

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101719\
 Data File : VX013115.D
 Acq On : 17 Oct 2019 18:18
 Operator : JC/SP
 Sample : K5414-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

Quant Time: Oct 18 08:05:12 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	161842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	261335	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	214841	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	78490	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	98999	48.94	ug/l	0.00
Spiked Amount			Recovery	=	97.88%	
35) Dibromofluoromethane	5.49	113	77677	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
50) Toluene-d8	8.71	98	302247	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	11.13	95	94348	41.51	ug/l	0.00
Spiked Amount			Recovery	=	83.02%	

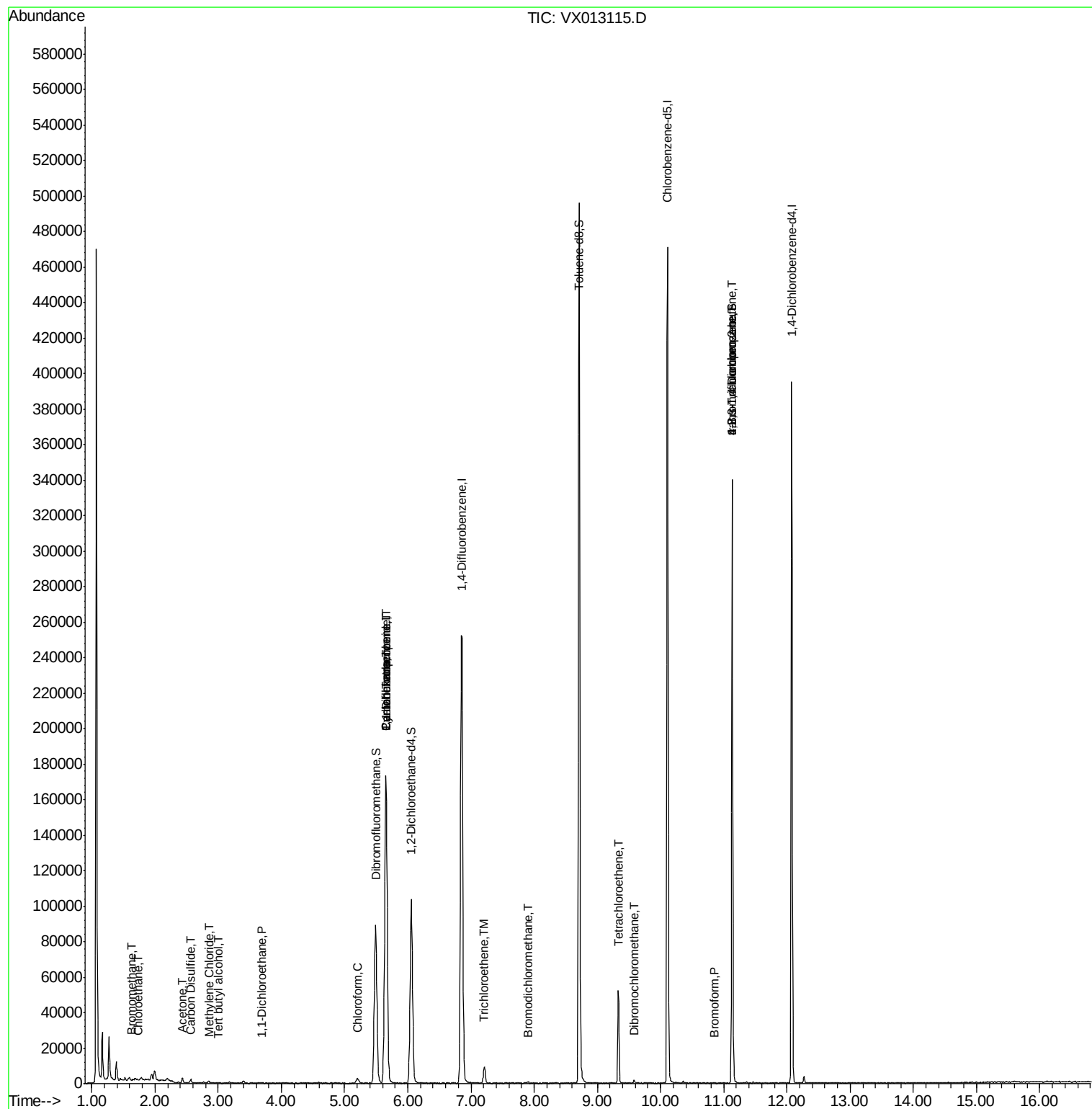
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	161	0.209	ug/l	93
6) Chloroethane	1.74	64	213	0.554	ug/l #	43
11) Tert butyl alcohol	3.01	59	115	0.214	ug/l #	72
16) Acetone	2.44	43	2610	2.448	ug/l	97
17) Carbon Disulfide	2.56	76	3033	0.650	ug/l	99
20) Methylene Chloride	2.86	84	494	0.252	ug/l #	70
24) 1,1-Dichloroethane	3.69	63	674	0.215	ug/l #	81
28) Bromochloromethane	5.21	49	193	Below Cal	#	13
30) Chloroform	5.20	83	3285	1.020	ug/l	92
31) Cyclohexane	5.65	56	3494	1.190	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12492	5.437	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16546	7.398	ug/l #	17
44) Trichloroethene	7.20	130	3850	2.046	ug/l	93
47) Bromodichloromethane	7.91	83	808	0.359	ug/l #	59
60) Dibromochloromethane	9.58	129	692	2.205	ug/l	73
64) Tetrachloroethene	9.33	164	9721	6.524	ug/l	97
71) Bromoform	10.85	173	114	3.218	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	46813	26.890	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	46813	67.583	ug/l #	10

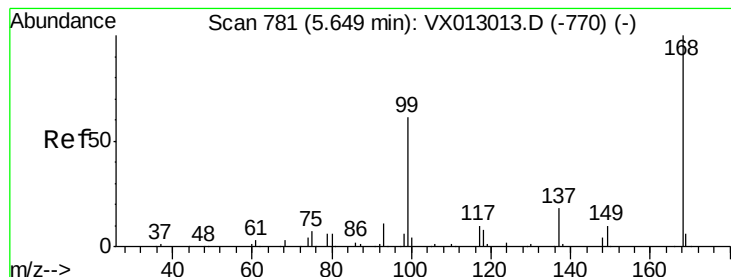
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

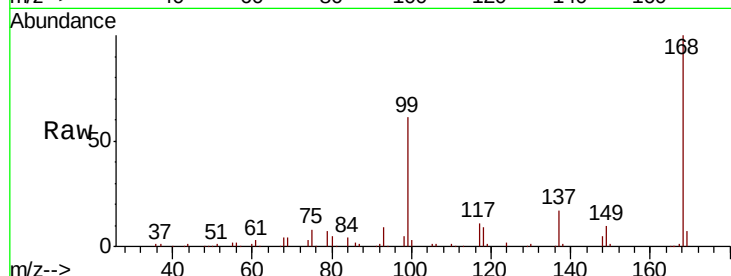
DUP-1-SRI4

Tot Ion:168 Resp: 161842

Ion Ratio Lower Upper

168 100

99 60.7 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

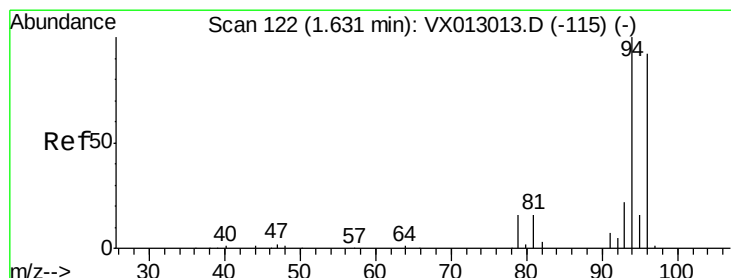
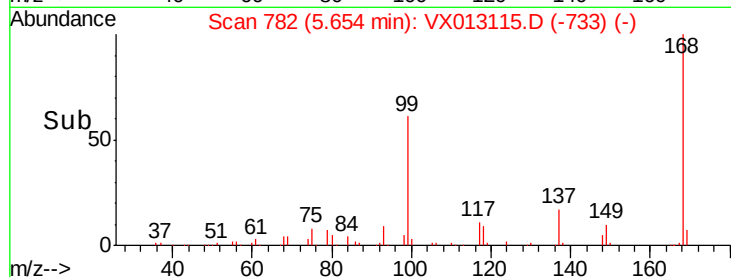
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.209 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013115.D

