

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX012991.D
 Acq On : 10 Oct 2019 13:24
 Operator : JC/SP
 Sample : K5291-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1881

Quant Time: Oct 11 04:36:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	182142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	301840	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100426	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	118921	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
35) Dibromofluoromethane	5.49	113	90239	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
50) Toluene-d8	8.71	98	356455	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	11.14	95	121222	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	

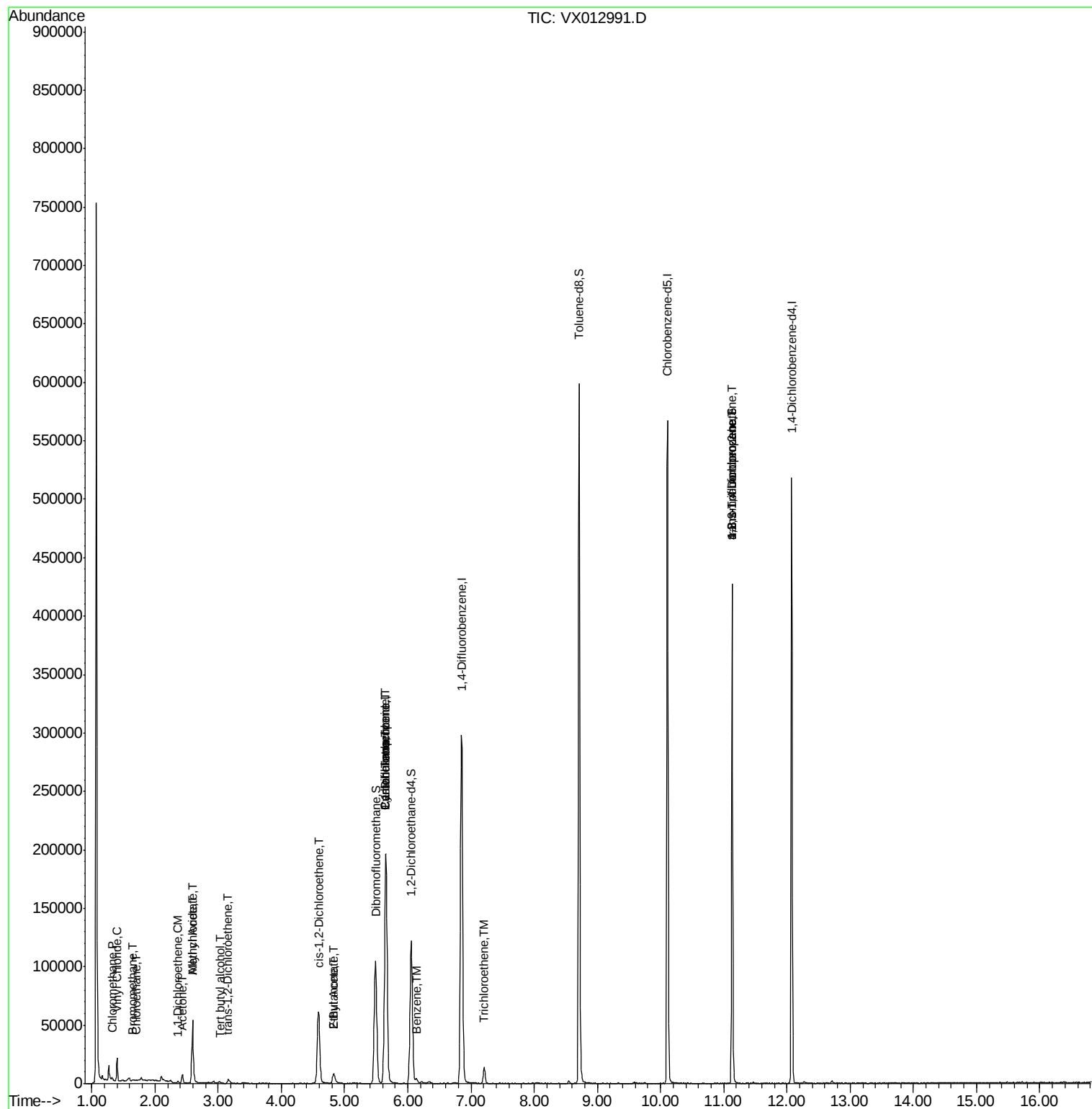
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1430	0.708	ug/l	99
4) Vinyl Chloride	1.40	62	10854	5.204	ug/l	98
5) Bromomethane	1.64	94	197	0.227	ug/l #	75
6) Chloroethane	1.72	64	663	0.884	ug/l #	43
11) Tert butyl alcohol	3.03	59	1298	2.151	ug/l #	85
12) 1,1-Dichloroethene	2.36	96	433	0.235	ug/l #	53
14) Allyl chloride	2.59	41	5051	1.541	ug/l #	62
16) Acetone	2.44	43	7699	6.416	ug/l	95
18) Methyl Acetate	2.59	43	14713	5.173	ug/l #	51
21) trans-1,2-Dichloroethene	3.16	96	1335	0.677	ug/l #	81
25) 2-Butanone	4.83	43	15767	9.471	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	39143	17.213	ug/l	91
31) Cyclohexane	5.65	56	4151	1.256	ug/l #	19
36) 1,1-Dichloropropene	5.65	75	14247	5.369	ug/l #	45
37) Ethyl Acetate	4.83	43	15767	5.313	ug/l	99
38) Carbon Tetrachloride	5.65	117	19060	7.379	ug/l #	17
40) Benzene	6.14	78	4086	0.521	ug/l #	78
44) Trichloroethene	7.20	130	5741	2.641	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	60119	26.990	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	60119	67.820	ug/l #	10

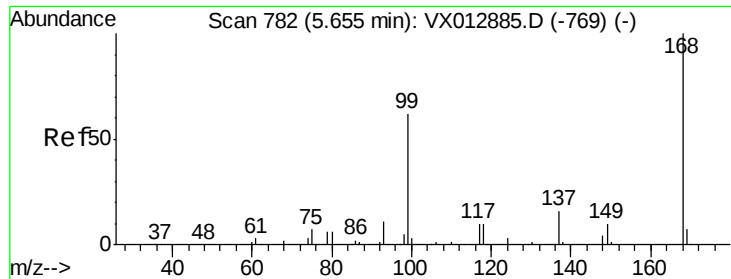
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

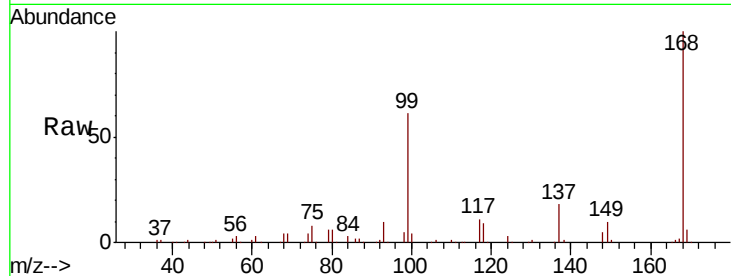
FA19-JMW1881

Tot Ion:168 Resp: 182142

Ion Ratio Lower Upper

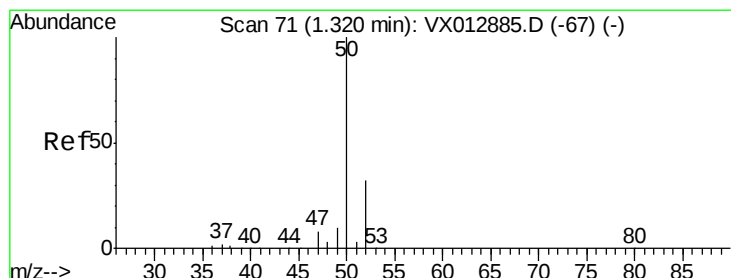
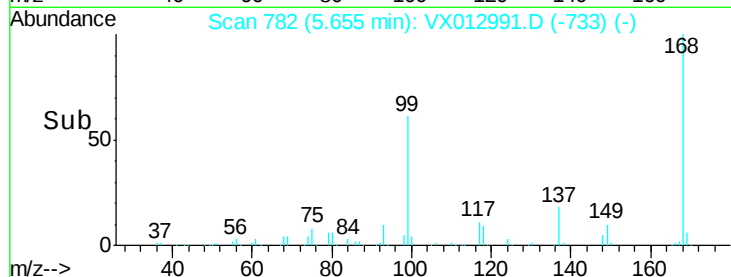
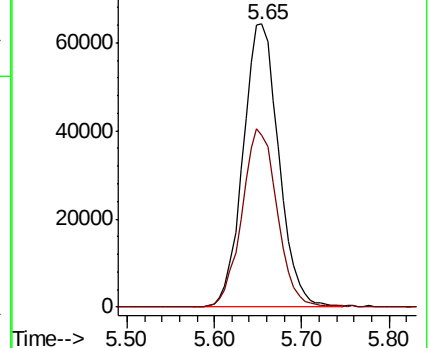
168 100

99 61.0 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.708 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012991.D

