

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012820\
 Data File : VX014749.D
 Acq On : 28 Jan 2020 14:25
 Operator : JC/SP
 Sample : L1268-01ME 100X
 Misc : 2.58g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 23:19:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	421110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	652572	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	609019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	283436	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	247221	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
35) Dibromofluoromethane	5.48	113	205925	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
50) Toluene-d8	8.71	98	792314	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	11.13	95	274067	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

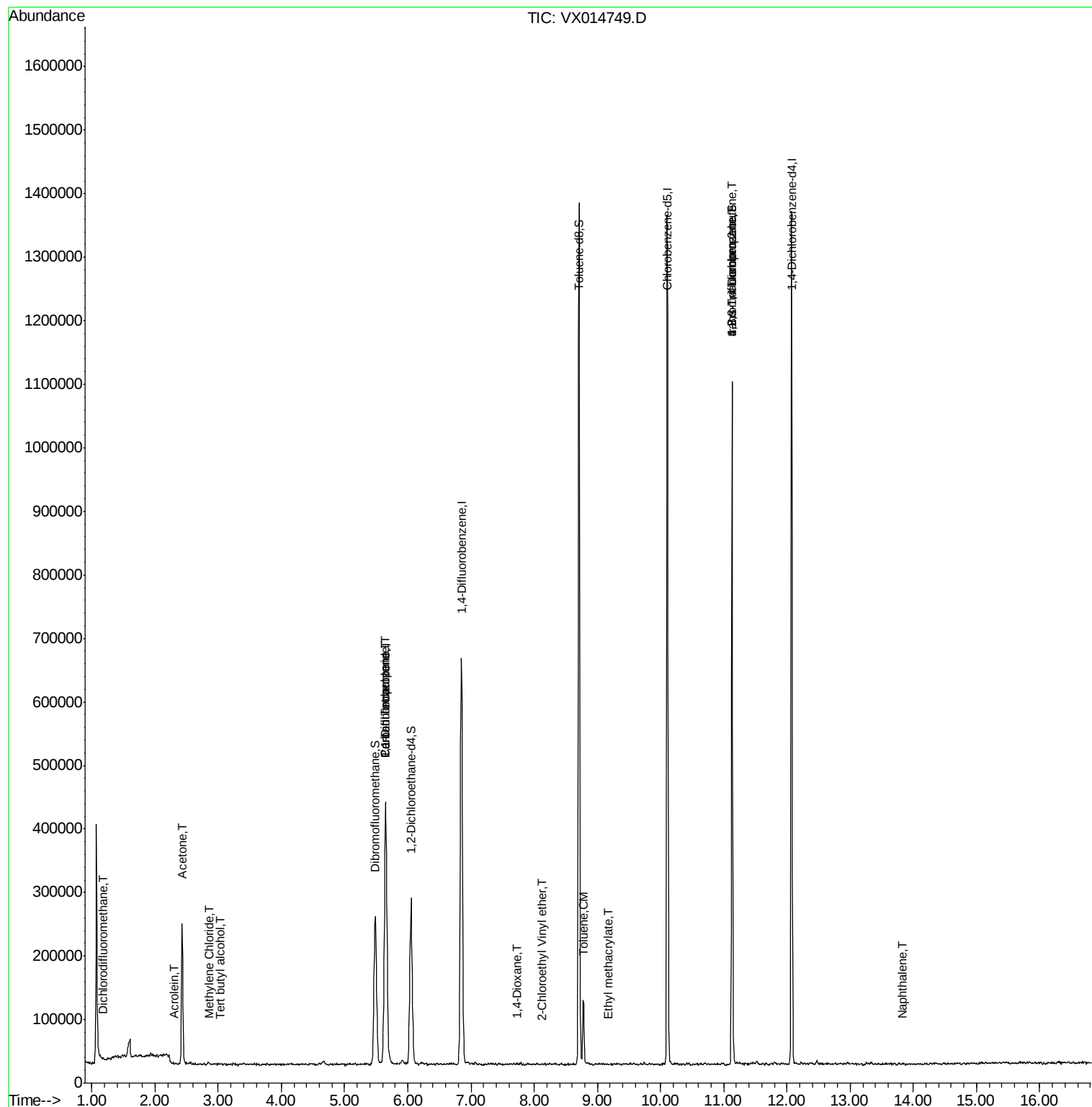
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	678	0.650	ug/l	78
6) Chloroethane	1.70	64	207	Below Cal	#	49
11) Tert butyl alcohol	3.03	59	565	0.512	ug/l #	1
13) Acrolein	2.31	56	780	0.896	ug/l #	64
16) Acetone	2.43	43	240355	89.277	ug/l	99
20) Methylene Chloride	2.85	84	2256	0.452	ug/l #	70
36) 1,1-Dichloropropene	5.64	75	28522	4.704	ug/l #	52
38) Carbon Tetrachloride	5.65	117	37959	6.555	ug/l #	15
41) Methacrylonitrile	5.02	41	110	Below Cal	#	1
49) 1,4-Dioxane	7.73	88	190	1.650	ug/l #	50
52) Toluene	8.78	92	39730	3.450	ug/l	100
56) Ethyl methacrylate	9.17	69	183	1.807	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.14	63	500	0.211	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	135335	20.523	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	135335	58.404	ug/l #	11
95) Naphthalene	13.83	128	522	0.957	ug/l #	47

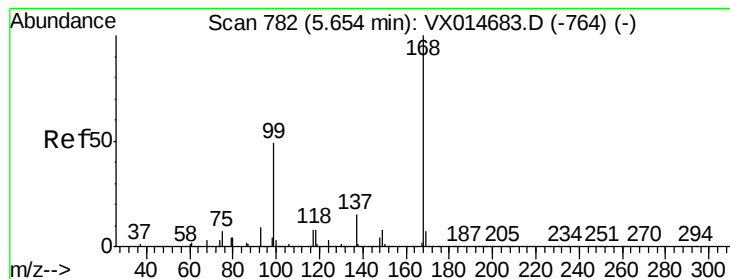
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 22 12:35:15 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

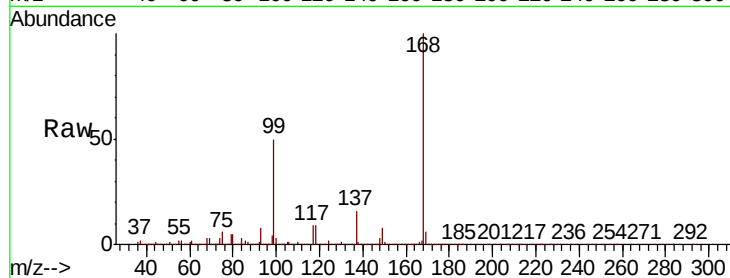
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 421110

Ion Ratio Lower Upper

168 100

99 50.0 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

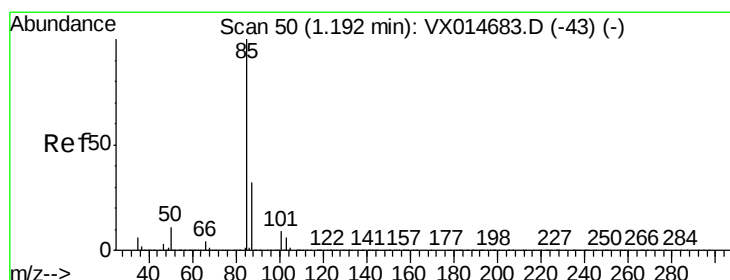
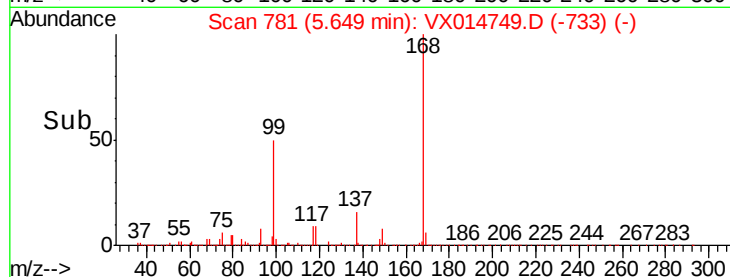
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.650 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014749.D

