

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010820\
 Data File : VX014476.D
 Acq On : 08 Jan 2020 17:07
 Operator : JC/SP
 Sample : L1016-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:10:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

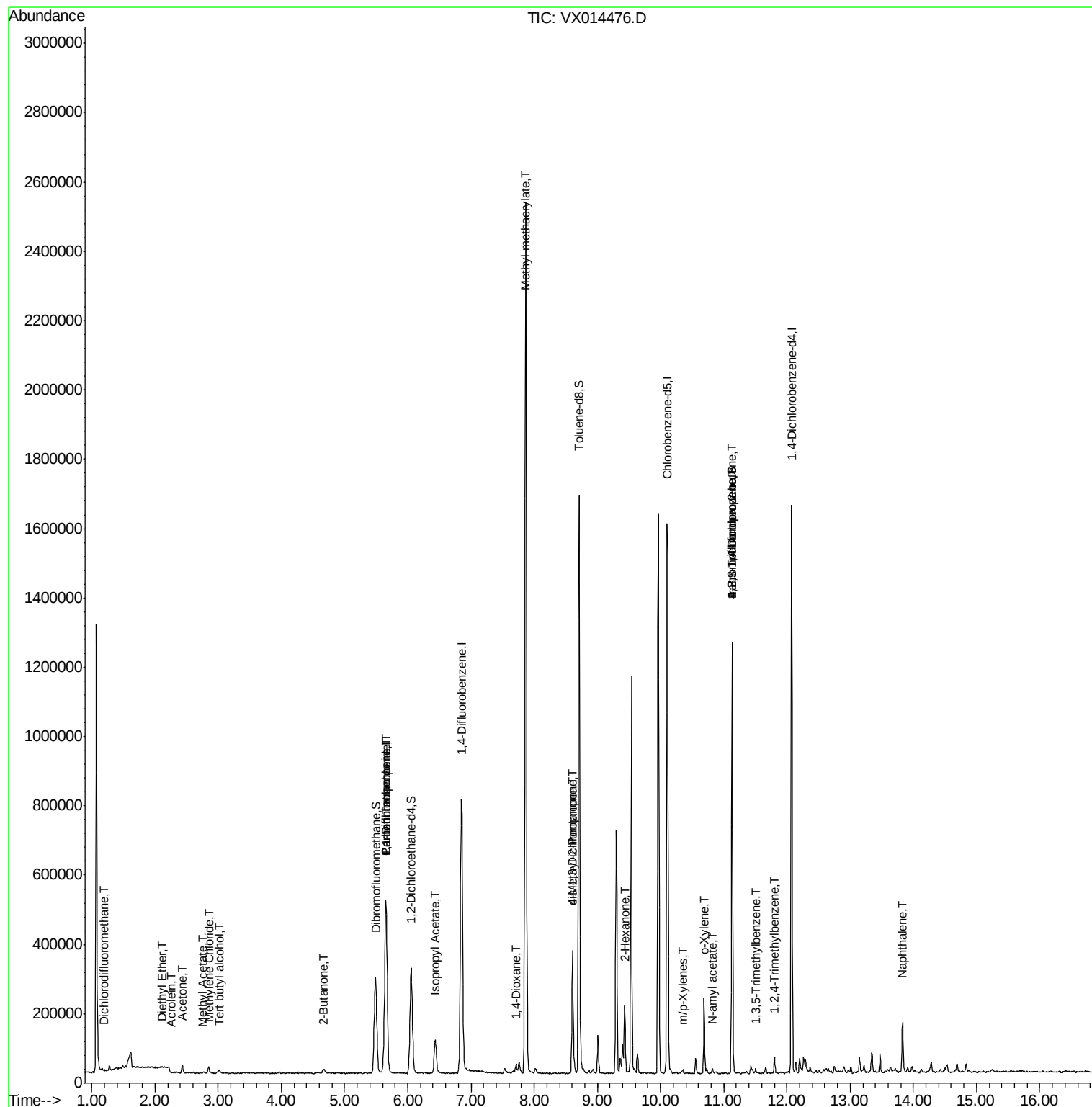
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	527575	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	816358	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	744383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	341729	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	287244	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
35) Dibromofluoromethane	5.49	113	238733	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
50) Toluene-d8	8.71	98	977117	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.13	95	334519	47.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.04%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	448	0.321	ug/l	87
6) Chloroethane	1.83	64	435	Below Cal	#	48
8) Diethyl Ether	2.11	74	1139	0.294	ug/l	96
11) Tert butyl alcohol	3.01	59	5455	4.436	ug/l #	72
13) Acrolein	2.27	56	201	0.204	ug/l #	1
16) Acetone	2.43	43	26585	4.906	ug/l	98
18) Methyl Acetate	2.76	43	6546	0.773	ug/l #	82
20) Methylene Chloride	2.85	84	9428	1.591	ug/l	91
25) 2-Butanone	4.66	43	8145	1.851	ug/l #	83
36) 1,1-Dichloropropene	5.65	75	34612	4.508	ug/l #	49
38) Carbon Tetrachloride	5.65	117	45267	6.407	ug/l #	17
43) Isopropyl Acetate	6.43	43	135713	10.075	ug/l	98
48) Methyl methacrylate	7.87	41	204541	31.703	ug/l #	42
49) 1,4-Dioxane	7.72	88	244	1.785	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	129783	15.810	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	59302	6.391	ug/l #	56
59) 2-Hexanone	9.43	43	150727	23.206	ug/l #	23
68) m/p-Xylenes	10.36	106	3682	0.347	ug/l	88
69) o-Xylene	10.70	106	4100	0.405	ug/l	89
74) N-amyl acetate	10.82	43	7651	0.723	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	160132	22.648	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	5738	0.288	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	160132	59.877	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.80	105	21138	1.050	ug/l	98
88) 1,4-Dichlorobenzene	12.02	146	714	Below Cal		76
93) 1,2,4-Trichlorobenzene	13.64	180	777	Below Cal	#	82
95) Naphthalene	13.83	128	92961	3.647	ug/l	100
96) 1,2,3-Trichlorobenzene	14.01	180	670	Below Cal	#	81

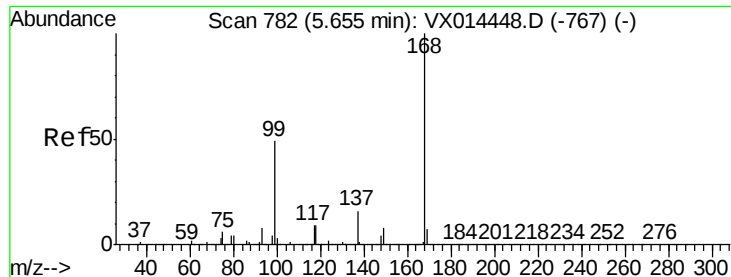
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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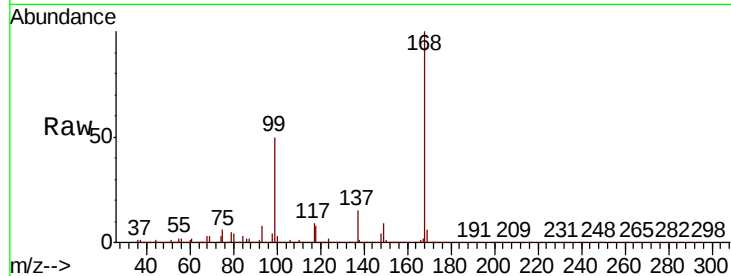


#1

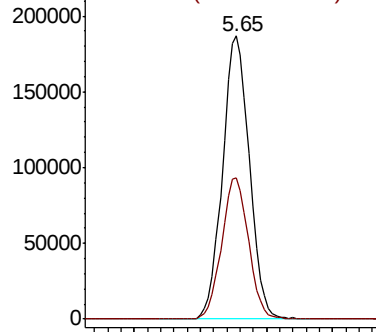
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Instrument :
MSVOA_X
ClientSampled :

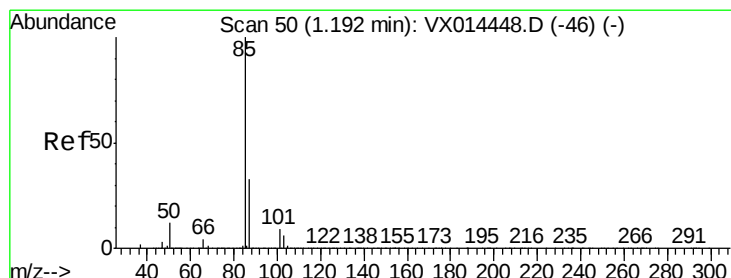
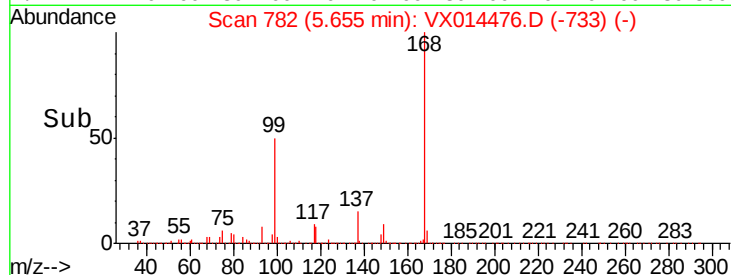
Tot Ion:168 Resp: 527575
Ion Ratio Lower Upper
168 100
99 49.8 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



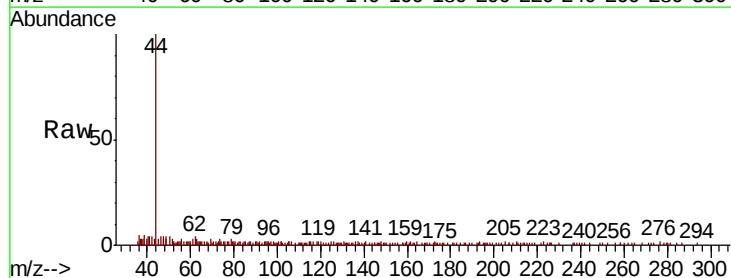
Time-->



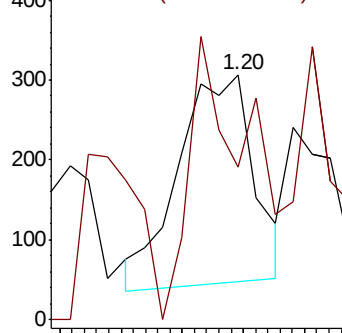
#2

Dichlorodifluoromethane
Concen: 0.321 ug/l
RT: 1.20 min Scan# 51
Delta R.T. 0.01 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

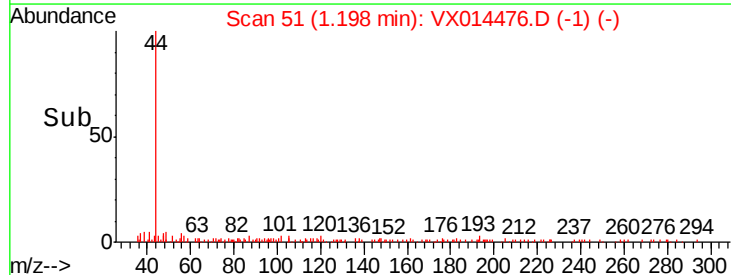
Tgt Ion: 85 Resp: 448
Ion Ratio Lower Upper
85 100
87 25.9 16.5 49.5

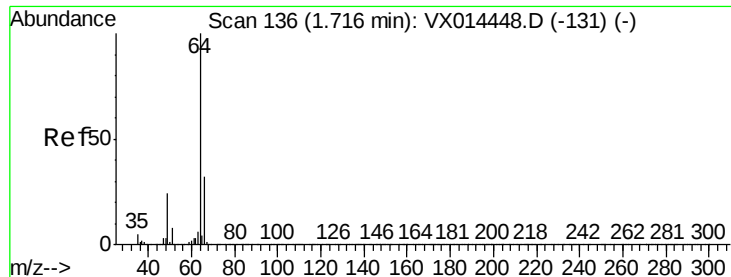


Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0



Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.83 min Scan# 155

Delta R.T. 0.12 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

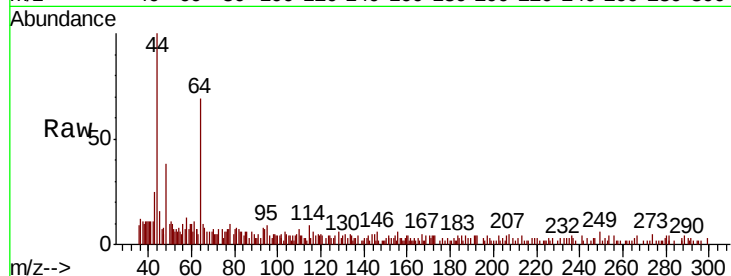
ClientSampled :

