

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\
 Data File : VX013107.D
 Acq On : 17 Oct 2019 15:11
 Operator : JC/SP
 Sample : K5396-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7345A-9001

Quant Time: Oct 18 08:03:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	185917	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	301582	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101372	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	114729	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
35) Dibromofluoromethane	5.48	113	90007	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
50) Toluene-d8	8.71	98	348108	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	11.14	95	116594	44.45	ug/l	0.00
Spiked Amount			Recovery	=	88.90%	

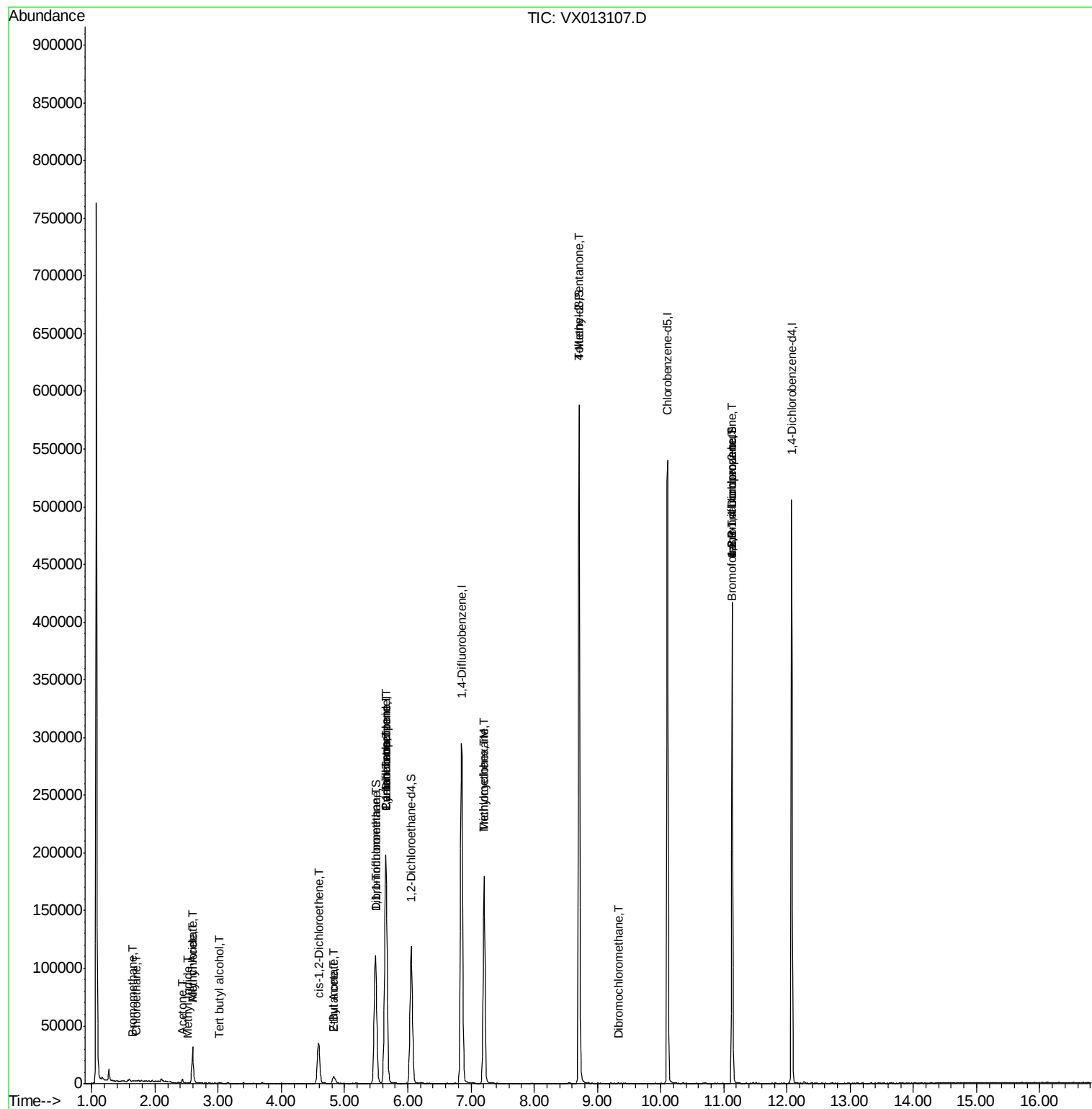
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	402	0.454	ug/l	88
6) Chloroethane	1.70	64	351	0.636	ug/l #	43
10) Methyl Iodide	2.51	142	364	5.237	ug/l #	89
11) Tert butyl alcohol	3.01	59	400	0.649	ug/l #	72
14) Allyl chloride	2.59	41	3171	0.948	ug/l #	65
16) Acetone	2.44	43	3586	2.928	ug/l	93
18) Methyl Acetate	2.60	43	8650	2.979	ug/l #	51
25) 2-Butanone	4.83	43	11004	6.476	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	22778	9.813	ug/l	90
31) Cyclohexane	5.65	56	3544	1.051	ug/l #	1
32) 1,1,1-Trichloroethane	5.48	97	7834	2.498	ug/l	99
36) 1,1-Dichloropropene	5.65	75	14061	5.303	ug/l #	50
37) Ethyl Acetate	4.83	43	11004	3.711	ug/l	98
38) Carbon Tetrachloride	5.65	117	18970	7.350	ug/l #	19
39) Methylcyclohexane	7.20	83	796	0.248	ug/l #	1
44) Trichloroethene	7.21	130	70988	32.689	ug/l	96
51) 4-Methyl-2-Pentanone	8.71	43	1502	0.506	ug/l #	1
60) Dibromochloromethane	9.33	129	128	1.913	ug/l #	10
71) Bromoform	11.12	173	116	3.207	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	58343	25.948	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	58343	65.360	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 16 07:26:22 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

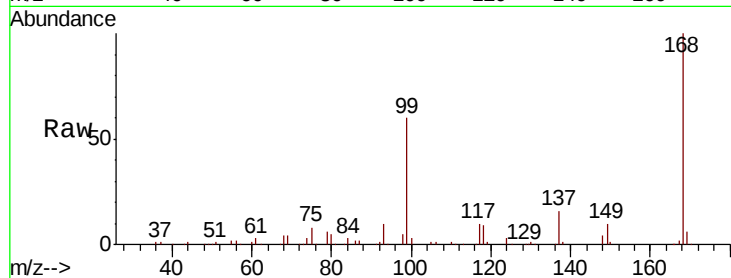
FA19-JBW7345A-9001

Tot Ion:168 Resp: 185917

Ion Ratio Lower Upper

168 100

99 60.1 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

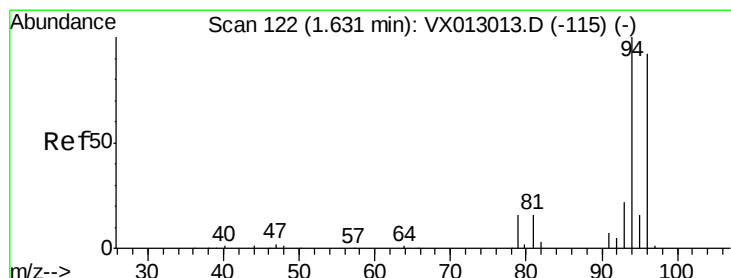
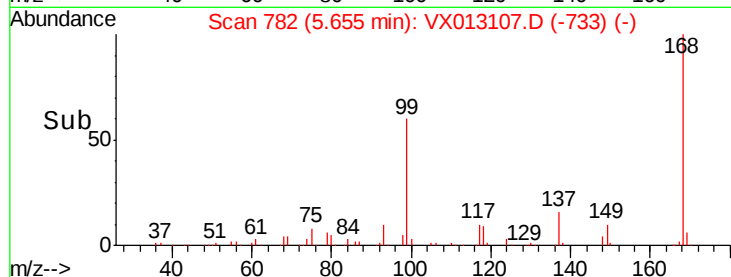
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#5

Bromomethane

Concen: 0.454 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013107.D

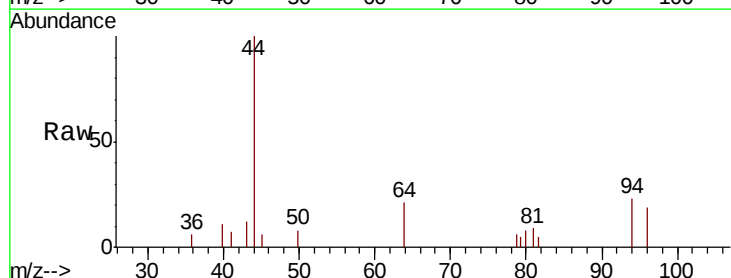
Acq: 17 Oct 2019 15:11

Tgt Ion: 94 Resp: 402

Ion Ratio Lower Upper

94 100

96 81.9 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

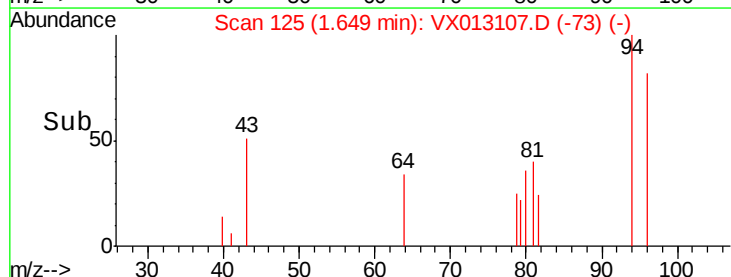
150

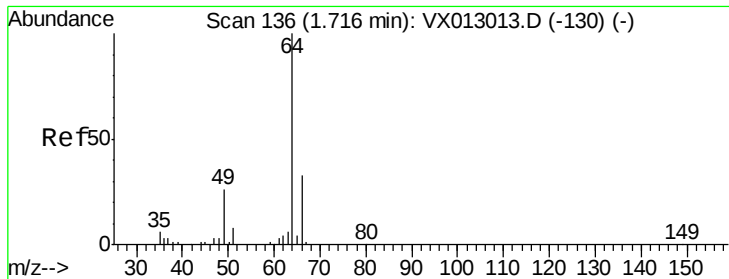
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.636 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

