

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019801.D
 Acq On : 10 Dec 2020 01:29
 Operator : JC/MD
 Sample : L4993-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6132-120720

Quant Time: Dec 10 06:44:52 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	333097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	543188	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	497330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	217227	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	205202	46.87	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	93.74%
35) Dibromofluoromethane	5.46	113	166087	47.31	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.62%
50) Toluene-d8	8.70	98	652870	48.71	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.42%
62) 4-Bromofluorobenzene	11.12	95	231498	45.38	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.76%

Target Compounds

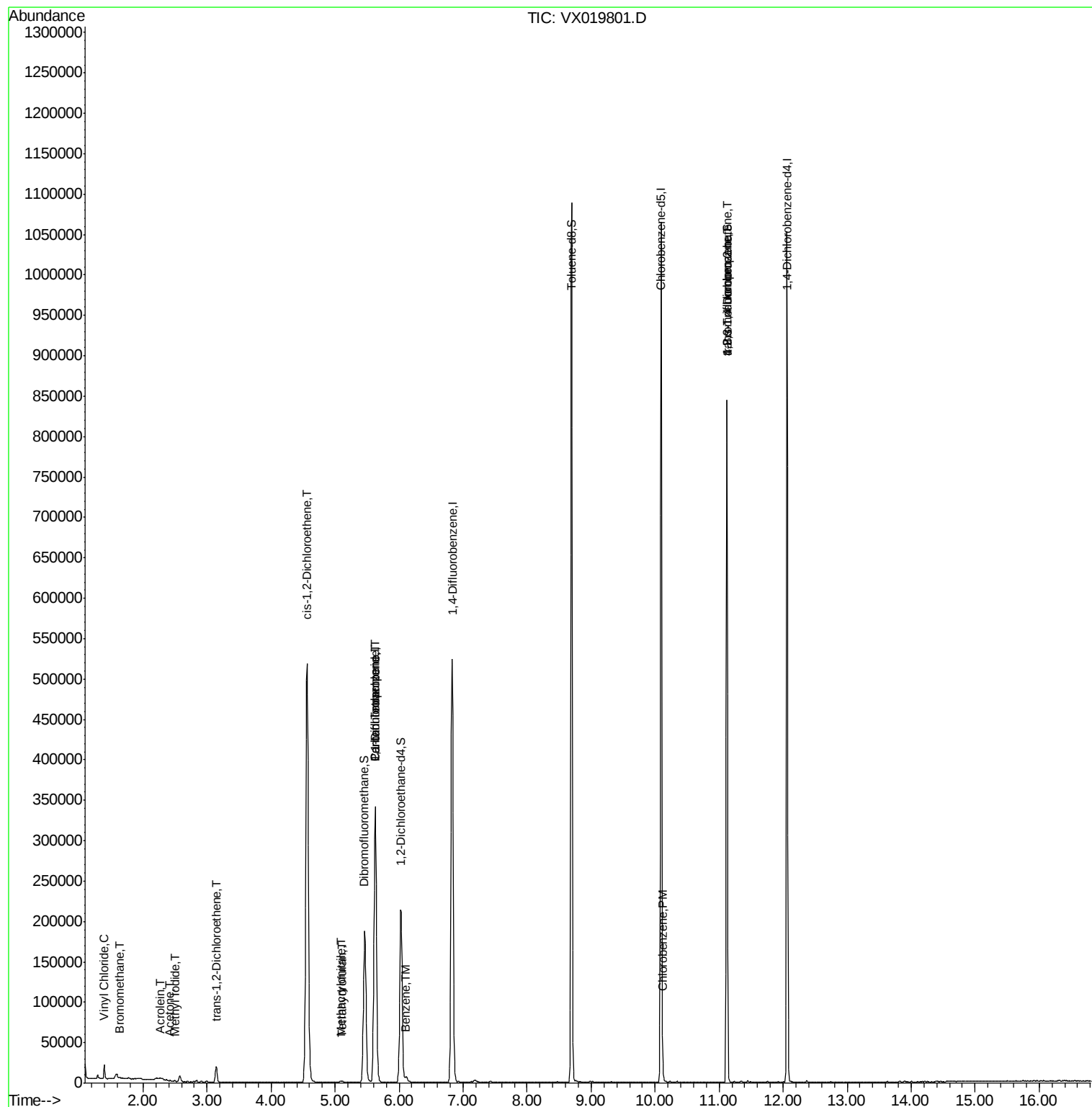
					Qvalue
4) Vinyl Chloride	1.39	62	9487	2.509	ug/l 98
5) Bromomethane	1.64	94	856	0.682	ug/l # 80
10) Methyl Iodide	2.49	142	1520	0.342	ug/l 98
11) Tert butyl alcohol	3.01	59	830	Below Cal	# 73
13) Acrolein	2.27	56	115	0.238	ug/l # 14
16) Acetone	2.42	43	1312	0.797	ug/l # 82
20) Methylene Chloride	2.84	84	392	Below Cal	# 92
21) trans-1,2-Dichloroethene	3.14	96	7815	2.196	ug/l 98
27) cis-1,2-Dichloroethene	4.56	96	345146	82.891	ug/l 89
29) Tetrahydrofuran	5.10	42	1529	0.939	ug/l 93
36) 1,1-Dichloropropene	5.63	75	24790	5.050	ug/l # 48
38) Carbon Tetrachloride	5.62	117	32814	6.827	ug/l # 17
40) Benzene	6.11	78	7502	0.500	ug/l 99
41) Methacrylonitrile	5.10	41	985	0.362	ug/l # 40
65) Chlorobenzene	10.12	112	5301	0.535	ug/l 98
76) 1,2,3-Trichloropropane	11.12	75	111805	22.948	ug/l # 39
81) trans-1,4-Dichloro-2-buten	11.12	75	111805	66.340	ug/l # 12