Tot Ion: 64 Resp: 435

Ion Ratio Lower Upper

64 100

66 3.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.83

2500

2000

1500

1000

500

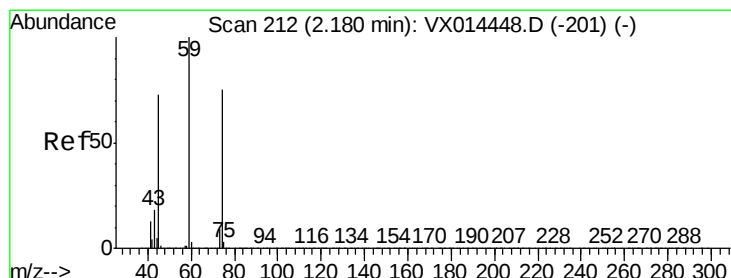
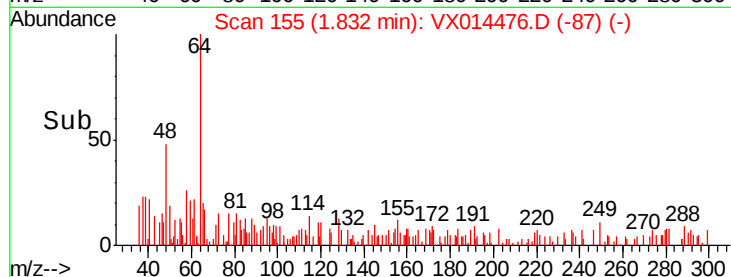
0

1.80

1.82

1.84

Time-->



#8

Diethyl Ether

Concen: 0.294 ug/l

RT: 2.11 min Scan# 201

Delta R.T. -0.07 min

Lab File: VX014476.D

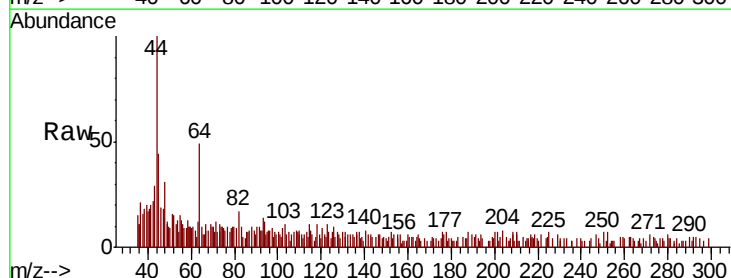
Acq: 08 Jan 2020 17:07

Tgt Ion: 74 Resp: 1139

Ion Ratio Lower Upper

74 100

45 93.8 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1200

1000

800

600

400

200

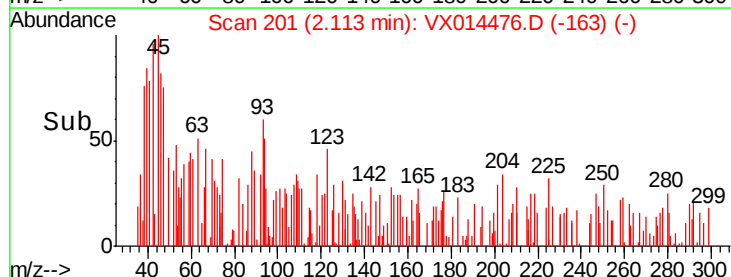
0

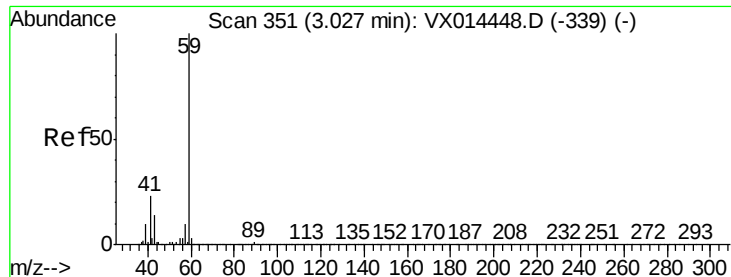
2.05

2.10

2.15

Time-->

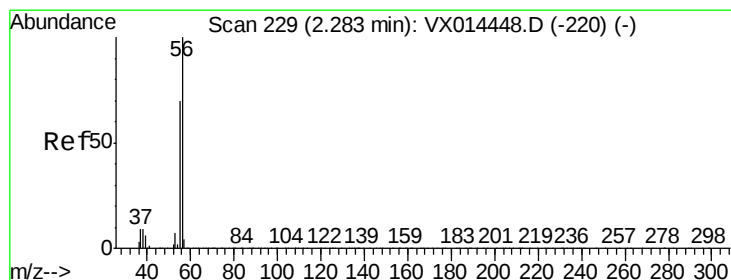
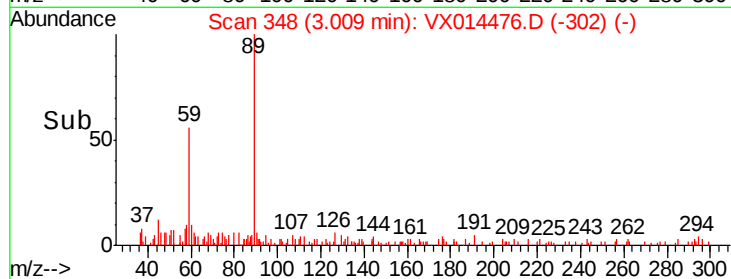
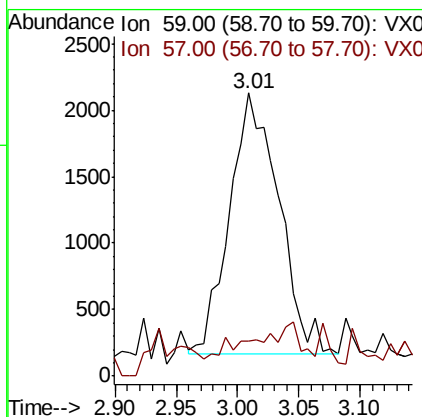
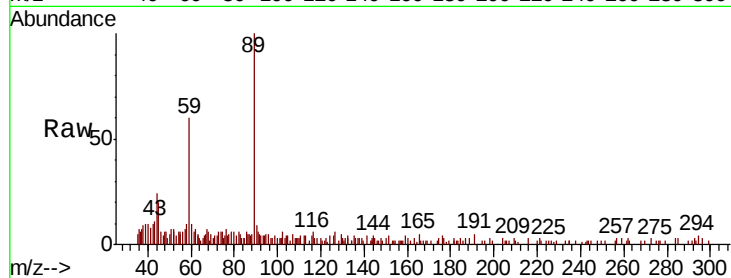




#11
Tert butyl alcohol
Concen: 4.436 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

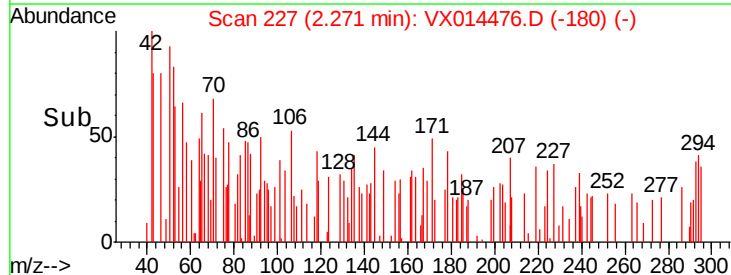
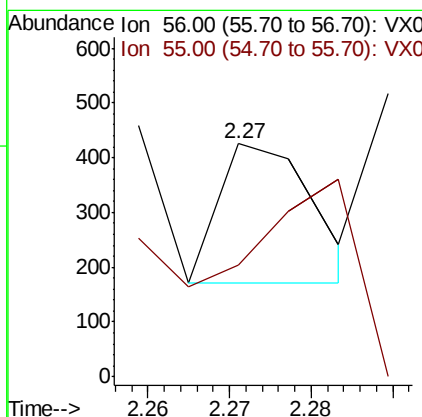
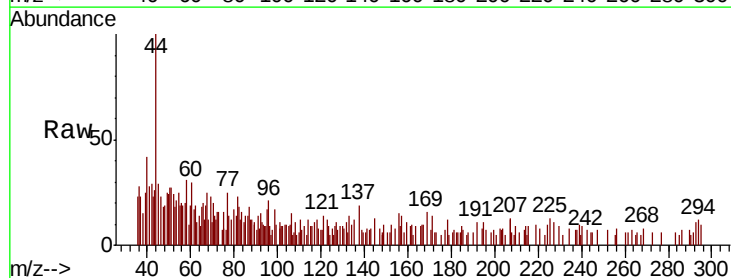
Instrument :
MSVOA_X
ClientSampled :

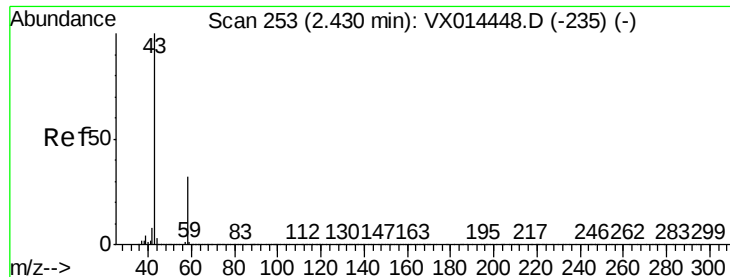
Tot Ion: 59 Resp: 5455
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.204 ug/l
RT: 2.27 min Scan# 227
Delta R.T. -0.01 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 157.7 55.0 82.6#





#16

Acetone

Concen: 4.906 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

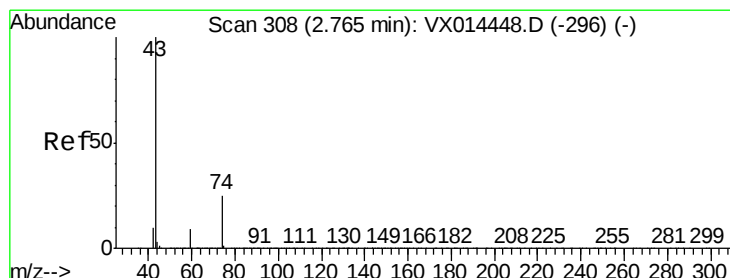
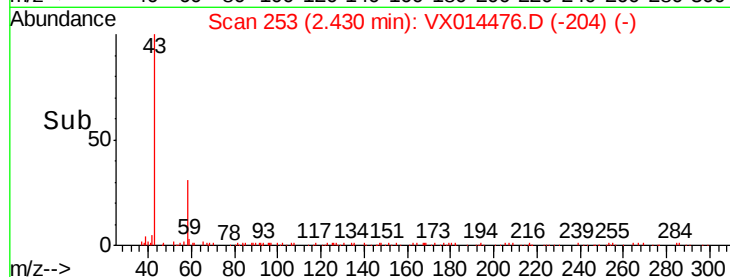
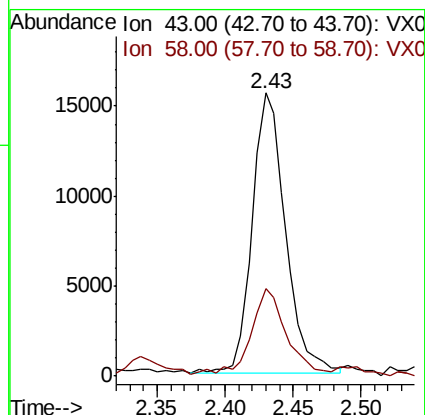
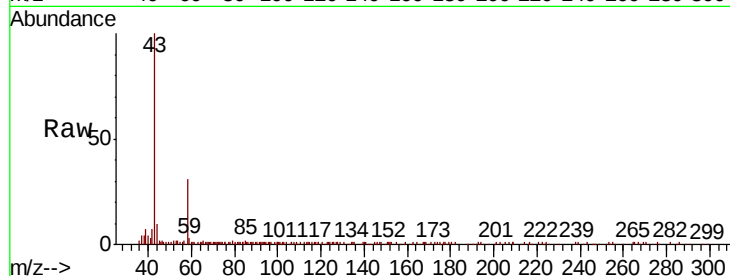
ClientSampleId :

