

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121520\
 Data File : VX020014.D
 Acq On : 15 Dec 2020 16:11
 Operator : JC/MD
 Sample : L5052-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-FD04-121020

Quant Time: Dec 16 00:25:54 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	312456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	517182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	474645	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206210	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	199973	48.70	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.40%	
35) Dibromofluoromethane		5.46	113	162316	48.56	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.12%	
50) Toluene-d8		8.70	98	625701	49.03	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.06%	
62) 4-Bromofluorobenzene		11.12	95	219713	45.24	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	4136	1.446	ug/l	96
4) Vinyl Chloride	1.39	62	194860	54.931	ug/l	100
5) Bromomethane	1.64	94	652	0.554	ug/l	84
6) Chloroethane	1.71	64	590	0.277	ug/l	93
11) Tert butyl alcohol	2.99	59	5804	4.307	ug/l #	77
12) 1,1-Dichloroethene	2.36	96	2804	0.979	ug/l	95
13) Acrolein	2.28	56	207	0.457	ug/l #	14
16) Acetone	2.42	43	4334	2.808	ug/l	96
17) Carbon Disulfide	2.55	76	2361	0.287	ug/l	96
20) Methylene Chloride	2.84	84	583	Below Cal		96
21) trans-1,2-Dichloroethene	3.14	96	14486	4.340	ug/l	95
25) 2-Butanone	4.64	43	789	0.333	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	120499	30.851	ug/l	90
31) Cyclohexane	5.62	56	6089	1.192	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24103	5.157	ug/l #	48
38) Carbon Tetrachloride	5.63	117	30555	6.677	ug/l #	17
44) Trichloroethene	7.19	130	4306	1.150	ug/l	97
51) 4-Methyl-2-Pentanone	8.70	43	2799	0.598	ug/l #	1
59) 2-Hexanone	9.28	43	1435	0.395	ug/l	67
76) 1,2,3-Trichloropropane	11.12	75	106314	22.987	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	106314	66.452	ug/l #	12

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX121520\  
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Acq On    : 15 Dec 2020 16:11  
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Sample    : L5052-09  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 12 Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

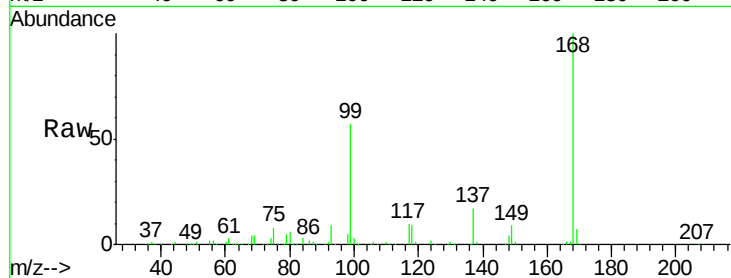
TU032-FD04-121020

Tgt Ion:168 Resp: 312456

Ion Ratio Lower Upper

168 100

99 57.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

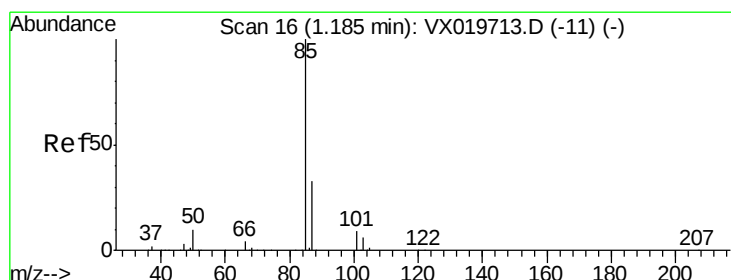
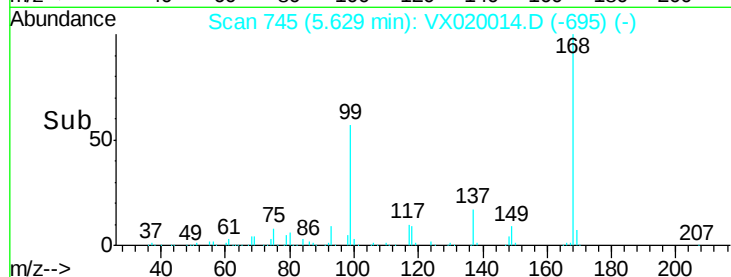
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.446 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX020014.D

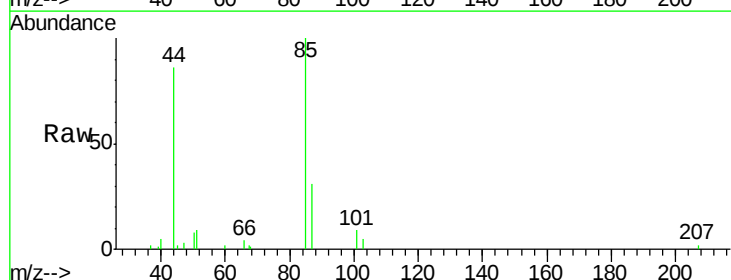
Acq: 15 Dec 2020 16:11

Tgt Ion: 85 Resp: 4136

Ion Ratio Lower Upper

85 100

87 30.8 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

5000

4000

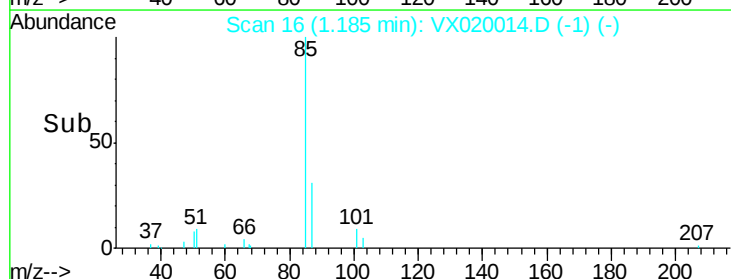
3000

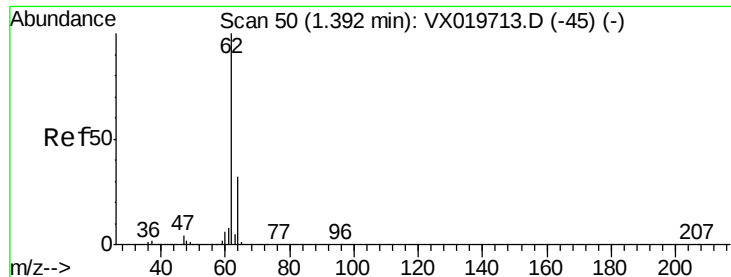
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 54.931 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

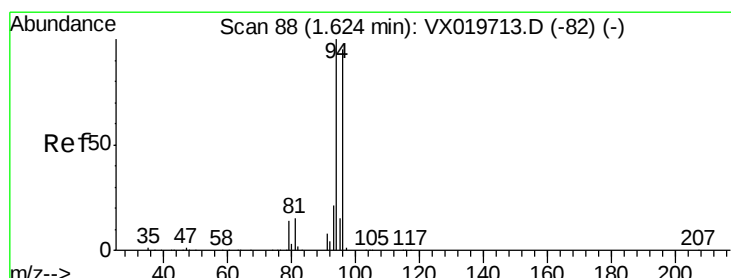
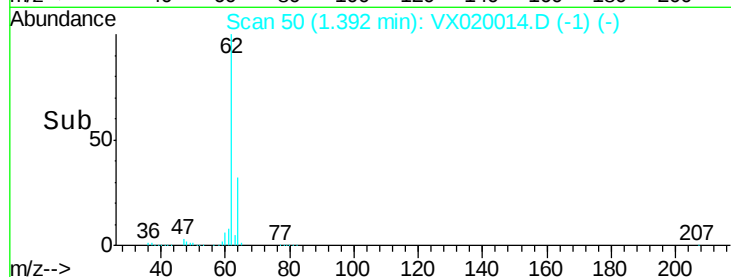
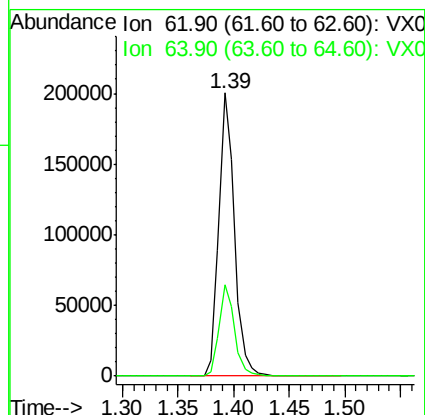
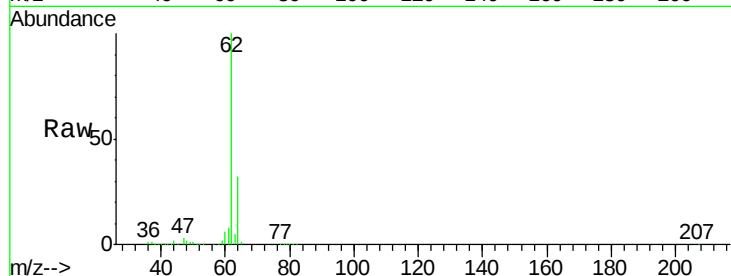
TU032-FD04-121020

