

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\
 Data File : VX016288.D
 Acq On : 15 May 2020 18:05
 Operator : JC/SP
 Sample : L2641-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 16 06:46:14 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	5.64	168	231967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	387003	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	381255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	196544	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	140920	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	
35) Dibromofluoromethane	5.47	113	114071	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
50) Toluene-d8	8.70	98	479935	50.80	ug/l	0.00
Spiked Amount			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.12	95	194475	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	

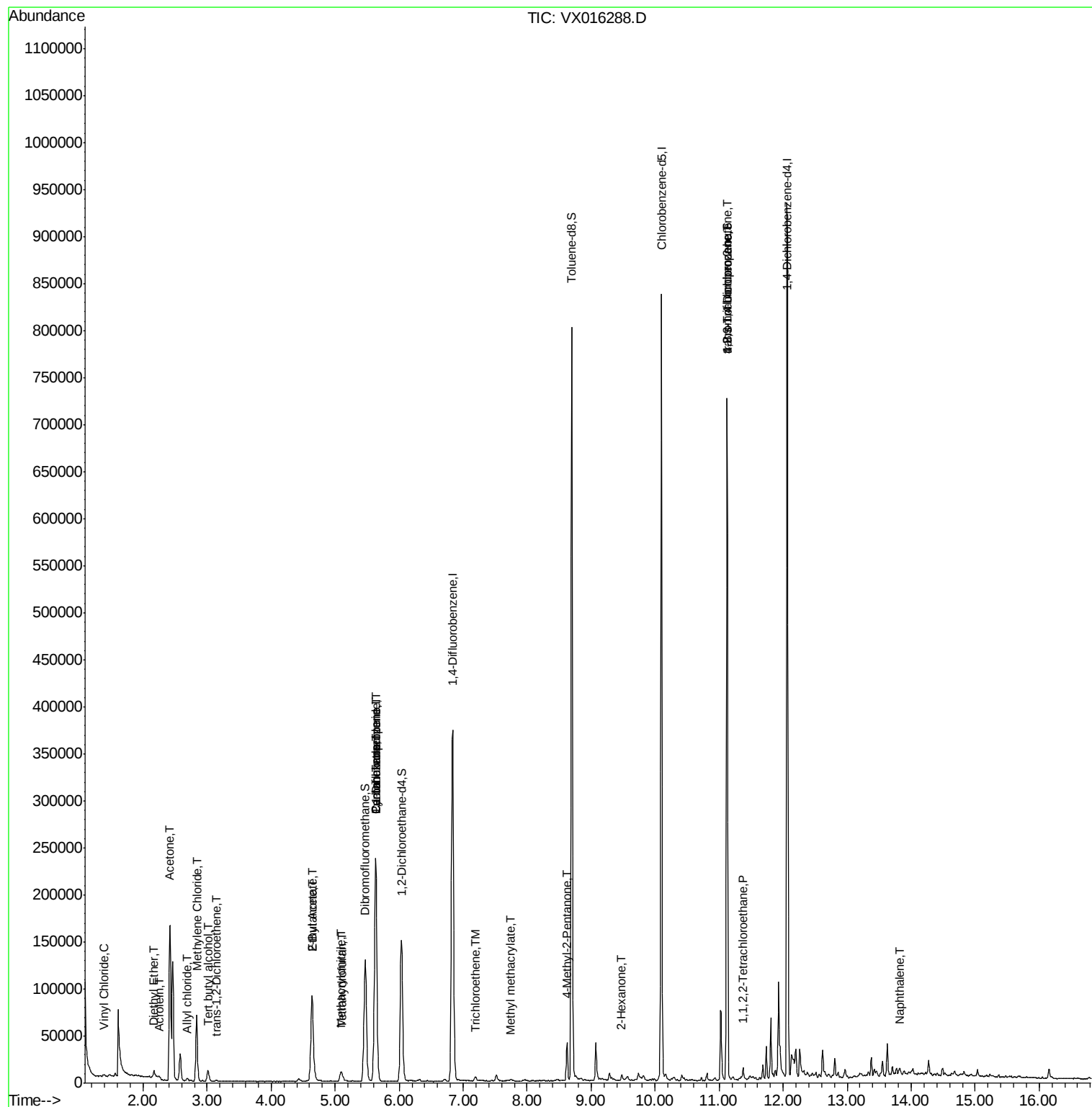
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	843	0.277	ug/l	91
8) Diethyl Ether	2.17	74	2776	1.650	ug/l	84
11) Tert butyl alcohol	3.01	59	14201	18.398	ug/l	99
13) Acrolein	2.26	56	170	0.352	ug/l #	1
14) Allyl chloride	2.69	41	3172	0.717	ug/l #	55
16) Acetone	2.42	43	176530	129.613	ug/l	95
20) Methylene Chloride	2.84	84	32791	11.679	ug/l	97
21) trans-1,2-Dichloroethene	3.14	96	763	0.284	ug/l #	56
25) 2-Butanone	4.64	43	158184	72.076	ug/l	98
29) Tetrahydrofuran	5.10	42	841	0.578	ug/l #	51
31) Cyclohexane	5.64	56	4189	0.988	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17588	4.617	ug/l #	49
37) Ethyl Acetate	4.64	43	158328	35.859	ug/l #	67
38) Carbon Tetrachloride	5.63	117	22465	5.802	ug/l #	14
41) Methacrylonitrile	5.09	41	3053	1.280	ug/l #	44
44) Trichloroethene	7.20	130	1689	0.427	ug/l	96
48) Methyl methacrylate	7.74	41	1006	0.301	ug/l #	33
51) 4-Methyl-2-Pentanone	8.62	43	22150	5.138	ug/l	97
59) 2-Hexanone	9.48	43	2625	0.775	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.38	83	162	2.110	ug/l	73
76) 1,2,3-Trichloropropane	11.12	75	93403	20.942	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	93403	49.907	ug/l #	13
95) Naphthalene	13.82	128	3292	0.215	ug/l #	94

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

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QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

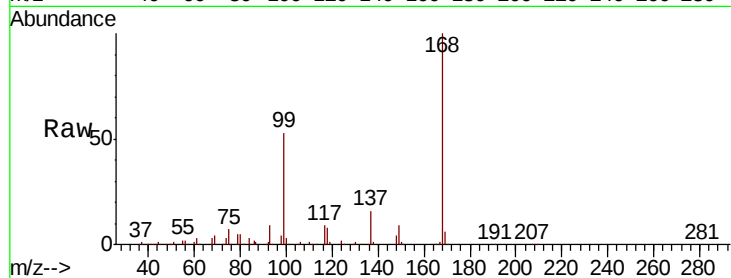
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 231967

Ion Ratio Lower Upper

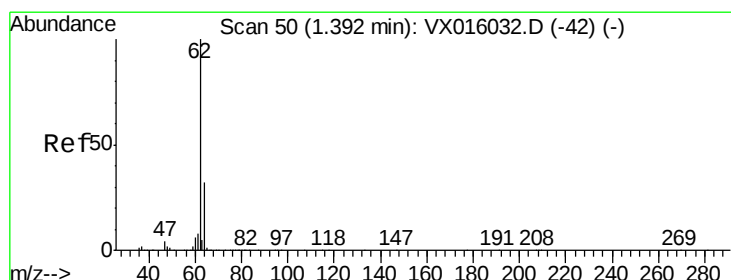
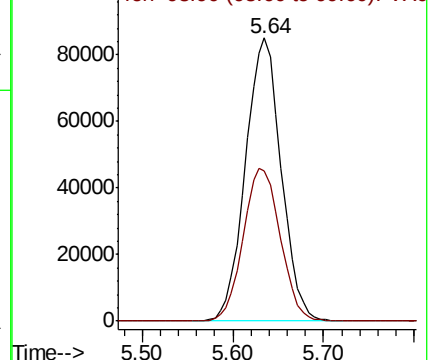
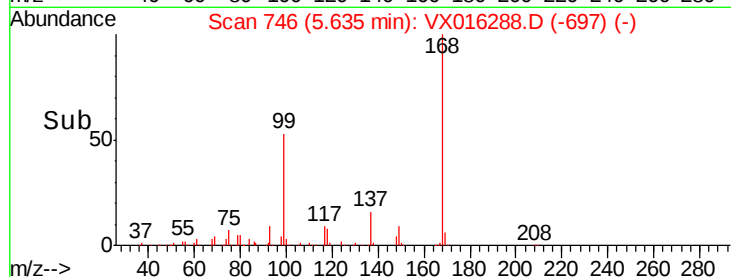
168 100

99 53.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.277 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016288.D

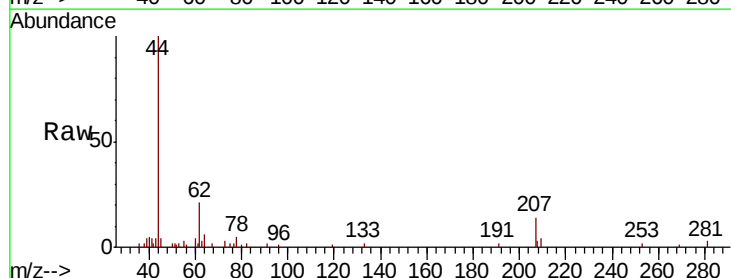
Acq: 15 May 2020 18:05

Tgt Ion: 62 Resp: 843

Ion Ratio Lower Upper

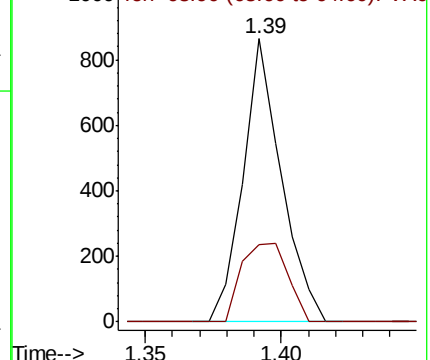
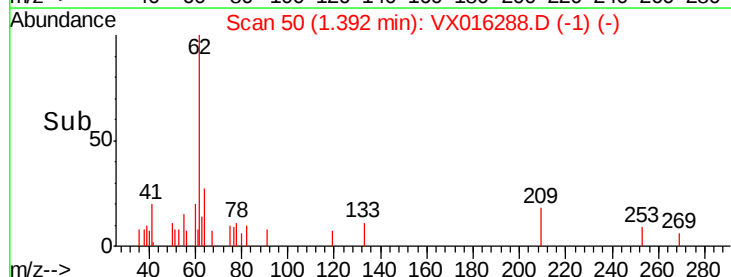
62 100

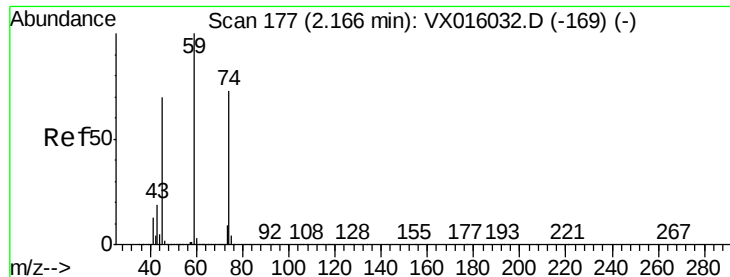
64 27.3 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 1.650 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

