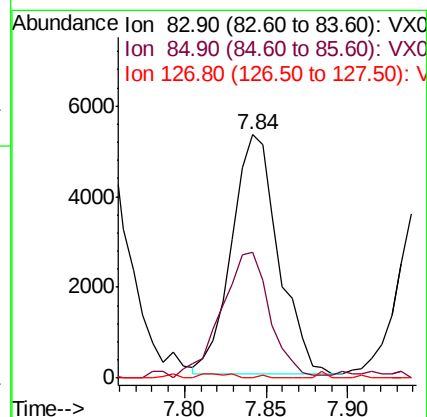
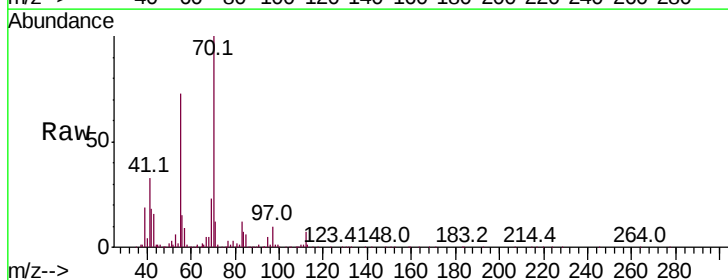
Tgt Ion: 83 Resp: 10566

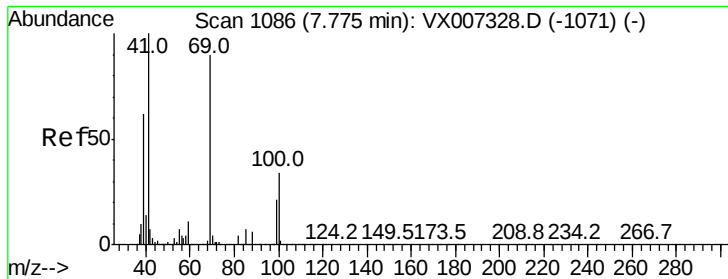
Ion Ratio Lower Upper

83 100

85 49.7 51.4 77.0#

127 0.0 8.1 12.1#





#48

Methvl methacrylate

Concen: 36.249 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.04 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

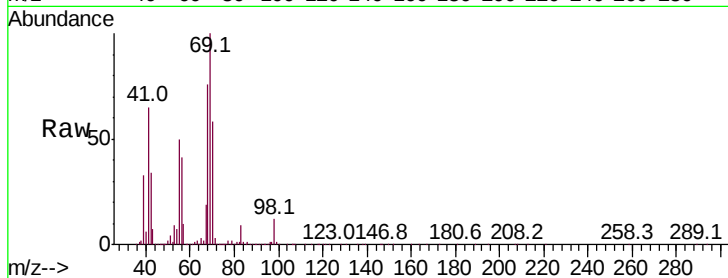
Tot Ion: 41 Resp: 188916

Ion Ratio Lower Upper

41 100

69 153.7 70.2 105.4#

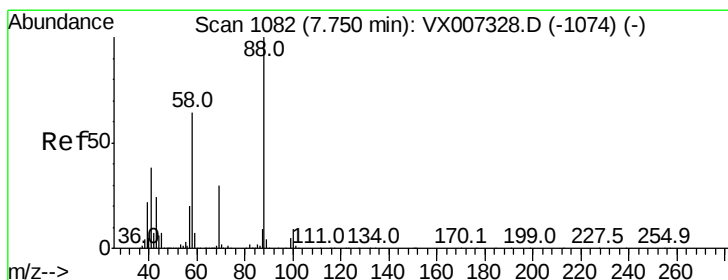
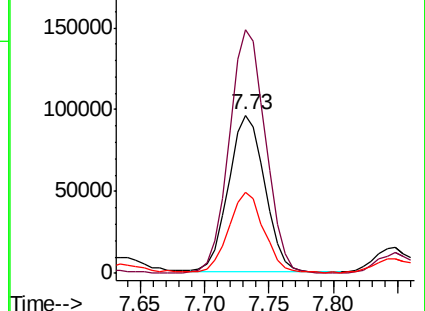
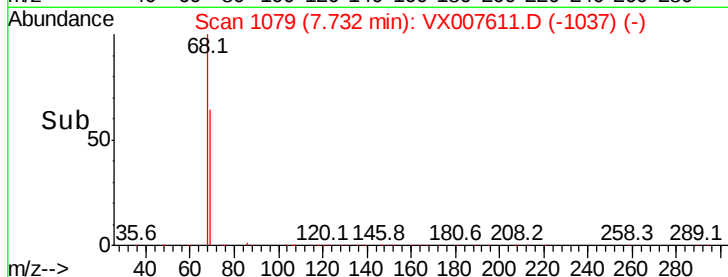
39 49.1 47.4 71.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 8.312 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

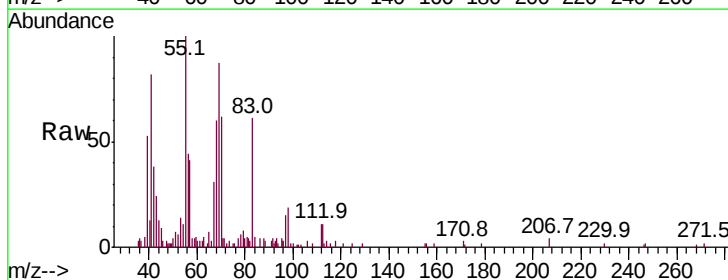
Tgt Ion: 88 Resp: 171

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

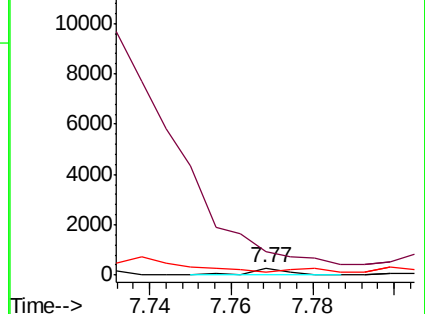
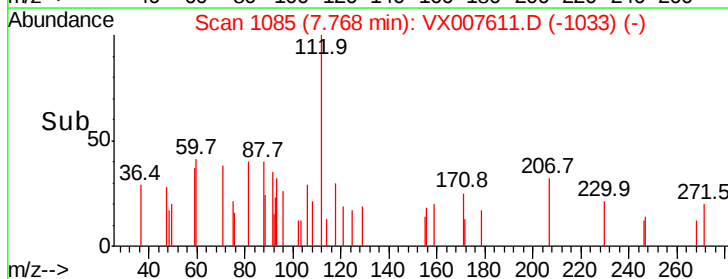
58 0.0 53.0 79.4#

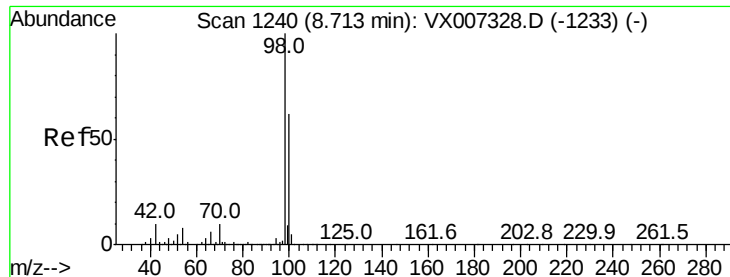


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.414 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

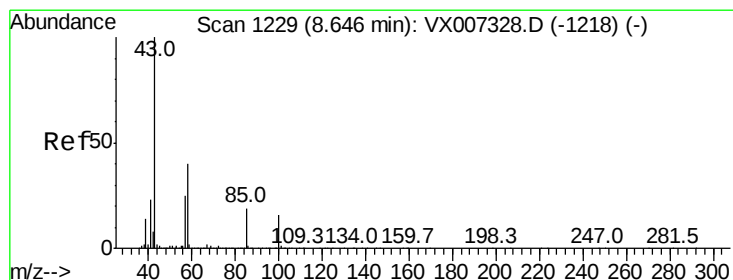
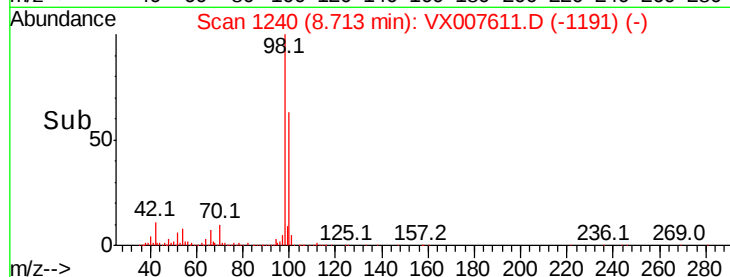
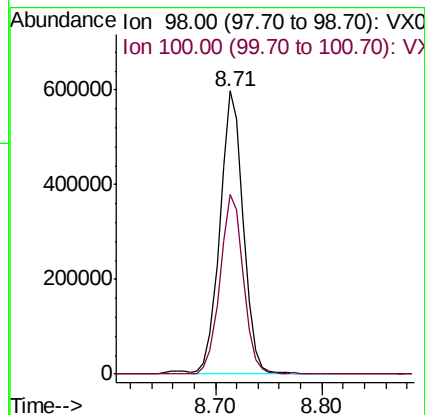
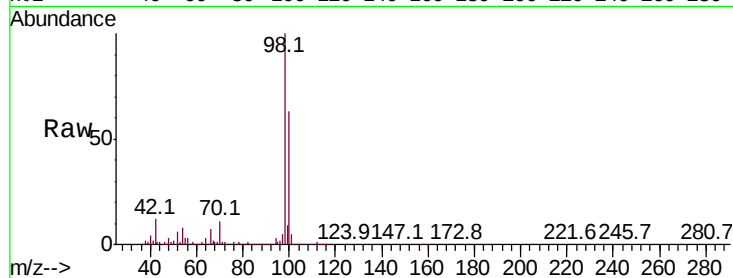
MW-2

Tot Ion: 98 Resp: 905754

Ion Ratio Lower Upper

98 100

100 63.5 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 3.481 ug/l

RT: 8.66 min Scan# 1231

Delta R.T. 0.01 min

Lab File: VX007611.D

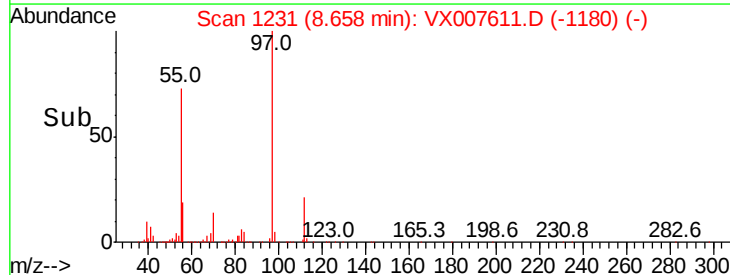
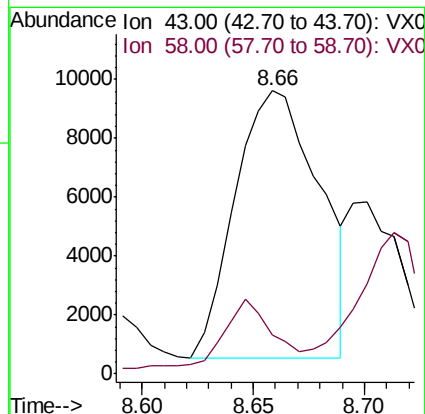
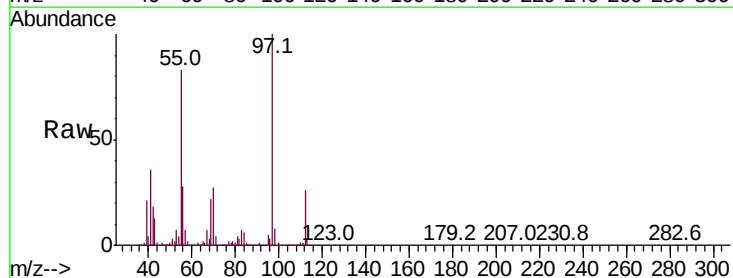
Acq: 19 Feb 2019 14:17

