

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061820\
 Data File : VX016851.D
 Acq On : 18 Jun 2020 20:53
 Operator : JC/SP
 Sample : L3020-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01_061520

Quant Time: Jun 19 03:02:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 18 15:20:47 2020
 Response via : Initial Calibration

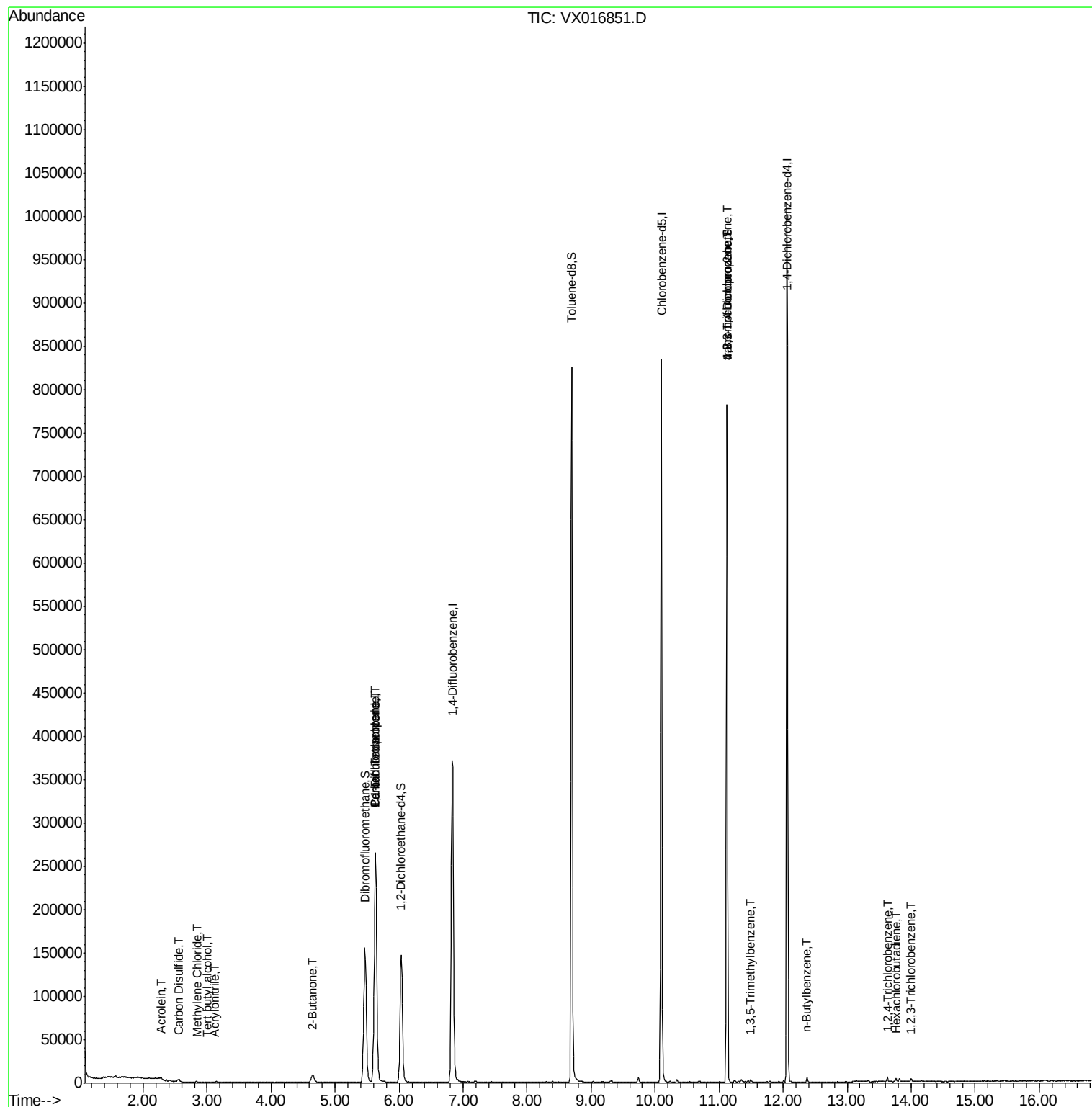
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	267406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	403677	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	402160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215266	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	142012	44.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.32%	
35) Dibromofluoromethane	5.47	113	138599	53.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.34%	
50) Toluene-d8	8.70	98	507447	49.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.12	95	200292	50.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.20%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	233	Below Cal		98
5) Bromomethane	1.64	94	583	Below Cal	#	76
11) Tert butyl alcohol	3.01	59	460	0.846	ug/l #	72
13) Acrolein	2.28	56	421	1.277	ug/l #	1
15) Acrylonitrile	3.12	53	538	0.432	ug/l #	81
16) Acetone	2.42	43	1259	Below Cal	#	67
17) Carbon Disulfide	2.55	76	2900	0.393	ug/l	96
20) Methylene Chloride	2.84	84	610	0.218	ug/l	89
25) 2-Butanone	4.65	43	702	0.437	ug/l #	45
36) 1,1-Dichloropropene	5.63	75	18134	4.865	ug/l #	48
38) Carbon Tetrachloride	5.63	117	25320	6.054	ug/l #	14
58) 2-Chloroethyl Vinyl ether	8.31	63	92	Below Cal	#	42
59) 2-Hexanone	9.48	43	222	Below Cal	#	21
73) Isopropylbenzene	11.01	105	612	Below Cal		90
76) 1,2,3-Trichloropropane	11.12	75	95912	24.269	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	640	0.257	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	95912	59.742	ug/l #	14
89) n-Butylbenzene	12.37	91	1738	3.149	ug/l	96
93) 1,2,4-Trichlorobenzene	13.63	180	1584	0.354	ug/l	90
94) Hexachlorobutadiene	13.77	225	612	0.303	ug/l	85
96) 1,2,3-Trichlorobenzene	14.00	180	1023	0.229	ug/l	96

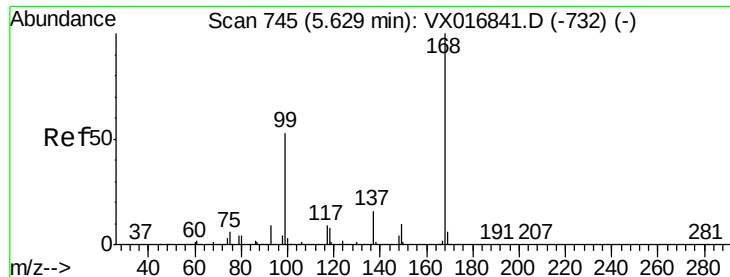
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 18 15:20:47 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

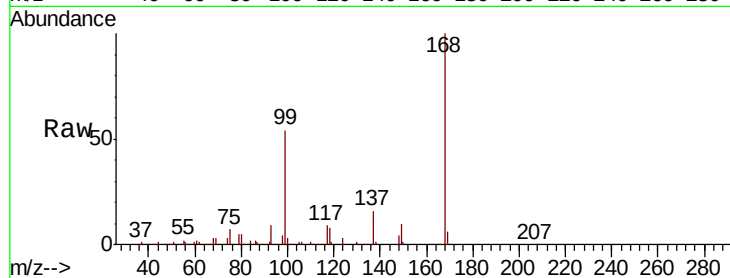
TB-01_061520

Tot Ion:168 Resp: 267406

Ion Ratio Lower Upper

168 100

99 54.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

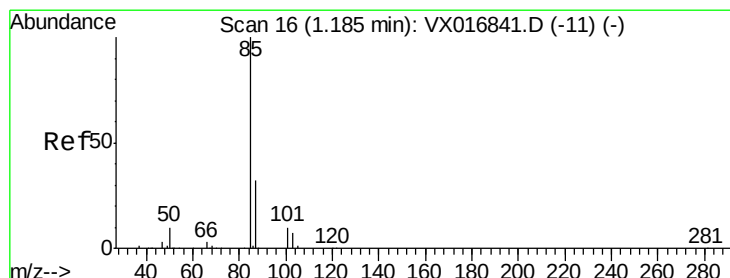
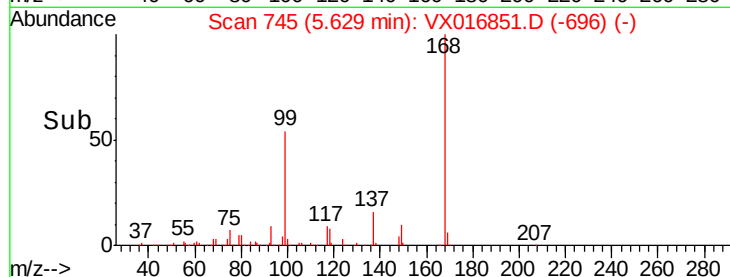
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX016851.D

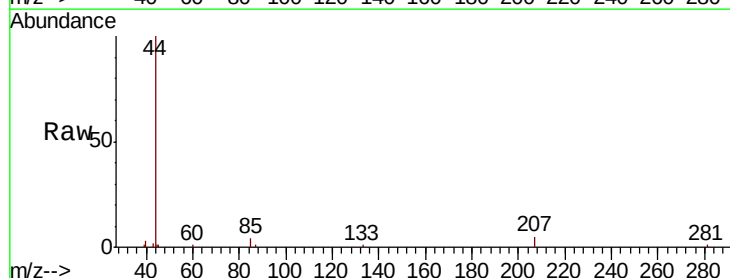
Acq: 18 Jun 2020 20:53

Tgt Ion: 85 Resp: 233

Ion Ratio Lower Upper

85 100

87 30.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

250

200

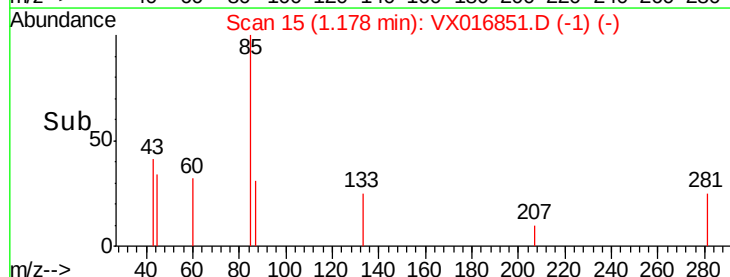
150

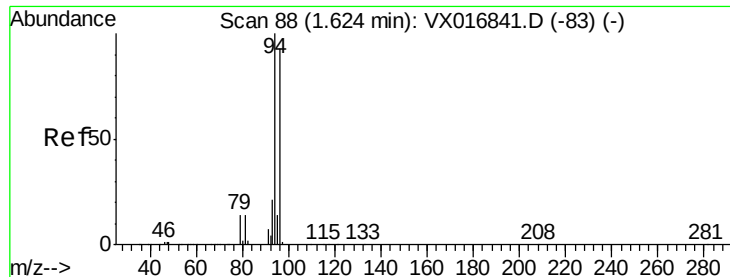
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