Tgt Ion: 62 Resp: 194860

Ion Ratio Lower Upper

62 100

64 32.3 25.7 38.5



#5

Bromomethane

Concen: 0.554 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX020014.D

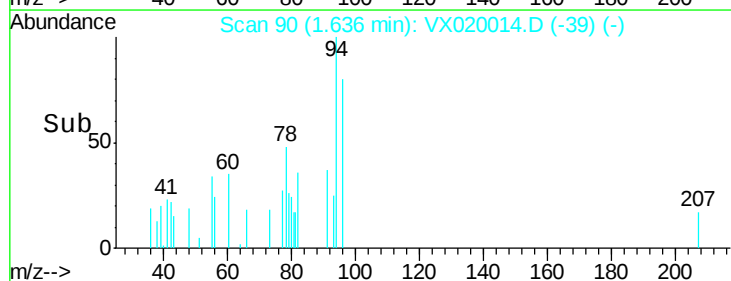
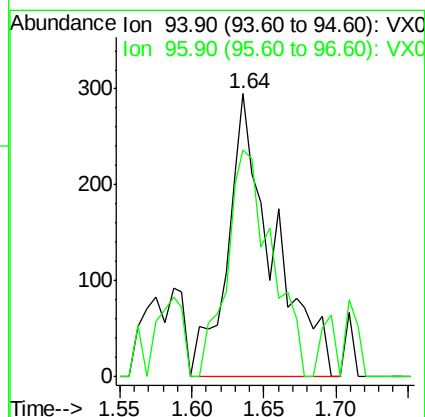
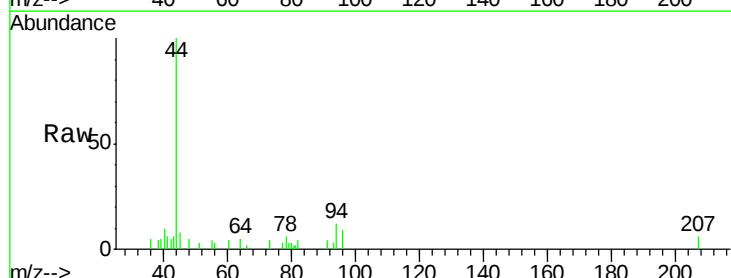
Acq: 15 Dec 2020 16:11

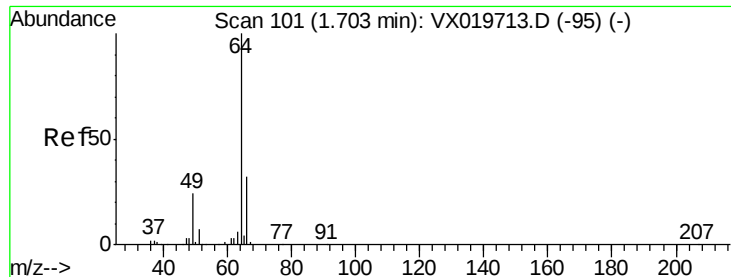
Tgt Ion: 94 Resp: 652

Ion Ratio Lower Upper

94 100

96 80.3 76.4 114.6





#6

Chloroethane

Concen: 0.277 ug/l

RT: 1.71 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

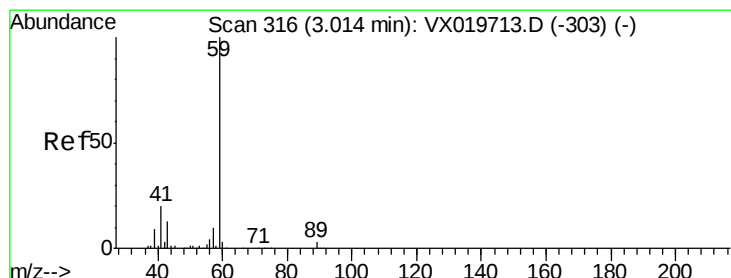
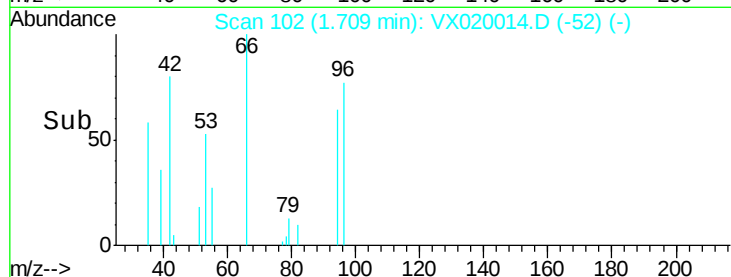
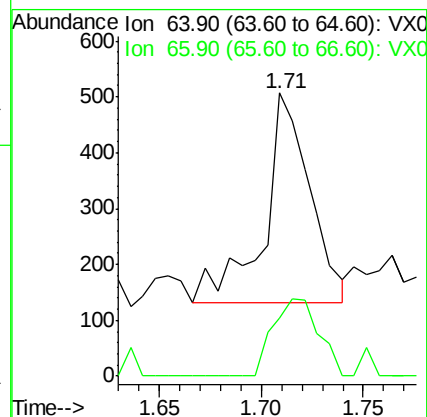
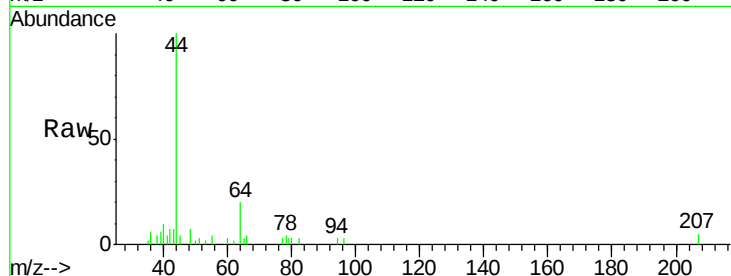
TU032-FD04-121020

Tgt Ion: 64 Resp: 590

Ion Ratio Lower Upper

64 100

66 28.0 25.4 38.0



#11

Tert butyl alcohol

Concen: 4.307 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX020014.D

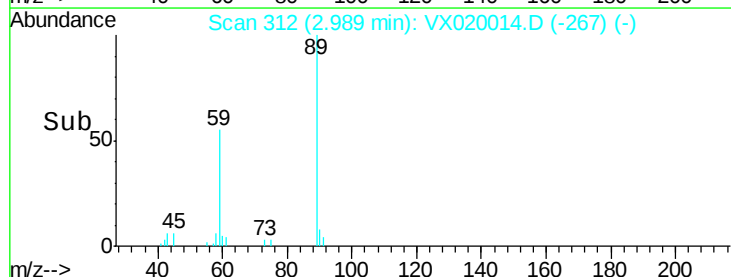
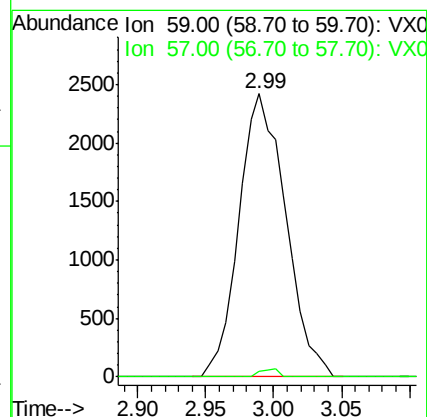
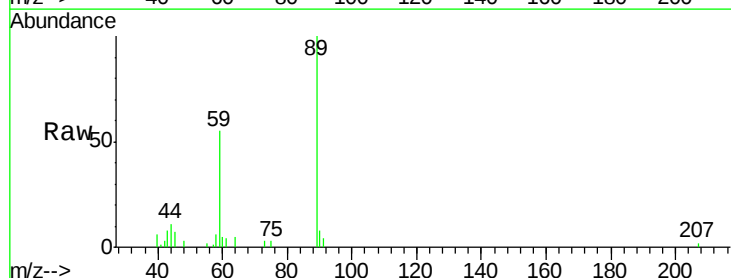
Acq: 15 Dec 2020 16:11

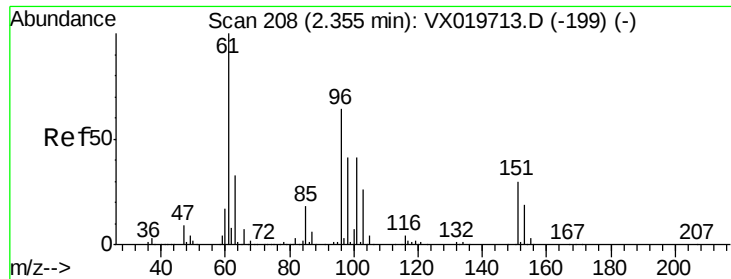
Tgt Ion: 59 Resp: 5804

Ion Ratio Lower Upper

59 100

57 1.2 7.8 11.8#

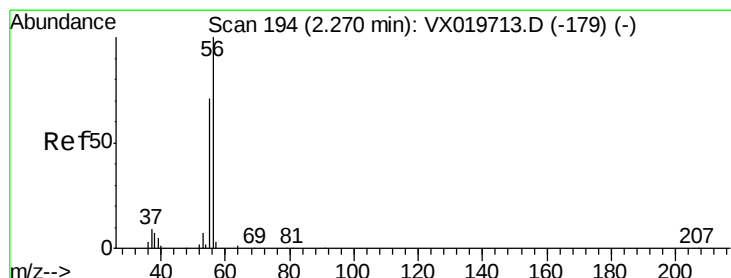
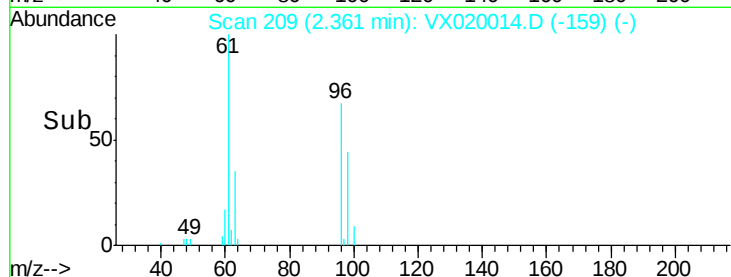
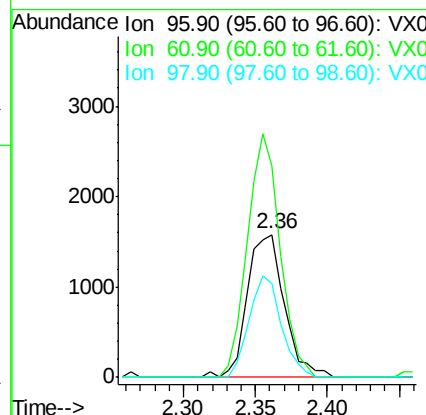
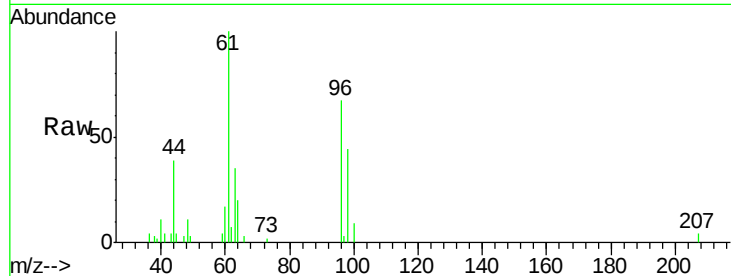