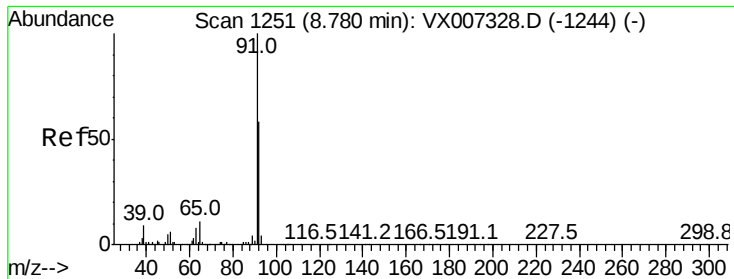
Tgt Ion: 43 Resp: 23873

Ion Ratio Lower Upper

43 100

58 16.6 31.2 46.8#





#52

Toluene

Concen: 0.409 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

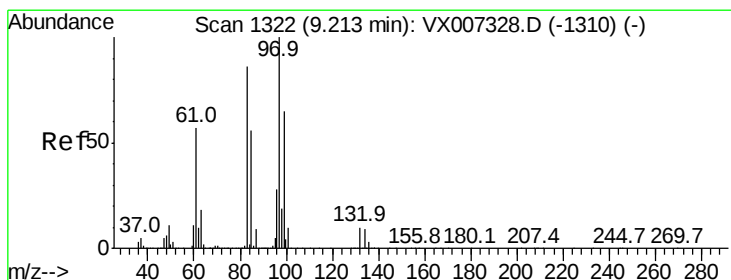
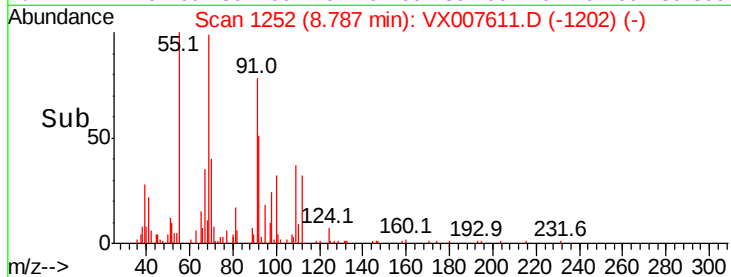
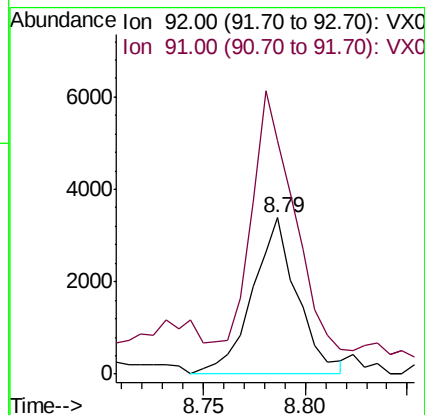
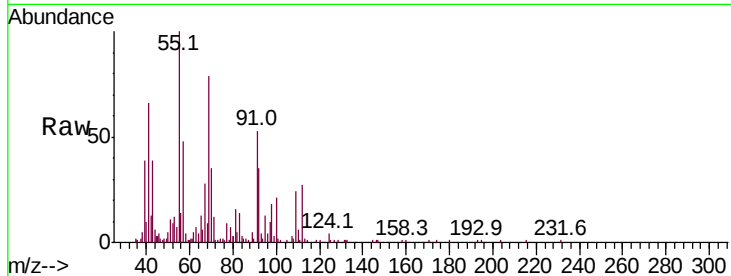
MW-2

Tot Ion: 92 Resp: 5191

Ion Ratio Lower Upper

92 100

91 154.6 139.1 208.7



#55

1,1,2-Trichloroethane

Concen: 28.032 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Tgt Ion: 97 Resp: 148292

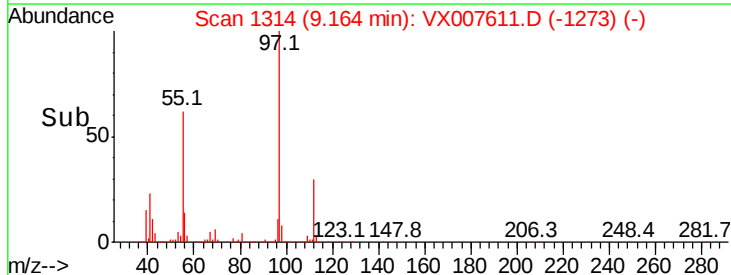
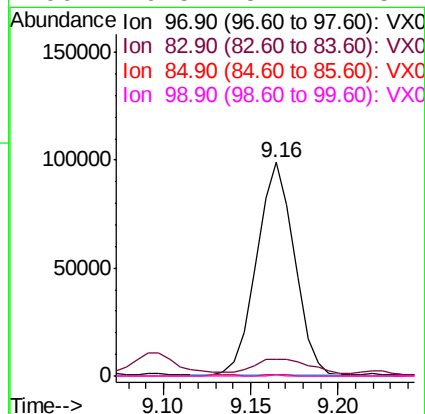
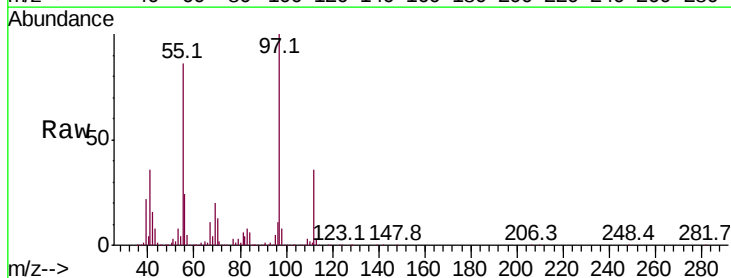
Ion Ratio Lower Upper

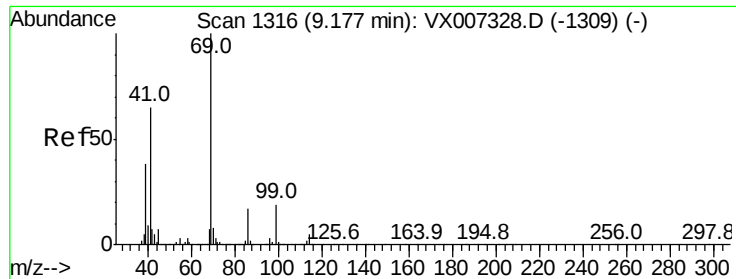
97 100

83 6.8 68.6 102.8#

85 0.2 44.5 66.7#

99 0.5 52.2 78.4#





#56

Ethyl methacrylate

Concen: 5.409 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :
MSVOA_X
ClientSampled :
MW-2

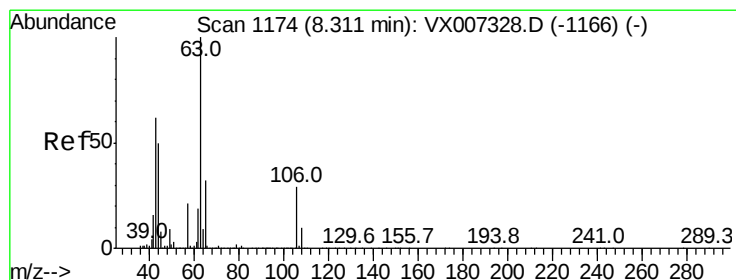
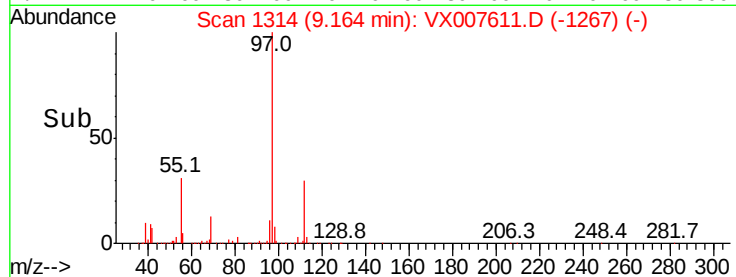
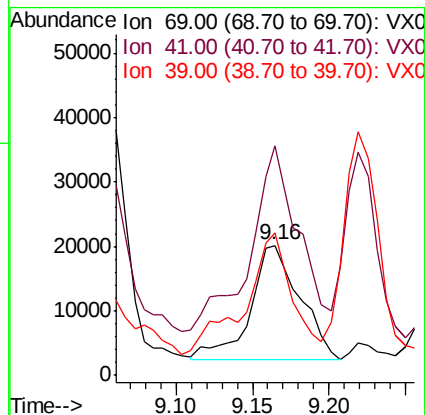
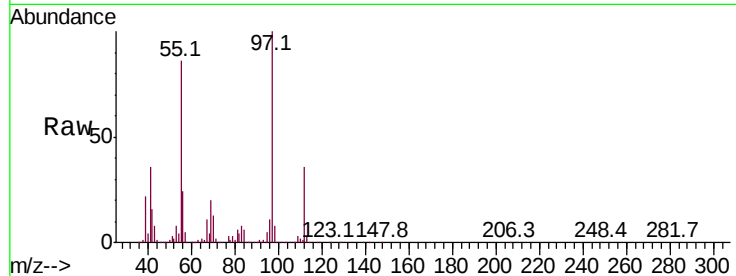
Tot Ion: 69 Resp: 39633

Ion Ratio Lower Upper

69 100

41 192.6 52.1 78.1#

39 103.3 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: 0.548 ug/l

RT: 8.38 min Scan# 1185

Delta R.T. 0.07 min

Lab File: VX007611.D

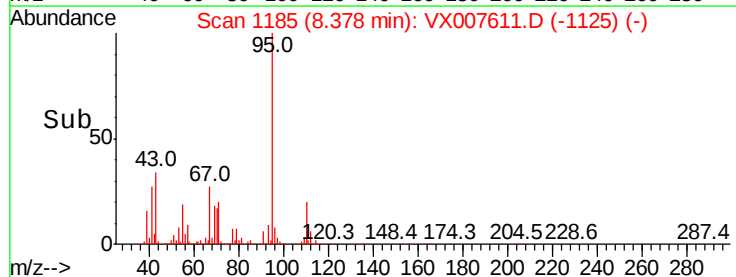
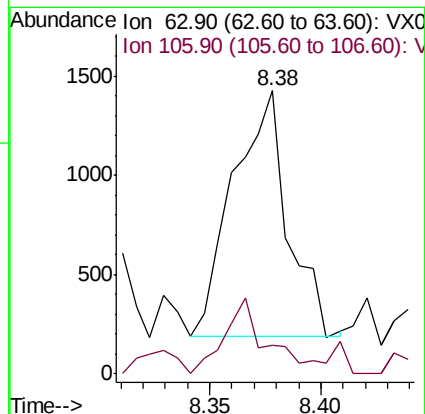
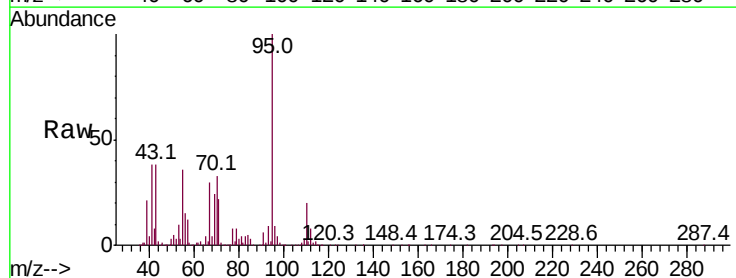
Acq: 19 Feb 2019 14:17

