

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121420\
 Data File : VX019986.D
 Acq On : 14 Dec 2020 15:05
 Operator : JC/MD
 Sample : L5052-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6778-121020

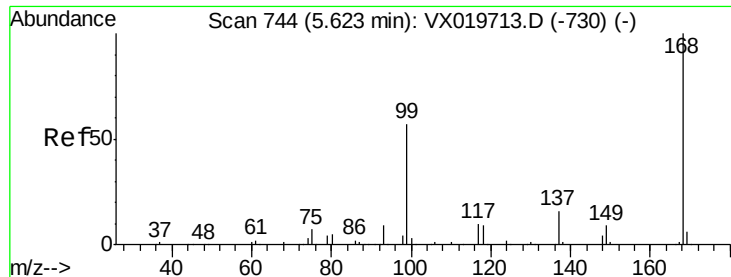
Quant Time: Dec 15 00:23:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.62	168	306055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	511303	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	472666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	209594	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	198585	49.37	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	98.74%	
35) Dibromofluoromethane		5.46	113	160156	48.47	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	96.94%	
50) Toluene-d8		8.70	98	620106	49.15	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.30%	
62) 4-Bromofluorobenzene		11.12	95	221458	46.12	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	92.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1039	0.371	ug/l	94
3) Chloromethane	1.31	50	822	0.249	ug/l #	87
4) Vinyl Chloride	1.39	62	984	0.283	ug/l #	1
5) Bromomethane	1.63	94	528	0.458	ug/l #	68
11) Tert butyl alcohol	2.99	59	4165	2.449	ug/l #	76
13) Acrolein	2.25	56	104	0.234	ug/l #	1
15) Acrylonitrile	3.11	53	854	0.470	ug/l #	92
16) Acetone	2.42	43	1582	1.046	ug/l	99
18) Methyl Acetate	2.75	43	942	0.255	ug/l #	58
20) Methylene Chloride	2.83	84	444	Below Cal		98
21) trans-1,2-Dichloroethene	3.14	96	1152	0.352	ug/l	94
25) 2-Butanone	4.63	43	592	0.255	ug/l #	45
27) cis-1,2-Dichloroethene	4.56	96	2554	0.668	ug/l	81
29) Tetrahydrofuran	5.11	42	599	0.400	ug/l #	67
31) Cyclohexane	5.62	56	5789	1.157	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	23865	5.165	ug/l #	48
38) Carbon Tetrachloride	5.62	117	29739	6.573	ug/l #	16
44) Trichloroethene	7.18	130	873	0.236	ug/l	87
49) 1,4-Dioxane	7.72	88	225	2.490	ug/l #	92
69) o-Xylene	10.68	106	1341	0.221	ug/l	90
73) Isopropylbenzene	11.00	105	3187	0.223	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	107392	22.845	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107392	66.042	ug/l #	12
90) Hexachloroethane	12.68	117	1427	0.666	ug/l #	9

(#) = 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: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

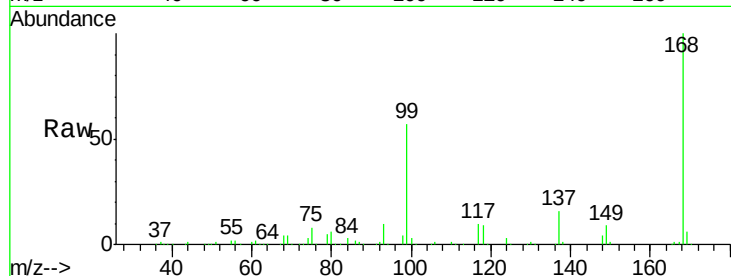
TU032-32-6778-121020

Tgt Ion:168 Resp: 306055

Ion Ratio Lower Upper

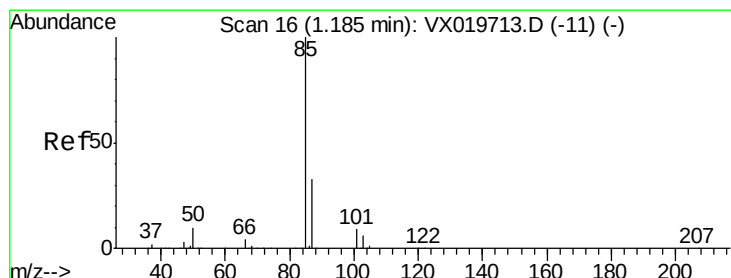
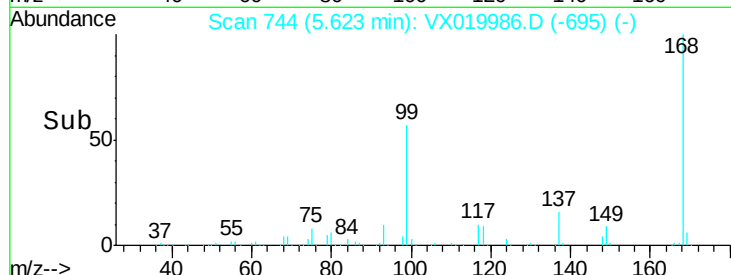
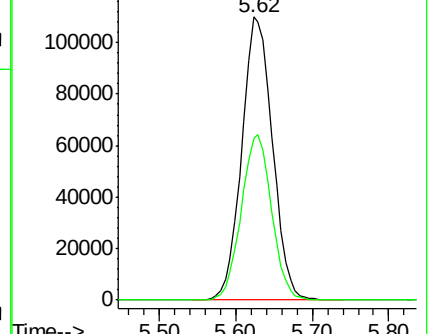
168 100

99 57.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.371 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX019986.D

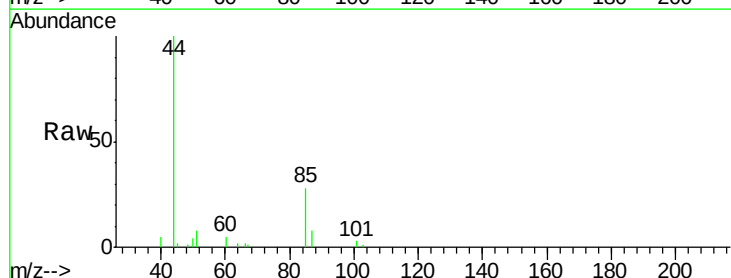
Acq: 14 Dec 2020 15:05

Tgt Ion: 85 Resp: 1039

Ion Ratio Lower Upper

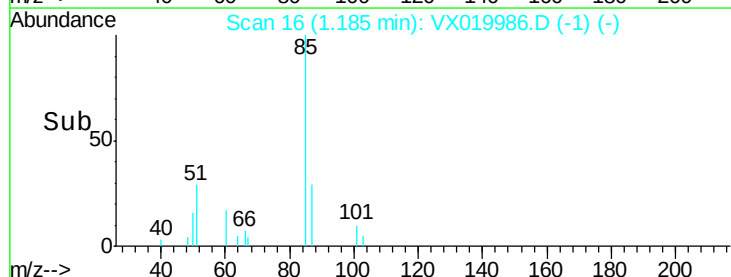
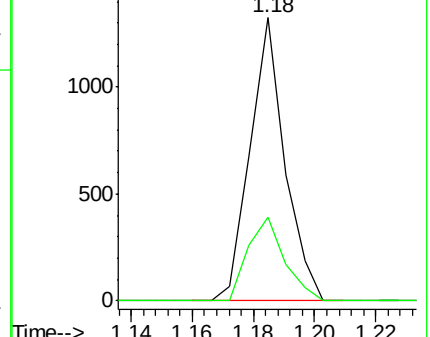
85 100

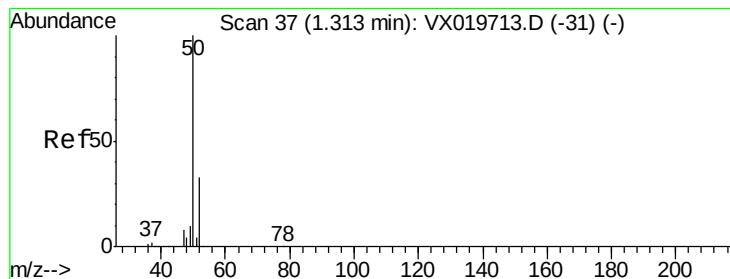
87 29.5 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

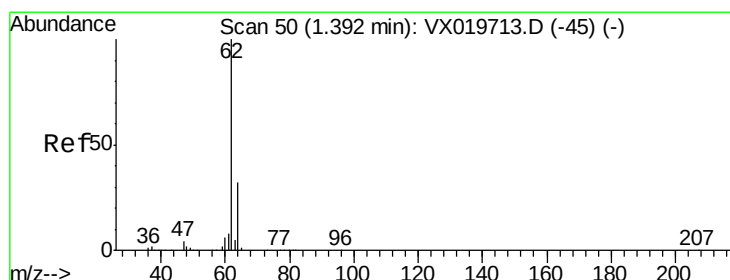
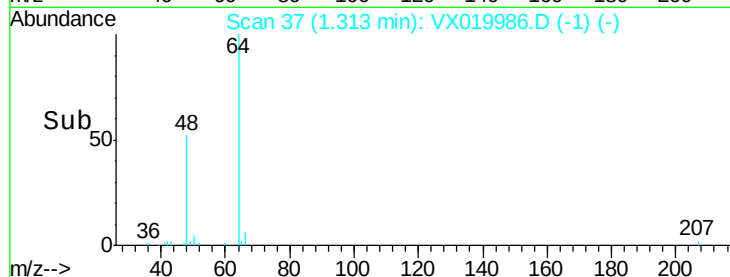
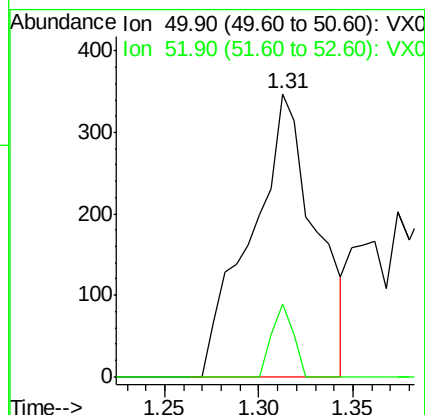
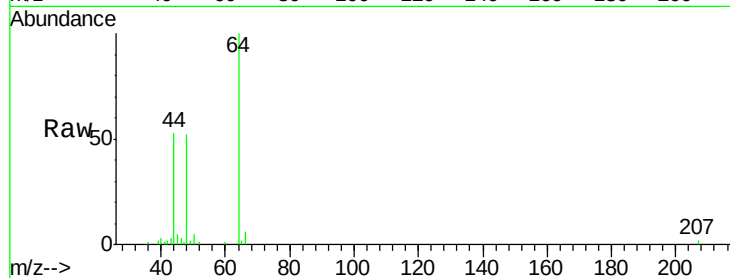
TU032-32-6778-121020

