

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019803.D
 Acq On : 10 Dec 2020 02:15
 Operator : JC/MD
 Sample : L4993-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-FD01-120720

Quant Time: Dec 10 06:45:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	324233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	534395	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	483070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	209124	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	202175	47.44	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.88%	
35) Dibromofluoromethane		5.46	113	163699	47.40	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.80%	
50) Toluene-d8		8.70	98	637432	48.34	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	96.68%	
62) 4-Bromofluorobenzene		11.12	95	222760	44.39	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	88.78%	

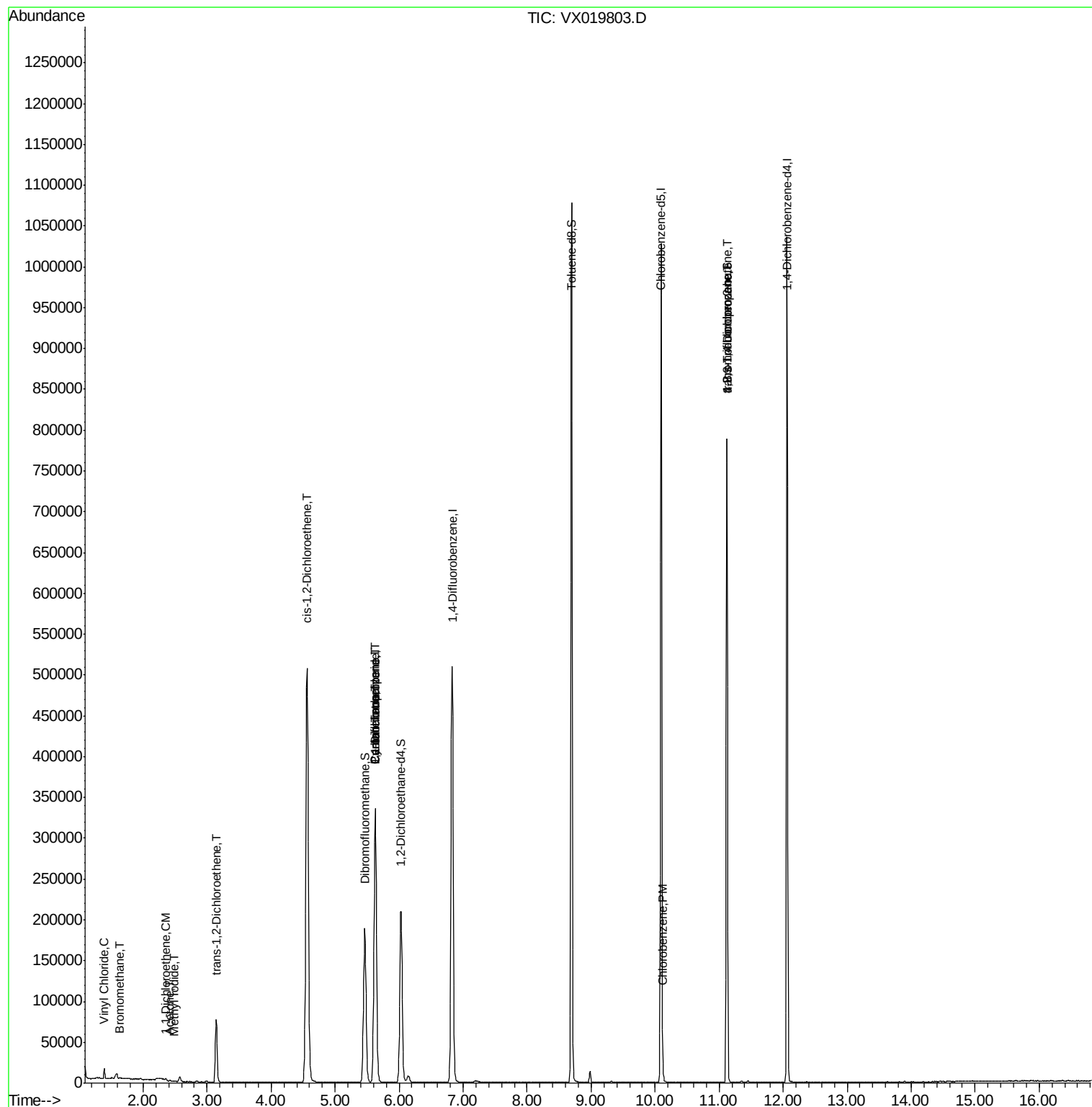
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	6655	1.808	ug/l	100
5) Bromomethane	1.63	94	870	0.712	ug/l	100
10) Methyl Iodide	2.50	142	920	0.212	ug/l #	93
11) Tert butyl alcohol	3.00	59	931	Below Cal	#	73
12) 1,1-Dichloroethene	2.36	96	1061	0.357	ug/l #	75
16) Acetone	2.42	43	1084	0.677	ug/l	100
20) Methylene Chloride	2.84	84	437	Below Cal		94
21) trans-1,2-Dichloroethene	3.14	96	32348	9.340	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	338093	83.417	ug/l	89
31) Cyclohexane	5.63	56	6071	1.145	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	24401	5.053	ug/l #	48
38) Carbon Tetrachloride	5.62	117	31961	6.759	ug/l #	17
65) Chlorobenzene	10.12	112	4387	0.456	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	107693	22.961	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107693	66.376	ug/l #	12

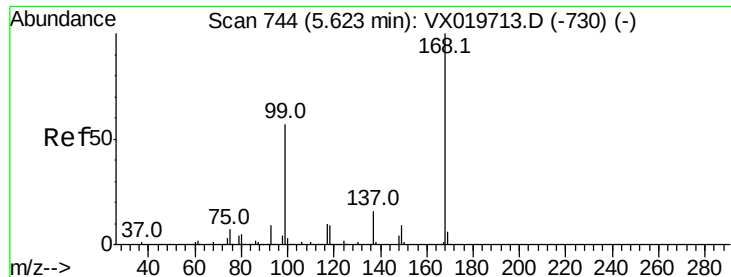
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

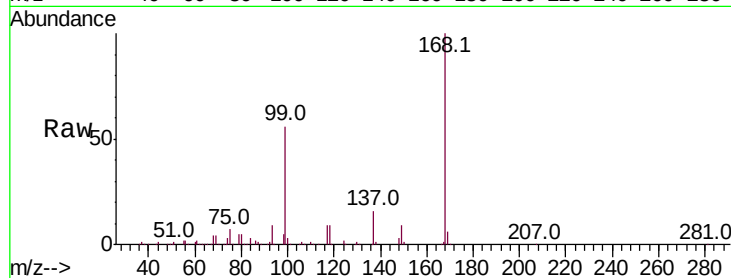
TU032-32-FD01-120720

Tot Ion:168 Resp: 324233

Ion Ratio Lower Upper

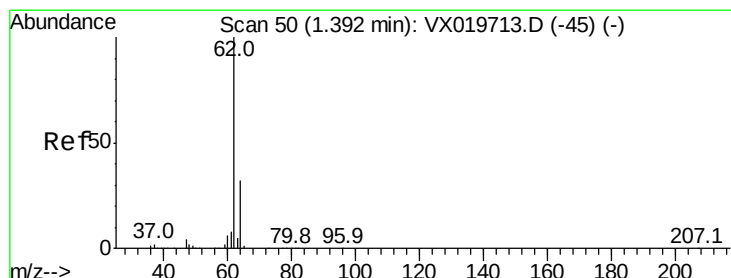
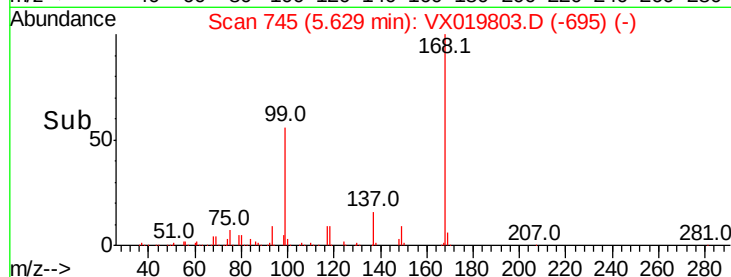
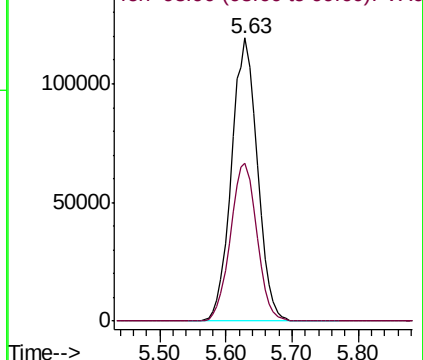
168 100

