

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050420\
 Data File : VX016036.D
 Acq On : 04 May 2020 15:19
 Operator : JC/SP
 Sample : VX0504WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0504WBL01

Quant Time: May 05 07:26:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:11:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	317228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	511110	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	481353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	233898	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	191448	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.46	113	150351	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	8.70	98	617366	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	11.12	95	240851	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	

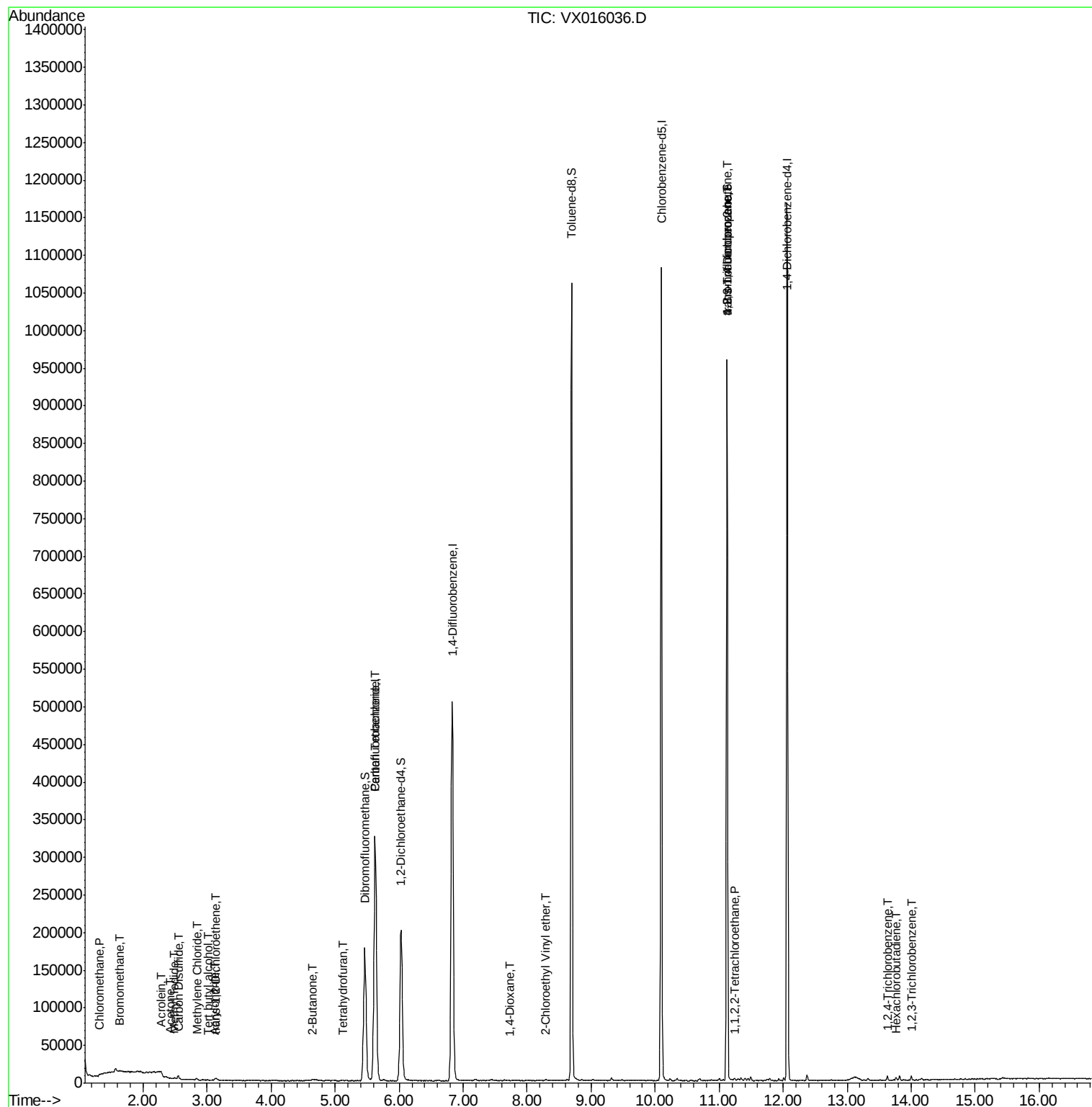
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1304	0.334	ug/l #	83
5) Bromomethane	1.64	94	1176	0.561	ug/l	85
10) Methyl Iodide	2.49	142	2023	0.478	ug/l	98
11) Tert butyl alcohol	3.01	59	349	0.331	ug/l #	88
13) Acrolein	2.28	56	1233	1.867	ug/l	88
15) Acrylonitrile	3.11	53	1364	0.623	ug/l #	94
16) Acetone	2.42	43	833	0.447	ug/l	92
17) Carbon Disulfide	2.55	76	6418	0.443	ug/l	100
20) Methylene Chloride	2.84	84	802	0.209	ug/l	90
21) trans-1,2-Dichloroethene	3.14	96	1174	0.319	ug/l #	75
25) 2-Butanone	4.64	43	673	0.224	ug/l #	88
29) Tetrahydrofuran	5.12	42	951	0.478	ug/l #	58
38) Carbon Tetrachloride	5.63	117	31350	6.130	ug/l #	14
49) 1,4-Dioxane	7.72	88	48	0.454	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.29	63	670	0.214	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.25	83	57	4.826	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	123794	23.323	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	123794	55.582	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1553	0.276	ug/l	97
94) Hexachlorobutadiene	13.76	225	490	0.724	ug/l	96
96) 1,2,3-Trichlorobenzene	14.00	180	1255	0.228	ug/l	95

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

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Quant Title : SW846 8260
QLast Update : Tue May 05 07:11:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

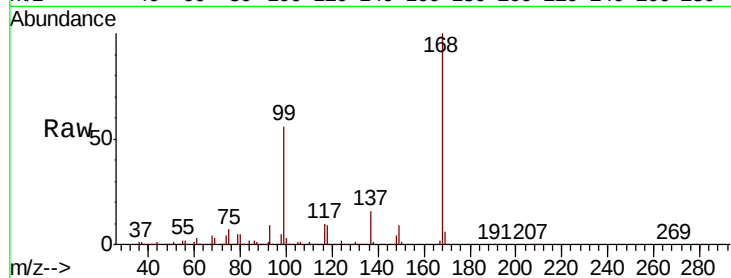
VX0504WBL01

Tot Ion:168 Resp: 317228

Ion Ratio Lower Upper

168 100

99 56.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

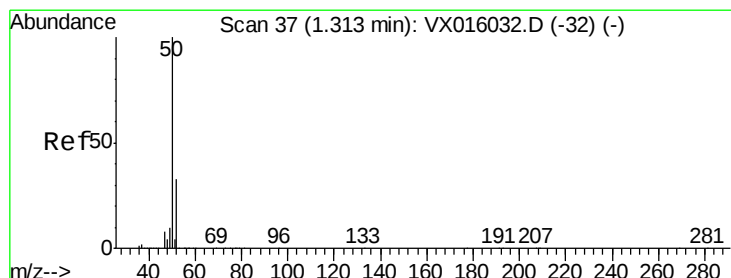
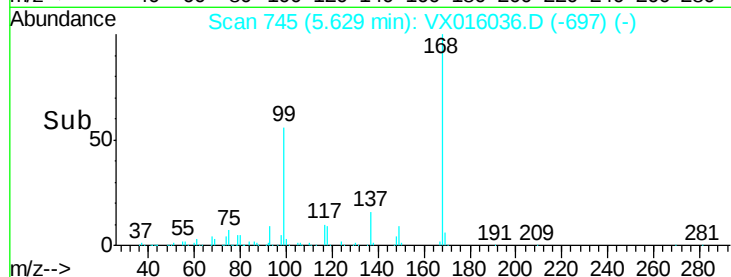
5.63

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.334 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016036.D