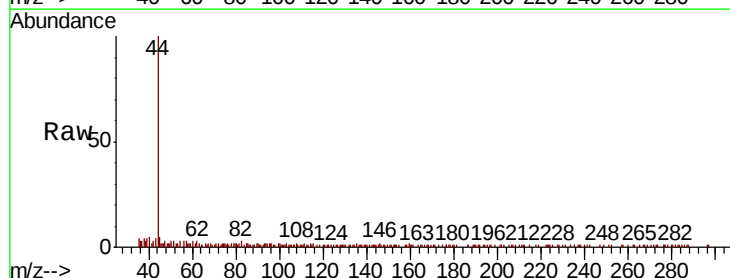
Acq: 28 Jan 2020 14:25

Tgt Ion: 85 Resp: 678

Ion Ratio Lower Upper

85 100

87 19.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

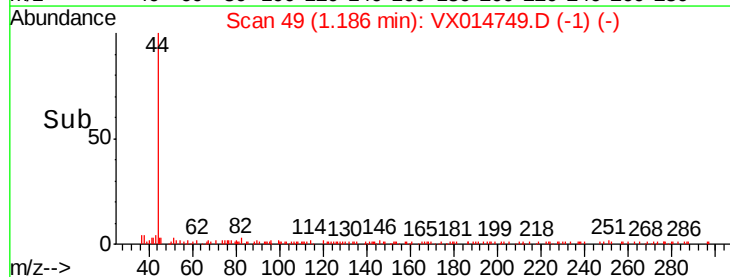
200

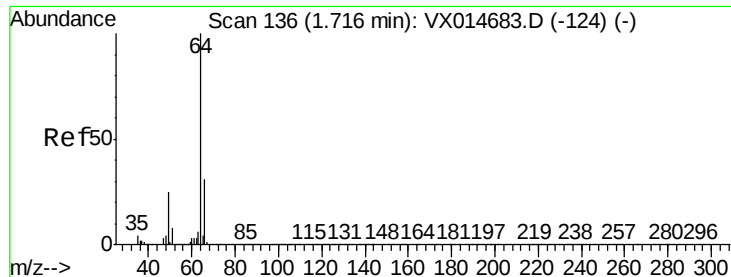
100

0

Time-->

1.15 1.20





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 133

Delta R.T. -0.02 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

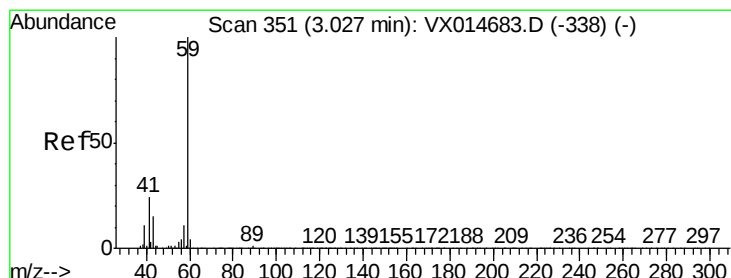
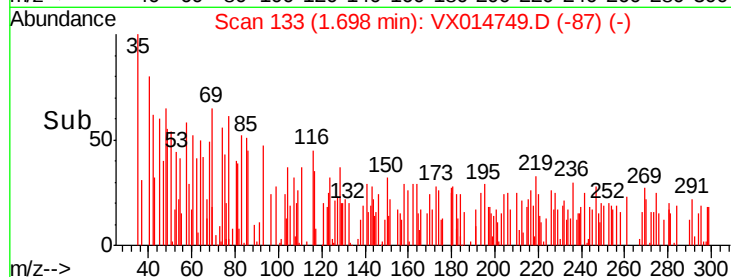
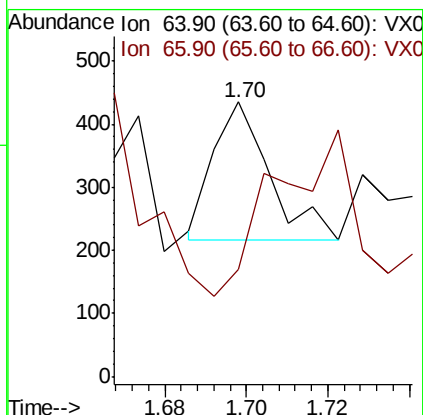
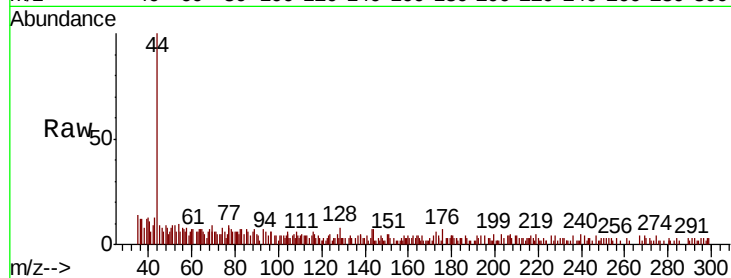
ClientSampleId :

Tot Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 3.2 25.2 37.8#



#11

Tert butyl alcohol

Concen: 0.512 ug/l

RT: 3.03 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX014749.D

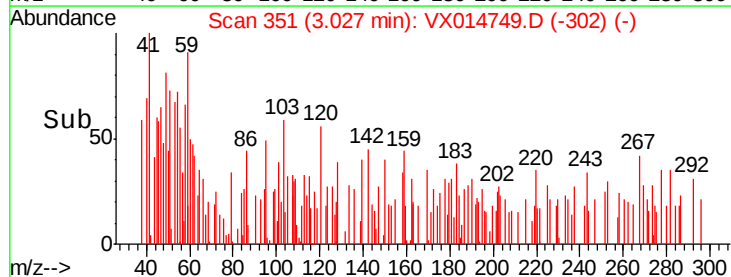
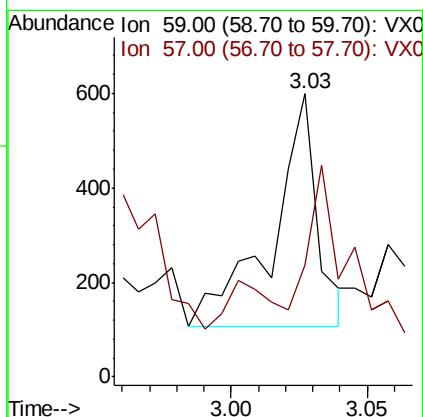
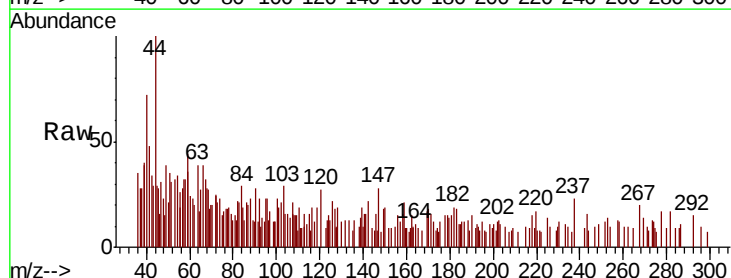
Acq: 28 Jan 2020 14:25

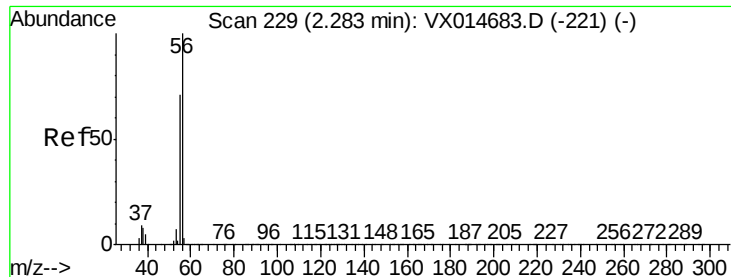
Tgt Ion: 59 Resp: 565

Ion Ratio Lower Upper

59 100

57 80.2 8.3 12.5#





#13

Acrolein

Concen: 0.896 ug/l

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

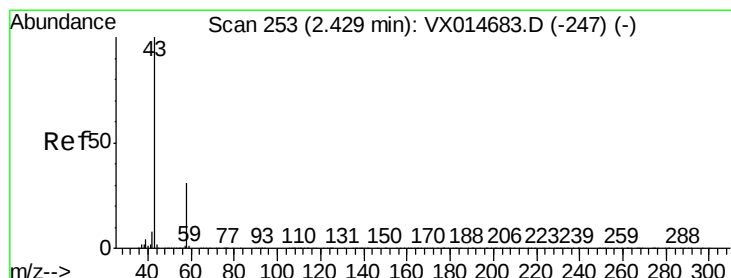
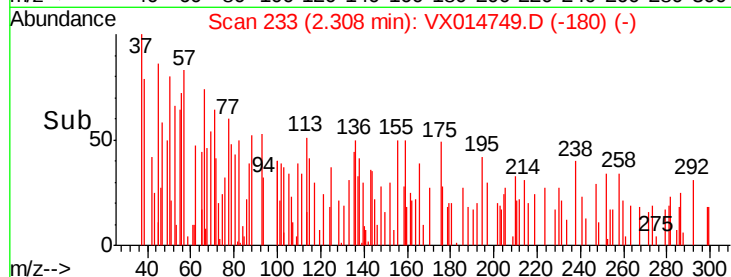
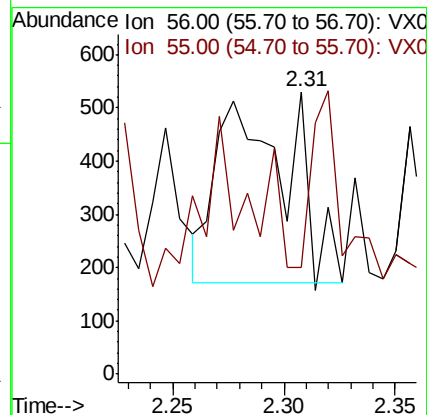
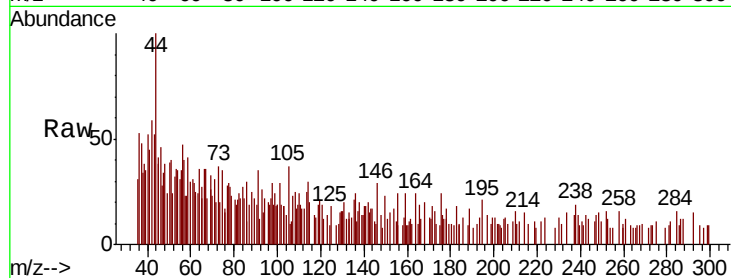
ClientSampleId :

