

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019983.D
 Acq On : 14 Dec 2020 13:55
 Operator : JC/MD
 Sample : L5052-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5227-121020

Quant Time: Dec 15 00:22:49 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	305559	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	513309	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	470285	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	208900	50.00	ug/l	0.00

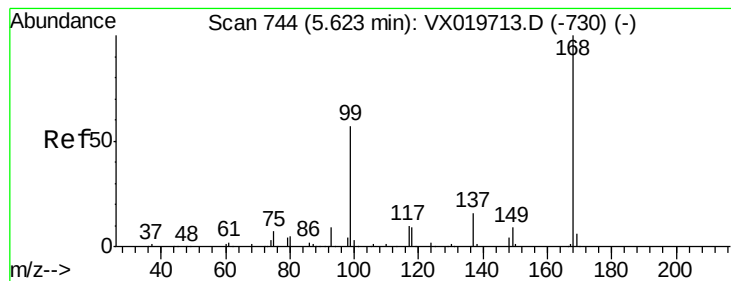
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	195449	48.67	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.34%
35) Dibromofluoromethane	5.46	113	160286	48.32	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.64%
50) Toluene-d8	8.70	98	621581	49.08	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.16%
62) 4-Bromofluorobenzene	11.12	95	224948	46.66	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	93.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.18	85	3512	1.255 ug/l	95
3) Chloromethane	1.31	50	2081	0.633 ug/l	93
4) Vinyl Chloride	1.39	62	1856	0.535 ug/l	90
5) Bromomethane	1.63	94	343	0.298 ug/l	90
6) Chloroethane	1.71	64	1536	0.737 ug/l #	64
13) Acrolein	2.29	56	91	0.205 ug/l #	14
14) Allyl chloride	2.57	41	3160	0.668 ug/l #	59
16) Acetone	2.42	43	6510	4.313 ug/l	99
18) Methyl Acetate	2.75	43	1194	0.323 ug/l #	68
20) Methylene Chloride	2.84	84	1837	Below Cal	92
21) trans-1,2-Dichloroethene	3.14	96	3671	1.125 ug/l	99
25) 2-Butanone	4.64	43	878	0.379 ug/l #	88
27) cis-1,2-Dichloroethene	4.56	96	19130	5.008 ug/l	95
31) Cyclohexane	5.63	56	6110	1.223 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23697	5.109 ug/l #	49
38) Carbon Tetrachloride	5.63	117	30218	6.653 ug/l #	16
44) Trichloroethene	7.18	130	1154	0.310 ug/l	79
76) 1,2,3-Trichloropropane	11.12	75	107268	22.895 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107268	66.185 ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

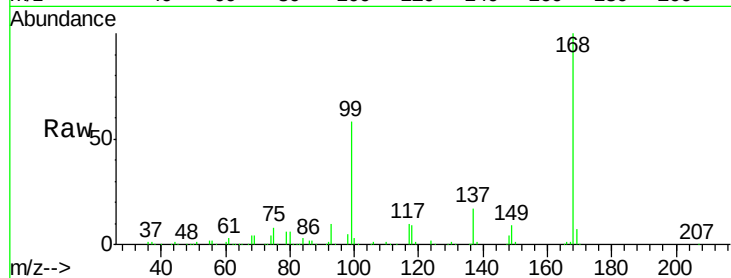
TU032-32-5227-121020

Tgt Ion:168 Resp: 305559

Ion Ratio Lower Upper

168 100

99 57.9 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

120000

100000

80000

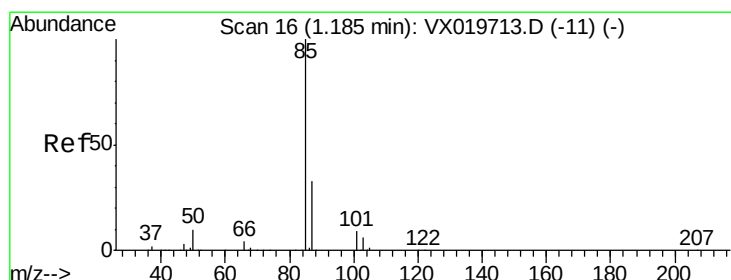
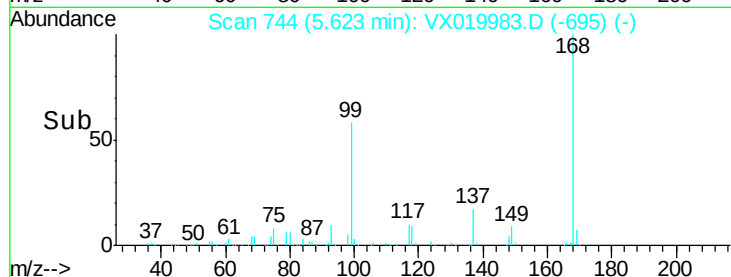
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.255 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019983.D

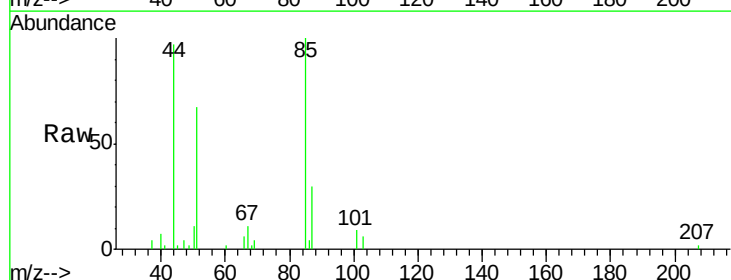
Acq: 14 Dec 2020 13:55

Tgt Ion: 85 Resp: 3512

Ion Ratio Lower Upper

85 100

87 30.0 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

4000

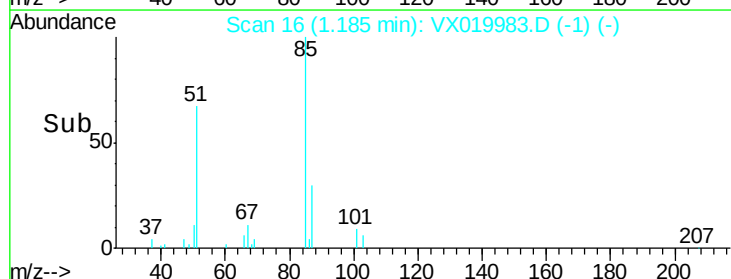
3000

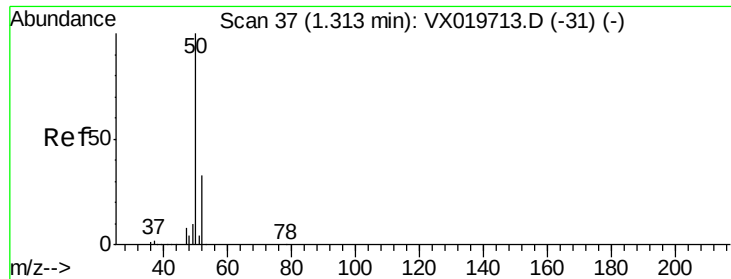
2000

1000

0

Time-->





#3

Chloromethane

Concen: 0.633 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

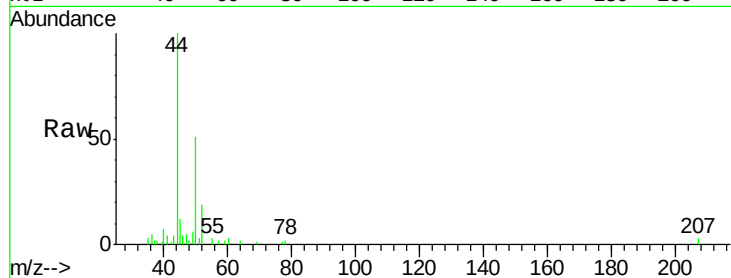
TU032-32-5227-121020

Tgt Ion: 50 Resp: 2081

Ion Ratio Lower Upper

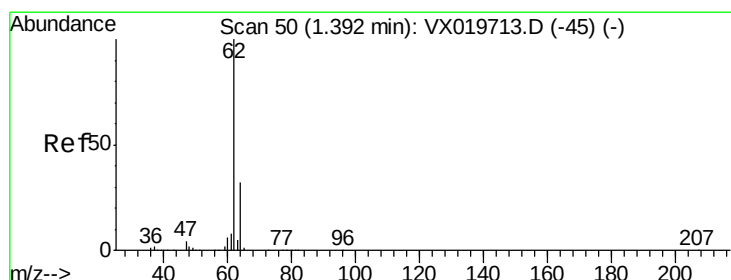
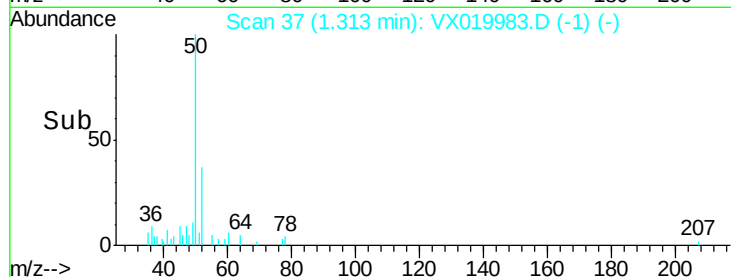
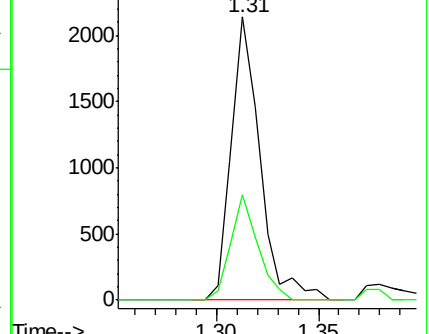
50 100