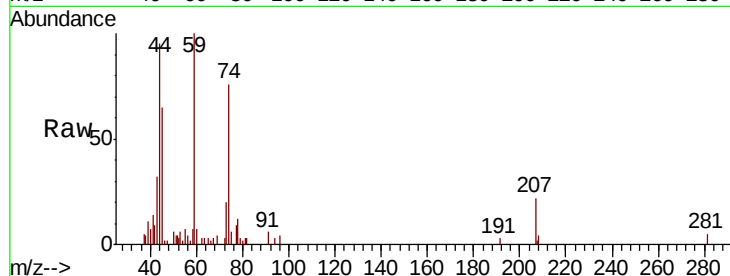
ClientSampleId :

Tot Ion: 74 Resp: 2776

Ion Ratio Lower Upper

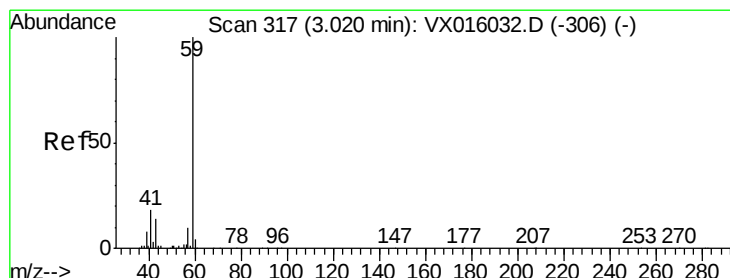
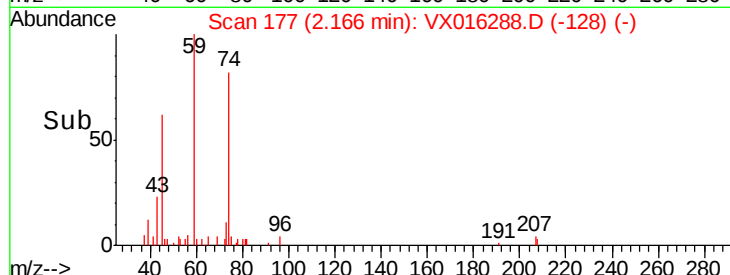
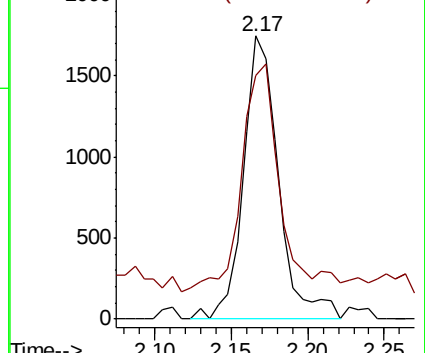
74 100

45 79.6 47.3 142.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 18.398 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016288.D

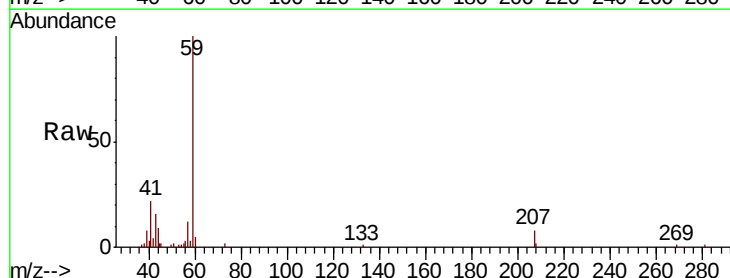
Acq: 15 May 2020 18:05

Tgt Ion: 59 Resp: 14201

Ion Ratio Lower Upper

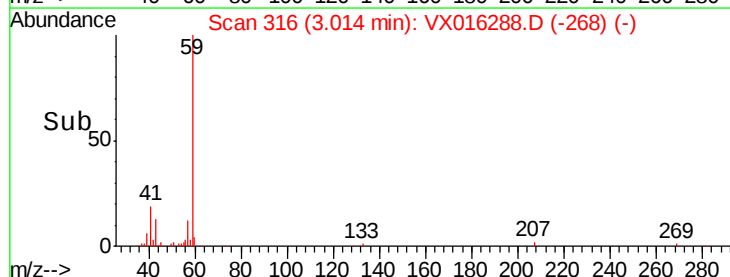
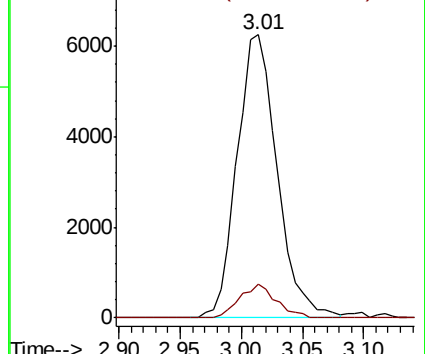
59 100

57 10.8 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: 0.352 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

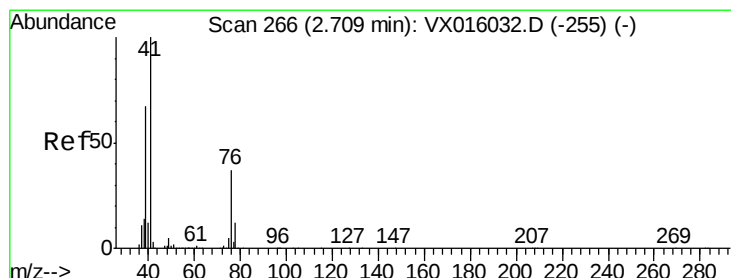
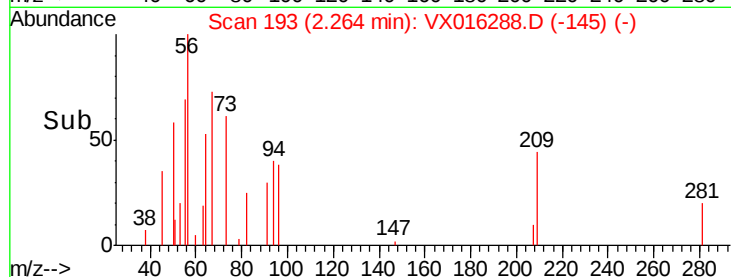
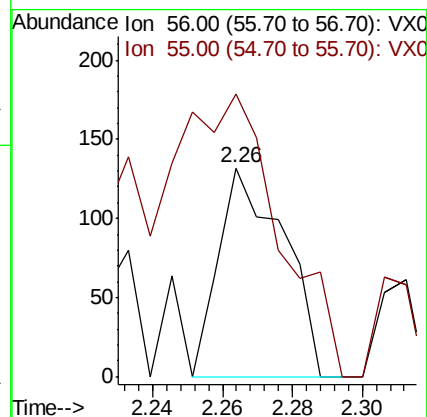
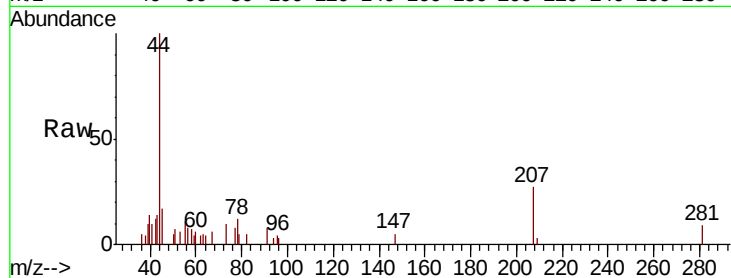
ClientSampleId :

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 214.1 56.5 84.7#



#14

Allyl chloride

Concen: 0.717 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.02 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

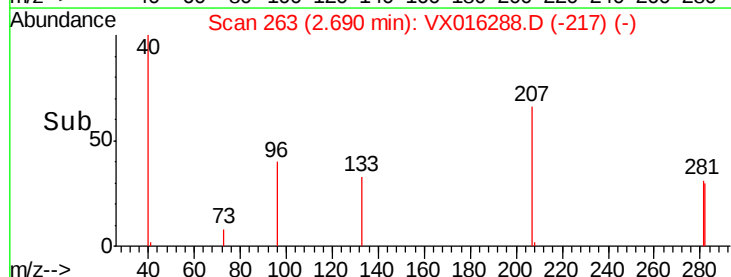
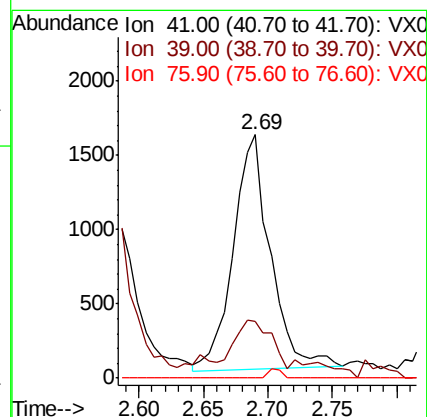
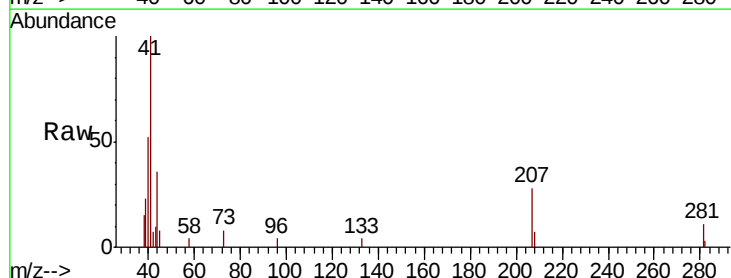
Tgt Ion: 41 Resp: 3172