#12
 1,1-Dichloroethene
 Concen: 0.979 ug/l
 RT: 2.36 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VX020014.D
 Acq: 15 Dec 2020 16:11

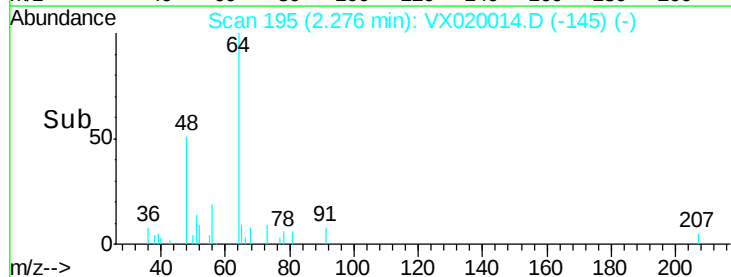
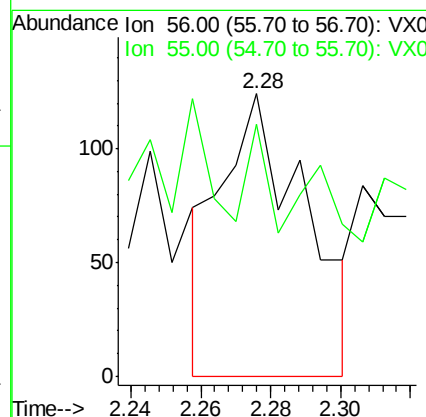
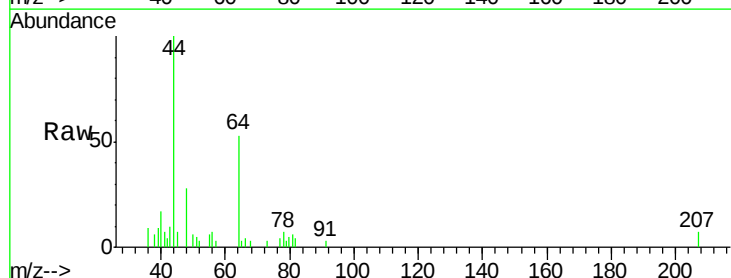
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-FD04-121020

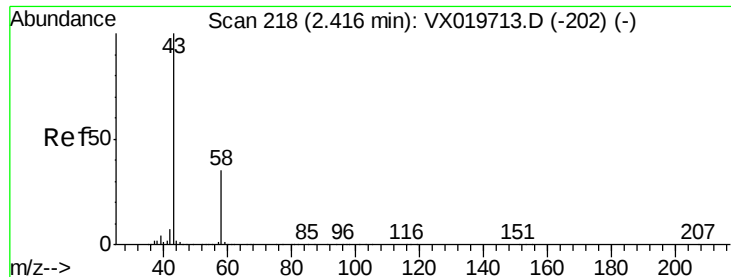
Tgt Ion: 96 Resp: 2804
 Ion Ratio Lower Upper
 96 100
 61 148.4 124.6 187.0
 98 65.6 50.6 76.0



#13
 Acrolein
 Concen: 0.457 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX020014.D
 Acq: 15 Dec 2020 16:11

Tgt Ion: 56 Resp: 207
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.4 84.6#





#16

Acetone

Concen: 2.808 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

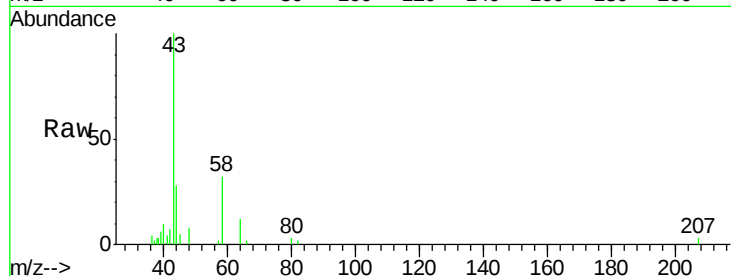
TU032-FD04-121020

Tgt Ion: 43 Resp: 4334

Ion Ratio Lower Upper

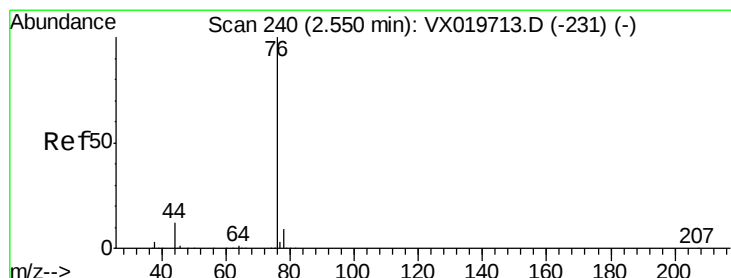
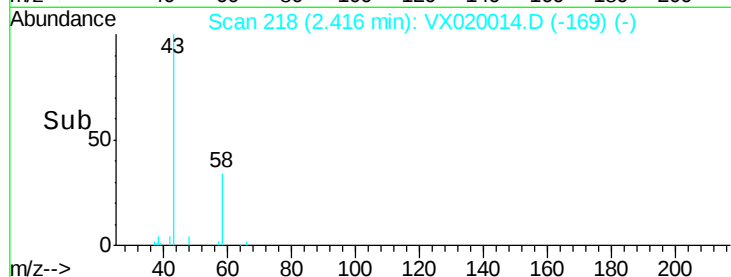
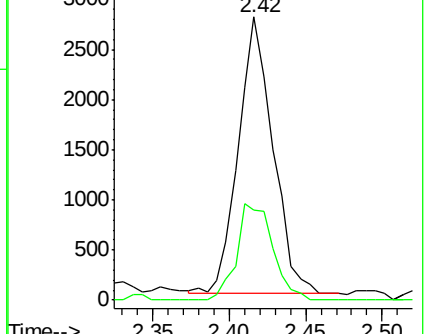
43 100

58 32.6 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX020014.D

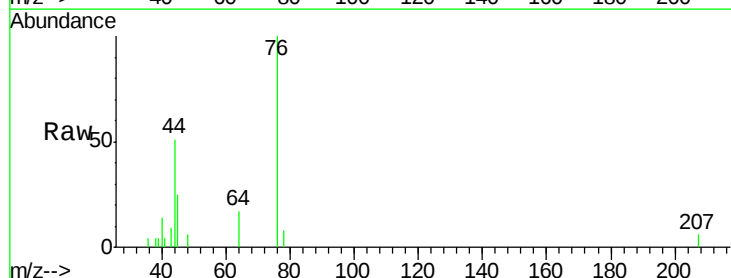
Acq: 15 Dec 2020 16:11

Tgt Ion: 76 Resp: 2361

Ion Ratio Lower Upper

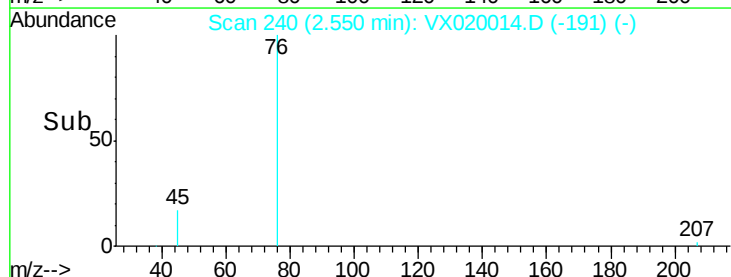
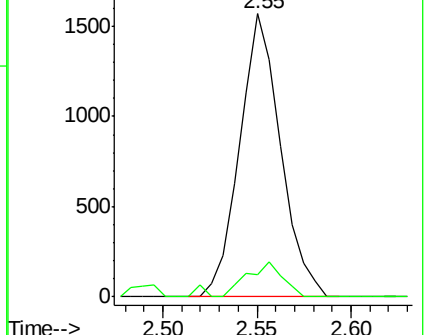
76 100

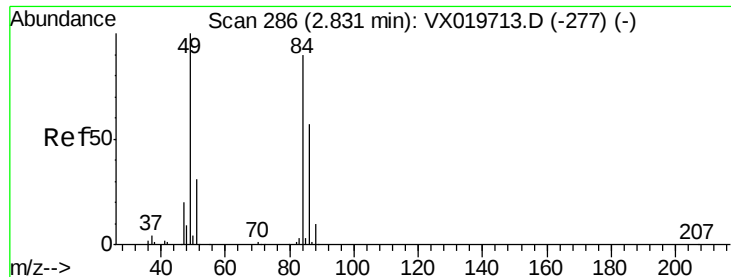
78 7.7 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



