

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020015.D
 Acq On : 15 Dec 2020 16:35
 Operator : JC/MD
 Sample : L5052-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5076-121020

Quant Time: Dec 16 00:26:12 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	313473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	522080	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	476760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211080	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	199659	48.46	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	96.92%	
35) Dibromofluoromethane		5.46	113	165255	48.98	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.96%	
50) Toluene-d8		8.70	98	636860	49.44	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.88%	
62) 4-Bromofluorobenzene		11.12	95	224754	45.84	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.68%	

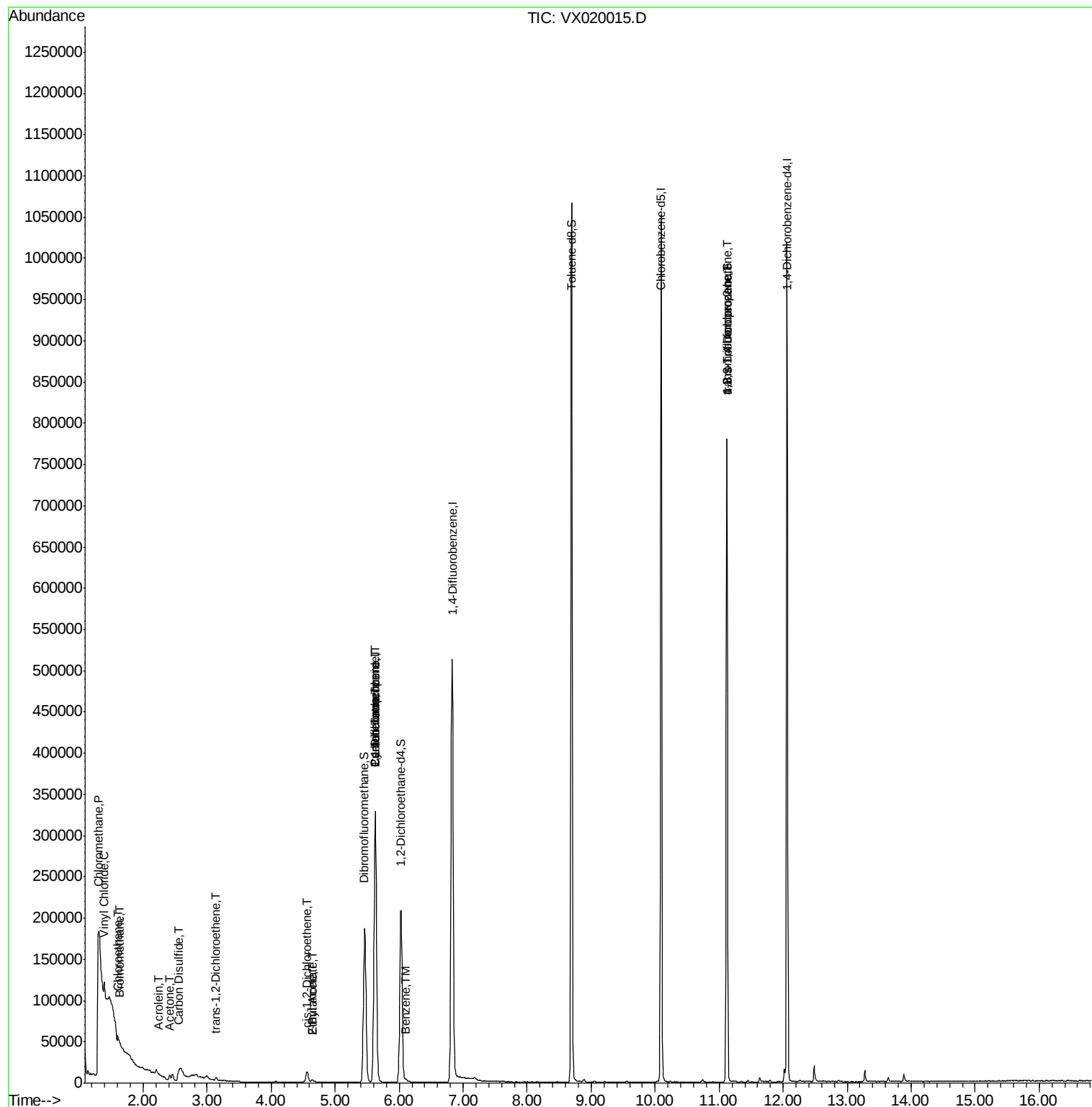
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	11251	3.333	ug/l #	46
4) Vinyl Chloride	1.39	62	9752	2.740	ug/l #	68
5) Bromomethane	1.64	94	410	0.347	ug/l	83
6) Chloroethane	1.61	64	40420	18.906	ug/l #	55
11) Tert butyl alcohol	3.00	59	2192	Below Cal	#	73
13) Acrolein	2.25	56	277	0.609	ug/l	99
16) Acetone	2.42	43	6009	3.880	ug/l	96
17) Carbon Disulfide	2.55	76	15045	1.826	ug/l	98
20) Methylene Chloride	2.84	84	562	Below Cal	#	82
21) trans-1,2-Dichloroethene	3.14	96	1401	0.418	ug/l #	81
25) 2-Butanone	4.64	43	1360	0.572	ug/l	91
27) cis-1,2-Dichloroethene	4.56	96	7994	2.040	ug/l	97
31) Cyclohexane	5.62	56	6052	1.181	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23834	5.052	ug/l #	48
37) Ethyl Acetate	4.64	43	1360	0.286	ug/l #	64
38) Carbon Tetrachloride	5.63	117	31267	6.768	ug/l #	17
40) Benzene	6.10	78	3468	0.241	ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	109055	23.036	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	109055	66.592	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
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

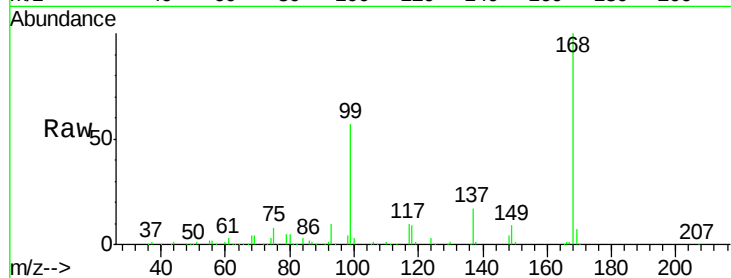
TU032-32-5076-121020

Tgt Ion:168 Resp: 313473

Ion Ratio Lower Upper

168 100

99 57.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

60000

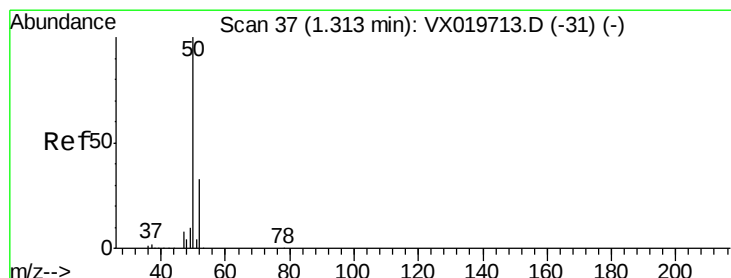
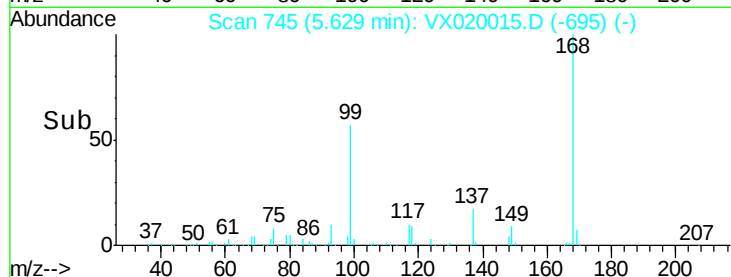
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 3.333 ug/l

RT: 1.31 min Scan# 36

Delta R.T. -0.01 min

Lab File: VX020015.D

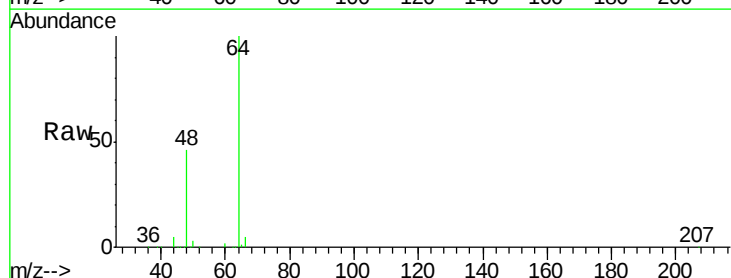
Acq: 15 Dec 2020 16:35

Tgt Ion: 50 Resp: 11251

Ion Ratio Lower Upper

50 100

52 2.7 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

3000

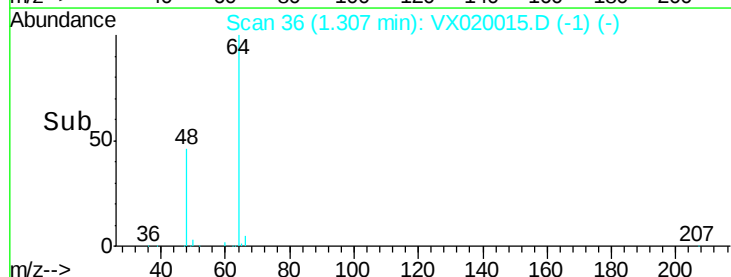
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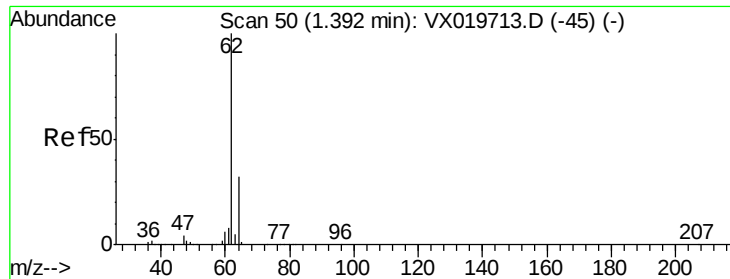
1000