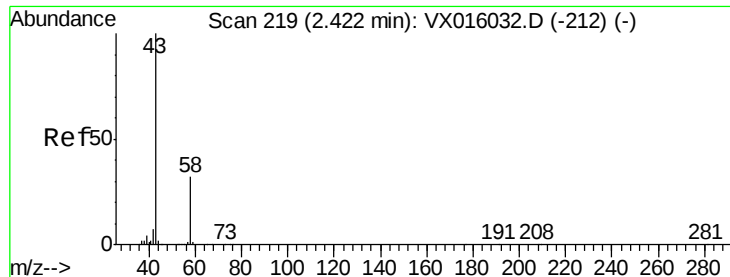
Ion Ratio Lower Upper

41 100

39 34.1 50.5 75.7#

76 0.0 26.6 40.0#

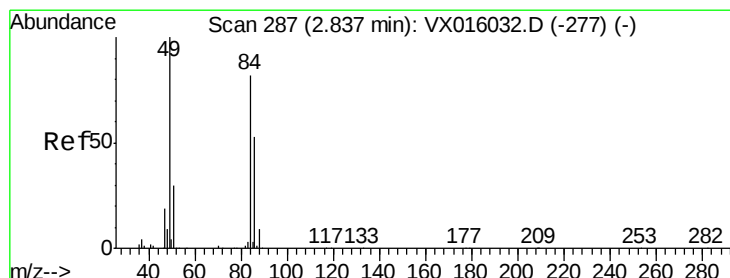
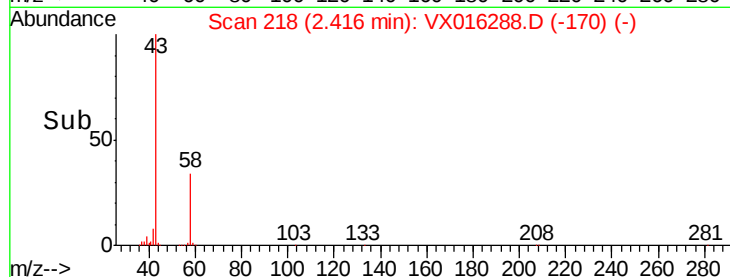
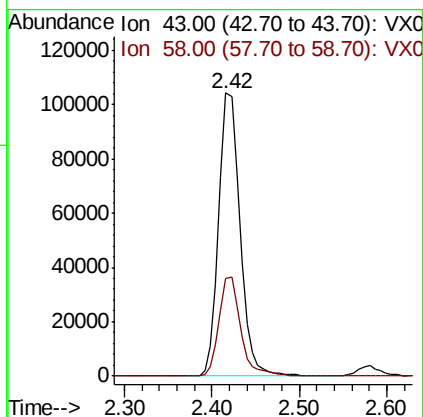
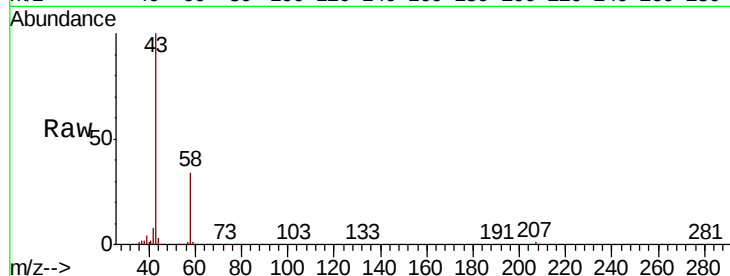




#16
Acetone
Concen: 129.613 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

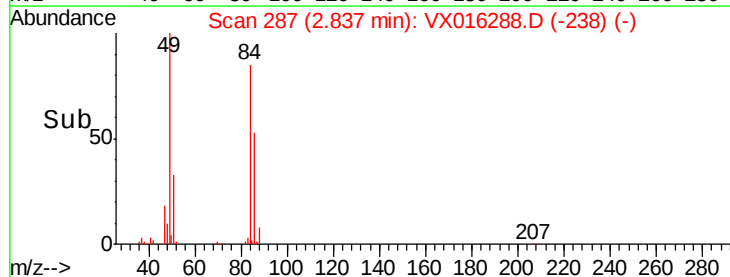
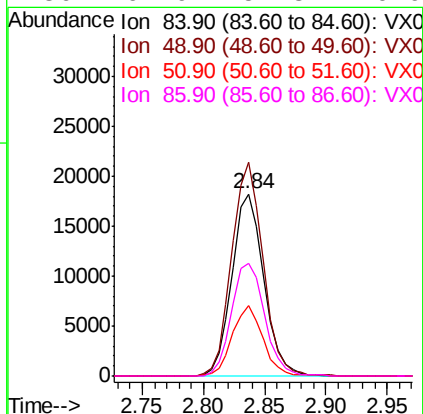
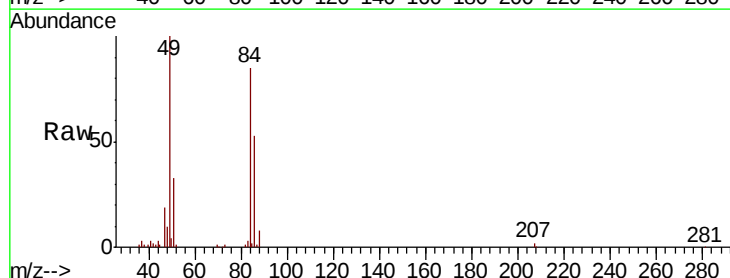
Instrument :
MSVOA_X
ClientSampleId :

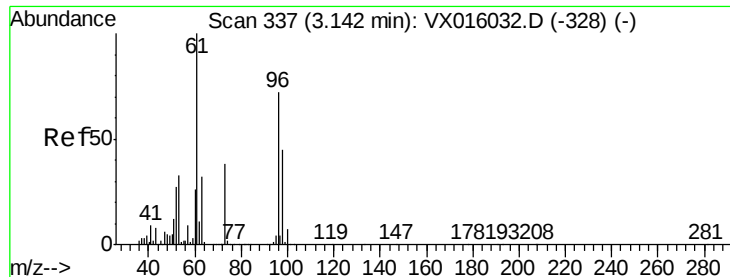
Tot Ion: 43 Resp: 176530
Ion Ratio Lower Upper
43 100
58 34.4 25.4 38.0



#20
Methylene Chloride
Concen: 11.679 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Tgt Ion: 84 Resp: 32791
Ion Ratio Lower Upper
84 100
49 117.4 97.3 145.9
51 38.5 29.3 43.9
86 61.9 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 0.284 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

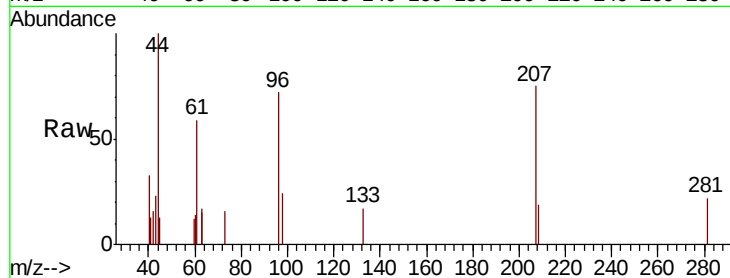
Tot Ion: 96 Resp: 763

Ion Ratio Lower Upper

96 100

61 82.0 111.2 166.8#

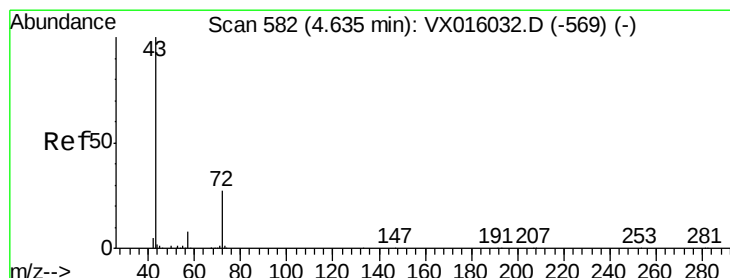
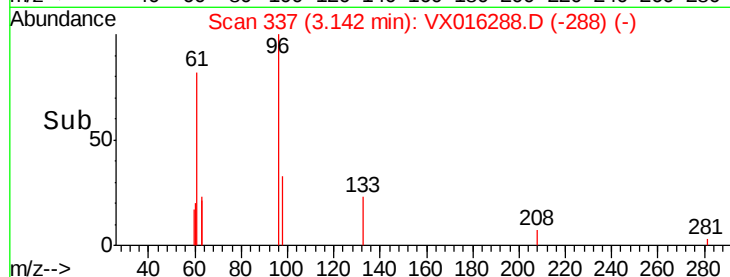
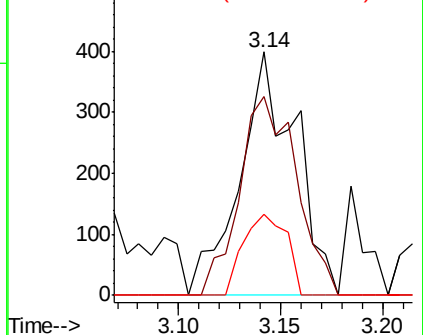
98 33.3 50.2 75.4#



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: 72.076 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016288.D

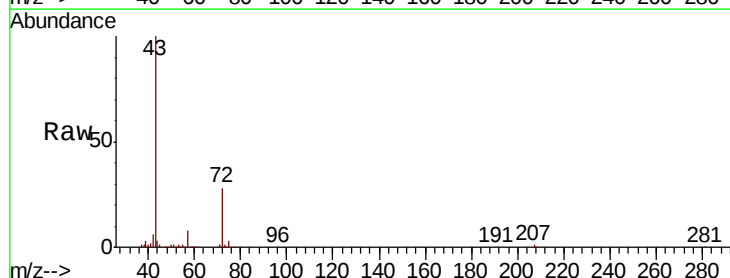
Acq: 15 May 2020 18:05

Tgt Ion: 43 Resp: 158184

Ion Ratio Lower Upper

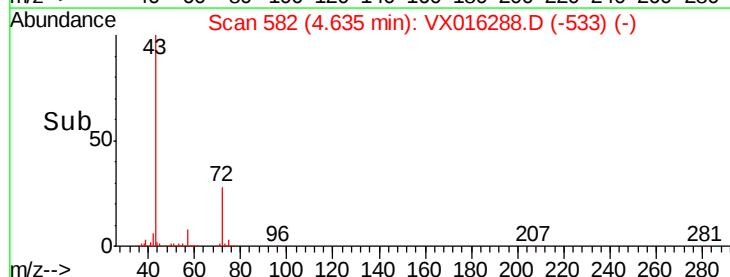
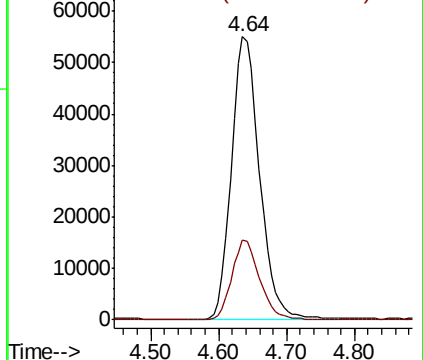
43 100

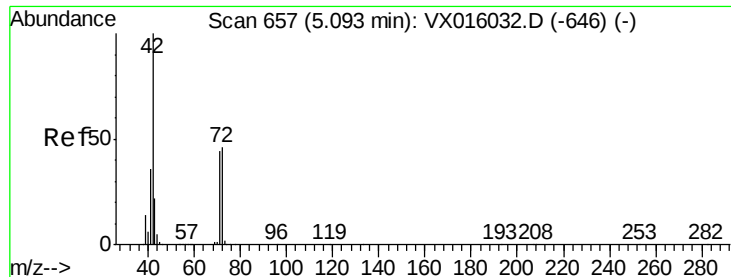
72 28.3 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

