

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121720\
 Data File : VX020083.D
 Acq On : 16 Dec 2020 22:09
 Operator : JC/MD
 Sample : L5085-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6042-121120

Quant Time: Dec 17 00:34:06 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	5.62	168	293597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	497347	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	463637	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	196958	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	192589	49.91	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	99.82%	
35) Dibromofluoromethane		5.46	113	157433	48.98	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.96%	
50) Toluene-d8		8.70	98	599345	48.84	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.68%	
62) 4-Bromofluorobenzene		11.12	95	210743	45.12	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.24%	

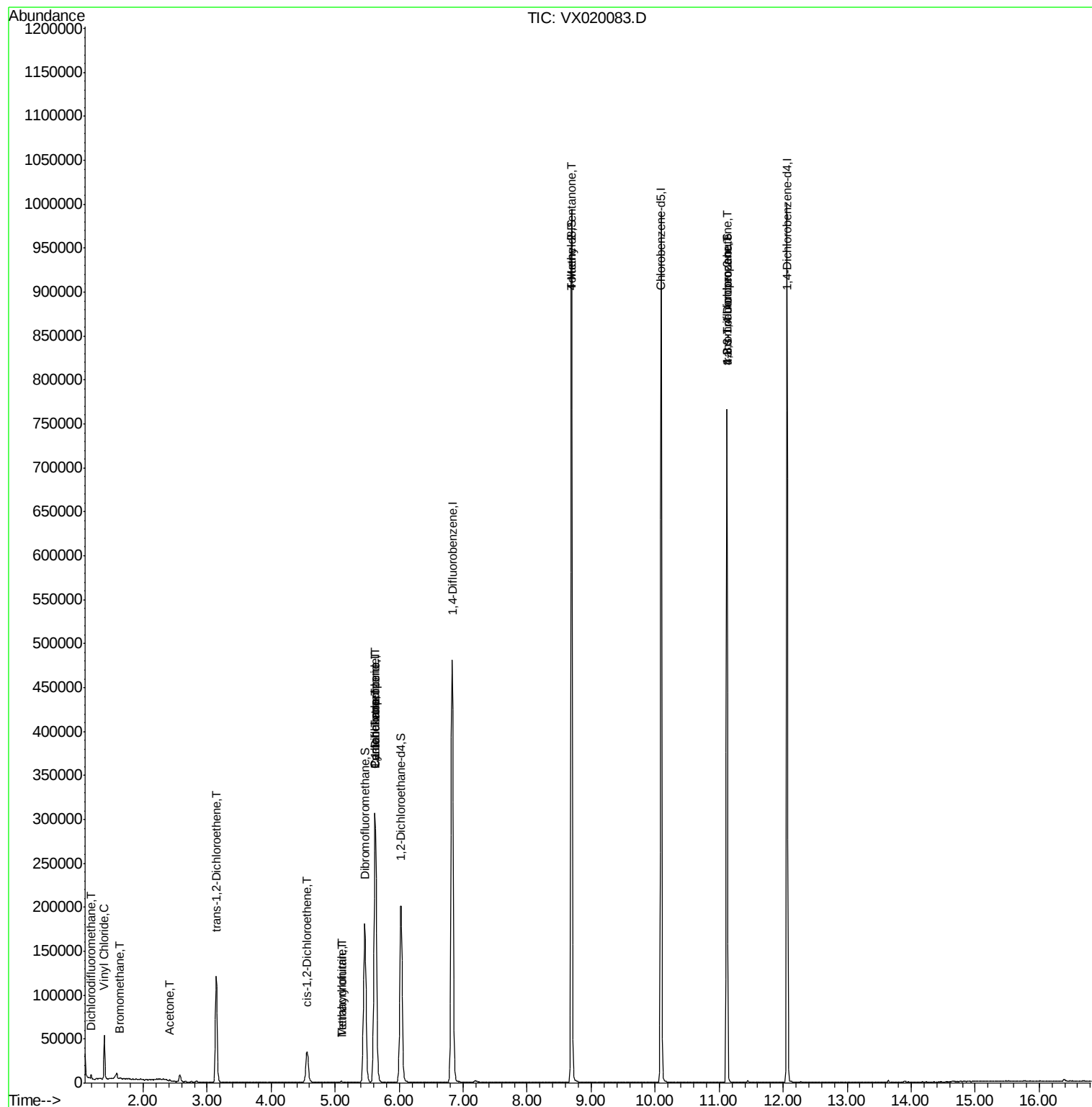
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1985	0.738	ug/l	94
4) Vinyl Chloride	1.39	62	29982	8.995	ug/l	99
5) Bromomethane	1.64	94	538	0.486	ug/l	85
11) Tert butyl alcohol	3.00	59	642	Below Cal	#	73
16) Acetone	2.42	43	1753	1.209	ug/l	95
20) Methylene Chloride	2.84	84	523	Below Cal		94
21) trans-1,2-Dichloroethene	3.14	96	51021	16.269	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	23227	6.329	ug/l	93
29) Tetrahydrofuran	5.10	42	905	0.630	ug/l #	86
31) Cyclohexane	5.62	56	5851	1.219	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22925	5.101	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29430	6.687	ug/l #	16
41) Methacrylonitrile	5.10	41	678	0.272	ug/l #	40
51) 4-Methyl-2-Pentanone	8.69	43	2533	0.562	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	101417	22.958	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	101417	66.369	ug/l #	12

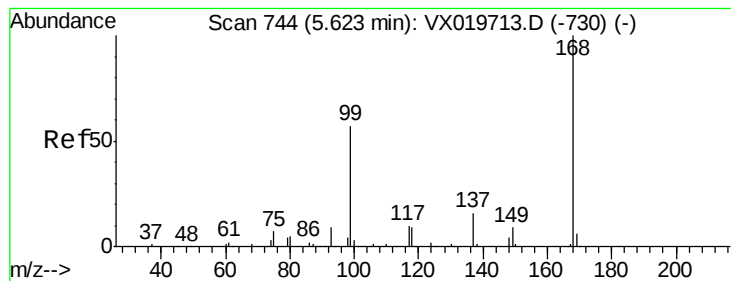
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
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: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

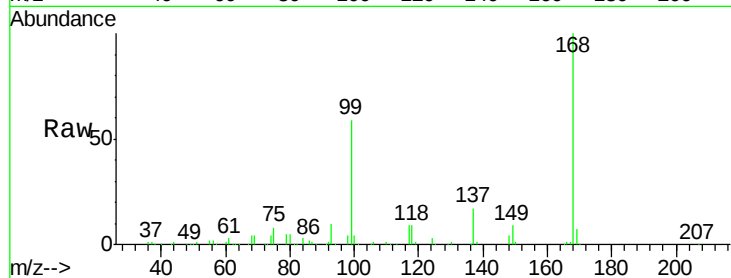
TU032-32-6042-121120

Tgt Ion:168 Resp: 293597

Ion Ratio Lower Upper

168 100

99 58.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

100000

80000

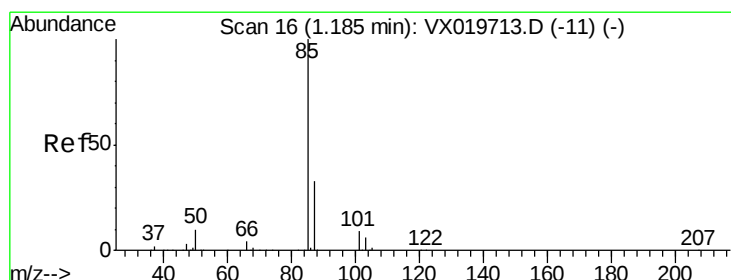
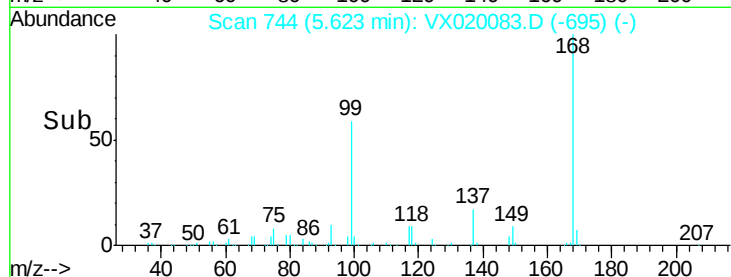
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.738 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX020083.D

