

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016206.D
 Acq On : 14 May 2020 02:24
 Operator : JC/SP
 Sample : L2500-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-02-051220

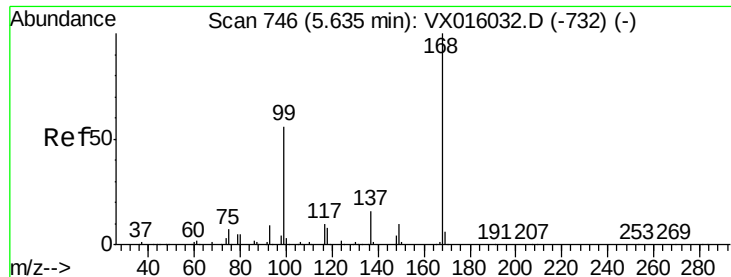
Quant Time: May 14 04:48:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	275809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	458803	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	457925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	238493	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	168126	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	
35) Dibromofluoromethane	5.47	113	135489	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	8.70	98	574545	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	11.12	95	231639	54.38	ug/l	0.00
Spiked Amount			Recovery	=	108.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	386	0.212	ug/l #	2
11) Tert butyl alcohol	3.01	59	527	0.574	ug/l #	72
13) Acrolein	2.28	56	373	0.649	ug/l #	13
16) Acetone	2.42	43	14588	9.008	ug/l	99
17) Carbon Disulfide	2.55	76	1465	Below Cal	#	81
18) Methyl Acetate	2.75	43	3583	0.900	ug/l	97
20) Methylene Chloride	2.84	84	4714	1.412	ug/l	88
25) 2-Butanone	4.65	43	2448	0.938	ug/l #	88
29) Tetrahydrofuran	5.10	42	1027	0.594	ug/l #	56
36) 1,1-Dichloropropene	5.63	75	20399	4.517	ug/l #	49
38) Carbon Tetrachloride	5.63	117	26158	5.698	ug/l #	14
43) Isopropyl Acetate	6.42	43	77493	9.279	ug/l	99
48) Methyl methacrylate	7.85	41	116418	29.417	ug/l #	41
49) 1,4-Dioxane	7.75	88	20	0.211	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	71823	14.053	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	34289	5.949	ug/l #	55
57) 1,3-Dichloropropane	9.52	76	5713	1.010	ug/l #	46
59) 2-Hexanone	9.52	43	72865	18.154	ug/l #	50
74) N-amyl acetate	10.80	43	4227	0.522	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.12	83	186	2.106	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	113636	20.997	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	113636	50.038	ug/l #	13
94) Hexachlorobutadiene	13.76	225	260	0.628	ug/l	71

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

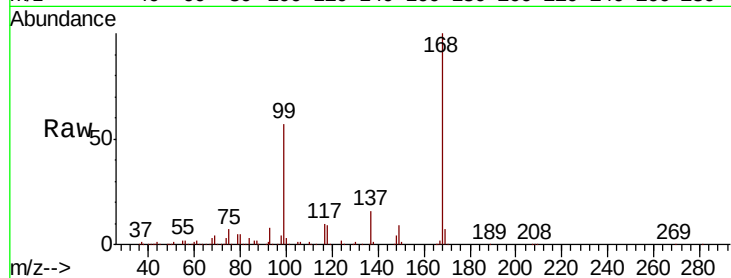
OK-02-051220

Tot Ion:168 Resp: 275809

Ion Ratio Lower Upper

168 100

99 56.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

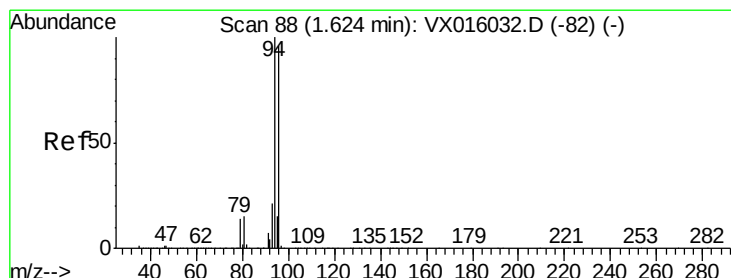
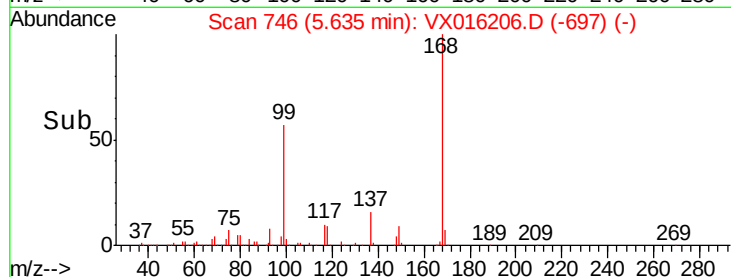
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.212 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016206.D

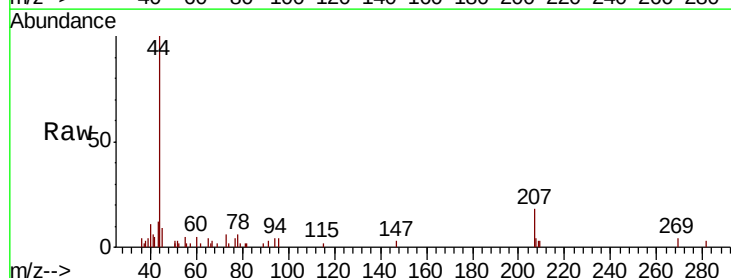
Acq: 14 May 2020 02:24

Tgt Ion: 94 Resp: 386

Ion Ratio Lower Upper

94 100

96 0.0 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

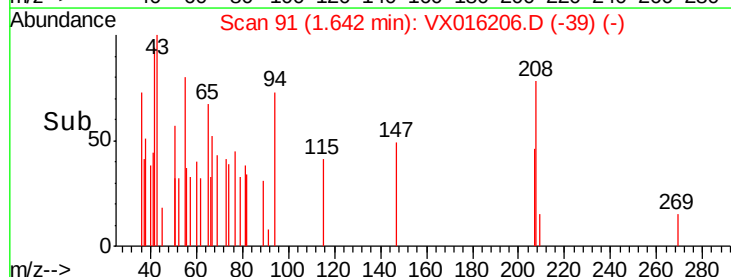
150

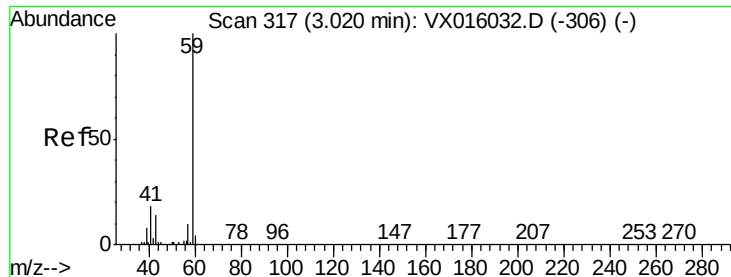
100

50

0

Time-->



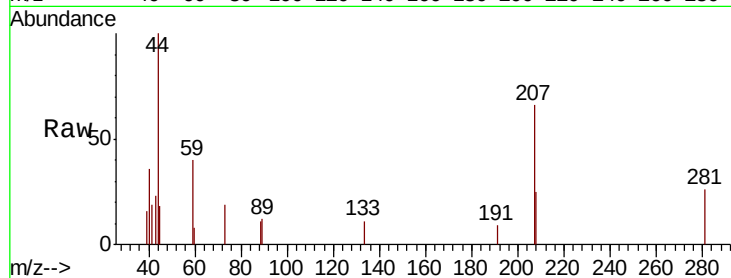


#11

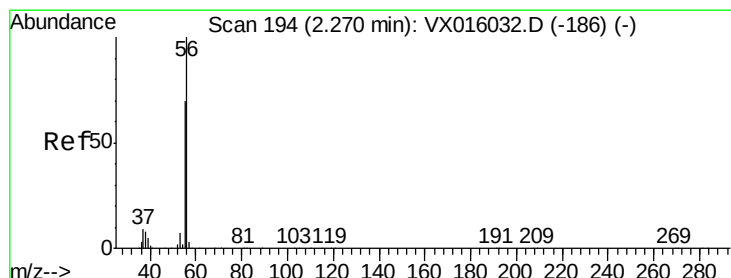
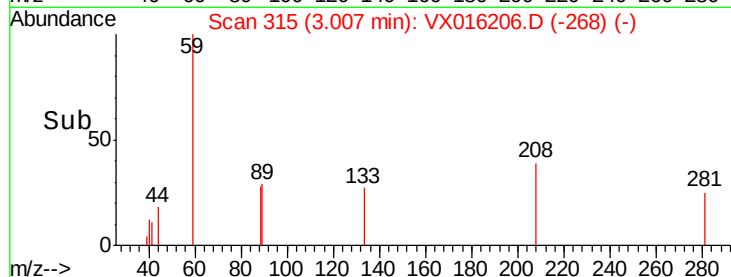
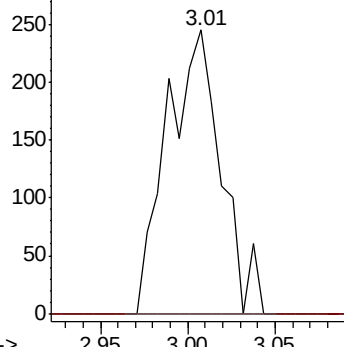
Tert butyl alcohol
Concen: 0.574 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016206.D
Acq: 14 May 2020 02:24

Instrument :
MSVOA_X
ClientSampleId :
OK-02-051220

Tot Ion: 59 Resp: 527
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



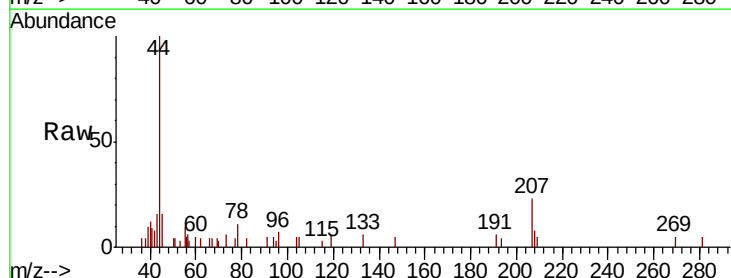
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