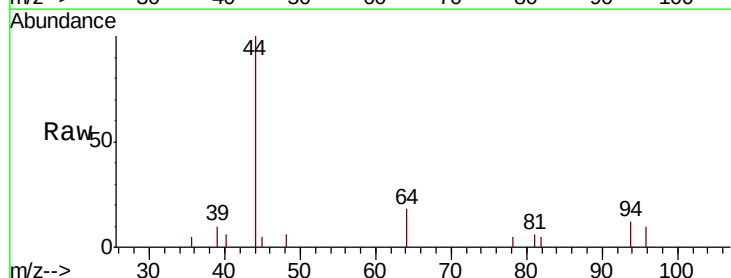
Acq: 17 Oct 2019 18:18

Tgt Ion: 94 Resp: 161

Ion Ratio Lower Upper

94 100

96 87.0 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

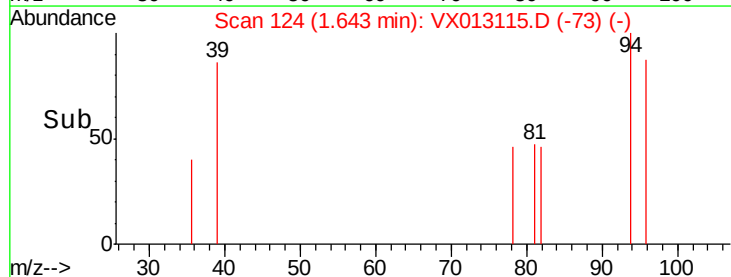
150

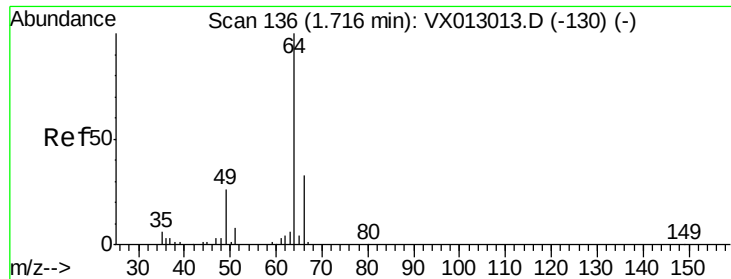
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.554 ug/l

RT: 1.74 min Scan# 140

Delta R.T. 0.03 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampled :

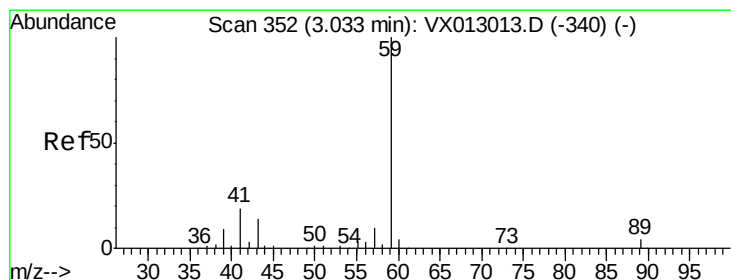
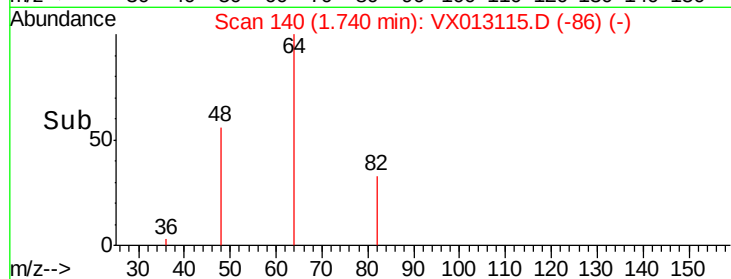
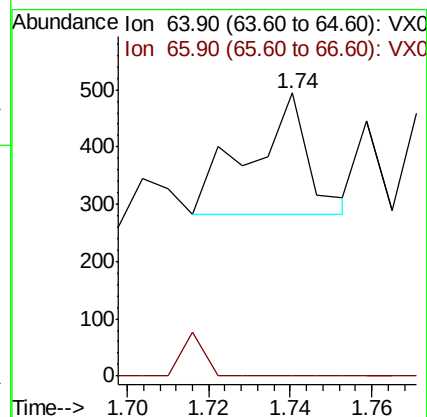
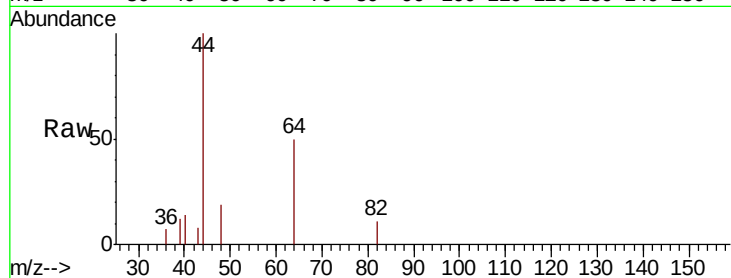
DUP-1-SRI4

Tot Ion: 64 Resp: 213

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#11

Tert butyl alcohol

Concen: 0.214 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013115.D

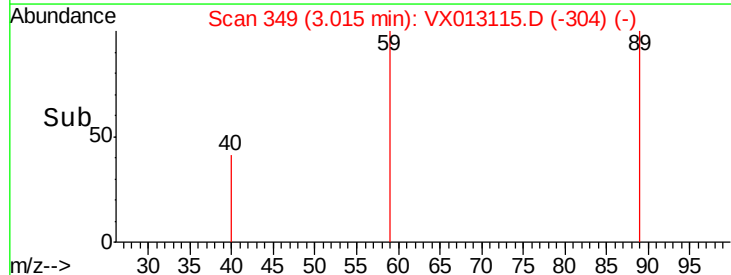
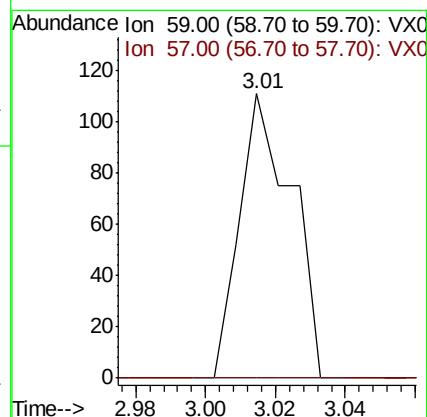
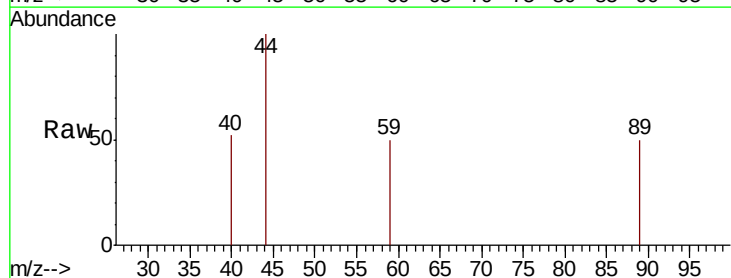
Acq: 17 Oct 2019 18:18

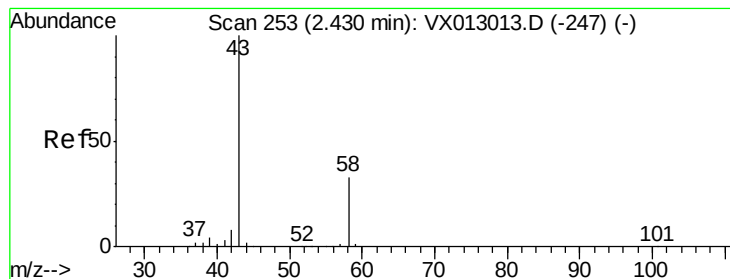
Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#16

Acetone

Concen: 2.448 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

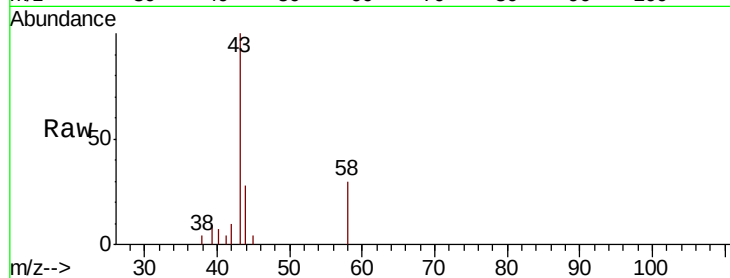
DUP-1-SRI4

Tot Ion: 43 Resp: 2610

Ion Ratio Lower Upper

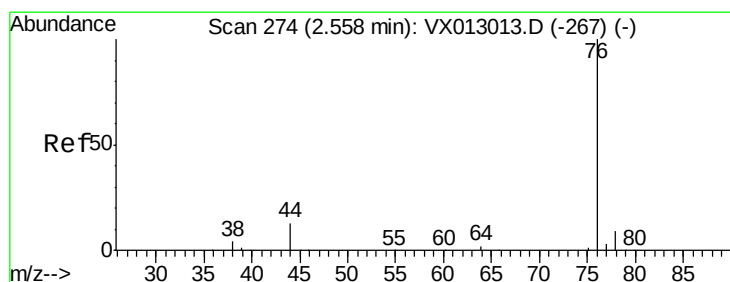
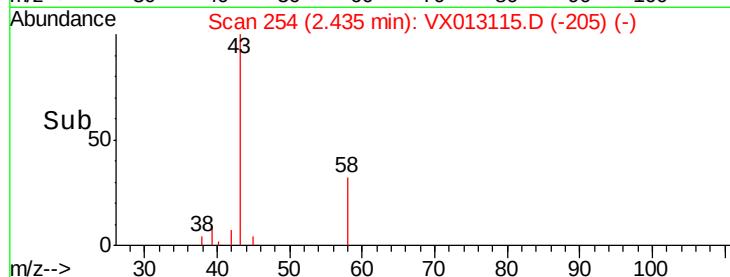
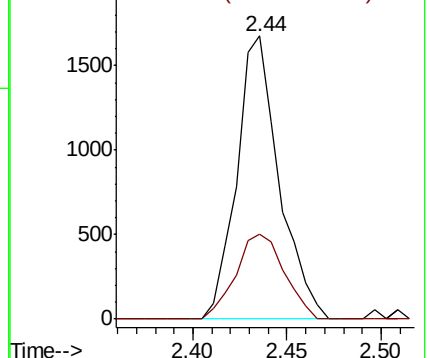
43 100

58 30.1 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.650 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013115.D