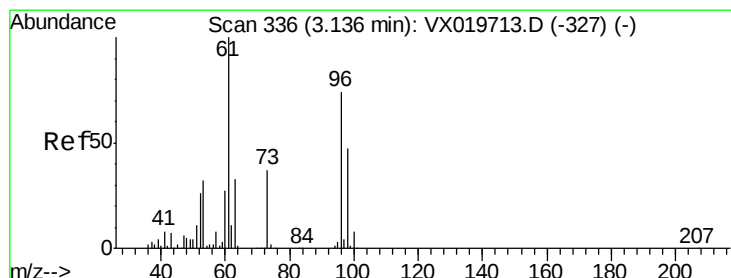
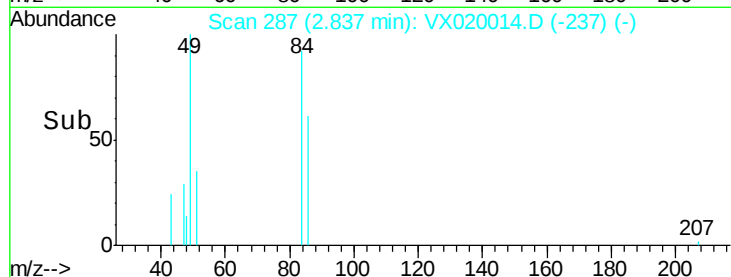
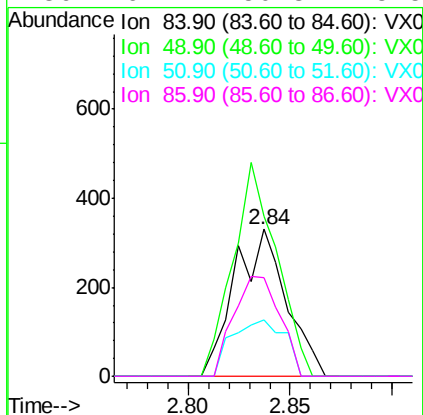
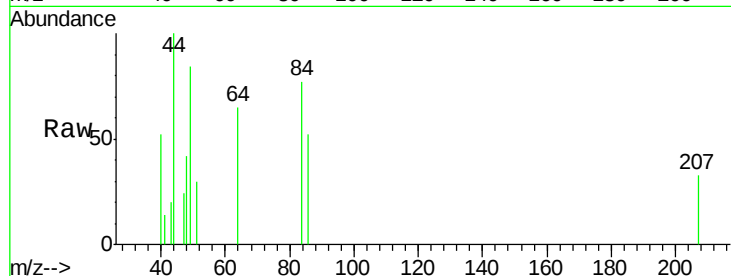


#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX020014.D
Acq: 15 Dec 2020 16:11

Instrument :
MSVOA_X
ClientSampleId :
TU032-FD04-121020

Tgt Ion: 84 Resp: 583

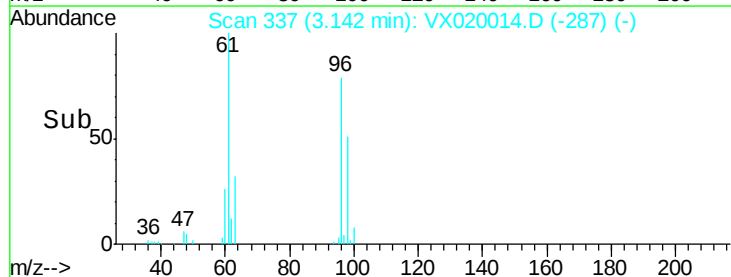
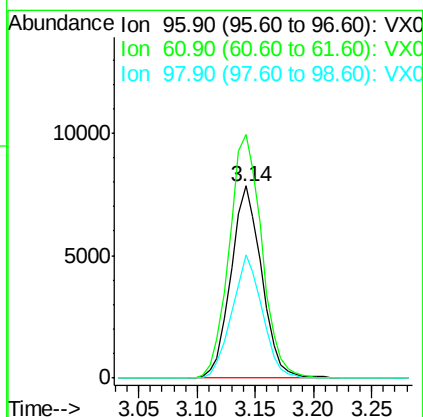
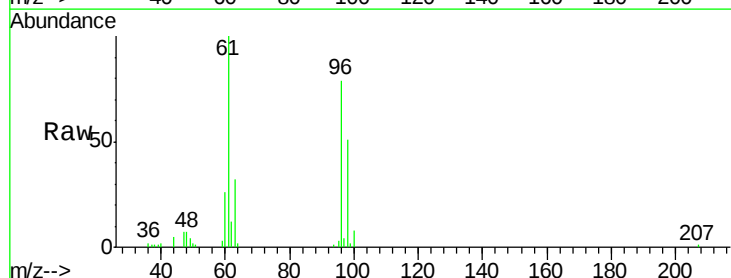
Ion	Ratio	Lower	Upper
84	100		
49	109.1	88.6	132.8
51	38.7	27.0	40.6
86	67.1	50.3	75.5

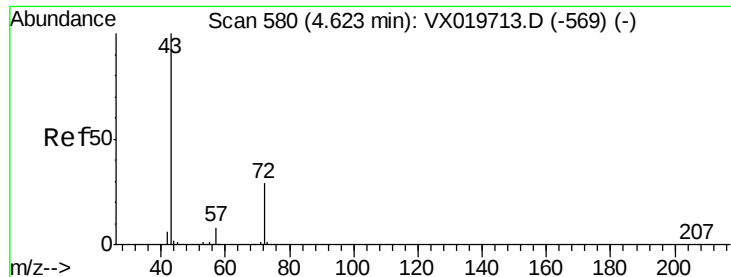


#21
trans-1,2-Dichloroethene
Concen: 4.340 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX020014.D
Acq: 15 Dec 2020 16:11

Tgt Ion: 96 Resp: 14486

Ion	Ratio	Lower	Upper
96	100		
61	126.6	107.7	161.5
98	64.0	50.4	75.6





#25

2-Butanone

Concen: 0.333 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

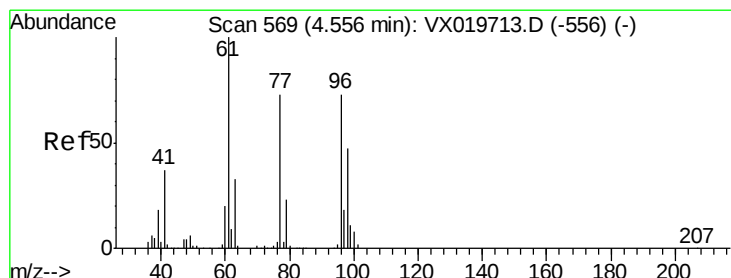
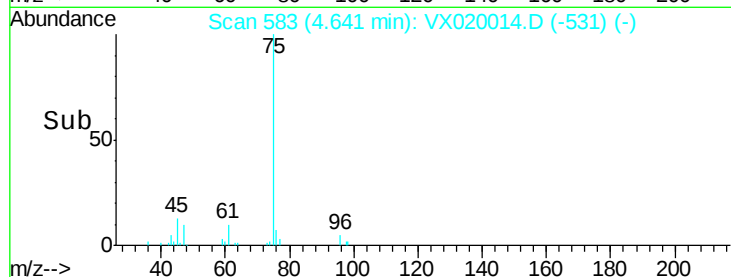
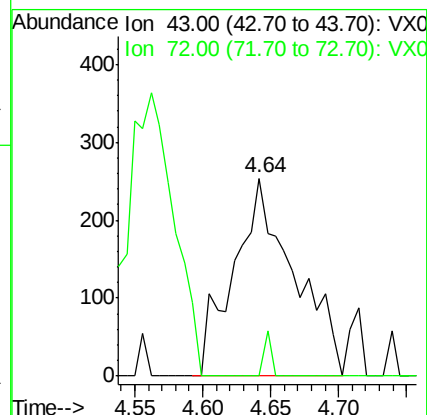
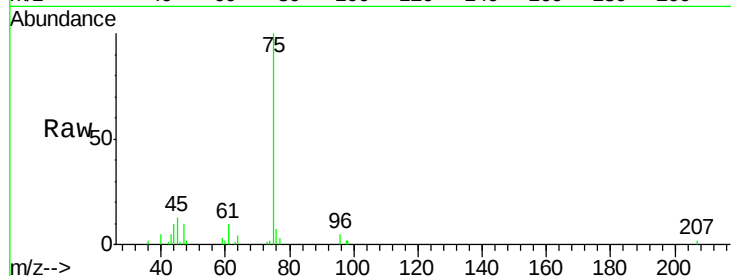
TU032-FD04-121020

Tgt Ion: 43 Resp: 789

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#27

cis-1,2-Dichloroethene

Concen: 30.851 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

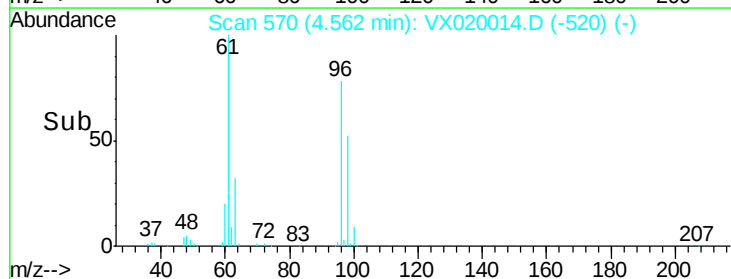
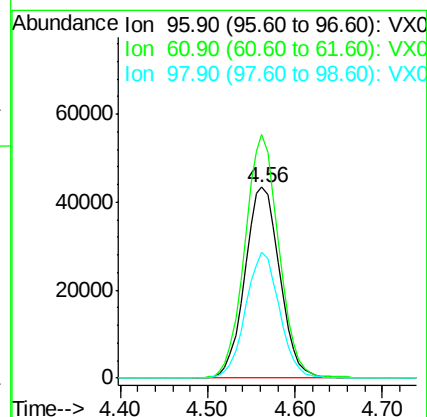
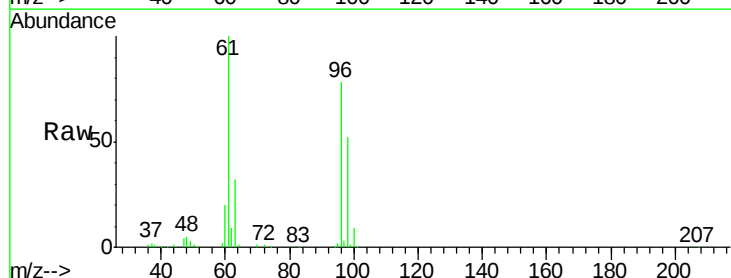
Tgt Ion: 96 Resp: 120499