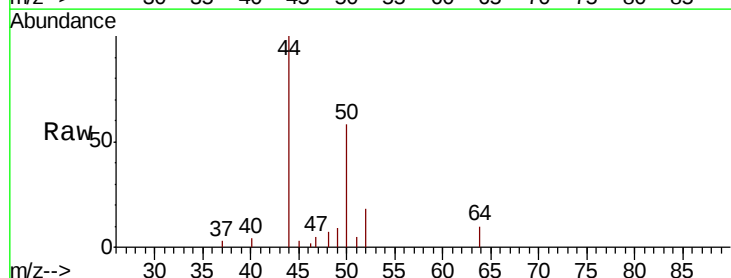
Acq: 10 Oct 2019 13:24

Tgt Ion: 50 Resp: 1430

Ion Ratio Lower Upper

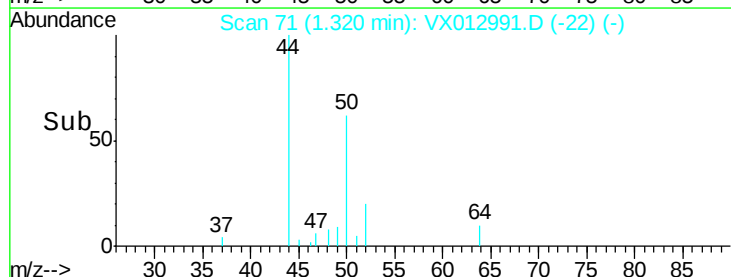
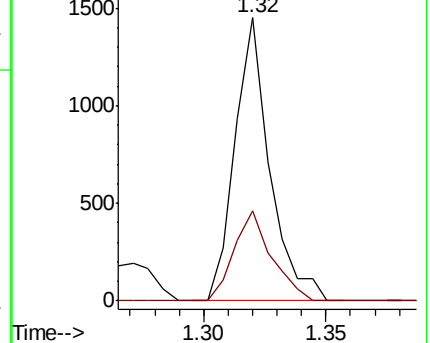
50 100

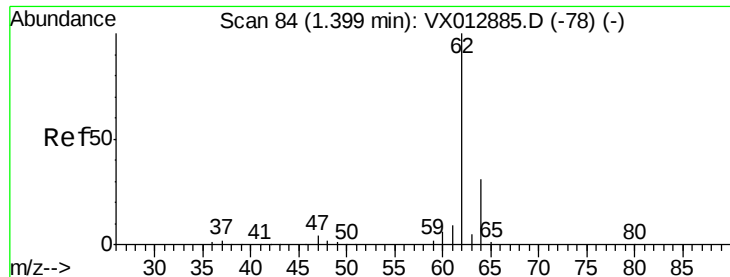
52 32.0 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 5.204 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

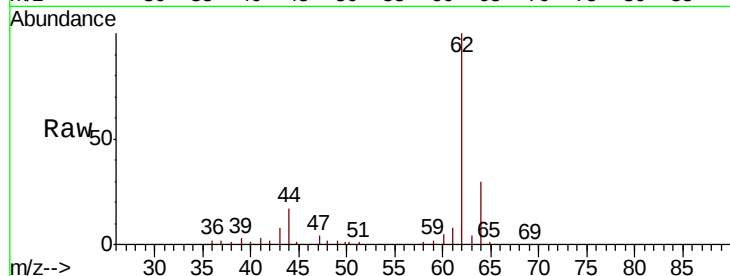
FA19-JMW1881

Tot Ion: 62 Resp: 10854

Ion Ratio Lower Upper

62 100

64 30.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

12000

10000

8000

6000

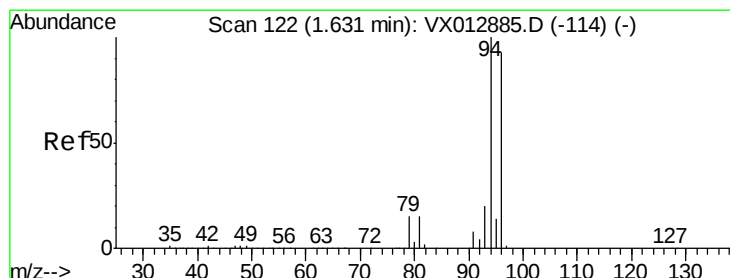
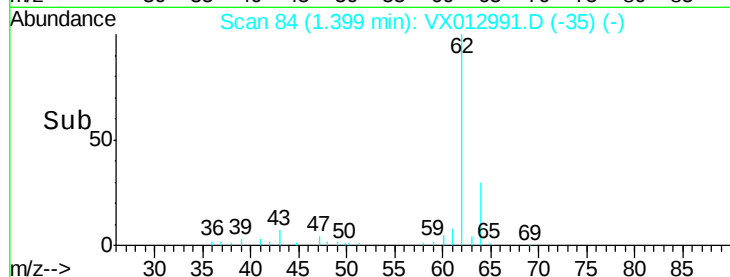
4000

2000

0

Time-->

1.35 1.40 1.45



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012991.D

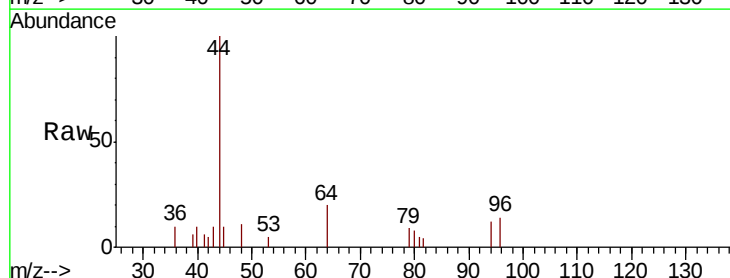
Acq: 10 Oct 2019 13:24

Tgt Ion: 94 Resp: 197

Ion Ratio Lower Upper

94 100

96 117.7 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

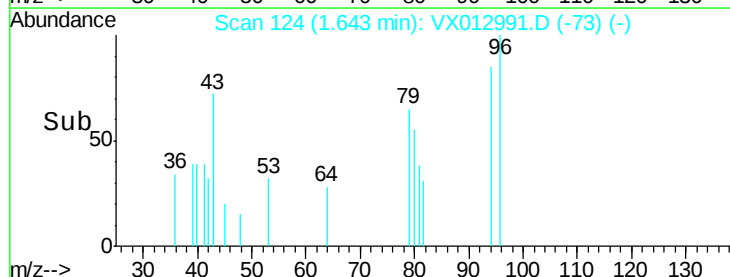
100

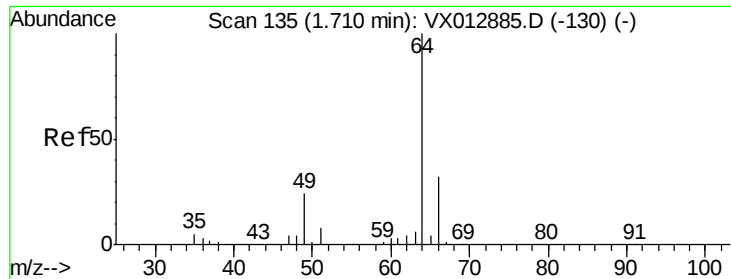
50

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 0.884 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

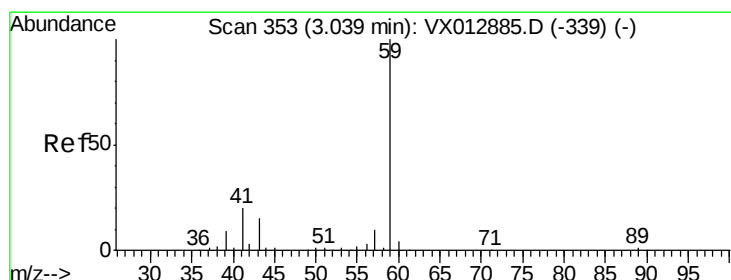
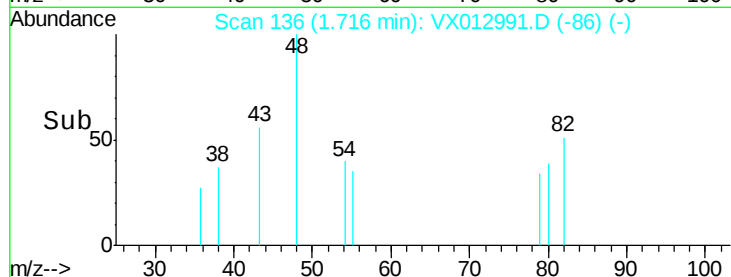
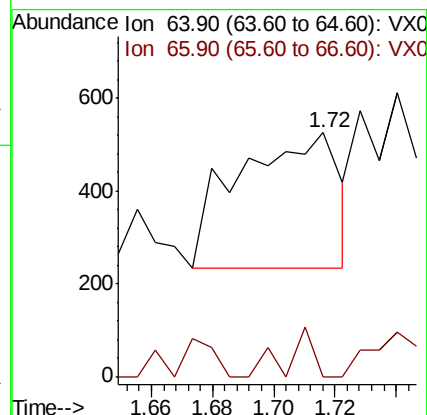
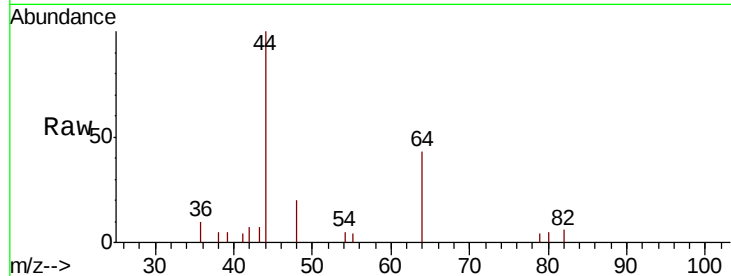
FA19-JMW1881

Tot Ion: 64 Resp: 663

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 2.151 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX012991.D