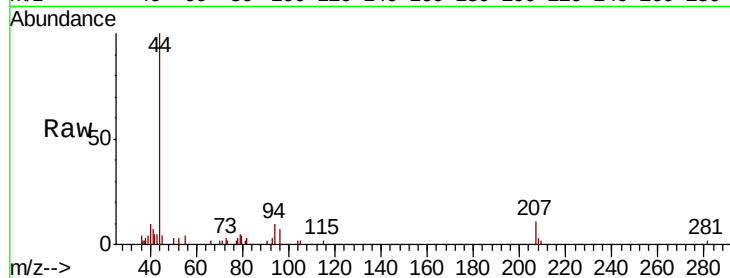
TB-01_061520

Tot Ion: 94 Resp: 583

Ion Ratio Lower Upper

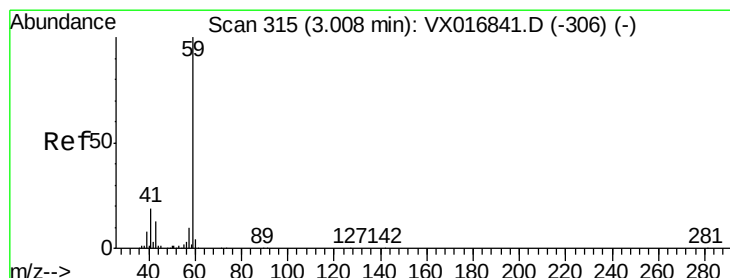
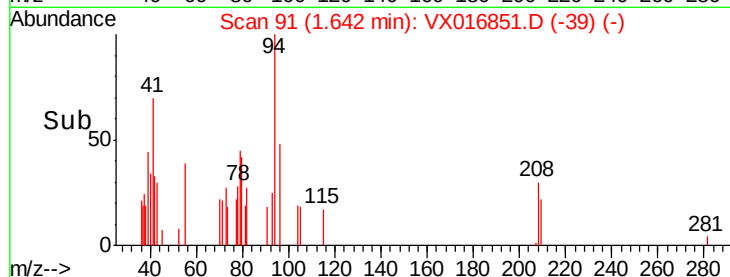
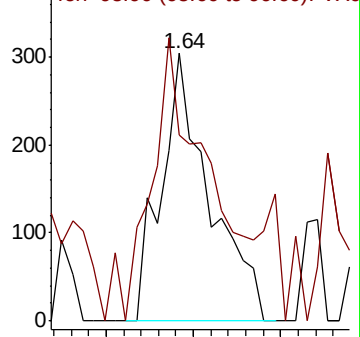
94 100

96 69.7 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.846 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.00 min

Lab File: VX016851.D

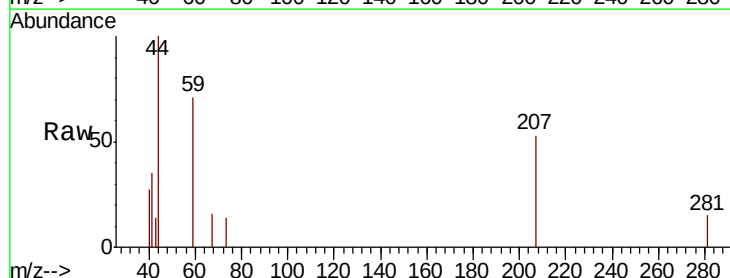
Acq: 18 Jun 2020 20:53

Tgt Ion: 59 Resp: 460

Ion Ratio Lower Upper

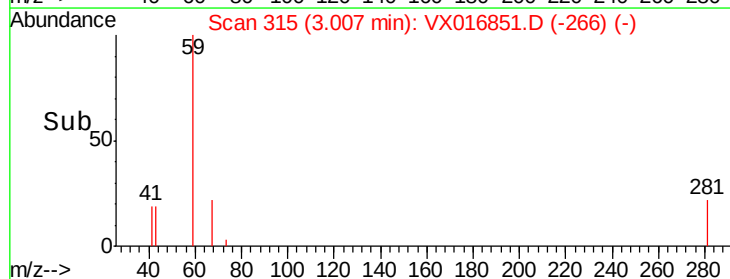
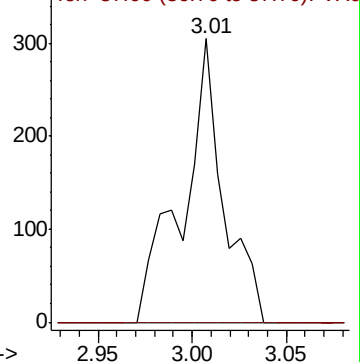
59 100

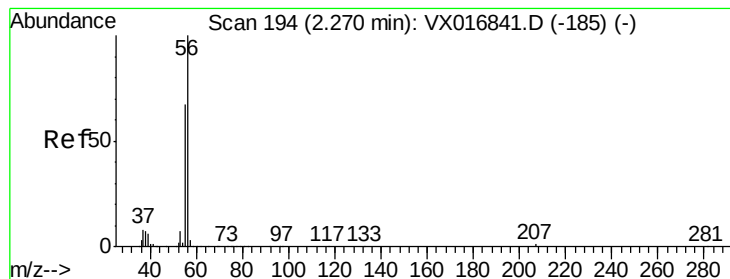
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.277 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

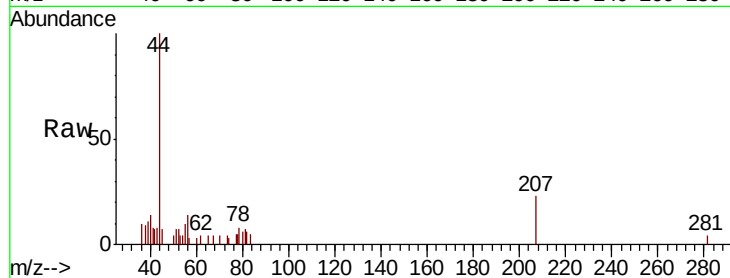
TB-01_061520

Tot Ion: 56 Resp: 421

Ion Ratio Lower Upper

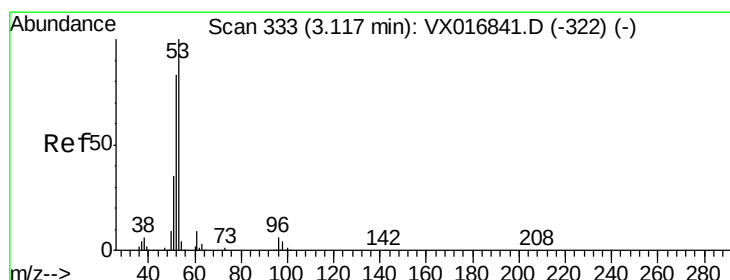
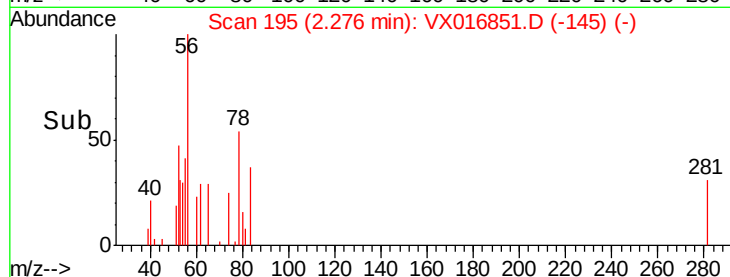
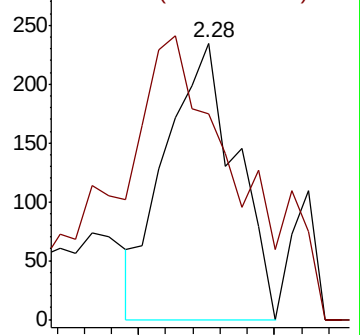
56 100

55 166.5 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.432 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

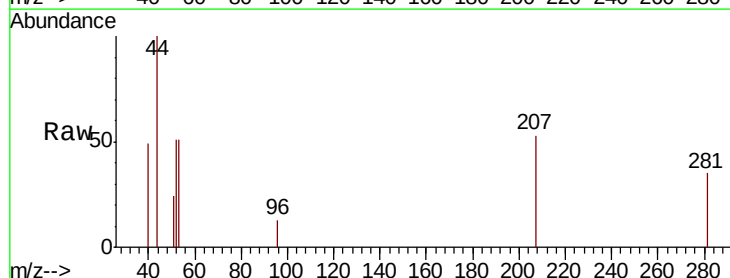
Tgt Ion: 53 Resp: 538

Ion Ratio Lower Upper

53 100

52 99.4 66.2 99.2#

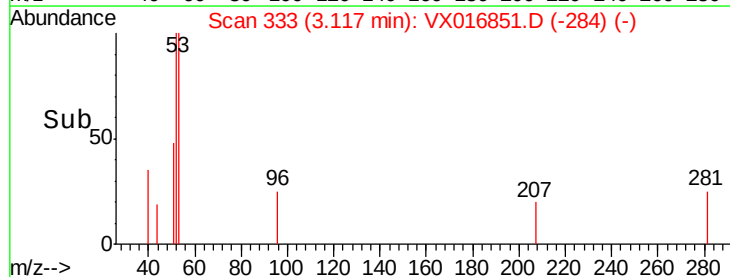
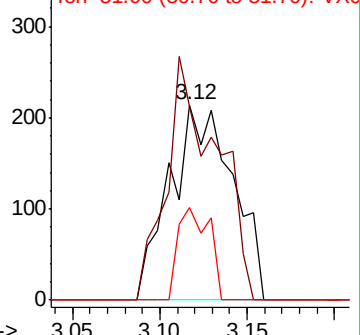
51 23.8 28.7 43.1#