52 37.2 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: 0.535 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019983.D

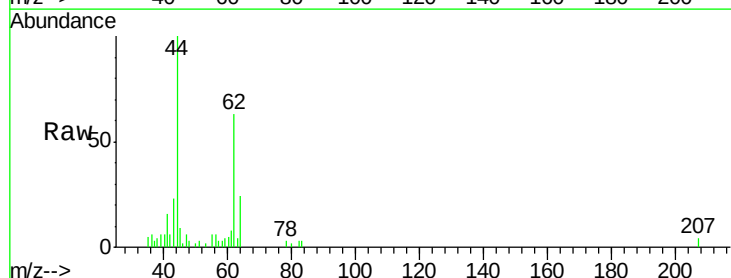
Acq: 14 Dec 2020 13:55

Tgt Ion: 62 Resp: 1856

Ion Ratio Lower Upper

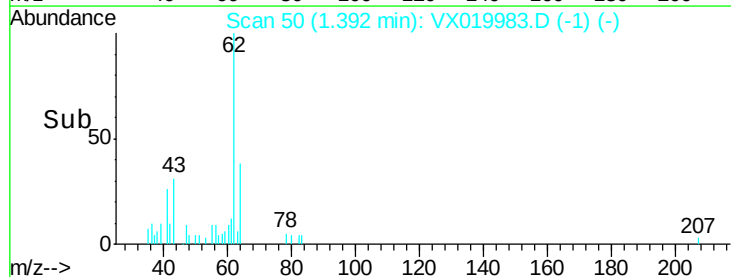
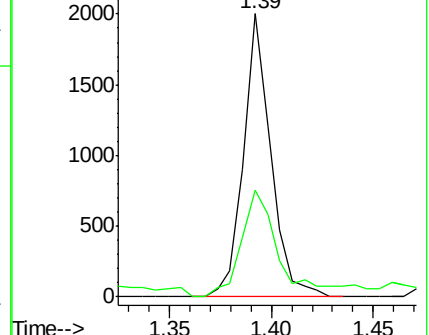
62 100

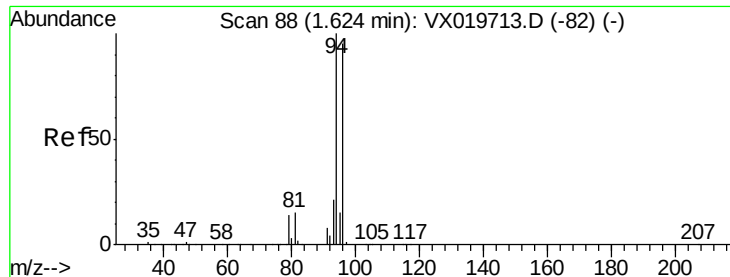
64 37.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.298 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

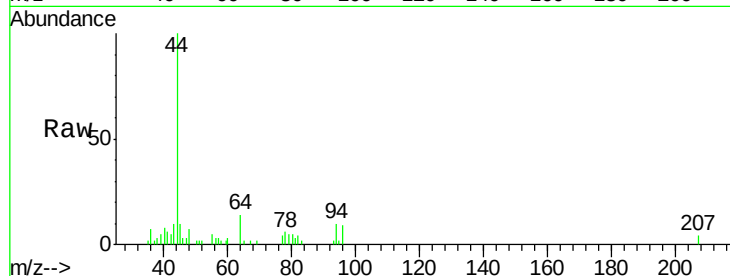
TU032-32-5227-121020

Tgt Ion: 94 Resp: 343

Ion Ratio Lower Upper

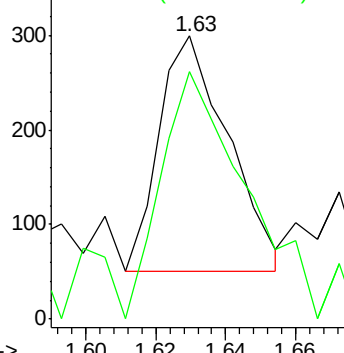
94 100

96 105.2 76.4 114.6

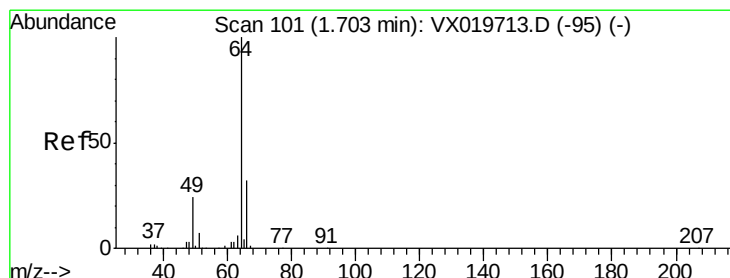
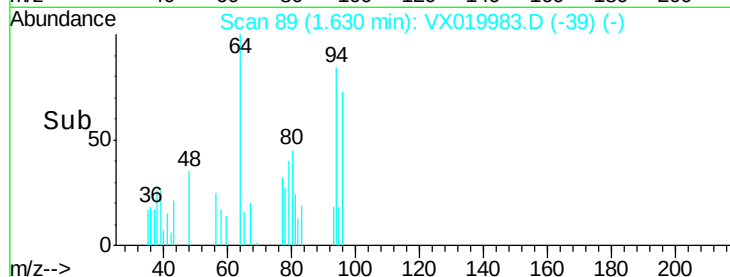


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.737 ug/l

RT: 1.71 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX019983.D

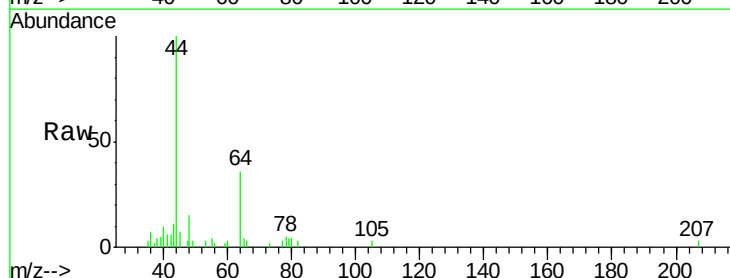
Acq: 14 Dec 2020 13:55

Tgt Ion: 64 Resp: 1536

Ion Ratio Lower Upper

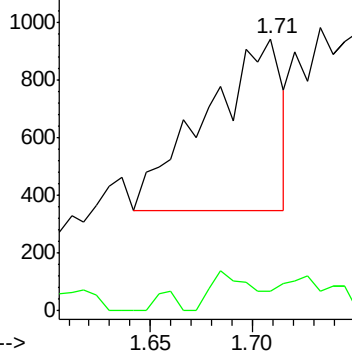
64 100

66 11.8 25.4 38.0#

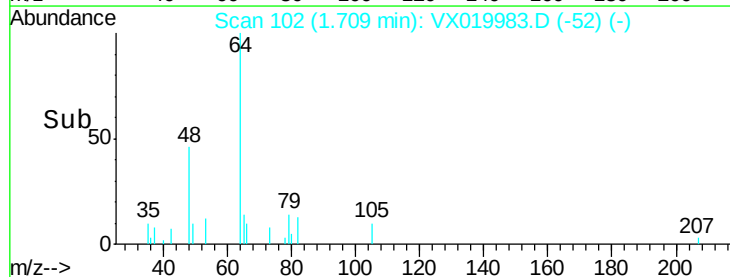


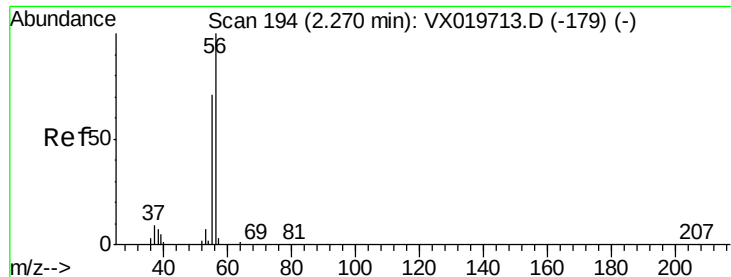
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#13

