

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020016.D
 Acq On : 15 Dec 2020 16:58
 Operator : JC/MD
 Sample : L5052-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6029-121020

Quant Time: Dec 16 00:26:33 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	317092	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	525257	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	473370	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	207173	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	199987	47.99	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.98%		
35) Dibromofluoromethane	5.46	113	163969	48.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.60%		
50) Toluene-d8	8.70	98	634832	48.98	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.96%		
62) 4-Bromofluorobenzene	11.12	95	223021	45.21	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	90.42%		

Target Compounds

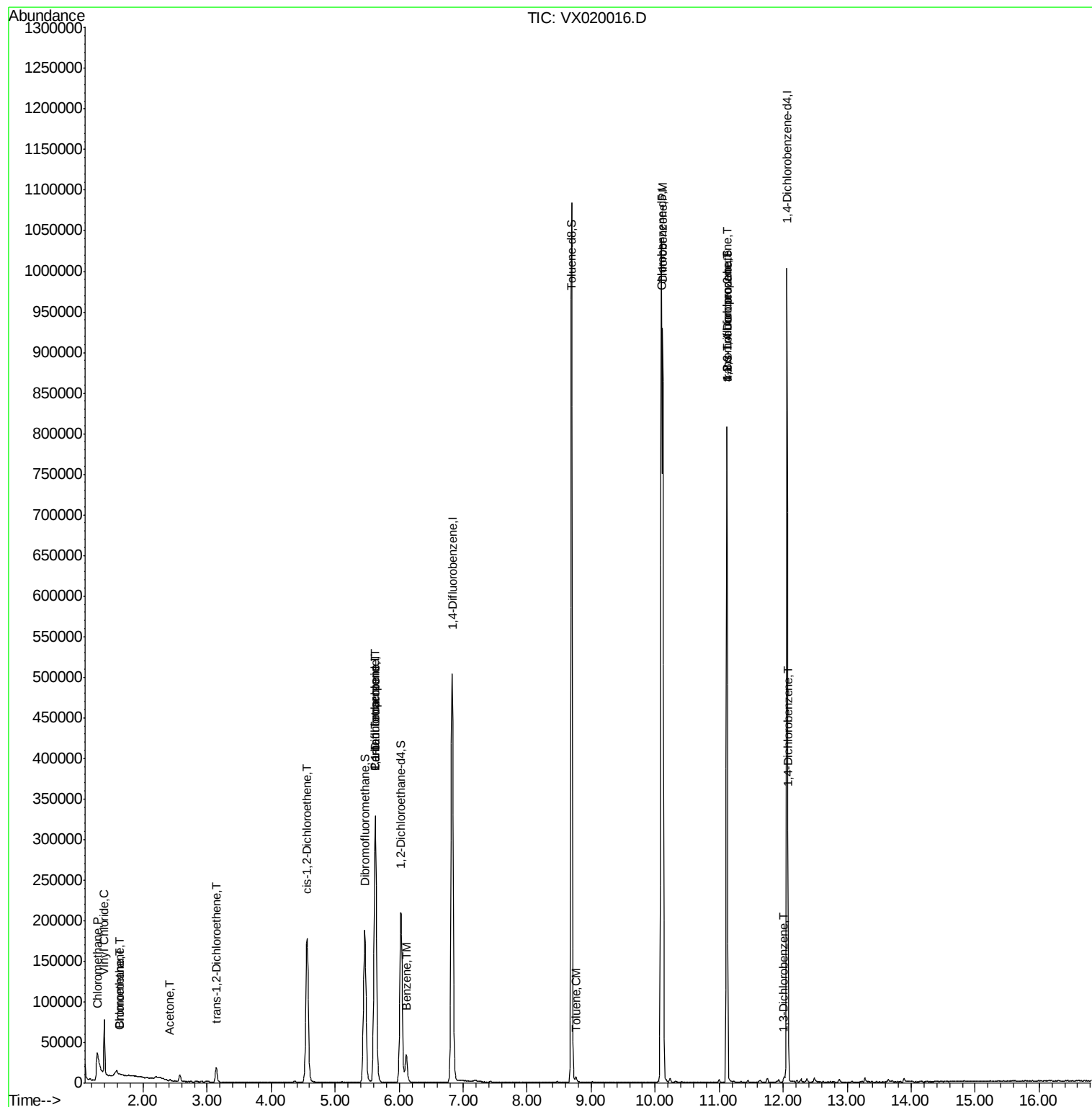
					Qvalue
3) Chloromethane	1.28	50	1004	0.294 ug/l #	42
4) Vinyl Chloride	1.39	62	38356	10.654 ug/l	94
5) Bromomethane	1.64	94	605	0.506 ug/l #	60
6) Chloroethane	1.62	64	1961	0.907 ug/l #	47
11) Tert butyl alcohol	3.00	59	1376	Below Cal #	73
16) Acetone	2.42	43	1825	1.165 ug/l	96
20) Methylene Chloride	2.83	84	465	Below Cal	97
21) trans-1,2-Dichloroethene	3.14	96	7229	2.134 ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	118147	29.807 ug/l	90
36) 1,1-Dichloropropene	5.63	75	24535	5.169 ug/l #	49
38) Carbon Tetrachloride	5.63	117	31505	6.778 ug/l #	16
40) Benzene	6.10	78	41341	2.851 ug/l	97
52) Toluene	8.76	92	2019	0.223 ug/l	98
65) Chlorobenzene	10.12	112	396010	41.991 ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	108379	23.325 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	108379	67.427 ug/l #	12
87) 1,3-Dichlorobenzene	12.01	146	1469	0.221 ug/l	98
88) 1,4-Dichlorobenzene	12.08	146	13617	2.011 ug/l	85

(#) = 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: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

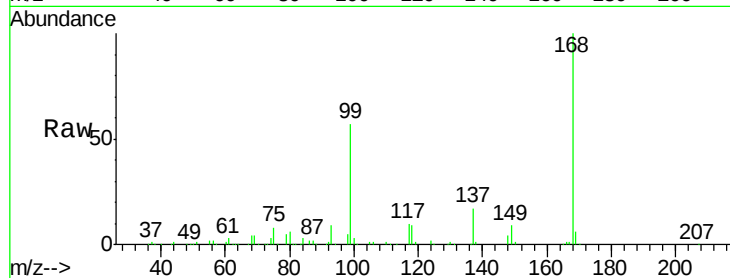
TU032-32-6029-121020

Tgt Ion:168 Resp: 317092

Ion Ratio Lower Upper

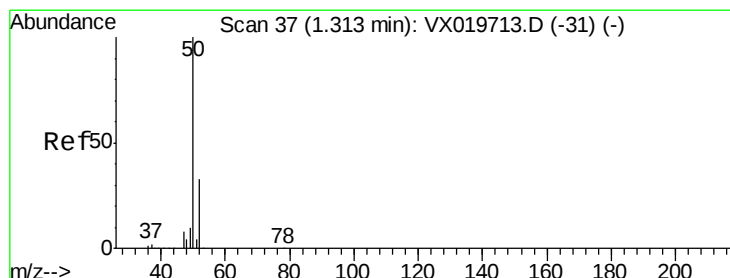
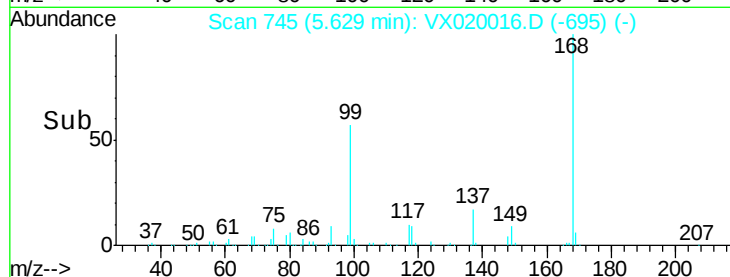
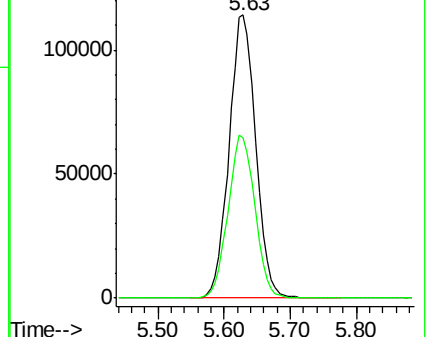
168 100