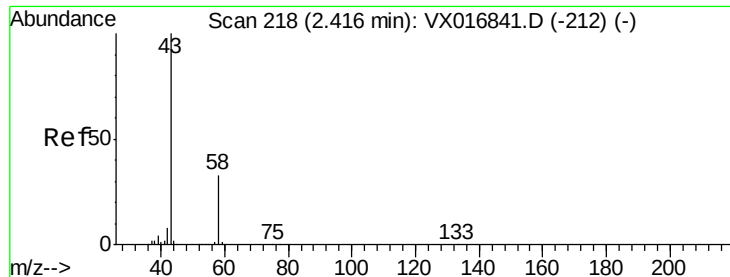


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

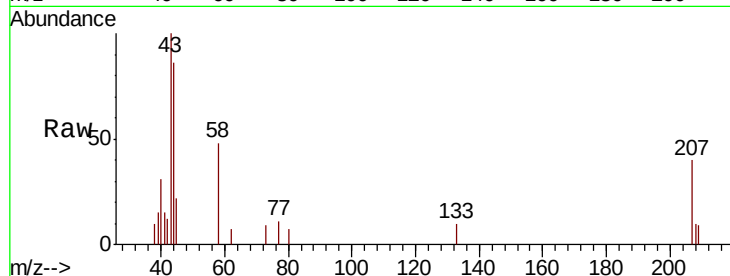
TB-01_061520

Tot Ion: 43 Resp: 1259

Ion Ratio Lower Upper

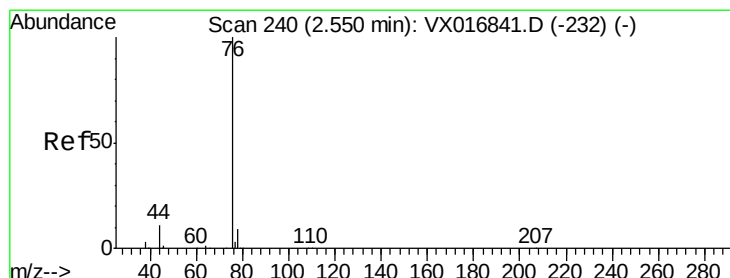
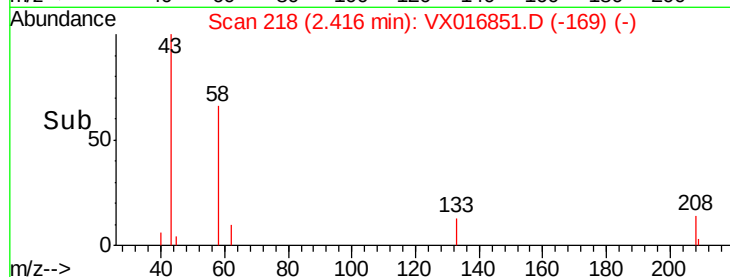
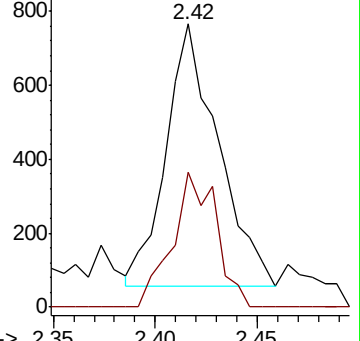
43 100

58 51.6 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.393 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016851.D

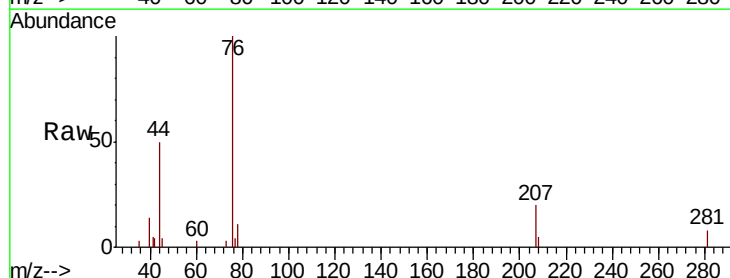
Acq: 18 Jun 2020 20:53

Tgt Ion: 76 Resp: 2900

Ion Ratio Lower Upper

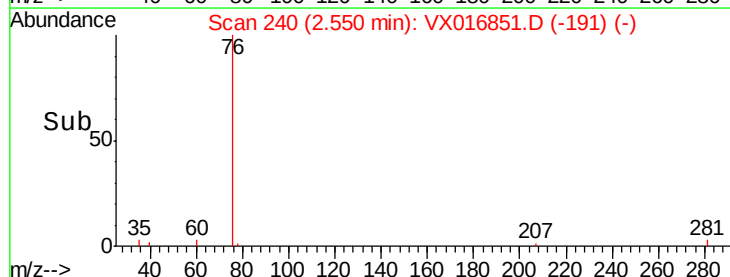
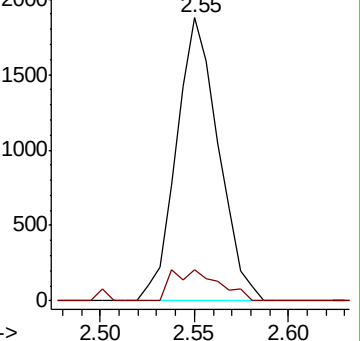
76 100

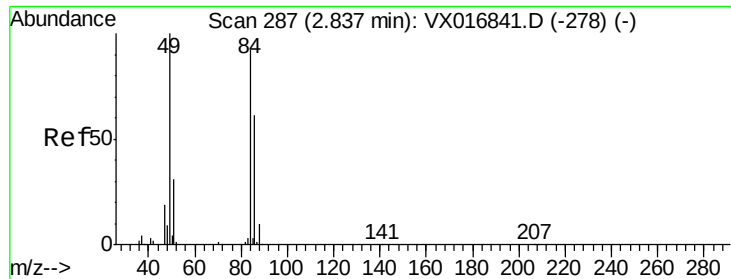
78 10.9 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

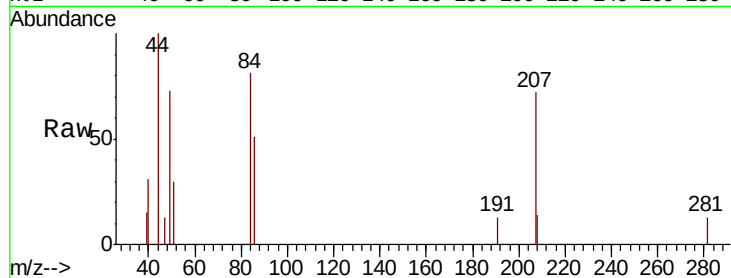




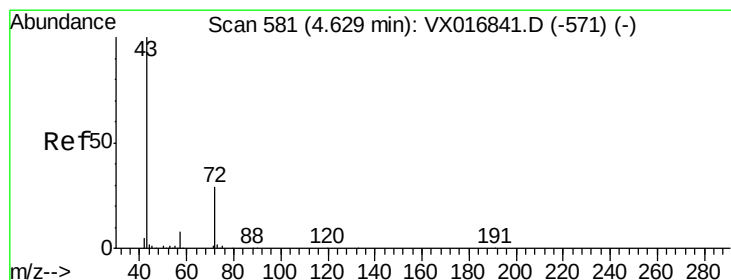
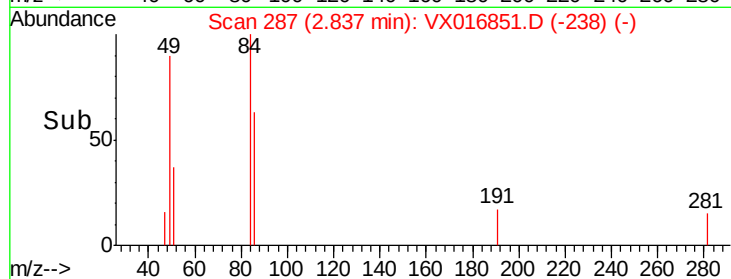
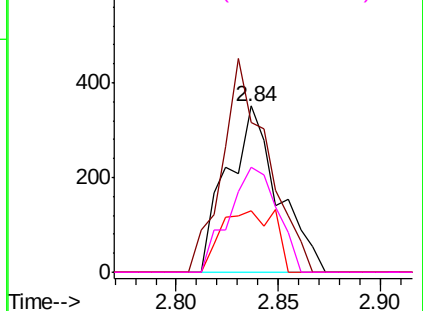
#20
Methylene Chloride
Concen: 0.218 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016851.D
Acq: 18 Jun 2020 20:53

Instrument :
MSVOA_X
ClientSampleId :
TB-01_061520

Tot Ion:	84	Resp:	610
Ion	Ratio	Lower	Upper
84	100		
49	90.3	86.6	129.8
51	36.8	27.1	40.7
86	63.2	53.1	79.7