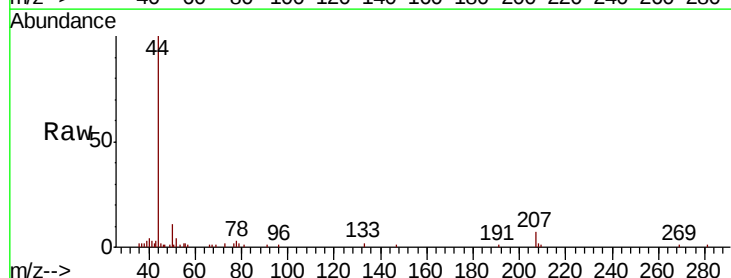
Acq: 04 May 2020 15:19

Tgt Ion: 50 Resp: 1304

Ion Ratio Lower Upper

50 100

52 23.1 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

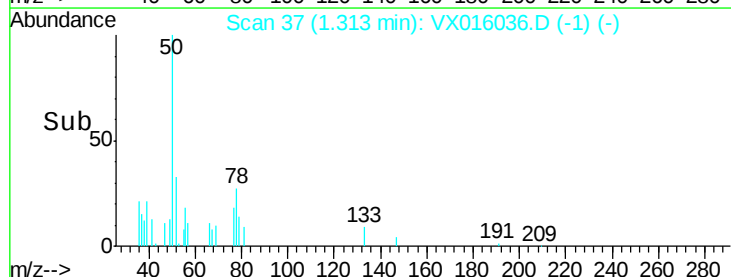
600

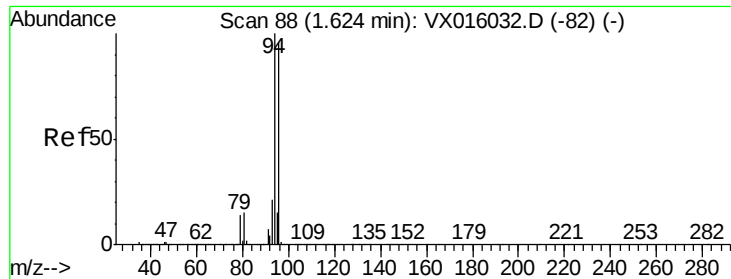
400

200

0

Time-->





#5

Bromomethane

Concen: 0.561 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

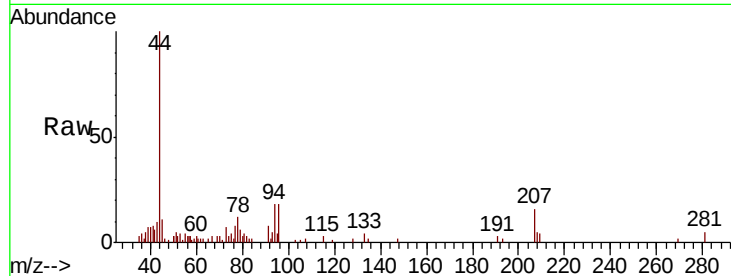
VX0504WBL01

Tot Ion: 94 Resp: 1176

Ion Ratio Lower Upper

94 100

96 81.2 76.9 115.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

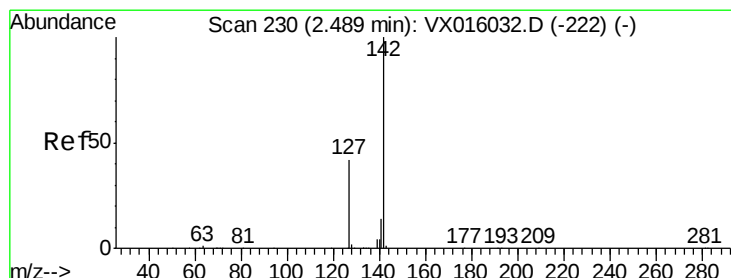
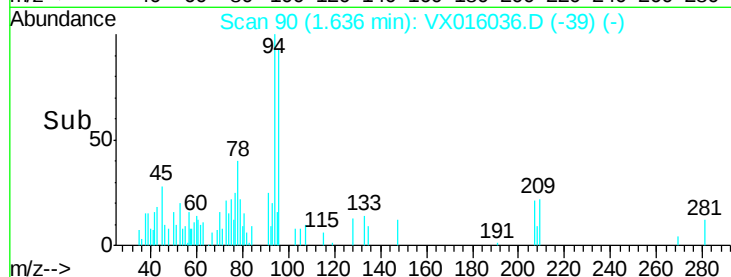
400

200

0

1.60 1.65

Time-->



#10

Methyl Iodide

Concen: 0.478 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

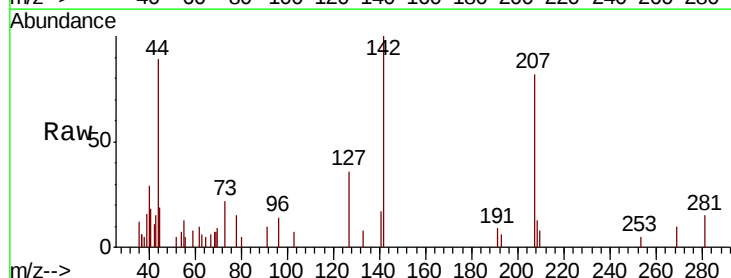
Tgt Ion: 142 Resp: 2023

Ion Ratio Lower Upper

142 100

127 42.6 34.6 52.0

141 12.7 11.3 16.9



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

2.49

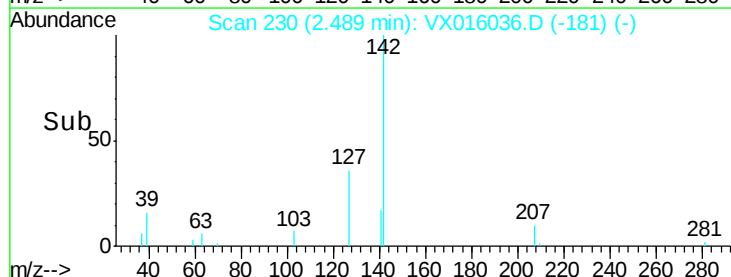
1000

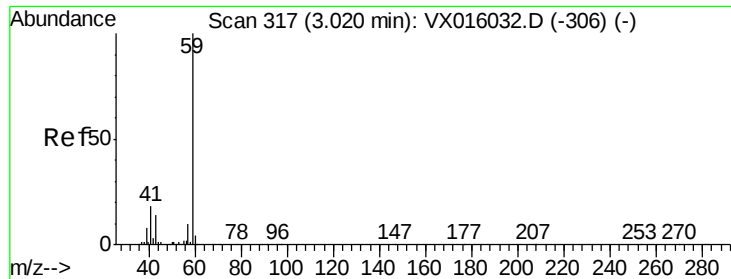
500

0

2.45 2.50 2.55 2.60

Time-->

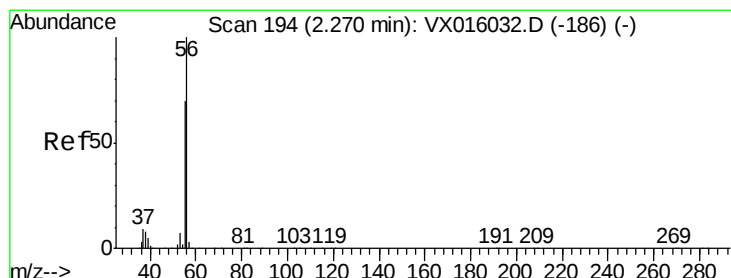
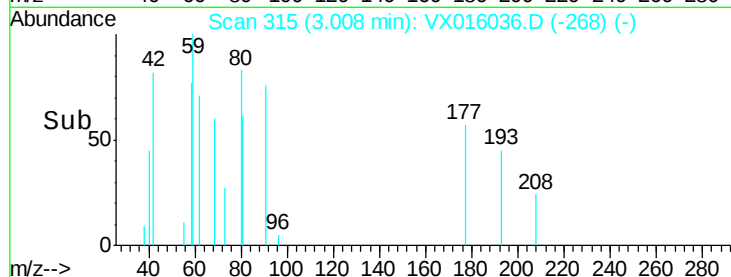
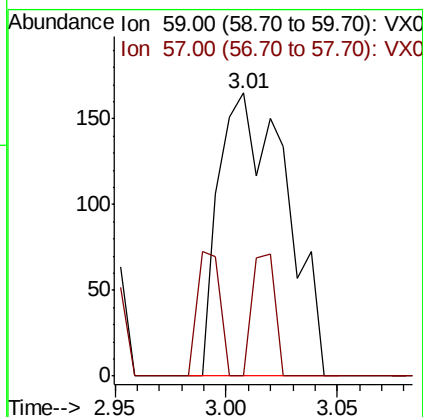
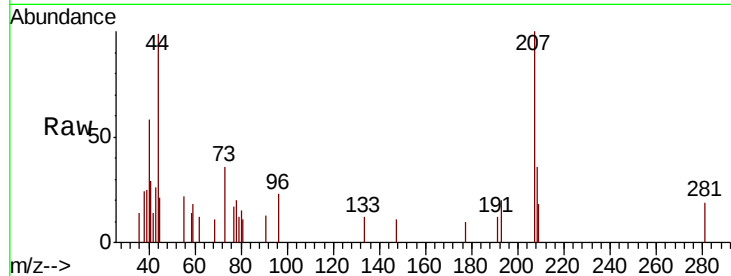




#11
Tert butyl alcohol
Concen: 0.331 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

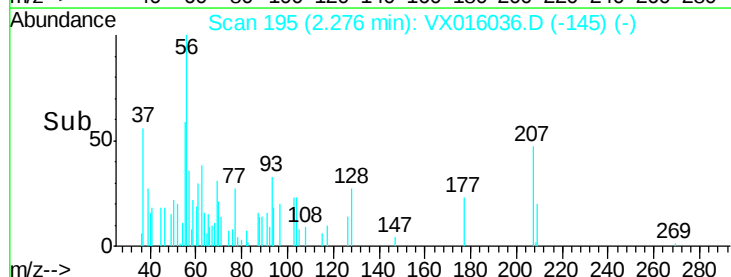
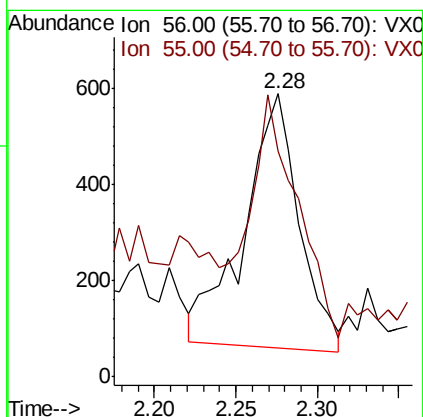
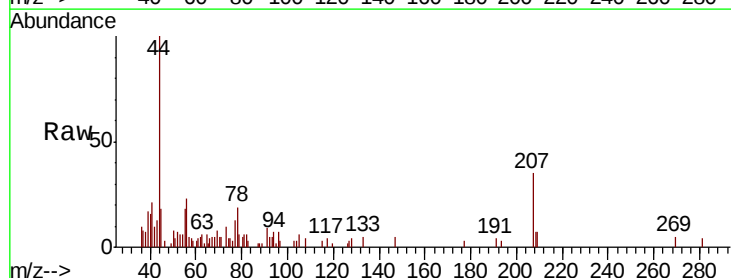
Instrument :
MSVOA_X
ClientSampleId :
VX0504WBL01

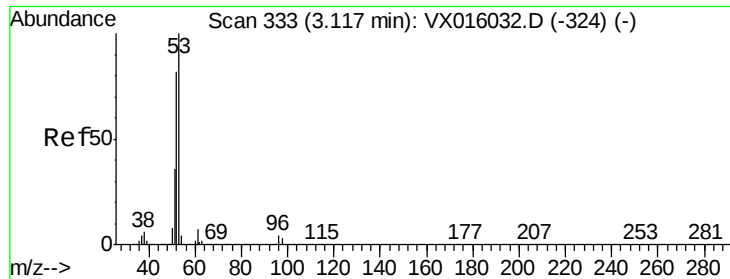
Tot Ion: 59 Resp: 349
Ion Ratio Lower Upper
59 100
57 14.6 8.2 12.4#