Tot Ion: 56 Resp: 780

Ion Ratio Lower Upper

56 100

55 40.9 56.6 84.8#



#16

Acetone

Concen: 89.277 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014749.D

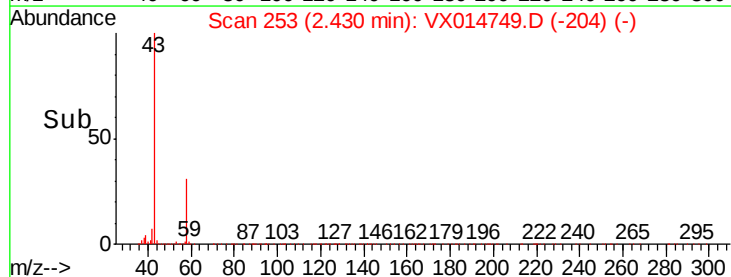
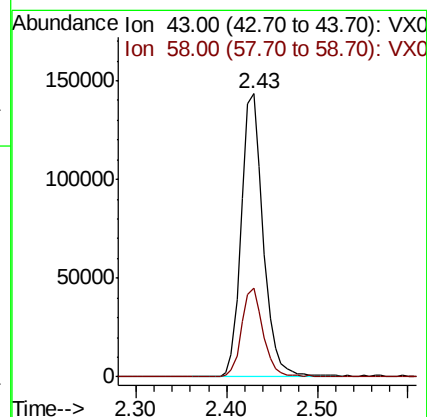
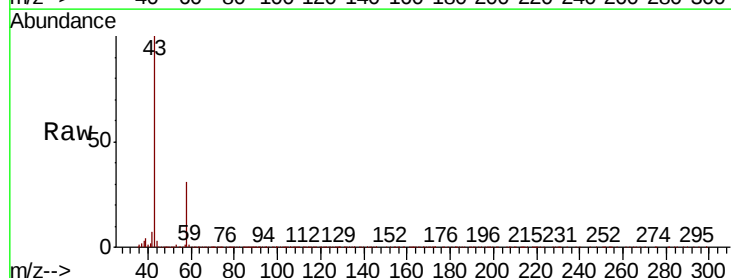
Acq: 28 Jan 2020 14:25

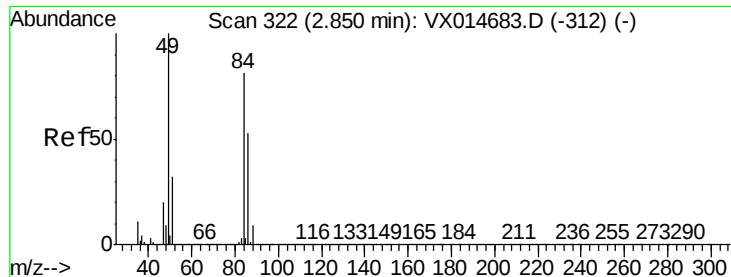
Tgt Ion: 43 Resp: 240355

Ion Ratio Lower Upper

43 100

58 31.1 24.5 36.7

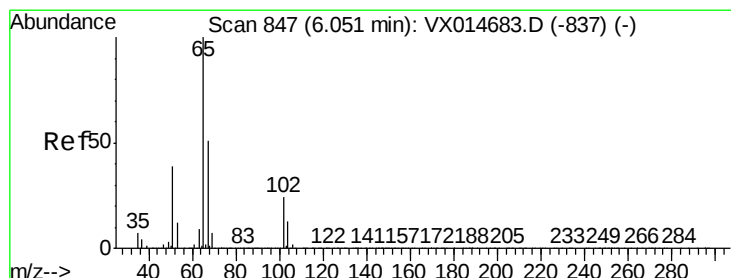
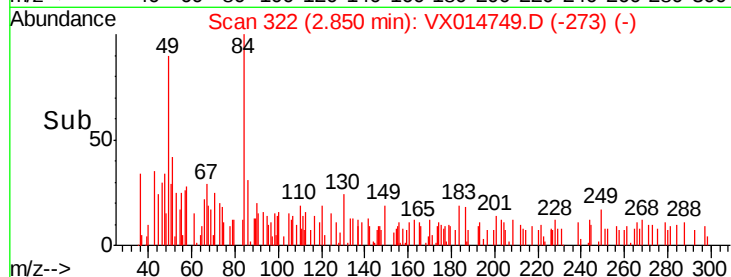
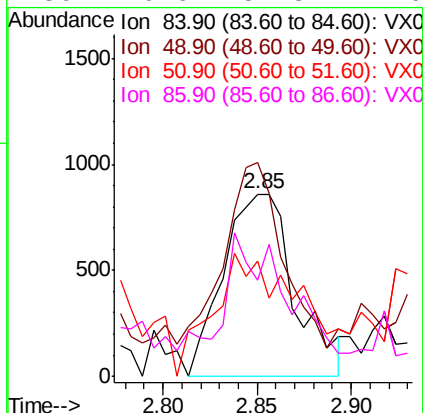
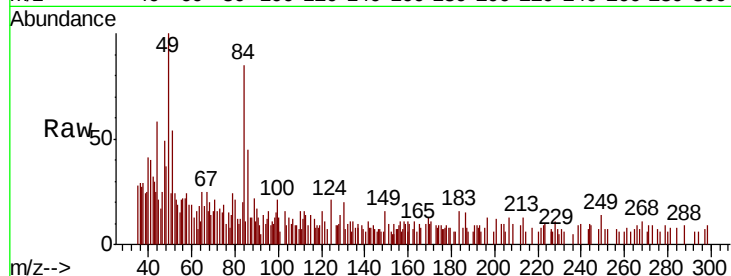




#20
Methvlene Chloride
Concen: 0.452 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014749.D
Acq: 28 Jan 2020 14:25

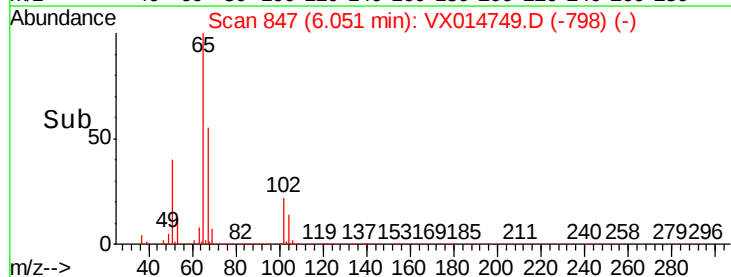
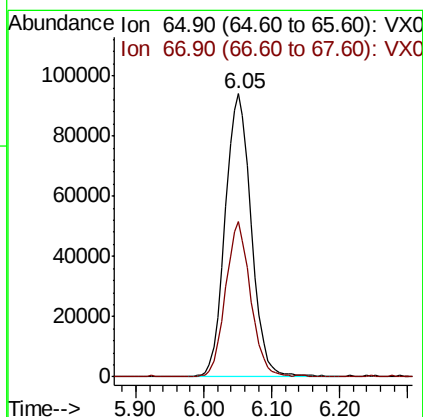
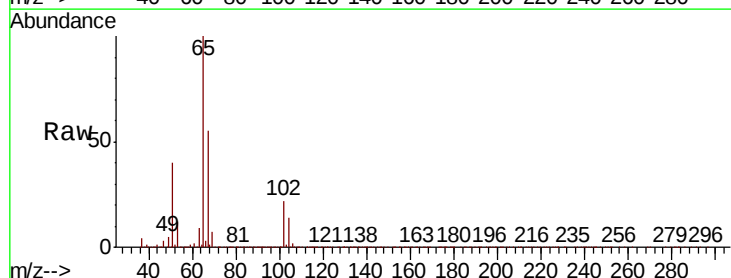
Instrument :
MSVOA_X
ClientSampleId :

