

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017553.D
 Acq On : 24 Jul 2020 19:10
 Operator : JC/SP
 Sample : L3379-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ETGI-361

Quant Time: Jul 25 01:53:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	453144	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	780972	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	802348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	439465	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	317107	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	
35) Dibromofluoromethane	5.47	113	254304	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	8.70	98	949906	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.12	95	408249	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	

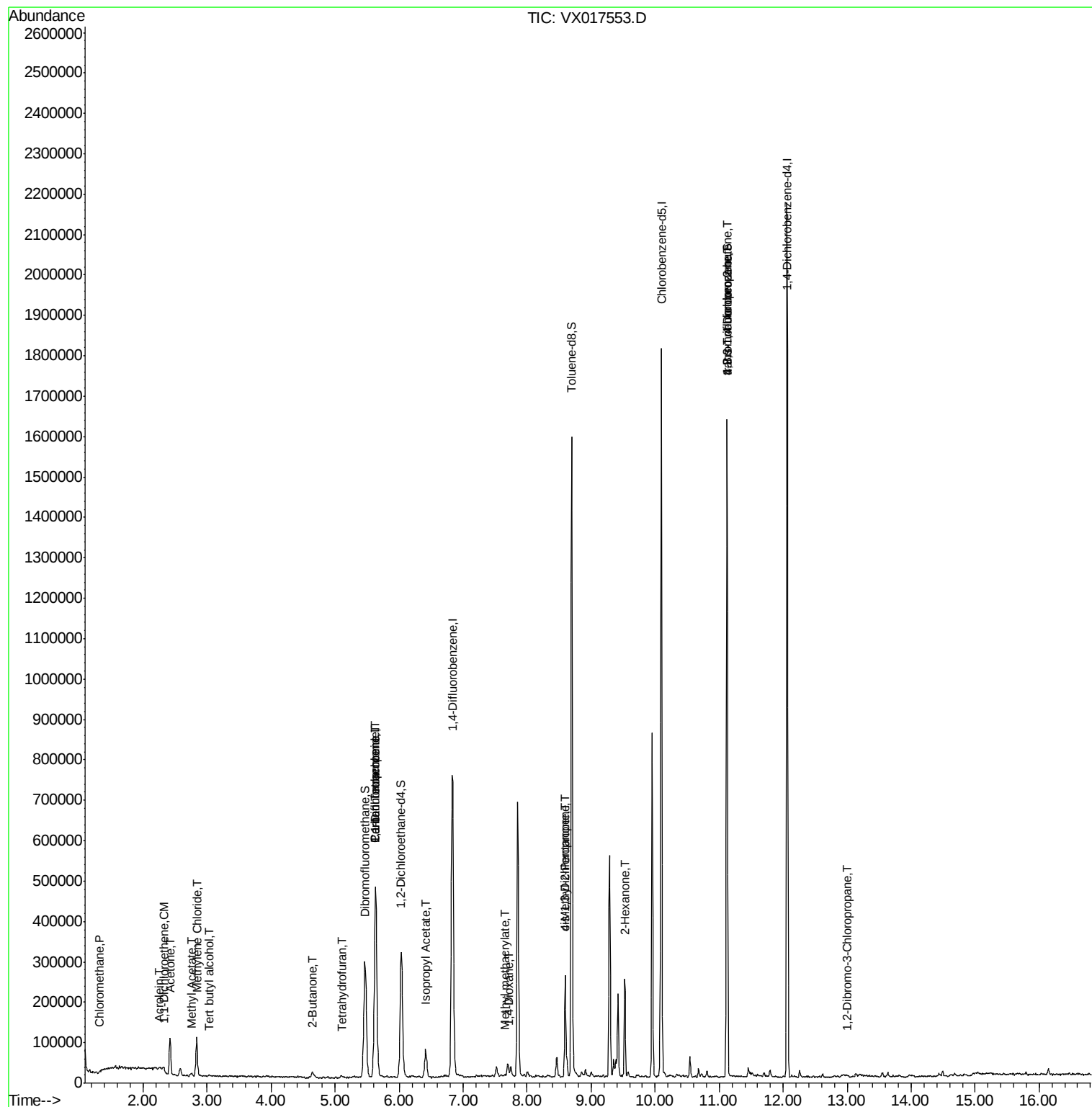
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	316	Below Cal	#	42
3) Chloromethane	1.32	50	770	0.503	ug/l #	75
5) Bromomethane	1.62	94	367	Below Cal	#	52
6) Chloroethane	1.72	64	528	Below Cal	#	44
8) Diethyl Ether	2.23	74	459	Below Cal		99
11) Tert butyl alcohol	3.02	59	2447	1.995	ug/l #	90
12) 1,1-Dichloroethene	2.33	96	1171	0.250	ug/l #	1
13) Acrolein	2.26	56	569	4.746	ug/l #	1
16) Acetone	2.42	43	98437	38.423	ug/l	98
18) Methyl Acetate	2.75	43	8442	1.399	ug/l	95
20) Methylene Chloride	2.84	84	43153	7.861	ug/l #	90
25) 2-Butanone	4.64	43	18514	5.087	ug/l	95
29) Tetrahydrofuran	5.10	42	3553	1.576	ug/l #	44
36) 1,1-Dichloropropene	5.63	75	32858	4.387	ug/l #	52
38) Carbon Tetrachloride	5.63	117	44386	4.880	ug/l #	19
43) Isopropyl Acetate	6.42	43	94680	7.002	ug/l	99
48) Methyl methacrylate	7.66	41	7145	1.066	ug/l #	17
49) 1,4-Dioxane	7.72	88	212	1.650	ug/l #	22
51) 4-Methyl-2-Pentanone	8.60	43	102082	12.653	ug/l #	56
54) cis-1,3-Dichloropropene	8.59	75	39316	4.068	ug/l #	62
59) 2-Hexanone	9.52	43	28733	4.730	ug/l #	54
76) 1,2,3-Trichloropropane	11.12	75	208443	23.058	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	208443	58.101	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	114	2.617	ug/l #	30

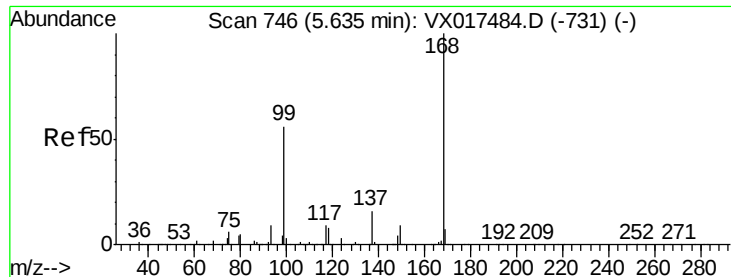
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 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: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

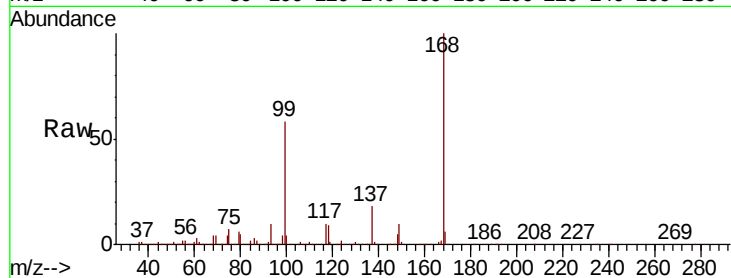
ETGI-361

Tot Ion:168 Resp: 453144

Ion Ratio Lower Upper

168 100

99 58.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

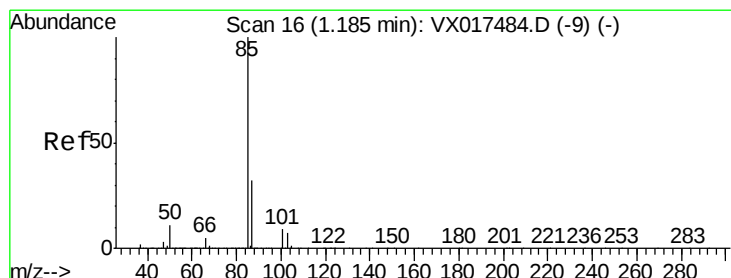
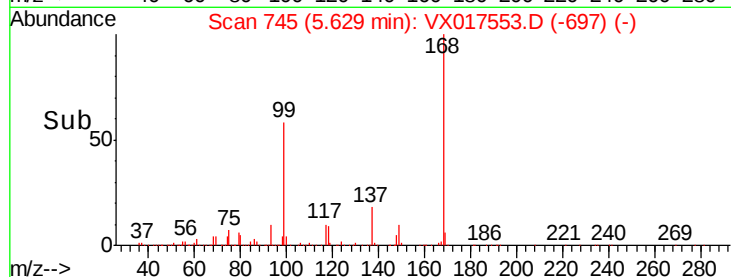
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017553.D

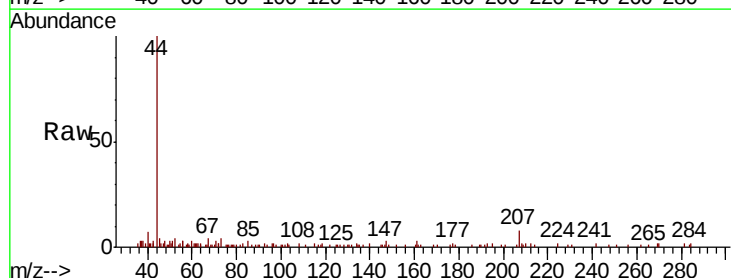
Acq: 24 Jul 2020 19:10

Tgt Ion: 85 Resp: 316

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

300

250

200

150

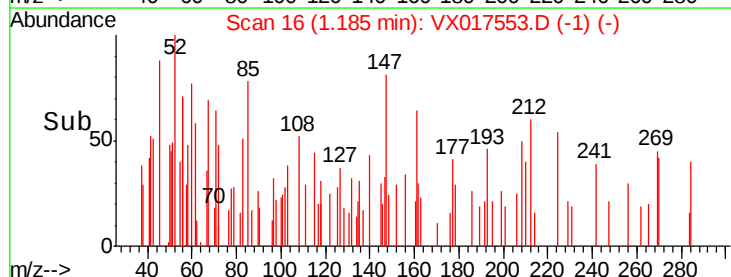
100

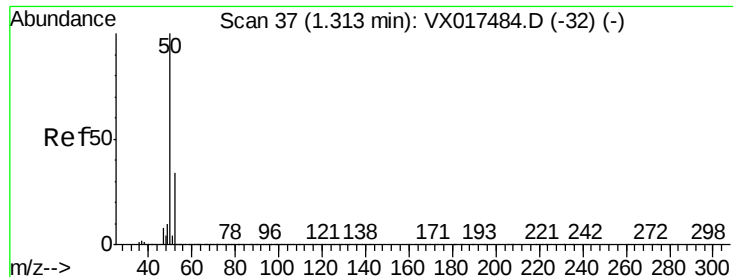
50

0

Time-->

1.14 1.16 1.18 1.20





#3

Chloromethane

Concen: 0.503 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampled :

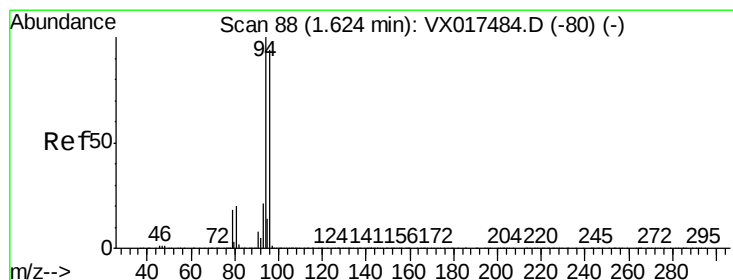
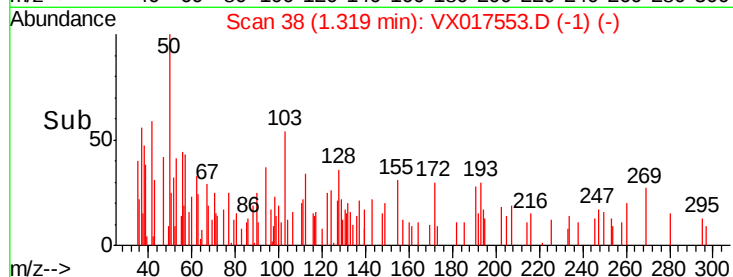
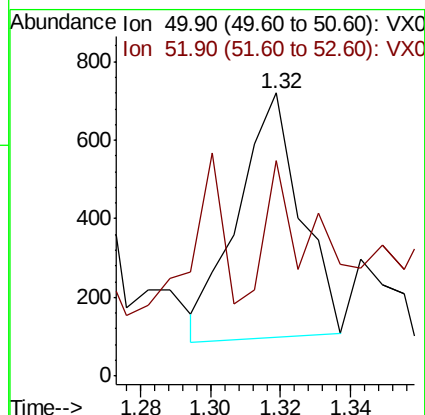
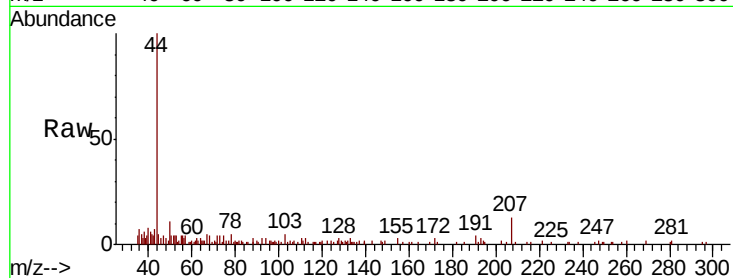
ETGI-361

Tot Ion: 50 Resp: 770

Ion Ratio Lower Upper

50 100

52 46.4 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017553.D

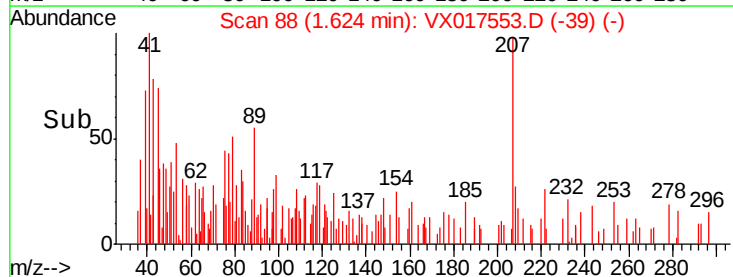
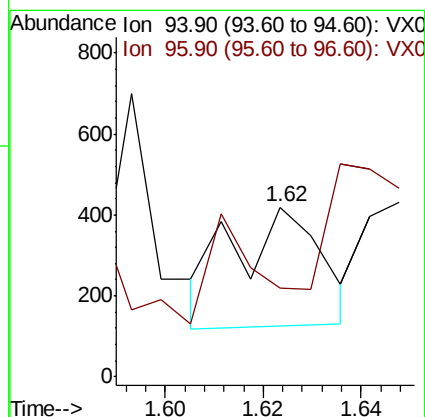
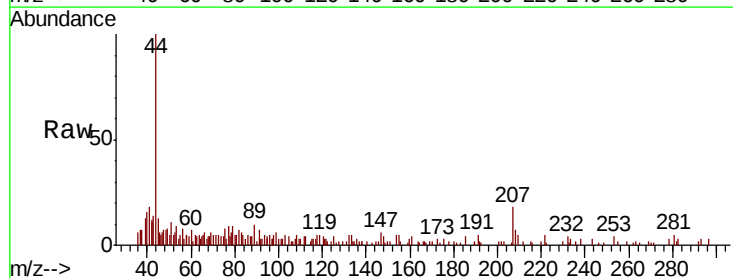
Acq: 24 Jul 2020 19:10

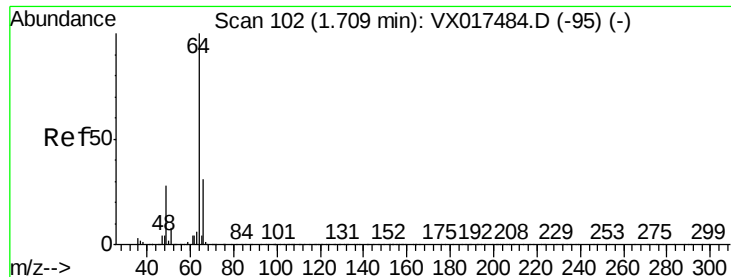
Tgt Ion: 94 Resp: 367

Ion Ratio Lower Upper

94 100

96 46.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

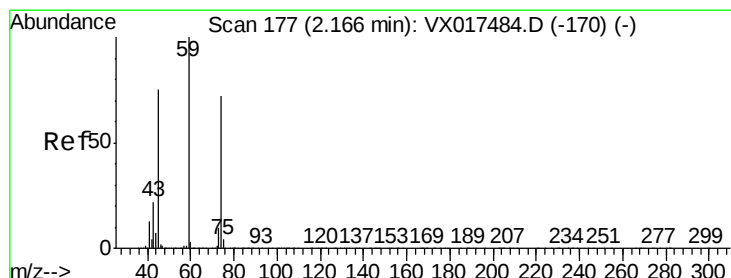
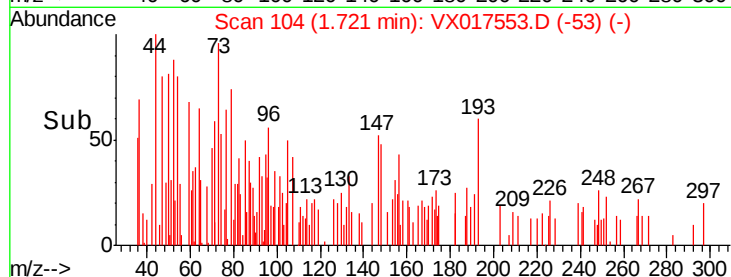
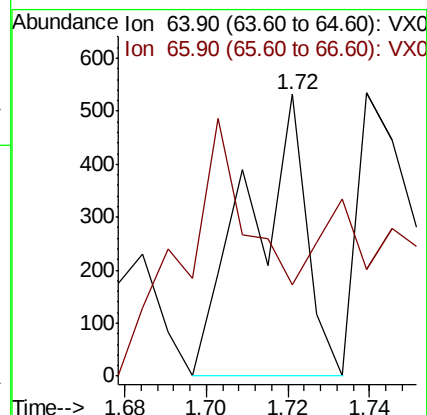
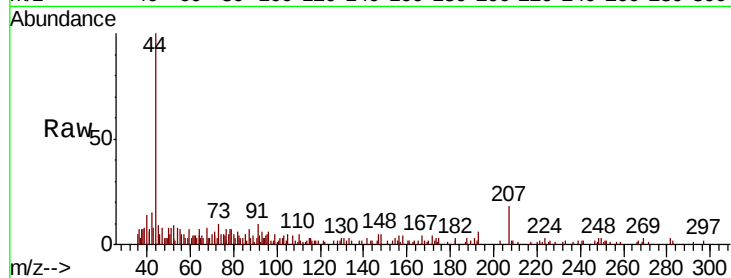
ETGI-361

Tot Ion: 64 Resp: 528

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 188

Delta R.T. 0.07 min

Lab File: VX017553.D

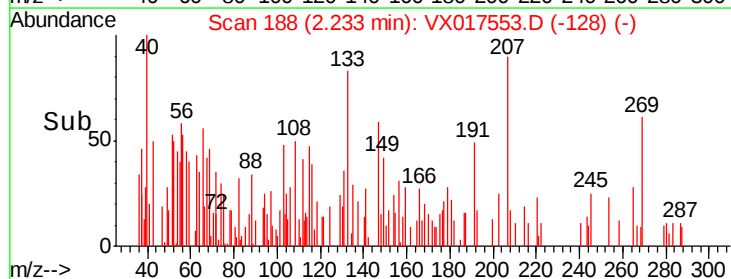
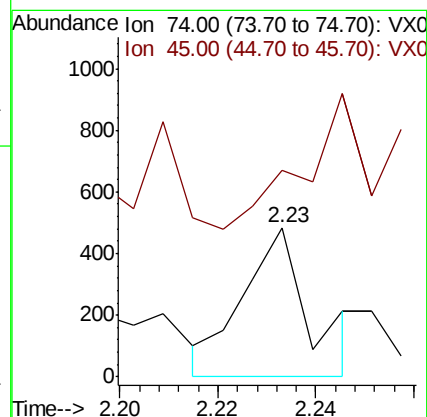
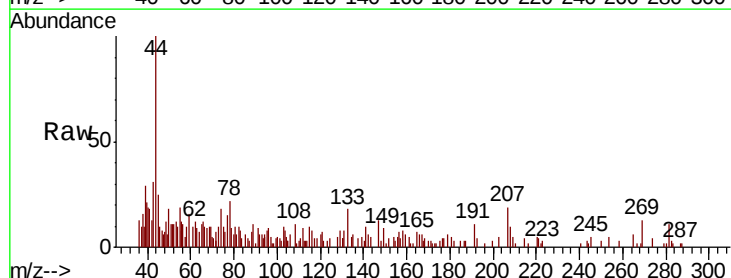
Acq: 24 Jul 2020 19:10

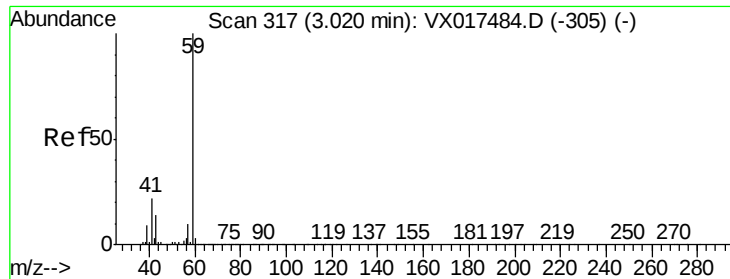
Tgt Ion: 74 Resp: 459

Ion Ratio Lower Upper

74 100

45 100.9 50.8 152.5



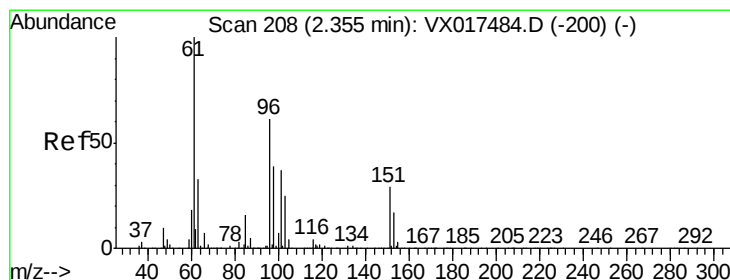
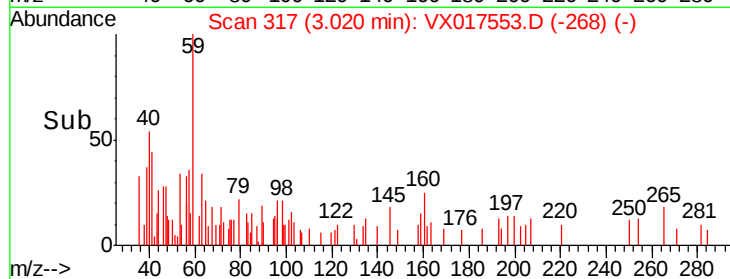
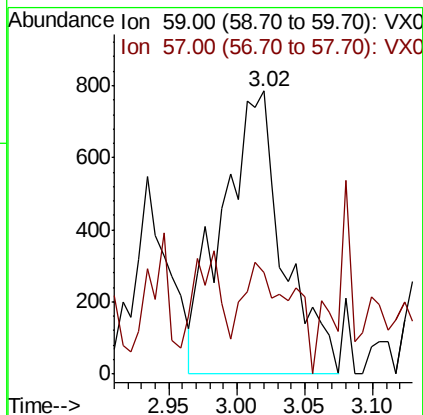
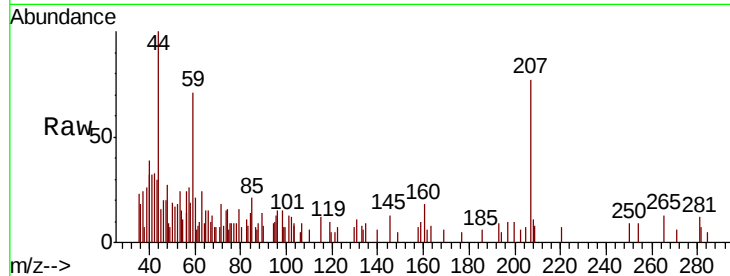