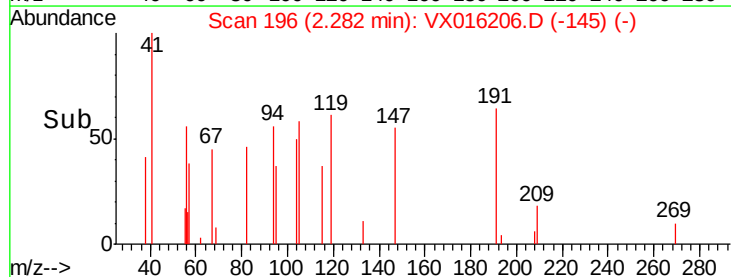
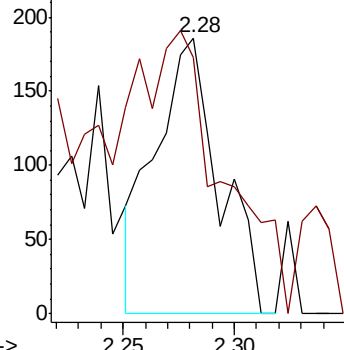
#13

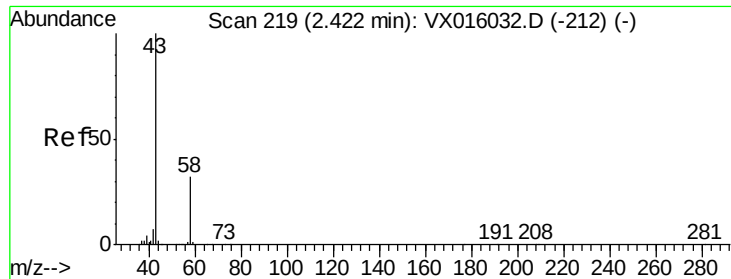
Acrolein
Concen: 0.649 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX016206.D
Acq: 14 May 2020 02:24

Tgt Ion: 56 Resp: 373
Ion Ratio Lower Upper
56 100
55 142.1 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 9.008 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

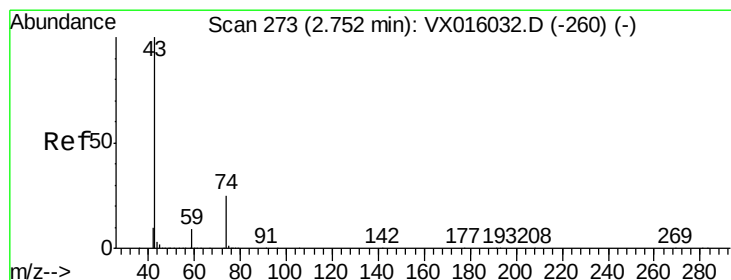
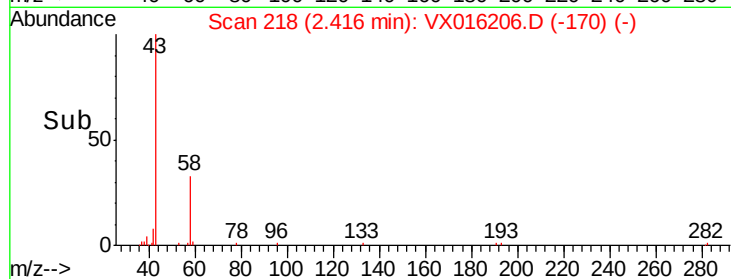
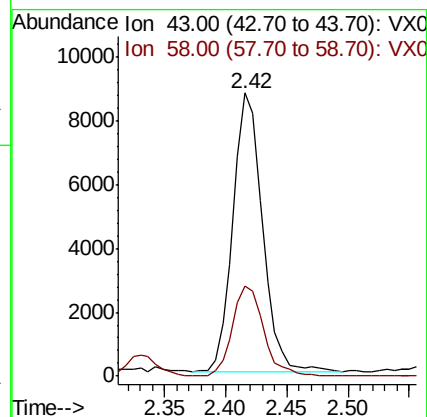
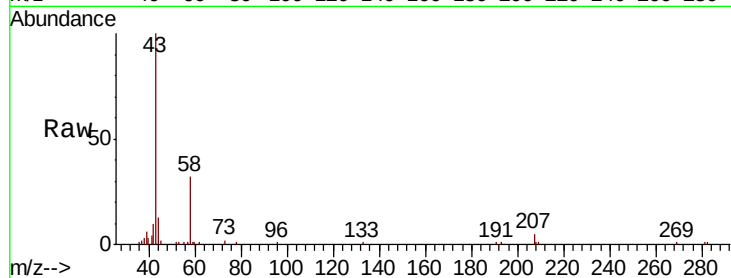
OK-02-051220

Tot Ion: 43 Resp: 14588

Ion Ratio Lower Upper

43 100

58 32.5 25.4 38.0



#18

Methyl Acetate

Concen: 0.900 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX016206.D

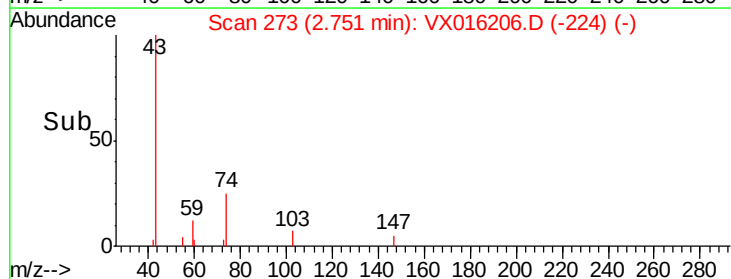
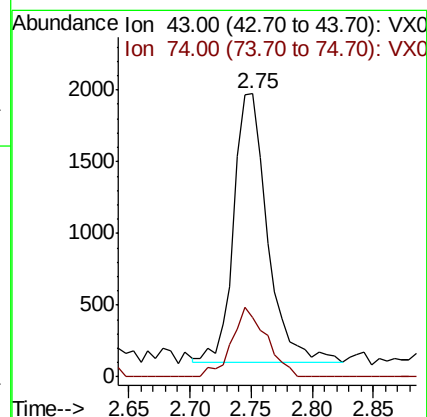
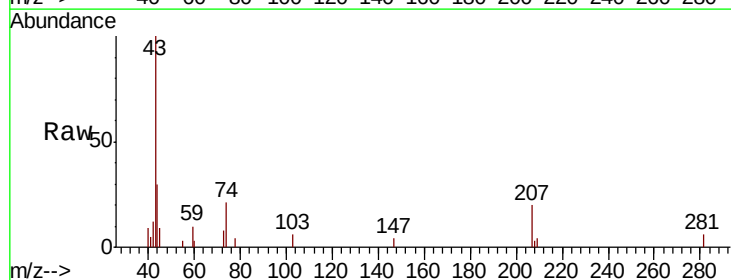
Acq: 14 May 2020 02:24

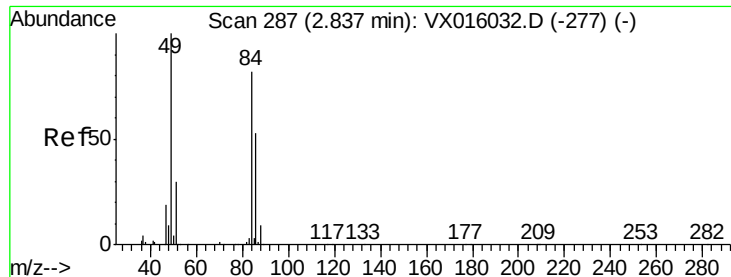
Tgt Ion: 43 Resp: 3583

Ion Ratio Lower Upper

43 100

74 26.7 20.2 30.2

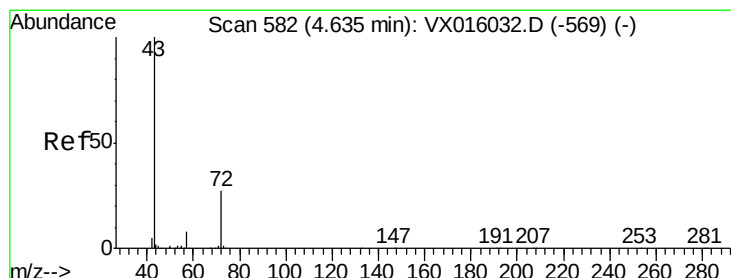
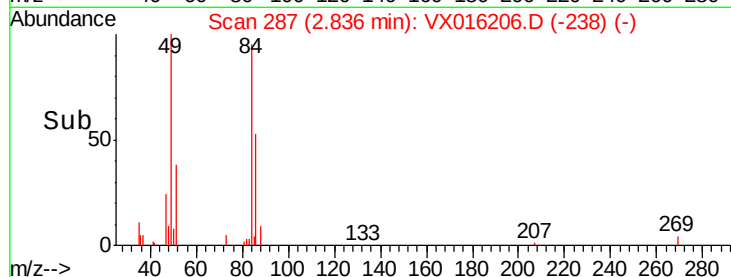
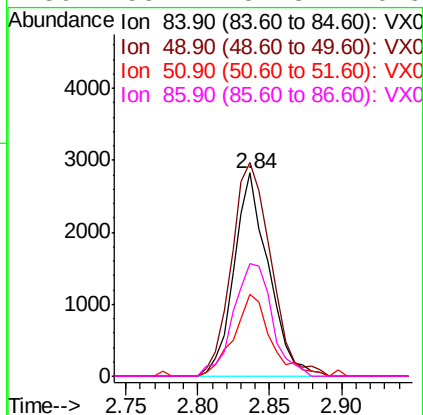
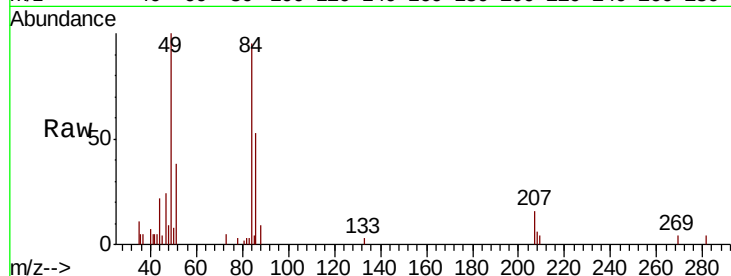