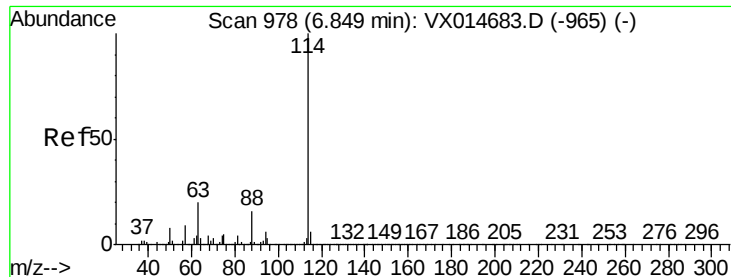
Tot Ion: 84 Resp: 2256
Ion Ratio Lower Upper
84 100
49 91.4 98.2 147.4#
51 18.9 31.3 46.9#
86 40.6 51.8 77.6#



#33
1,2-Dichloroethane-d4
Concen: 50.273 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014749.D
Acq: 28 Jan 2020 14:25

Tgt Ion: 65 Resp: 247221
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :
MSVOA_X
ClientSampleId :

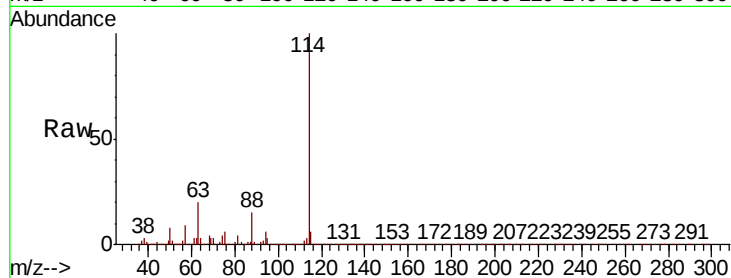
Tot Ion:114 Resp: 652572

Ion Ratio Lower Upper

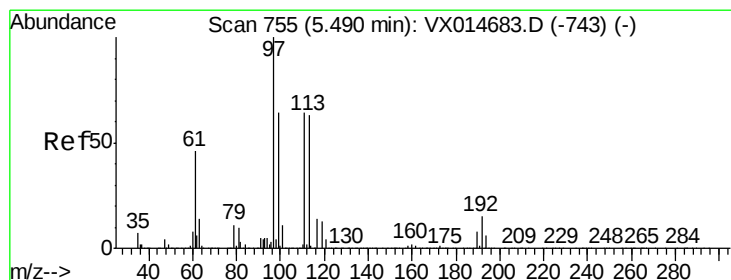
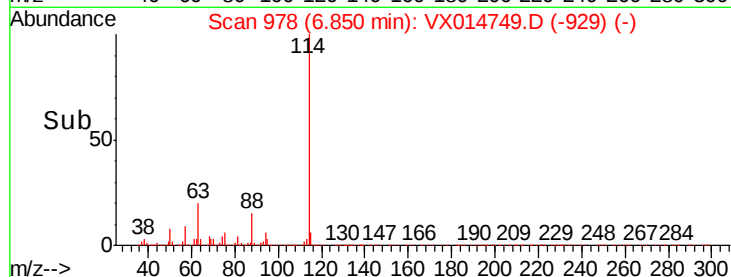
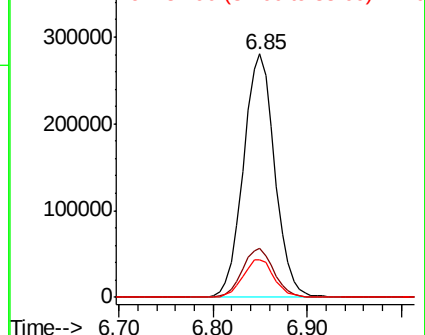
114 100

63 20.1 0.0 40.6

88 15.1 0.0 31.2



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: 50.010 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

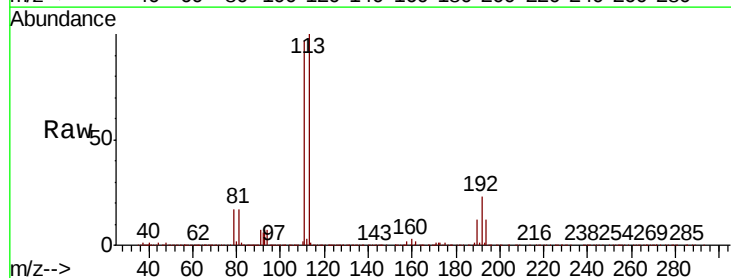
Tgt Ion:113 Resp: 205925

Ion Ratio Lower Upper

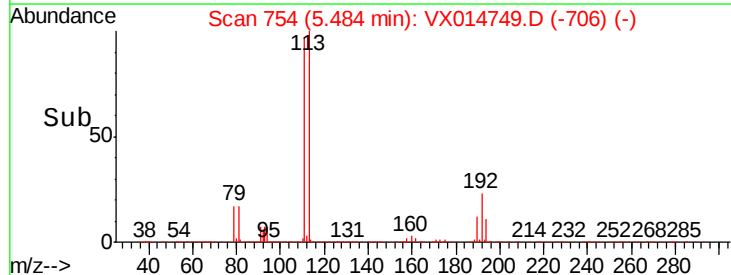
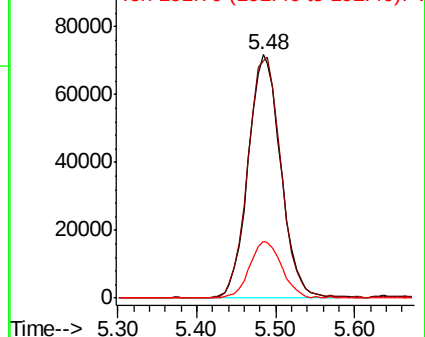
113 100

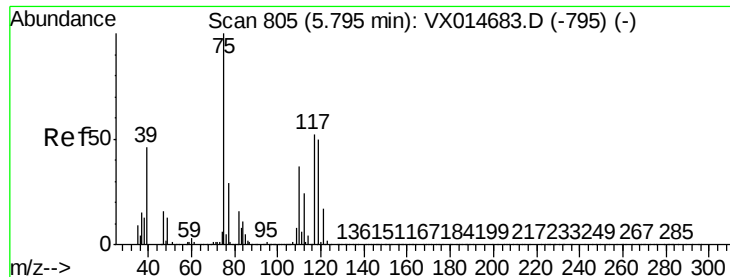
111 100.6 80.7 121.1

192 23.3 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: 4.704 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

ClientSampled :

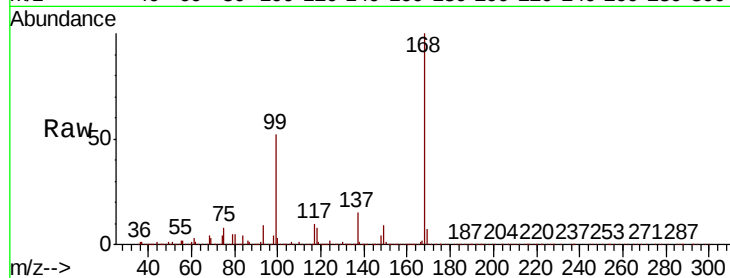
Tot Ion: 75 Resp: 28522

Ion Ratio Lower Upper

75 100

110 11.4 17.9 53.7#

77 0.4 24.1 36.1#



Abundance Ion 74.90 (74.60 to 75.60): VX014749.D (-756) (-)

Ion 109.90 (109.60 to 110.60): VX014749.D (-756) (-)

Ion 76.90 (76.60 to 77.60): VX014749.D (-756) (-)

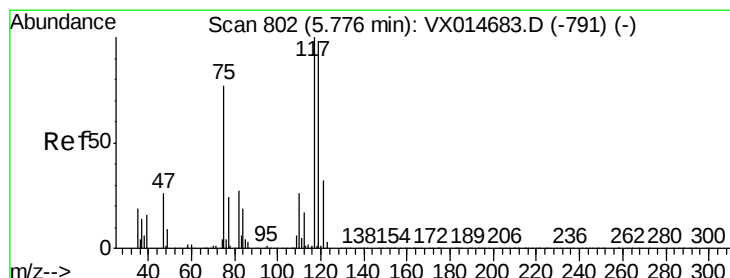
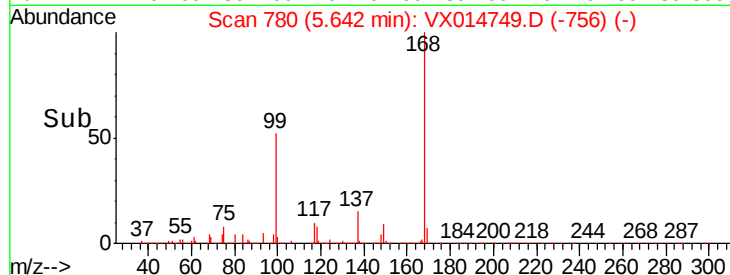
5.64