0

Time-->

1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 2.740 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

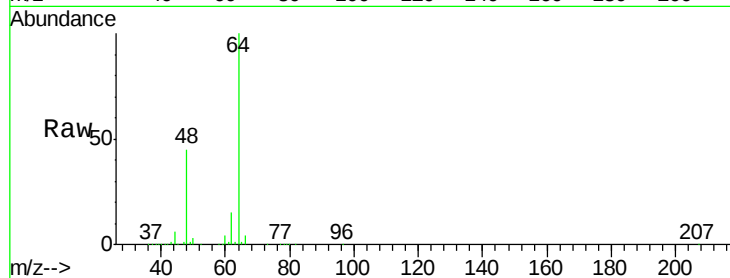
TU032-32-5076-121020

Tgt Ion: 62 Resp: 9752

Ion Ratio Lower Upper

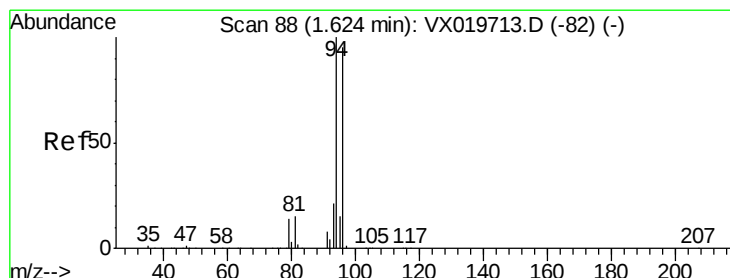
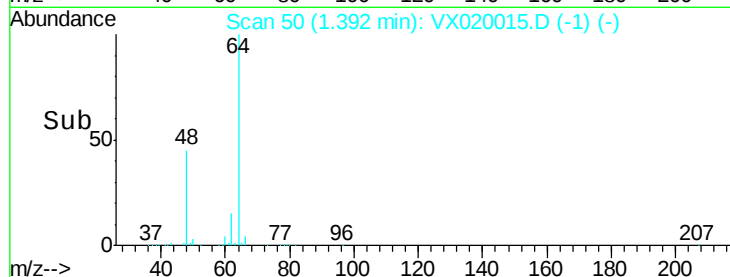
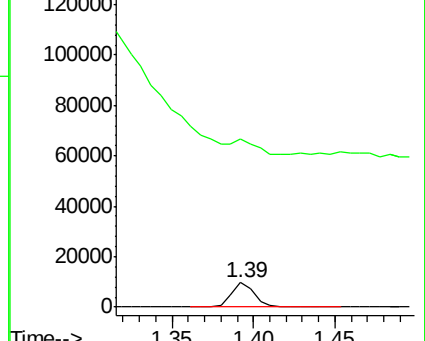
62 100

64 49.9 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: 0.347 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020015.D

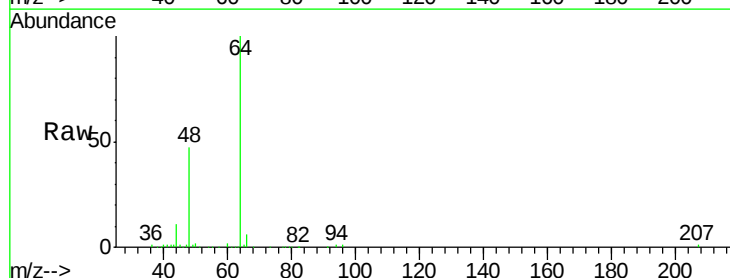
Acq: 15 Dec 2020 16:35

Tgt Ion: 94 Resp: 410

Ion Ratio Lower Upper

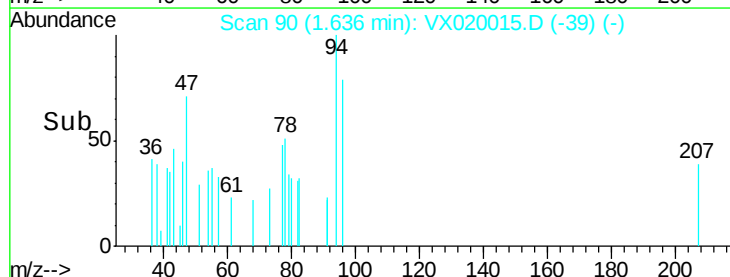
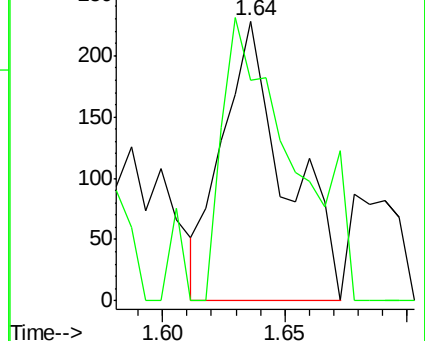
94 100

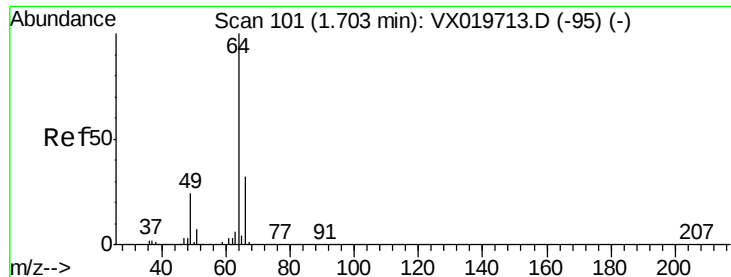
96 78.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 18.906 ug/l

RT: 1.61 min Scan# 85

Delta R.T. -0.10 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

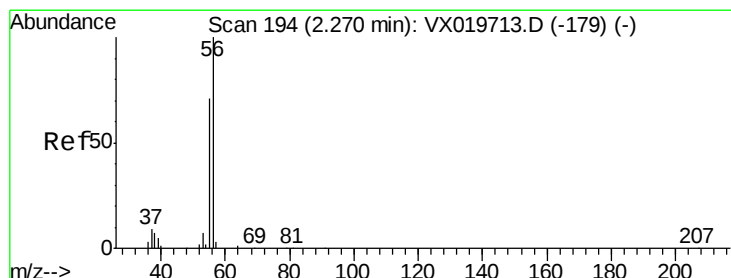
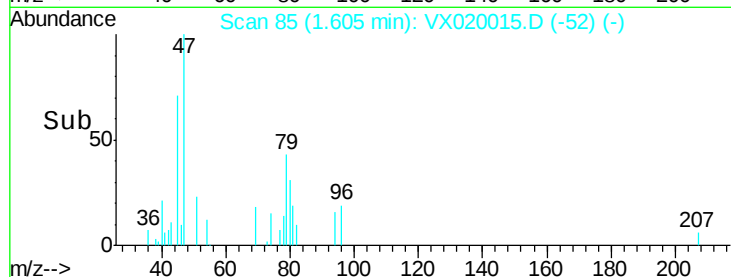
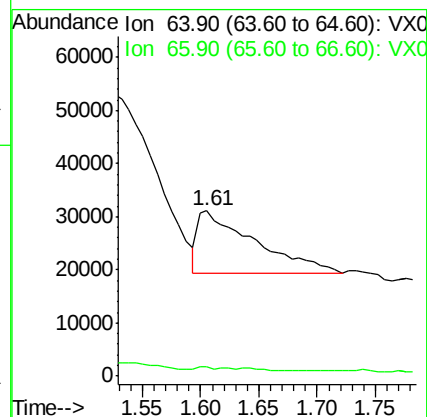
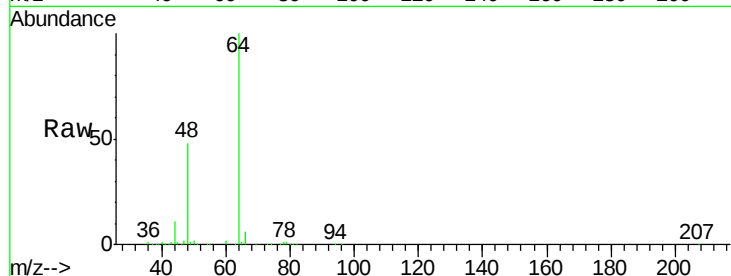
TU032-32-5076-121020