#20
Methylene Chloride
Concen: 1.412 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016206.D
Acq: 14 May 2020 02:24

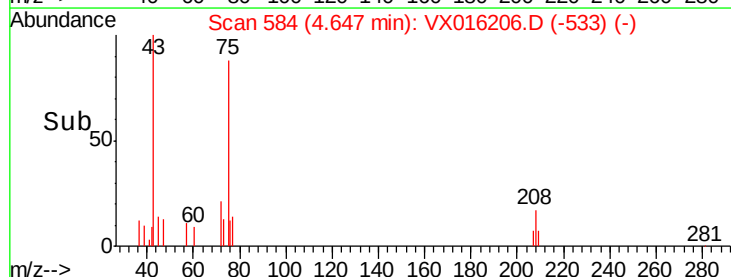
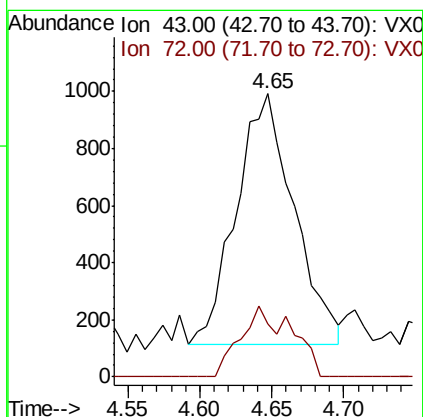
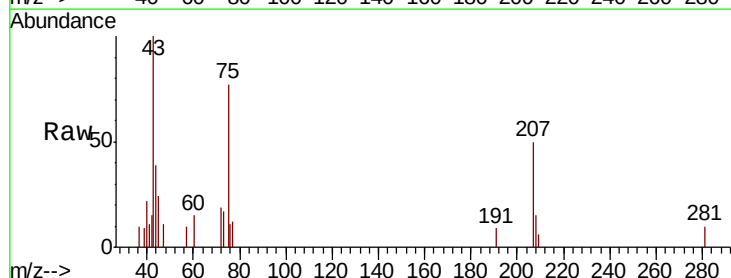
Instrument :
MSVOA_X
ClientSampleId :
OK-02-051220

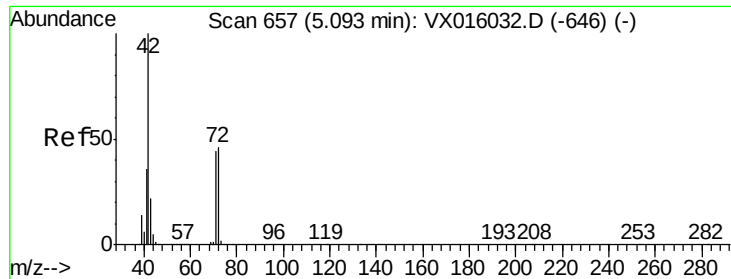
Tot Ion:	84	Resp:	4714
Ion	Ratio	Lower	Upper
84	100		
49	105.2	97.3	145.9
51	40.5	29.3	43.9
86	55.4	51.3	76.9



#25
2-Butanone
Concen: 0.938 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX016206.D
Acq: 14 May 2020 02:24

Tgt Ion:	43	Resp:	2448
Ion	Ratio	Lower	Upper
43	100		
72	21.2	21.8	32.8#





#29

Tetrahydrofuran

Concen: 0.594 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

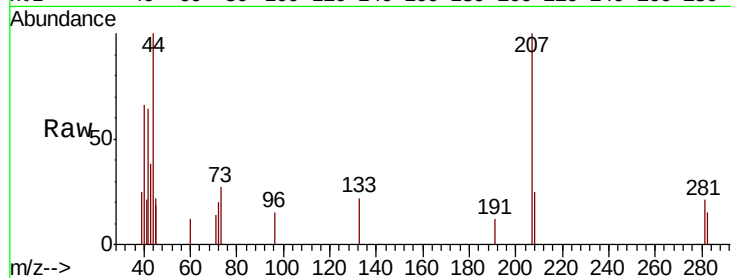
Tot Ion: 42 Resp: 1027

Ion Ratio Lower Upper

42 100

72 13.8 37.1 55.7#

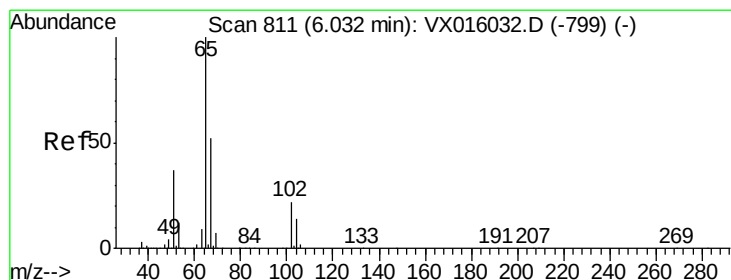
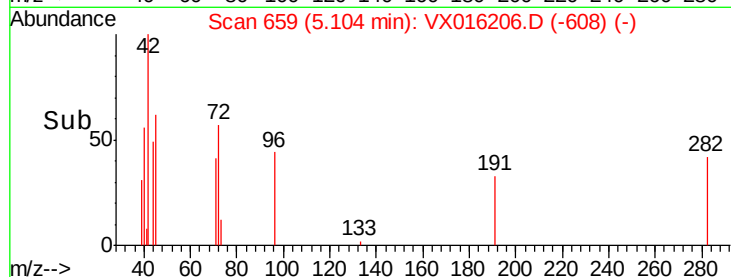
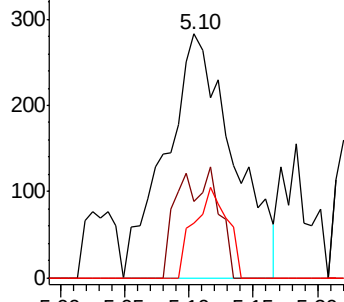
71 18.3 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.324 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016206.D

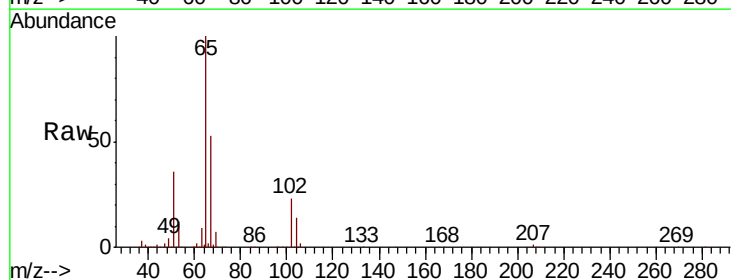
Acq: 14 May 2020 02:24

Tgt Ion: 65 Resp: 168126

Ion Ratio Lower Upper

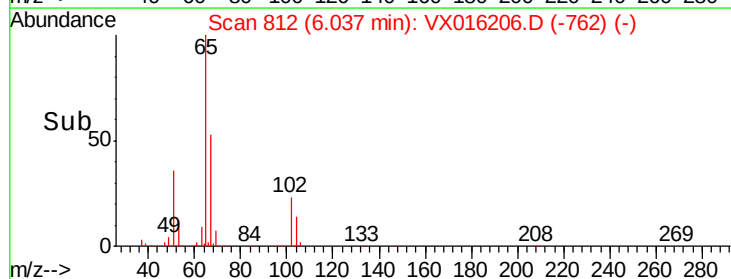
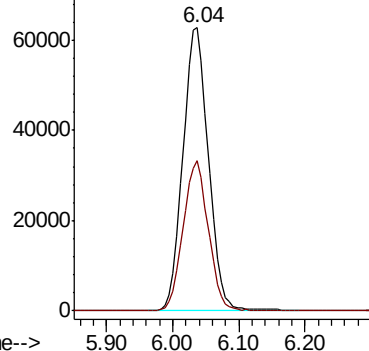
65 100

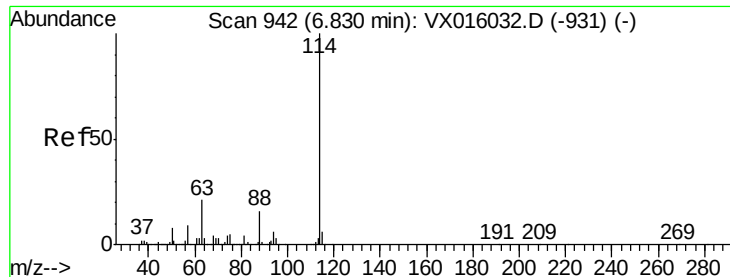
67 52.3 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