99 56.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.294 ug/l

RT: 1.28 min Scan# 32

Delta R.T. -0.03 min

Lab File: VX020016.D

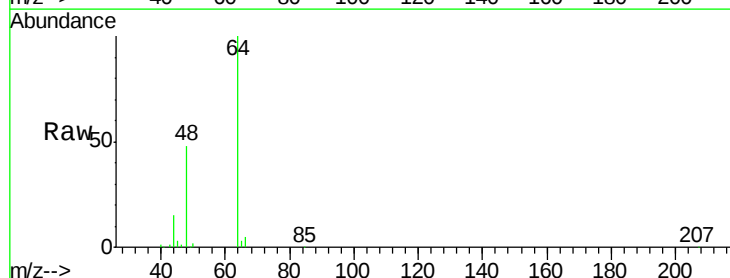
Acq: 15 Dec 2020 16:58

Tgt Ion: 50 Resp: 1004

Ion Ratio Lower Upper

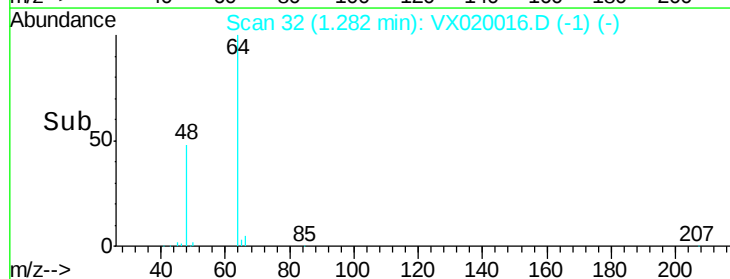
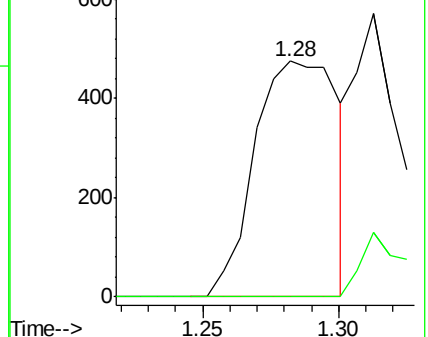
50 100

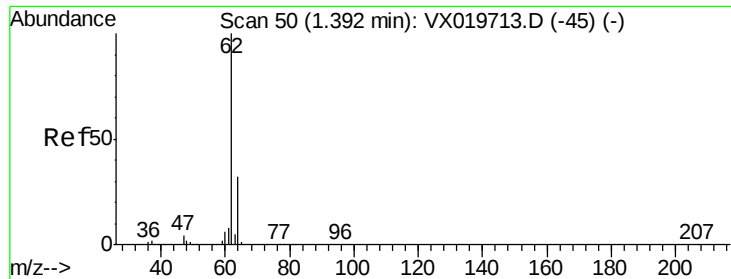
52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 10.654 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

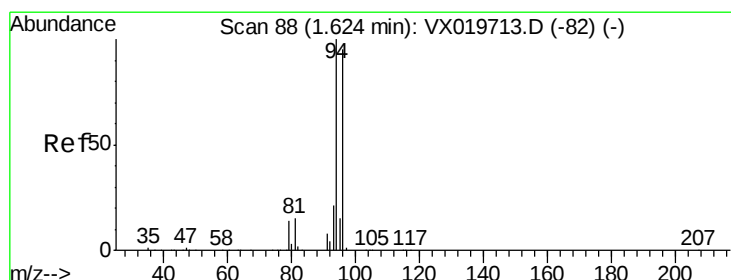
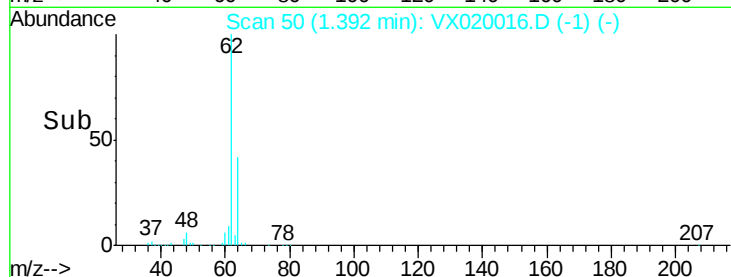
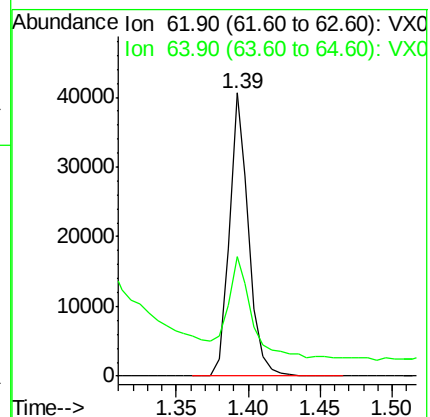
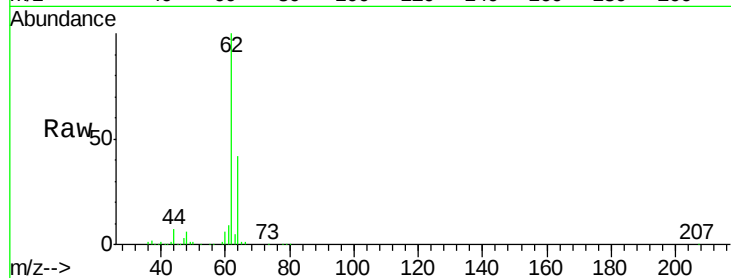
TU032-32-6029-121020

Tgt Ion: 62 Resp: 38356

Ion Ratio Lower Upper

62 100

64 35.4 25.7 38.5



#5

Bromomethane

Concen: 0.506 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020016.D

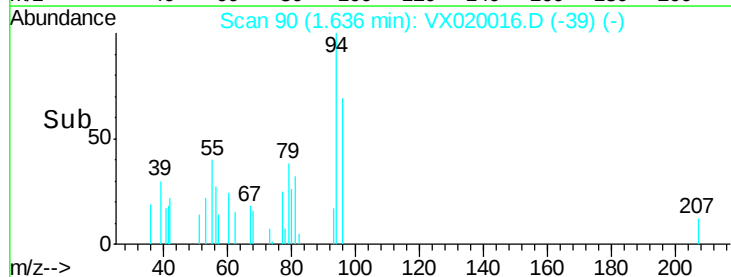
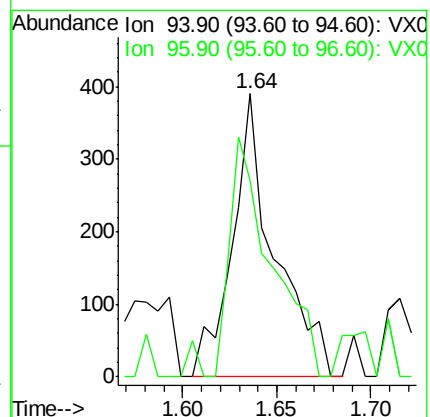
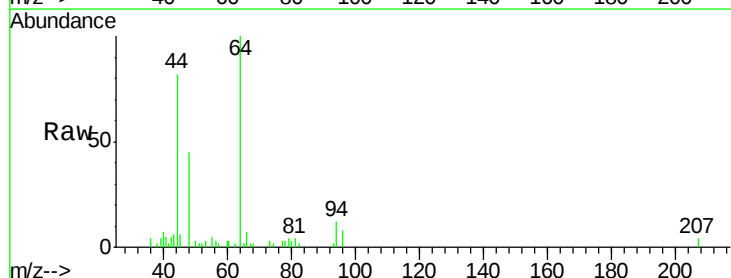
Acq: 15 Dec 2020 16:58

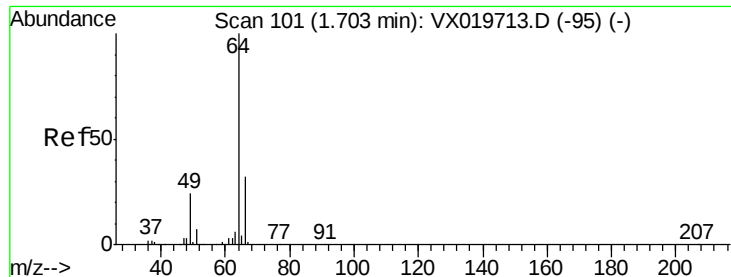
Tgt Ion: 94 Resp: 605

Ion Ratio Lower Upper

94 100

96 56.7 76.4 114.6#





#6

Chloroethane

Concen: 0.907 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.08 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

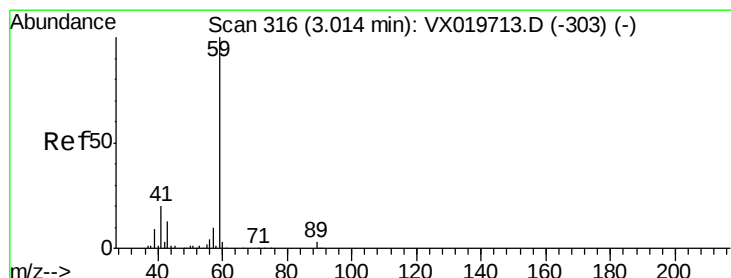
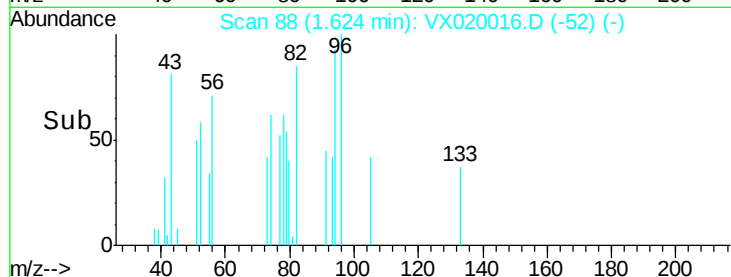
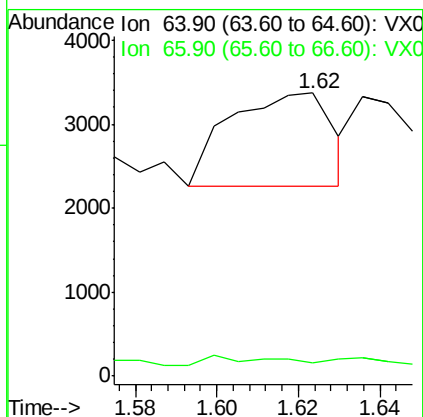
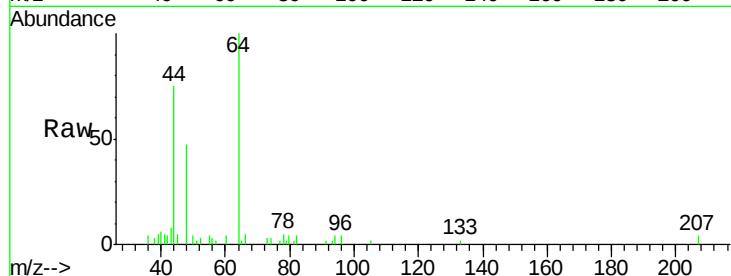
TU032-32-6029-121020