10000

5000

0

Time-->



#38

Carbon Tetrachloride

Concen: 6.555 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

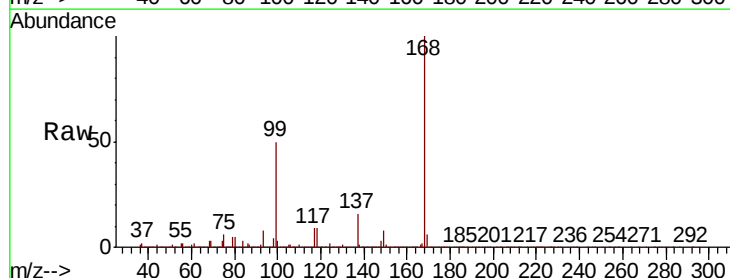
Tgt Ion: 117 Resp: 37959

Ion Ratio Lower Upper

117 100

119 4.6 77.9 116.9#

121 0.1 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): VX014749.D (-753) (-)

Ion 118.80 (118.50 to 119.50): VX014749.D (-753) (-)

Ion 120.80 (120.50 to 121.50): VX014749.D (-753) (-)

5.65

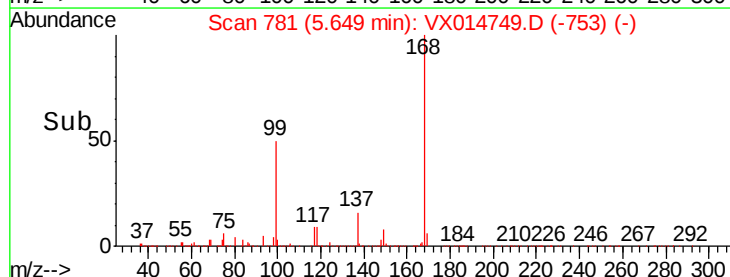
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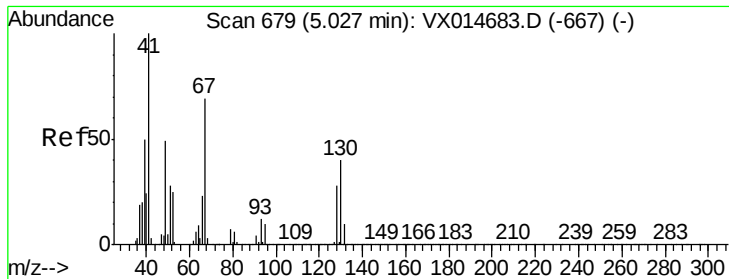
10000

5000

0

Time-->





#41

Methacrylonitrile

Concen: Below Cal

RT: 5.02 min Scan# 678

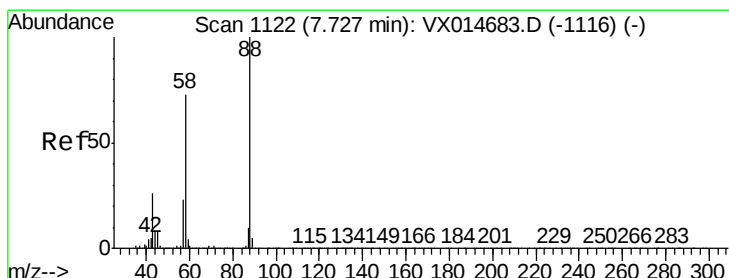
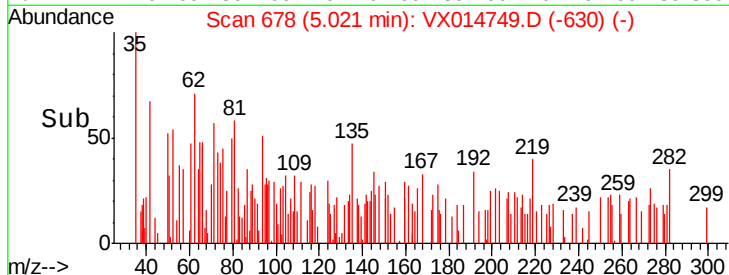
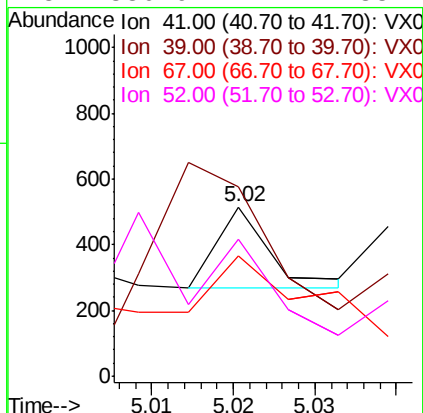
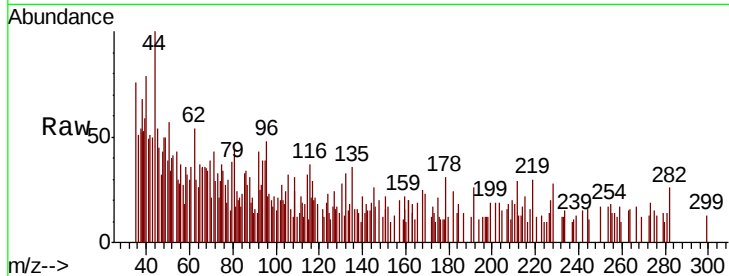
Delta R.T. -0.01 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	41	Resp:	110
Ion	Ratio	Lower	Upper
41	100		
39	679.1	42.2	63.2#
67	390.0	55.4	83.0#
52	380.9	22.1	33.1#



#49

1,4-Dioxane

Concen: 1.650 ug/l

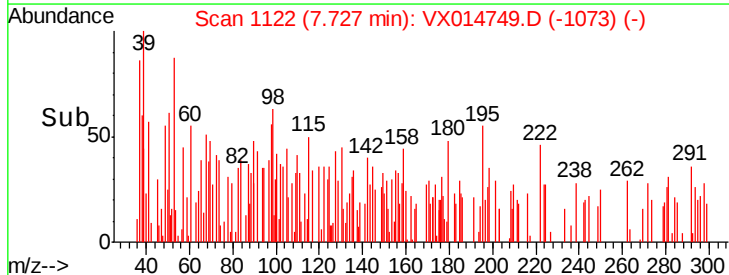
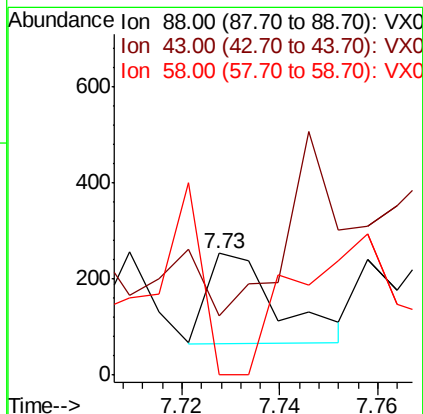
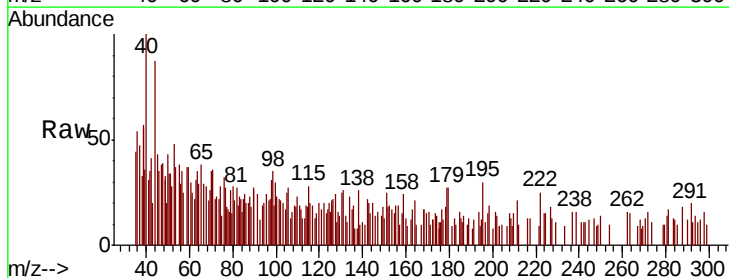
RT: 7.73 min Scan# 1122

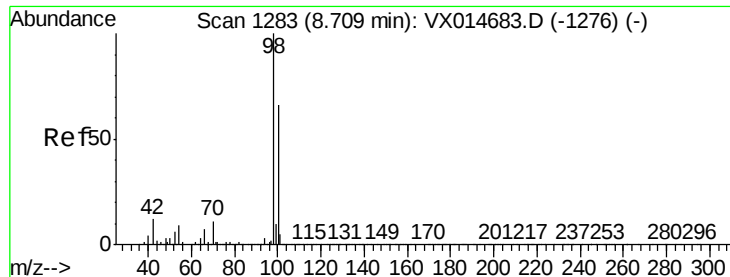
Delta R.T. 0.00 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Tgt Ion:	88	Resp:	190
Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.2	39.2#
58	109.5	56.6	85.0#





