

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051920\
 Data File : VX016339.D
 Acq On : 19 May 2020 16:58
 Operator : JC/SP
 Sample : L2673-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 104

Quant Time: May 20 03:48:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	226727	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	373310	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	364945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	186248	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	129906	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	
35) Dibromofluoromethane	5.47	113	107573	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	
50) Toluene-d8	8.70	98	460639	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	11.12	95	183986	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	

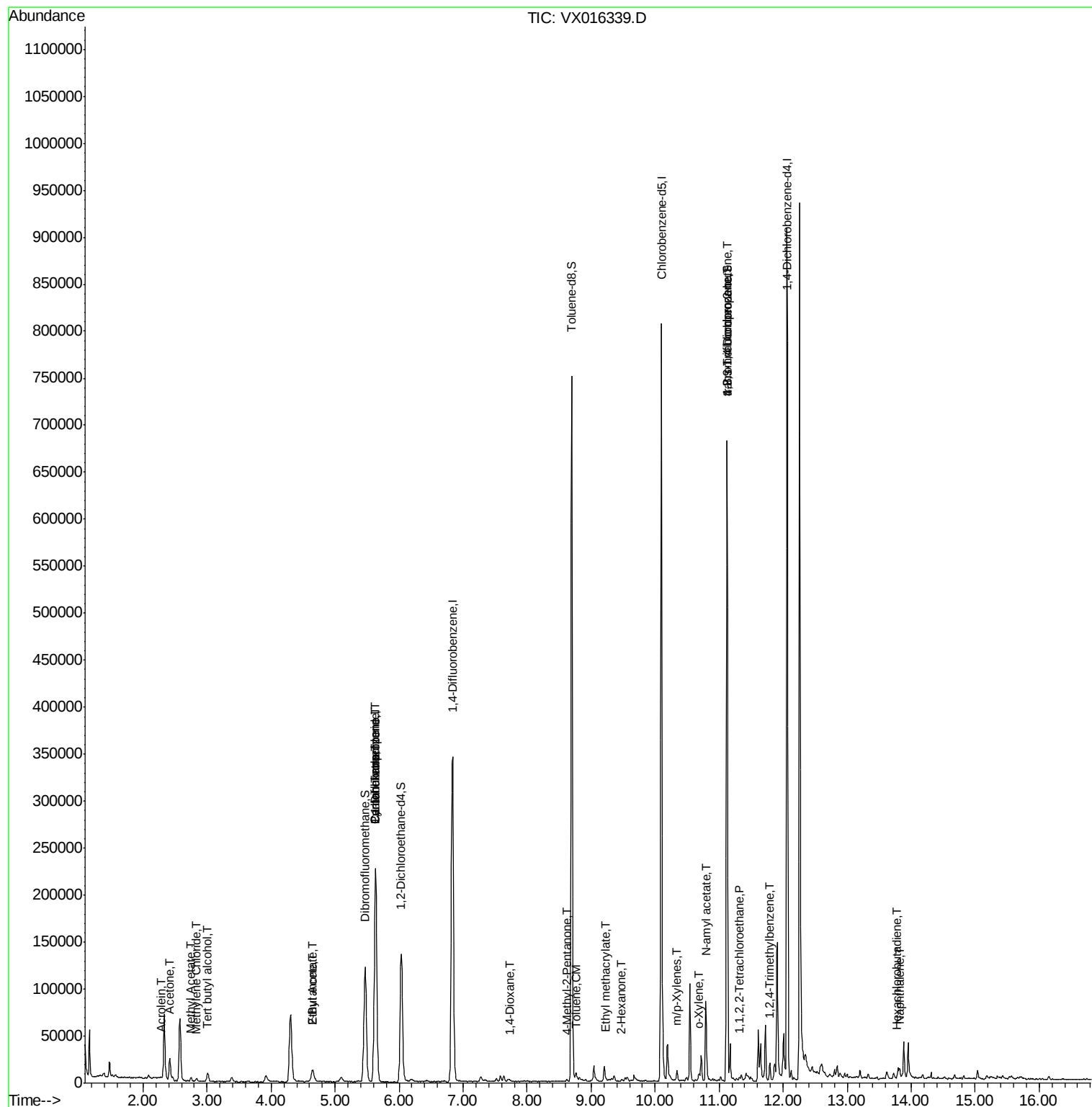
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	11314	14.996	ug/l	97
13) Acrolein	2.28	56	909	1.925	ug/l	99
16) Acetone	2.42	43	23294	17.498	ug/l	99
18) Methyl Acetate	2.75	43	4695	1.434	ug/l	97
20) Methylene Chloride	2.84	84	1522	0.555	ug/l #	86
25) 2-Butanone	4.64	43	9596	4.473	ug/l	99
31) Cyclohexane	5.64	56	4081	0.985	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	16082	4.376	ug/l #	49
37) Ethyl Acetate	4.64	43	9652	2.266	ug/l #	71
38) Carbon Tetrachloride	5.64	117	21500	5.756	ug/l #	14
49) 1,4-Dioxane	7.72	88	928	12.016	ug/l #	68
51) 4-Methyl-2-Pentanone	8.62	43	1446	0.348	ug/l #	85
52) Toluene	8.77	92	2768	0.413	ug/l	96
56) Ethyl methacrylate	9.23	69	1039	0.241	ug/l #	25
59) 2-Hexanone	9.48	43	989	0.303	ug/l	69
68) m/p-Xylenes	10.34	106	2615	0.512	ug/l	97
69) o-Xylene	10.68	106	1370	0.279	ug/l	93
74) N-amyl acetate	10.79	43	17358	2.747	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.32	83	404	2.209	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	87355	20.669	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	87355	49.256	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.79	105	6998	0.605	ug/l	91
94) Hexachlorobutadiene	13.77	225	28	0.538	ug/l #	48
95) Naphthalene	13.82	128	4238	0.292	ug/l #	93

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051920\
Data File : VX016339.D
Acq On : 19 May 2020 16:58
Operator : JC/SP
Sample : L2673-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
104

Quant Time: May 20 03:48:55 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 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: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

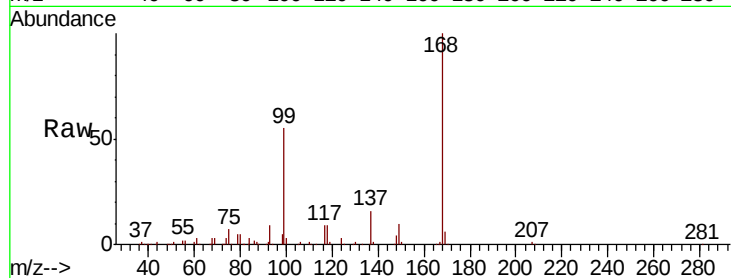
104

Tot Ion:168 Resp: 226727

Ion Ratio Lower Upper

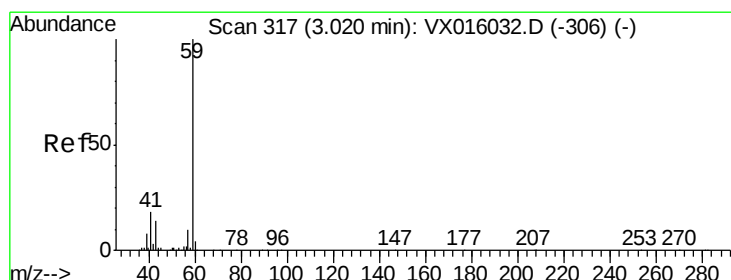
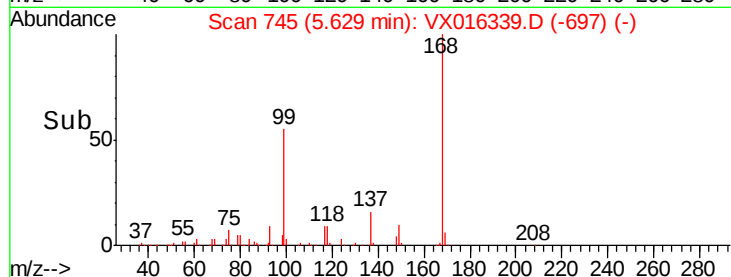
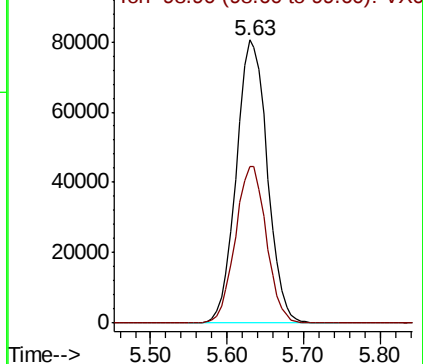
168 100

99 55.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 14.996 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016339.D

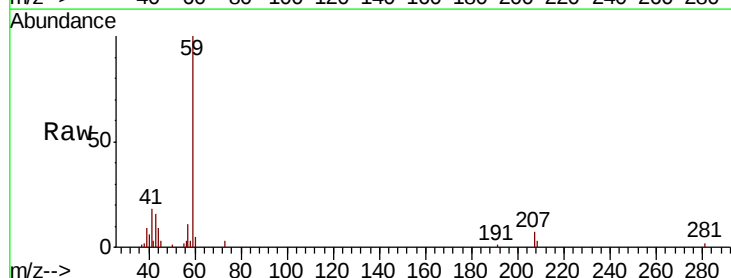
Acq: 19 May 2020 16:58

Tgt Ion: 59 Resp: 11314

Ion Ratio Lower Upper

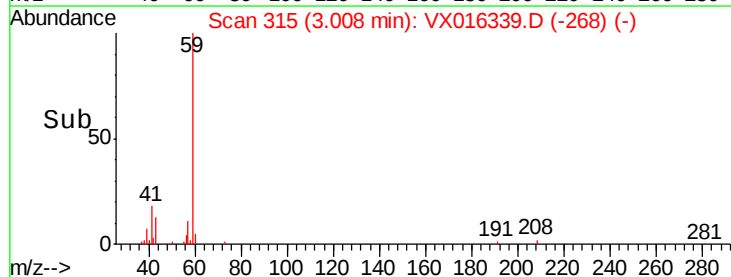
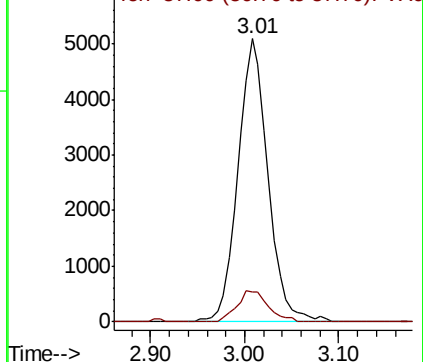
59 100

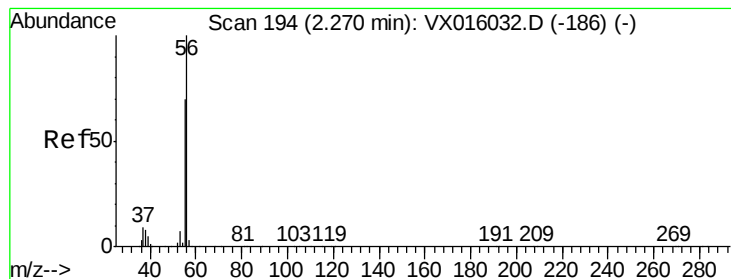
57 11.5 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.925 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

