

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050420\
 Data File : VX016040.D
 Acq On : 04 May 2020 17:08
 Operator : JC/SP
 Sample : L2469-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ194I-20200429

Quant Time: May 05 07:30:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:11:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	294950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	479548	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	460508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231592	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	180744	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	
35) Dibromofluoromethane	5.47	113	139430	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
50) Toluene-d8	8.70	98	584748	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.12	95	231949	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	

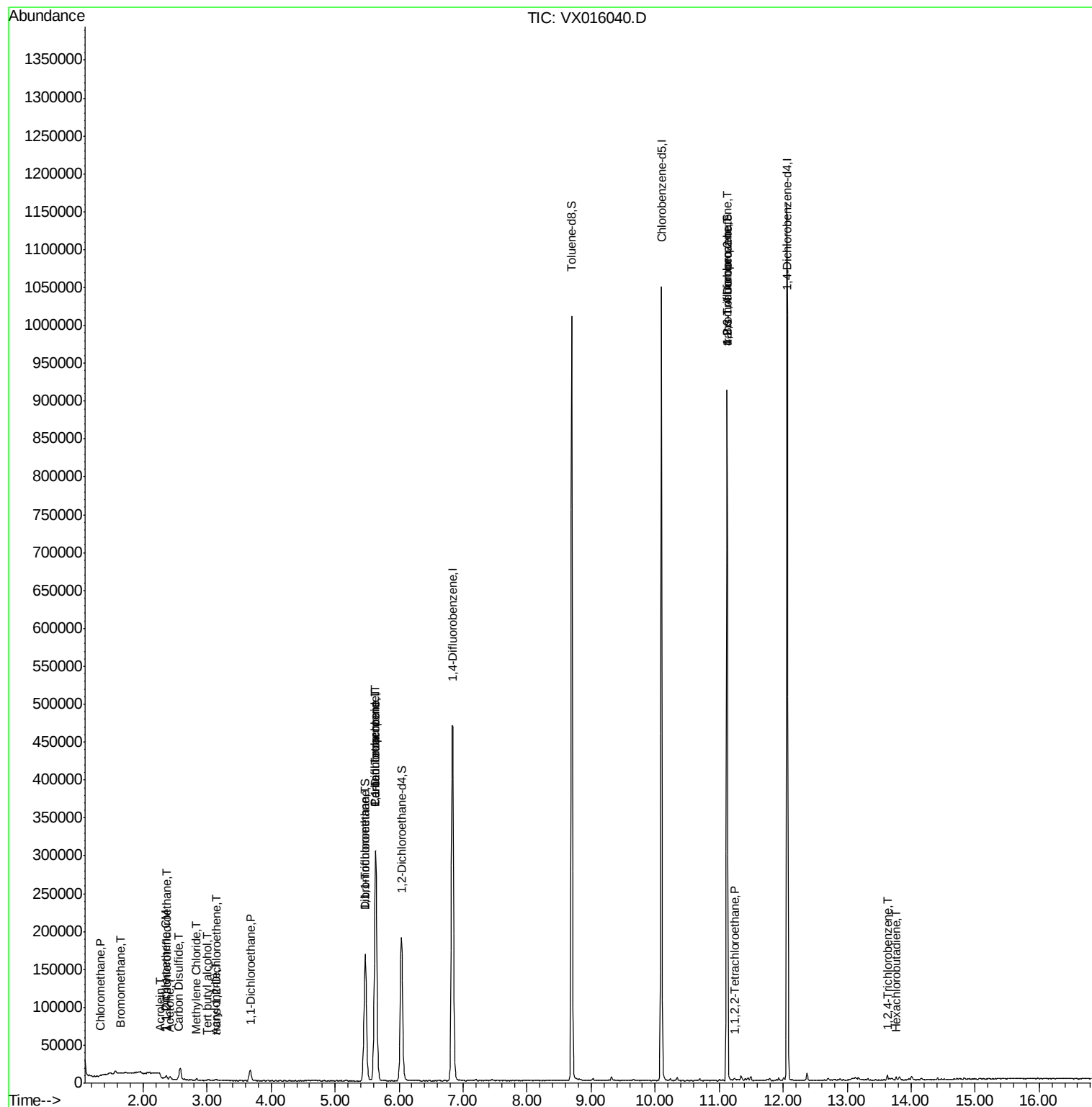
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1022	0.282	ug/l	97
5) Bromomethane	1.64	94	566	0.290	ug/l #	65
9) 1,1,2-Trichlorotrifluoroet	2.37	101	598	0.204	ug/l	90
11) Tert butyl alcohol	3.01	59	1084	1.104	ug/l #	92
12) 1,1-Dichloroethene	2.36	96	918	0.299	ug/l #	90
13) Acrolein	2.28	56	387	0.630	ug/l #	67
15) Acrylonitrile	3.12	53	777	0.382	ug/l	89
16) Acetone	2.42	43	3007	1.736	ug/l	96
17) Carbon Disulfide	2.55	76	4444	0.277	ug/l	96
20) Methylene Chloride	2.83	84	909	0.255	ug/l	95
21) trans-1,2-Dichloroethene	3.14	96	939	0.275	ug/l #	58
24) 1,1-Dichloroethane	3.67	63	16237	2.737	ug/l	96
32) 1,1,1-Trichloroethane	5.48	97	1458	0.272	ug/l #	48
36) 1,1-Dichloropropene	5.64	75	22650	4.798	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28609	5.963	ug/l #	13
75) 1,1,2,2-Tetrachloroethane	11.25	83	82	4.832	ug/l #	89
76) 1,2,3-Trichloropropane	11.12	75	119291	22.699	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	119291	54.093	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1624	0.292	ug/l	92
94) Hexachlorobutadiene	13.77	225	576	0.761	ug/l	88

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

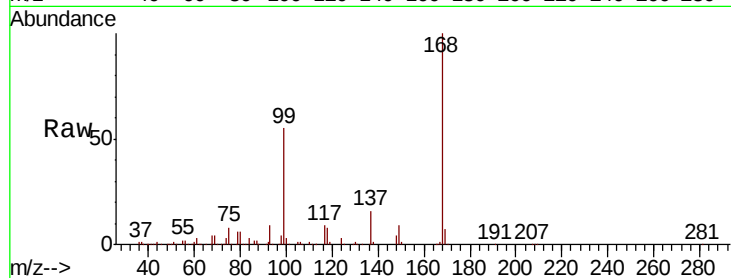
SA-PZ194I-20200429

Tot Ion:168 Resp: 294950

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

60000

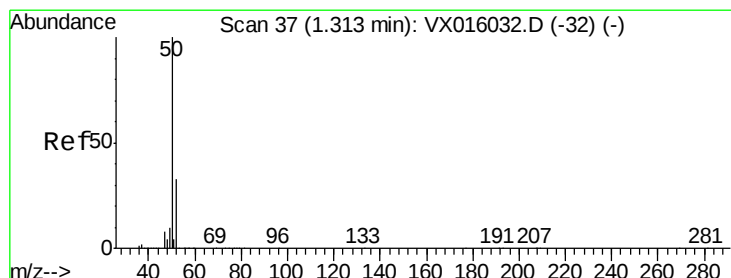
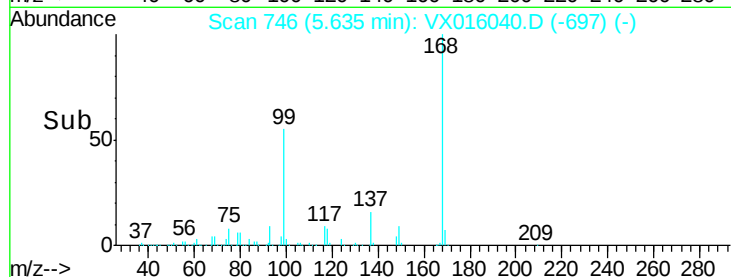
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.282 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016040.D

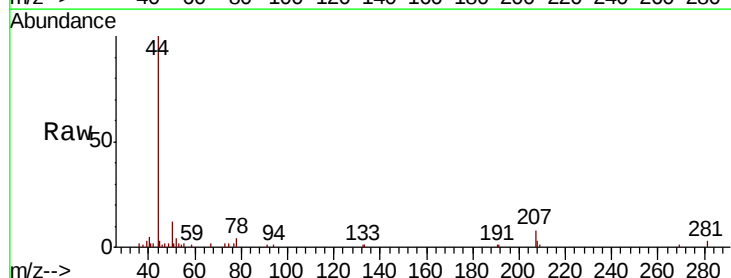
Acq: 04 May 2020 17:08

Tgt Ion: 50 Resp: 1022

Ion Ratio Lower Upper

50 100

52 30.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

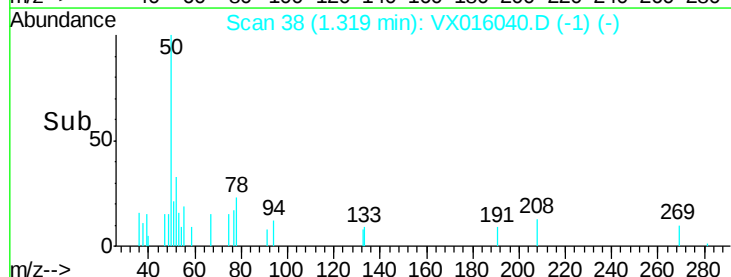
400

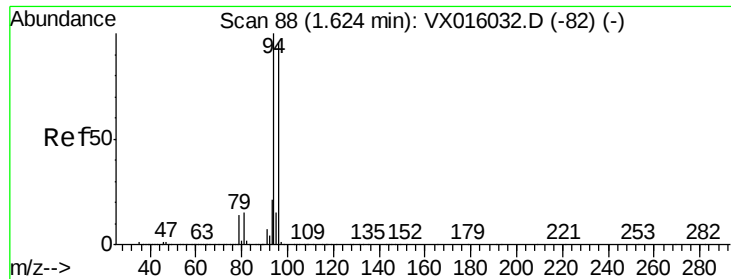
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.290 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