Acrolein

Concen: 0.205 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

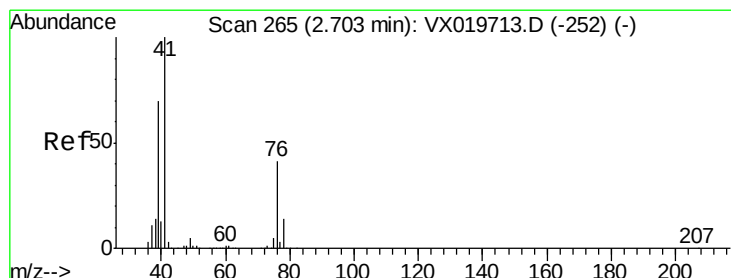
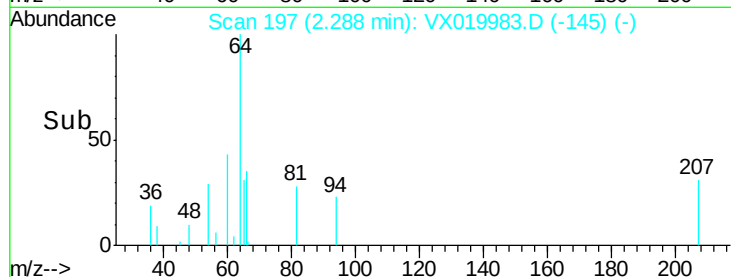
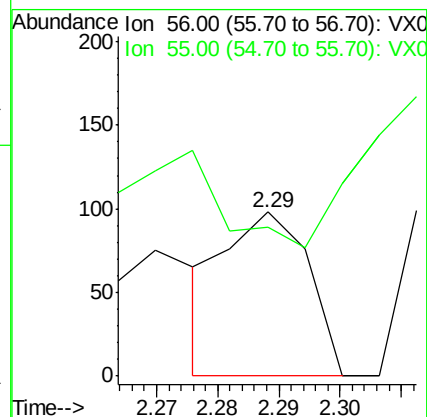
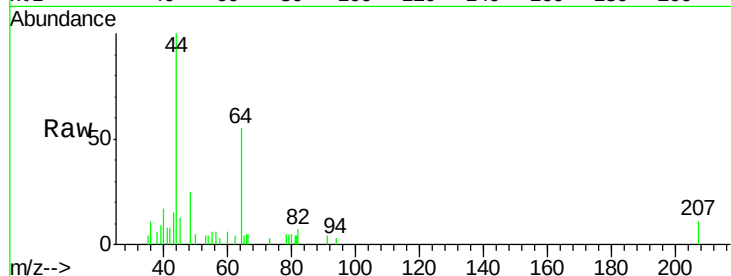
TU032-32-5227-121020

Tgt Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#



#14

Allyl chloride

Concen: 0.668 ug/l

RT: 2.57 min Scan# 244

Delta R.T. -0.13 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

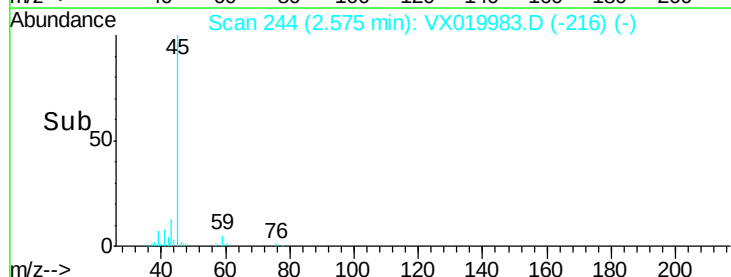
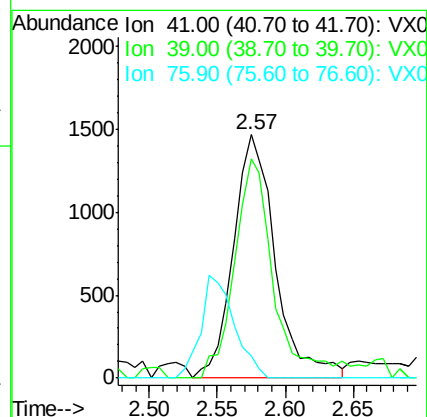
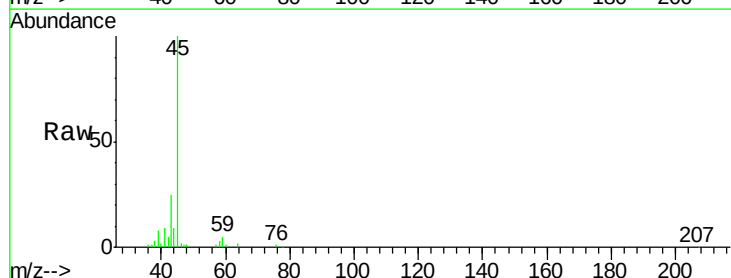
Tgt Ion: 41 Resp: 3160

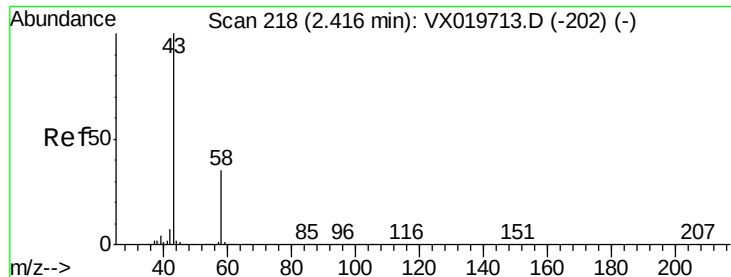
Ion Ratio Lower Upper

41 100

39 86.4 51.6 77.4#

76 0.0 30.5 45.7#





#16

Acetone

Concen: 4.313 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

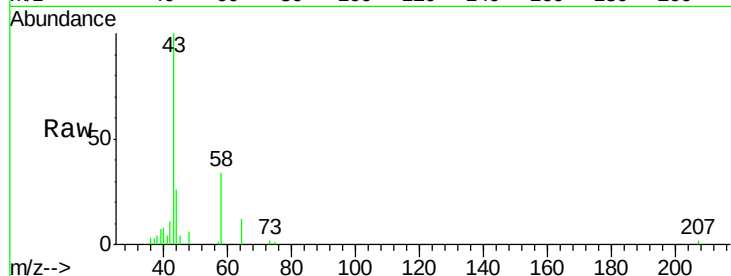
TU032-32-5227-121020

Tgt Ion: 43 Resp: 6510

Ion Ratio Lower Upper

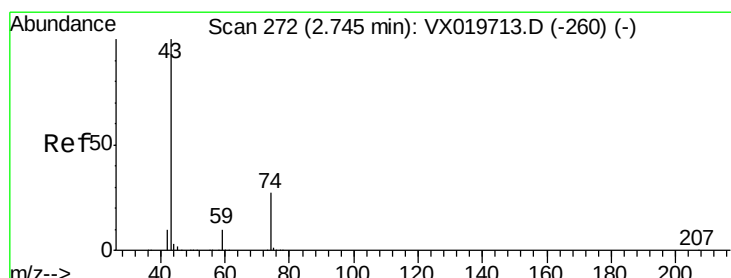
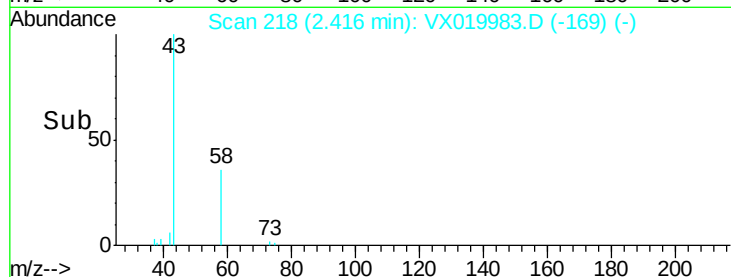
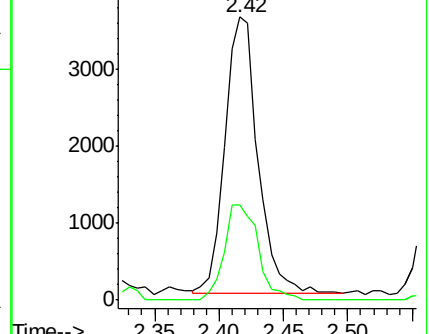
43 100

58 34.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.323 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019983.D

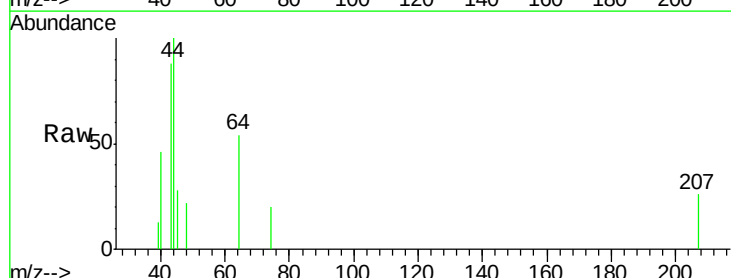
Acq: 14 Dec 2020 13:55

Tgt Ion: 43 Resp: 1194

Ion Ratio Lower Upper

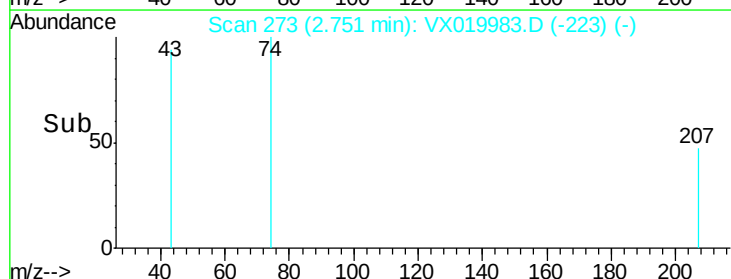
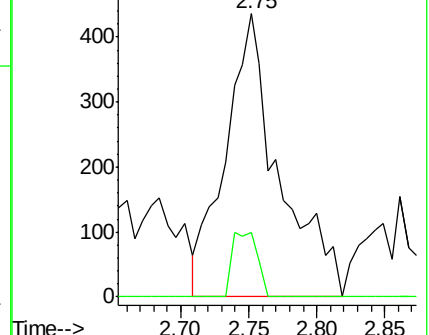
43 100