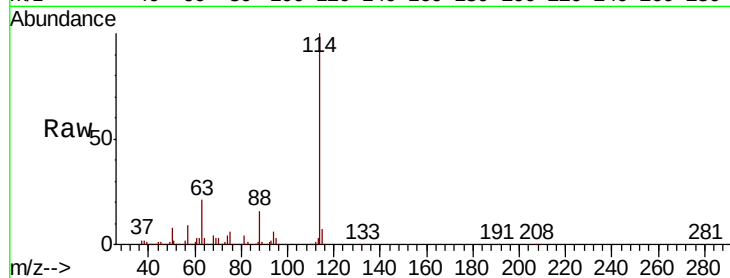
Tot Ion:114 Resp: 458803

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

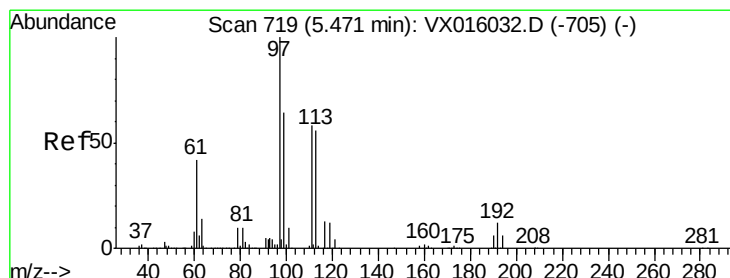
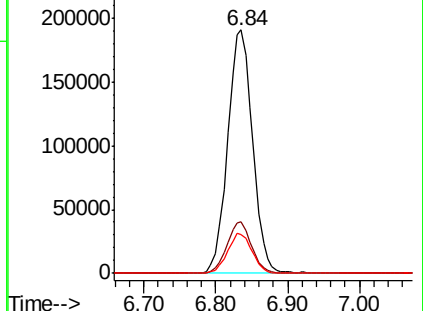
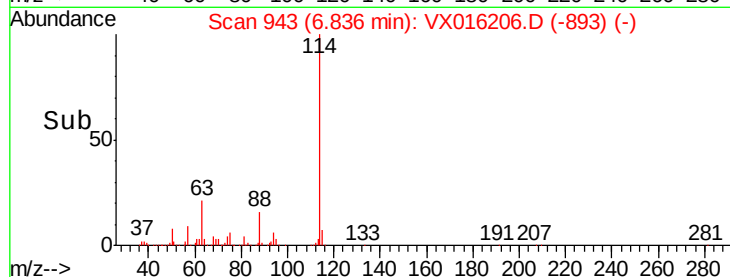
88 16.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.612 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

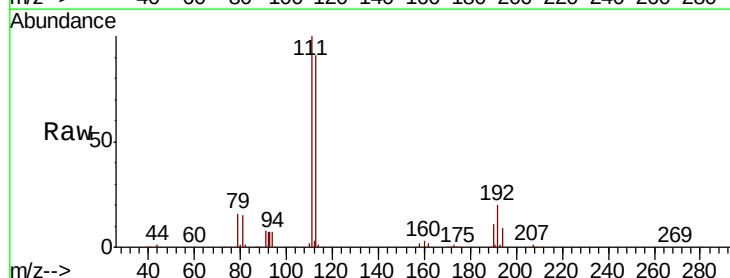
Tgt Ion:113 Resp: 135489

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

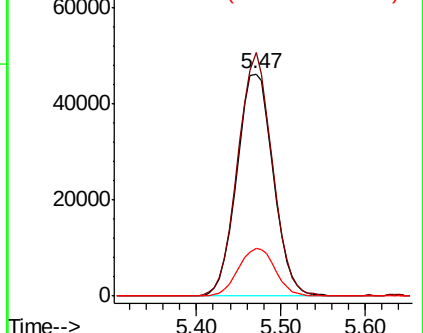
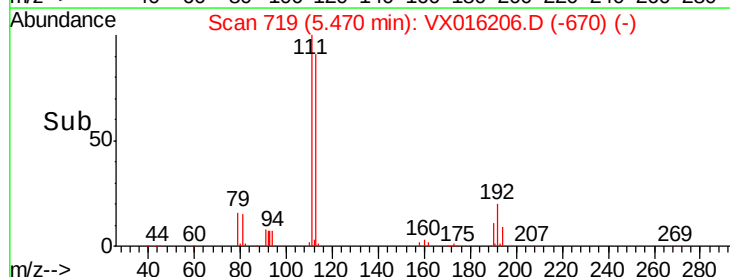
192 21.8 17.0 25.4

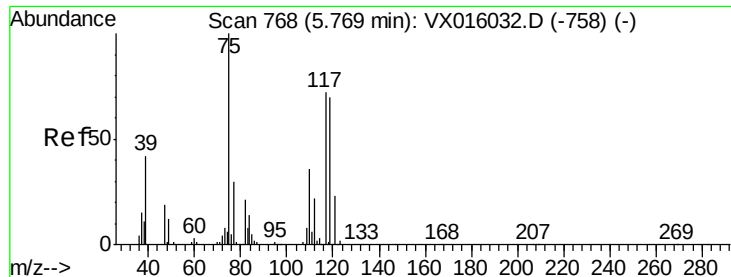


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.517 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

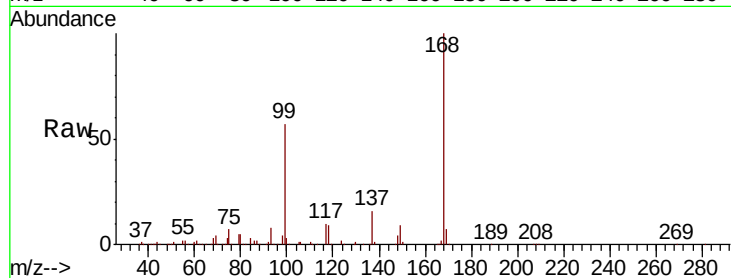
Tot Ion: 75 Resp: 20399

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.1#

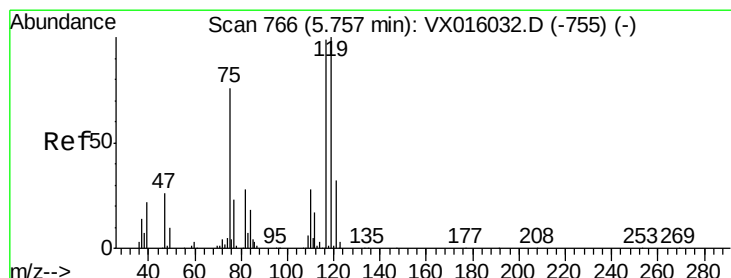
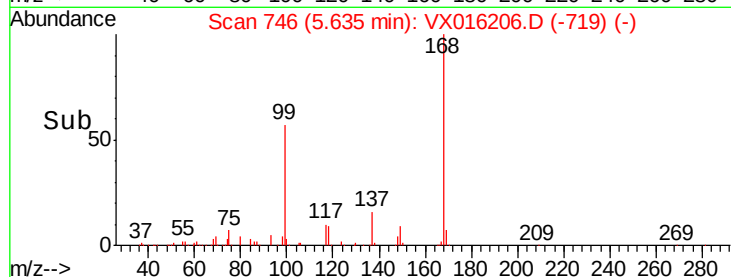
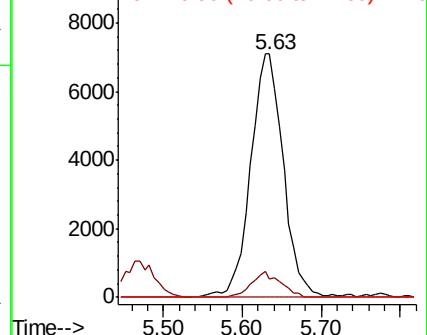
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.698 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

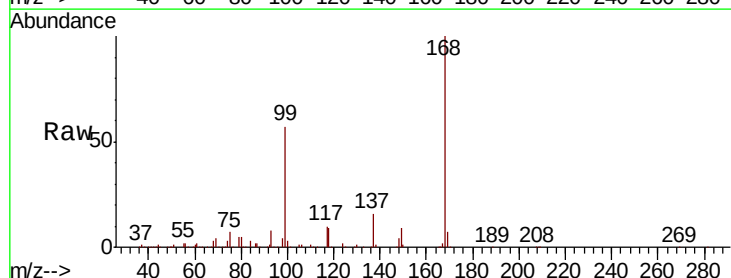
Tgt Ion: 117 Resp: 26158

Ion Ratio Lower Upper

117 100

119 4.6 80.3 120.5#

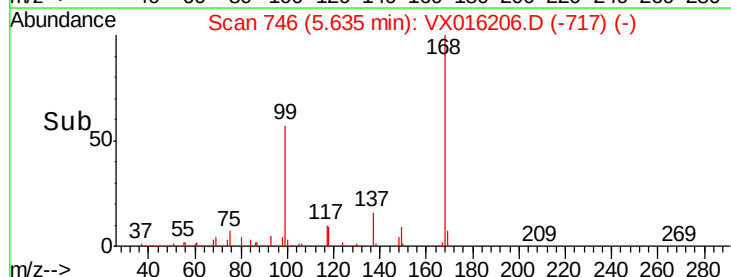
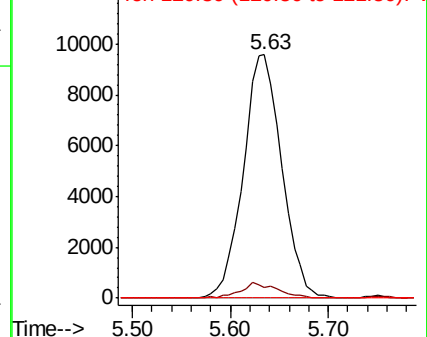
121 0.0 25.7 38.5#

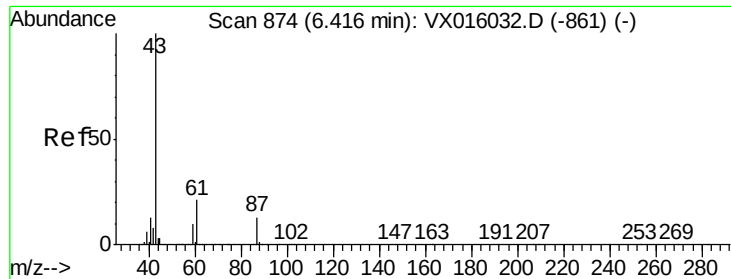


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 9.279 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