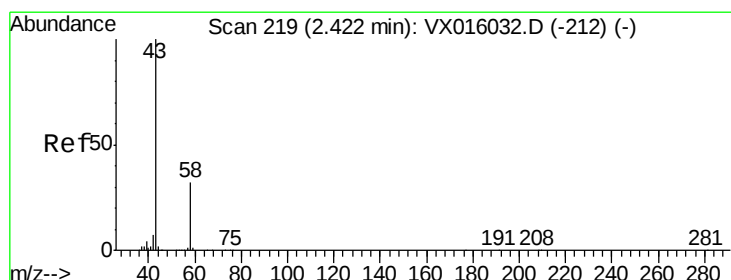
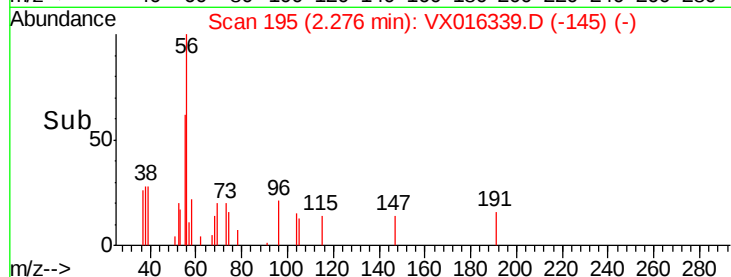
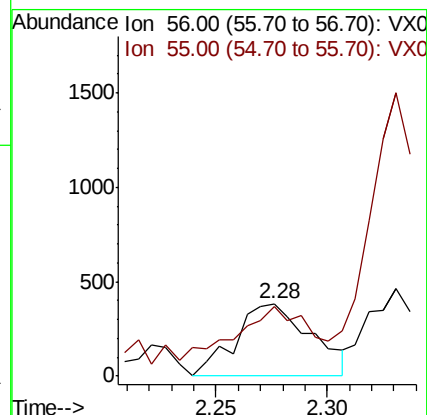
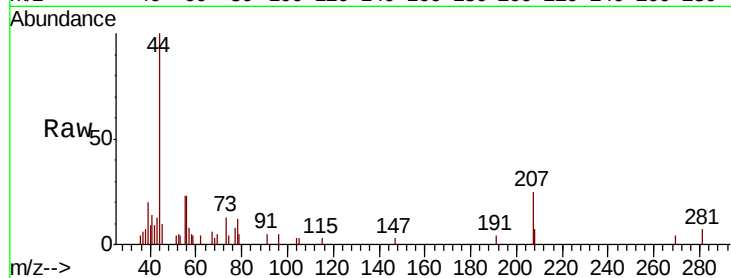
104

Tot Ion: 56 Resp: 909

Ion Ratio Lower Upper

56 100

55 69.7 56.5 84.7



#16

Acetone

Concen: 17.498 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016339.D

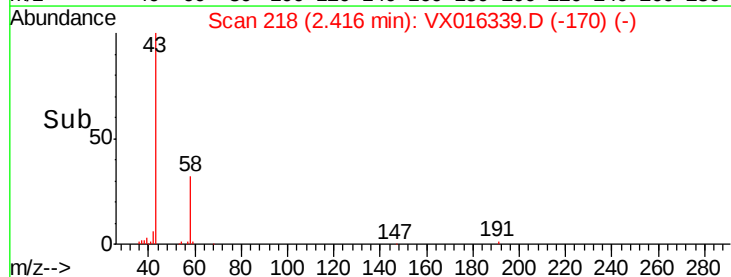
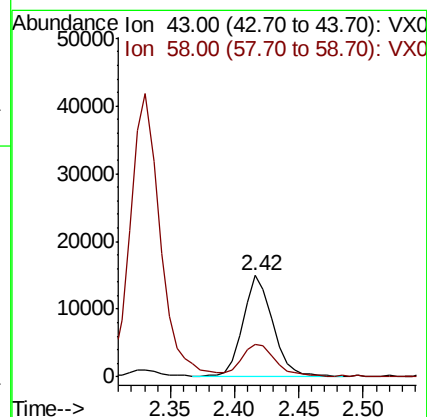
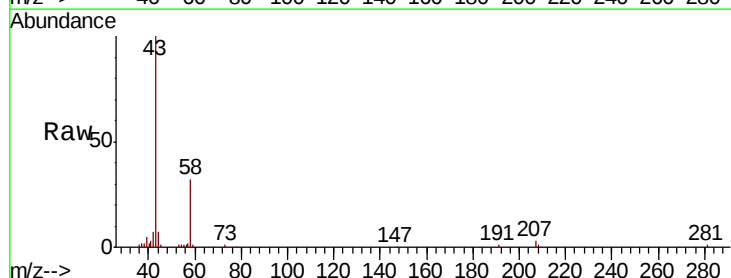
Acq: 19 May 2020 16:58

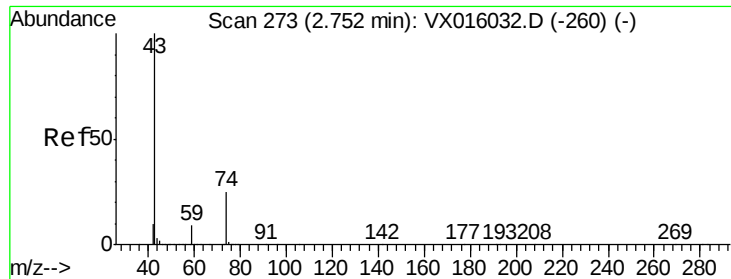
Tgt Ion: 43 Resp: 23294

Ion Ratio Lower Upper

43 100

58 31.3 25.4 38.0

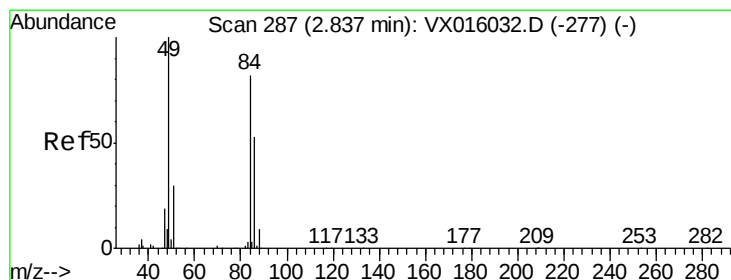
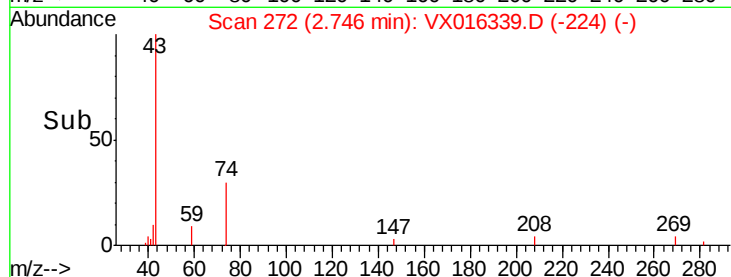
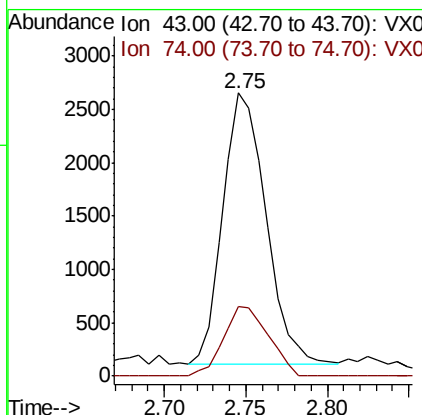
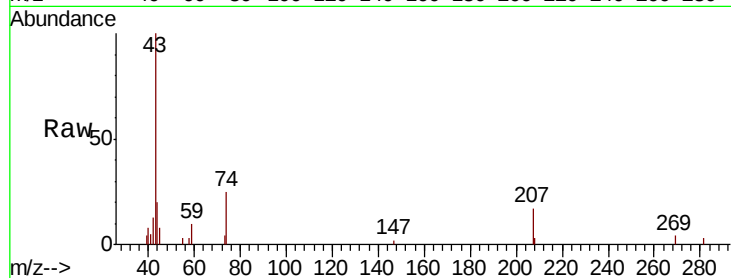




#18
Methvl Acetate
Concen: 1.434 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016339.D
Acq: 19 May 2020 16:58

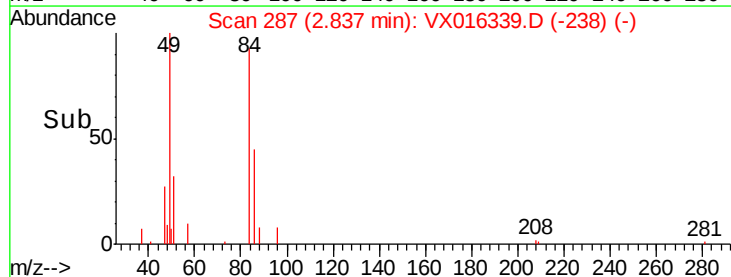
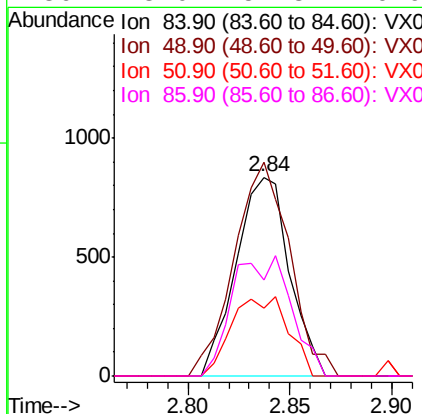
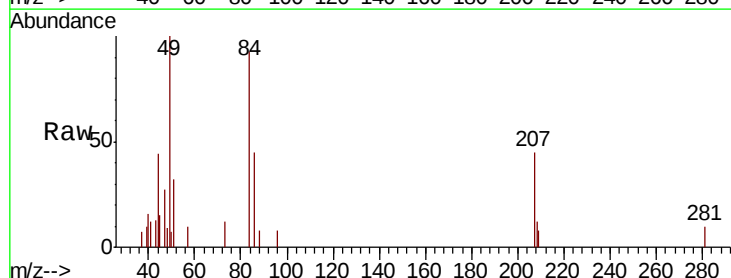
Instrument :
MSVOA_X
ClientSampleId :
104

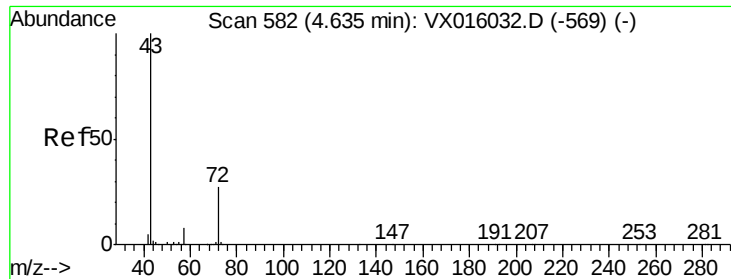
Tot Ion: 43 Resp: 4695
Ion Ratio Lower Upper
43 100
74 26.6 20.2 30.2



#20
Methylene Chloride
Concen: 0.555 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016339.D
Acq: 19 May 2020 16:58

Tgt Ion: 84 Resp: 1522
Ion Ratio Lower Upper
84 100
49 107.3 97.3 145.9
51 34.1 29.3 43.9
86 48.0 51.3 76.9#