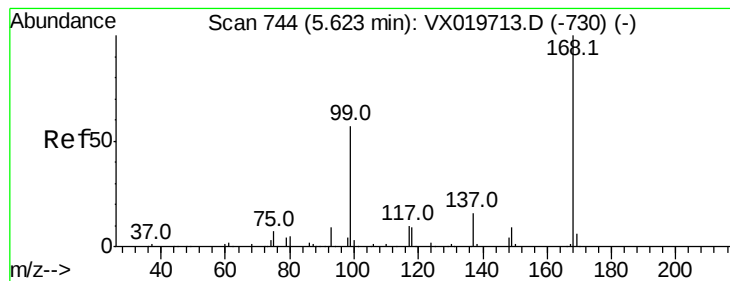
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

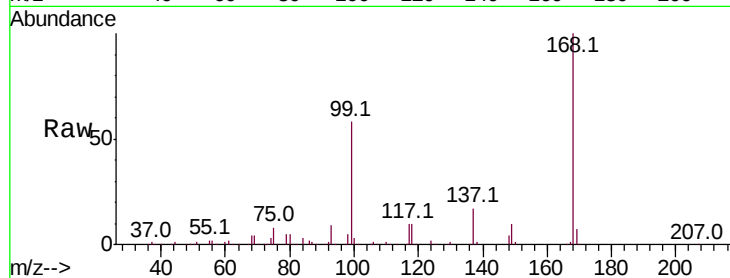
TU032-32-6132-120720

Tot Ion:168 Resp: 333097

Ion Ratio Lower Upper

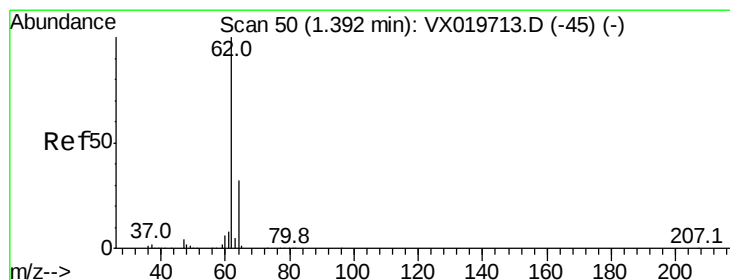
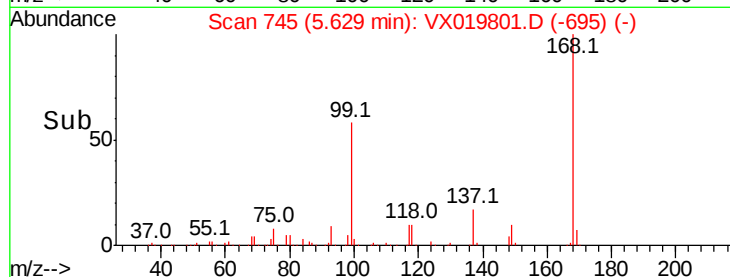
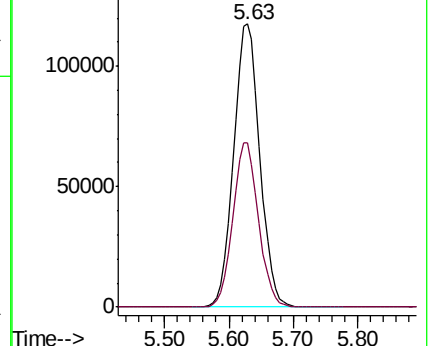
168 100

99 58.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 2.509 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019801.D