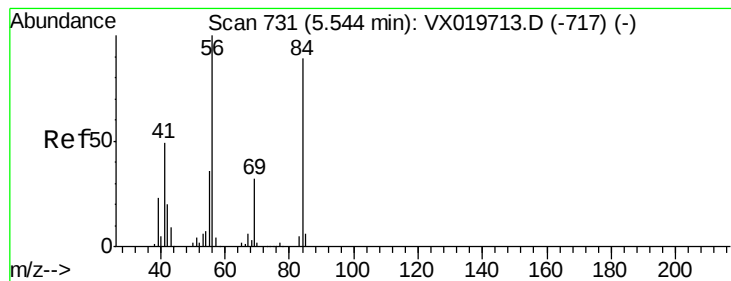
Ion Ratio Lower Upper

96 100

61 125.0 0.0 285.6

98 63.9 0.0 129.6





#31

Cyclohexane

Concen: 1.192 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

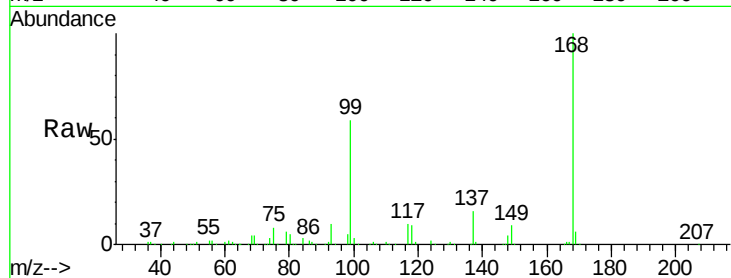
Tgt Ion: 56 Resp: 6089

Ion Ratio Lower Upper

56 100

69 198.2 25.3 37.9#

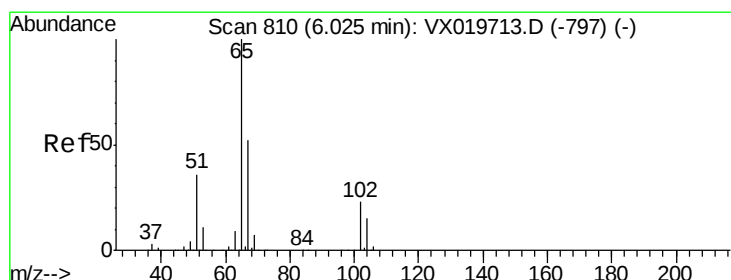
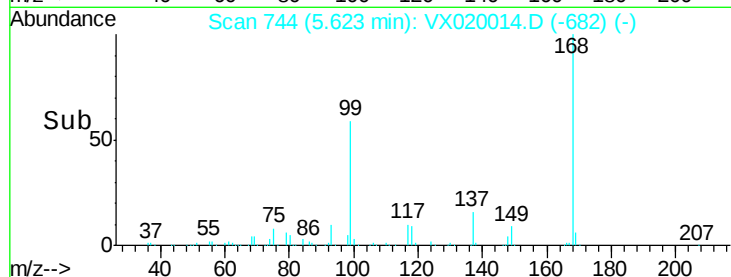
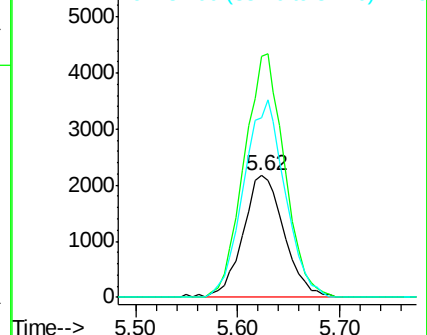
84 147.7 71.4 107.0#



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: 48.696 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX020014.D

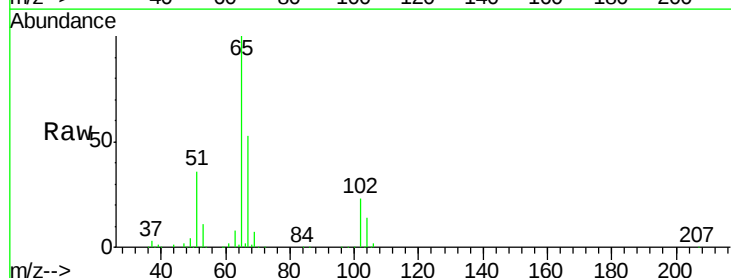
Acq: 15 Dec 2020 16:11

Tgt Ion: 65 Resp: 199973

Ion Ratio Lower Upper

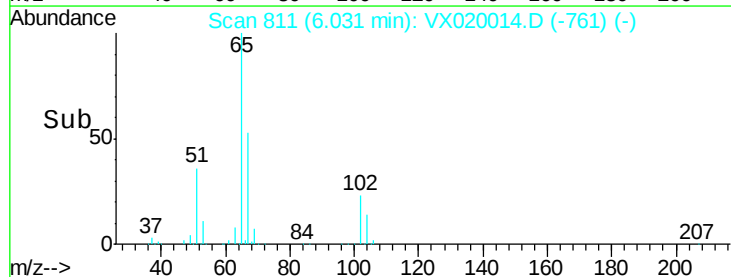
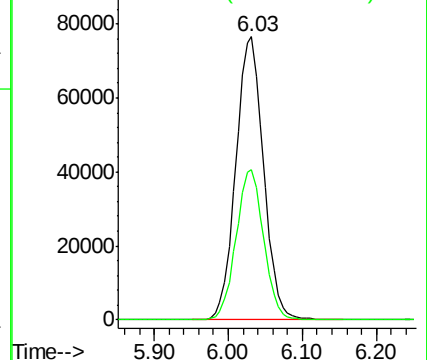
65 100

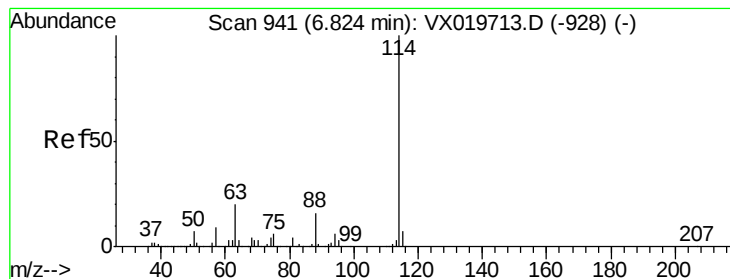
67 52.8 0.0 105.4



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: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

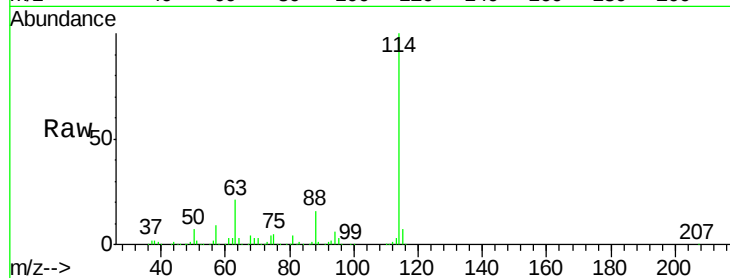
Tgt Ion:114 Resp: 517182

Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

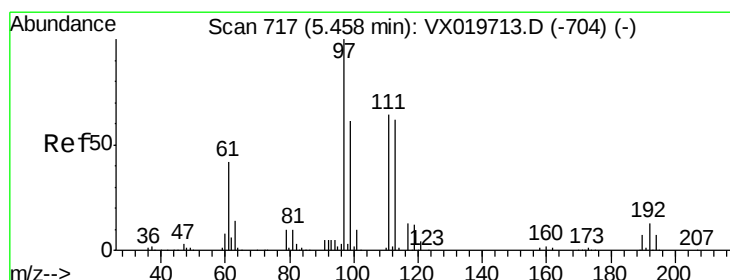
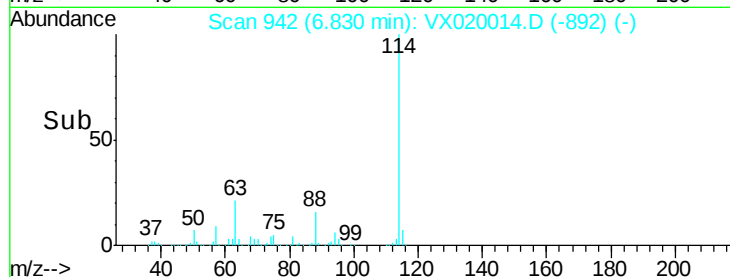
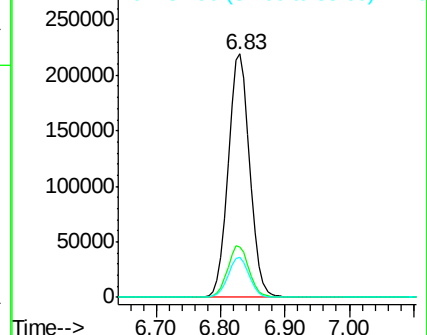
88 16.2 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.562 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