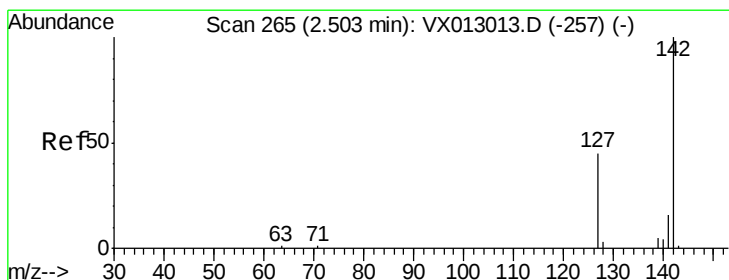
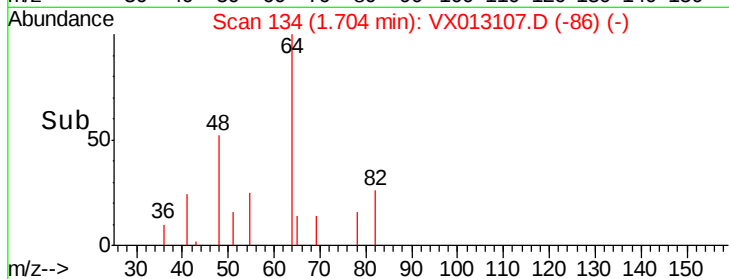
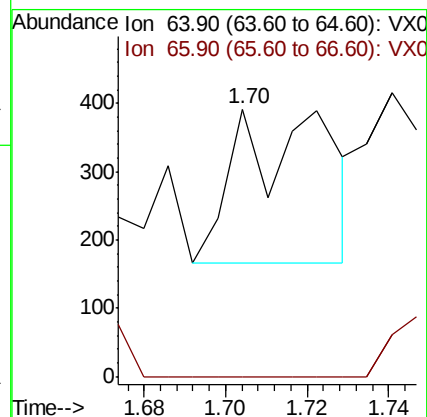
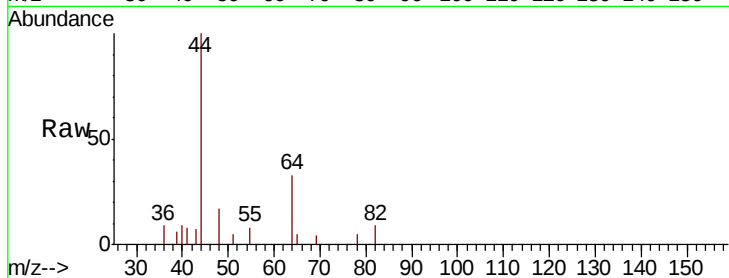
FA19-JBW7345A-9001

Tot Ion: 64 Resp: 351

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.237 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

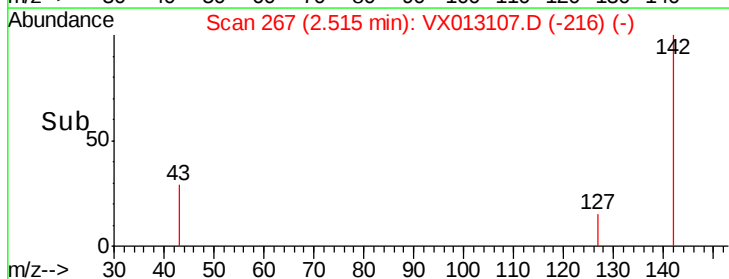
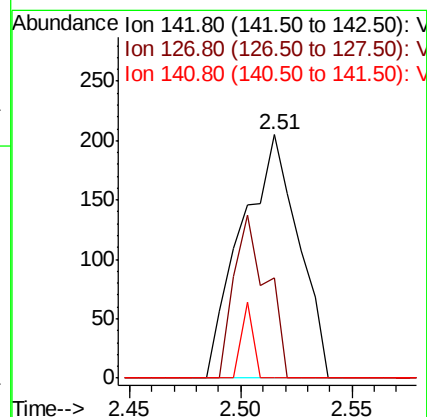
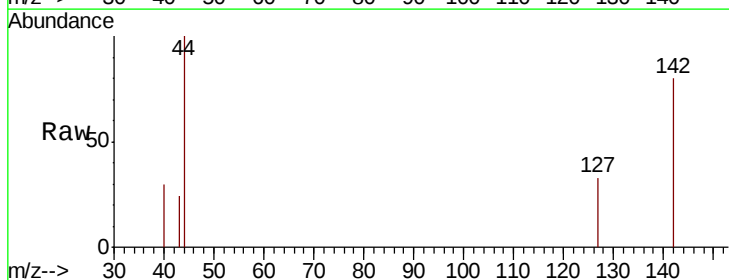
Tgt Ion: 142 Resp: 364

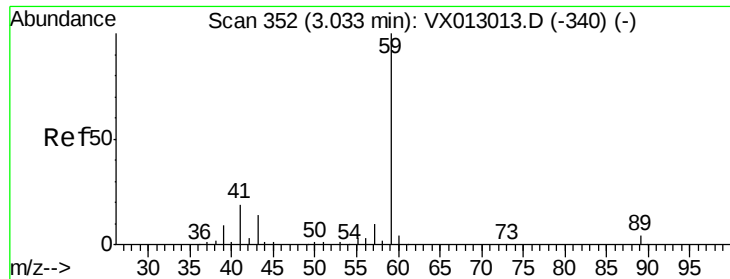
Ion Ratio Lower Upper

142 100

127 38.7 34.9 52.3

141 6.3 11.6 17.4#



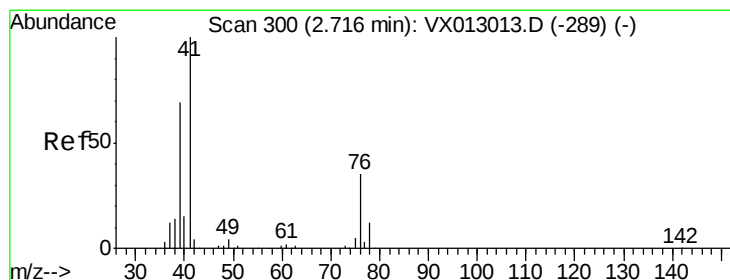
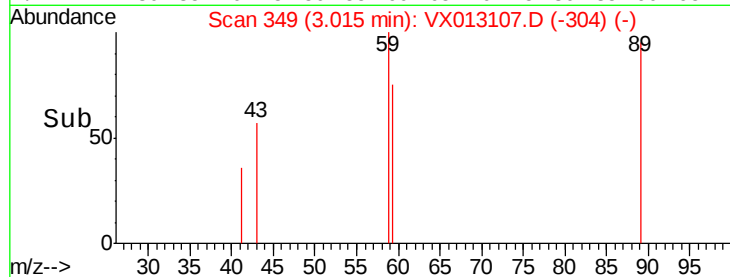
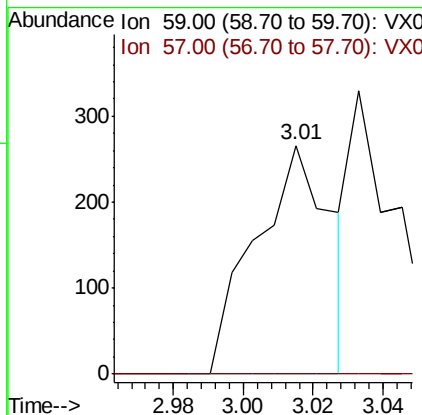
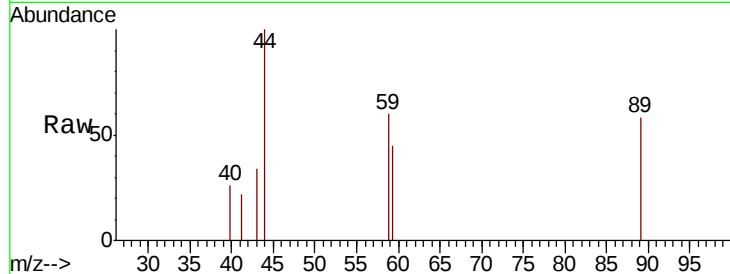


#11

Tert butyl alcohol
 Concen: 0.649 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: VX013107.D
 Acq: 17 Oct 2019 15:11

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JBW7345A-9001

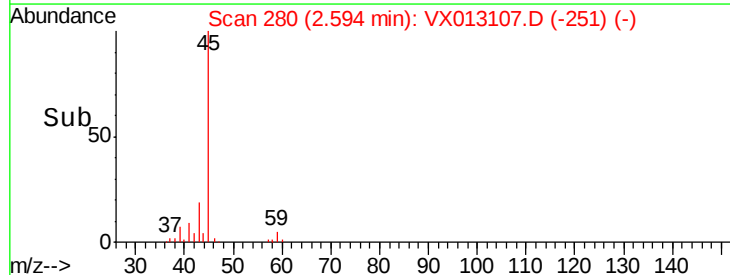
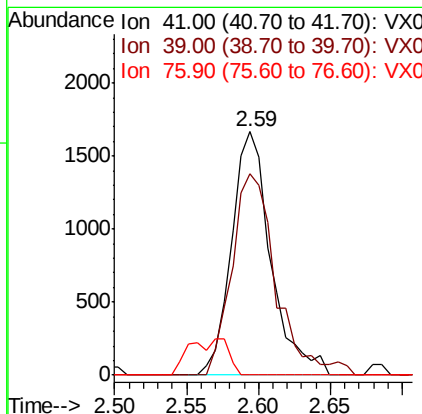
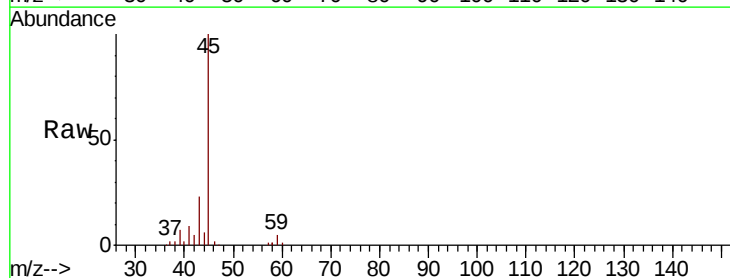
Tot Ion: 59 Resp: 400
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