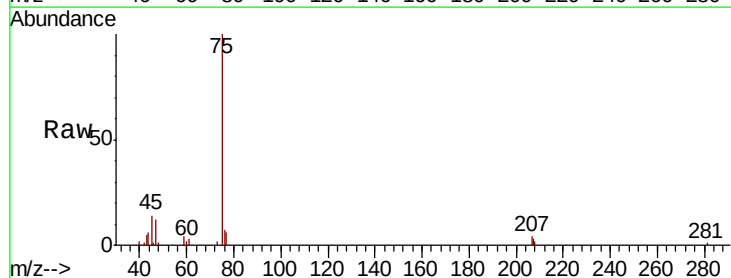


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

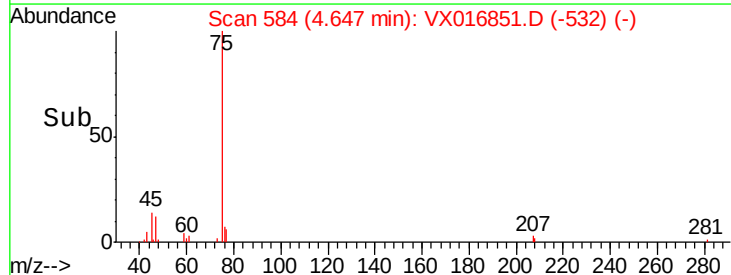
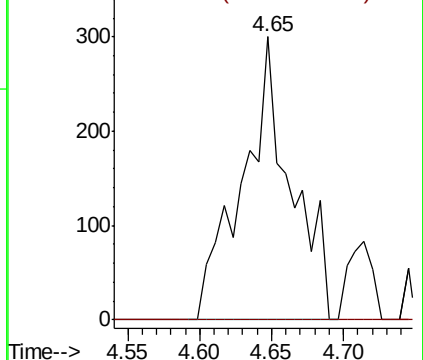


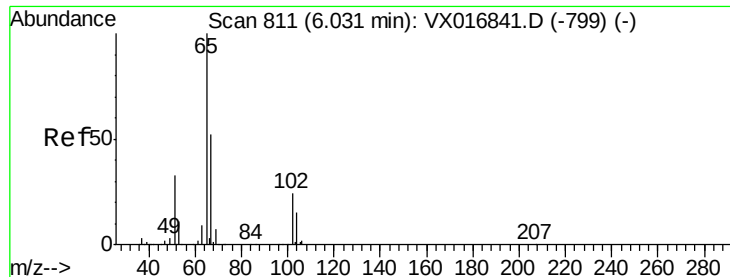
#25
2-Butanone
Concen: 0.437 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX016851.D
Acq: 18 Jun 2020 20:53

Tgt Ion:	43	Resp:	702
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.5	35.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

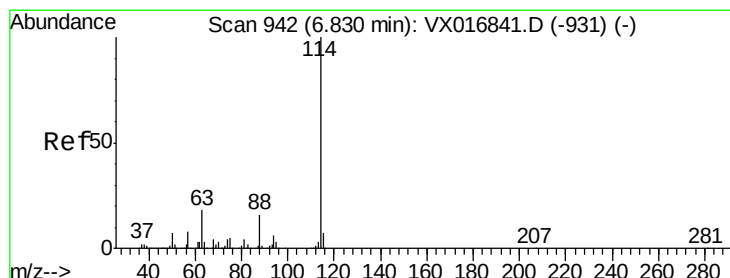
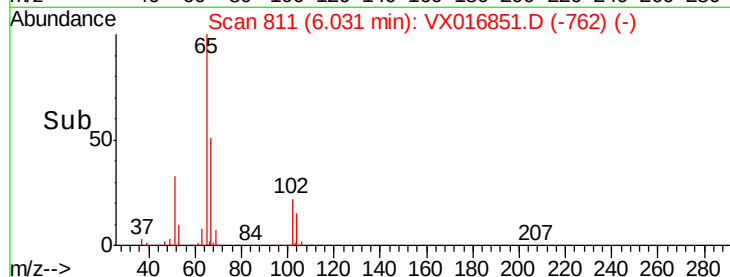
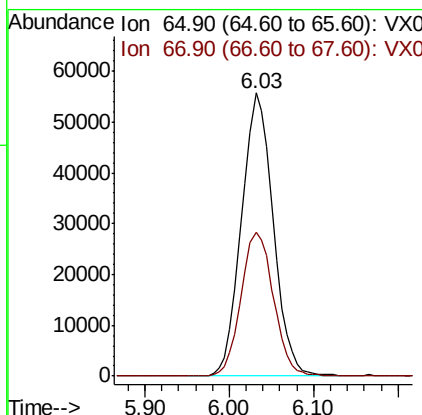
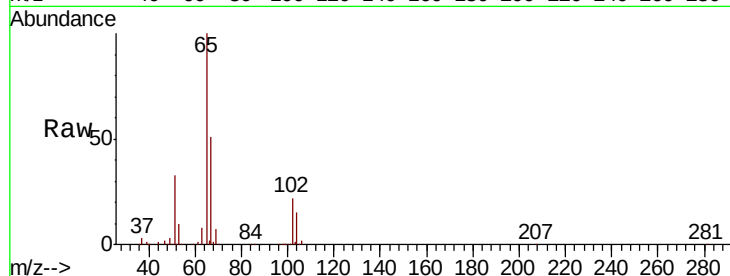




#33
 1,2-Dichloroethane-d4
 Concen: 44.158 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX016851.D
 Acq: 18 Jun 2020 20:53

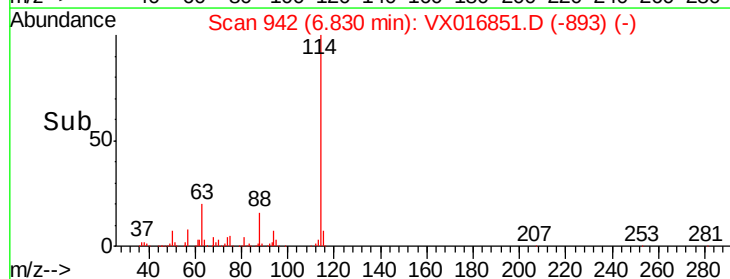
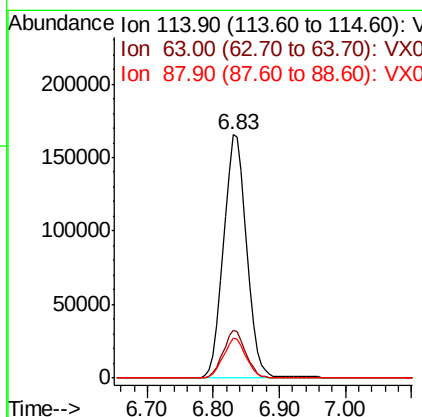
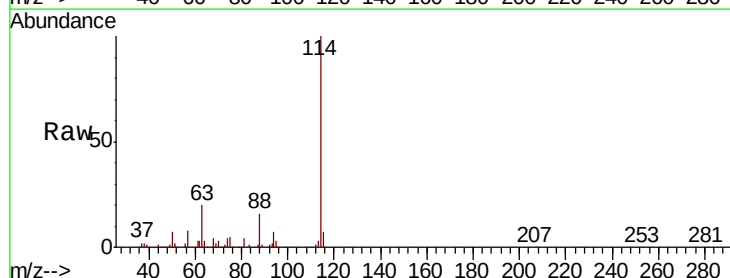
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01_061520

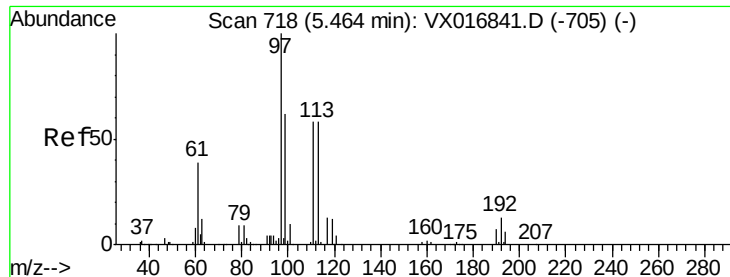
Tot Ion: 65 Resp: 142012
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX016851.D
 Acq: 18 Jun 2020 20:53

Tgt Ion: 114 Resp: 403677
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 37.0
 88 16.3 0.0 32.0





#35

Dibromofluoromethane

Concen: 53.672 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TB-01_061520

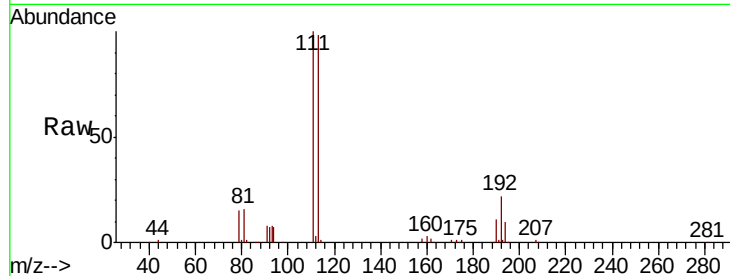
Tot Ion:113 Resp: 138599

Ion Ratio Lower Upper

113 100

111 102.8 81.0 121.4

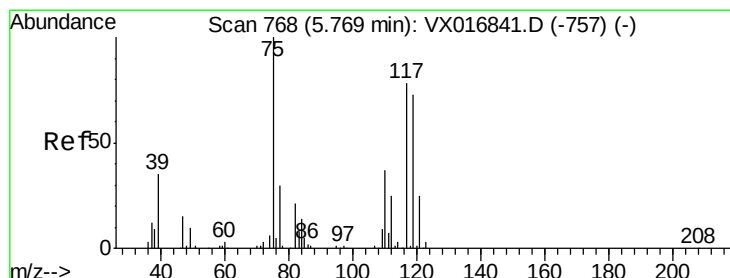
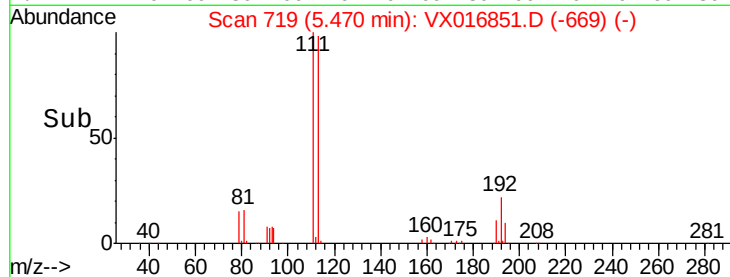
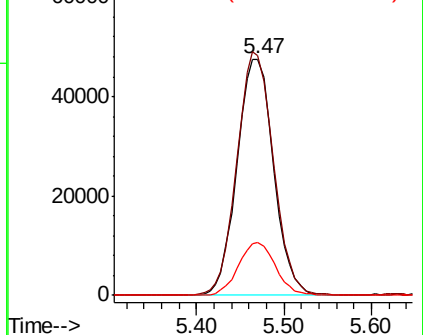
192 22.6 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.865 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