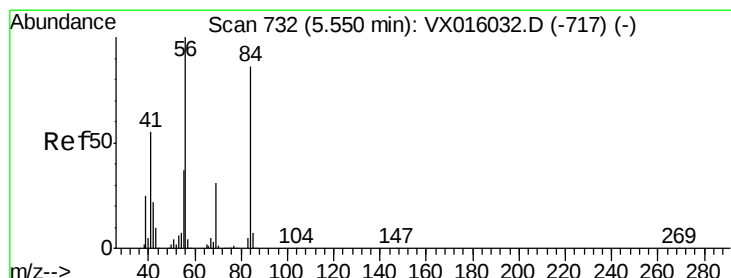
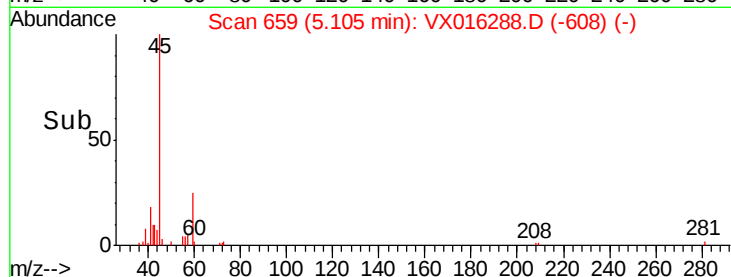
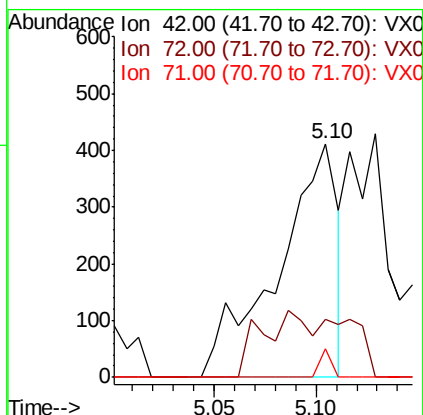
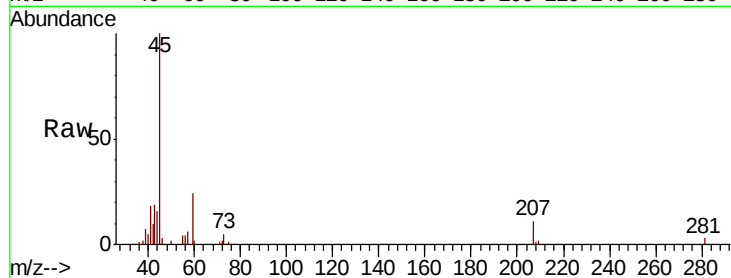




#29
Tetrahydrofuran
Concen: 0.578 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

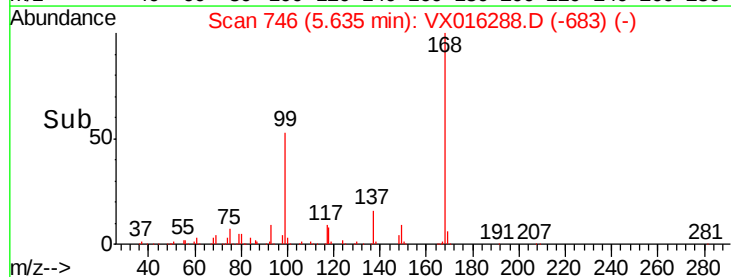
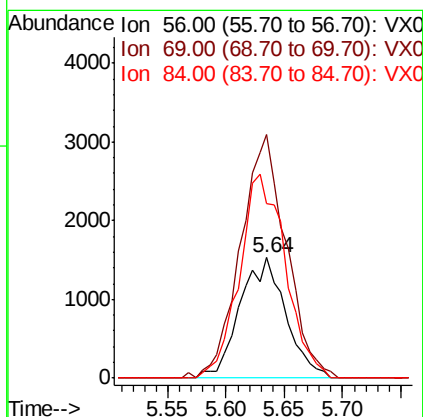
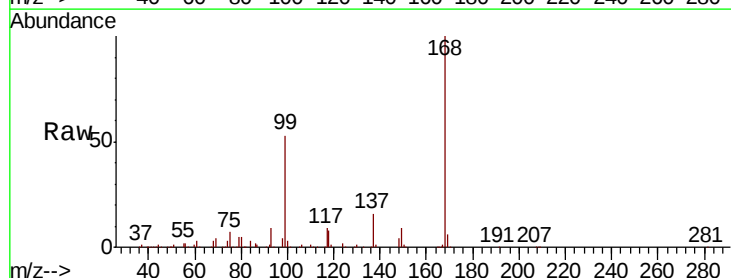
Instrument :
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ClientSampleId :

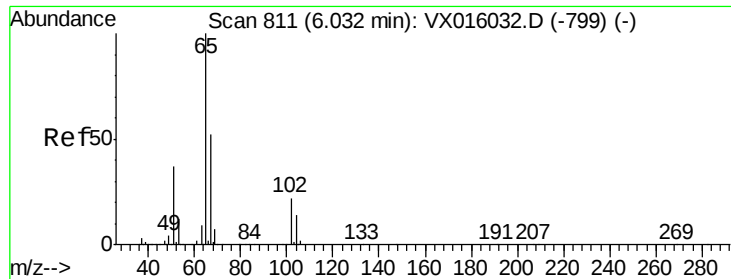
Tot Ion: 42 Resp: 841
Ion Ratio Lower Upper
42 100
72 23.1 37.1 55.7#
71 2.1 34.5 51.7#



#31
Cyclohexane
Concen: 0.988 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Tgt Ion: 56 Resp: 4189
Ion Ratio Lower Upper
56 100
69 201.9 25.0 37.6#
84 145.0 69.0 103.6#

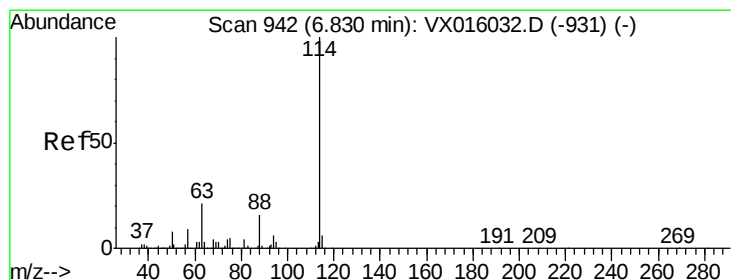
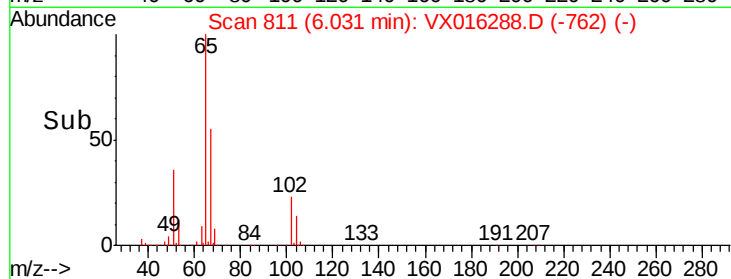
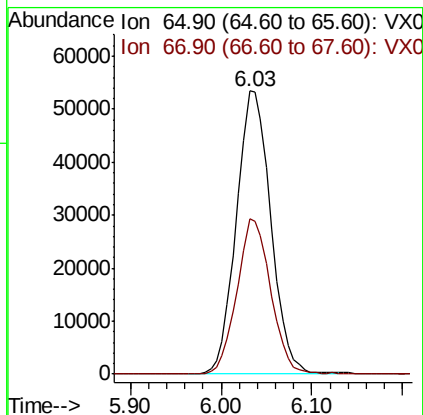
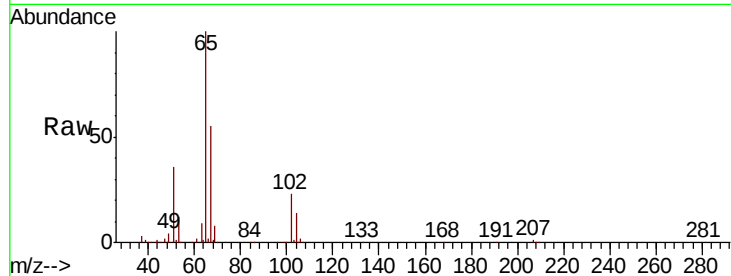




#33
 1,2-Dichloroethane-d4
 Concen: 46.166 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016288.D
 Acq: 15 May 2020 18:05

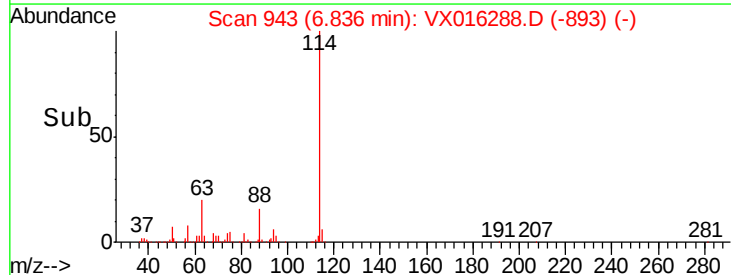
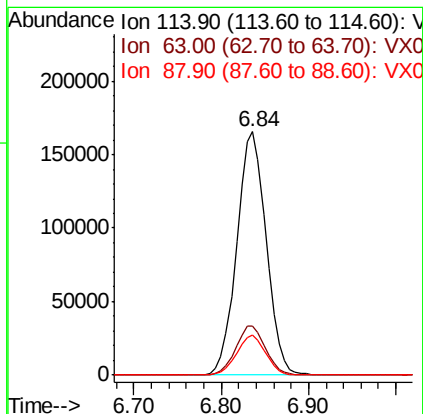
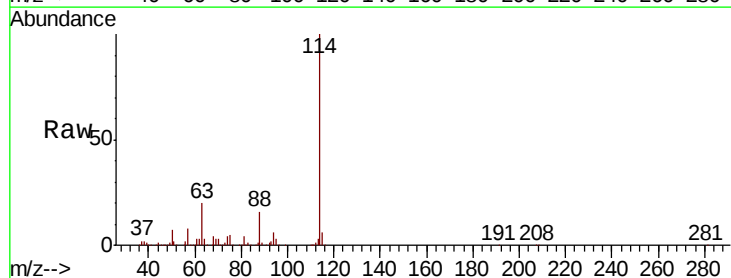
Instrument :
 MSVOA_X
 ClientSampleId :

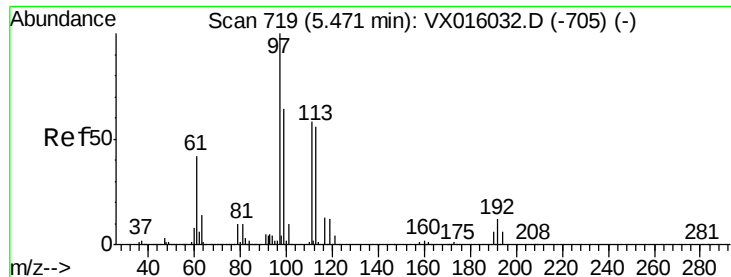
Tot Ion: 65 Resp: 140920
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016288.D
 Acq: 15 May 2020 18:05