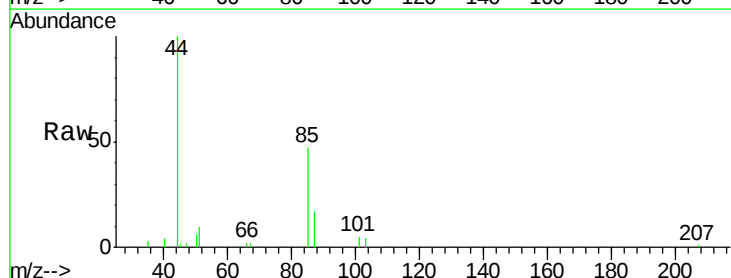
Acq: 16 Dec 2020 22:09

Tgt Ion: 85 Resp: 1985

Ion Ratio Lower Upper

85 100

87 36.1 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

2500

2000

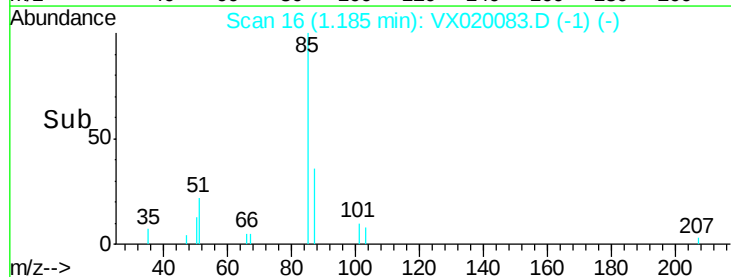
1500

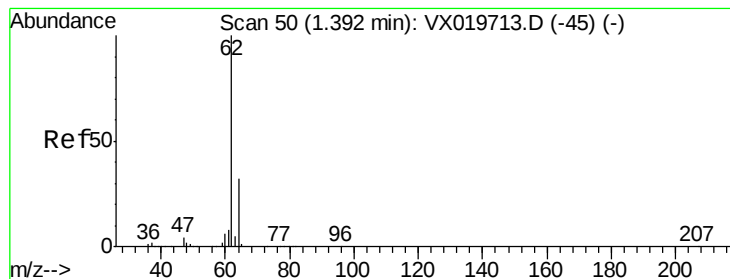
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 8.995 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

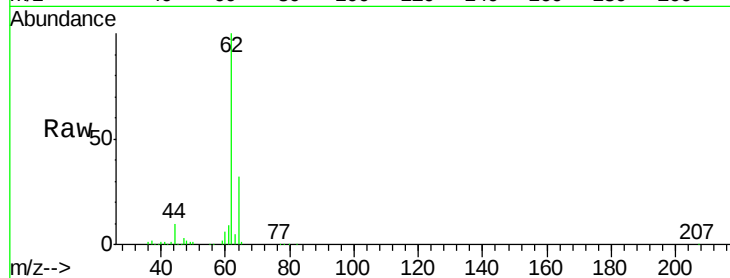
TU032-32-6042-121120

Tgt Ion: 62 Resp: 29982

Ion Ratio Lower Upper

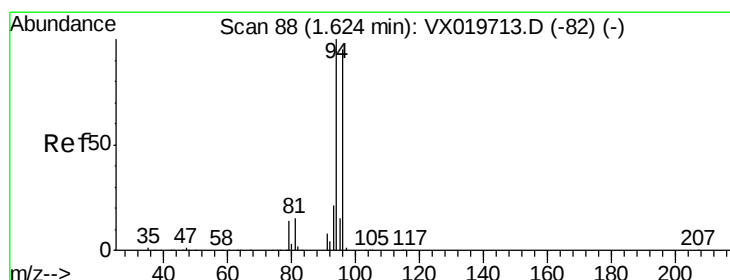
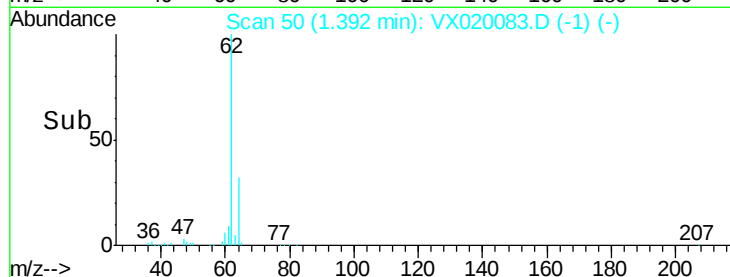
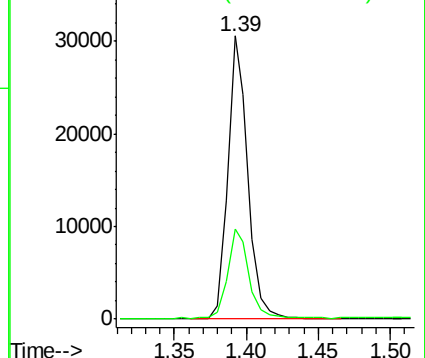
62 100

64 31.7 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: 0.486 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020083.D

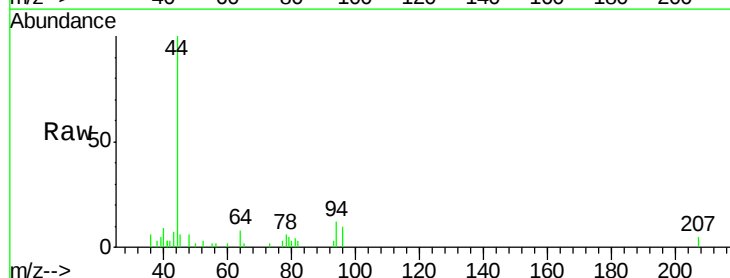
Acq: 16 Dec 2020 22:09

Tgt Ion: 94 Resp: 538

Ion Ratio Lower Upper

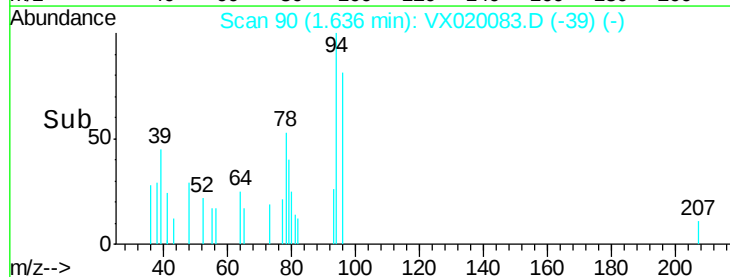
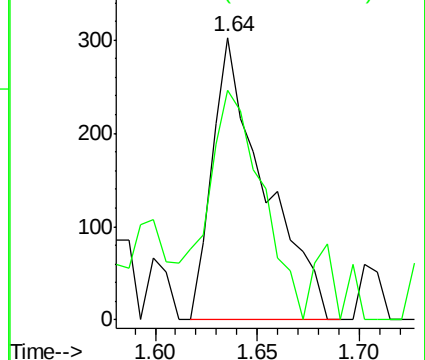
94 100

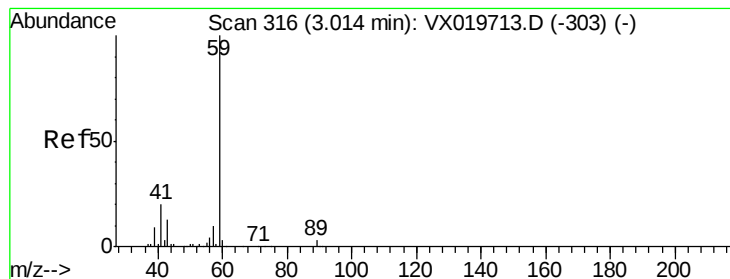
96 81.2 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