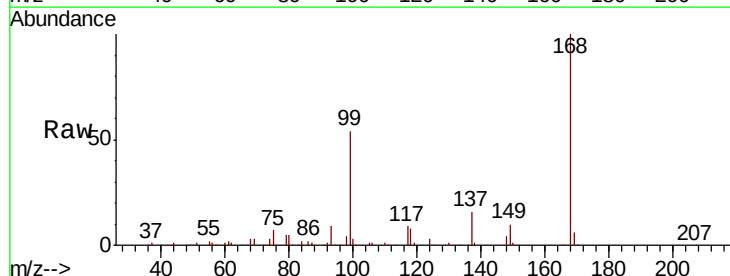
Tgt Ion: 75 Resp: 18134

Ion Ratio Lower Upper

75 100

110 9.5 18.9 56.9#

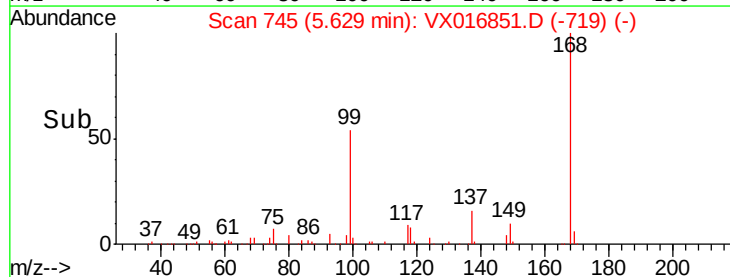
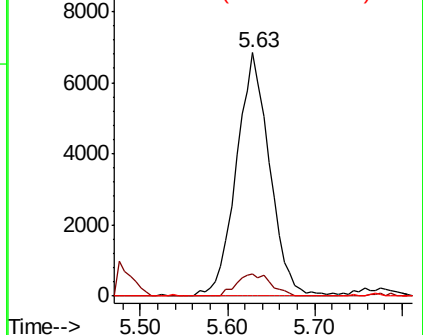
77 0.0 25.6 38.4#

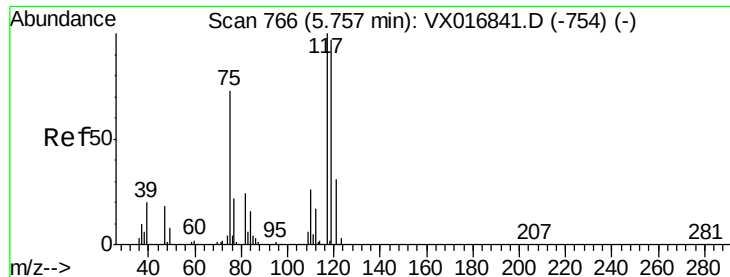


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.054 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TB-01_061520

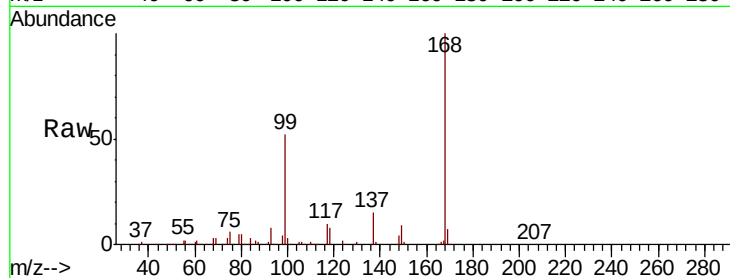
Tot Ion:117 Resp: 25320

Ion Ratio Lower Upper

117 100

119 3.3 77.4 116.2#

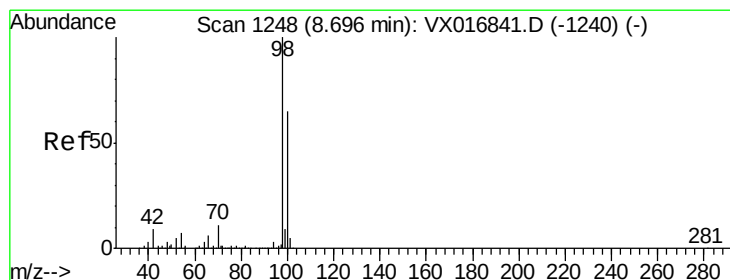
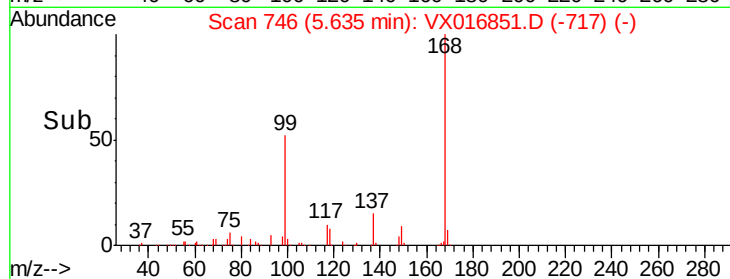
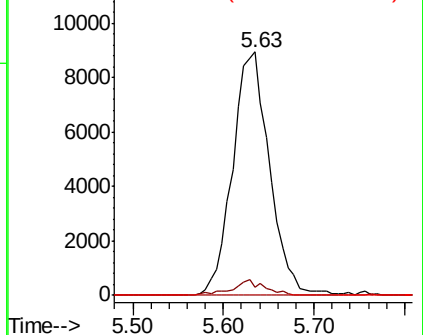
121 0.0 24.7 37.1#



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: 49.116 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016851.D

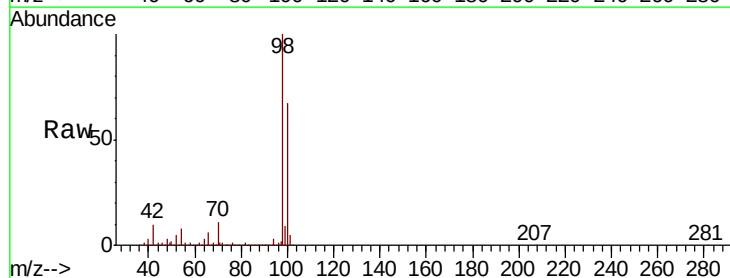
Acq: 18 Jun 2020 20:53

Tgt Ion: 98 Resp: 507447

Ion Ratio Lower Upper

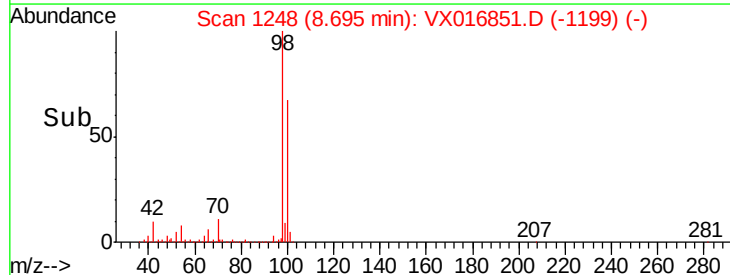
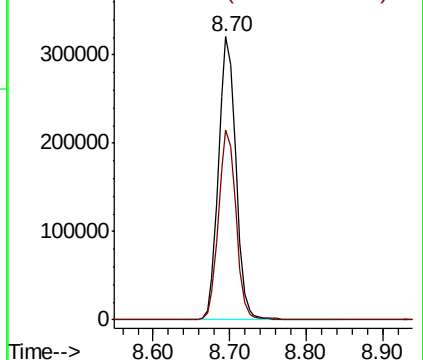
98 100

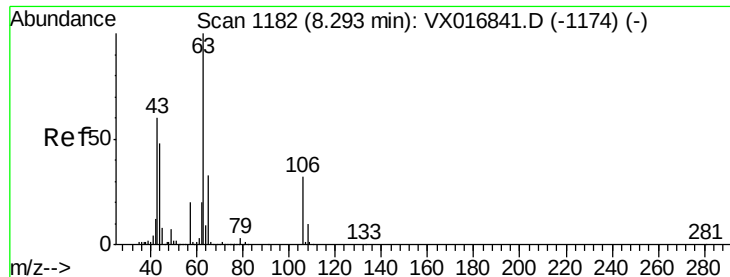
100 67.5 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 8.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