Tgt Ion: 114 Resp: 387003
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 42.8
 88 16.3 0.0 31.4

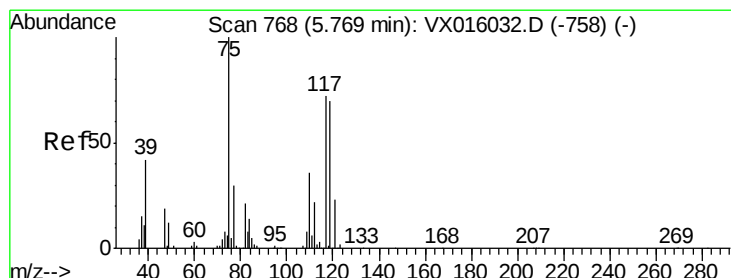
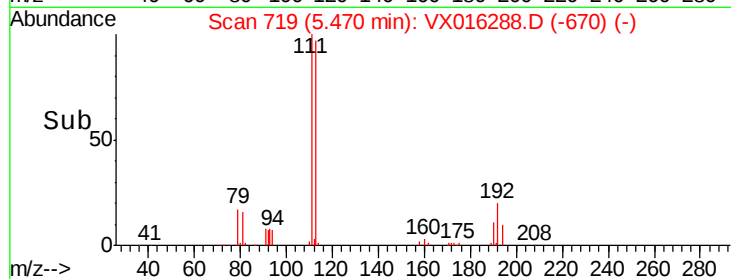
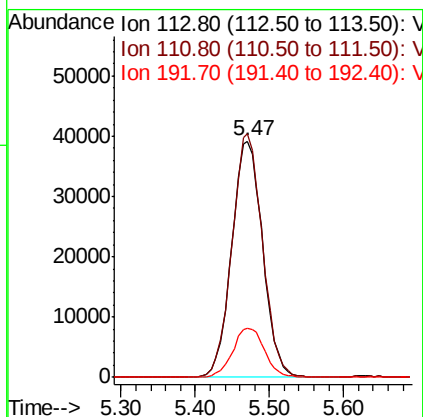
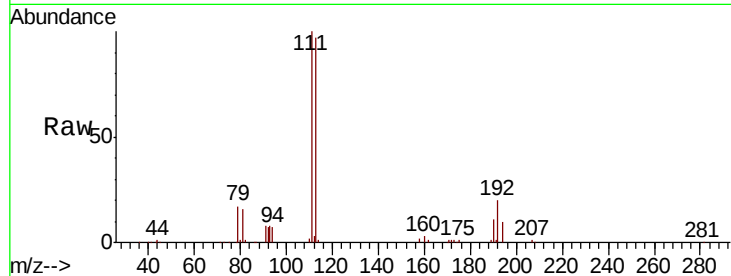




#35
 Dibromofluoromethane
 Concen: 46.525 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016288.D
 Acq: 15 May 2020 18:05

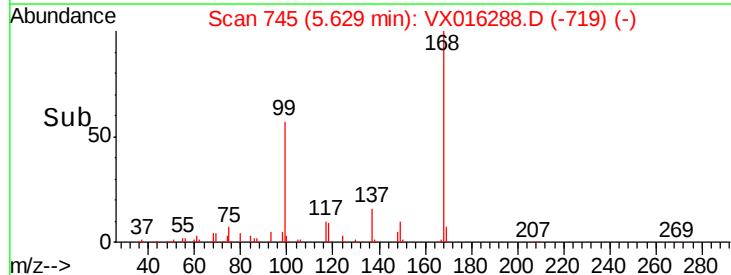
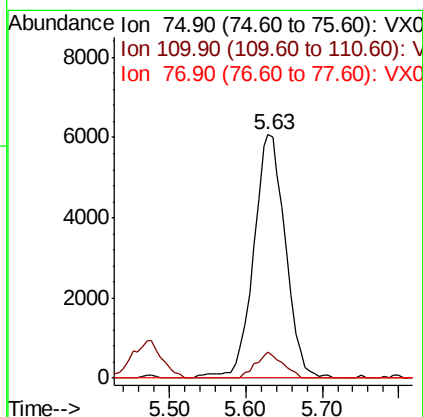
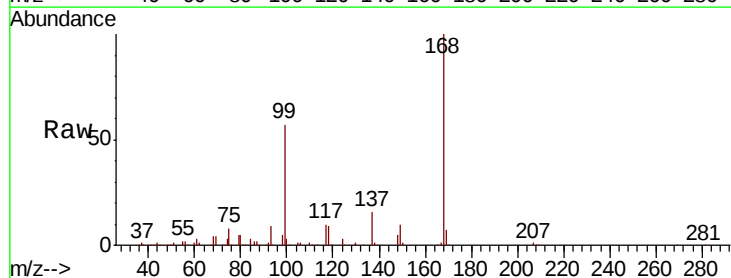
Instrument :
 MSVOA_X
 ClientSampled :

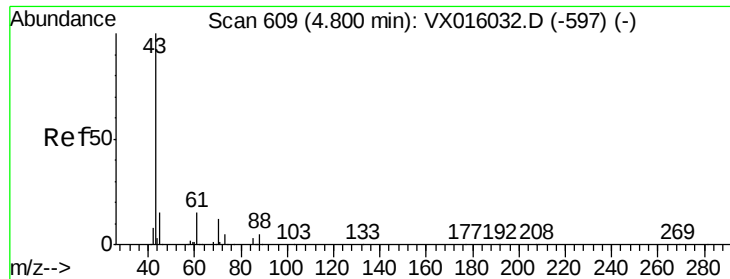
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.6	122.4
192	21.4	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.617 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016288.D
 Acq: 15 May 2020 18:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.1#
77	0.0	25.0	37.6#

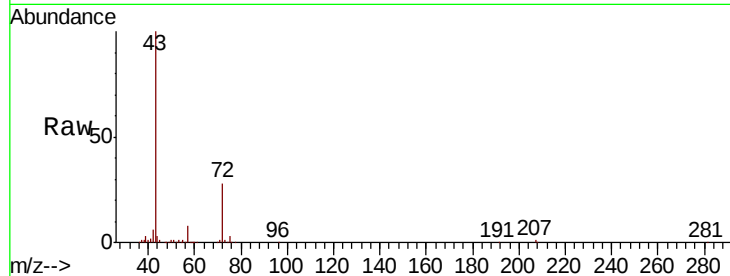




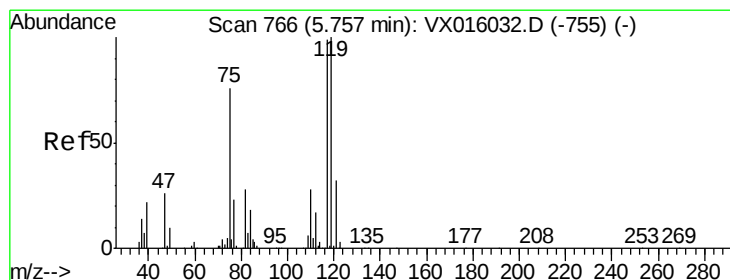
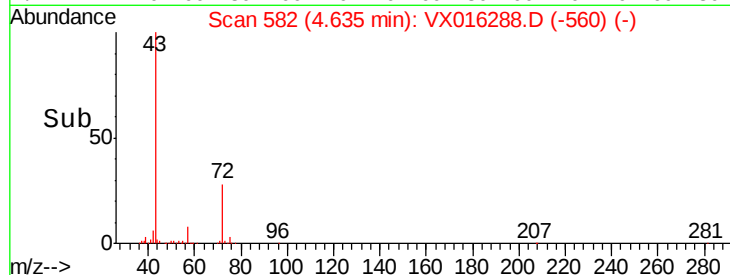
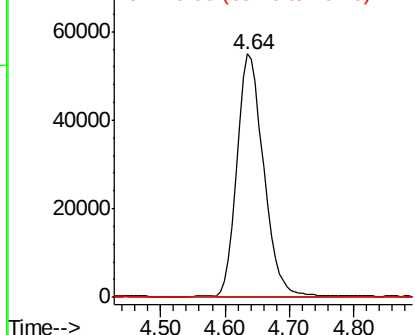
#37
Ethyl Acetate
Concen: 35.859 ug/l
RT: 4.64 min Scan# 582
Delta R.T. -0.16 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	43	Resp	158328
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.7	17.5#
70	0.1	9.3	13.9#

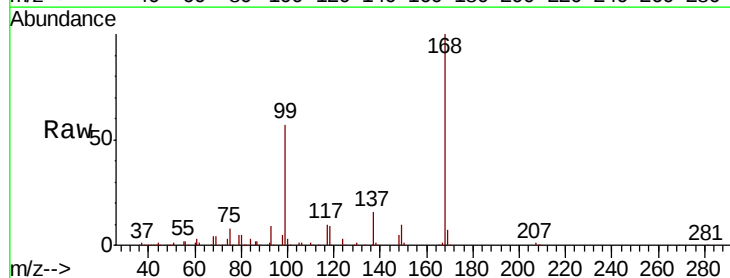


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

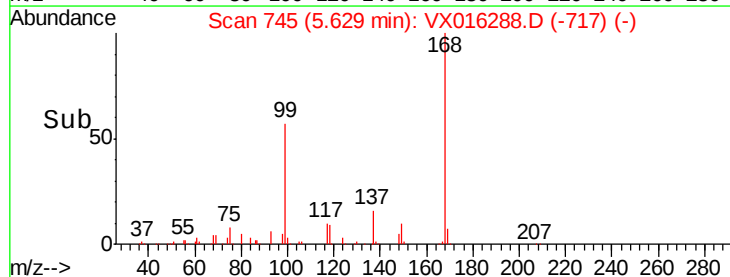
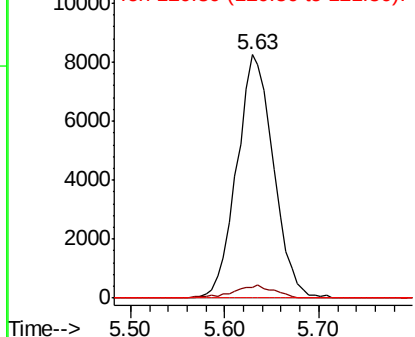


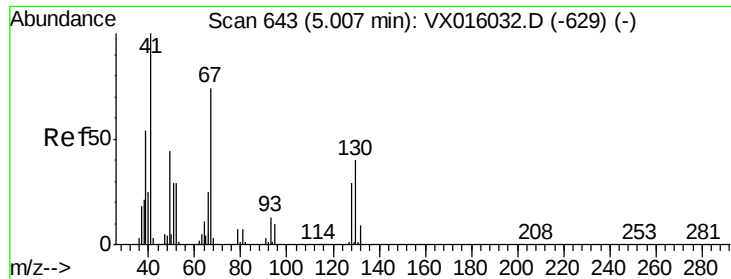
#38
Carbon Tetrachloride
Concen: 5.802 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Tgt Ion	117	Resp	22465
Ion Ratio	Lower	Upper	
117	100		
119	4.5	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