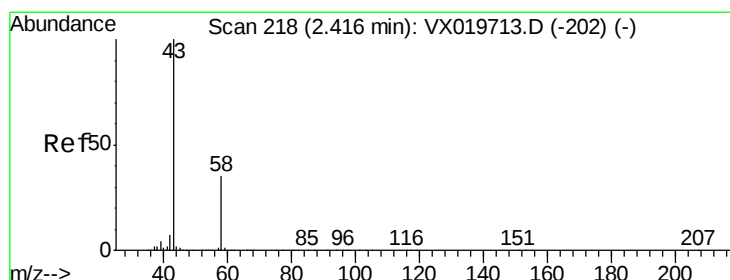
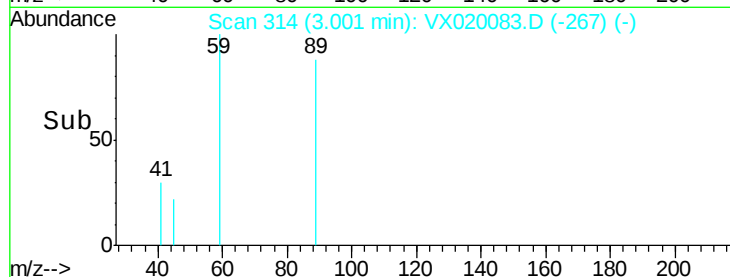
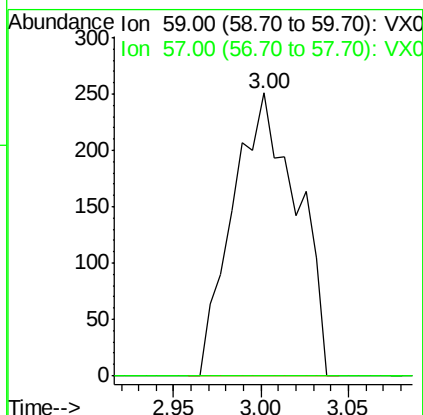
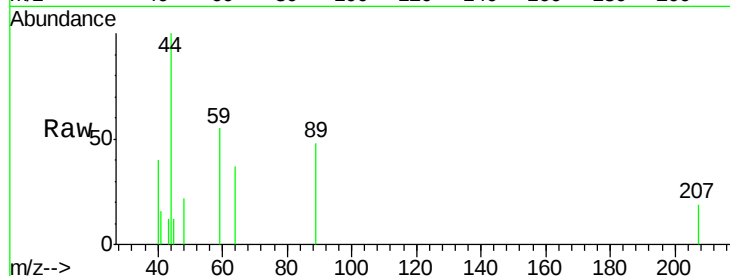


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6042-121120

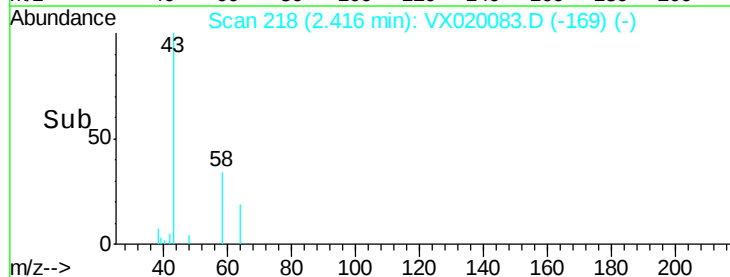
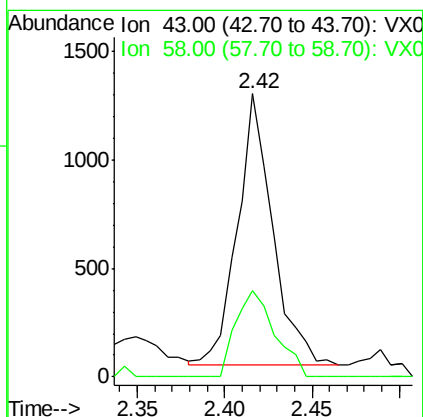
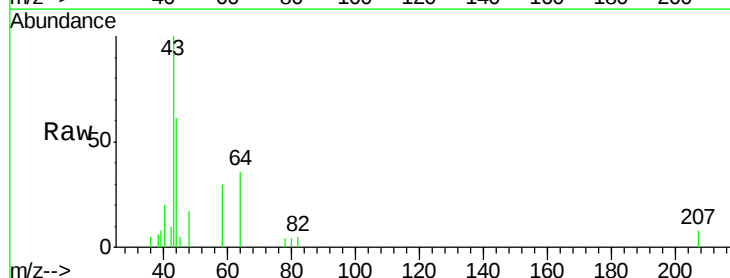
Tgt Ion: 59 Resp: 642
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

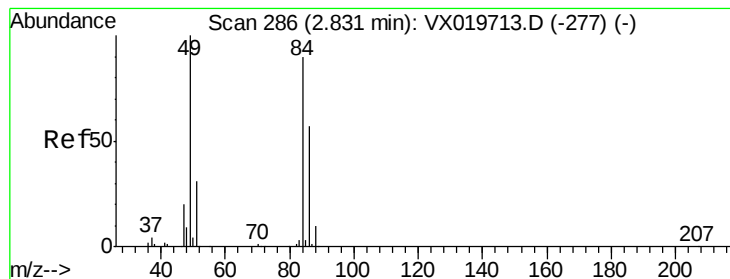


#16

Acetone
Concen: 1.209 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.00 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
58 31.7 27.8 41.8





#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6042-121120

Tgt Ion: 84 Resp: 523

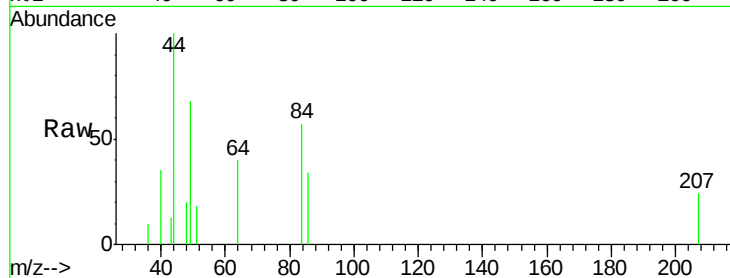
Ion Ratio Lower Upper

84 100

49 118.9 88.6 132.8

51 30.5 27.0 40.6

86 60.1 50.3 75.5

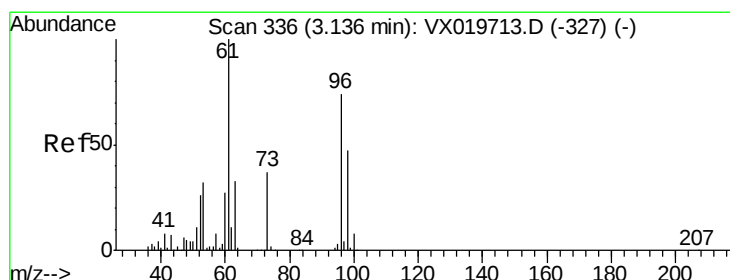
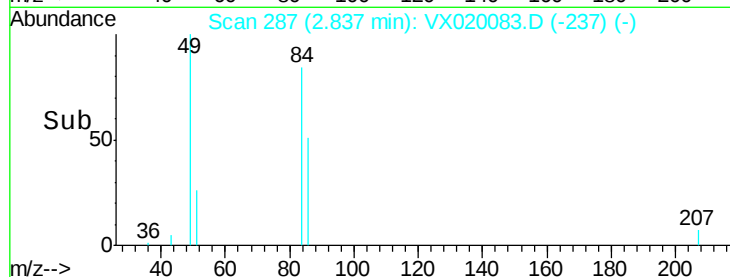
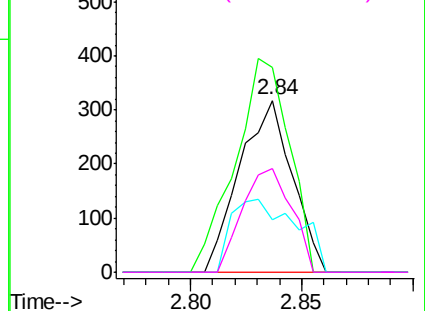


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 16.269 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

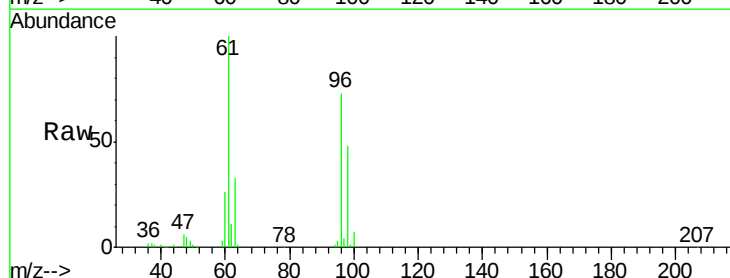
Tgt Ion: 96 Resp: 51021

Ion Ratio Lower Upper

96 100

61 136.4 107.7 161.5

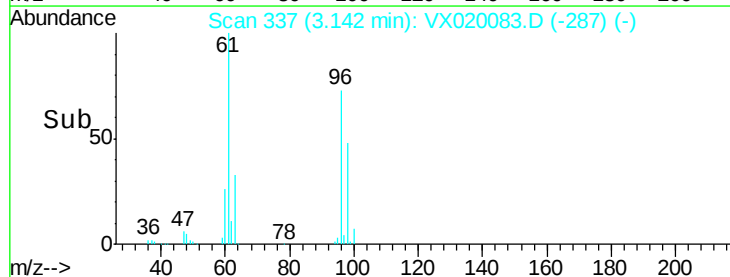
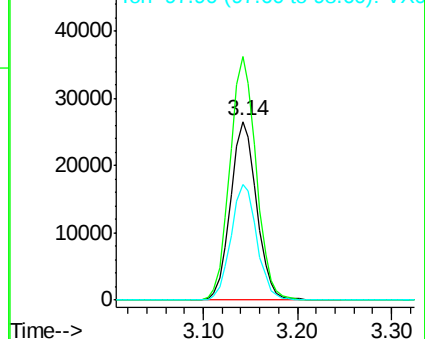
98 64.9 50.4 75.6