Tot Ion: 43 Resp: 26585

Ion Ratio Lower Upper

43 100

58 30.8 25.4 38.0



#18

Methyl Acetate

Concen: 0.773 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014476.D

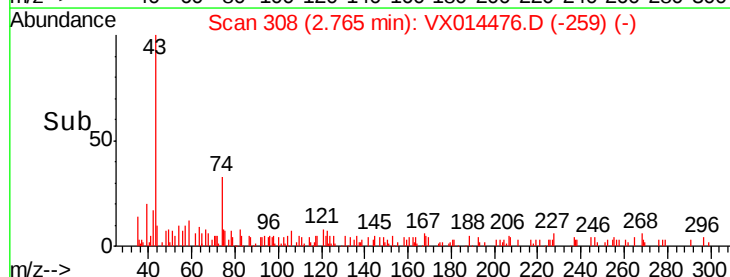
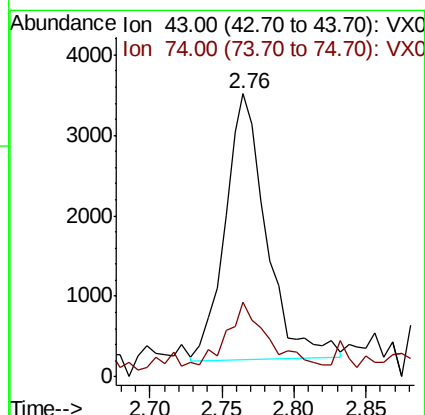
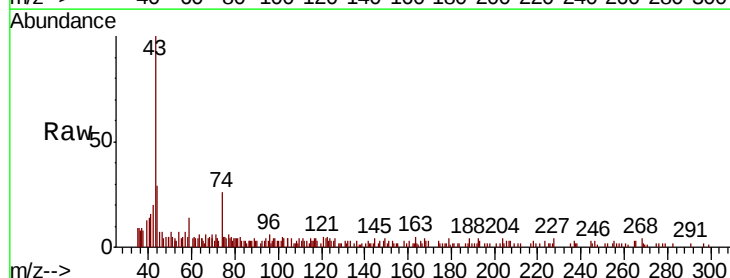
Acq: 08 Jan 2020 17:07

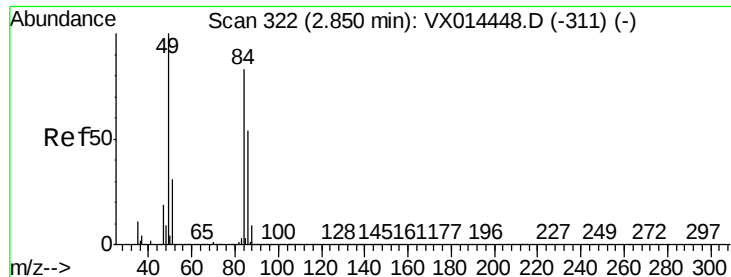
Tgt Ion: 43 Resp: 6546

Ion Ratio Lower Upper

43 100

74 33.2 19.4 29.2#





#20

Methylene Chloride

Concen: 1.591 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 9428

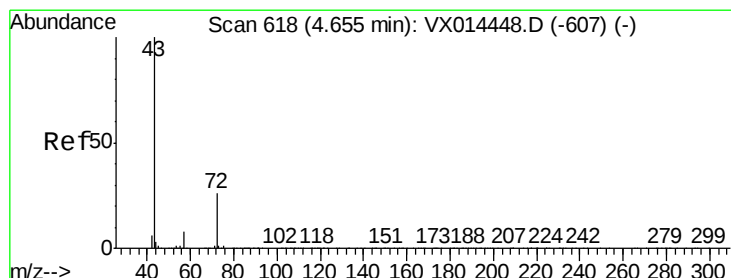
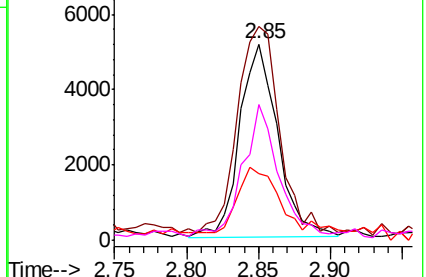
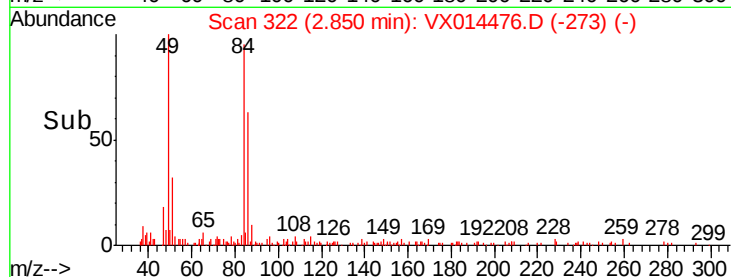
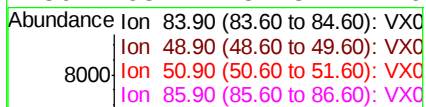
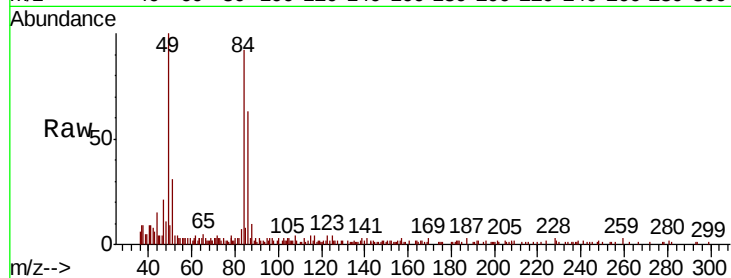
Ion Ratio Lower Upper

84 100

49 107.7 95.8 143.8

51 30.5 30.2 45.4

86 68.7 51.8 77.6



#25

2-Butanone

Concen: 1.851 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014476.D

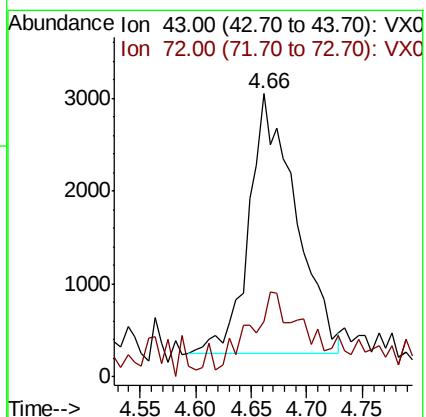
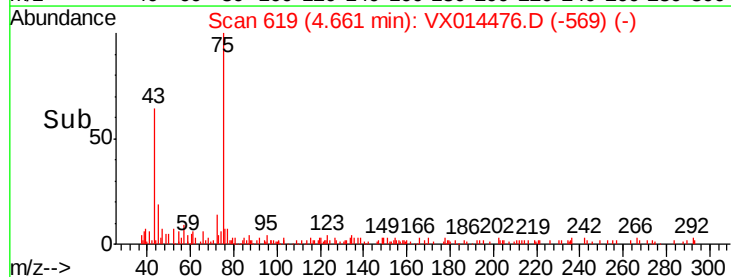
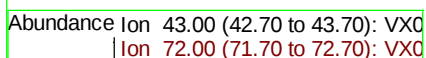
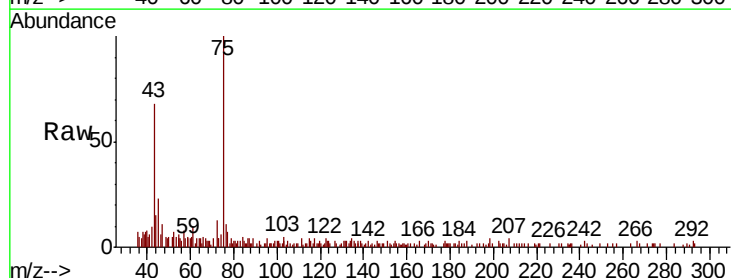
Acq: 08 Jan 2020 17:07

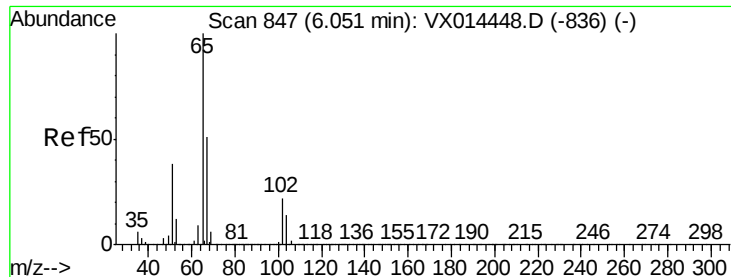
Tgt Ion: 43 Resp: 8145

Ion Ratio Lower Upper

43 100

72 17.0 20.6 31.0#





#33

1,2-Dichloroethane-d4

Concen: 48.772 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

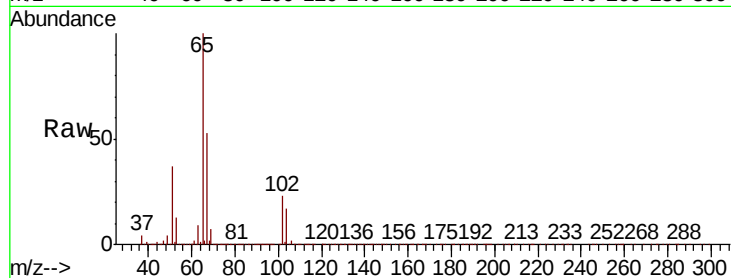
ClientSampleId :

Tot Ion: 65 Resp: 287244

Ion Ratio Lower Upper

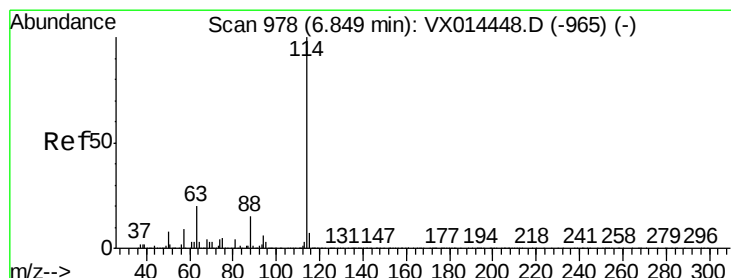
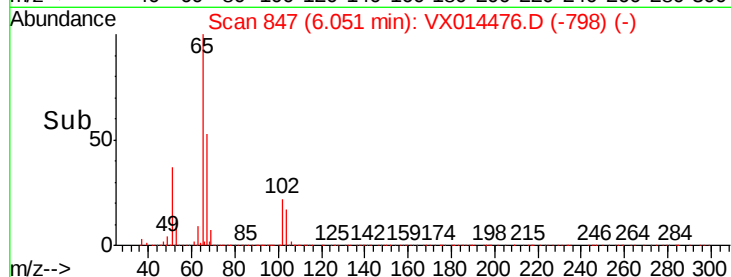
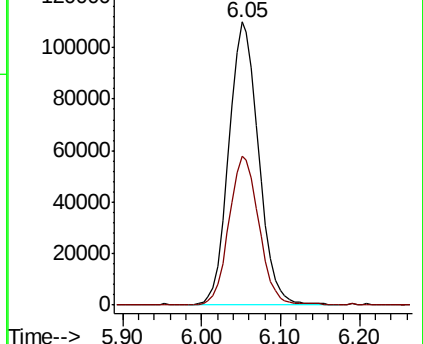
65 100