Tgt Ion: 64 Resp: 1961

Ion Ratio Lower Upper

64 100

66 2.3 25.4 38.0#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX020016.D

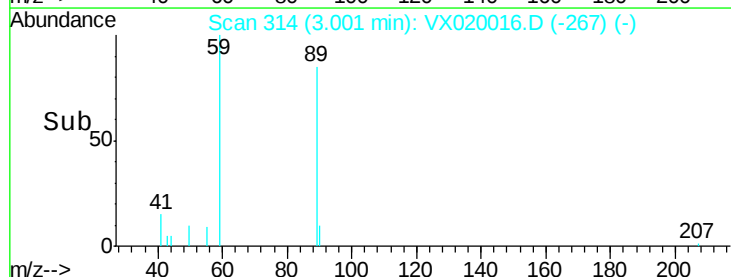
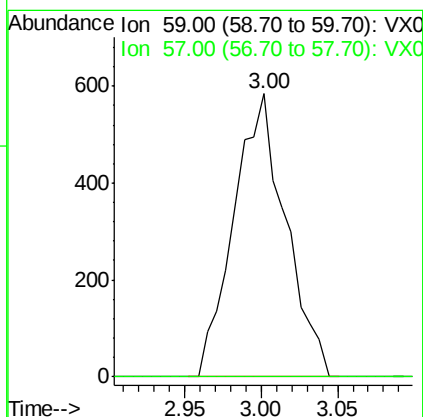
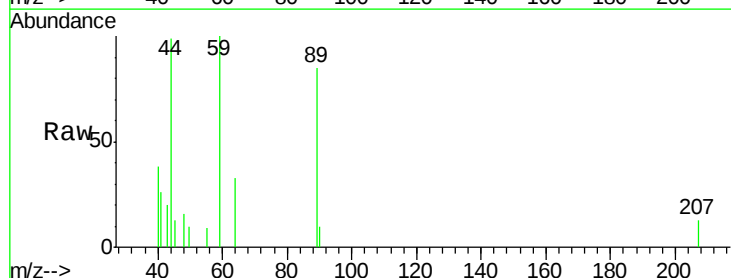
Acq: 15 Dec 2020 16:58

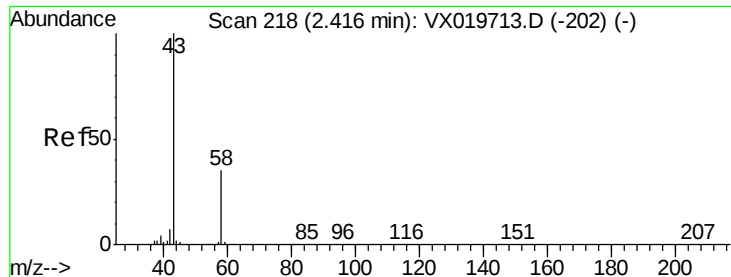
Tgt Ion: 59 Resp: 1376

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#16

Acetone

Concen: 1.165 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

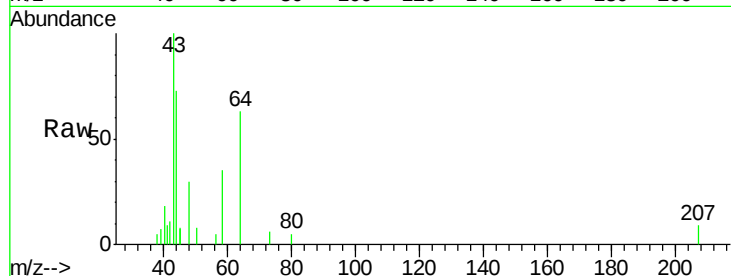
TU032-32-6029-121020

Tgt Ion: 43 Resp: 1825

Ion Ratio Lower Upper

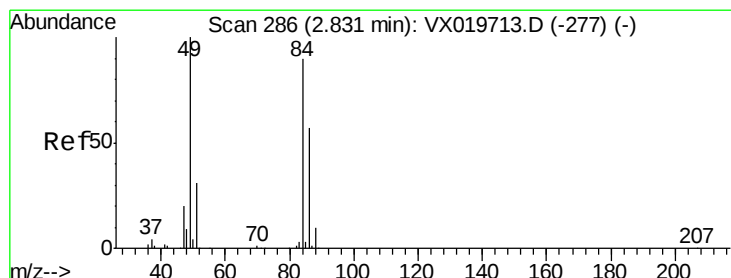
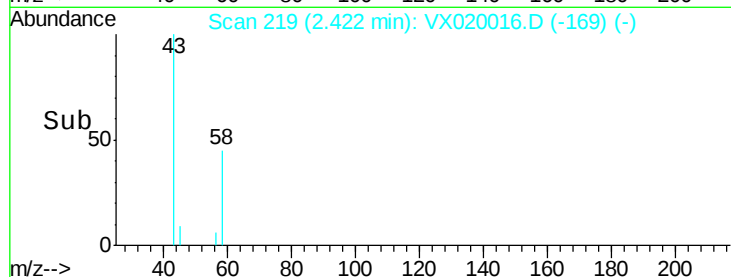
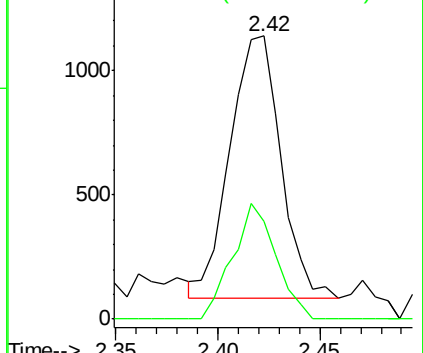
43 100

58 37.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Tgt Ion: 84 Resp: 465

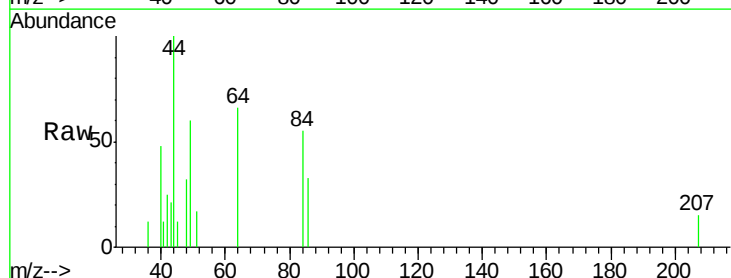
Ion Ratio Lower Upper

84 100

49 109.7 88.6 132.8

51 30.4 27.0 40.6

86 59.9 50.3 75.5

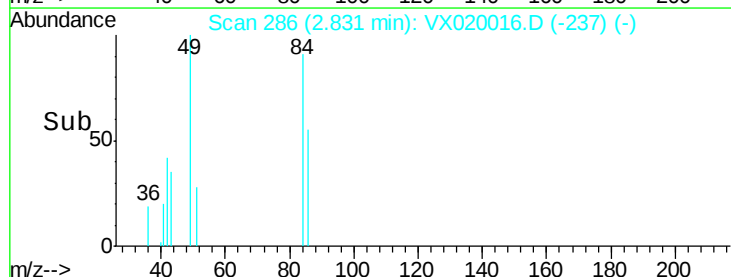
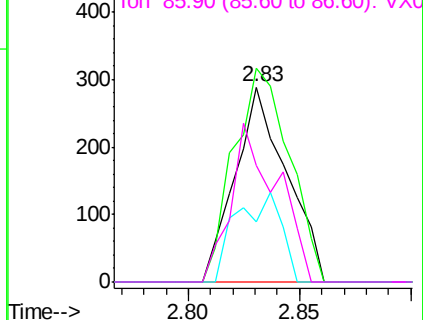


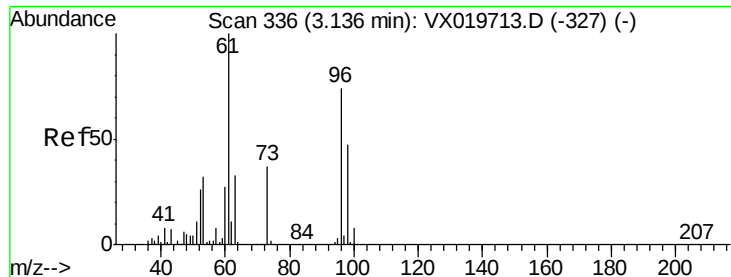
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 2.134 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6029-121020