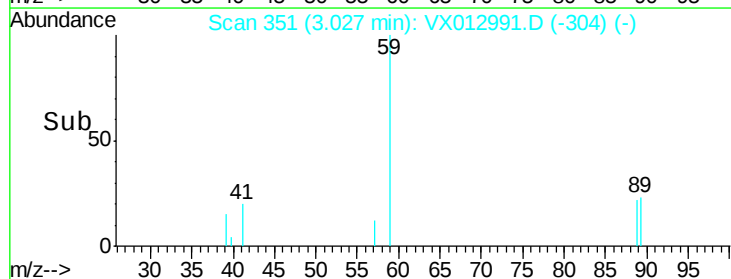
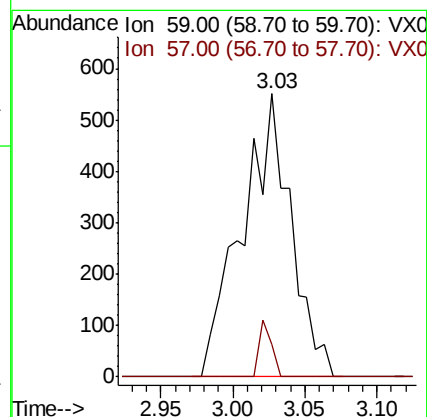
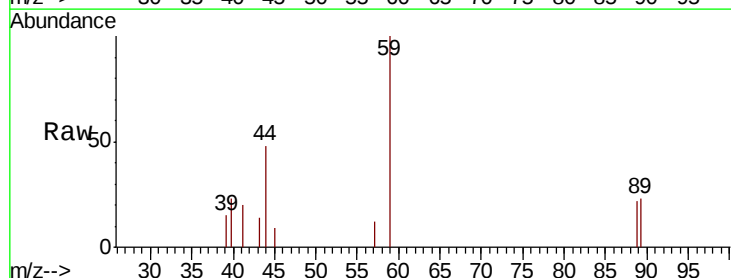
Acq: 10 Oct 2019 13:24

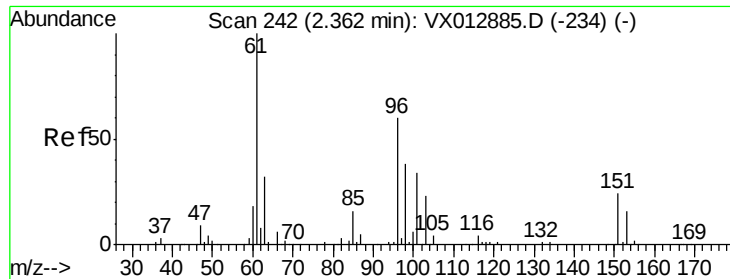
Tgt Ion: 59 Resp: 1298

Ion Ratio Lower Upper

59 100

57 4.9 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.235 ug/l

RT: 2.36 min Scan# 242

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW1881

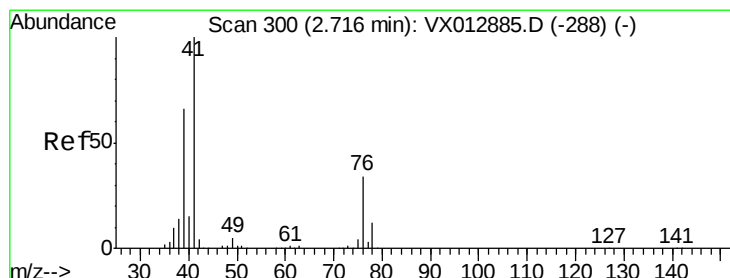
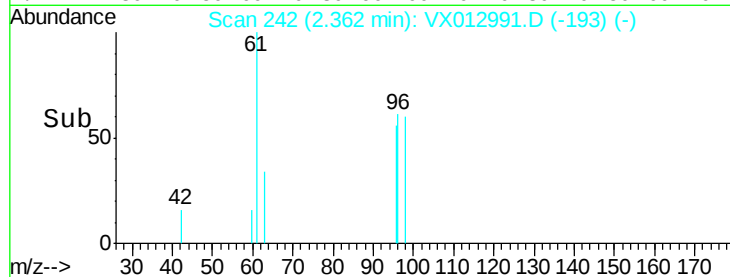
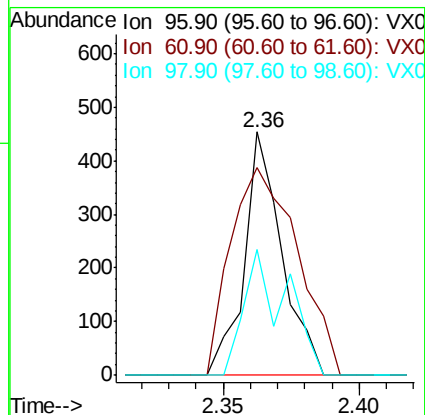
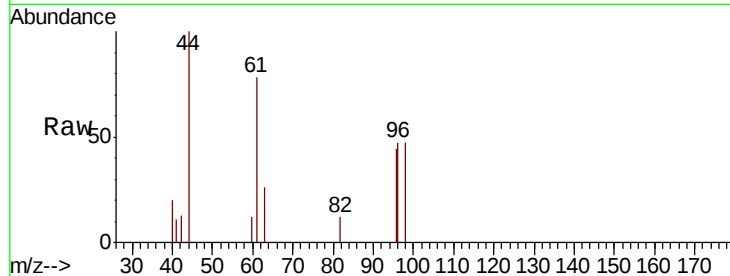
Tot Ion: 96 Resp: 433

Ion Ratio Lower Upper

96 100

61 85.5 132.2 198.4#

98 51.5 50.5 75.7



#14

Allyl chloride

Concen: 1.541 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

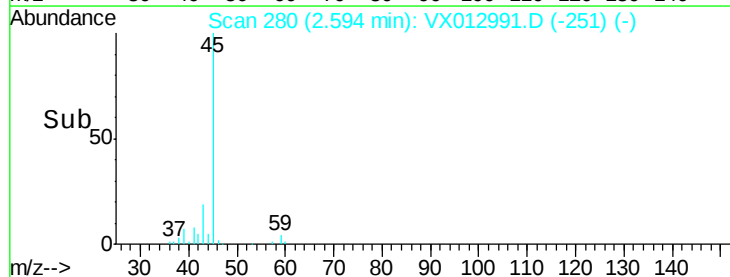
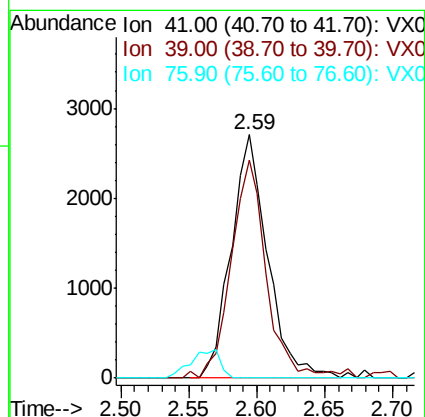
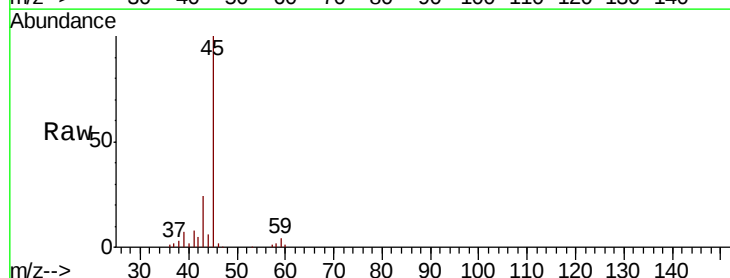
Tgt Ion: 41 Resp: 5051

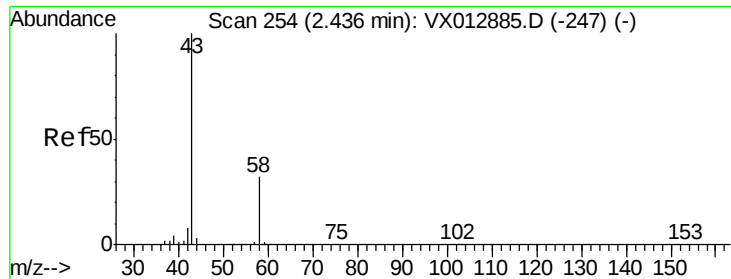
Ion Ratio Lower Upper

41 100

39 85.2 51.0 76.6#

76 0.0 26.2 39.4#





#16

Acetone

Concen: 6.416 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

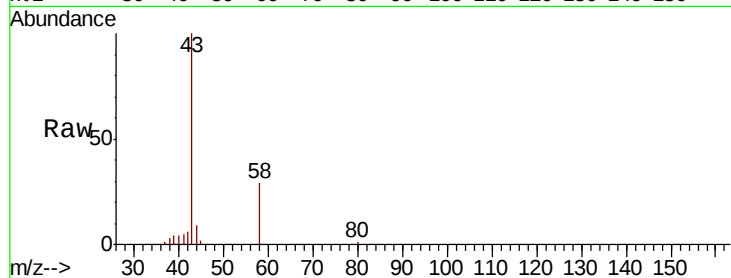
FA19-JMW1881

Tot Ion: 43 Resp: 7699

Ion Ratio Lower Upper

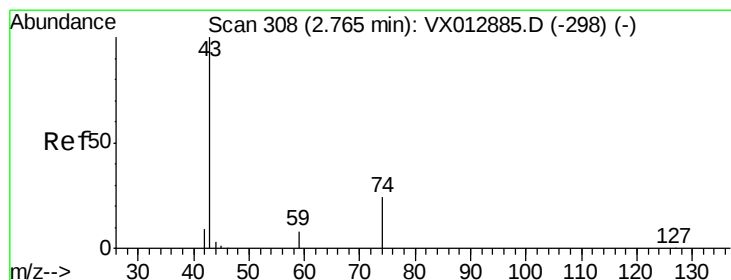
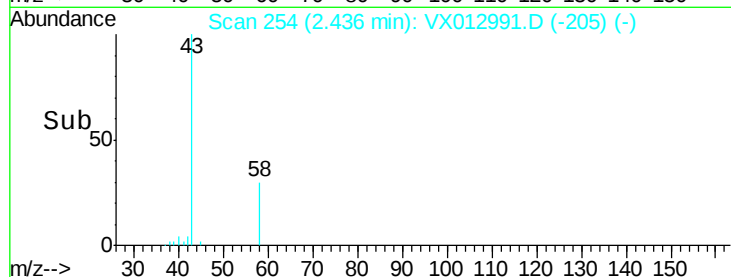
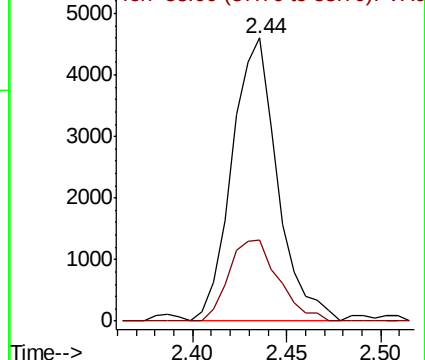
43 100

