

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060920\
 Data File : VX016659.D
 Acq On : 09 Jun 2020 13:23
 Operator : JC/SP
 Sample : L2941-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-06-04-TB02

Quant Time: Jun 10 04:14:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	229361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	362517	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	365038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	187579	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	131771	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
35) Dibromofluoromethane	5.47	113	109063	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.70	98	447533	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.12	95	178840	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	

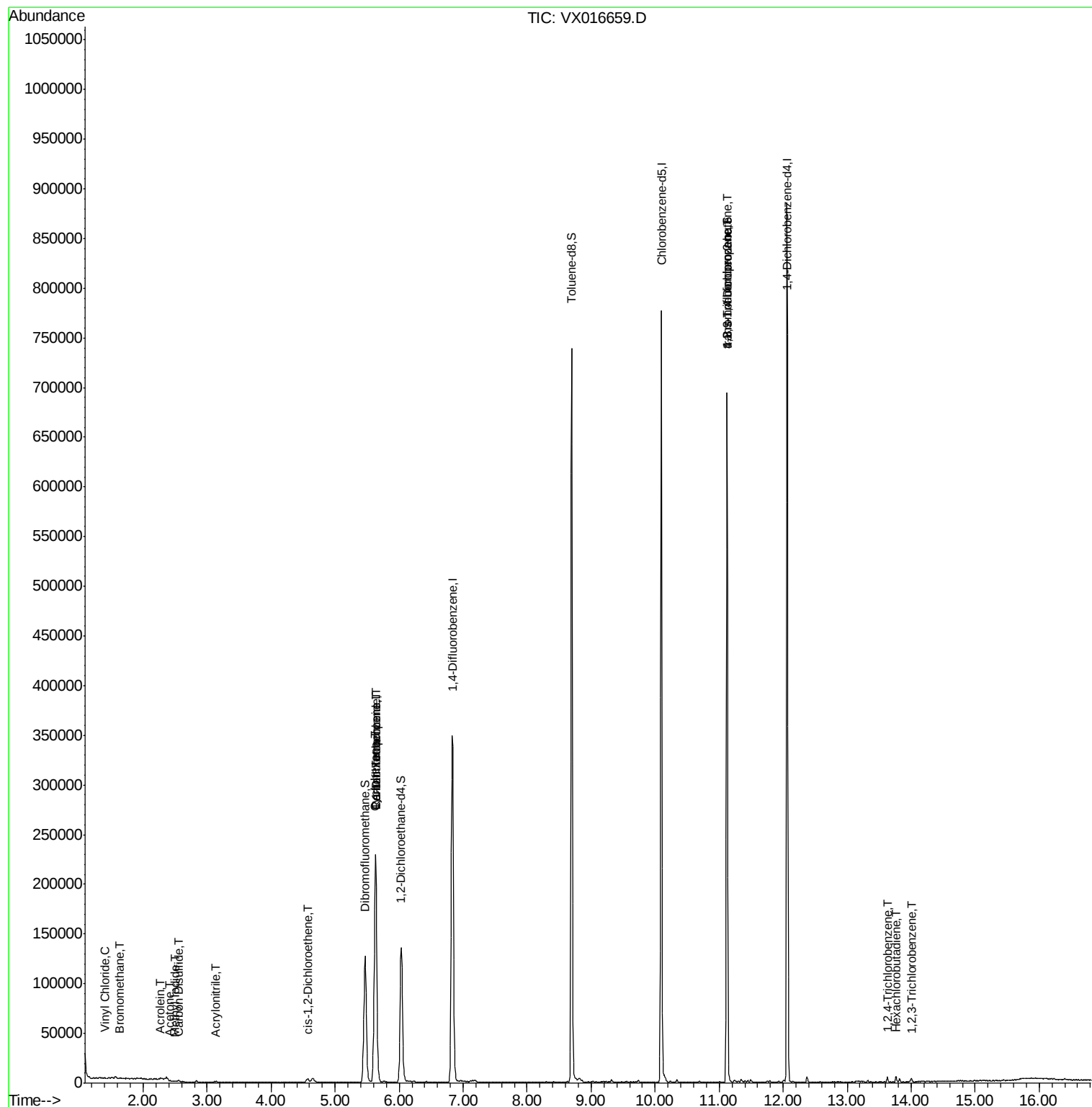
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	667	0.231	ug/l	97
5) Bromomethane	1.64	94	386	0.275	ug/l #	67
10) Methyl Iodide	2.50	142	497	3.243	ug/l #	81
13) Acrolein	2.27	56	523	1.683	ug/l #	71
15) Acrylonitrile	3.13	53	448	0.299	ug/l #	84
16) Acetone	2.42	43	621	0.498	ug/l #	86
17) Carbon Disulfide	2.55	76	2037	0.311	ug/l	100
27) cis-1,2-Dichloroethene	4.57	96	2656	0.940	ug/l	80
31) Cyclohexane	5.62	56	4129	1.043	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15944	4.645	ug/l #	51
38) Carbon Tetrachloride	5.63	117	21640	5.999	ug/l #	17
76) 1,2,3-Trichloropropane	11.12	75	87155	21.138	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	87155	51.997	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	1203	0.317	ug/l	95
94) Hexachlorobutadiene	13.77	225	853	0.572	ug/l	94
96) 1,2,3-Trichlorobenzene	14.01	180	1006	0.270	ug/l	95

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

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Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

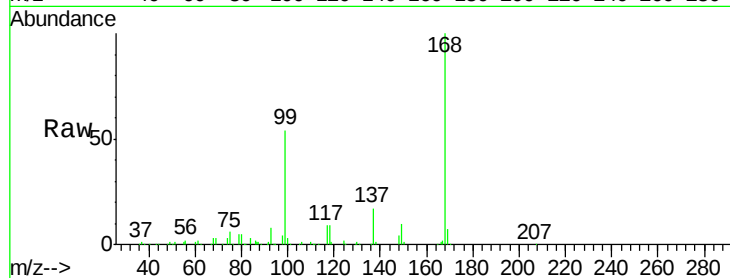
2020-06-04-TB02

Tot Ion:168 Resp: 229361

Ion Ratio Lower Upper

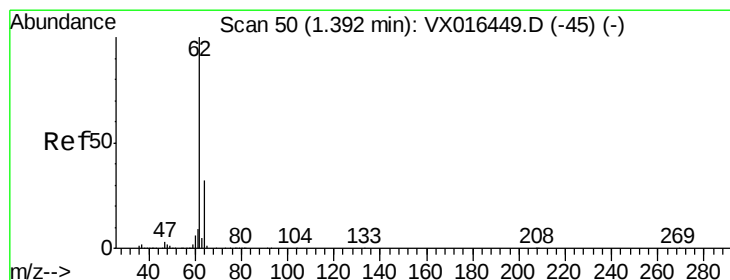
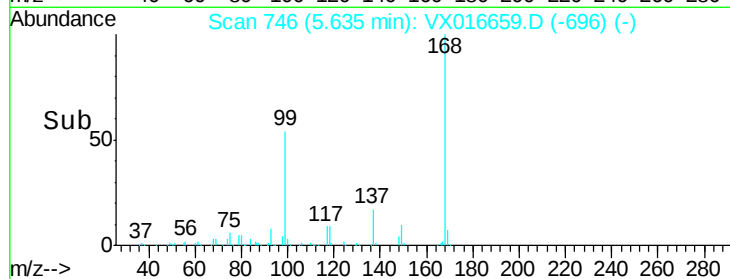
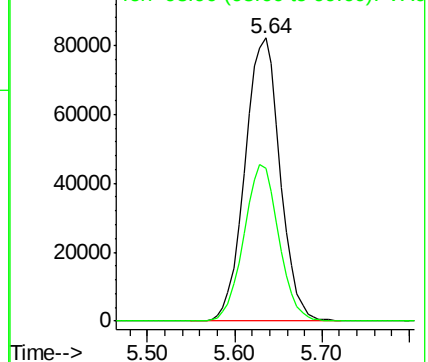
168 100

99 53.9 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.231 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016659.D