99 55.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.808 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019803.D

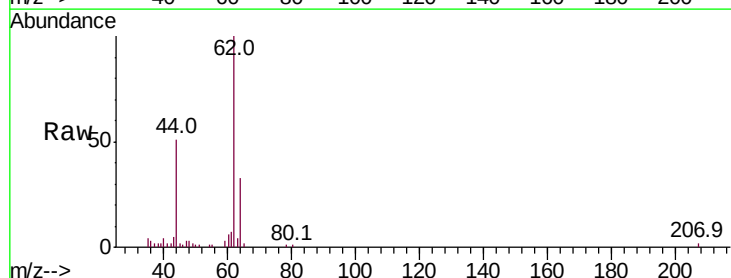
Acq: 10 Dec 2020 02:15

Tgt Ion: 62 Resp: 6655

Ion Ratio Lower Upper

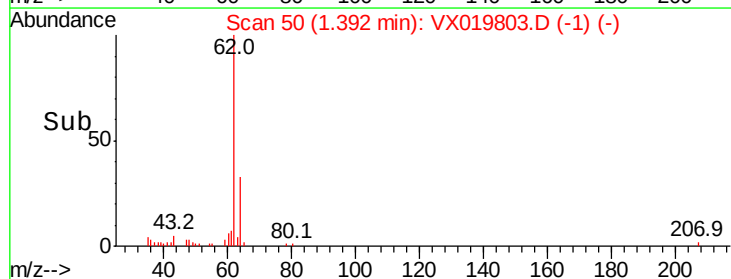
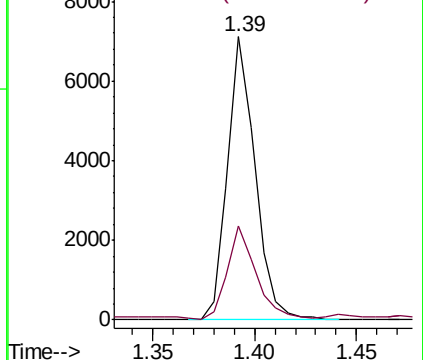
62 100

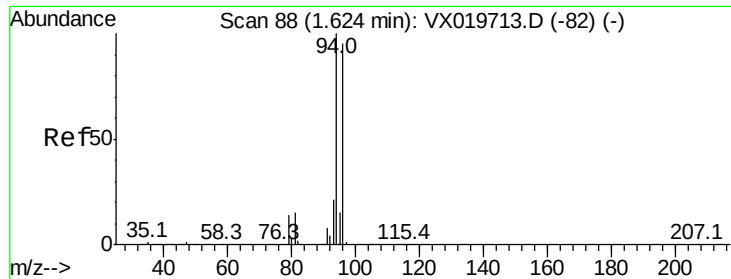
64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.712 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

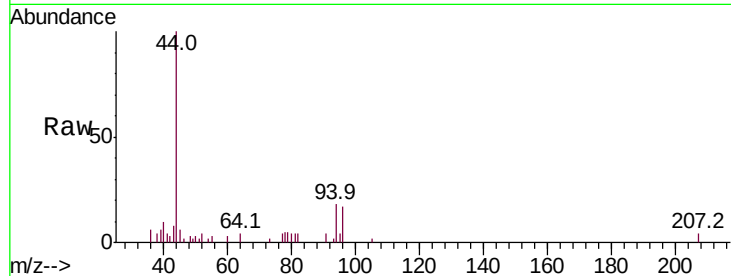
TU032-32-FD01-120720

Tot Ion: 94 Resp: 870

Ion Ratio Lower Upper

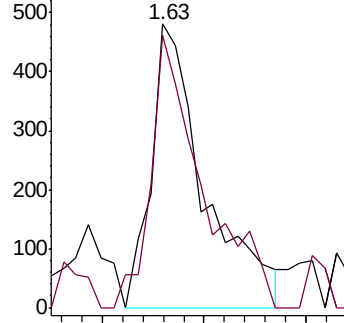
94 100

96 95.8 76.4 114.6

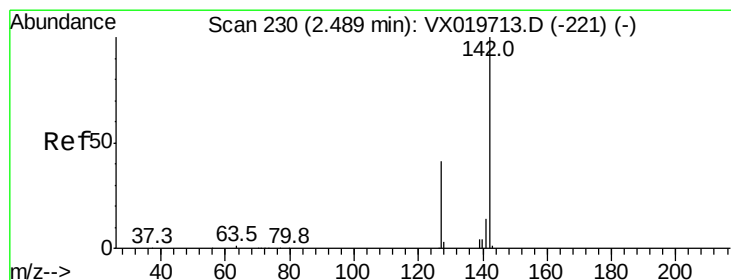
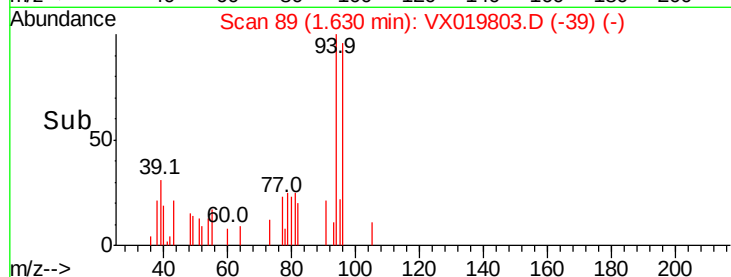


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 0.212 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

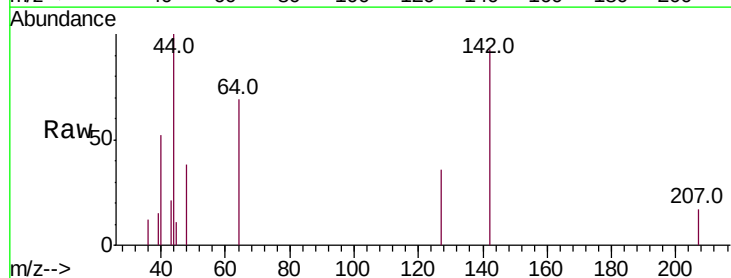
Tgt Ion: 142 Resp: 920

Ion Ratio Lower Upper

142 100

127 40.5 33.3 49.9

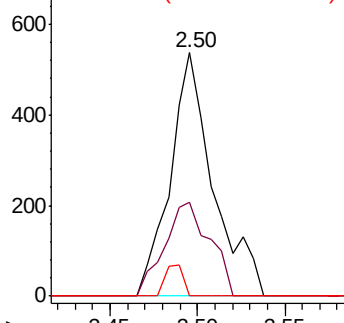
141 5.4 11.4 17.0#



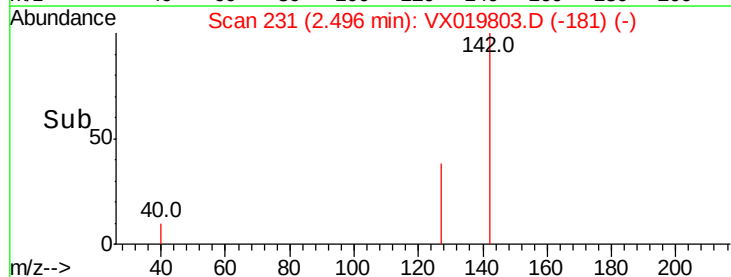
Abundance Ion 141.80 (141.50 to 142.50): V

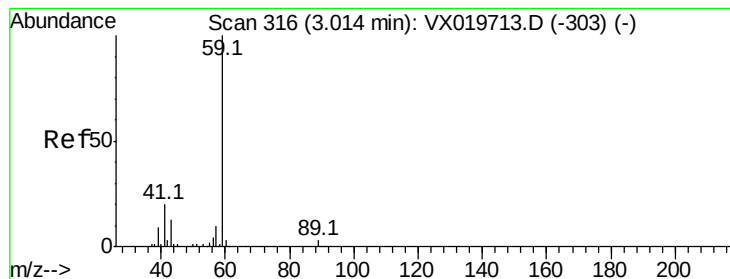
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