58 28.8 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: 5.173 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012991.D

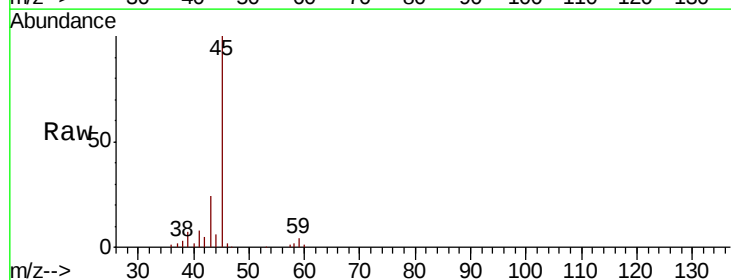
Acq: 10 Oct 2019 13:24

Tgt Ion: 43 Resp: 14713

Ion Ratio Lower Upper

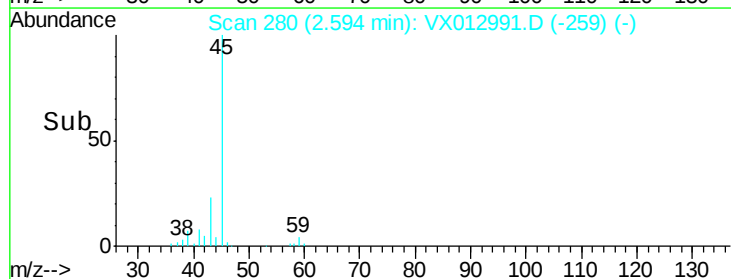
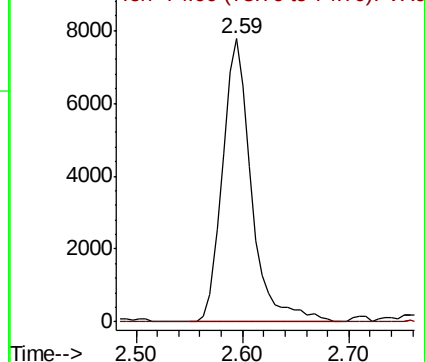
43 100

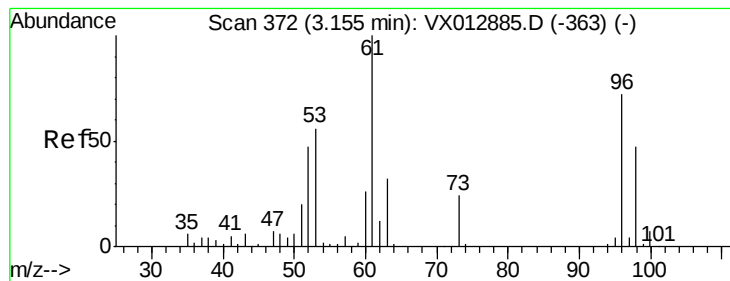
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.677 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

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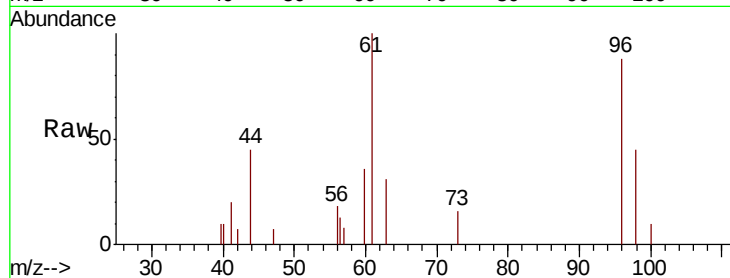
Tot Ion: 96 Resp: 1335

Ion Ratio Lower Upper

96 100

61 114.3 110.4 165.6

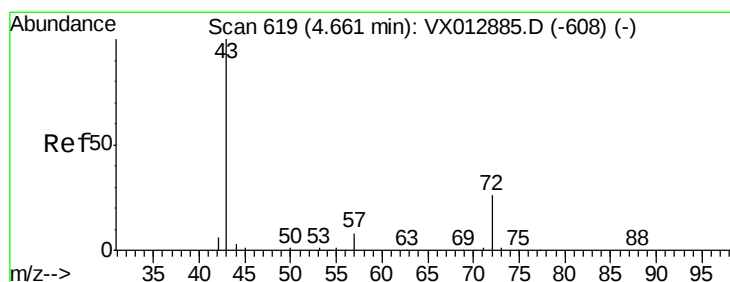
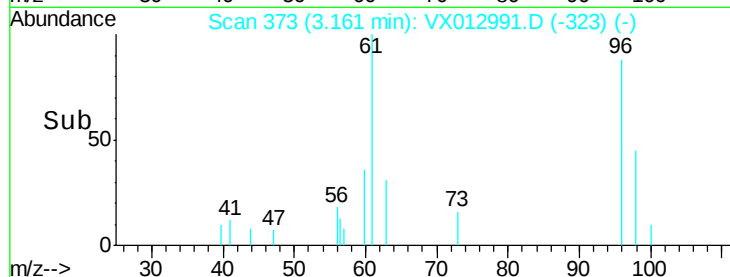
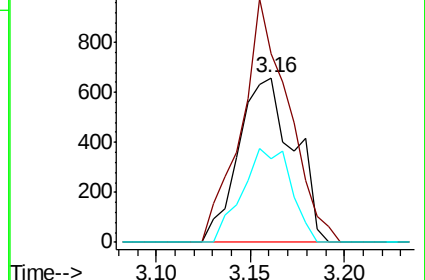
98 51.1 51.5 77.3#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 9.471 ug/l

RT: 4.83 min Scan# 646

Delta R.T. 0.16 min

Lab File: VX012991.D

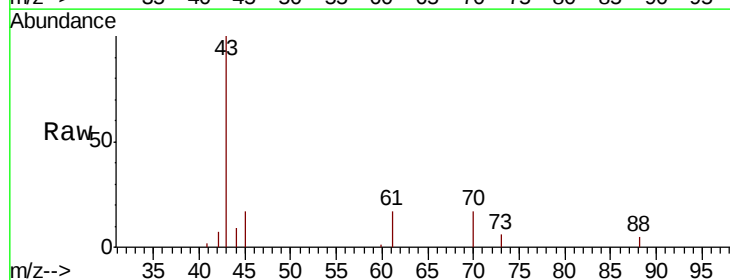
Acq: 10 Oct 2019 13:24

Tgt Ion: 43 Resp: 15767

Ion Ratio Lower Upper

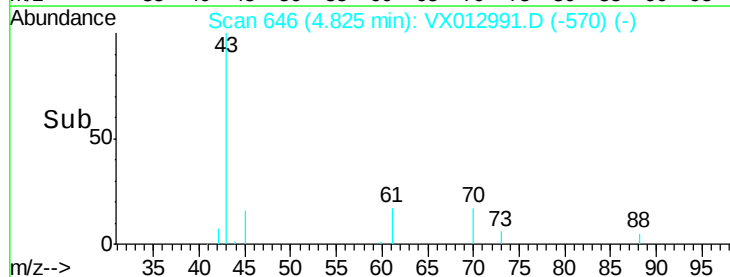
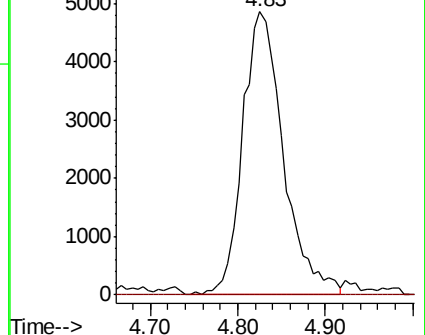
43 100

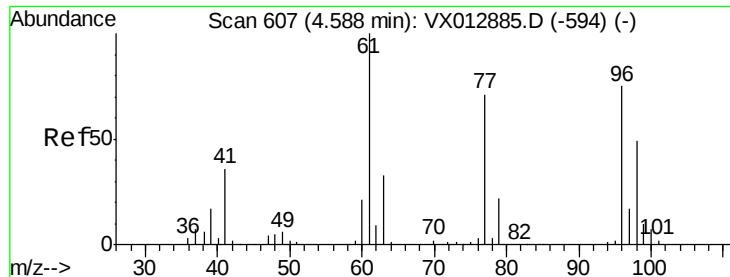
72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