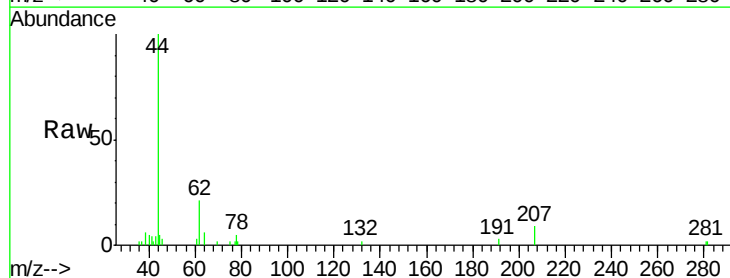
Acq: 09 Jun 2020 13:23

Tgt Ion: 62 Resp: 667

Ion Ratio Lower Upper

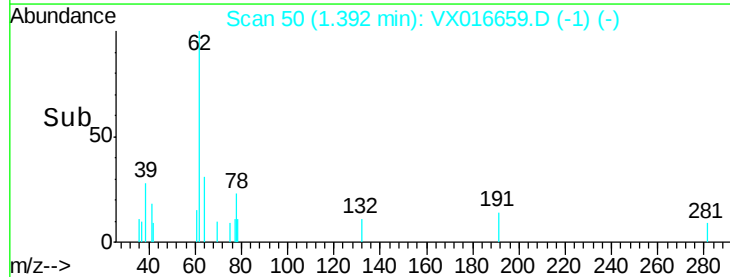
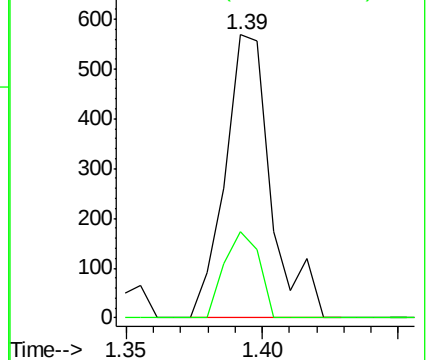
62 100

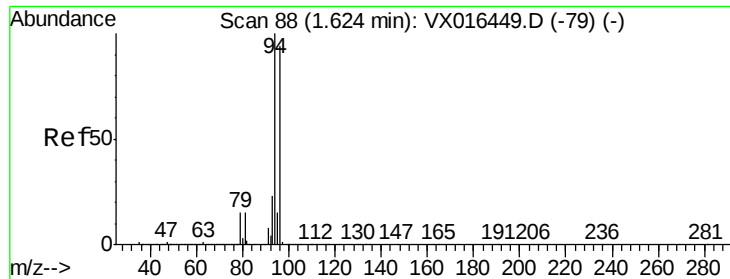
64 30.6 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampled :

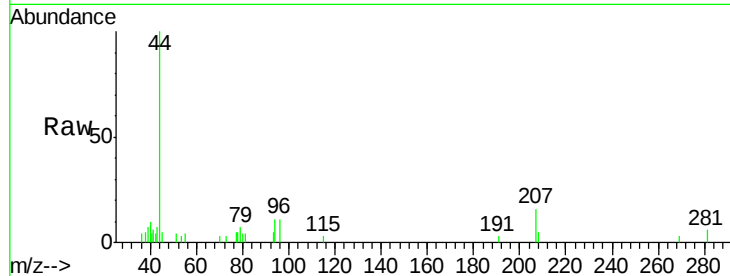
2020-06-04-TB02

Tot Ion: 94 Resp: 386

Ion Ratio Lower Upper

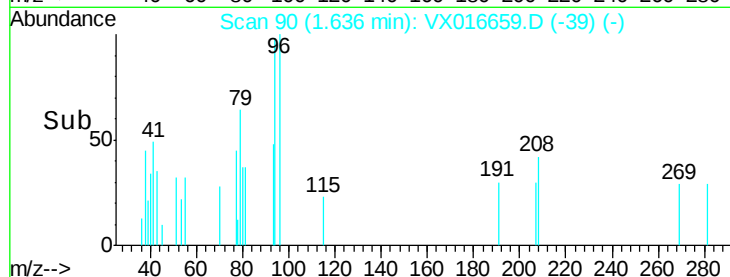
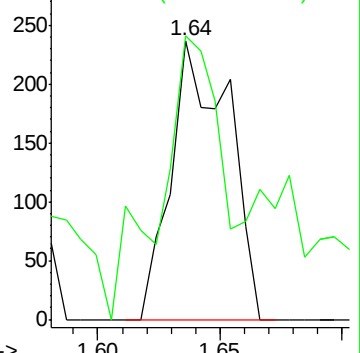
94 100

96 62.0 75.1 112.7#

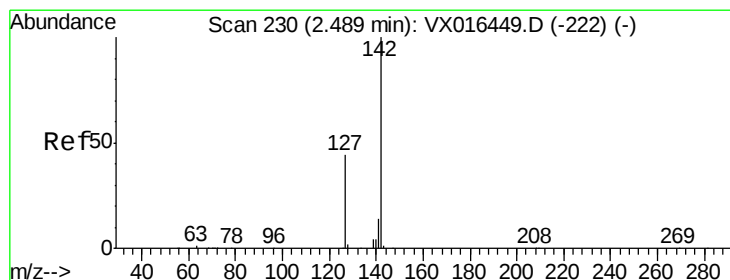


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 3.243 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

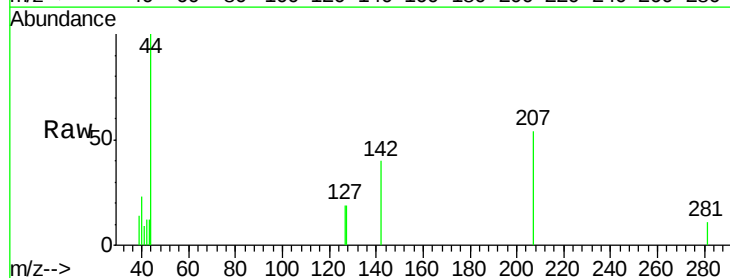
Tgt Ion: 142 Resp: 497

Ion Ratio Lower Upper

142 100

127 52.7 35.3 52.9

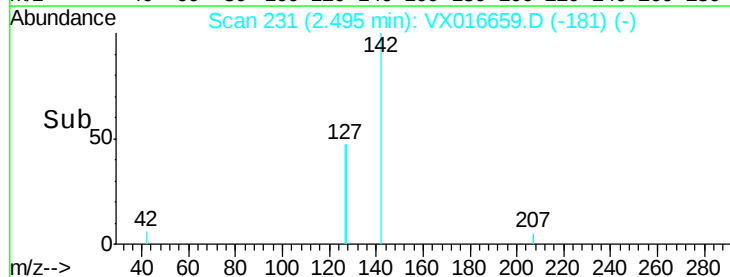
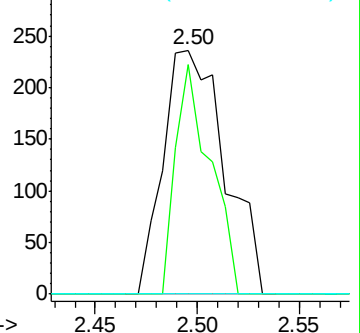
141 0.0 11.4 17.2#



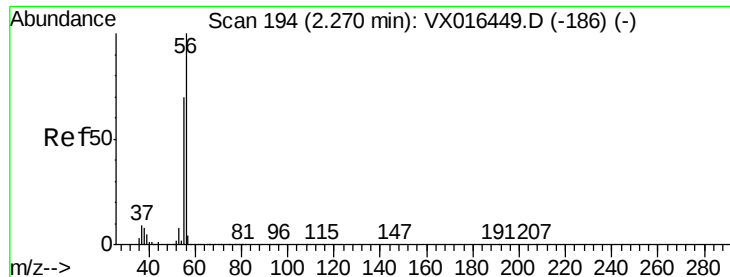
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#13