Tgt Ion: 64 Resp: 40420

Ion Ratio Lower Upper

64 100

66 6.7 25.4 38.0#



#13

Acrolein

Concen: 0.609 ug/l

RT: 2.25 min Scan# 190

Delta R.T. -0.02 min

Lab File: VX020015.D

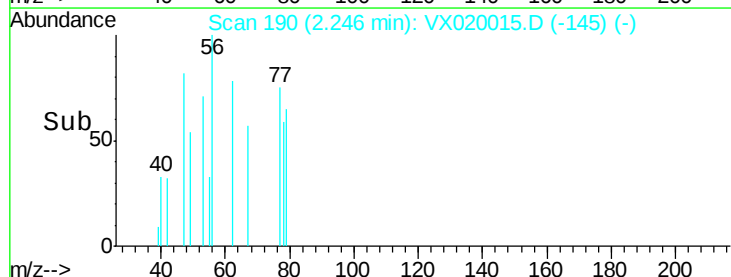
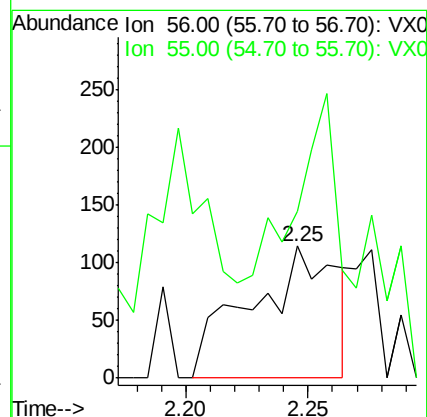
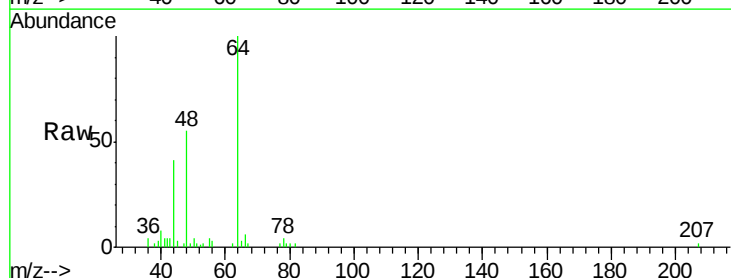
Acq: 15 Dec 2020 16:35

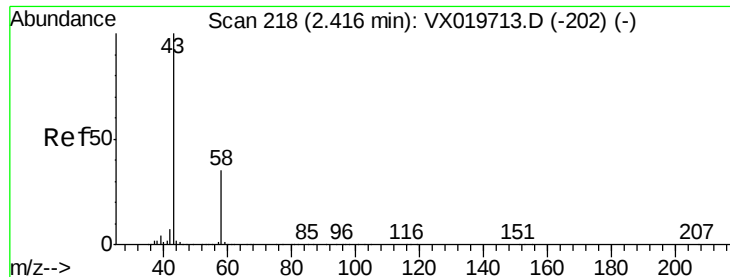
Tgt Ion: 56 Resp: 277

Ion Ratio Lower Upper

56 100

55 71.5 56.4 84.6





#16

Acetone

Concen: 3.880 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

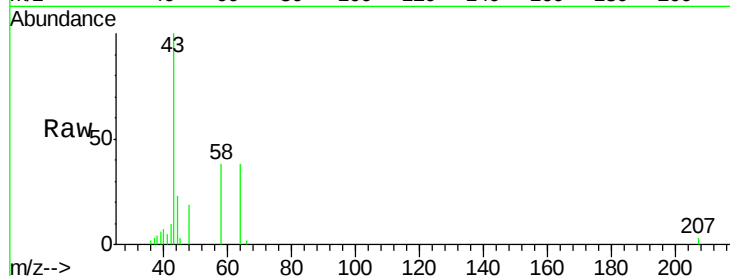
TU032-32-5076-121020

Tgt Ion: 43 Resp: 6009

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

2.42

3000

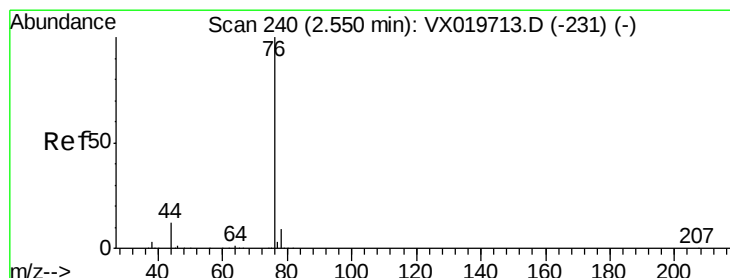
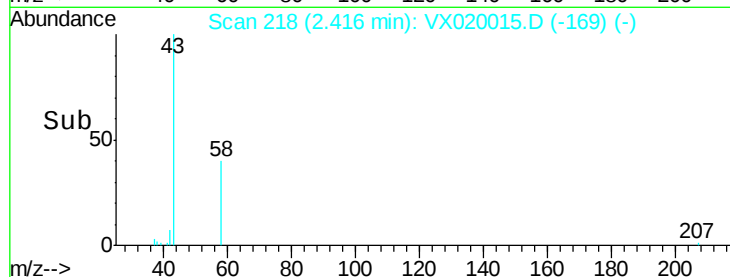
2000

1000

0

2.35 2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 1.826 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX020015.D

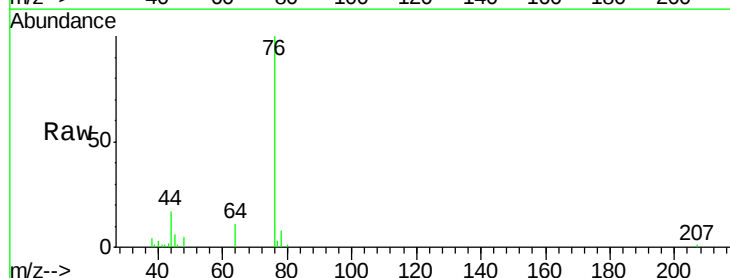
Acq: 15 Dec 2020 16:35

Tgt Ion: 76 Resp: 15045

Ion Ratio Lower Upper

76 100

78 8.1 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

12000

10000

8000

6000

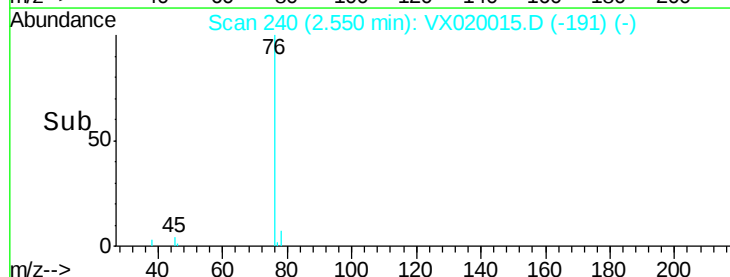
4000

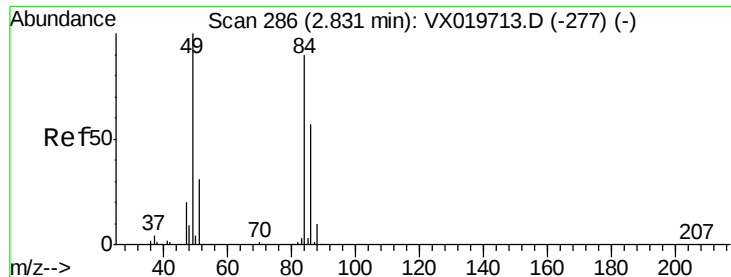
2000

0

2.50 2.55

Time-->

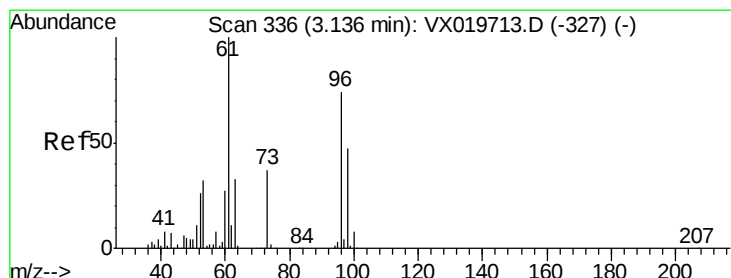
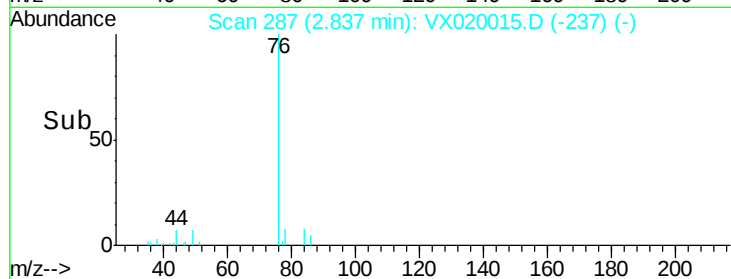
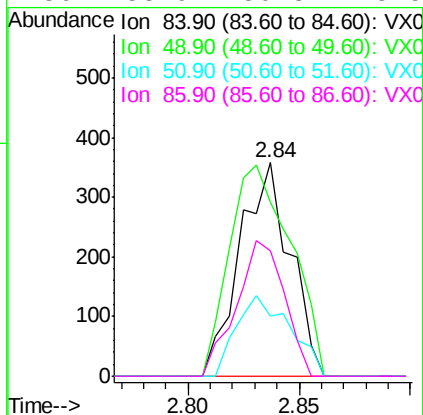
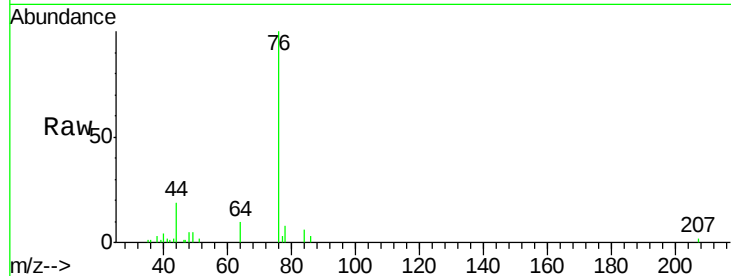