#11

Tert butyl alcohol
 Concen: 1.995 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VX017553.D
 Acq: 24 Jul 2020 19:10

Instrument :
 MSVOA_X
 ClientSampled :
 ETGI-361

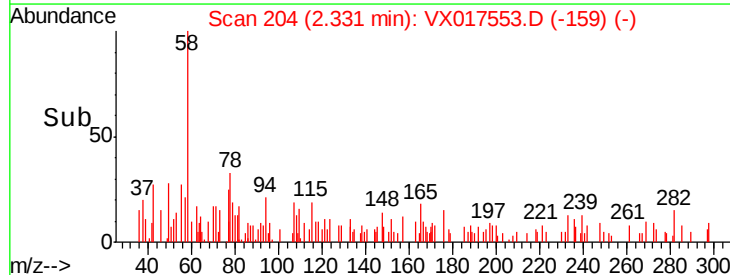
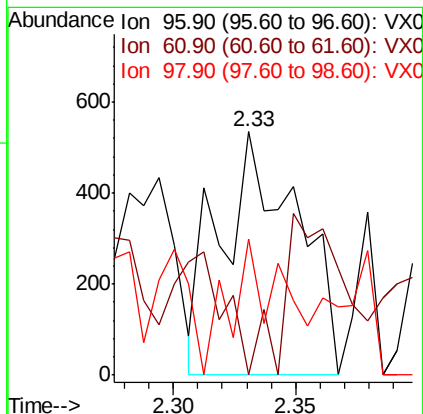
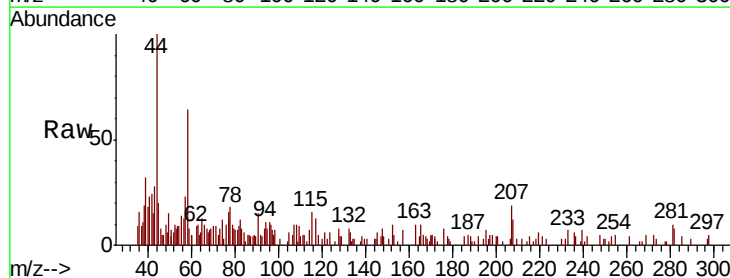
Tot Ion: 59 Resp: 2447
 Ion Ratio Lower Upper
 59 100
 57 14.5 8.6 12.8#

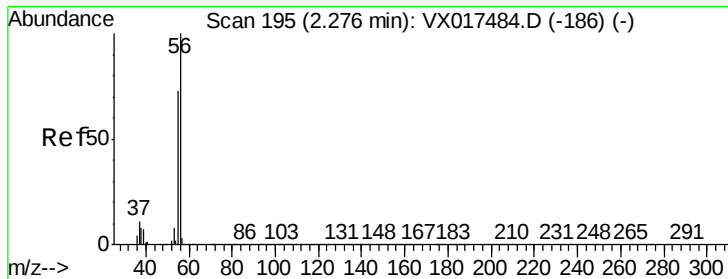


#12

1,1-Dichloroethene
 Concen: 0.250 ug/l
 RT: 2.33 min Scan# 204
 Delta R.T. -0.02 min
 Lab File: VX017553.D
 Acq: 24 Jul 2020 19:10

Tgt Ion: 96 Resp: 1171
 Ion Ratio Lower Upper
 96 100
 61 0.0 134.0 201.0#
 98 27.9 51.0 76.4#





#13

Acrolein

Concen: 4.746 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampled :

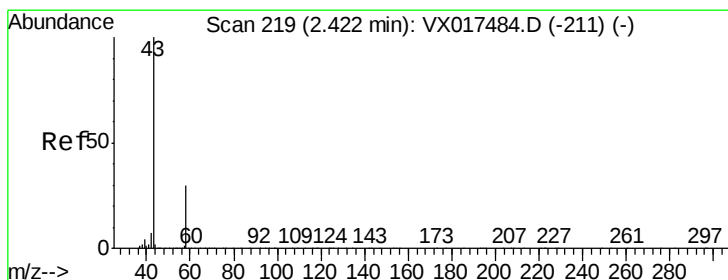
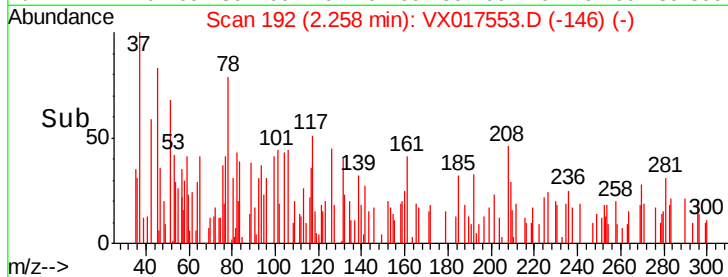
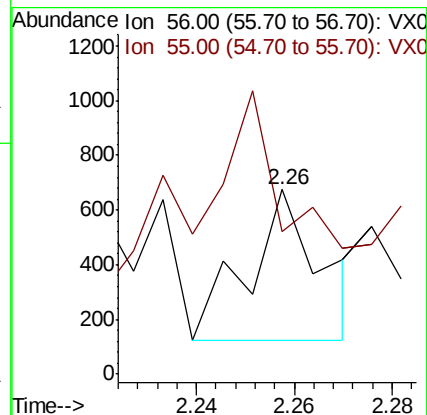
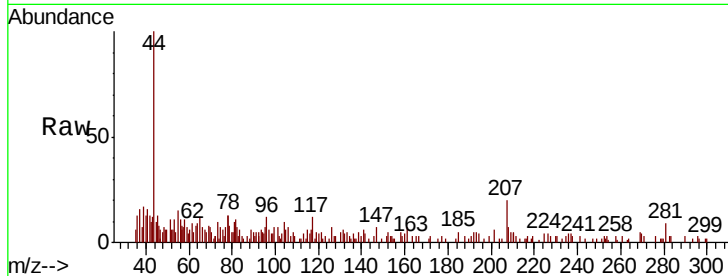
ETGI-361

Tot Ion: 56 Resp: 569

Ion Ratio Lower Upper

56 100

55 441.8 57.4 86.2#



#16

Acetone

Concen: 38.423 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017553.D

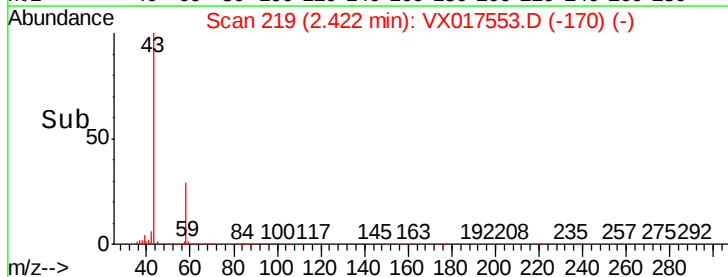
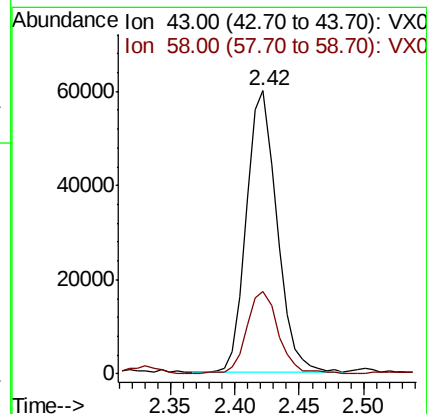
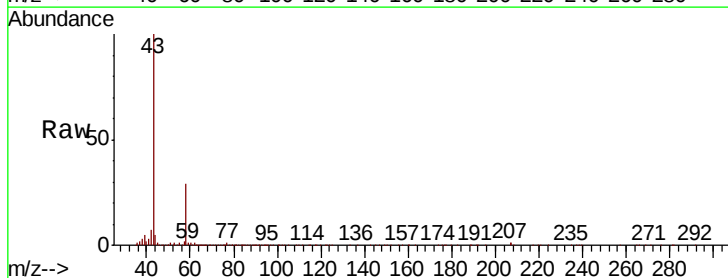
Acq: 24 Jul 2020 19:10

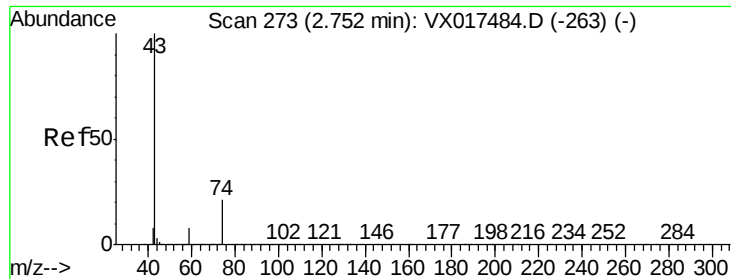
Tgt Ion: 43 Resp: 98437

Ion Ratio Lower Upper

43 100

58 29.1 24.2 36.4

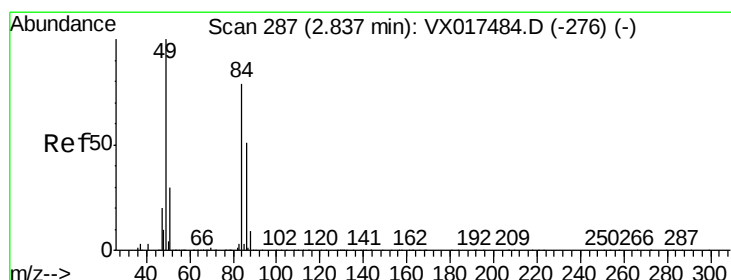
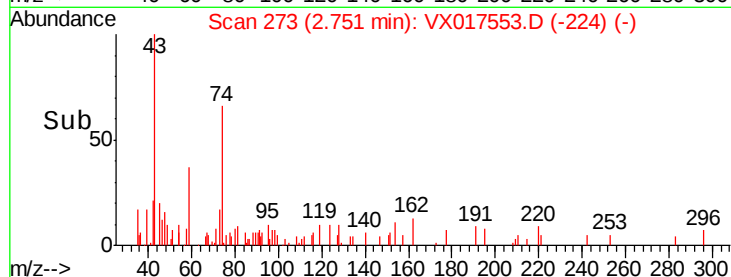
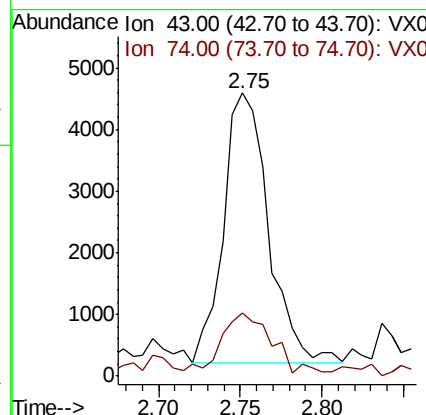
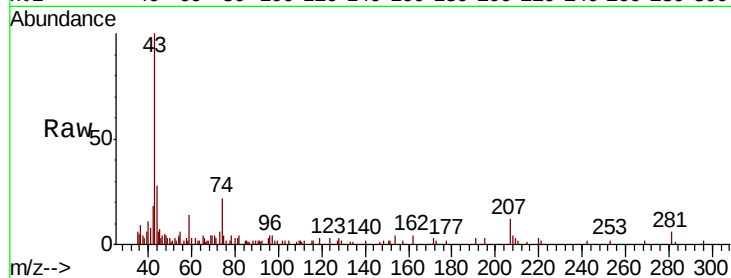