Acrolein

Concen: 1.683 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

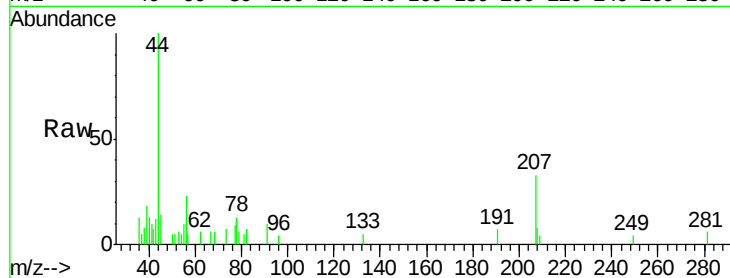
2020-06-04-TB02

Tot Ion: 56 Resp: 523

Ion Ratio Lower Upper

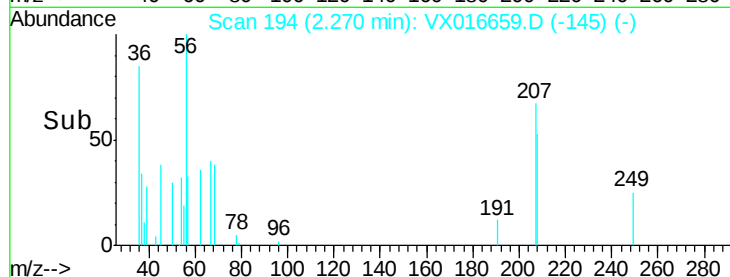
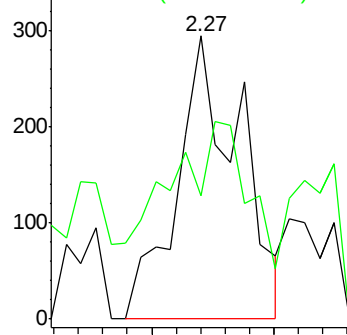
56 100

55 97.1 58.3 87.5#

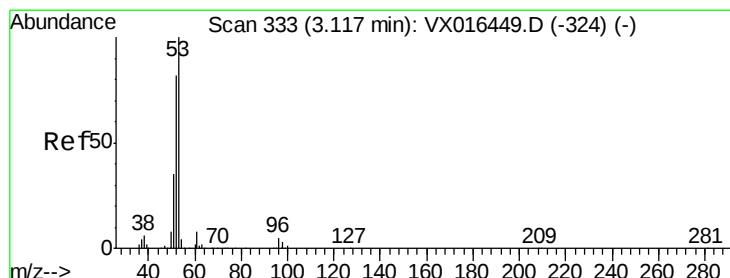


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.299 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

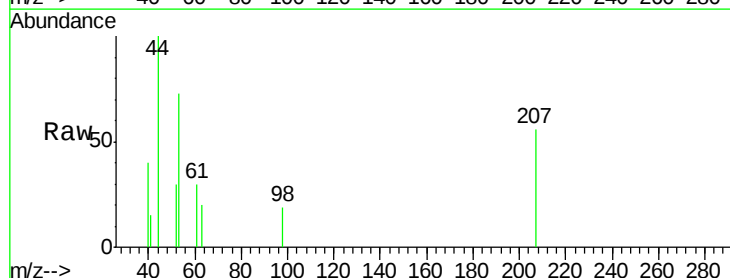
Tgt Ion: 53 Resp: 448

Ion Ratio Lower Upper

53 100

52 65.8 66.7 100.1#

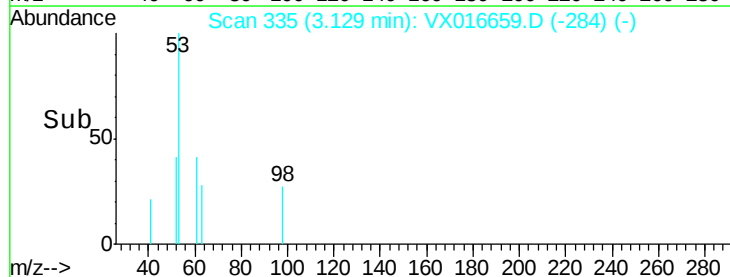
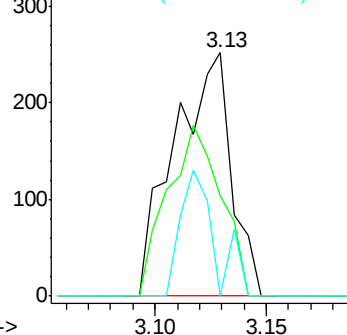
51 31.0 28.6 43.0



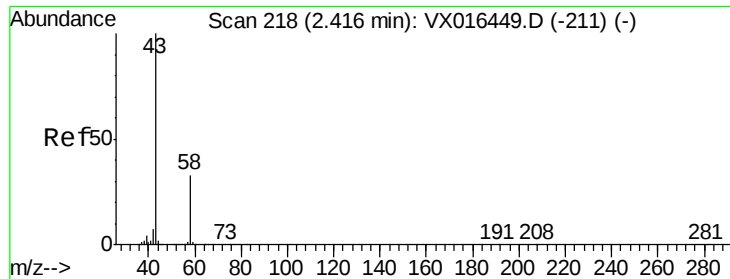
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 0.498 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

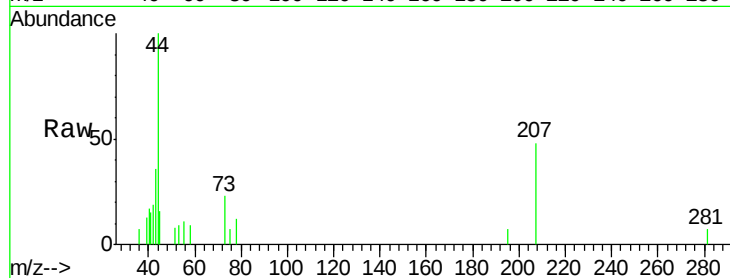
2020-06-04-TB02

Tot Ion: 43 Resp: 621

Ion Ratio Lower Upper

43 100

58 24.7 26.1 39.1#



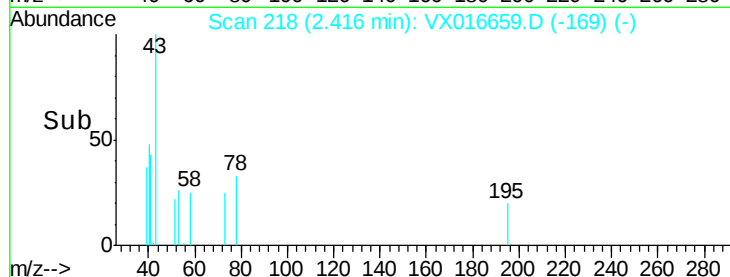
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

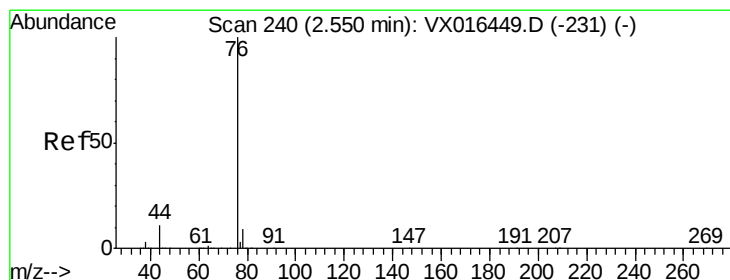
2.42

2.40 2.45

Time-->



Time-->



#17

Carbon Disulfide

Concen: 0.311 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX016659.D

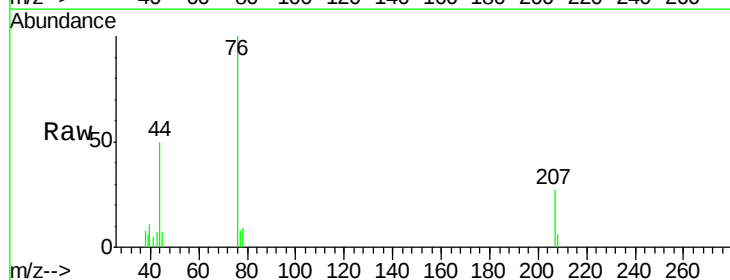
Acq: 09 Jun 2020 13:23

Tgt Ion: 76 Resp: 2037

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



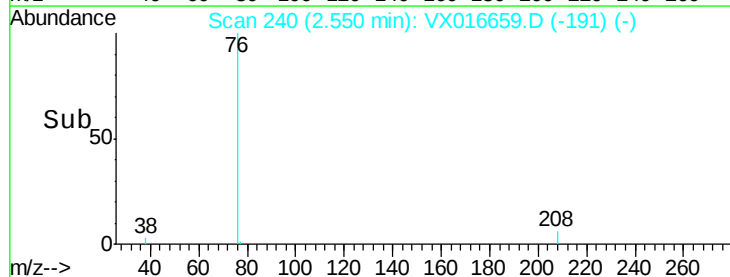
Abundance Ion 75.90 (75.60 to 76.60): VX0