Tgt Ion: 50 Resp: 822

Ion Ratio Lower Upper

50 100

52 25.6 26.4 39.6#



#4

Vinyl Chloride

Concen: 0.283 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019986.D

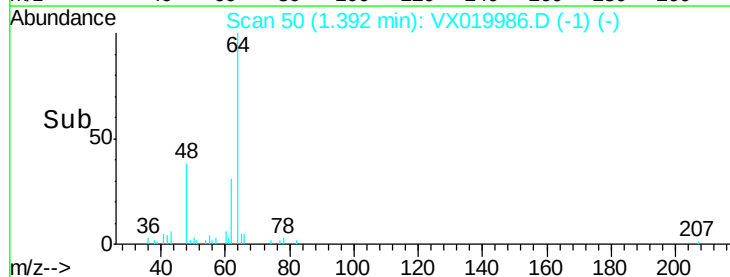
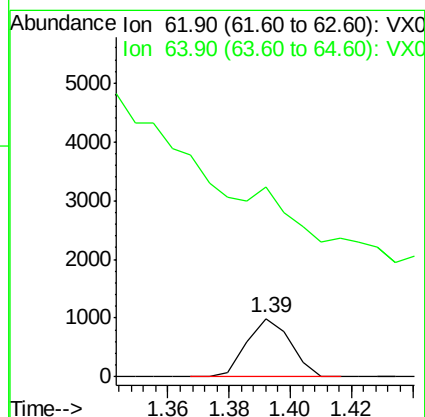
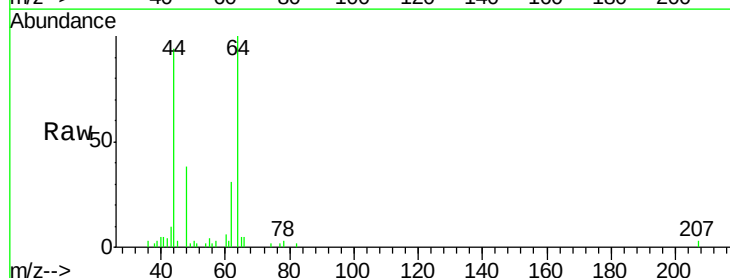
Acq: 14 Dec 2020 15:05

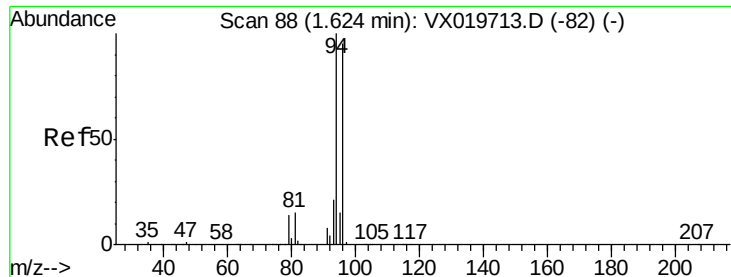
Tgt Ion: 62 Resp: 984

Ion Ratio Lower Upper

62 100

64 88.1 25.7 38.5#





#5

Bromomethane

Concen: 0.458 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

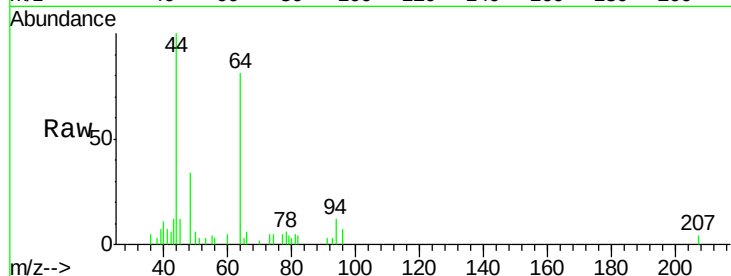
TU032-32-6778-121020

Tgt Ion: 94 Resp: 528

Ion Ratio Lower Upper

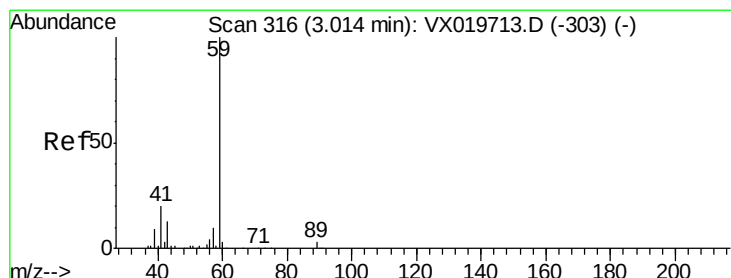
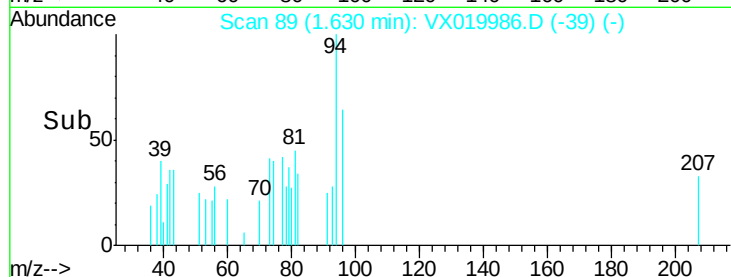
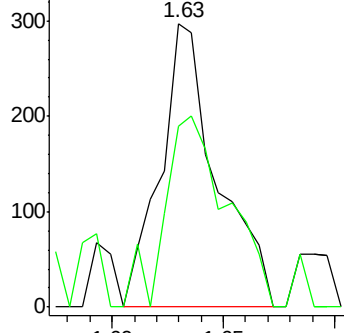
94 100

96 64.0 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: 2.449 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019986.D

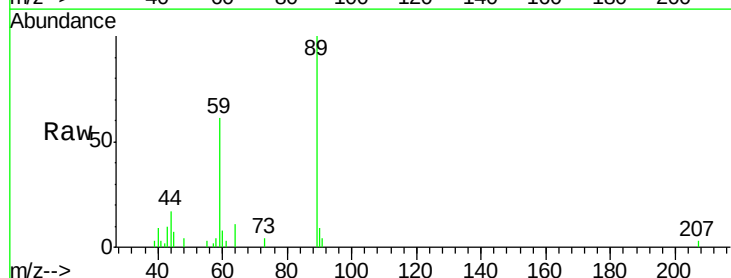
Acq: 14 Dec 2020 15:05

Tgt Ion: 59 Resp: 4165

Ion Ratio Lower Upper

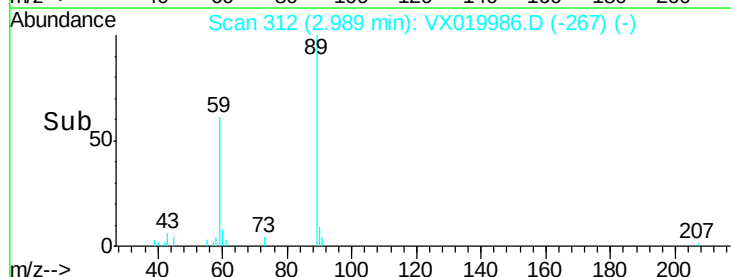
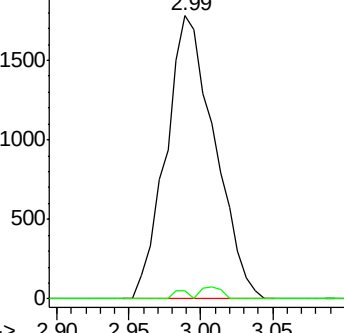
59 100

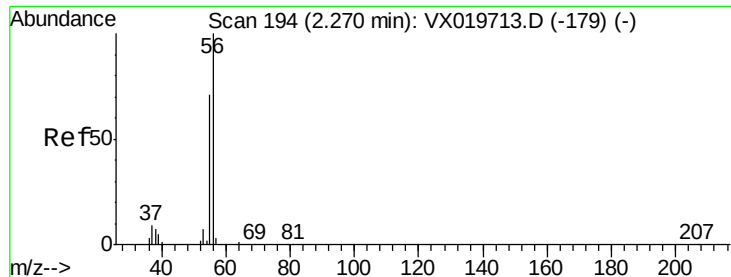
57 0.9 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.234 ug/l

RT: 2.25 min Scan# 190

Delta R.T. -0.02 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

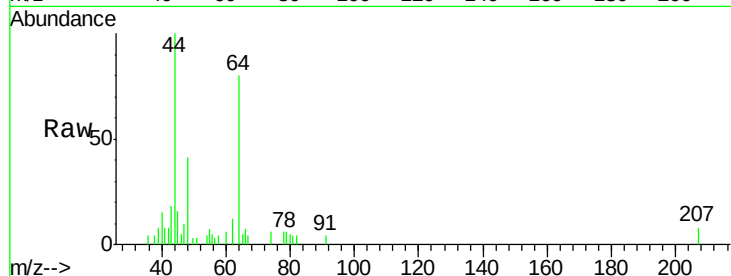
TU032-32-6778-121020

Tgt Ion: 56 Resp: 104

Ion Ratio Lower Upper

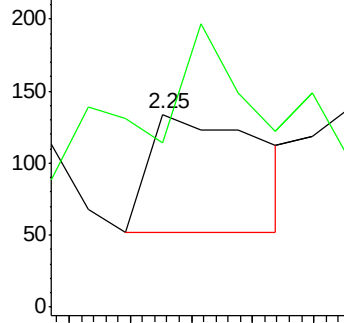
56 100

55 240.4 56.4 84.6#

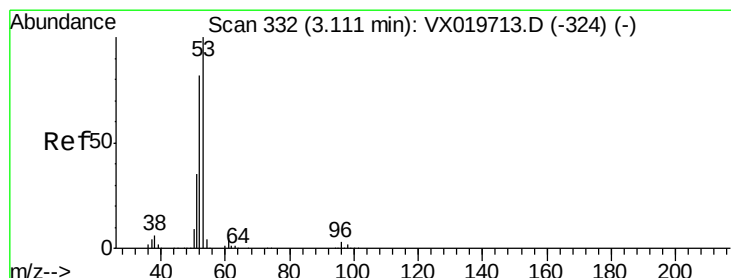
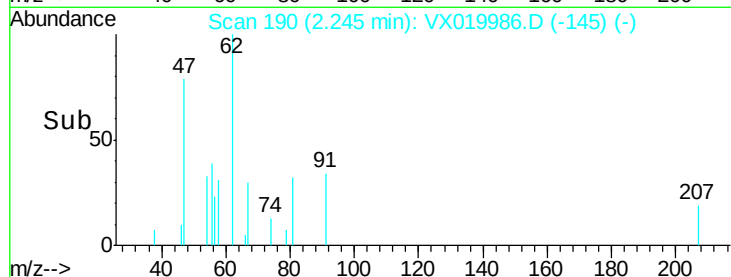


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.470 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.00 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