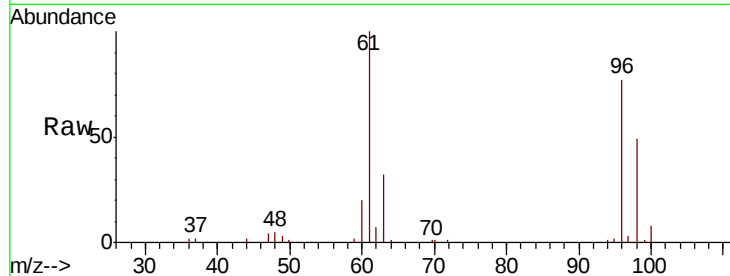


#27

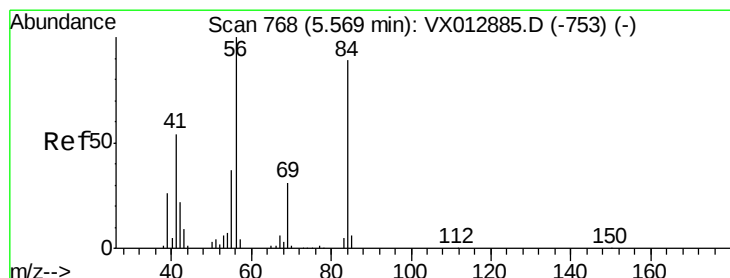
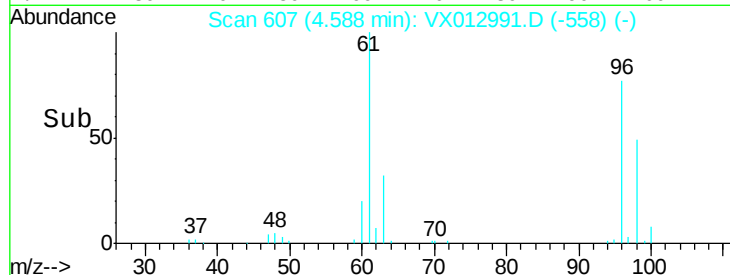
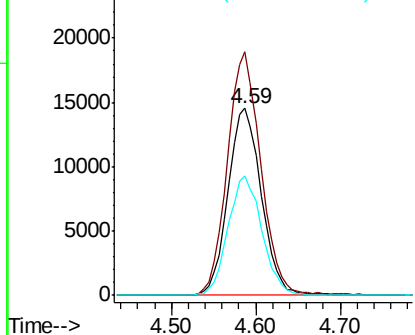
cis-1,2-Dichloroethene
 Concen: 17.213 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX012991.D
 Acq: 10 Oct 2019 13:24

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1881

Tot Ion: 96 Resp: 39143
 Ion Ratio Lower Upper
 96 100
 61 130.0 0.0 290.6
 98 64.3 0.0 128.8



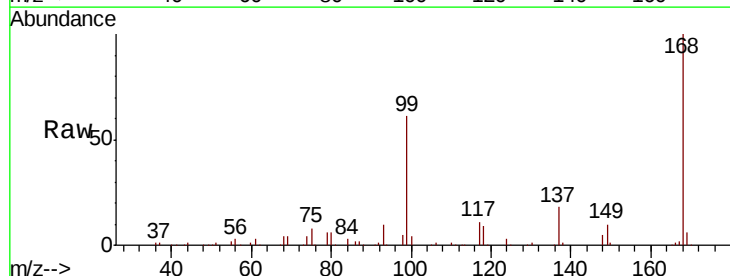
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



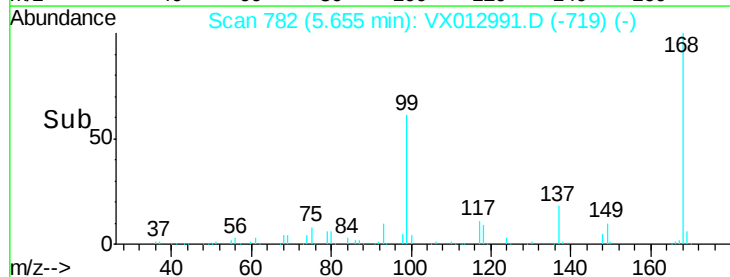
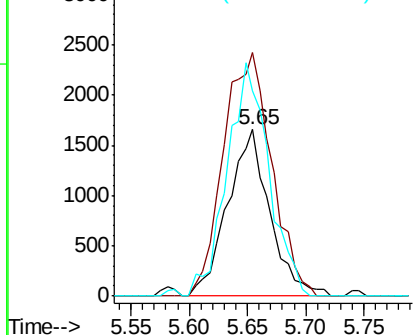
#31

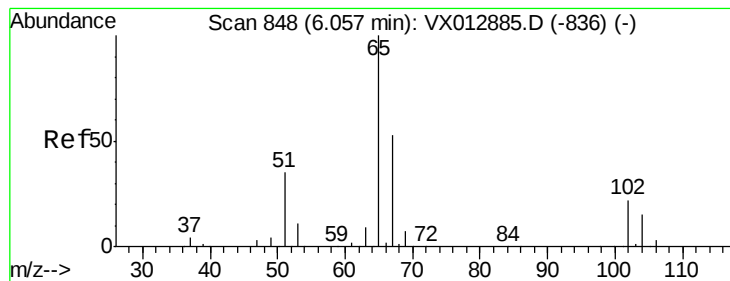
Cyclohexane
 Concen: 1.256 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.09 min
 Lab File: VX012991.D
 Acq: 10 Oct 2019 13:24

Tgt Ion: 56 Resp: 4151
 Ion Ratio Lower Upper
 56 100
 69 146.2 25.2 37.8#
 84 123.0 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





#33

1,2-Dichloroethane-d4

Concen: 52.238 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

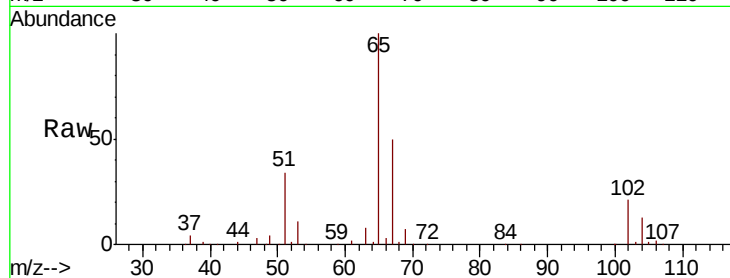
FA19-JMW1881

Tot Ion: 65 Resp: 118921

Ion Ratio Lower Upper

65 100

67 51.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

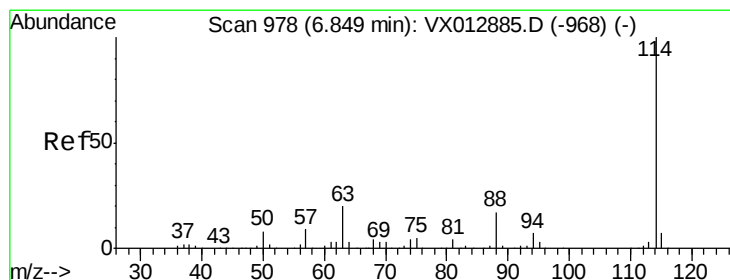
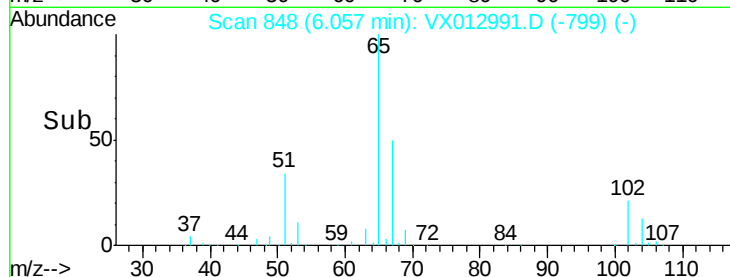
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

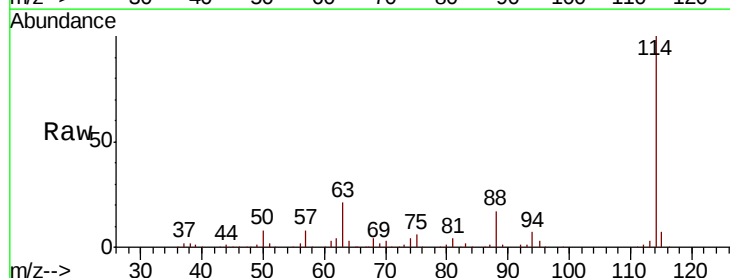
Tgt Ion: 114 Resp: 301840

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 17.2 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