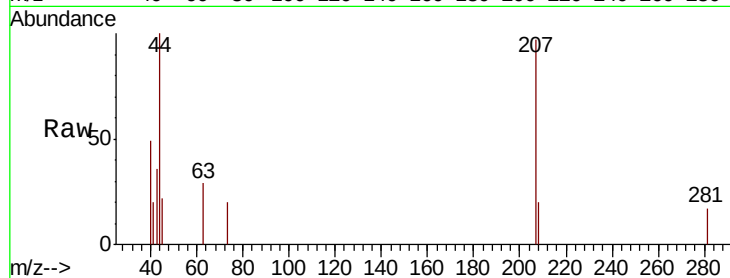
TB-01_061520

Tot Ion: 63 Resp: 92

Ion Ratio Lower Upper

63 100

106 0.0 25.8 38.6#

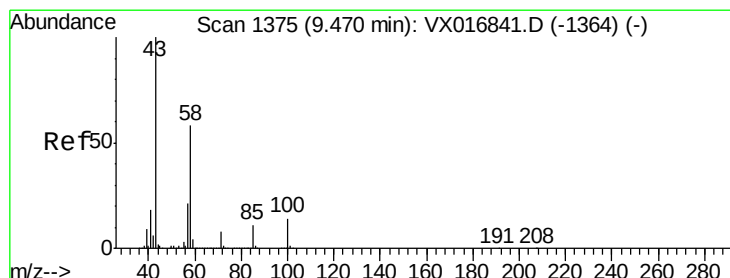
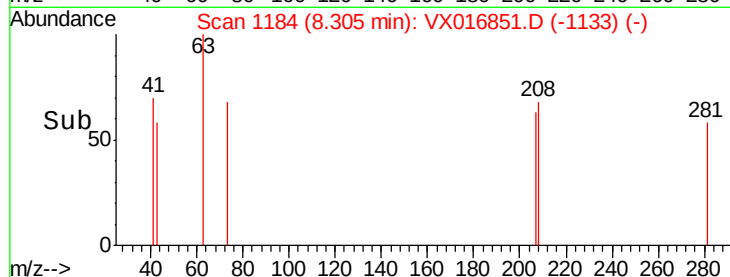


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): VX0

8.31

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.48 min Scan# 1377

Delta R.T. 0.01 min

Lab File: VX016851.D

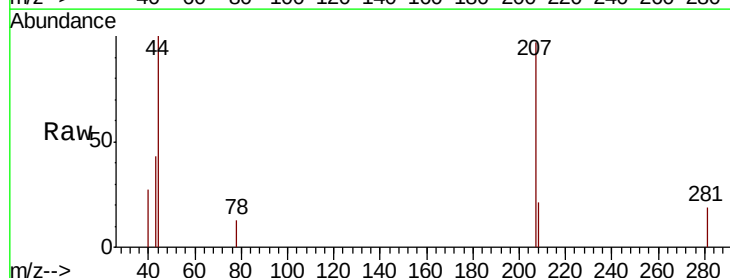
Acq: 18 Jun 2020 20:53

Tgt Ion: 43 Resp: 222

Ion Ratio Lower Upper

43 100

58 0.0 29.8 89.4#

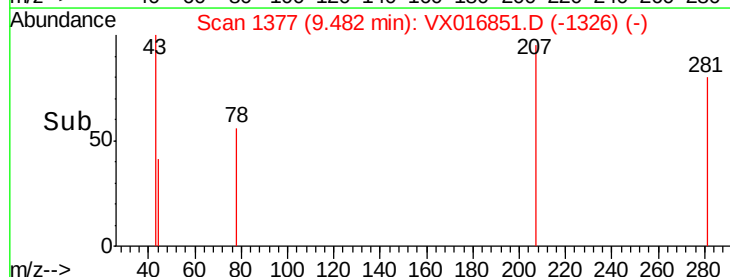


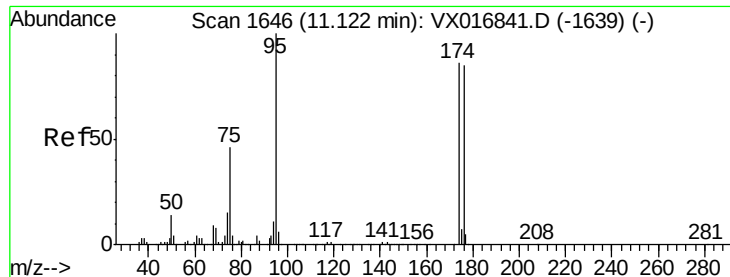
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.48

Time-->





#62

4-Bromofluorobenzene

Concen: 50.599 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TB-01_061520

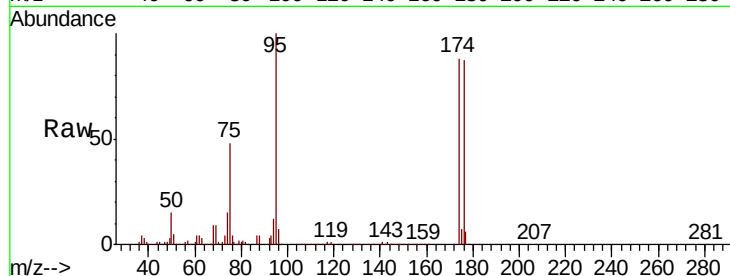
Tot Ion: 95 Resp: 200292

Ion Ratio Lower Upper

95 100

174 88.2 0.0 174.2

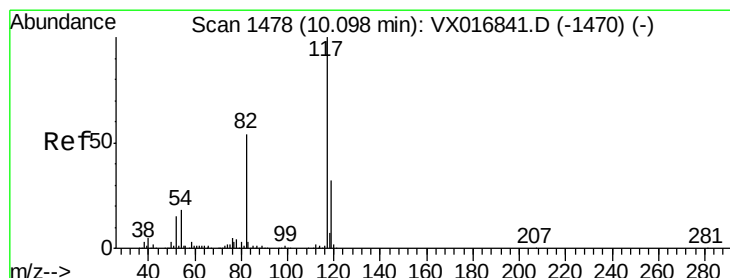
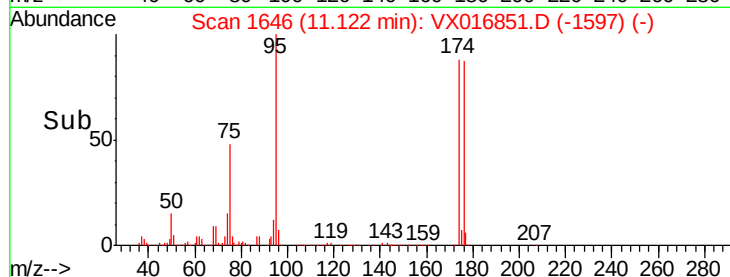
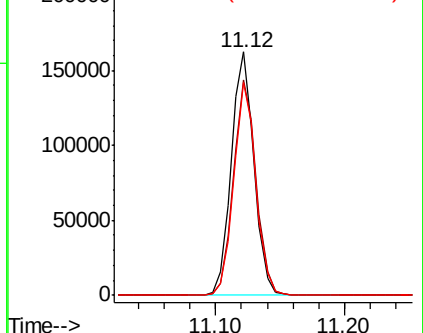
176 84.9 0.0 170.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

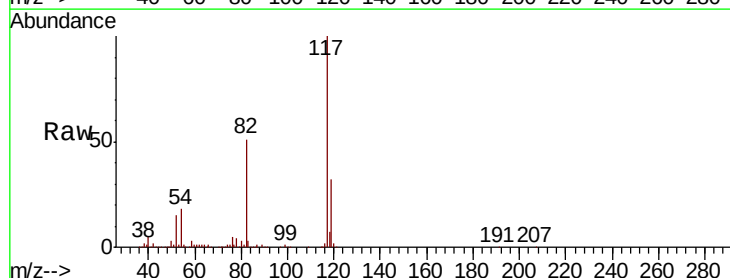
Tgt Ion: 117 Resp: 402160

Ion Ratio Lower Upper

117 100

82 51.4 43.4 65.0

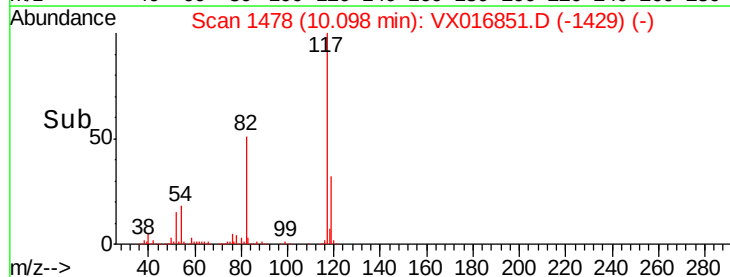
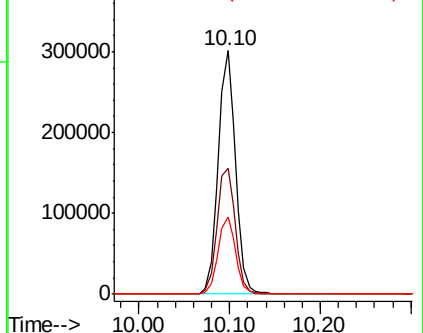
119 31.5 25.7 38.5