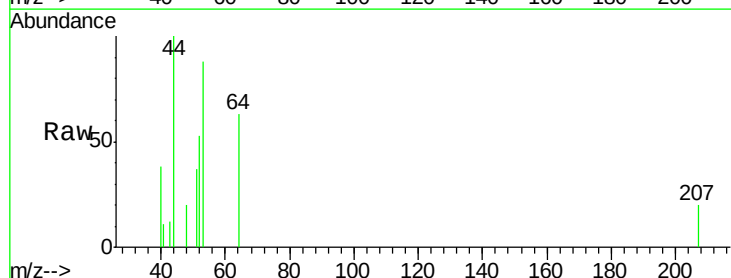
Tgt Ion: 53 Resp: 854

Ion Ratio Lower Upper

53 100

52 81.9 65.3 97.9

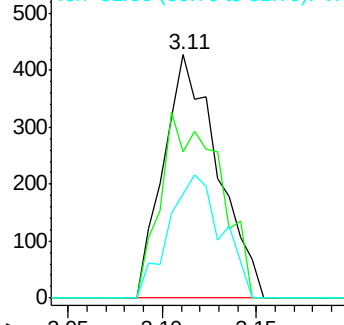
51 49.4 28.2 42.2#



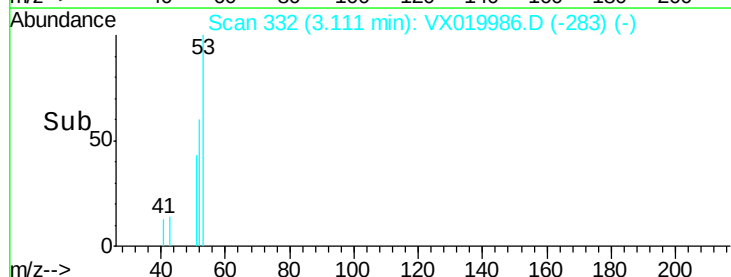
Abundance Ion 53.00 (52.70 to 53.70): VX0

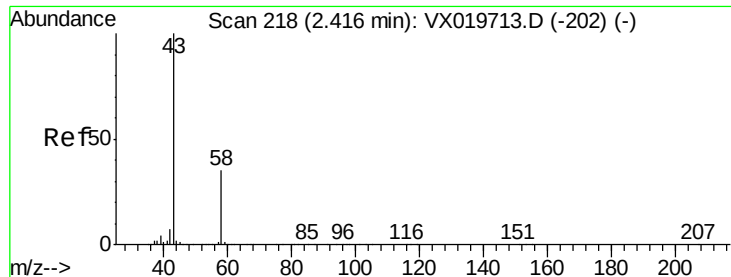
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 1.046 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

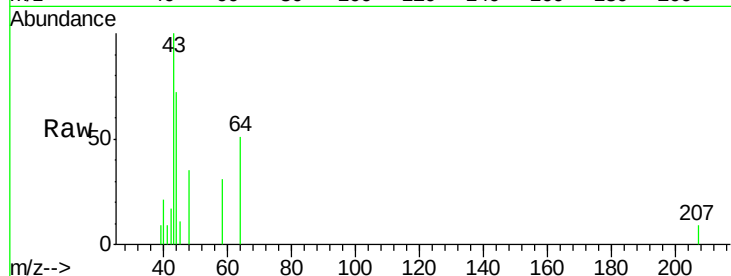
TU032-32-6778-121020

Tgt Ion: 43 Resp: 1582

Ion Ratio Lower Upper

43 100

58 34.2 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

1200

1000

800

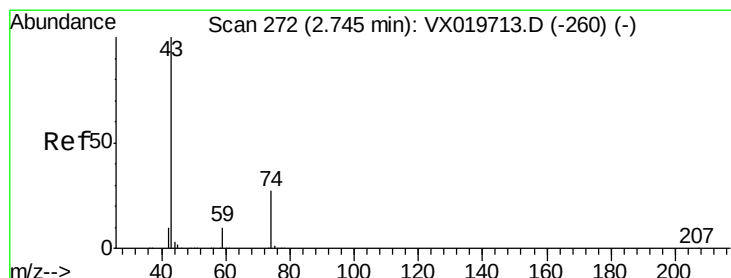
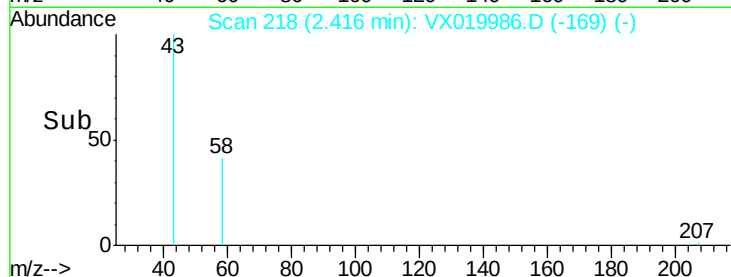
600

400

200

0

Time--> 2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.255 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019986.D

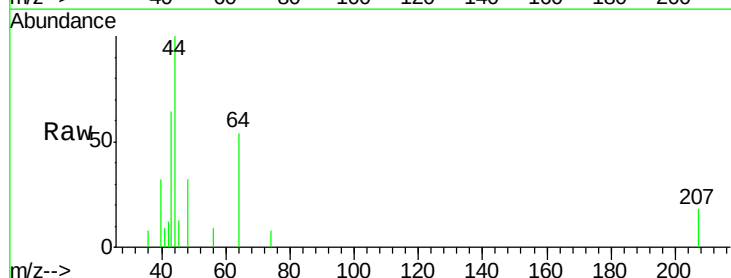
Acq: 14 Dec 2020 15:05

Tgt Ion: 43 Resp: 942

Ion Ratio Lower Upper

43 100

74 5.3 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

500

400

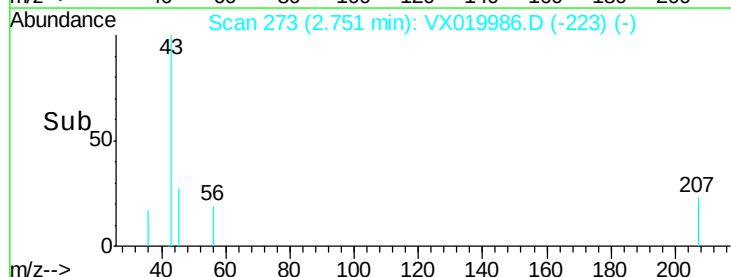
300

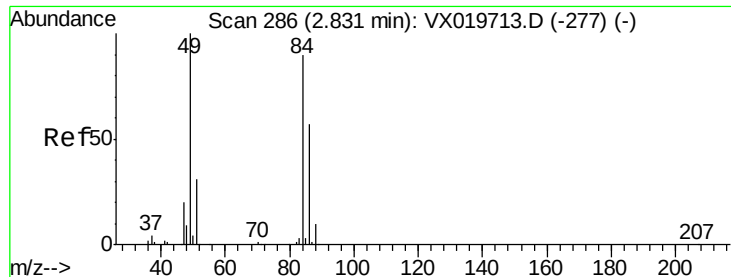
200

100

0

Time--> 2.70 2.75 2.80



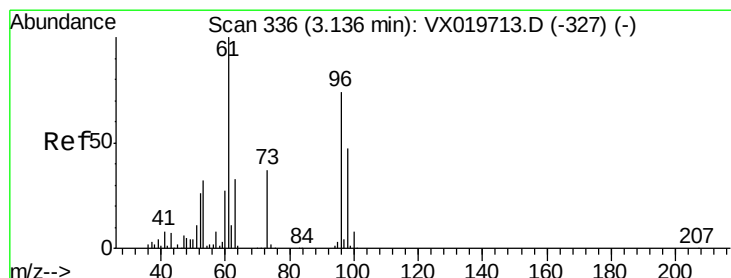
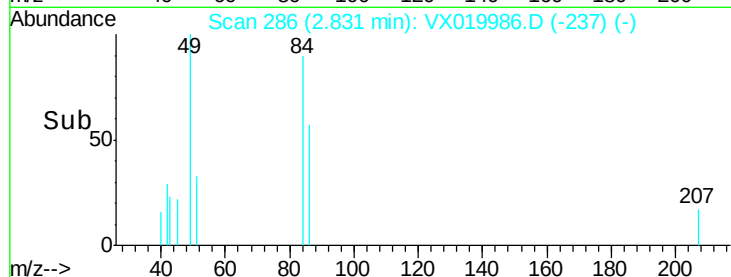
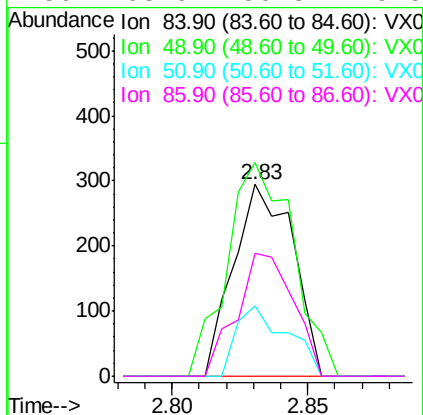
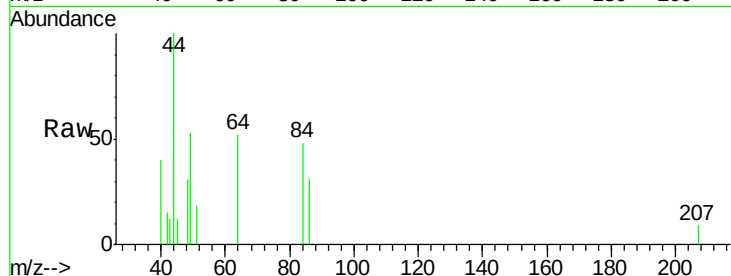


#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6778-121020

Tgt Ion: 84 Resp: 444

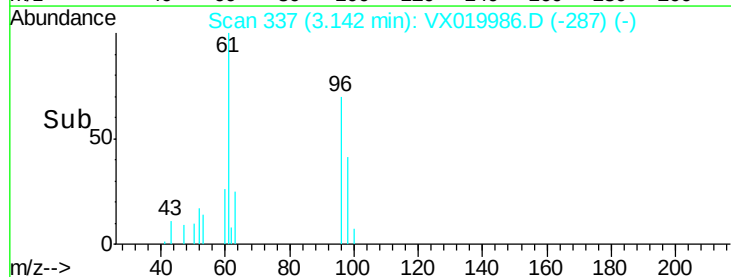
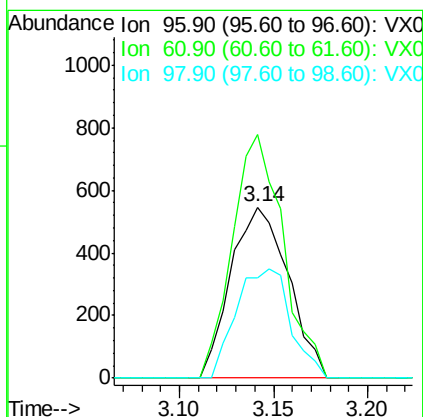
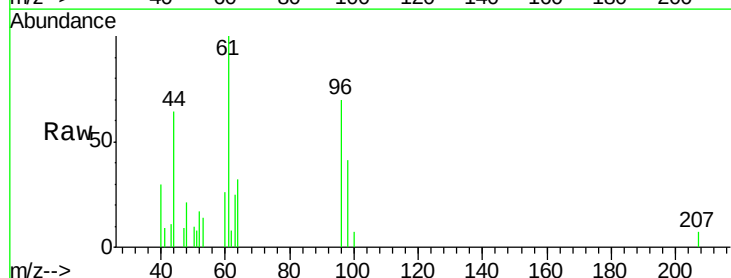
Ion	Ratio	Lower	Upper
84	100		
49	111.6	88.6	132.8
51	37.1	27.0	40.6
86	63.9	50.3	75.5