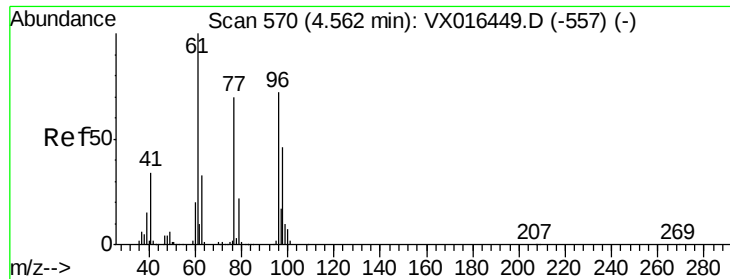
Ion 77.90 (77.60 to 78.60): VX0

2.55

2.50 2.55 2.60

Time-->



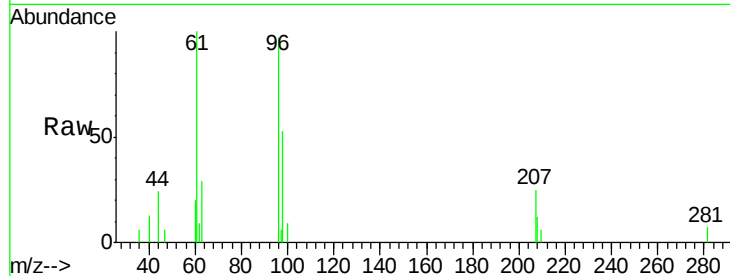


#27

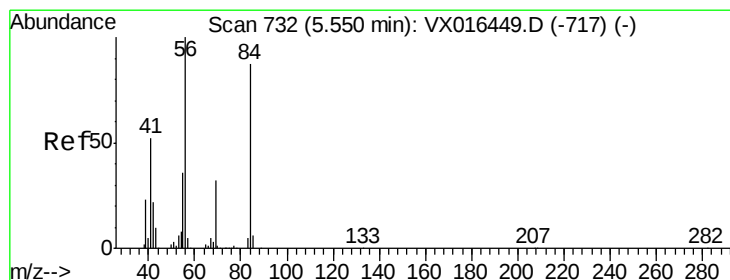
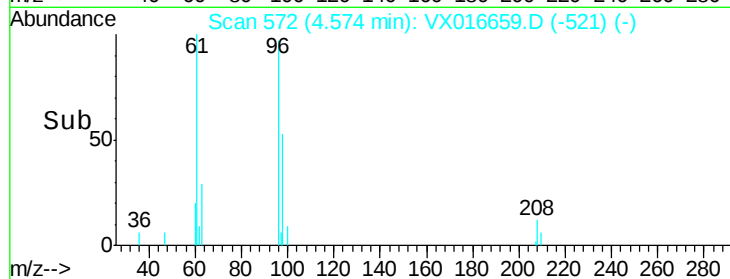
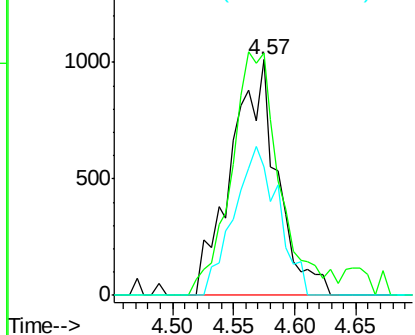
cis-1,2-Dichloroethene
 Concen: 0.940 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-06-04-TB02

Tot Ion	Ratio	Lower	Upper
96	100		
61	109.5	0.0	284.6
98	60.8	0.0	127.2



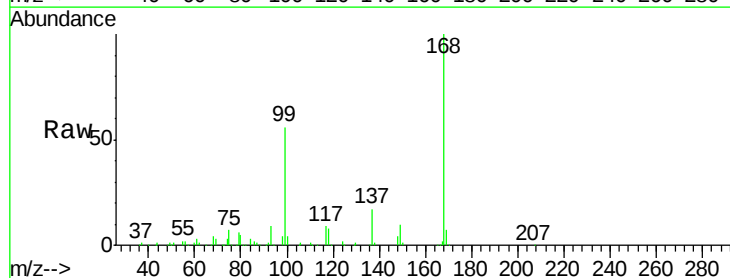
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



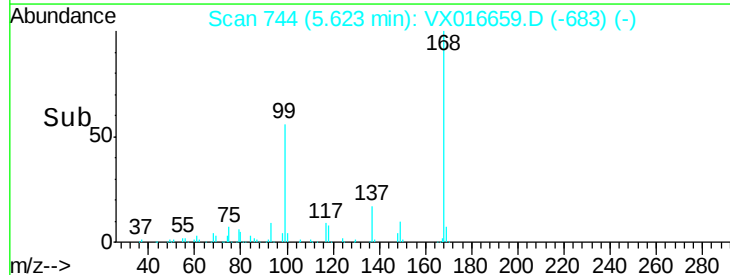
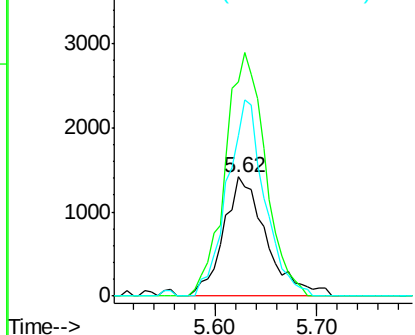
#31

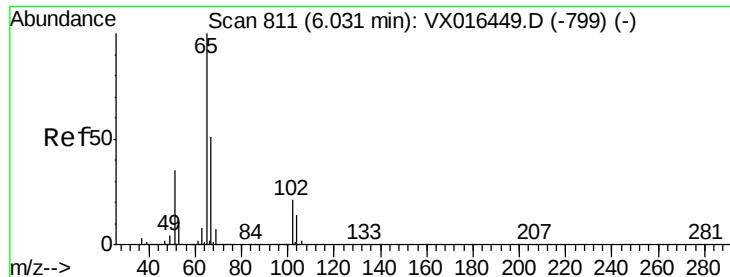
Cyclohexane
 Concen: 1.043 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. 0.07 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

Tgt Ion	Ratio	Lower	Upper
56	100		
69	179.4	25.7	38.5#
84	134.2	70.0	105.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0

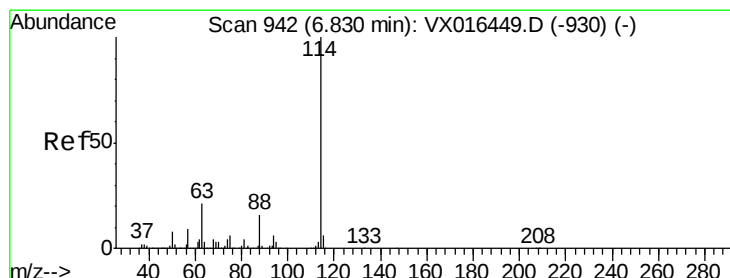
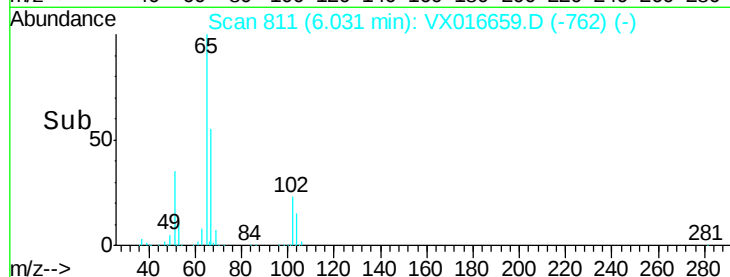
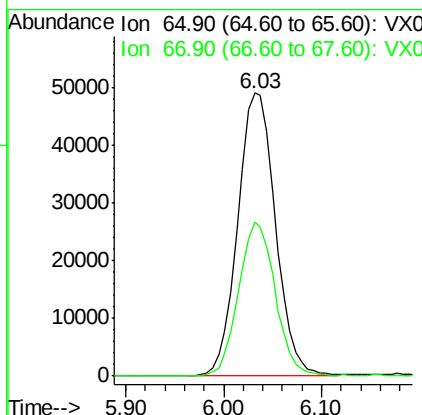
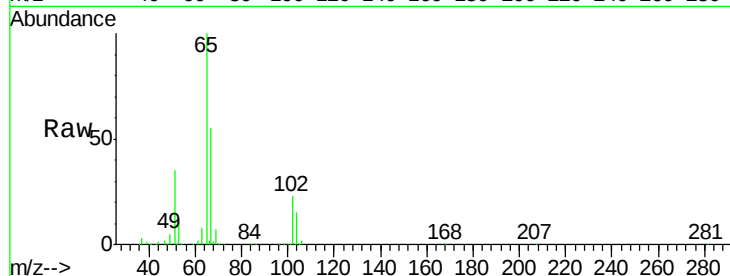