#18
Methvl Acetate
Concen: 1.399 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

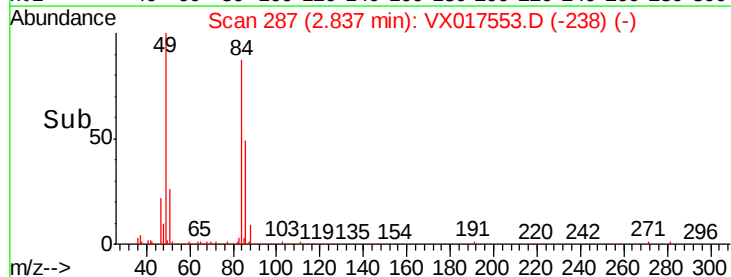
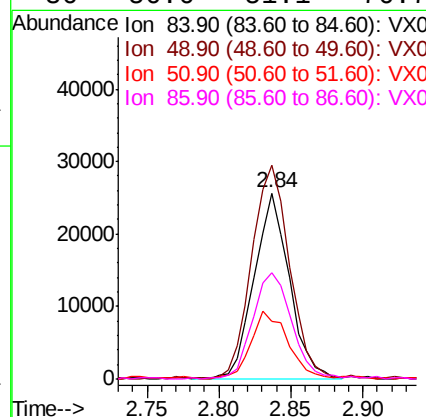
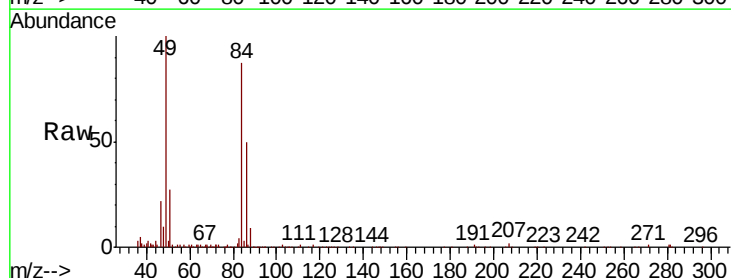
Instrument :
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ClientSampleId :
ETGI-361

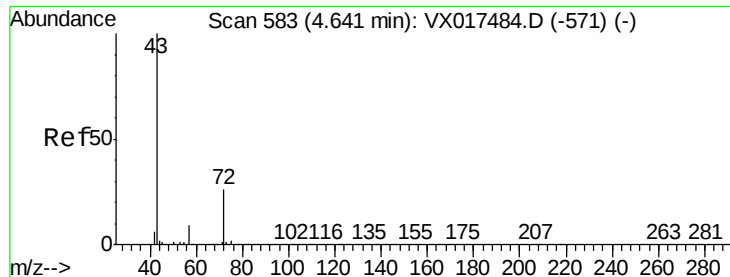
Tot Ion: 43 Resp: 8442
Ion Ratio Lower Upper
43 100
74 24.1 17.5 26.3



#20
Methylene Chloride
Concen: 7.861 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

Tgt Ion: 84 Resp: 43153
Ion Ratio Lower Upper
84 100
49 114.2 100.3 150.5
51 30.3 30.5 45.7#
86 56.6 51.1 76.7





#25

2-Butanone

Concen: 5.087 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

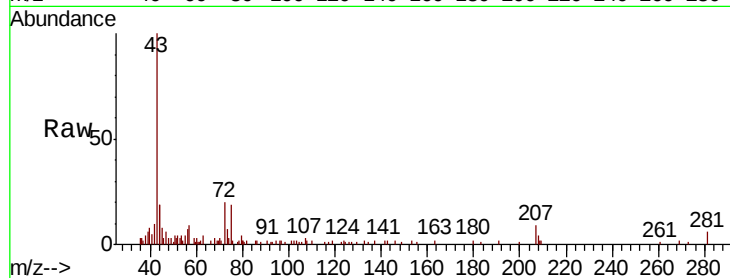
ETGI-361

Tot Ion: 43 Resp: 18514

Ion Ratio Lower Upper

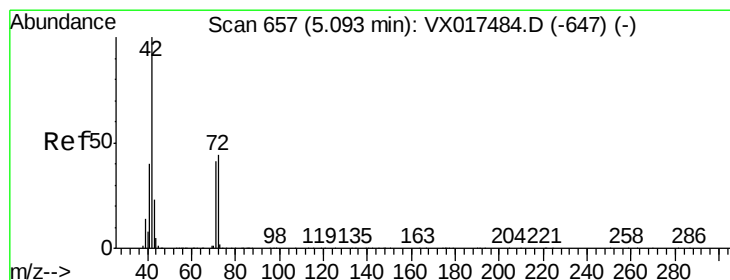
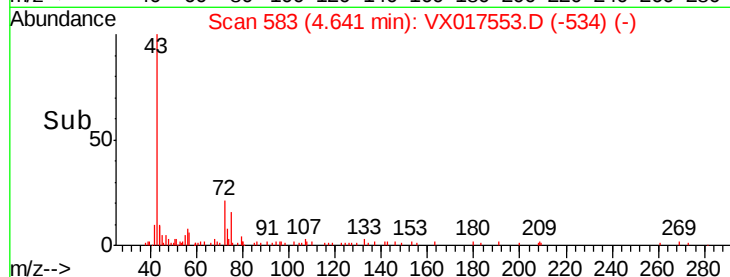
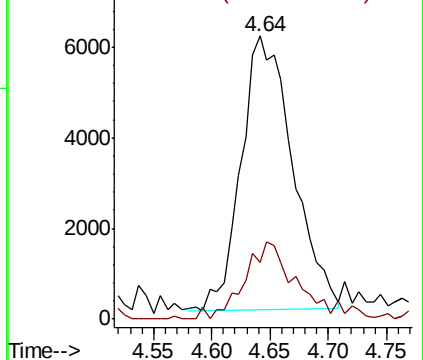
43 100

72 21.0 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.576 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

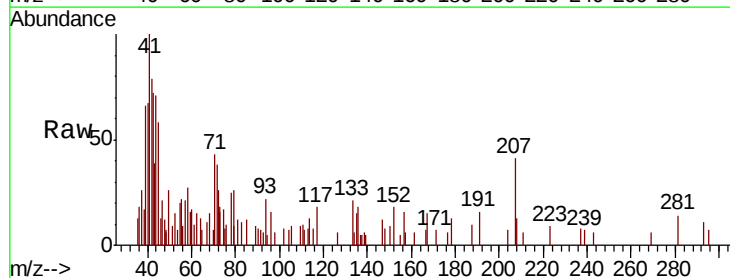
Tgt Ion: 42 Resp: 3553

Ion Ratio Lower Upper

42 100

72 13.5 35.5 53.3#

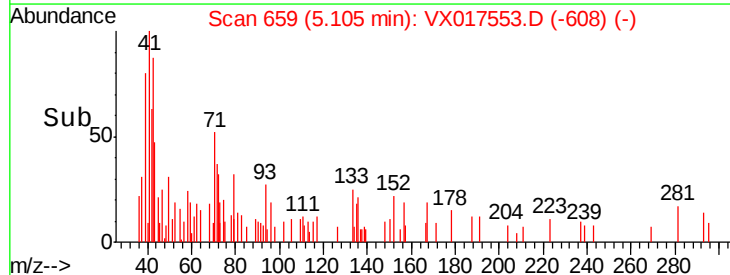
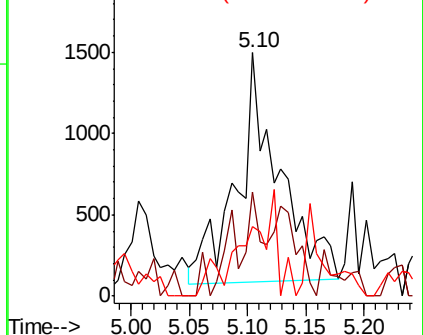
71 0.0 33.0 49.4#

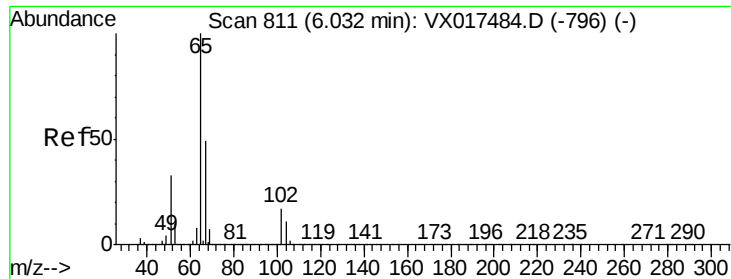


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.478 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampled :

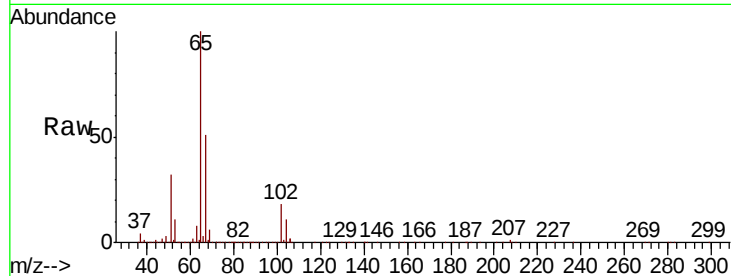
ETGI-361

Tot Ion: 65 Resp: 317107

Ion Ratio Lower Upper

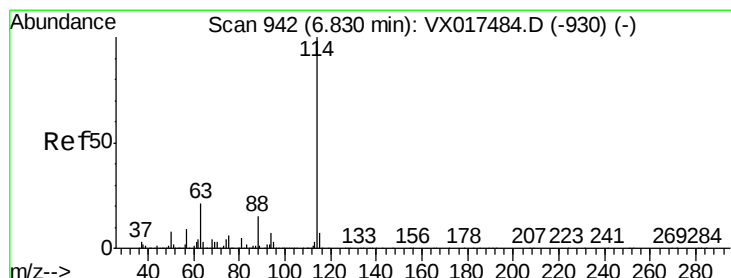
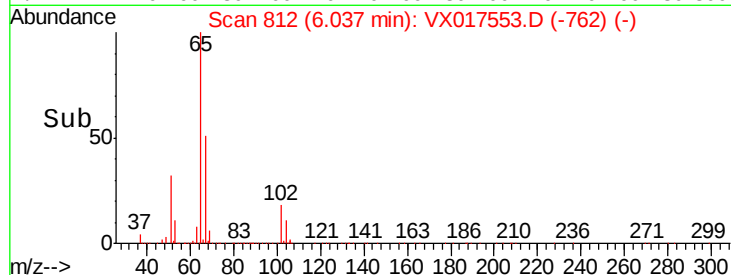
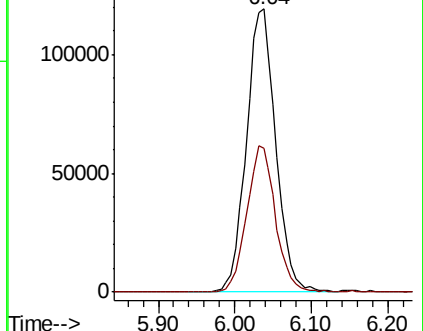
65 100