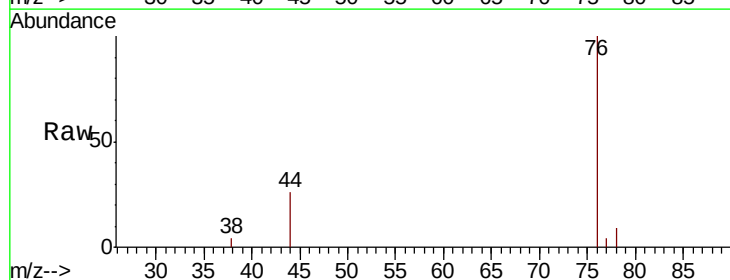
Acq: 17 Oct 2019 18:18

Tgt Ion: 76 Resp: 3033

Ion Ratio Lower Upper

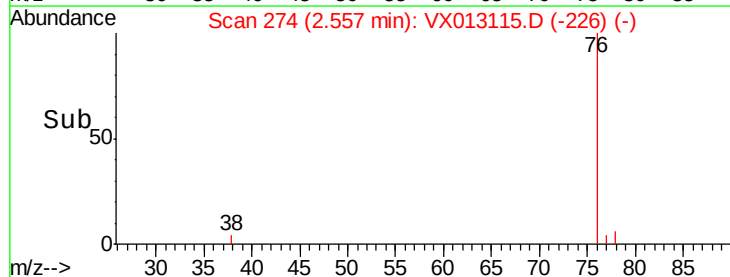
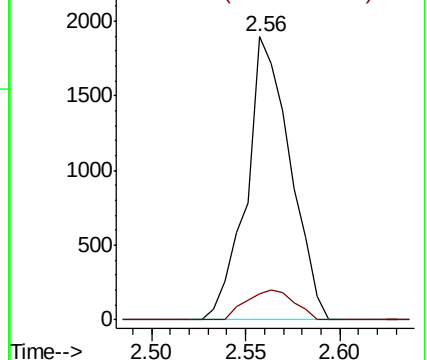
76 100

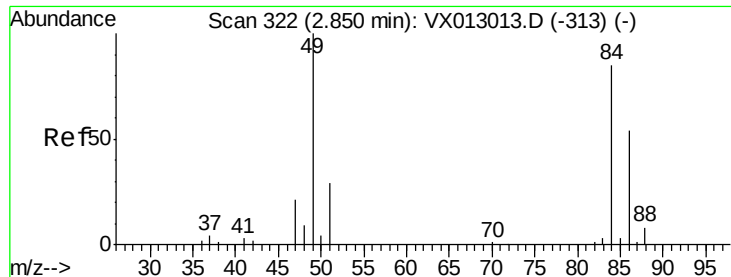
78 9.2 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

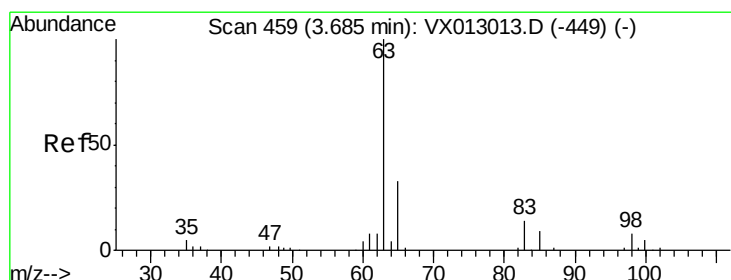
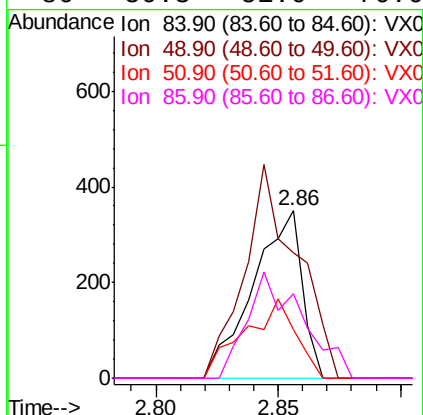
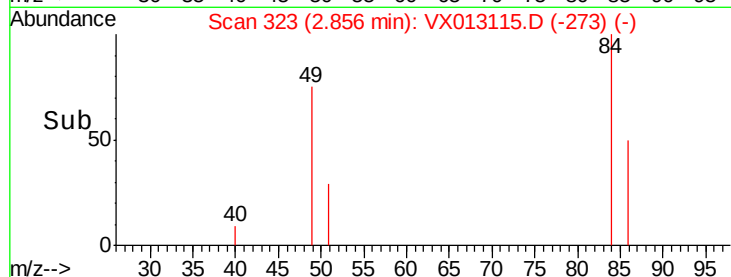
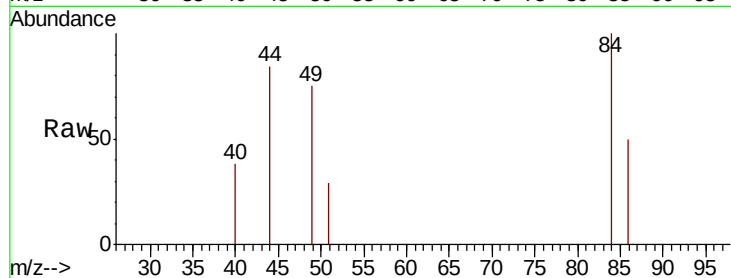




#20
Methylene Chloride
Concen: 0.252 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX013115.D
Acq: 17 Oct 2019 18:18

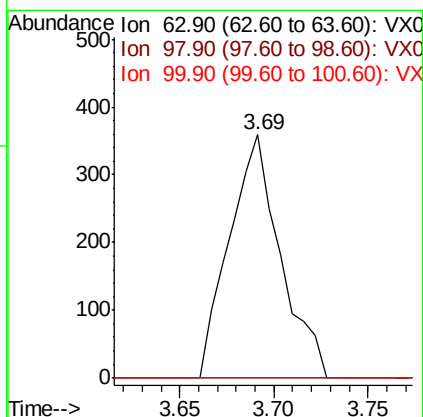
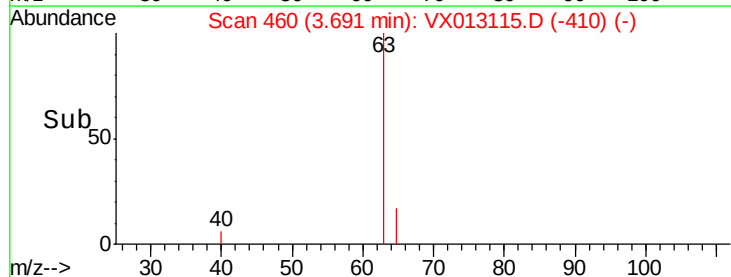
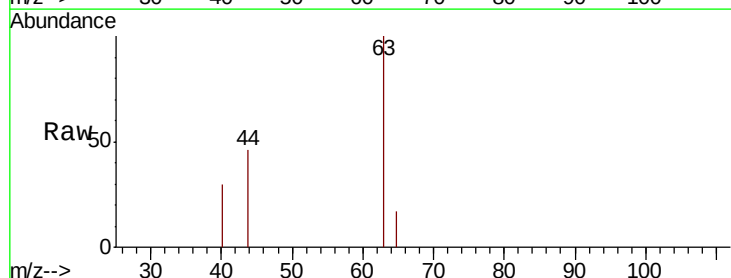
Instrument :
MSVOA_X
ClientSampleId :
DUP-1-SRI4

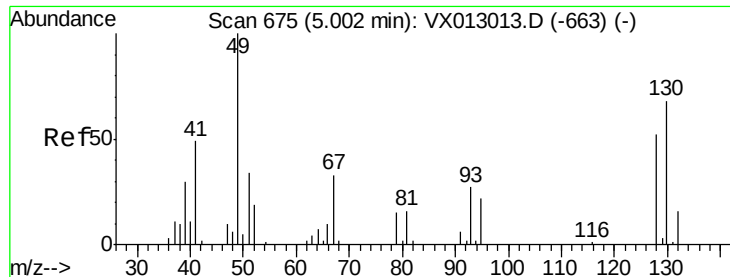
Tot Ion: 84 Resp: 494
Ion Ratio Lower Upper
84 100
49 74.9 96.6 144.8#
51 29.1 30.7 46.1#
86 50.3 51.0 76.6#



#24
1,1-Dichloroethane
Concen: 0.215 ug/l
RT: 3.69 min Scan# 460
Delta R.T. 0.01 min
Lab File: VX013115.D
Acq: 17 Oct 2019 18:18

Tgt Ion: 63 Resp: 674
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.5#
100 0.0 2.3 6.9#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.21 min Scan# 709

Delta R.T. 0.20 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampled :

DUP-1-SRI4

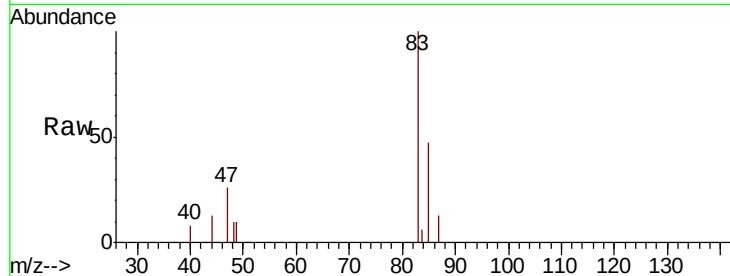
Tot Ion: 49 Resp: 193

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

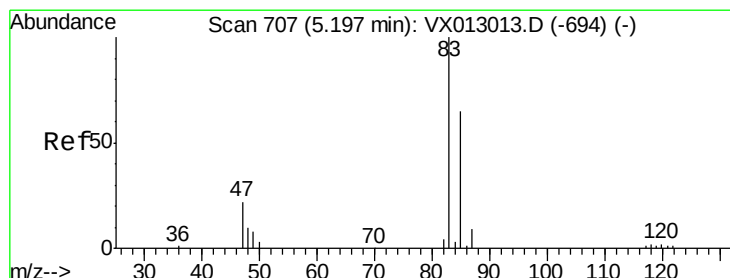
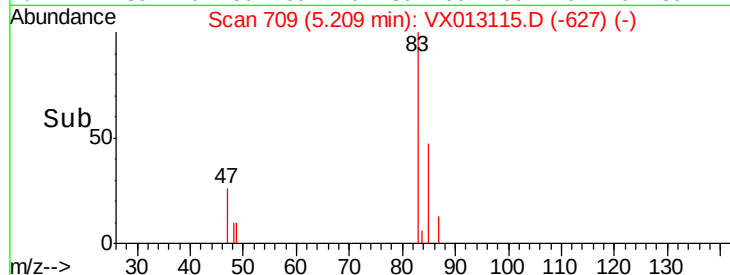
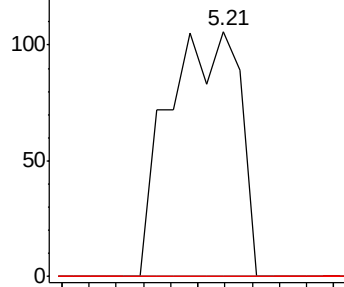
130 0.0 62.1 93.1#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 1.020 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX013115.D

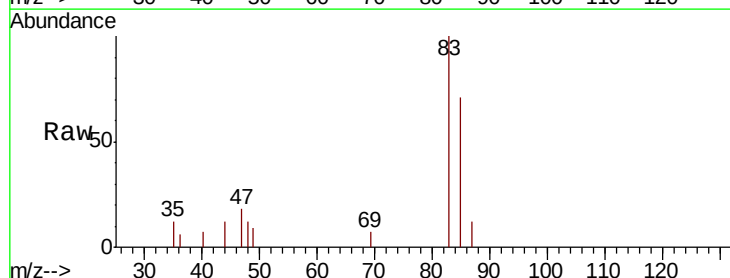
Acq: 17 Oct 2019 18:18

Tgt Ion: 83 Resp: 3285

Ion Ratio Lower Upper

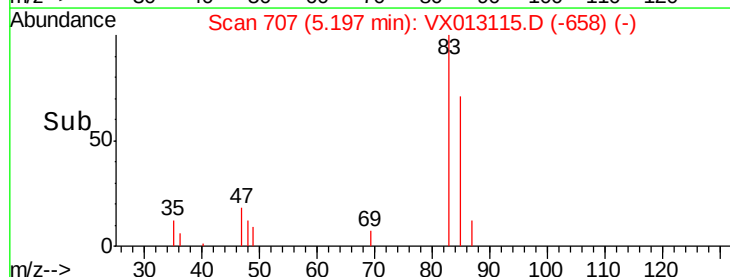
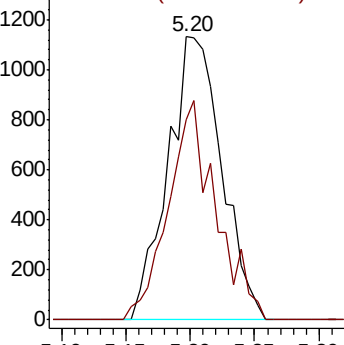
83 100

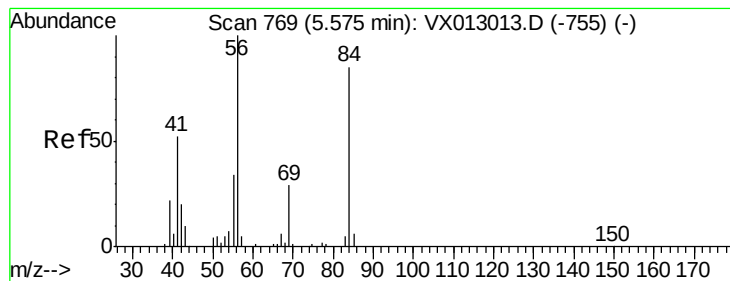
85 70.7 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.190 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

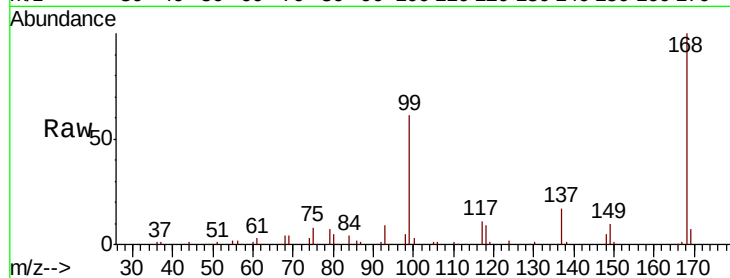
Tot Ion: 56 Resp: 3494

Ion Ratio Lower Upper

56 100

69 158.9 25.2 37.8#

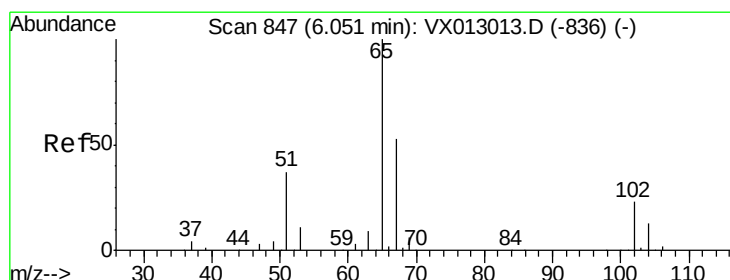
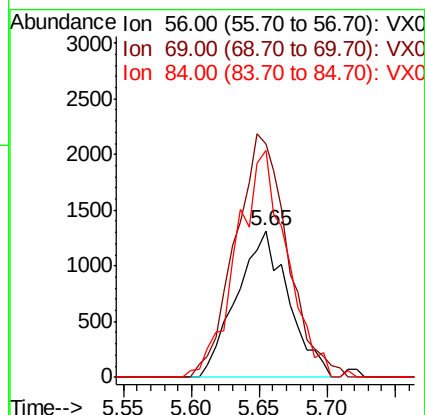
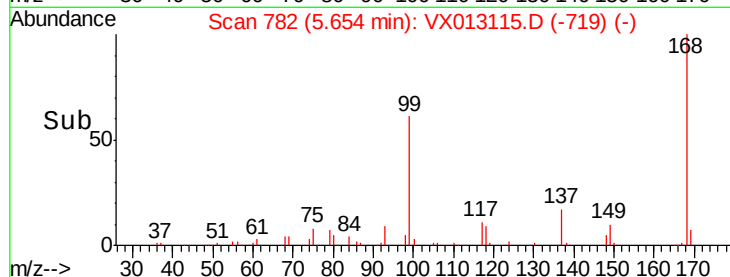
84 154.7 71.3 106.9#



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



#33

1,2-Dichloroethane-d4

Concen: 48.941 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX013115.D

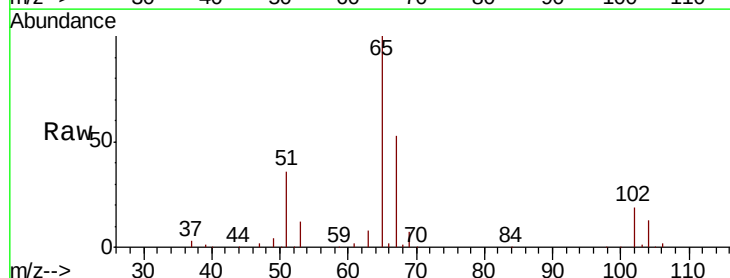
Acq: 17 Oct 2019 18:18

Tgt Ion: 65 Resp: 98999

Ion Ratio Lower Upper

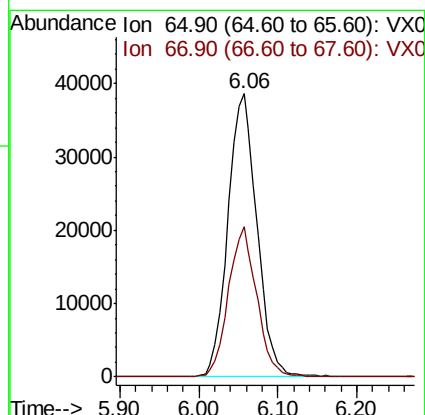
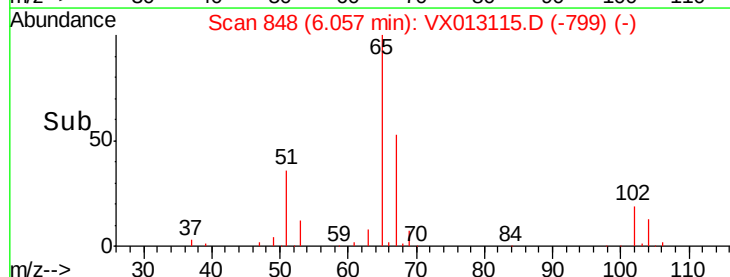
65 100