6.85

150000

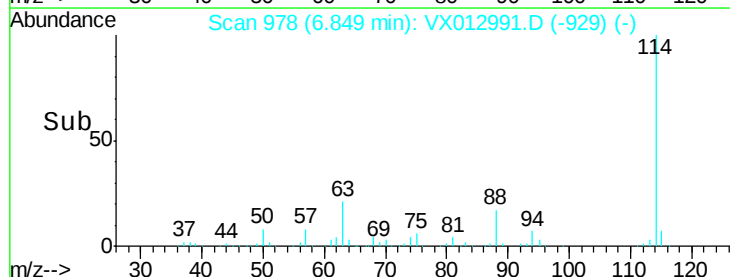
100000

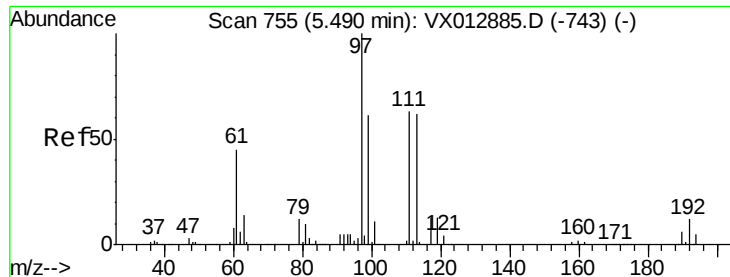
50000

0

Time-->

6.80 6.90

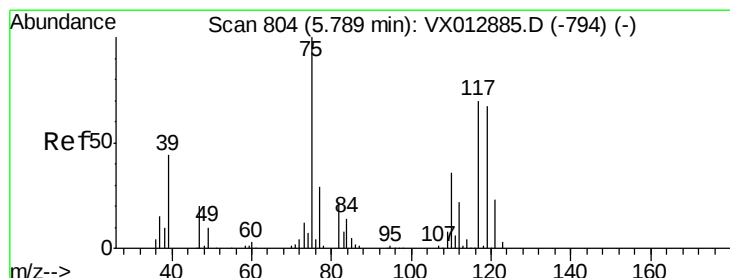
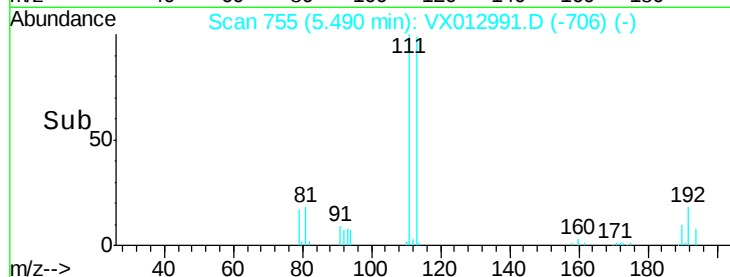
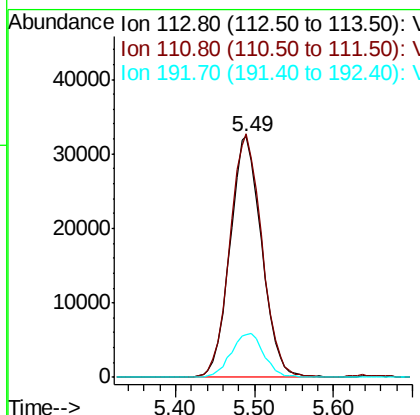
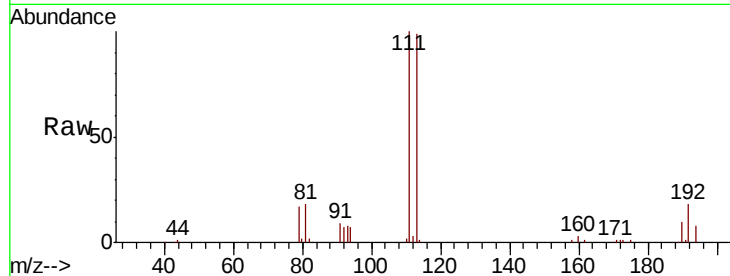




#35
Dibromofluoromethane
Concen: 52.089 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

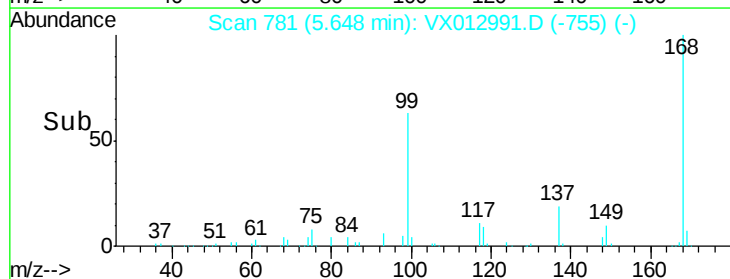
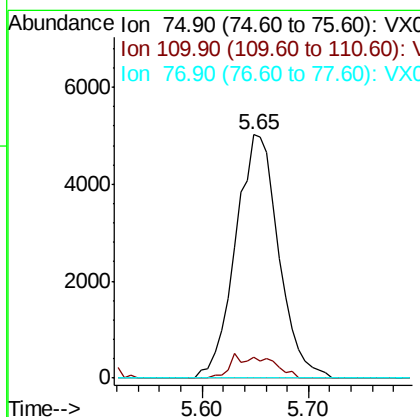
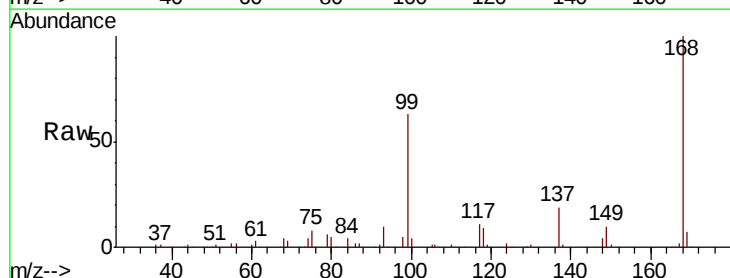
Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW1881

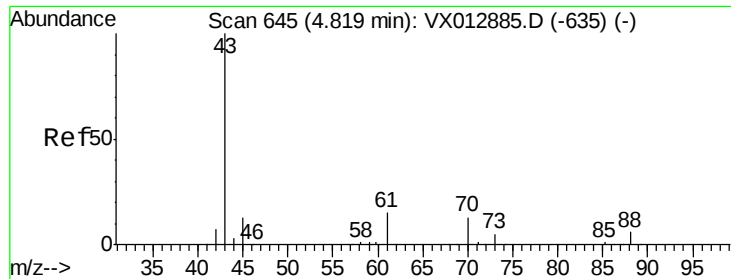
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.2	124.8
192	18.9	15.4	23.2



#36
1,1-Dichloropropene
Concen: 5.369 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.9	17.6	52.9#
77	0.0	24.4	36.6#

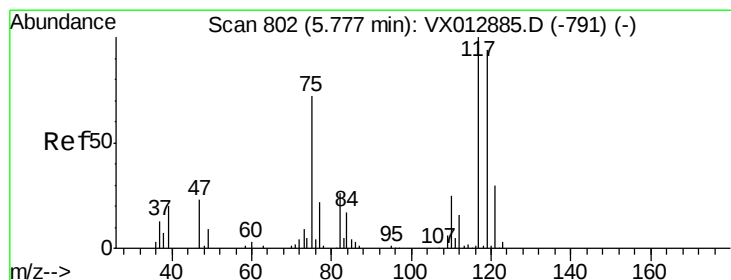
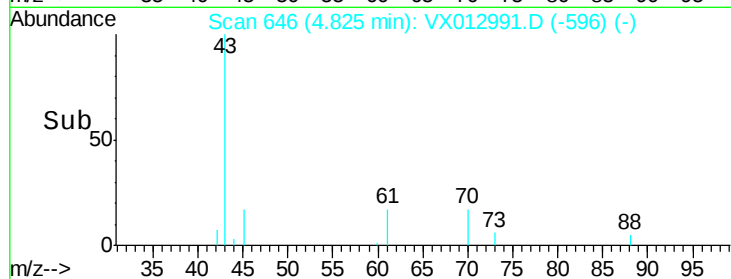
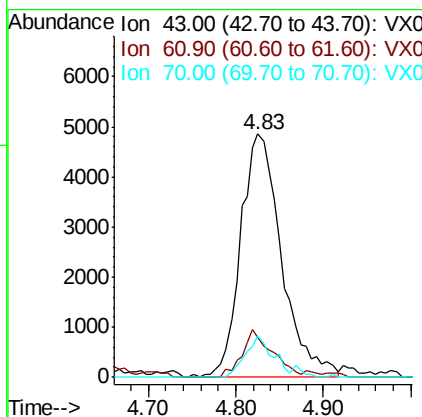
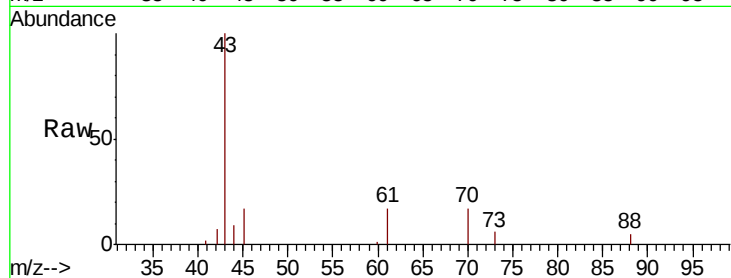




#37
Ethyl Acetate
Concen: 5.313 ug/l
RT: 4.83 min Scan# 646
Delta R.T. 0.01 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

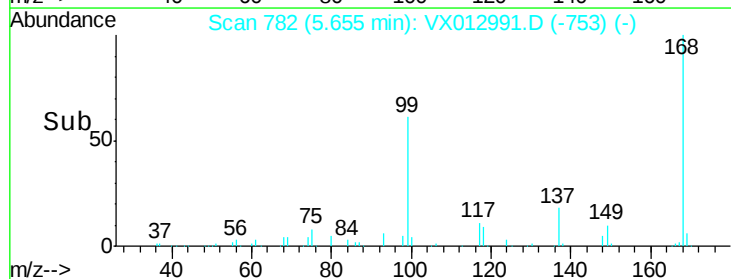
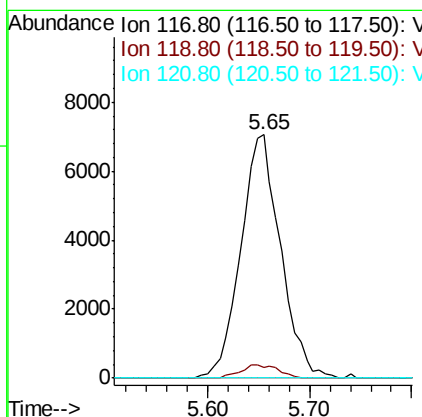
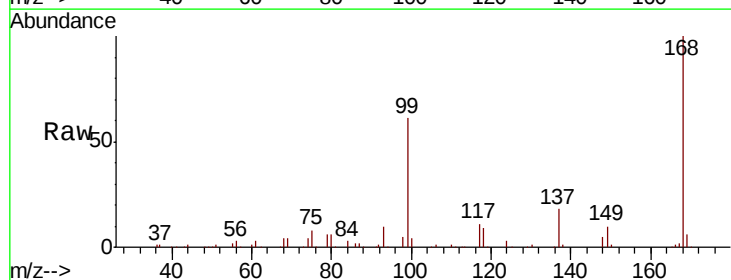
Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW1881