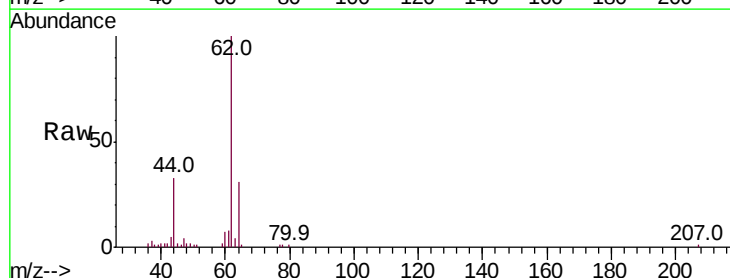
Acq: 10 Dec 2020 01:29

Tgt Ion: 62 Resp: 9487

Ion Ratio Lower Upper

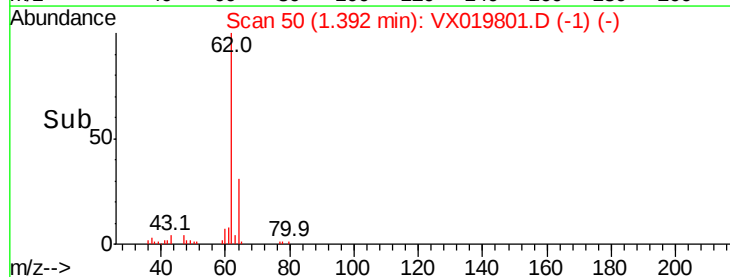
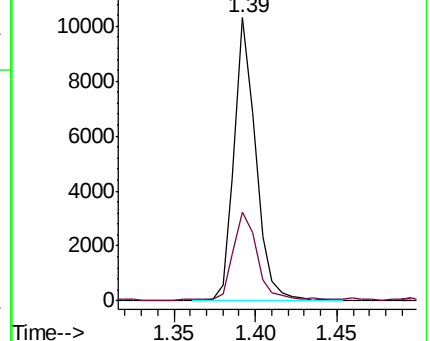
62 100

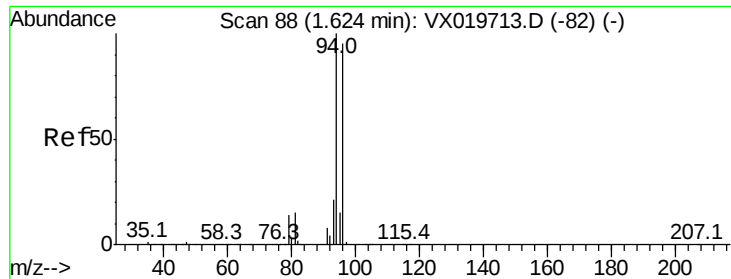
64 30.9 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.682 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