67 52.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

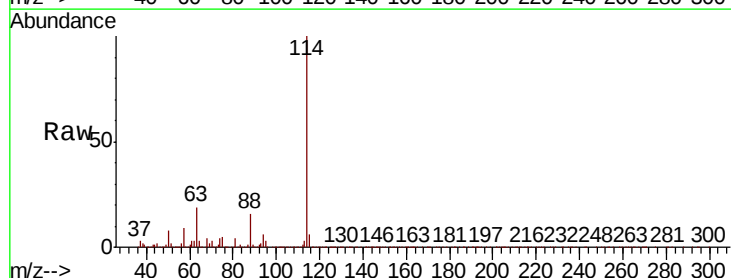
Tgt Ion: 114 Resp: 816358

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

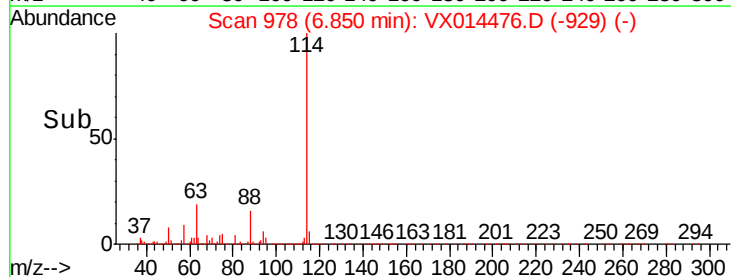
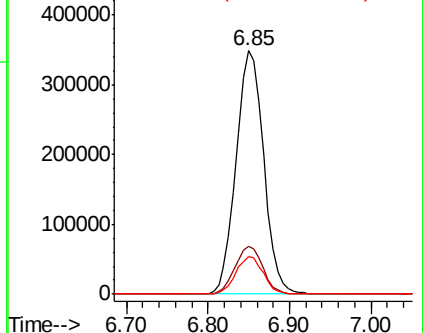
88 15.5 0.0 30.8

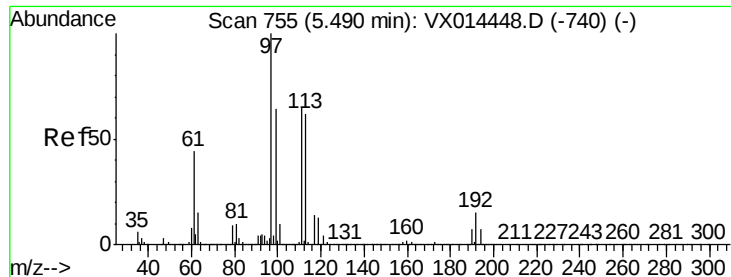


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

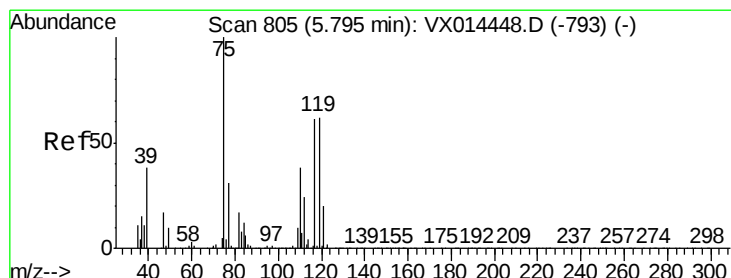
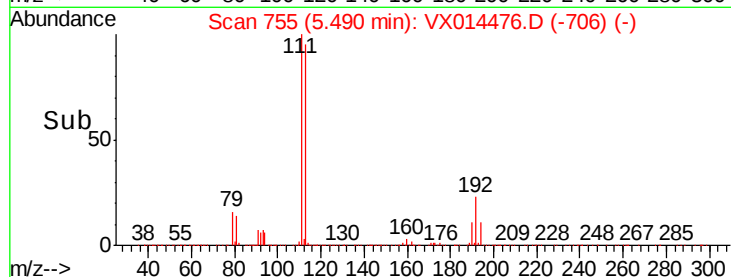
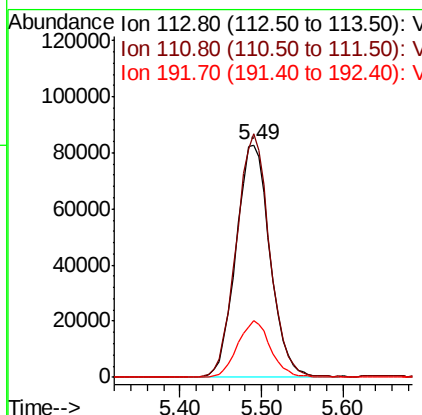
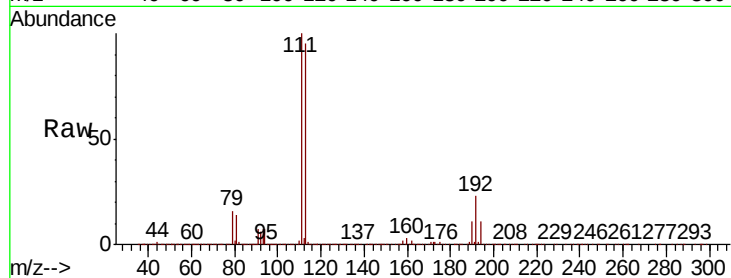




#35
 Dibromofluoromethane
 Concen: 48.309 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014476.D
 Acq: 08 Jan 2020 17:07

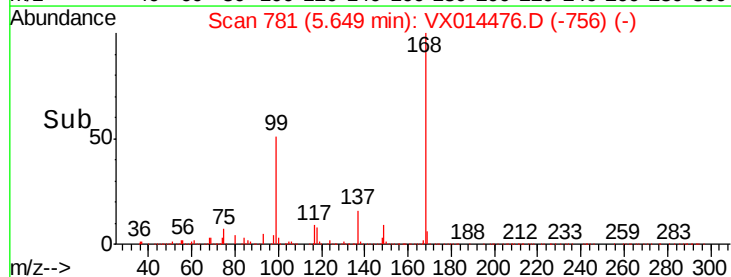
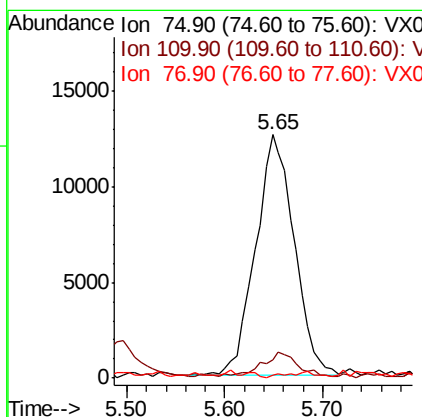
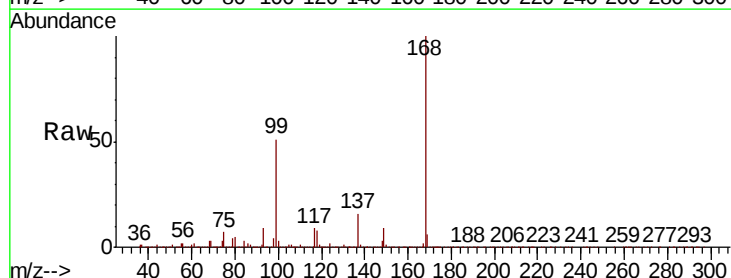
Instrument :
 MSVOA_X
 ClientSampled :

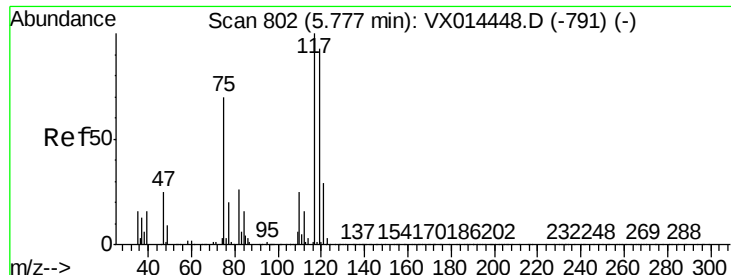
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.5	122.3
192	23.9	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.508 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014476.D
 Acq: 08 Jan 2020 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.6	55.8#
77	0.6	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.407 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

ClientSampleId :

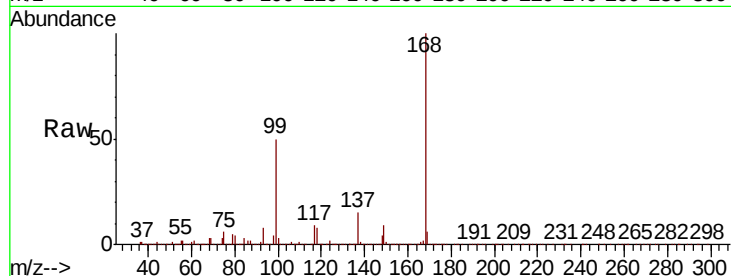
Tot Ion:117 Resp: 45267

Ion Ratio Lower Upper

117 100

119 4.0 73.8 110.8#

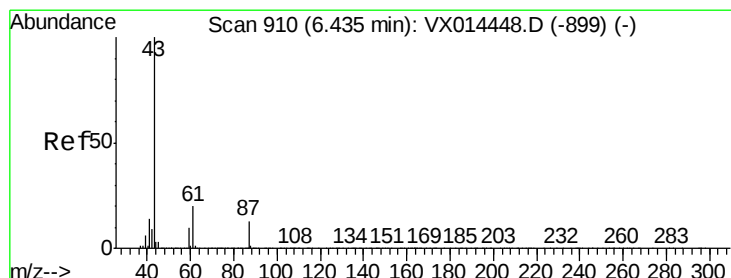
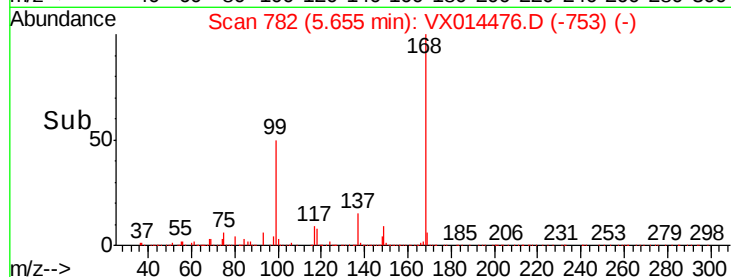
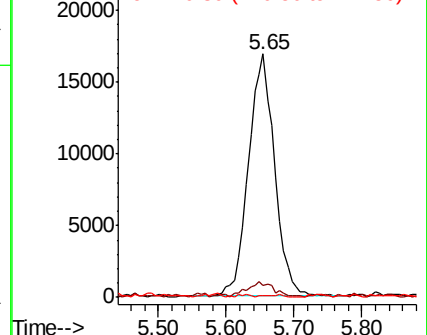
121 0.0 23.4 35.0#



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



#43

Isopropyl Acetate

Concen: 10.075 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

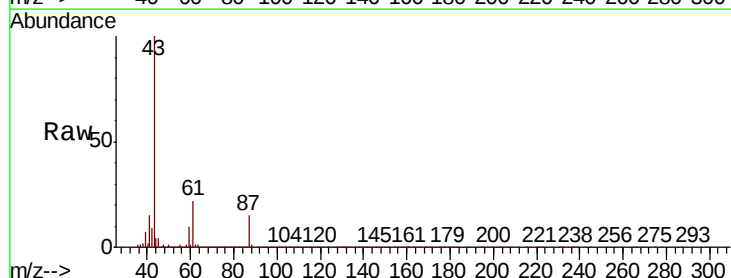
Tgt Ion: 43 Resp: 135713

Ion Ratio Lower Upper

43 100

61 19.9 16.6 24.8

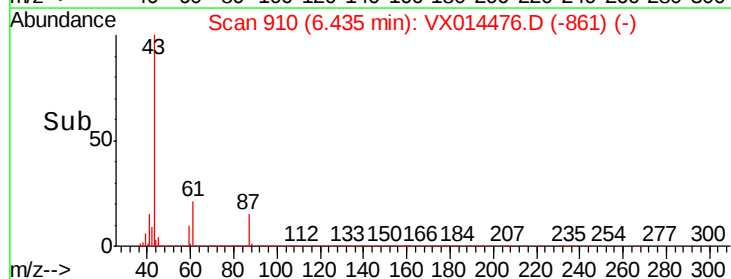
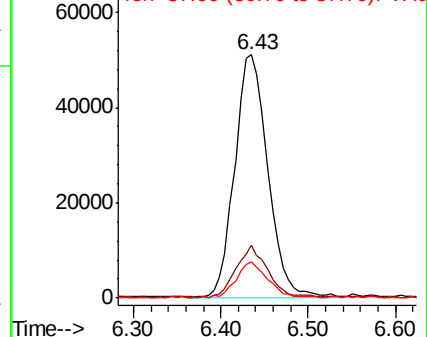
87 14.6 10.8 16.2