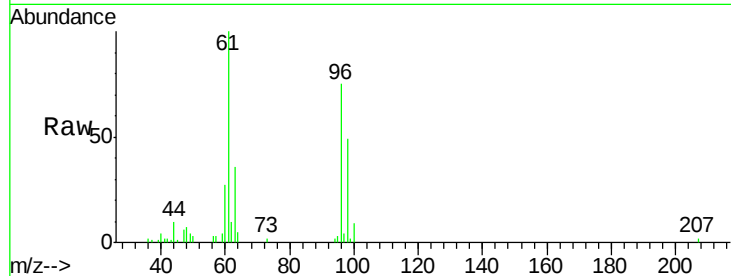
Tgt Ion: 96 Resp: 7229

Ion Ratio Lower Upper

96 100

61 132.8 107.7 161.5

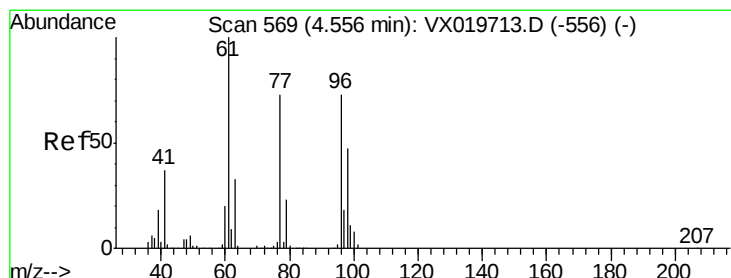
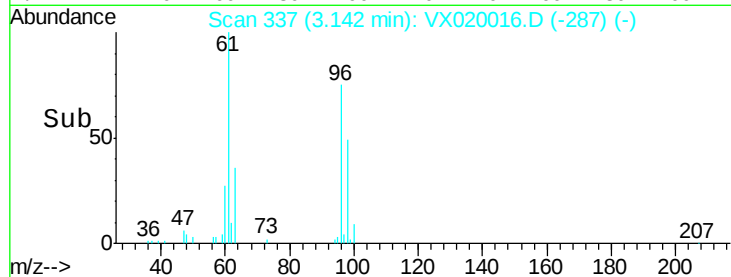
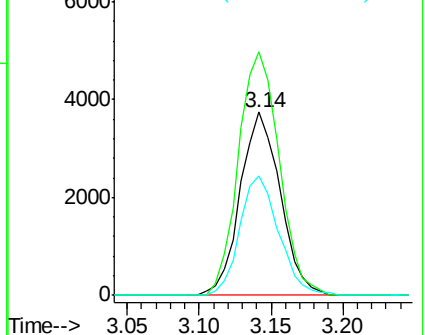
98 65.1 50.4 75.6



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



#27

cis-1,2-Dichloroethene

Concen: 29.807 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

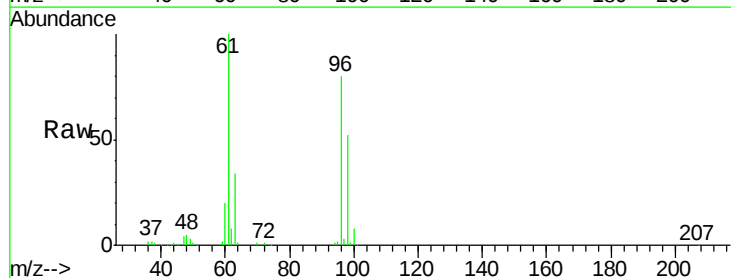
Tgt Ion: 96 Resp: 118147

Ion Ratio Lower Upper

96 100

61 124.9 0.0 285.6

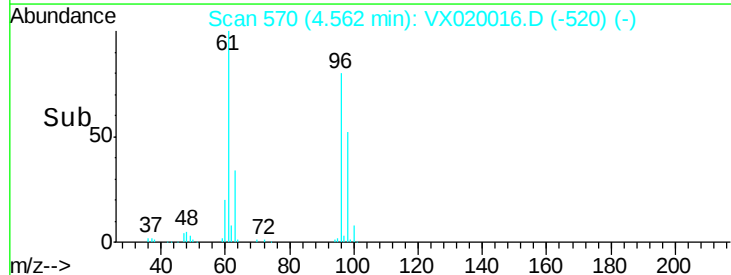
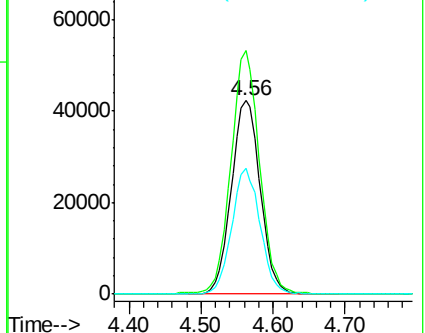
98 63.6 0.0 129.6

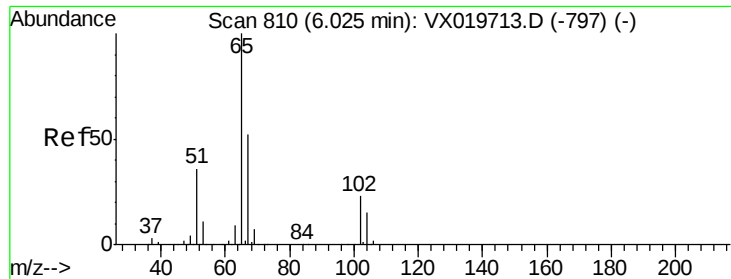


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

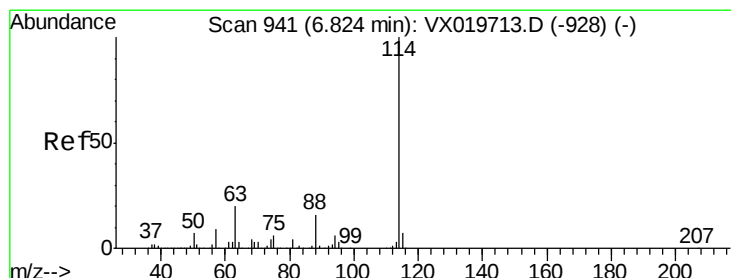
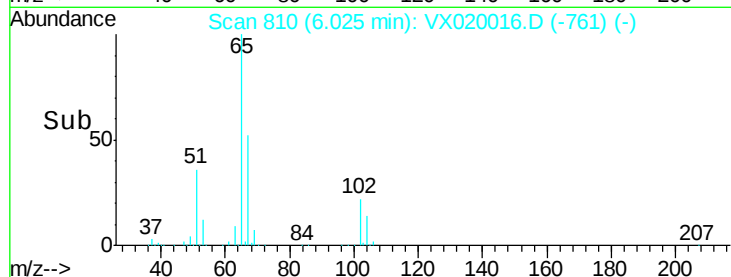
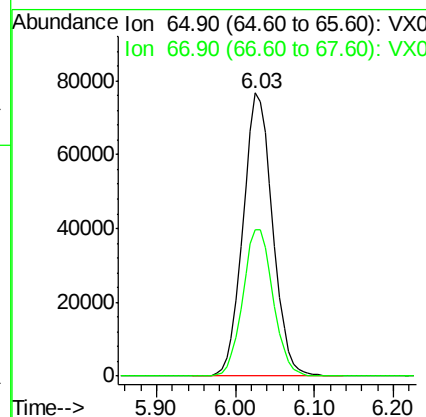
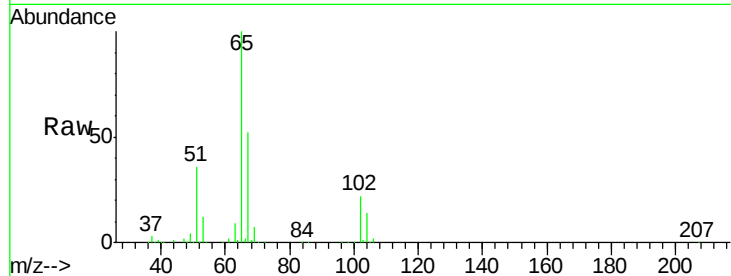




#33
 1,2-Dichloroethane-d4
 Concen: 47.987 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX020016.D
 Acq: 15 Dec 2020 16:58

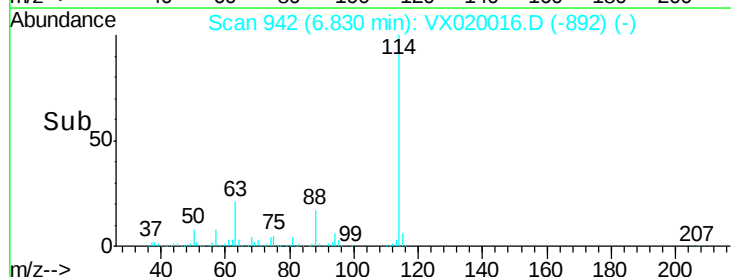
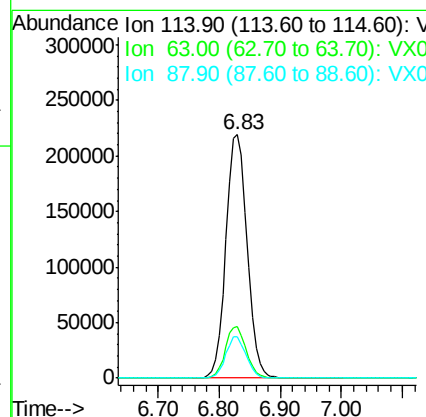
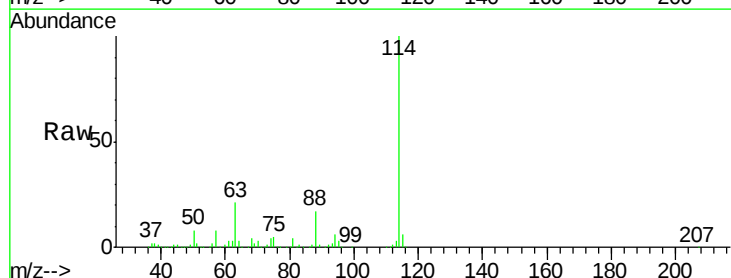
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6029-121020