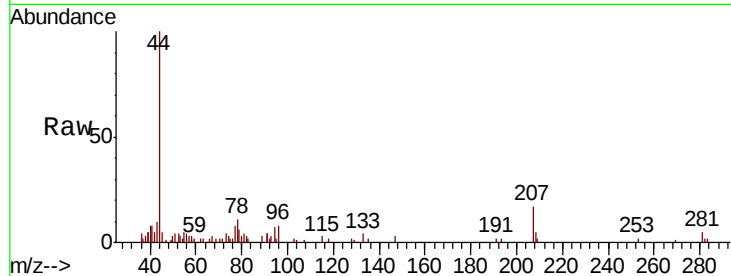
SA-PZ194I-20200429

Tot Ion: 94 Resp: 566

Ion Ratio Lower Upper

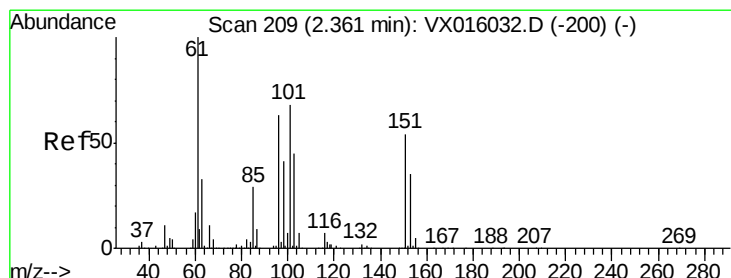
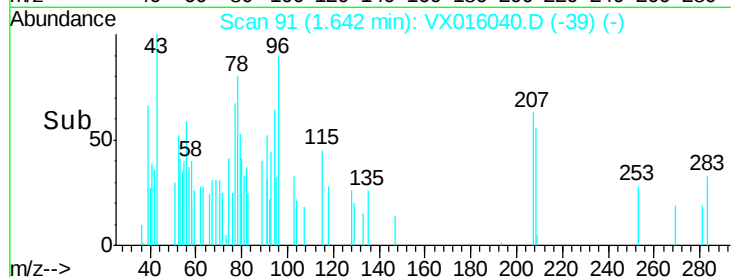
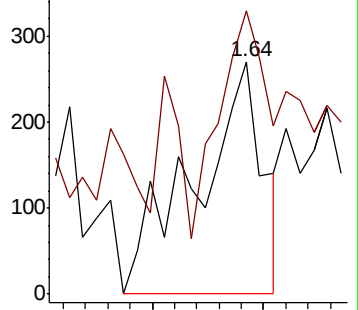
94 100

96 61.5 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.204 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

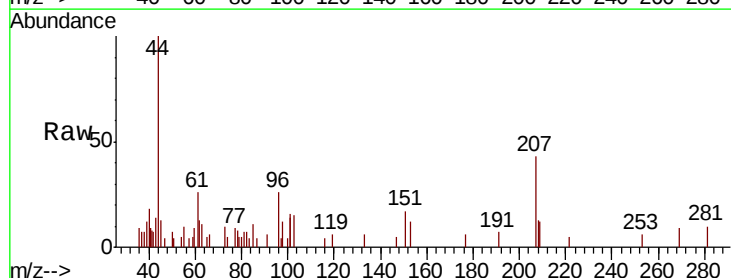
Tgt Ion: 101 Resp: 598

Ion Ratio Lower Upper

101 100

85 42.5 34.2 51.4

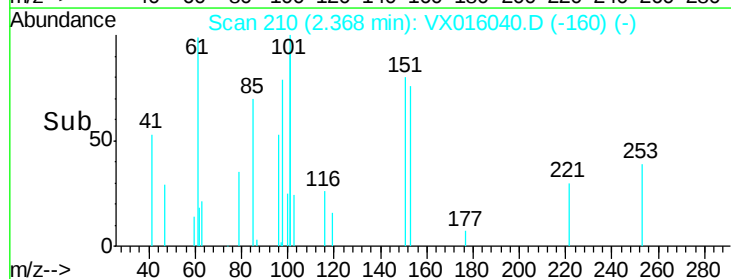
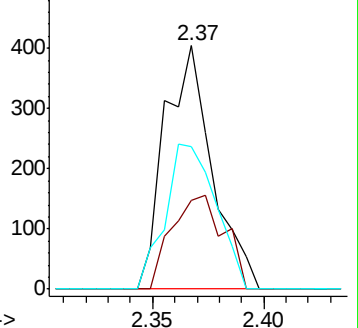
151 63.7 62.1 93.1

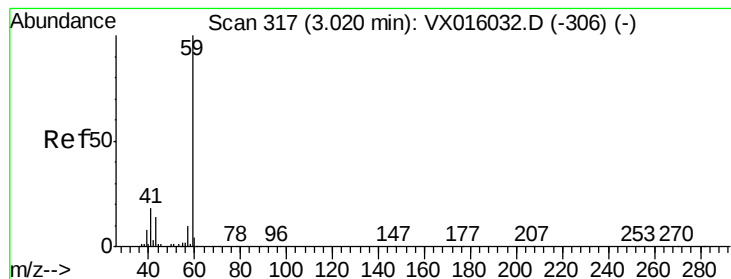


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



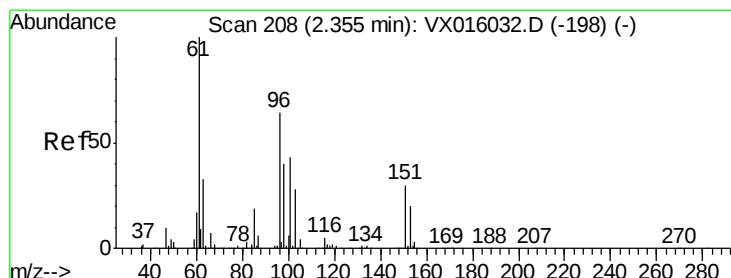
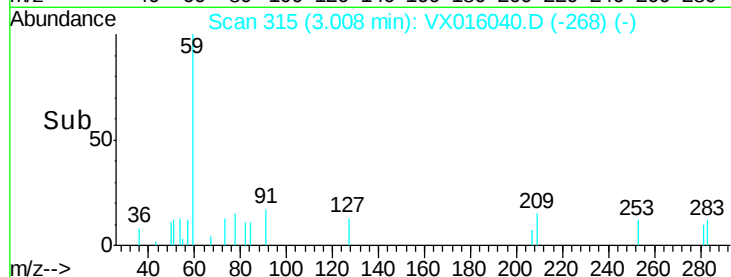
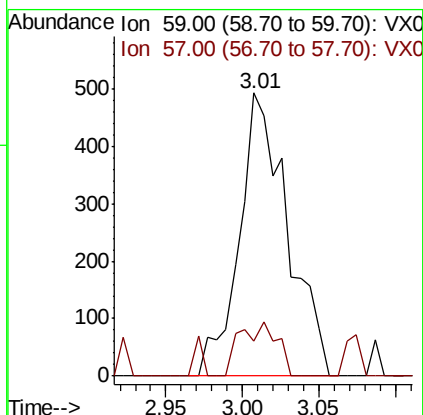
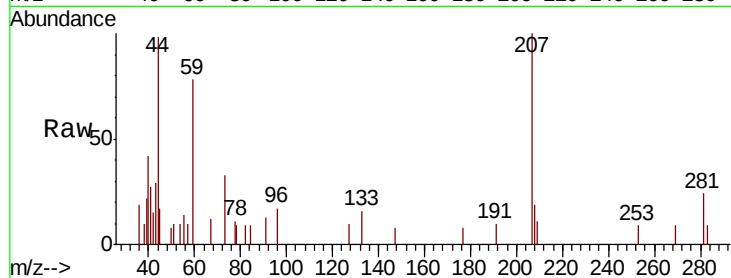


#11

Tert butyl alcohol
Concen: 1.104 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ194I-20200429

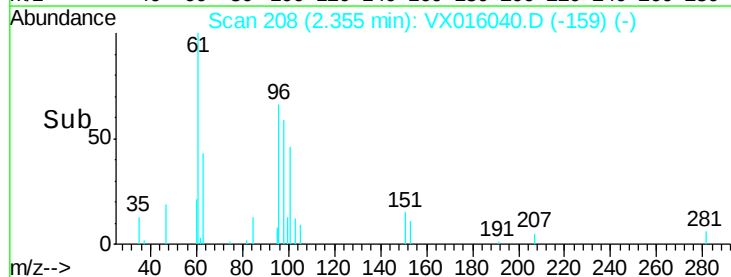
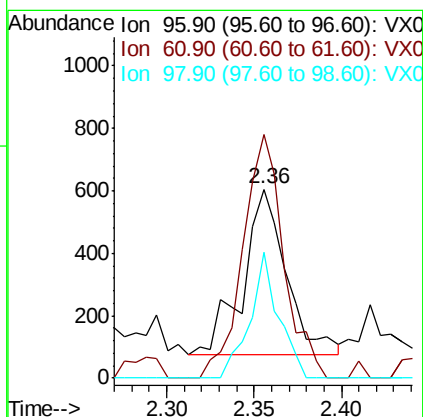
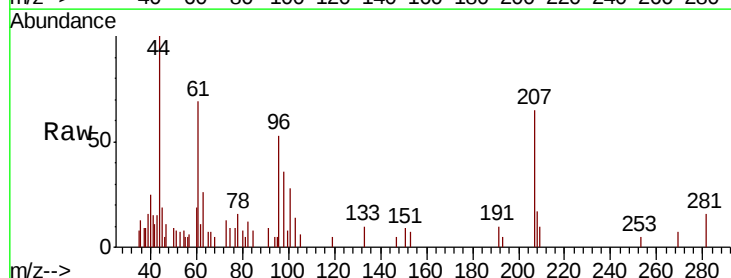
Tot Ion: 59 Resp: 1084
Ion Ratio Lower Upper
59 100
57 7.3 8.2 12.4#