#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

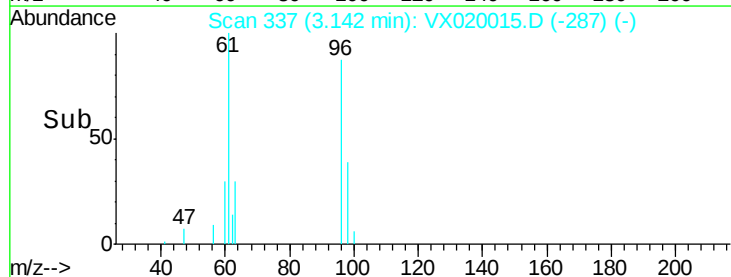
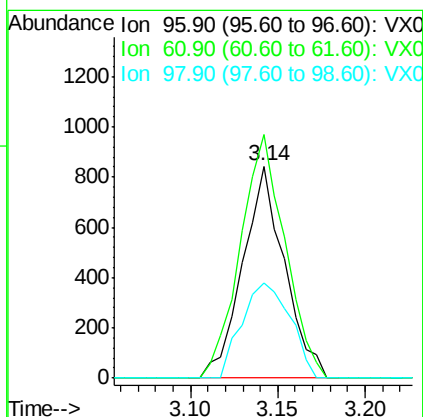
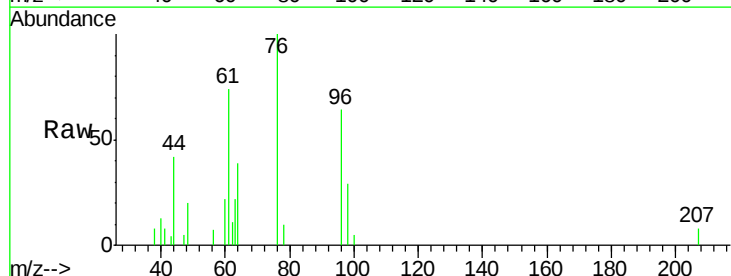
Instrument :
MSVOA_X
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TU032-32-5076-121020

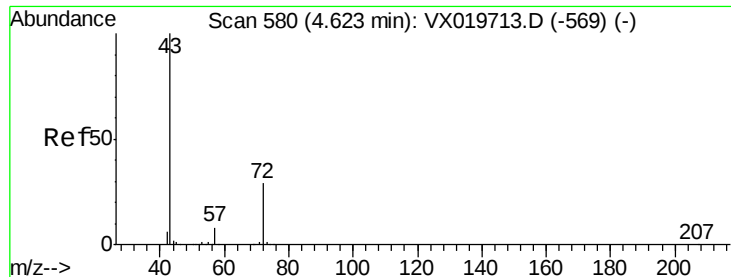
Tgt Ion:	84	Resp:	562
Ion	Ratio	Lower	Upper
84	100		
49	81.6	88.6	132.8#
51	27.9	27.0	40.6
86	58.9	50.3	75.5



#21
trans-1,2-Dichloroethene
Concen: 0.418 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

Tgt Ion:	96	Resp:	1401
Ion	Ratio	Lower	Upper
96	100		
61	114.9	107.7	161.5
98	45.1	50.4	75.6#





#25

2-Butanone

Concen: 0.572 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

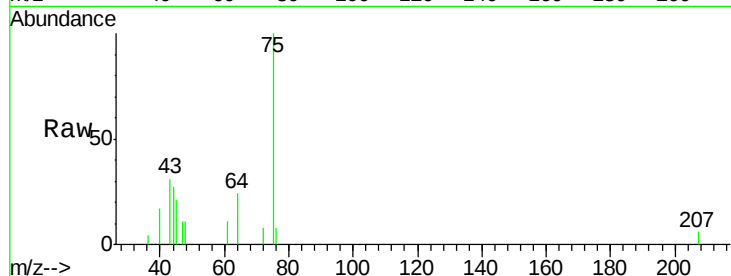
TU032-32-5076-121020

Tgt Ion: 43 Resp: 1360

Ion Ratio Lower Upper

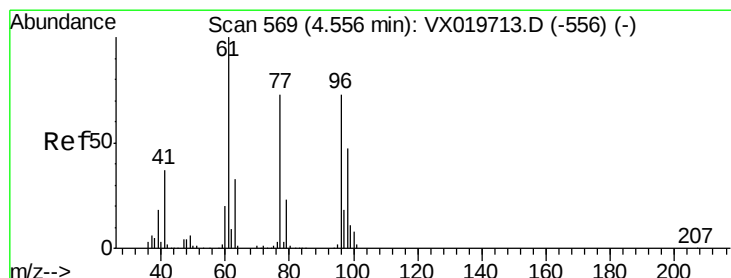
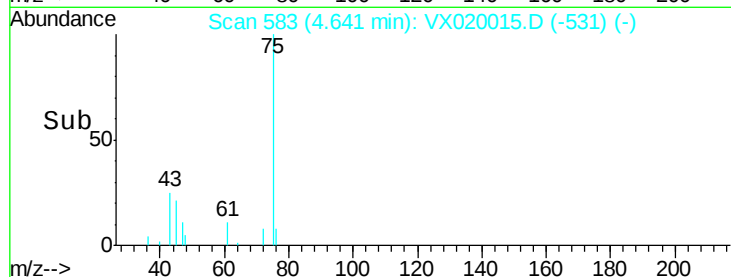
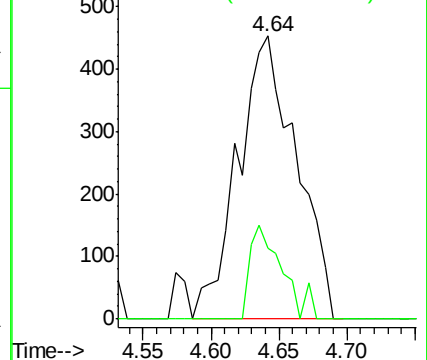
43 100

72 24.9 23.7 35.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.040 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

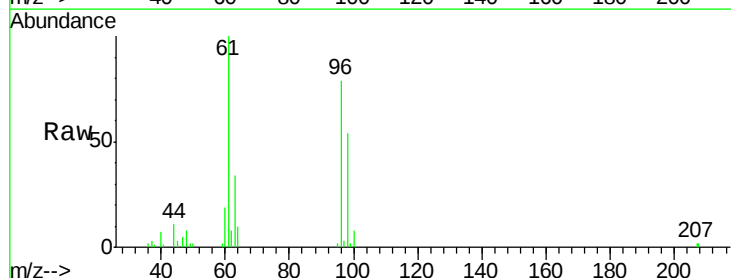
Tgt Ion: 96 Resp: 7994

Ion Ratio Lower Upper

96 100

61 147.1 0.0 285.6

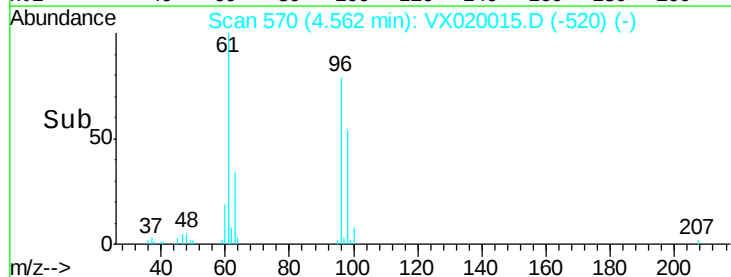
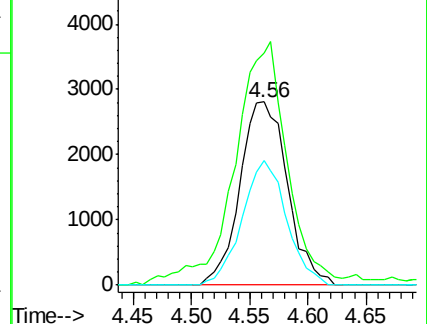
98 63.5 0.0 129.6