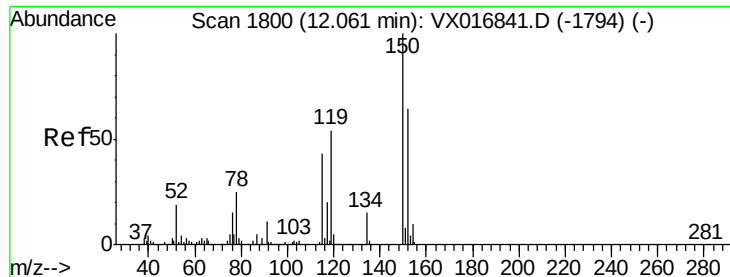


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TB-01_061520

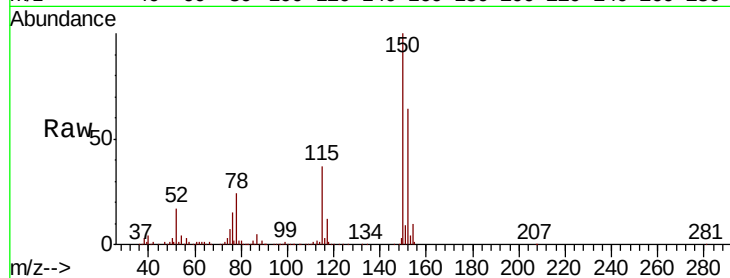
Tot Ion:152 Resp: 215266

Ion Ratio Lower Upper

152 100

115 58.0 40.9 122.8

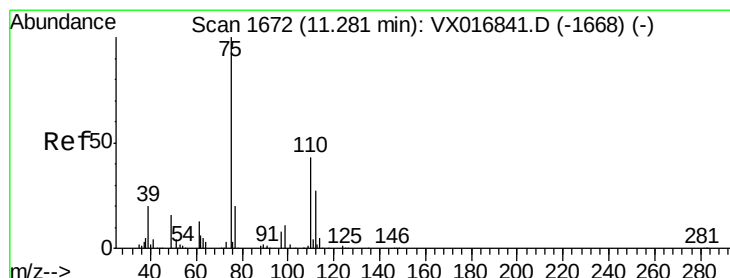
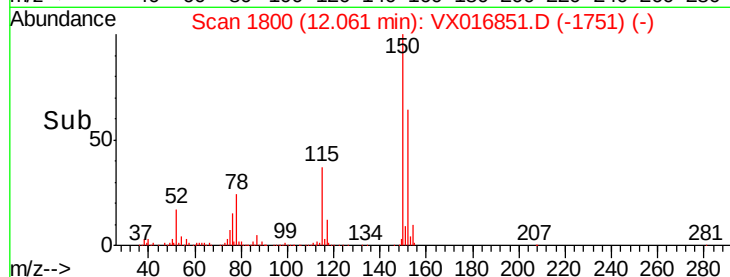
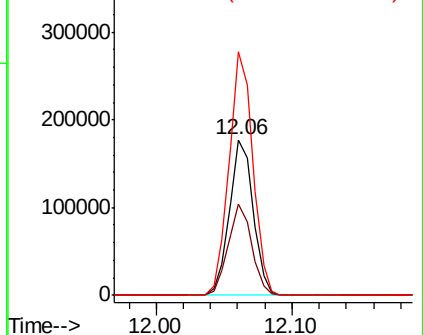
150 156.7 0.0 344.2



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



#76

1,2,3-Trichloropropane

Concen: 24.269 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016851.D

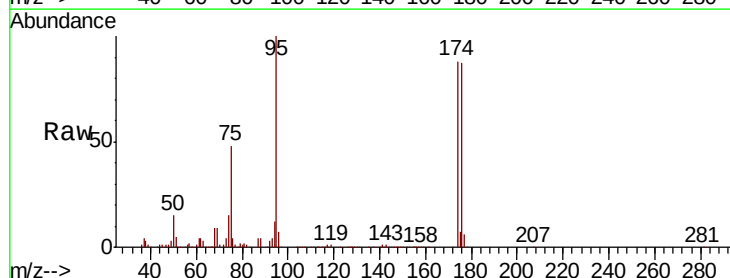
Acq: 18 Jun 2020 20:53

Tgt Ion: 75 Resp: 95912

Ion Ratio Lower Upper

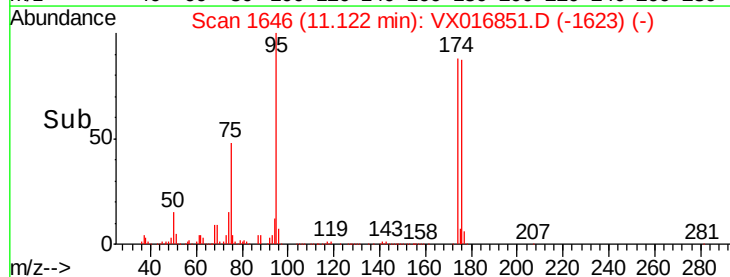
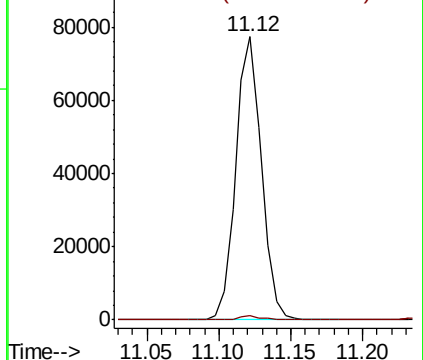
75 100

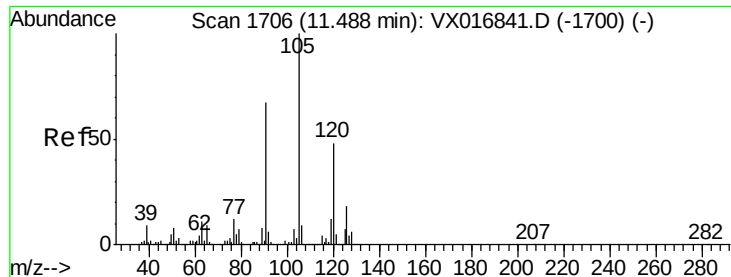
77 1.3 20.5 61.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

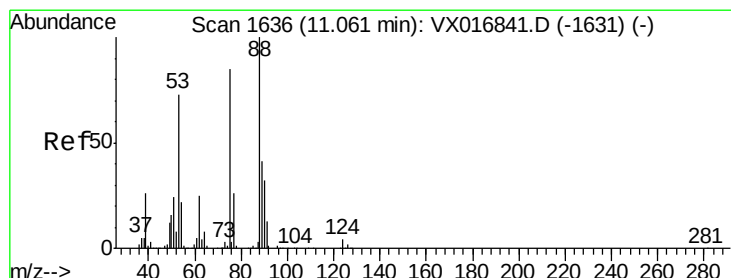
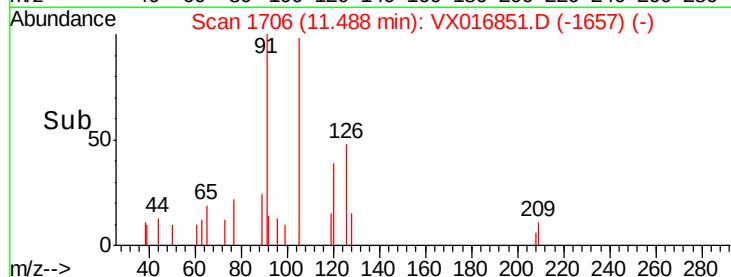
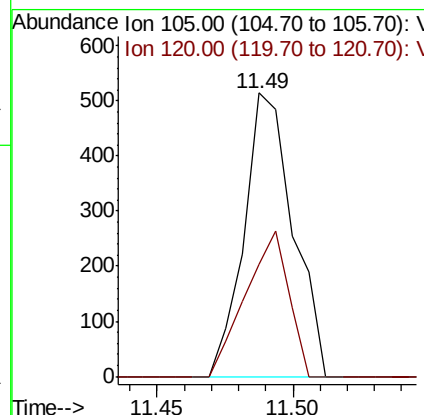
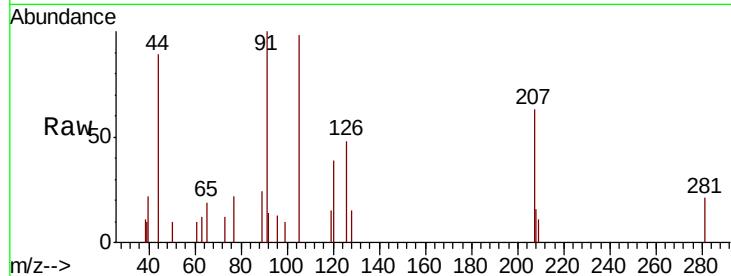




#80
 1,3,5-Trimethylbenzene
 Concen: 0.257 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VX016851.D
 Acq: 18 Jun 2020 20:53

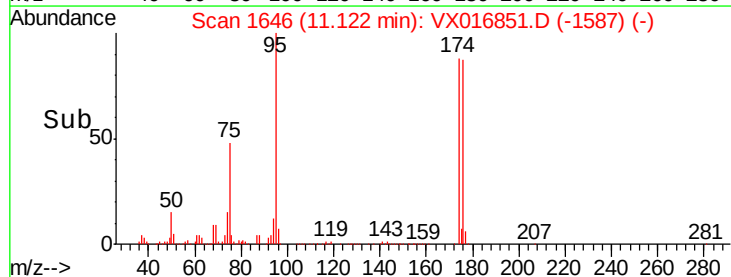
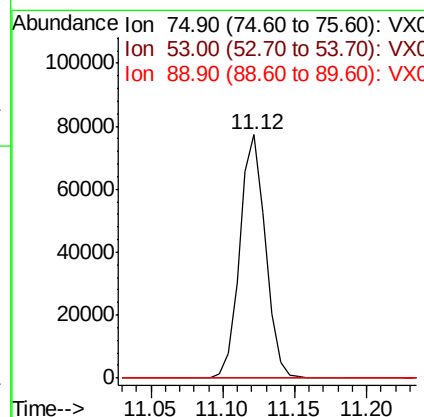
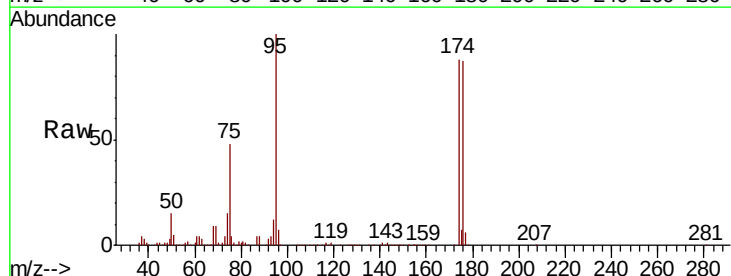
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-01_061520

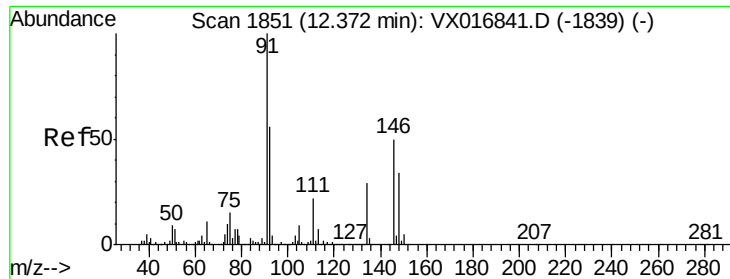
Tot Ion:105 Resp: 640
 Ion Ratio Lower Upper
 105 100
 120 45.5 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.742 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016851.D
 Acq: 18 Jun 2020 20:53

