

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052220\
 Data File : VX016408.D
 Acq On : 22 May 2020 13:43
 Operator : JC/SP
 Sample : L2728-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:35:37 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	225002	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	372881	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	373429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	184223	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	126382	42.69	ug/l	0.00
Spiked Amount			Recovery	=	85.38%	
35) Dibromofluoromethane	5.47	113	109558	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	
50) Toluene-d8	8.70	98	462184	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	11.12	95	182369	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	

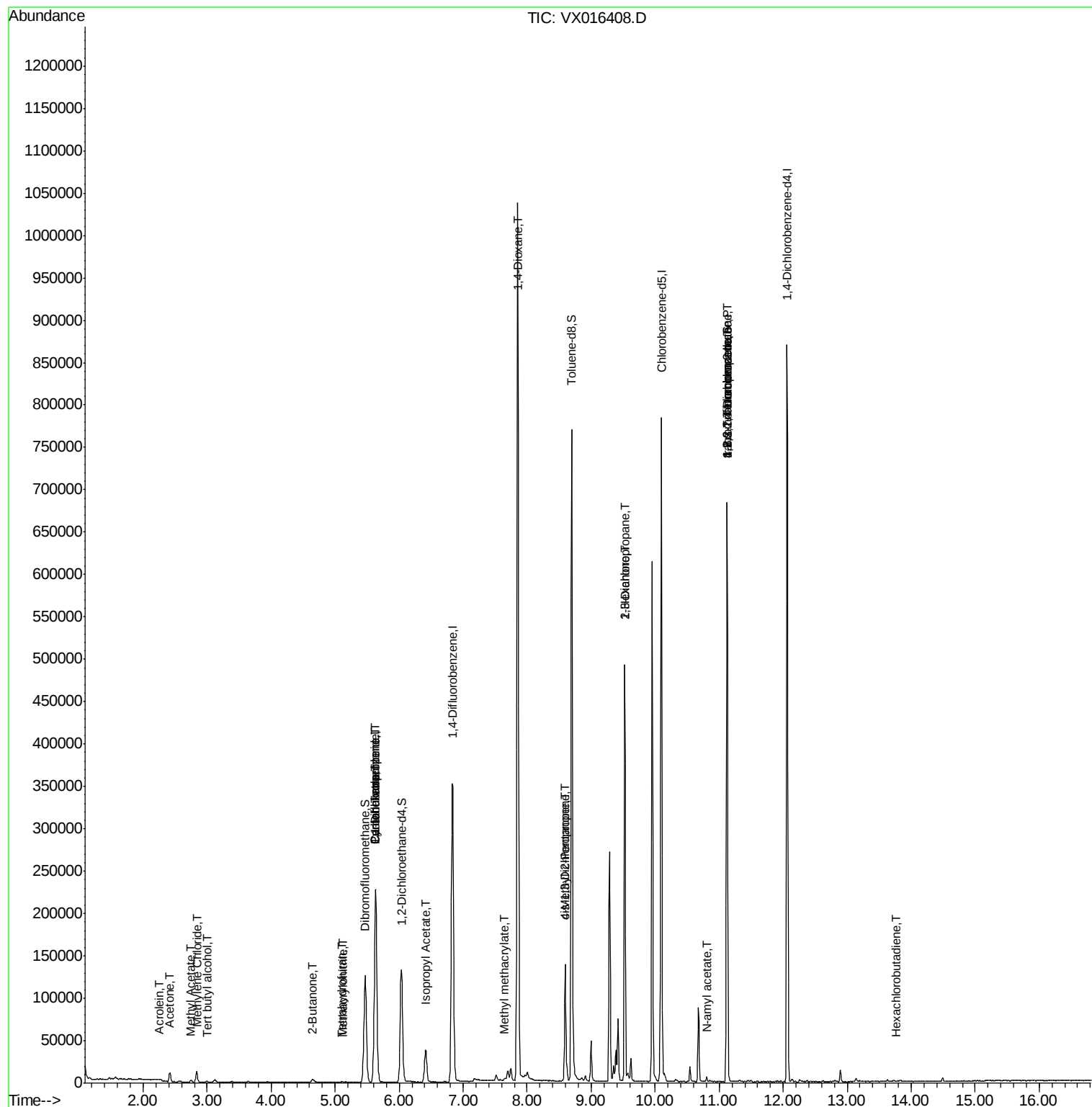
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	740	0.988	ug/l #	72
13) Acrolein	2.25	56	247	0.527	ug/l #	50
16) Acetone	2.42	43	11852	8.971	ug/l	93
17) Carbon Disulfide	2.56	76	1017	Below Cal	#	77
18) Methyl Acetate	2.75	43	3024	0.931	ug/l	97
20) Methylene Chloride	2.83	84	5985	2.198	ug/l #	84
25) 2-Butanone	4.64	43	2208	1.037	ug/l	97
29) Tetrahydrofuran	5.10	42	721	0.511	ug/l #	79
31) Cyclohexane	5.64	56	3637	0.884	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16254	4.428	ug/l #	49
38) Carbon Tetrachloride	5.64	117	21845	5.855	ug/l #	13
41) Methacrylonitrile	5.12	41	530	0.231	ug/l #	25
43) Isopropyl Acetate	6.42	43	52505	7.735	ug/l	97
48) Methyl methacrylate	7.65	41	3354	1.043	ug/l #	14
49) 1,4-Dioxane	7.85	88	189	2.450	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	47194	11.362	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	24600	5.252	ug/l #	55
57) 1,3-Dichloropropane	9.52	76	4374	0.952	ug/l #	42
59) 2-Hexanone	9.52	43	50079	15.352	ug/l #	52
74) N-amyl acetate	10.81	43	2774	0.444	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	11.12	83	167	2.116	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	87420	20.912	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	87420	49.834	ug/l #	13
94) Hexachlorobutadiene	13.76	225	98	0.574	ug/l #	69

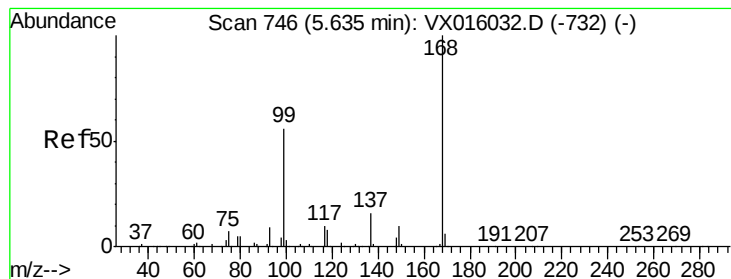
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 23 01:35:37 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: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

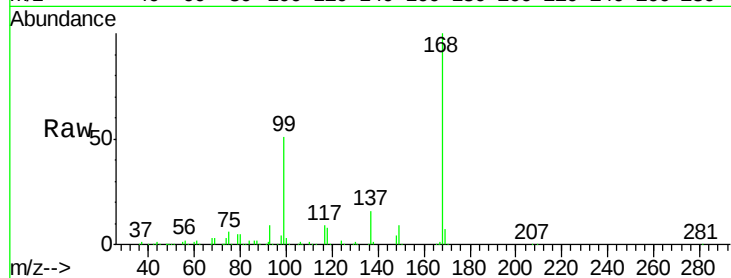
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 225002

Ion Ratio Lower Upper

168 100

99 51.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

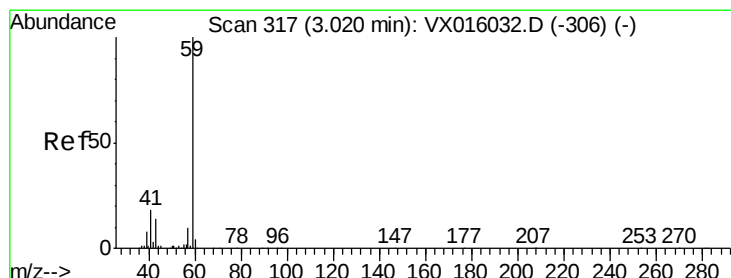
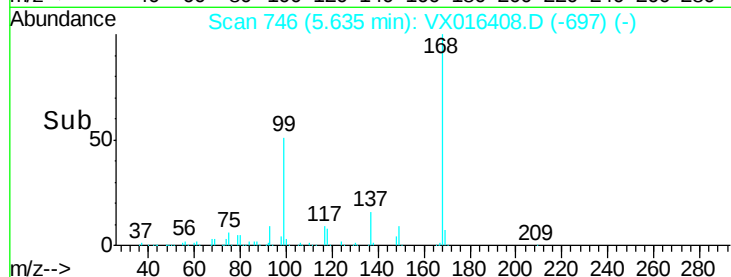
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.988 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016408.D