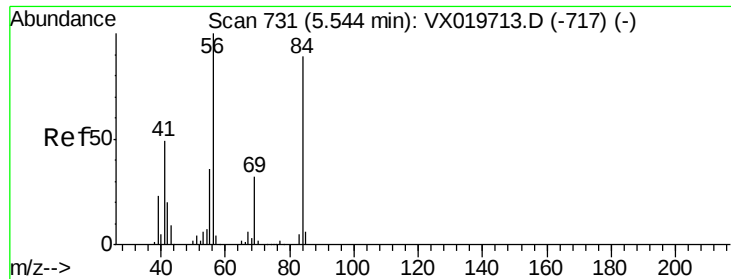


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

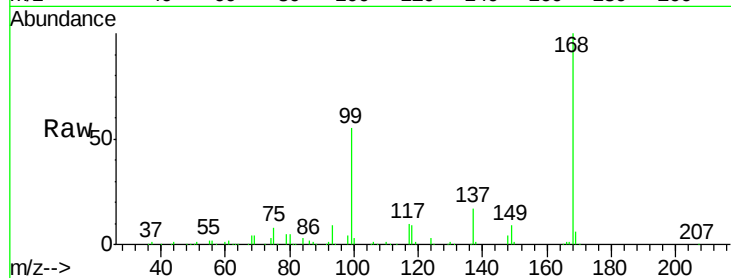




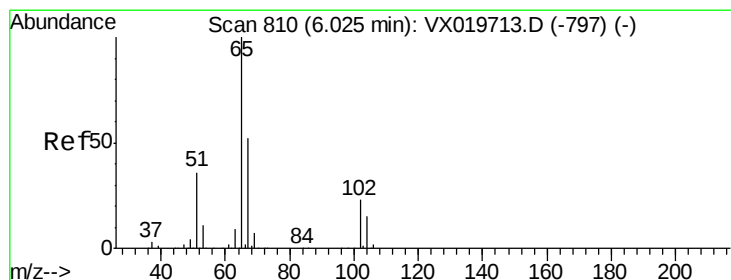
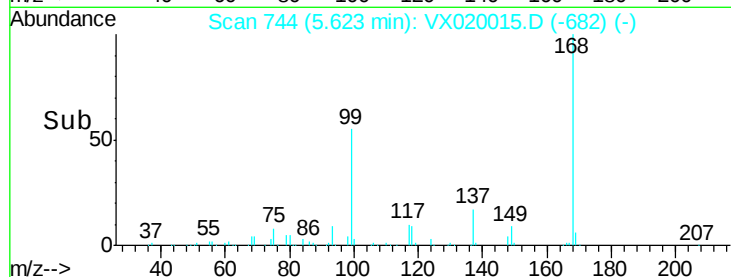
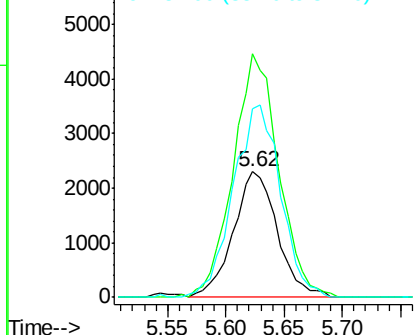
#31
Cyclohexane
Concen: 1.181 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5076-121020

Tgt Ion: 56 Resp: 6052
Ion Ratio Lower Upper
56 100
69 193.5 25.3 37.9#
84 149.6 71.4 107.0#

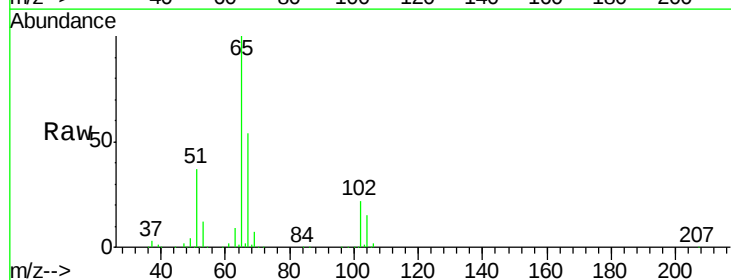


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

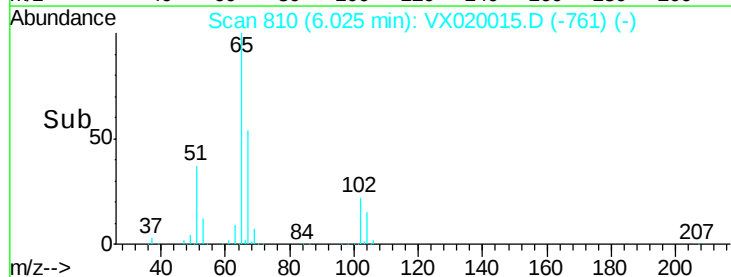
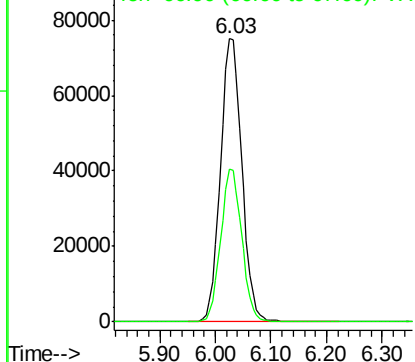


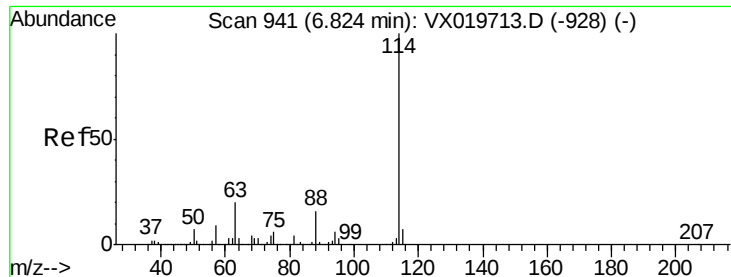
#33
1,2-Dichloroethane-d4
Concen: 48.461 ug/l
RT: 6.03 min Scan# 810
Delta R.T. 0.00 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

Tgt Ion: 65 Resp: 199659
Ion Ratio Lower Upper
65 100
67 53.2 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: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5076-121020

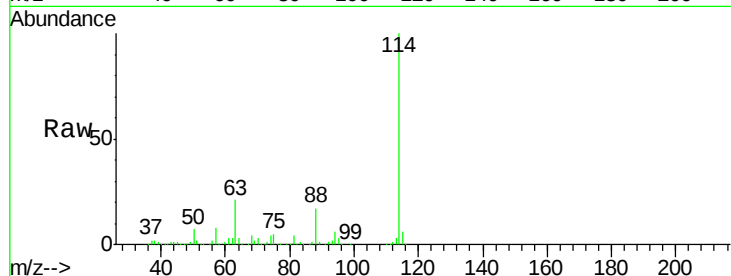
Tgt Ion:114 Resp: 522080

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

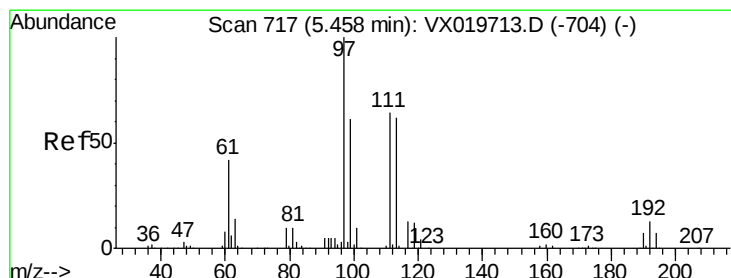
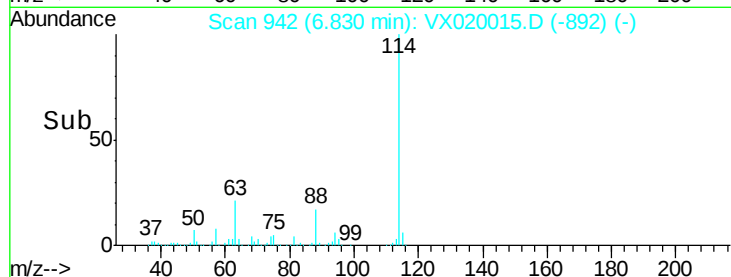
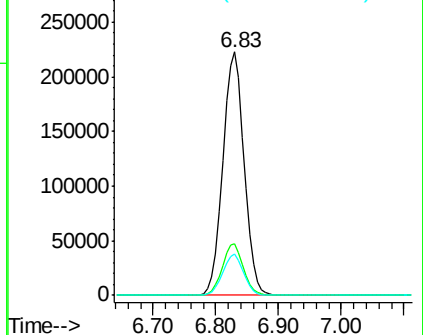
88 17.1 0.0 32.8



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: 48.977 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