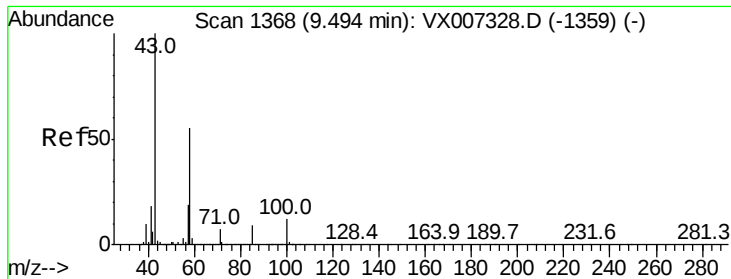
Tgt Ion: 63 Resp: 2116

Ion Ratio Lower Upper

63 100

106 24.5 23.6 35.4





#59

2-Hexanone

Concen: 1.612 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

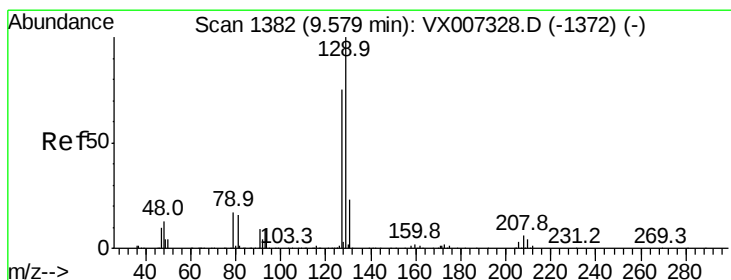
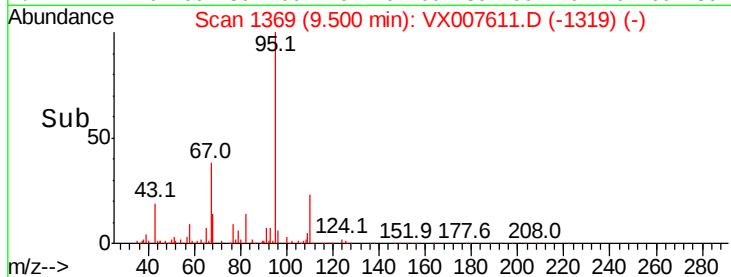
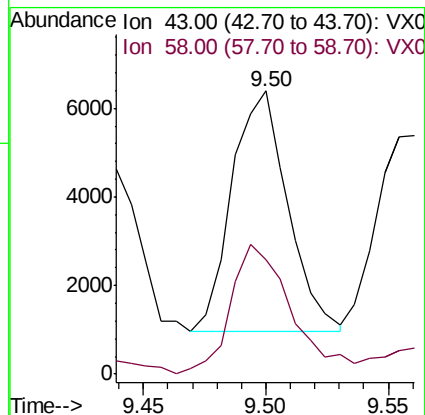
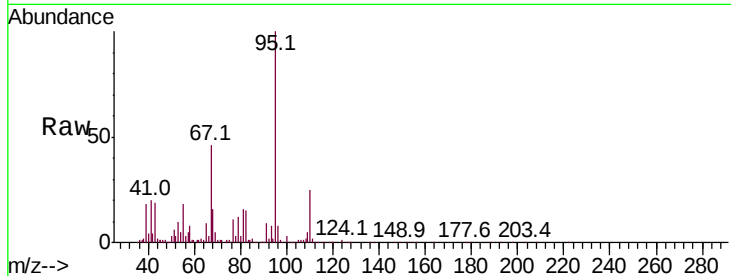
MW-2

Tot Ion: 43 Resp: 8603

Ion Ratio Lower Upper

43 100

58 58.7 27.1 81.3



#60

Dibromochloromethane

Concen: 13.307 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007611.D

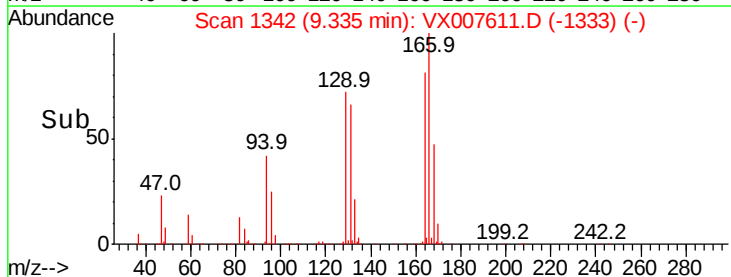
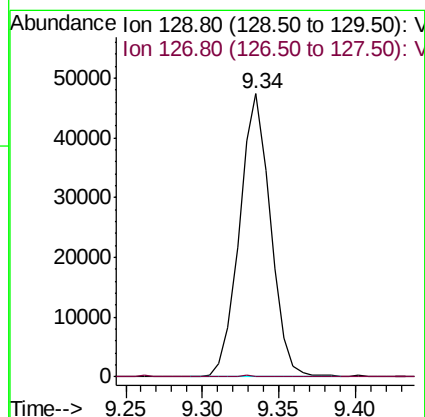
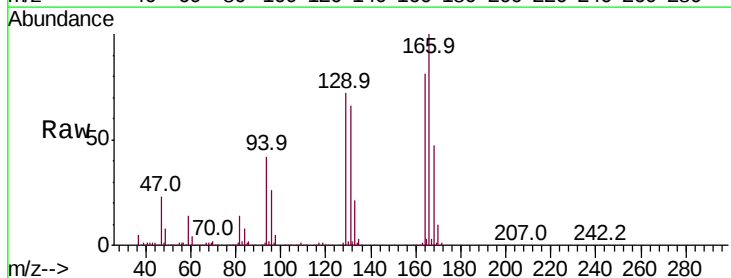
Acq: 19 Feb 2019 14:17

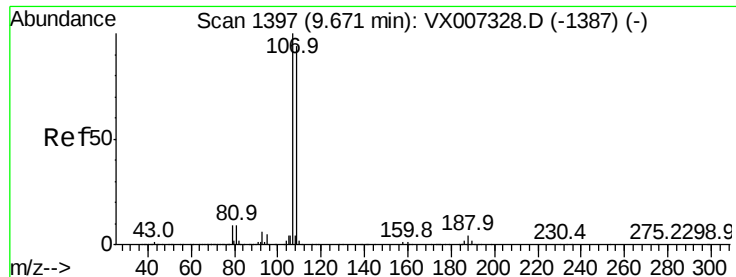
Tgt Ion:129 Resp: 66578

Ion Ratio Lower Upper

129 100

127 0.3 37.8 113.4#





#61

1,2-Dibromoethane

Concen: 0.284 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

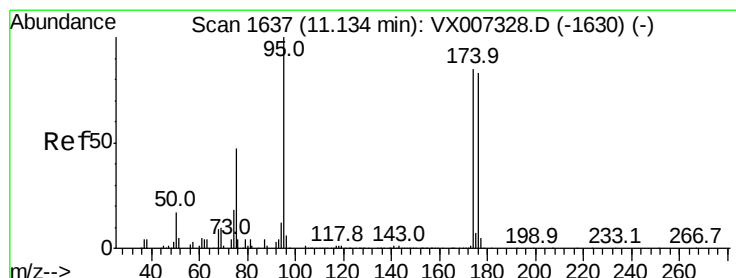
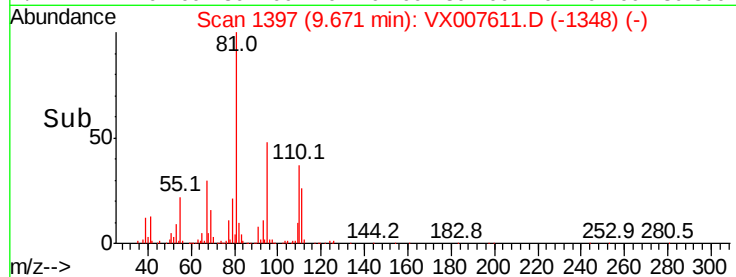
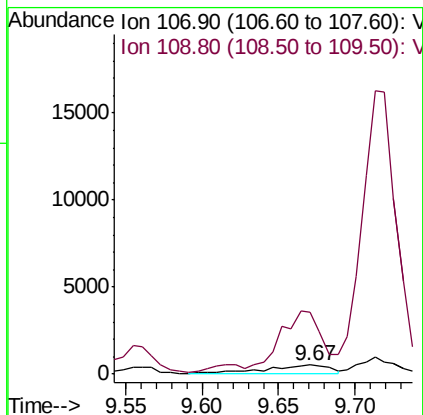
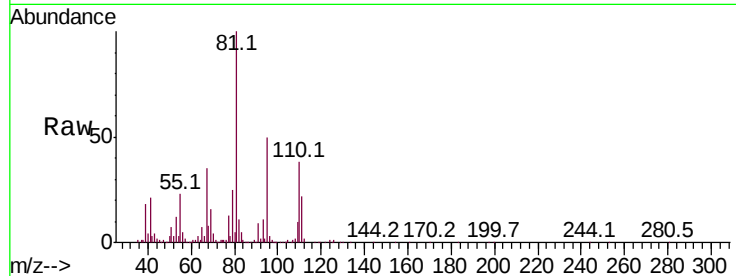
MW-2

Tot Ion:107 Resp: 1593

Ion Ratio Lower Upper

107 100

109 375.1 75.1 112.7#



#62

4-Bromofluorobenzene

Concen: 52.670 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

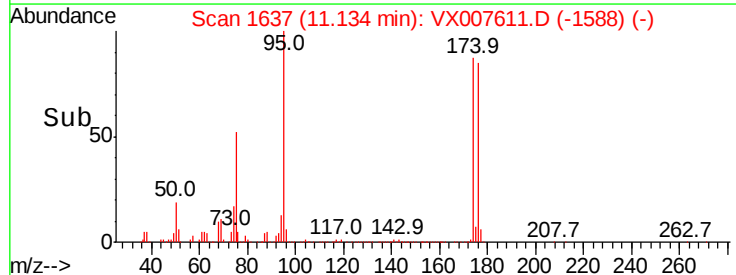
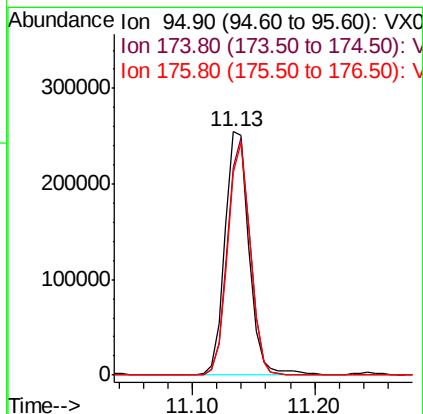
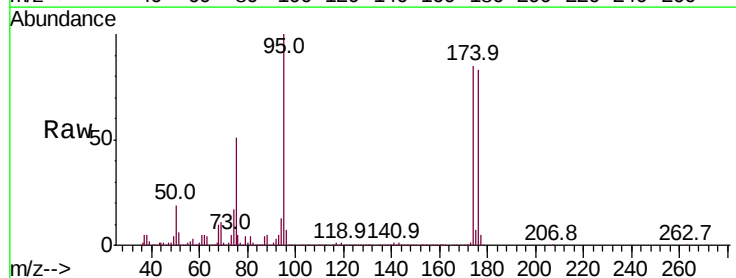
Tgt Ion: 95 Resp: 345495

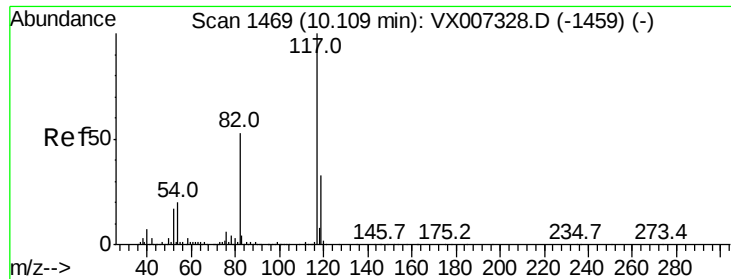
Ion Ratio Lower Upper

95 100

174 91.0 0.0 189.2

176 88.8 0.0 186.2

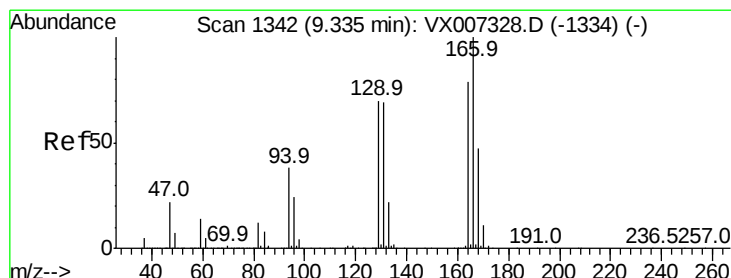
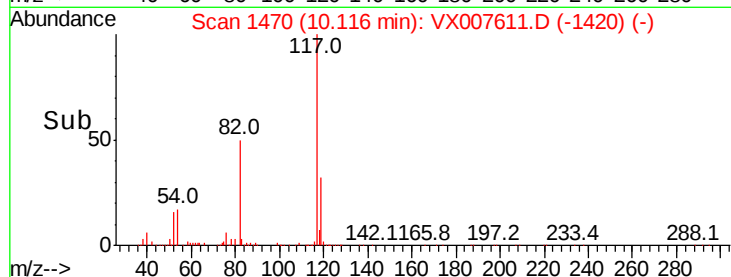
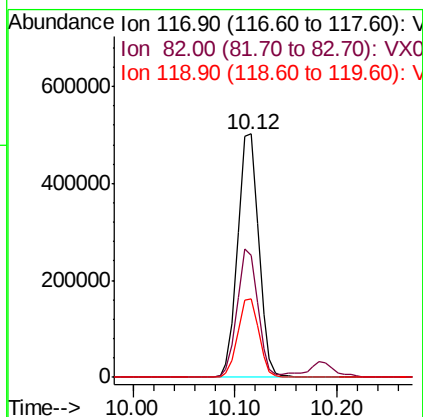
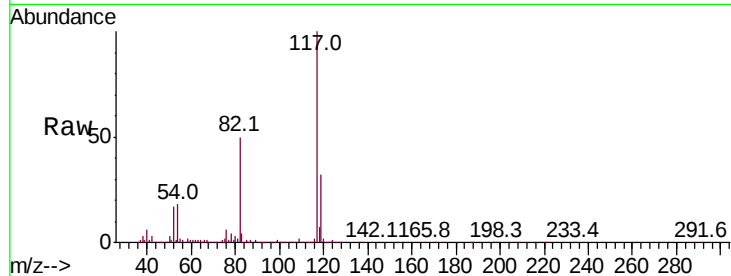