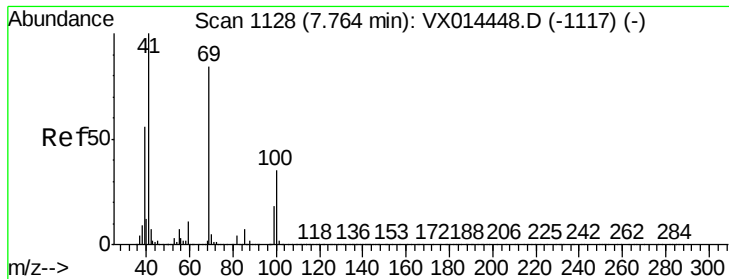


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

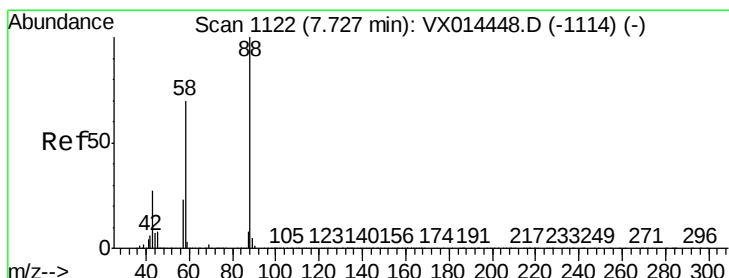
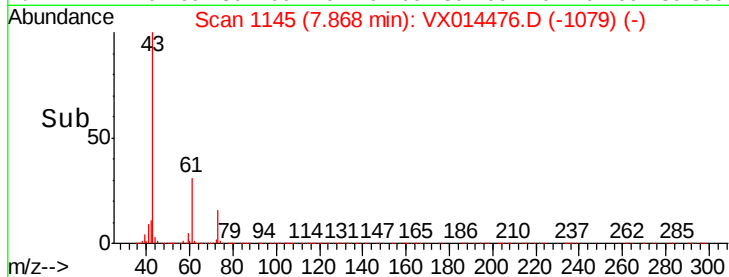
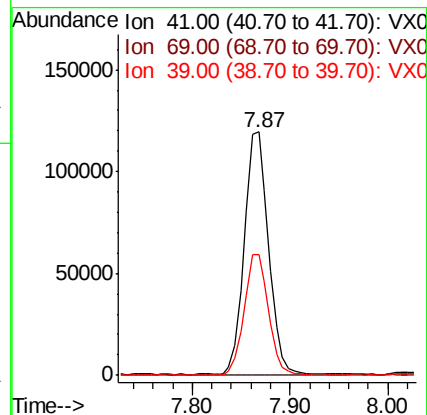
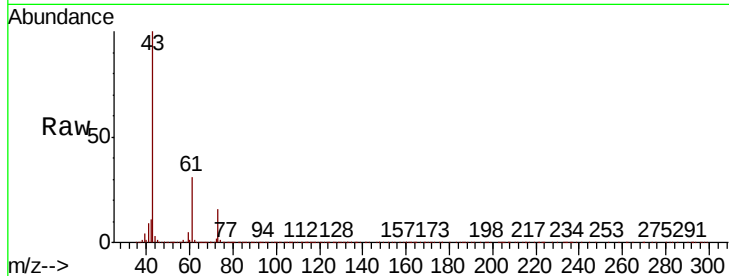




#48
Methyl methacrylate
Concen: 31.703 ug/l
RT: 7.87 min Scan# 1145
Delta R.T. 0.10 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

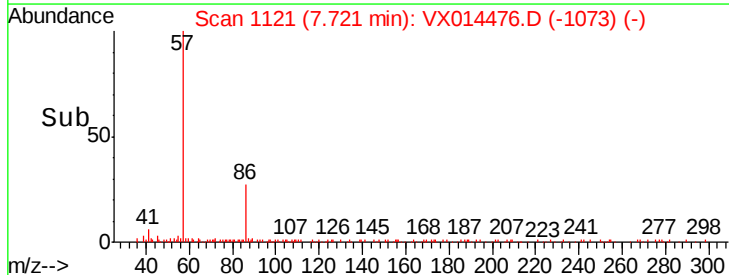
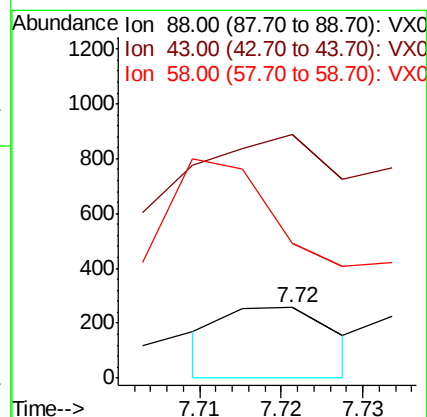
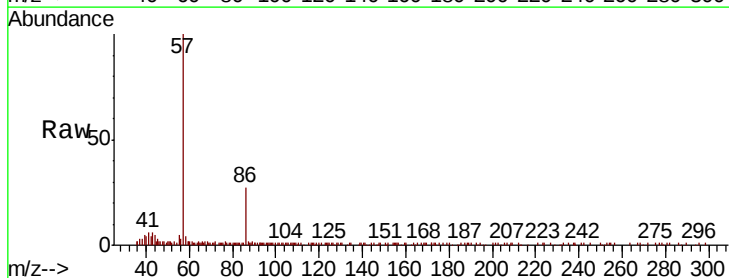
Instrument :
MSVOA_X
ClientSampleId :

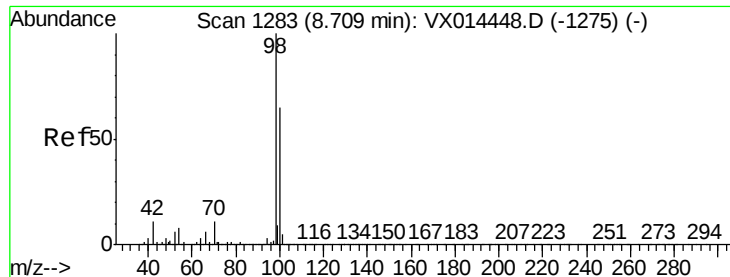
Tot Ion: 41 Resp: 204541
Ion Ratio Lower Upper
41 100
69 0.4 65.5 98.3#
39 49.7 43.9 65.9



#49
1,4-Dioxane
Concen: 1.785 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Tgt Ion: 88 Resp: 244
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 370.5 57.1 85.7#





#50

Toluene-d8

Concen: 50.952 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

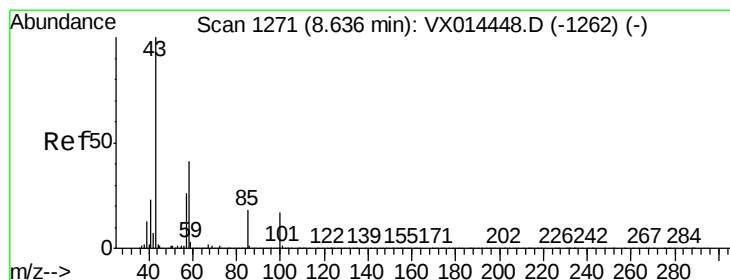
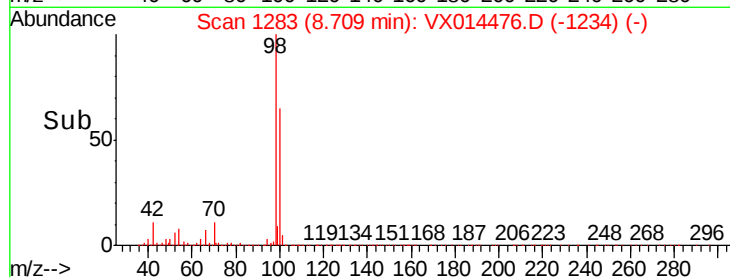
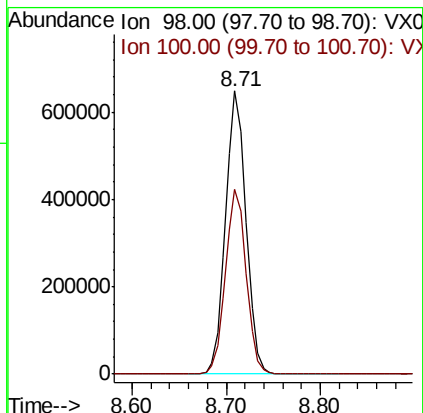
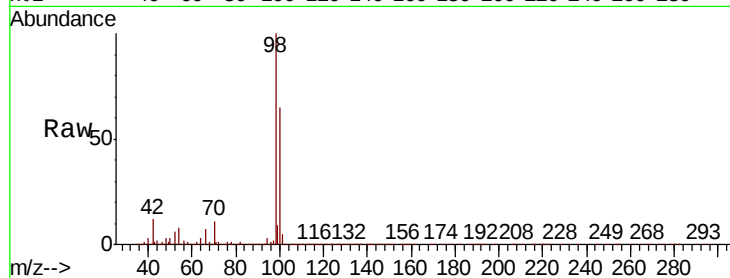
ClientSampleId :

Tot Ion: 98 Resp: 977117

Ion Ratio Lower Upper

98 100

100 66.0 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.810 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014476.D

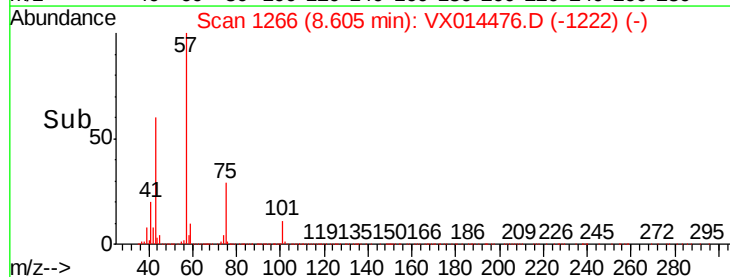
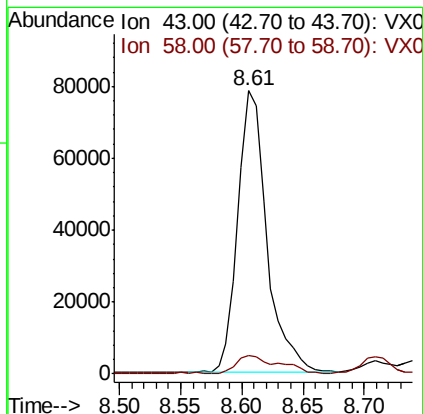
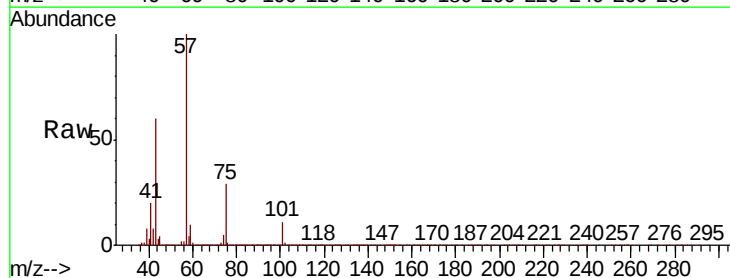
Acq: 08 Jan 2020 17:07