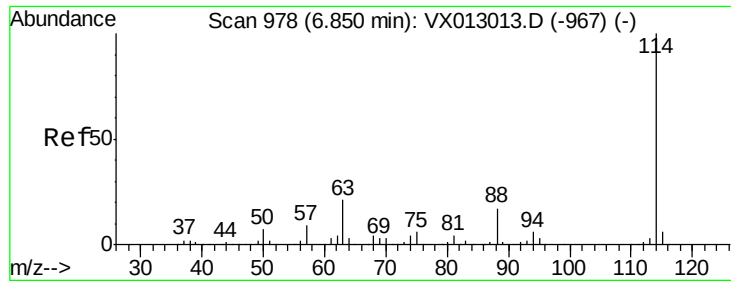
67 51.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

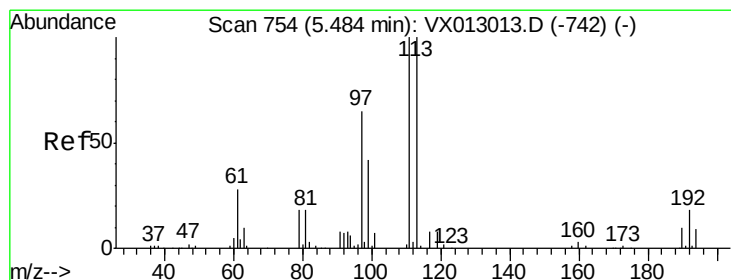
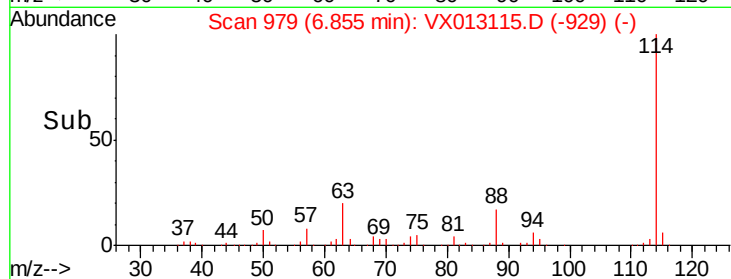
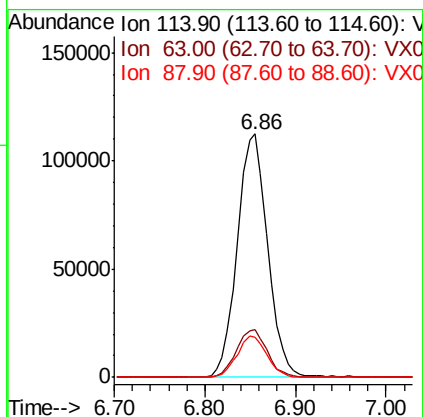
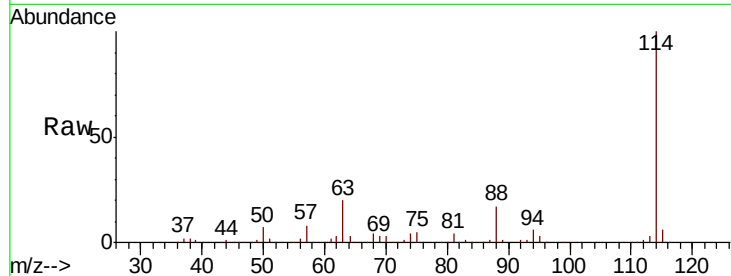




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX013115.D
 Acq: 17 Oct 2019 18:18

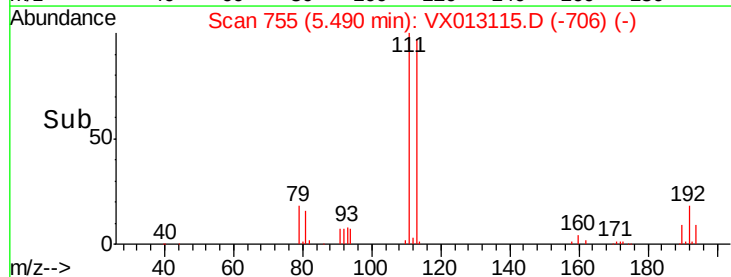
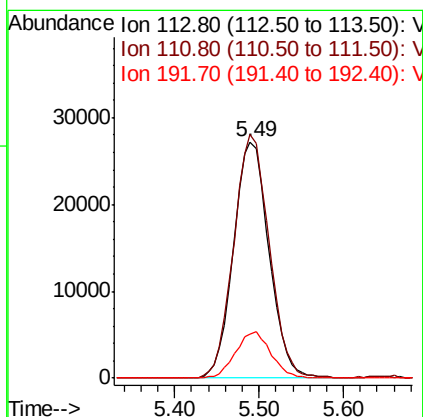
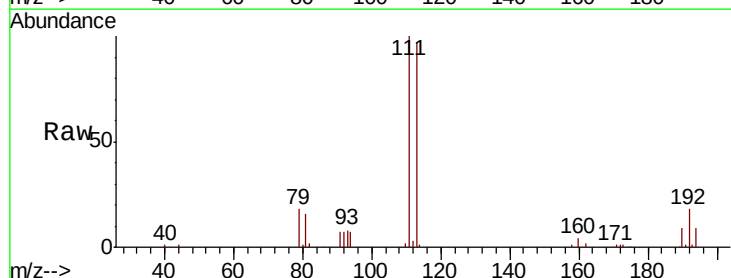
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

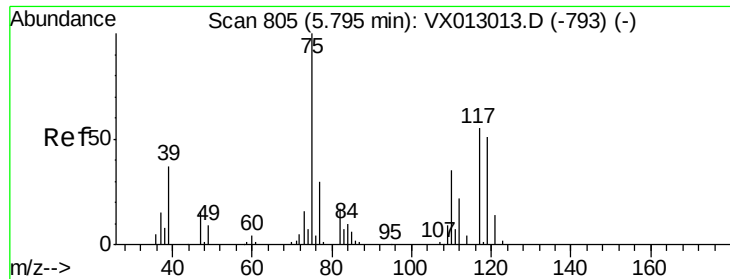
Tot Ion:114 Resp: 261335
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.8
 88 16.7 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 51.787 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX013115.D
 Acq: 17 Oct 2019 18:18

Tgt Ion:113 Resp: 77677
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.2 124.8
 192 19.5 15.4 23.2

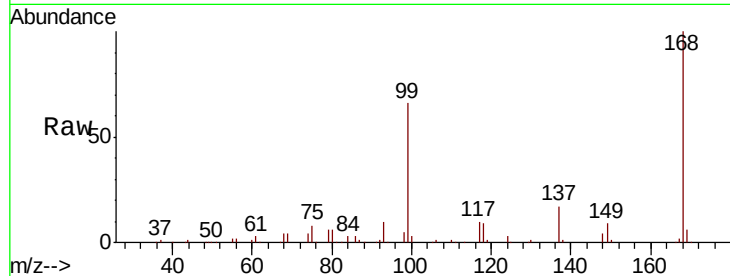




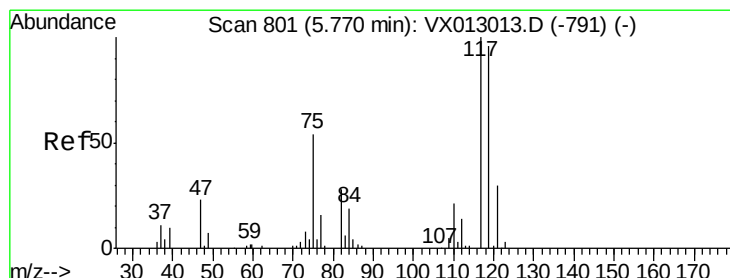
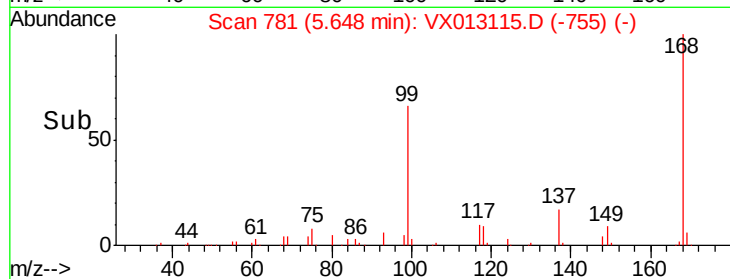
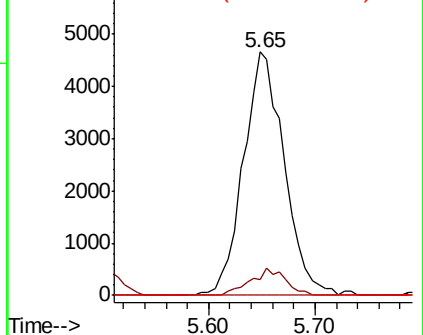
#36
 1,1-Dichloropropene
 Concen: 5.437 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013115.D
 Acq: 17 Oct 2019 18:18

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.6	52.9#
77	0.0	24.4	36.6#

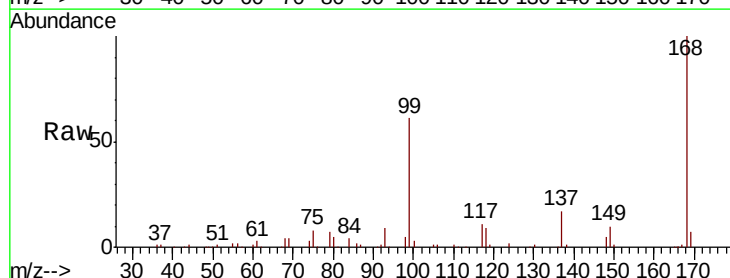


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

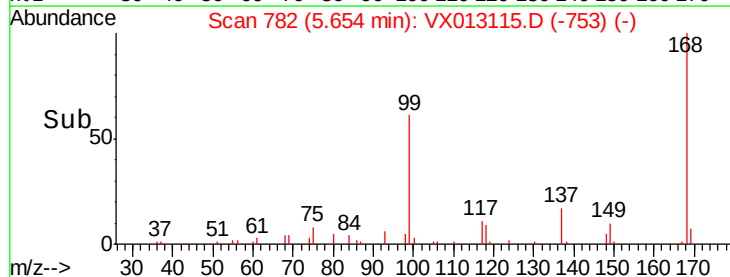
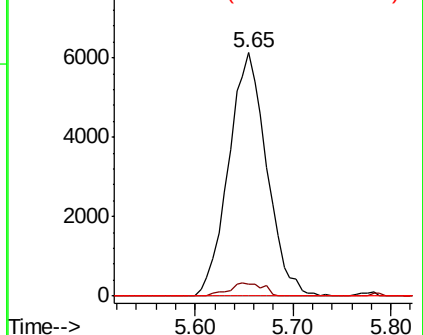