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

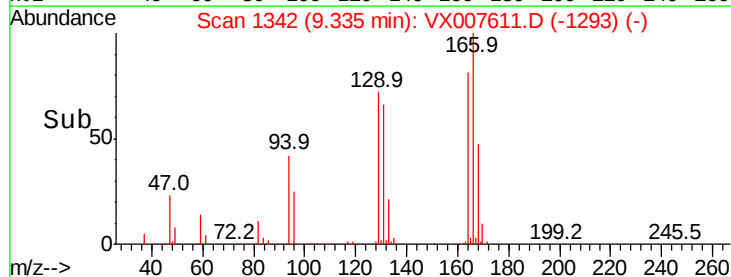
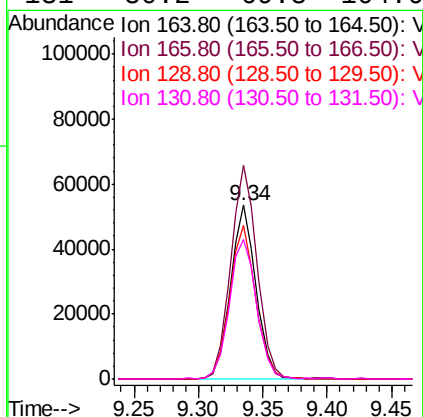
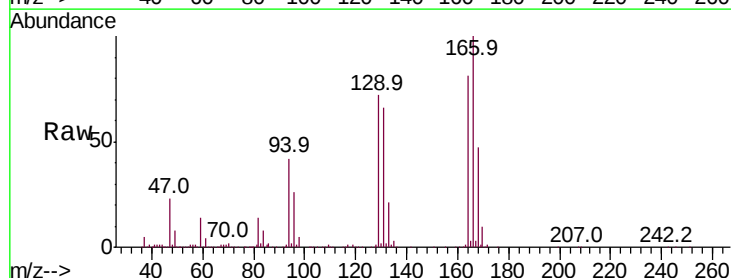
Instrument :
MSVOA_X
ClientSampleId :
MW-2

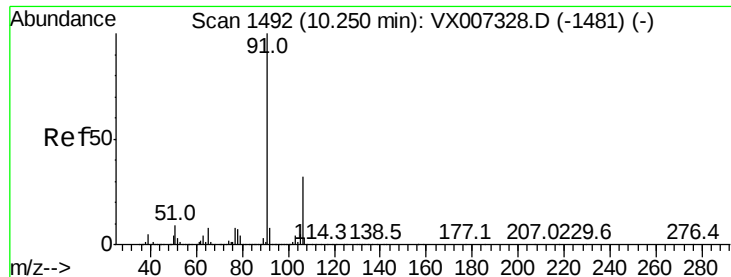
Tot Ion:117 Resp: 714959
Ion Ratio Lower Upper
117 100
82 50.1 42.1 63.1
119 32.3 26.5 39.7



#64
Tetrachloroethene
Concen: 10.925 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion:164 Resp: 73621
Ion Ratio Lower Upper
164 100
166 122.8 101.0 151.4
129 88.4 70.5 105.7
131 80.2 69.8 104.6





#67

Ethyl Benzene

Concen: 5.600 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

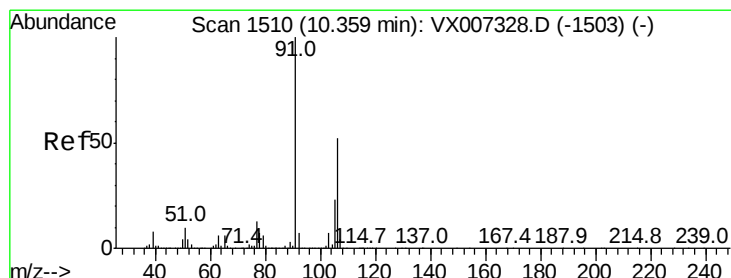
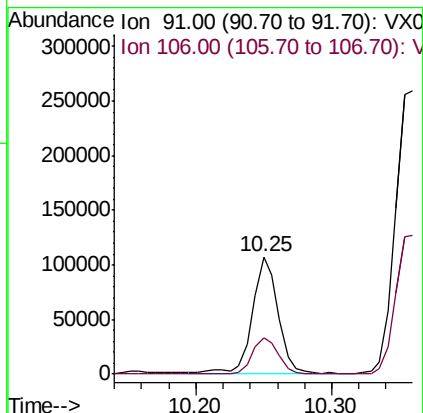
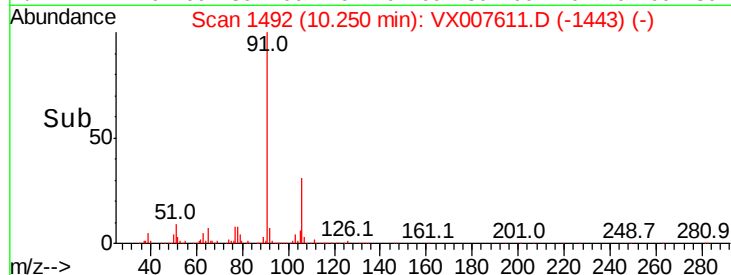
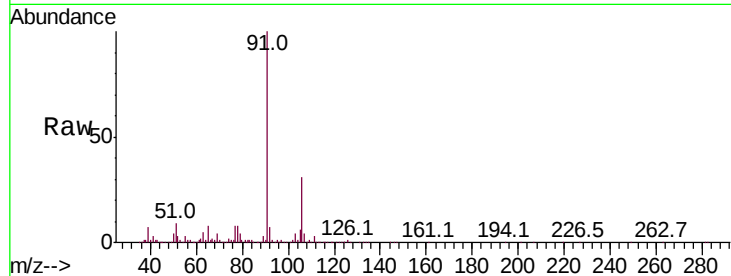
MW-2

Tot Ion: 91 Resp: 140687

Ion Ratio Lower Upper

91 100

106 31.5 25.4 38.0



#68

m/p-Xylenes

Concen: 17.907 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007611.D

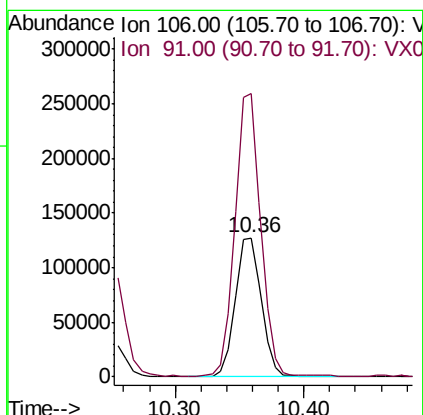
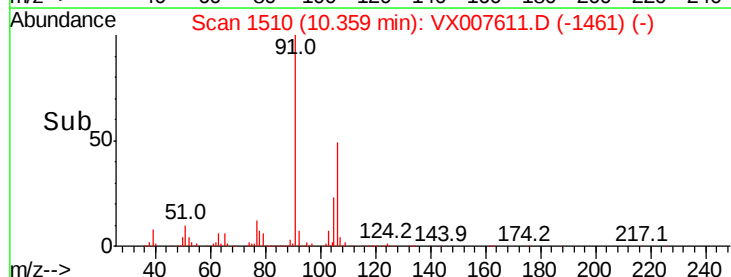
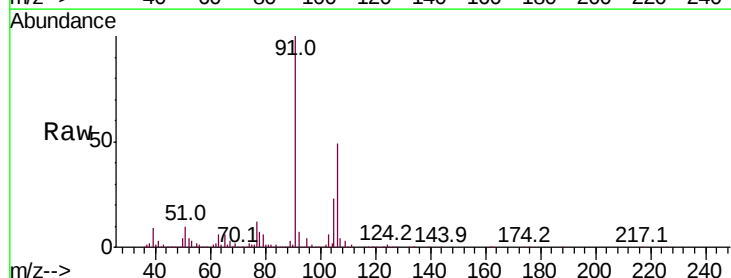
Acq: 19 Feb 2019 14:17

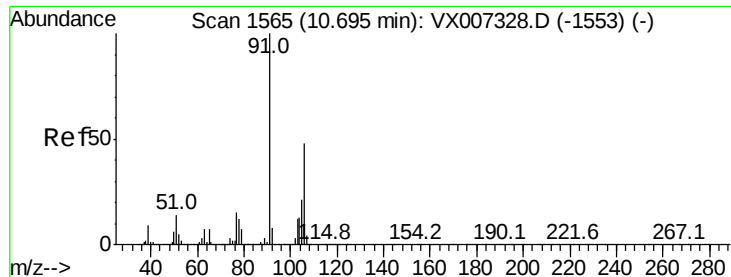
Tgt Ion: 106 Resp: 178849

Ion Ratio Lower Upper

106 100

91 198.8 156.6 234.8





#69

o-Xylene

Concen: 0.686 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

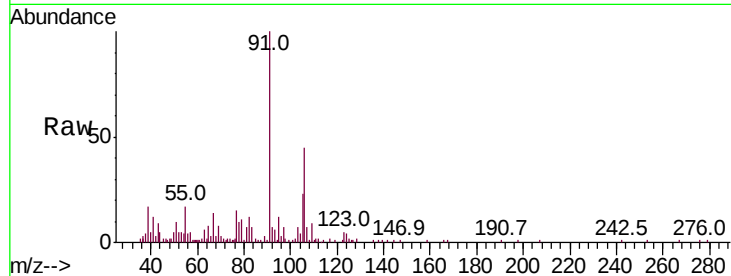
MW-2

Tot Ion:106 Resp: 6591

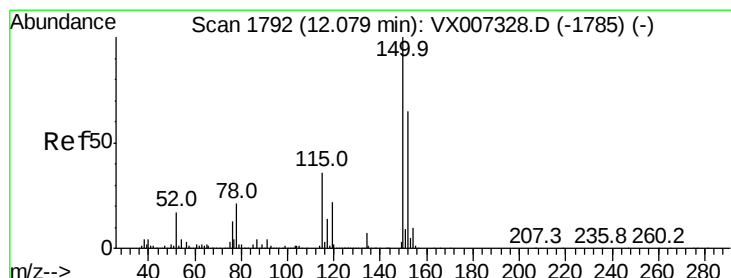
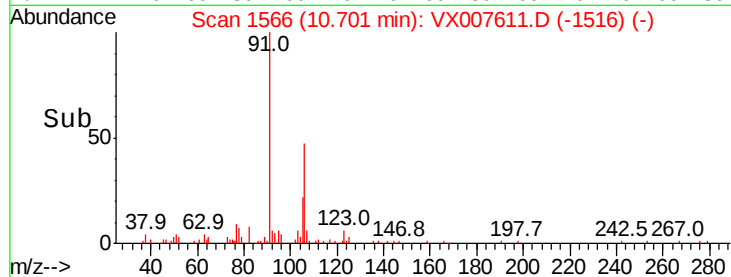
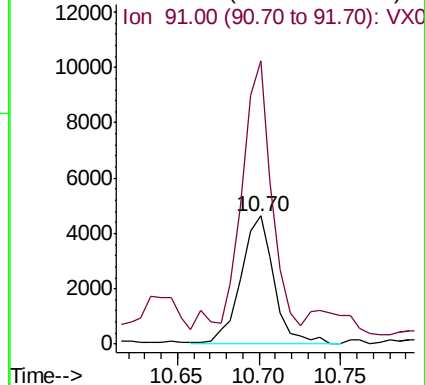
Ion Ratio Lower Upper