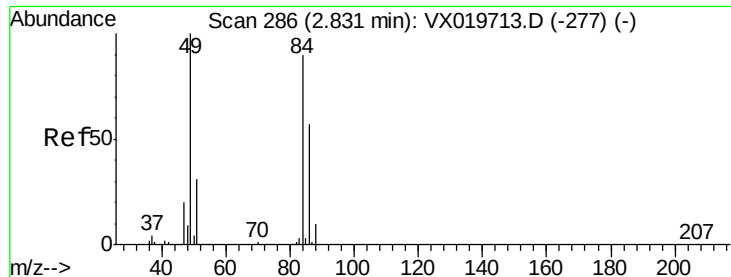
74 10.7 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



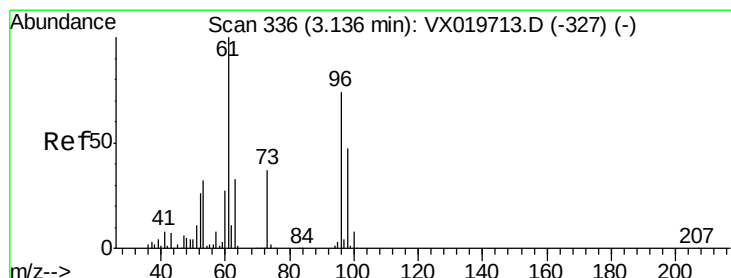
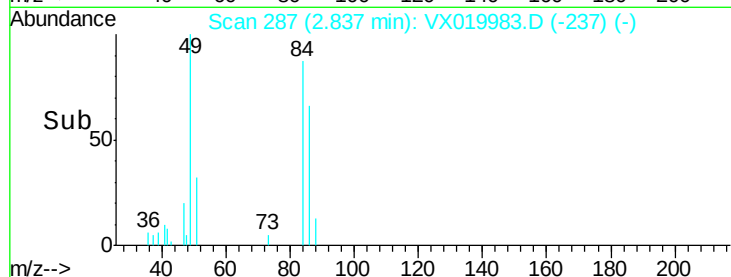
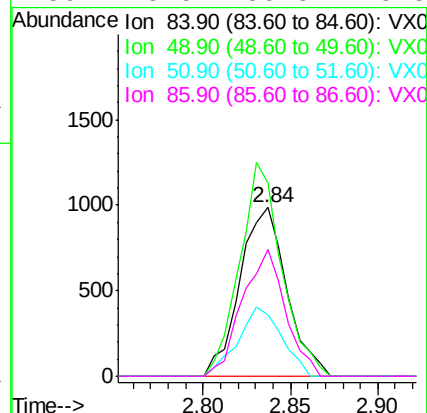
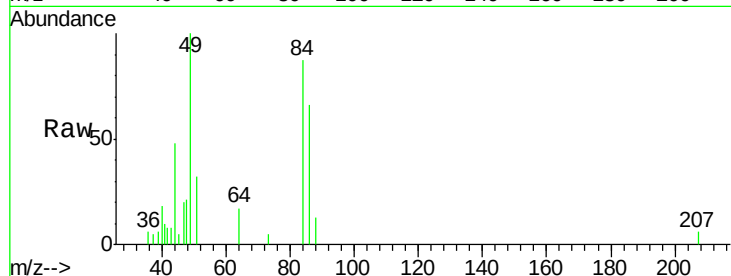


#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019983.D
Acq: 14 Dec 2020 13:55

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5227-121020

Tgt Ion: 84 Resp: 1837

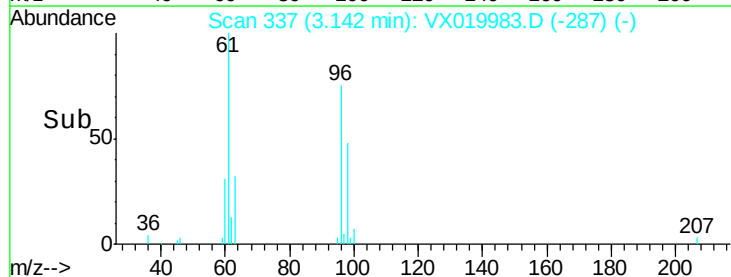
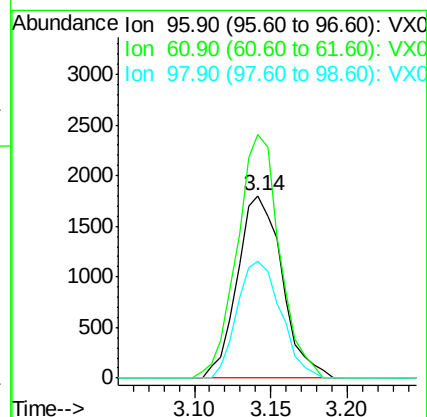
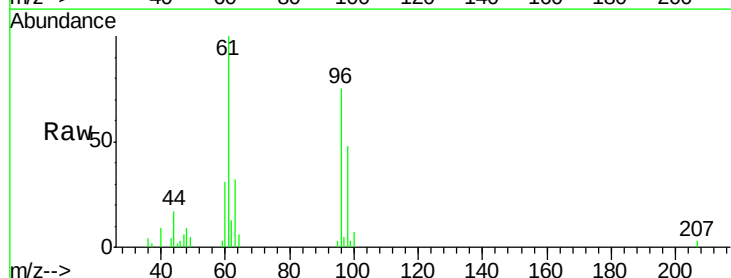
Ion	Ratio	Lower	Upper
84	100		
49	114.5	88.6	132.8
51	36.4	27.0	40.6
86	75.5	50.3	75.5

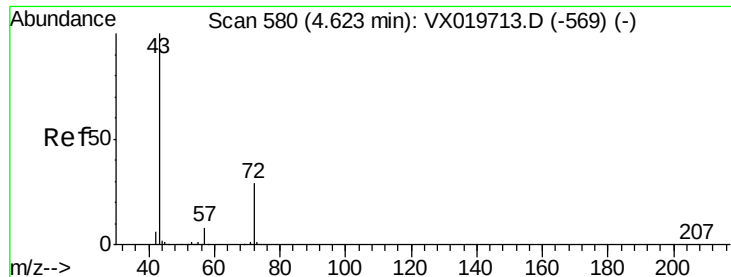


#21
trans-1,2-Dichloroethene
Concen: 1.125 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019983.D
Acq: 14 Dec 2020 13:55

Tgt Ion: 96 Resp: 3671

Ion	Ratio	Lower	Upper
96	100		
61	133.4	107.7	161.5
98	64.3	50.4	75.6





#25

2-Butanone

Concen: 0.379 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.02 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

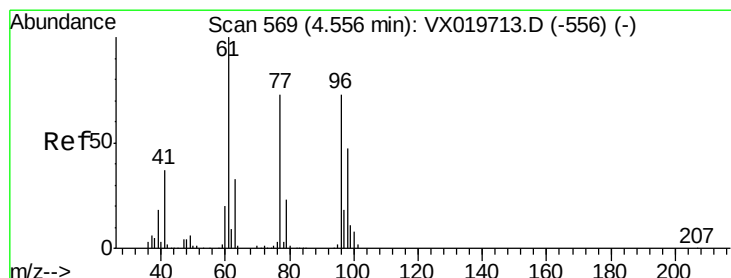
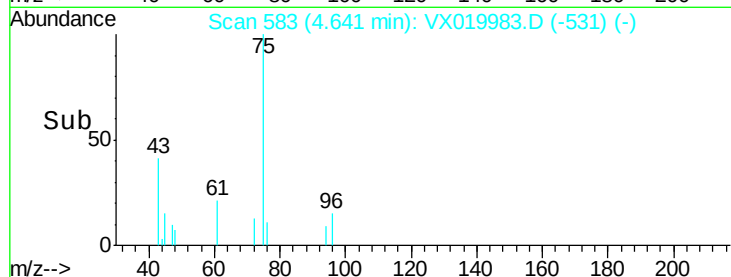
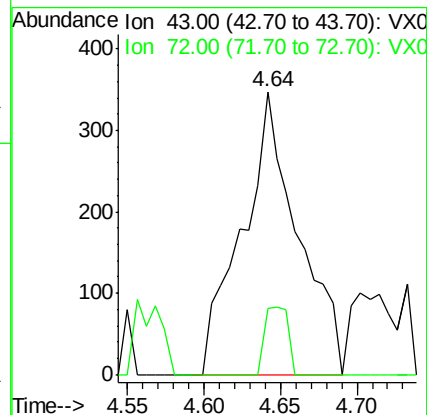
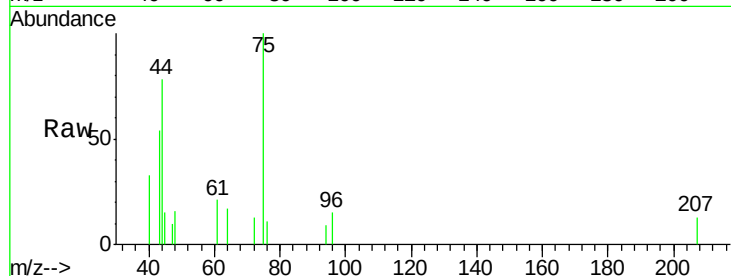
TU032-32-5227-121020