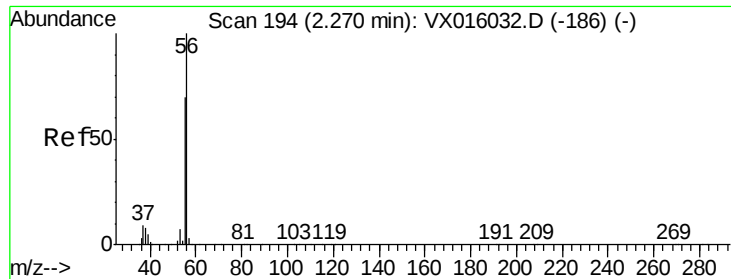


#12

1,1-Dichloroethene
Concen: 0.299 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

Tgt Ion: 96 Resp: 918
Ion Ratio Lower Upper
96 100
61 146.6 124.8 187.2
98 76.1 49.7 74.5#





#13

Acrolein

Concen: 0.630 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

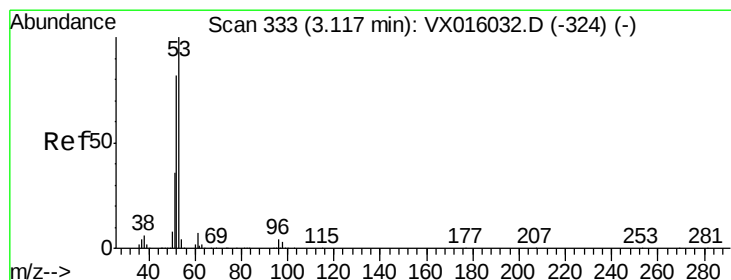
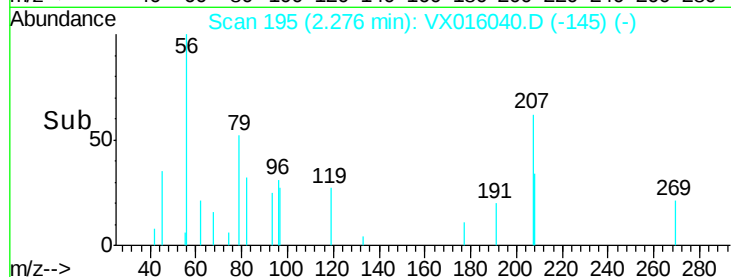
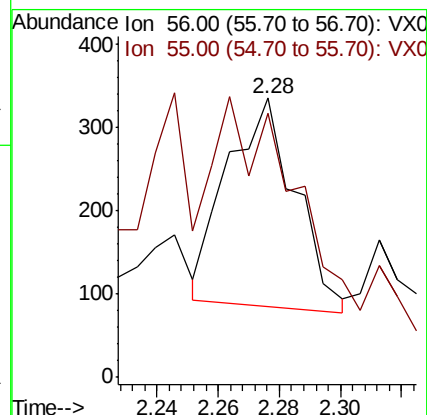
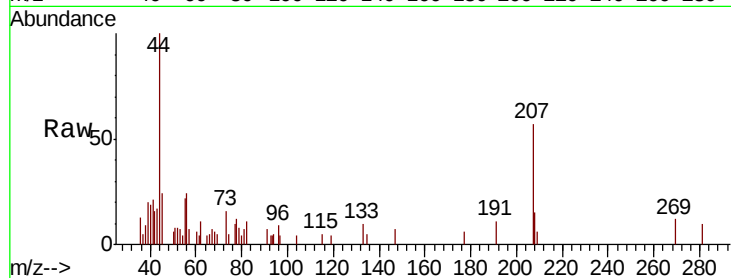
SA-PZ194I-20200429

Tot Ion: 56 Resp: 387

Ion Ratio Lower Upper

56 100

55 97.7 56.5 84.7#



#15

Acrylonitrile

Concen: 0.382 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

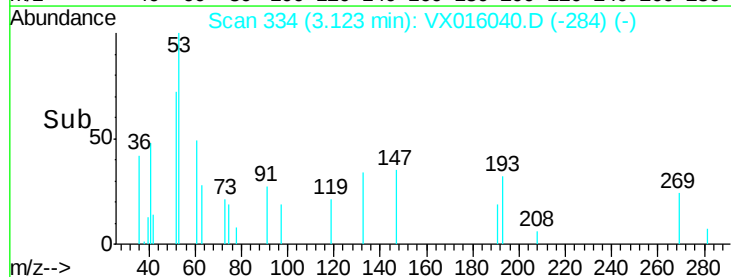
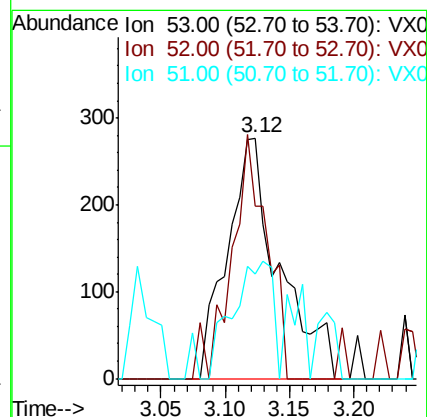
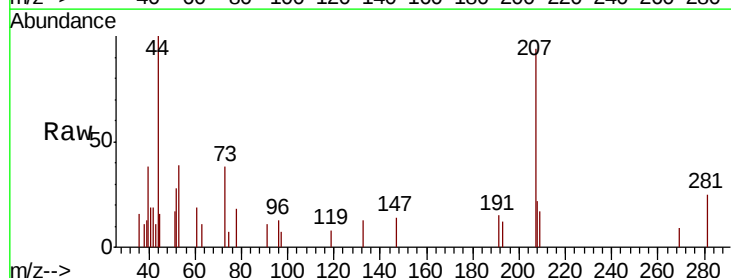
Tgt Ion: 53 Resp: 777

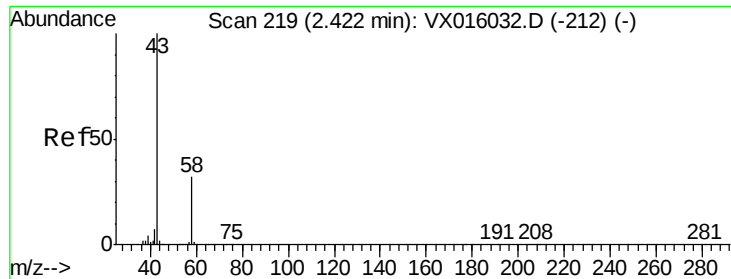
Ion Ratio Lower Upper

53 100

52 69.2 66.1 99.1

51 37.7 28.8 43.2





#16

Acetone

Concen: 1.736 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

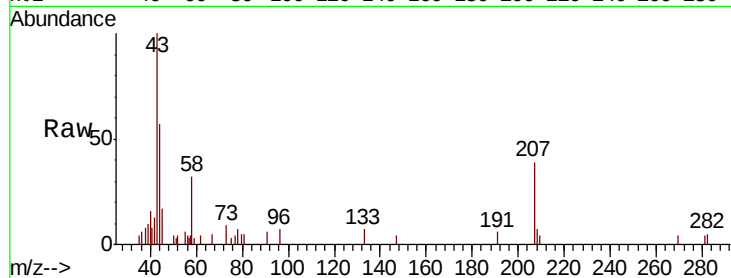
SA-PZ194I-20200429

Tot Ion: 43 Resp: 3007

Ion Ratio Lower Upper

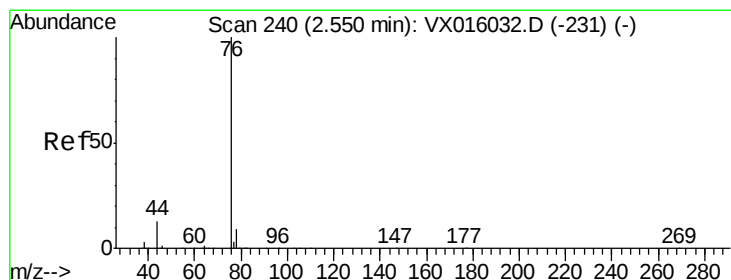
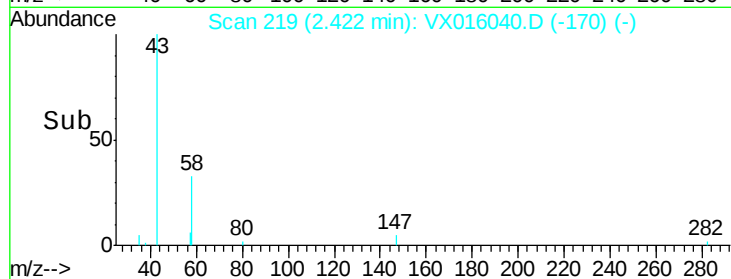
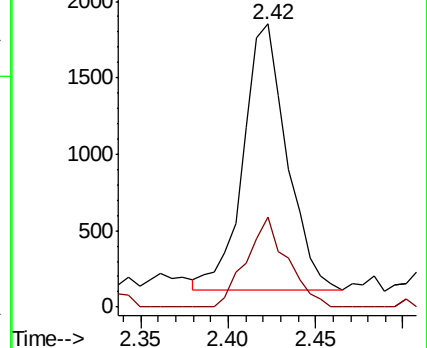
43 100

58 33.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.277 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016040.D