67 50.6 0.0 102.8



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. -0.00 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

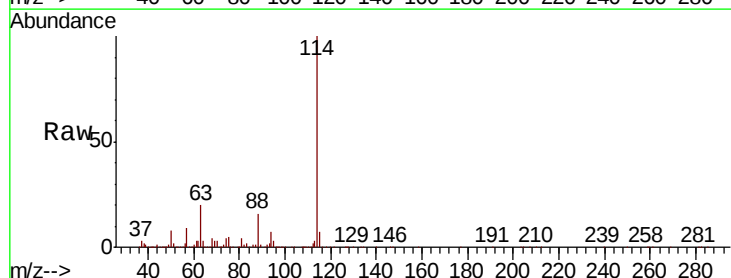
Tgt Ion: 114 Resp: 780972

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.6

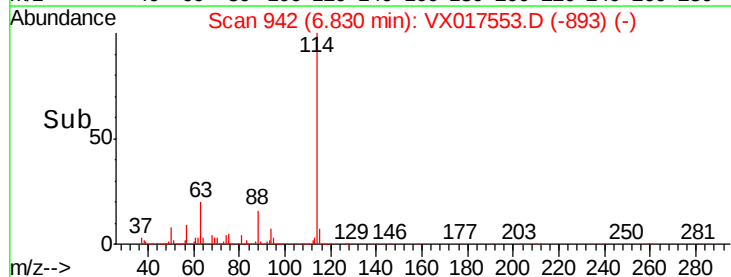
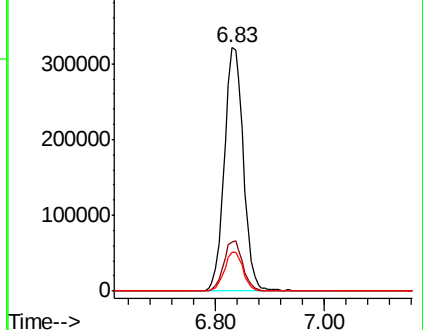
88 15.8 0.0 33.4

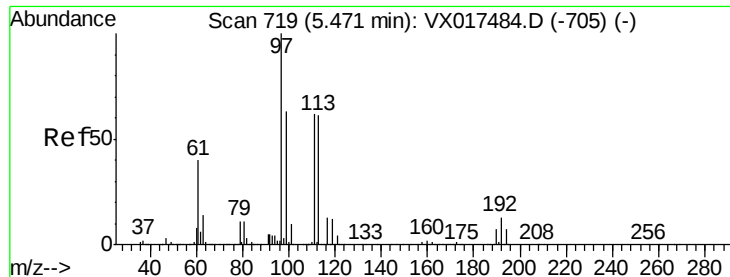


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

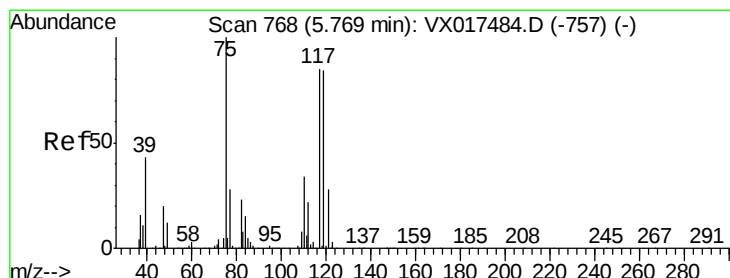
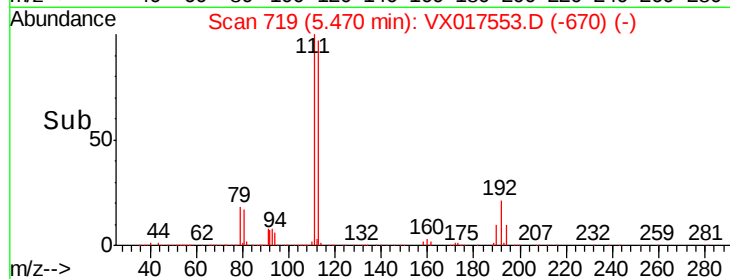
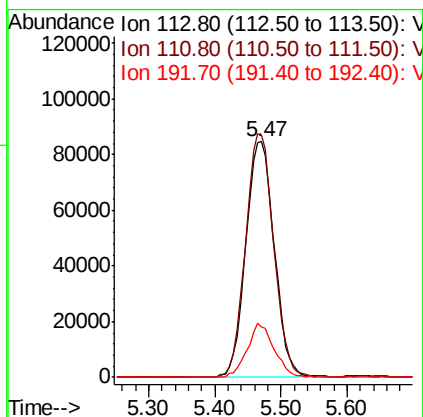
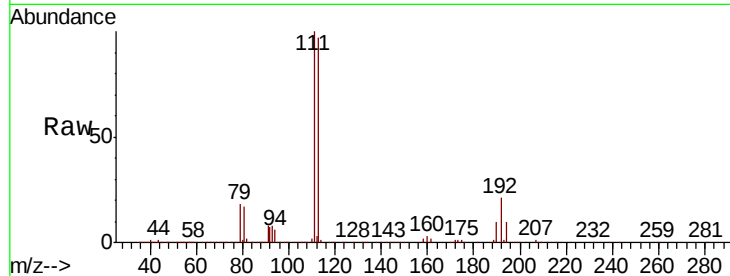




#35
Dibromofluoromethane
Concen: 48.688 ug/l
RT: 5.47 min Scan# 719
Delta R.T. -0.00 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

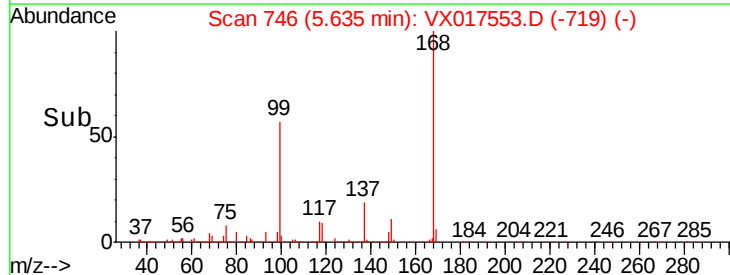
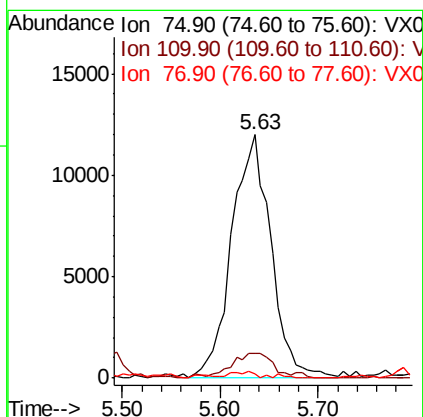
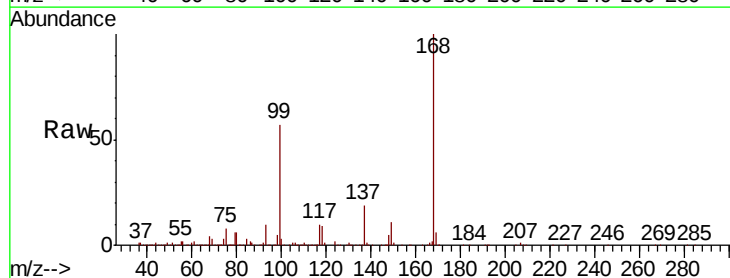
Instrument :
MSVOA_X
ClientSampleId :
ETGI-361

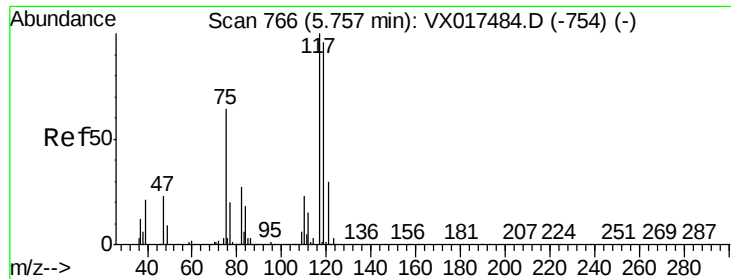
Tot Ion:113 Resp: 254304
Ion Ratio Lower Upper
113 100
111 102.1 80.7 121.1
192 21.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.387 ug/l
RT: 5.63 min Scan# 746
Delta R.T. -0.13 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

Tgt Ion: 75 Resp: 32858
Ion Ratio Lower Upper
75 100
110 10.6 18.1 54.3#
77 1.6 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 4.880 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

ETGI-361

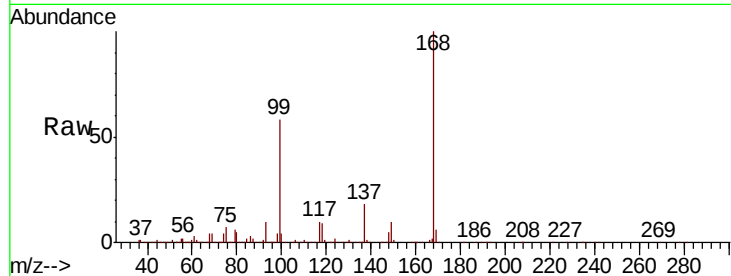
Tot Ion:117 Resp: 44386

Ion Ratio Lower Upper

117 100

119 7.5 75.4 113.0#

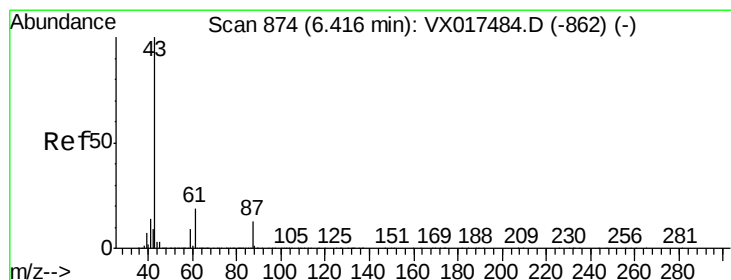
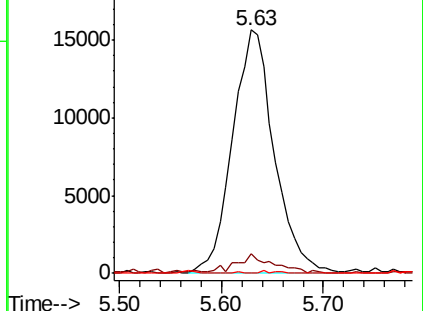
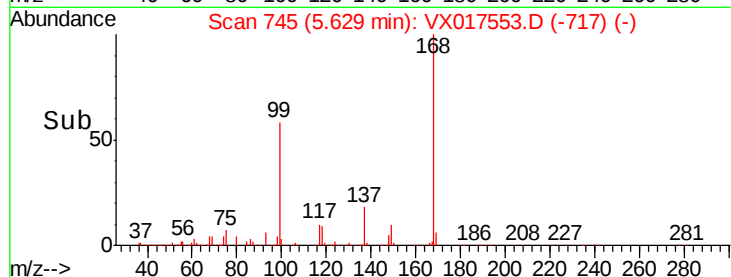
121 0.4 24.3 36.5#