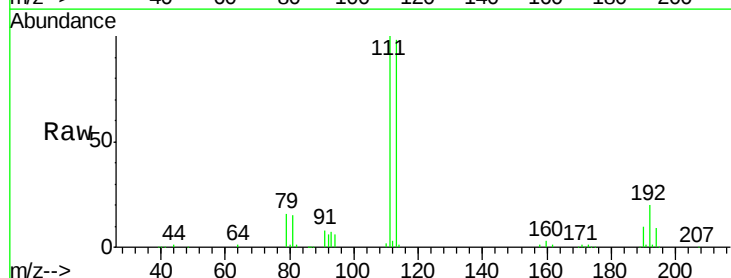
Tgt Ion:113 Resp: 165255

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

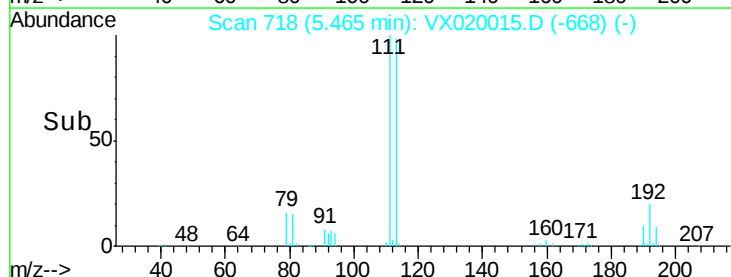
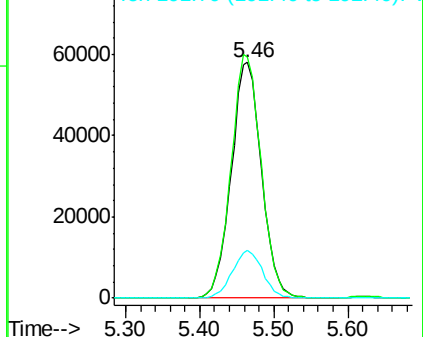
192 20.3 16.7 25.1

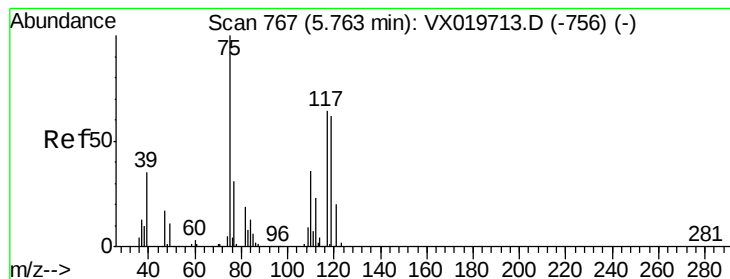


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.052 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5076-121020

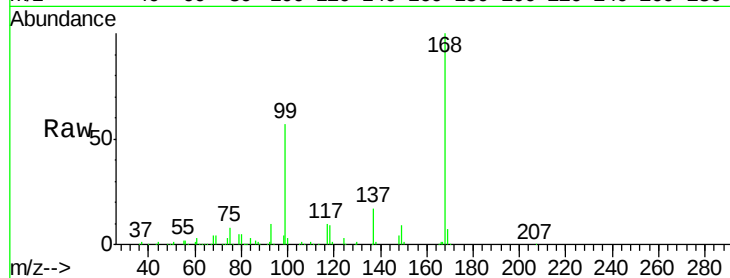
Tgt Ion: 75 Resp: 23834

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.4#

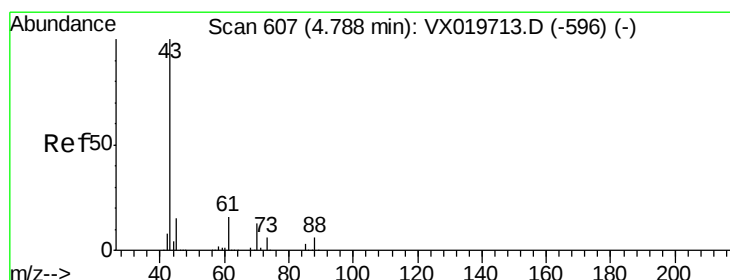
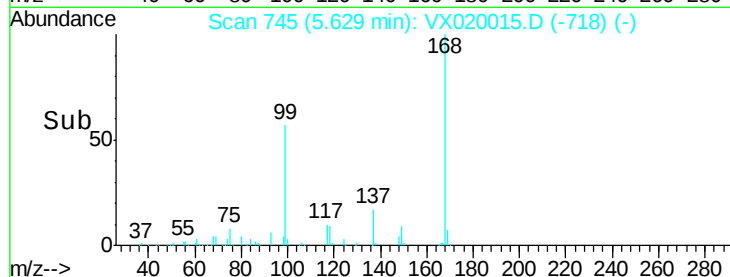
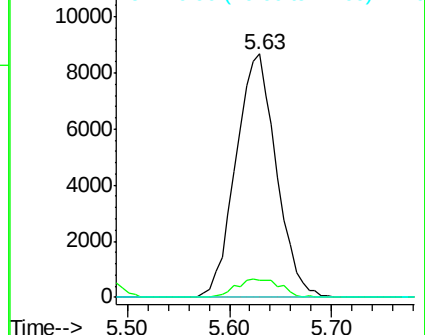
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.286 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

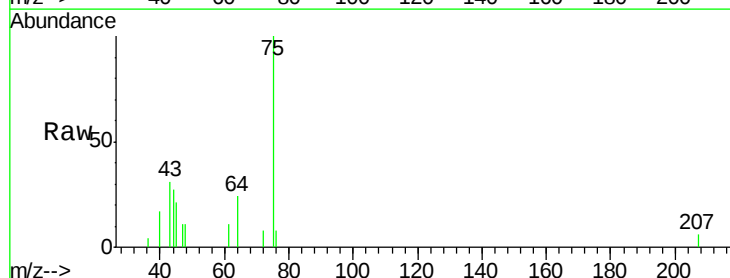
Tgt Ion: 43 Resp: 1360

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

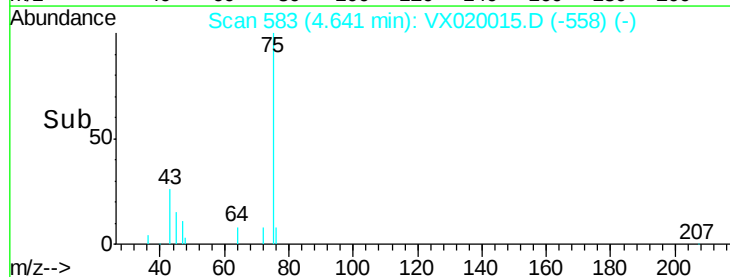
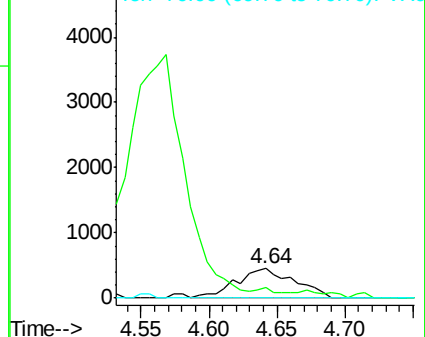
70 0.0 10.5 15.7#

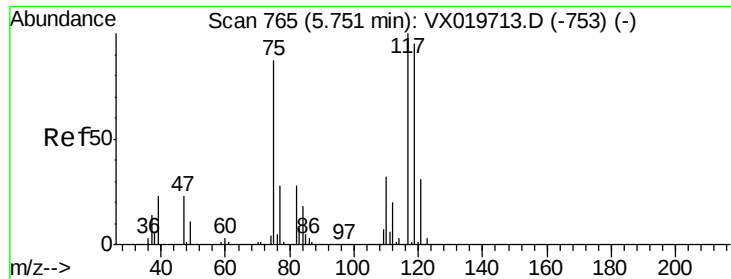


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.768 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5076-121020

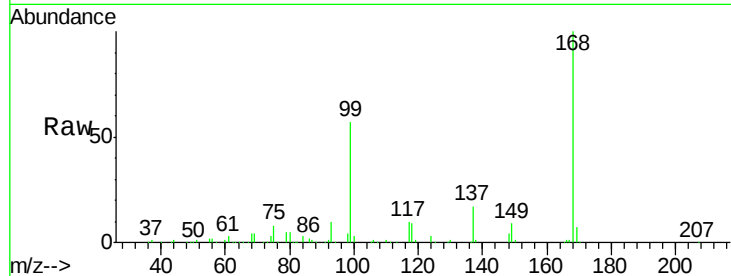
Tgt Ion:117 Resp: 31267

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

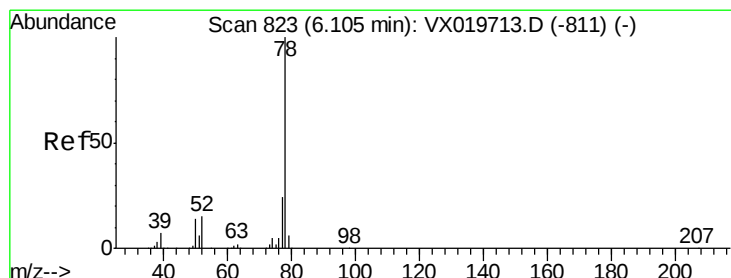
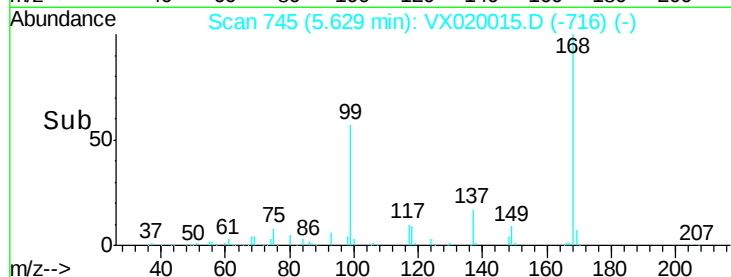
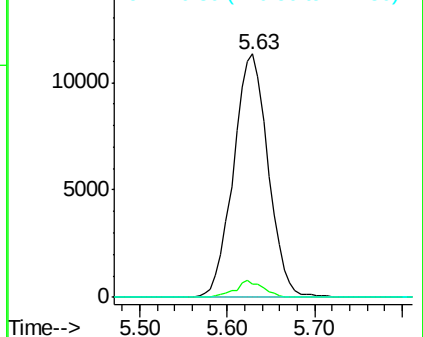
121 0.0 24.8 37.2#