#33
 1,2-Dichloroethane-d4
 Concen: 46.262 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

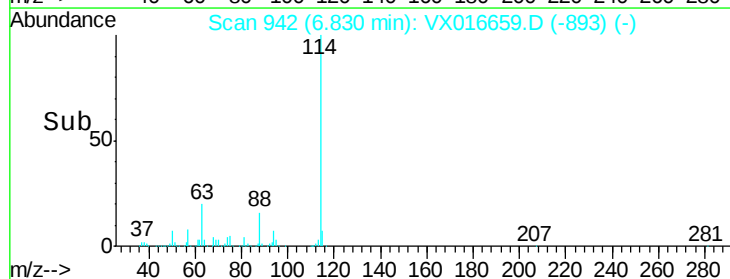
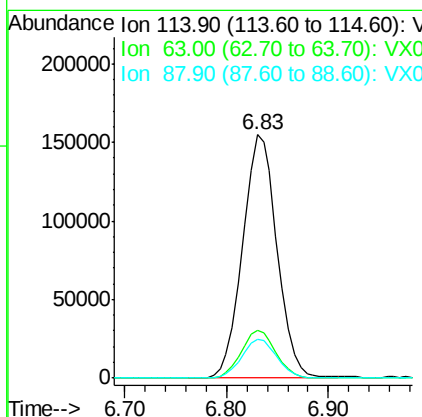
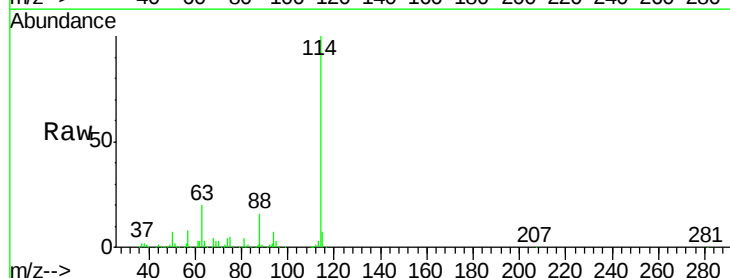
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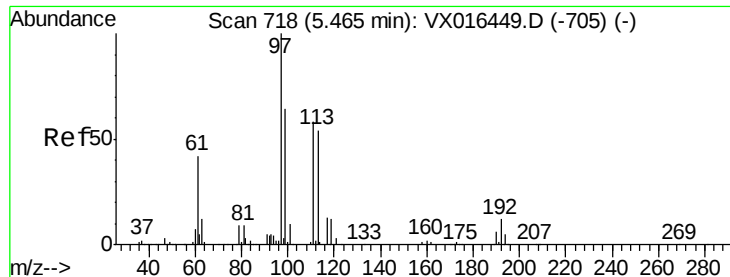
Tot Ion: 65 Resp: 131771
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

Tgt Ion: 114 Resp: 362517
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 42.6
 88 15.8 0.0 32.8

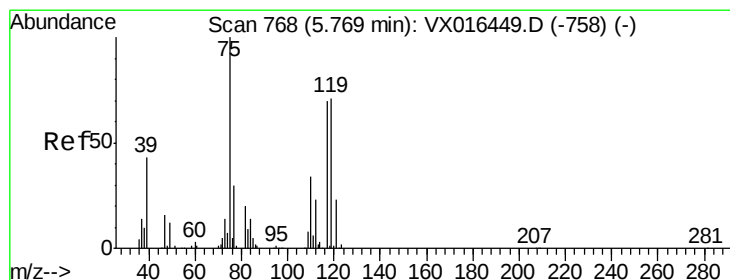
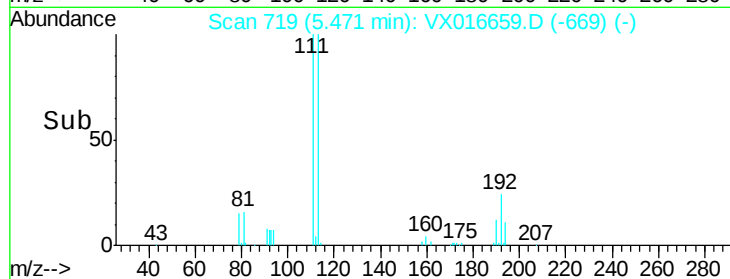
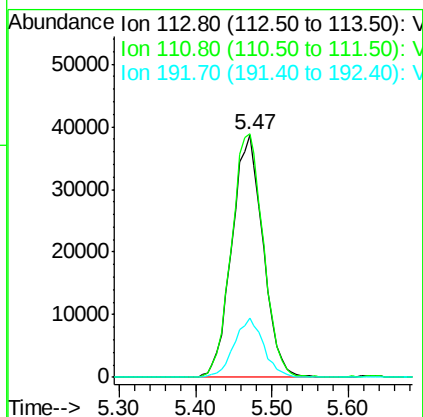
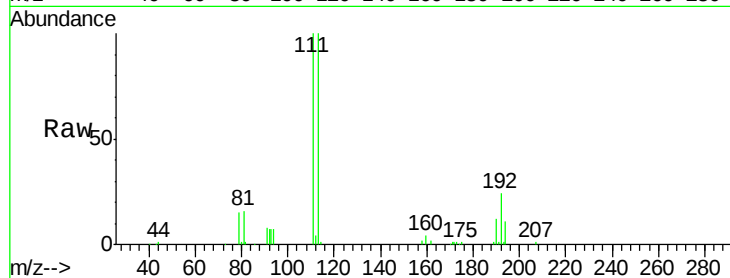




#35
 Dibromofluoromethane
 Concen: 48.859 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

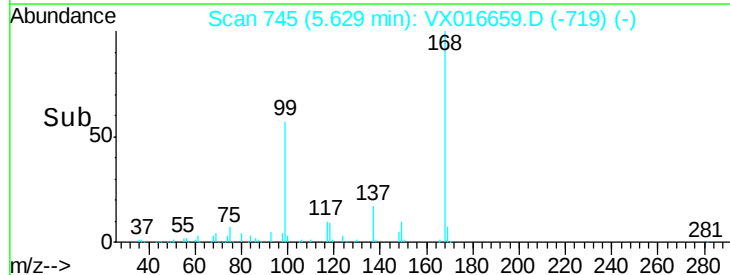
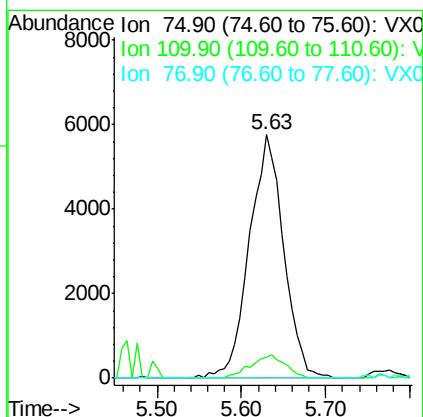
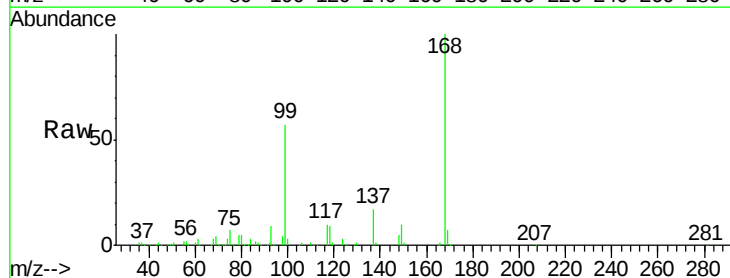
Instrument :
 MSVOA_X
 ClientSampleId :
 2020-06-04-TB02

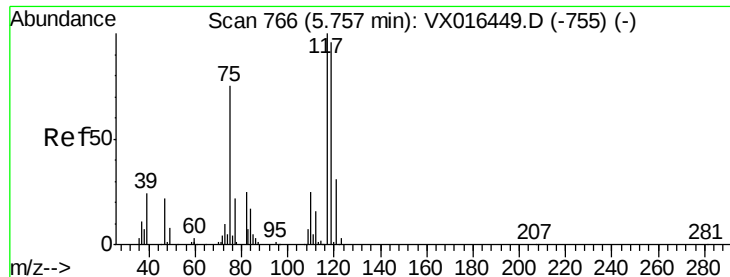
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.0	124.6
192	23.3	17.7	26.5