Tgt Ion: 43 Resp: 878

Ion Ratio Lower Upper

43 100

72 23.3 23.7 35.5#



#27

cis-1,2-Dichloroethene

Concen: 5.008 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

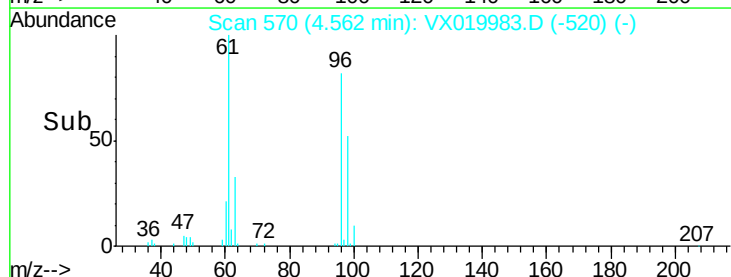
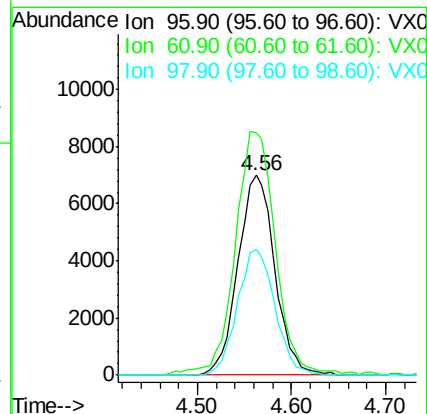
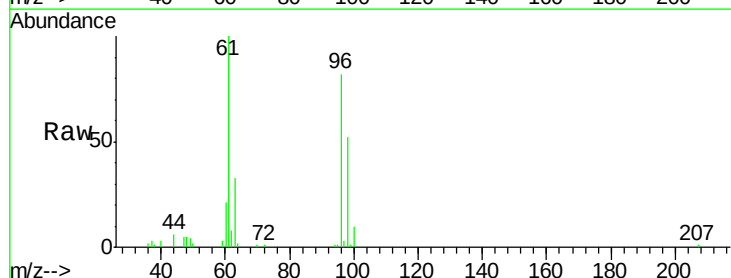
Tgt Ion: 96 Resp: 19130

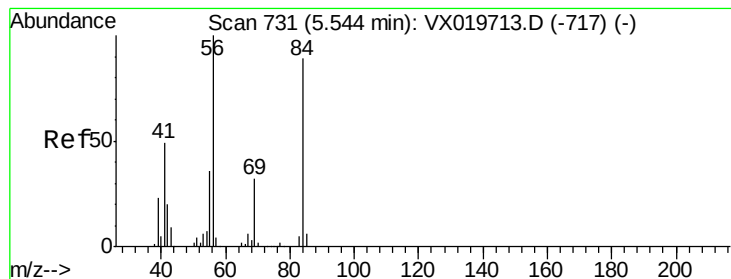
Ion Ratio Lower Upper

96 100

61 133.5 0.0 285.6

98 64.0 0.0 129.6





#31

Cyclohexane

Concen: 1.223 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.09 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

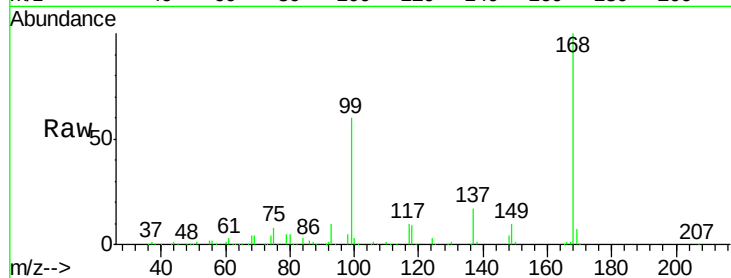
Tgt Ion: 56 Resp: 6110

Ion Ratio Lower Upper

56 100

69 188.1 25.3 37.9#

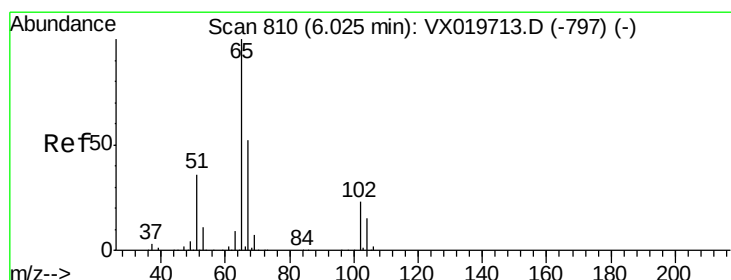
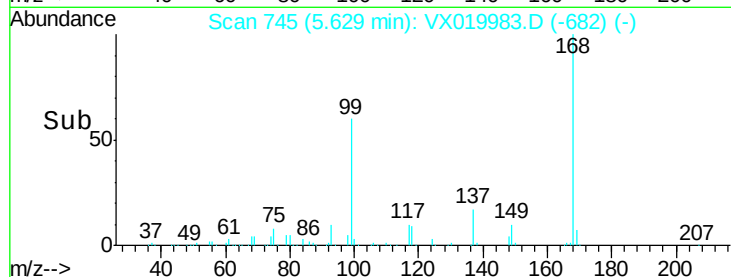
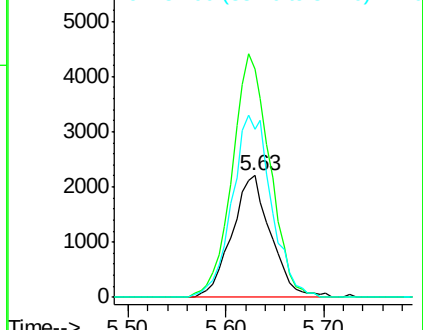
84 138.7 71.4 107.0#



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: 48.668 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX019983.D

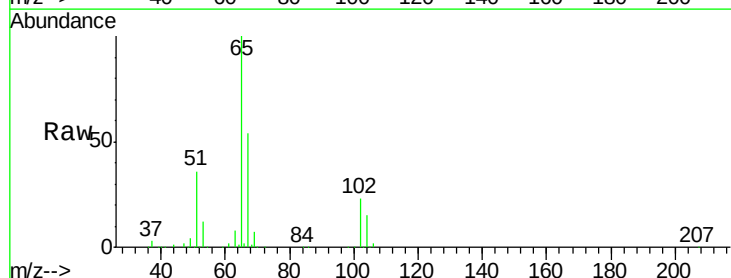
Acq: 14 Dec 2020 13:55

Tgt Ion: 65 Resp: 195449

Ion Ratio Lower Upper

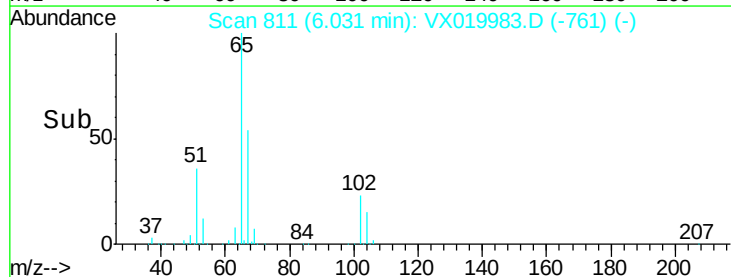
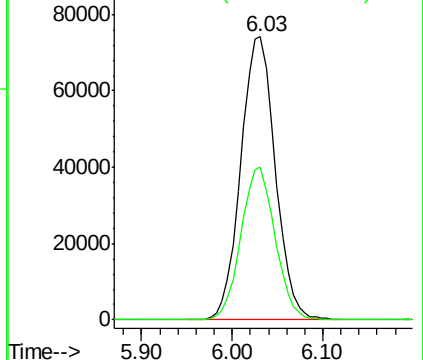
65 100

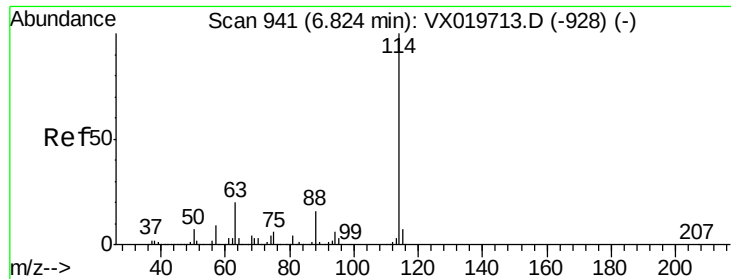
67 53.5 0.0 105.4



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: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