106 100

91 194.4 102.9 308.7



Abundance Ion 106.00 (105.70 to 106.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

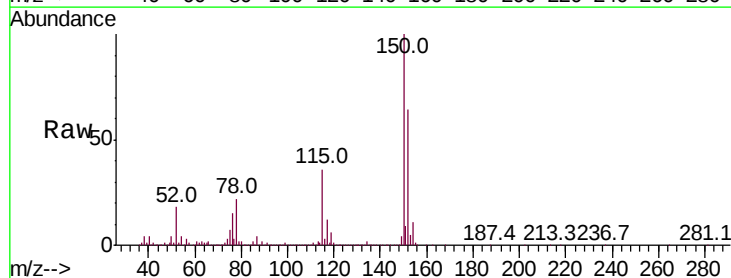
Tgt Ion:152 Resp: 393101

Ion Ratio Lower Upper

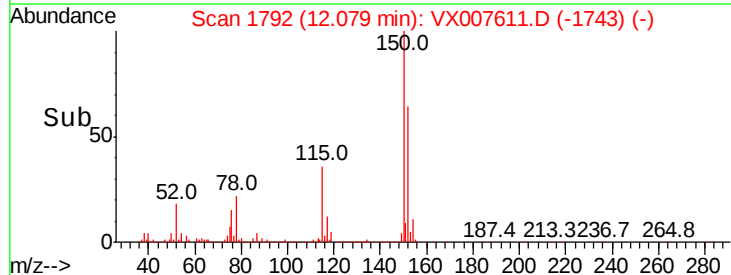
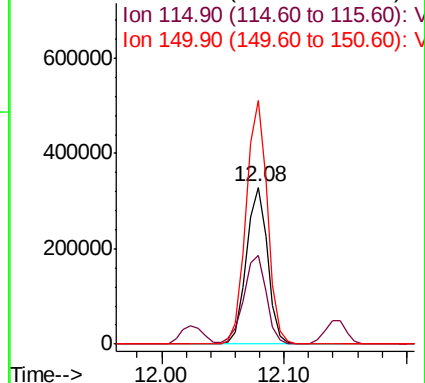
152 100

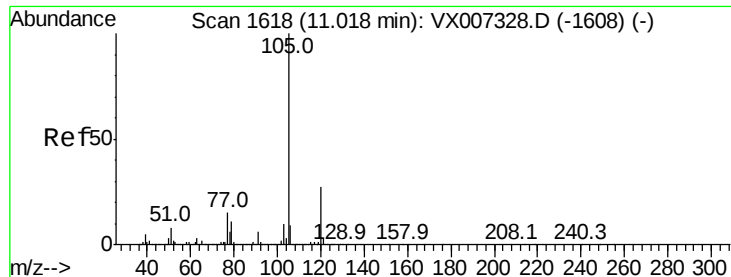
115 60.1 38.0 114.0

150 156.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V





#73

Isopropylbenzene

Concen: 22.385 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampled :

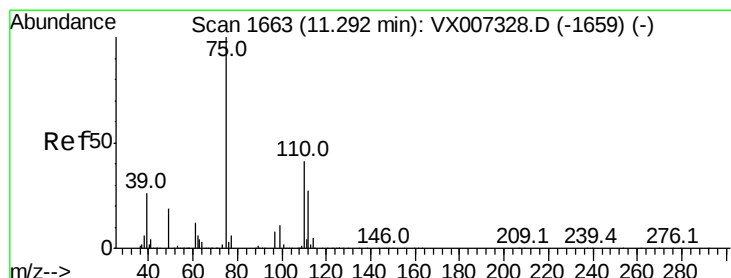
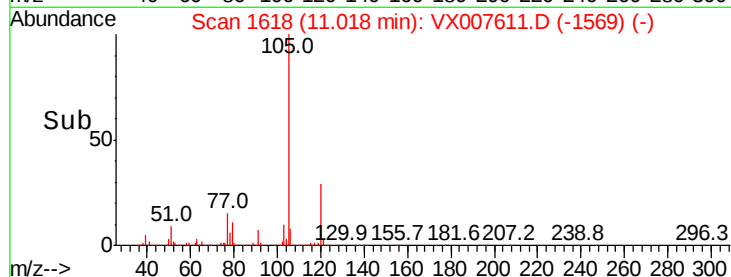
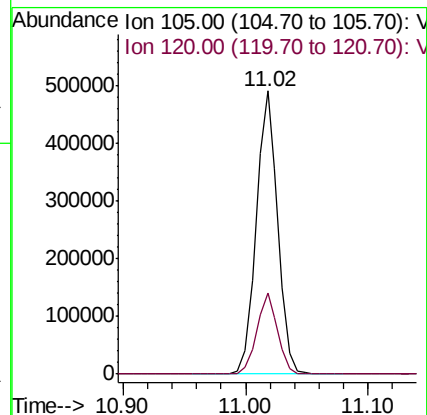
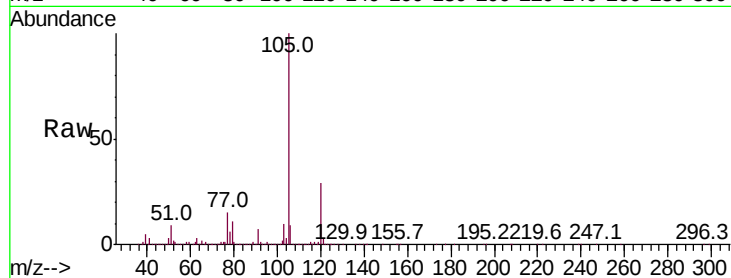
MW-2

Tot Ion:105 Resp: 597974

Ion Ratio Lower Upper

105 100

120 27.9 13.6 40.7



#76

1,2,3-Trichloropropane

Concen: 2.613 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.07 min

Lab File: VX007611.D

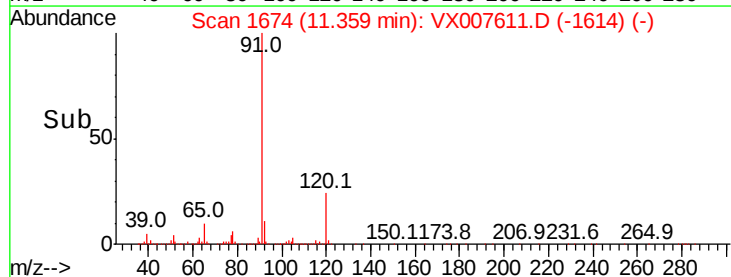
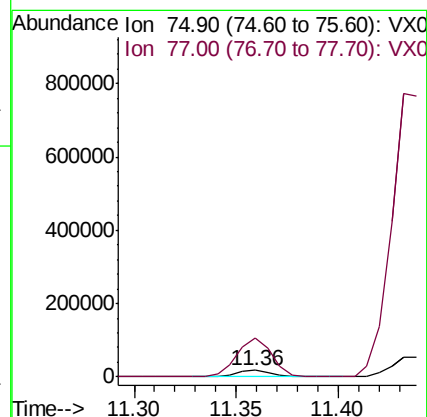
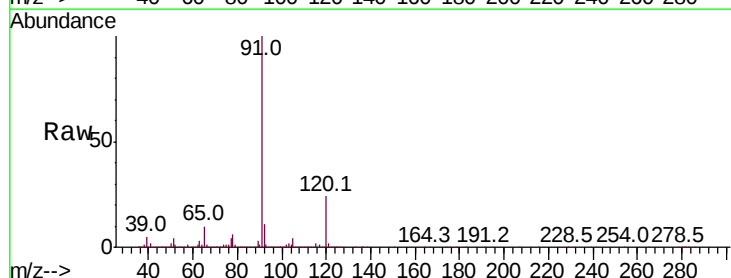
Acq: 19 Feb 2019 14:17

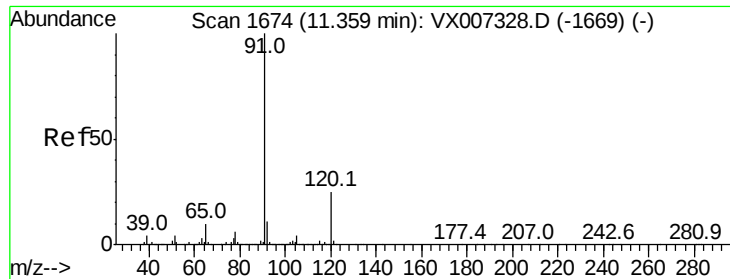
Tgt Ion: 75 Resp: 19979

Ion Ratio Lower Upper

75 100

77 635.0 23.0 69.0#





#78

n-propylbenzene

Concen: 111.180 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

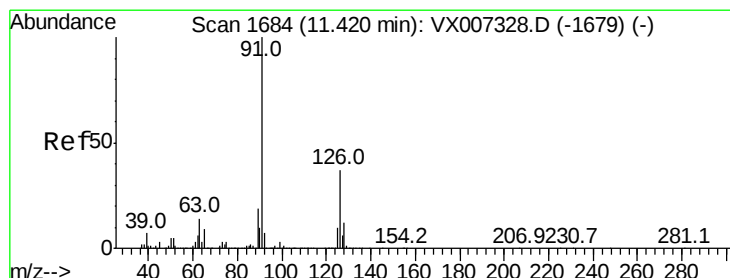
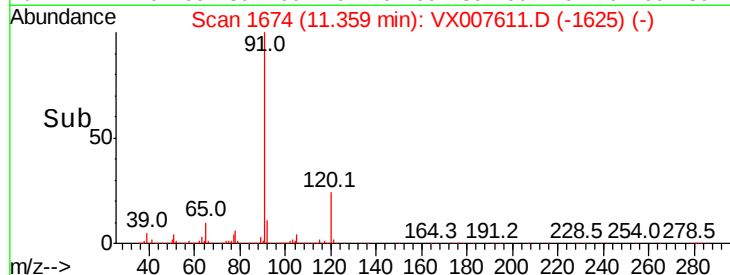
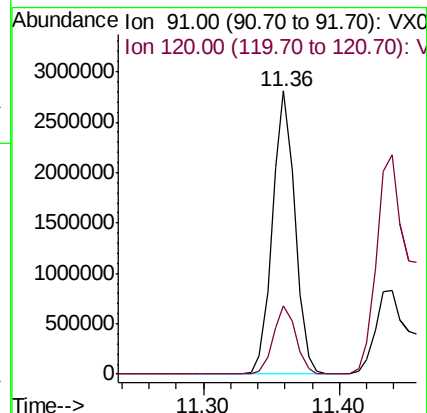
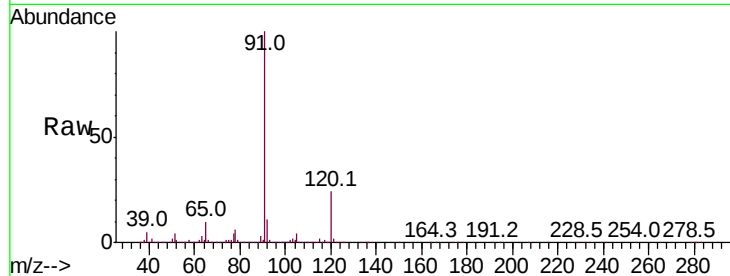
MW-2