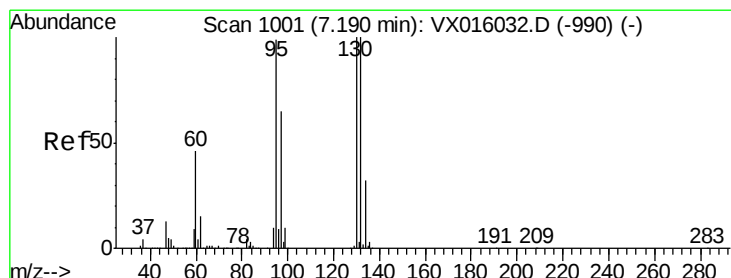
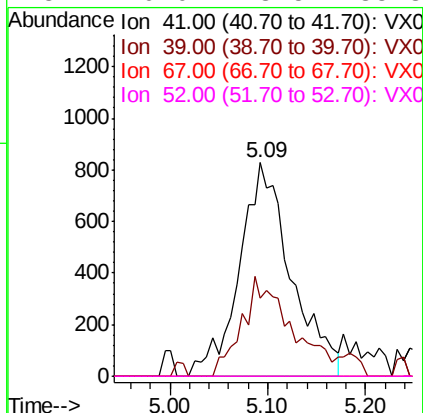
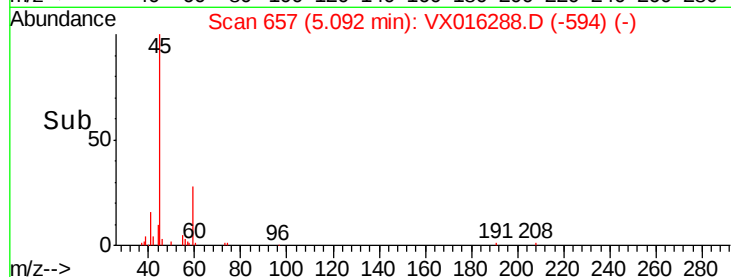
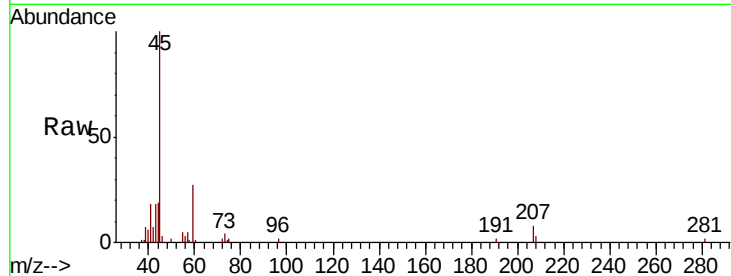




#41
Methacrylonitrile
Concen: 1.280 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.09 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

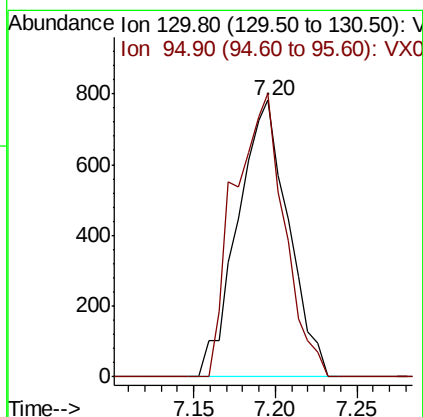
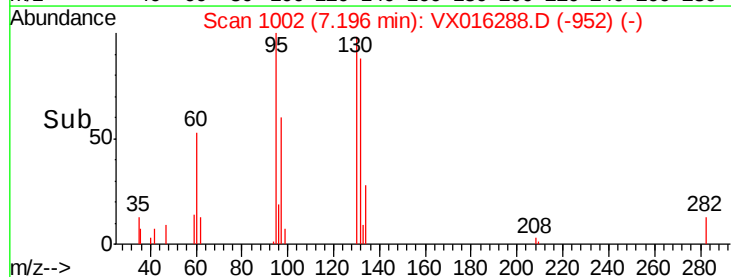
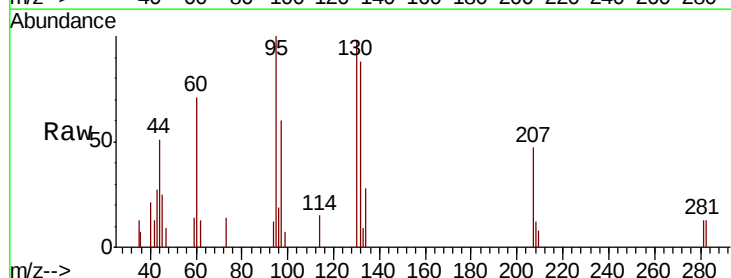
Instrument :
MSVOA_X
ClientSampleId :

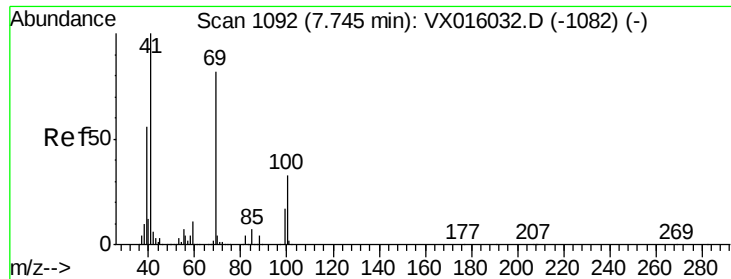
Tot Ion:	41	Resp:	3053
Ion	Ratio	Lower	Upper
41	100		
39	44.2	43.2	64.8
67	0.0	59.3	88.9#
52	0.0	23.5	35.3#



#44
Trichloroethene
Concen: 0.427 ug/l
RT: 7.20 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Tgt Ion:	130	Resp:	1689
Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	197.4

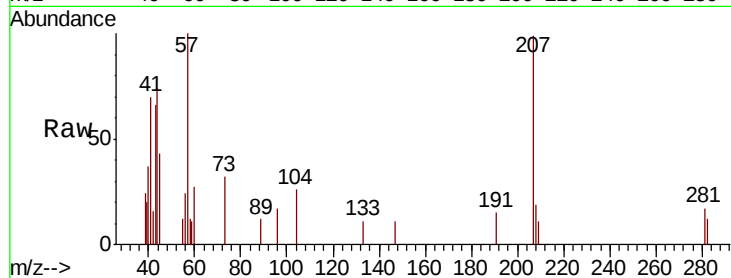




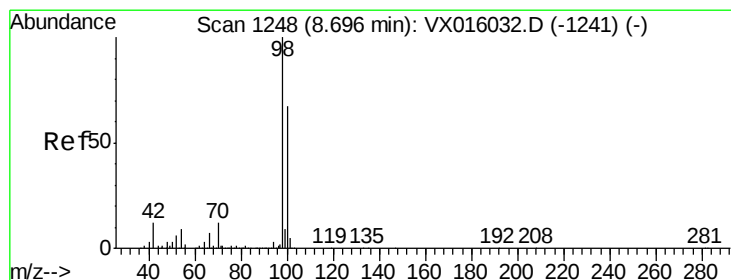
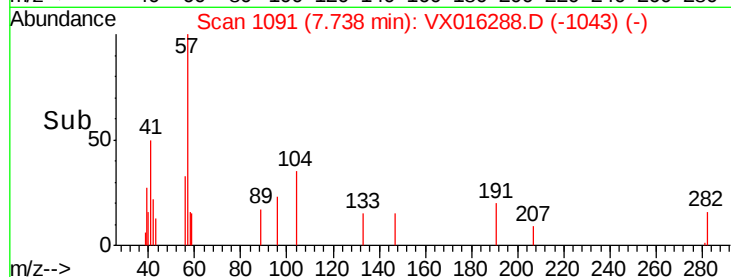
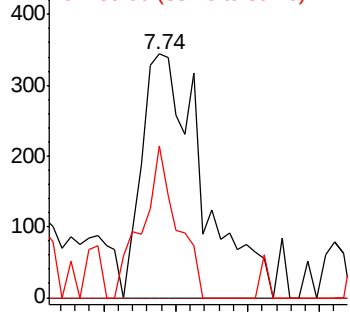
#48
Methvl methacrylate
Concen: 0.301 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 41 Resp: 1006
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 35.9 44.6 67.0#

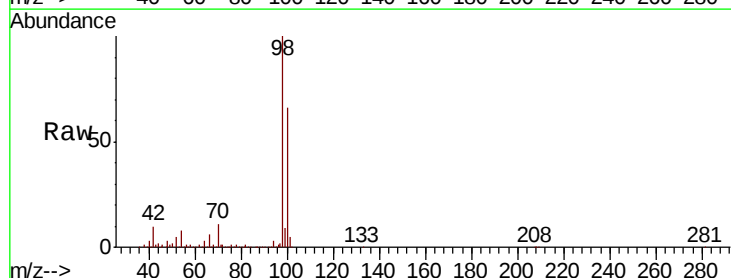


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

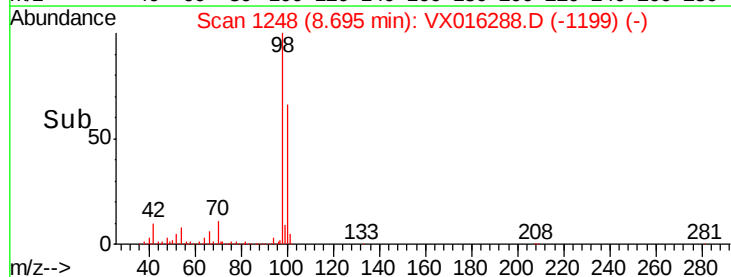
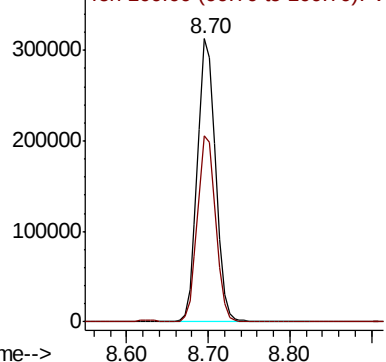


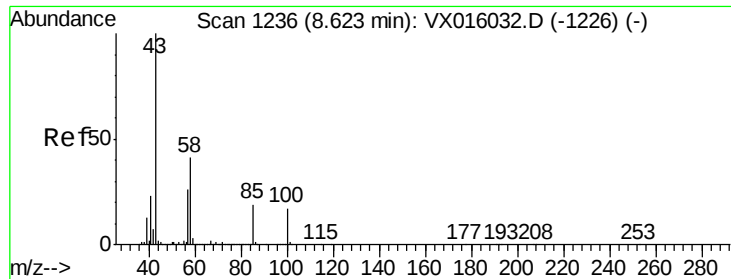
#50
Toluene-d8
Concen: 50.803 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Tgt Ion: 98 Resp: 479935
Ion Ratio Lower Upper
98 100
100 66.0 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 5.138 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