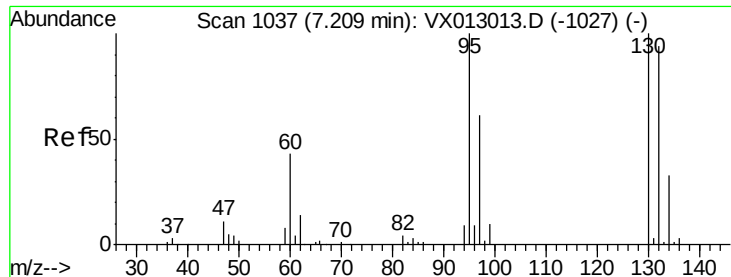
#38
 Carbon Tetrachloride
 Concen: 7.398 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013115.D
 Acq: 17 Oct 2019 18:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	74.5	111.7#
121	0.0	24.2	36.4#



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





#44

Trichloroethene

Concen: 2.046 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

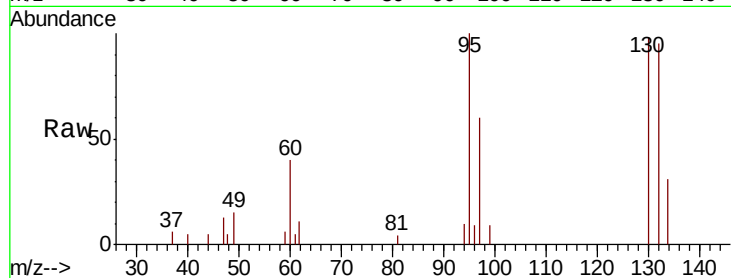
DUP-1-SRI4

Tot Ion:130 Resp: 3850

Ion Ratio Lower Upper

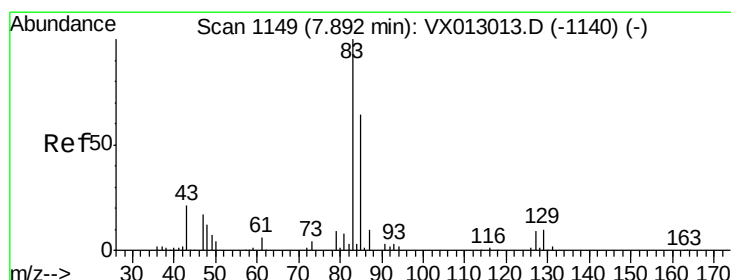
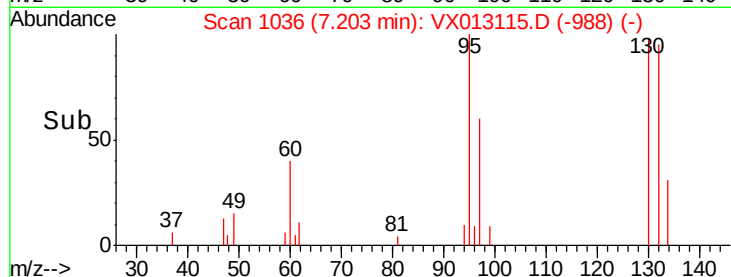
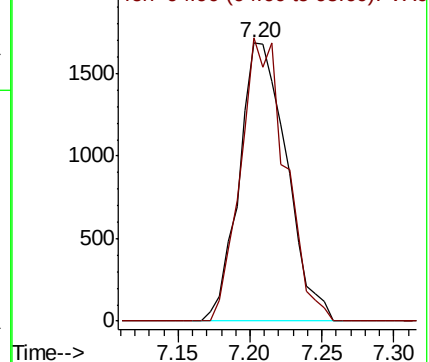
130 100

95 101.7 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#47

Bromodichloromethane

Concen: 0.359 ug/l

RT: 7.91 min Scan# 1152

Delta R.T. 0.02 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

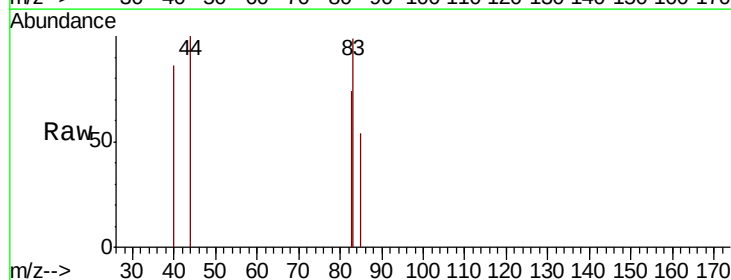
Tgt Ion: 83 Resp: 808

Ion Ratio Lower Upper

83 100

85 31.5 52.4 78.6#

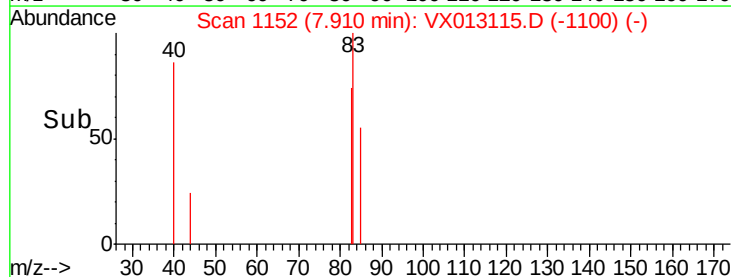
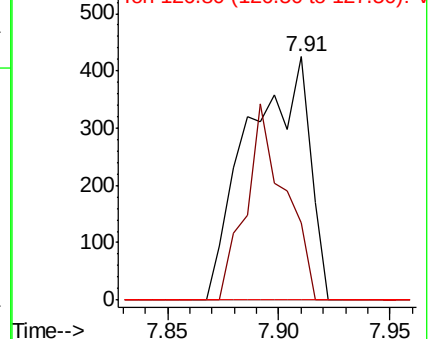
127 0.0 6.6 10.0#

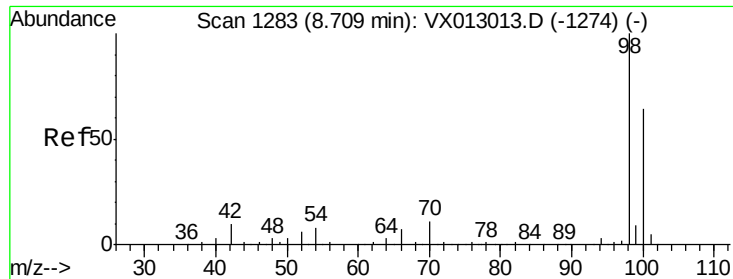


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 51.666 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

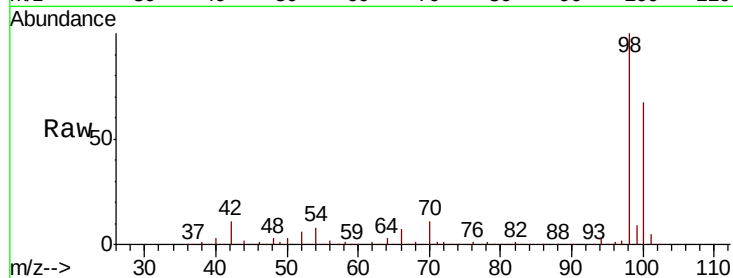
DUP-1-SRI4

Tot Ion: 98 Resp: 302247

Ion Ratio Lower Upper

98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX013115.D (-1234) (-)

Ion 100.00 (99.70 to 100.70): VX013115.D (-1234) (-)

8.71

200000

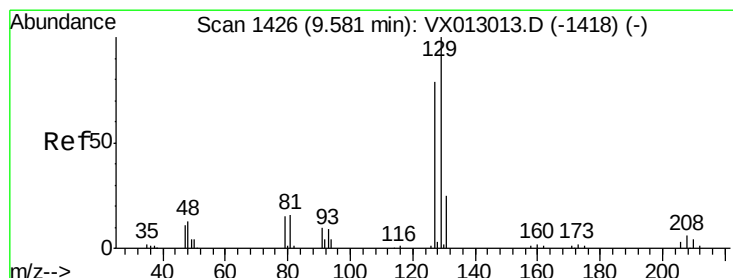
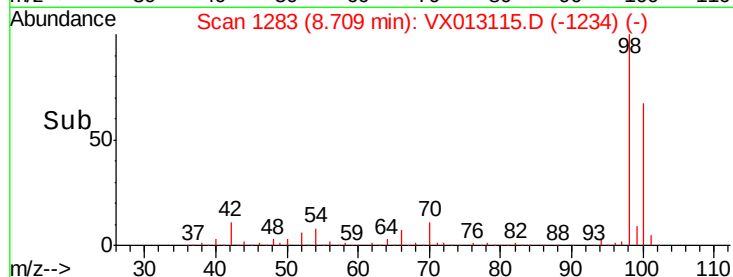
150000