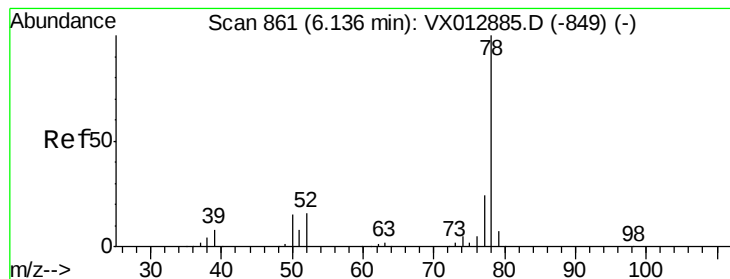
Tot Ion: 43 Resp: 15767
Ion Ratio Lower Upper
43 100
61 14.4 11.4 17.0
70 11.4 9.8 14.6



#38
Carbon Tetrachloride
Concen: 7.379 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

Tgt Ion: 117 Resp: 19060
Ion Ratio Lower Upper
117 100
119 4.3 74.5 111.7#
121 0.0 24.2 36.4#





#40

Benzene

Concen: 0.521 ug/l

RT: 6.14 min Scan# 861

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

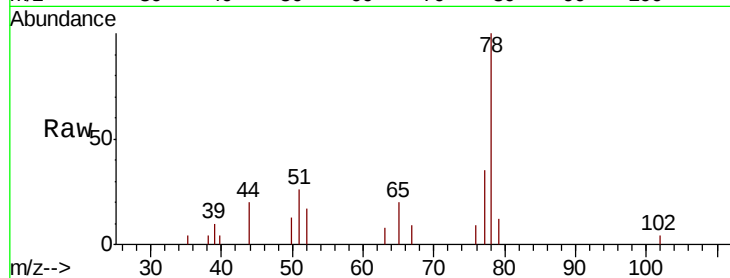
FA19-JMW1881

Tot Ion: 78 Resp: 4086

Ion Ratio Lower Upper

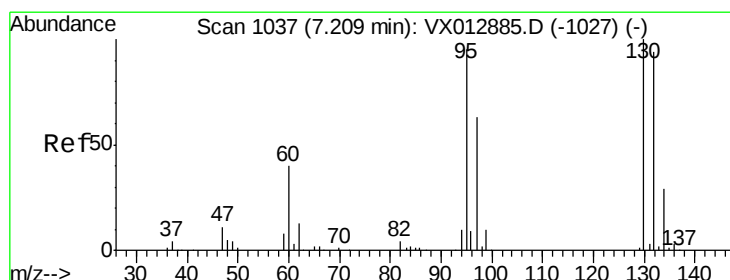
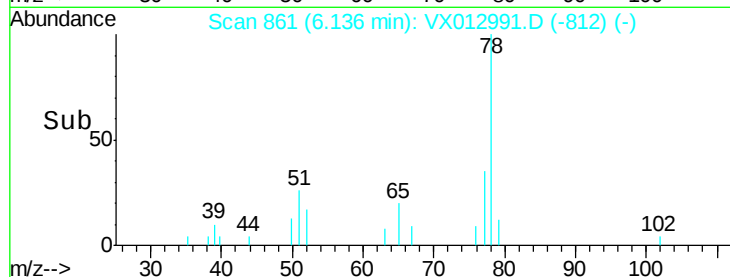
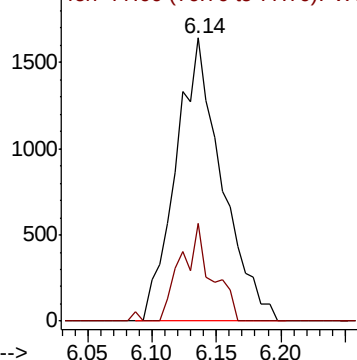
78 100

77 34.7 19.0 28.4#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 2.641 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX012991.D

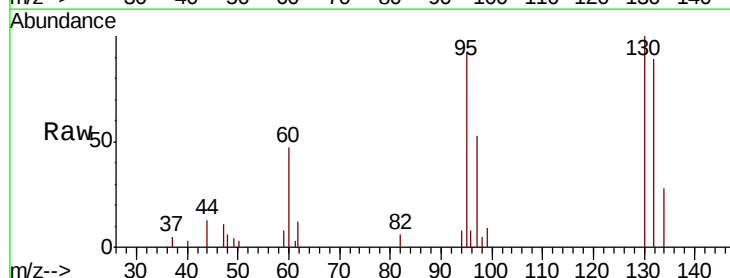
Acq: 10 Oct 2019 13:24

Tgt Ion: 130 Resp: 5741

Ion Ratio Lower Upper

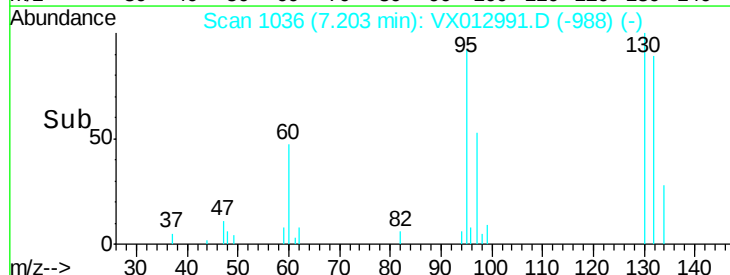
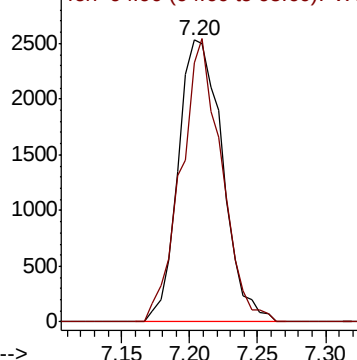
130 100

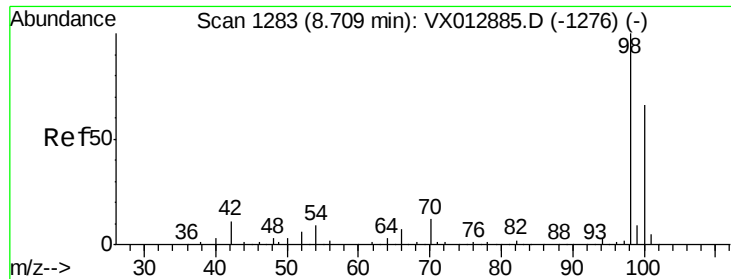
95 91.9 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 52.755 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

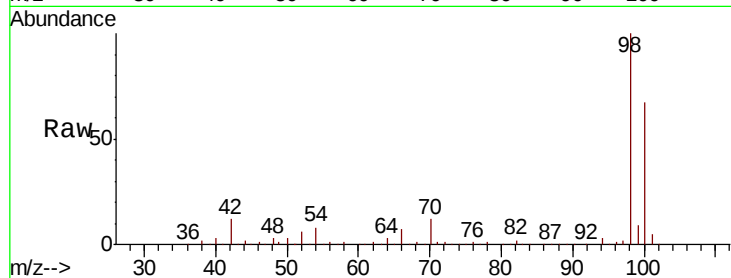
FA19-JMW1881

Tot Ion: 98 Resp: 356455

Ion Ratio Lower Upper

98 100

100 67.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

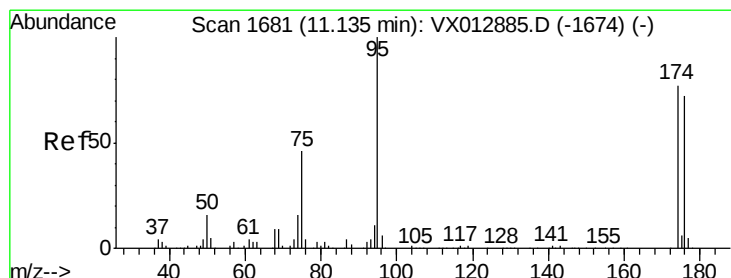
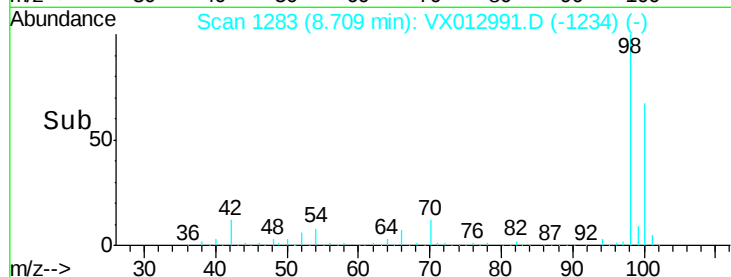
100000

50000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.173 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