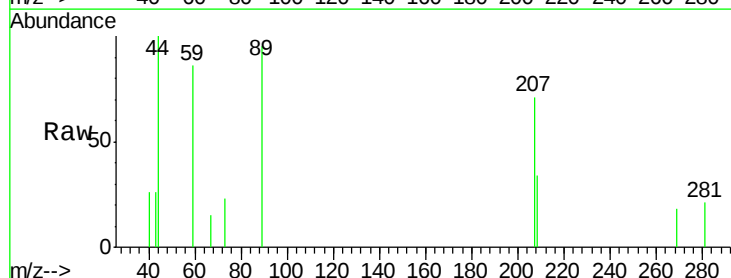
Acq: 22 May 2020 13:43

Tgt Ion: 59 Resp: 740

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

300

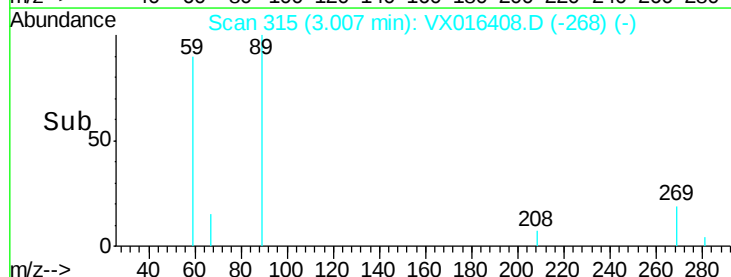
200

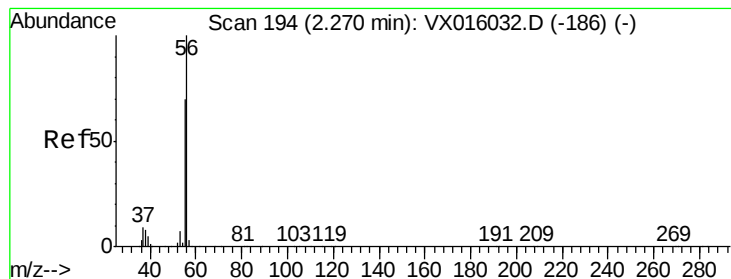
100

0

Time-->

2.95 3.00 3.05





#13

Acrolein

Concen: 0.527 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

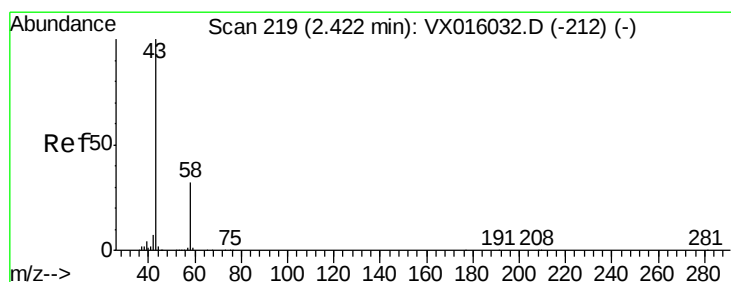
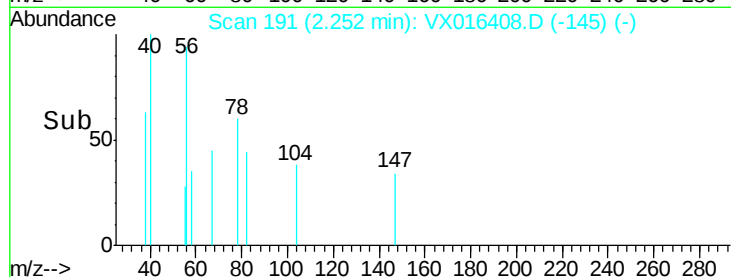
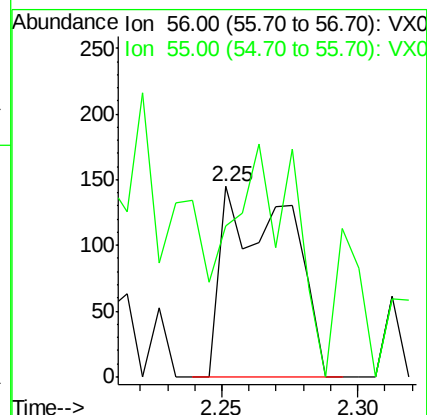
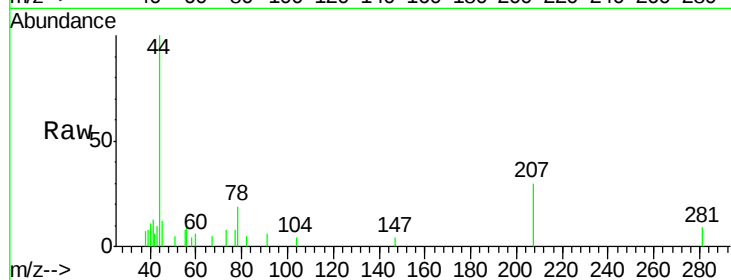
ClientSampled :

Tot Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 111.7 56.5 84.7#



#16

Acetone

Concen: 8.971 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016408.D

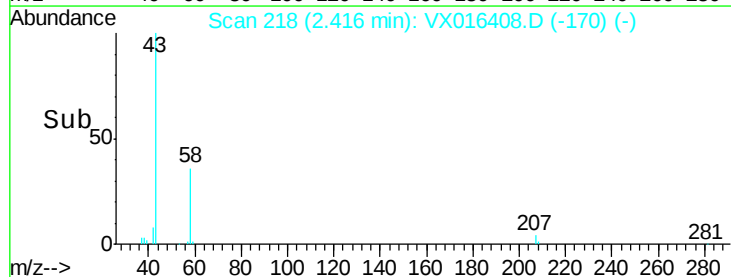
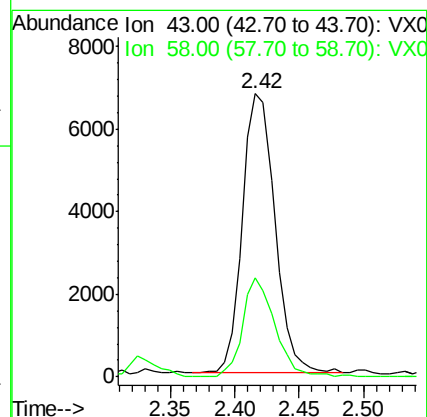
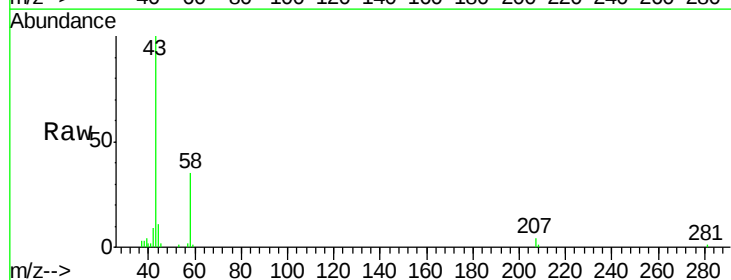
Acq: 22 May 2020 13:43

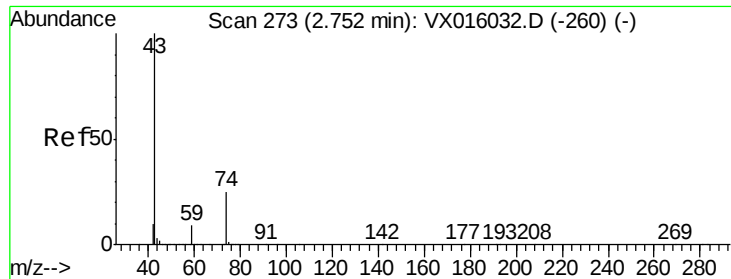
Tgt Ion: 43 Resp: 11852

Ion Ratio Lower Upper

43 100

58 35.4 25.4 38.0

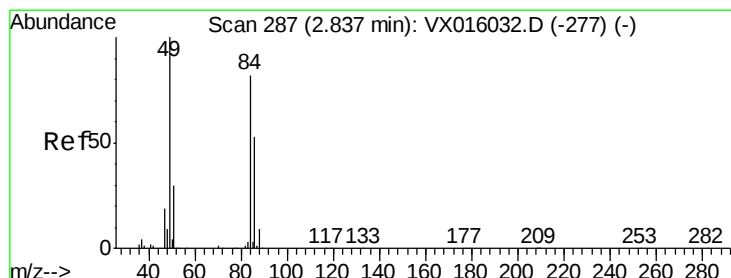
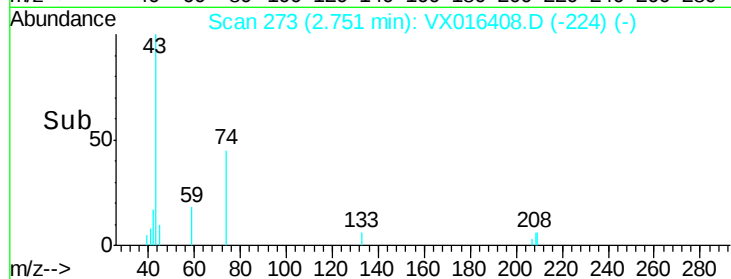
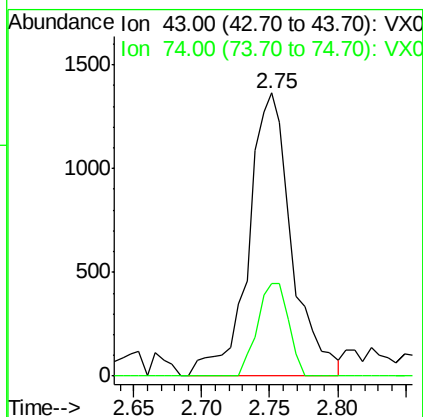
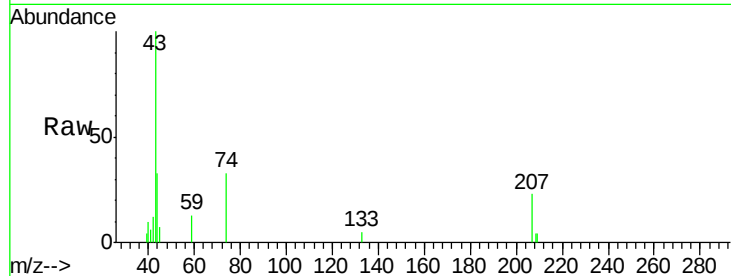




#18
Methyl Acetate
Concen: 0.931 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

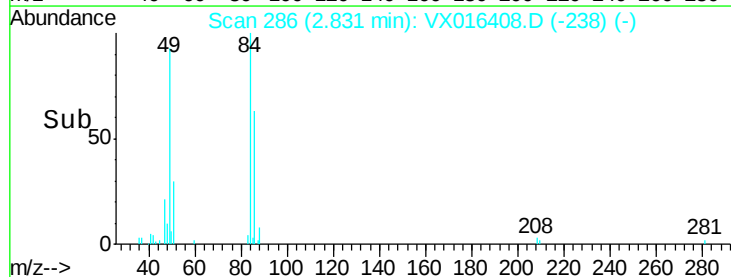
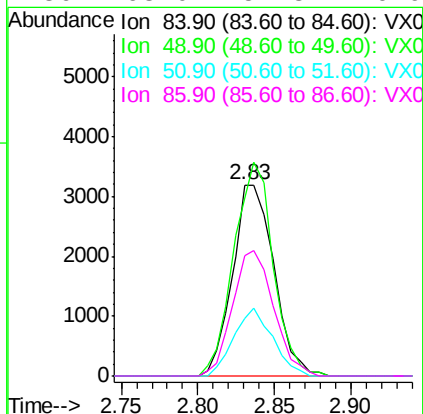
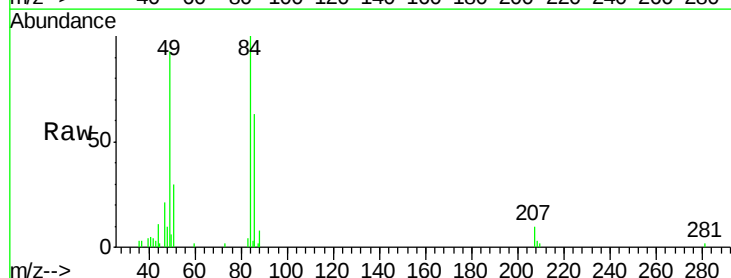
Instrument :
MSVOA_X
ClientSampled :

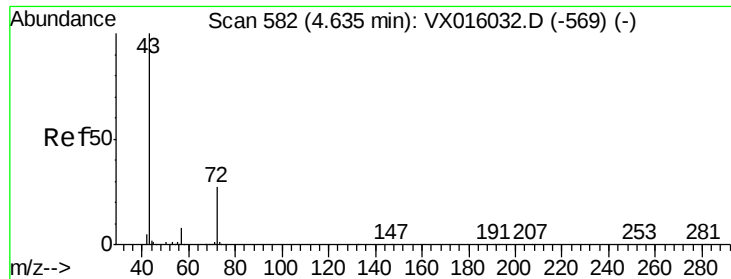
Tot Ion: 43 Resp: 3024
Ion Ratio Lower Upper
43 100
74 23.7 20.2 30.2



#20
Methylene Chloride
Concen: 2.198 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

Tgt Ion: 84 Resp: 5985
Ion Ratio Lower Upper
84 100
49 93.5 97.3 145.9#
51 30.2 29.3 43.9
86 63.0 51.3 76.9