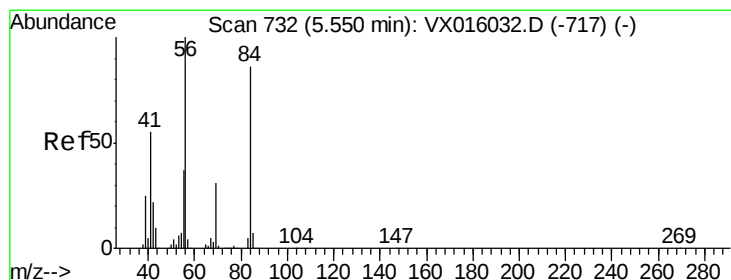
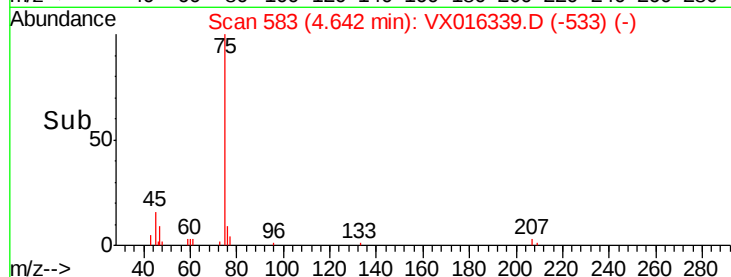
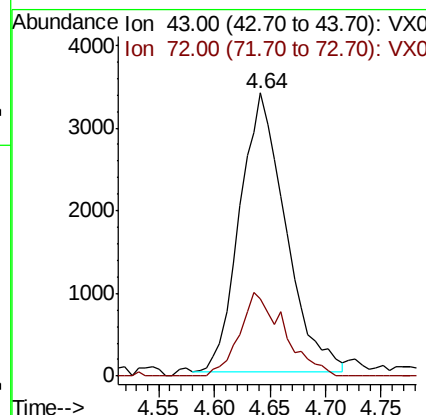
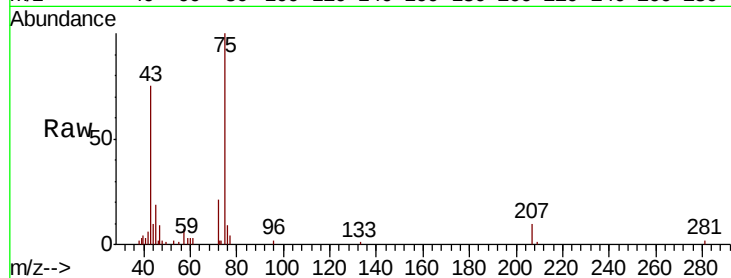




#25
2-Butanone
Concen: 4.473 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016339.D
Acq: 19 May 2020 16:58

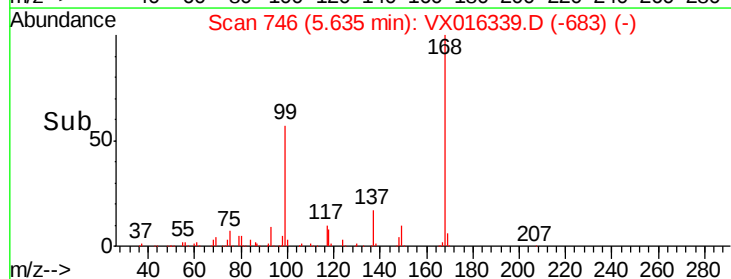
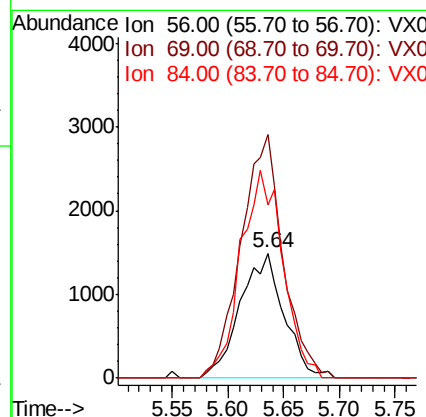
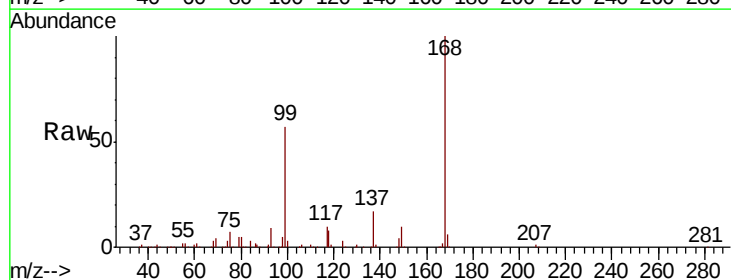
Instrument :
MSVOA_X
ClientSampleId :
104

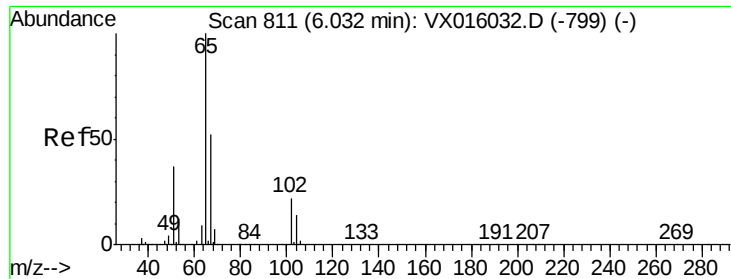
Tot Ion: 43 Resp: 9596
Ion Ratio Lower Upper
43 100
72 27.9 21.8 32.8



#31
Cyclohexane
Concen: 0.985 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016339.D
Acq: 19 May 2020 16:58

Tgt Ion: 56 Resp: 4081
Ion Ratio Lower Upper
56 100
69 194.6 25.0 37.6#
84 138.8 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 43.542 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampled :

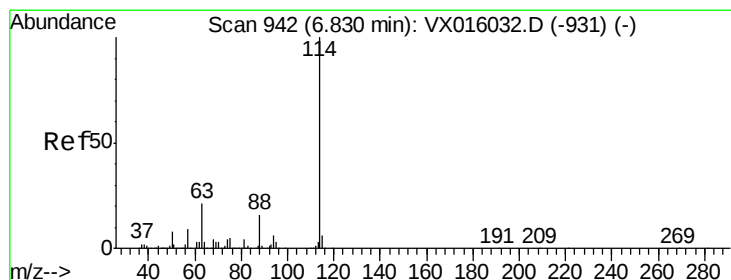
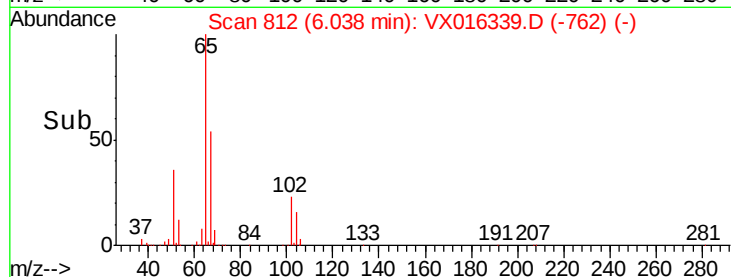
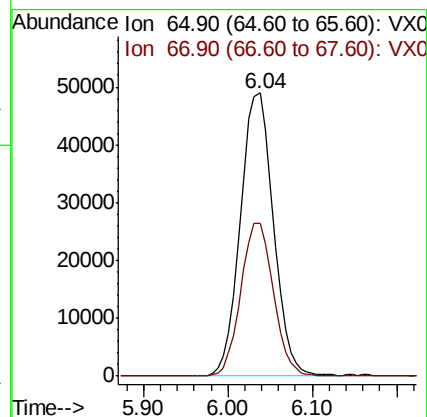
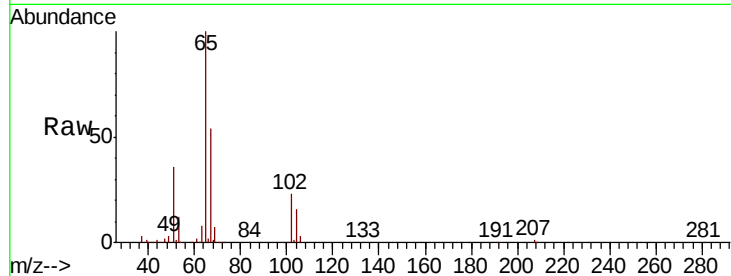
104

Tot Ion: 65 Resp: 129906

Ion Ratio Lower Upper

65 100

67 53.5 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

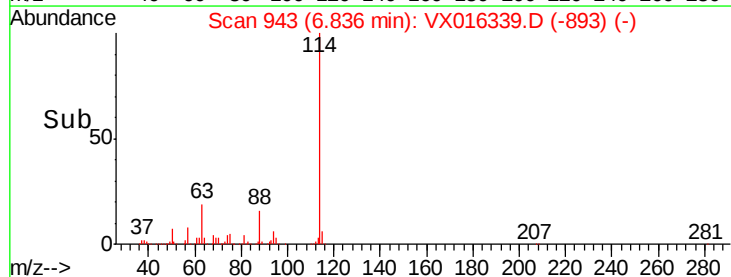
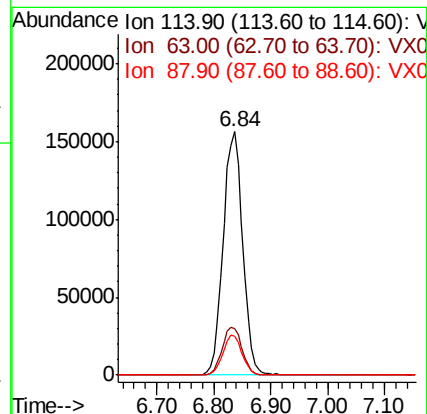
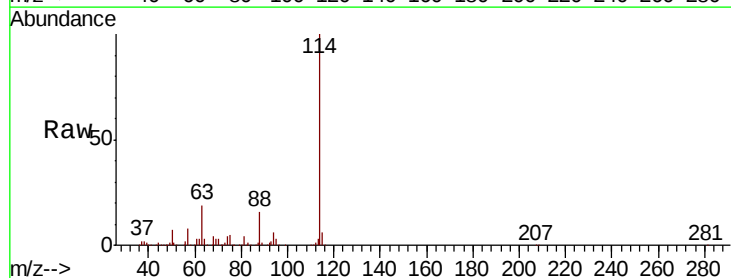
Tgt Ion: 114 Resp: 373310