Tgt Ion: 75 Resp: 95912
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.8 104.8#
 89 0.1 38.3 57.5#

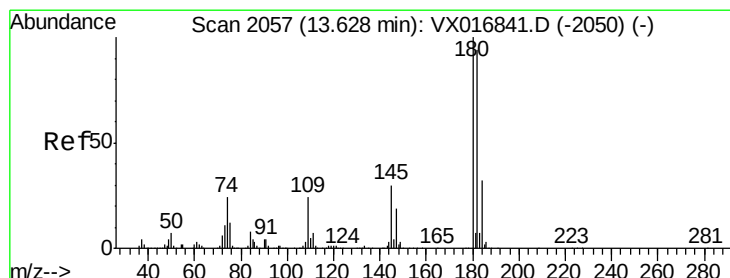
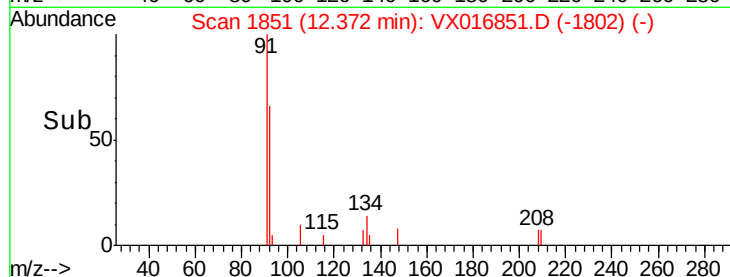
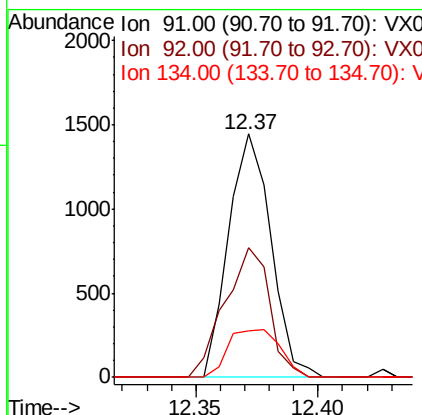
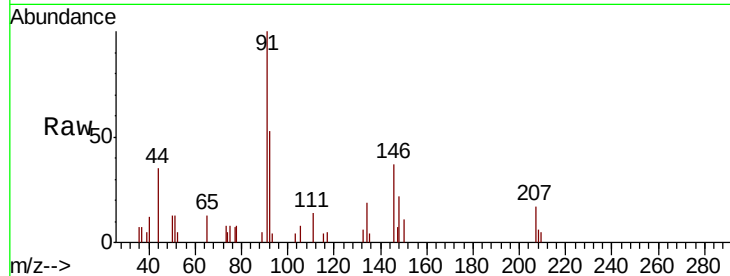




#89
n-Butylbenzene
Concen: 3.149 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX016851.D
Acq: 18 Jun 2020 20:53

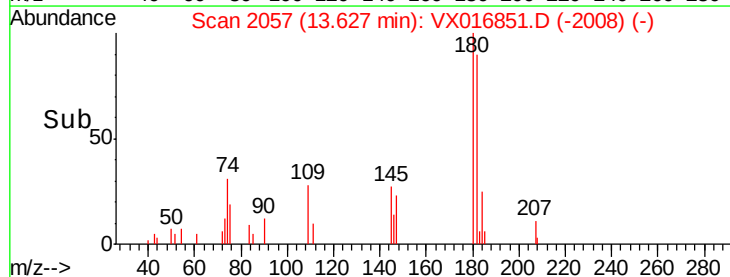
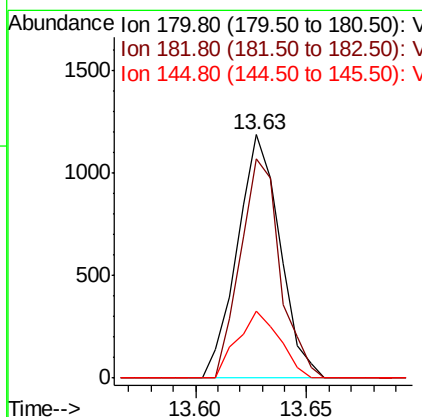
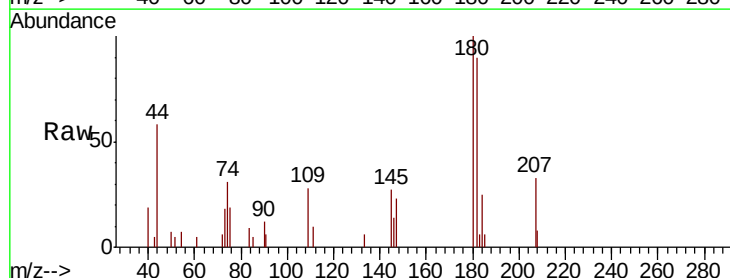
Instrument :
MSVOA_X
ClientSampleId :
TB-01_061520

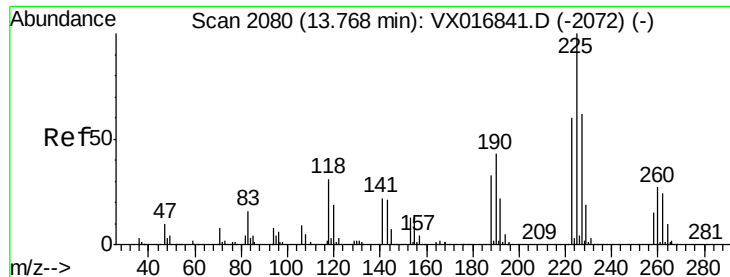
Tot Ion: 91 Resp: 1738
Ion Ratio Lower Upper
91 100
92 56.3 27.4 82.2
134 24.3 13.9 41.6



#93
1,2,4-Trichlorobenzene
Concen: 0.354 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. 0.00 min
Lab File: VX016851.D
Acq: 18 Jun 2020 20:53

Tgt Ion: 180 Resp: 1584
Ion Ratio Lower Upper
180 100
182 84.2 47.7 143.1
145 27.0 15.0 45.1





#94

Hexachlorobutadiene

Concen: 0.303 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

Instrument :

MSVOA_X

ClientSampleId :

TB-01_061520

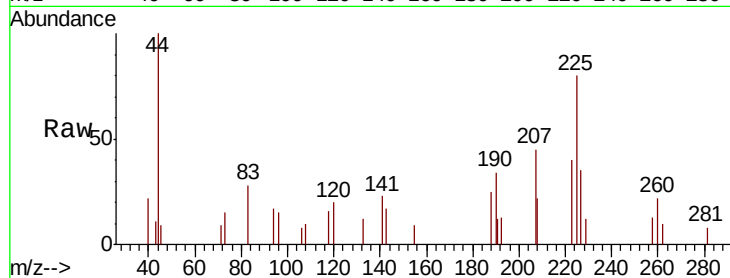
Tot Ion:225 Resp: 612

Ion Ratio Lower Upper

225 100

223 49.8 32.1 96.5

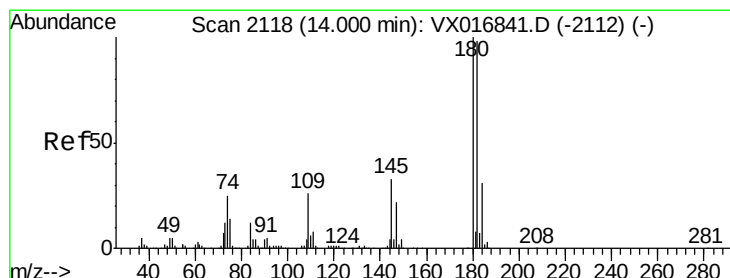
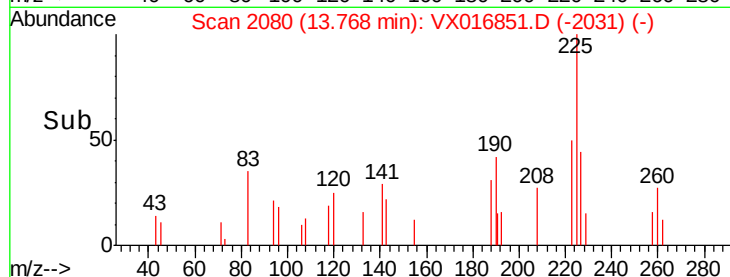
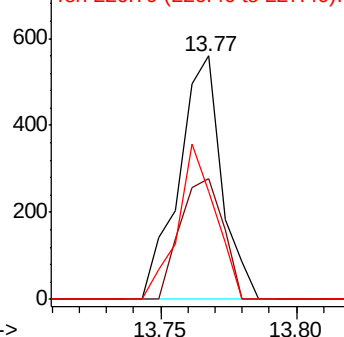
227 55.7 32.3 96.8



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



#96

1,2,3-Trichlorobenzene

Concen: 0.229 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VX016851.D

Acq: 18 Jun 2020 20:53

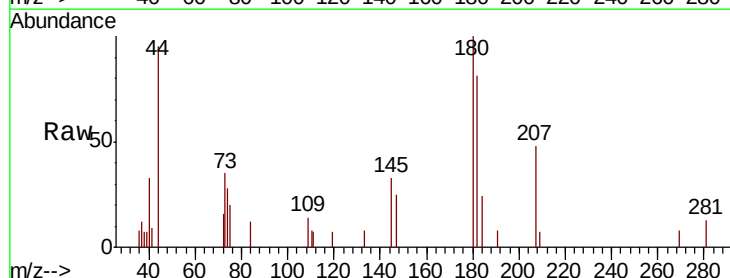
Tgt Ion:180 Resp: 1023

Ion Ratio Lower Upper

180 100

182 90.8 47.4 142.3

145 33.3 16.0 48.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