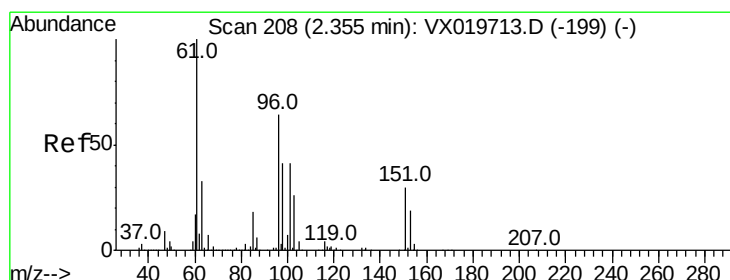
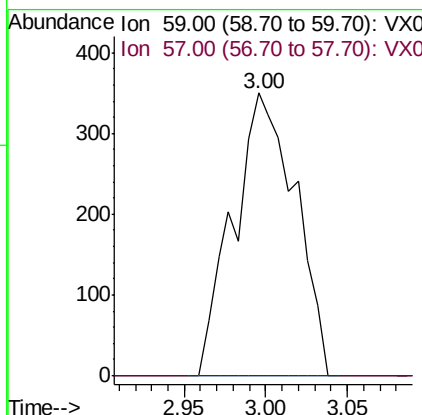
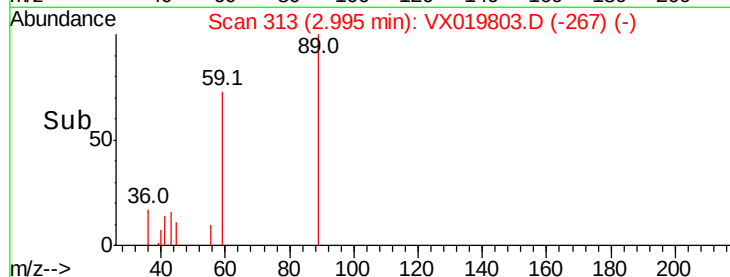
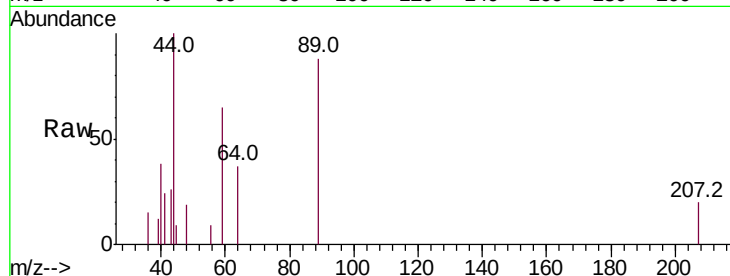


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019803.D
Acq: 10 Dec 2020 02:15

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-FD01-120720

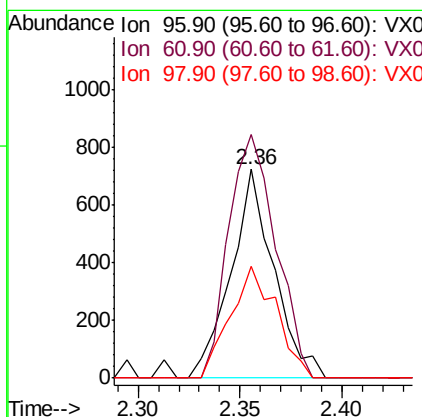
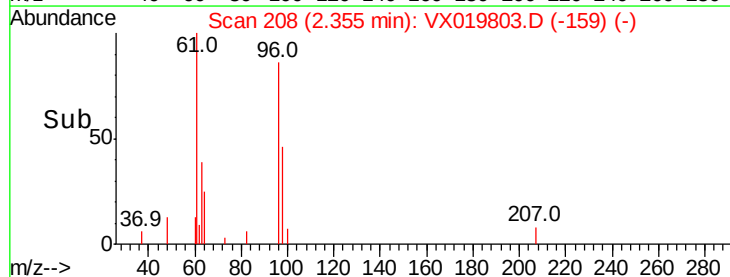
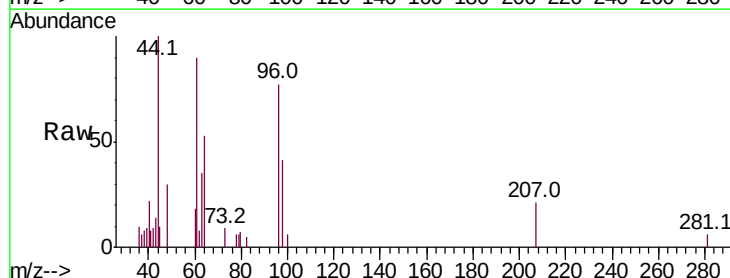
Tot Ion: 59 Resp: 931
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

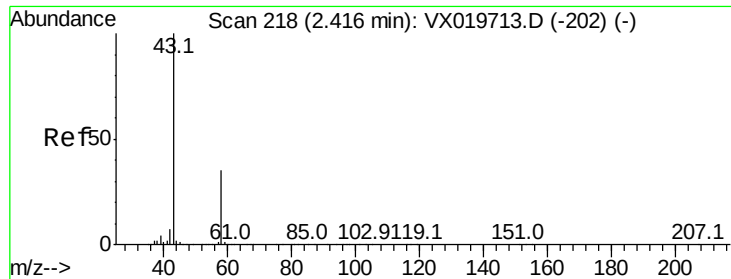


#12

1,1-Dichloroethene
Concen: 0.357 ug/l
RT: 2.36 min Scan# 208
Delta R.T. 0.00 min
Lab File: VX019803.D
Acq: 10 Dec 2020 02:15

Tgt Ion: 96 Resp: 1061
Ion Ratio Lower Upper
96 100
61 116.7 124.6 187.0#
98 53.6 50.6 76.0





#16

Acetone

Concen: 0.677 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

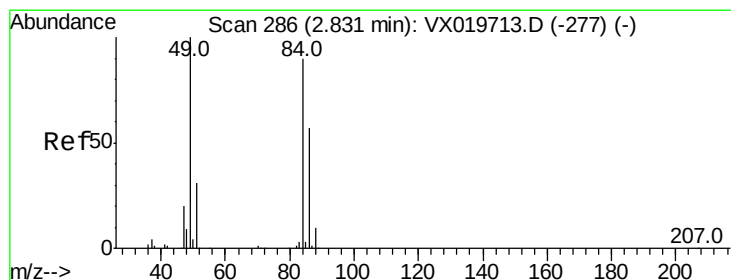
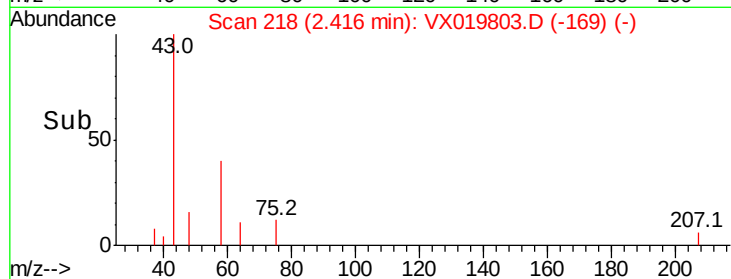
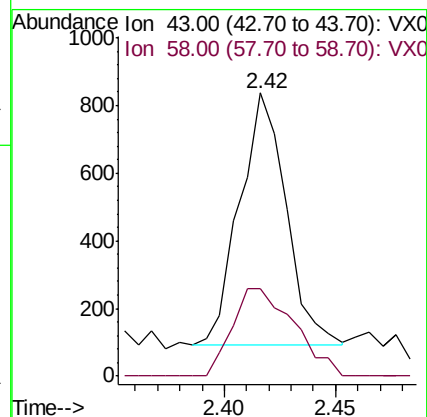
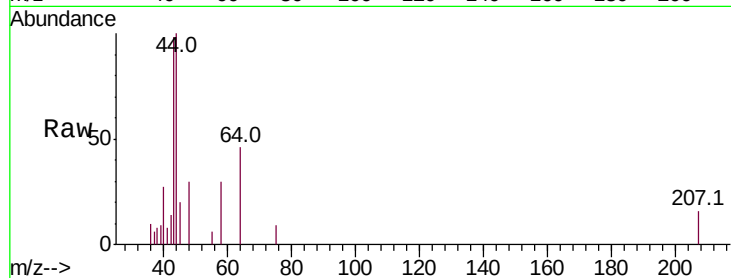
TU032-32-FD01-120720