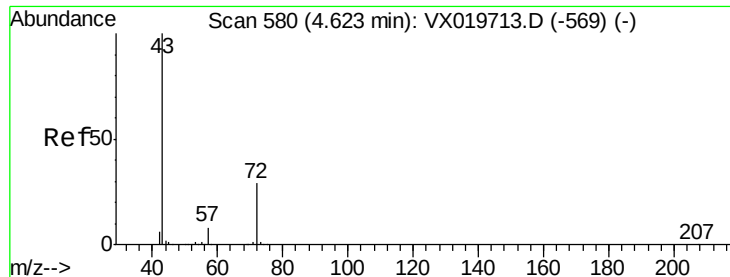


#21
trans-1,2-Dichloroethene
Concen: 0.352 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

Tgt Ion: 96 Resp: 1152

Ion	Ratio	Lower	Upper
96	100		
61	142.5	107.7	161.5
98	58.6	50.4	75.6





#25

2-Butanone

Concen: 0.255 ug/l

RT: 4.63 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

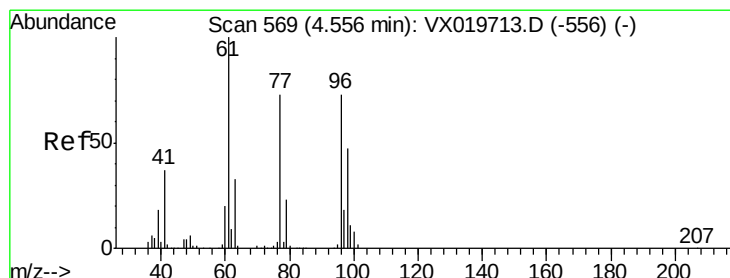
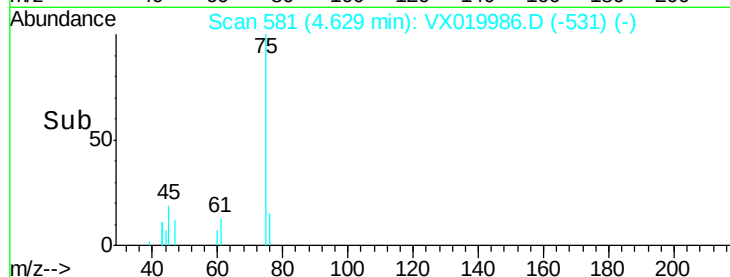
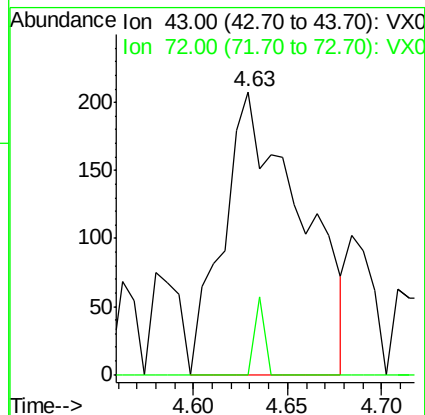
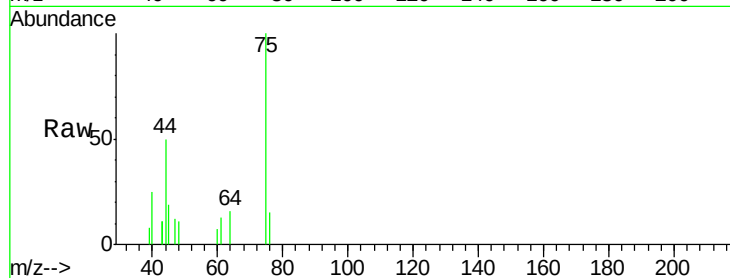
TU032-32-6778-121020

Tgt Ion: 43 Resp: 592

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#27

cis-1,2-Dichloroethene

Concen: 0.668 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

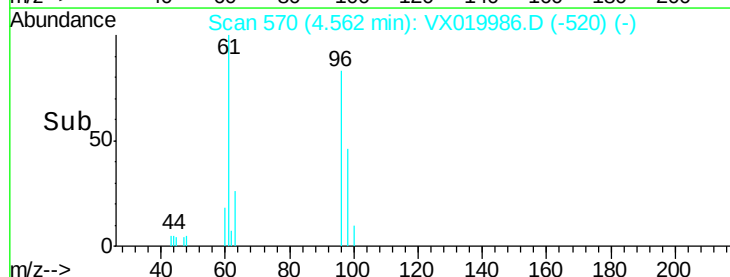
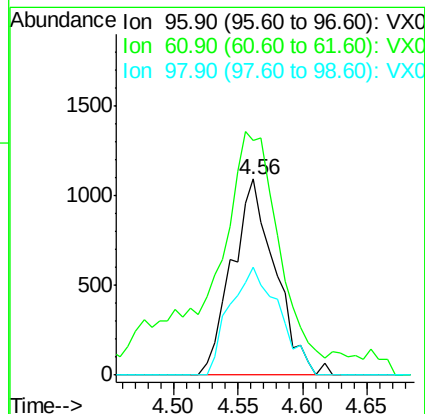
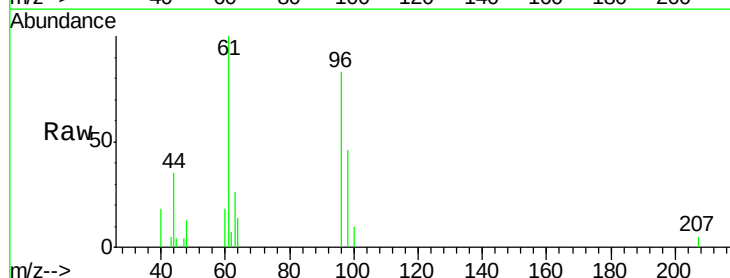
Tgt Ion: 96 Resp: 2554

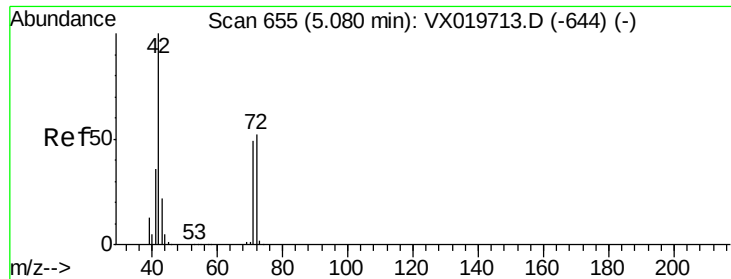
Ion Ratio Lower Upper

96 100

61 176.0 0.0 285.6

98 63.3 0.0 129.6

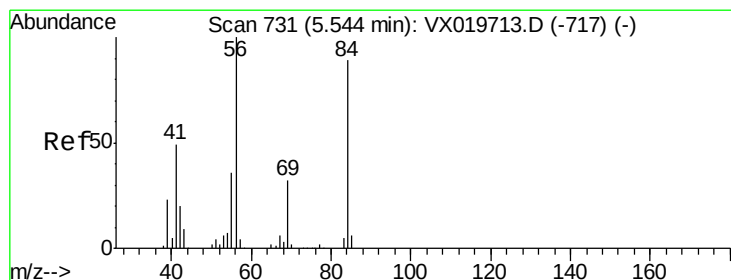
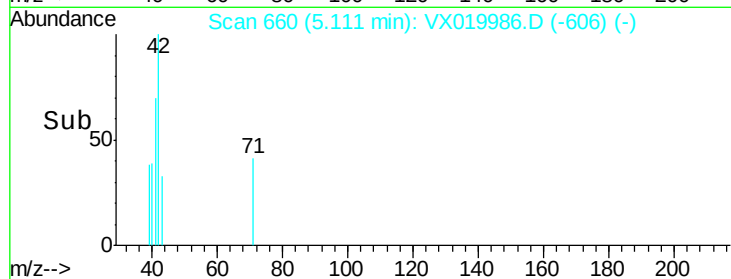
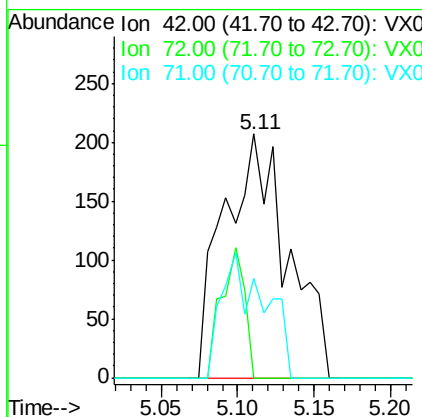
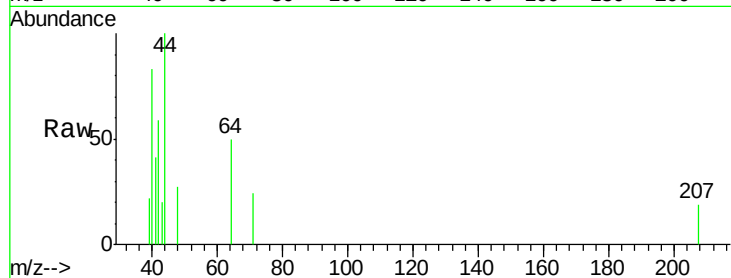




#29
Tetrahydrofuran
Concen: 0.400 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.03 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

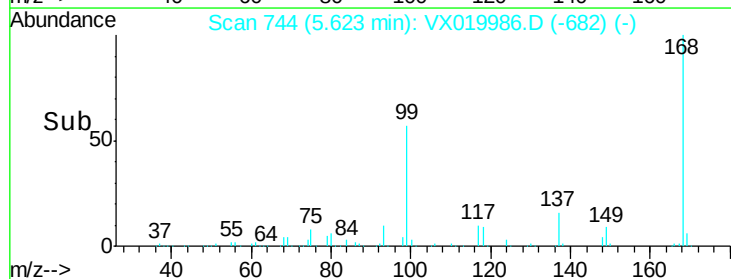
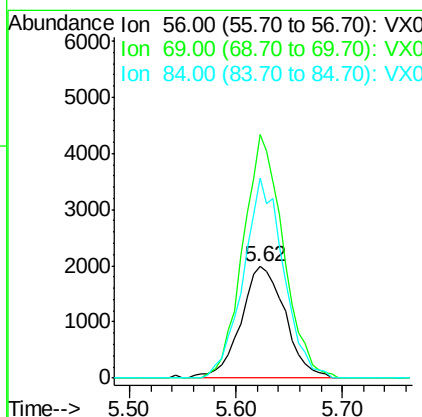
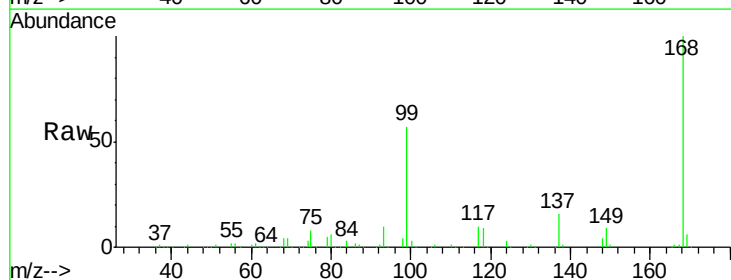
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6778-121020