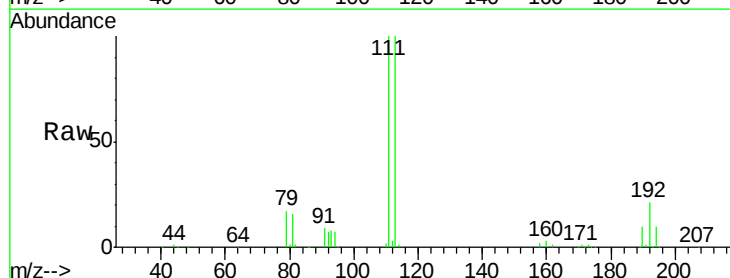
Tgt Ion:113 Resp: 162316

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

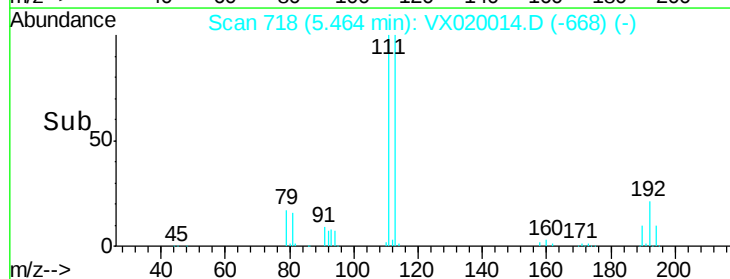
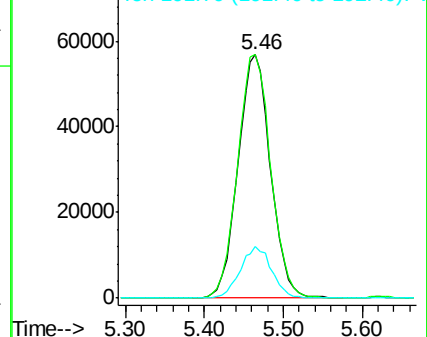
192 20.6 16.7 25.1

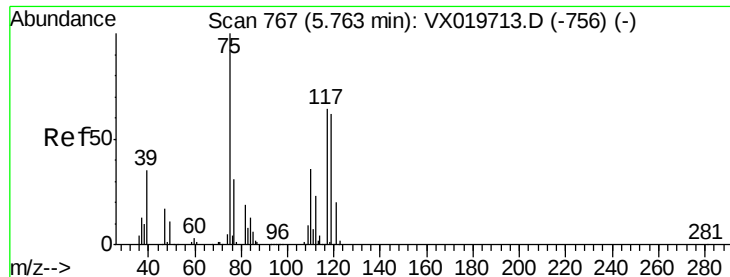


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.157 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

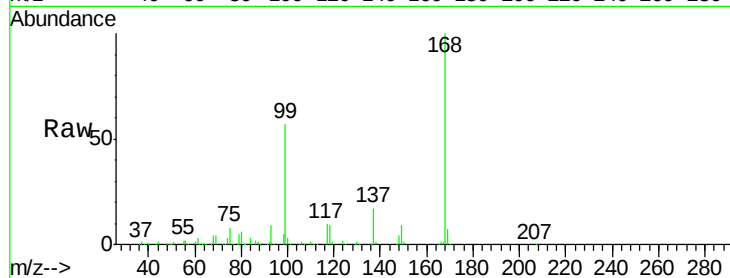
Tgt Ion: 75 Resp: 24103

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

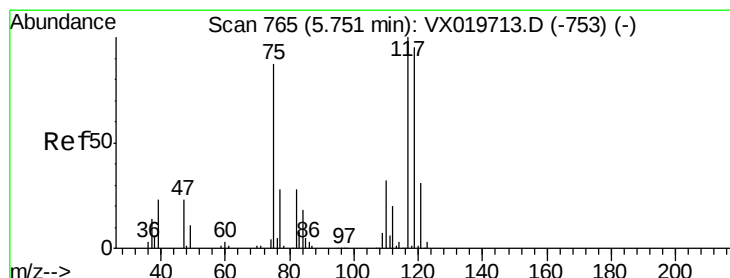
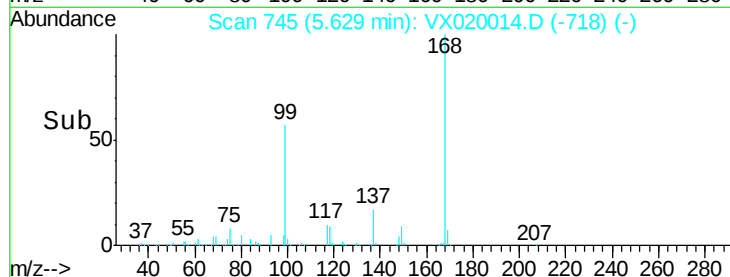
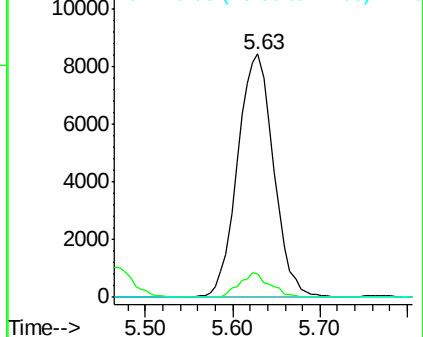
77 0.0 25.3 37.9#



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: 6.677 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

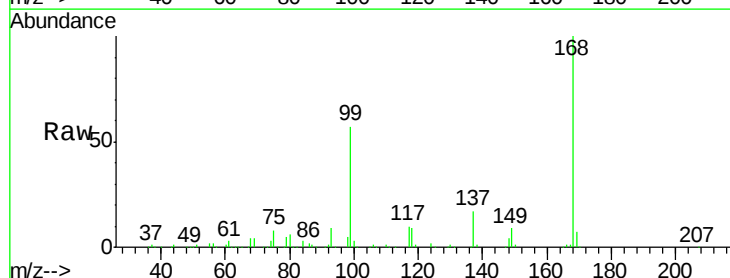
Tgt Ion: 117 Resp: 30555

Ion Ratio Lower Upper

117 100

119 6.4 76.2 114.2#

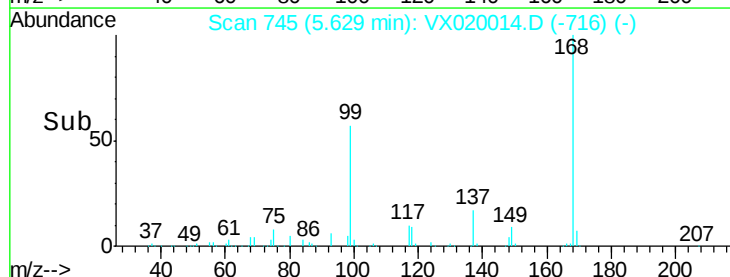
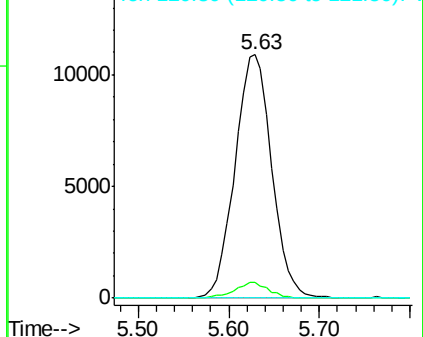
121 0.0 24.8 37.2#

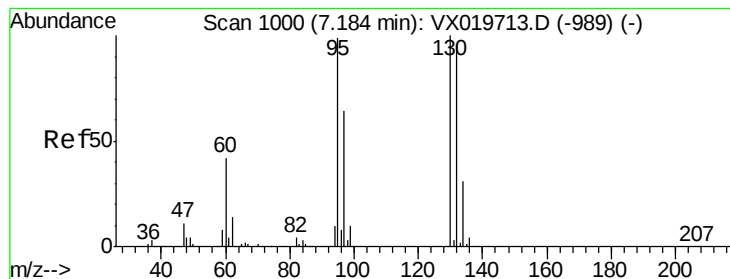


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 1.150 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

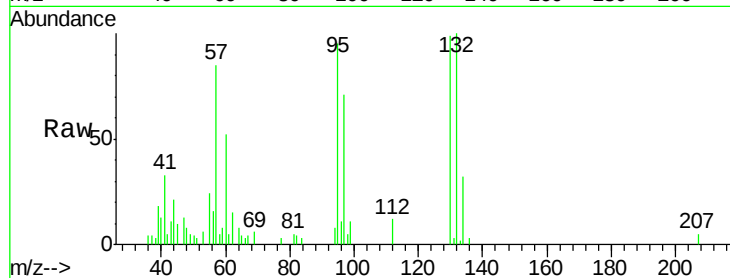
TU032-FD04-121020

Tgt Ion:130 Resp: 4306

Ion Ratio Lower Upper

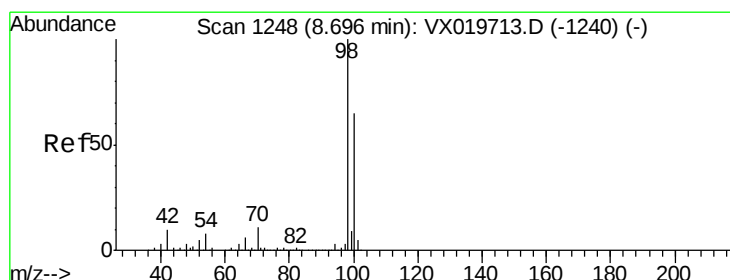
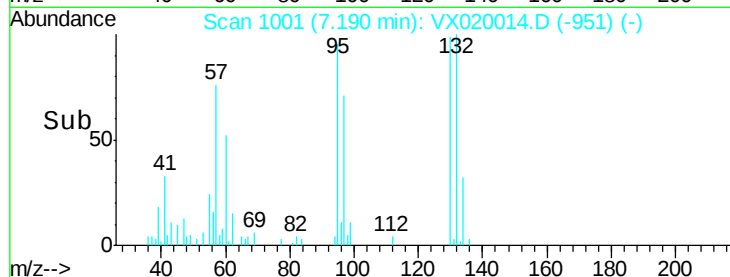
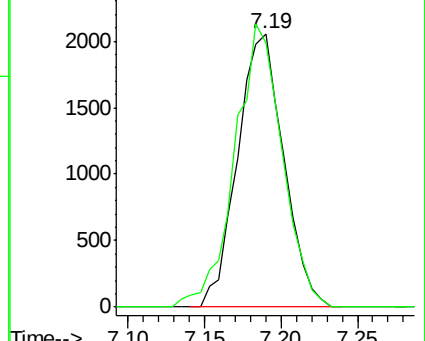
130 100

95 96.4 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.033 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX020014.D