#36
 1,1-Dichloropropene
 Concen: 4.645 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016659.D
 Acq: 09 Jun 2020 13:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	17.4	52.3#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.999 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampled :

2020-06-04-TB02

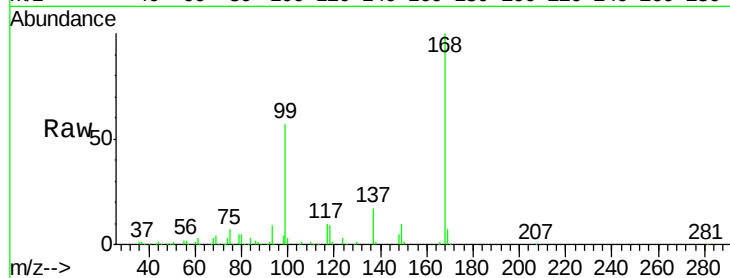
Tot Ion:117 Resp: 21640

Ion Ratio Lower Upper

117 100

119 5.7 76.3 114.5#

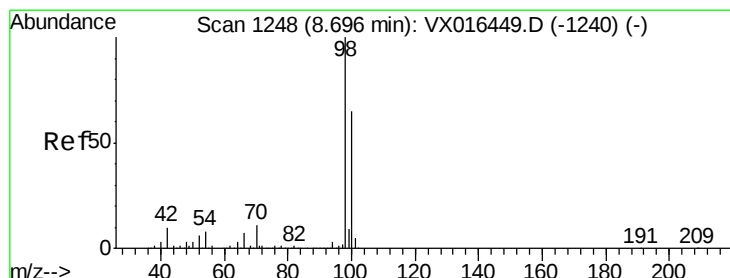
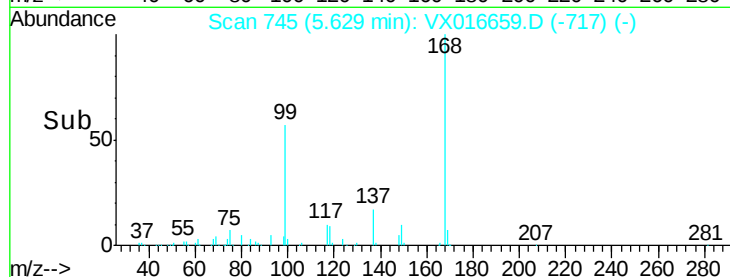
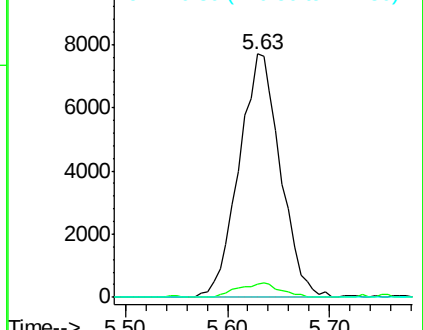
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 51.511 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016659.D

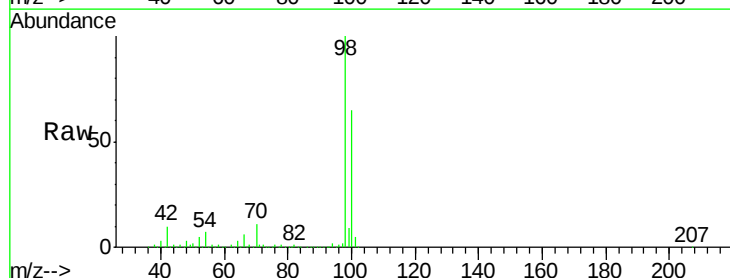
Acq: 09 Jun 2020 13:23

Tgt Ion: 98 Resp: 447533

Ion Ratio Lower Upper

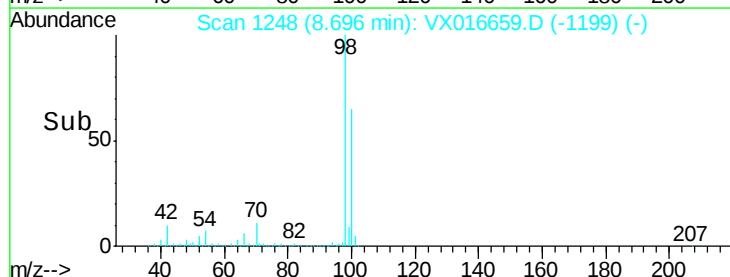
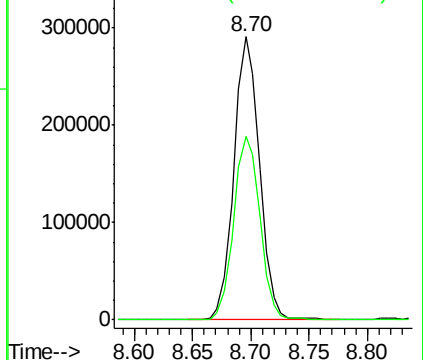
98 100

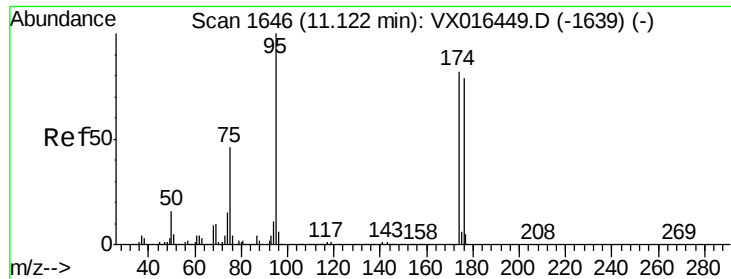
100 66.6 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 53.272 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

2020-06-04-TB02

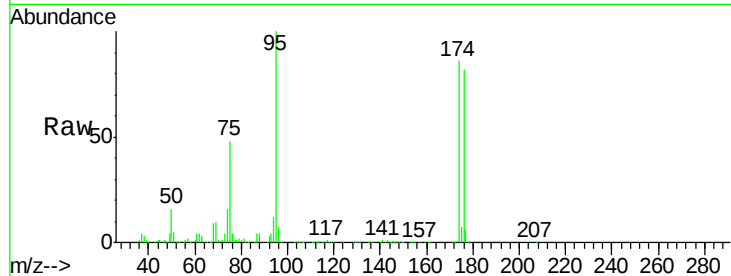
Tot Ion: 95 Resp: 178840

Ion Ratio Lower Upper

95 100

174 84.6 0.0 163.0

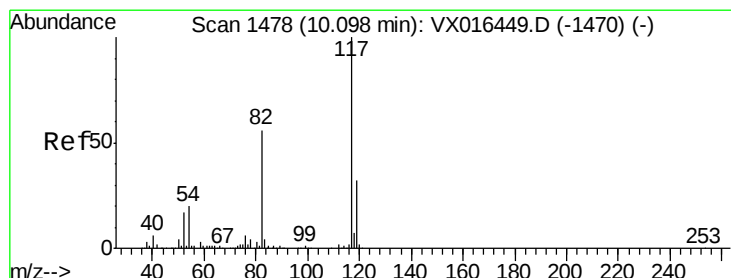
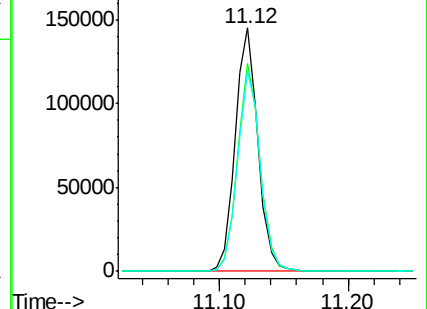
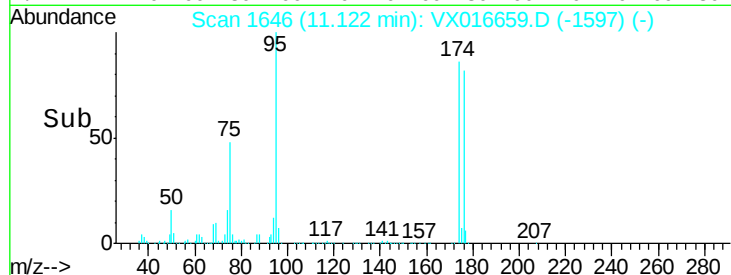
176 82.6 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016659.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016659.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016659.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