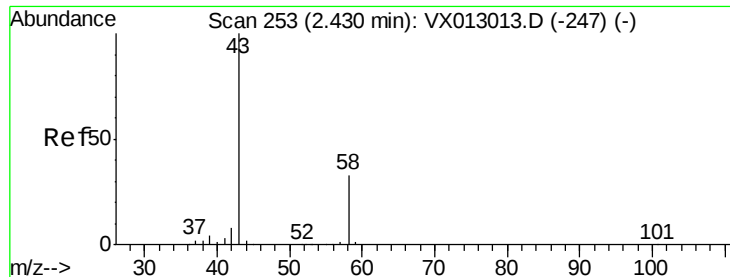


#14

Allyl chloride
 Concen: 0.948 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX013107.D
 Acq: 17 Oct 2019 15:11

Tgt Ion: 41 Resp: 3171
 Ion Ratio Lower Upper
 41 100
 39 92.6 51.0 76.6#
 76 14.7 26.2 39.4#





#16

Acetone

Concen: 2.928 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

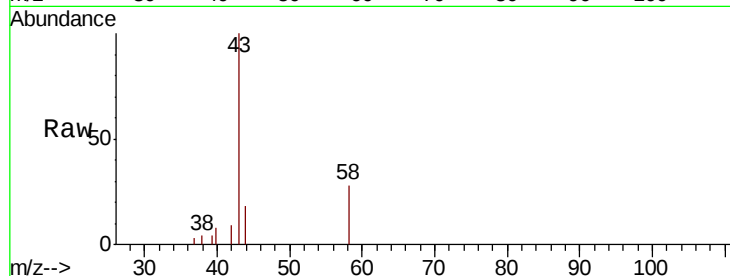
FA19-JBW7345A-9001

Tot Ion: 43 Resp: 3586

Ion Ratio Lower Upper

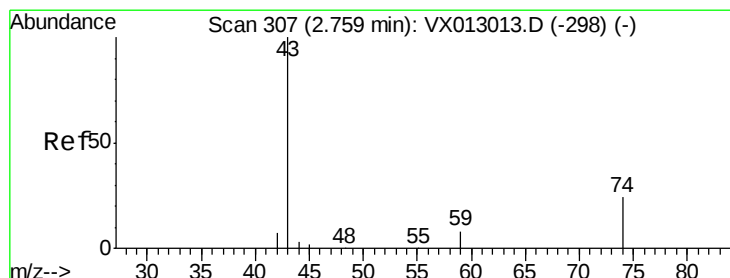
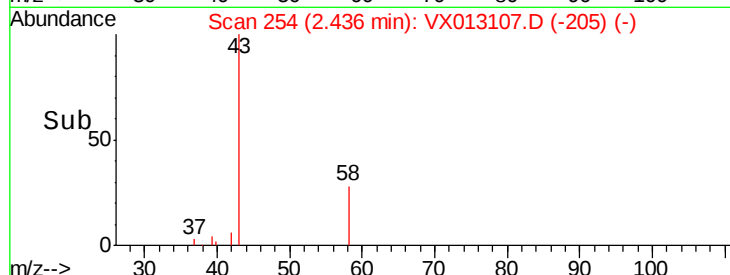
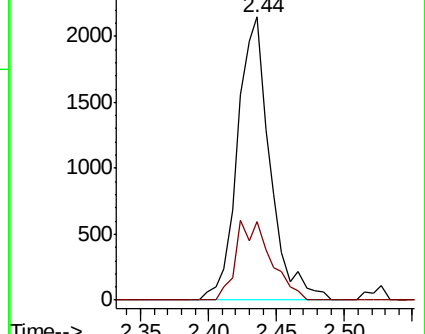
43 100

58 27.9 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 2.979 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.16 min

Lab File: VX013107.D

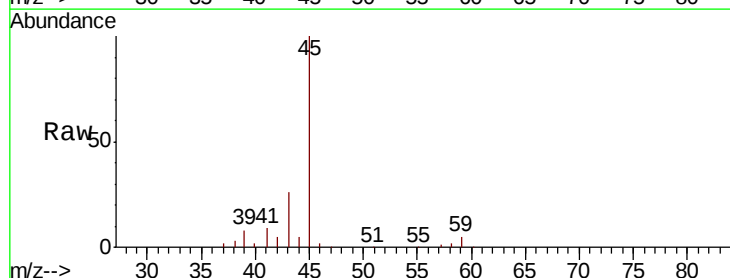
Acq: 17 Oct 2019 15:11

Tgt Ion: 43 Resp: 8650

Ion Ratio Lower Upper

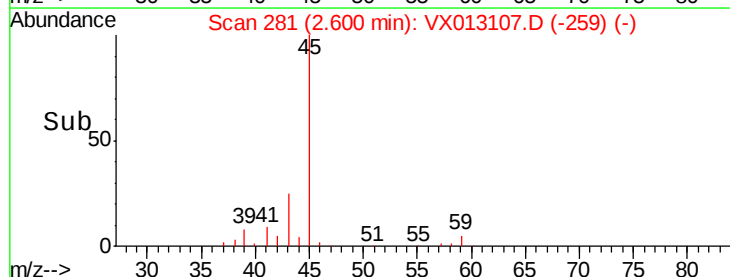
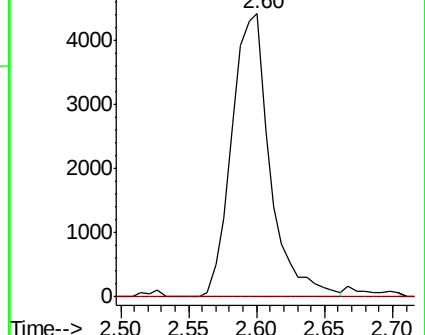
43 100

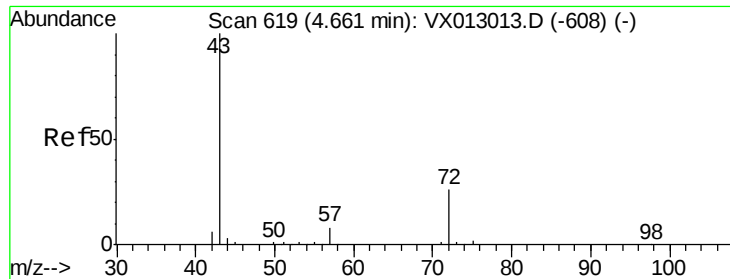
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 6.476 ug/l

RT: 4.83 min Scan# 647

Delta R.T. 0.17 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

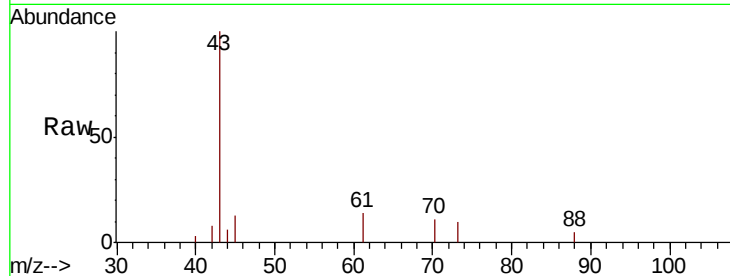
FA19-JBW7345A-9001

Tot Ion: 43 Resp: 11004

Ion Ratio Lower Upper

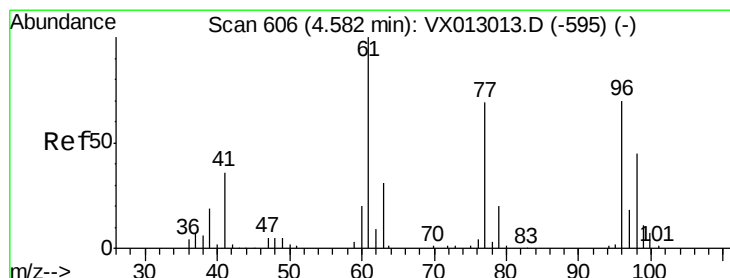
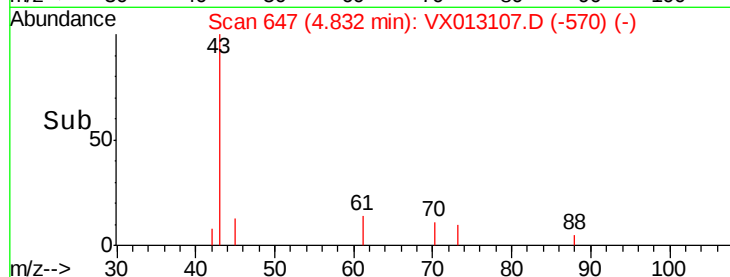
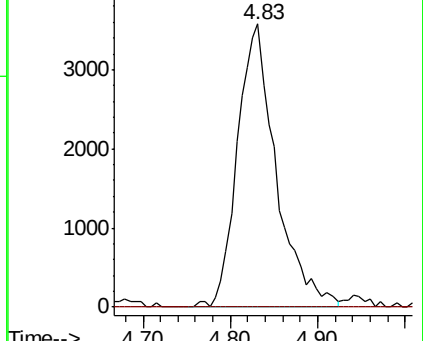
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 9.813 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