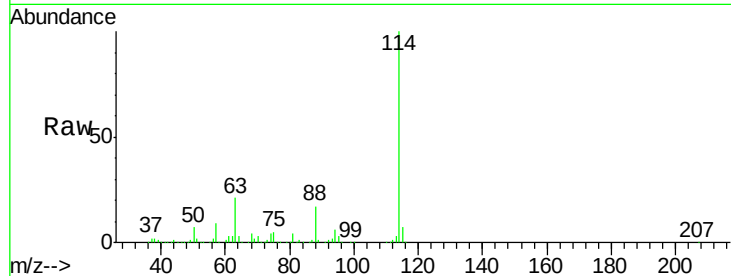
Tgt Ion:114 Resp: 513309

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

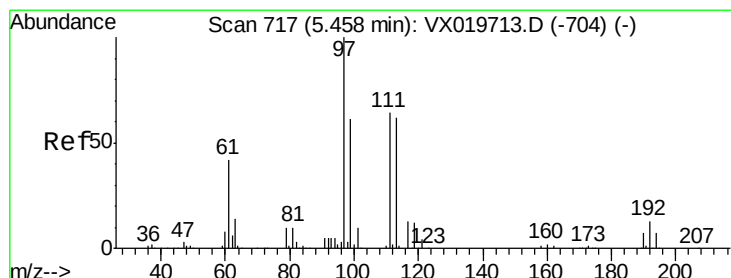
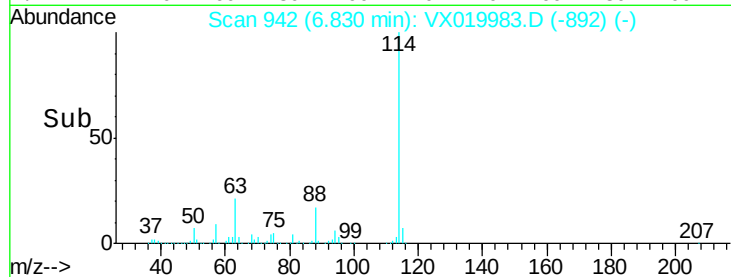
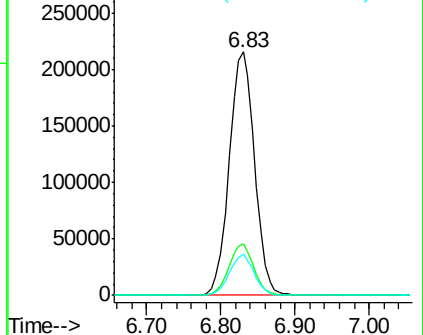
88 16.8 0.0 32.8



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: 48.316 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

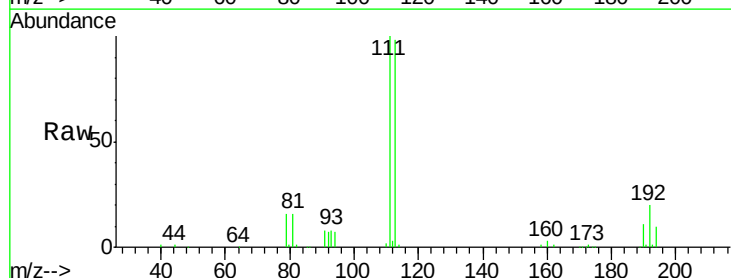
Tgt Ion:113 Resp: 160286

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

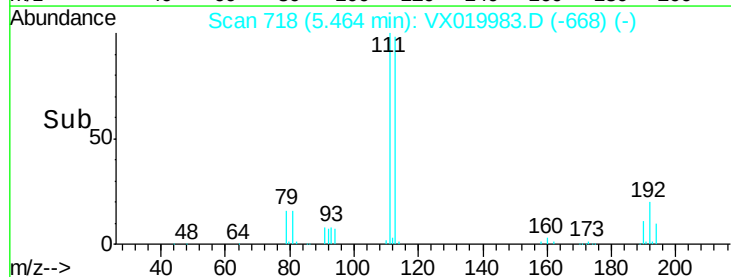
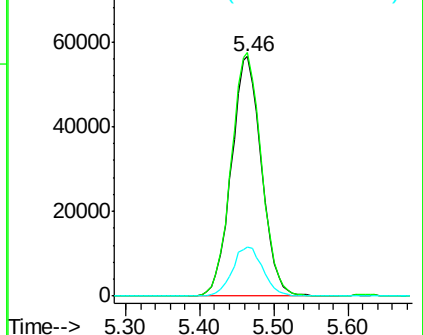
192 20.8 16.7 25.1

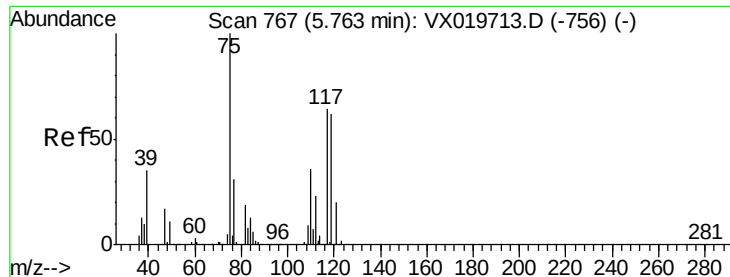


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

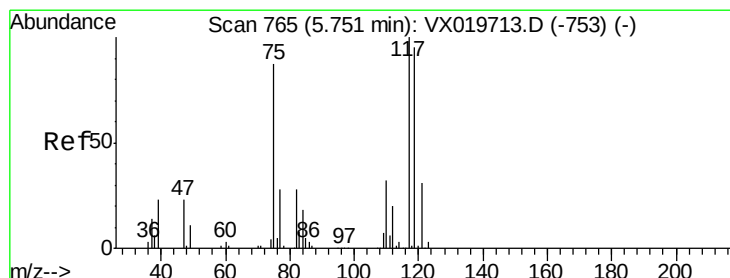
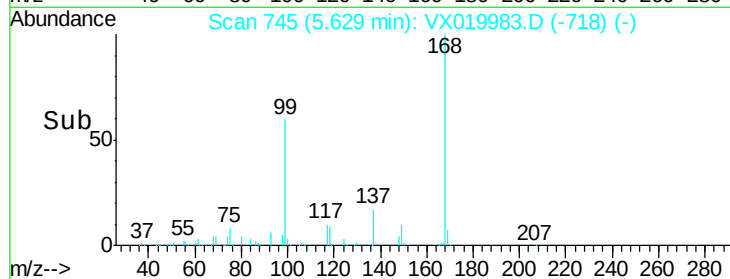
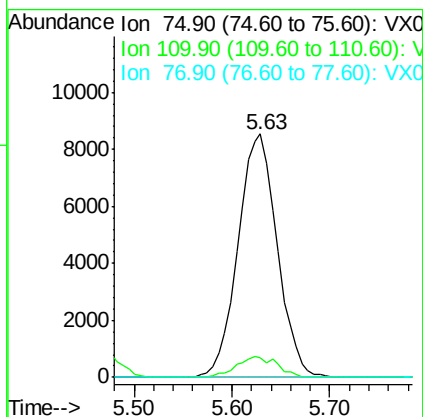
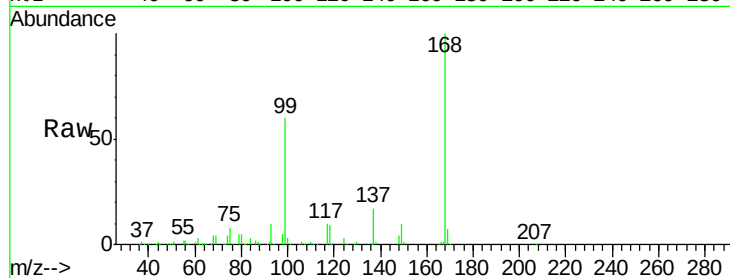




#36
 1,1-Dichloropropene
 Concen: 5.109 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019983.D
 Acq: 14 Dec 2020 13:55