#13
Acrolein
Concen: 1.867 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

Tgt Ion: 56 Resp: 1233
Ion Ratio Lower Upper
56 100
55 80.8 56.5 84.7





#15

Acrylonitrile

Concen: 0.623 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

VX0504WBL01

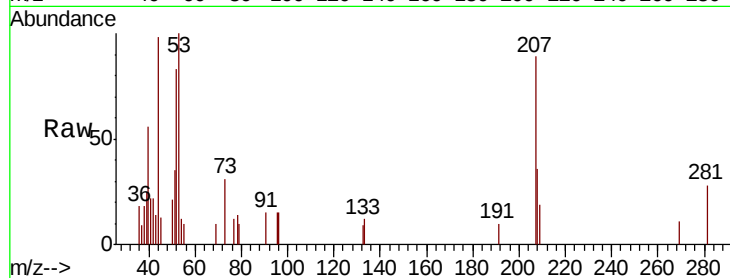
Tot Ion: 53 Resp: 1364

Ion Ratio Lower Upper

53 100

52 84.0 66.1 99.1

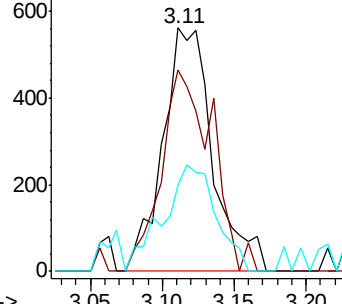
51 46.0 28.8 43.2#



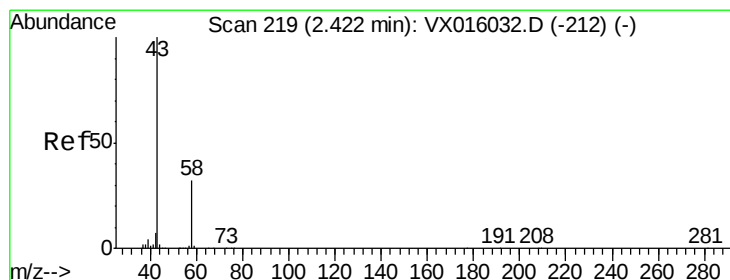
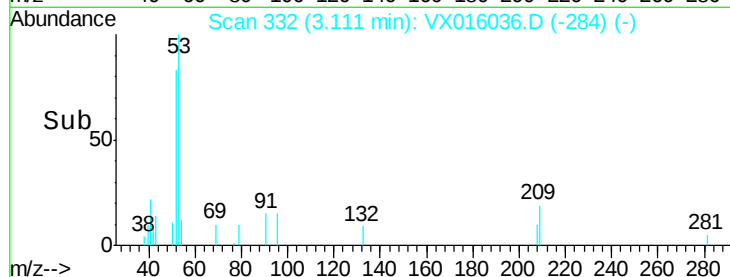
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 0.447 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016036.D

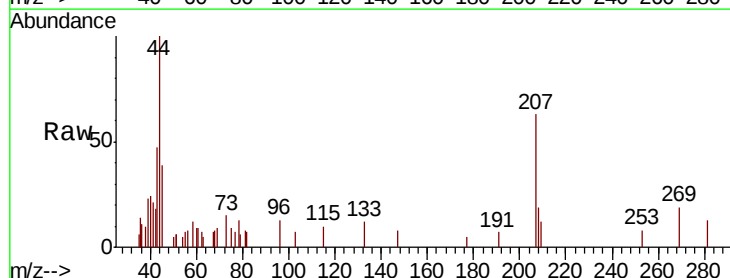
Acq: 04 May 2020 15:19

Tgt Ion: 43 Resp: 833

Ion Ratio Lower Upper

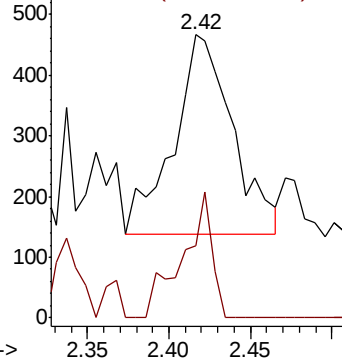
43 100

58 36.4 25.4 38.0

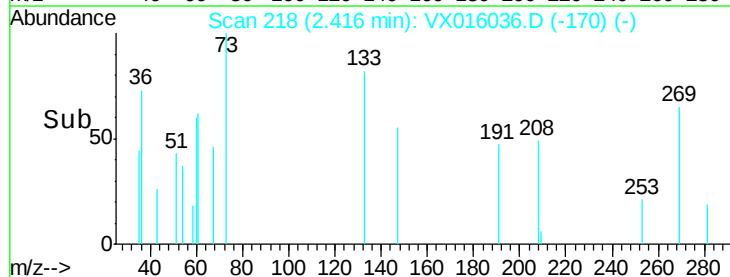


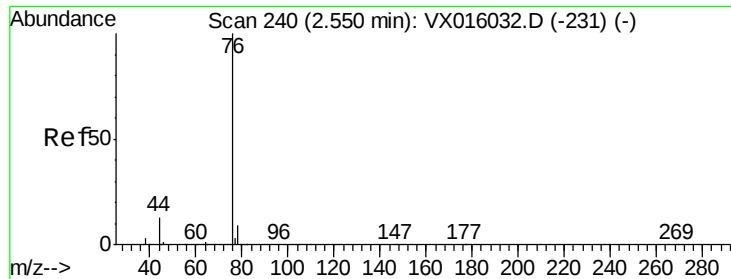
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->

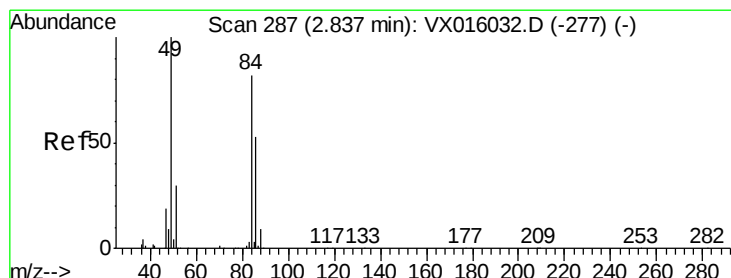
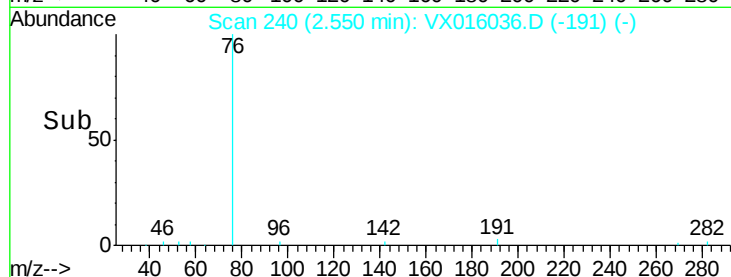
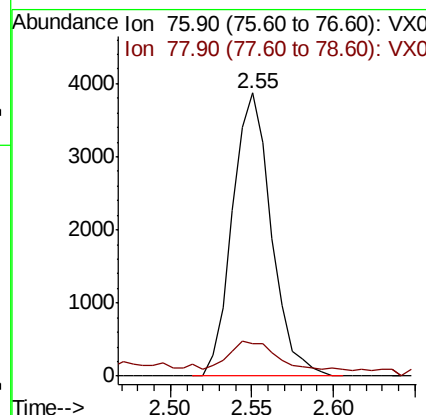
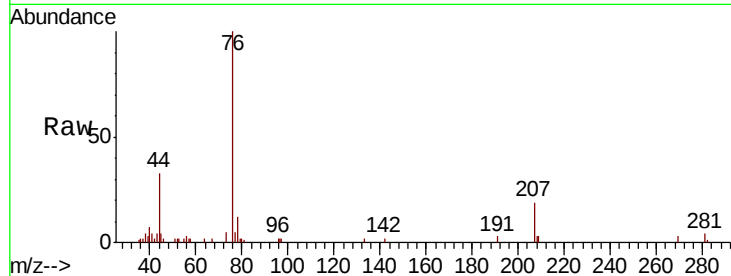




#17
Carbon Disulfide
Concen: 0.443 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

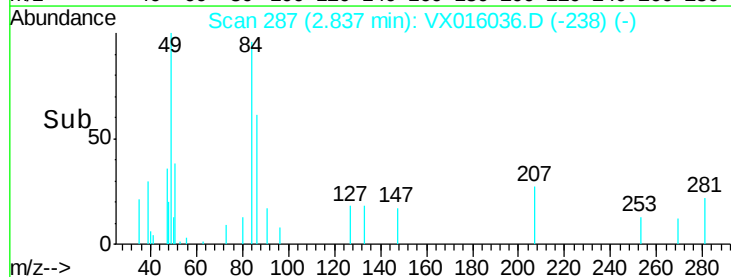
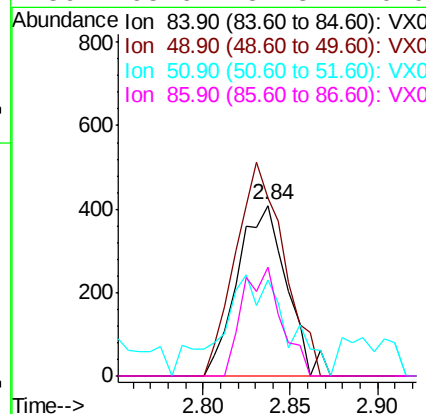
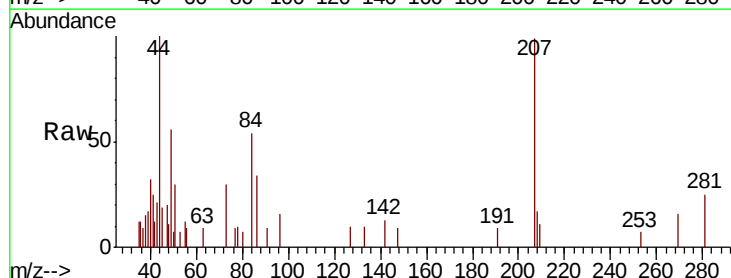
Instrument :
MSVOA_X
ClientSampleId :
VX0504WBL01