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: 0.241 ug/l

RT: 6.10 min Scan# 823

Delta R.T. 0.00 min

Lab File: VX020015.D

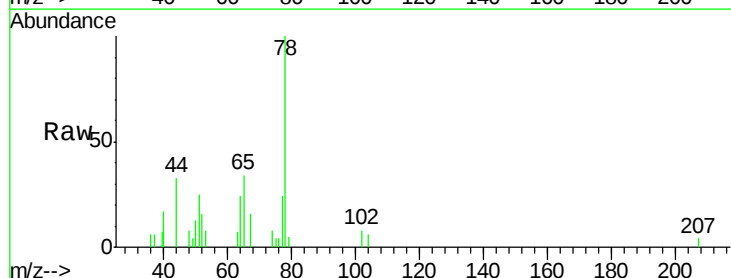
Acq: 15 Dec 2020 16:35

Tgt Ion: 78 Resp: 3468

Ion Ratio Lower Upper

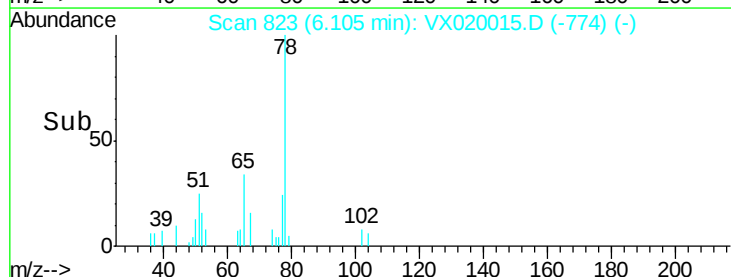
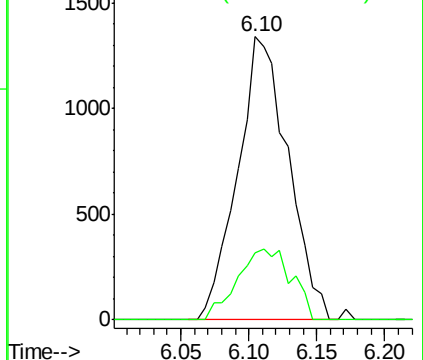
78 100

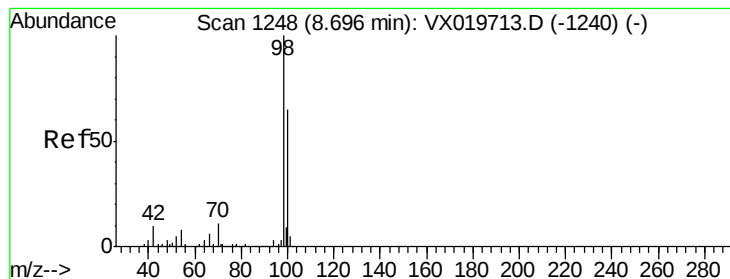
77 23.8 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 49.440 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

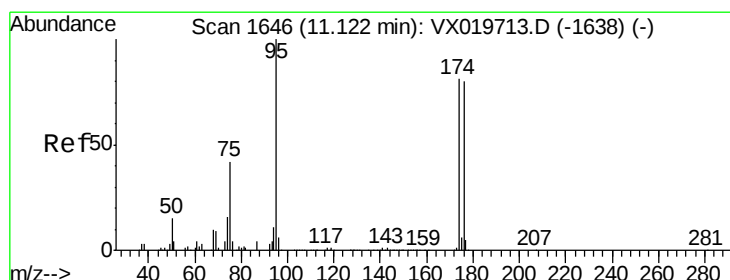
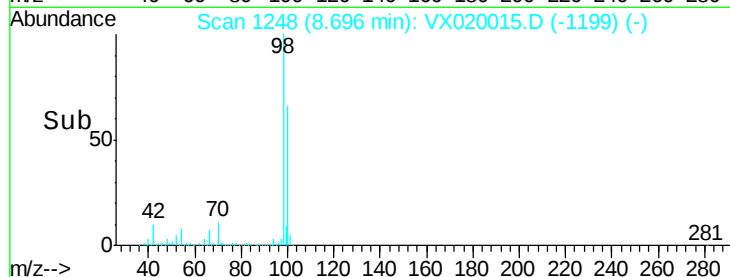
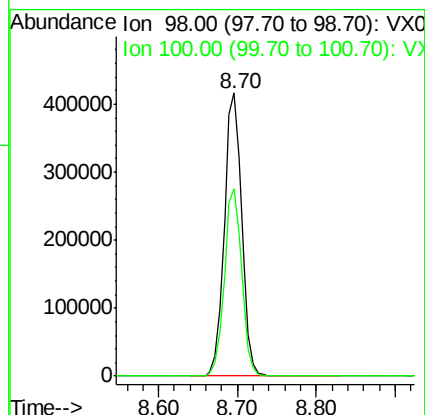
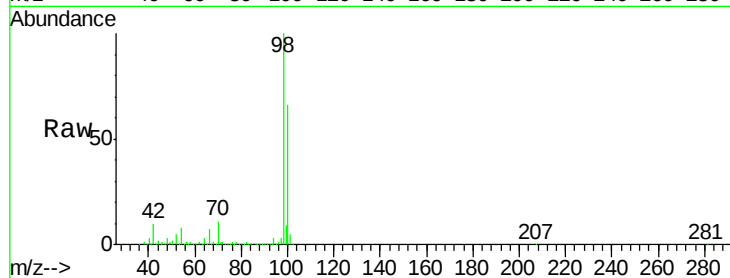
TU032-32-5076-121020

Tgt Ion: 98 Resp: 636860

Ion Ratio Lower Upper

98 100

100 65.6 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.841 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.01 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

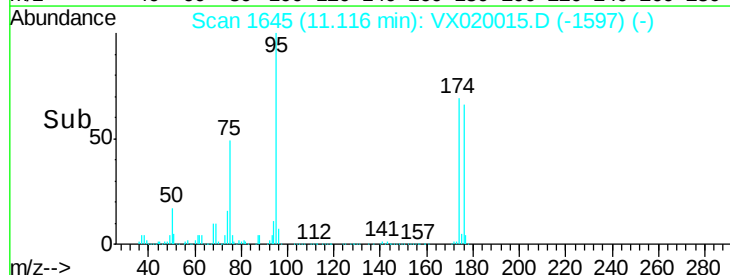
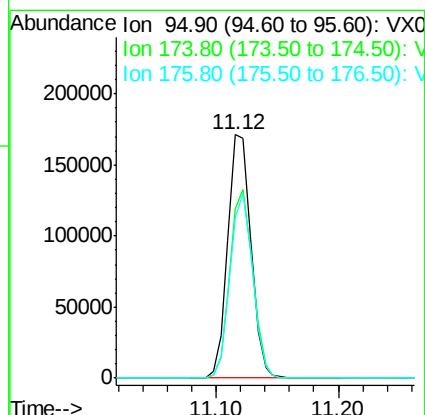
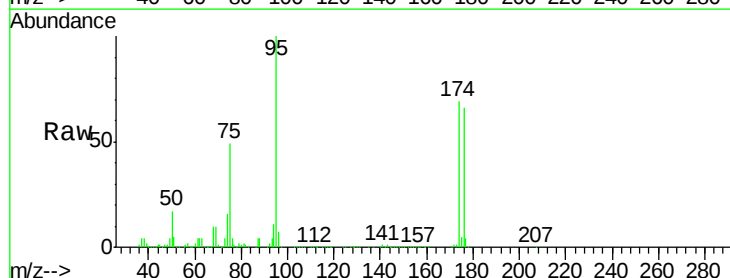
Tgt Ion: 95 Resp: 224754