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.8

88 16.0 0.0 31.4

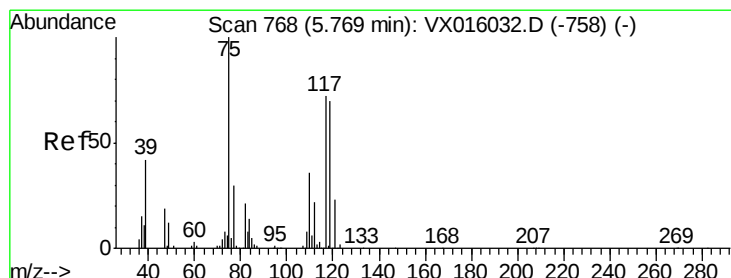
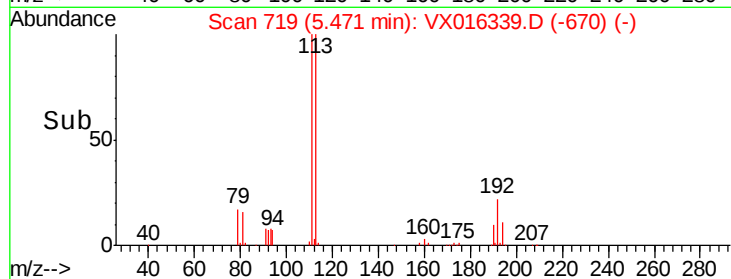
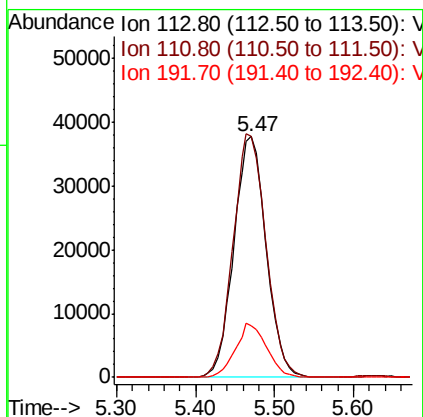
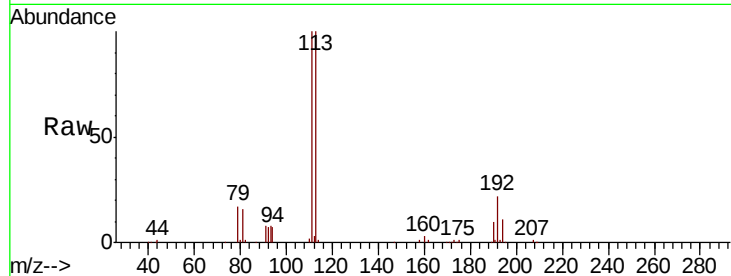




#35
 Dibromofluoromethane
 Concen: 45.484 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX016339.D
 Acq: 19 May 2020 16:58

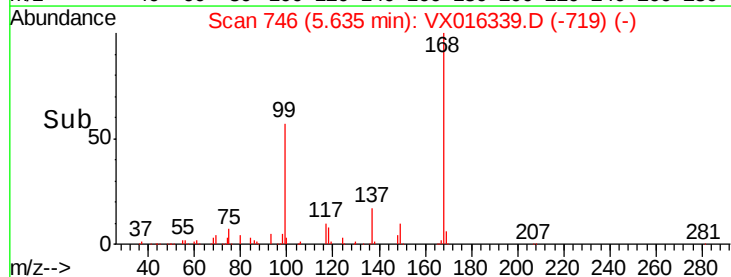
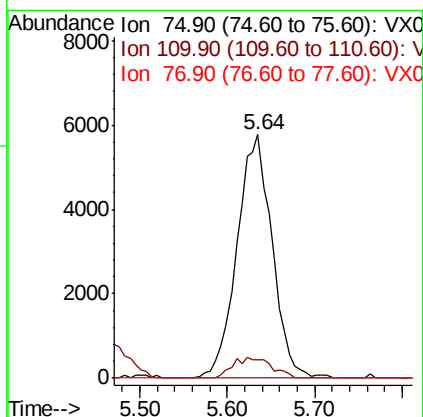
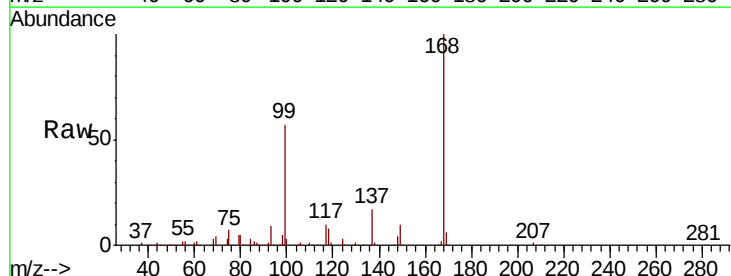
Instrument :
 MSVOA_X
 ClientSampleId :
 104

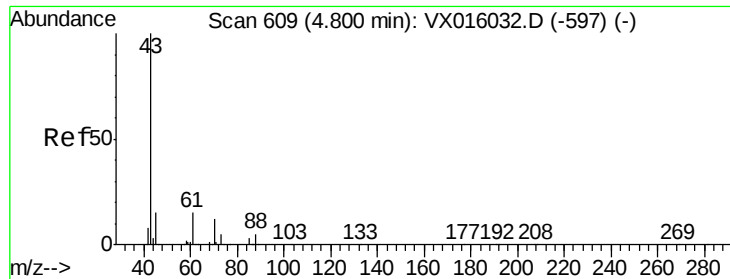
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.6	122.4
192	21.4	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.376 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016339.D
 Acq: 19 May 2020 16:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	0.0	25.0	37.6#





#37

Ethyl Acetate

Concen: 2.266 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

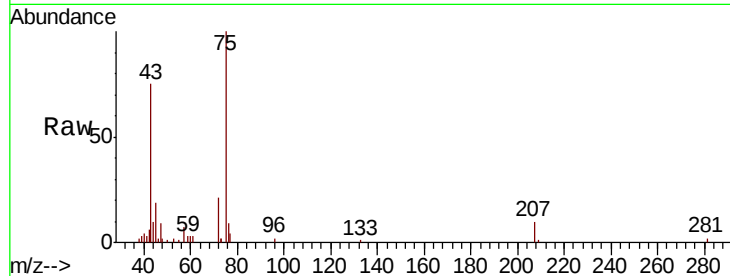
Tot Ion: 43 Resp: 9652

Ion Ratio Lower Upper

43 100

61 3.2 11.7 17.5#

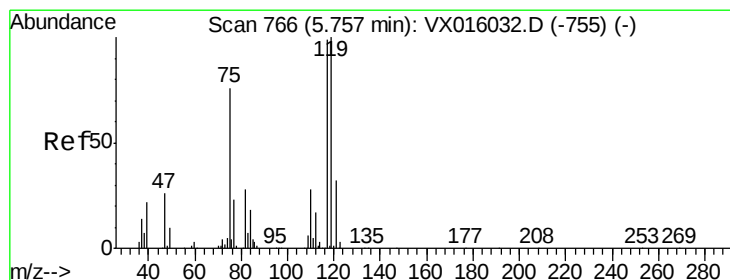
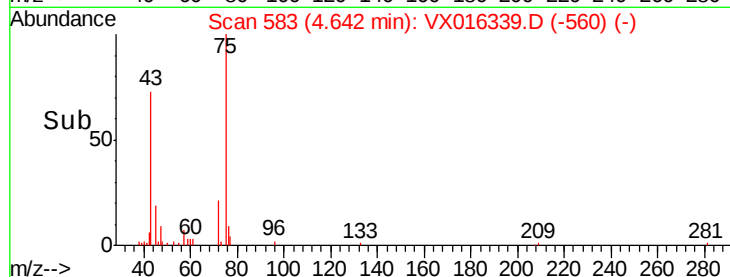
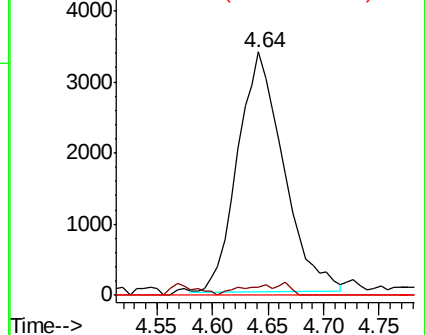
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.756 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

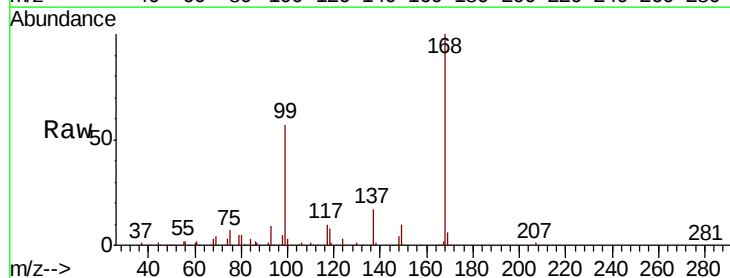
Tgt Ion: 117 Resp: 21500

Ion Ratio Lower Upper

117 100

119 5.1 80.3 120.5#

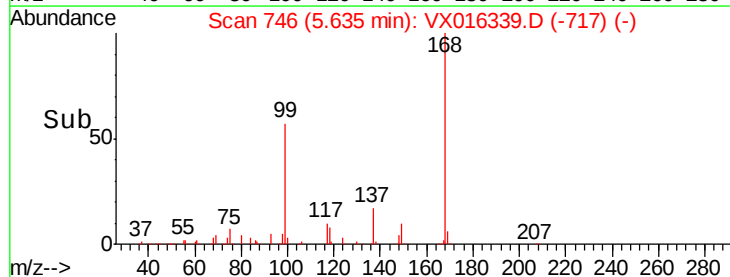
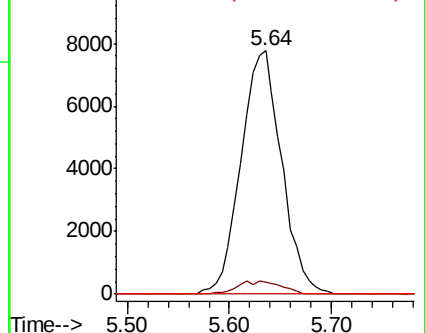
121 0.0 25.7 38.5#

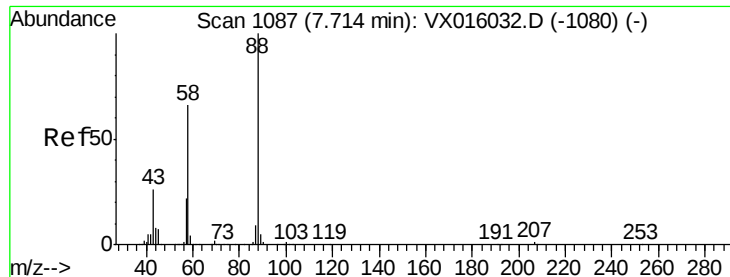


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 12.016 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

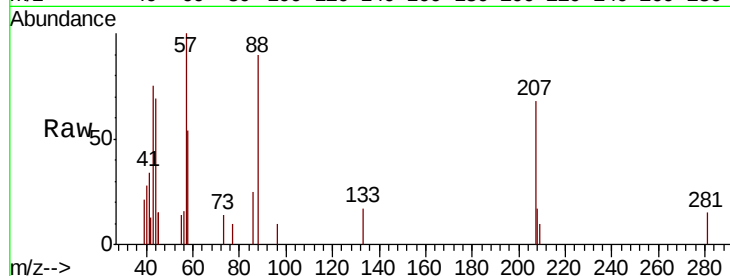
Tot Ion: 88 Resp: 928

Ion Ratio Lower Upper

88 100

43 74.6 25.3 37.9#

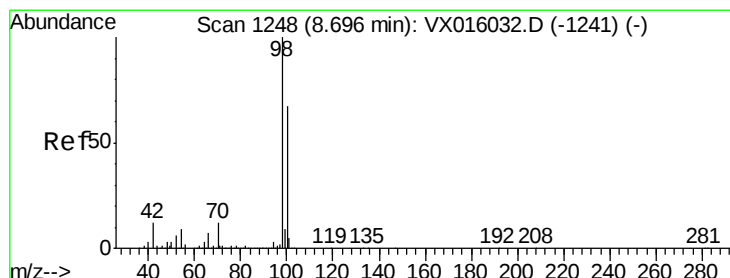
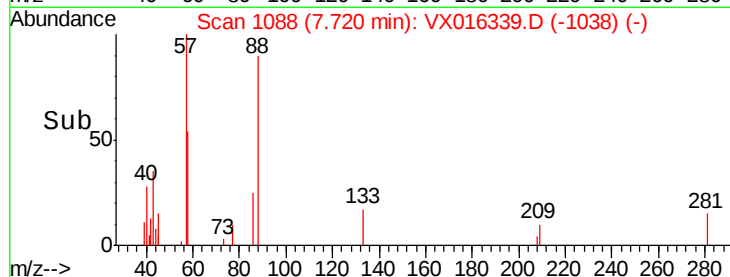
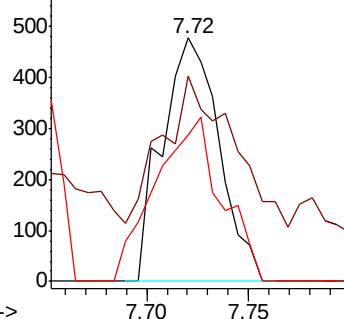
58 78.9 55.9 83.9