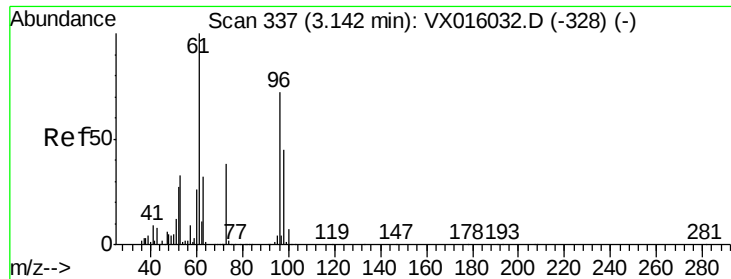
Tot Ion: 76 Resp: 6418
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3



#20
Methylene Chloride
Concen: 0.209 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

Tgt Ion: 84 Resp: 802
Ion Ratio Lower Upper
84 100
49 104.2 97.3 145.9
51 40.3 29.3 43.9
86 63.6 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 0.319 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

VX0504WBL01

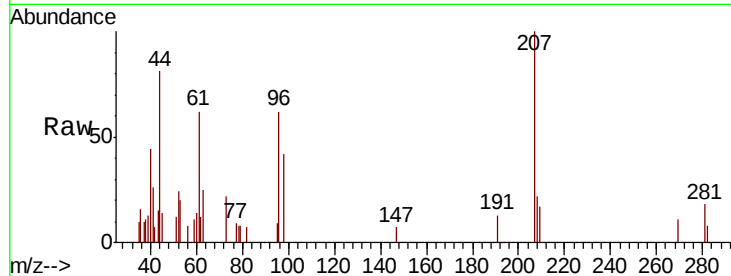
Tot Ion: 96 Resp: 1174

Ion Ratio Lower Upper

96 100

61 98.7 111.2 166.8#

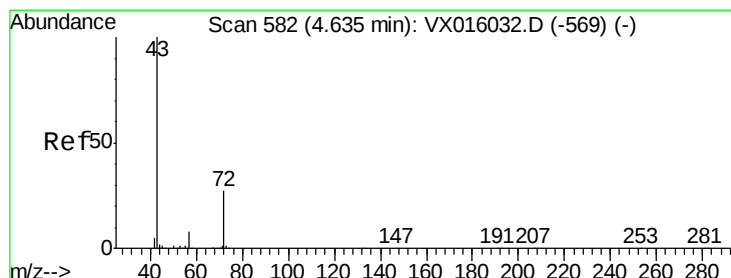
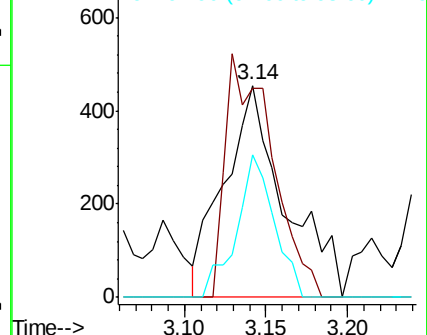
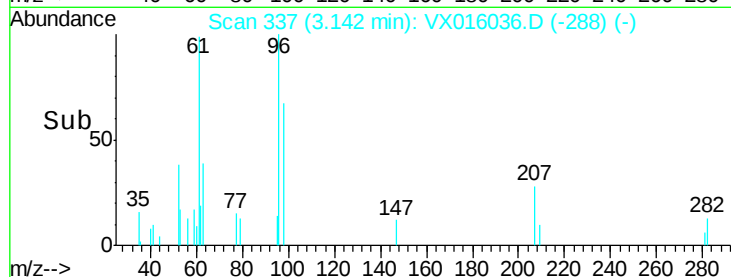
98 67.4 50.2 75.4



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



#25

2-Butanone

Concen: 0.224 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016036.D

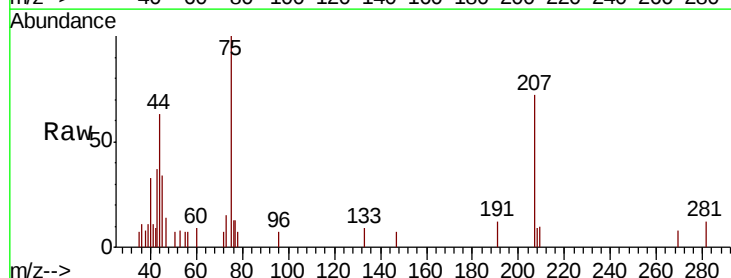
Acq: 04 May 2020 15:19

Tgt Ion: 43 Resp: 673

Ion Ratio Lower Upper

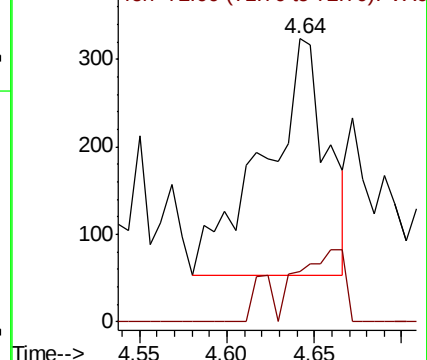
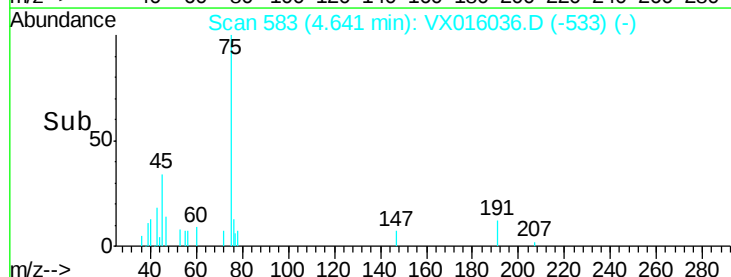
43 100

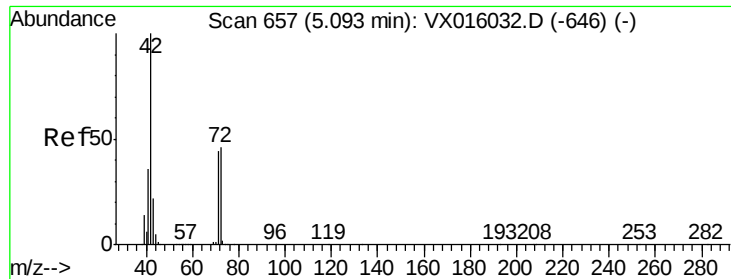
72 21.1 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

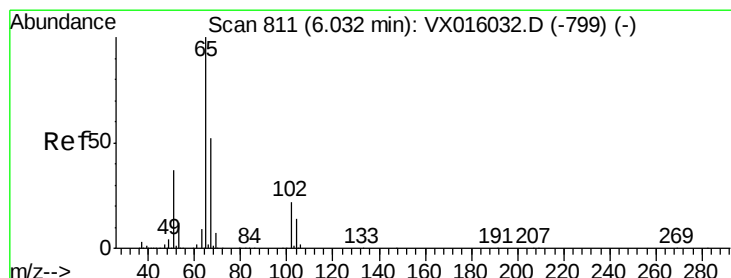
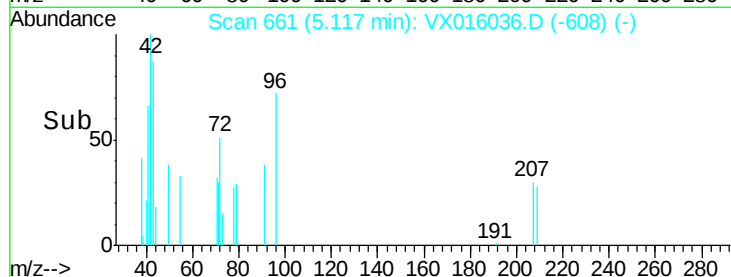
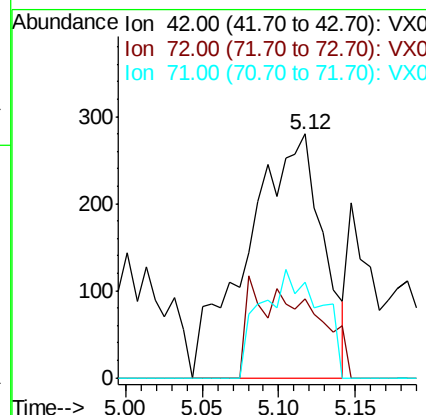
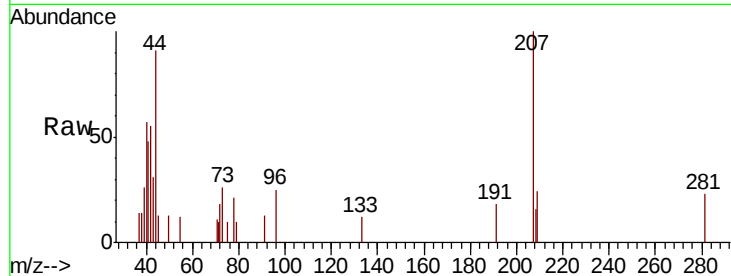




#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

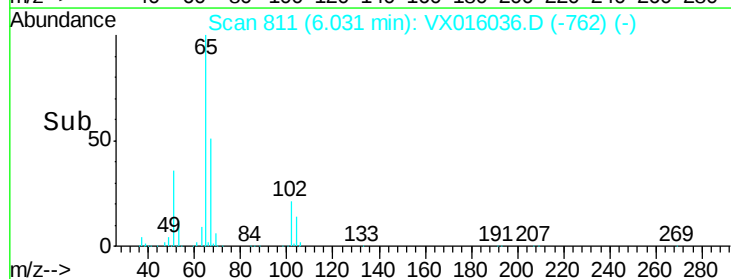
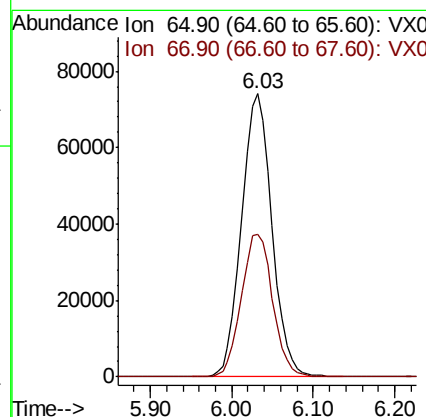
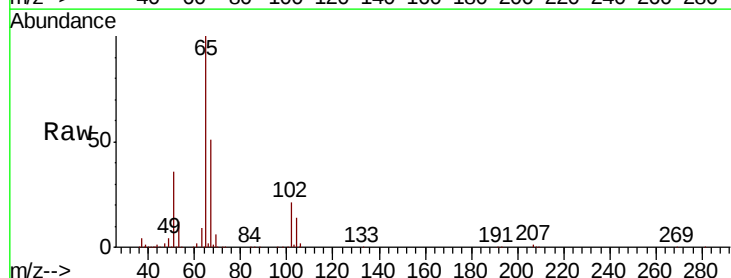
Instrument :
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VX0504WBL01