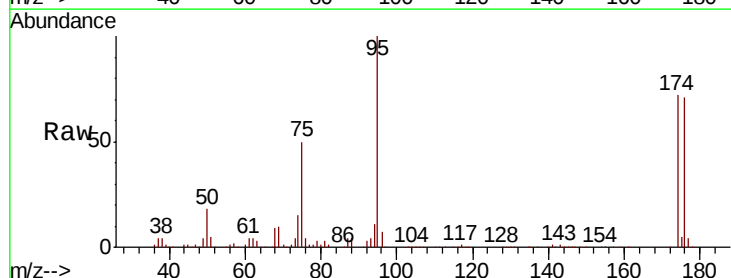
Tgt Ion: 95 Resp: 121222

Ion Ratio Lower Upper

95 100

174 70.7 0.0 143.4

176 69.1 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

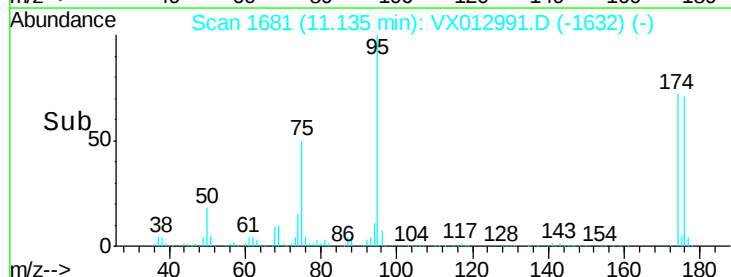
40000

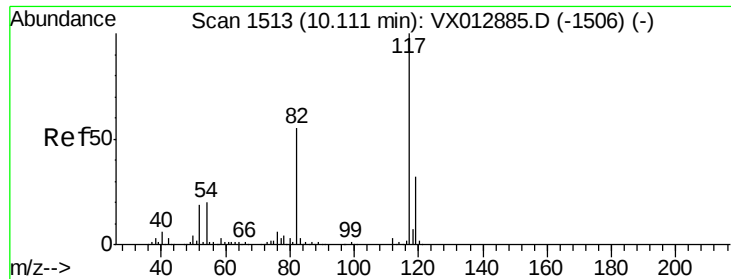
20000

0

Time-->

11.10 11.20

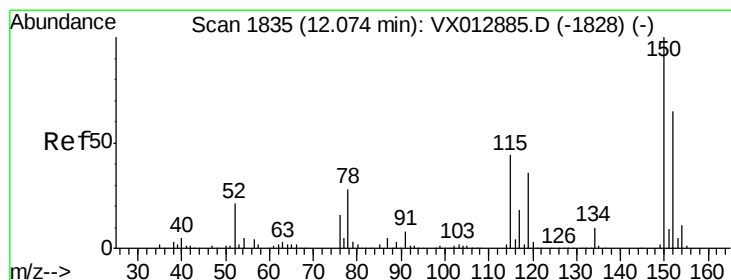
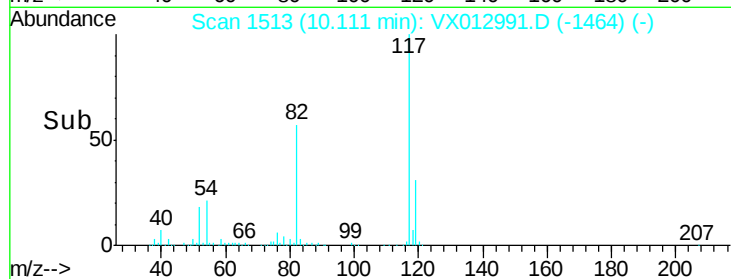
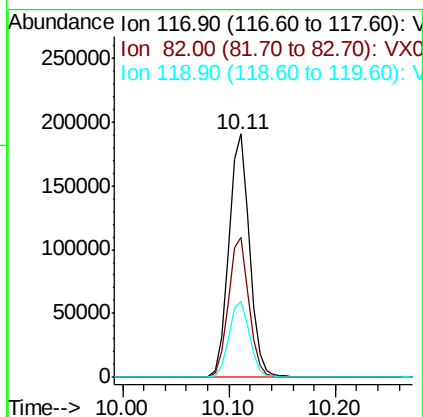
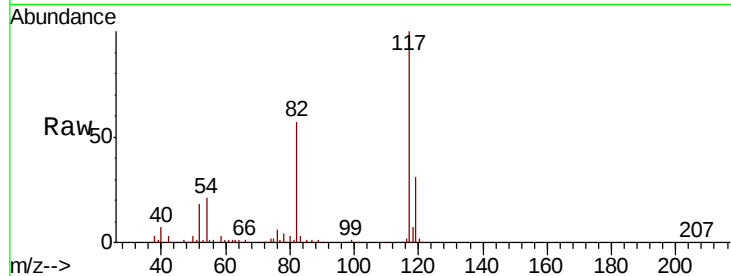




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

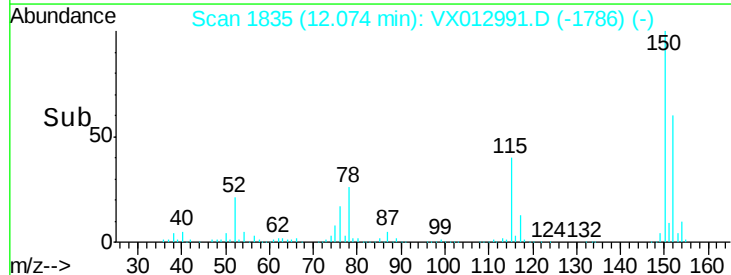
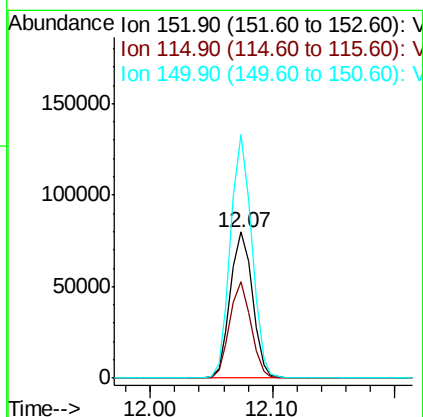
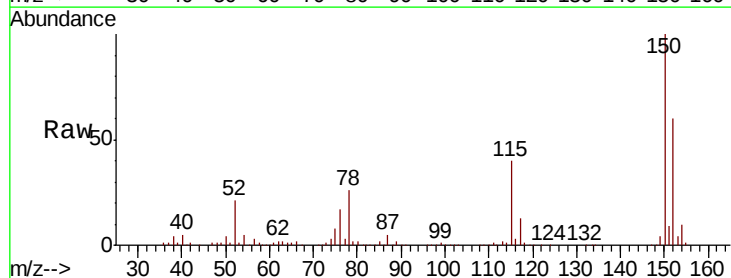
Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW1881

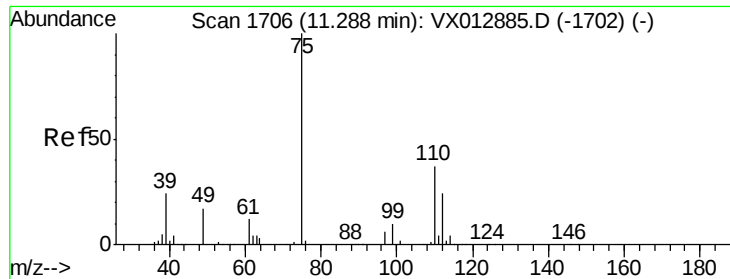
Tot Ion:117 Resp: 259640
Ion Ratio Lower Upper
117 100
82 57.5 44.1 66.1
119 31.3 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012991.D
Acq: 10 Oct 2019 13:24

Tgt Ion:152 Resp: 100426
Ion Ratio Lower Upper
152 100
115 63.2 44.5 133.5
150 159.0 0.0 353.4





#76

1,2,3-Trichloropropane

Concen: 26.990 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

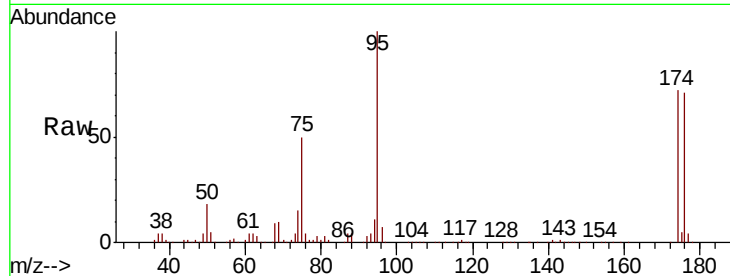
FA19-JMW1881

Tot Ion: 75 Resp: 60119

Ion Ratio Lower Upper

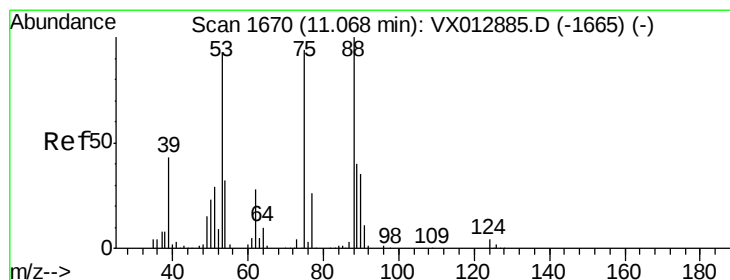
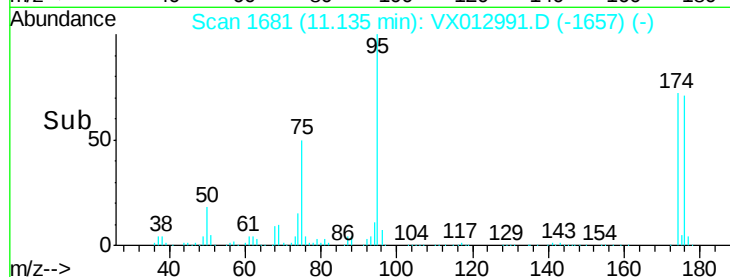
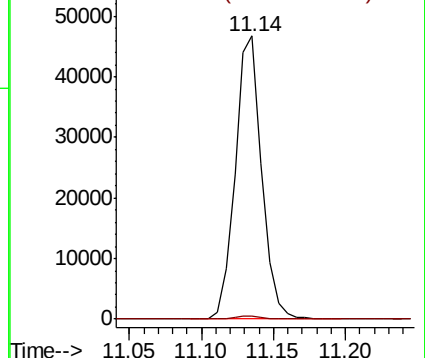
75 100

77 1.2 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: 67.820 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012991.D

Acq: 10 Oct 2019 13:24

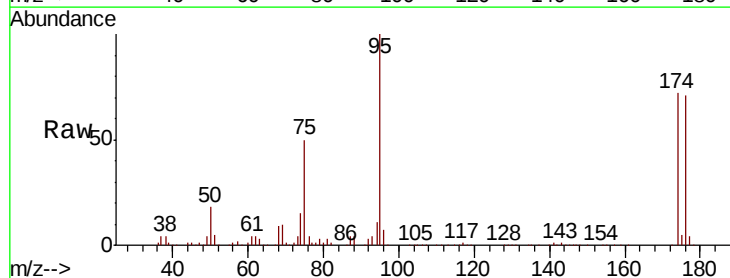
Tgt Ion: 75 Resp: 60119

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