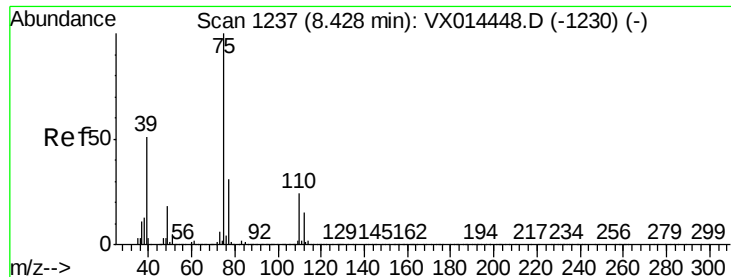
Tgt Ion: 43 Resp: 129783

Ion Ratio Lower Upper

43 100

58 9.0 32.4 48.6#



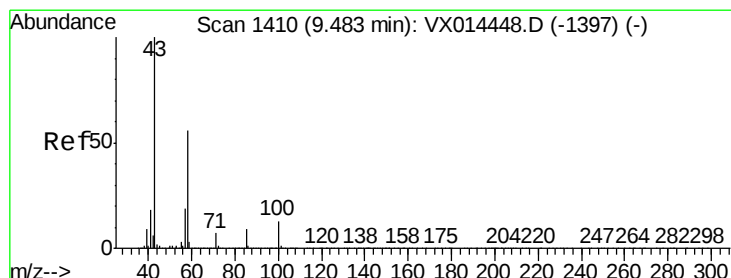
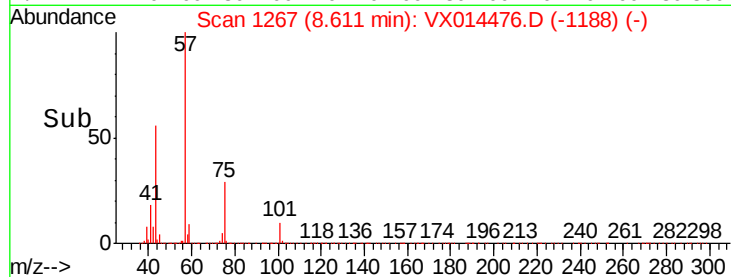
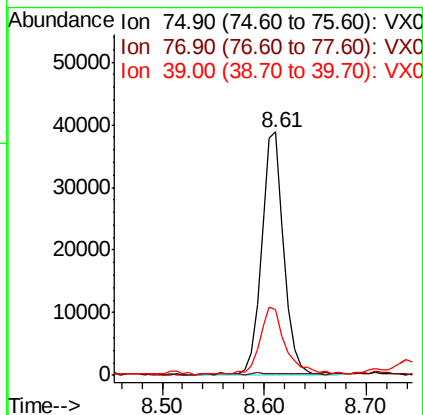
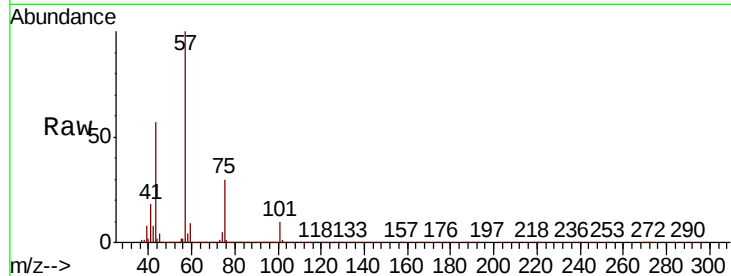


#54

cis-1,3-Dichloropropene
 Concen: 6.391 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX014476.D
 Acq: 08 Jan 2020 17:07

Instrument :
 MSVOA_X
 ClientSampled :

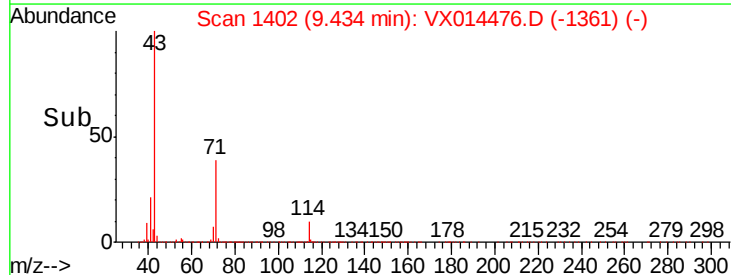
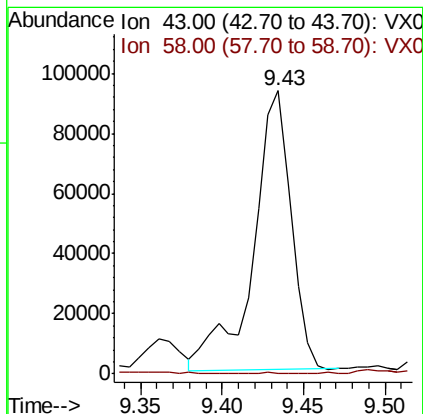
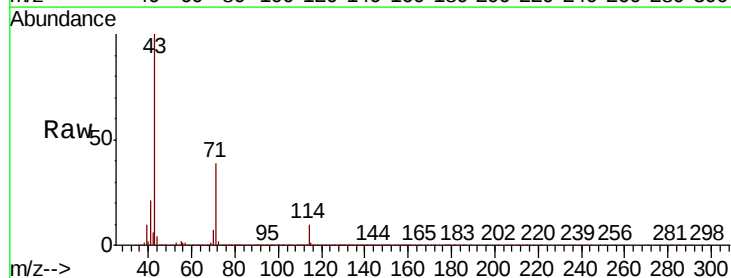
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.1	25.0	37.4#
39	25.6	40.7	61.1#

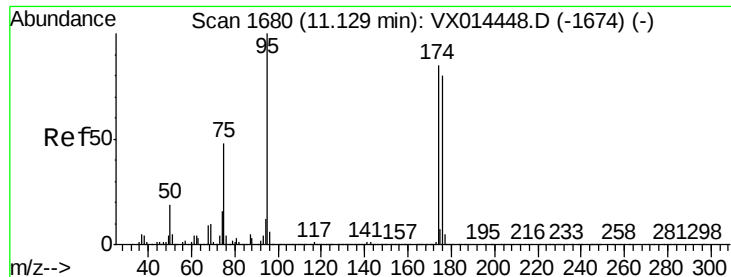


#59

2-Hexanone
 Concen: 23.206 ug/l
 RT: 9.43 min Scan# 1402
 Delta R.T. -0.05 min
 Lab File: VX014476.D
 Acq: 08 Jan 2020 17:07

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	83.7#

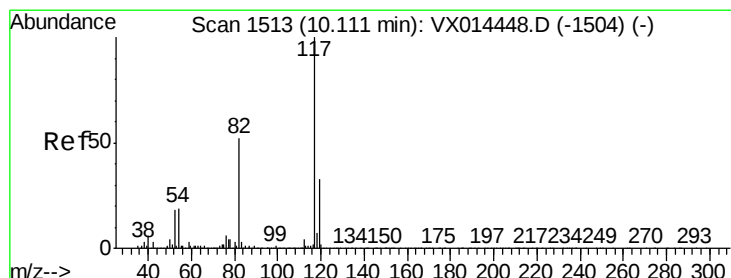
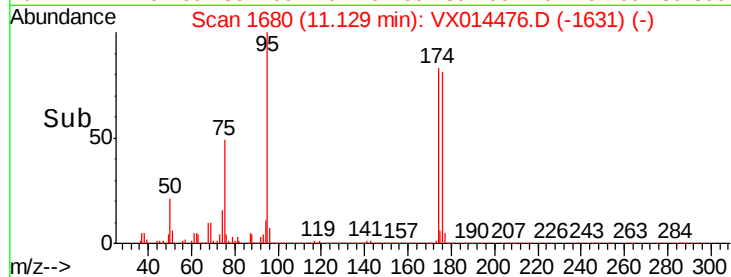
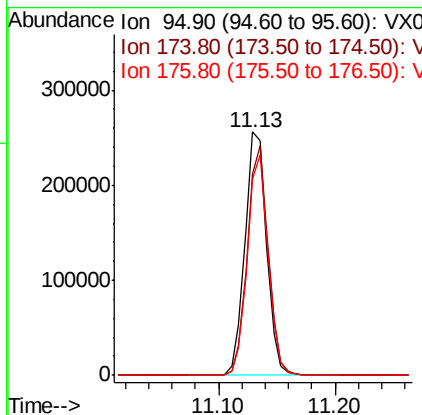
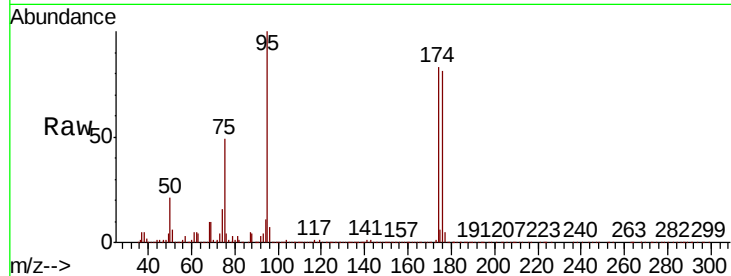




#62
4-Bromofluorobenzene
Concen: 47.515 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

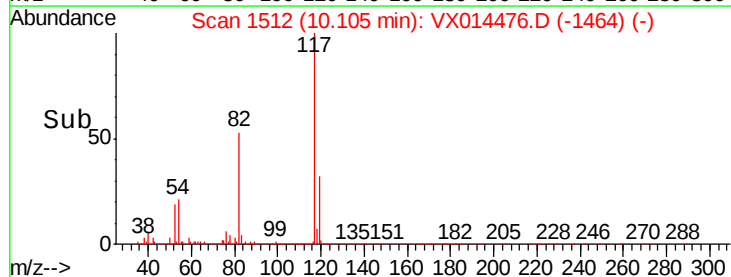
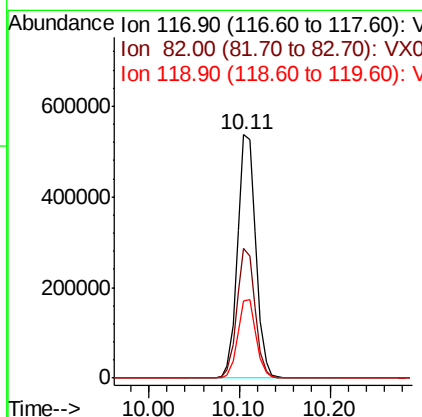
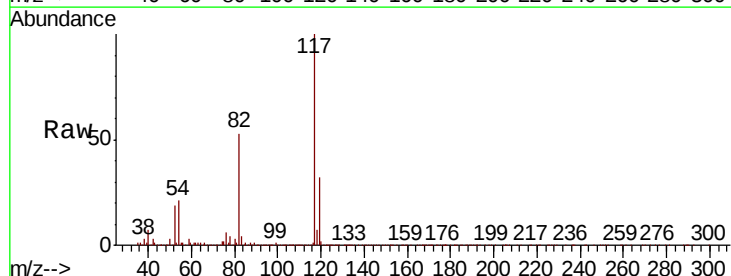
Instrument :
MSVOA_X
ClientSampleId :

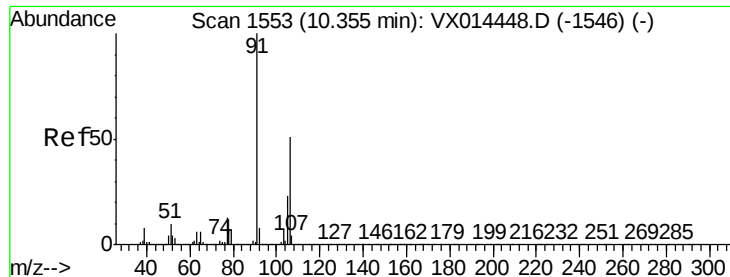
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	180.8
176	87.0	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	41.8	62.6
119	31.7	26.2	39.4





#68

m/p-Xylenes

Concen: 0.347 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

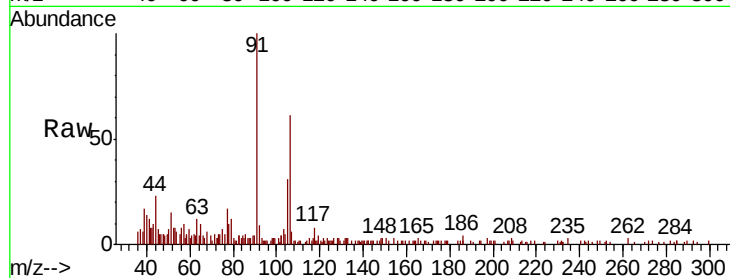
ClientSampleId :