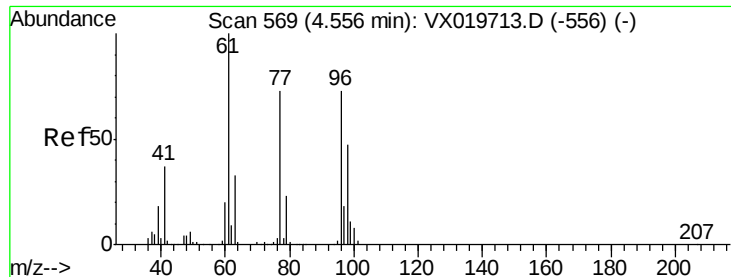


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 6.329 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6042-121120

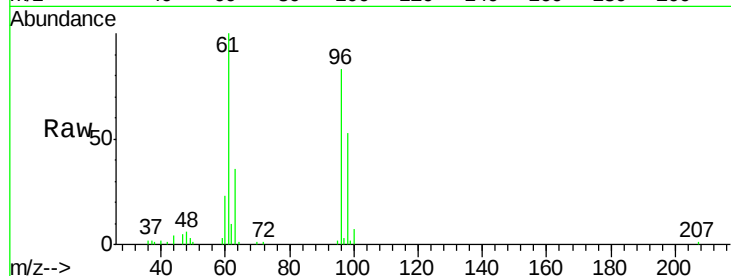
Tgt Ion: 96 Resp: 23227

Ion Ratio Lower Upper

96 100

61 130.4 0.0 285.6

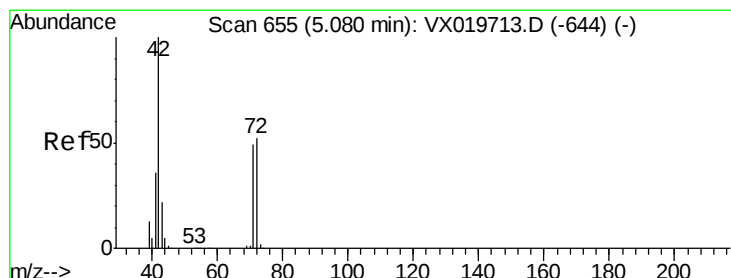
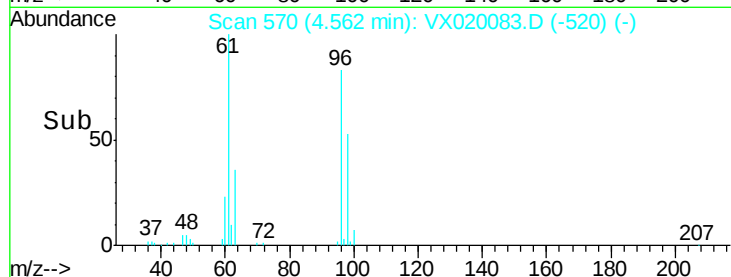
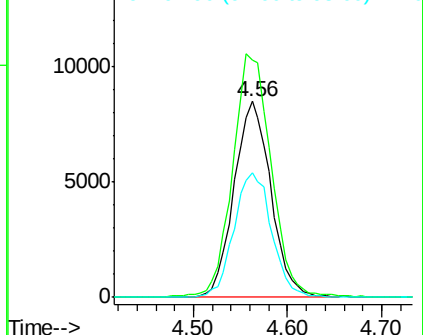
98 65.0 0.0 129.6



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



#29

Tetrahydrofuran

Concen: 0.630 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.02 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

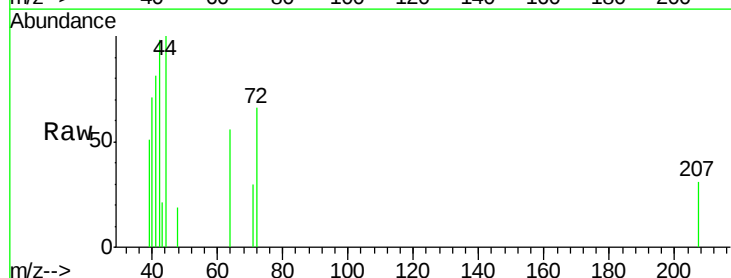
Tgt Ion: 42 Resp: 905

Ion Ratio Lower Upper

42 100

72 46.5 41.7 62.5

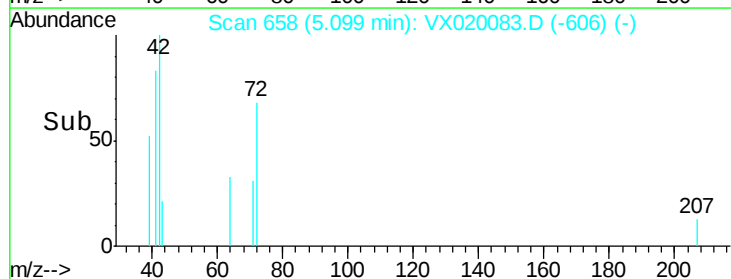
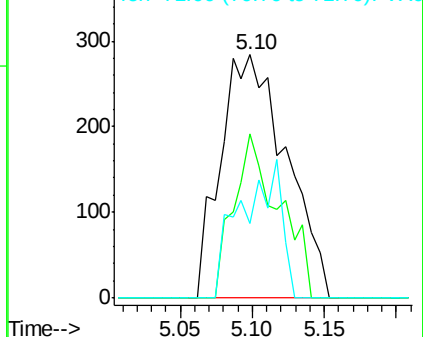
71 34.8 38.4 57.6#

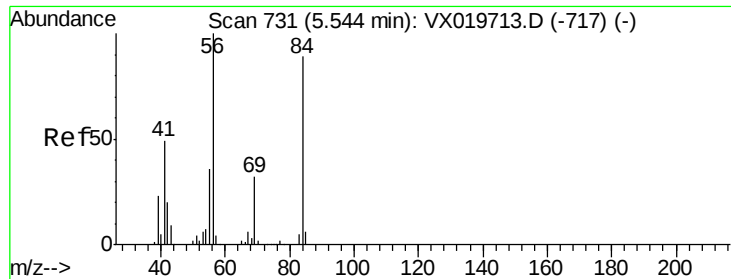


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

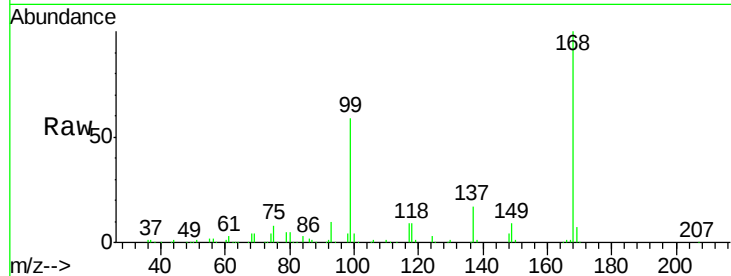




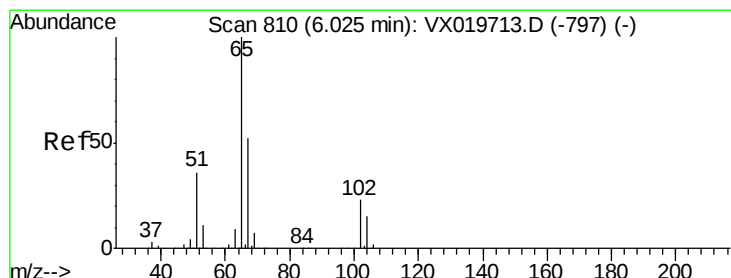
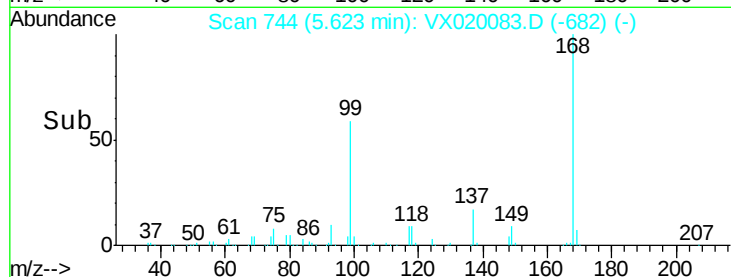
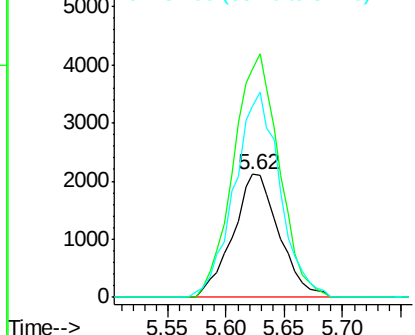
#31
Cyclohexane
Concen: 1.219 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