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: 50.549 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016339.D

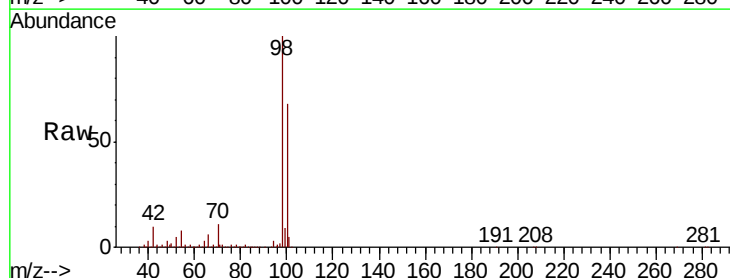
Acq: 19 May 2020 16:58

Tgt Ion: 98 Resp: 460639

Ion Ratio Lower Upper

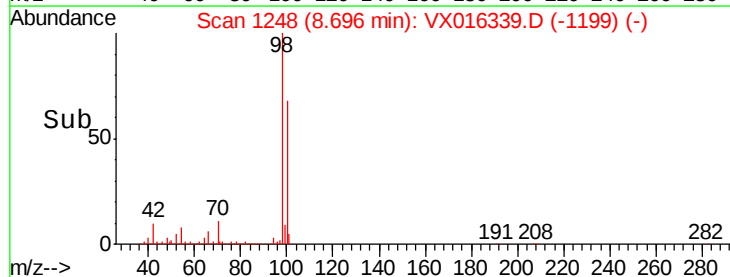
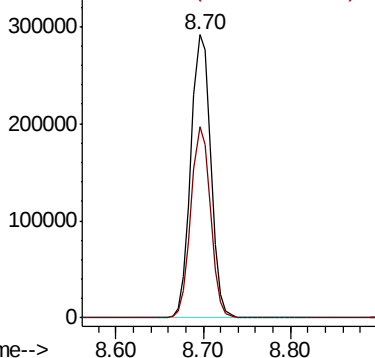
98 100

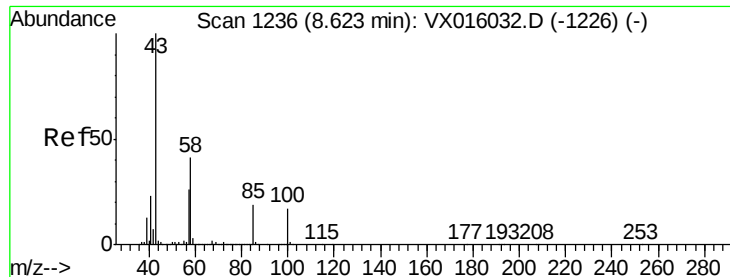
100 66.3 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.348 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

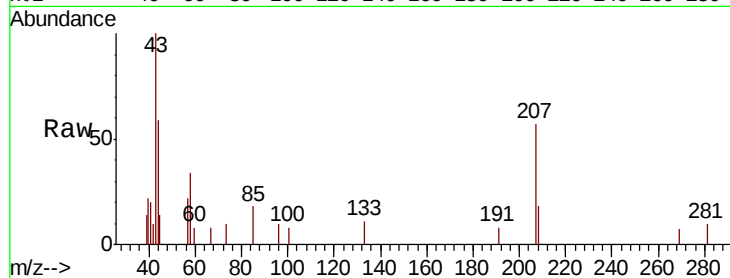
104

Tot Ion: 43 Resp: 1446

Ion Ratio Lower Upper

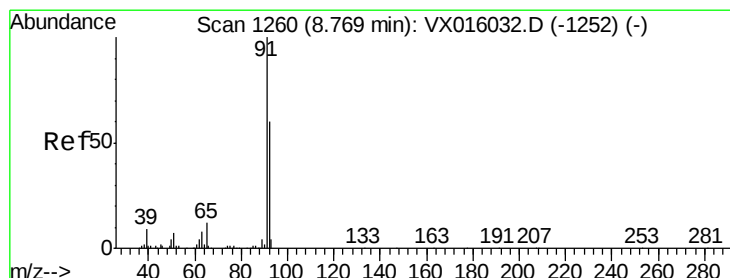
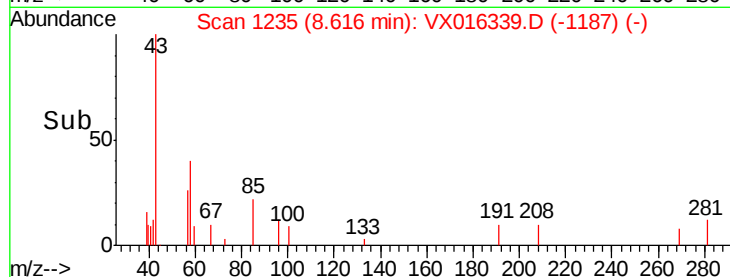
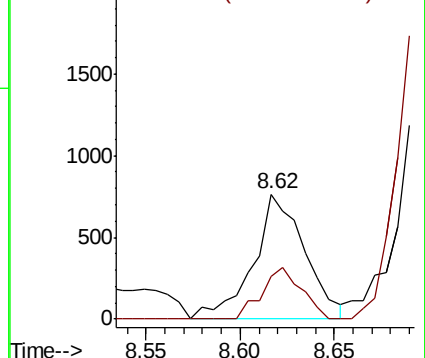
43 100

58 31.6 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 0.413 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VX016339.D

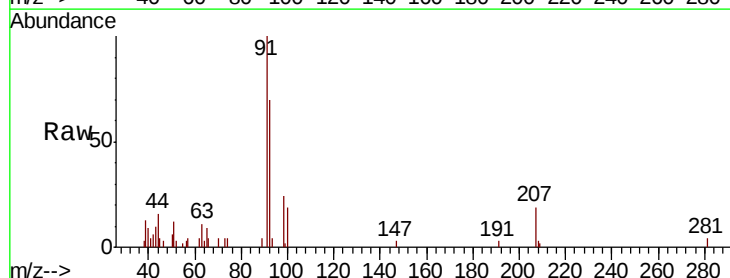
Acq: 19 May 2020 16:58

Tgt Ion: 92 Resp: 2768

Ion Ratio Lower Upper

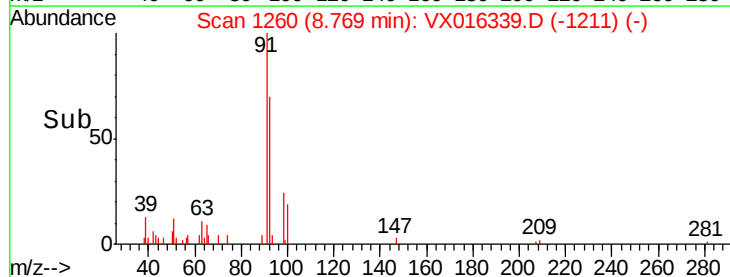
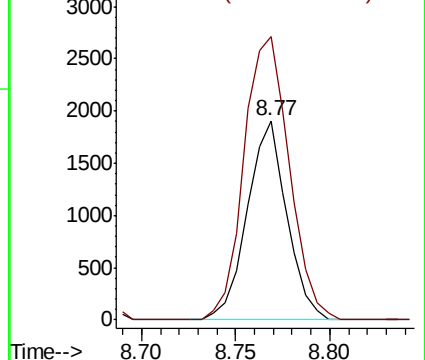
92 100

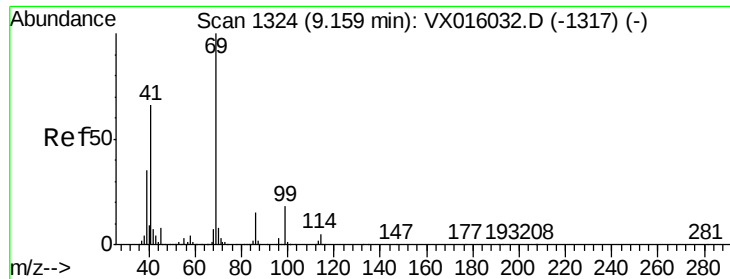
91 163.1 134.5 201.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#56

Ethyl methacrylate

Concen: 0.241 ug/l

RT: 9.23 min Scan# 1336

Delta R.T. 0.07 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :
MSVOA_X
ClientSampleId :
104

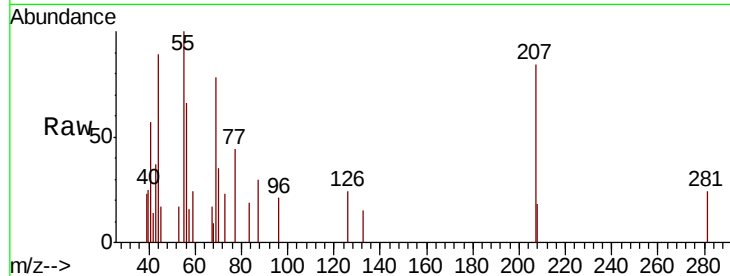
Tot Ion: 69 Resp: 1039

Ion Ratio Lower Upper

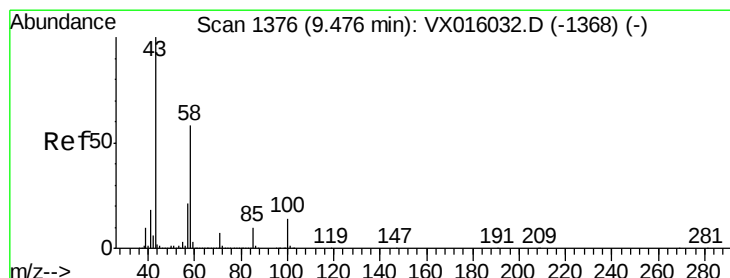
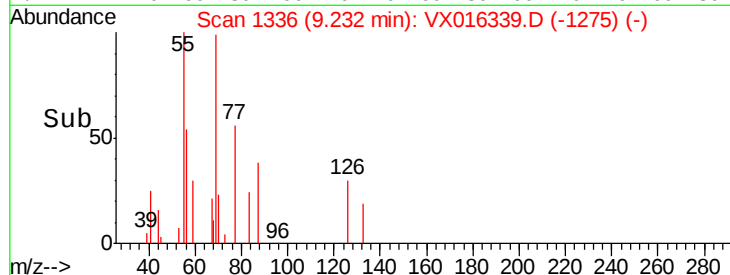
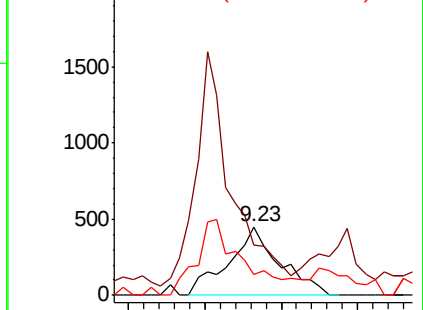
69 100