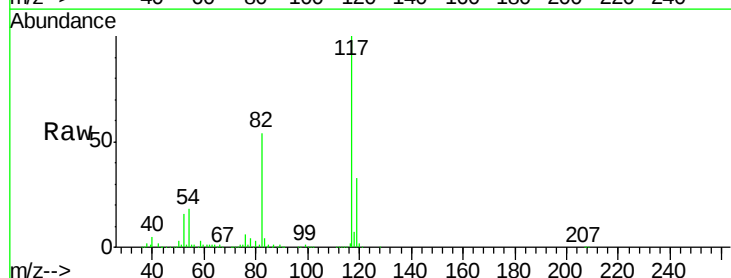
Tgt Ion: 117 Resp: 365038

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.6

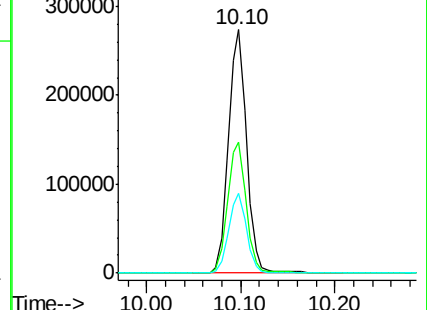
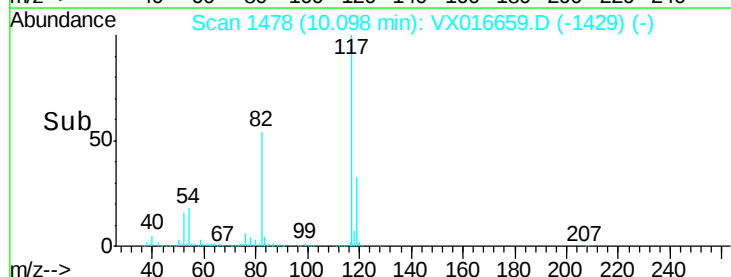
119 32.5 25.8 38.8

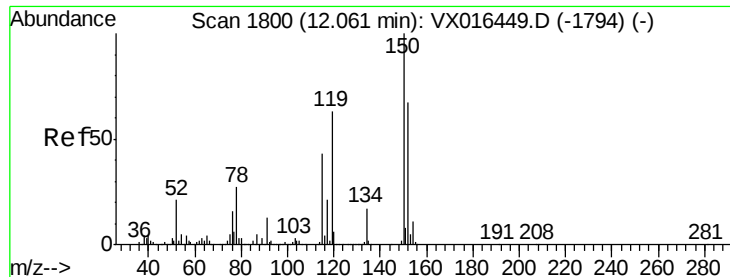


Abundance Ion 116.90 (116.60 to 117.60): VX016659.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016659.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016659.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

2020-06-04-TB02

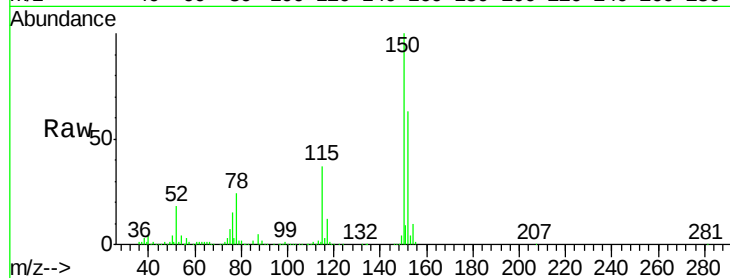
Tot Ion:152 Resp: 187579

Ion Ratio Lower Upper

152 100

115 58.4 39.9 119.6

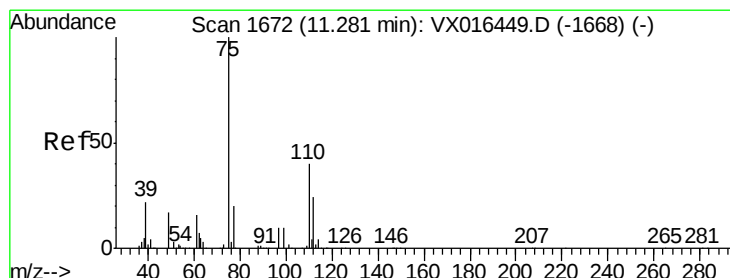
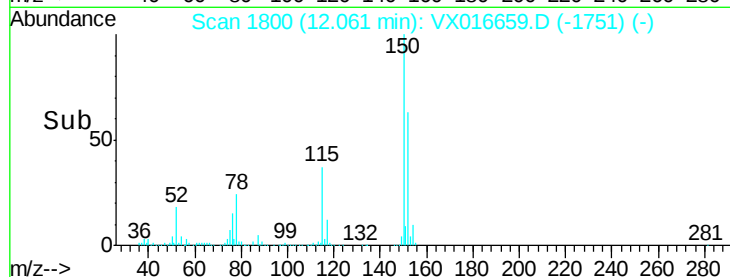
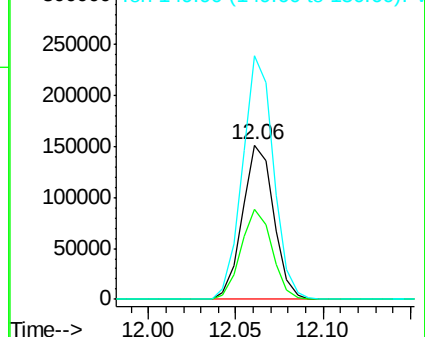
150 156.8 0.0 341.0



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: 21.138 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016659.D

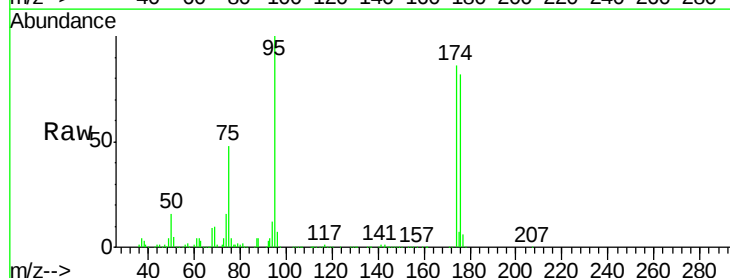
Acq: 09 Jun 2020 13:23

Tgt Ion: 75 Resp: 87155

Ion Ratio Lower Upper

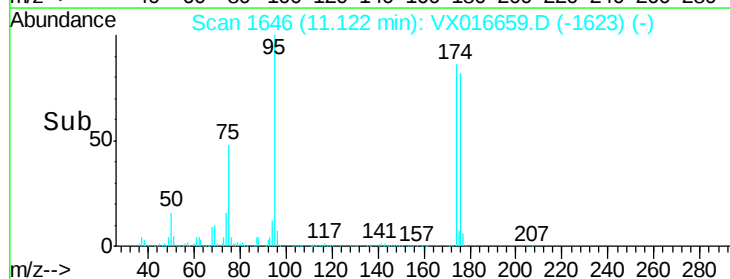
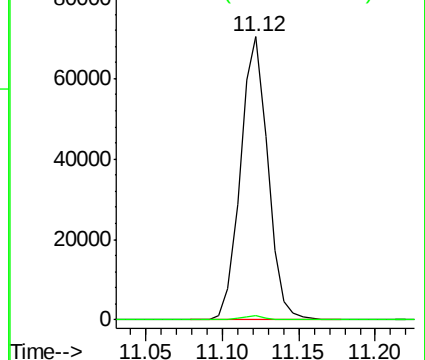
75 100

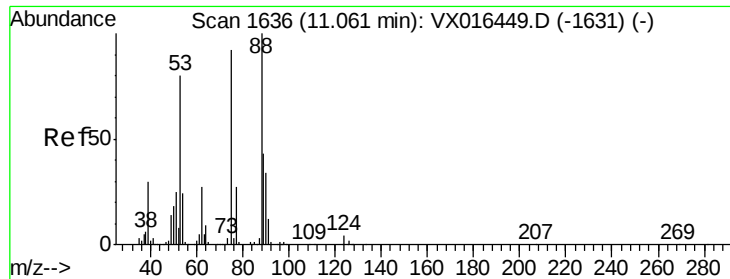
77 1.2 21.3 63.7#



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: 51.997 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