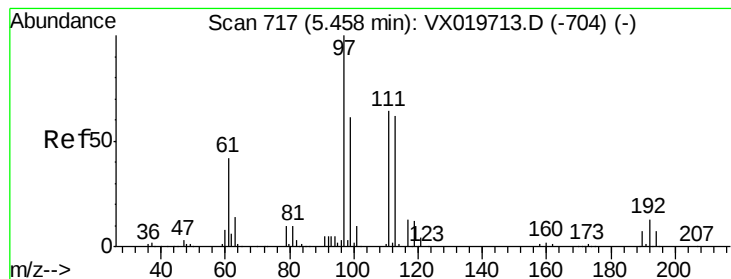
Tgt Ion: 65 Resp: 199987
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX020016.D
 Acq: 15 Dec 2020 16:58

Tgt Ion: 114 Resp: 525257
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 17.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.302 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6029-121020

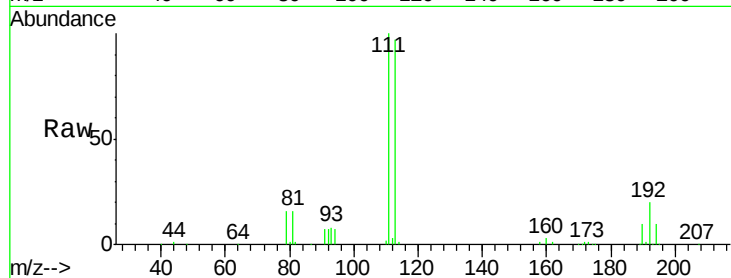
Tgt Ion:113 Resp: 163969

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

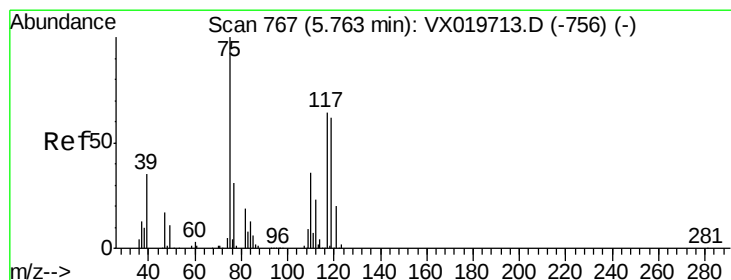
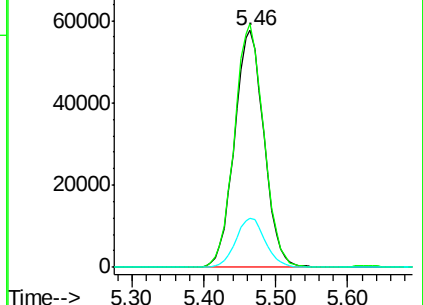
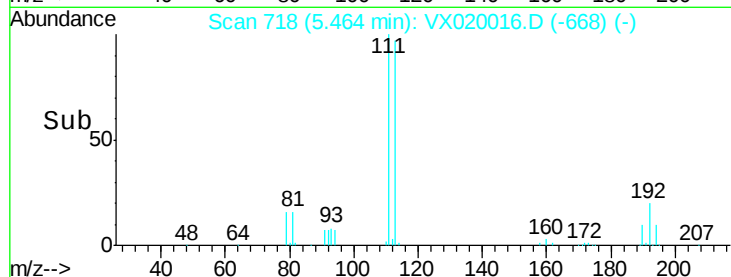
192 20.7 16.7 25.1



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: 5.169 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

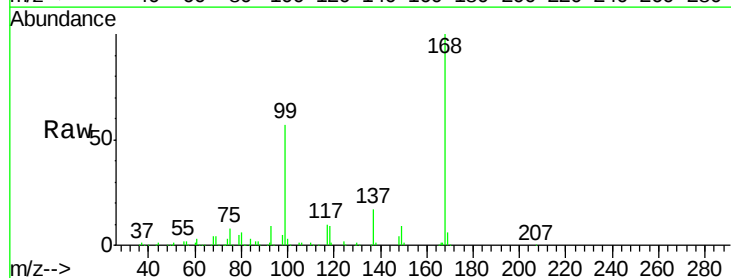
Tgt Ion: 75 Resp: 24535

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

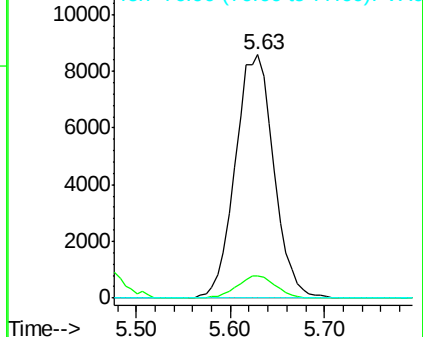
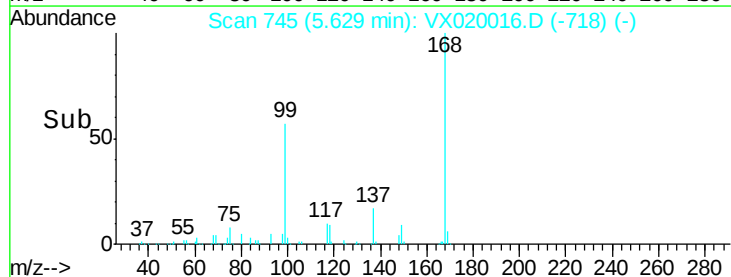
77 0.0 25.3 37.9#

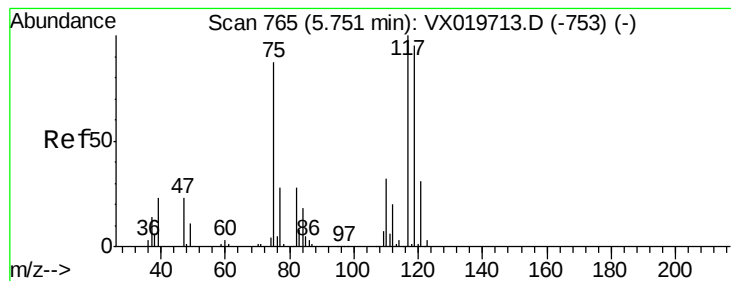


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.778 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6029-121020

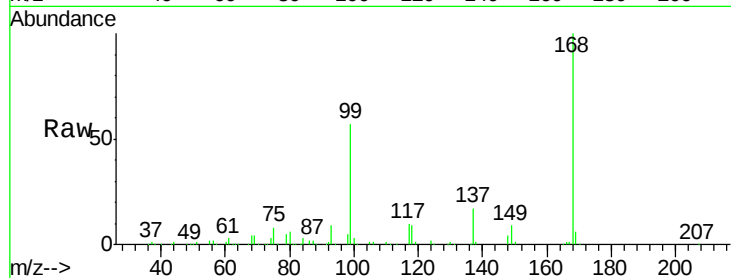
Tgt Ion:117 Resp: 31505

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

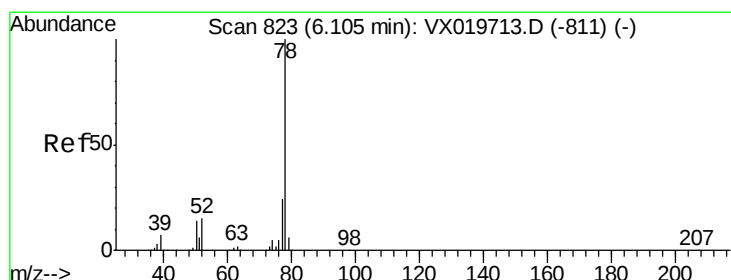
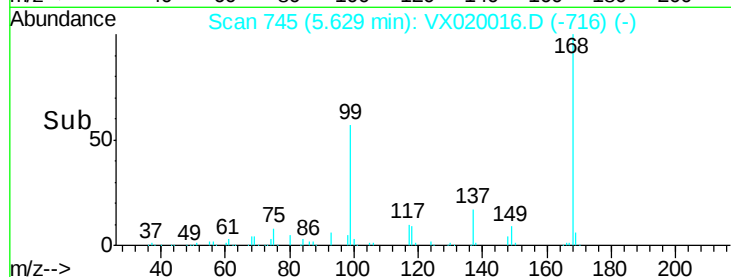
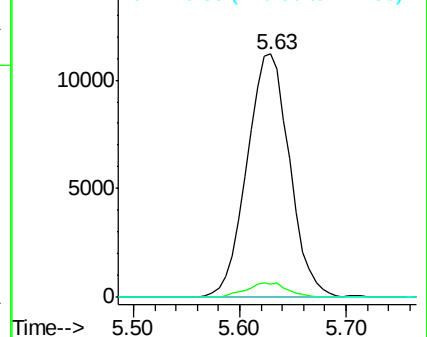
121 0.0 24.8 37.2#