Instrument :
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TU032-32-6042-121120

Tgt Ion: 56 Resp: 5851
Ion Ratio Lower Upper
56 100
69 185.8 25.3 37.9#
84 155.7 71.4 107.0#

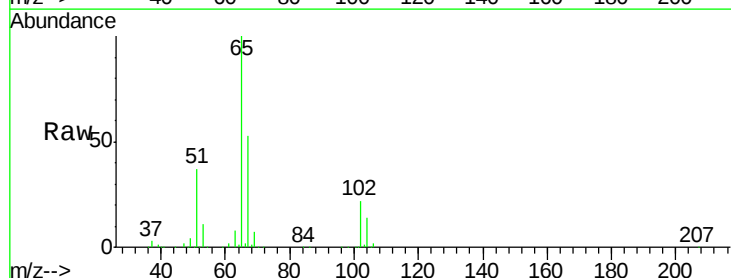


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

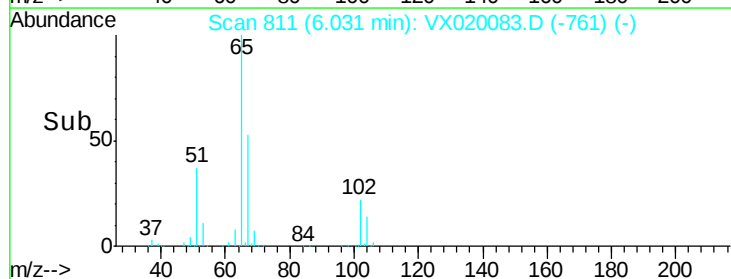
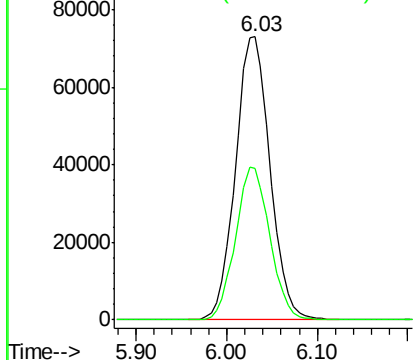


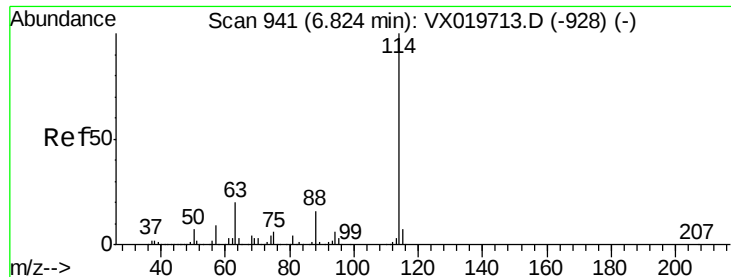
#33
1,2-Dichloroethane-d4
Concen: 49.910 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

Tgt Ion: 65 Resp: 192589
Ion Ratio Lower Upper
65 100
67 53.7 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: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6042-121120

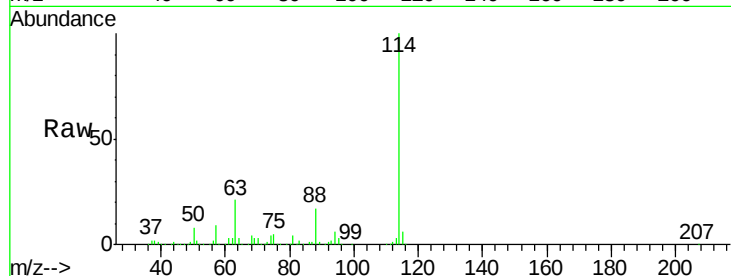
Tgt Ion:114 Resp: 497347

Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.8

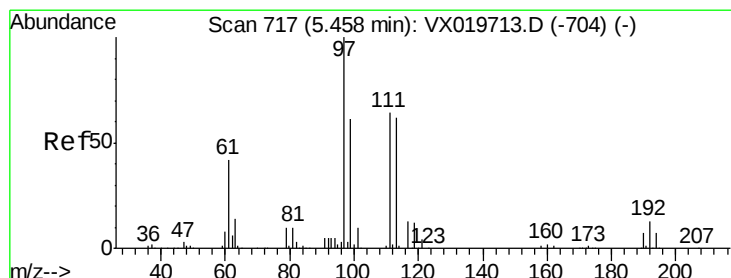
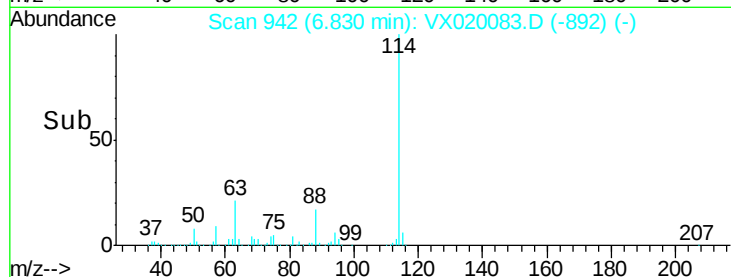
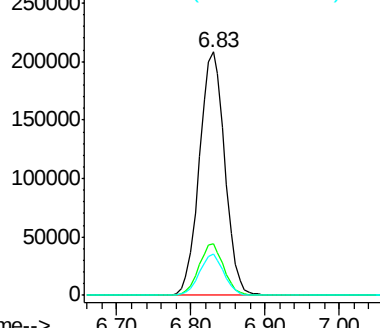
88 16.9 0.0 32.8



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: 48.979 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

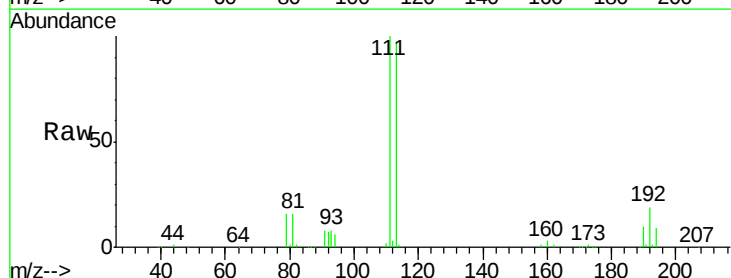
Tgt Ion:113 Resp: 157433

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

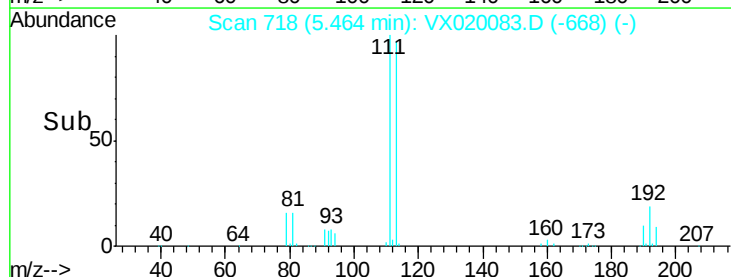
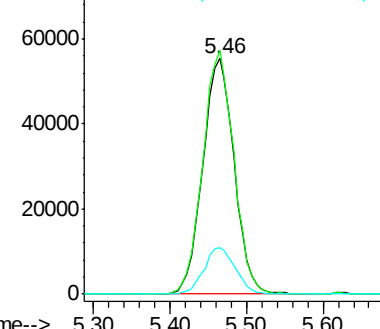
192 19.8 16.7 25.1

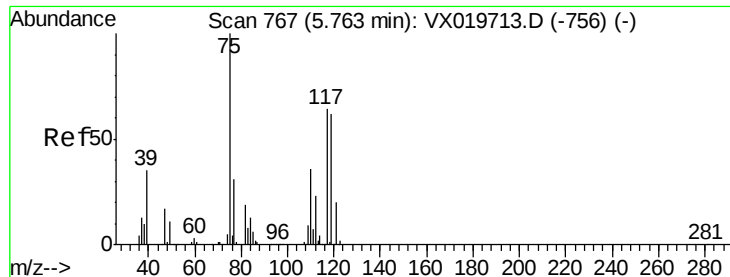


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.101 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6042-121120