Tot Ion: 43 Resp: 1084

Ion Ratio Lower Upper

43 100

58 34.8 27.8 41.8



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Tgt Ion: 84 Resp: 437

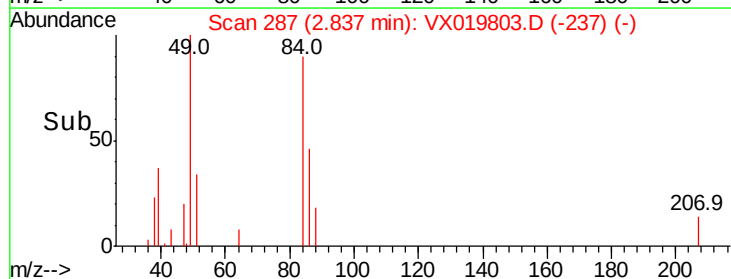
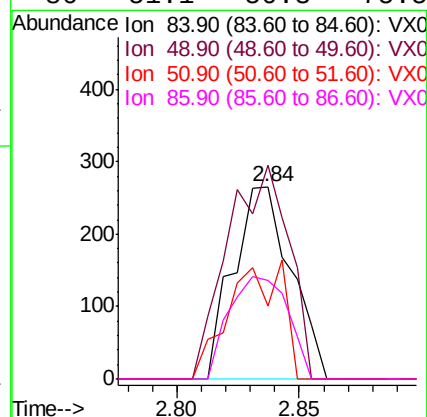
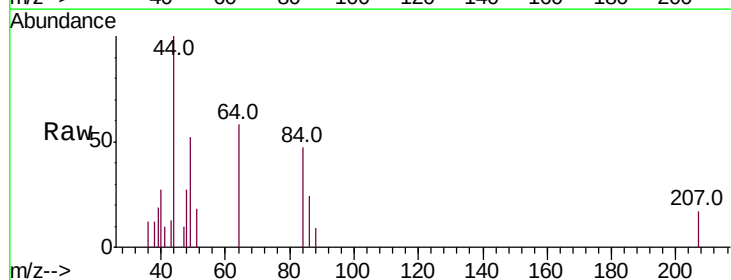
Ion Ratio Lower Upper

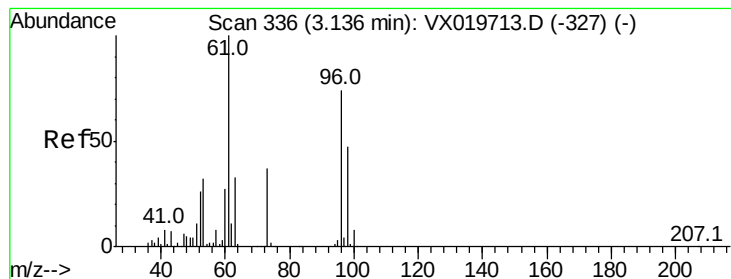
84 100

49 110.9 88.6 132.8

51 38.0 27.0 40.6

86 51.1 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 9.340 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-FD01-120720

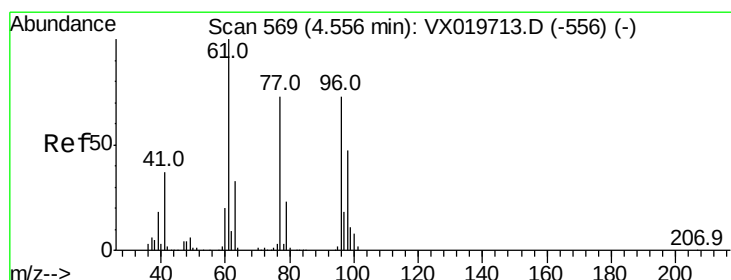
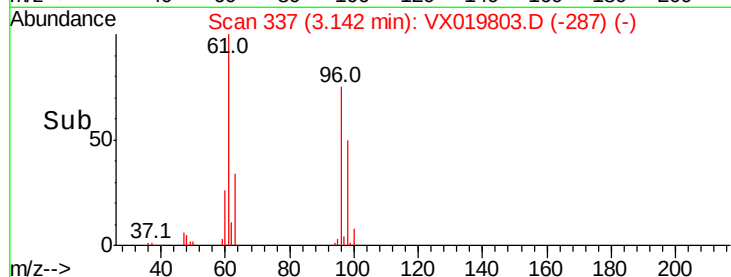
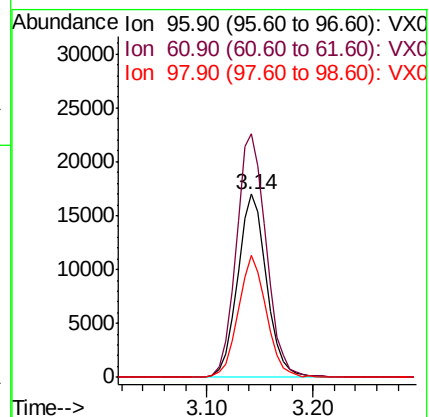
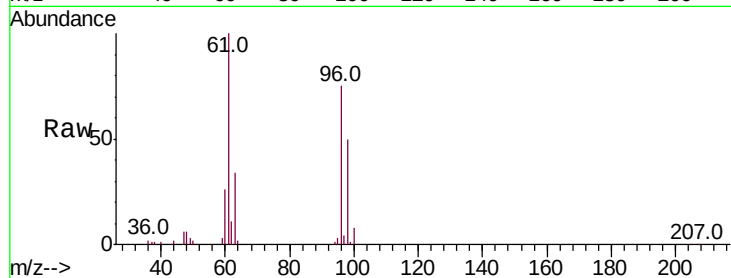
Tot Ion: 96 Resp: 32348

Ion Ratio Lower Upper

96 100

61 133.0 107.7 161.5

98 66.5 50.4 75.6



#27

cis-1,2-Dichloroethene

Concen: 83.417 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

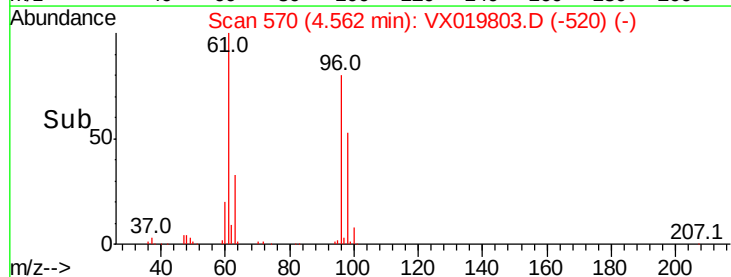
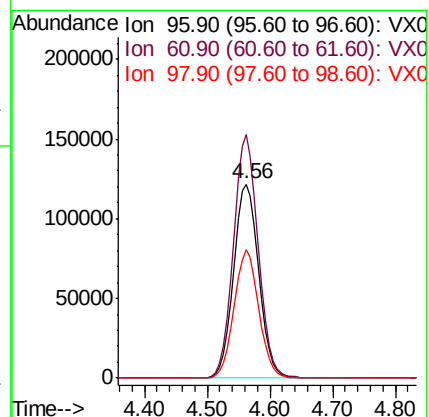
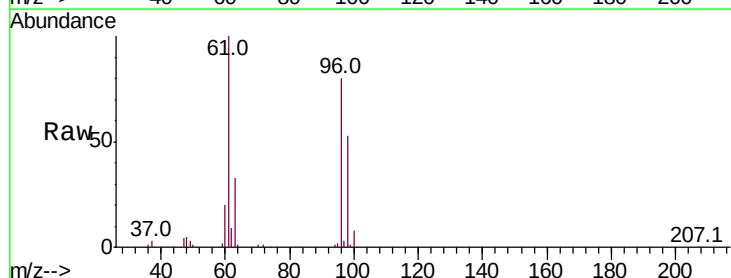
Tgt Ion: 96 Resp: 338093

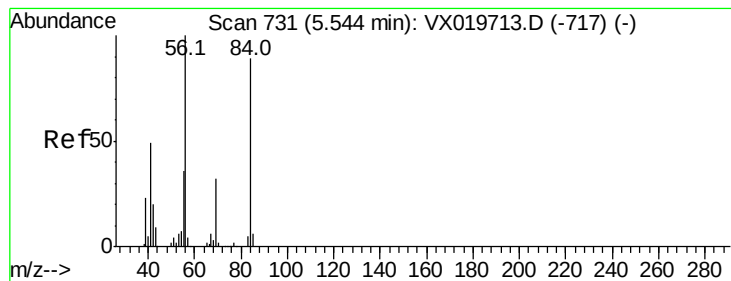
Ion Ratio Lower Upper

96 100

61 123.0 0.0 285.6

98 64.6 0.0 129.6





#31

Cyclohexane

Concen: 1.145 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

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ClientSampleId :