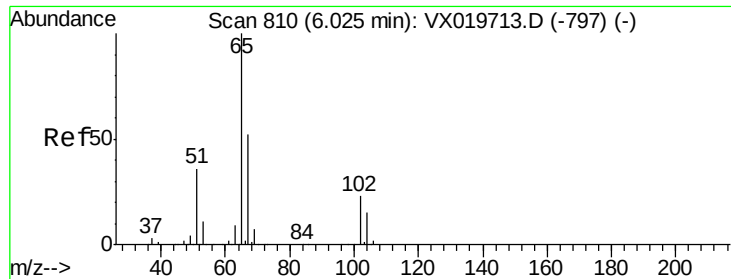
Tgt Ion: 42 Resp: 599
Ion Ratio Lower Upper
42 100
72 19.7 41.7 62.5#
71 34.9 38.4 57.6#



#31
Cyclohexane
Concen: 1.157 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

Tgt Ion: 56 Resp: 5789
Ion Ratio Lower Upper
56 100
69 218.9 25.3 37.9#
84 180.3 71.4 107.0#

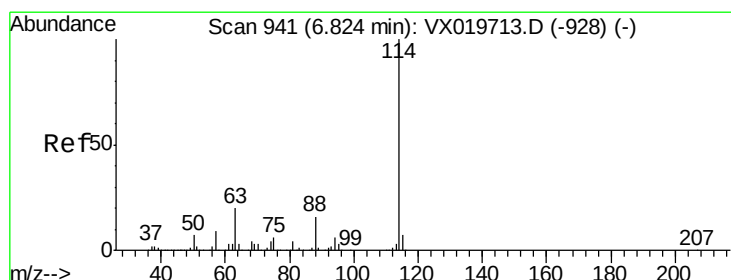
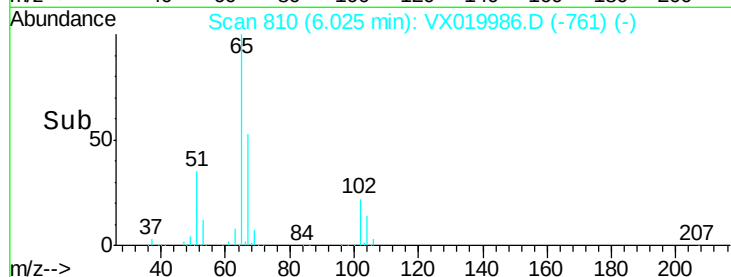
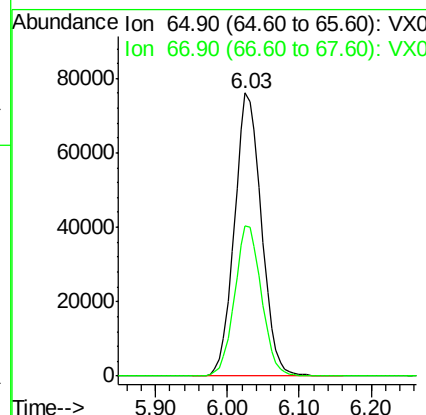
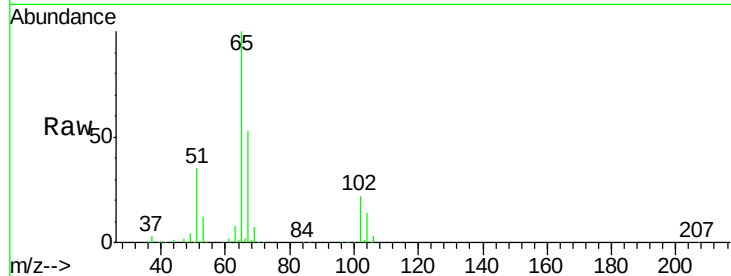




#33
 1,2-Dichloroethane-d4
 Concen: 49.369 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VX019986.D
 Acq: 14 Dec 2020 15:05

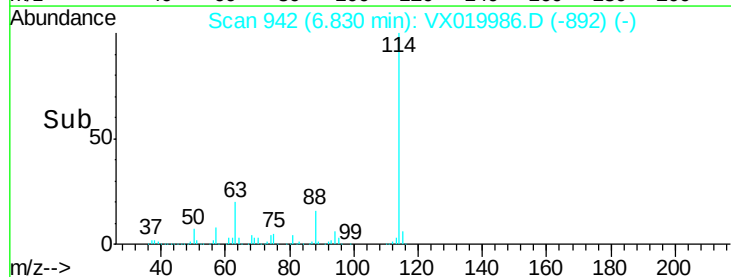
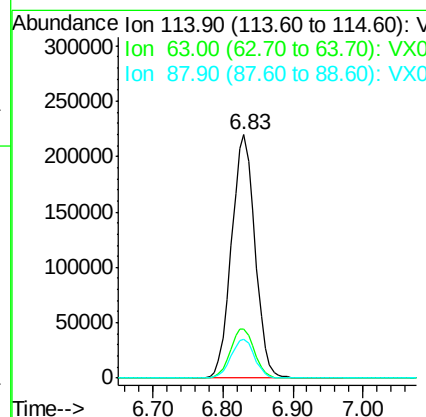
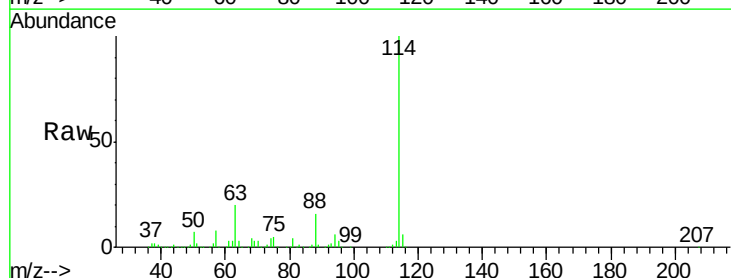
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6778-121020

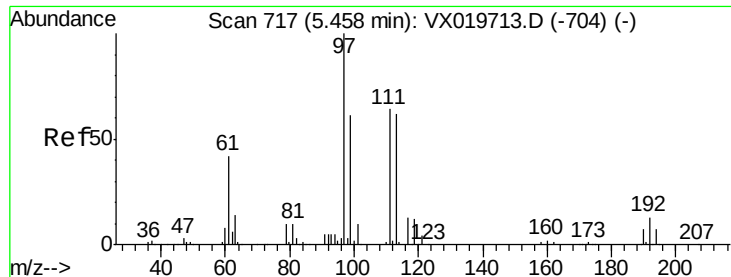
Tgt Ion: 65 Resp: 198585
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019986.D
 Acq: 14 Dec 2020 15:05

Tgt Ion: 114 Resp: 511303
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.8
 88 16.0 0.0 32.8

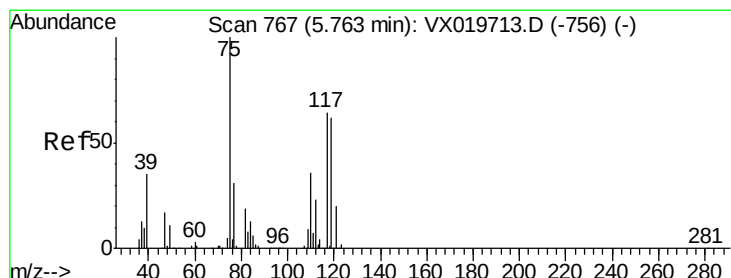
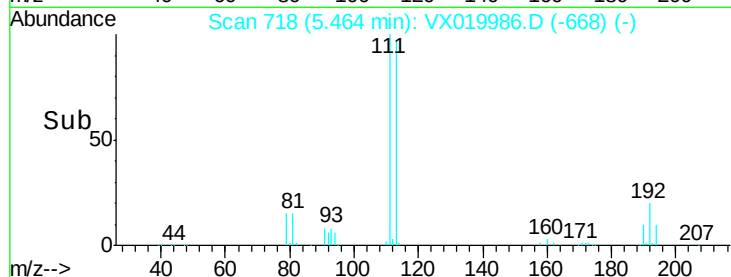
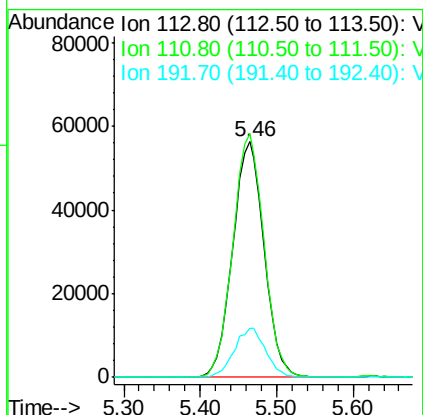
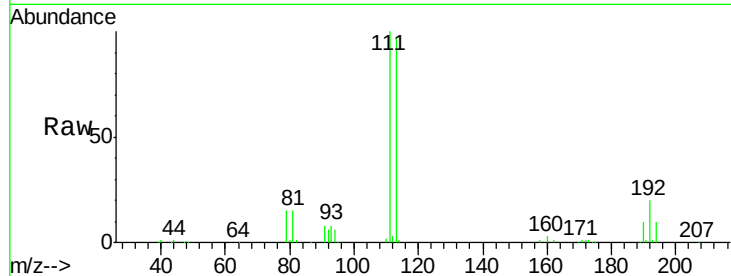




#35
 Dibromofluoromethane
 Concen: 48.466 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019986.D
 Acq: 14 Dec 2020 15:05