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 2.205 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013115.D

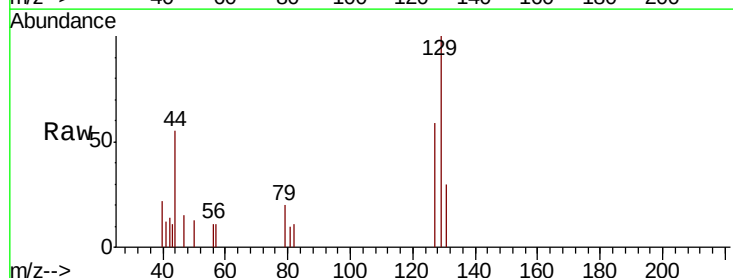
Acq: 17 Oct 2019 18:18

Tgt Ion: 129 Resp: 692

Ion Ratio Lower Upper

129 100

127 54.6 38.9 116.7



Abundance Ion 128.80 (128.50 to 129.50): VX013115.D (-1377) (-)

Ion 126.80 (126.50 to 127.50): VX013115.D (-1377) (-)

600

500

400

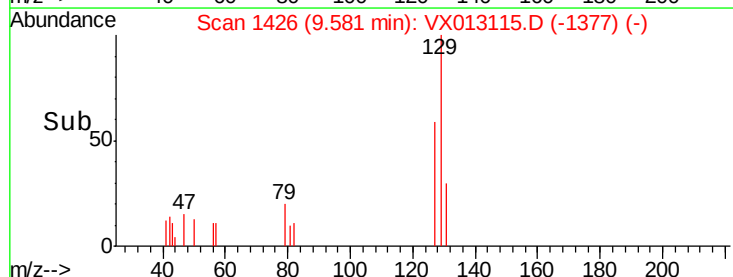
300

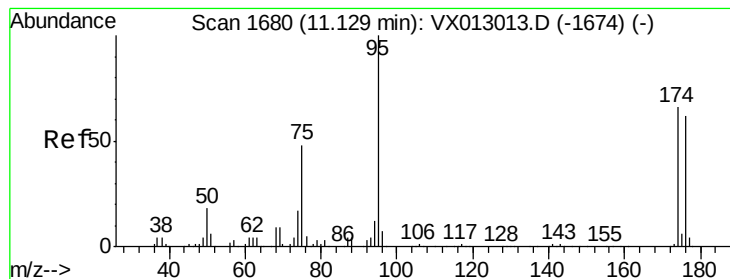
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 41.507 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

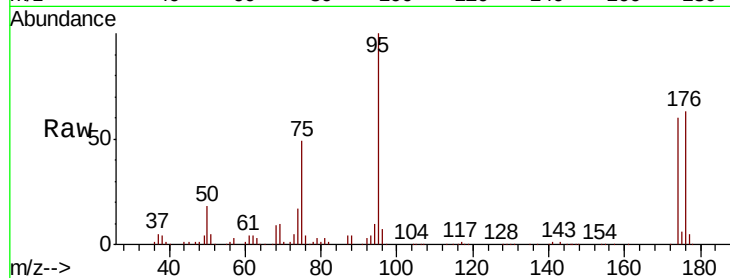
Tot Ion: 95 Resp: 94348

Ion Ratio Lower Upper

95 100

174 75.5 0.0 143.4

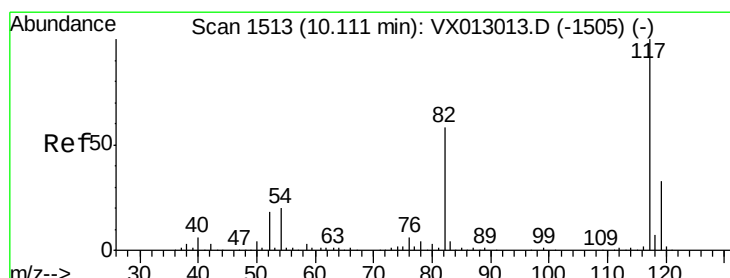
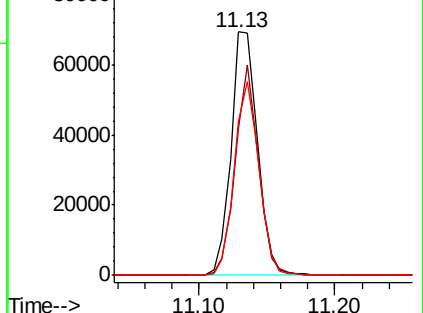
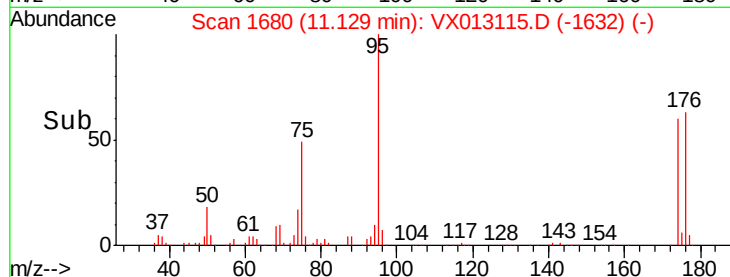
176 73.9 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX013115.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013115.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013115.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

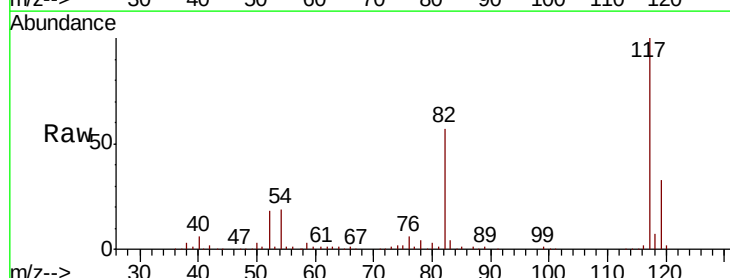
Tgt Ion: 117 Resp: 214841

Ion Ratio Lower Upper

117 100

82 56.7 44.1 66.1

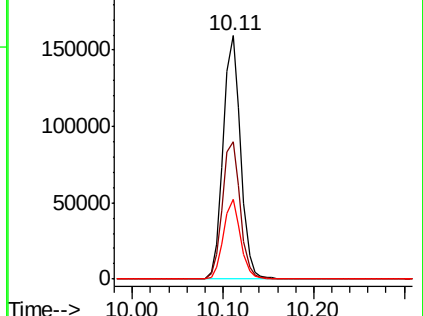
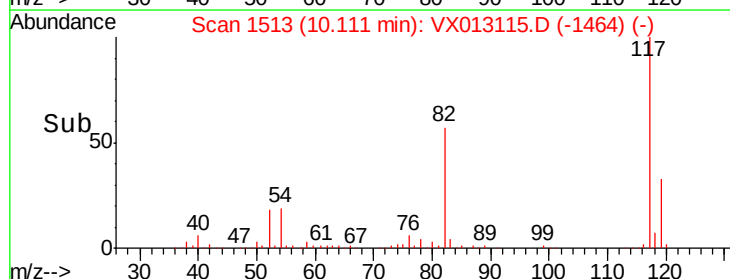
119 33.0 25.8 38.8

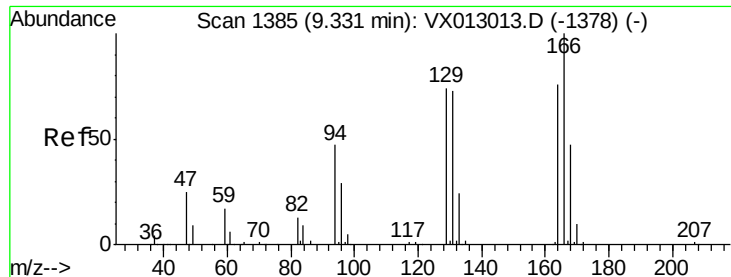


Abundance Ion 116.90 (116.60 to 117.60): VX013115.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013115.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013115.D (-1464) (-)





#64

Tetrachloroethene

Concen: 6.524 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampled :

DUP-1-SRI4

Tot Ion:164 Resp: 9721

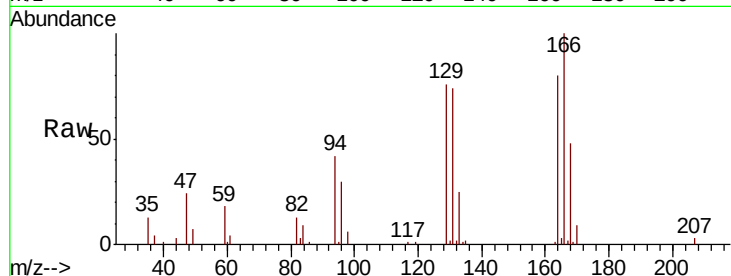
Ion Ratio Lower Upper

164 100

166 125.0 96.9 145.3

129 94.7 77.9 116.9

131 93.0 72.7 109.1

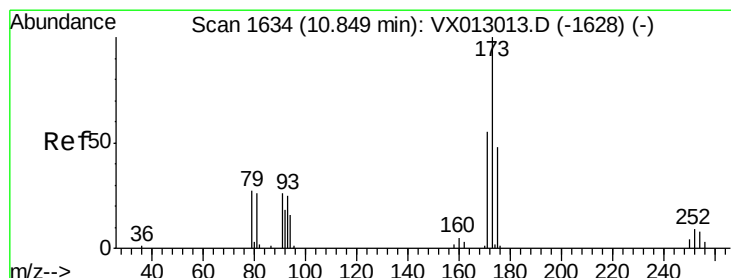
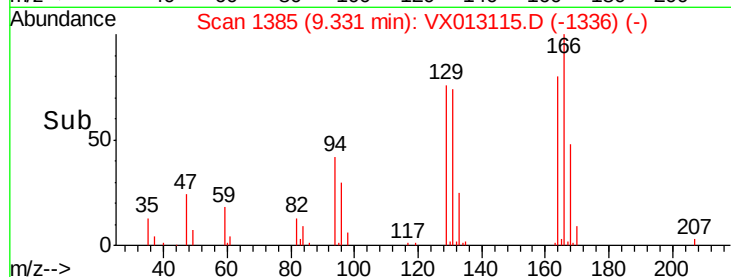
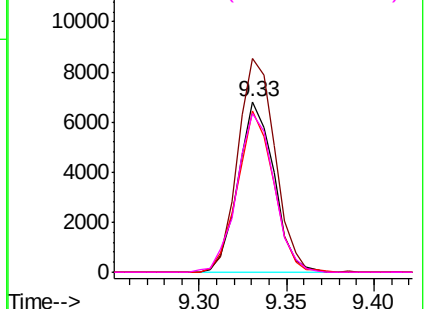