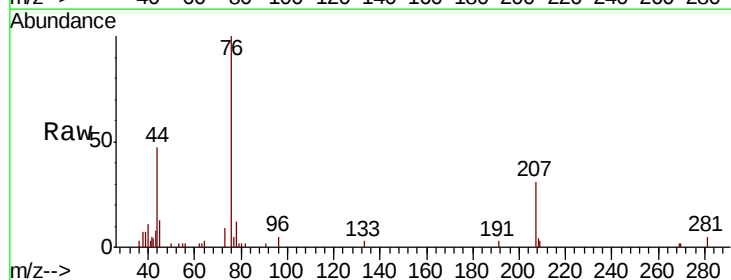
Acq: 04 May 2020 17:08

Tgt Ion: 76 Resp: 4444

Ion Ratio Lower Upper

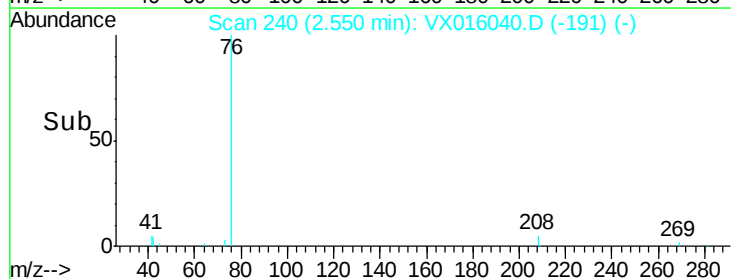
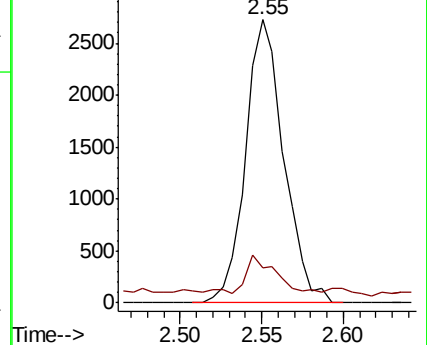
76 100

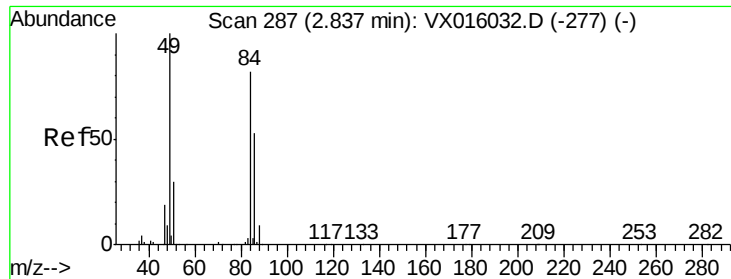
78 7.9 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

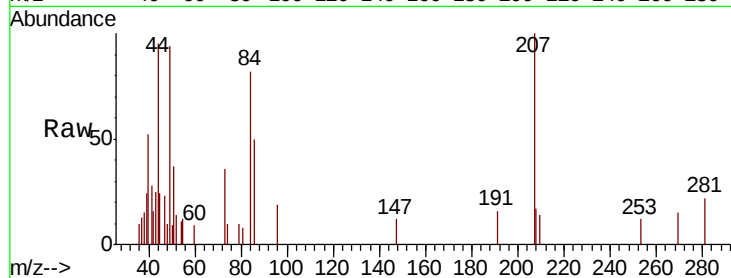




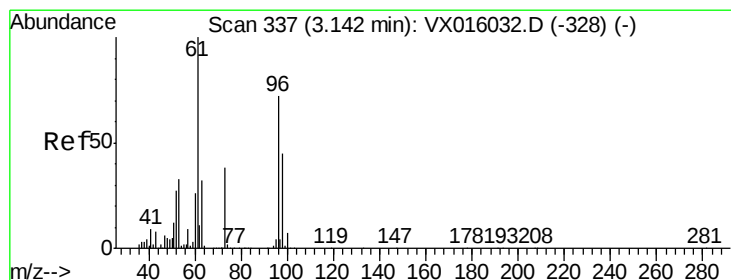
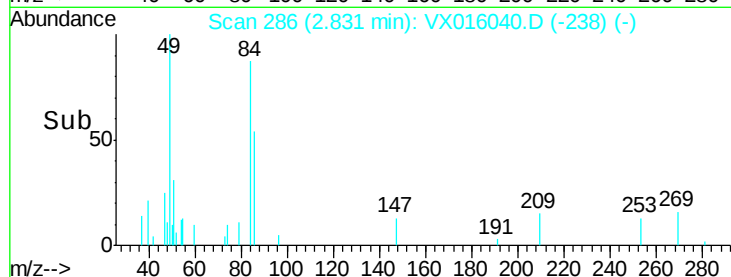
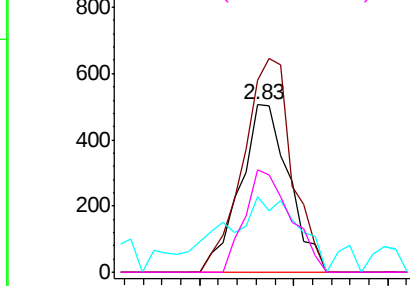
#20
Methvlene Chloride
Concen: 0.255 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ194I-20200429

Tot Ion:	84	Resp:	909
Ion	Ratio	Lower	Upper
84	100		
49	114.8	97.3	145.9
51	33.4	29.3	43.9
86	61.5	51.3	76.9

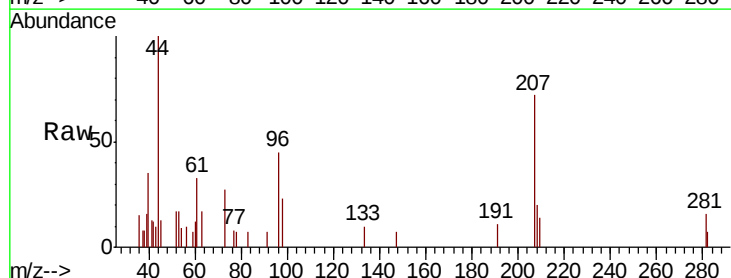


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

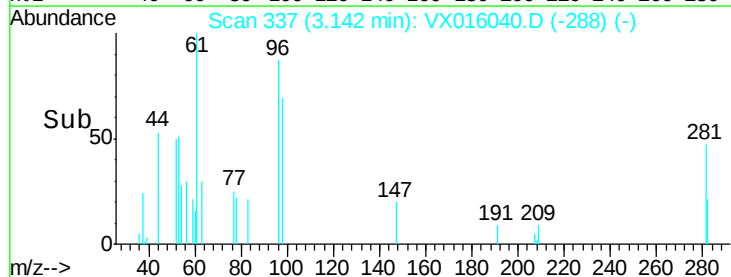
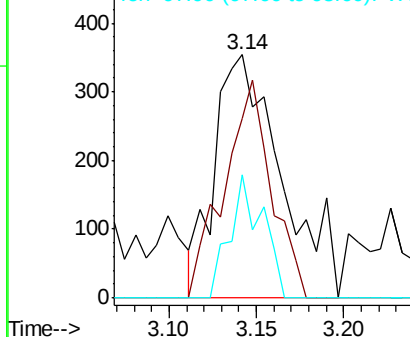


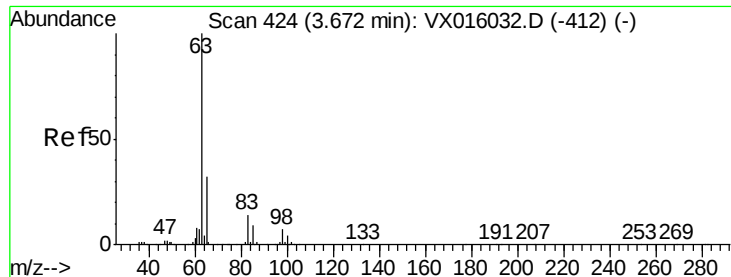
#21
trans-1,2-Dichloroethene
Concen: 0.275 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

Tgt Ion:	96	Resp:	939
Ion	Ratio	Lower	Upper
96	100		
61	73.7	111.2	166.8#
98	50.6	50.2	75.4



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





#24

1,1-Dichloroethane

Concen: 2.737 ug/l

RT: 3.67 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

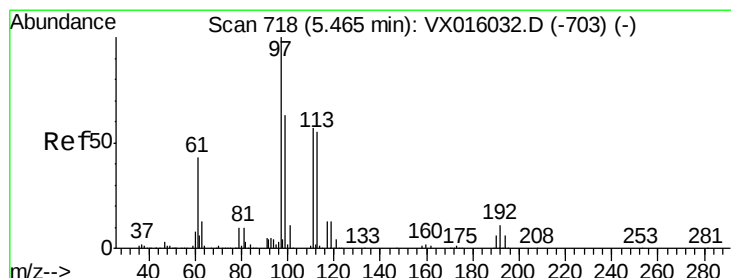
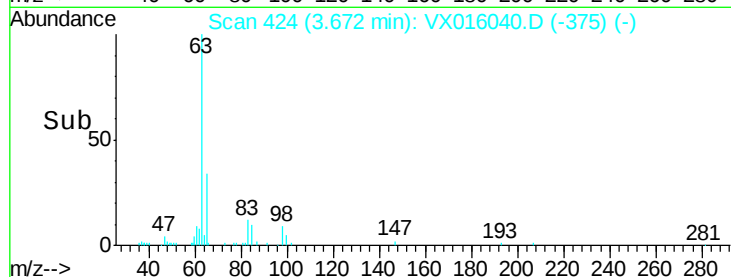
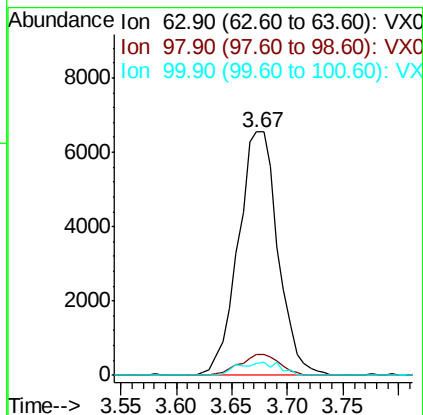
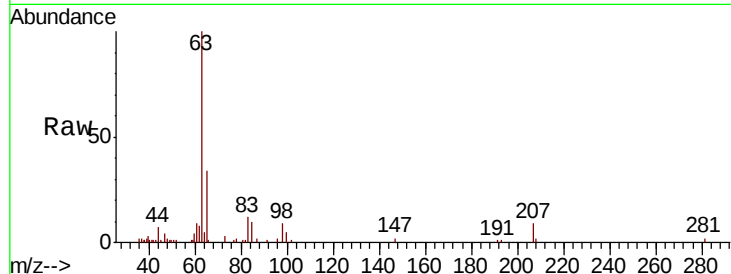
Instrument :