#25

2-Butanone

Concen: 1.037 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

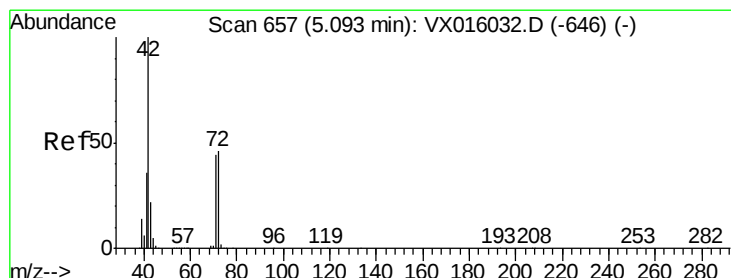
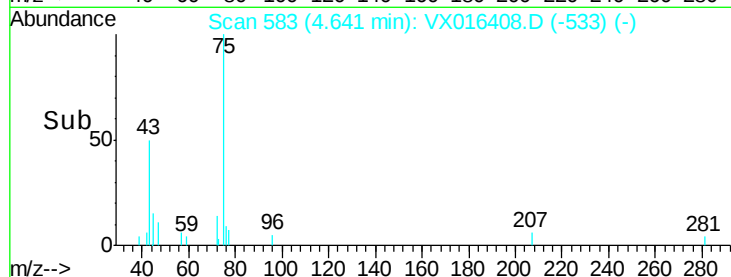
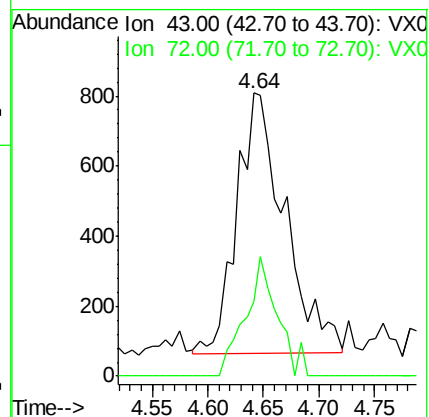
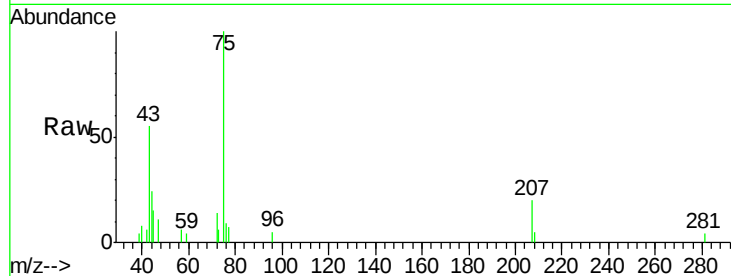
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 2208

Ion Ratio Lower Upper

43 100

72 29.0 21.8 32.8



#29

Tetrahydrofuran

Concen: 0.511 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

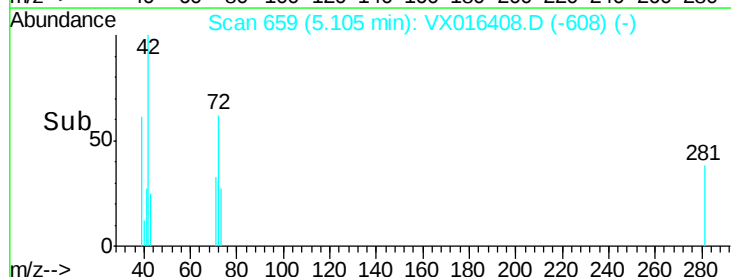
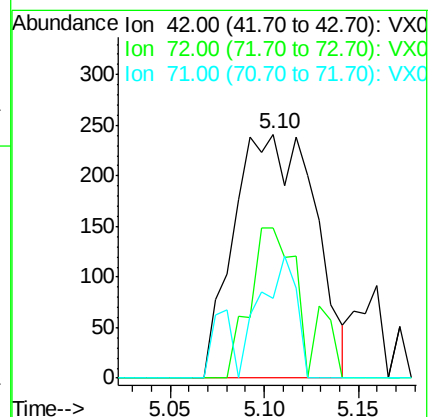
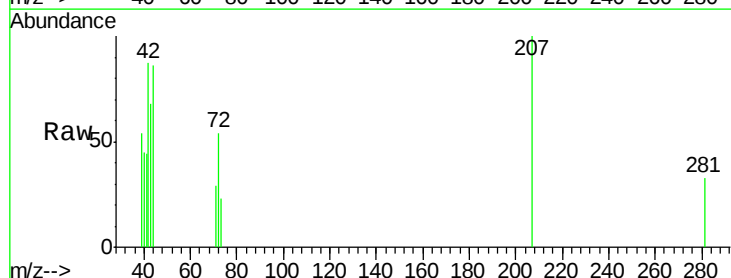
Tgt Ion: 42 Resp: 721

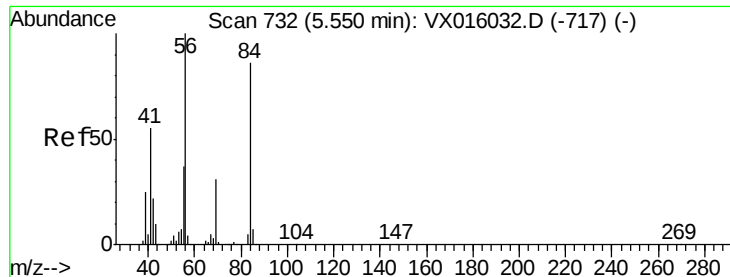
Ion Ratio Lower Upper

42 100

72 39.9 37.1 55.7

71 22.2 34.5 51.7#

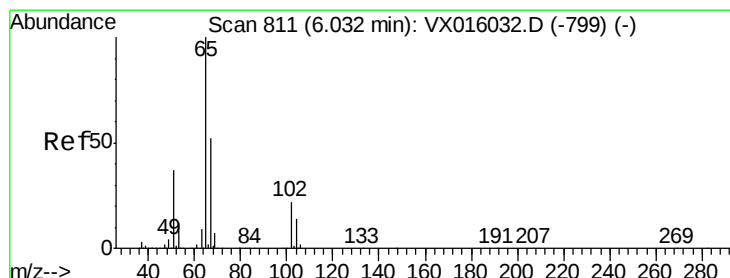
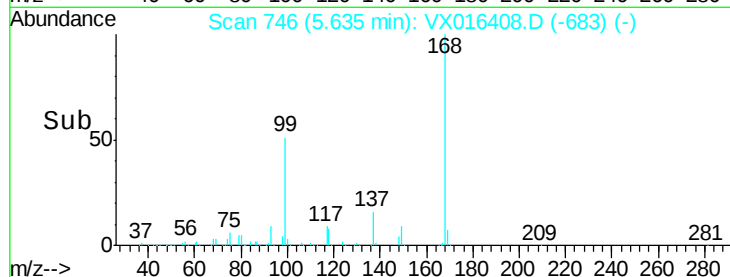
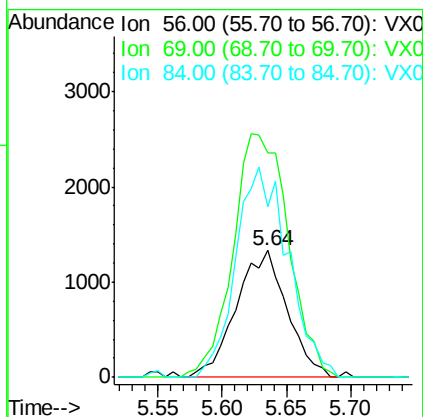
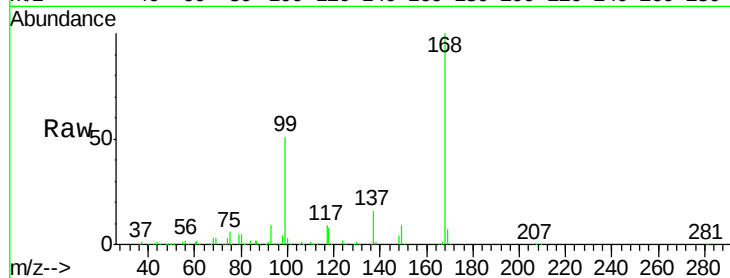




#31
Cyclohexane
Concen: 0.884 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

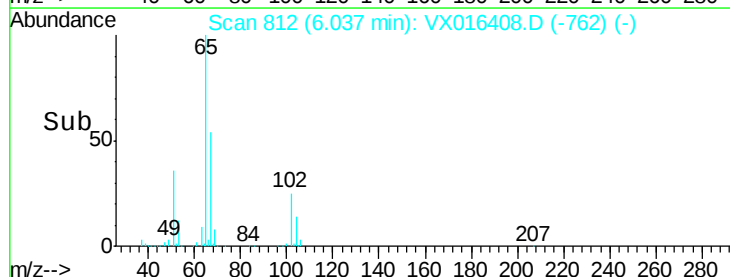
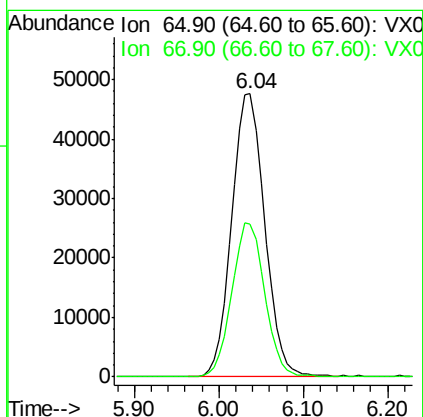
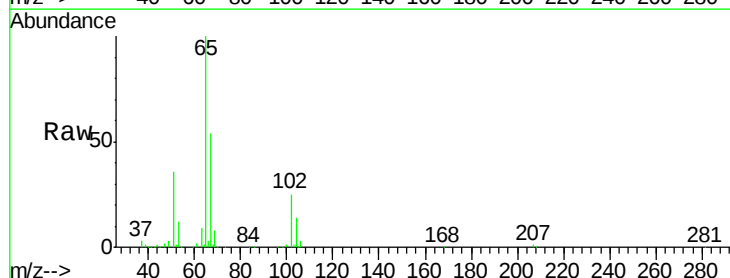
Instrument :
MSVOA_X
ClientSampleId :

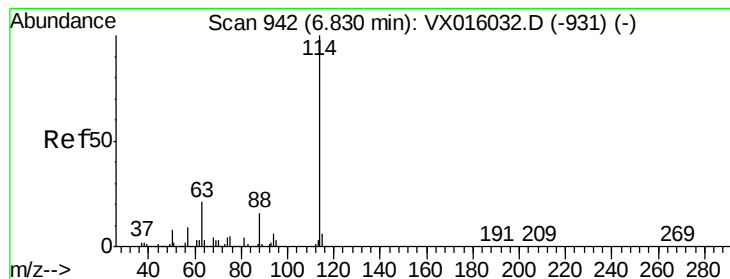
Tot Ion: 56 Resp: 3637
Ion Ratio Lower Upper
56 100
69 177.1 25.0 37.6#
84 134.3 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 42.685 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