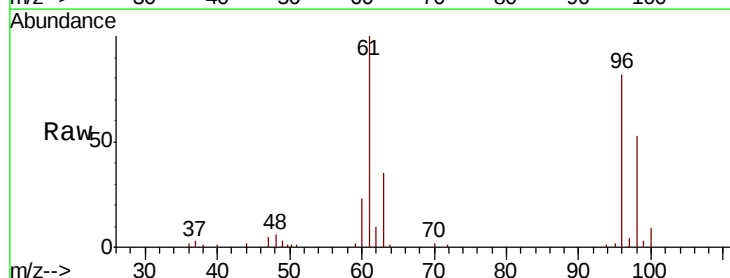
Tgt Ion: 96 Resp: 22778

Ion Ratio Lower Upper

96 100

61 127.5 0.0 290.6

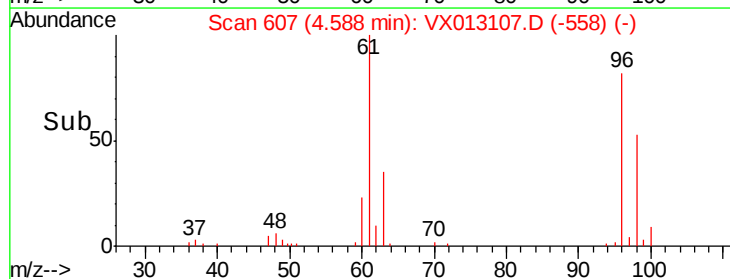
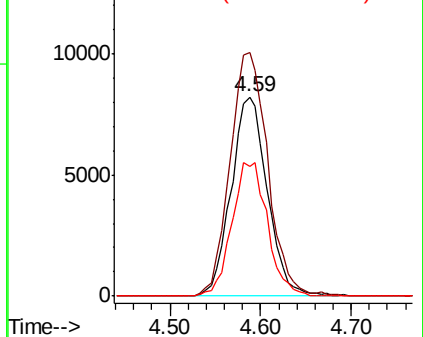
98 65.7 0.0 128.8

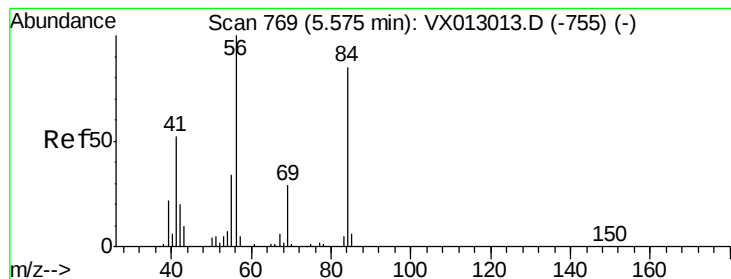


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.051 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013107.D

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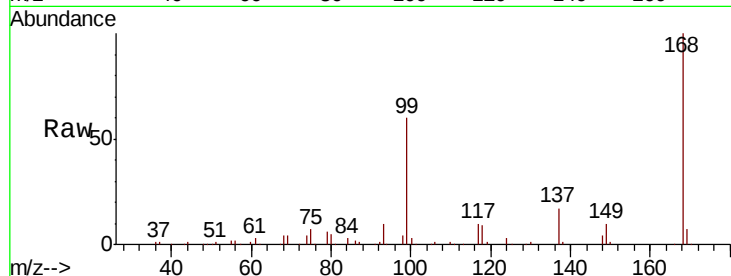
Tot Ion: 56 Resp: 3544

Ion Ratio Lower Upper

56 100

69 184.8 25.2 37.8#

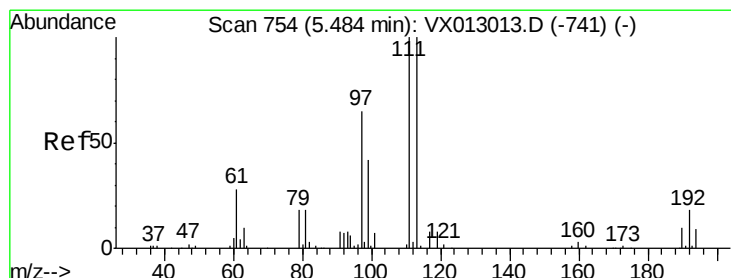
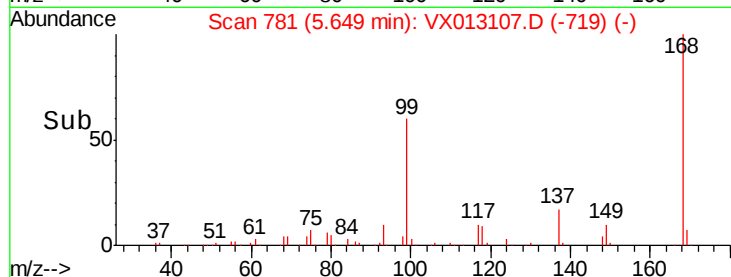
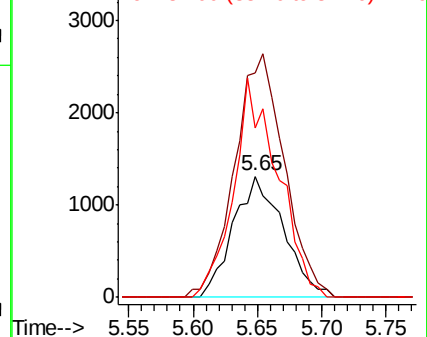
84 139.7 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 2.498 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

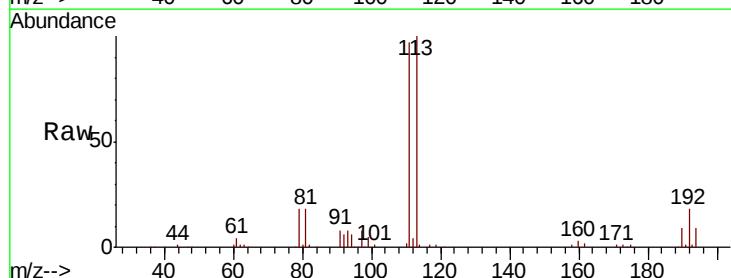
Tgt Ion: 97 Resp: 7834

Ion Ratio Lower Upper

97 100

99 65.3 52.3 78.5

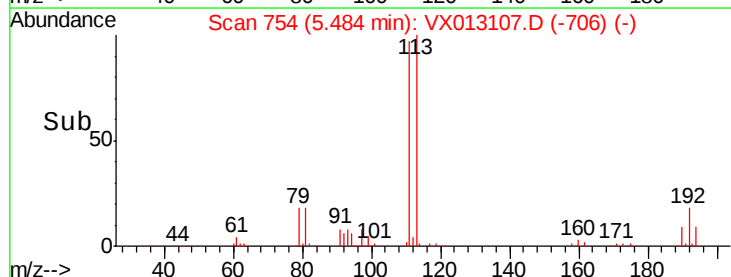
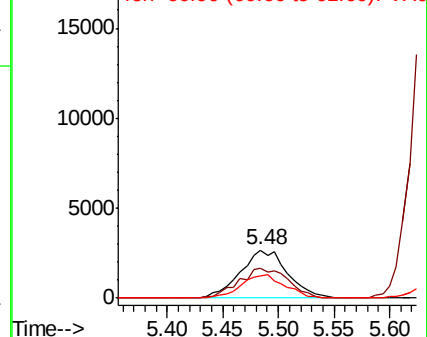
61 45.1 35.0 52.4

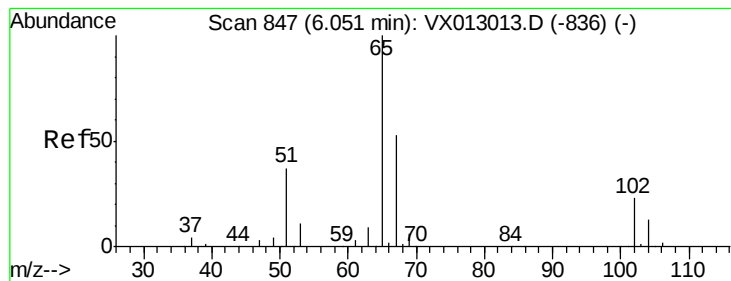


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.373 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

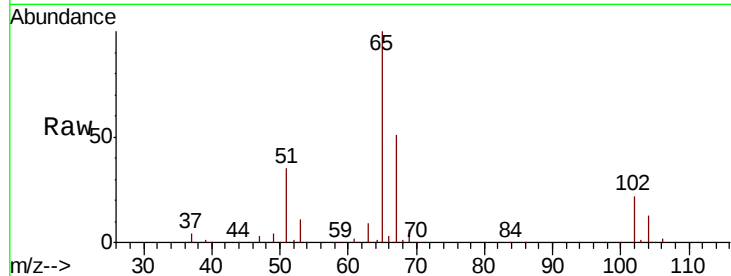
FA19-JBW7345A-9001

Tot Ion: 65 Resp: 114729

Ion Ratio Lower Upper

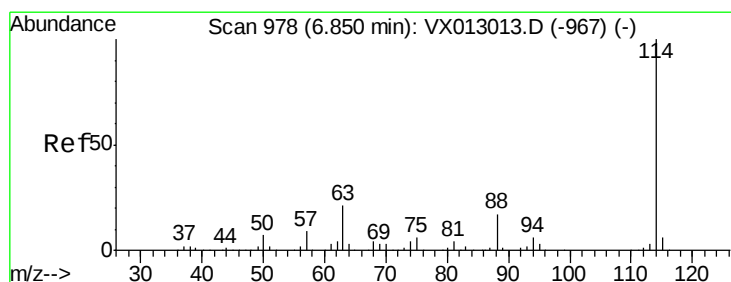
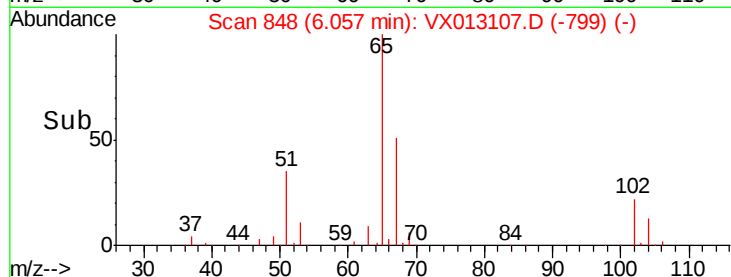
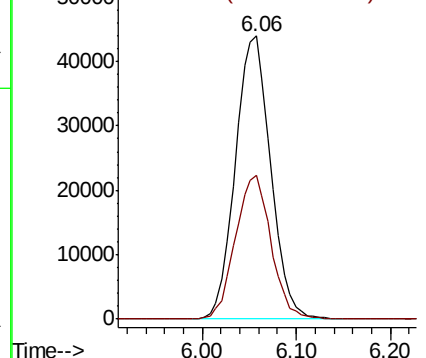
65 100

67 51.1 0.0 104.4



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: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