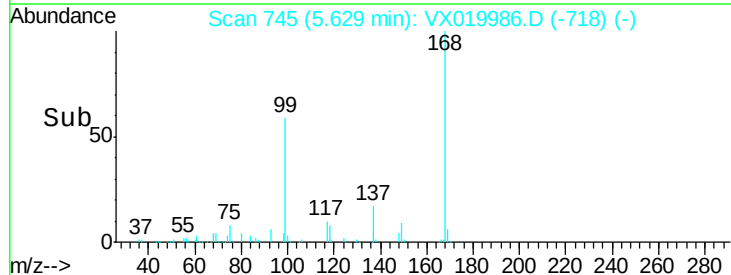
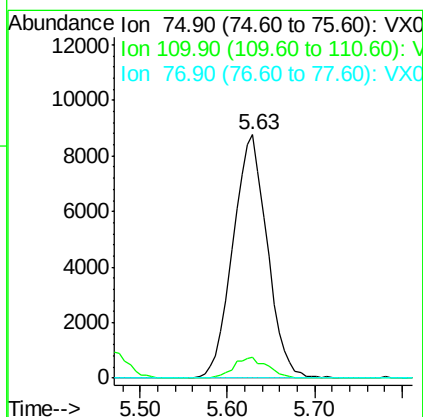
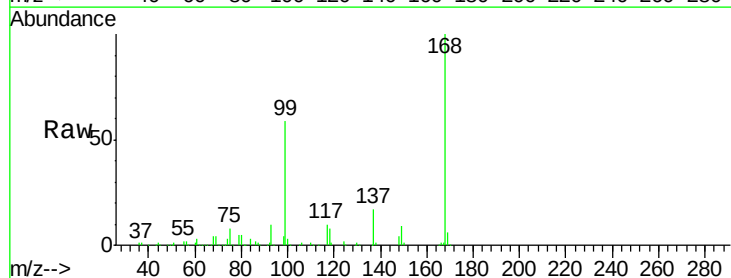
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6778-121020

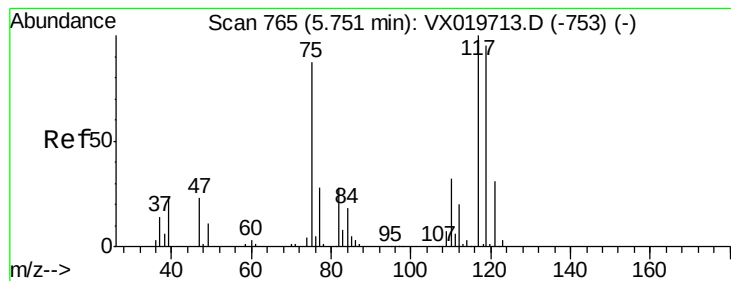
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	20.7	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.165 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019986.D
 Acq: 14 Dec 2020 15:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.4#
77	0.0	25.3	37.9#





#38

Carbon Tetrachloride

Concen: 6.573 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6778-121020

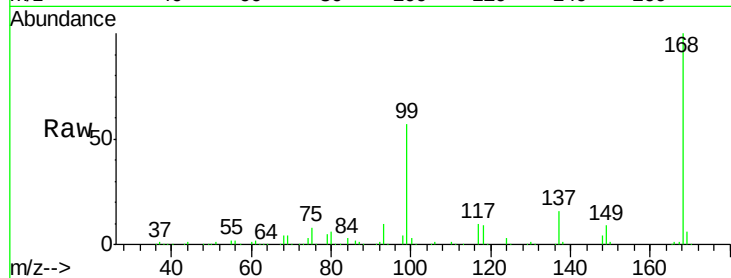
Tgt Ion:117 Resp: 29739

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

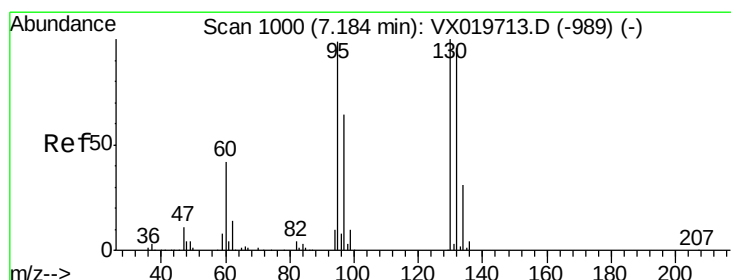
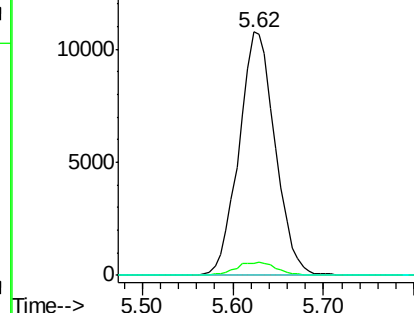
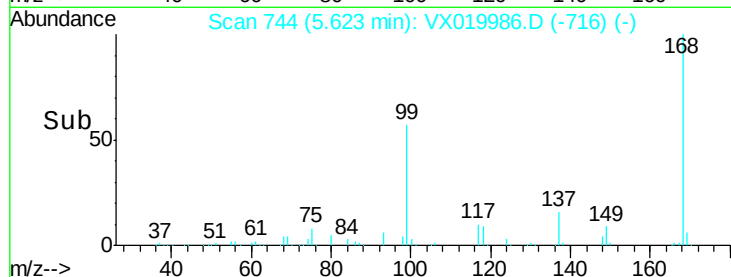
121 0.0 24.8 37.2#



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: 0.236 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VX019986.D

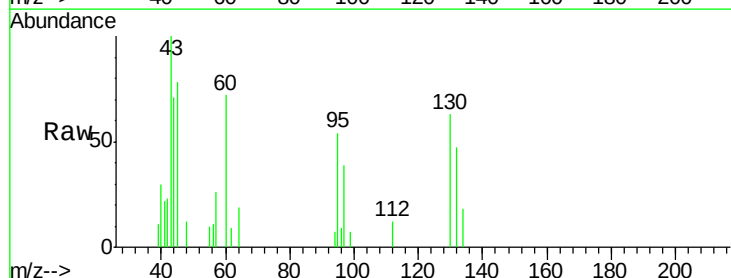
Acq: 14 Dec 2020 15:05

Tgt Ion:130 Resp: 873

Ion Ratio Lower Upper

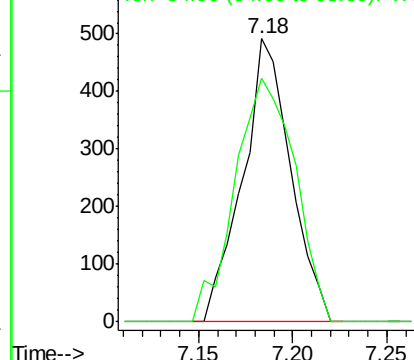
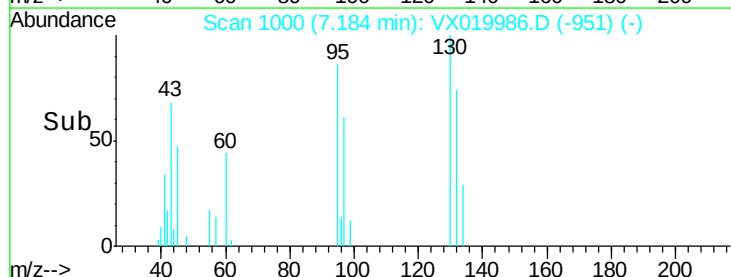
130 100

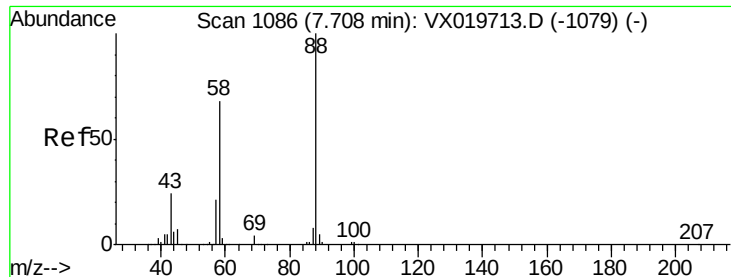
95 86.0 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

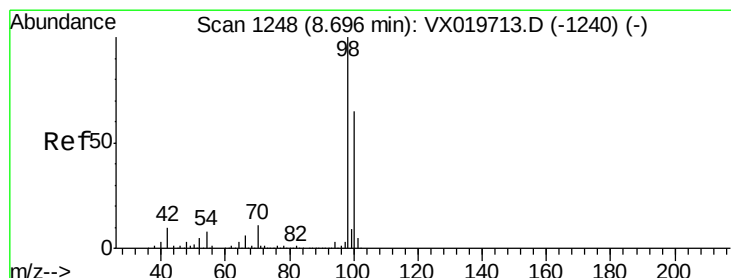
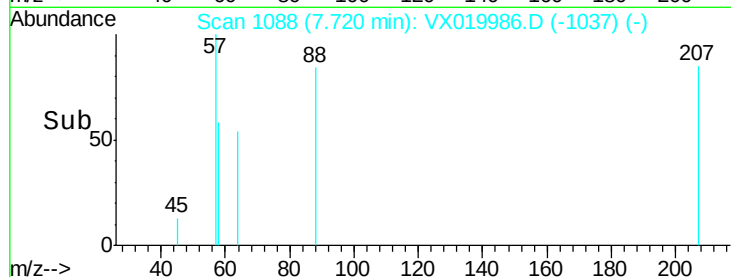
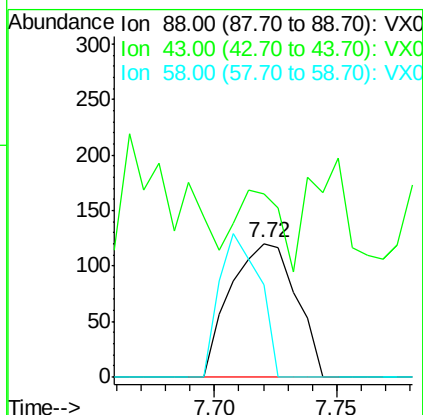
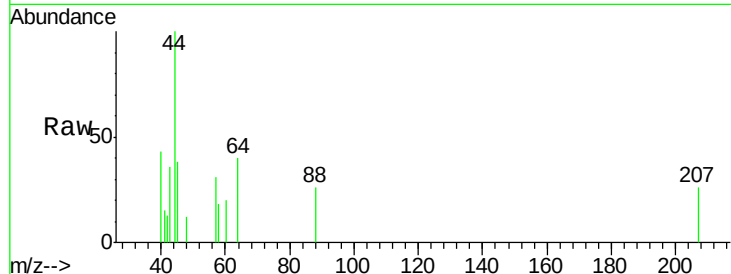




#49
1,4-Dioxane
Concen: 2.490 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

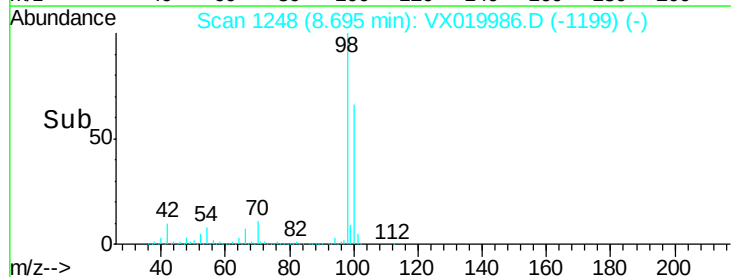
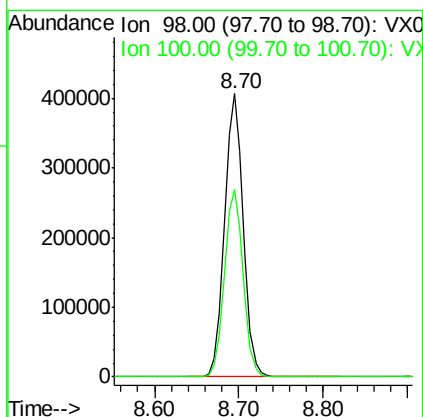
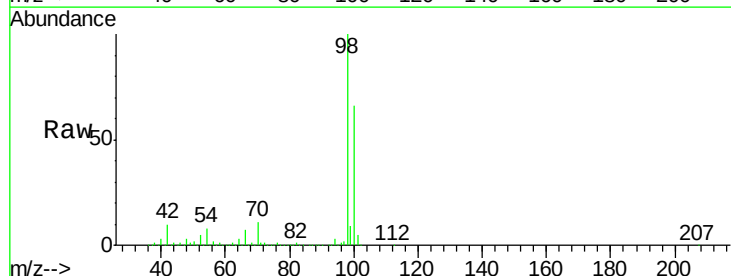
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6778-121020