MSVOA_X

ClientSampleId :

SA-PZ194I-20200429

Tot Ion:	63	Resp:	16237
Ion	Ratio	Lower	Upper
63	100		
98	8.8	3.5	10.5
100	4.8	2.1	6.5



#32

1,1,1-Trichloroethane

Concen: 0.272 ug/l

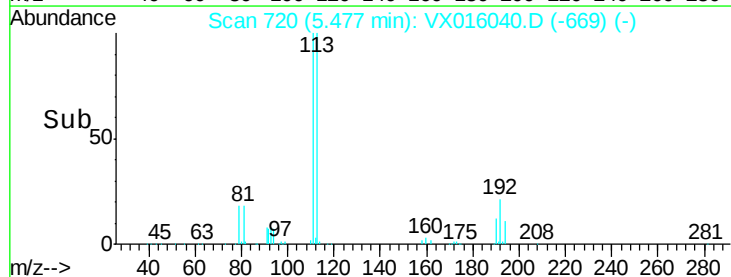
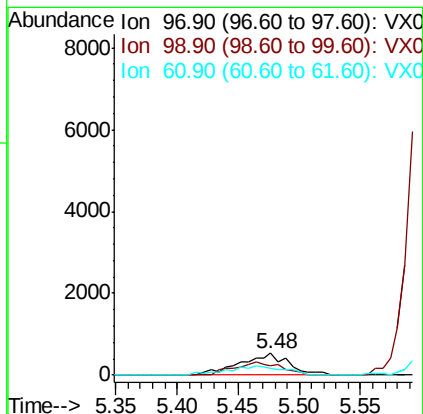
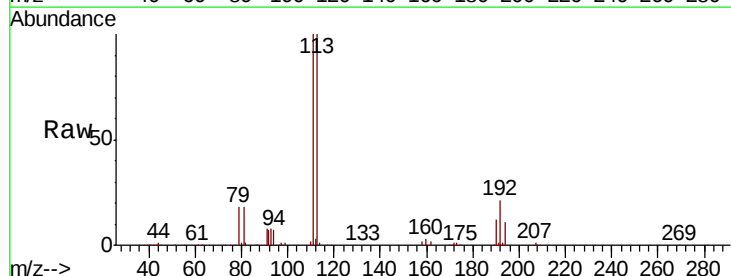
RT: 5.48 min Scan# 720

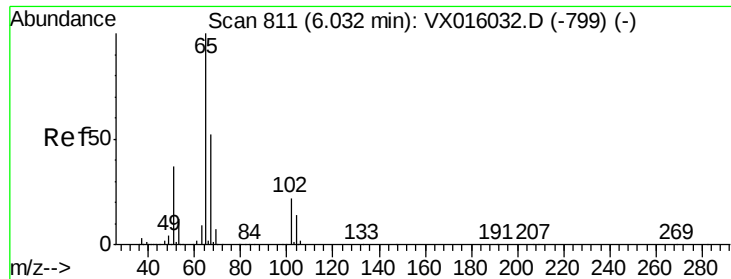
Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Tgt Ion:	97	Resp:	1458
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.4#
61	47.9	34.5	51.7





#33

1,2-Dichloroethane-d4

Concen: 46.569 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

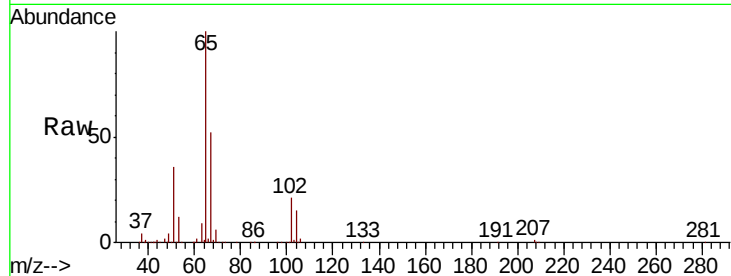
SA-PZ194I-20200429

Tot Ion: 65 Resp: 180744

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

80000

60000

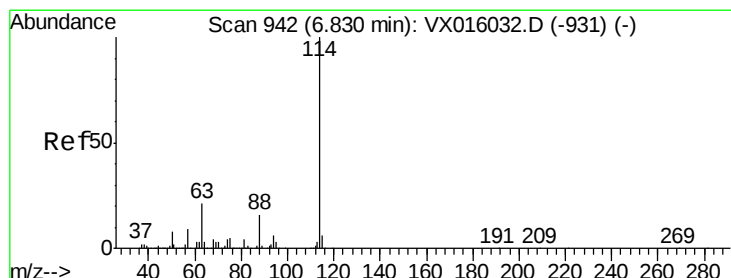
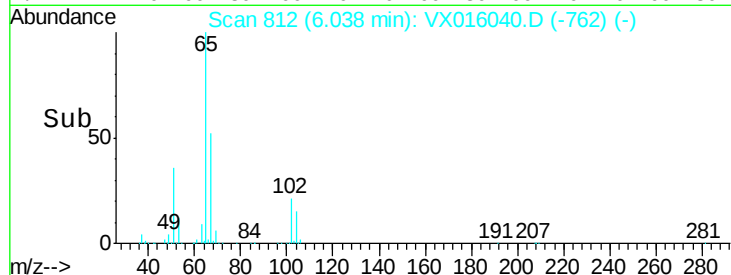
40000

20000

0

Time-->

5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

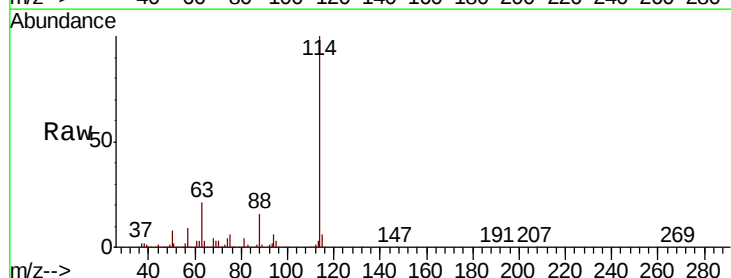
Tgt Ion: 114 Resp: 479548

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

88 16.0 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

250000

200000

150000

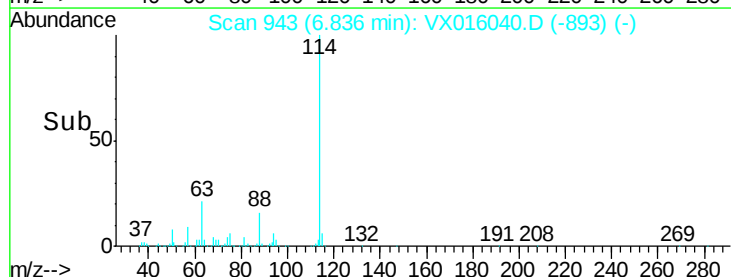
100000

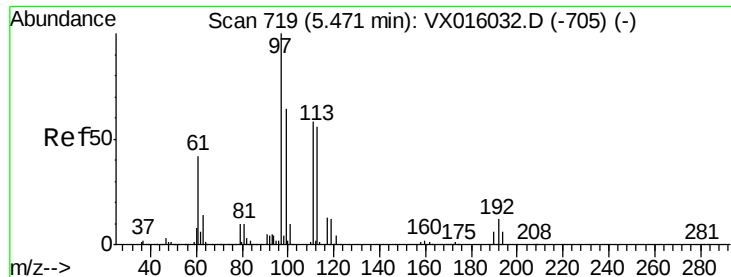
50000

0

Time-->

6.70 6.80 6.90 7.00

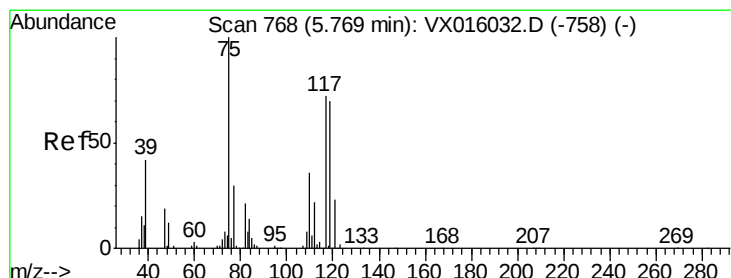
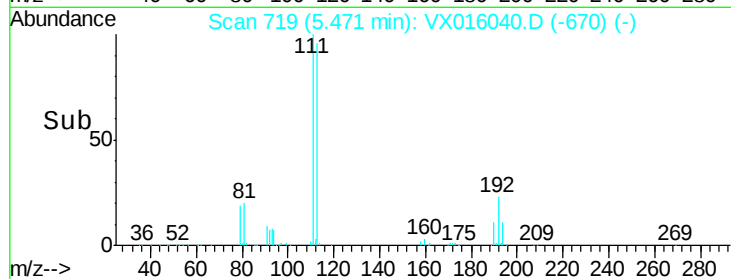
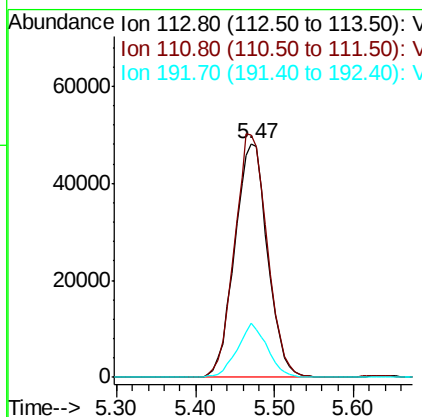
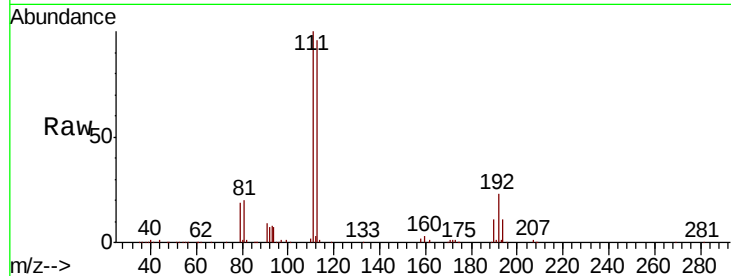