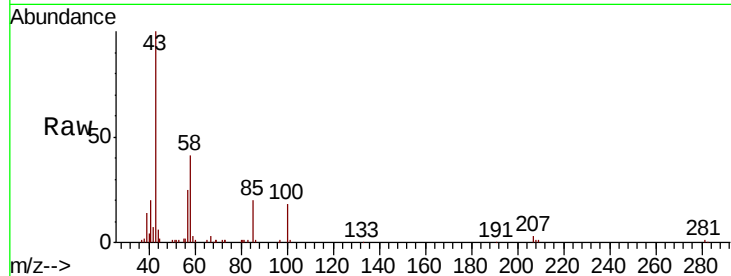
ClientSampleId :

Tot Ion: 43 Resp: 22150

Ion Ratio Lower Upper

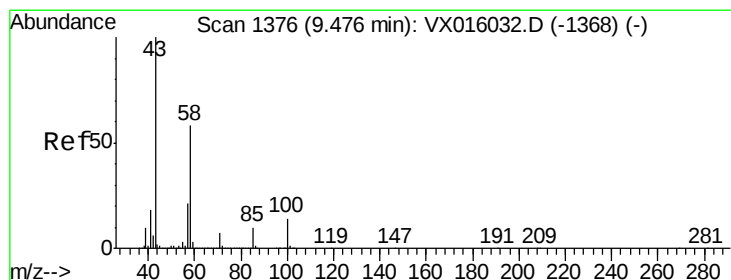
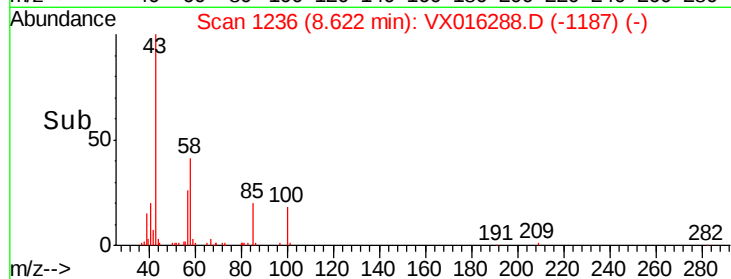
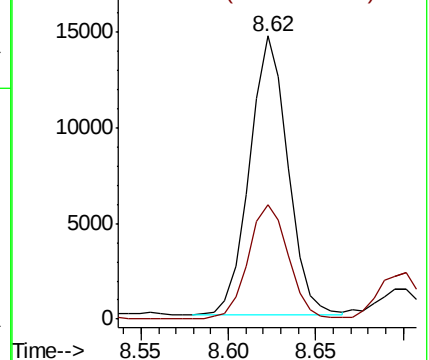
43 100

58 43.1 33.0 49.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.775 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX016288.D

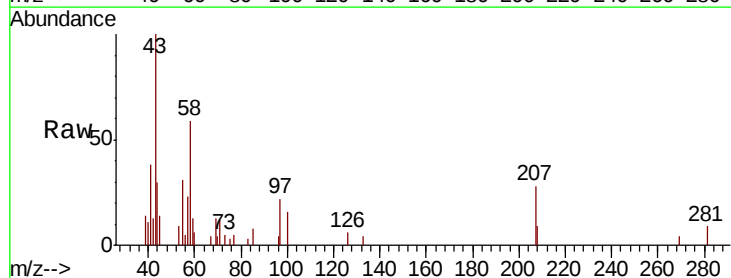
Acq: 15 May 2020 18:05

Tgt Ion: 43 Resp: 2625

Ion Ratio Lower Upper

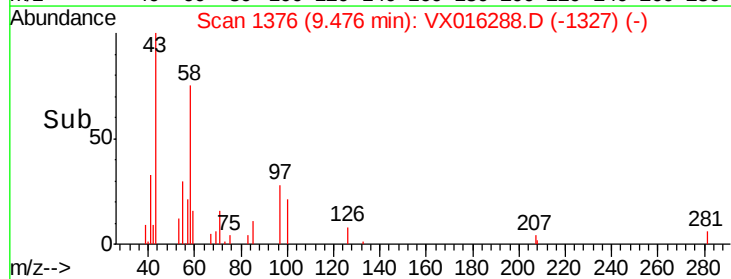
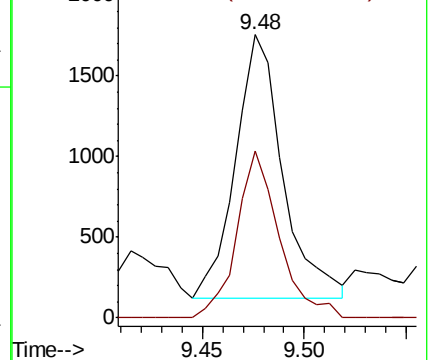
43 100

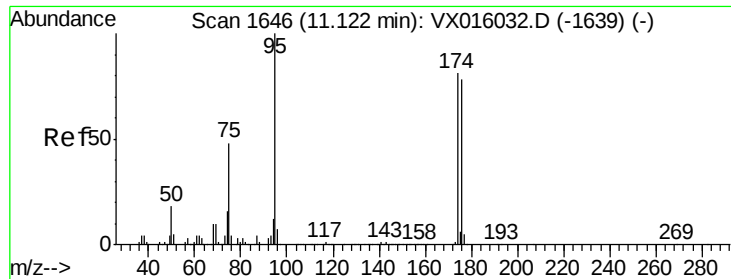
58 56.9 28.6 85.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.123 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

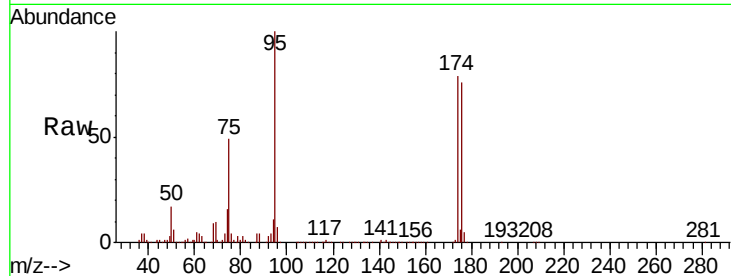
Tot Ion: 95 Resp: 194475

Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.4

176 75.4 0.0 157.6

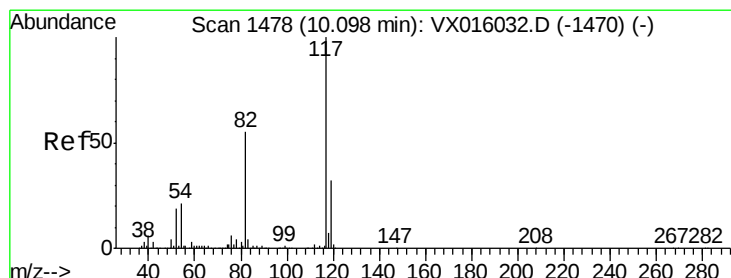
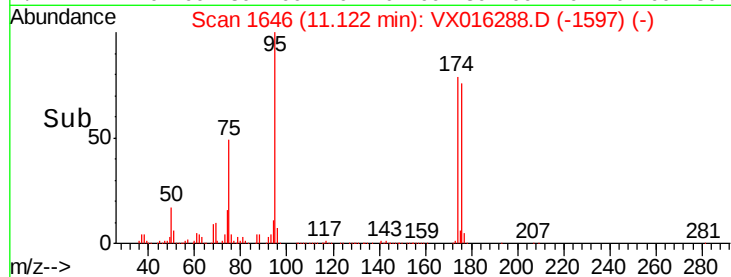
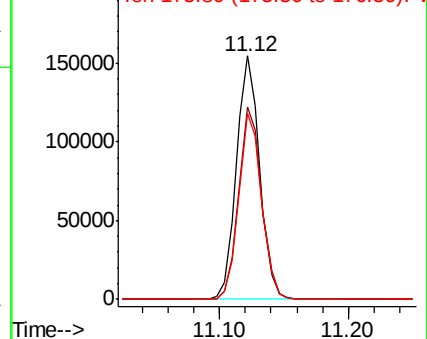


Abundance

Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

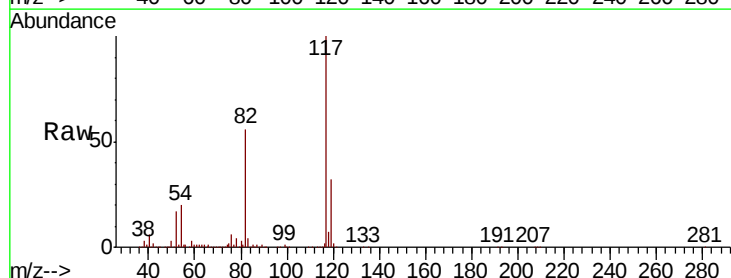
Tgt Ion: 117 Resp: 381255

Ion Ratio Lower Upper

117 100

82 55.5 44.4 66.6

119 31.7 25.5 38.3

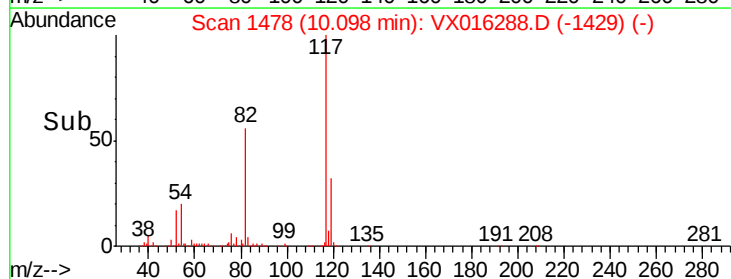
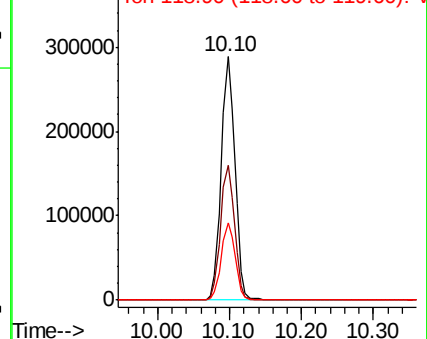


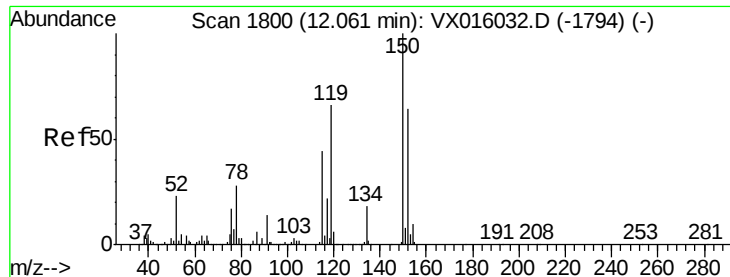
Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