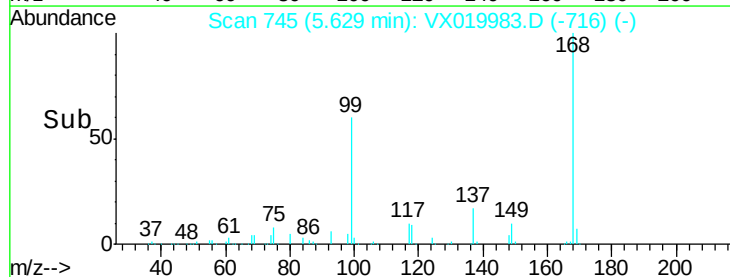
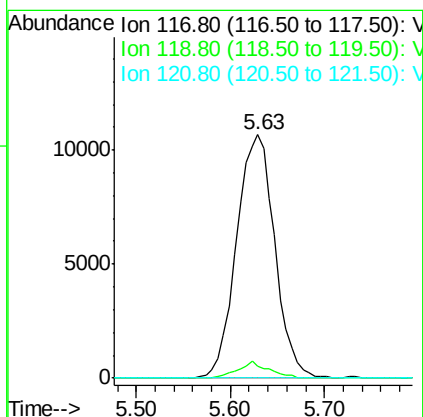
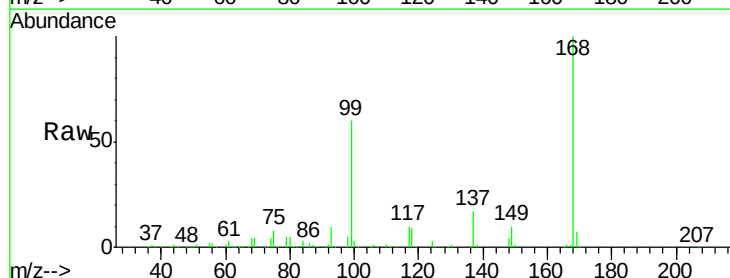
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5227-121020

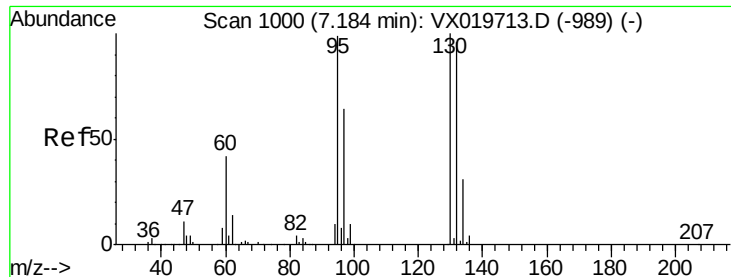
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.653 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019983.D
 Acq: 14 Dec 2020 13:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.2	114.2#
121	0.0	24.8	37.2#





#44

Trichloroethene

Concen: 0.310 ug/l

RT: 7.18 min Scan# 999

Delta R.T. -0.01 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

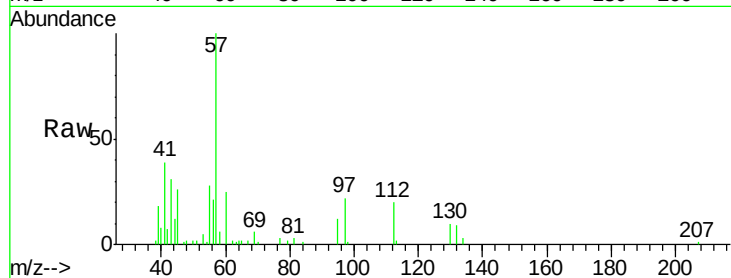
TU032-32-5227-121020

Tgt Ion:130 Resp: 1154

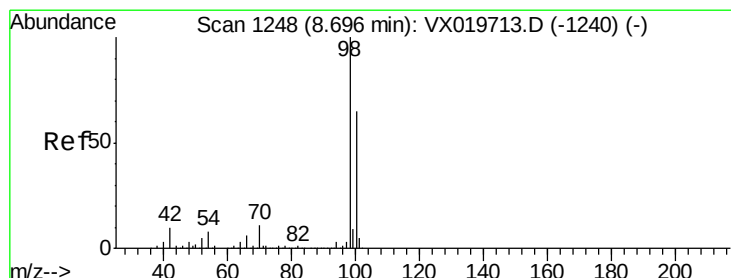
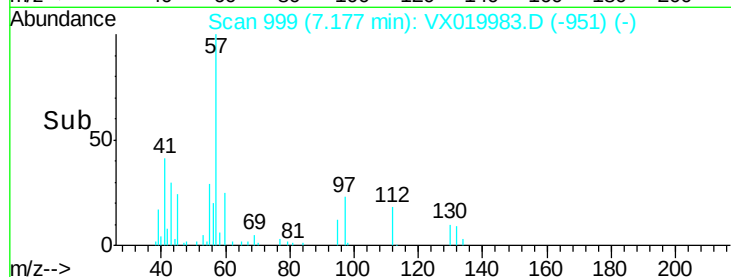
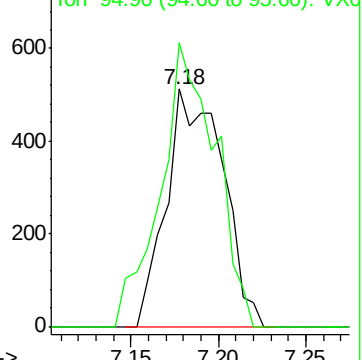
Ion Ratio Lower Upper

130 100

95 119.5 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 49.078 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019983.D

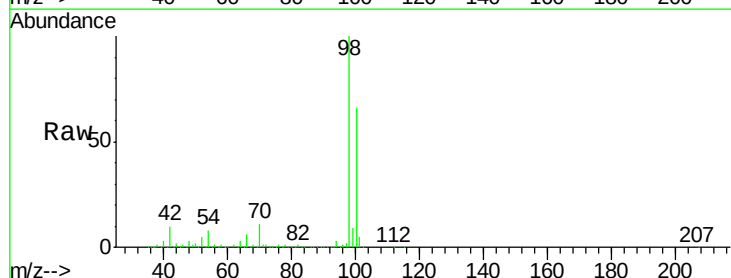
Acq: 14 Dec 2020 13:55

Tgt Ion: 98 Resp: 621581

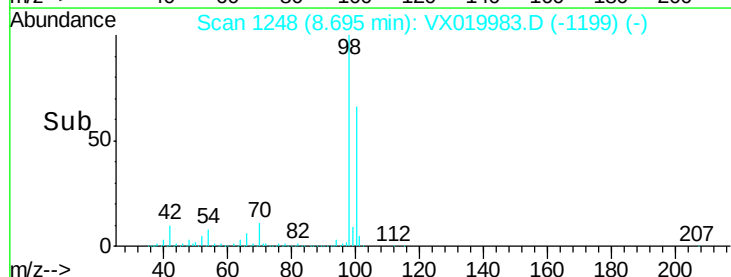
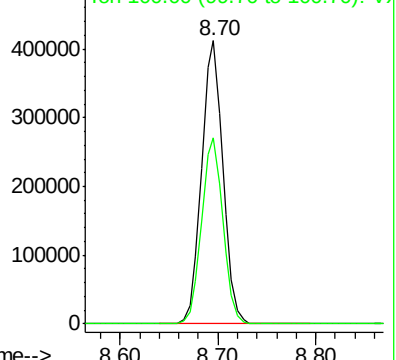
Ion Ratio Lower Upper

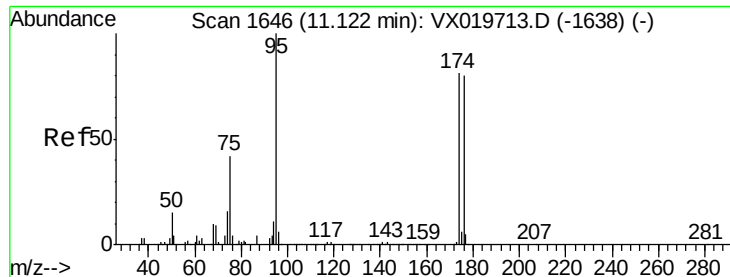
98 100

100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.665 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

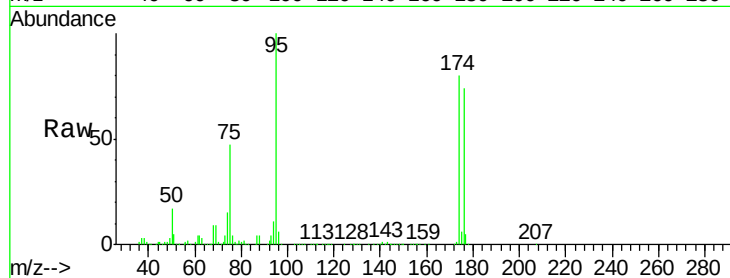
Tgt Ion: 95 Resp: 224948

Ion Ratio Lower Upper

95 100

174 77.2 0.0 154.6

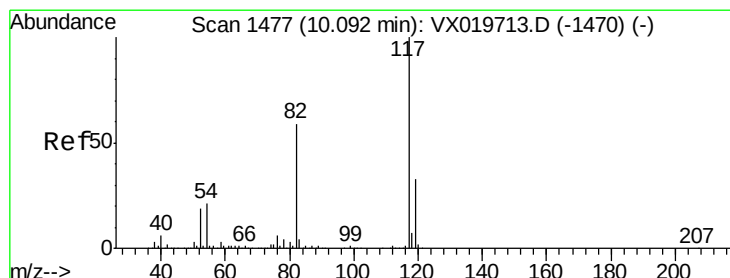
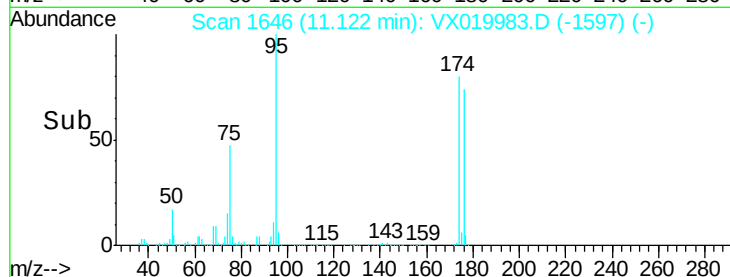
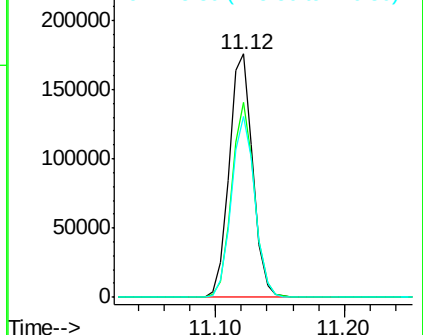
176 74.2 0.0 155.8