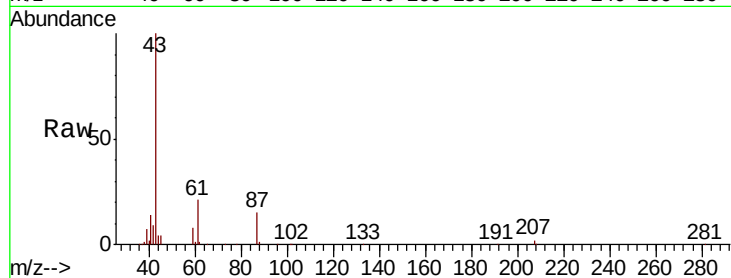
Tot Ion: 43 Resp: 77493

Ion Ratio Lower Upper

43 100

61 21.8 17.0 25.4

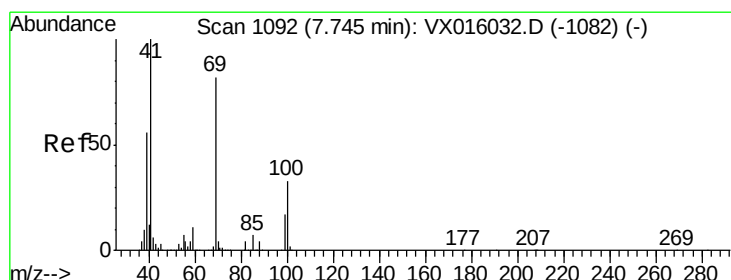
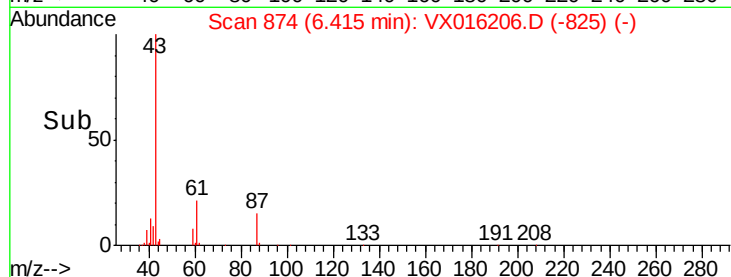
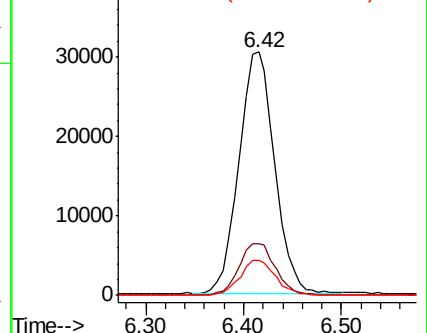
87 14.5 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 29.417 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

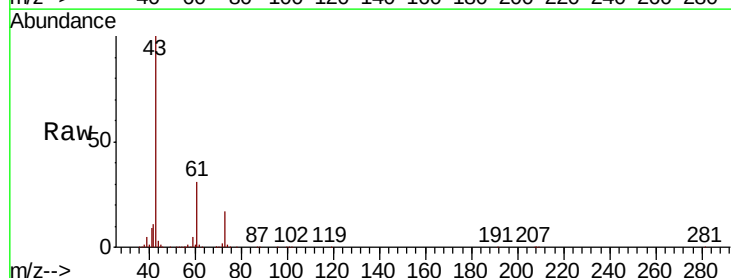
Tgt Ion: 41 Resp: 116418

Ion Ratio Lower Upper

41 100

69 0.2 67.8 101.6#

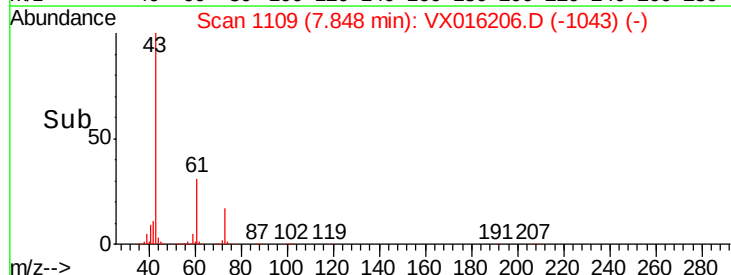
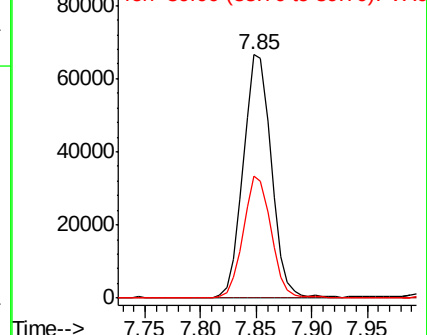
39 50.1 44.6 67.0

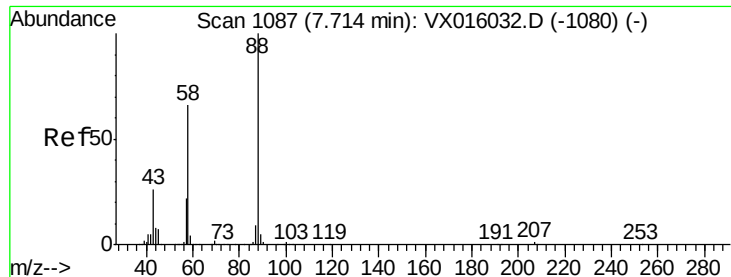


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.211 ug/l

RT: 7.75 min Scan# 1093

Delta R.T. 0.04 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

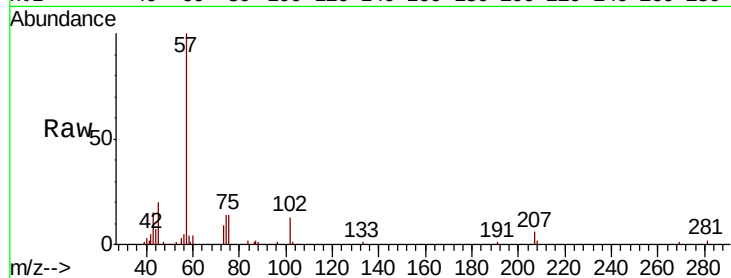
Tot Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

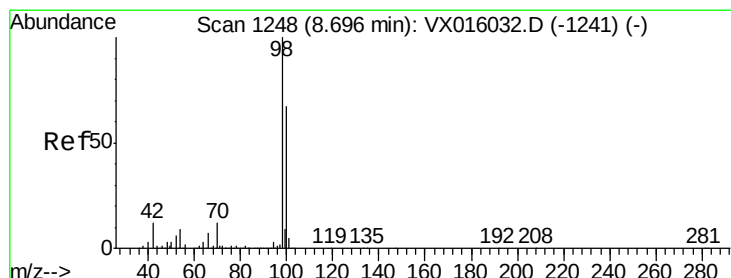
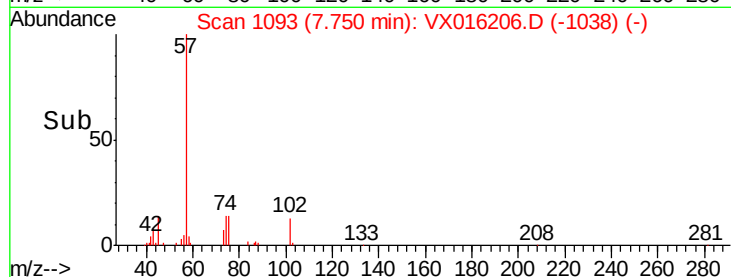
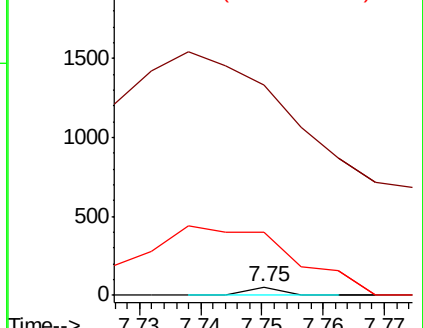
58 3745.0 55.9 83.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.300 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016206.D

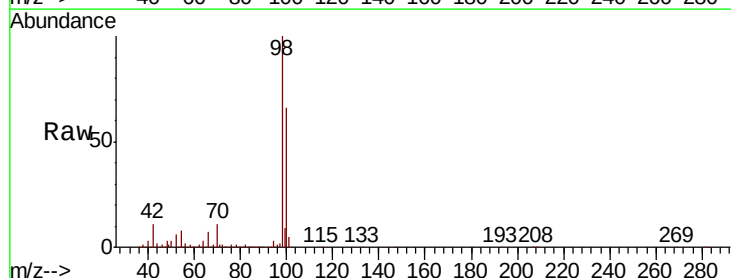
Acq: 14 May 2020 02:24

Tgt Ion: 98 Resp: 574545

Ion Ratio Lower Upper

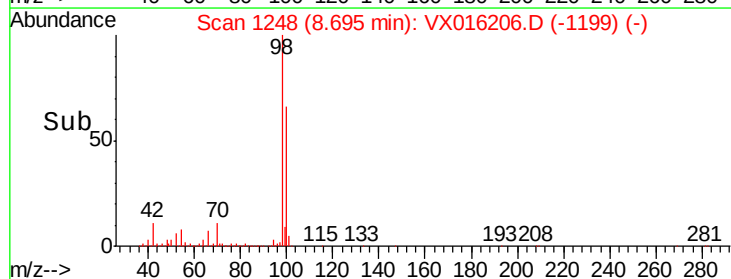
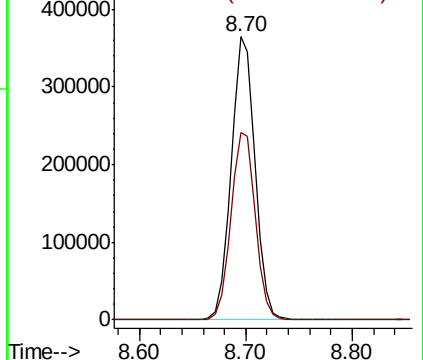
98 100

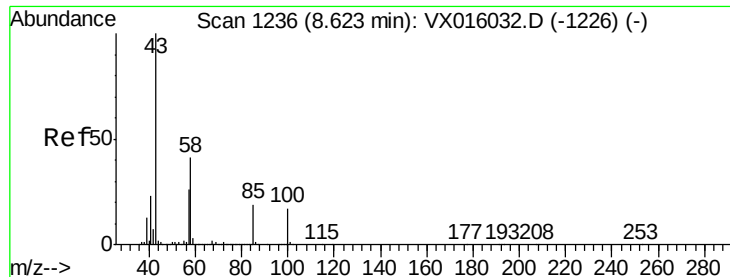
100 67.6 53.7 80.5



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: 14.053 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