Tot Ion: 91 Resp: 3256788

Ion Ratio Lower Upper

91 100

120 24.3 12.4 37.2



#79

2-Chlorotoluene

Concen: 81.958 ug/l

RT: 11.44 min Scan# 1687

Delta R.T. 0.02 min

Lab File: VX007611.D

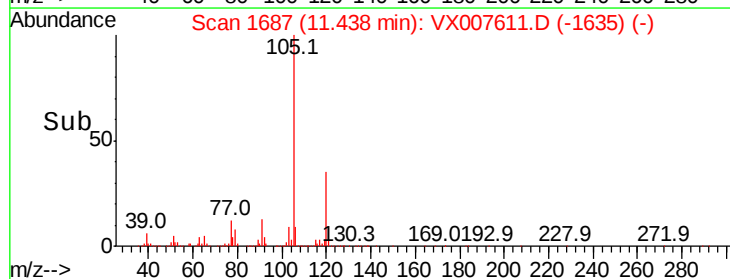
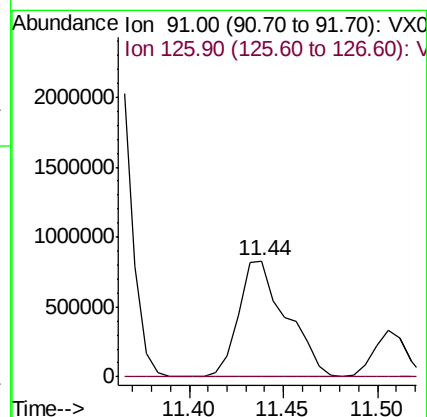
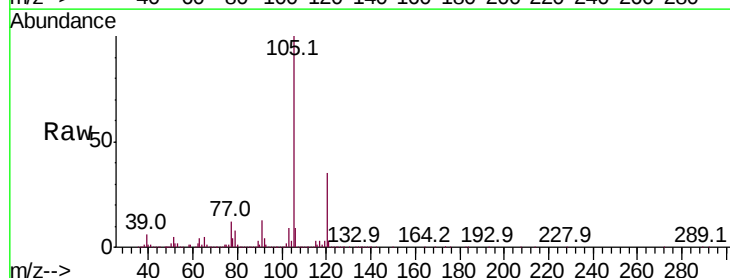
Acq: 19 Feb 2019 14:17

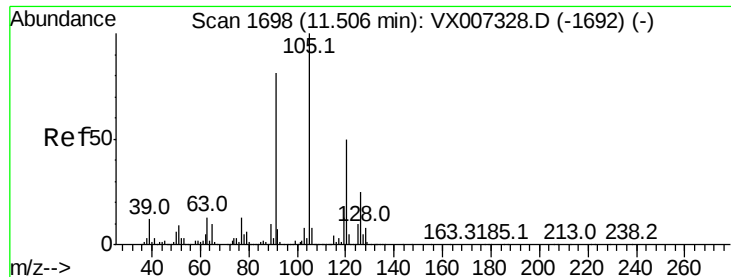
Tgt Ion: 91 Resp: 1456742

Ion Ratio Lower Upper

91 100

126 0.4 18.7 56.1#





#80

1,3,5-Trimethylbenzene

Concen: 166.445 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

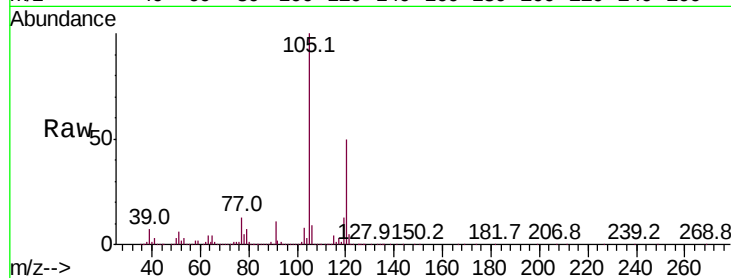
MW-2

Tot Ion:105 Resp: 3637612

Ion Ratio Lower Upper

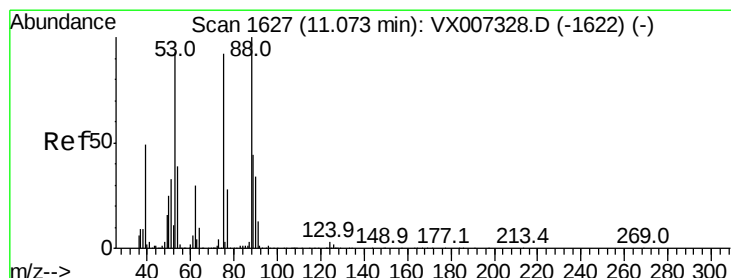
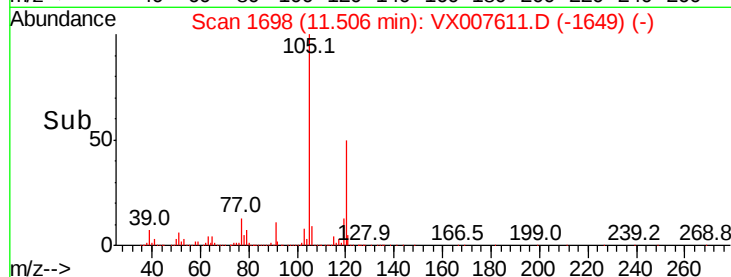
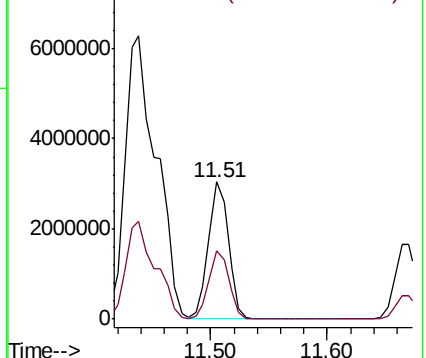
105 100

120 49.8 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 6.900 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.05 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

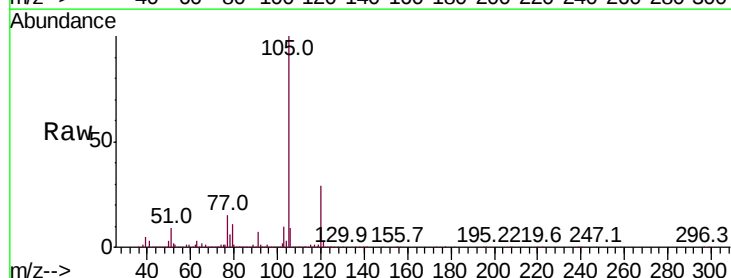
Tgt Ion: 75 Resp: 7219

Ion Ratio Lower Upper

75 100

53 112.6 81.0 121.6

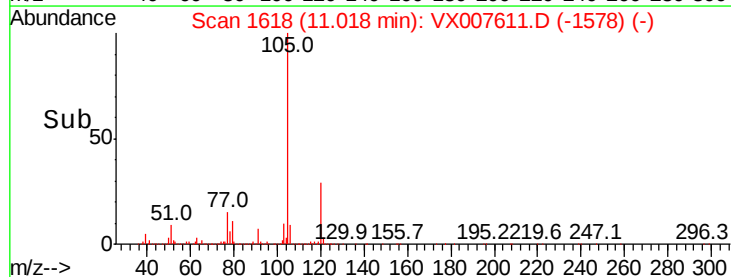
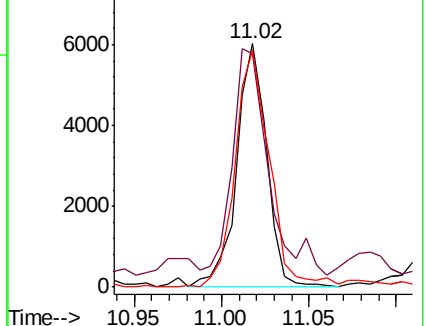
89 111.5 41.4 62.0#

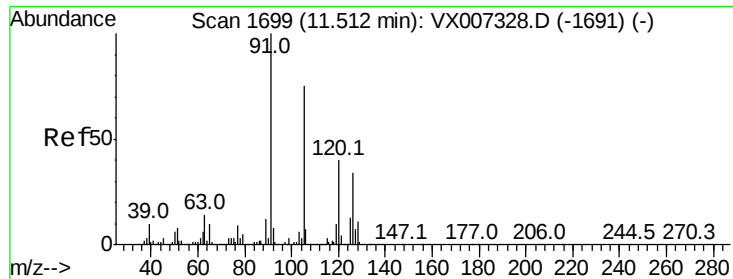


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#82

4-Chlorotoluene

Concen: 19.084 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

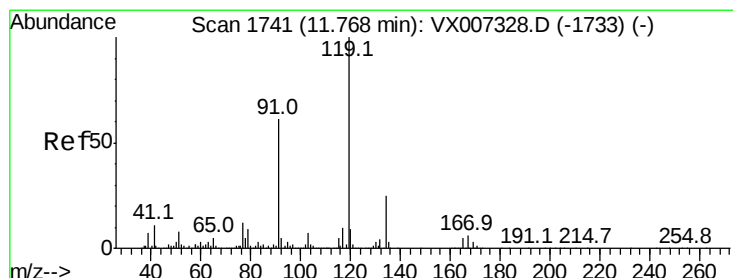
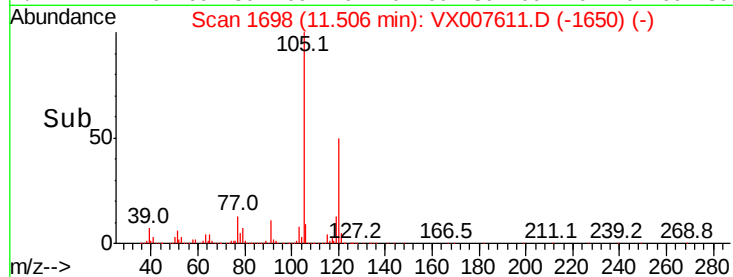
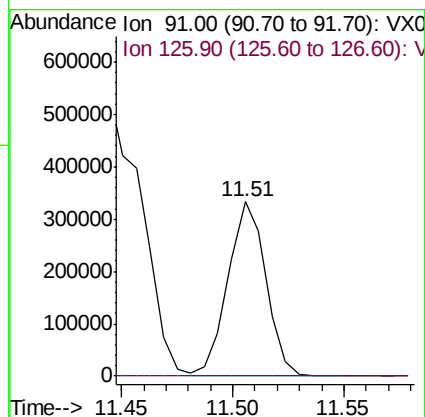
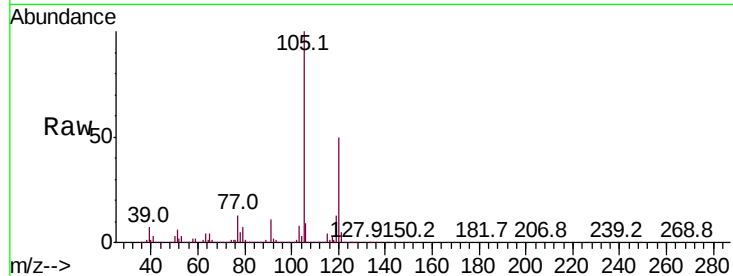
MW-2

Tot Ion: 91 Resp: 392488

Ion Ratio Lower Upper

91 100

126 0.2 16.2 48.5#



#83

tert-Butylbenzene

Concen: 57.403 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.04 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

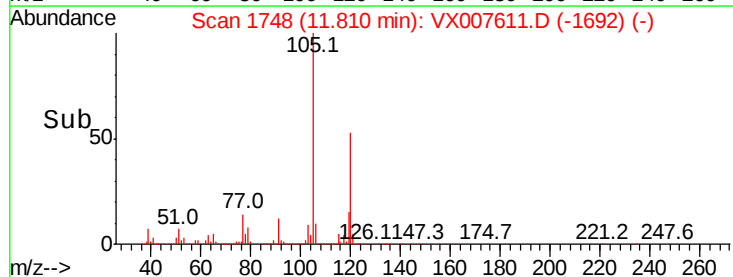
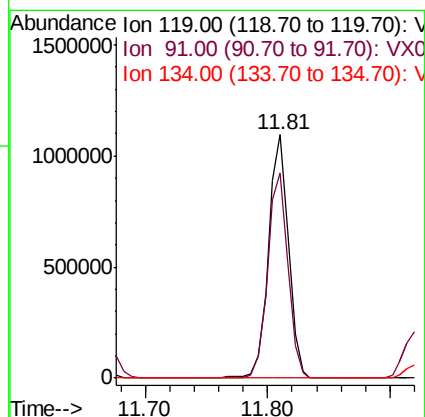
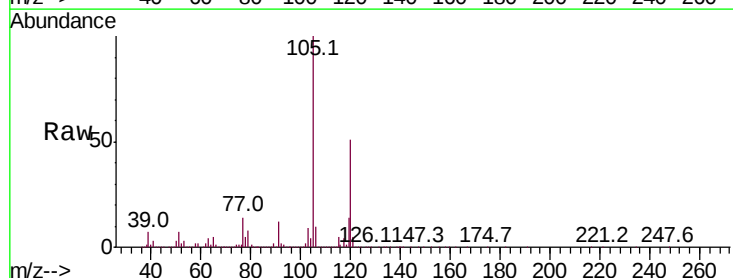
Tgt Ion: 119 Resp: 1242054