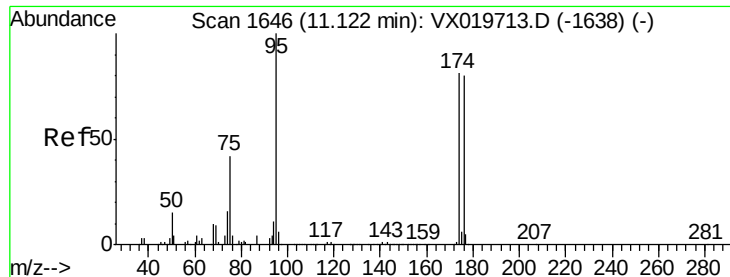
Tgt Ion: 88 Resp: 225
Ion Ratio Lower Upper
88 100
43 39.6 23.2 34.8#
58 65.8 55.0 82.4



#50
Toluene-d8
Concen: 49.154 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

Tgt Ion: 98 Resp: 620106
Ion Ratio Lower Upper
98 100
100 66.2 51.9 77.9





#62

4-Bromofluorobenzene

Concen: 46.121 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6778-121020

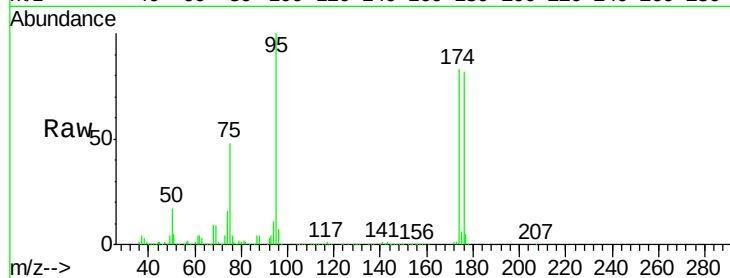
Tgt Ion: 95 Resp: 221458

Ion Ratio Lower Upper

95 100

174 78.2 0.0 154.6

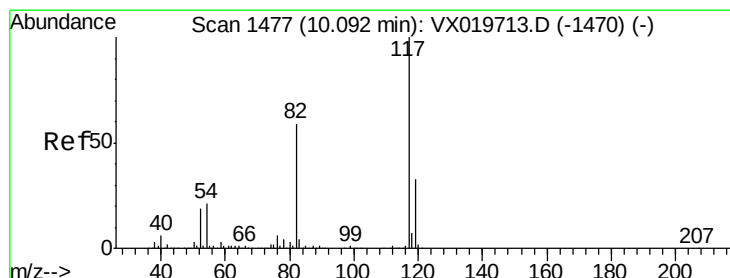
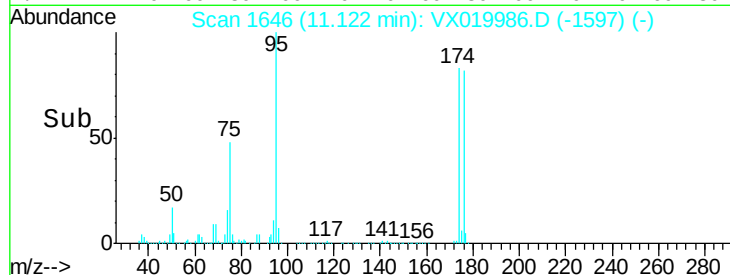
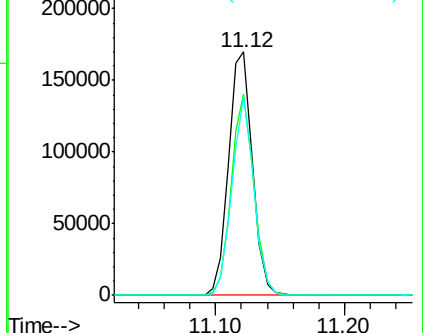
176 74.9 0.0 155.8



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: VX019986.D

Acq: 14 Dec 2020 15:05

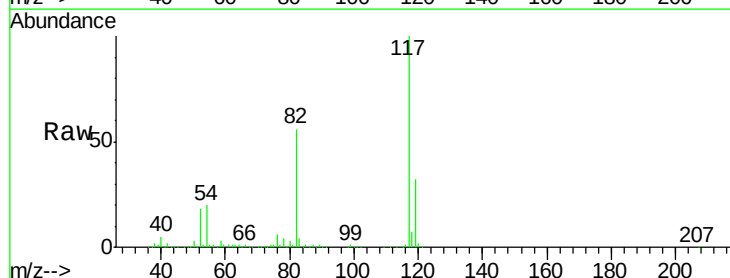
Tgt Ion: 117 Resp: 472666

Ion Ratio Lower Upper

117 100

82 55.9 47.4 71.2

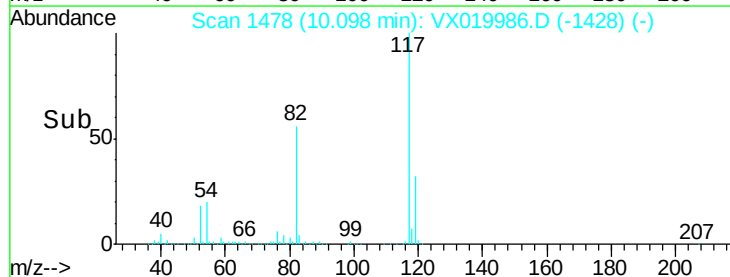
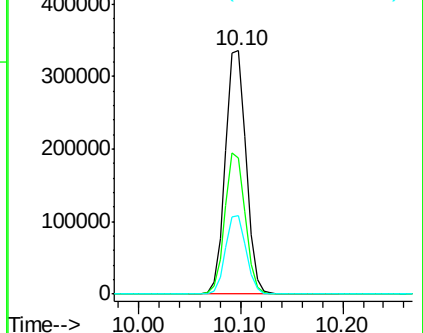
119 32.3 26.6 39.8

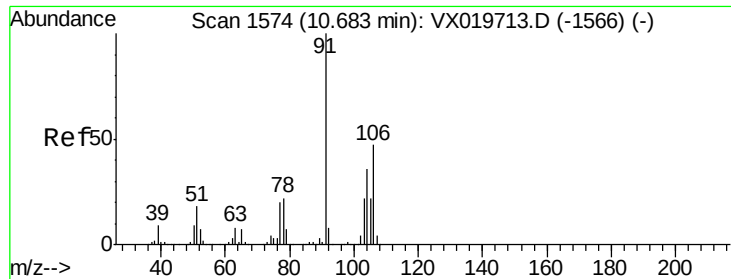


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

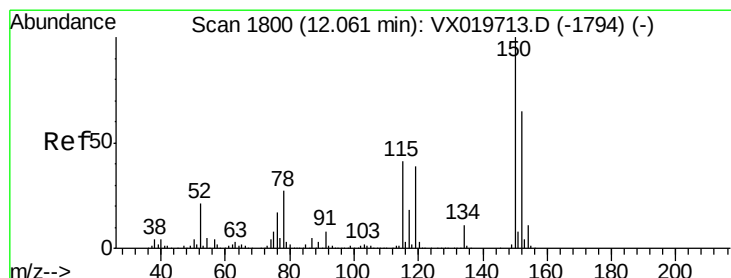
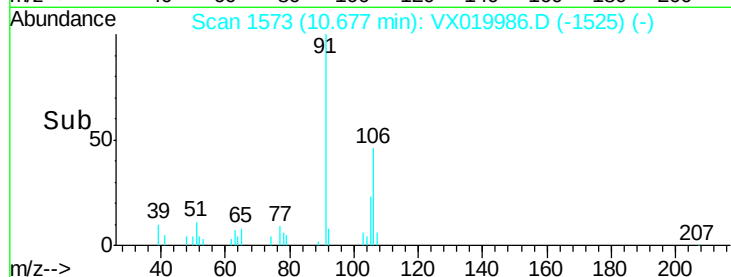
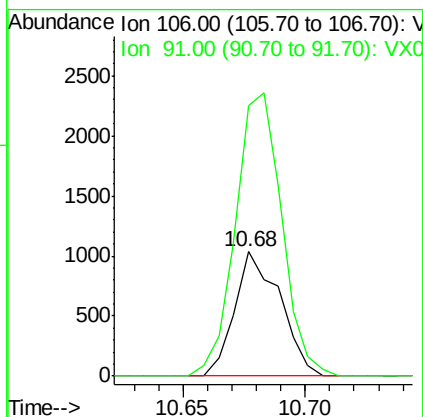
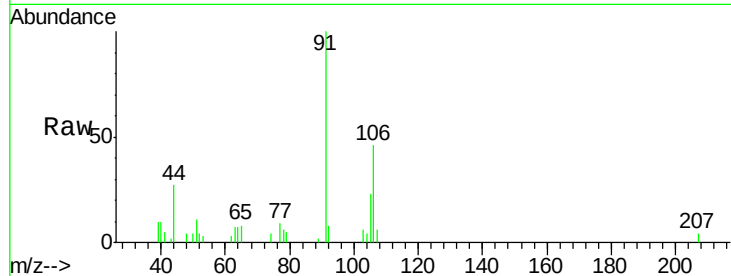




#69
o-Xylene
Concen: 0.221 ug/l
RT: 10.68 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

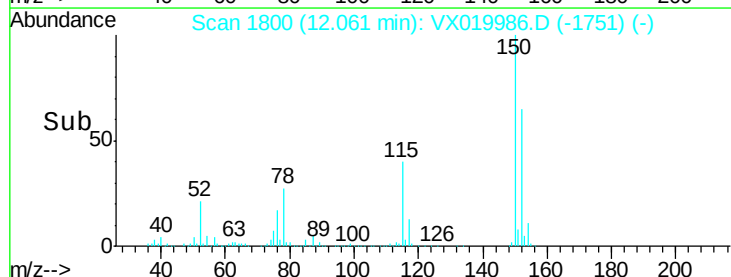
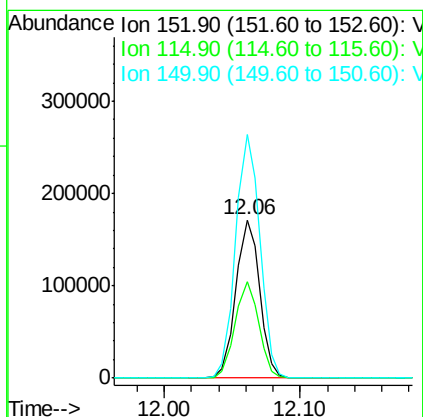
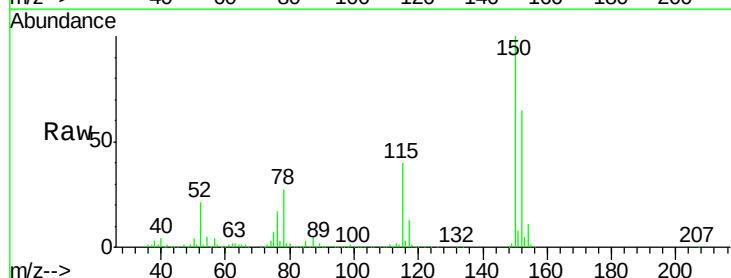
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6778-121020