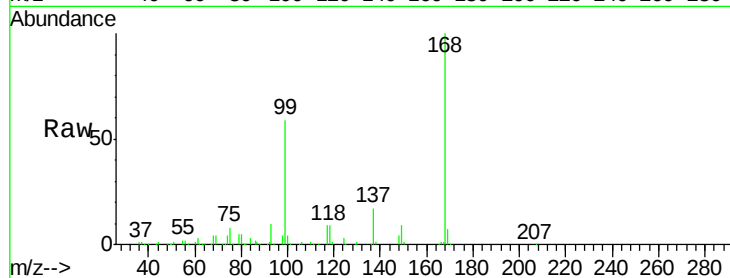
Tgt Ion: 75 Resp: 22925

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

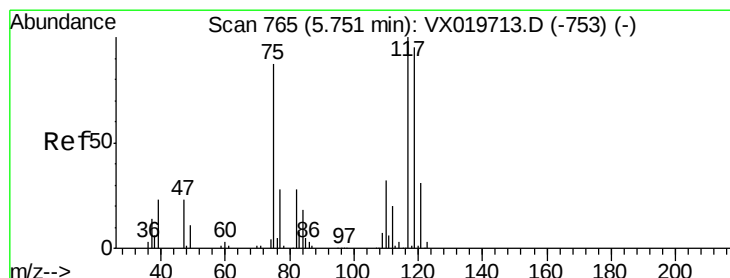
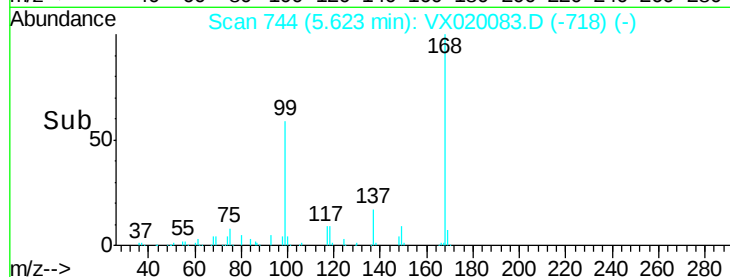
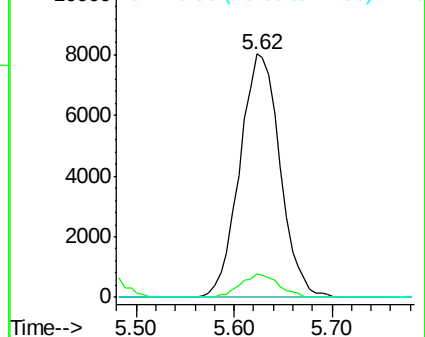
77 0.0 25.3 37.9#



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: 6.687 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

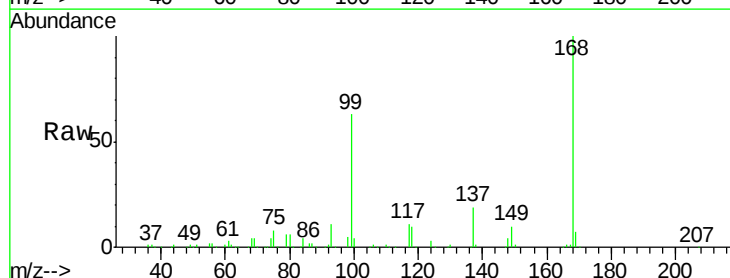
Tgt Ion: 117 Resp: 29430

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

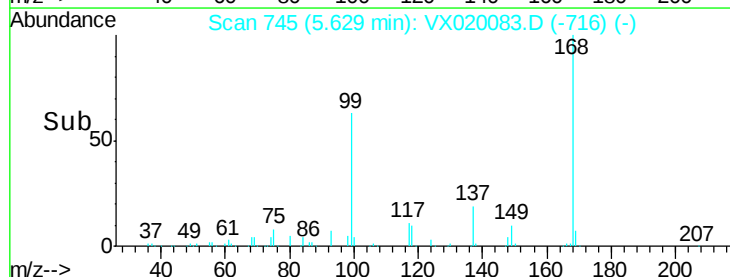
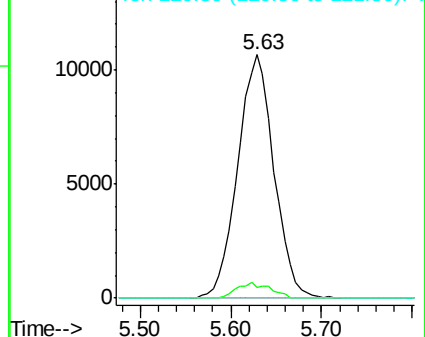
121 0.0 24.8 37.2#

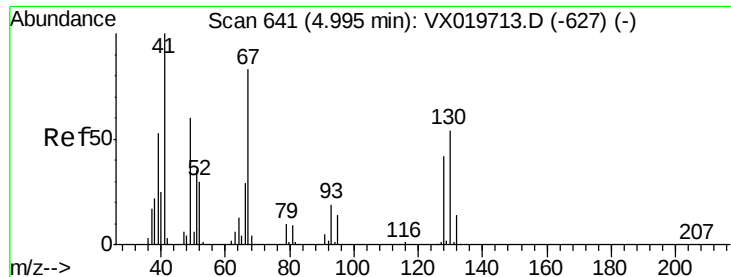


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.272 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6042-121120

Tgt Ion: 41 Resp: 678

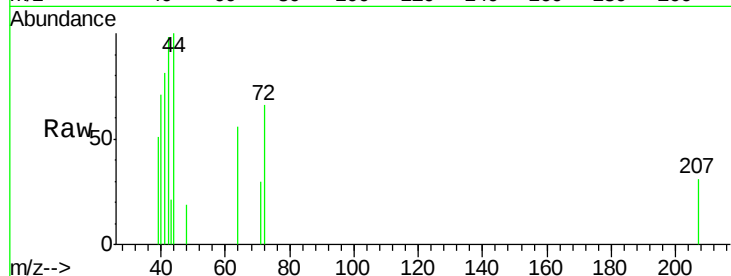
Ion Ratio Lower Upper

41 100

39 43.5 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

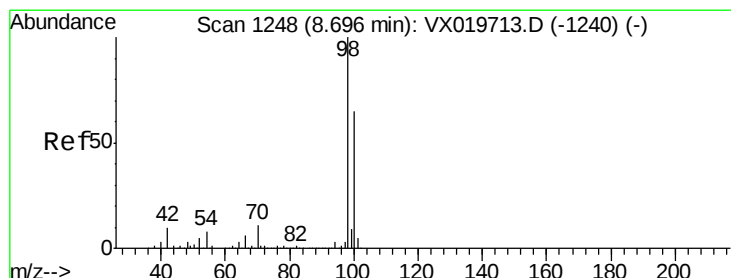
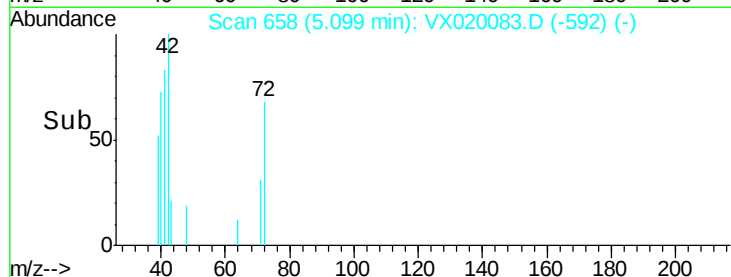
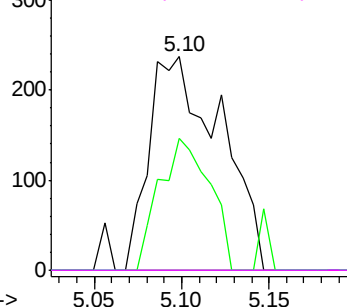