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



#43

Isopropyl Acetate

Concen: 7.002 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

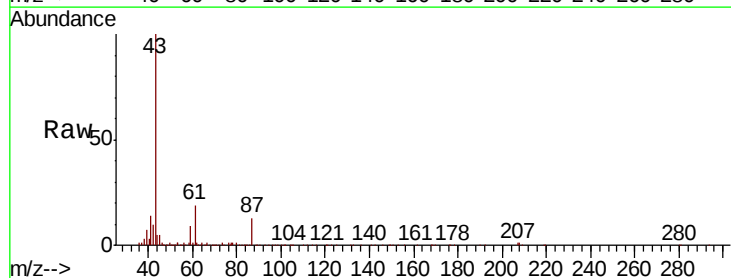
Tgt Ion: 43 Resp: 94680

Ion Ratio Lower Upper

43 100

61 19.4 15.5 23.3

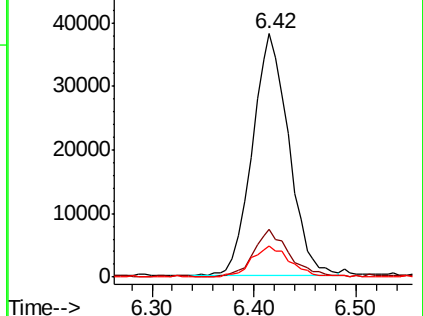
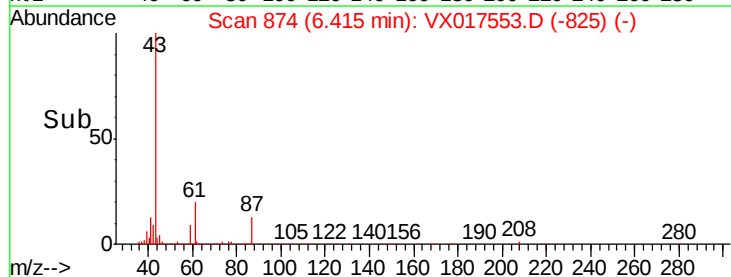
87 13.8 10.5 15.7

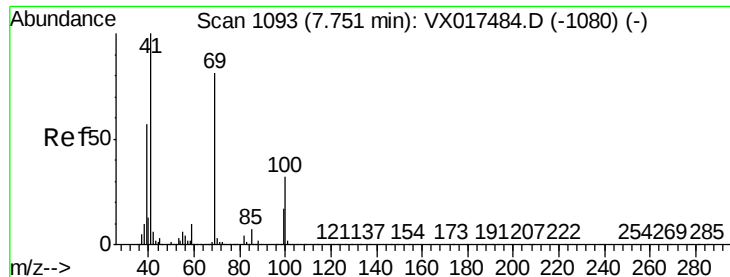


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 1.066 ug/l

RT: 7.66 min Scan# 1078

Delta R.T. -0.09 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

ETGI-361

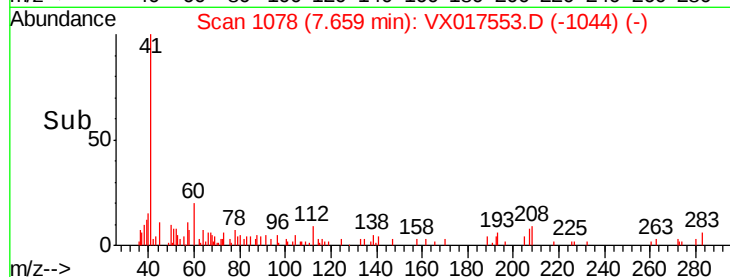
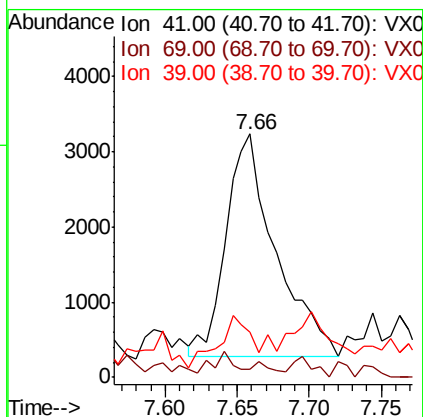
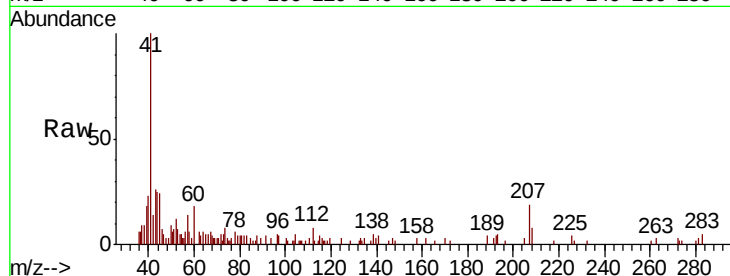
Tot Ion: 41 Resp: 7145

Ion Ratio Lower Upper

41 100

69 2.0 63.1 94.7#

39 0.0 45.1 67.7#



#49

1,4-Dioxane

Concen: 1.650 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

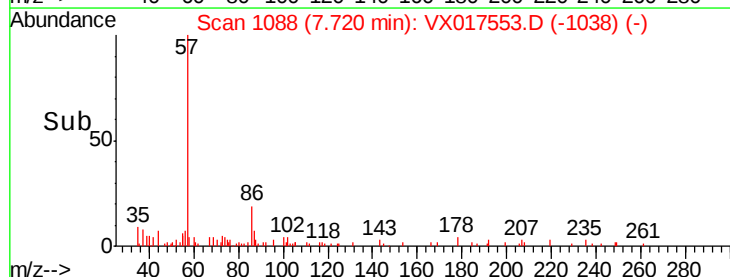
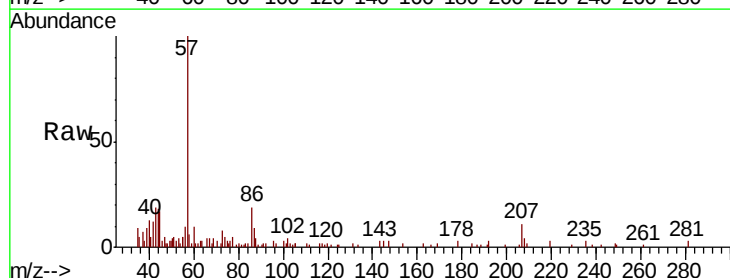
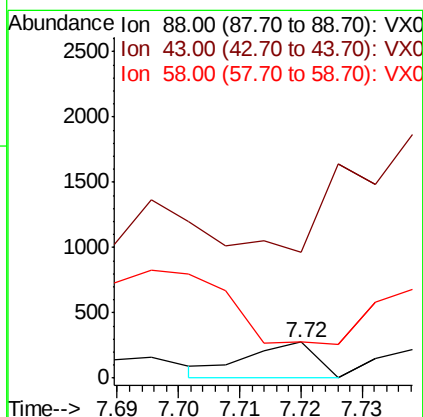
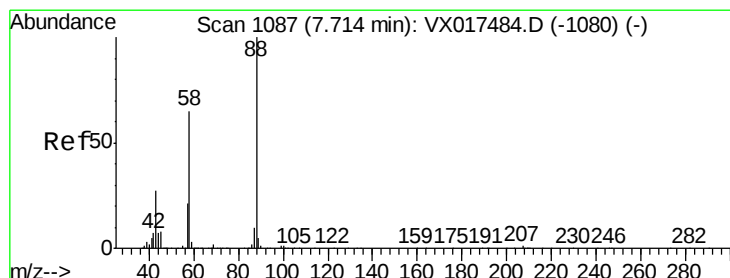
Tgt Ion: 88 Resp: 212

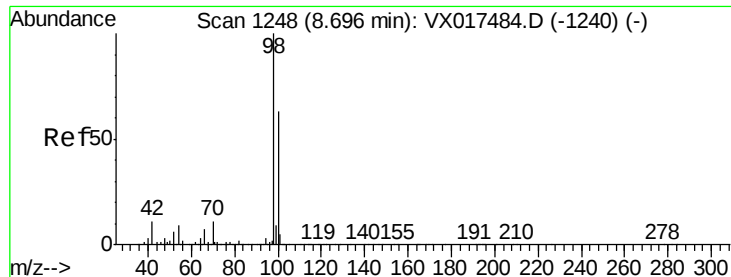
Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

58 0.0 58.3 87.5#





#50

Toluene-d8

Concen: 50.413 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

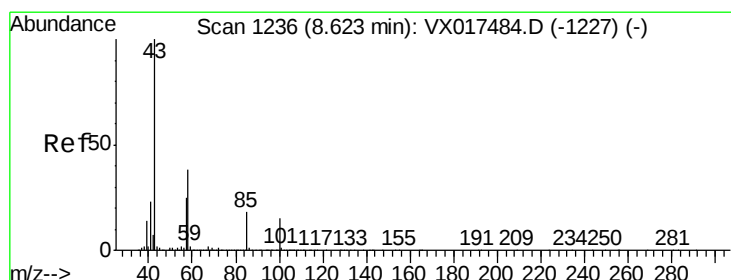
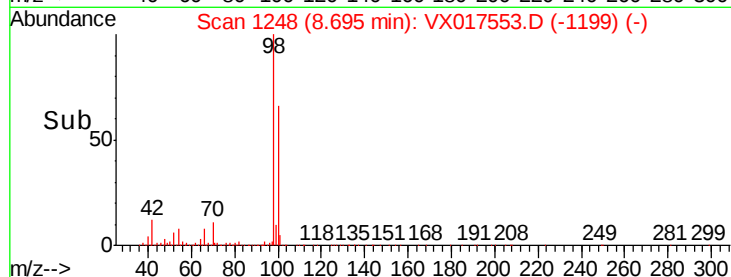
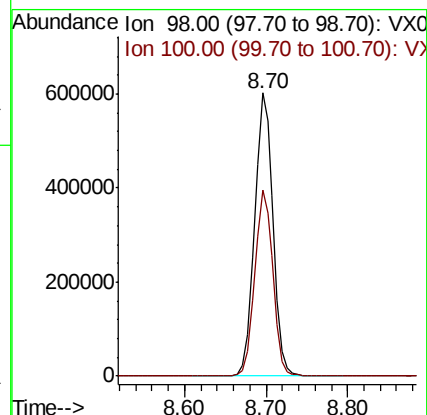
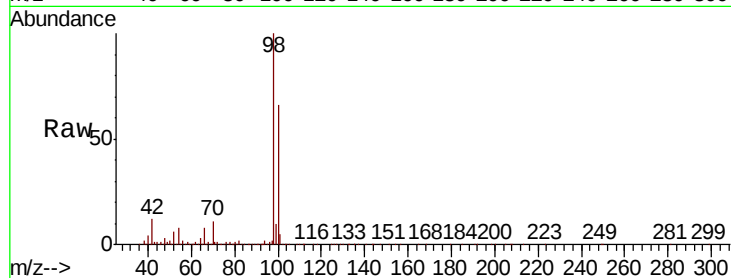
ETGI-361