TU032-32-FD01-120720

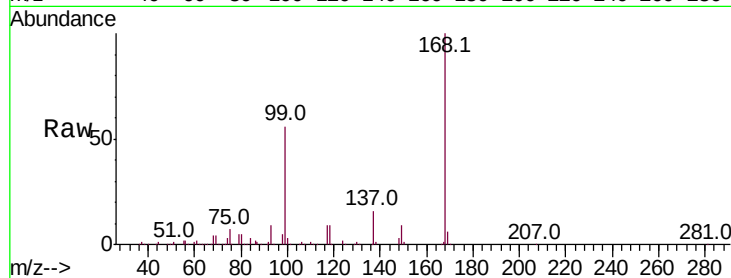
Tot Ion: 56 Resp: 6071

Ion Ratio Lower Upper

56 100

69 196.1 25.3 37.9#

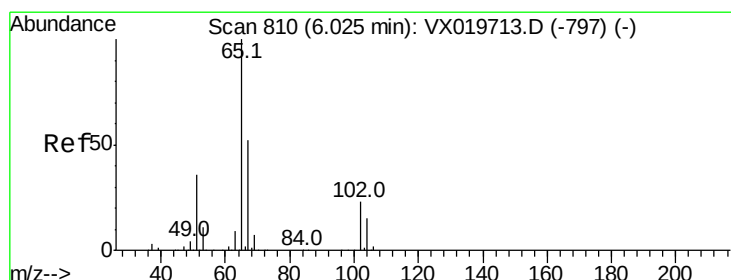
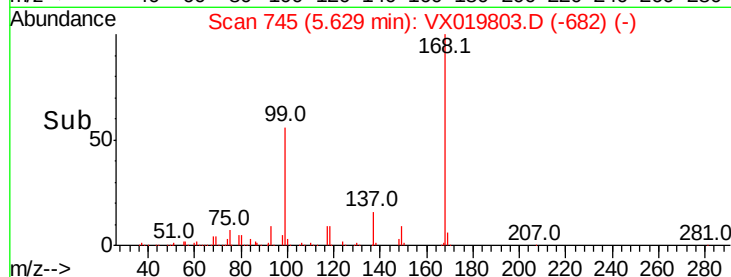
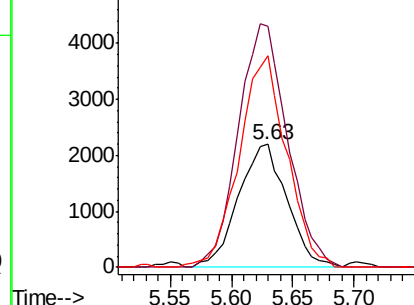
84 171.7 71.4 107.0#



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: 47.444 ug/l

RT: 6.03 min Scan# 810

Delta R.T. 0.00 min

Lab File: VX019803.D

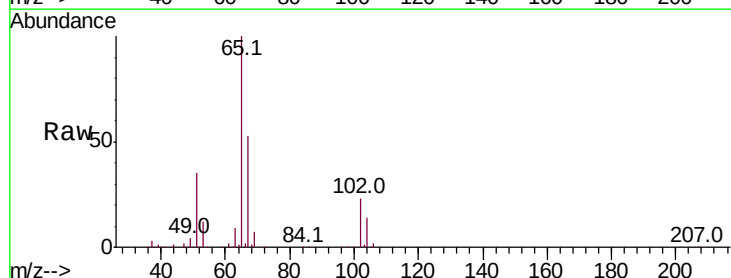
Acq: 10 Dec 2020 02:15

Tgt Ion: 65 Resp: 202175

Ion Ratio Lower Upper

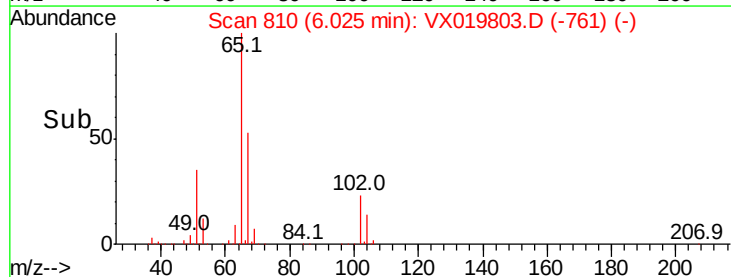
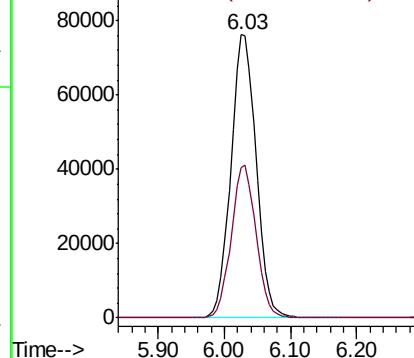
65 100

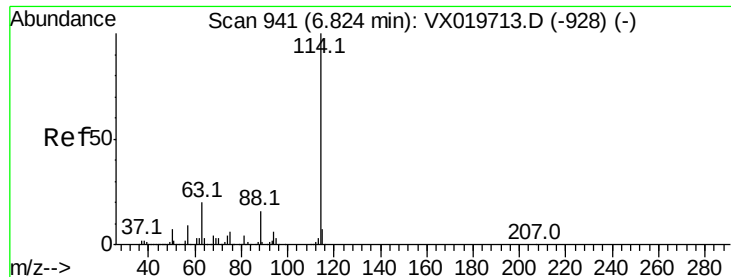
67 52.9 0.0 105.4



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: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-FD01-120720

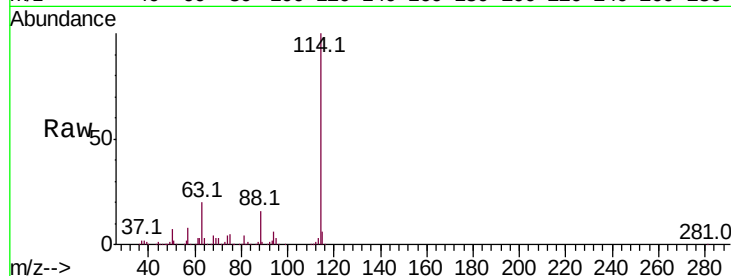
Tot Ion:114 Resp: 534395

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

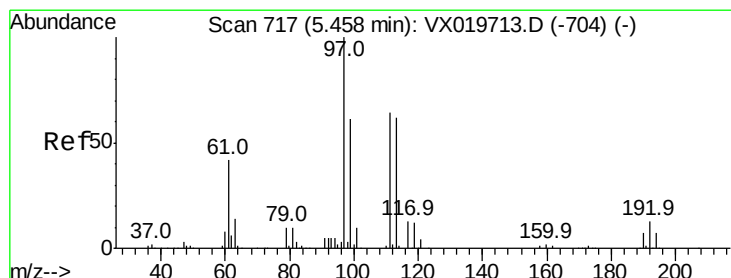
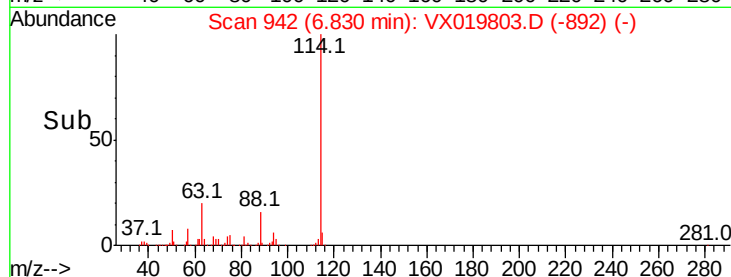
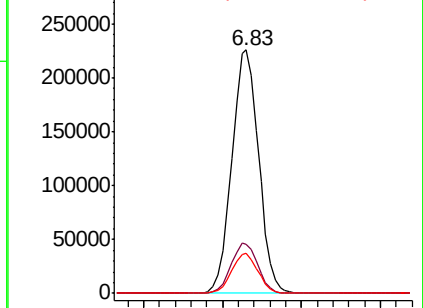
88 16.2 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.398 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