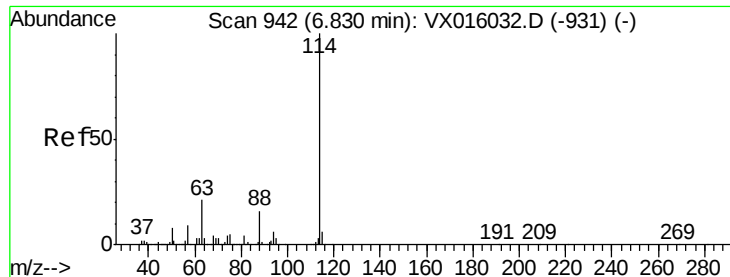
Tot Ion: 42 Resp: 951
Ion Ratio Lower Upper
42 100
72 0.0 37.1 55.7#
71 34.8 34.5 51.7



#33
1,2-Dichloroethane-d4
Concen: 45.862 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016036.D
Acq: 04 May 2020 15:19

Tgt Ion: 65 Resp: 191448
Ion Ratio Lower Upper
65 100
67 52.1 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: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

VX0504WBL01

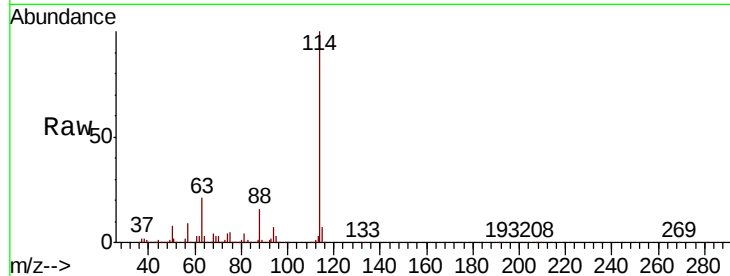
Tot Ion:114 Resp: 511110

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.8

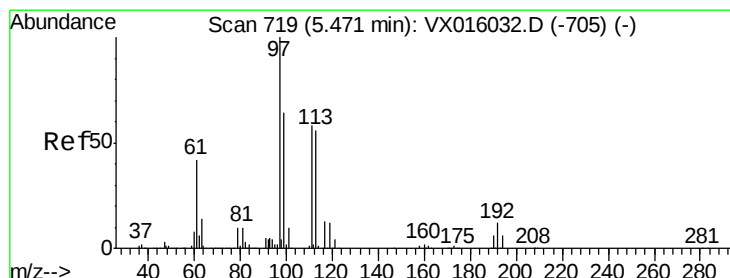
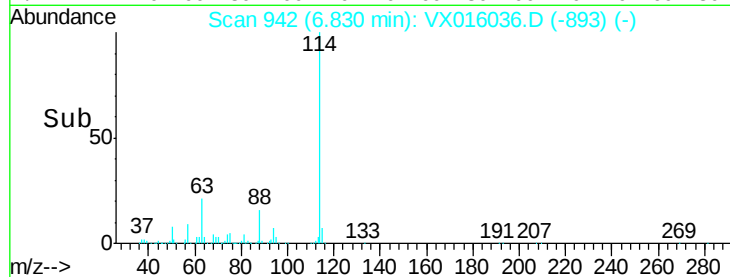
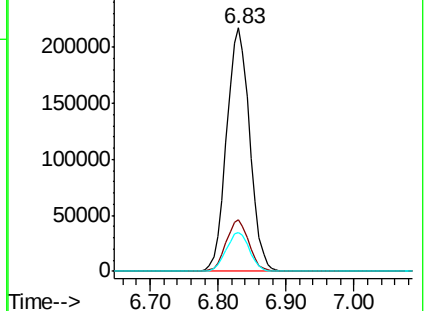
88 16.1 0.0 31.4



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: 46.432 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

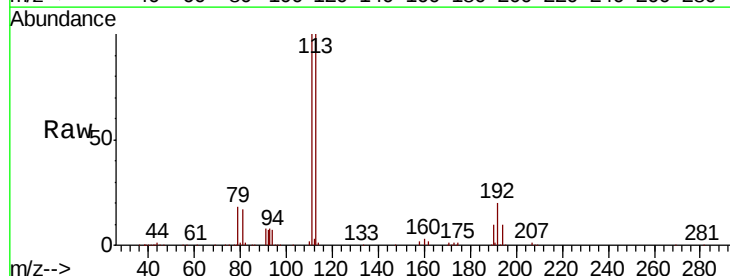
Tgt Ion:113 Resp: 150351

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

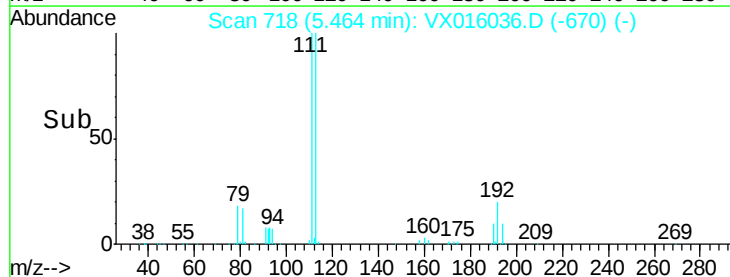
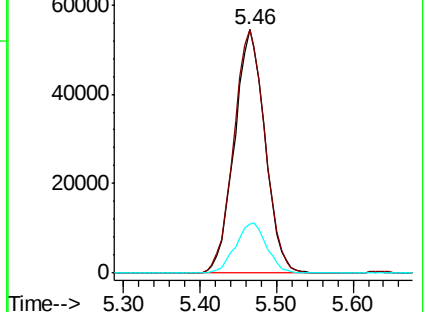
192 21.2 17.0 25.4

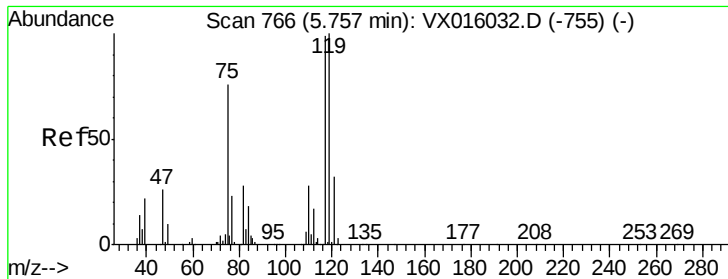


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.130 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampled :

VX0504WBL01

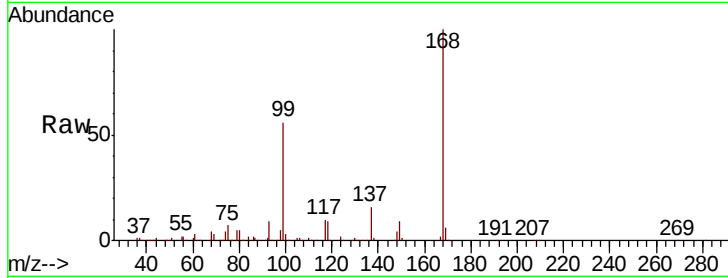
Tot Ion:117 Resp: 31350

Ion Ratio Lower Upper

117 100

119 4.6 80.3 120.5#

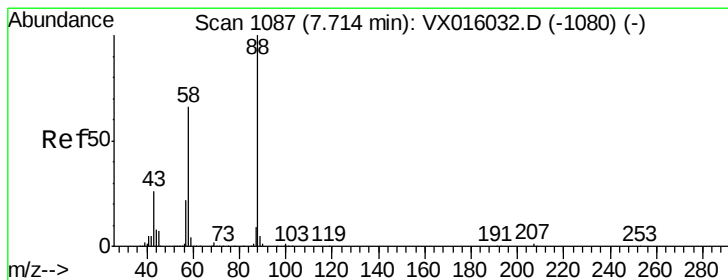
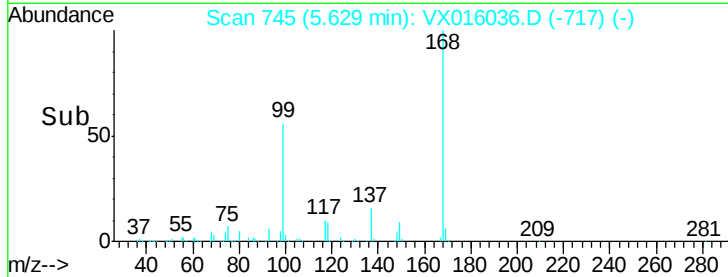
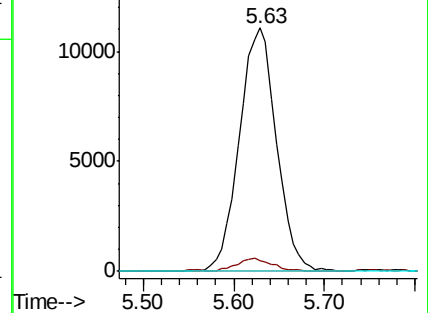
121 0.0 25.7 38.5#