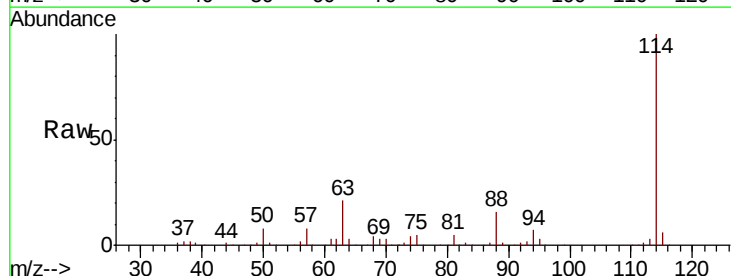
Tgt Ion: 114 Resp: 301582

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

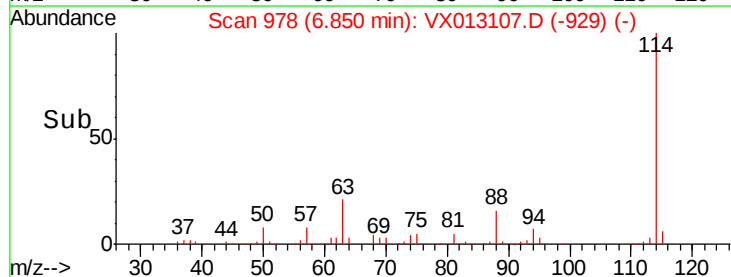
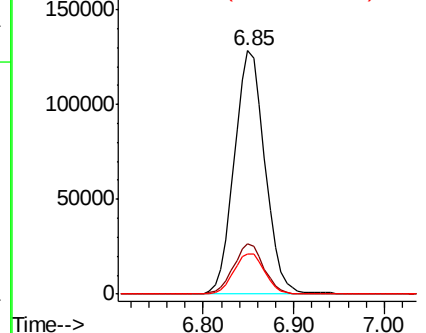
88 16.4 0.0 33.8

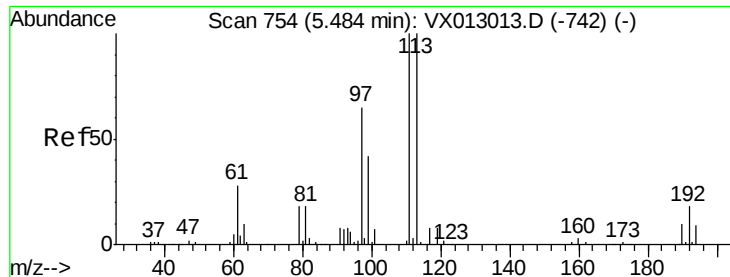


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.999 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7345A-9001

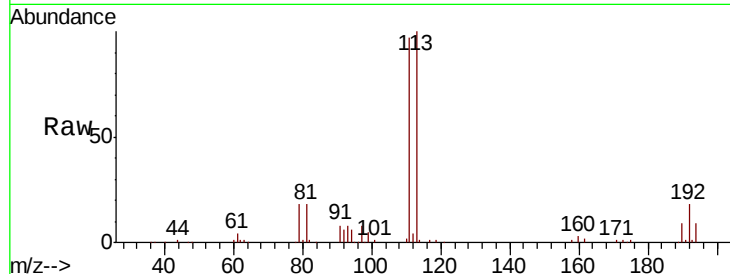
Tot Ion:113 Resp: 90007

Ion Ratio Lower Upper

113 100

111 103.5 83.2 124.8

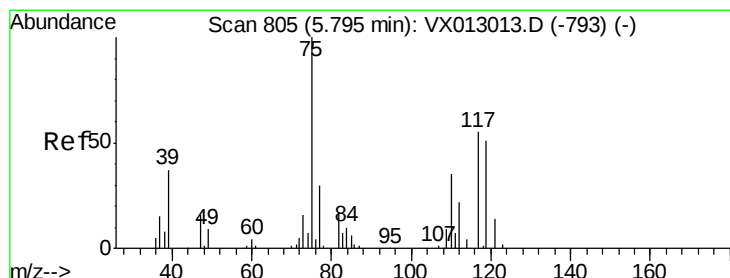
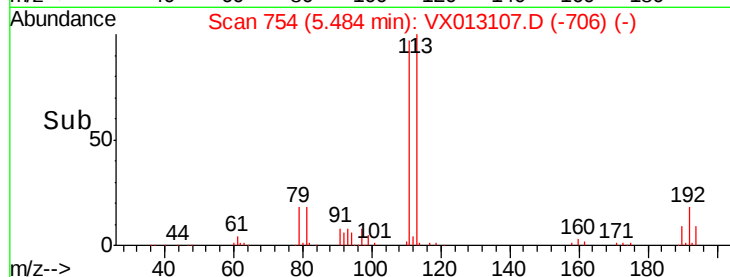
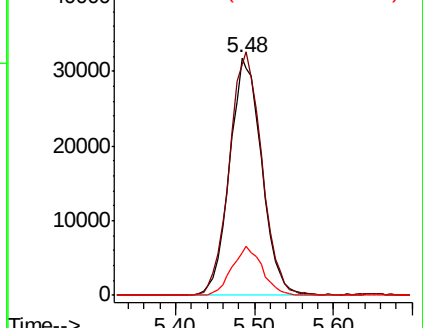
192 19.6 15.4 23.2



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: 5.303 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

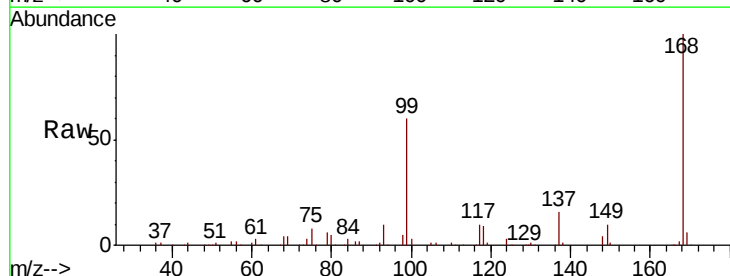
Tgt Ion: 75 Resp: 14061

Ion Ratio Lower Upper

75 100

110 9.5 17.6 52.9#

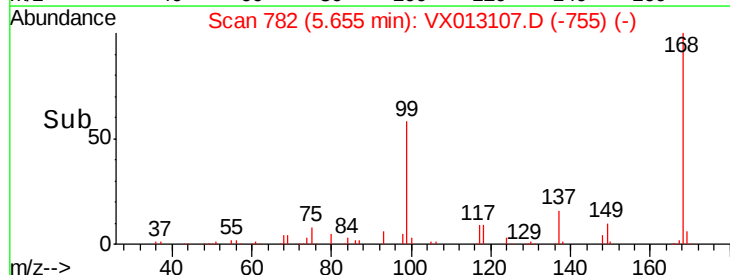
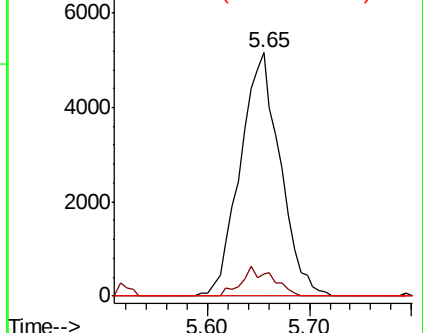
77 0.0 24.4 36.6#

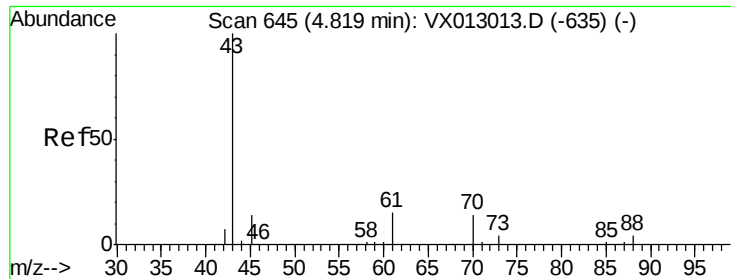


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

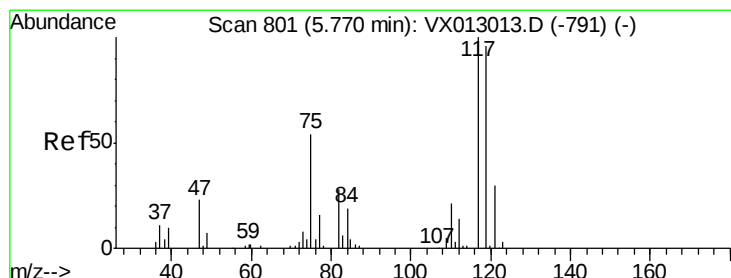
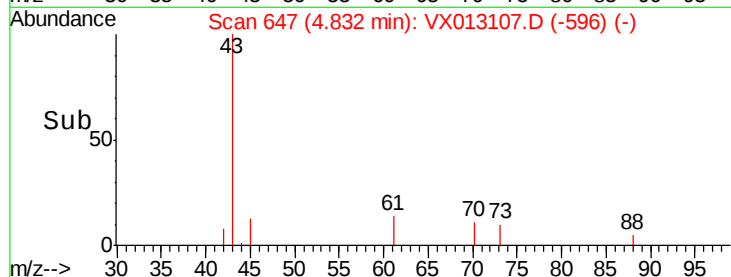
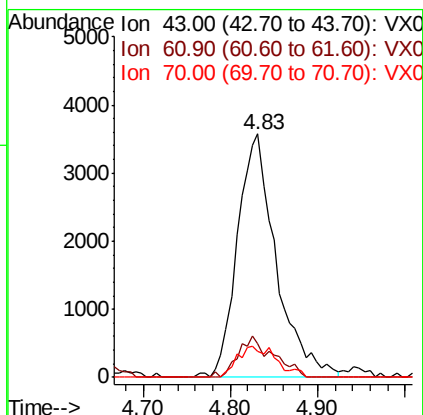
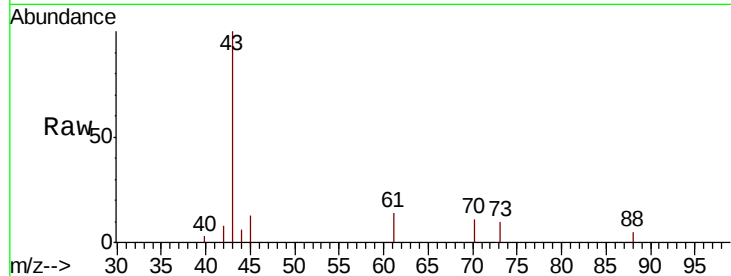