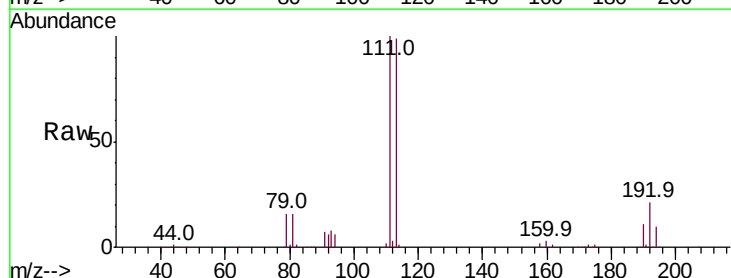
Tgt Ion:113 Resp: 163699

Ion Ratio Lower Upper

113 100

111 102.5 81.9 122.9

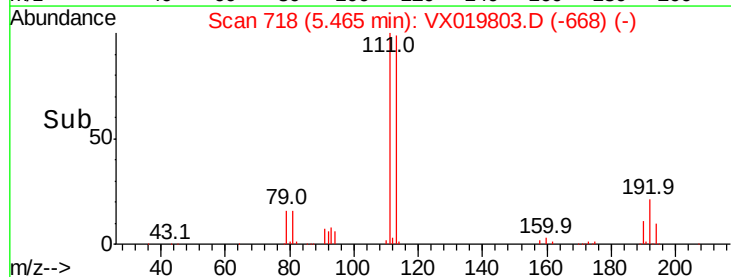
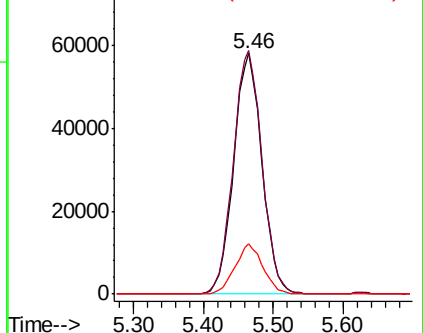
192 20.5 16.7 25.1

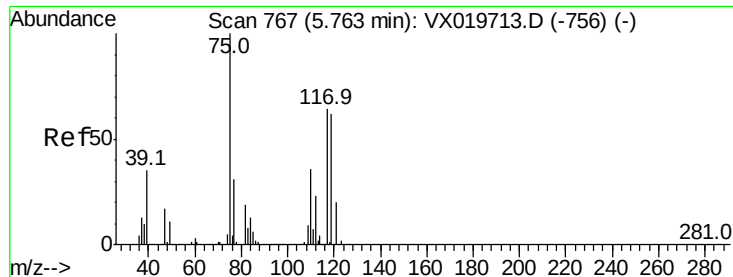


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.053 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-FD01-120720

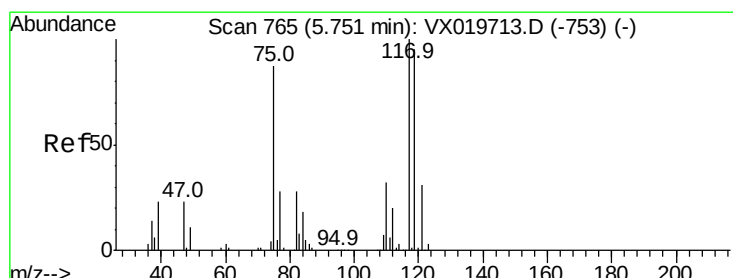
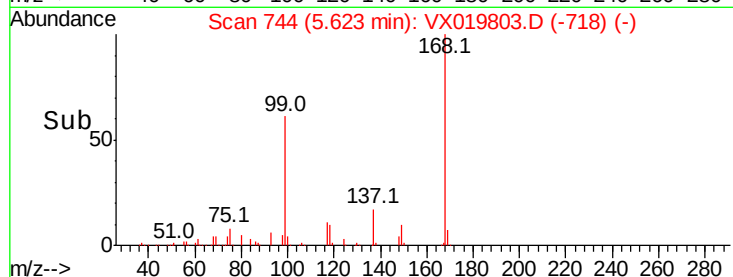
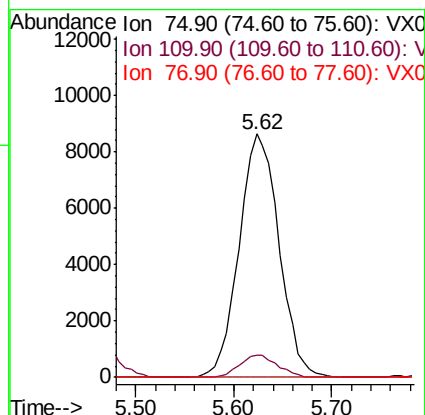
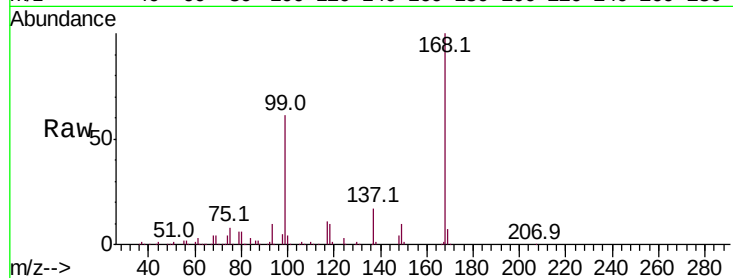
Tot Ion: 75 Resp: 24401

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.759 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

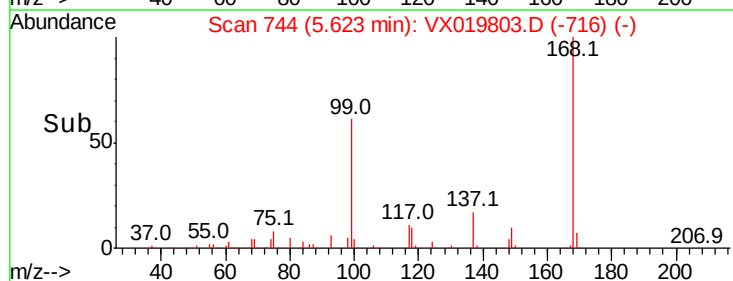
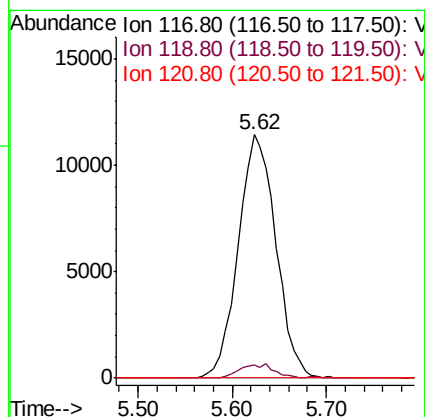
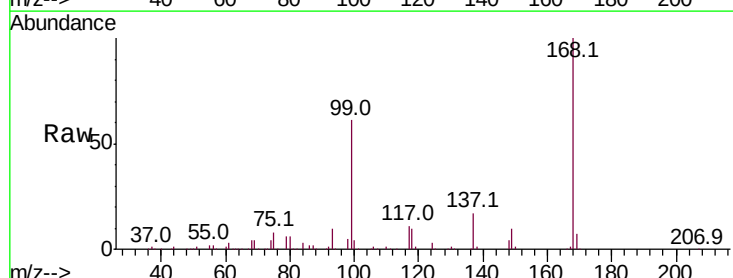
Tgt Ion: 117 Resp: 31961

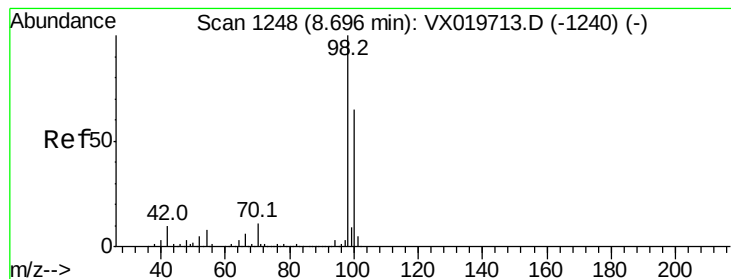
Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 48.344 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