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#50

Toluene-d8

Concen: 48.841 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX020083.D

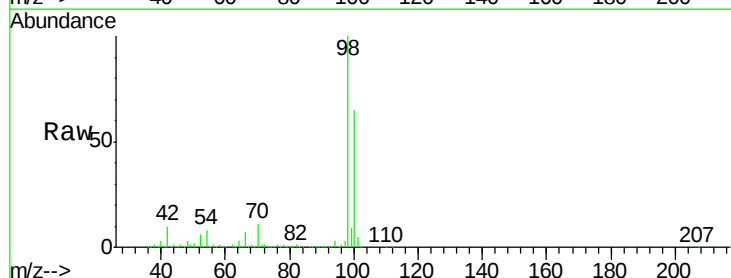
Acq: 16 Dec 2020 22:09

Tgt Ion: 98 Resp: 599345

Ion Ratio Lower Upper

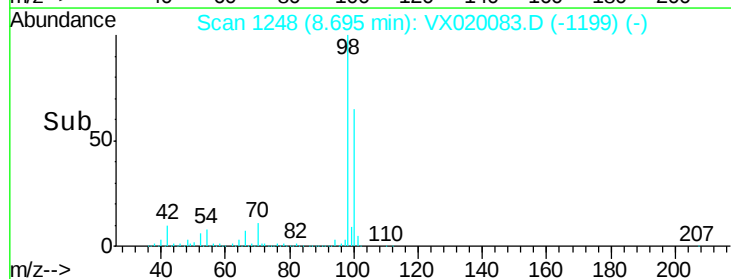
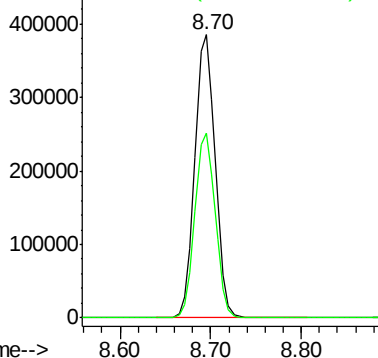
98 100

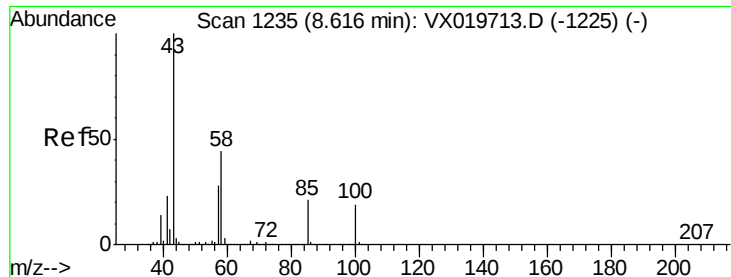
100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

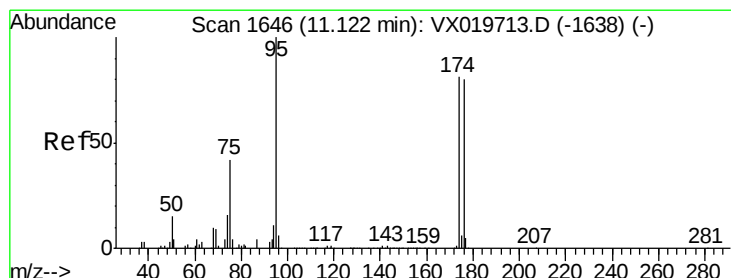
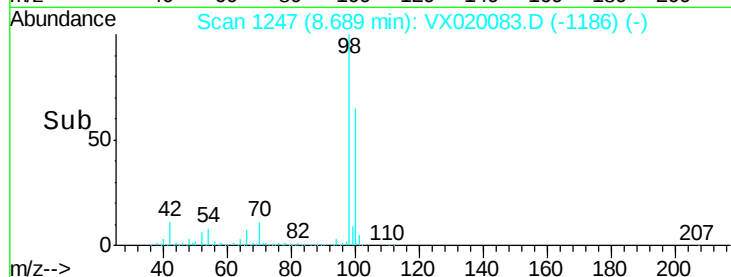
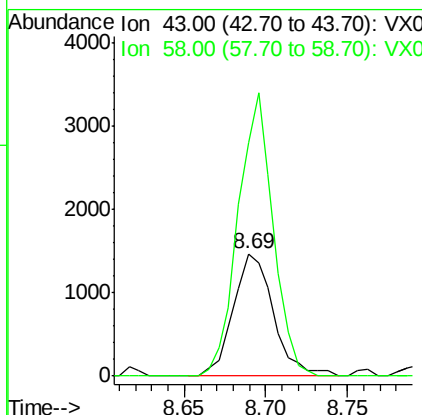
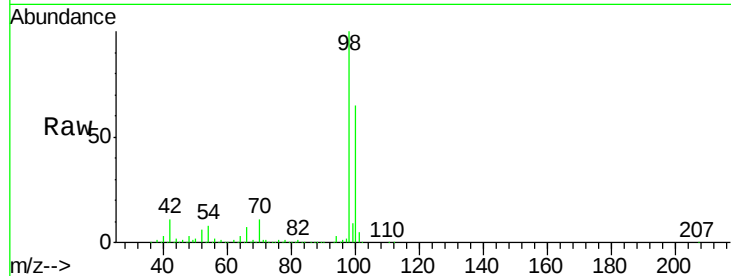




#51
 4-Methyl-2-Pentanone
 Concen: 0.562 ug/l
 RT: 8.69 min Scan# 1247
 Delta R.T. 0.07 min
 Lab File: VX020083.D
 Acq: 16 Dec 2020 22:09

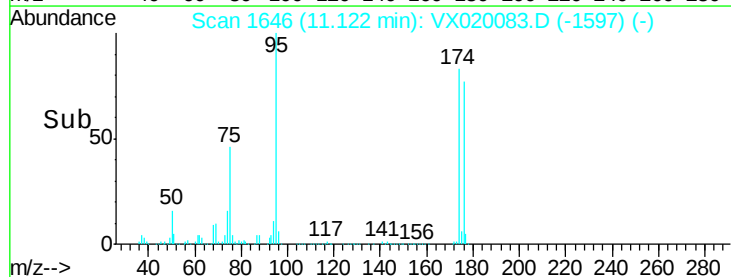
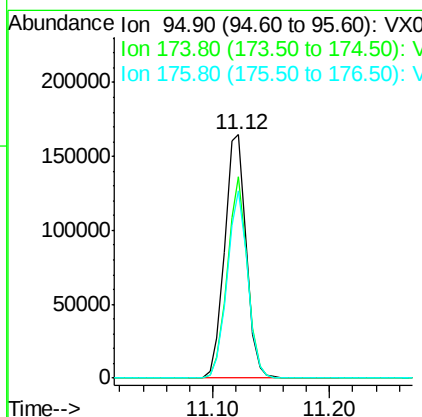
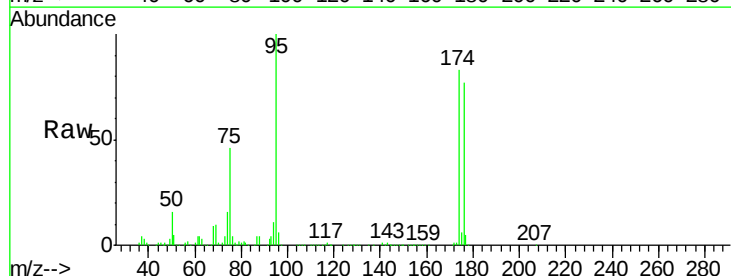
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6042-121120

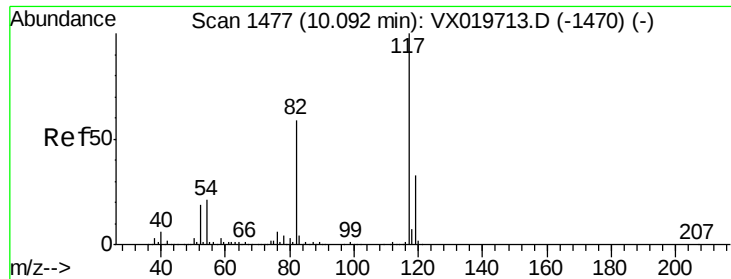
Tgt Ion: 43 Resp: 2533
 Ion Ratio Lower Upper
 43 100
 58 200.1 35.4 53.0#



#62
 4-Bromofluorobenzene
 Concen: 45.121 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VX020083.D
 Acq: 16 Dec 2020 22:09

Tgt Ion: 95 Resp: 210743
 Ion Ratio Lower Upper
 95 100
 174 76.9 0.0 154.6
 176 73.5 0.0 155.8