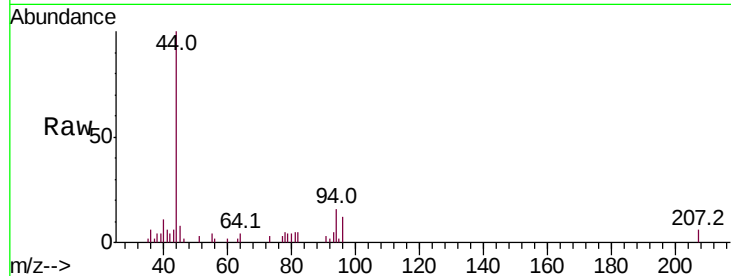
TU032-32-6132-120720

Tot Ion: 94 Resp: 856

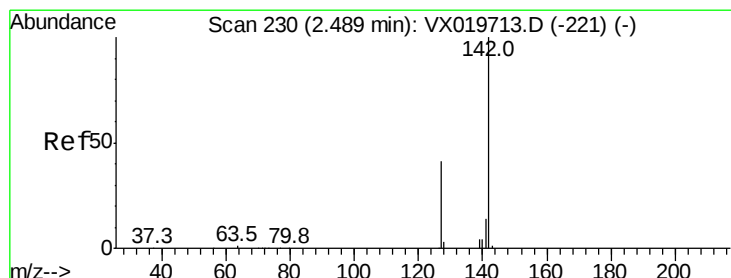
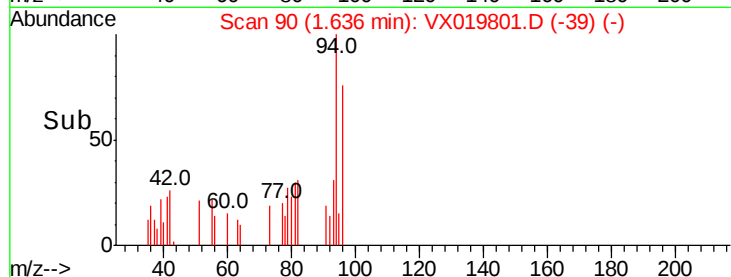
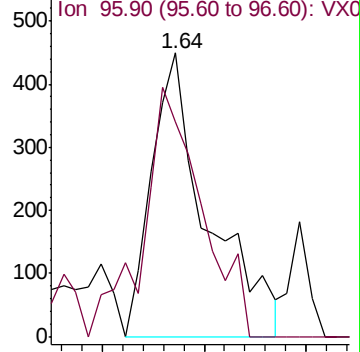
Ion Ratio Lower Upper

94 100

96 75.9 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 0.342 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

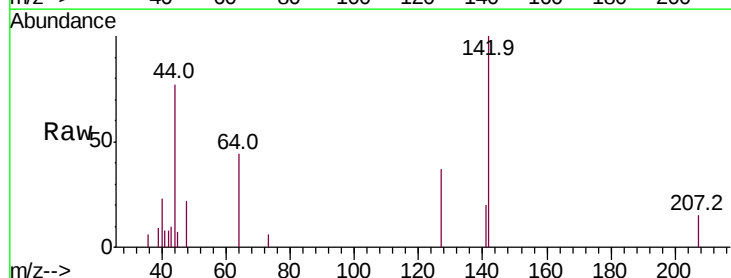
Tgt Ion: 142 Resp: 1520

Ion Ratio Lower Upper

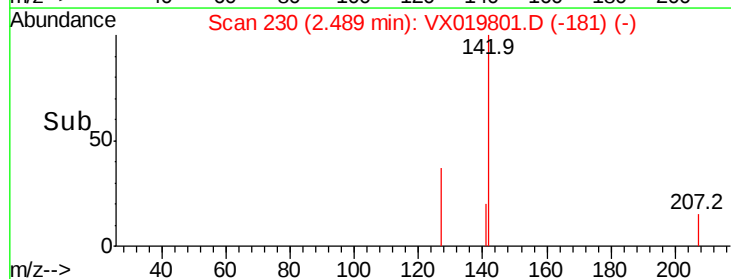
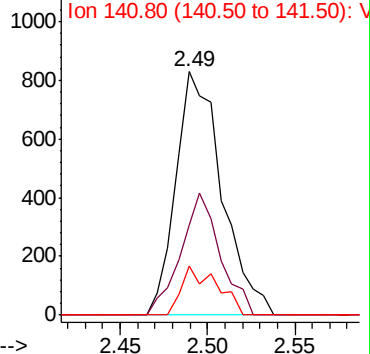
142 100