#37
Ethyl Acetate
Concen: 3.711 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

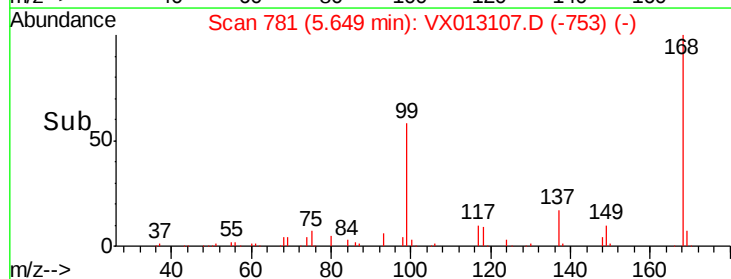
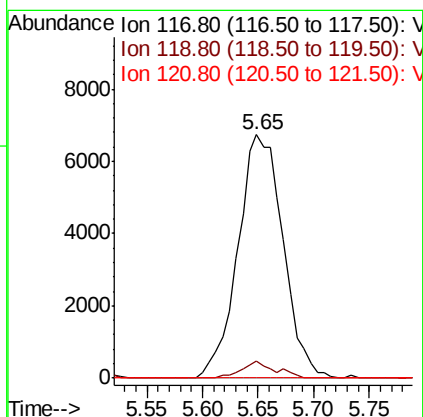
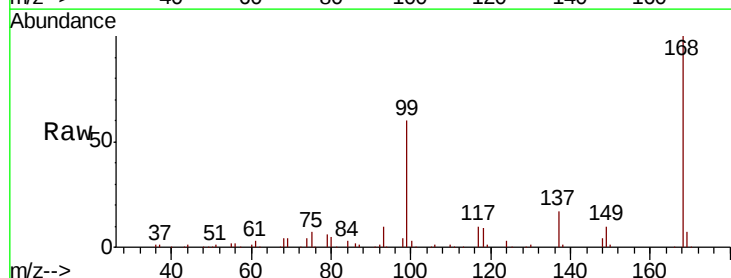
Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7345A-9001

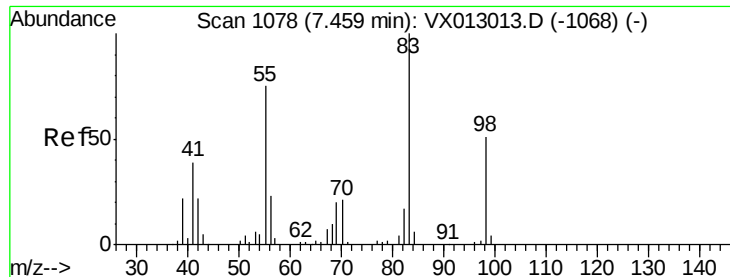
Tot Ion: 43 Resp: 11004
Ion Ratio Lower Upper
43 100
61 15.4 11.4 17.0
70 12.8 9.8 14.6



#38
Carbon Tetrachloride
Concen: 7.350 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Tgt Ion: 117 Resp: 18970
Ion Ratio Lower Upper
117 100
119 6.8 74.5 111.7#
121 0.0 24.2 36.4#

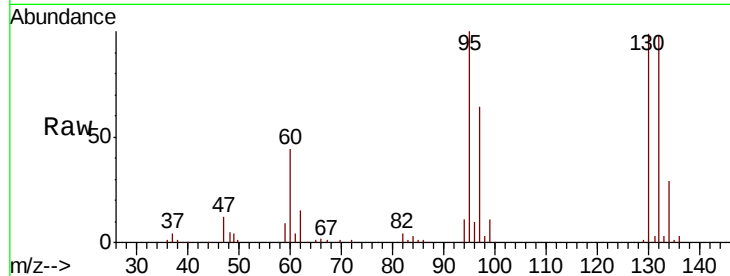




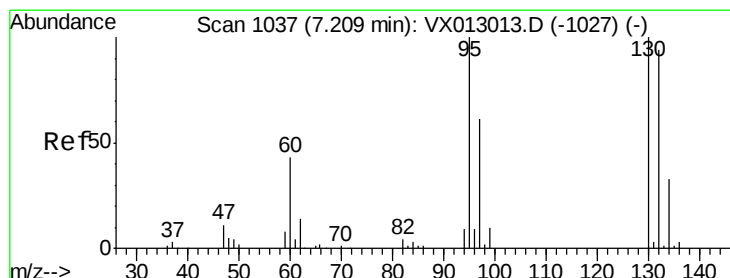
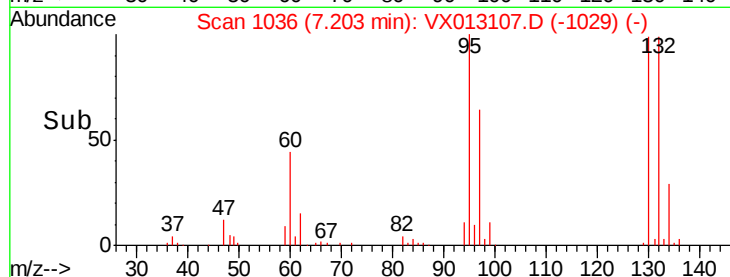
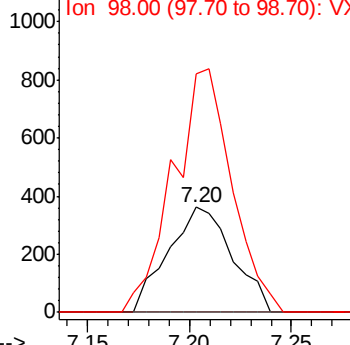
#39
Methylcyclohexane
Concen: 0.248 ug/l
RT: 7.20 min Scan# 1036
Delta R.T. -0.26 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7345A-9001

Tot Ion: 83 Resp: 796
Ion Ratio Lower Upper
83 100
55 0.0 60.2 90.4#
98 226.9 38.5 57.7#

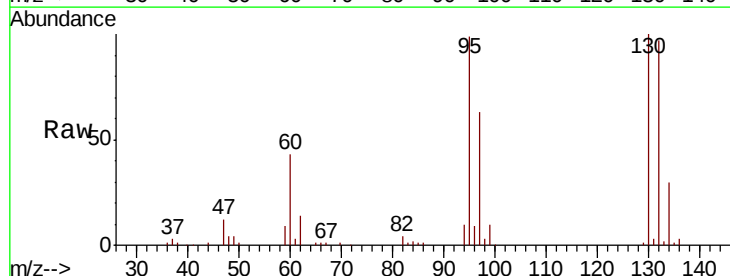


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

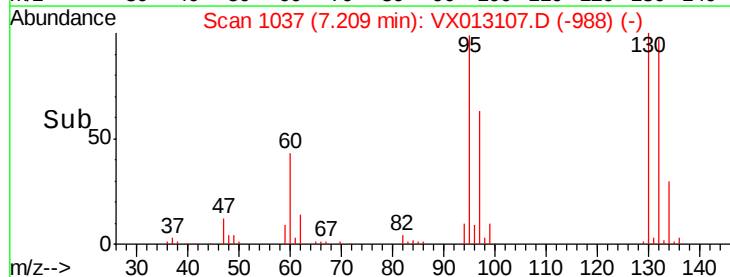
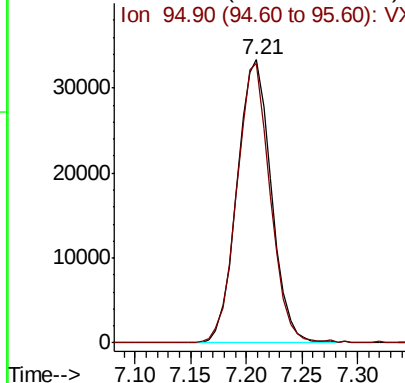


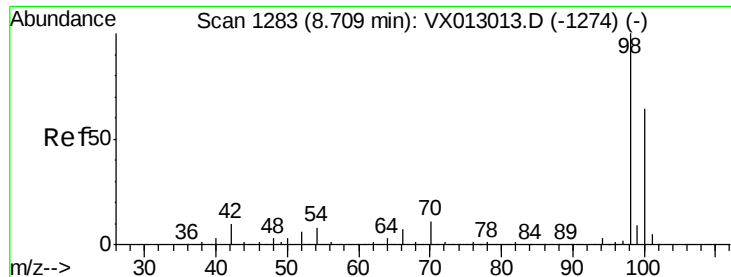
#44
Trichloroethene
Concen: 32.689 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Tgt Ion:130 Resp: 70988
Ion Ratio Lower Upper
130 100
95 98.9 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