2020-06-04-TB02

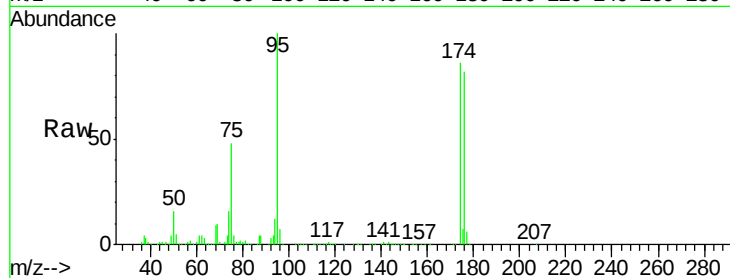
Tot Ion: 75 Resp: 87155

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

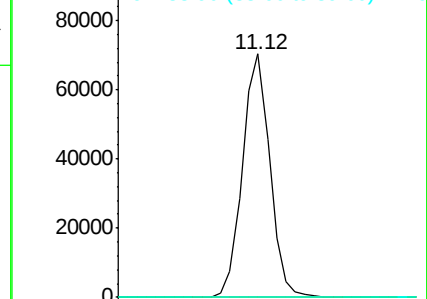
89 0.0 36.6 55.0#



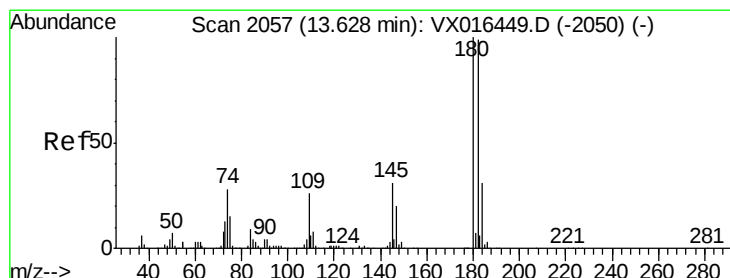
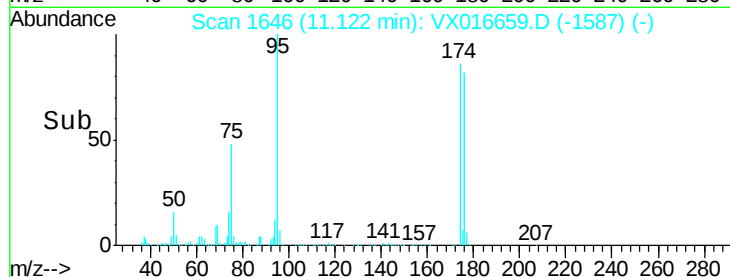
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.317 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

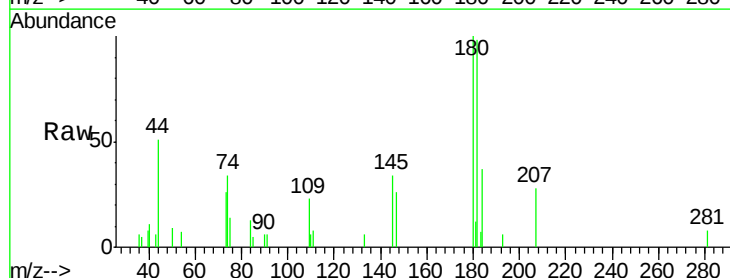
Tgt Ion: 180 Resp: 1203

Ion Ratio Lower Upper

180 100

182 99.9 48.3 144.8

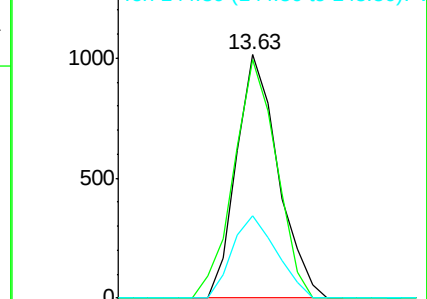
145 36.0 15.4 46.2



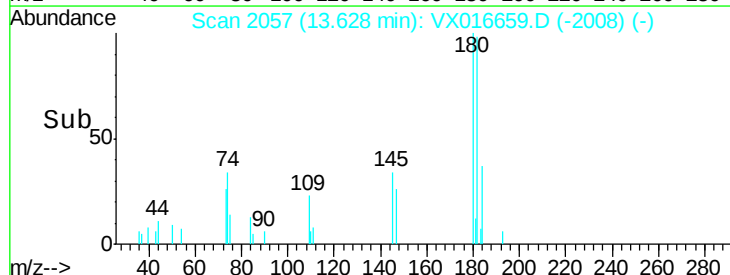
Abundance Ion 179.80 (179.50 to 180.50): V

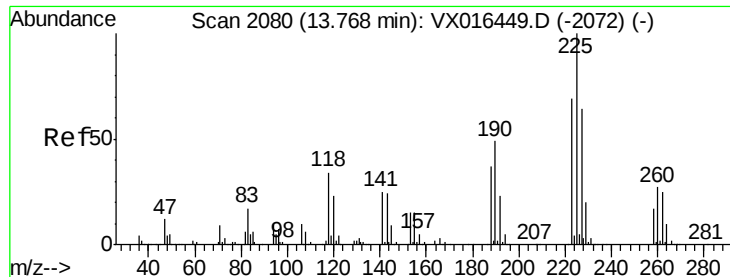
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->





#94

Hexachlorobutadiene

Concen: 0.572 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

Instrument :

MSVOA_X

ClientSampleId :

2020-06-04-TB02

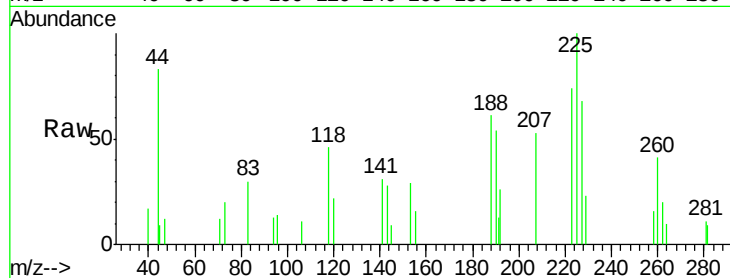
Tot Ion:225 Resp: 853

Ion Ratio Lower Upper

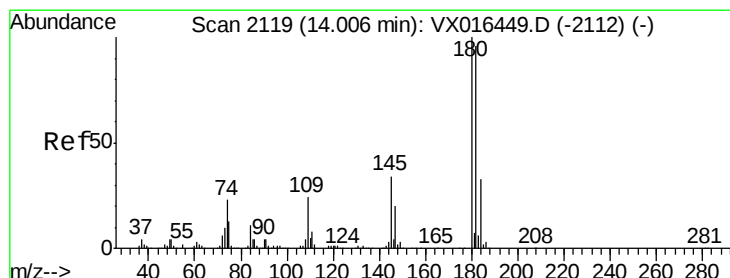
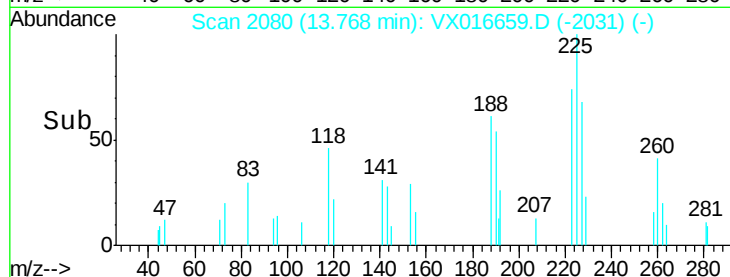
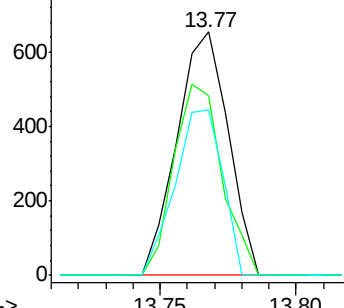
225 100

223 74.1 32.3 96.8

227 63.3 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.270 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX016659.D

Acq: 09 Jun 2020 13:23

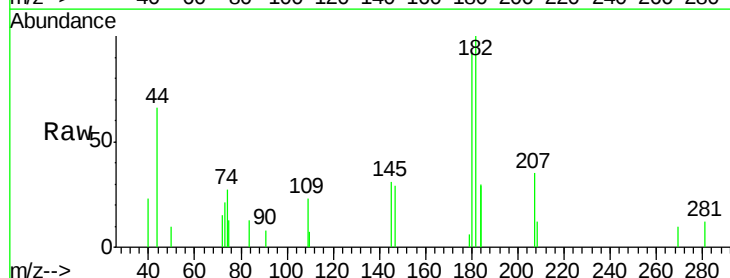
Tgt Ion:180 Resp: 1006

Ion Ratio Lower Upper

180 100

182 90.4 48.6 145.8

145 33.2 16.6 49.8



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