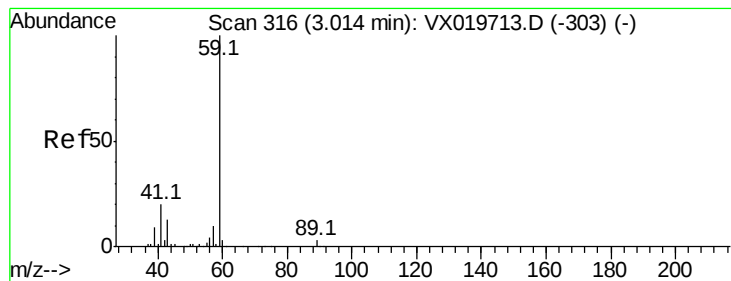
127 42.7 33.3 49.9

141 15.4 11.4 17.0



Abundance Ion 141.80 (141.50 to 142.50): V



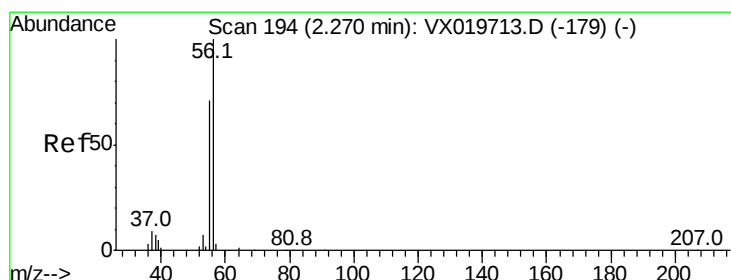
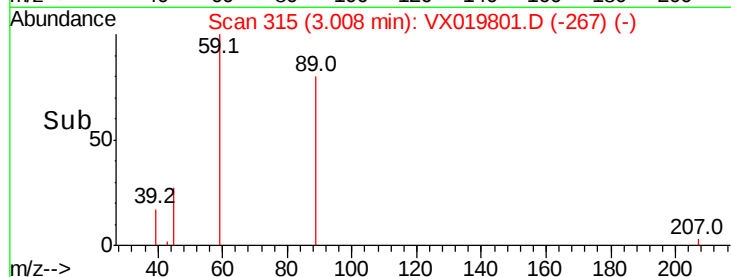
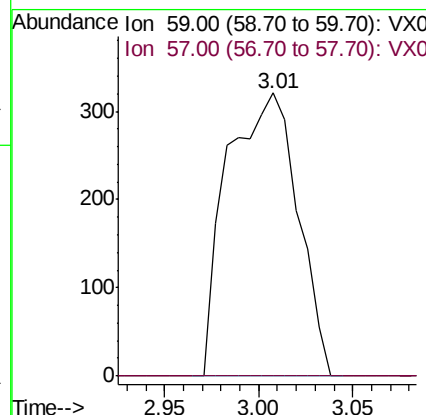
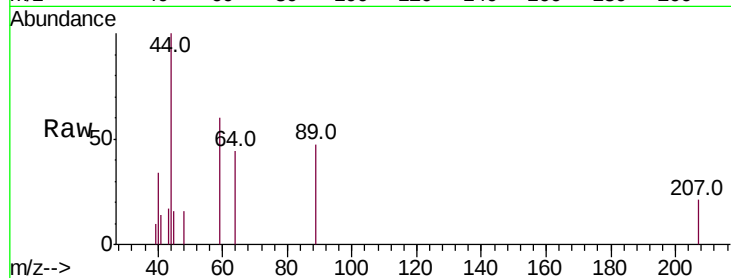


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX019801.D
 Acq: 10 Dec 2020 01:29