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



#40

Benzene

Concen: 2.851 ug/l

RT: 6.10 min Scan# 823

Delta R.T. -0.00 min

Lab File: VX020016.D

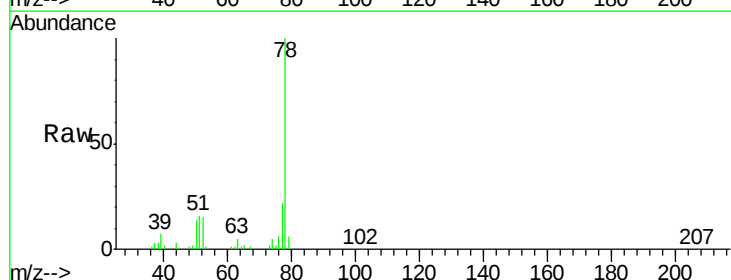
Acq: 15 Dec 2020 16:58

Tgt Ion: 78 Resp: 41341

Ion Ratio Lower Upper

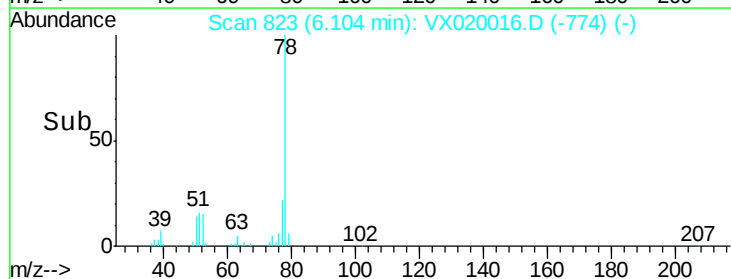
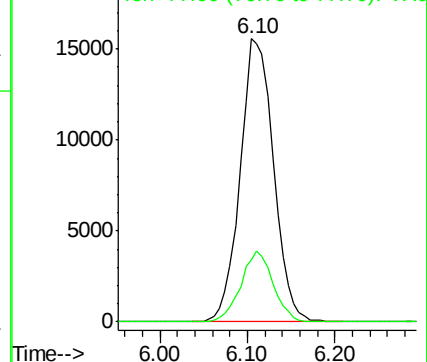
78 100

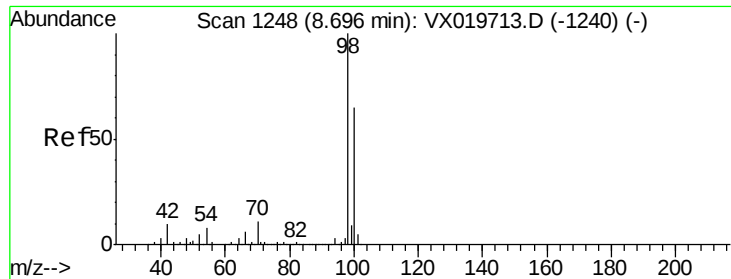
77 22.0 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 48.984 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

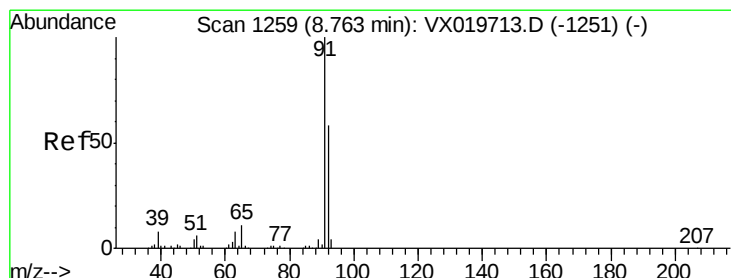
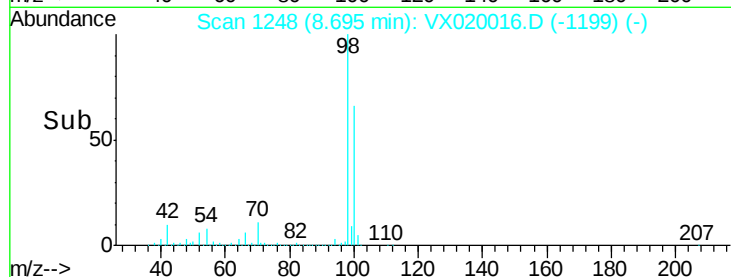
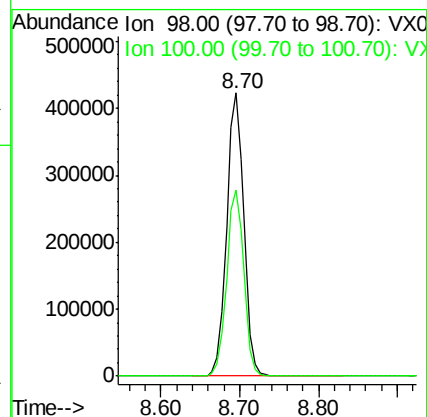
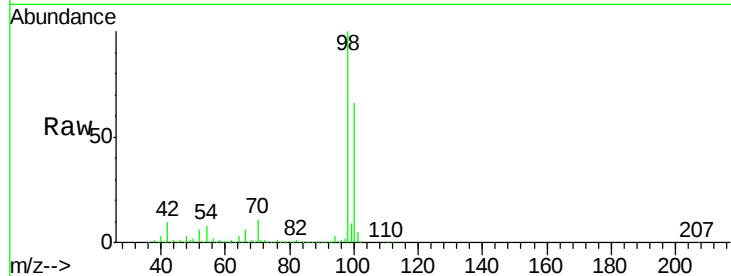
TU032-32-6029-121020

Tgt Ion: 98 Resp: 634832

Ion Ratio Lower Upper

98 100

100 65.9 51.9 77.9



#52

Toluene

Concen: 0.223 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX020016.D

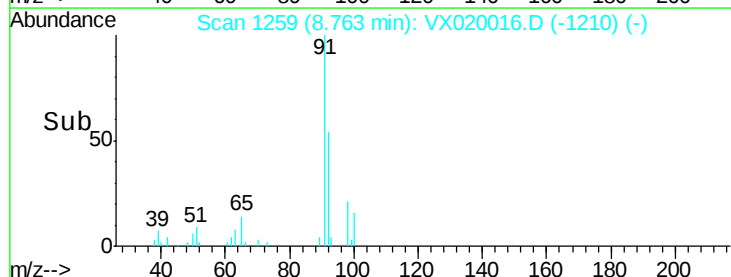
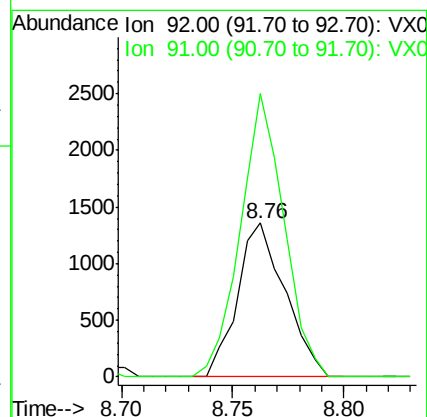
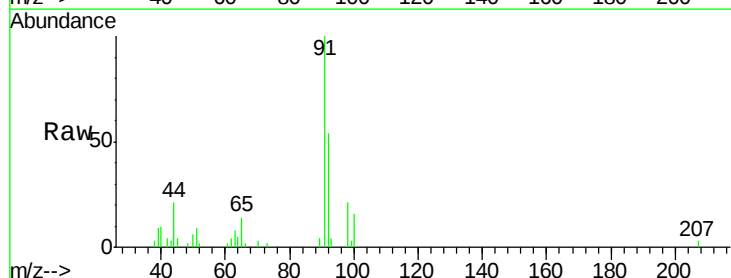
Acq: 15 Dec 2020 16:58