Tgt Ion: 65 Resp: 126382
Ion Ratio Lower Upper
65 100
67 53.9 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

ClientSampleId :

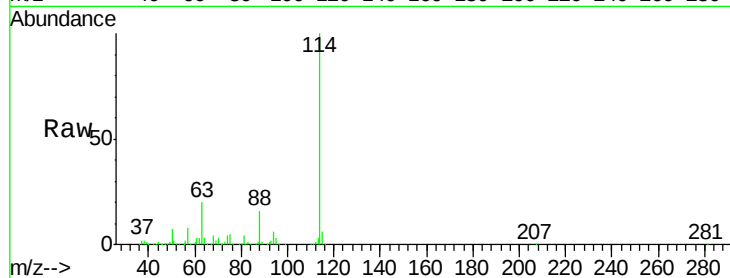
Tot Ion:114 Resp: 372881

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.8

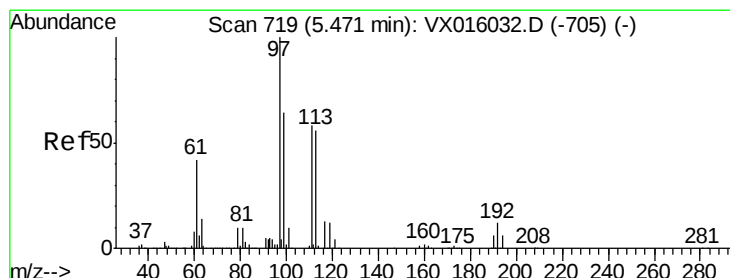
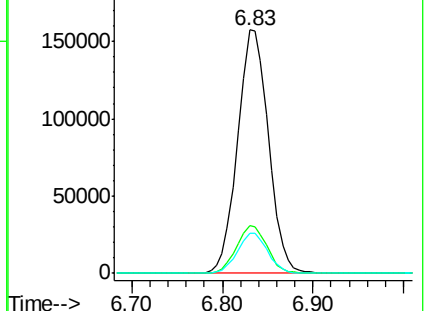
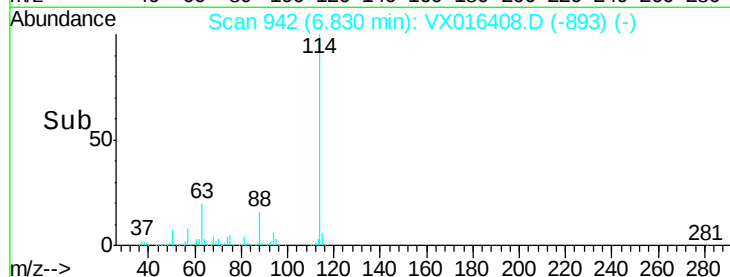
88 16.3 0.0 31.4



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: 46.376 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

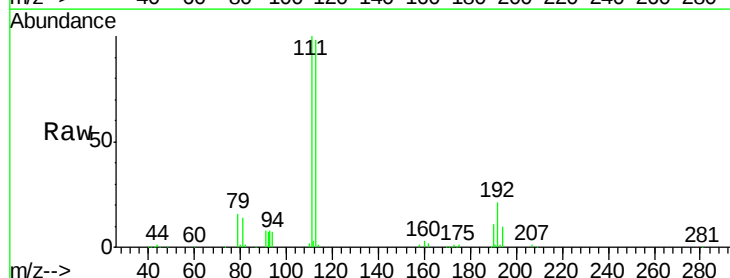
Tgt Ion:113 Resp: 109558

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

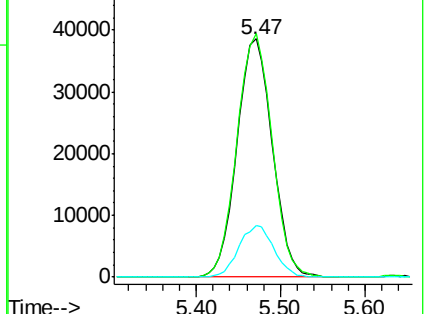
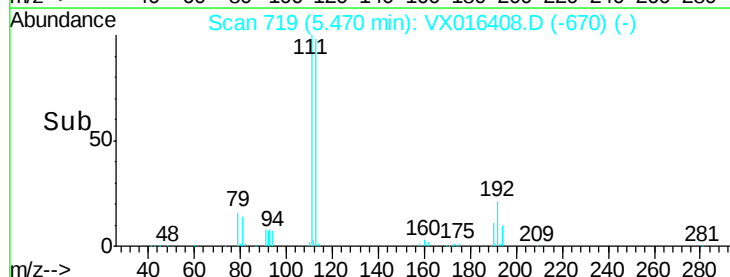
192 21.4 17.0 25.4

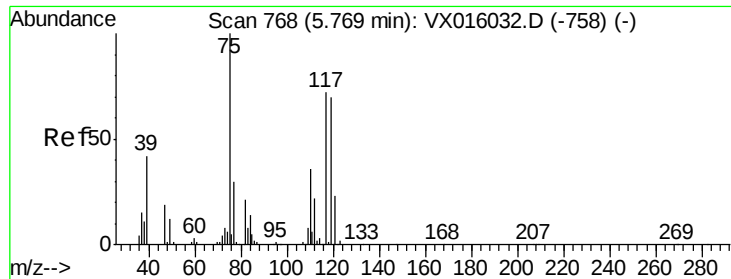


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.428 ug/l

RT: 5.63 min Scan# 745

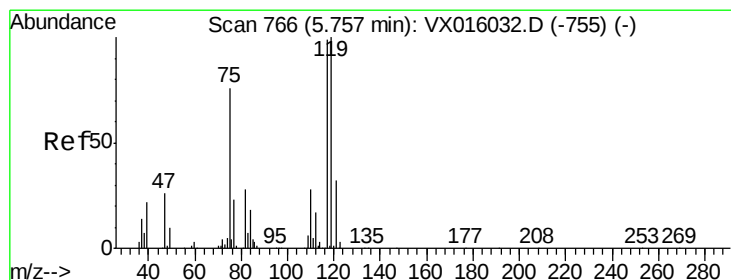
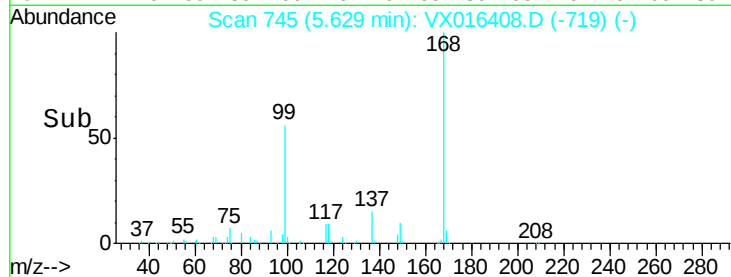
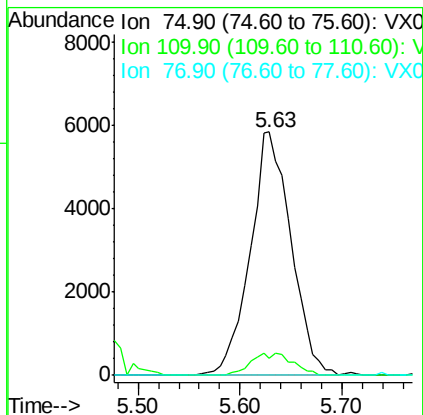
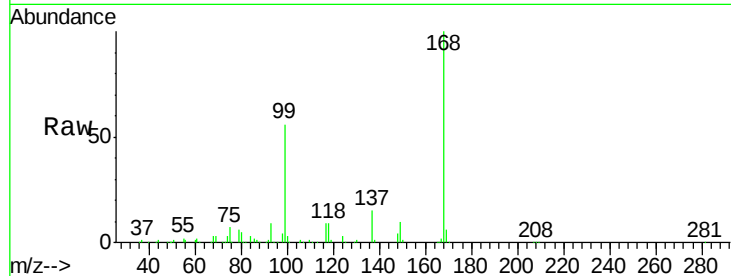
Delta R.T. -0.14 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	75	Resp:	16254
Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.1	54.1#
77	0.0	25.0	37.6#



#38

Carbon Tetrachloride

Concen: 5.855 ug/l

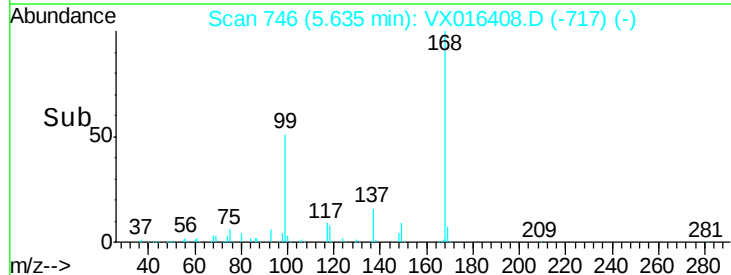
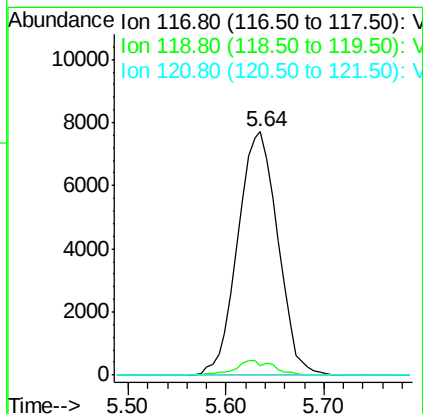
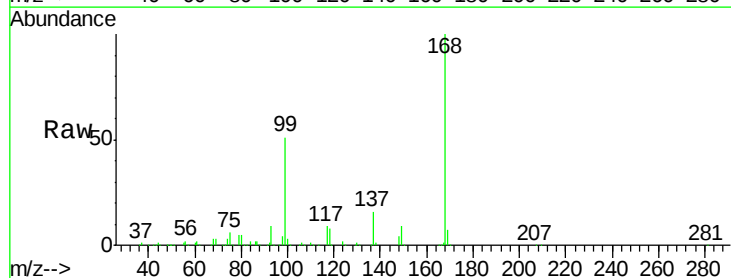
RT: 5.64 min Scan# 746

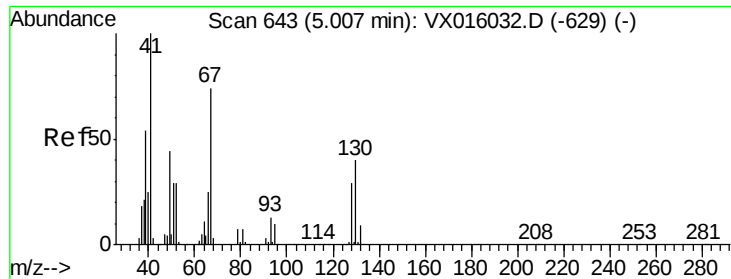
Delta R.T. -0.12 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Tgt Ion:	117	Resp:	21845
Ion	Ratio	Lower	Upper
117	100		
119	3.9	80.3	120.5#
121	0.0	25.7	38.5#