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6132-120720

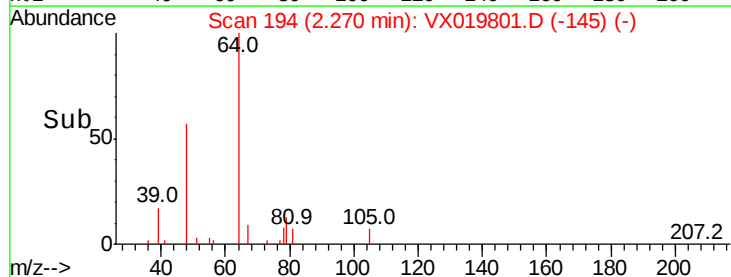
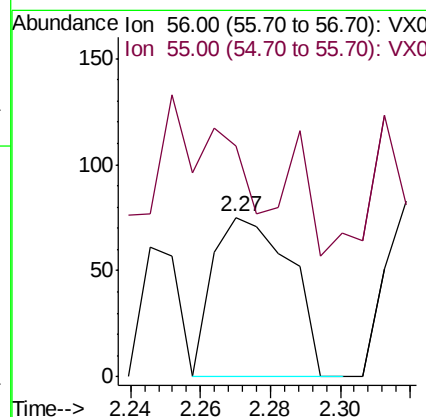
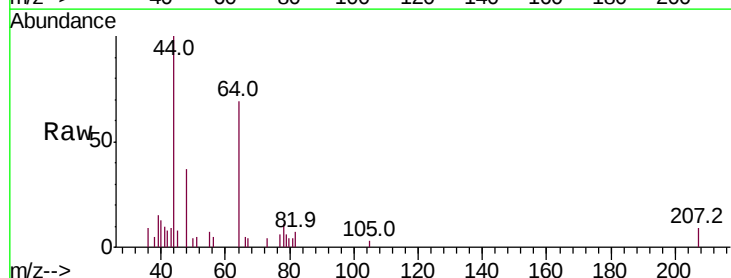
Tot Ion: 59 Resp: 830
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

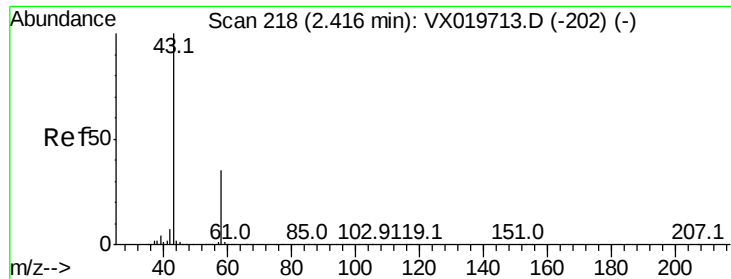


#13

Acrolein
 Concen: 0.238 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. 0.00 min
 Lab File: VX019801.D
 Acq: 10 Dec 2020 01:29

Tgt Ion: 56 Resp: 115
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.4 84.6#