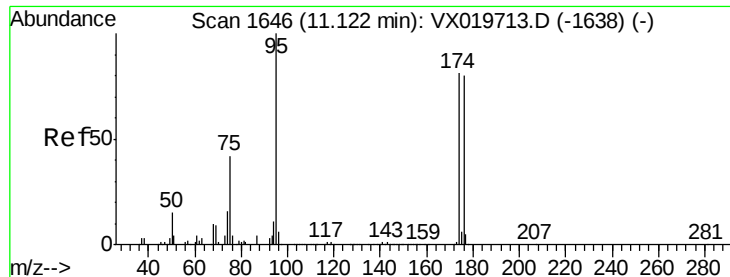
Tgt Ion: 92 Resp: 2019

Ion Ratio Lower Upper

92 100

91 169.1 137.1 205.7





#62

4-Bromofluorobenzene

Concen: 45.213 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6029-121020

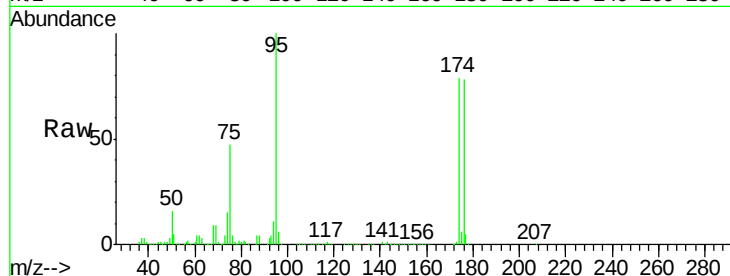
Tgt Ion: 95 Resp: 223021

Ion Ratio Lower Upper

95 100

174 75.5 0.0 154.6

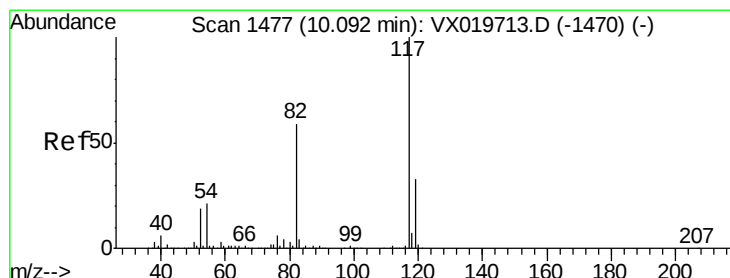
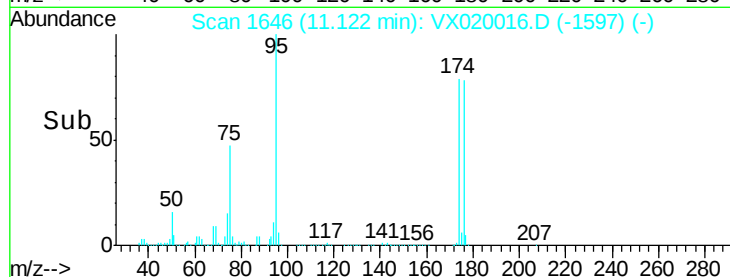
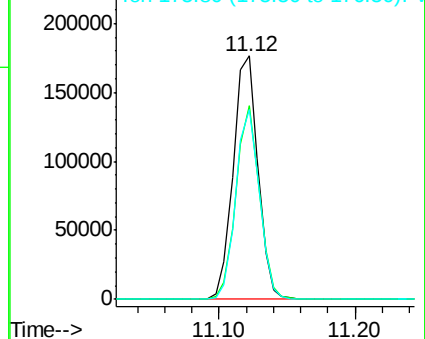
176 74.8 0.0 155.8



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. 0.01 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

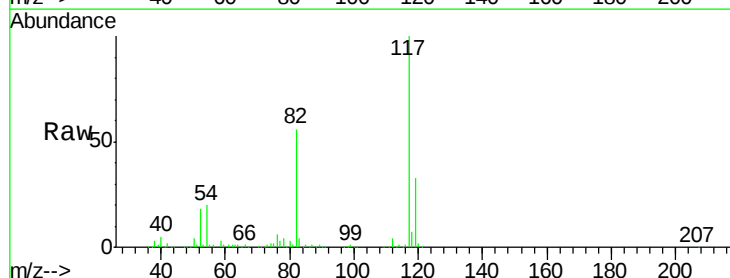
Tgt Ion: 117 Resp: 473370

Ion Ratio Lower Upper

117 100

82 56.2 47.4 71.2

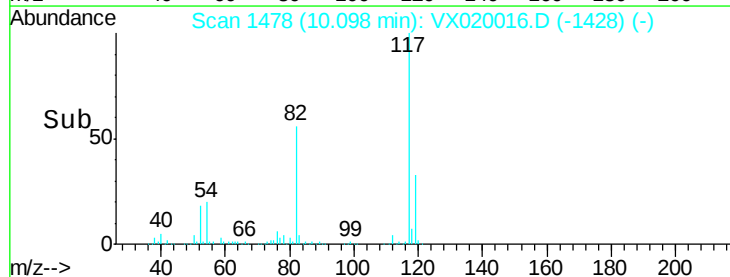
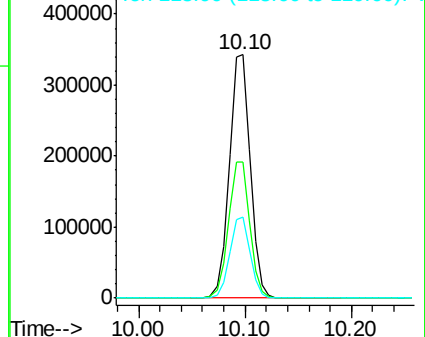
119 33.1 26.6 39.8

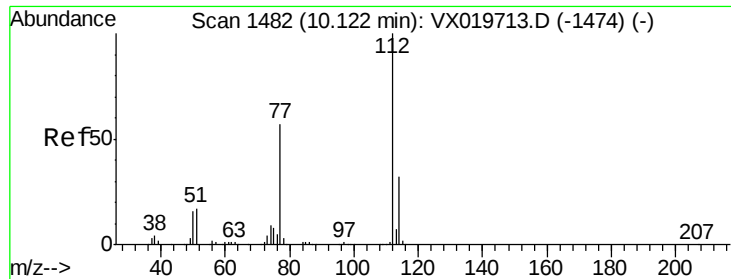


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

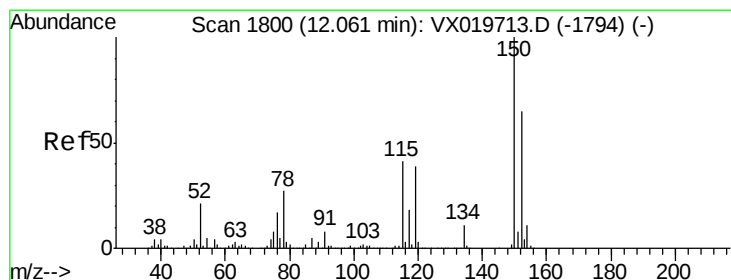
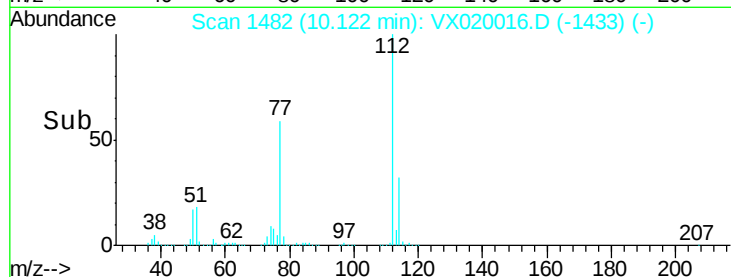
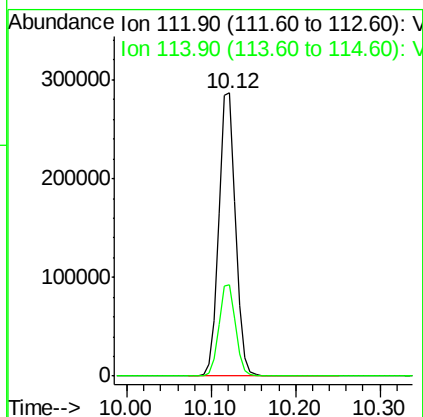
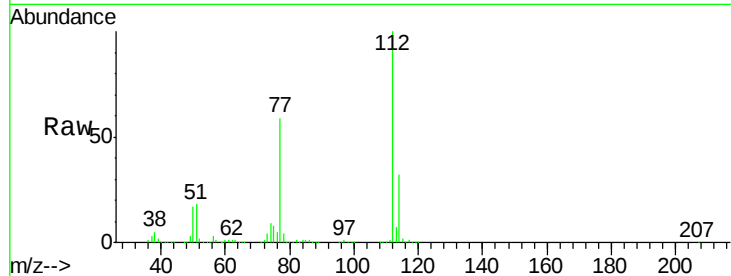




#65
Chlorobenzene
Concen: 41.991 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VX020016.D
Acq: 15 Dec 2020 16:58

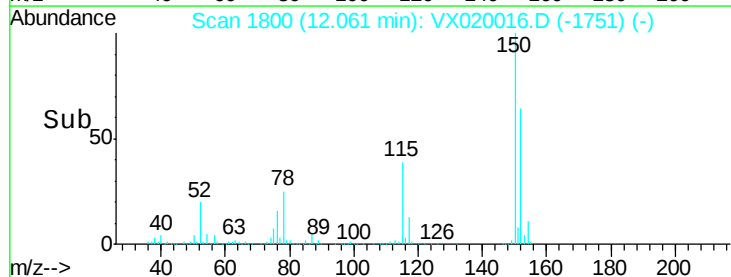
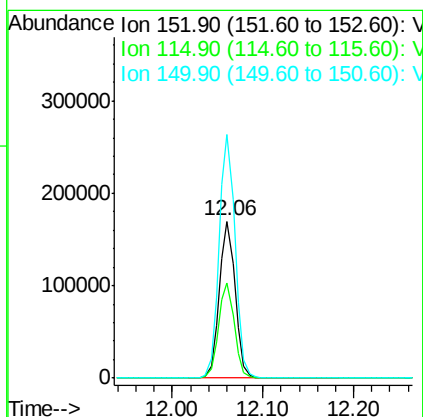
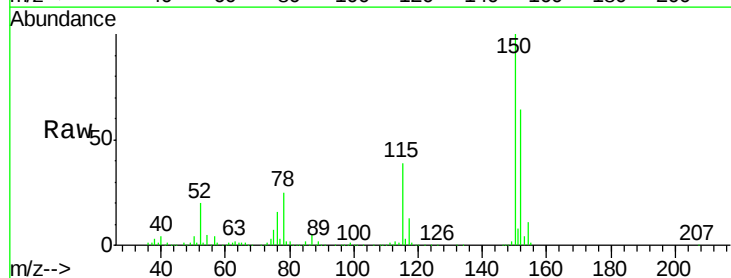
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6029-121020