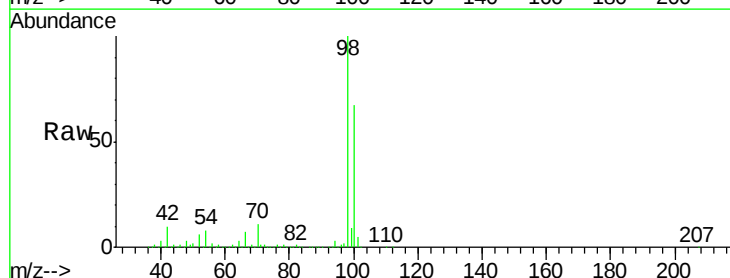
Acq: 15 Dec 2020 16:11

Tgt Ion: 98 Resp: 625701

Ion Ratio Lower Upper

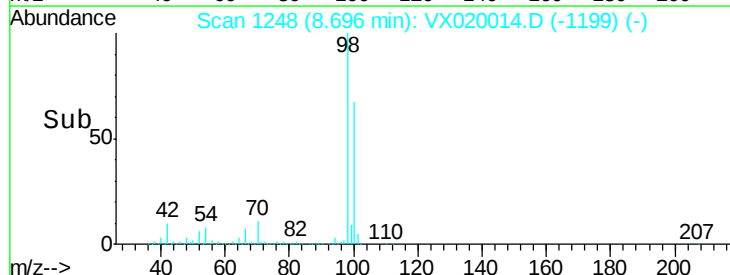
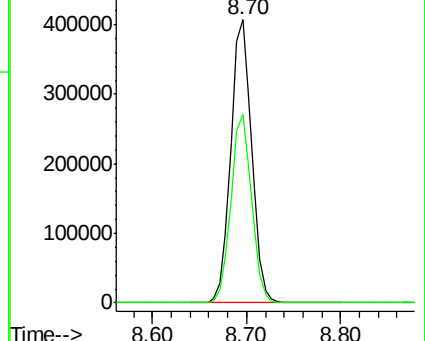
98 100

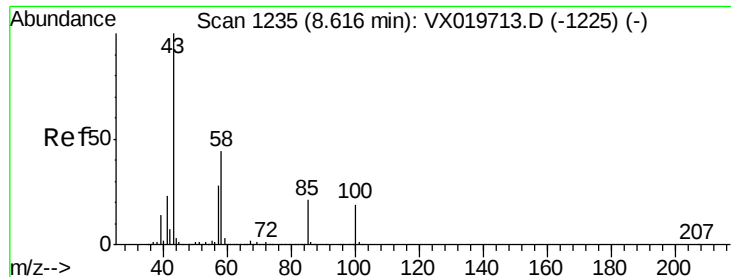
100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

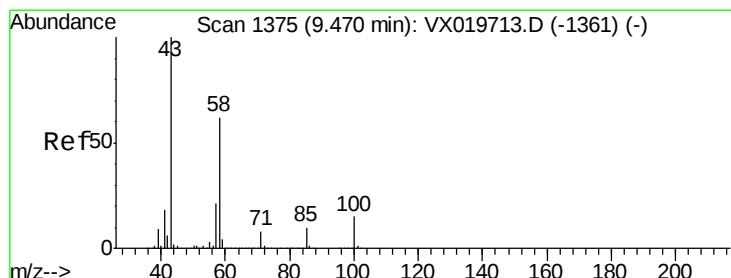
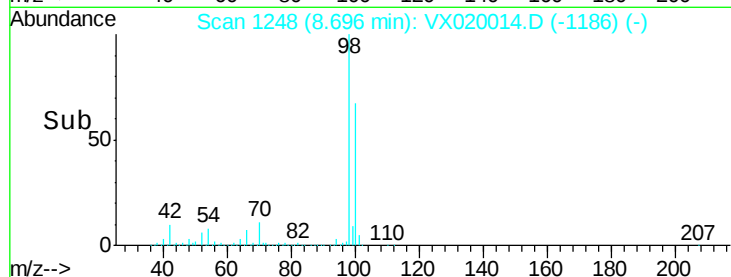
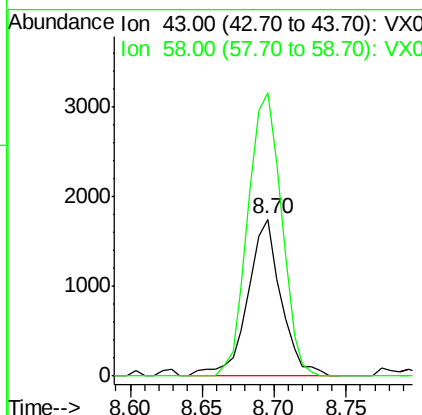
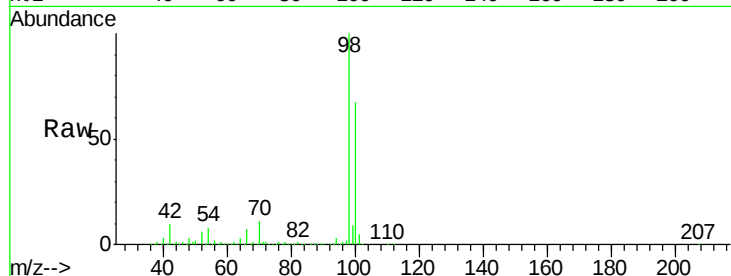




#51
 4-Methyl-2-Pentanone
 Concen: 0.598 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.08 min
 Lab File: VX020014.D
 Acq: 15 Dec 2020 16:11

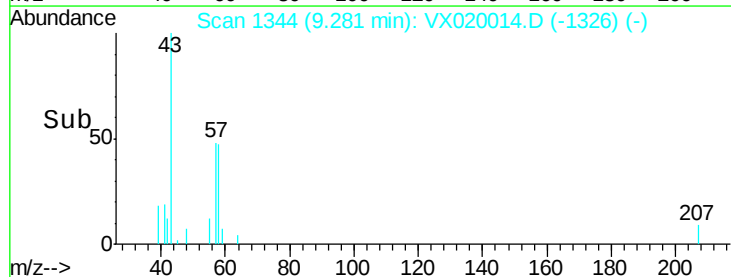
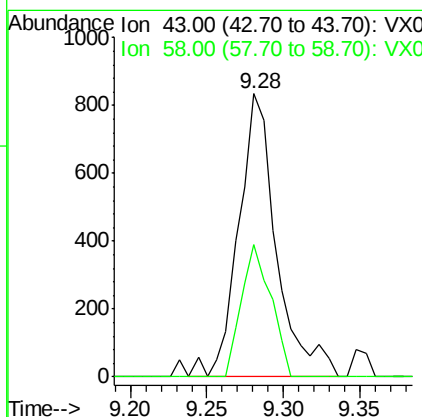
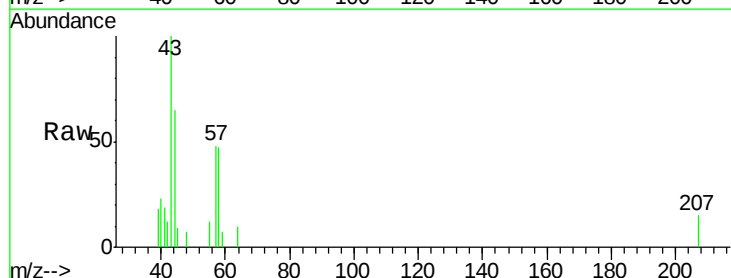
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-FD04-121020

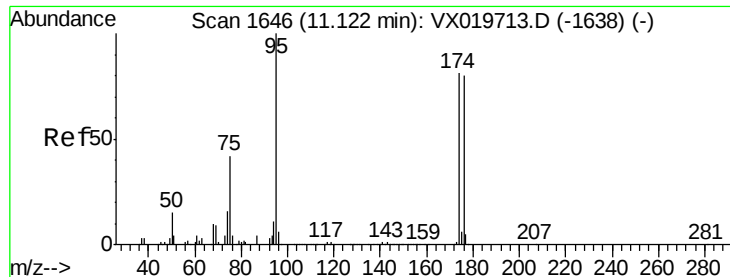
Tgt Ion: 43 Resp: 2799
 Ion Ratio Lower Upper
 43 100
 58 181.2 35.4 53.0#



#59
 2-Hexanone
 Concen: 0.395 ug/l
 RT: 9.28 min Scan# 1344
 Delta R.T. -0.19 min
 Lab File: VX020014.D
 Acq: 15 Dec 2020 16:11

Tgt Ion: 43 Resp: 1435
 Ion Ratio Lower Upper
 43 100
 58 36.4 30.9 92.8





#62

4-Bromofluorobenzene

Concen: 45.237 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.01 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