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



#49

1,4-Dioxane

Concen: 0.454 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

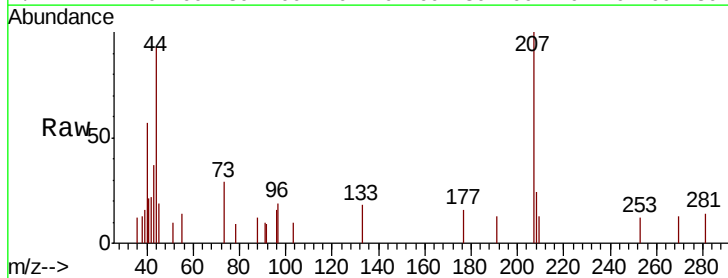
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 177.1 25.3 37.9#

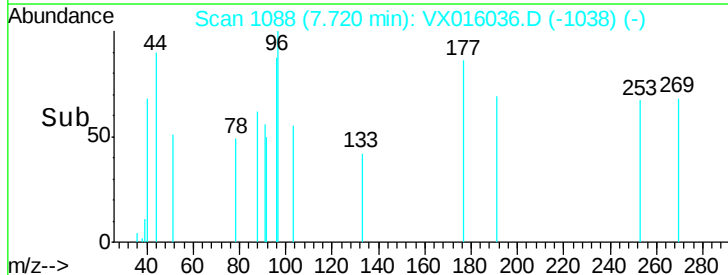
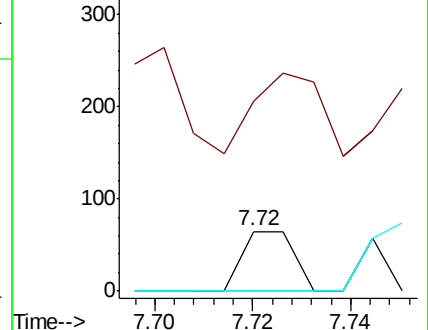
58 0.0 55.9 83.9#

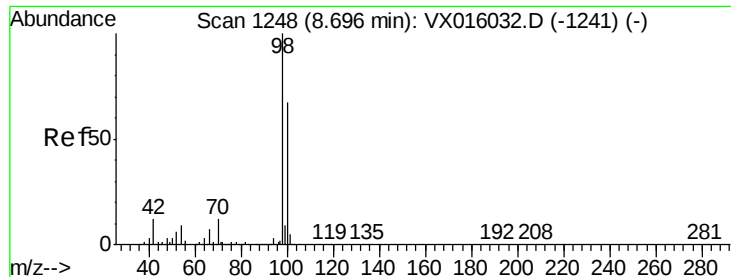


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.482 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

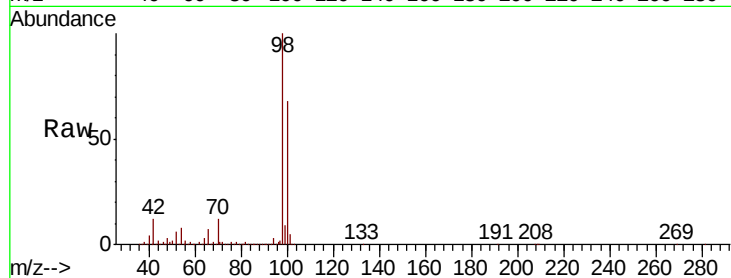
VX0504WBL01

Tot Ion: 98 Resp: 617366

Ion Ratio Lower Upper

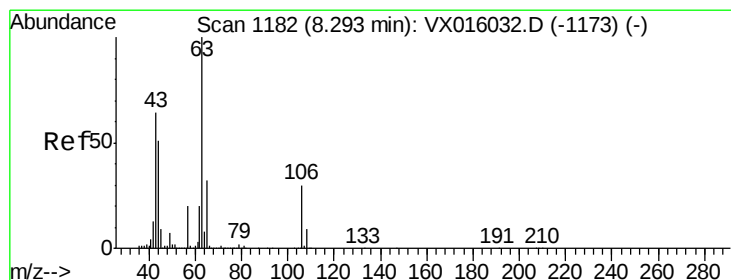
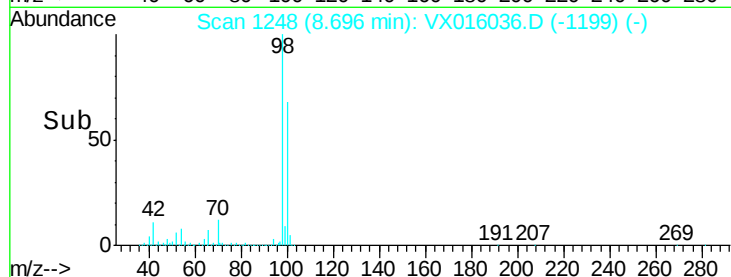
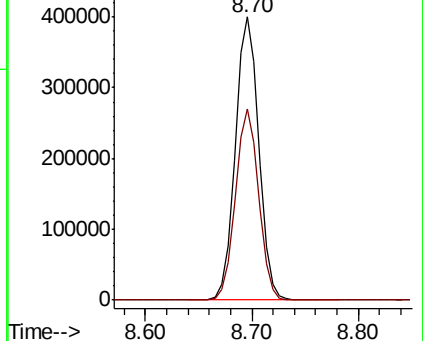
98 100

100 67.0 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#58

2-Chloroethyl Vinyl ether

Concen: 0.214 ug/l

RT: 8.29 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VX016036.D

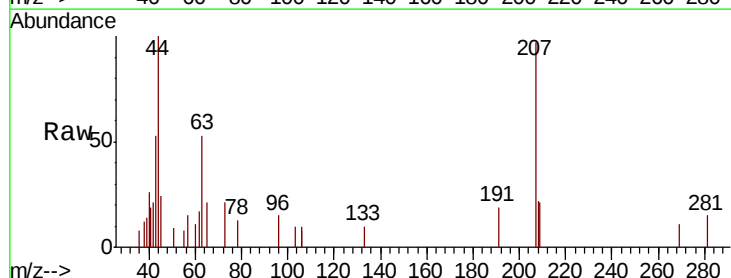
Acq: 04 May 2020 15:19

Tgt Ion: 63 Resp: 670

Ion Ratio Lower Upper

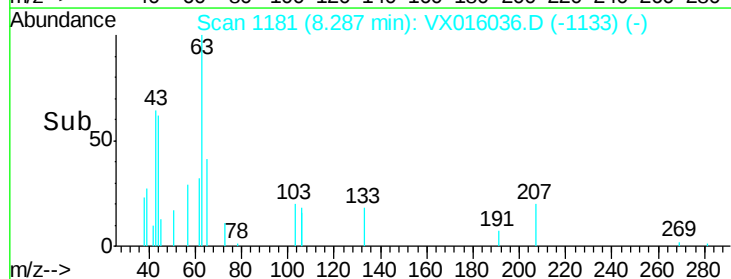
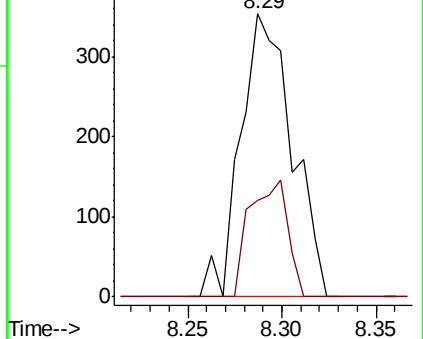
63 100

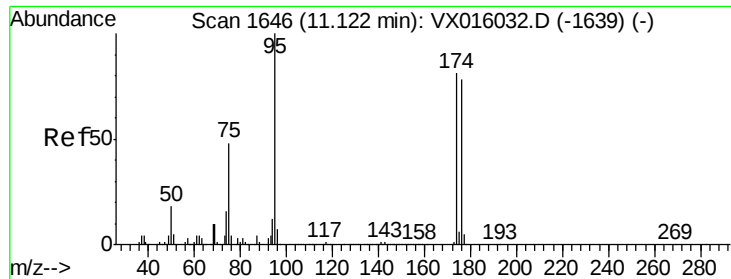
106 30.4 23.4 35.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 50.753 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampled :

VX0504WBL01

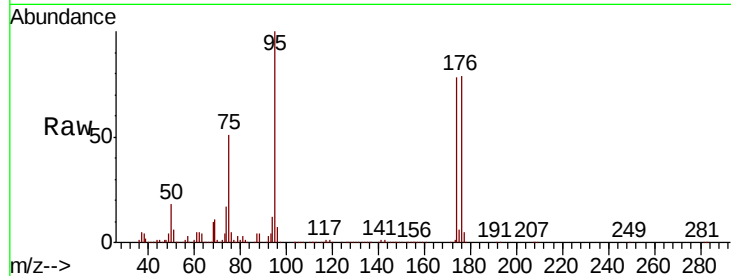
Tot Ion: 95 Resp: 240851

Ion Ratio Lower Upper

95 100

174 79.3 0.0 159.4

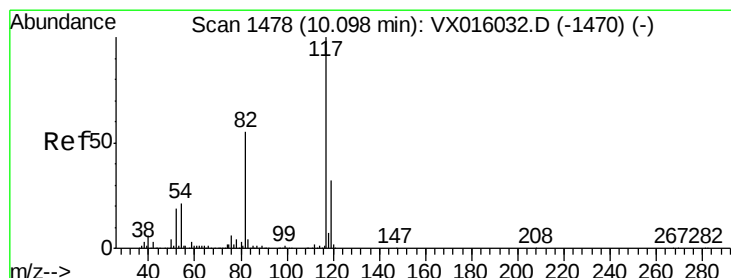
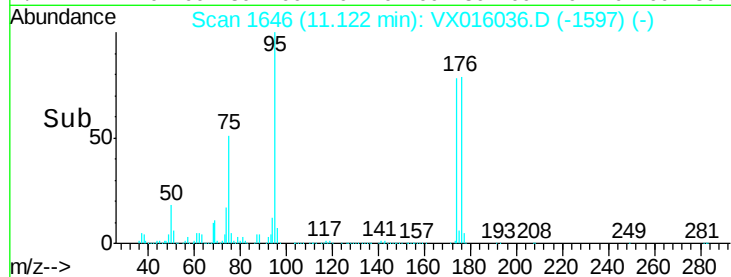
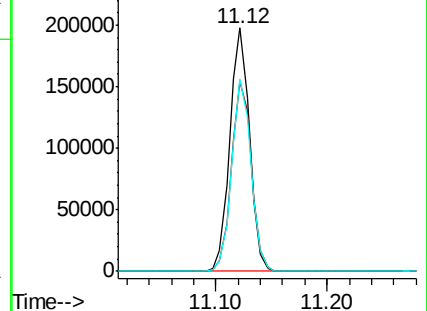
176 78.0 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016036.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016036.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016036.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