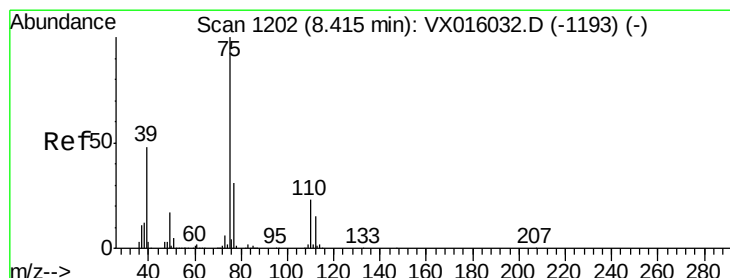
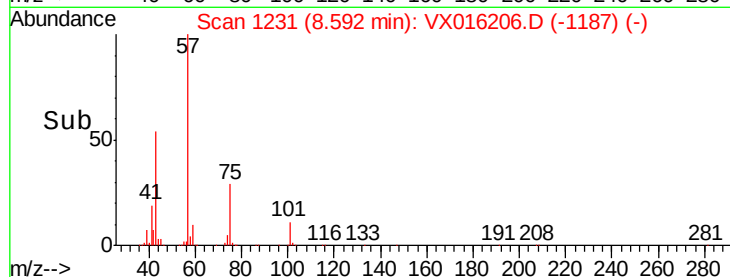
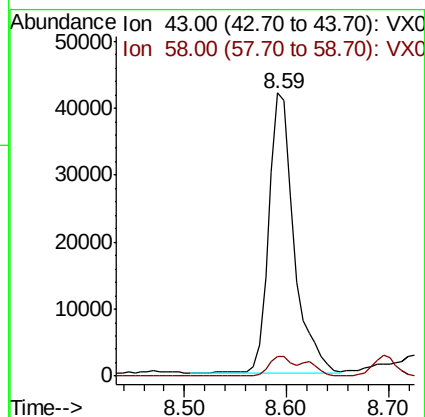
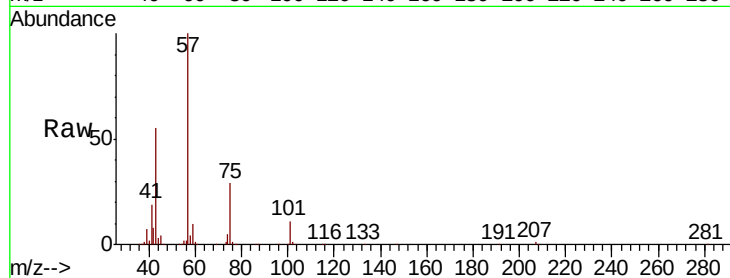
OK-02-051220

Tot Ion: 43 Resp: 71823

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 5.949 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

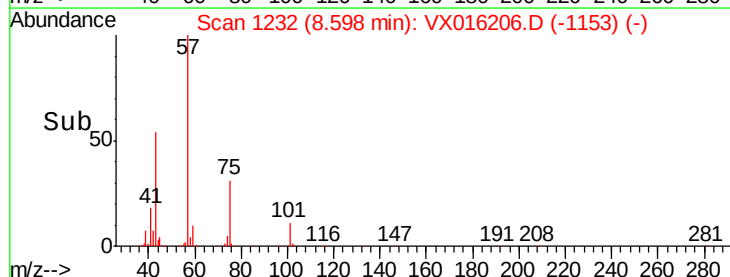
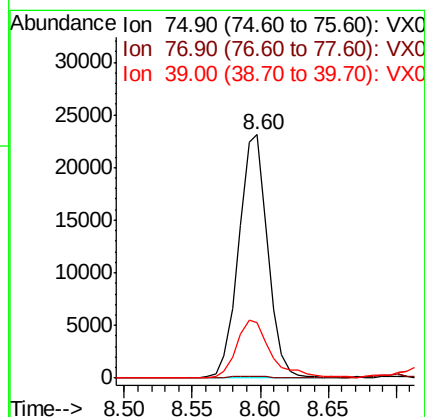
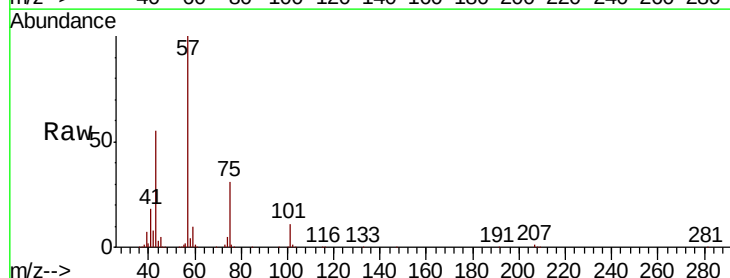
Tgt Ion: 75 Resp: 34289

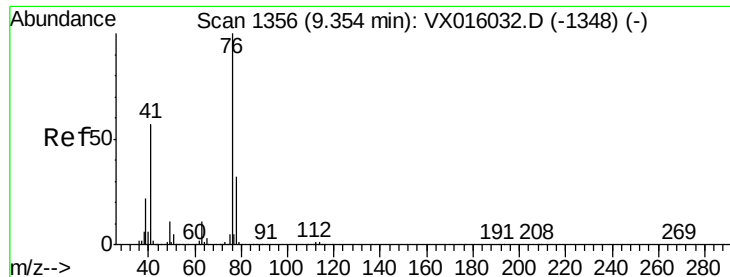
Ion Ratio Lower Upper

75 100

77 0.8 24.7 37.1#

39 22.6 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 1.010 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

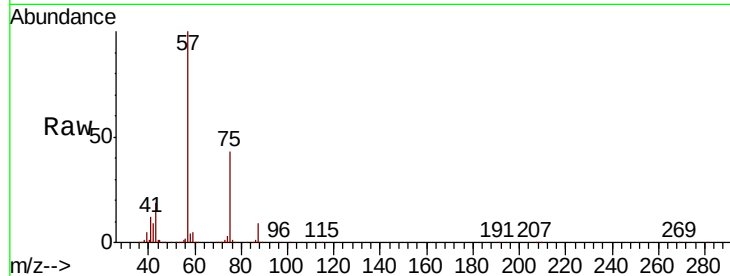
OK-02-051220

Tot Ion: 76 Resp: 5713

Ion Ratio Lower Upper

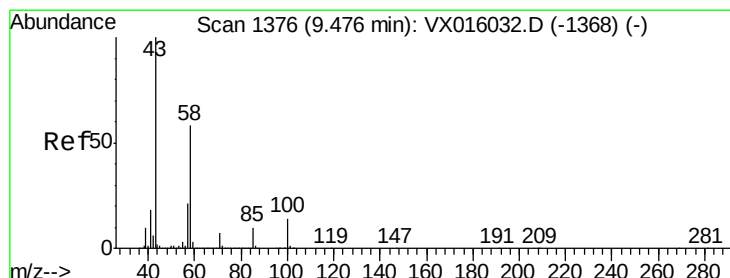
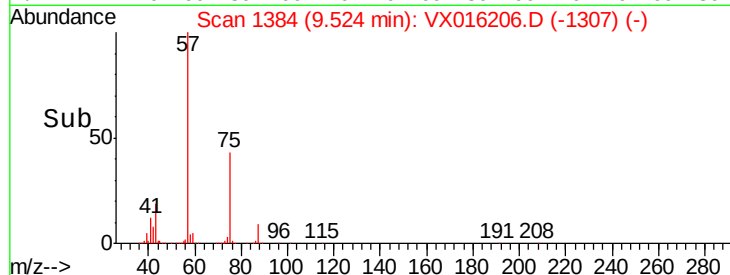
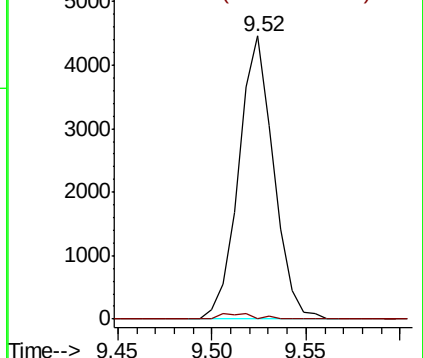
76 100

78 1.9 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: 18.154 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016206.D

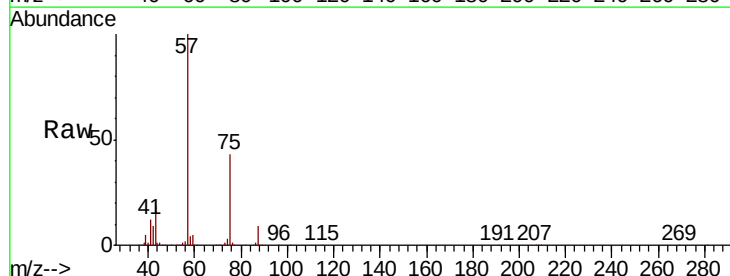
Acq: 14 May 2020 02:24

Tgt Ion: 43 Resp: 72865

Ion Ratio Lower Upper

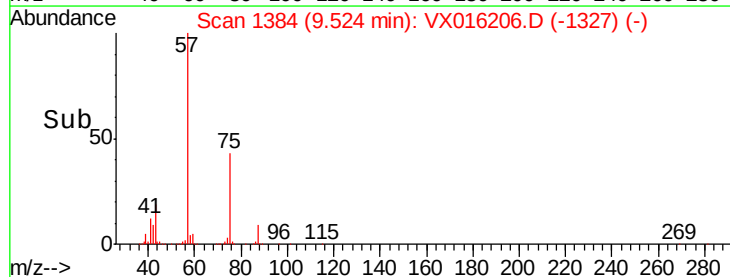
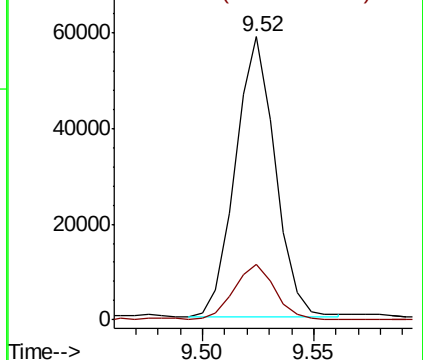
43 100