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: 10.09 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

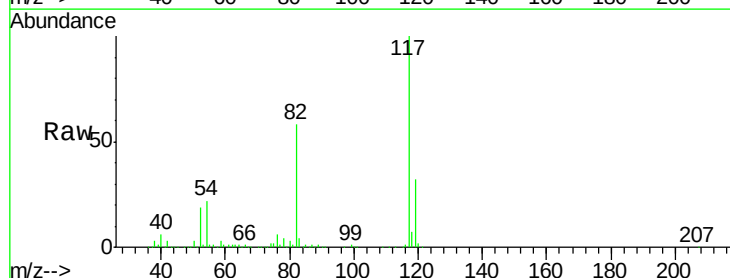
Tgt Ion: 117 Resp: 470285

Ion Ratio Lower Upper

117 100

82 58.3 47.4 71.2

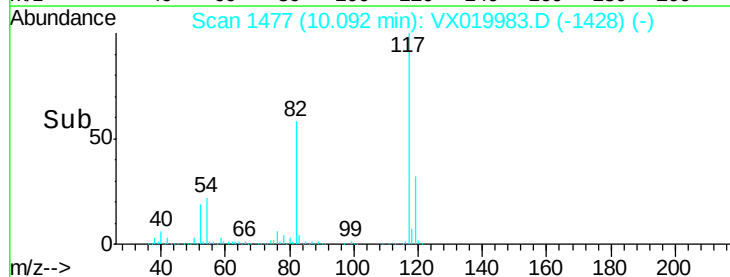
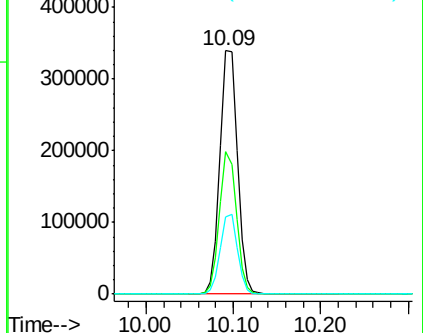
119 31.7 26.6 39.8

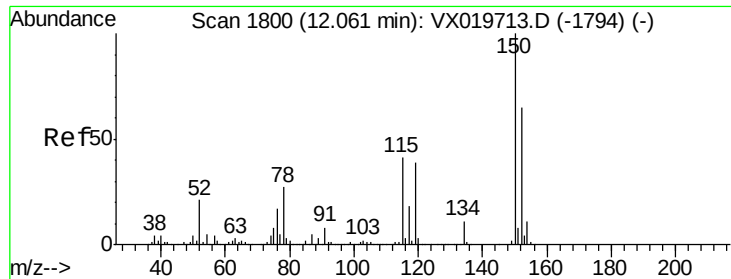


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

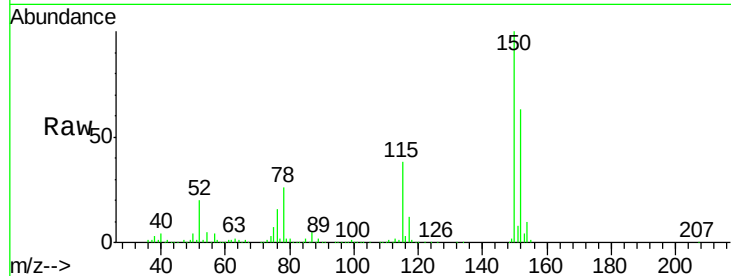
Tgt Ion:152 Resp: 208900

Ion Ratio Lower Upper

152 100

115 60.8 41.1 123.3

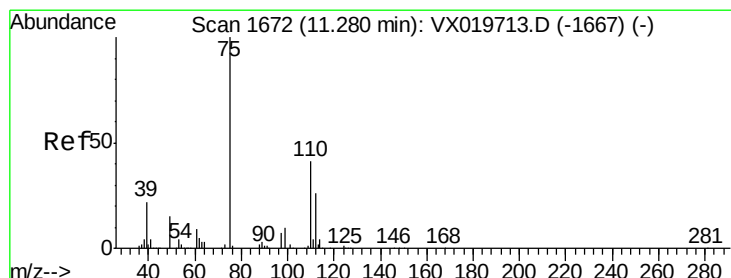
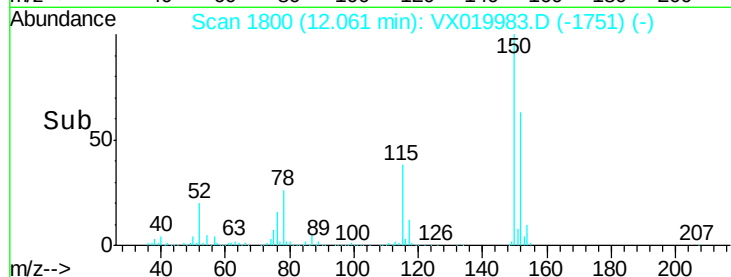
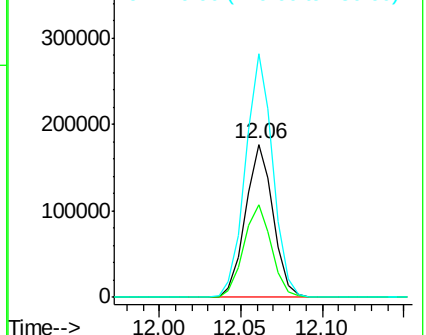
150 158.3 0.0 349.0



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: 22.895 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019983.D

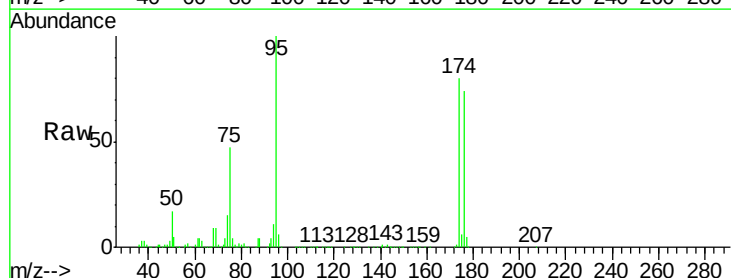
Acq: 14 Dec 2020 13:55

Tgt Ion: 75 Resp: 107268

Ion Ratio Lower Upper

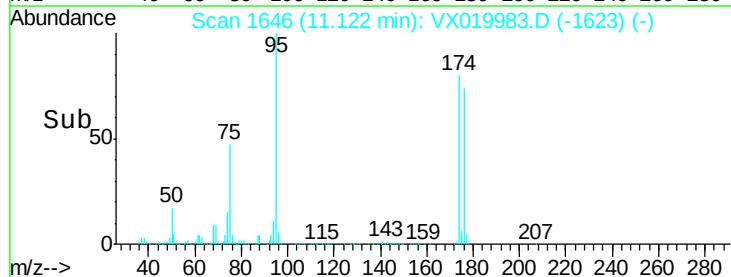
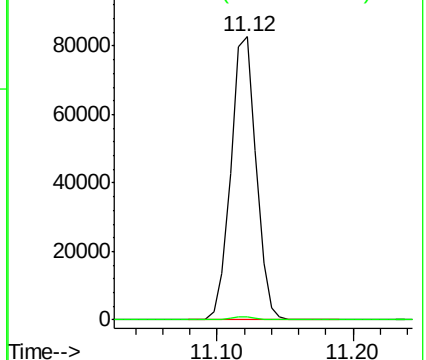
75 100

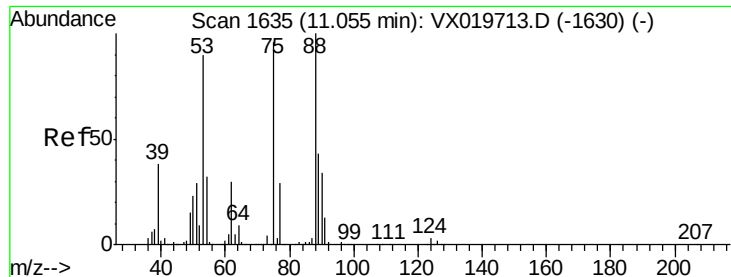
77 1.3 19.1 57.5#



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: 66.185 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019983.D

Acq: 14 Dec 2020 13:55

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5227-121020

Tgt Ion: 75 Resp: 107268

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#