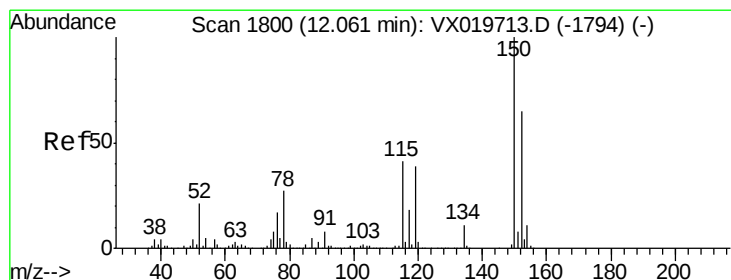
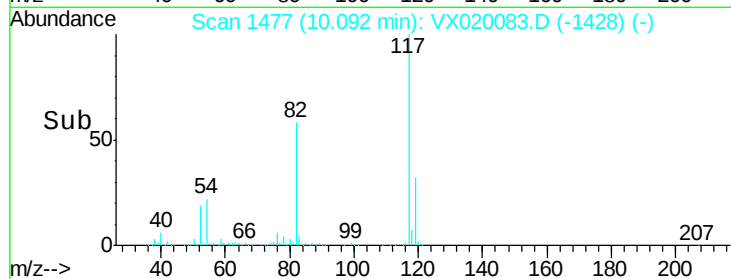
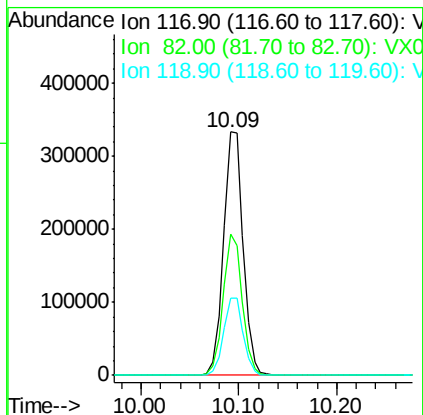
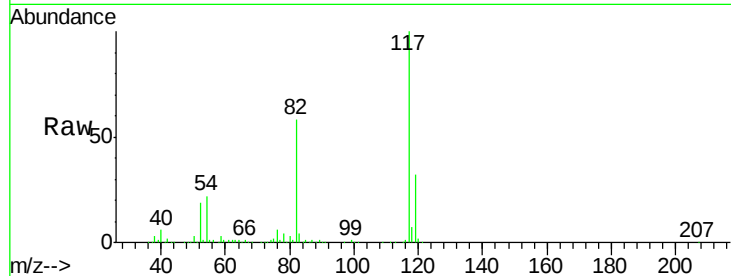




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

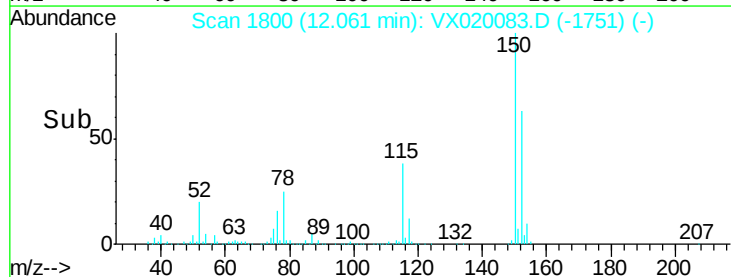
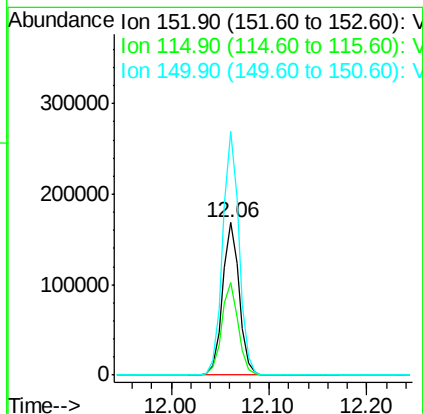
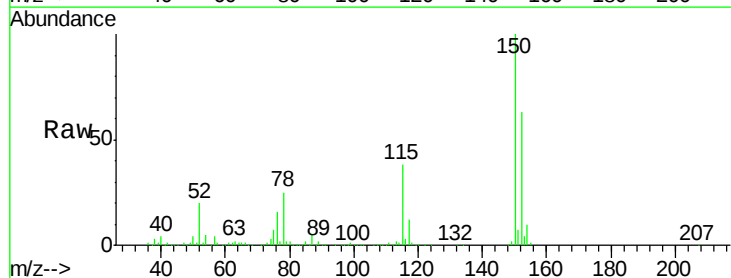
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6042-121120

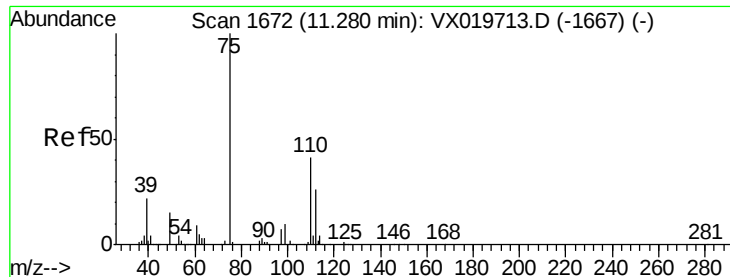
Tgt Ion:117 Resp: 463637
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.2
119 31.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX020083.D
Acq: 16 Dec 2020 22:09

Tgt Ion:152 Resp: 196958
Ion Ratio Lower Upper
152 100
115 60.3 41.1 123.3
150 158.3 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 22.958 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

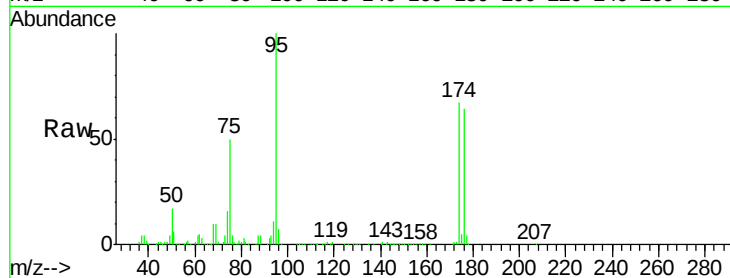
TU032-32-6042-121120

Tgt Ion: 75 Resp: 101417

Ion Ratio Lower Upper

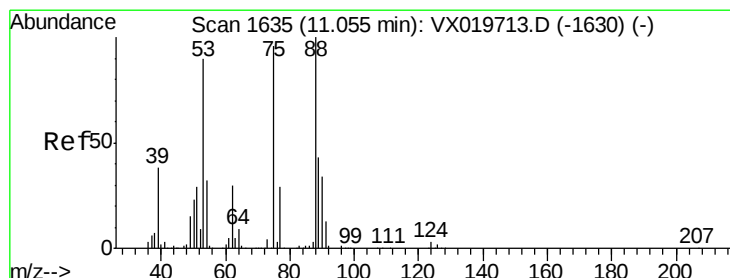
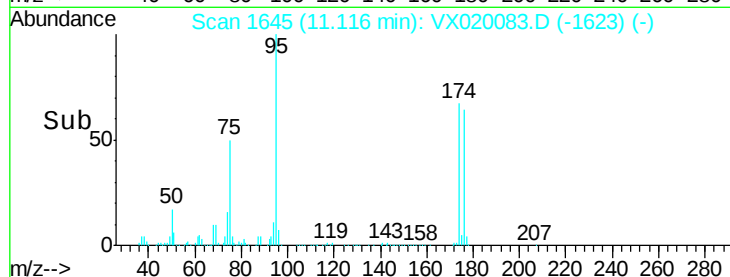
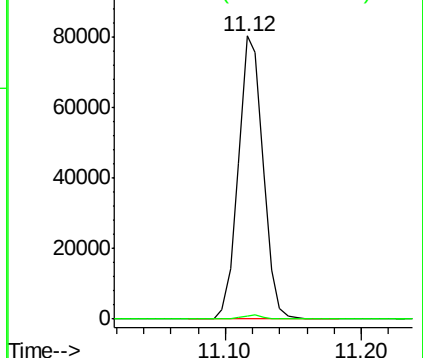
75 100

77 1.4 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: 66.369 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020083.D

Acq: 16 Dec 2020 22:09

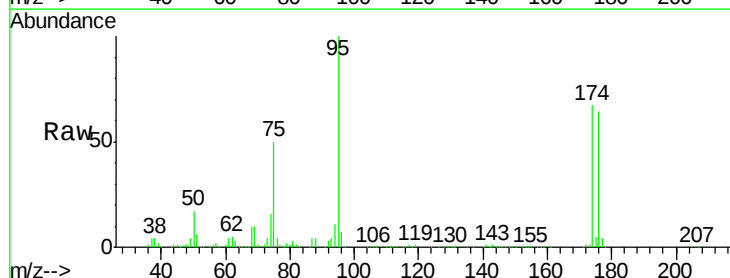
Tgt Ion: 75 Resp: 101417

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



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