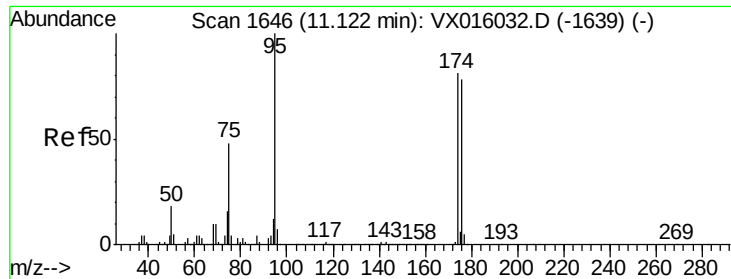
58 20.0 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 54.377 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

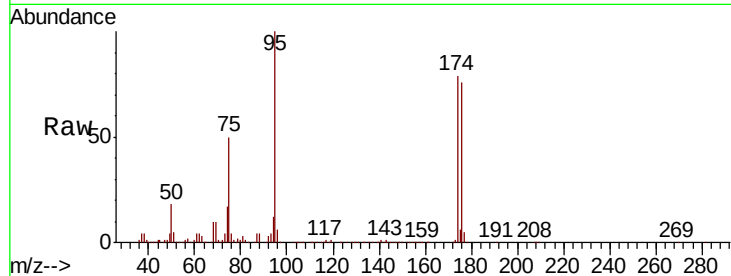
Tot Ion: 95 Resp: 231639

Ion Ratio Lower Upper

95 100

174 80.7 0.0 159.4

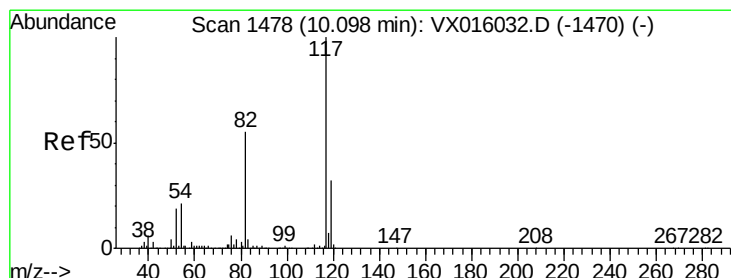
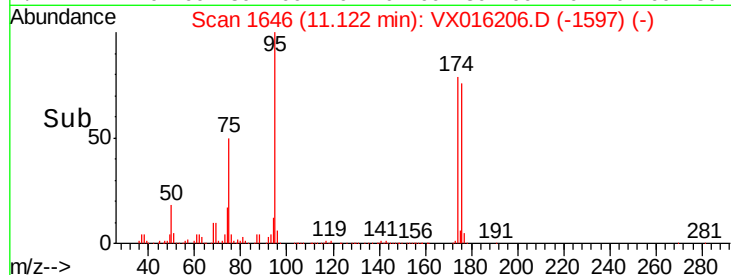
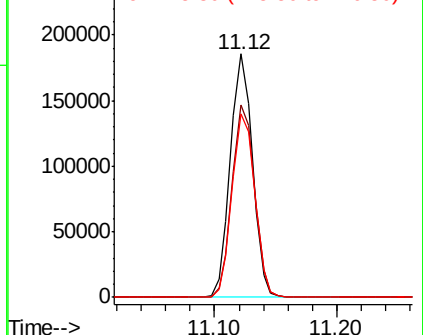
176 77.9 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016206.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016206.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016206.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

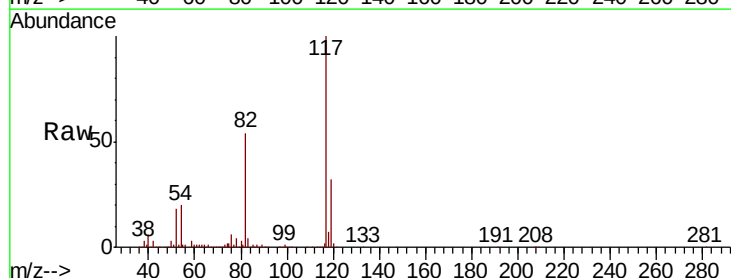
Tgt Ion: 117 Resp: 457925

Ion Ratio Lower Upper

117 100

82 53.9 44.4 66.6

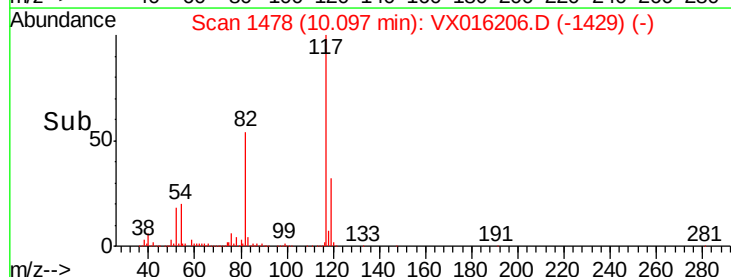
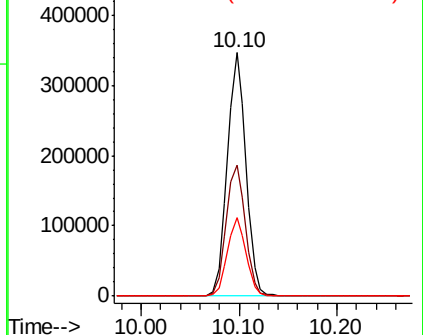
119 32.0 25.5 38.3

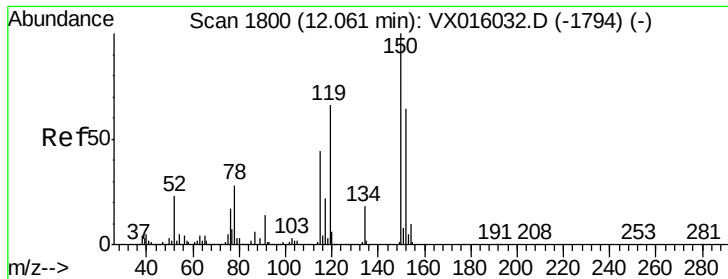


Abundance Ion 116.90 (116.60 to 117.60): VX016206.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016206.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016206.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

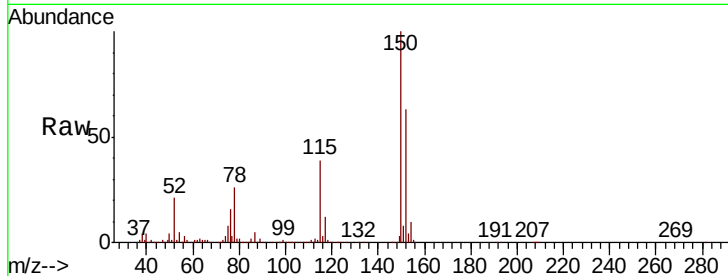
Tot Ion:152 Resp: 238493

Ion Ratio Lower Upper

152 100

115 58.4 41.3 124.1

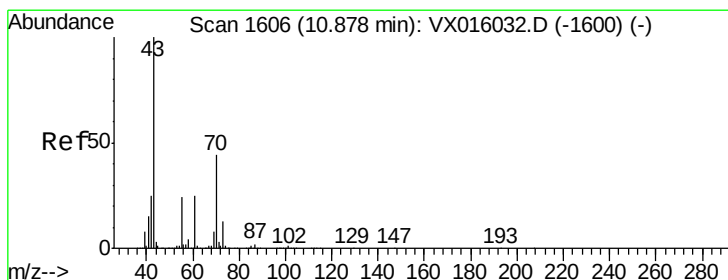
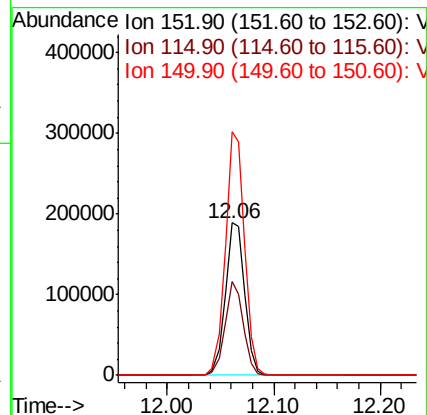
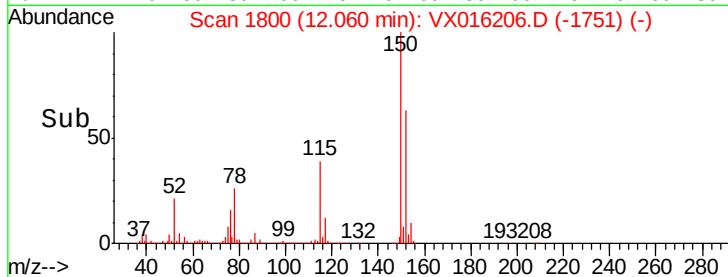
150 157.8 0.0 352.2



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: 0.522 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Tgt Ion: 43 Resp: 4227

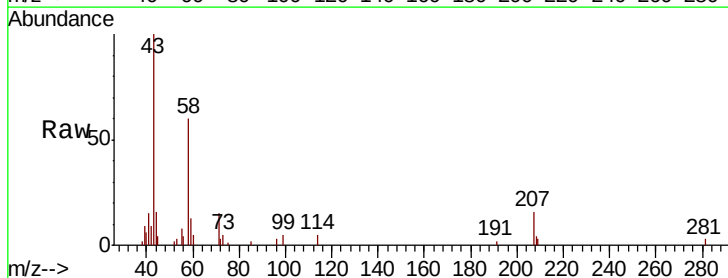
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 9.0 19.7 29.5#

61 0.0 20.9 31.3#

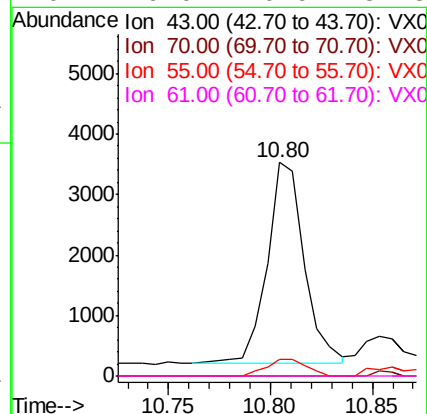
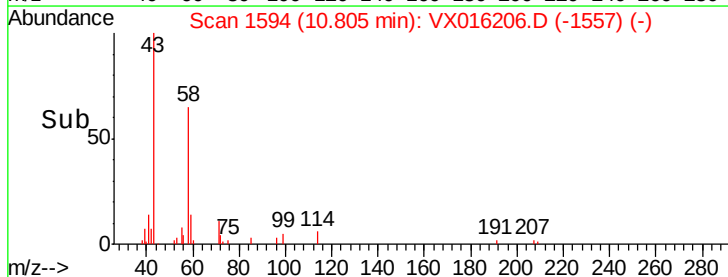