Tot Ion: 98 Resp: 949906

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 12.653 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX017553.D

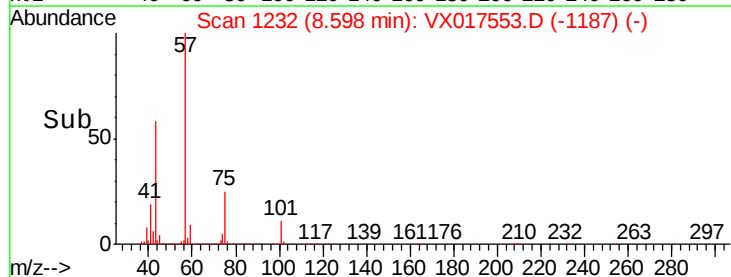
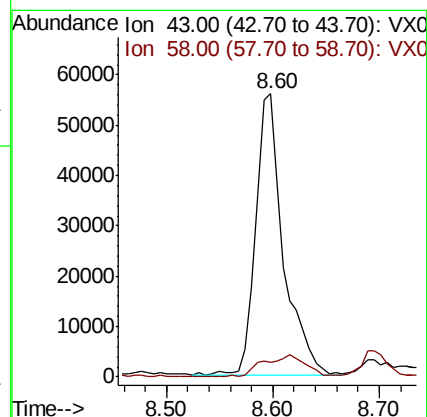
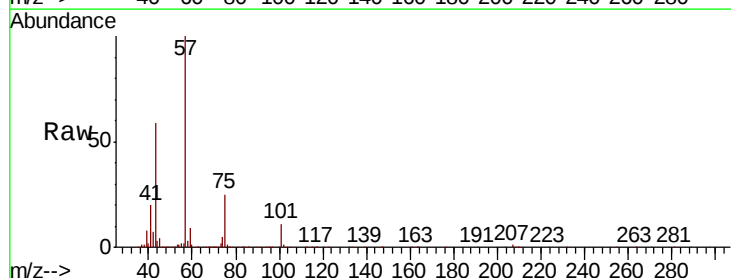
Acq: 24 Jul 2020 19:10

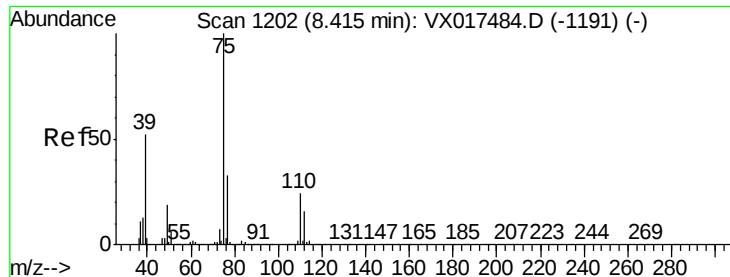
Tgt Ion: 43 Resp: 102082

Ion Ratio Lower Upper

43 100

58 12.1 31.0 46.4#





#54

cis-1,3-Dichloropropene

Concen: 4.068 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

ETGI-361

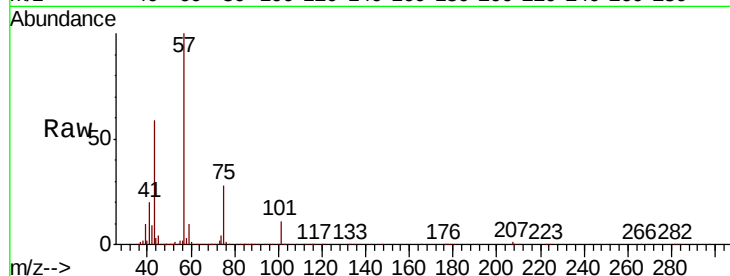
Tot Ion: 75 Resp: 39316

Ion Ratio Lower Upper

75 100

77 1.0 25.5 38.3#

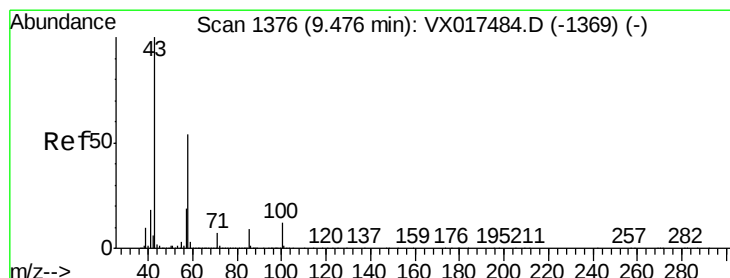
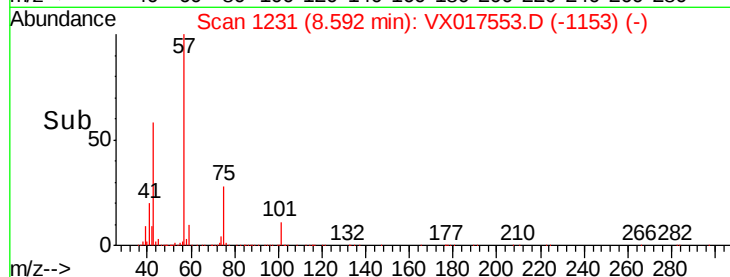
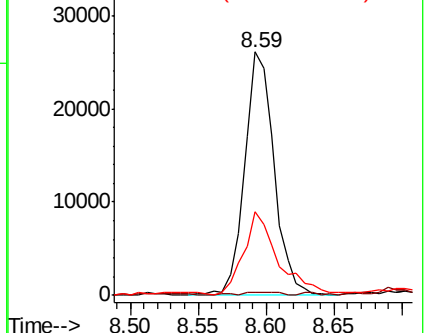
39 33.4 41.8 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 4.730 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017553.D

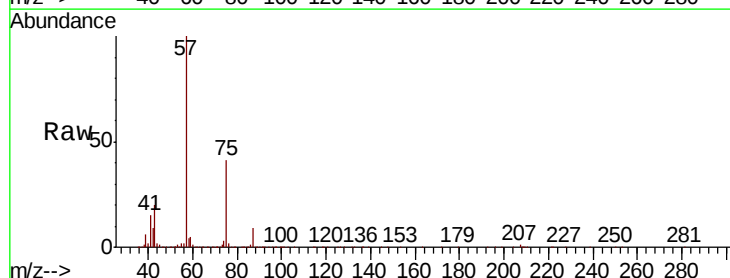
Acq: 24 Jul 2020 19:10

Tgt Ion: 43 Resp: 28733

Ion Ratio Lower Upper

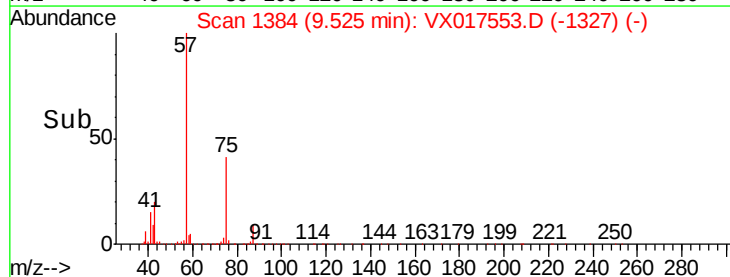
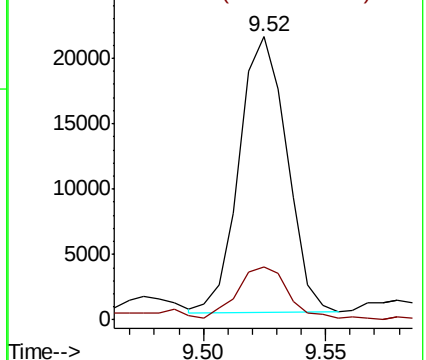
43 100

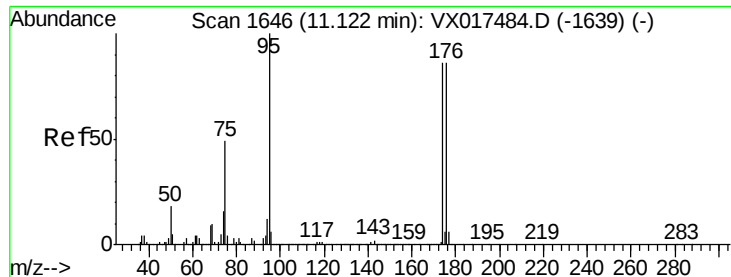
58 20.2 26.6 79.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

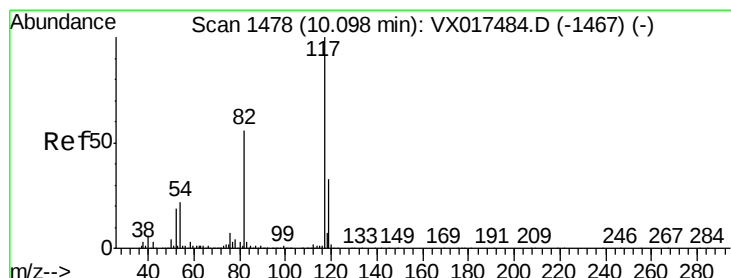
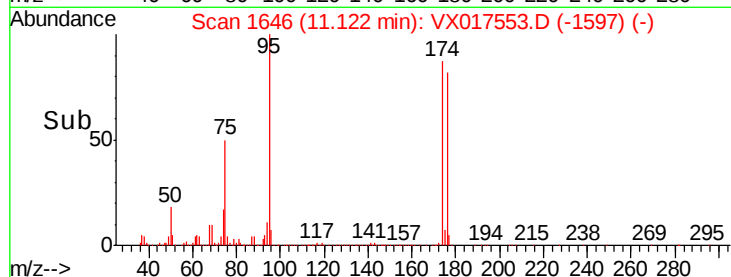
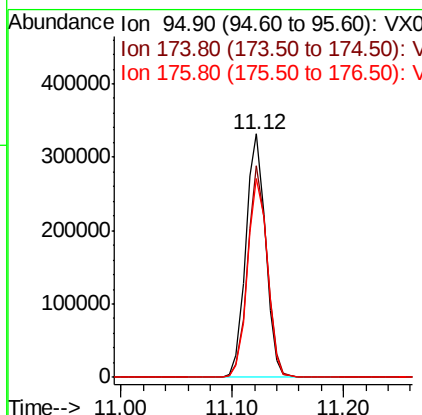
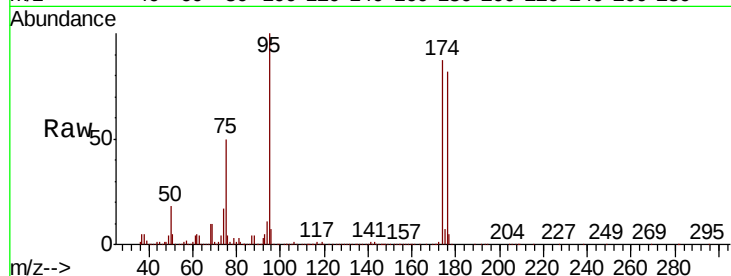




#62
4-Bromofluorobenzene
Concen: 54.139 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