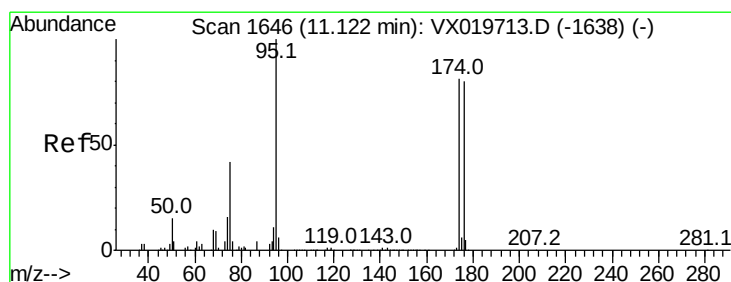
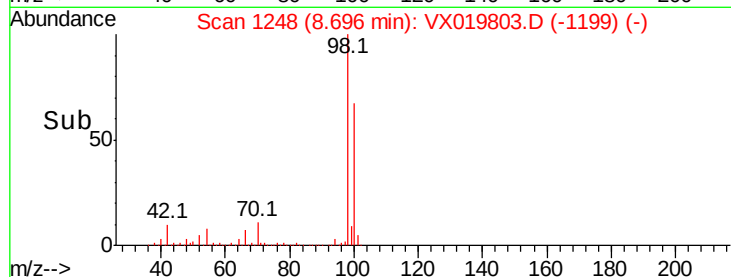
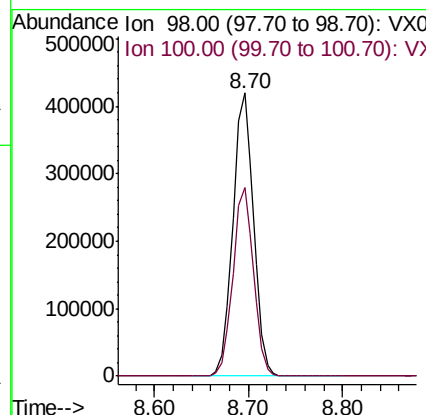
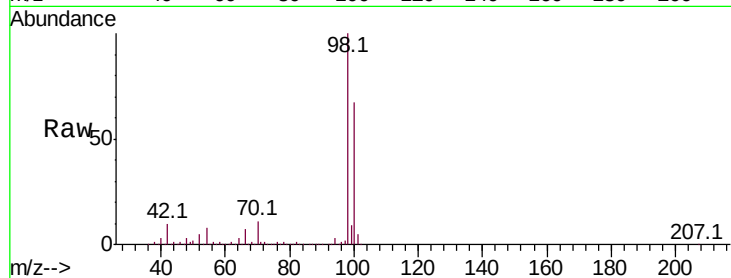
TU032-32-FD01-120720

Tot Ion: 98 Resp: 637432

Ion Ratio Lower Upper

98 100

100 66.6 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 44.387 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

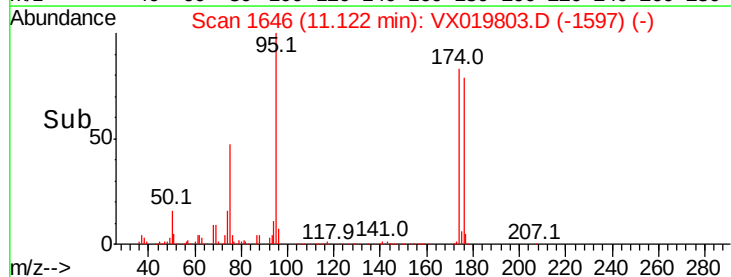
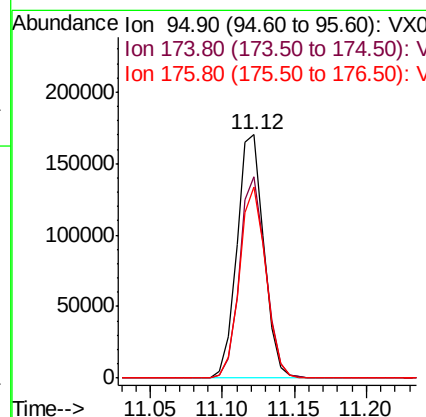
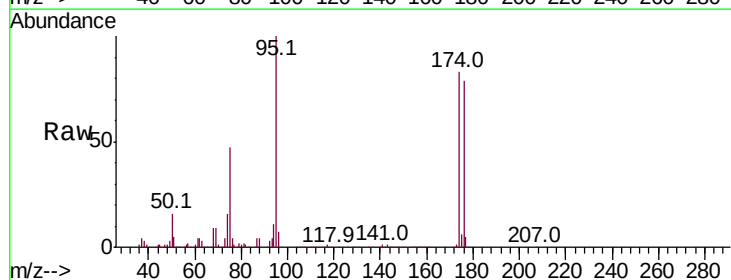
Tgt Ion: 95 Resp: 222760

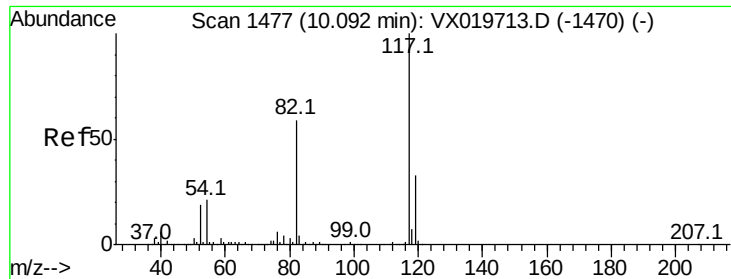
Ion Ratio Lower Upper

95 100

174 80.2 0.0 154.6

176 77.0 0.0 155.8

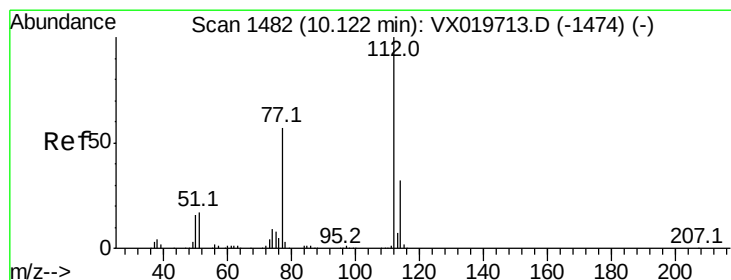
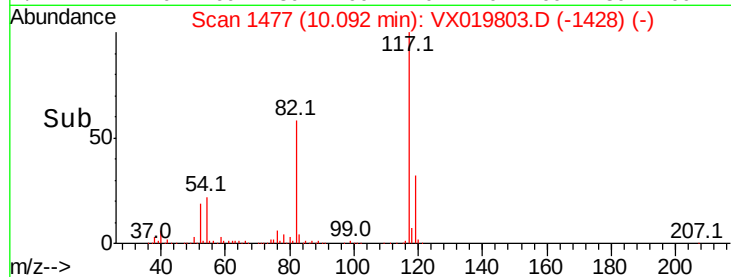
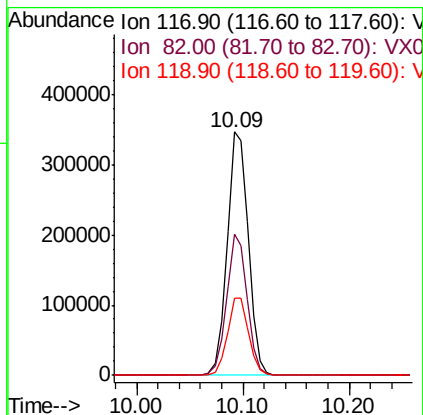
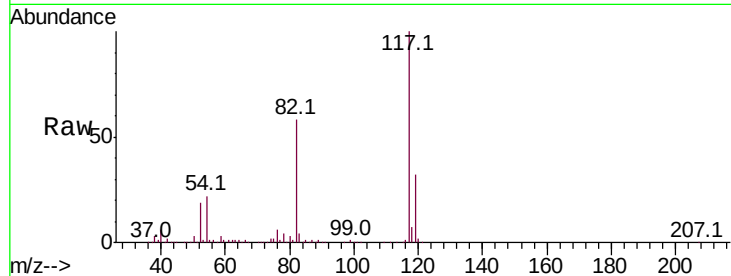




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019803.D
Acq: 10 Dec 2020 02:15