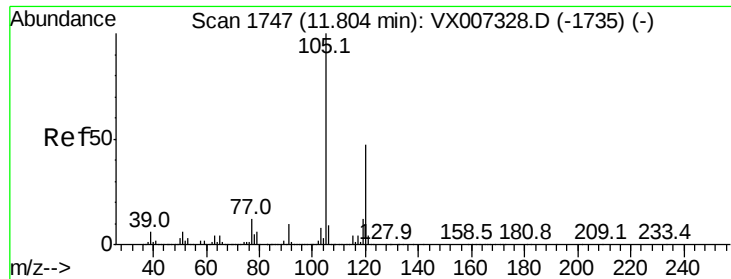
Ion Ratio Lower Upper

119 100

91 85.8 28.5 85.6#

134 0.0 12.0 36.0#

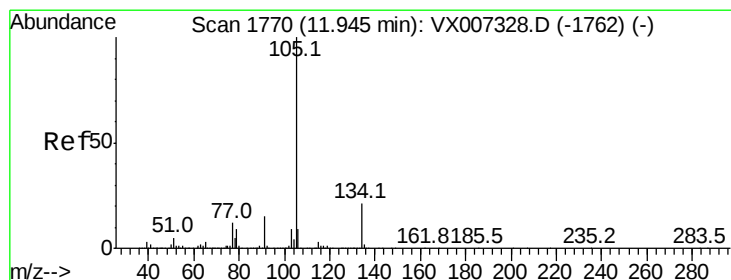
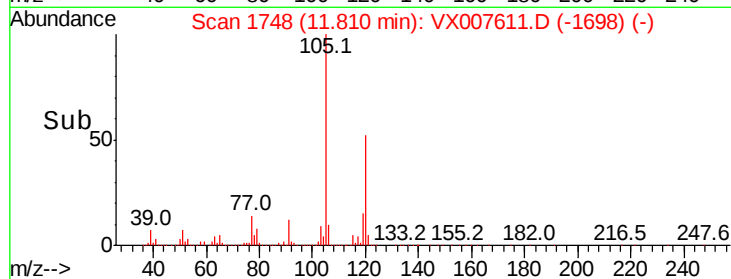
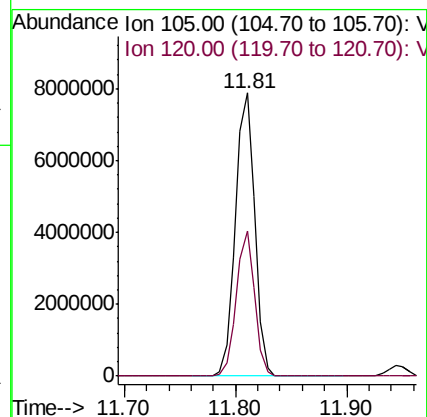
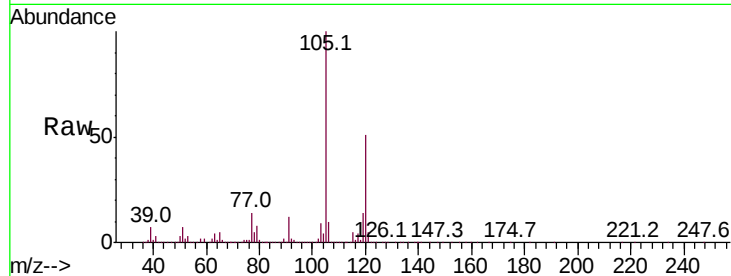




#84
1,2,4-Trimethylbenzene
Concen: 424.032 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

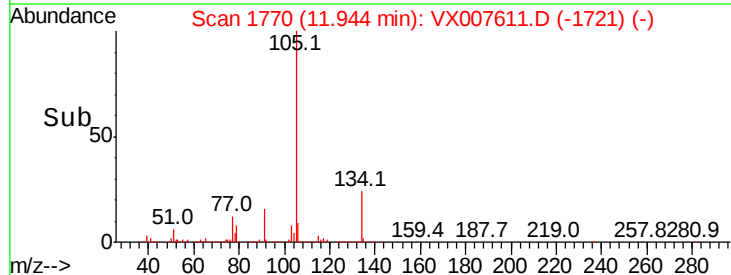
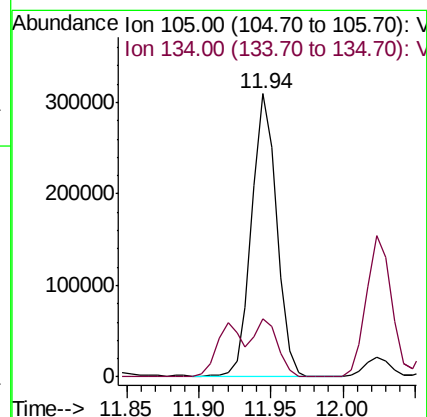
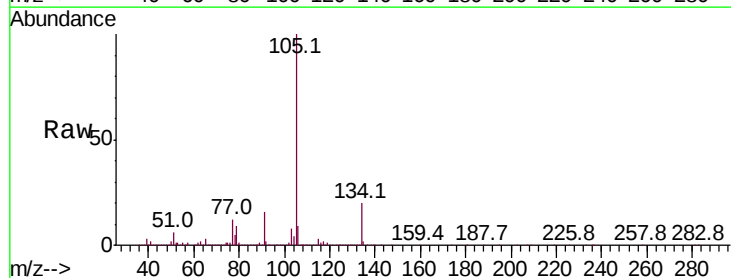
Instrument :
MSVOA_X
ClientSampleId :
MW-2

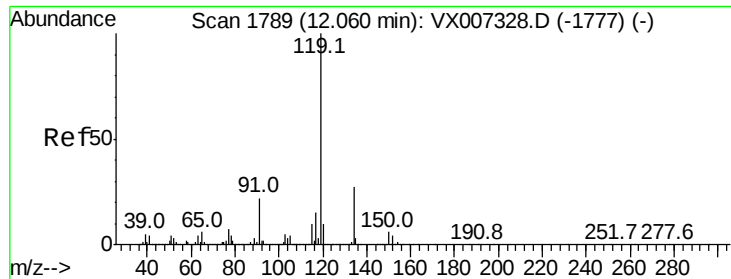
Tot Ion:105 Resp: 9408296
Ion Ratio Lower Upper
105 100
120 48.6 23.1 69.3



#85
sec-Butylbenzene
Concen: 14.112 ug/l
RT: 11.94 min Scan# 1770
Delta R.T. -0.00 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion:105 Resp: 369564
Ion Ratio Lower Upper
105 100
134 19.3 10.6 31.8

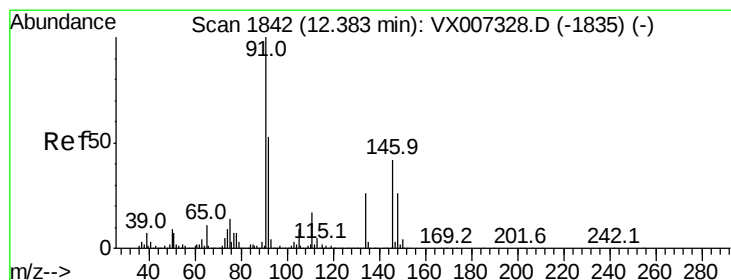
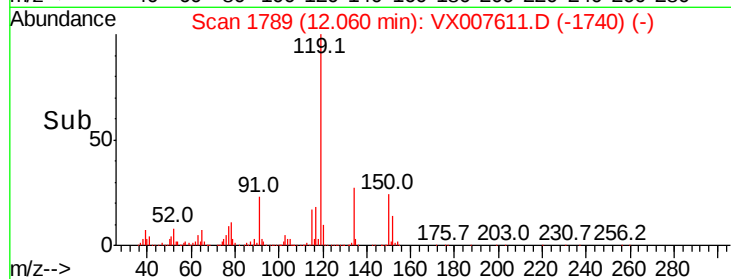
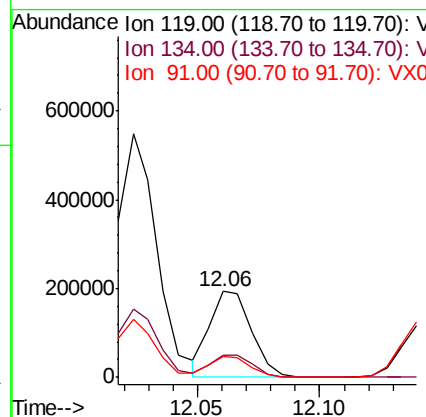
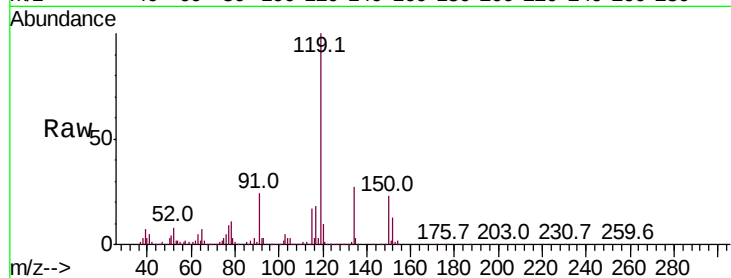




#86
p-Isopropyltoluene
Concen: 9.652 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

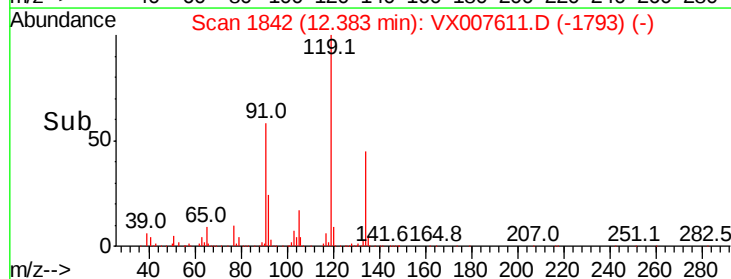
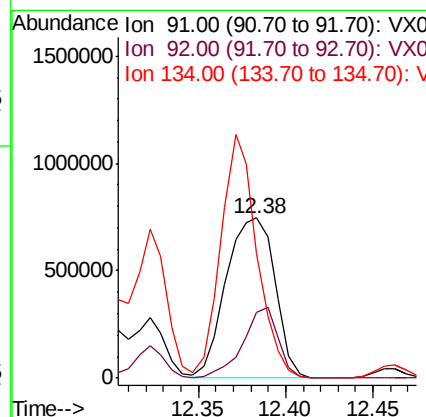
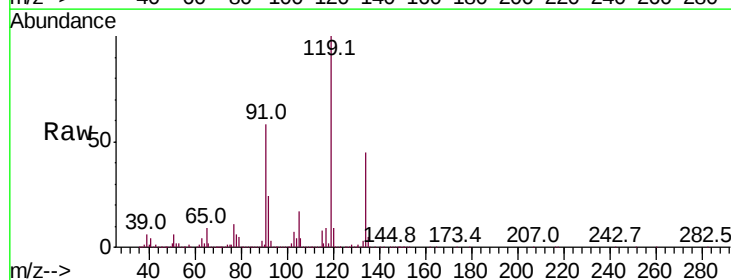
Instrument :
MSVOA_X
ClientSampleId :
MW-2