41 0.0 52.2 78.4#

39 0.0 28.2 42.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 0.303 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VX016339.D

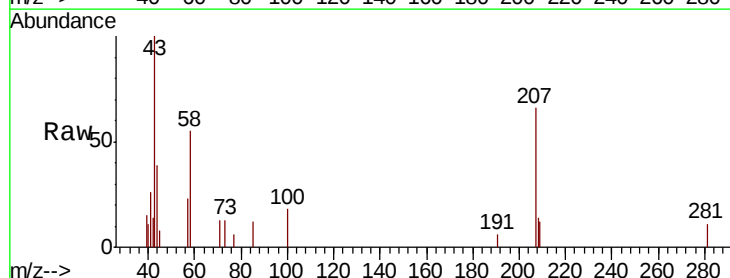
Acq: 19 May 2020 16:58

Tgt Ion: 43 Resp: 989

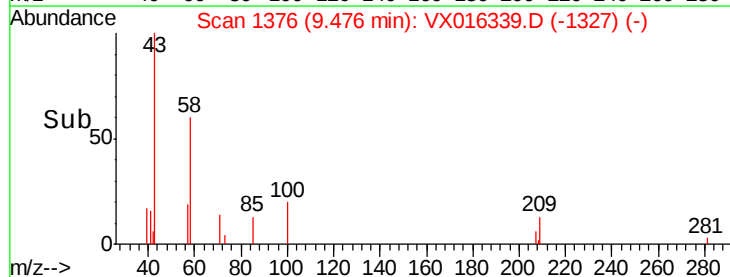
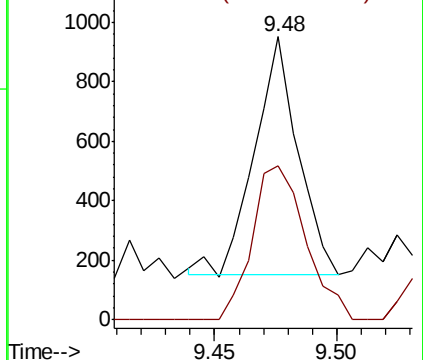
Ion Ratio Lower Upper

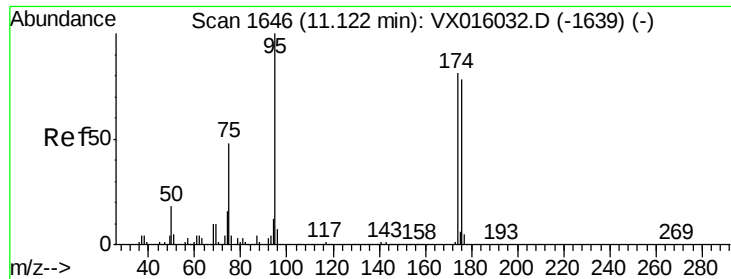
43 100

58 79.9 28.6 85.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.082 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

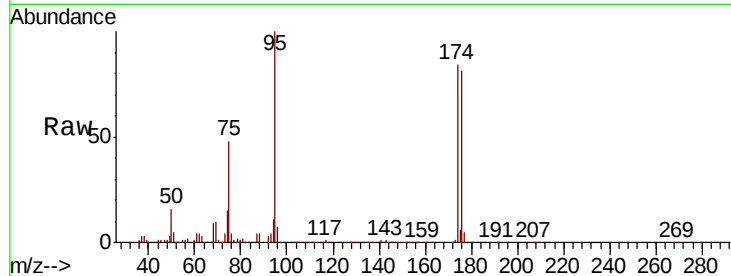
Tot Ion: 95 Resp: 183986

Ion Ratio Lower Upper

95 100

174 80.5 0.0 159.4

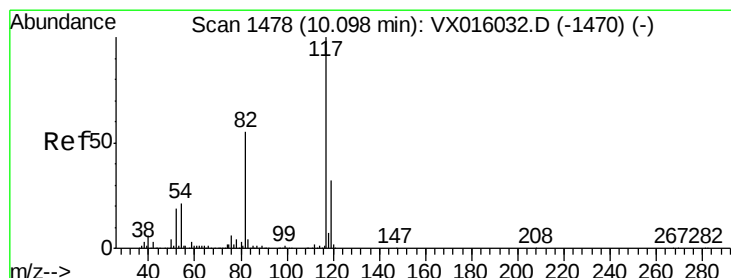
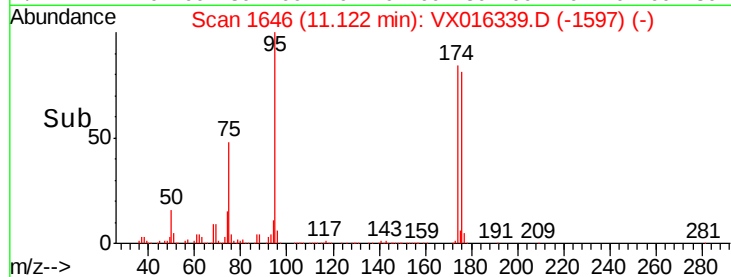
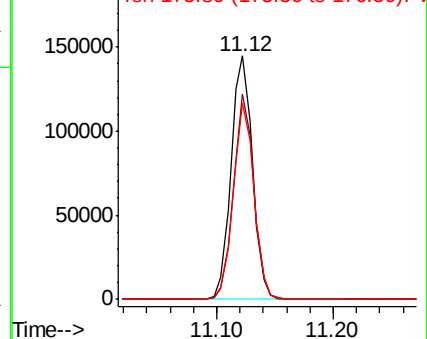
176 78.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016339.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016339.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016339.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

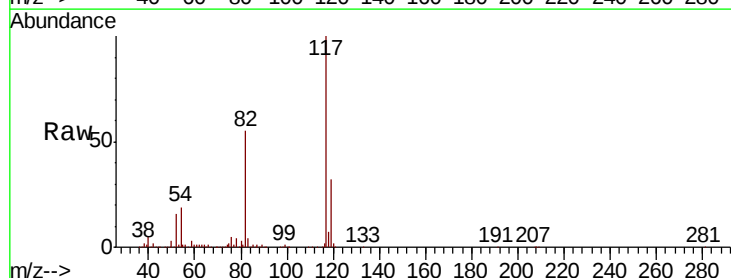
Tgt Ion: 117 Resp: 364945

Ion Ratio Lower Upper

117 100

82 55.4 44.4 66.6

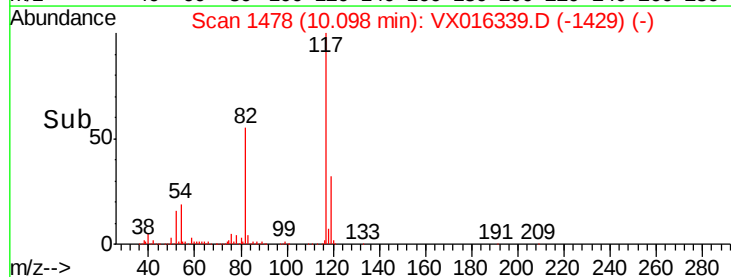
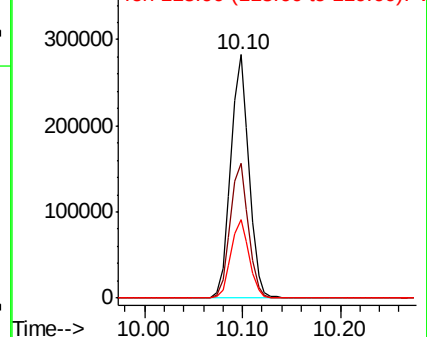
119 32.4 25.5 38.3

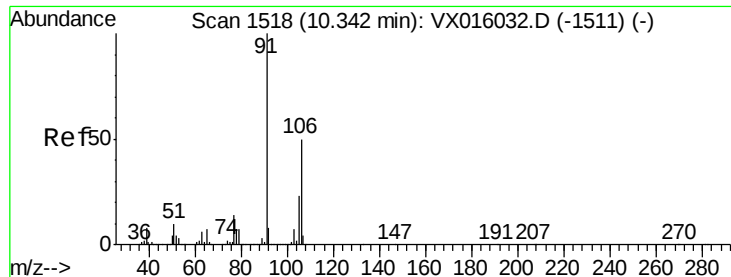


Abundance Ion 116.90 (116.60 to 117.60): VX016339.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016339.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016339.D (-1429) (-)





#68

m/p-Xylenes

Concen: 0.512 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

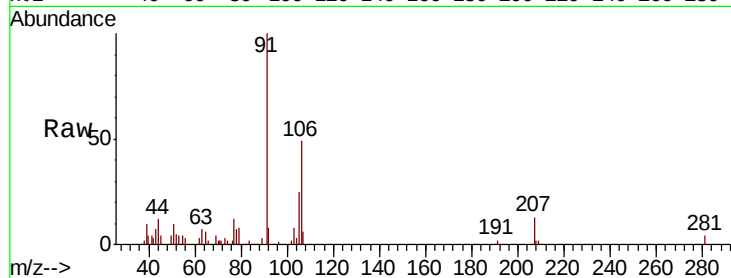
104

Tot Ion:106 Resp: 2615

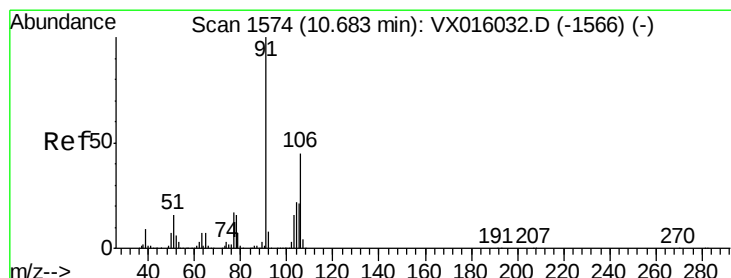
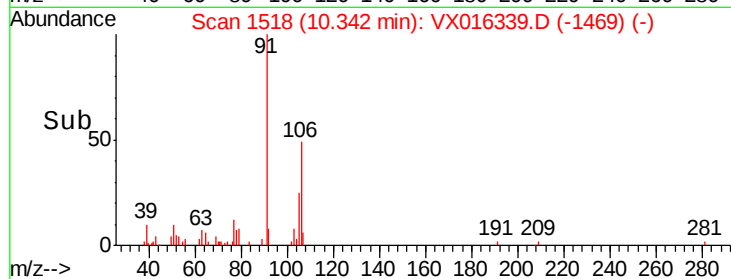
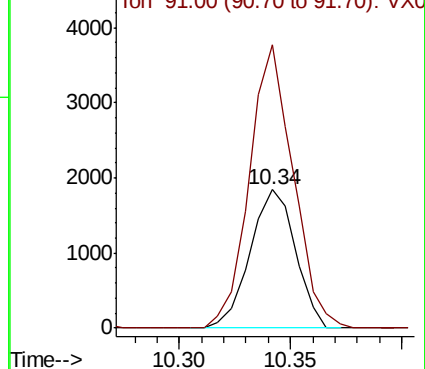
Ion Ratio Lower Upper