#16

Acetone

Concen: 0.797 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

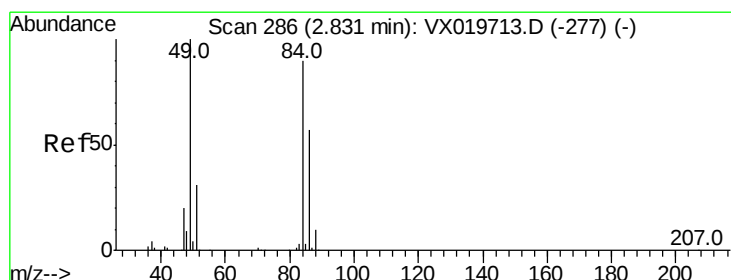
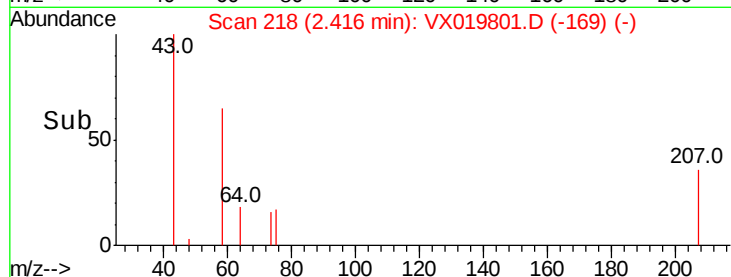
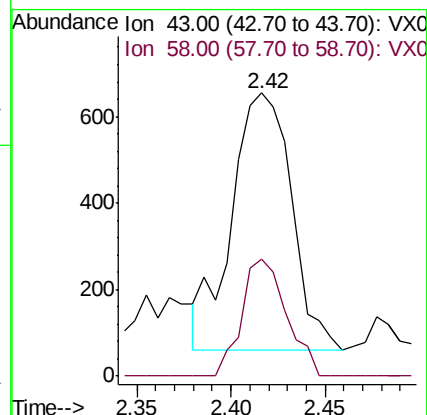
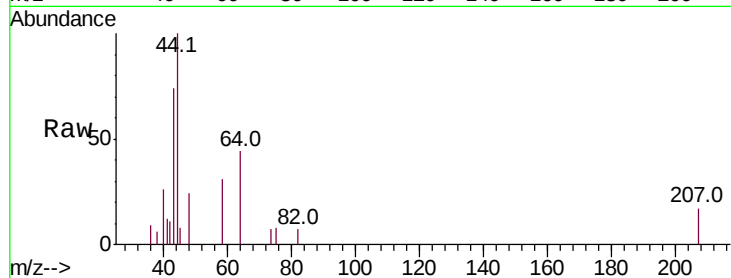
TU032-32-6132-120720

Tot Ion: 43 Resp: 1312

Ion Ratio Lower Upper

43 100

58 45.5 27.8 41.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Tgt Ion: 84 Resp: 392

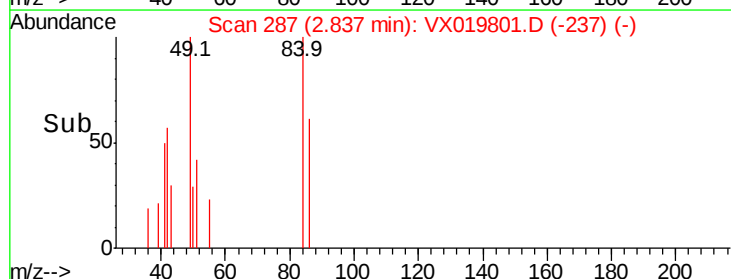
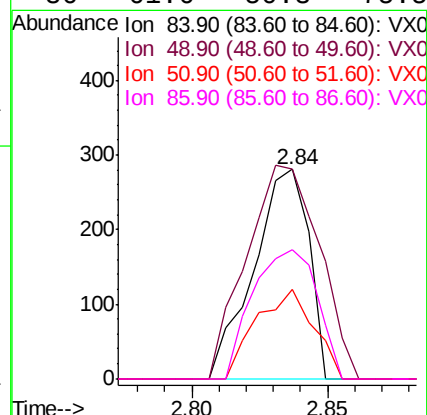
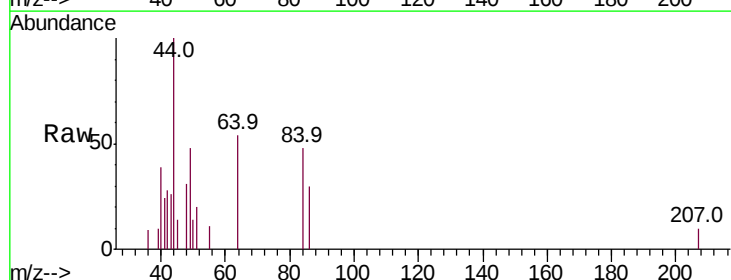
Ion Ratio Lower Upper