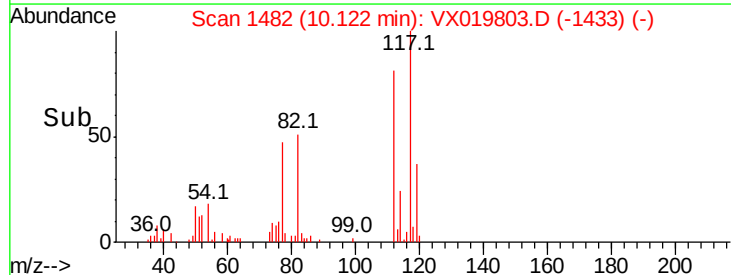
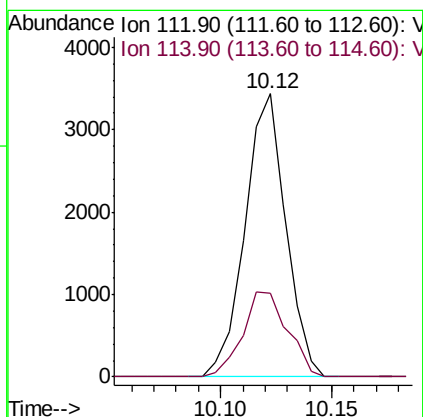
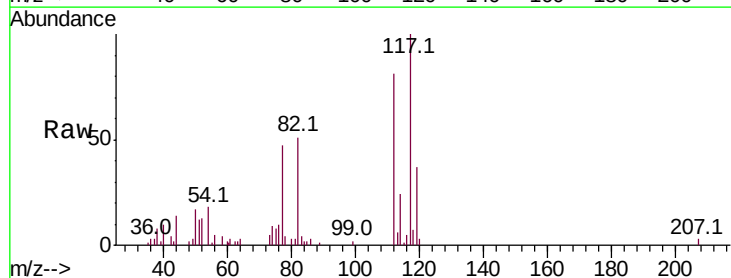
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-FD01-120720

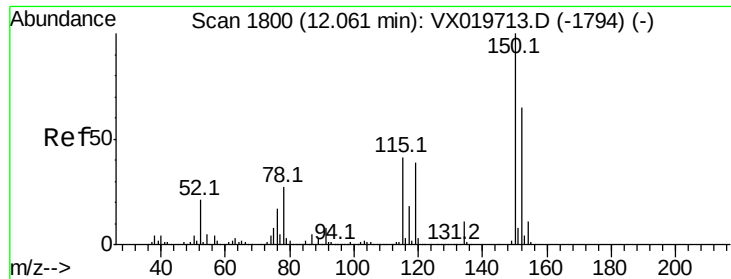
Tot Ion:117 Resp: 483070
Ion Ratio Lower Upper
117 100
82 58.1 47.4 71.2
119 31.5 26.6 39.8



#65
Chlorobenzene
Concen: 0.456 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019803.D
Acq: 10 Dec 2020 02:15

Tgt Ion:112 Resp: 4387
Ion Ratio Lower Upper
112 100
114 29.7 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019803.D

Acq: 10 Dec 2020 02:15

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-FD01-120720

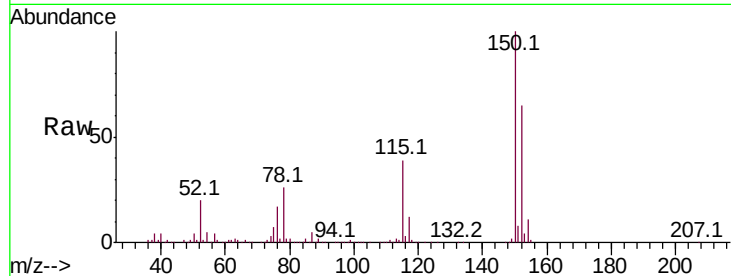
Tot Ion:152 Resp: 209124

Ion Ratio Lower Upper

152 100

115 60.0 41.1 123.3

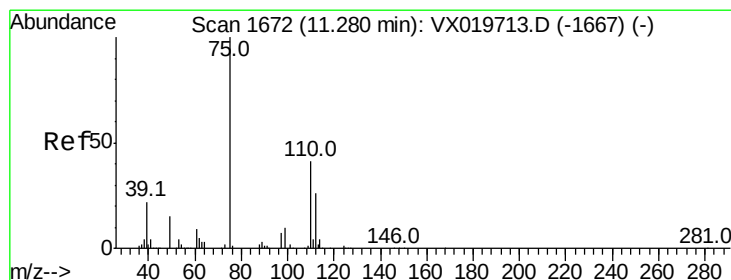
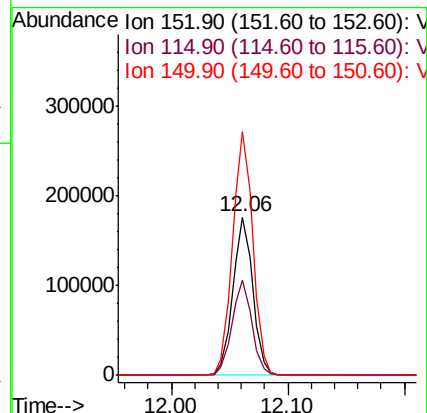
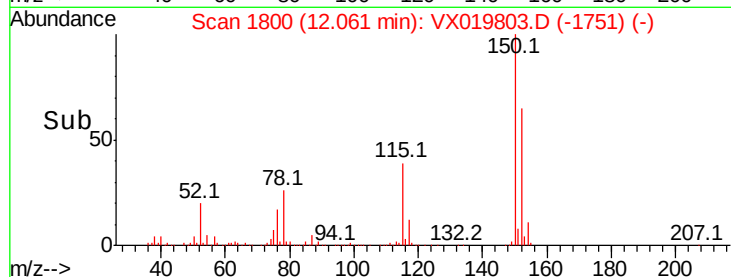
150 156.7 0.0 349.0



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: 22.961 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019803.D

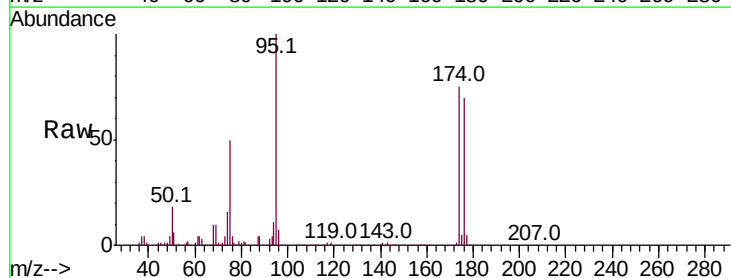
Acq: 10 Dec 2020 02:15

Tgt Ion: 75 Resp: 107693

Ion Ratio Lower Upper

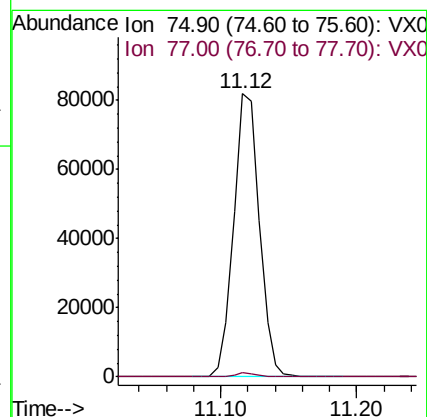
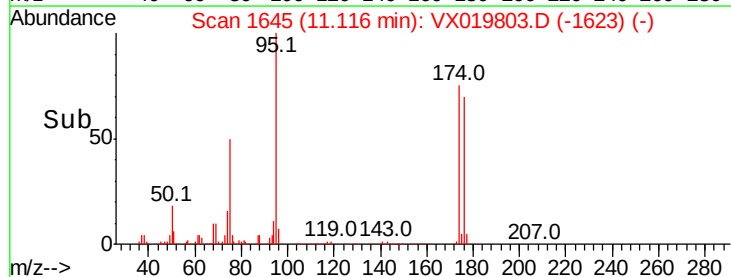
75 100

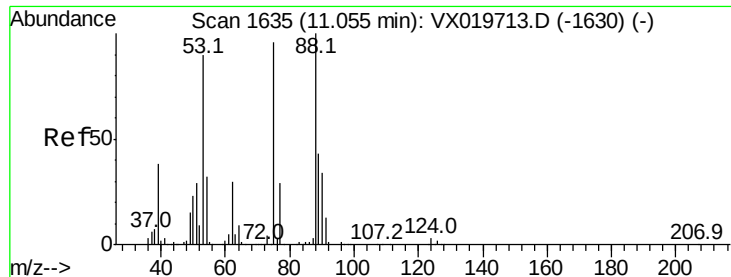
77 1.3 19.1 57.5#



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: 66.376 ug/l
 RT: 11.12 min Scan# 1645
 Delta R.T. 0.06 min
 Lab File: VX019803.D
 Acq: 10 Dec 2020 02:15

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-FD01-120720

Tot Ion: 75 Resp: 107693
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