Tot Ion:106 Resp: 3682

Ion Ratio Lower Upper

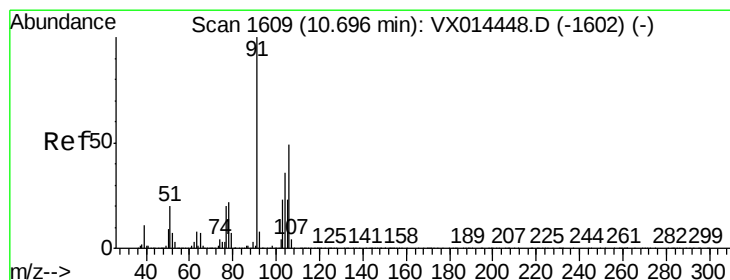
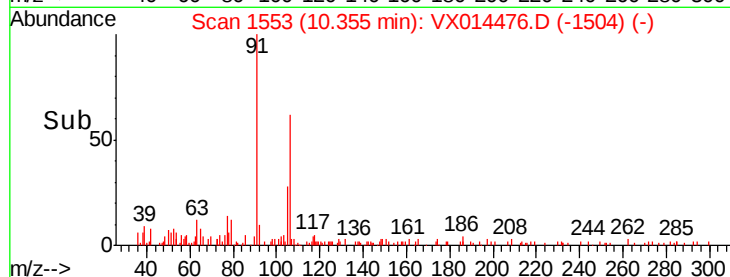
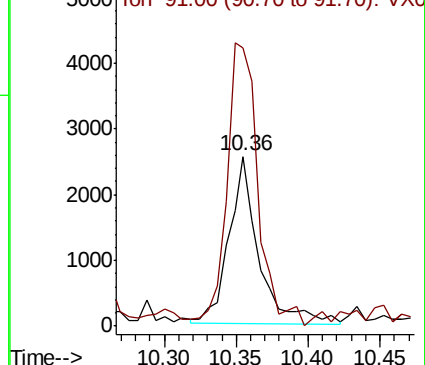
106 100

91 178.5 157.4 236.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.405 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. 0.00 min

Lab File: VX014476.D

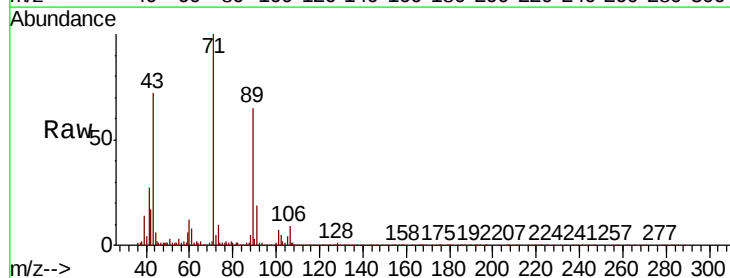
Acq: 08 Jan 2020 17:07

Tgt Ion:106 Resp: 4100

Ion Ratio Lower Upper

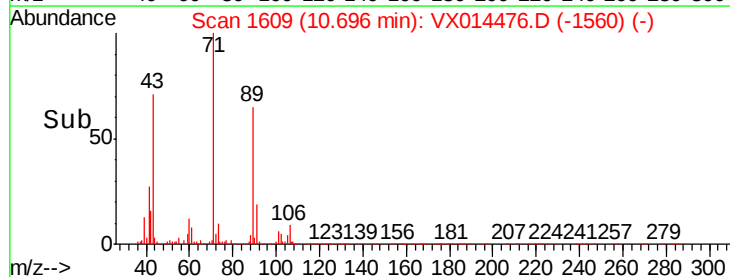
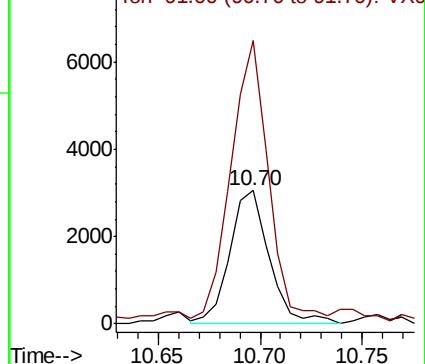
106 100

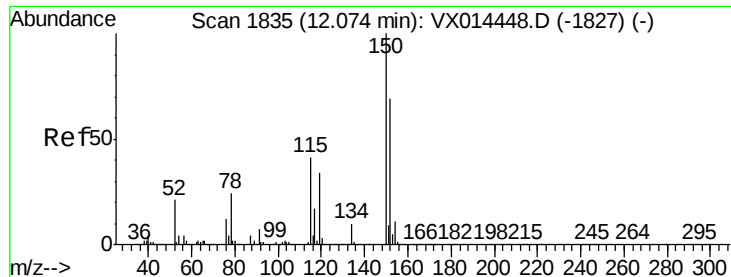
91 193.7 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

ClientSampleId :

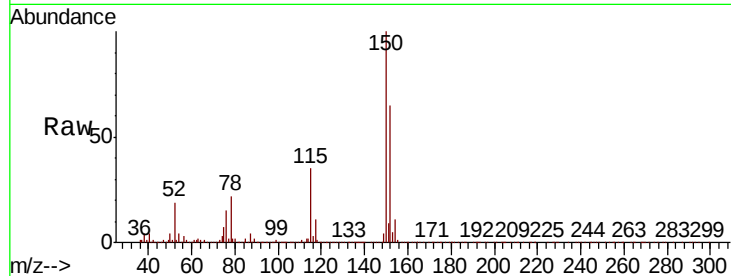
Tot Ion:152 Resp: 341729

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

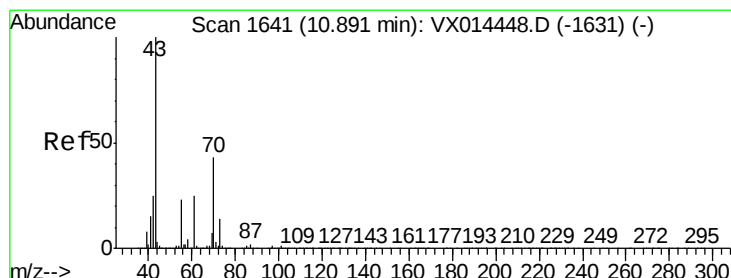
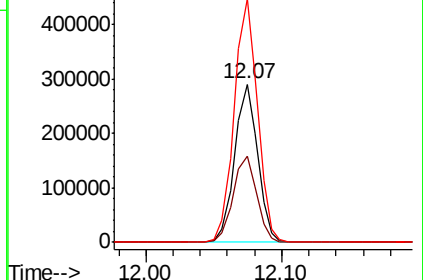
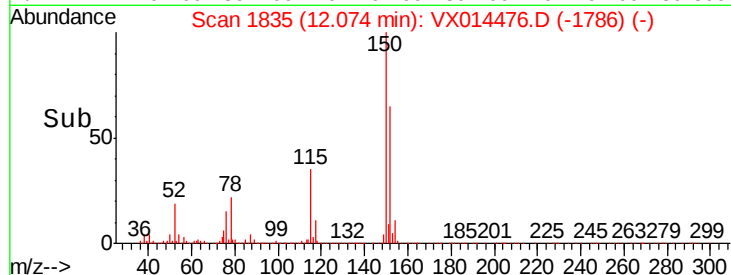
150 155.3 0.0 350.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.723 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Tgt Ion: 43 Resp: 7651

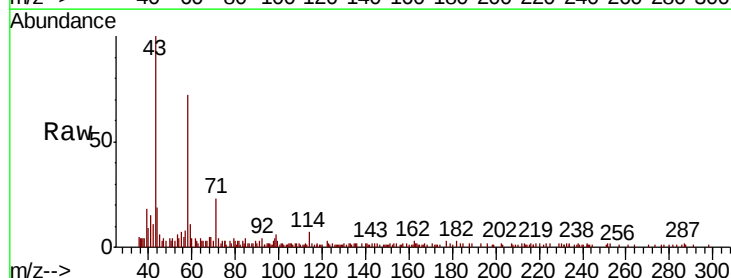
Ion Ratio Lower Upper

43 100

70 8.1 35.1 52.7#

55 9.5 19.3 28.9#

61 5.9 20.0 30.0#

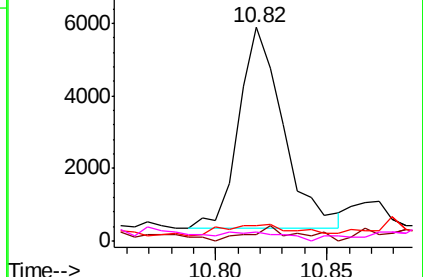
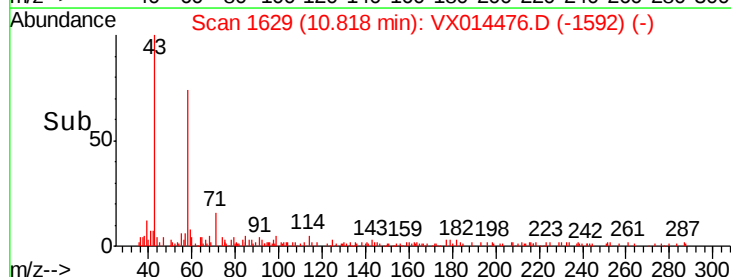


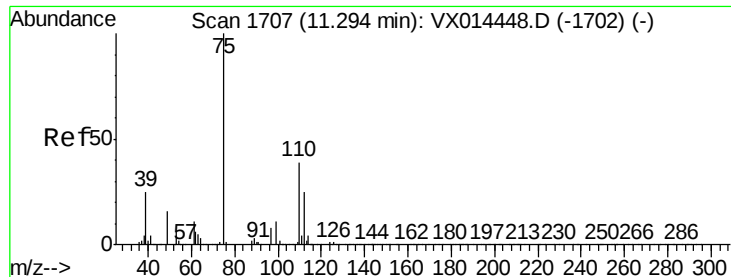
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.648 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

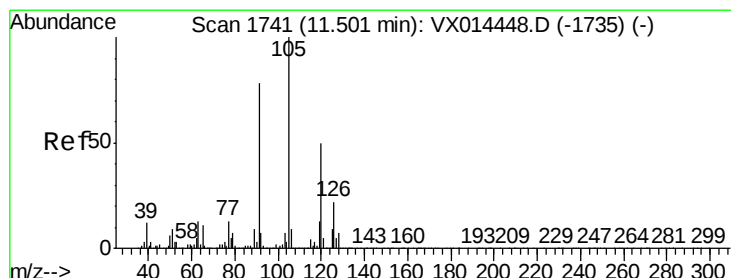
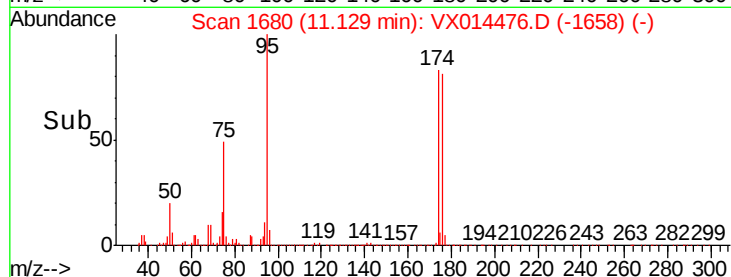
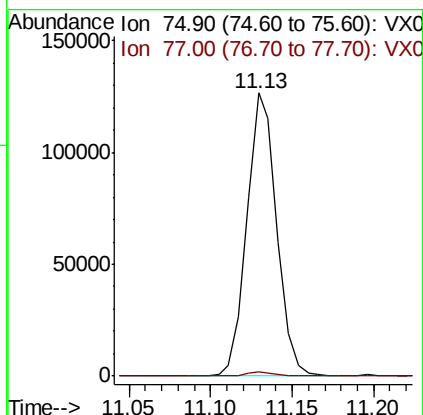
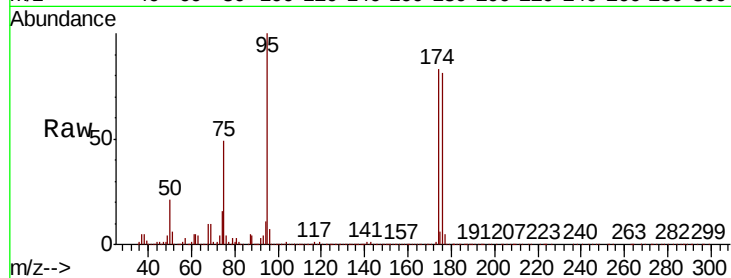
ClientSampled :