#35
Dibromofluoromethane
Concen: 45.893 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

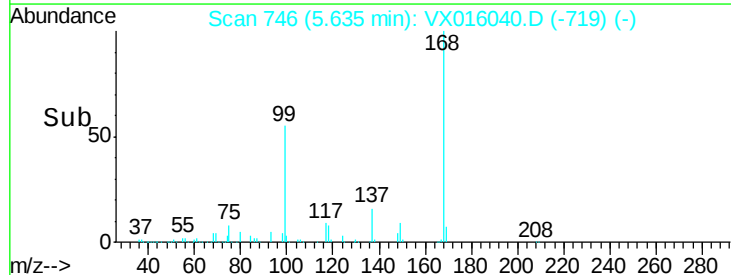
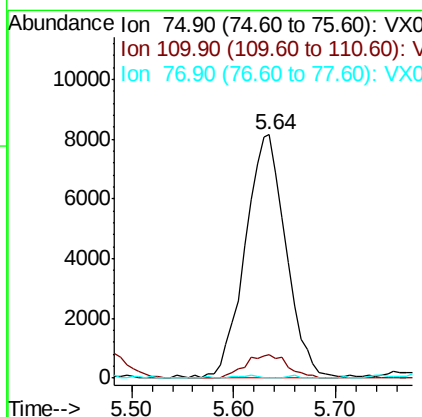
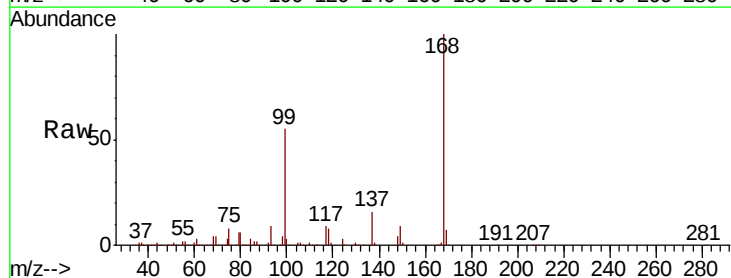
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ194I-20200429

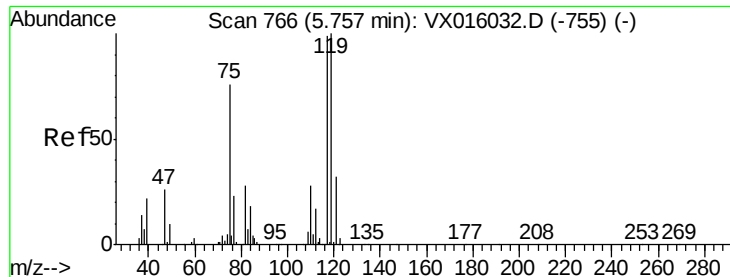
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.6	122.4
192	21.2	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.798 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.13 min
Lab File: VX016040.D
Acq: 04 May 2020 17:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.1	54.1#
77	0.5	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.963 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ194I-20200429

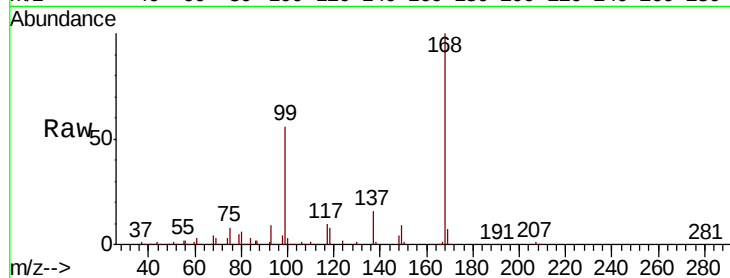
Tot Ion:117 Resp: 28609

Ion Ratio Lower Upper

117 100

119 4.4 80.3 120.5#

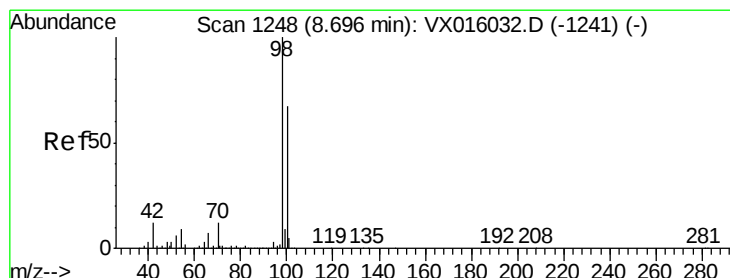
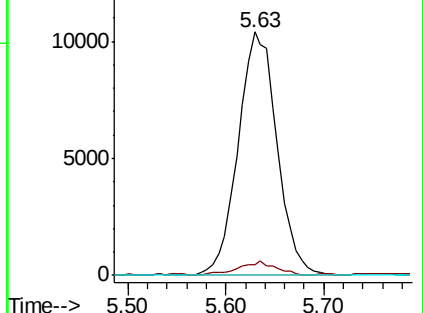
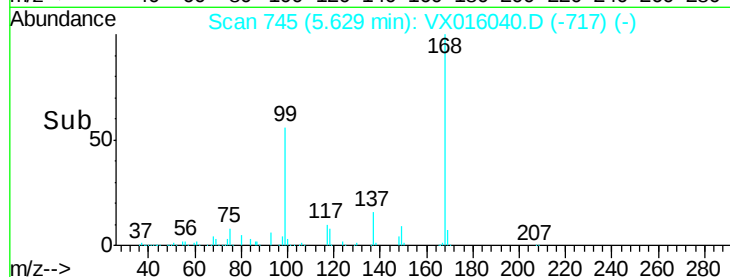
121 0.0 25.7 38.5#



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



#50

Toluene-d8

Concen: 49.952 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016040.D

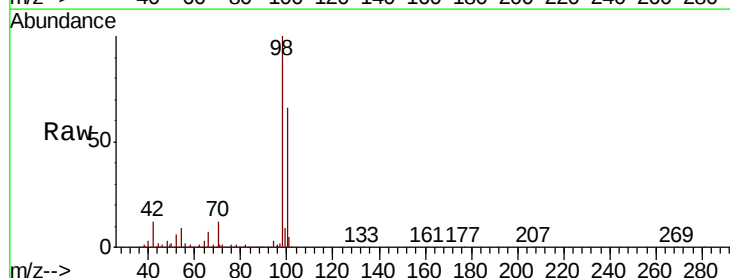
Acq: 04 May 2020 17:08

Tgt Ion: 98 Resp: 584748

Ion Ratio Lower Upper

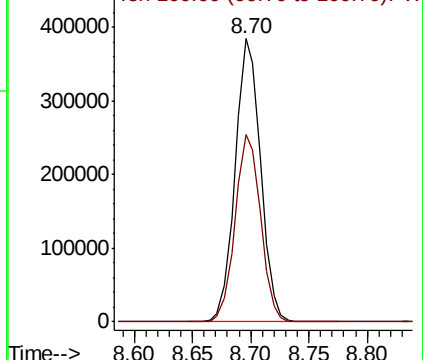
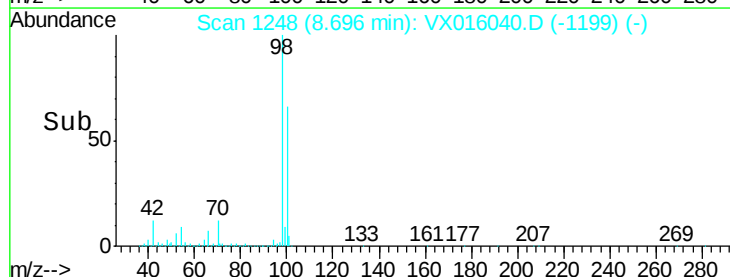
98 100

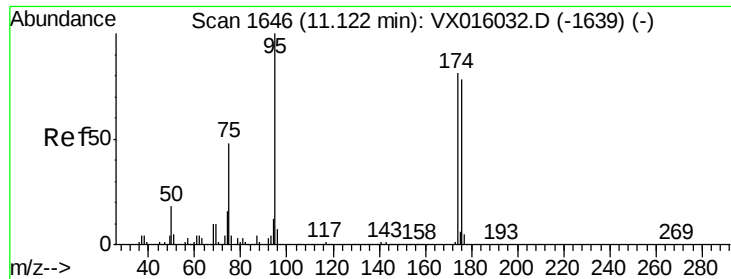
100 66.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 52.094 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ194I-20200429