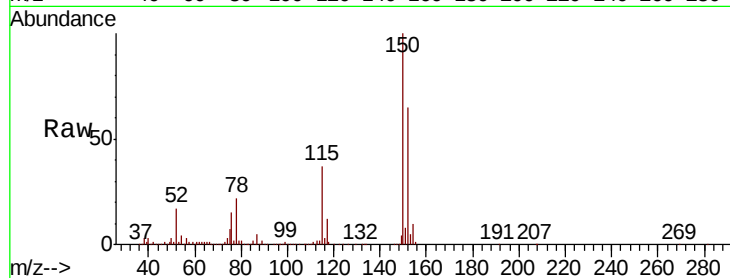
Tot Ion:152 Resp: 196544

Ion Ratio Lower Upper

152 100

115 58.9 41.3 124.1

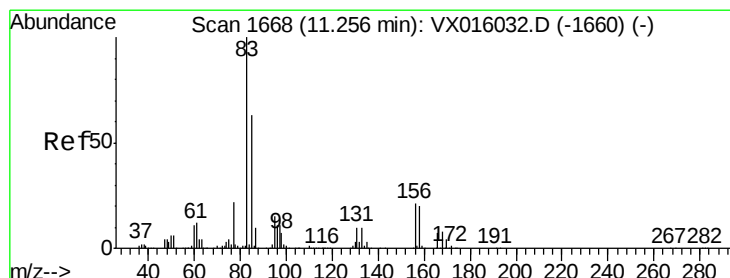
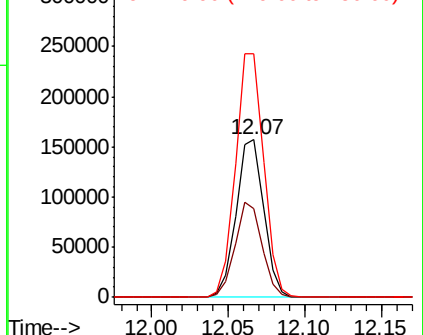
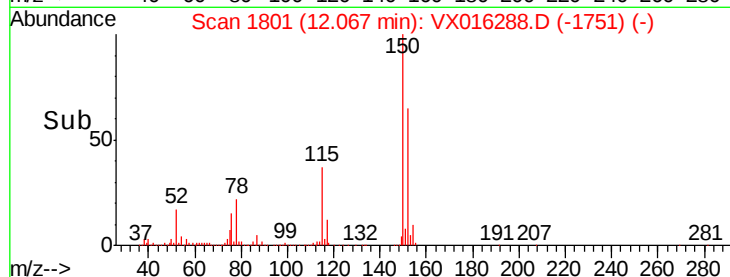
150 157.9 0.0 352.2



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: 2.110 ug/l

RT: 11.38 min Scan# 1688

Delta R.T. 0.12 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

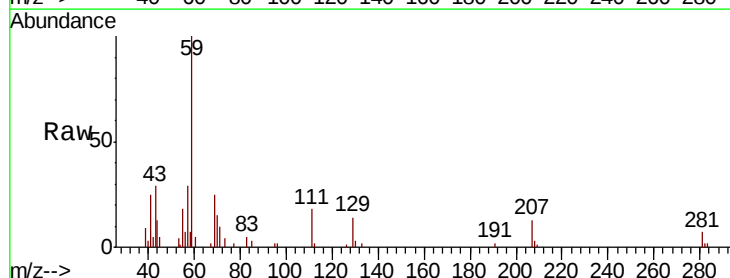
Tgt Ion: 83 Resp: 162

Ion Ratio Lower Upper

83 100

131 11.7 5.1 15.4

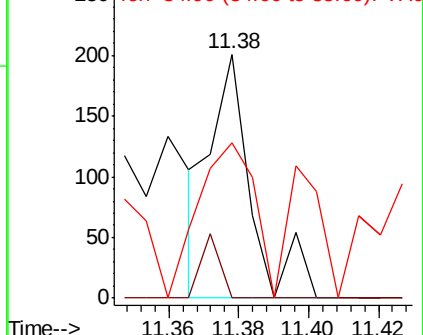
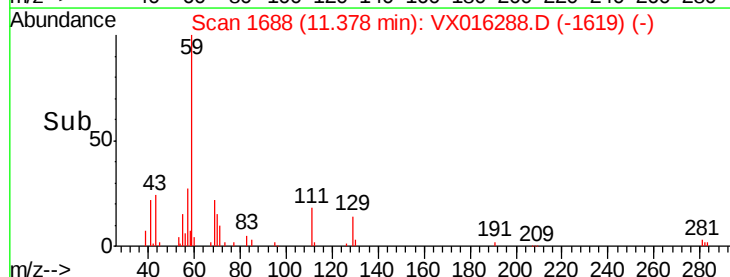
85 88.3 32.0 96.0

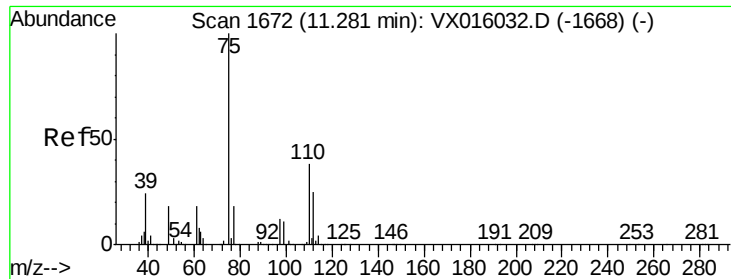


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 20.942 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

Instrument :

MSVOA_X

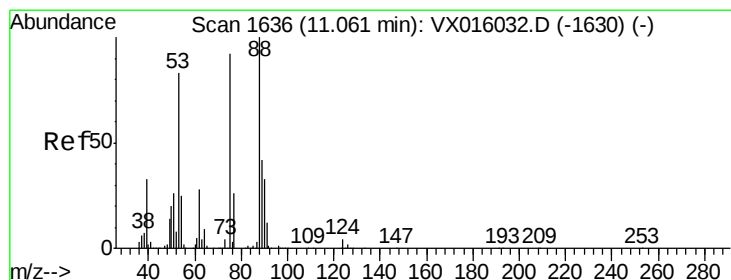
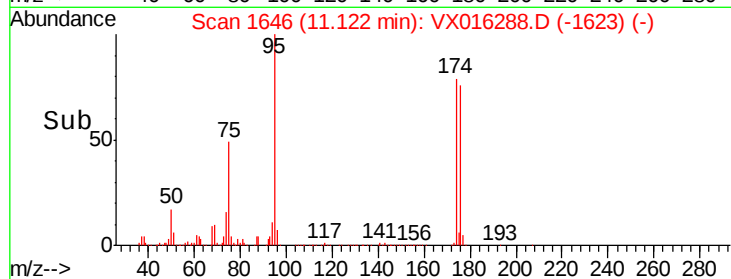
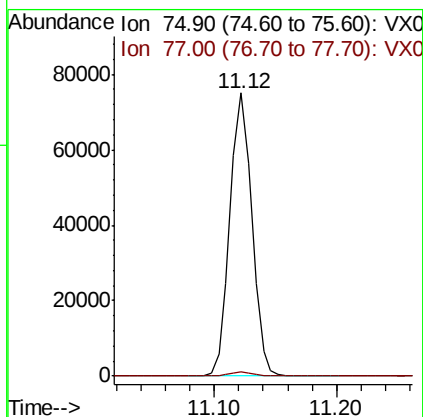
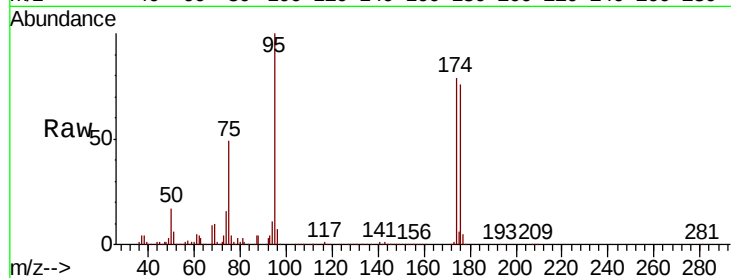
ClientSampleId :

Tot Ion: 75 Resp: 93403

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.907 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016288.D

Acq: 15 May 2020 18:05

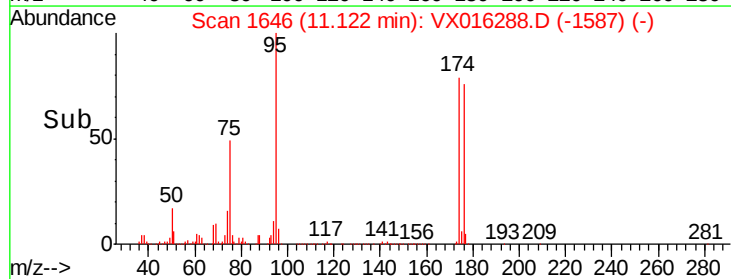
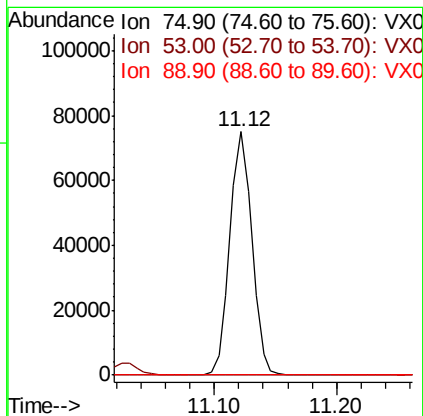
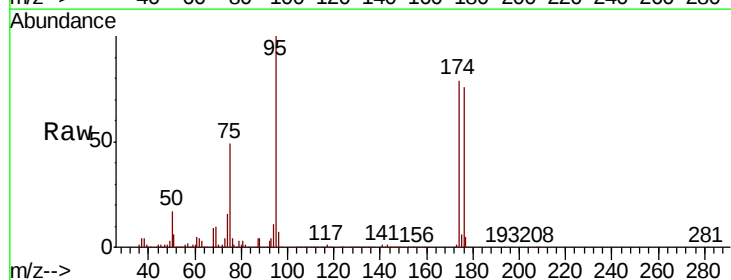
Tgt Ion: 75 Resp: 93403

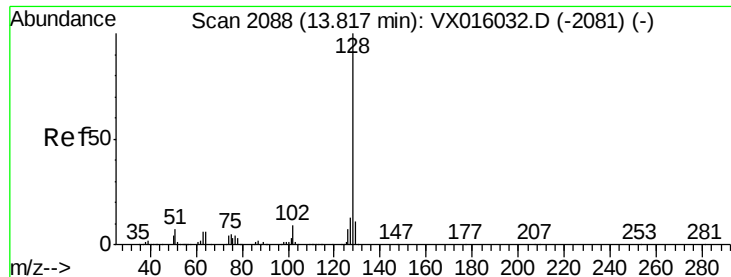
Ion Ratio Lower Upper

75 100

53 0.3 73.1 109.7#

89 0.0 36.7 55.1#





#95
Naphthalene
Concen: 0.215 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX016288.D
Acq: 15 May 2020 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.2	15.4
129	13.8	8.7	13.1