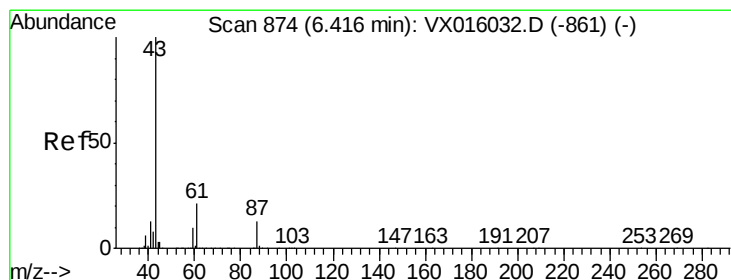
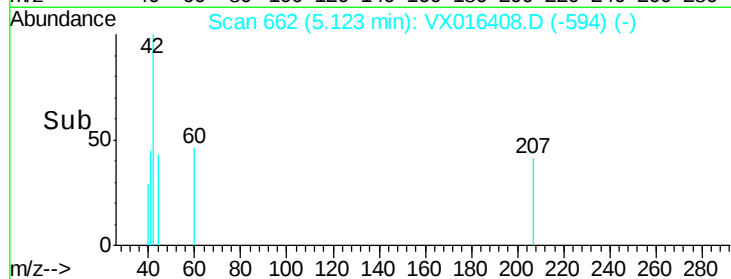
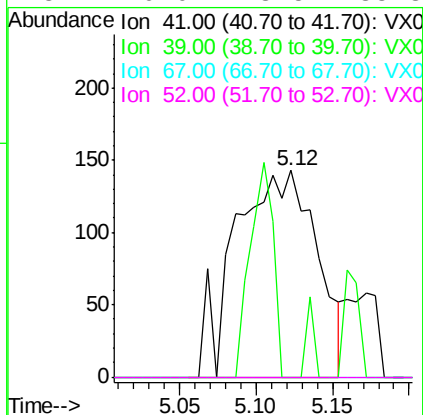
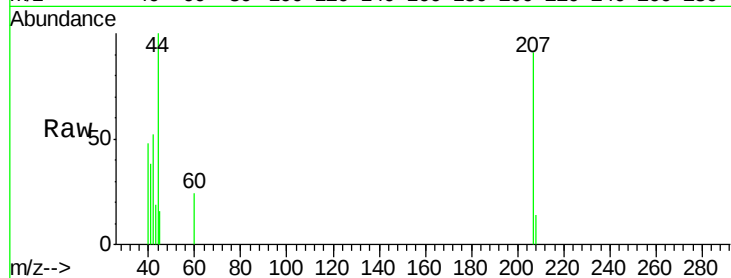




#41
Methacrylonitrile
Concen: 0.231 ug/l
RT: 5.12 min Scan# 662
Delta R.T. 0.12 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

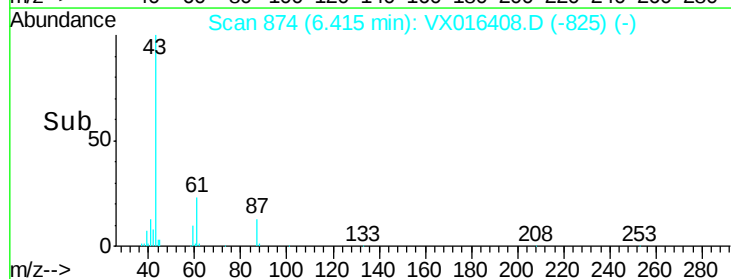
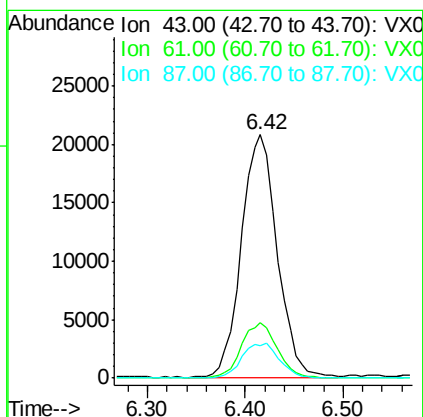
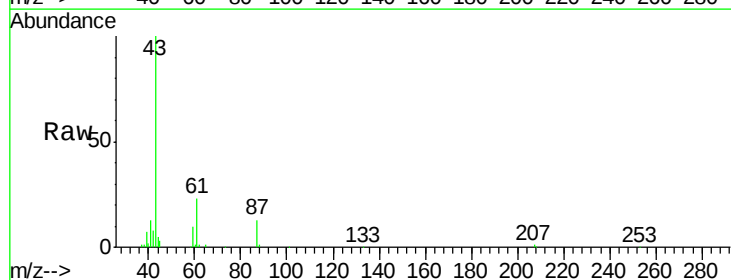
Instrument :
MSVOA_X
ClientSampled :

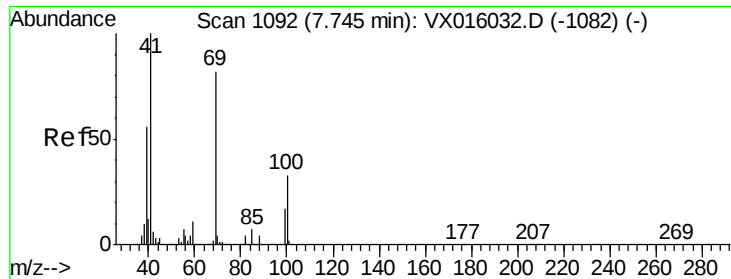
Tot Ion:	41	Resp:	530
Ion	Ratio	Lower	Upper
41	100		
39	3.8	43.2	64.8#
67	0.0	59.3	88.9#
52	0.0	23.5	35.3#



#43
Isopropyl Acetate
Concen: 7.735 ug/l
RT: 6.42 min Scan# 874
Delta R.T. -0.00 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

Tgt Ion:	43	Resp:	52505
Ion	Ratio	Lower	Upper
43	100		
61	22.9	17.0	25.4
87	15.0	11.0	16.6

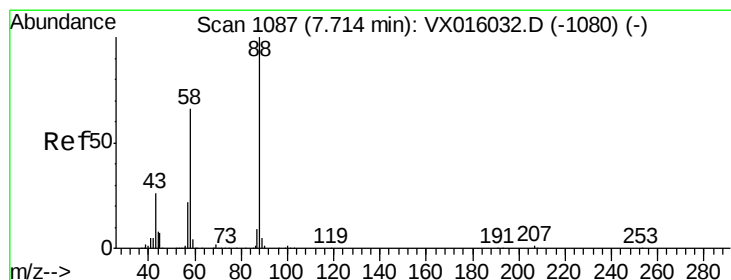
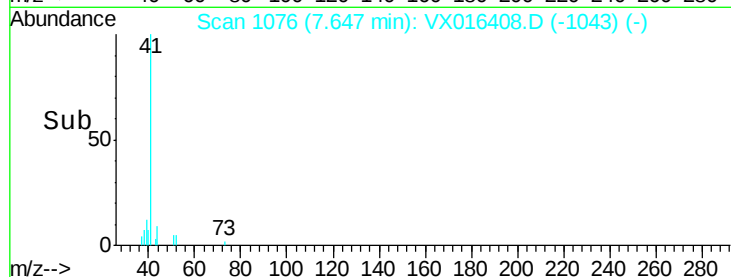
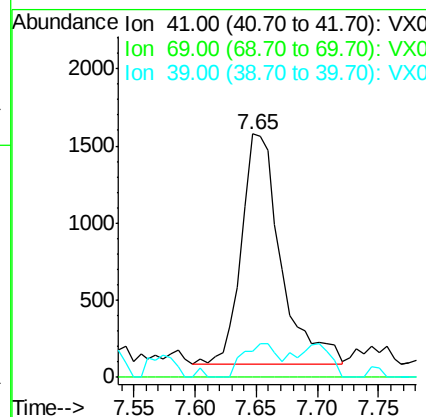
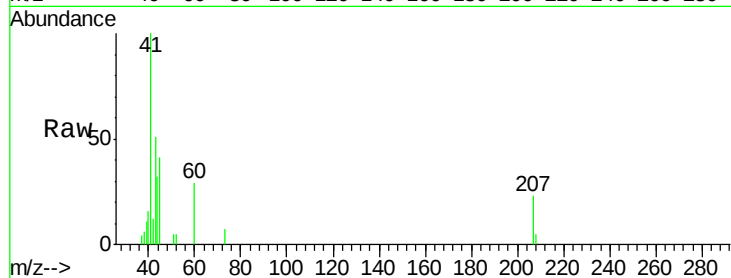




#48
Methvl methacrylate
Concen: 1.043 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.10 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

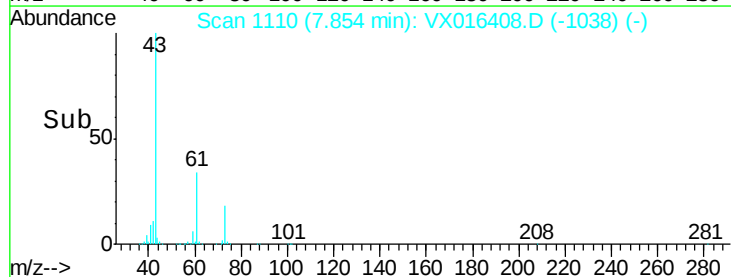
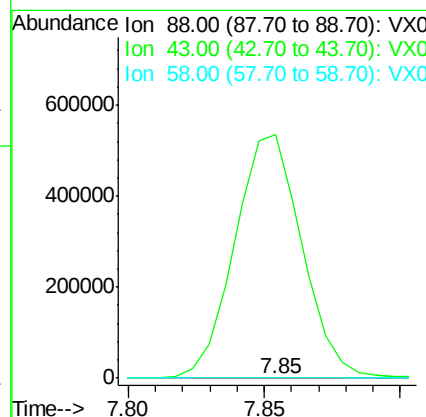
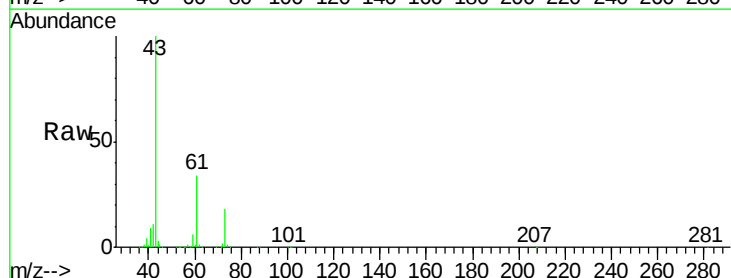
Instrument :
MSVOA_X
ClientSampleId :

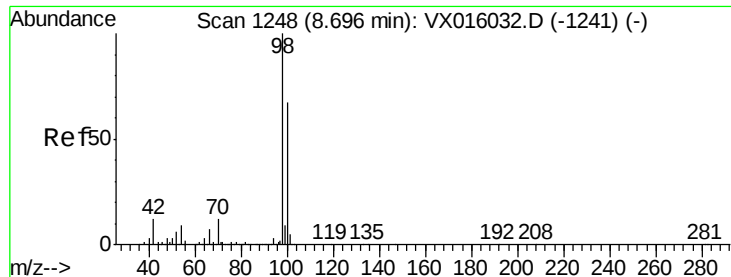
Tot Ion: 41 Resp: 3354
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.450 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.14 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