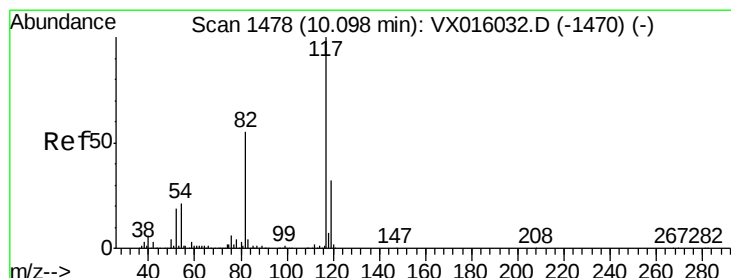
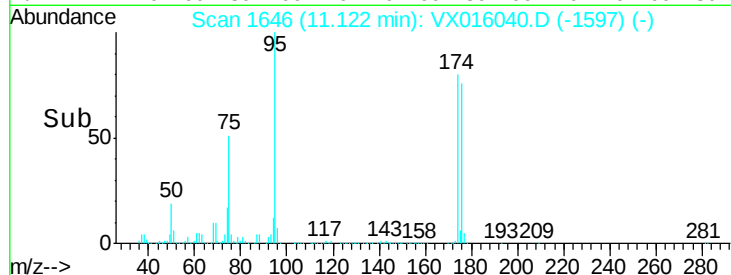
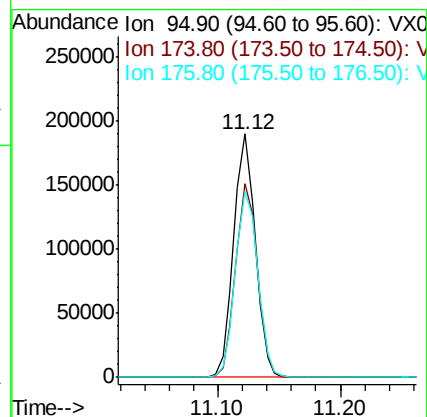
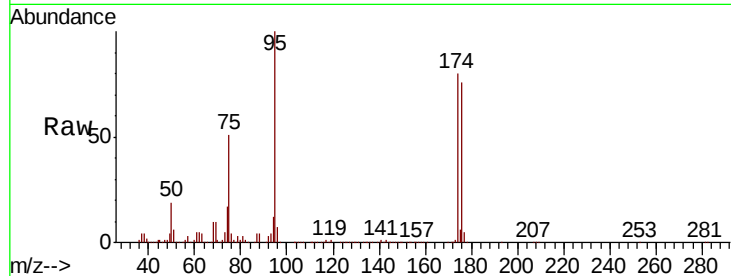
Tot Ion: 95 Resp: 231949

Ion Ratio Lower Upper

95 100

174 80.3 0.0 159.4

176 79.2 0.0 157.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

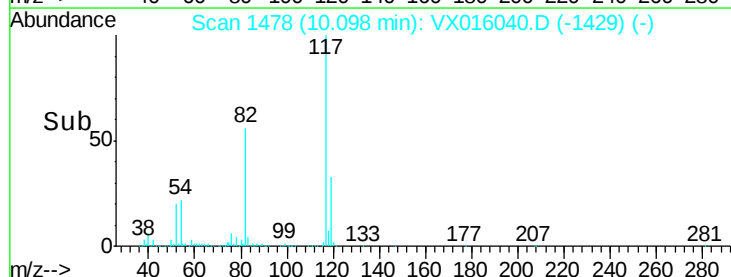
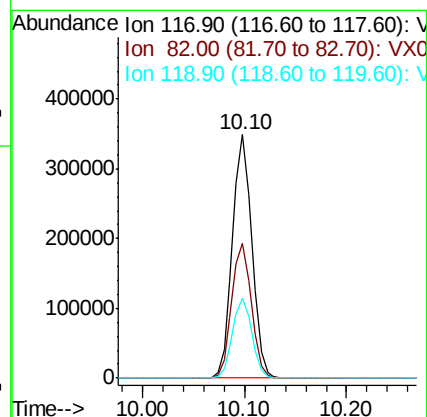
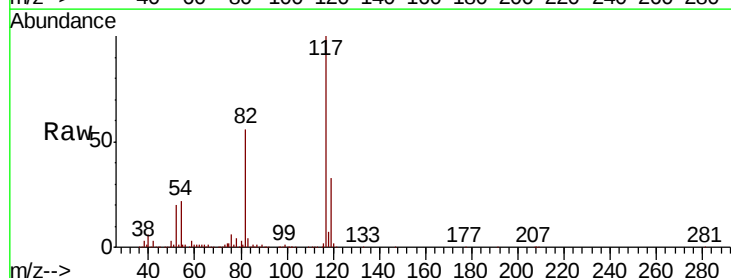
Tgt Ion: 117 Resp: 460508

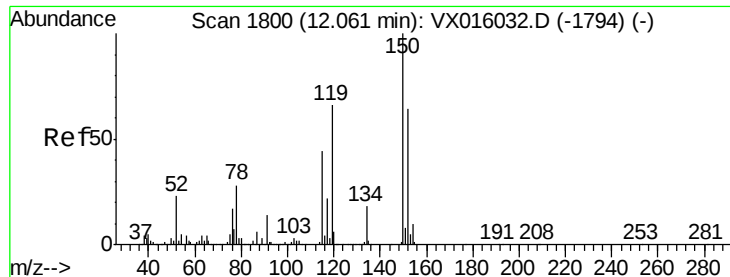
Ion Ratio Lower Upper

117 100

82 55.6 44.4 66.6

119 32.6 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ194I-20200429

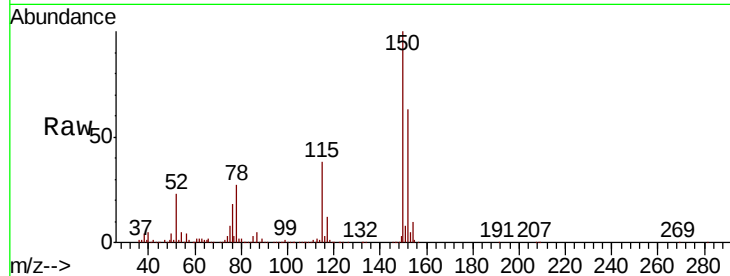
Tot Ion:152 Resp: 231592

Ion Ratio Lower Upper

152 100

115 59.1 41.3 124.1

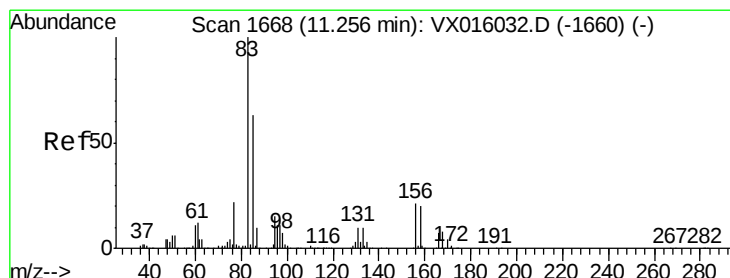
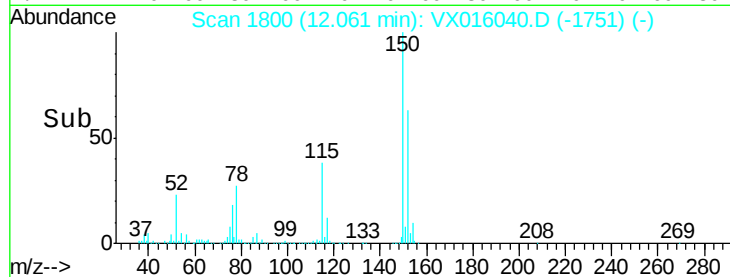
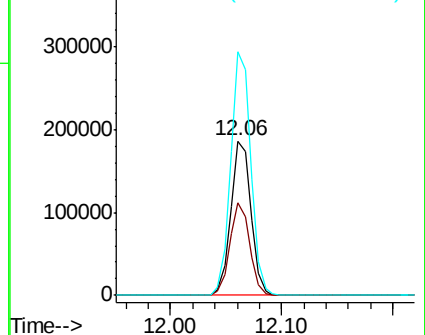
150 157.7 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 4.832 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

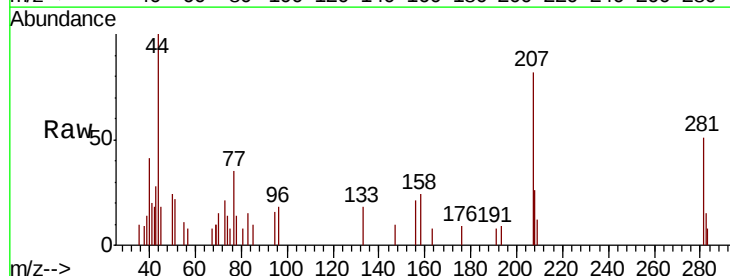
Tgt Ion: 83 Resp: 82

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

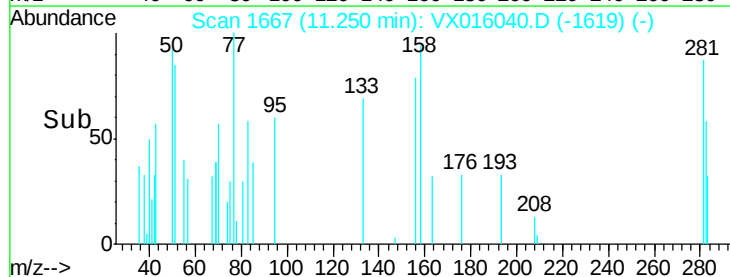
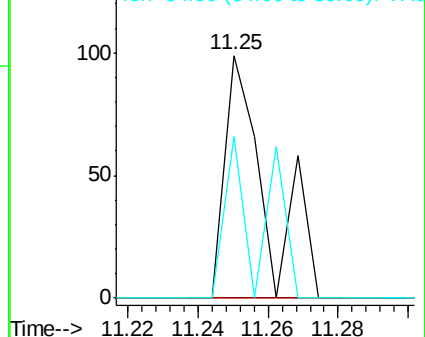
85 57.3 32.0 96.0