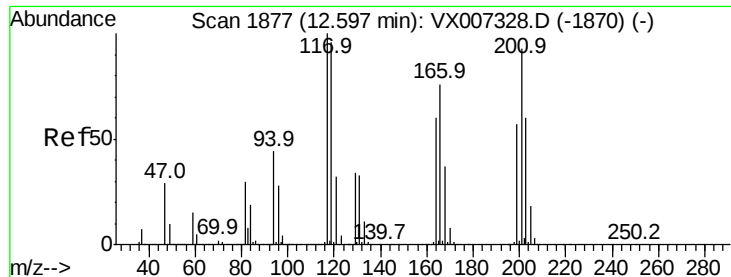
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.7	41.1
91	23.2	11.2	33.5



#89
n-Butylbenzene
Concen: 70.832 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX007611.D
Acq: 19 Feb 2019 14:17

Tgt Ion	Ratio	Lower	Upper
91	100		
92	32.3	26.3	78.9
134	112.5	13.9	41.6#





#90

Hexachloroethane

Concen: 60.867 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

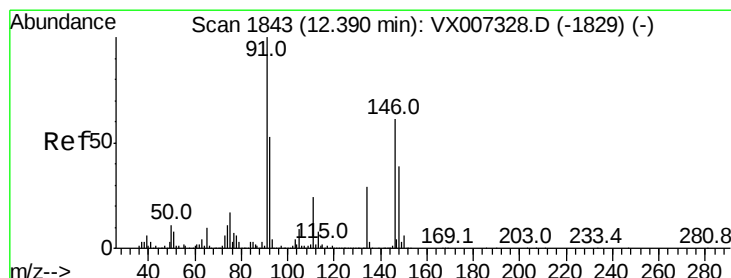
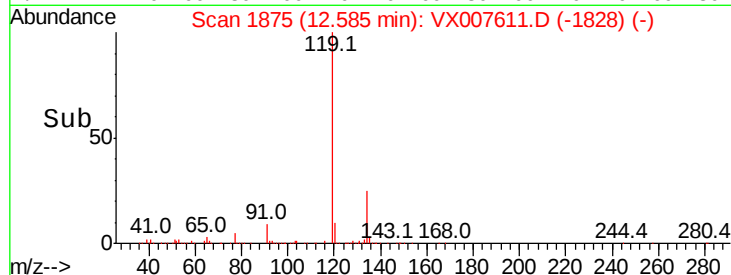
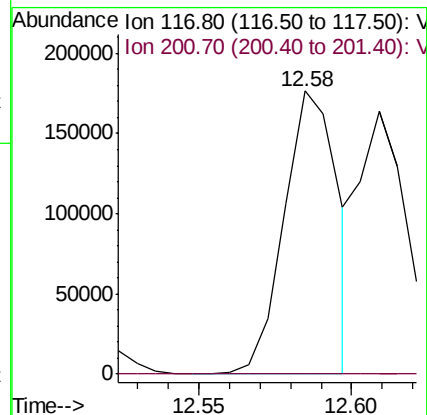
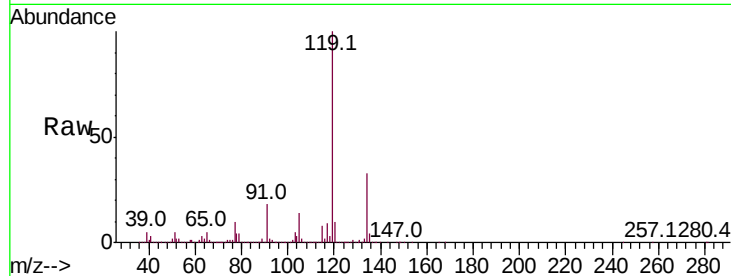
MW-2

Tot Ion:117 Resp: 215351

Ion Ratio Lower Upper

117 100

201 0.0 44.9 134.7#



#91

1,2-Dichlorobenzene

Concen: 0.712 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

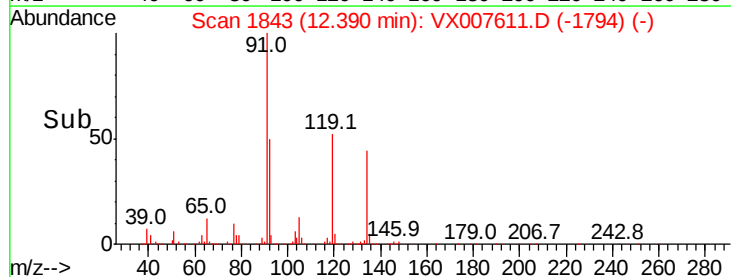
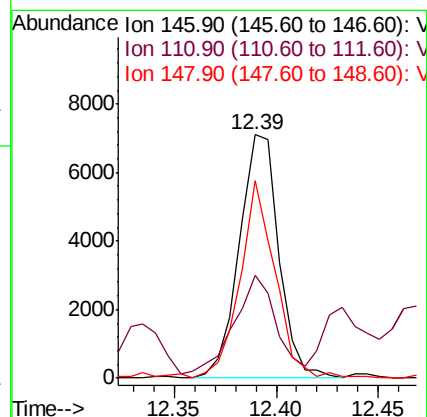
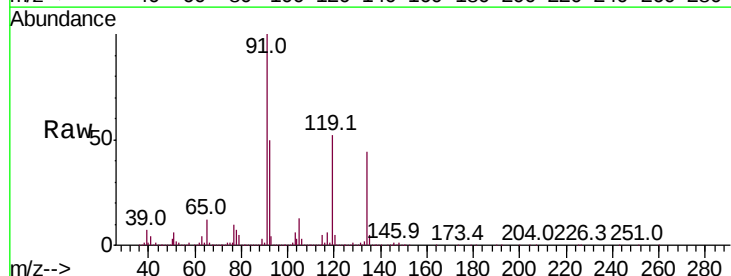
Tgt Ion:146 Resp: 9572

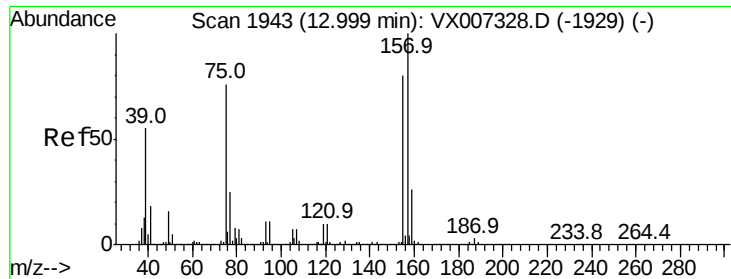
Ion Ratio Lower Upper

146 100

111 44.3 19.1 57.3

148 72.2 32.1 96.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 8.141 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

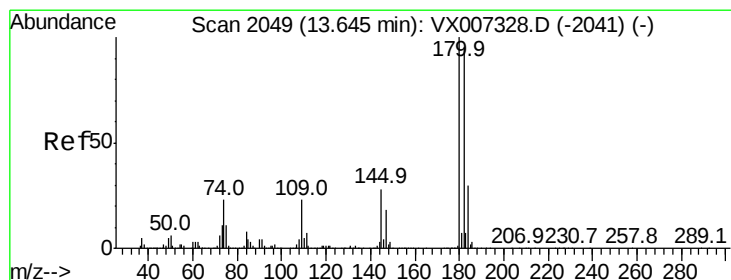
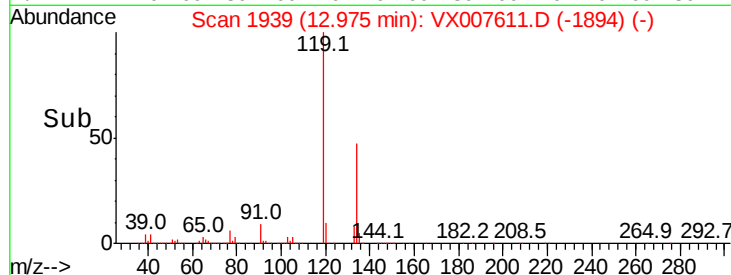
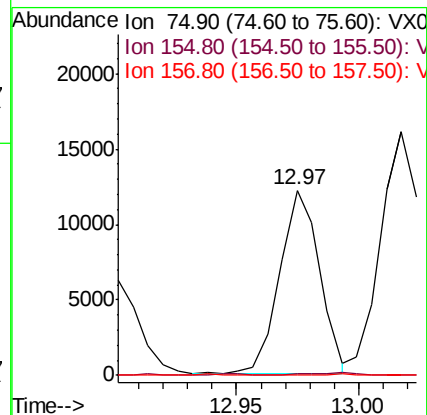
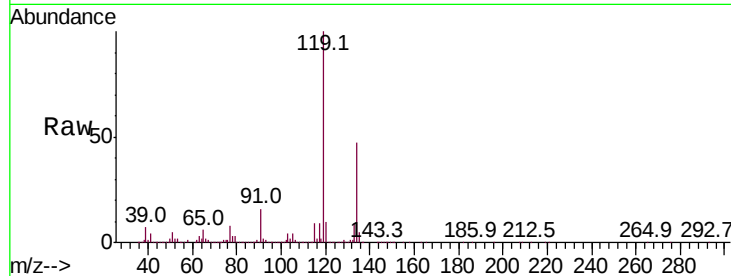
Tot Ion: 75 Resp: 13781

Ion Ratio Lower Upper

75 100

155 1.7 49.6 149.0#

157 0.4 65.1 195.3#



#93

1,2,4-Trichlorobenzene

Concen: 0.211 ug/l

RT: 13.64 min Scan# 2048

Delta R.T. -0.01 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

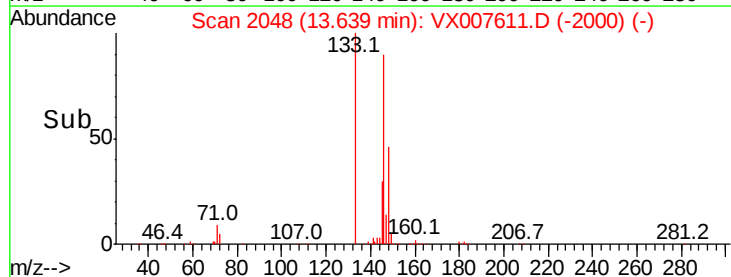
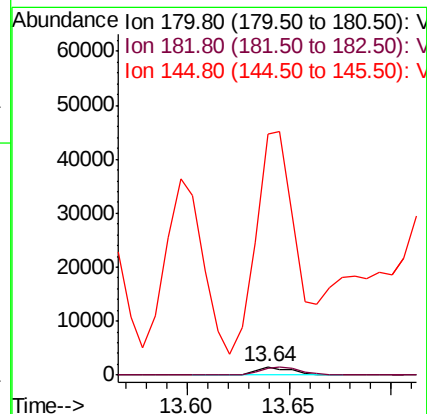
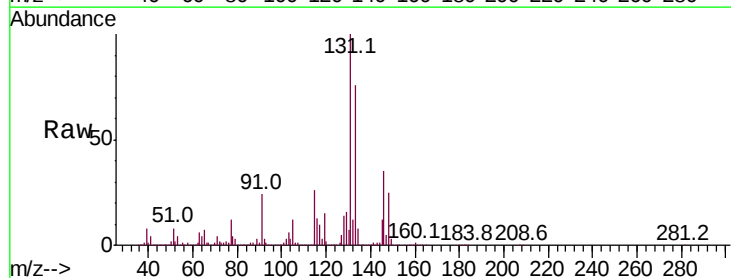
Tgt Ion:180 Resp: 1913

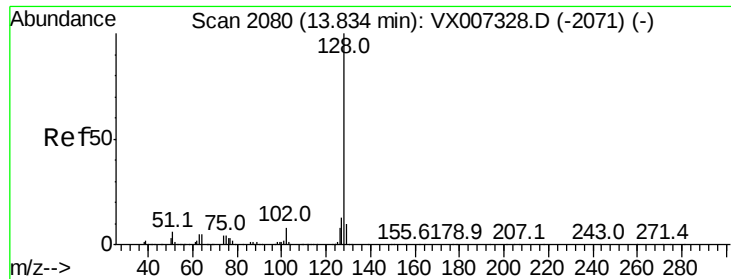
Ion Ratio Lower Upper

180 100

182 105.9 47.8 143.3

145 3343.2 14.1 42.2#





#95

Naphthalene

Concen: 10.673 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007611.D

Acq: 19 Feb 2019 14:17

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion:128 Resp: 282943

Ion Ratio Lower Upper

128 100

127 14.2 10.5 15.7

129 16.4 8.7 13.1#