Tgt Ion: 88 Resp: 189
Ion Ratio Lower Upper
88 100
43 486788.9 25.3 37.9#
58 2205.8 55.9 83.9#





#50

Toluene-d8

Concen: 50.776 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

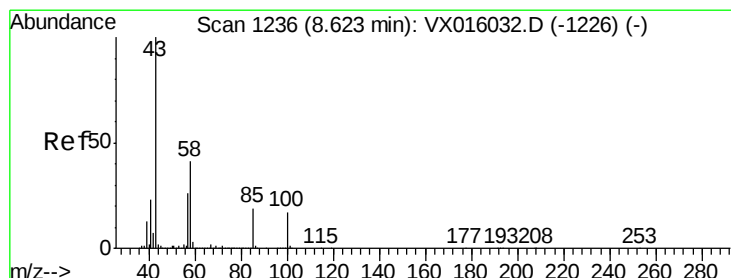
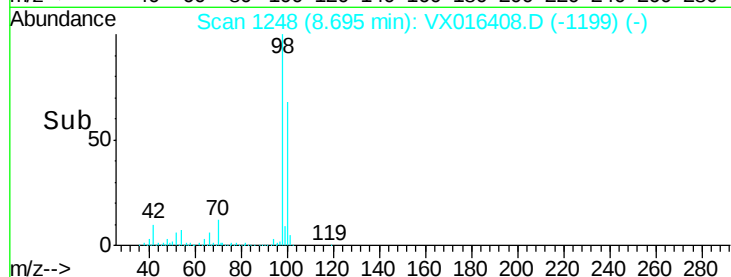
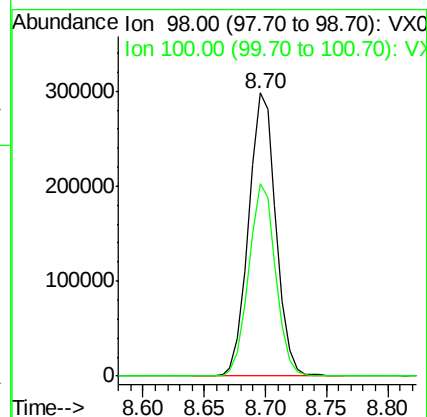
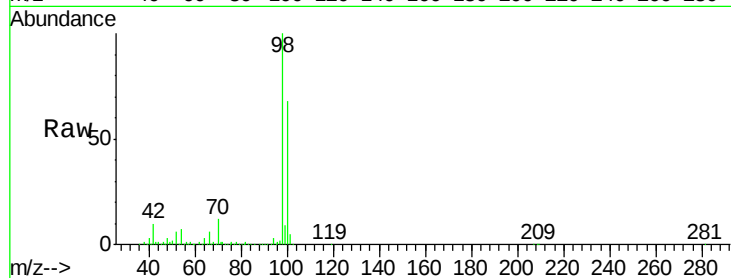
ClientSampleId :

Tot Ion: 98 Resp: 462184

Ion Ratio Lower Upper

98 100

100 67.1 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 11.362 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016408.D

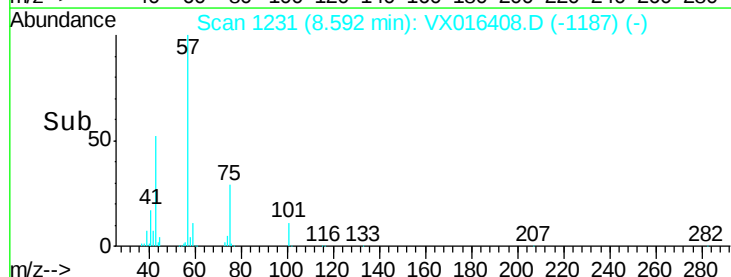
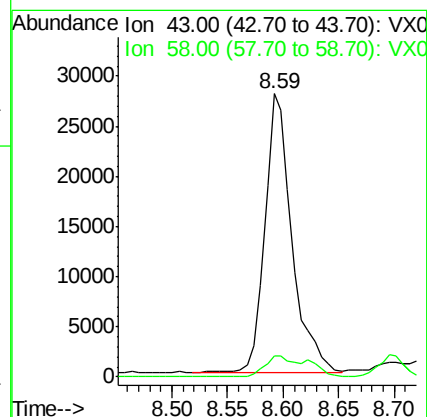
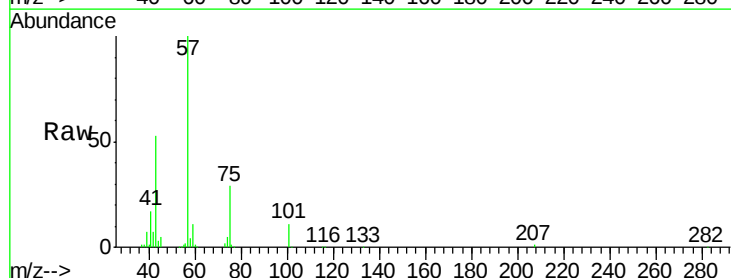
Acq: 22 May 2020 13:43

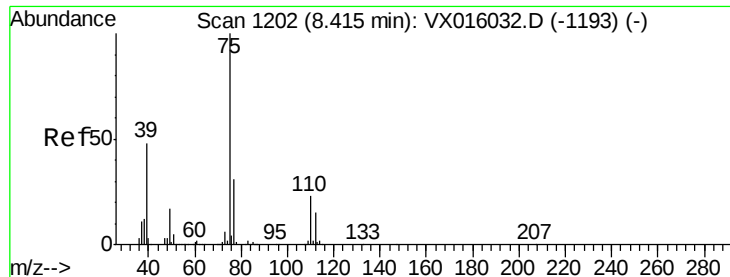
Tgt Ion: 43 Resp: 47194

Ion Ratio Lower Upper

43 100

58 8.6 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 5.252 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

ClientSampleId :

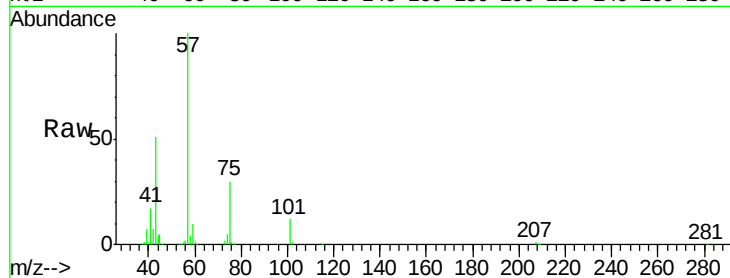
Tot Ion: 75 Resp: 24600

Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

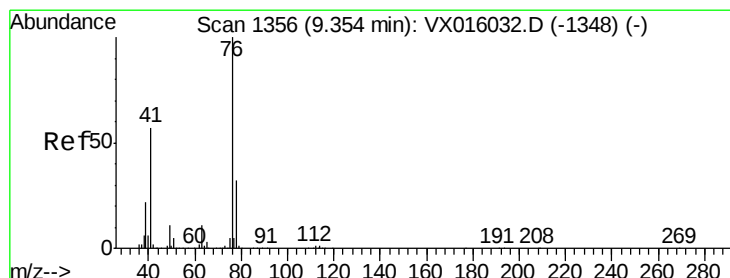
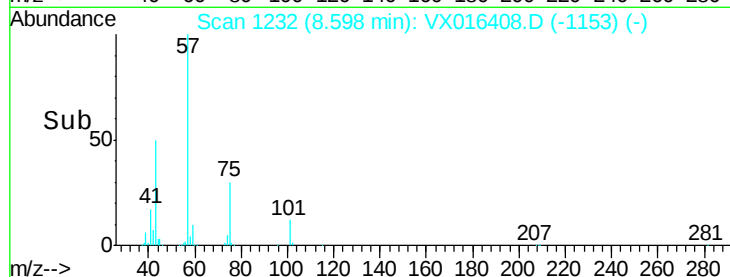
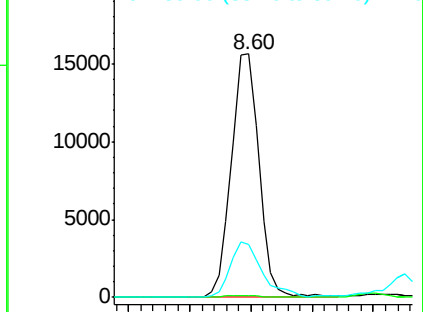
39 21.7 38.7 58.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 0.952 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016408.D

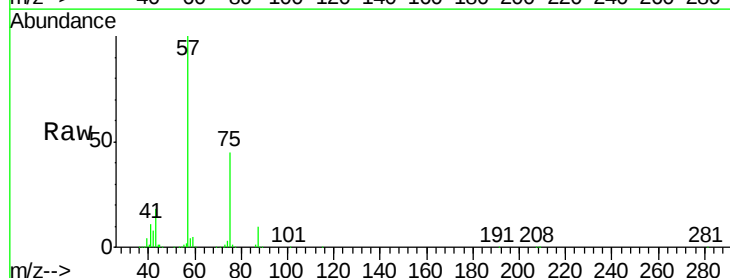
Acq: 22 May 2020 13:43

Tgt Ion: 76 Resp: 4374

Ion Ratio Lower Upper

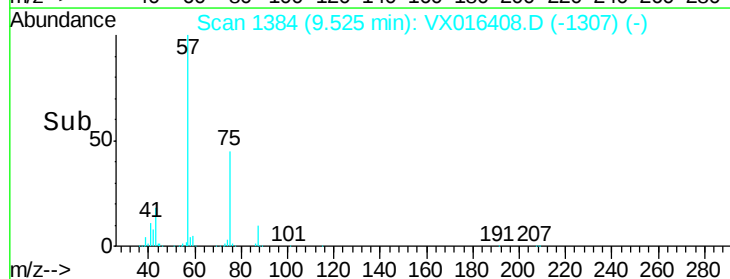
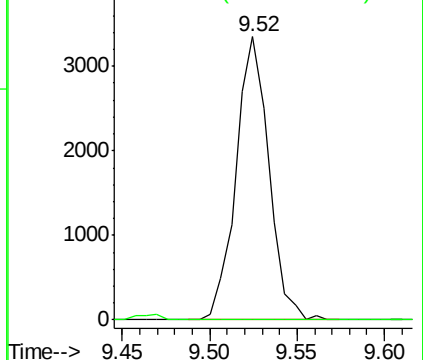
76 100

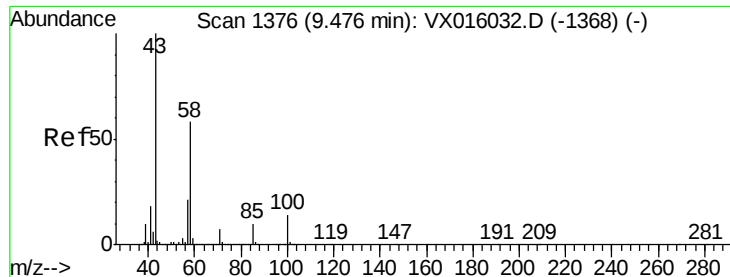
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