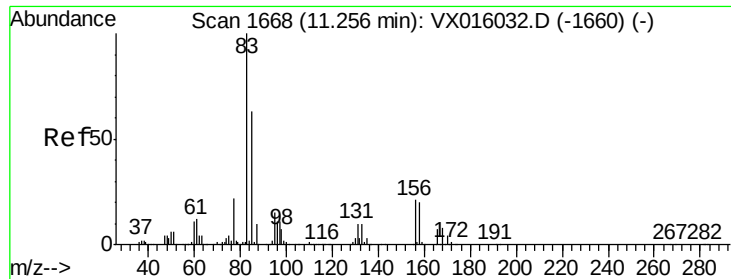
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 2.106 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

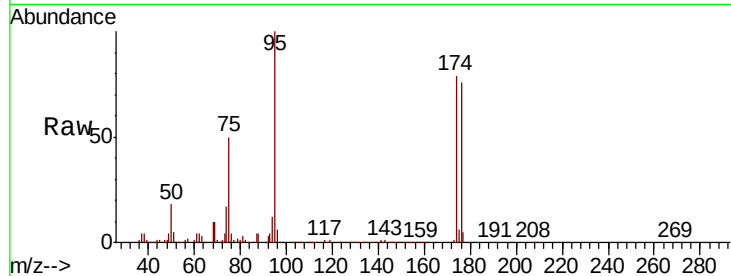
Tot Ion: 83 Resp: 186

Ion Ratio Lower Upper

83 100

131 176.9 5.1 15.4#

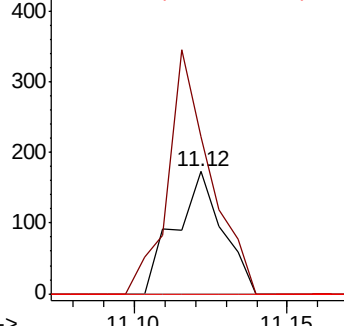
85 0.0 32.0 96.0#



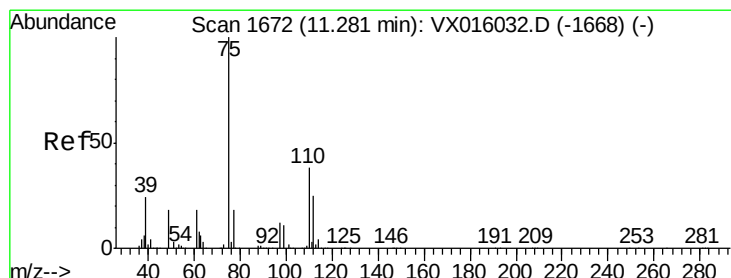
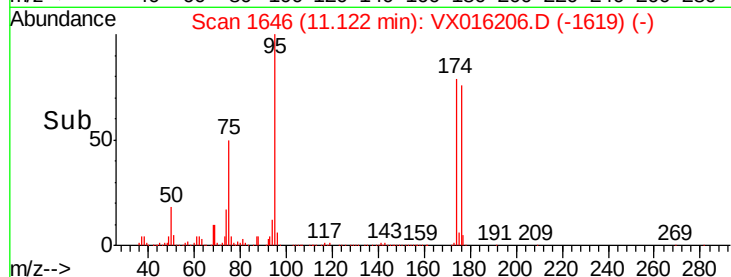
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 20.997 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016206.D

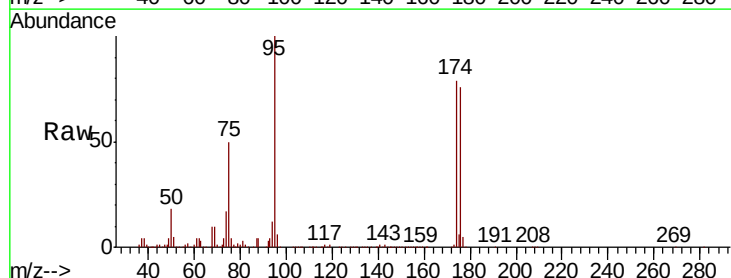
Acq: 14 May 2020 02:24

Tgt Ion: 75 Resp: 113636

Ion Ratio Lower Upper

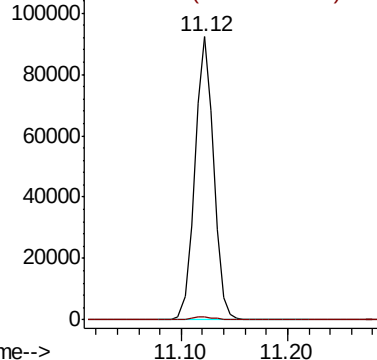
75 100

77 1.3 21.2 63.6#

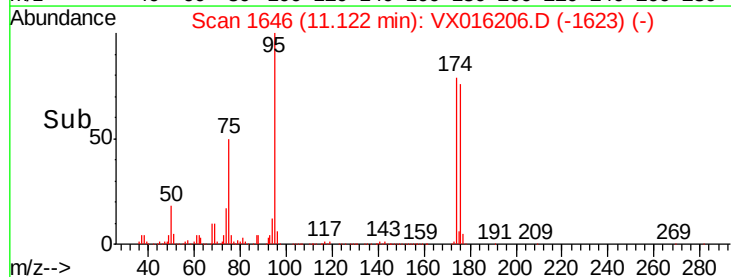


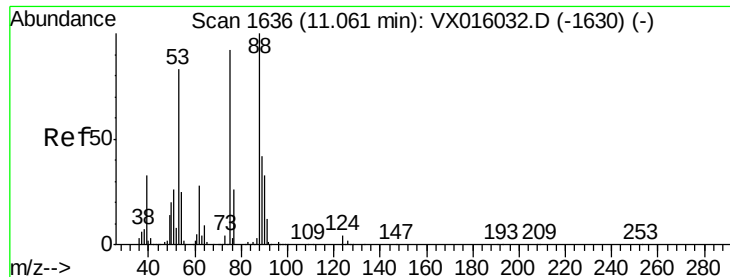
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 50.038 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

Instrument :

MSVOA_X

ClientSampleId :

OK-02-051220

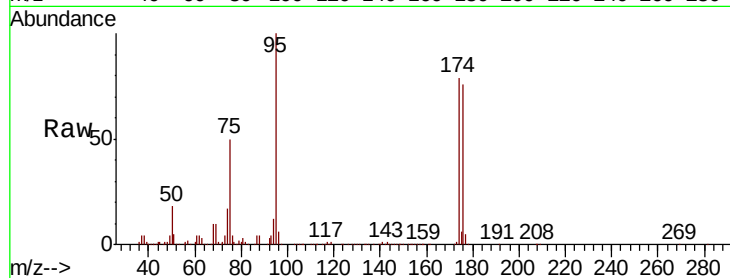
Tot Ion: 75 Resp: 113636

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

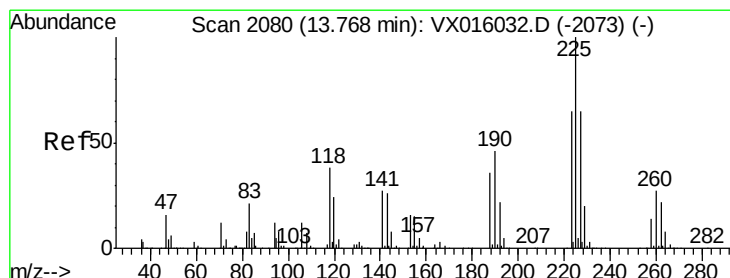
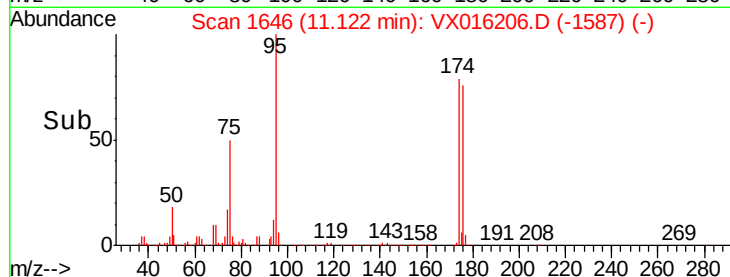
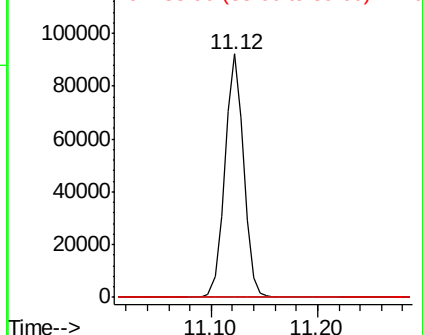


Abundance

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



#94

Hexachlorobutadiene

Concen: 0.628 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016206.D

Acq: 14 May 2020 02:24

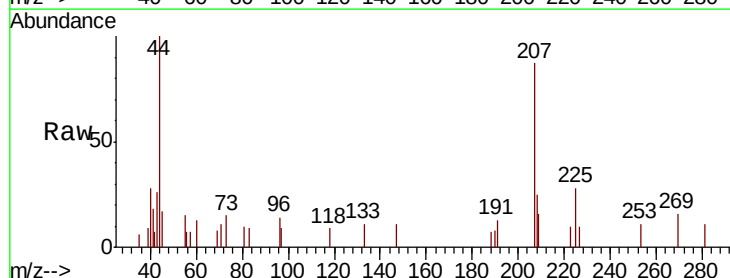
Tgt Ion: 225 Resp: 260

Ion Ratio Lower Upper

225 100

223 46.5 32.3 96.9

227 36.2 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