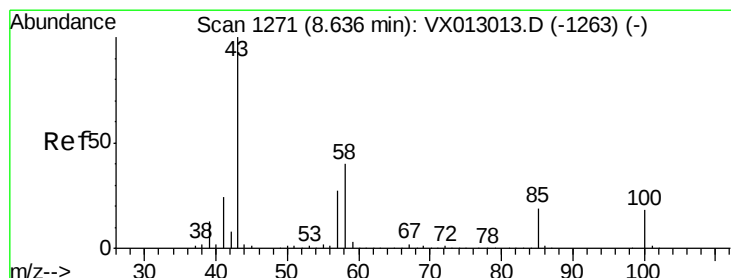
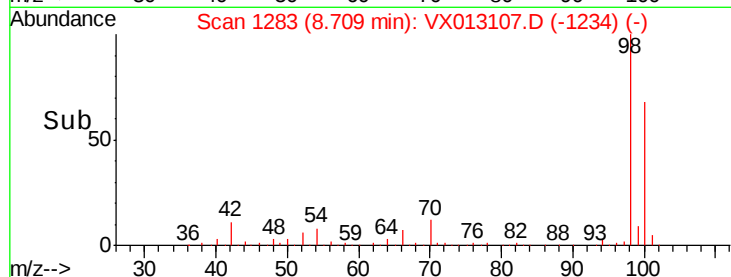
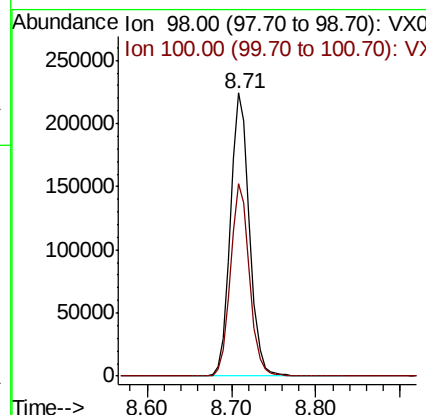
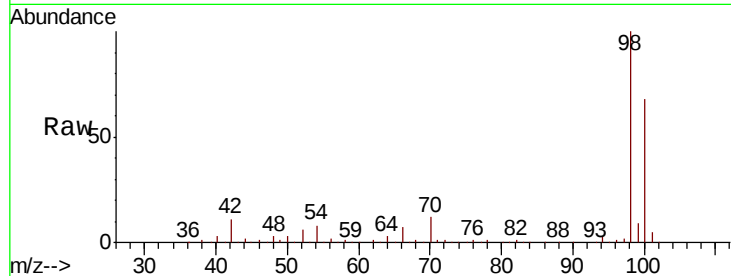




#50
Toluene-d8
Concen: 51.564 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

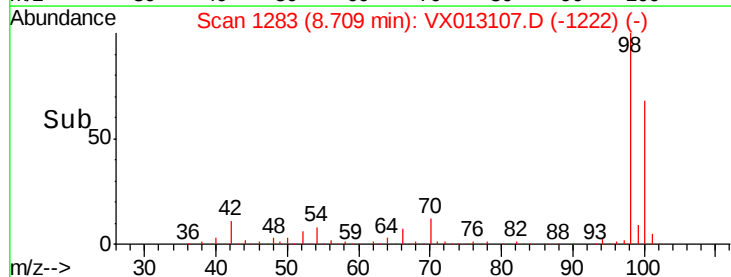
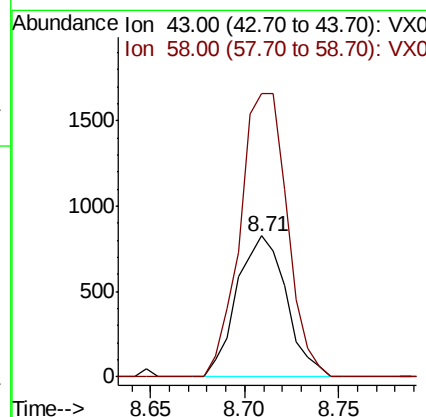
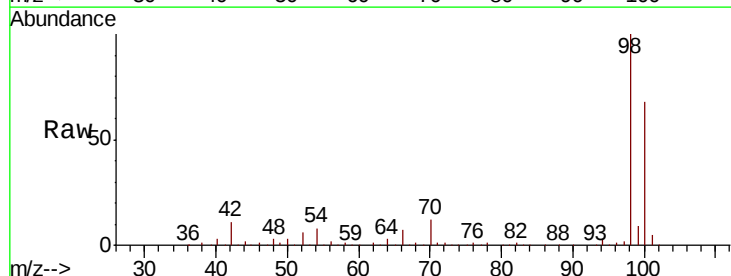
Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7345A-9001

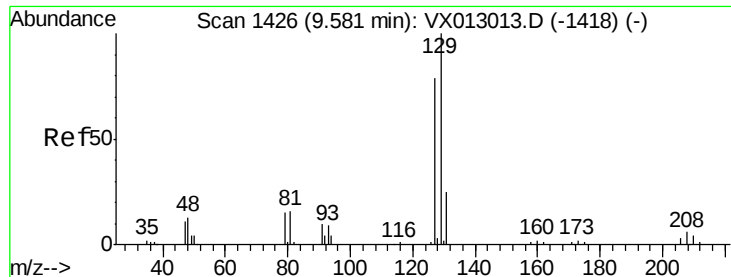
Tot Ion: 98 Resp: 348108
Ion Ratio Lower Upper
98 100
100 67.7 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.506 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Tgt Ion: 43 Resp: 1502
Ion Ratio Lower Upper
43 100
58 191.9 32.4 48.6#





#60

Dibromochloromethane

Concen: 1.913 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

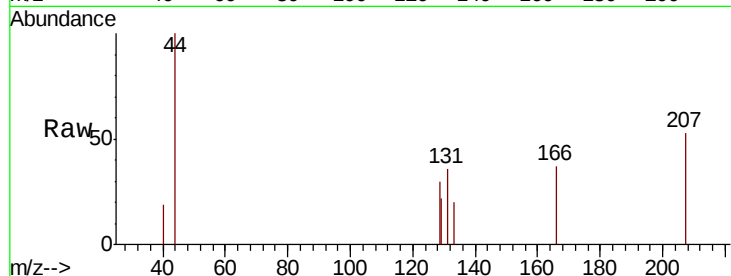
FA19-JBW7345A-9001

Tot Ion:129 Resp: 128

Ion Ratio Lower Upper

129 100

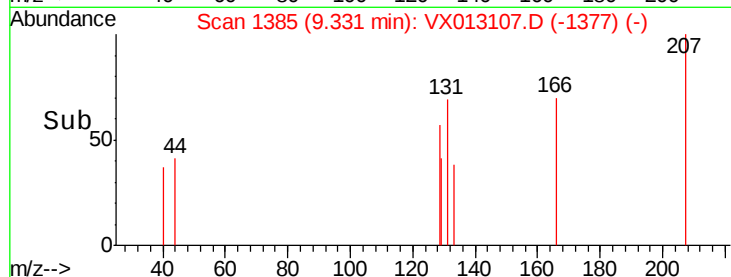
127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33



Abundance

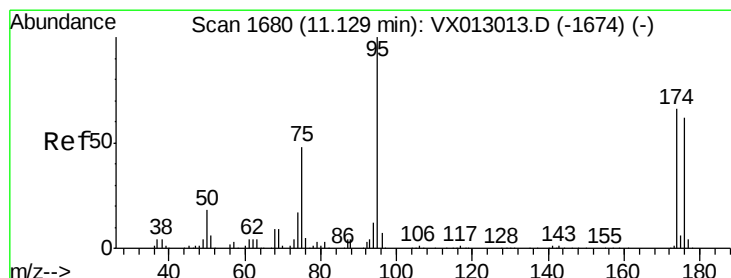
150

100

50

0

Time--> 9.30 9.32 9.34 9.36



#62

4-Bromofluorobenzene

Concen: 44.448 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

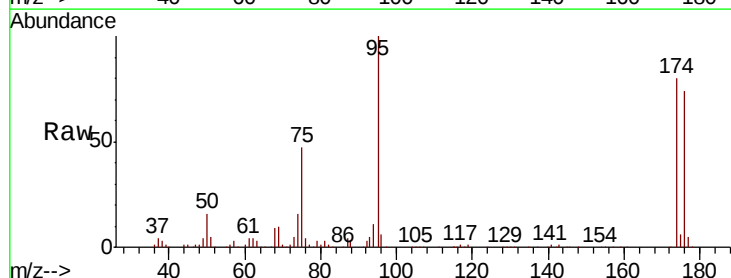
Tgt Ion: 95 Resp: 116594

Ion Ratio Lower Upper

95 100

174 77.3 0.0 143.4

176 71.7 0.0 136.0



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

120000

100000

80000

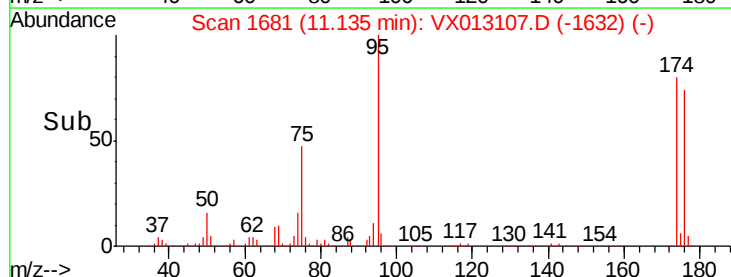
60000

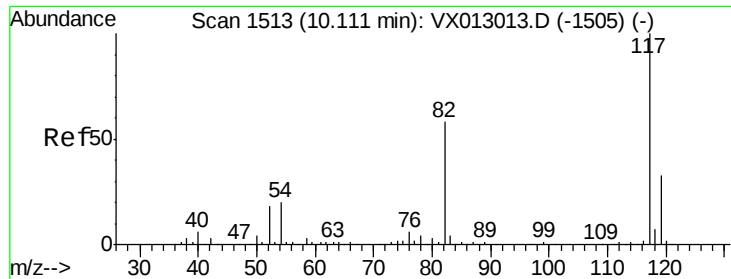
40000

20000

0

Time--> 11.10 11.20

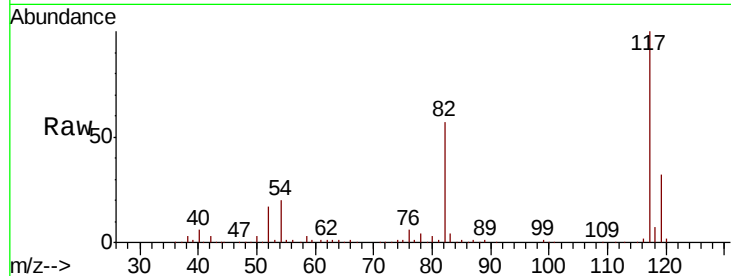




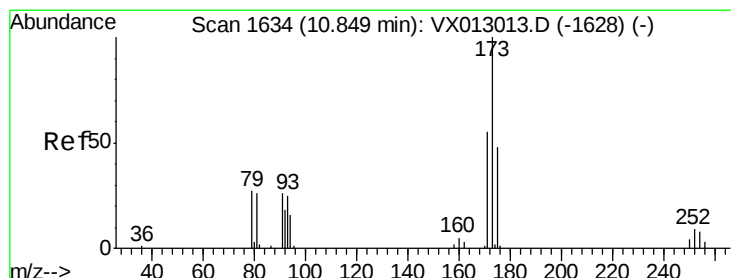
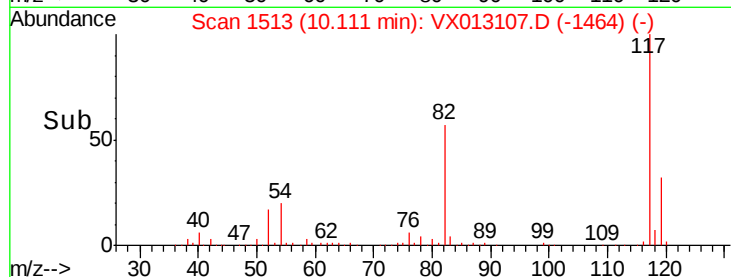
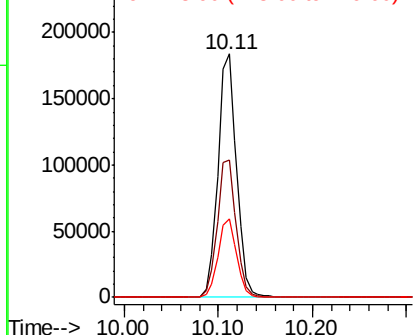
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Instrument :
MSVOA_X
ClientSampleId :
FA19-JBW7345A-9001