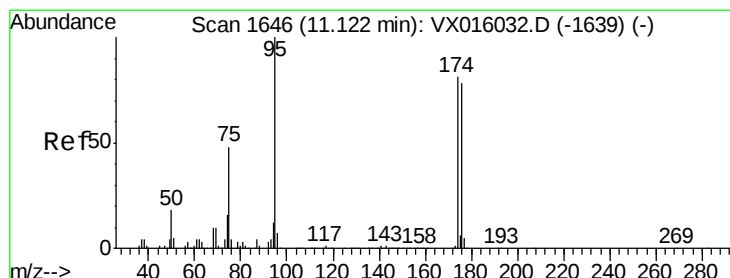
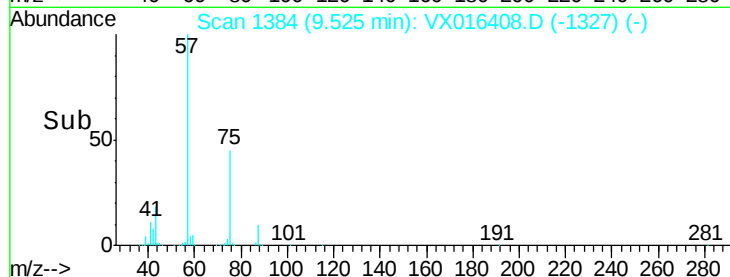
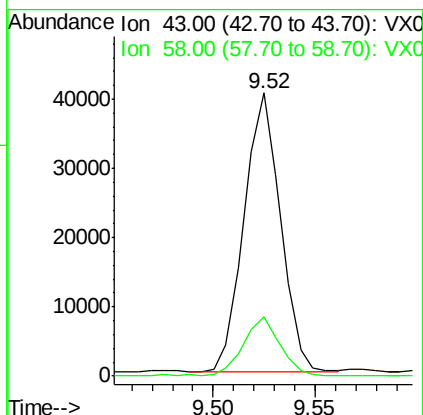
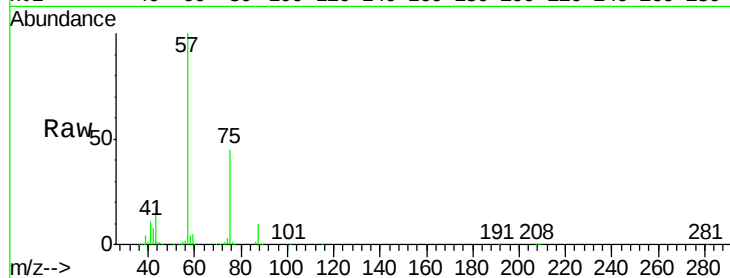




#59
2-Hexanone
Concen: 15.352 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

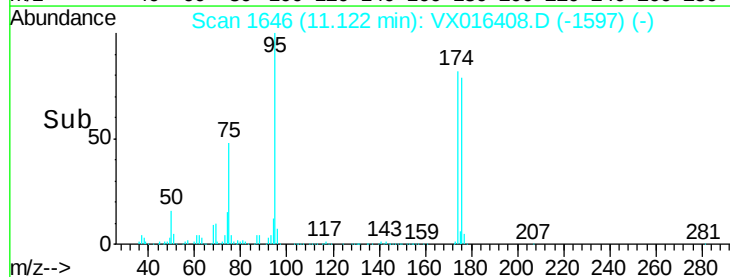
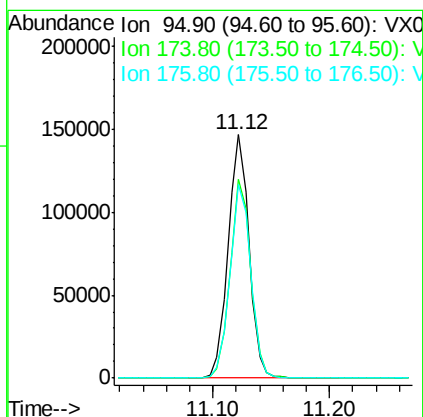
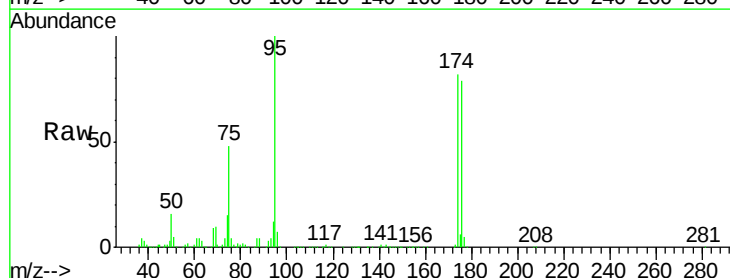
Instrument :
MSVOA_X
ClientSampleId :

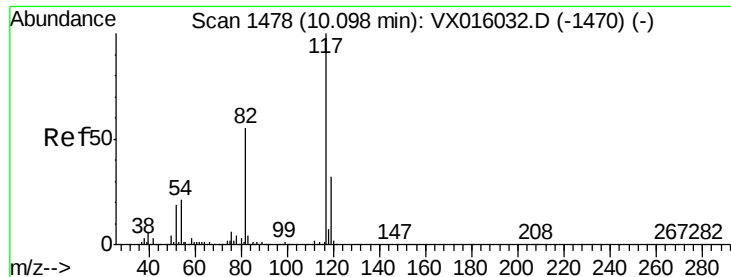
Tot Ion: 43 Resp: 50079
Ion Ratio Lower Upper
43 100
58 21.6 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 52.676 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016408.D
Acq: 22 May 2020 13:43

Tgt Ion: 95 Resp: 182369
Ion Ratio Lower Upper
95 100
174 81.2 0.0 159.4
176 80.0 0.0 157.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

ClientSampleId :

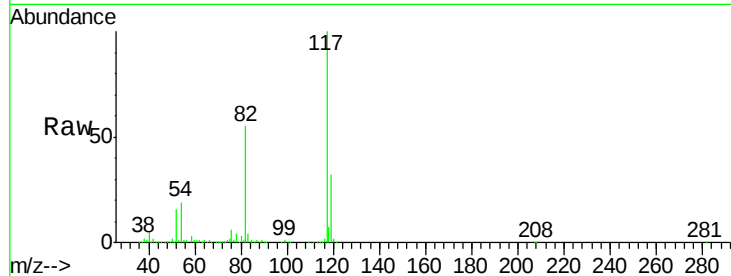
Tot Ion:117 Resp: 373429

Ion Ratio Lower Upper

117 100

82 54.6 44.4 66.6

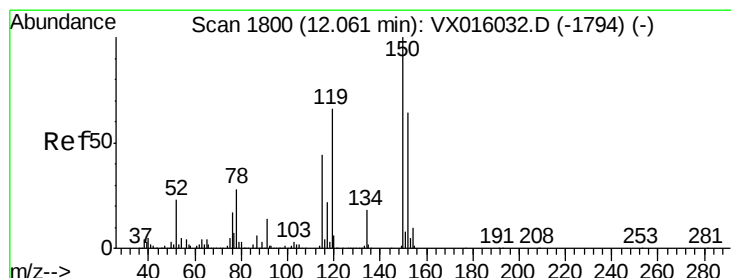
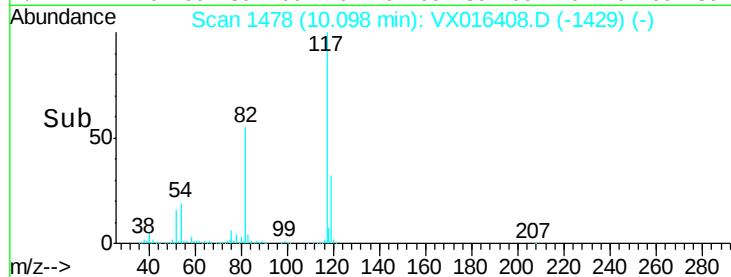
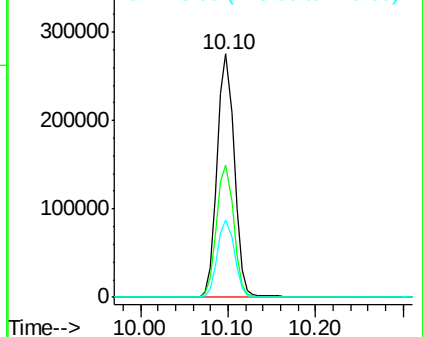
119 31.9 25.5 38.3



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: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

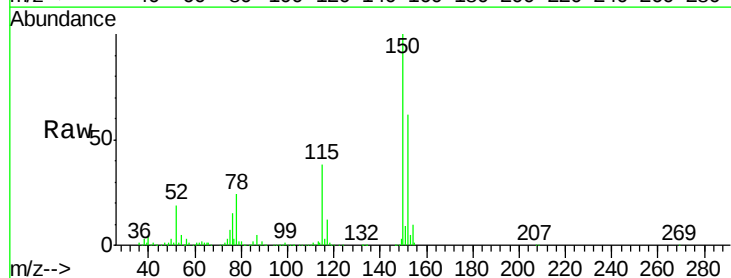
Tgt Ion:152 Resp: 184223

Ion Ratio Lower Upper

152 100

115 58.5 41.3 124.1

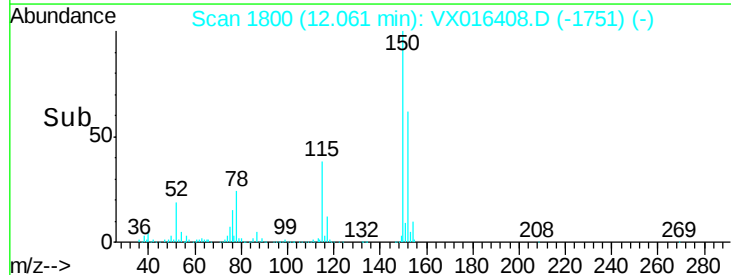
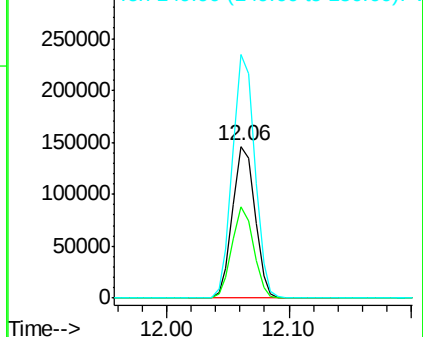
150 159.9 0.0 352.2

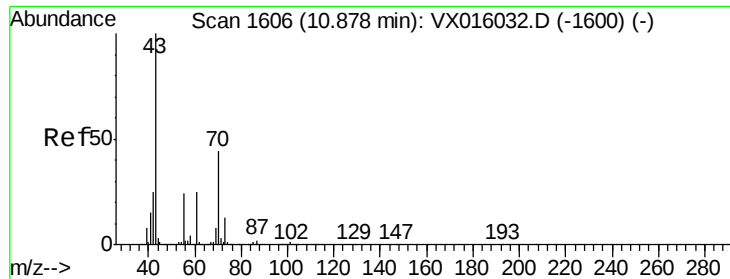


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.444 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 2774