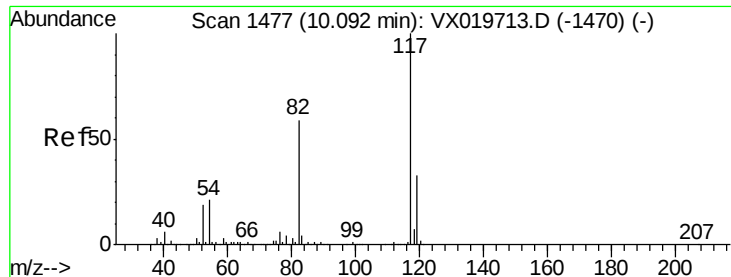
Ion Ratio Lower Upper

95 100

174 76.2 0.0 154.6

176 73.9 0.0 155.8

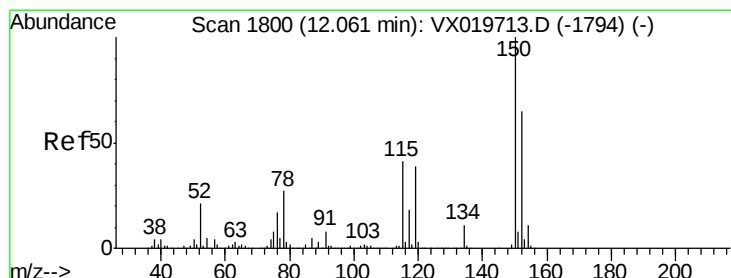
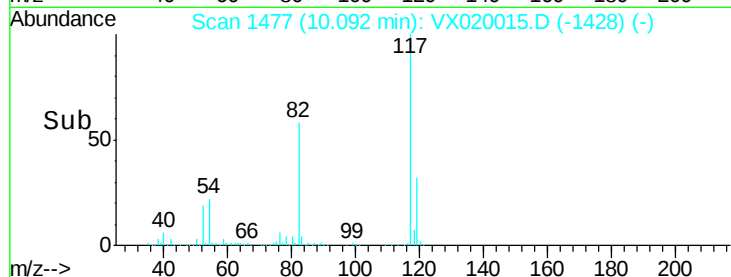
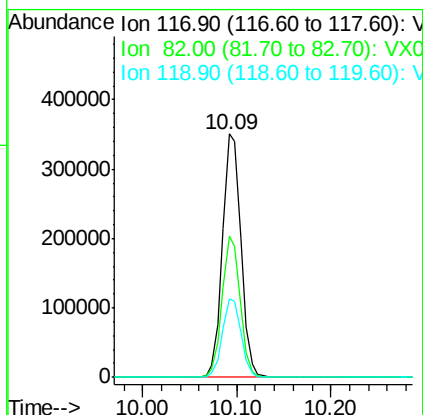
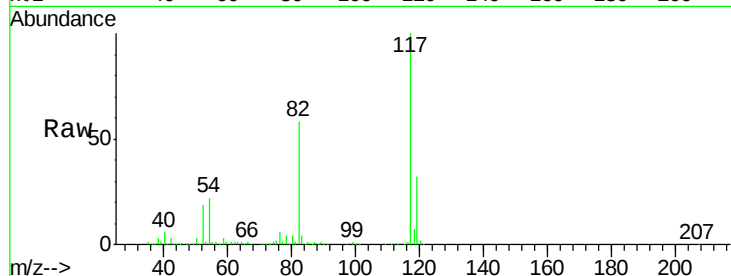




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

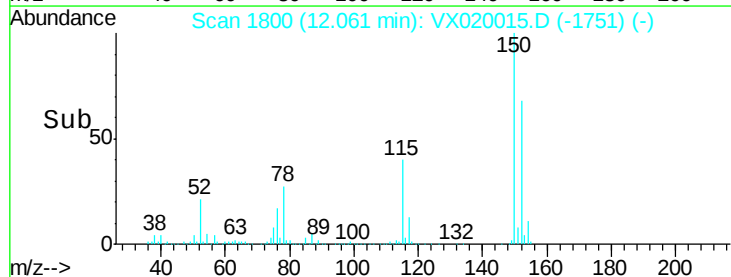
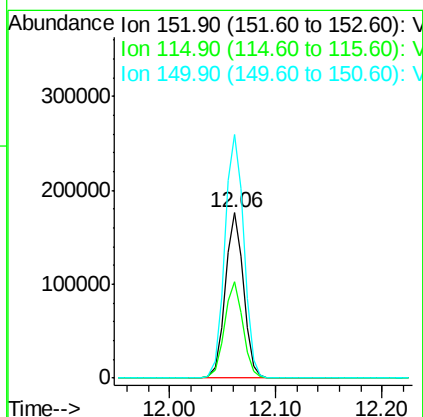
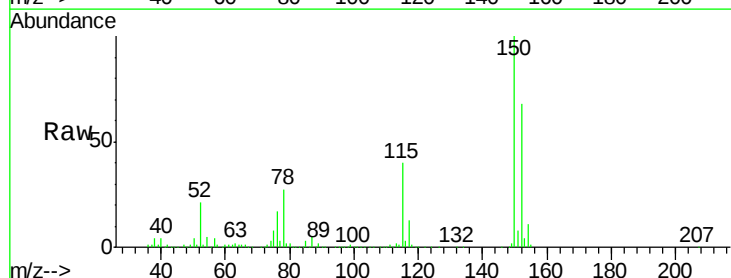
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5076-121020

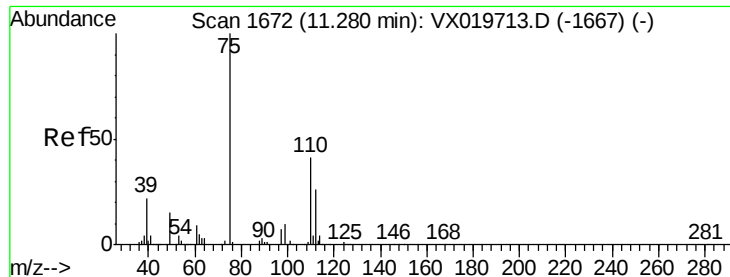
Tgt Ion:117 Resp: 476760
Ion Ratio Lower Upper
117 100
82 58.1 47.4 71.2
119 32.1 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX020015.D
Acq: 15 Dec 2020 16:35

Tgt Ion:152 Resp: 211080
Ion Ratio Lower Upper
152 100
115 58.7 41.1 123.3
150 154.4 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 23.036 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

Instrument :

MSVOA_X

ClientSampleId :

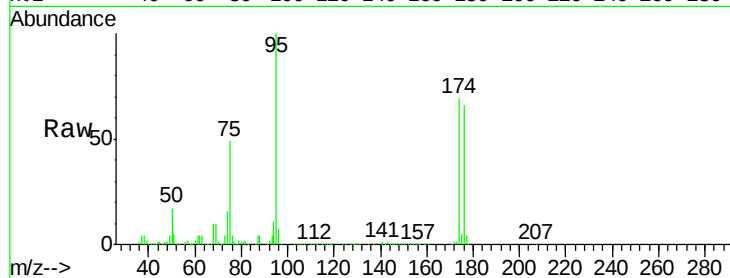
TU032-32-5076-121020

Tgt Ion: 75 Resp: 109055

Ion Ratio Lower Upper

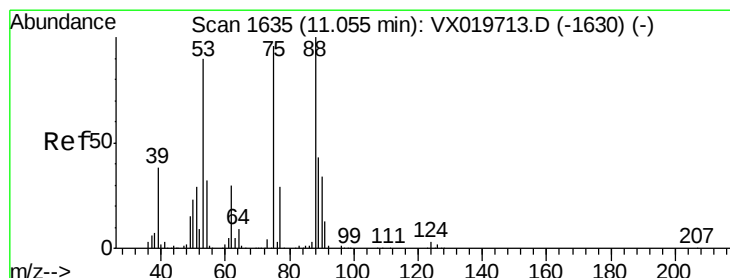
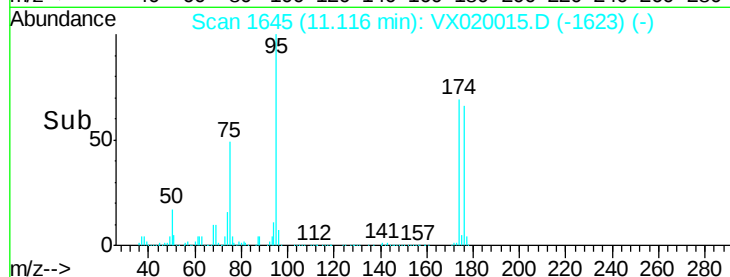
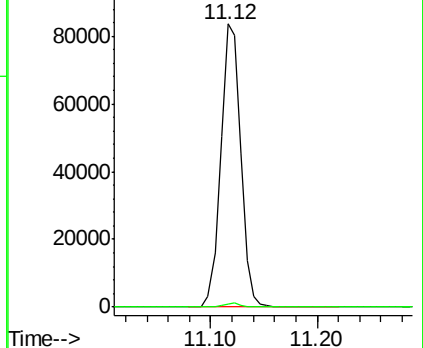
75 100

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: 66.592 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020015.D

Acq: 15 Dec 2020 16:35

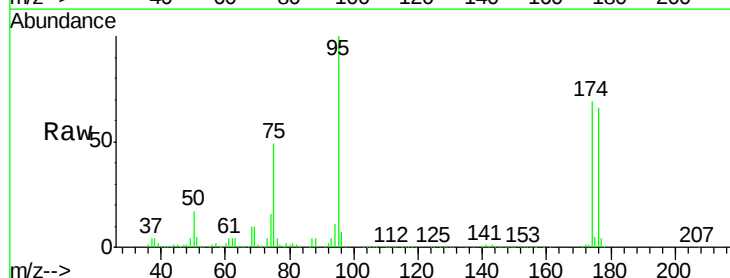
Tgt Ion: 75 Resp: 109055

Ion Ratio Lower Upper

75 100

53 0.2 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