#50

Toluene-d8

Concen: 50.051 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

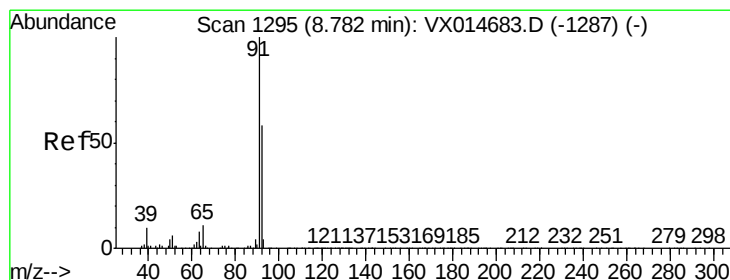
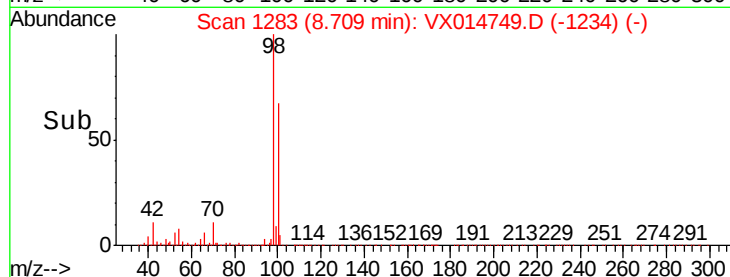
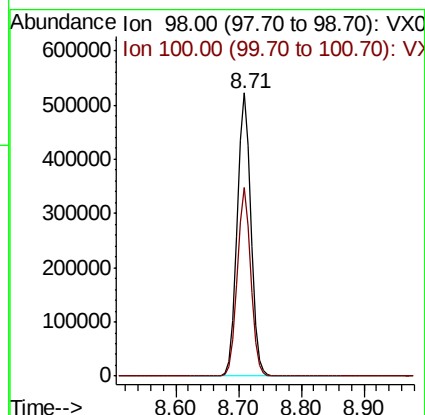
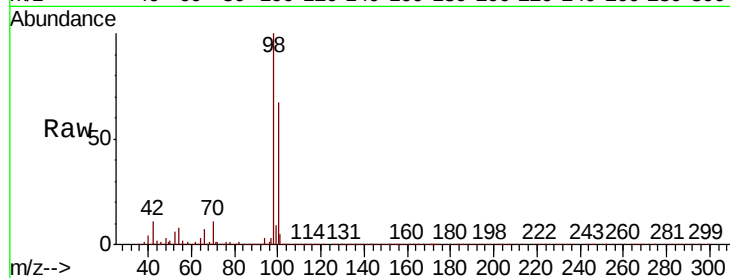
ClientSampleId :

Tot Ion: 98 Resp: 792314

Ion Ratio Lower Upper

98 100

100 65.3 53.0 79.6



#52

Toluene

Concen: 3.450 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014749.D

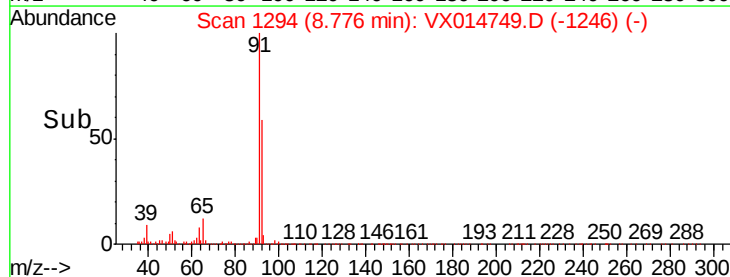
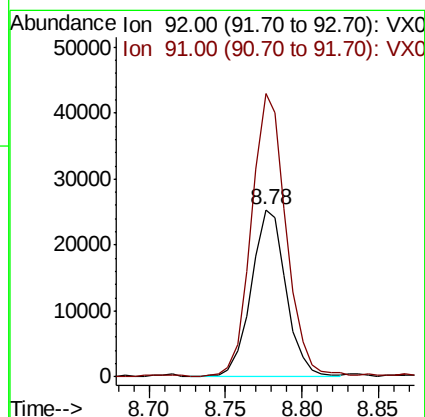
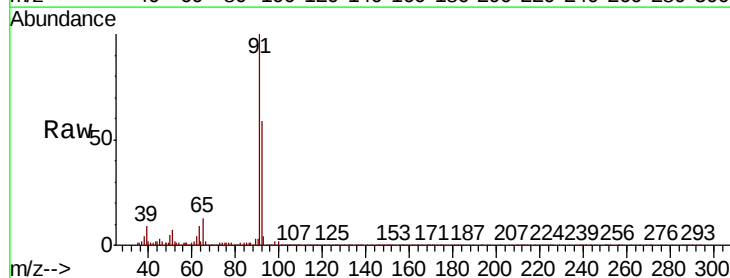
Acq: 28 Jan 2020 14:25

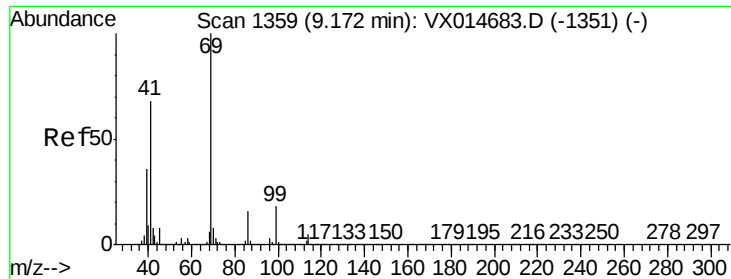
Tgt Ion: 92 Resp: 39730

Ion Ratio Lower Upper

92 100

91 169.9 135.9 203.9





#56

Ethyl methacrylate

Concen: 1.807 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :
MSVOA_X
ClientSampled :

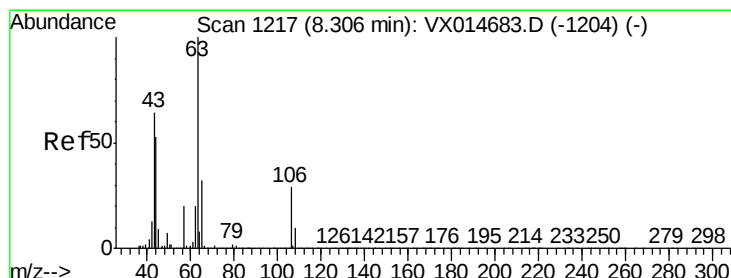
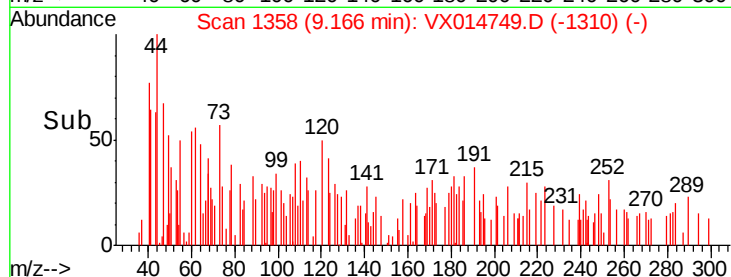
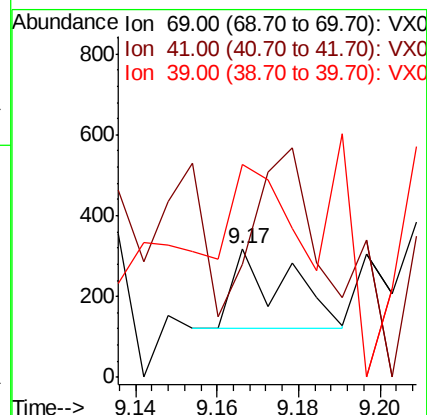
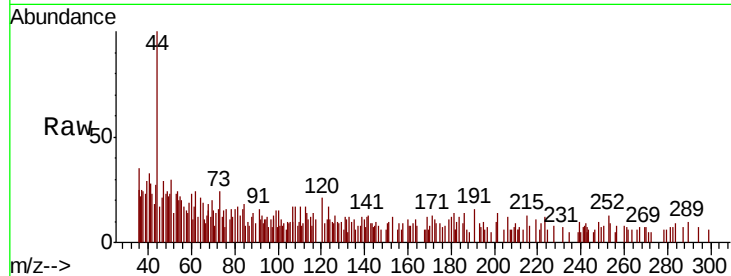
Tot Ion: 69 Resp: 183