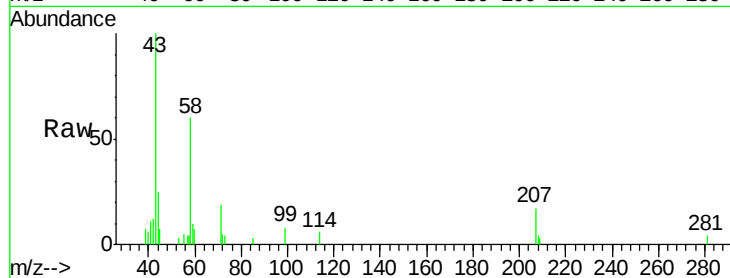
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 6.6 19.7 29.5#

61 0.0 20.9 31.3#

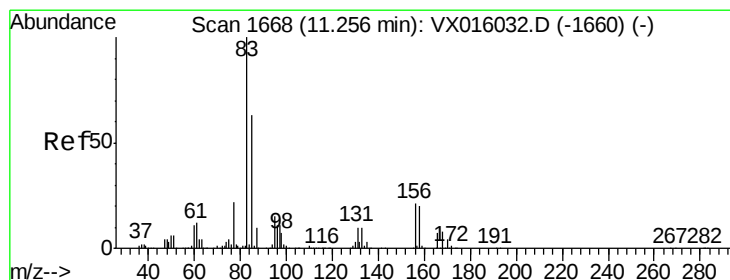
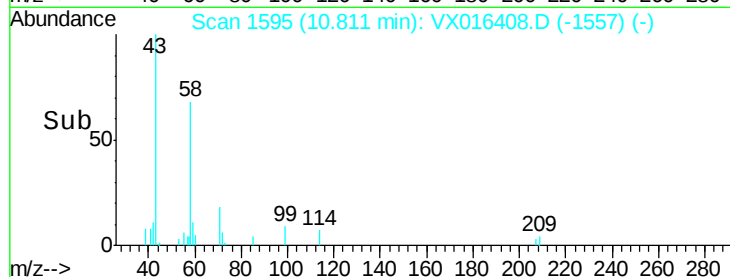
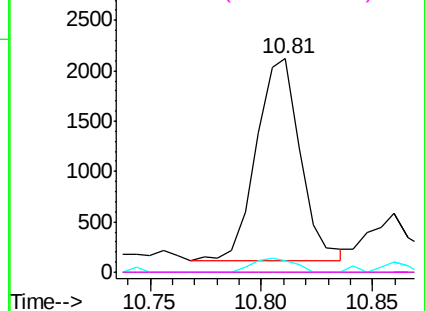


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 2.116 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

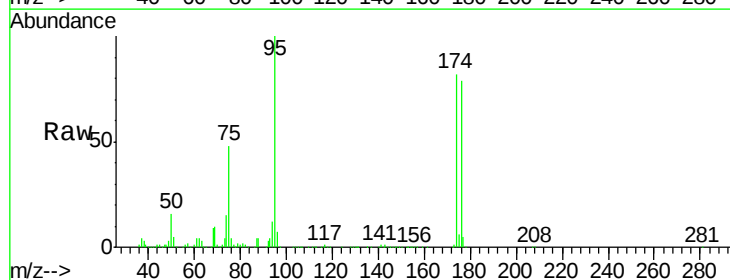
Tgt Ion: 83 Resp: 167

Ion Ratio Lower Upper

83 100

131 159.3 5.1 15.4#

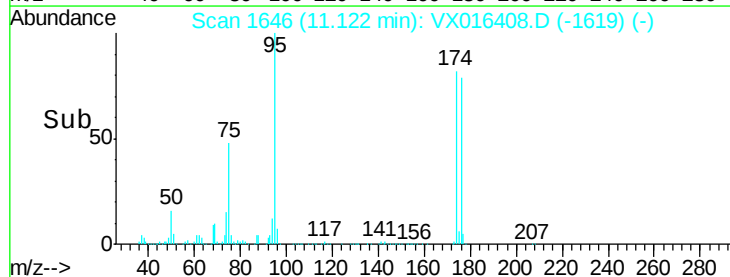
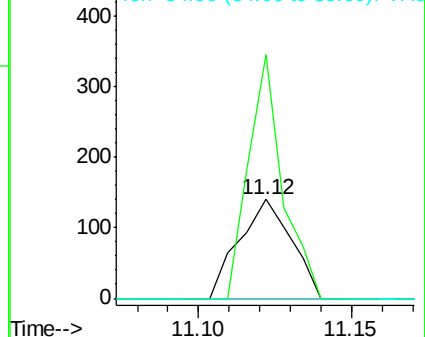
85 0.0 32.0 96.0#

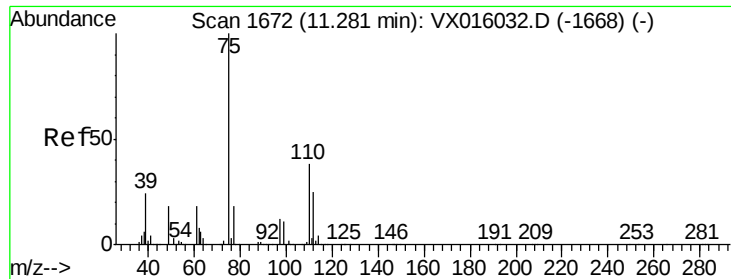


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 20.912 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

Instrument :

MSVOA_X

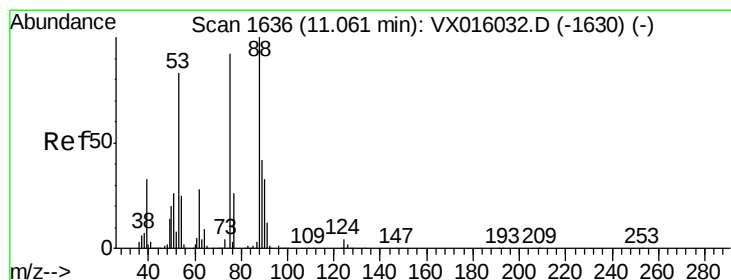
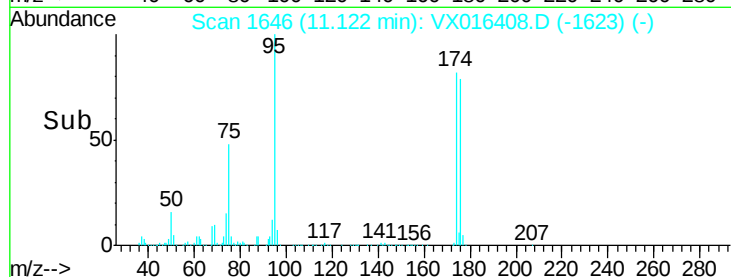
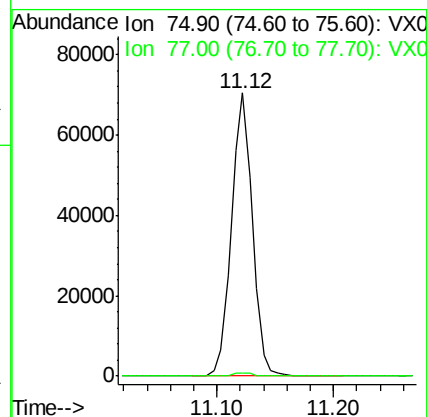
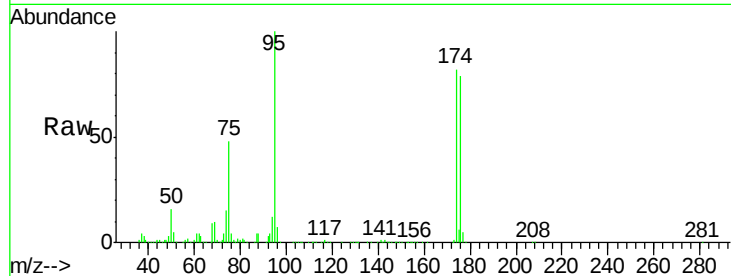
ClientSampleId :

Tot Ion: 75 Resp: 87420

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.834 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016408.D

Acq: 22 May 2020 13:43

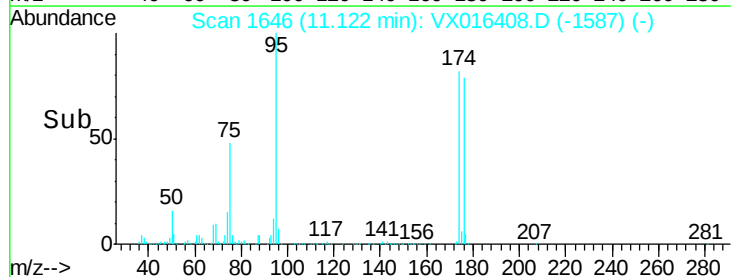
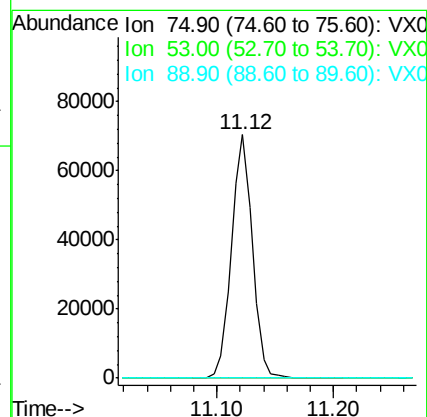
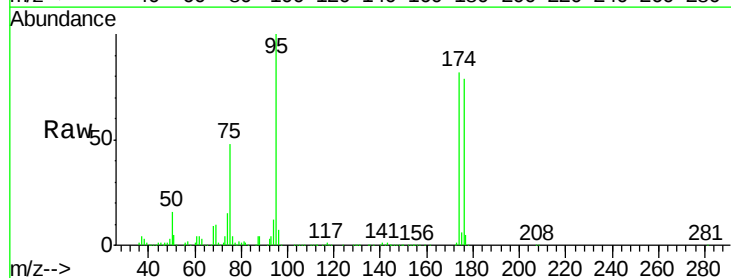
Tgt Ion: 75 Resp: 87420

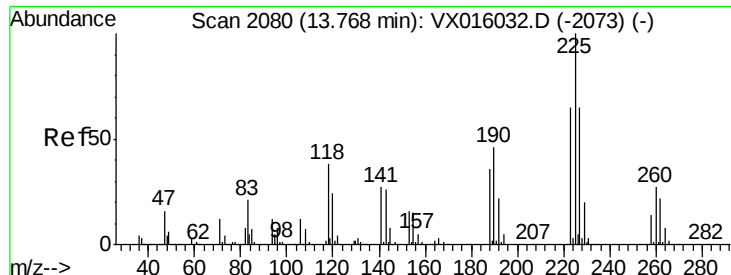
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94
 Hexachlorobutadiene
 Concen: 0.574 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX016408.D
 Acq: 22 May 2020 13:43

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
225	100		
223	73.5	32.3	96.9
227	24.5	31.8	95.4