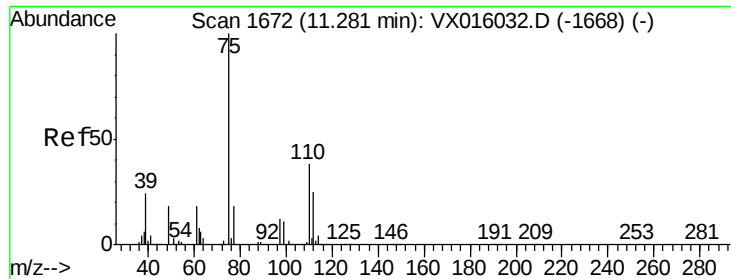


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 22.699 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

Instrument :

MSVOA_X

ClientSampleId :

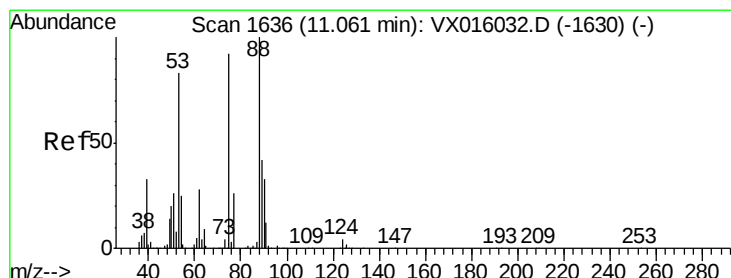
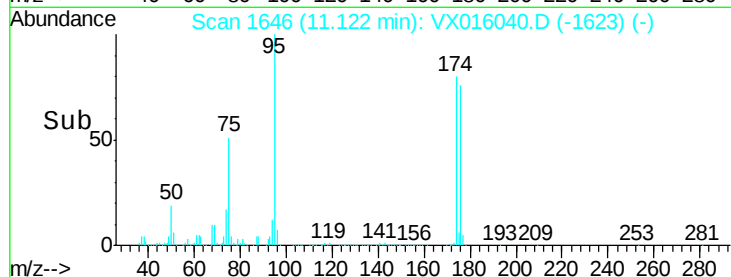
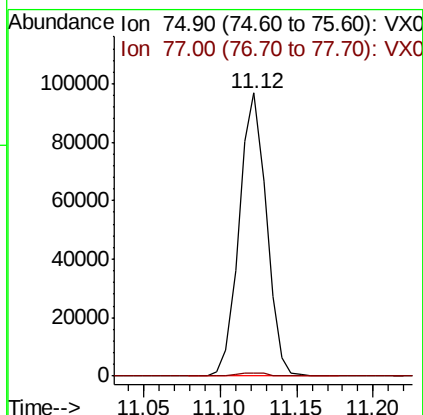
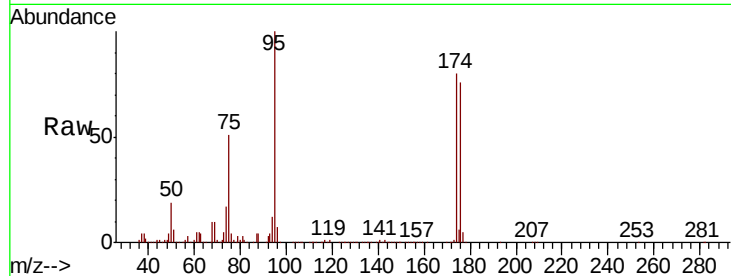
SA-PZ194I-20200429

Tot Ion: 75 Resp: 119291

Ion Ratio Lower Upper

75 100

77 1.5 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 54.093 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016040.D

Acq: 04 May 2020 17:08

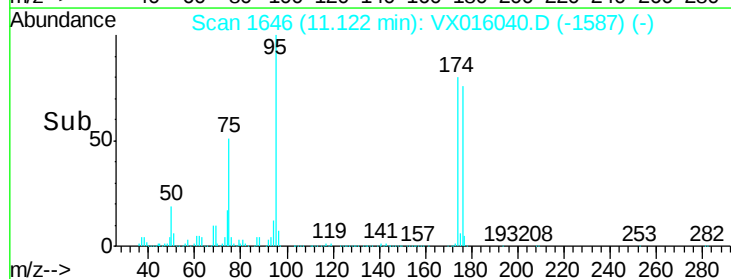
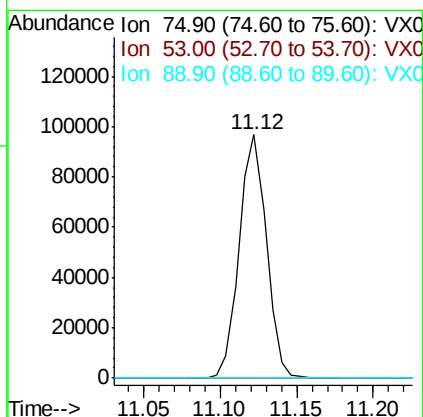
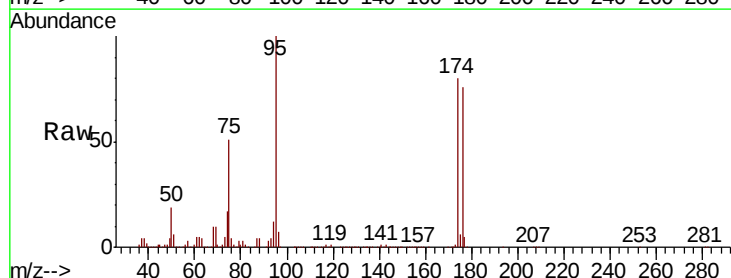
Tgt Ion: 75 Resp: 119291

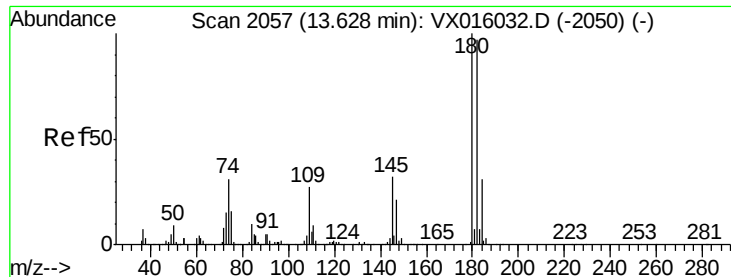
Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#

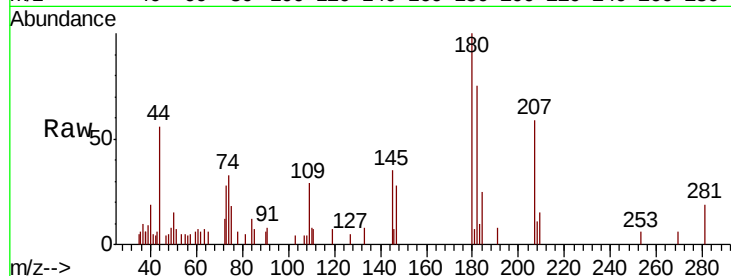




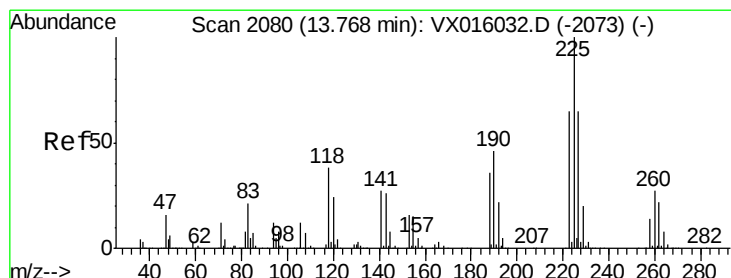
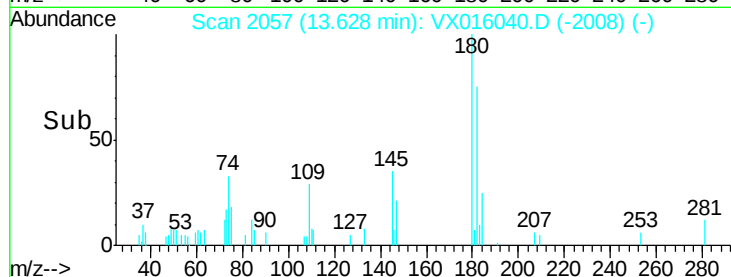
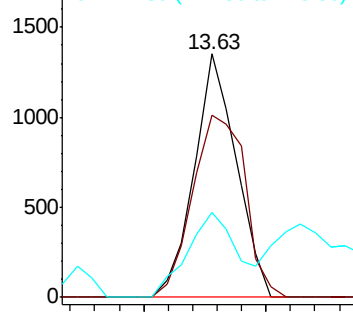
#93
 1,2,4-Trichlorobenzene
 Concen: 0.292 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX016040.D
 Acq: 04 May 2020 17:08

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ194I-20200429

Tot Ion:180 Resp: 1624
 Ion Ratio Lower Upper
 180 100
 182 93.4 48.7 146.1
 145 42.1 15.7 47.1

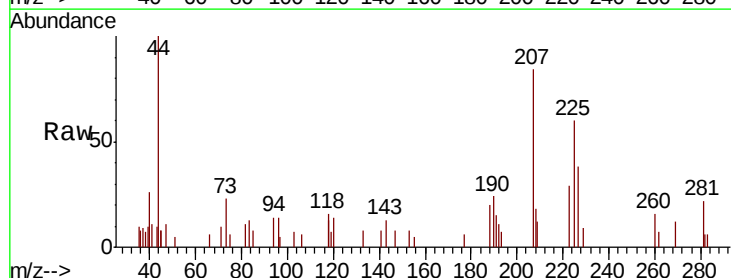


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.761 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016040.D
 Acq: 04 May 2020 17:08

Tgt Ion:225 Resp: 576
 Ion Ratio Lower Upper
 225 100
 223 47.2 32.3 96.9
 227 64.4 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