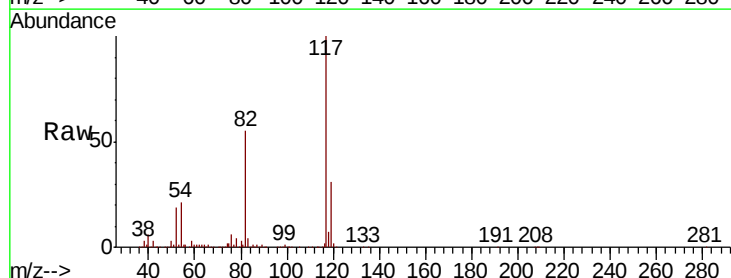
Tgt Ion: 117 Resp: 481353

Ion Ratio Lower Upper

117 100

82 54.8 44.4 66.6

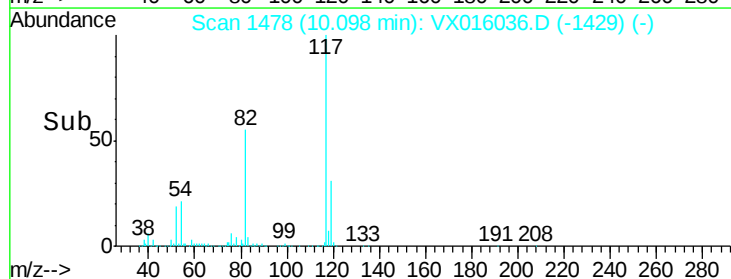
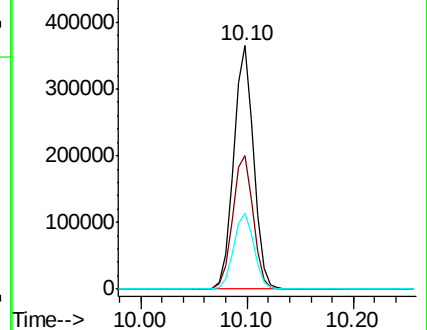
119 31.3 25.5 38.3

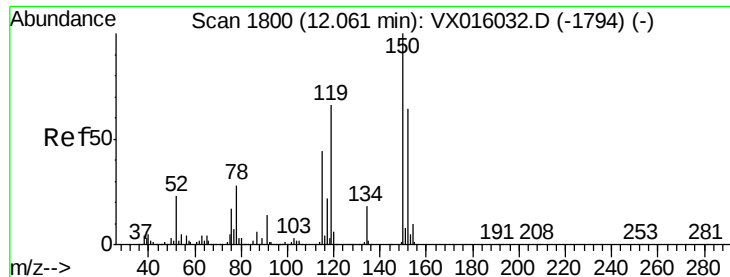


Abundance Ion 116.90 (116.60 to 117.60): VX016036.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016036.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016036.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: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

VX0504WBL01

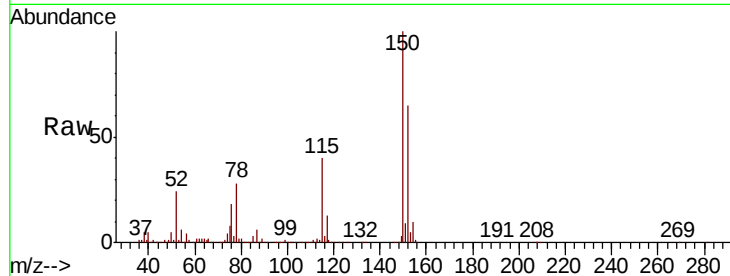
Tot Ion:152 Resp: 233898

Ion Ratio Lower Upper

152 100

115 60.0 41.3 124.1

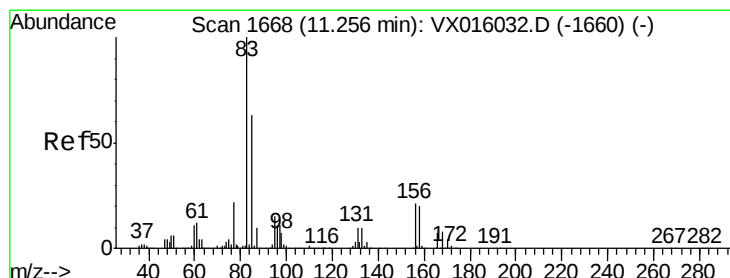
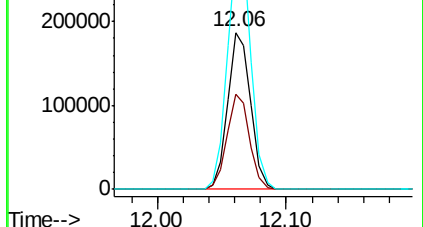
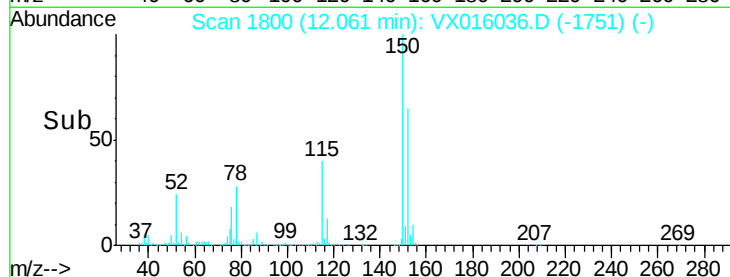
150 159.6 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 4.826 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

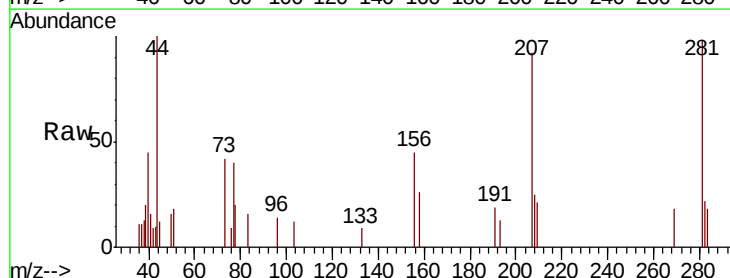
Tgt Ion: 83 Resp: 57

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

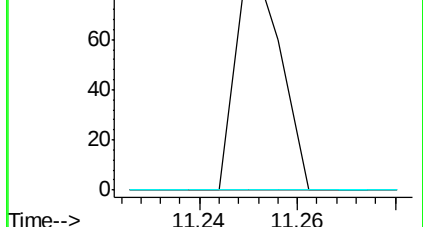
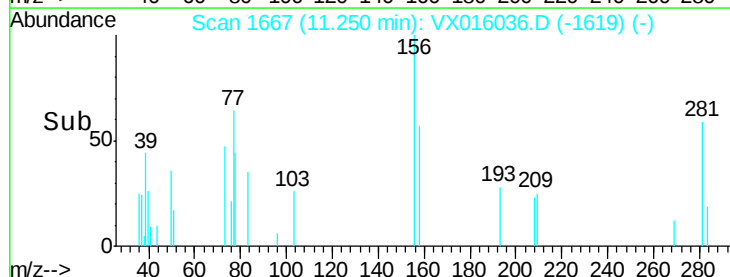
85 0.0 32.0 96.0#

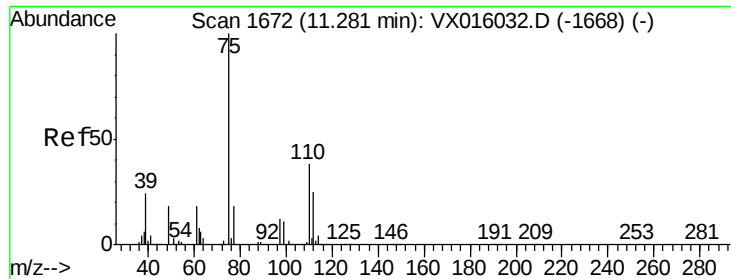


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 23.323 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

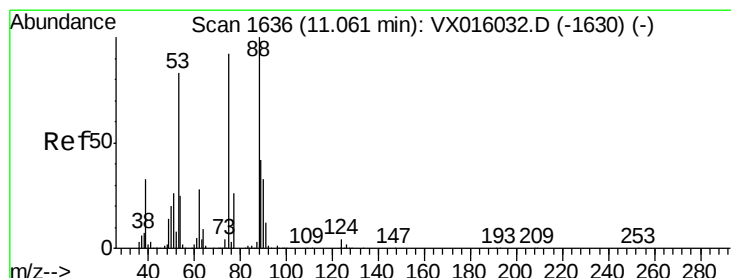
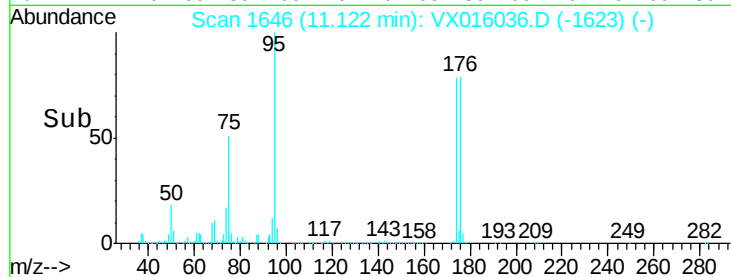
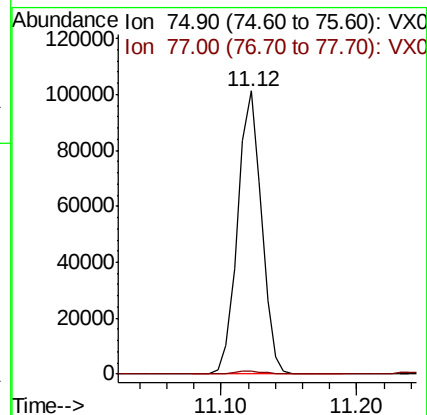
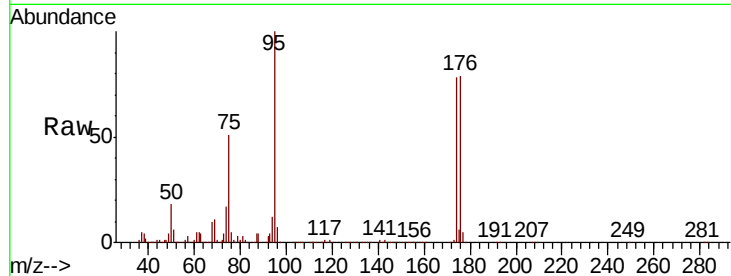
VX0504WBL01