Ion Ratio Lower Upper

69 100

41 435.5 54.9 82.3#

39 0.0 29.3 43.9#



#58

2-Chloroethyl Vinyl ether

Concen: 0.211 ug/l

RT: 8.14 min Scan# 1189

Delta R.T. -0.17 min

Lab File: VX014749.D

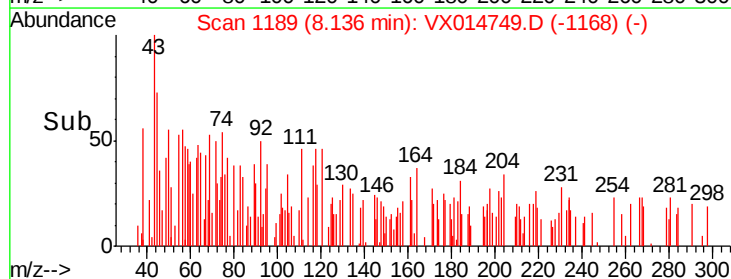
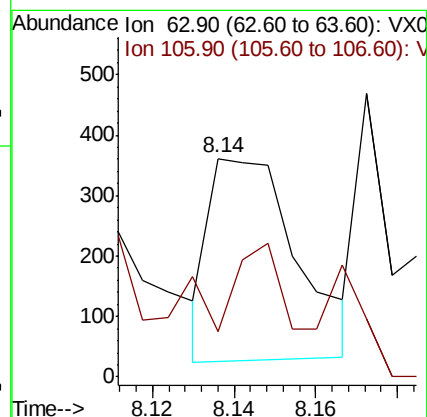
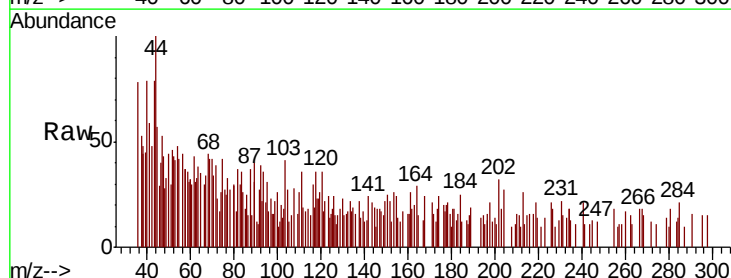
Acq: 28 Jan 2020 14:25

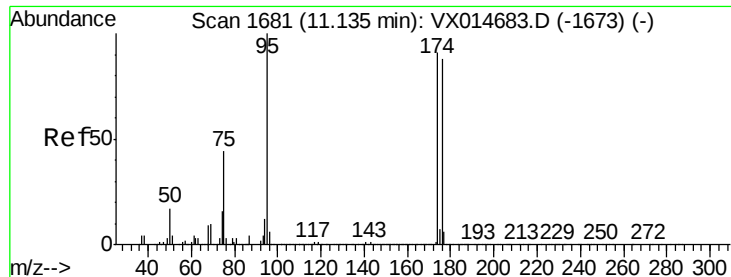
Tgt Ion: 63 Resp: 500

Ion Ratio Lower Upper

63 100

106 24.6 22.7 34.1

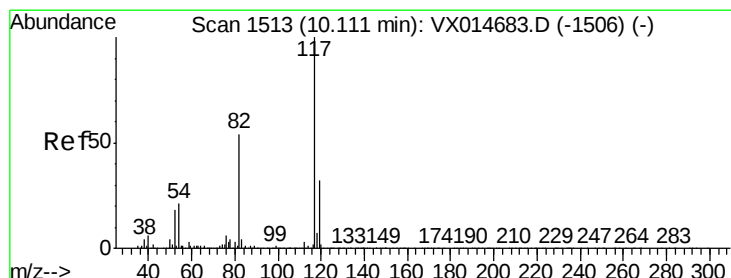
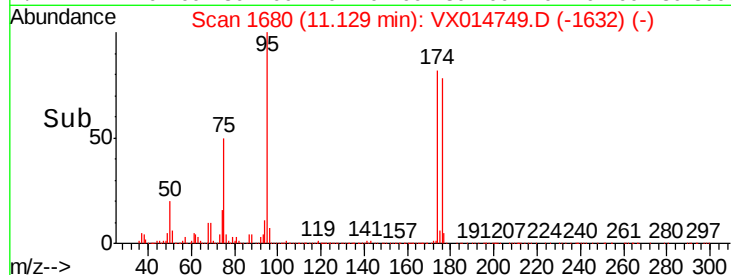
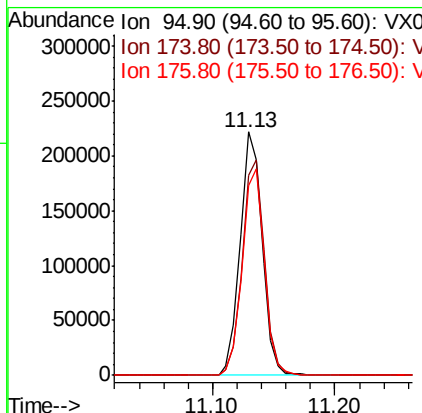
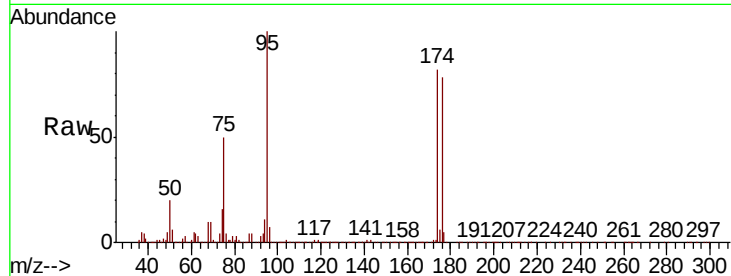




#62
4-Bromofluorobenzene
Concen: 48.602 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014749.D
Acq: 28 Jan 2020 14:25

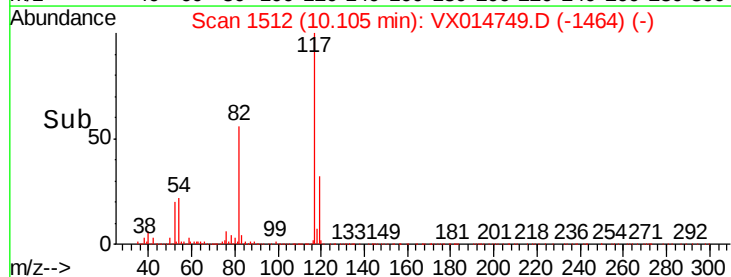
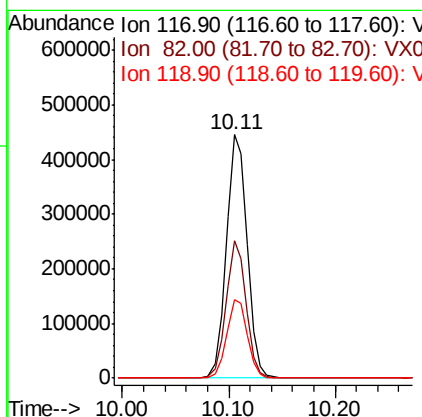
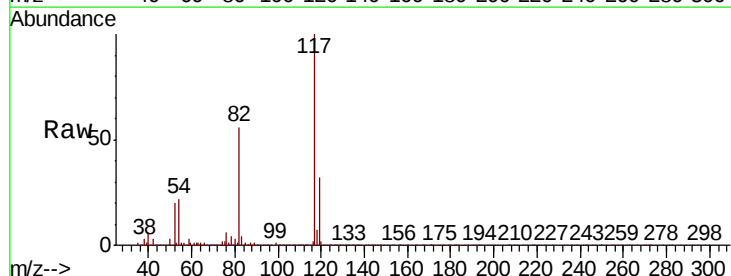
Instrument :
MSVOA_X
ClientSampleId :

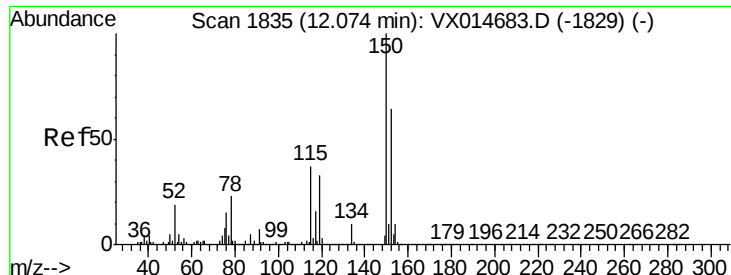
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	176.0
176	85.9	0.0	172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014749.D
Acq: 28 Jan 2020 14:25

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.3	43.2	64.8
119	32.2	25.8	38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

ClientSampleId :