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.218 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

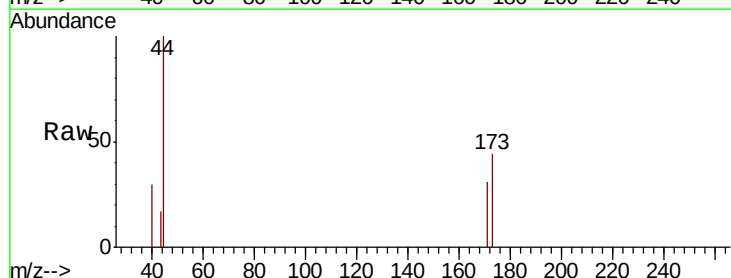
Tgt Ion:173 Resp: 114

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

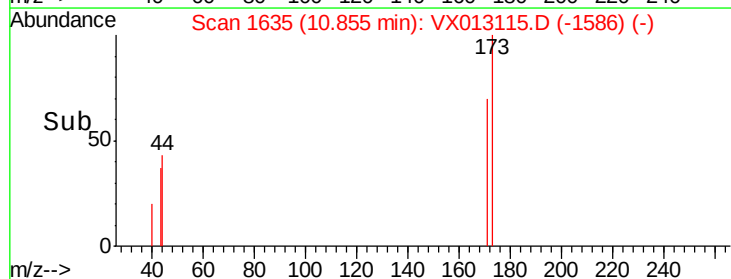
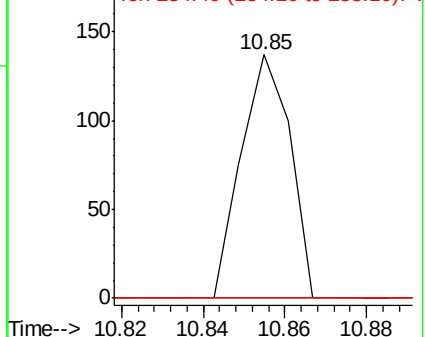
254 0.0 0.1 0.1#

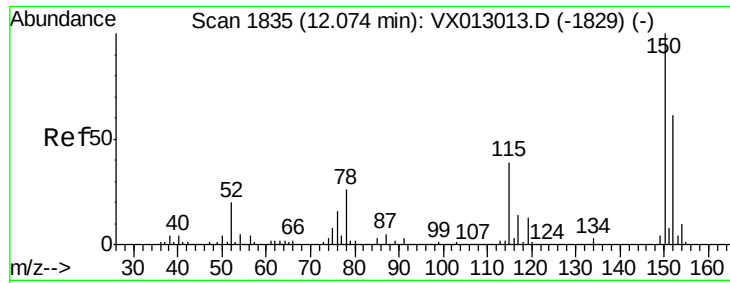


Abundance Ion 172.70 (172.40 to 173.40): V

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: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampled :

DUP-1-SRI4

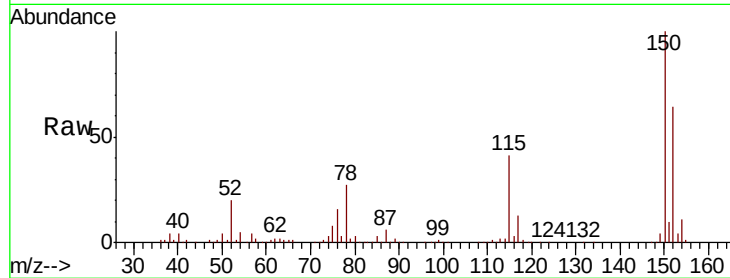
Tot Ion:152 Resp: 78490

Ion Ratio Lower Upper

152 100

115 64.0 44.5 133.5

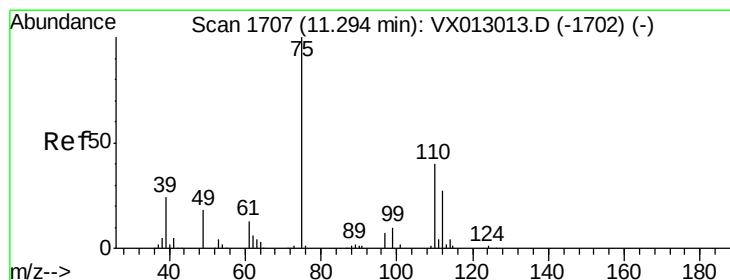
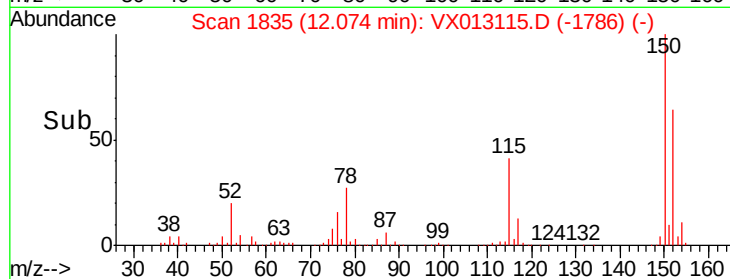
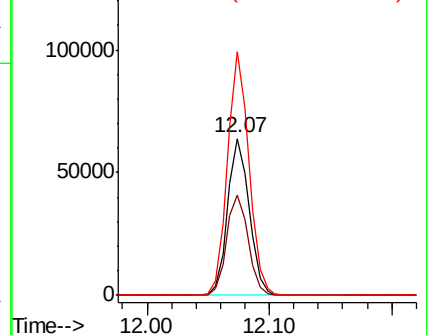
150 154.4 0.0 353.4



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: 26.890 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013115.D

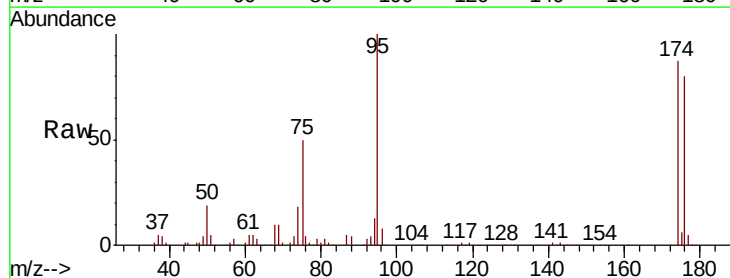
Acq: 17 Oct 2019 18:18

Tgt Ion: 75 Resp: 46813

Ion Ratio Lower Upper

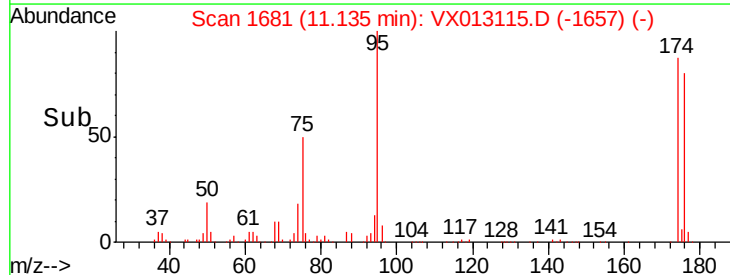
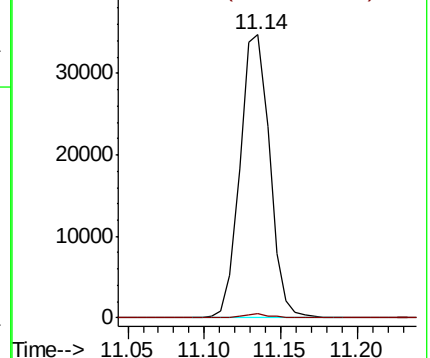
75 100

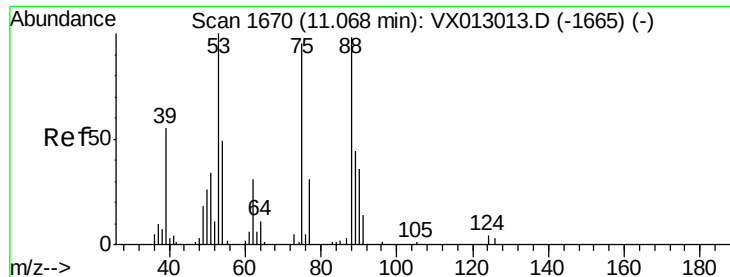
77 1.1 22.9 68.8#



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: 67.583 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013115.D

Acq: 17 Oct 2019 18:18

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

Tot Ion: 75 Resp: 46813

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