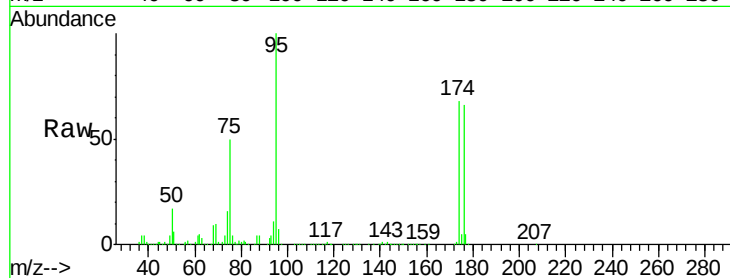
Tgt Ion: 95 Resp: 219713

Ion Ratio Lower Upper

95 100

174 76.8 0.0 154.6

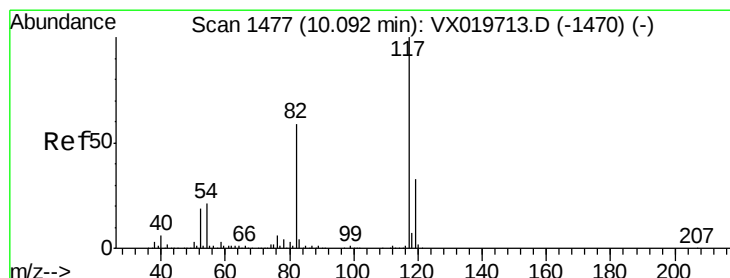
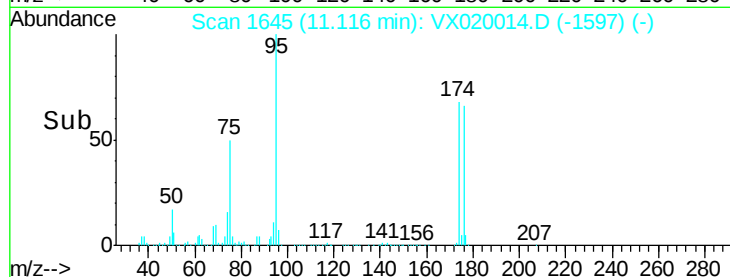
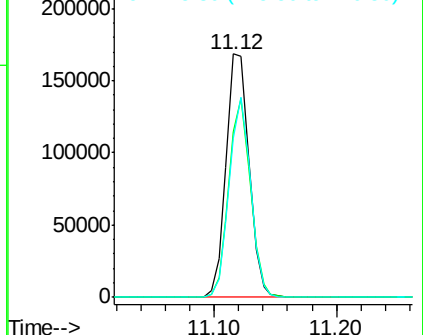
176 76.3 0.0 155.8



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: VX020014.D

Acq: 15 Dec 2020 16:11

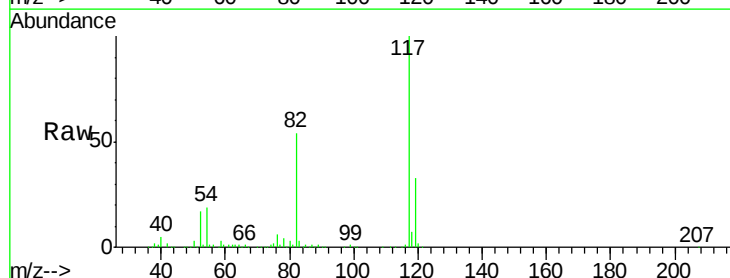
Tgt Ion: 117 Resp: 474645

Ion Ratio Lower Upper

117 100

82 54.0 47.4 71.2

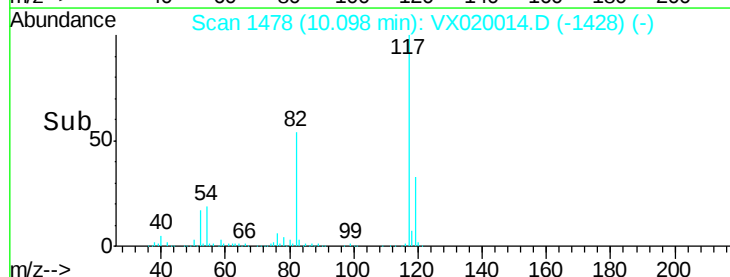
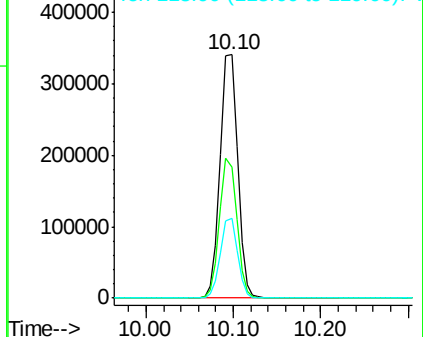
119 32.6 26.6 39.8

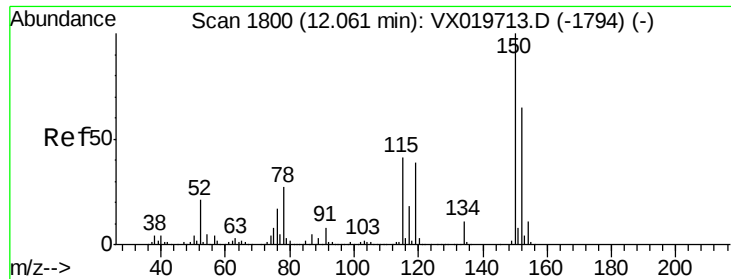


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

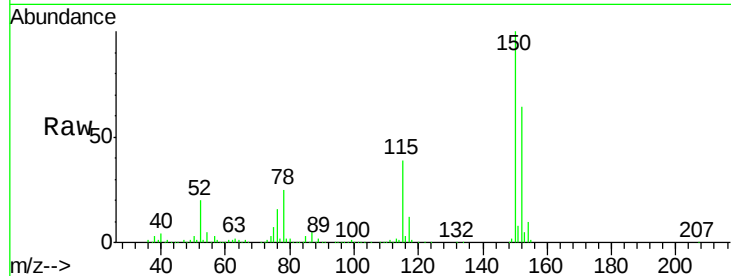
Tgt Ion:152 Resp: 206210

Ion Ratio Lower Upper

152 100

115 60.8 41.1 123.3

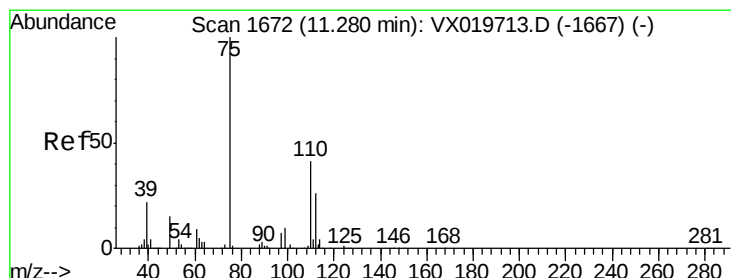
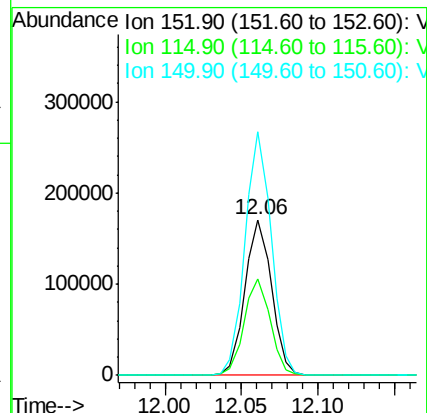
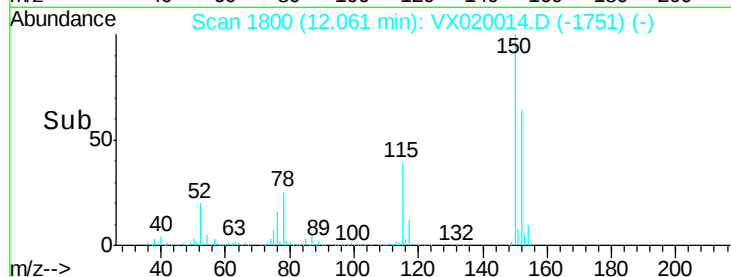
150 154.4 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.987 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX020014.D

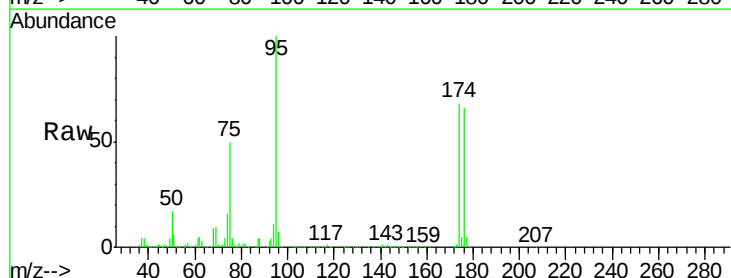
Acq: 15 Dec 2020 16:11

Tgt Ion: 75 Resp: 106314

Ion Ratio Lower Upper

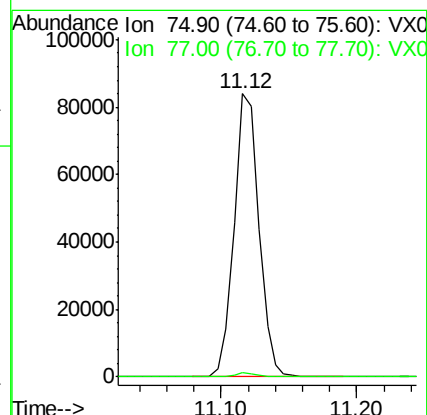
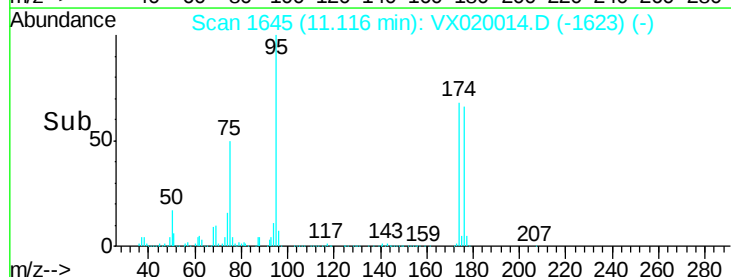
75 100

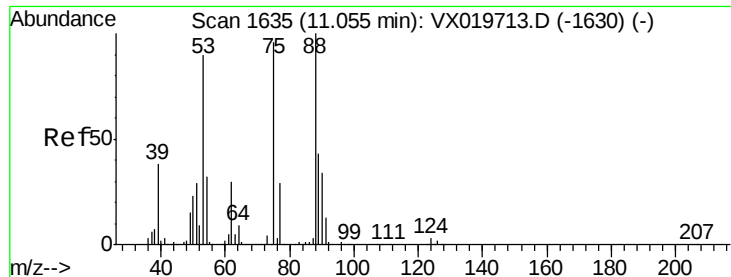
77 1.3 19.1 57.5#



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: 66.452 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX020014.D

Acq: 15 Dec 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

TU032-FD04-121020

Tgt Ion: 75 Resp: 106314

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