Tot Ion: 75 Resp: 123794

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 55.582 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016036.D

Acq: 04 May 2020 15:19

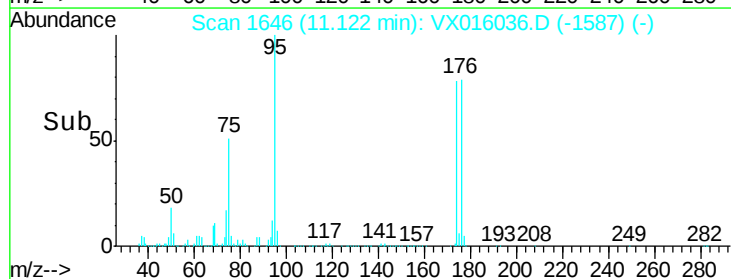
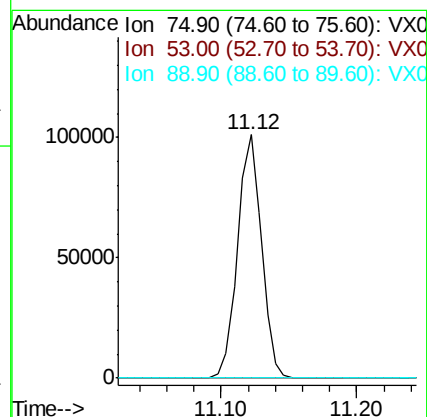
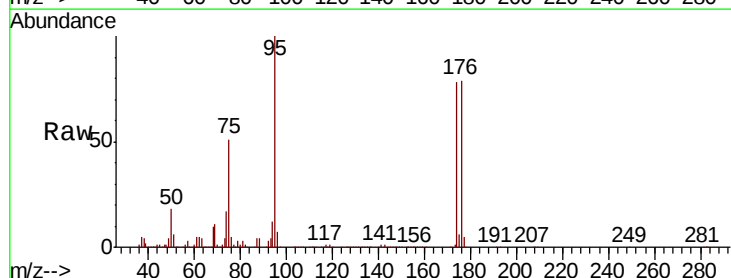
Tgt Ion: 75 Resp: 123794

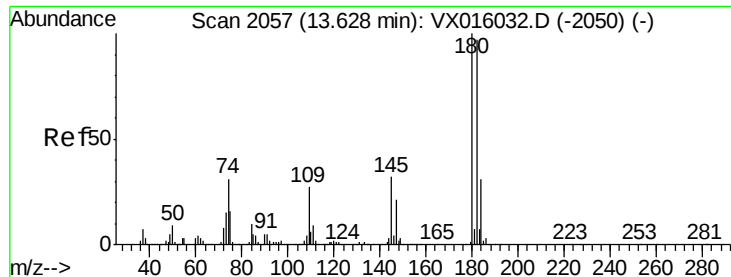
Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#

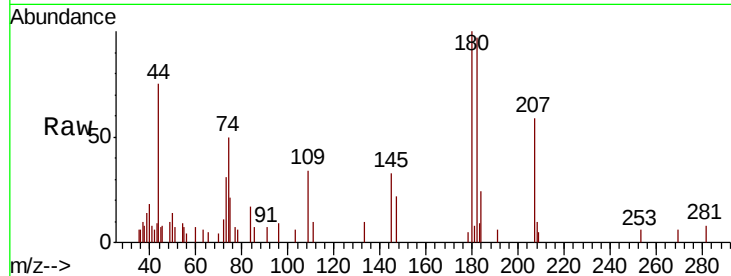




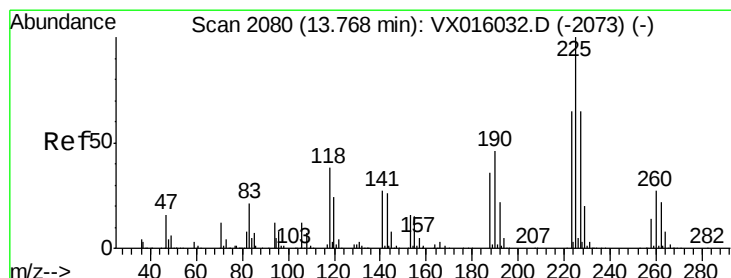
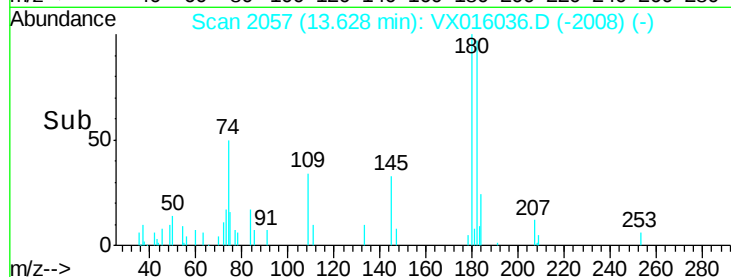
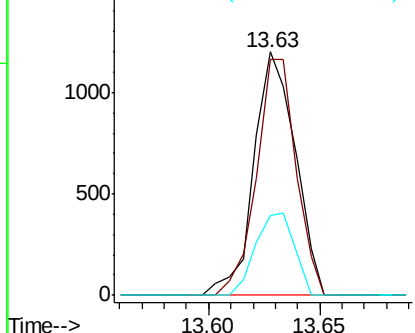
#93
 1,2,4-Trichlorobenzene
 Concen: 0.276 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016036.D
 Acq: 04 May 2020 15:19

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0504WBL01

Tot Ion:180 Resp: 1553
 Ion Ratio Lower Upper
 180 100
 182 93.0 48.7 146.1
 145 31.7 15.7 47.1

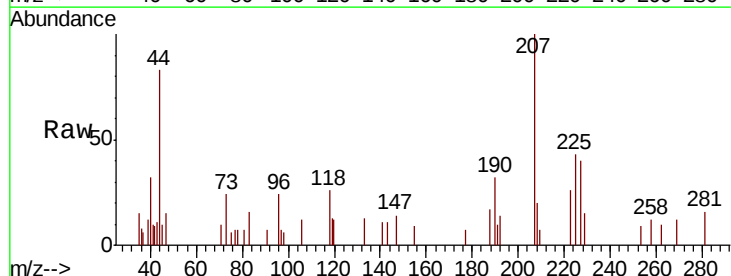


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

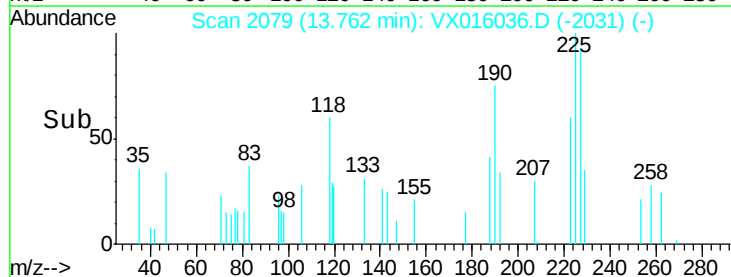
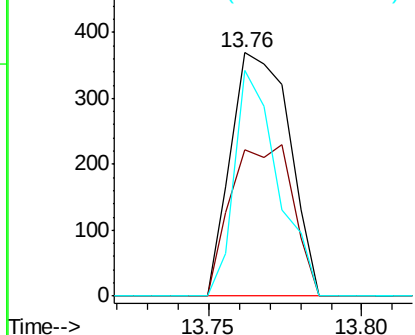


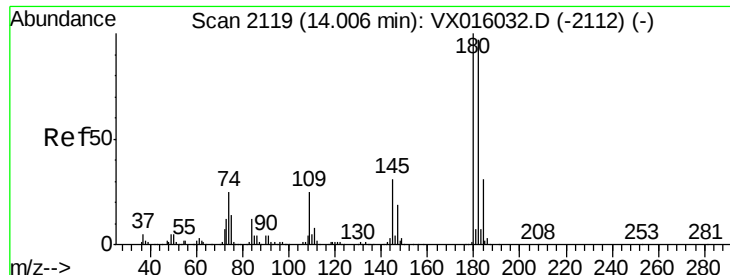
#94
 Hexachlorobutadiene
 Concen: 0.724 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016036.D
 Acq: 04 May 2020 15:19

Tgt Ion:225 Resp: 490
 Ion Ratio Lower Upper
 225 100
 223 65.5 32.3 96.9
 227 68.6 31.8 95.4



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

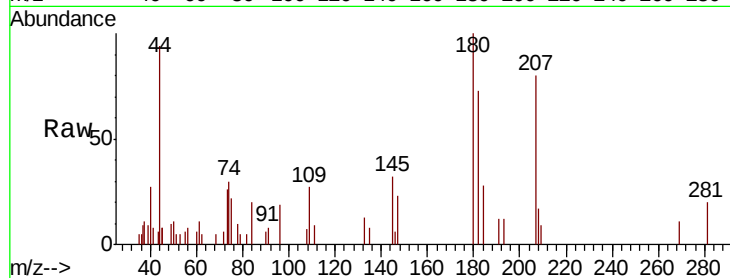




#96
 1,2,3-Trichlorobenzene
 Concen: 0.228 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX016036.D
 Acq: 04 May 2020 15:19

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0504WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.0	48.4	145.0
145	33.5	16.4	49.1



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