106 100

91 197.6 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.279 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX016339.D

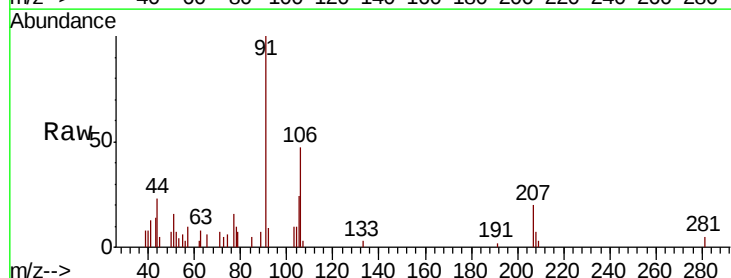
Acq: 19 May 2020 16:58

Tgt Ion:106 Resp: 1370

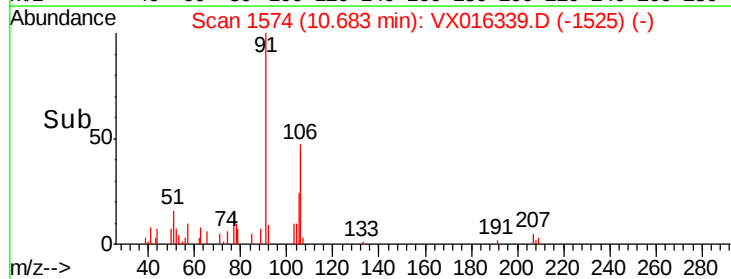
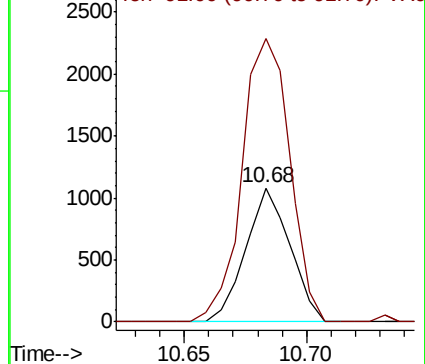
Ion Ratio Lower Upper

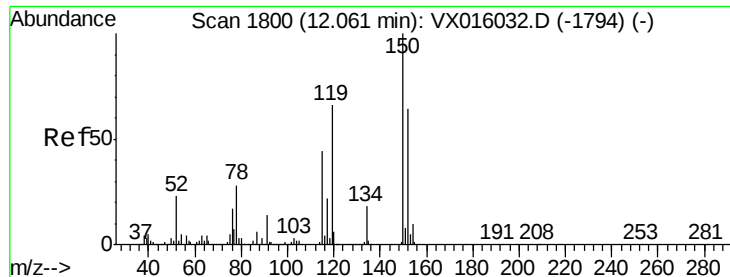
106 100

91 226.8 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

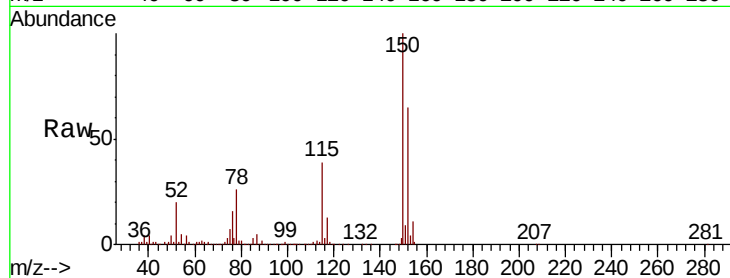
Tot Ion:152 Resp: 186248

Ion Ratio Lower Upper

152 100

115 58.4 41.3 124.1

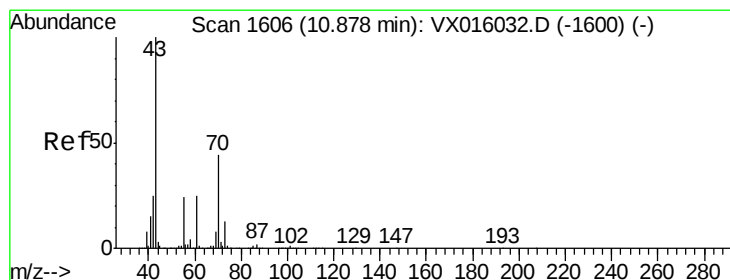
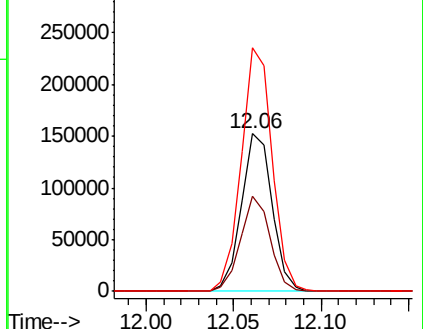
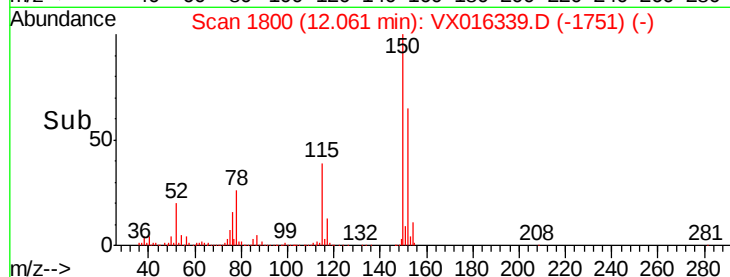
150 155.2 0.0 352.2



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



#74

N-ethyl acetate

Concen: 2.747 ug/l

RT: 10.79 min Scan# 1592

Delta R.T. -0.09 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Tgt Ion: 43 Resp: 17358

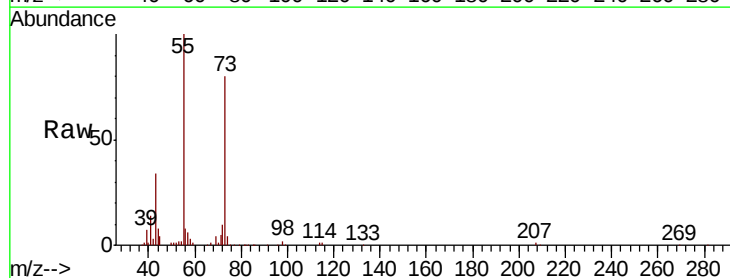
Ion Ratio Lower Upper

43 100

70 4.8 36.5 54.7#

55 218.7 19.7 29.5#

61 0.0 20.9 31.3#

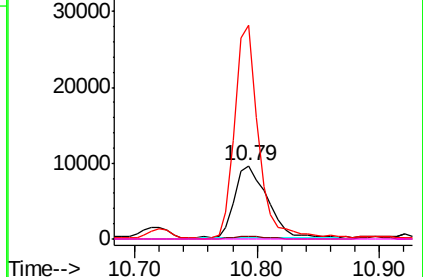
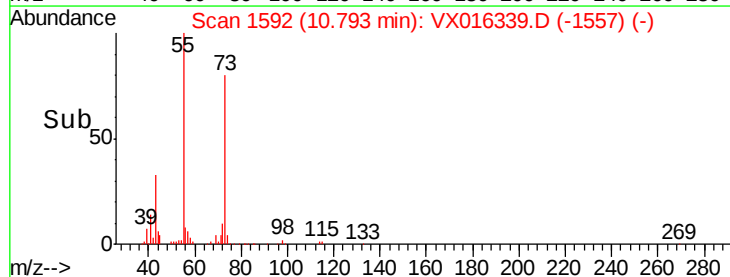


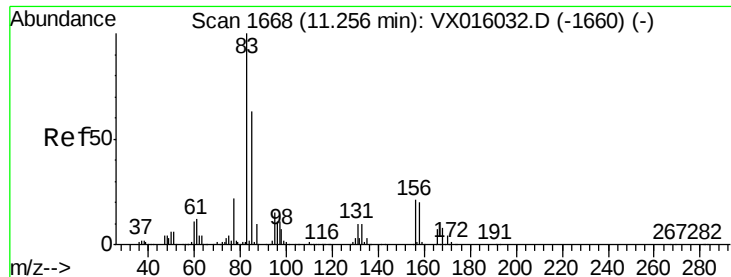
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 2.209 ug/l

RT: 11.32 min Scan# 1678

Delta R.T. 0.06 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

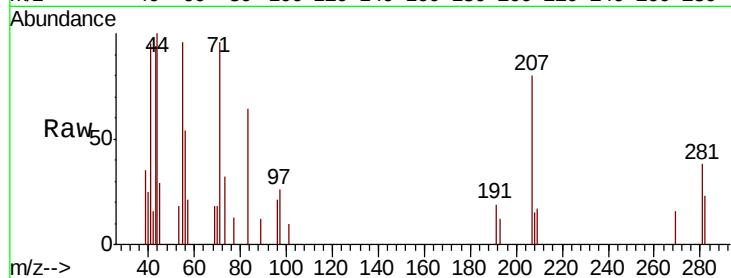
Tot Ion: 83 Resp: 404

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

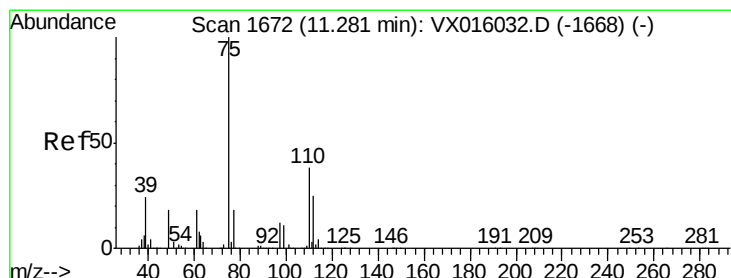
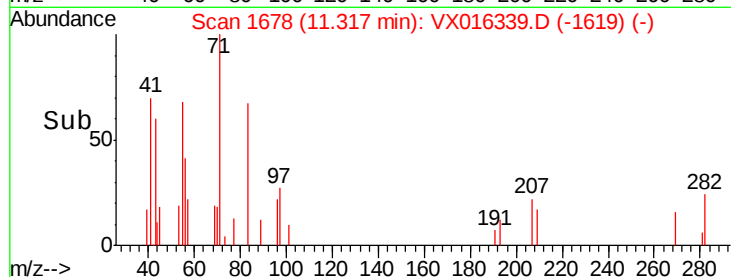
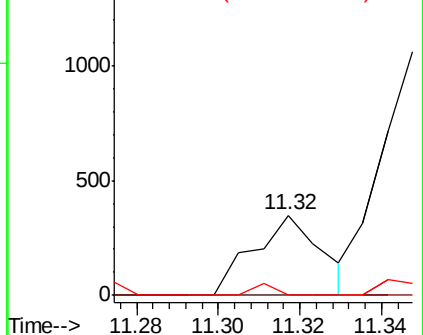
85 0.0 32.0 96.0#



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: 20.669 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016339.D