Tot Ion: 75 Resp: 160132

Ion Ratio Lower Upper

75 100

77 1.5 21.9 65.7#



#80

1,3,5-Trimethylbenzene

Concen: 0.288 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014476.D

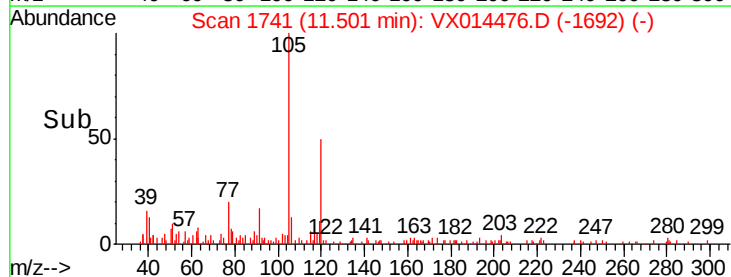
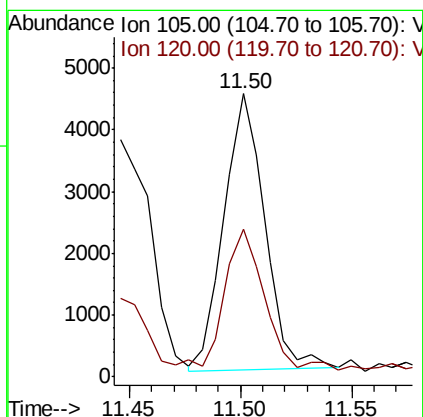
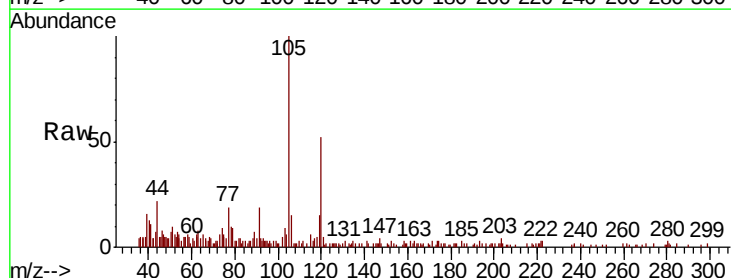
Acq: 08 Jan 2020 17:07

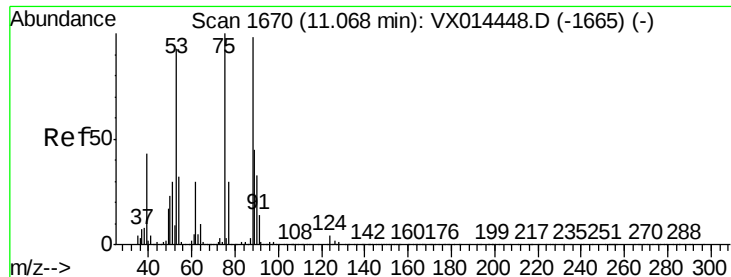
Tgt Ion:105 Resp: 5738

Ion Ratio Lower Upper

105 100

120 55.9 25.2 75.6





#81

trans-1,4-Dichloro-2-butene

Concen: 59.877 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014476.D

Acq: 08 Jan 2020 17:07

Instrument :

MSVOA_X

ClientSampleId :

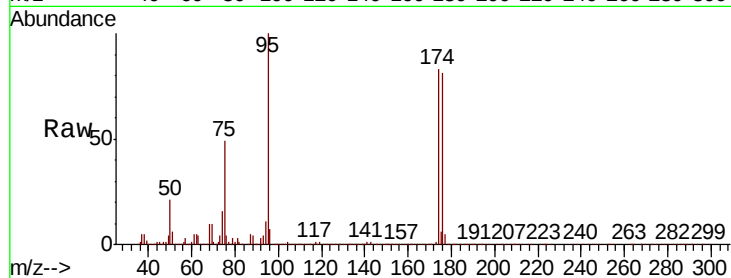
Tot Ion: 75 Resp: 160132

Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

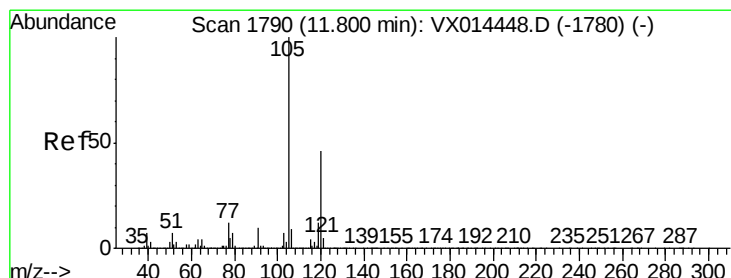
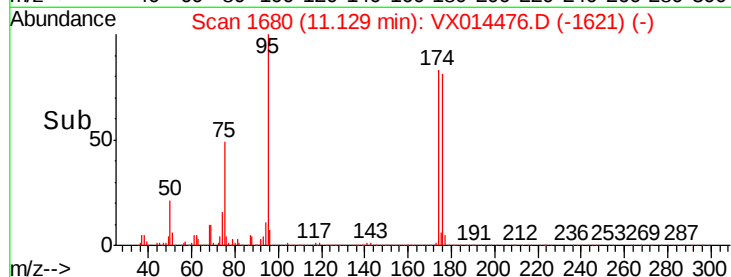
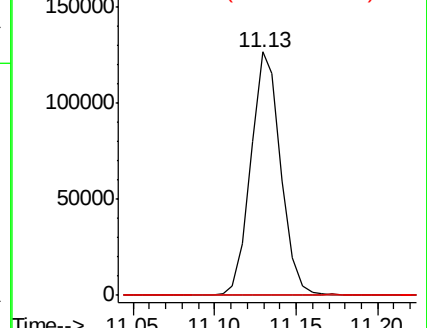
89 0.2 36.3 54.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.050 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX014476.D

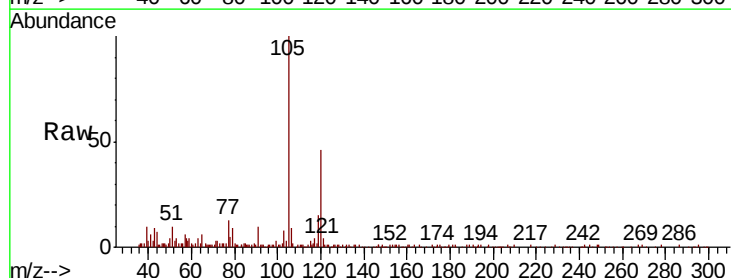
Acq: 08 Jan 2020 17:07

Tgt Ion: 105 Resp: 21138

Ion Ratio Lower Upper

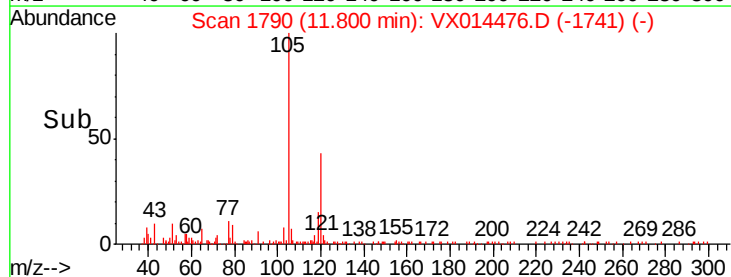
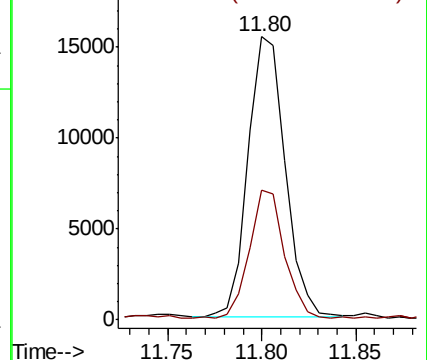
105 100

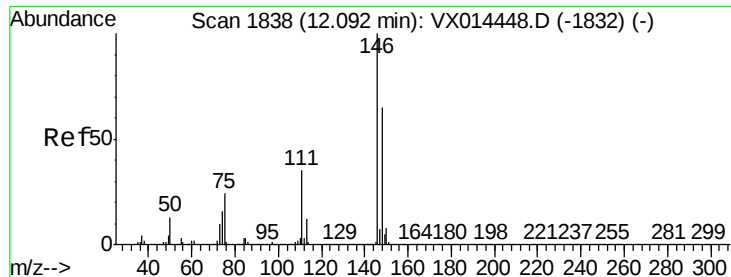
120 44.8 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

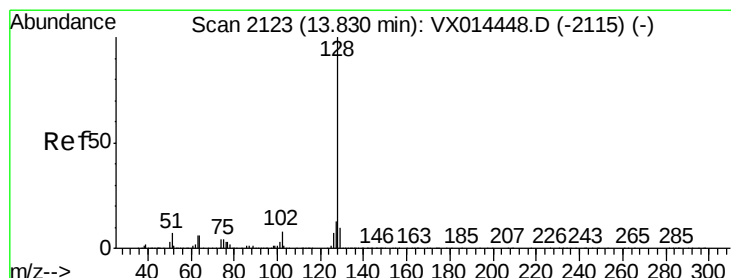
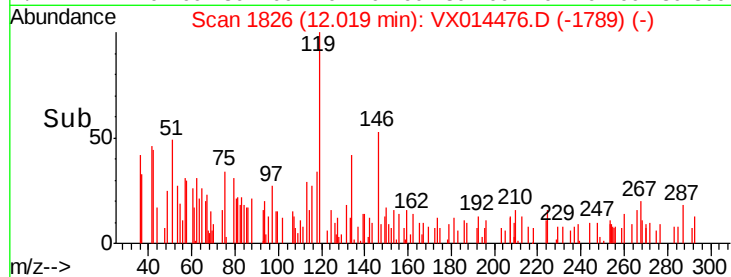
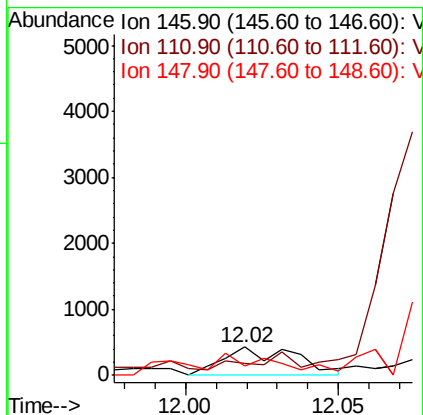
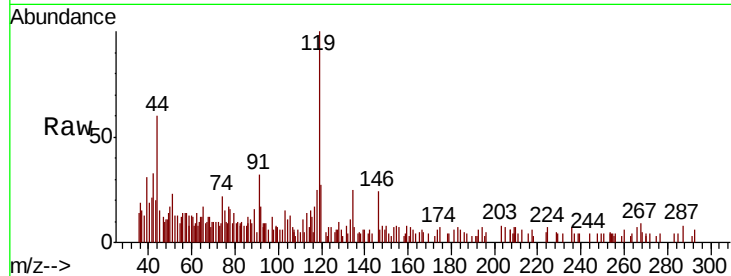




#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.02 min Scan# 1826
Delta R.T. -0.07 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:146 Resp: 714
Ion Ratio Lower Upper
146 100
111 32.5 18.1 54.1
148 38.1 32.1 96.3



#95
Naphthalene
Concen: 3.647 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014476.D
Acq: 08 Jan 2020 17:07

Tgt Ion:128 Resp: 92961
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 11.2 8.7 13.1