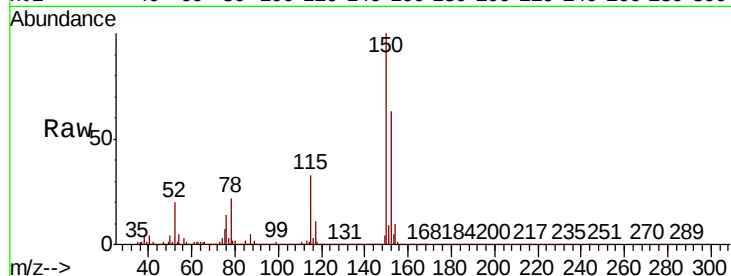
Tot Ion:152 Resp: 283436

Ion Ratio Lower Upper

152 100

115 55.1 39.4 118.1

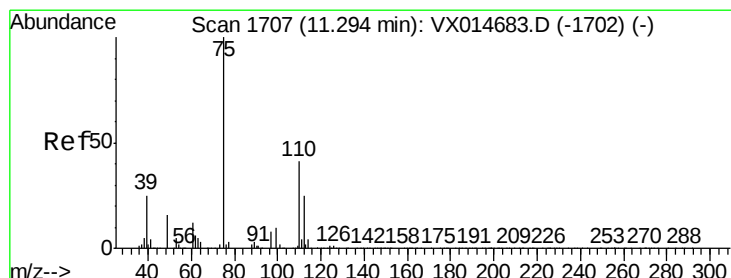
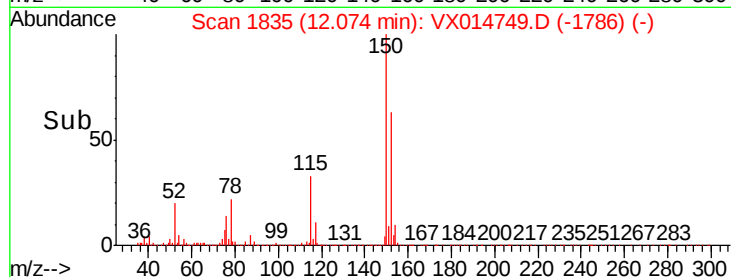
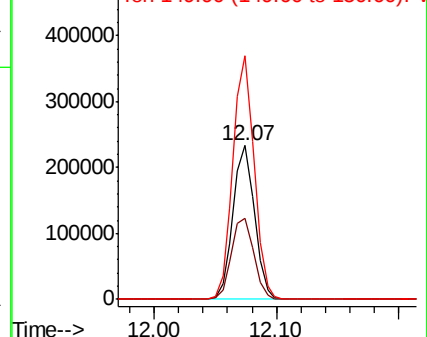
150 156.3 0.0 351.2



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



#76

1,2,3-Trichloropropane

Concen: 20.523 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014749.D

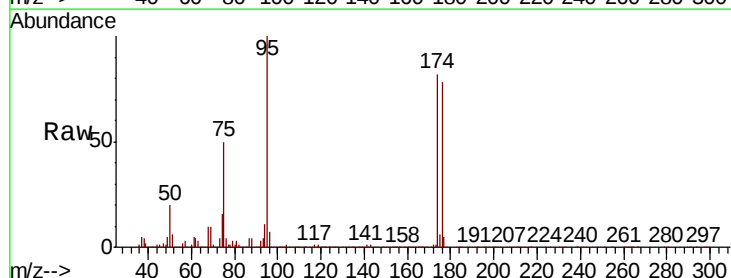
Acq: 28 Jan 2020 14:25

Tgt Ion: 75 Resp: 135335

Ion Ratio Lower Upper

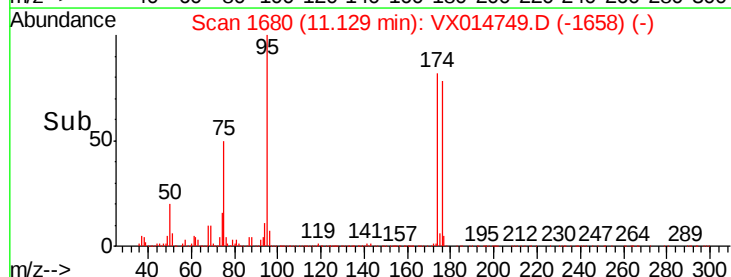
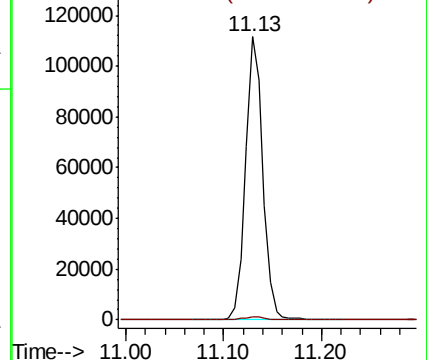
75 100

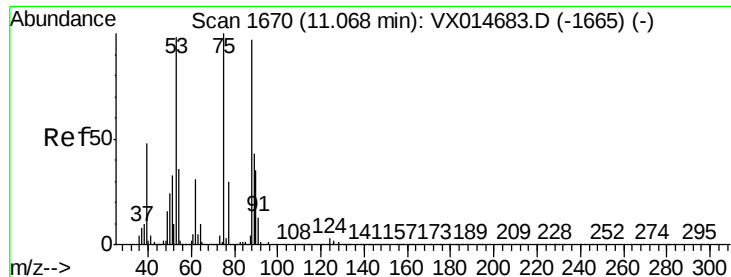
77 1.8 18.7 56.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.404 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

Instrument :

MSVOA_X

ClientSampleId :

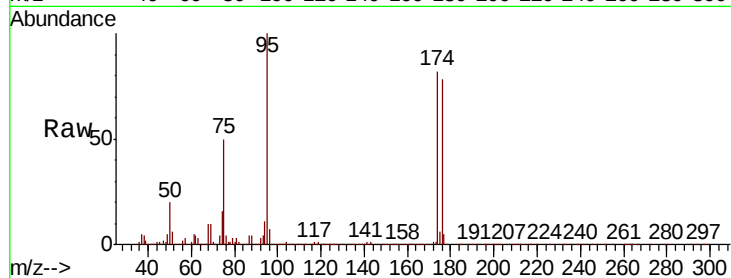
Tot Ion: 75 Resp: 135335

Ion Ratio Lower Upper

75 100

53 0.3 78.8 118.2#

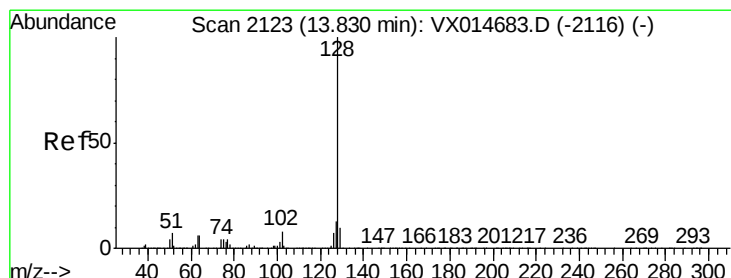
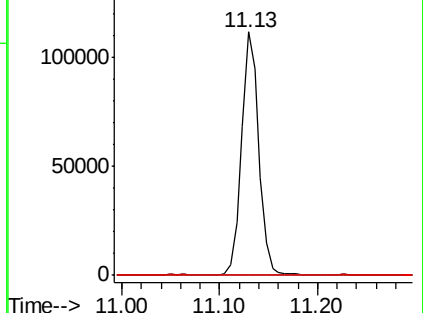
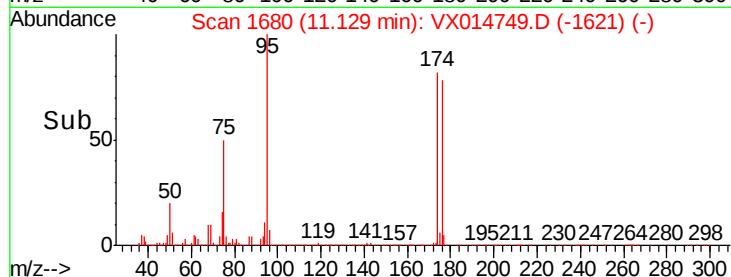
89 0.0 35.4 53.0#



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



#95

Naphthalene

Concen: 0.957 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014749.D

Acq: 28 Jan 2020 14:25

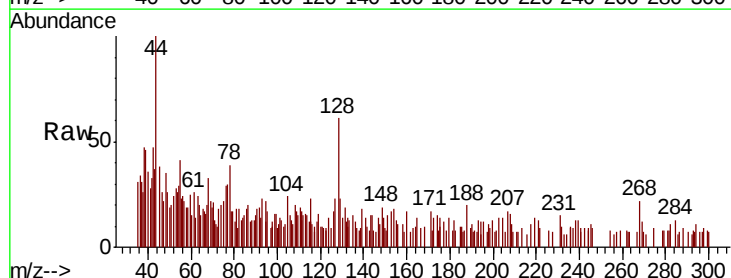
Tgt Ion:128 Resp: 522

Ion Ratio Lower Upper

128 100

127 40.6 10.3 15.5#

129 23.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