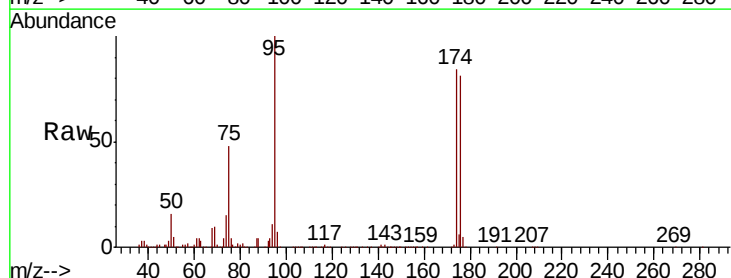
Acq: 19 May 2020 16:58

Tgt Ion: 75 Resp: 87355

Ion Ratio Lower Upper

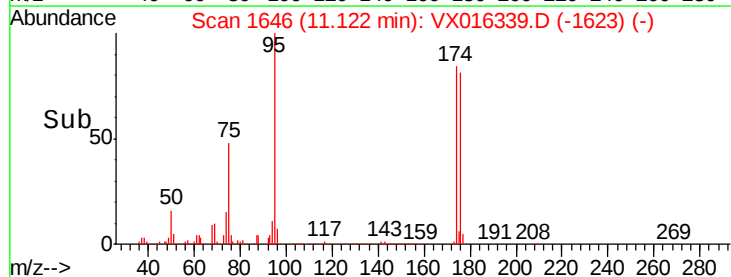
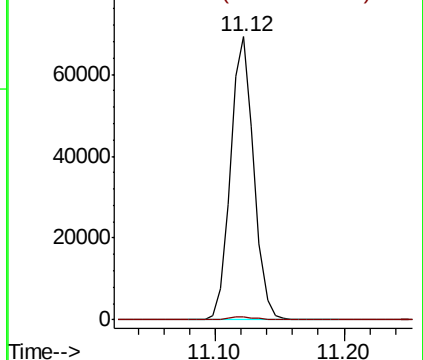
75 100

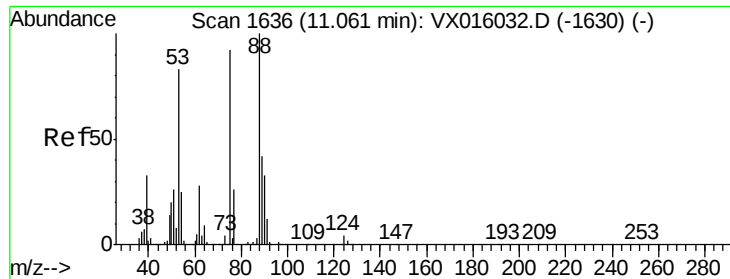
77 1.3 21.2 63.6#



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: 49.256 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

104

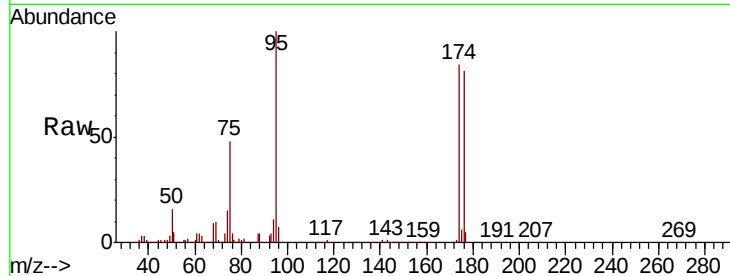
Tot Ion: 75 Resp: 87355

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

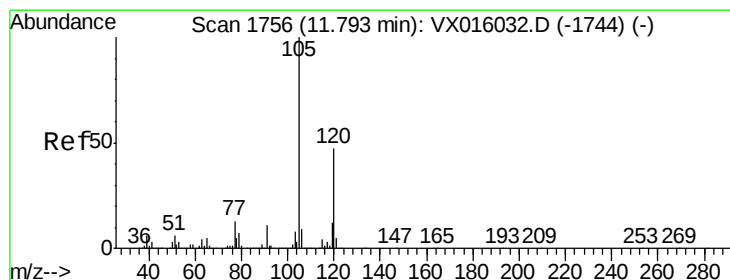
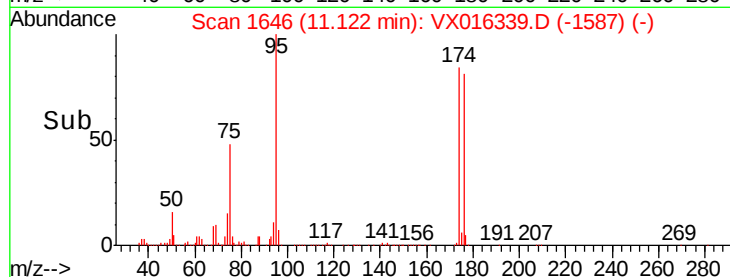
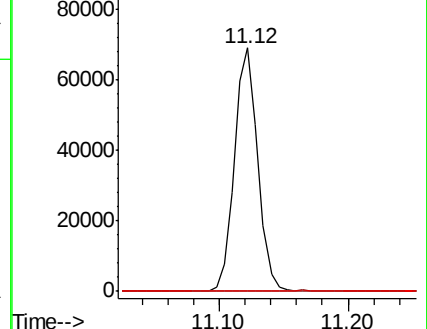
89 0.0 36.7 55.1#



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: 0.605 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX016339.D

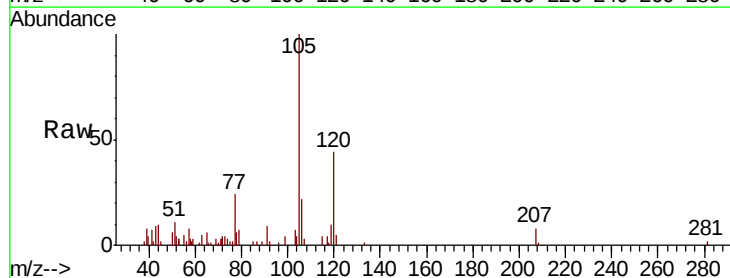
Acq: 19 May 2020 16:58

Tgt Ion:105 Resp: 6998

Ion Ratio Lower Upper

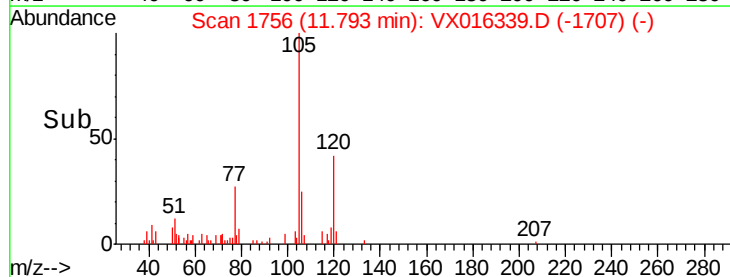
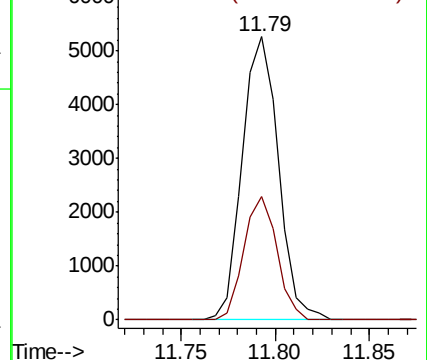
105 100

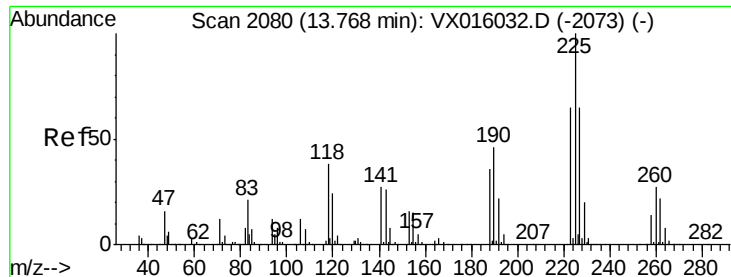
120 39.9 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#94

Hexachlorobutadiene

Concen: 0.538 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

Instrument :

MSVOA_X

ClientSampled :

104

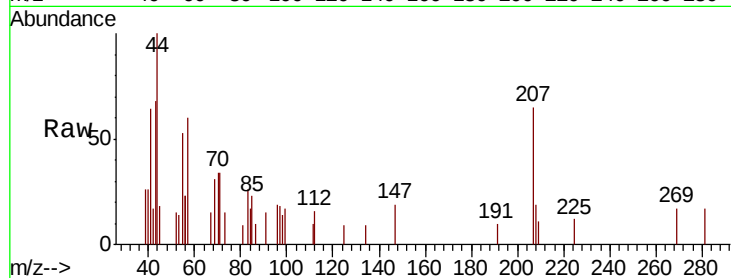
Tot Ion:225 Resp: 28

Ion Ratio Lower Upper

225 100

223 82.1 32.3 96.9

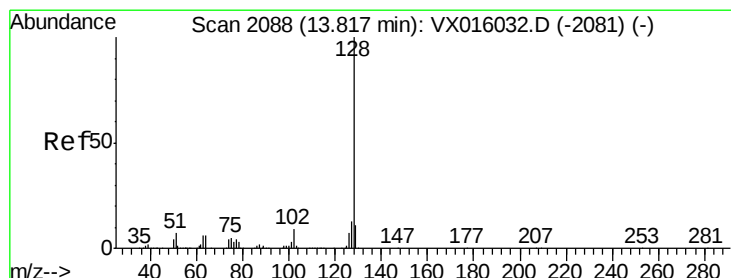
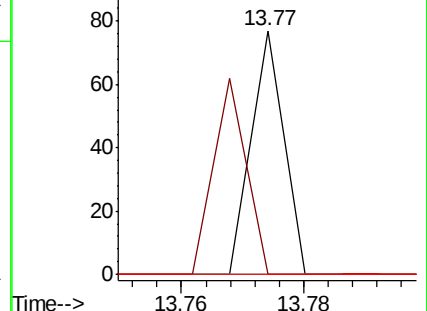
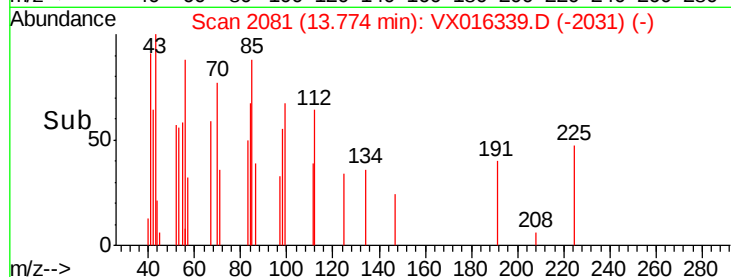
227 0.0 31.8 95.4#



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



#95

Naphthalene

Concen: 0.292 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016339.D

Acq: 19 May 2020 16:58

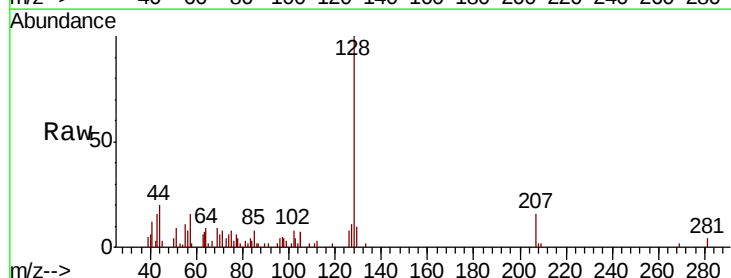
Tgt Ion:128 Resp: 4238

Ion Ratio Lower Upper

128 100

127 17.0 10.2 15.4#

129 11.8 8.7 13.1



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