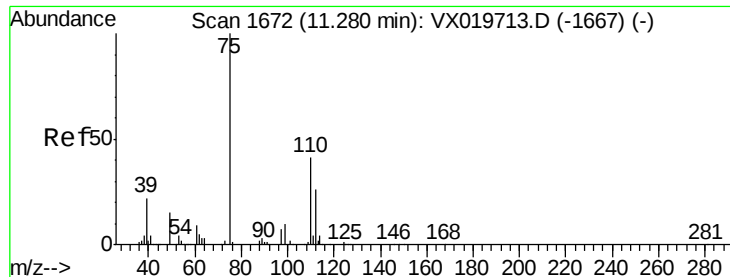
Tgt Ion:112 Resp: 396010
Ion Ratio Lower Upper
112 100
114 32.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020016.D
Acq: 15 Dec 2020 16:58

Tgt Ion:152 Resp: 207173
Ion Ratio Lower Upper
152 100
115 60.4 41.1 123.3
150 156.6 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.325 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

Instrument :

MSVOA_X

ClientSampleId :

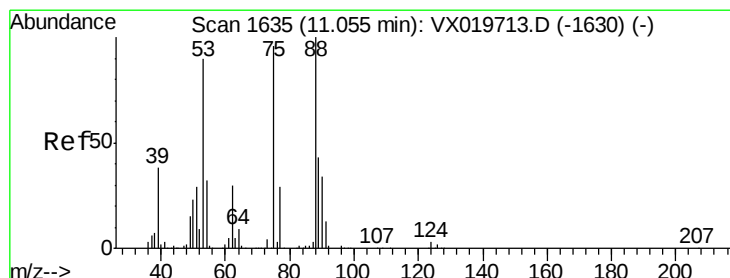
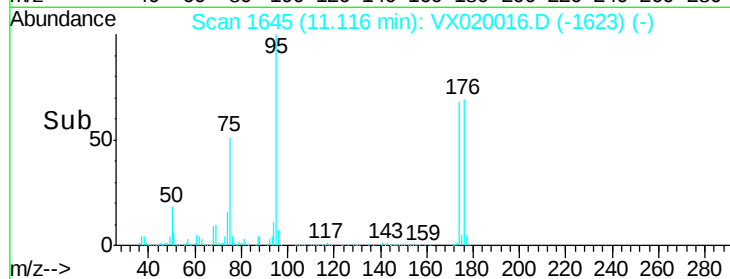
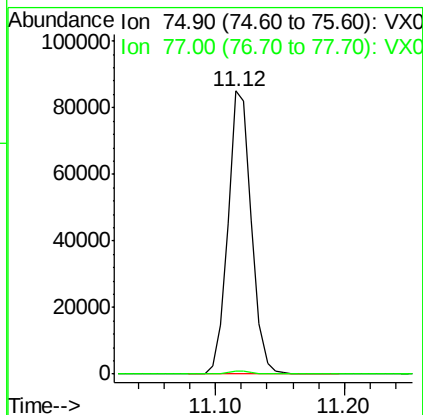
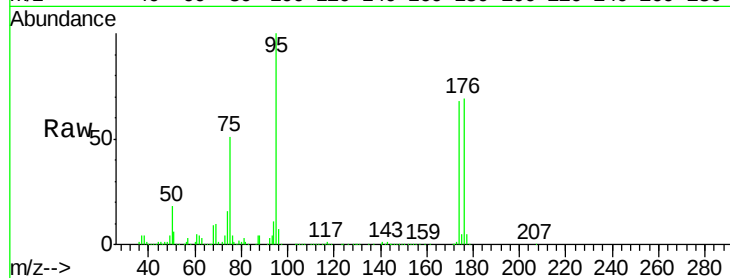
TU032-32-6029-121020

Tgt Ion: 75 Resp: 108379

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.427 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020016.D

Acq: 15 Dec 2020 16:58

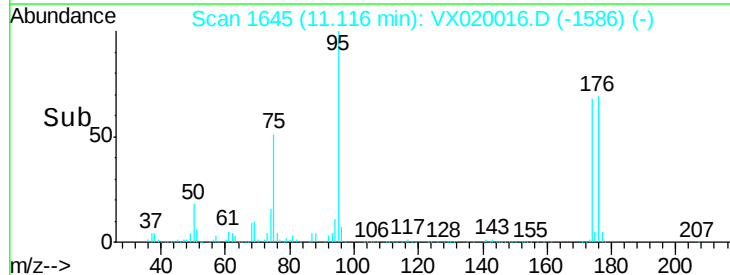
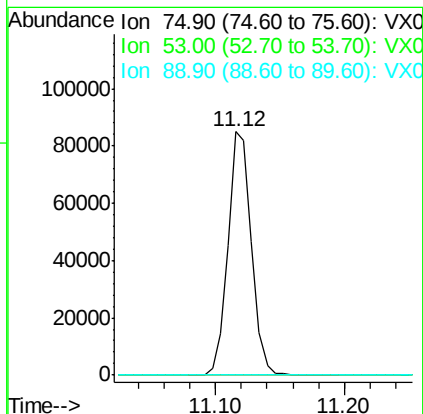
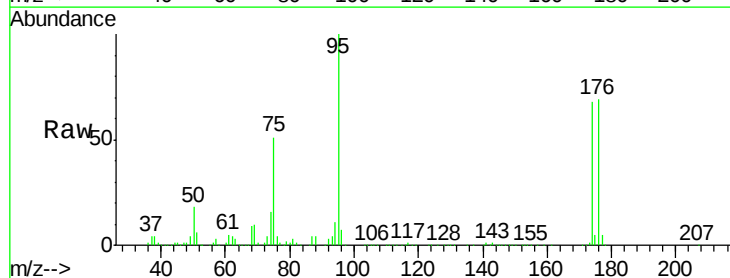
Tgt Ion: 75 Resp: 108379

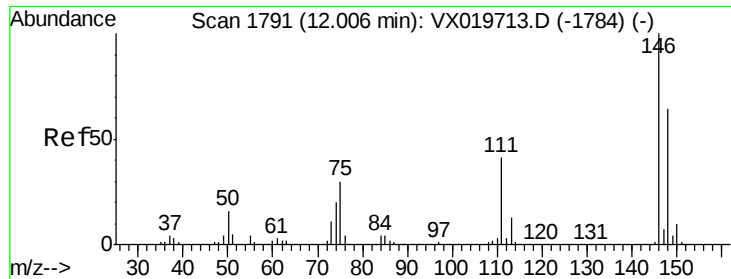
Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

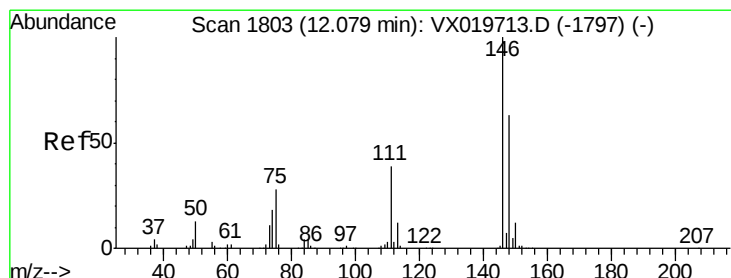
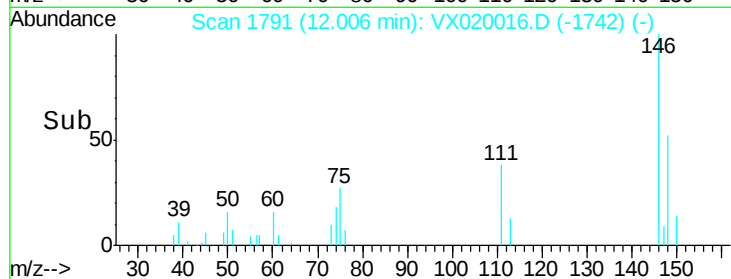
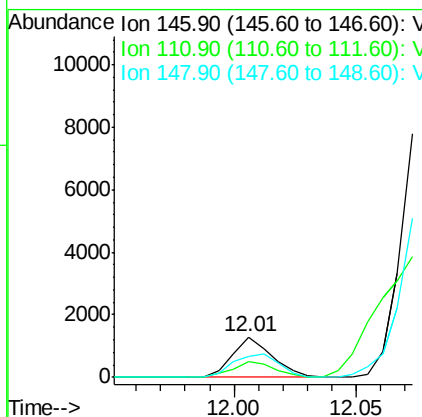
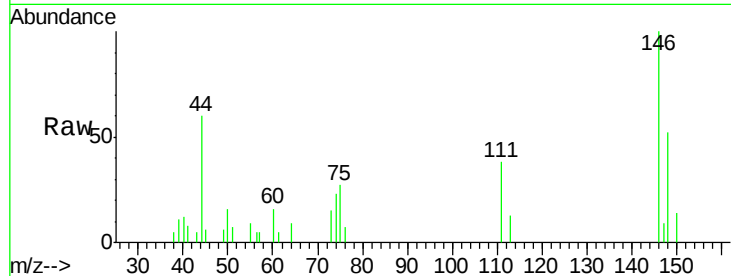




#87
 1,3-Dichlorobenzene
 Concen: 0.221 ug/l
 RT: 12.01 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX020016.D
 Acq: 15 Dec 2020 16:58

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6029-121020

Tgt Ion:146 Resp: 1469
 Ion Ratio Lower Upper
 146 100
 111 40.8 20.2 60.5
 148 65.8 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 2.011 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX020016.D
 Acq: 15 Dec 2020 16:58

Tgt Ion:146 Resp: 13617
 Ion Ratio Lower Upper
 146 100
 111 58.0 19.6 58.8
 148 67.2 31.6 95.0