Tot Ion:117 Resp: 251246
Ion Ratio Lower Upper
117 100
82 56.7 44.1 66.1
119 32.3 25.8 38.8

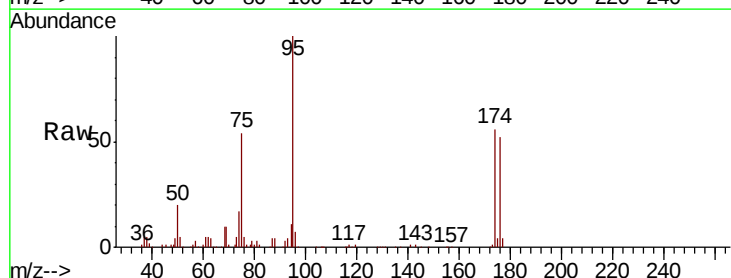


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

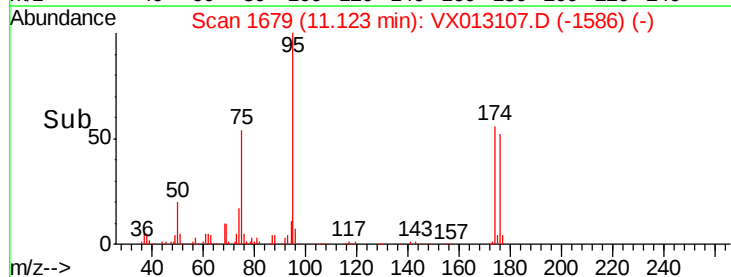
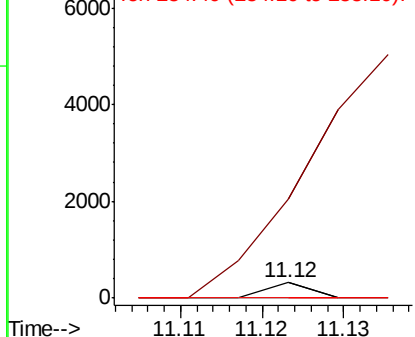


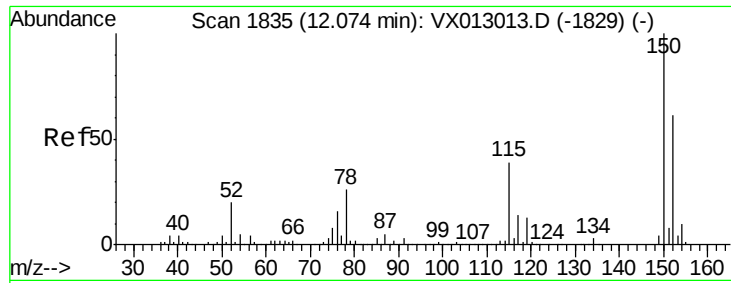
#71
Bromoform
Concen: 3.207 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX013107.D
Acq: 17 Oct 2019 15:11

Tgt Ion:173 Resp: 116
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7345A-9001

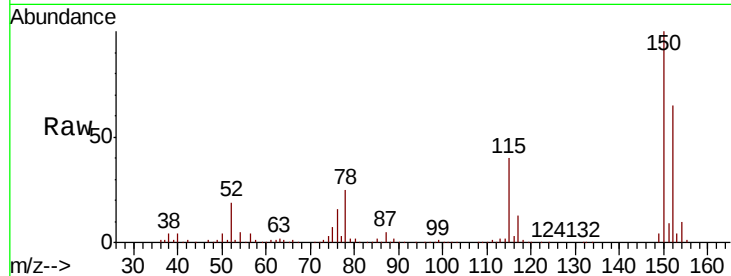
Tot Ion:152 Resp: 101372

Ion Ratio Lower Upper

152 100

115 61.7 44.5 133.5

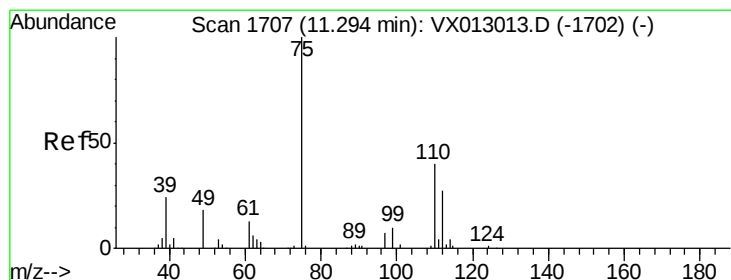
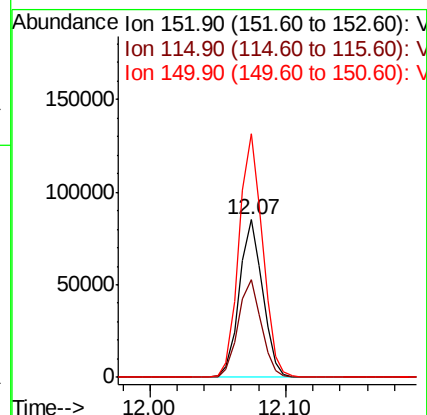
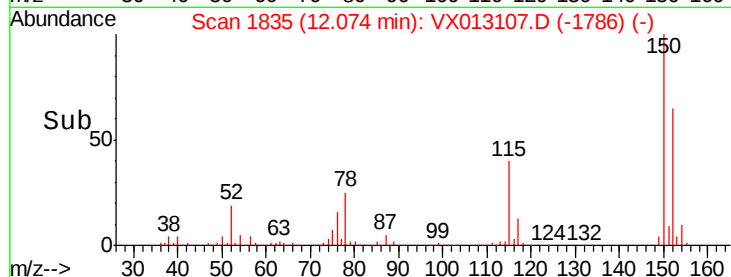
150 156.7 0.0 353.4



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



#76

1,2,3-Trichloropropane

Concen: 25.948 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013107.D

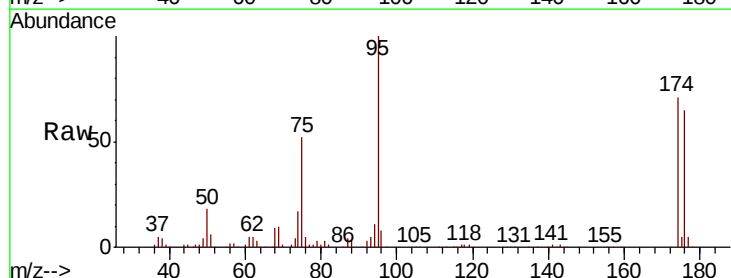
Acq: 17 Oct 2019 15:11

Tgt Ion: 75 Resp: 58343

Ion Ratio Lower Upper

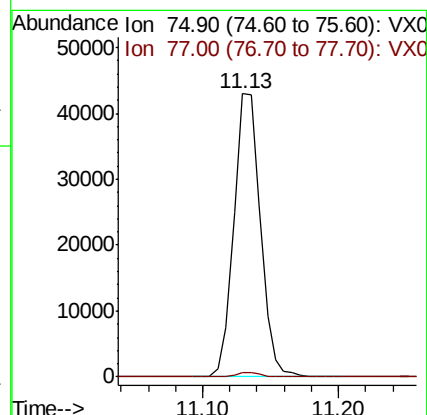
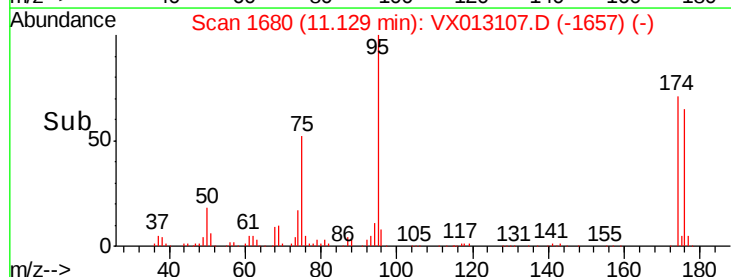
75 100

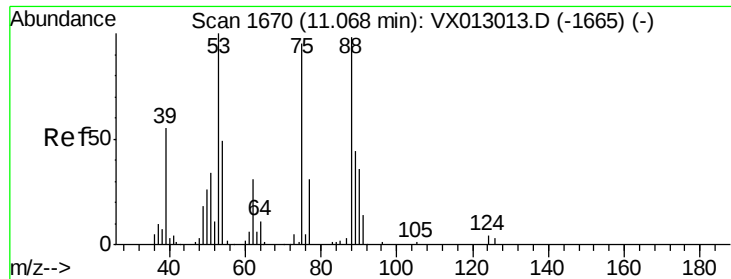
77 1.4 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.360 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013107.D

Acq: 17 Oct 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

FA19-JBW7345A-9001

Tot Ion: 75 Resp: 58343

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