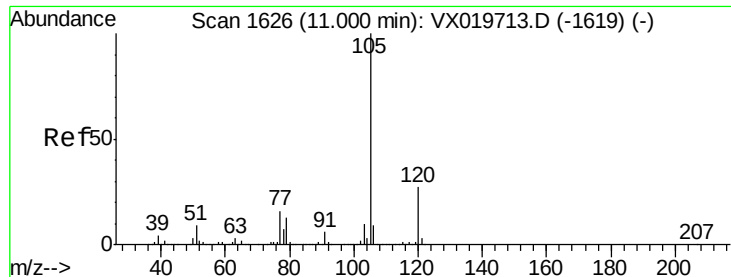
Tgt Ion:106 Resp: 1341
Ion Ratio Lower Upper
106 100
91 231.7 108.1 324.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019986.D
Acq: 14 Dec 2020 15:05

Tgt Ion:152 Resp: 209594
Ion Ratio Lower Upper
152 100
115 61.2 41.1 123.3
150 157.1 0.0 349.0





#73

Isopropylbenzene

Concen: 0.223 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

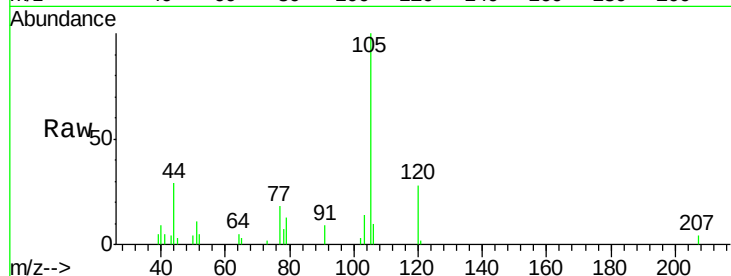
TU032-32-6778-121020

Tgt Ion:105 Resp: 3187

Ion Ratio Lower Upper

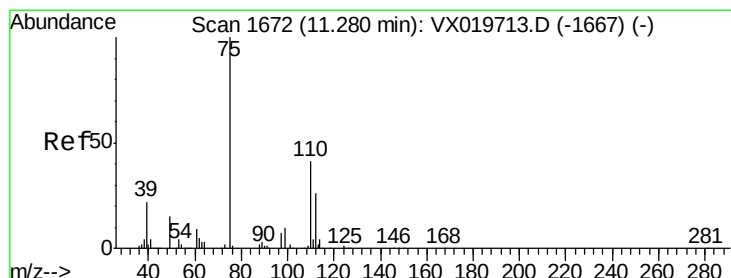
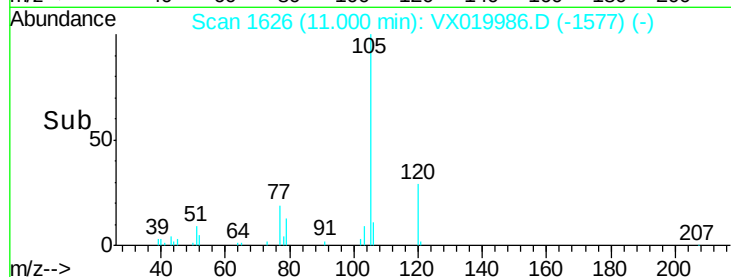
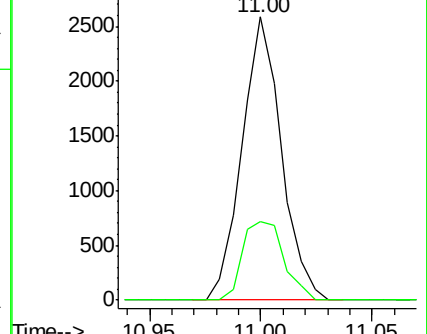
105 100

120 29.2 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 22.845 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019986.D

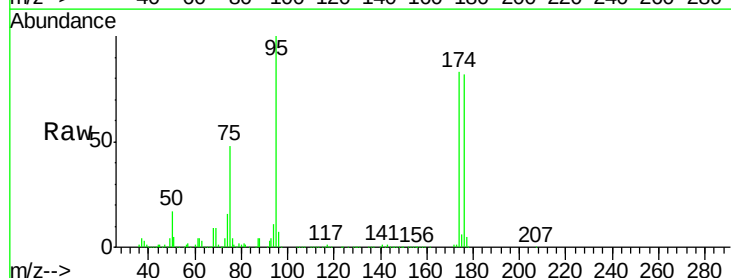
Acq: 14 Dec 2020 15:05

Tgt Ion: 75 Resp: 107392

Ion Ratio Lower Upper

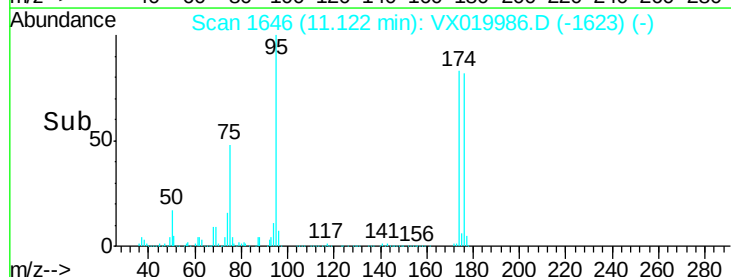
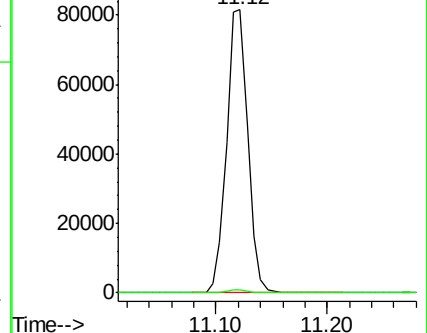
75 100

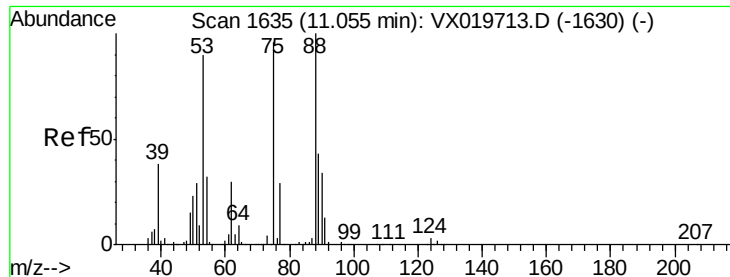
77 1.3 19.1 57.5#



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: 66.042 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019986.D

Acq: 14 Dec 2020 15:05

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6778-121020

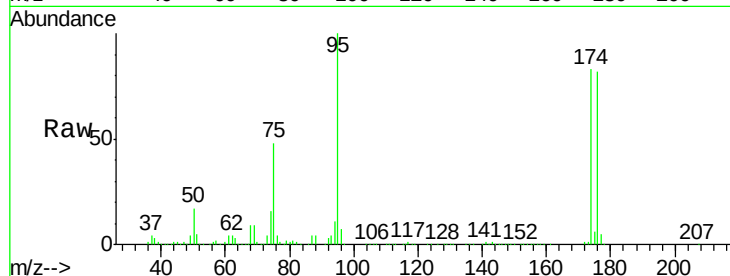
Tgt Ion: 75 Resp: 107392

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

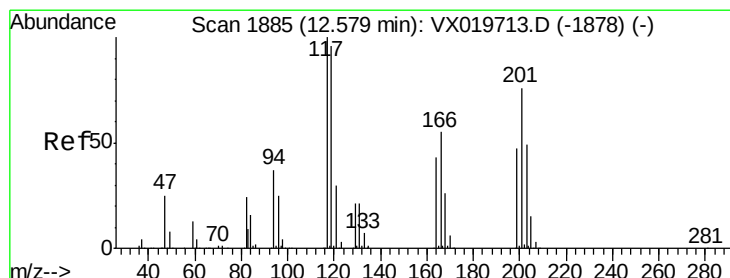
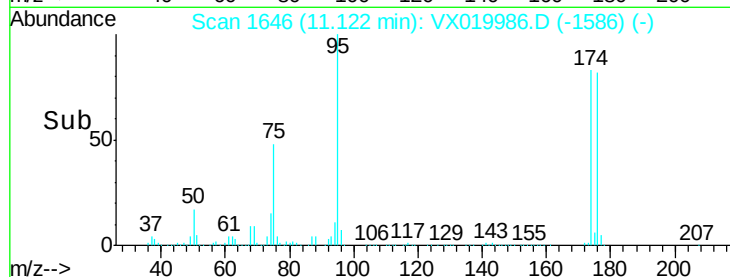
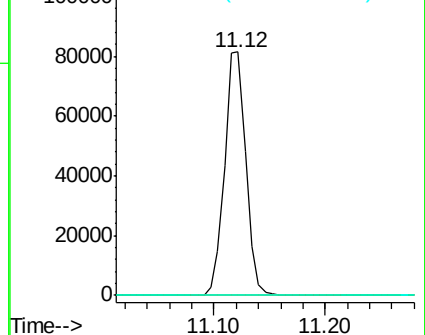
89 0.0 37.9 56.9#



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



#90

Hexachloroethane

Concen: 0.666 ug/l

RT: 12.68 min Scan# 1902

Delta R.T. 0.10 min

Lab File: VX019986.D

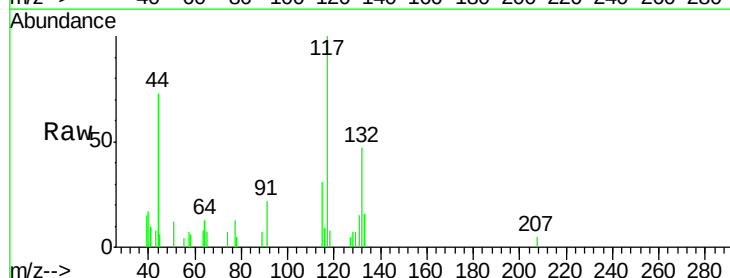
Acq: 14 Dec 2020 15:05

Tgt Ion: 117 Resp: 1427

Ion Ratio Lower Upper

117 100

201 0.0 40.4 121.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