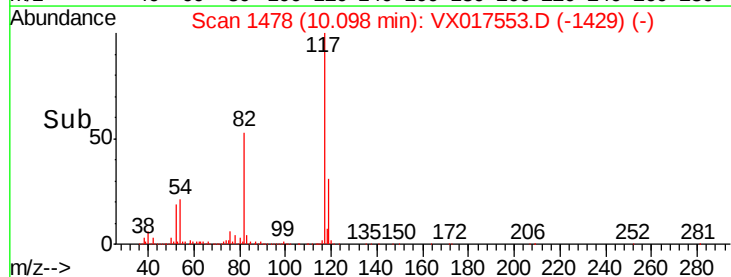
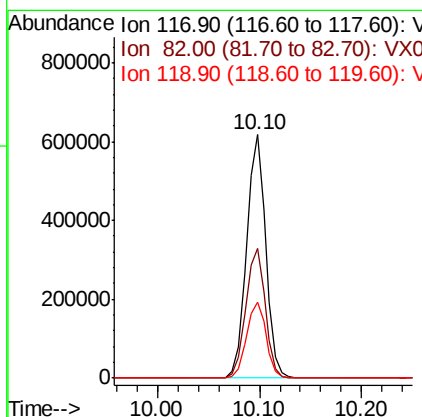
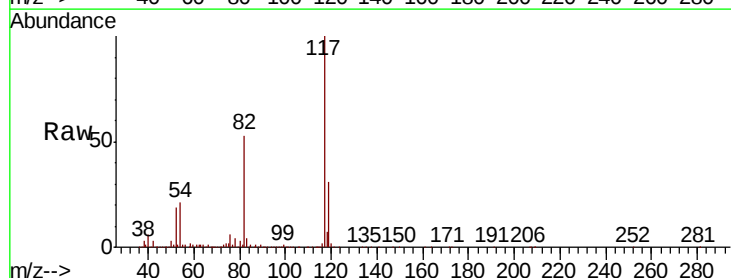
Instrument :
MSVOA_X
ClientSampleId :
ETGI-361

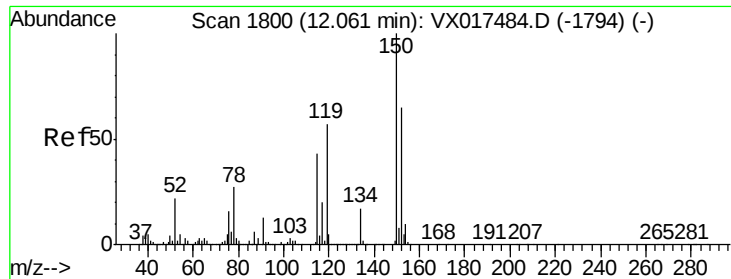
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.6	0.0	169.0
176	82.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017553.D
Acq: 24 Jul 2020 19:10

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.0	66.0
119	31.1	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

ETGI-361

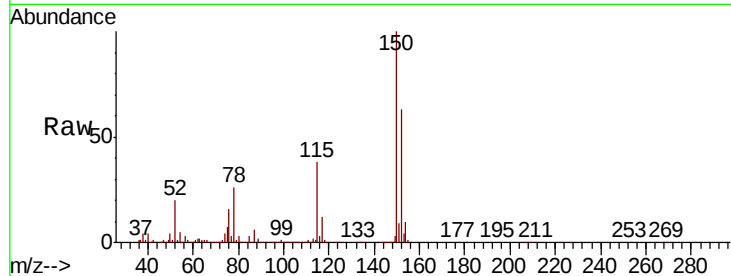
Tot Ion:152 Resp: 439465

Ion Ratio Lower Upper

152 100

115 57.8 65.5 196.6#

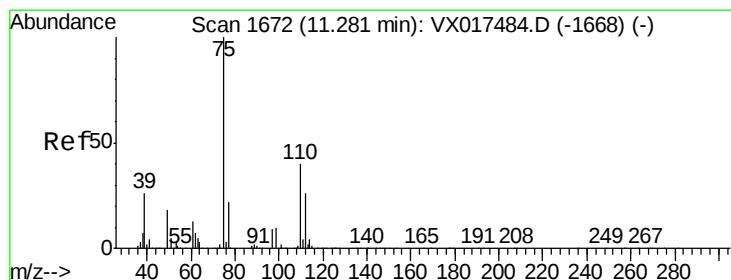
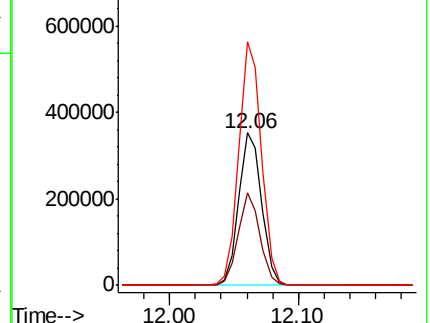
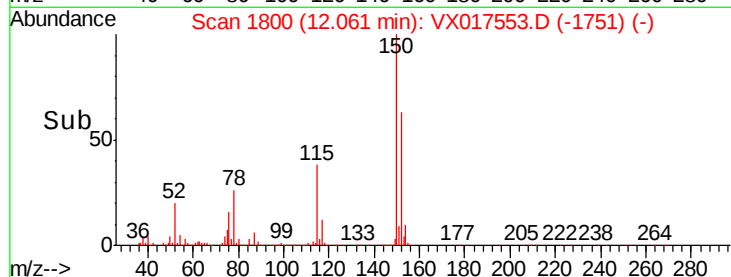
150 157.6 0.0 412.6



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: 23.058 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017553.D

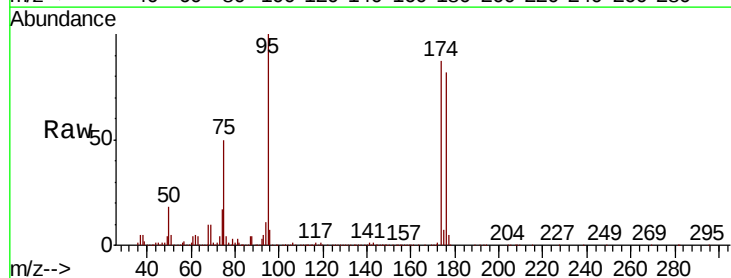
Acq: 24 Jul 2020 19:10

Tgt Ion: 75 Resp: 208443

Ion Ratio Lower Upper

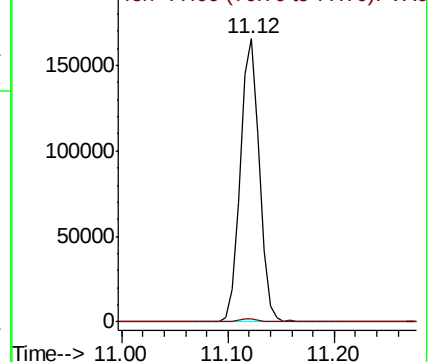
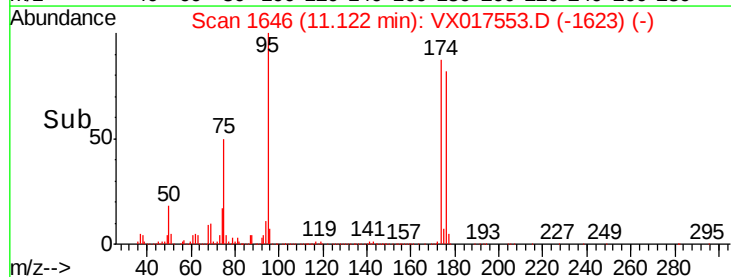
75 100

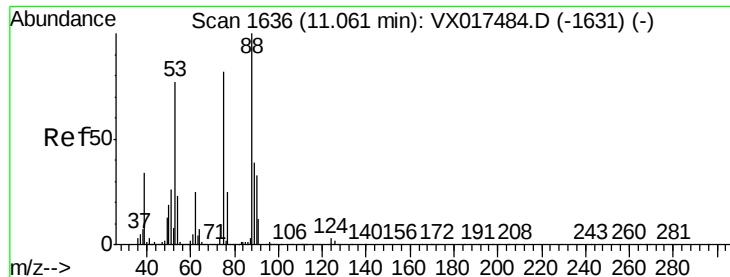
77 1.3 21.8 65.3#



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: 58.101 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

Instrument :

MSVOA_X

ClientSampleId :

ETGI-361

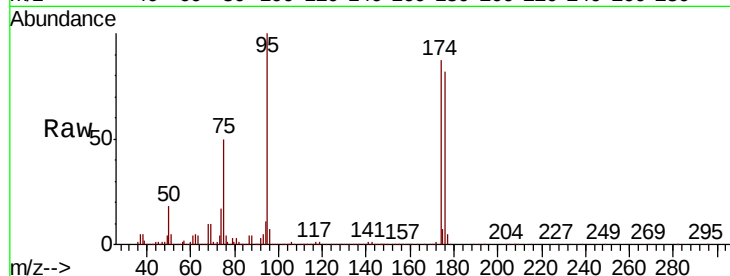
Tot Ion: 75 Resp: 208443

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

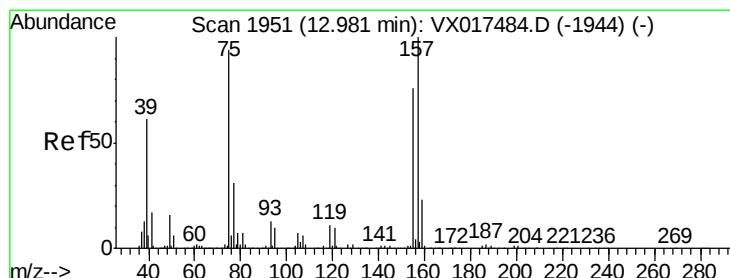
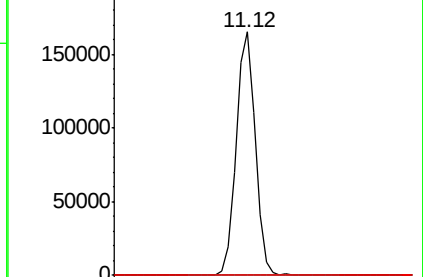
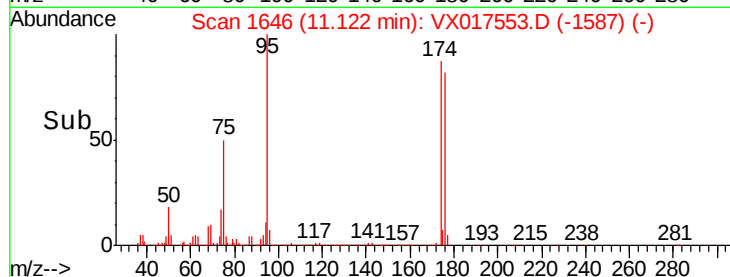
89 0.2 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.617 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017553.D

Acq: 24 Jul 2020 19:10

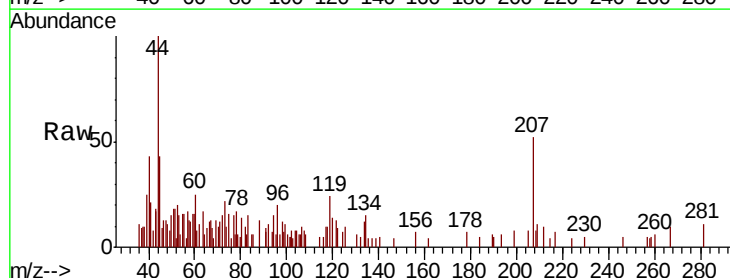
Tgt Ion: 75 Resp: 114

Ion Ratio Lower Upper

75 100

155 107.9 42.3 126.8

157 0.0 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