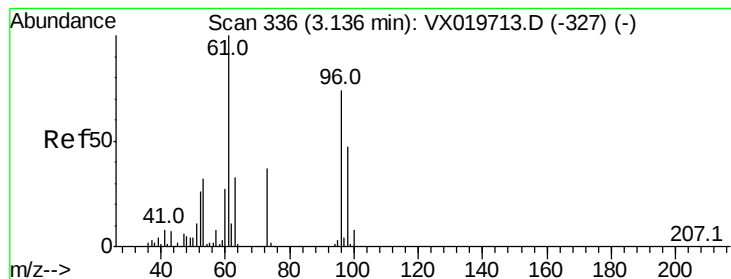
84 100

49 100.4 88.6 132.8

51 42.3 27.0 40.6#

86 61.6 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 2.196 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6132-120720

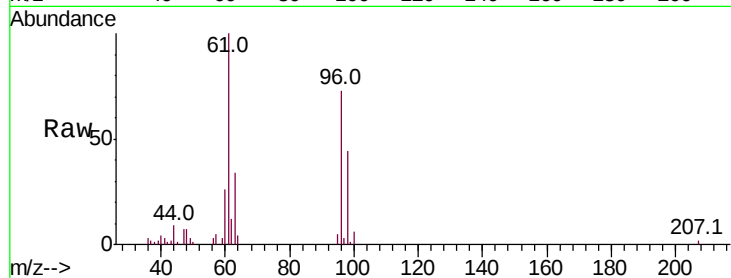
Tot Ion: 96 Resp: 7815

Ion Ratio Lower Upper

96 100

61 136.1 107.7 161.5

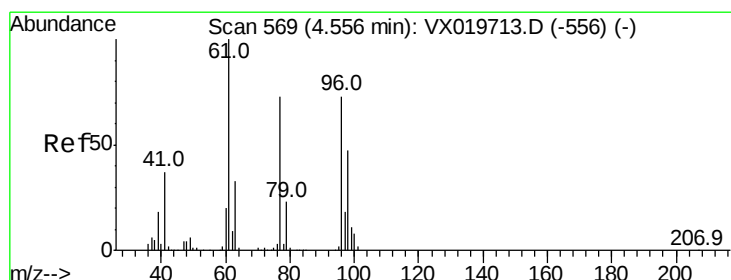
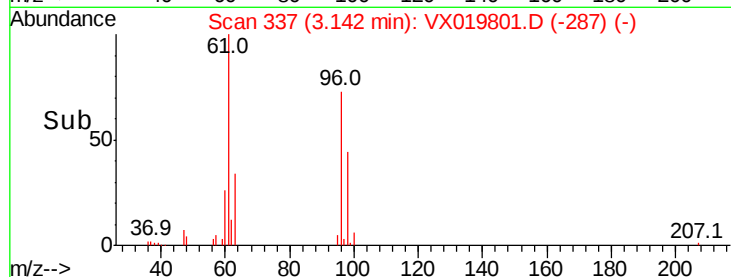
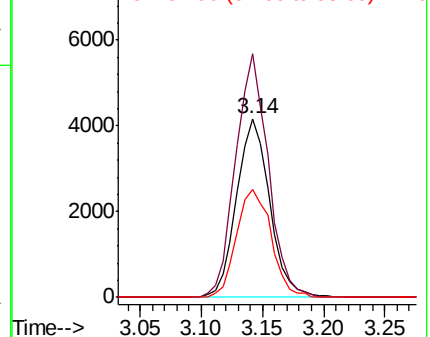
98 60.1 50.4 75.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 82.891 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

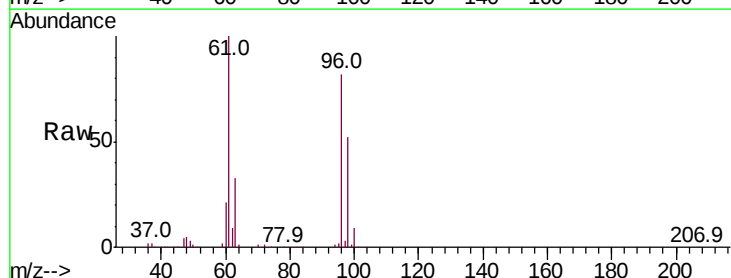
Tgt Ion: 96 Resp: 345146

Ion Ratio Lower Upper

96 100

61 122.8 0.0 285.6

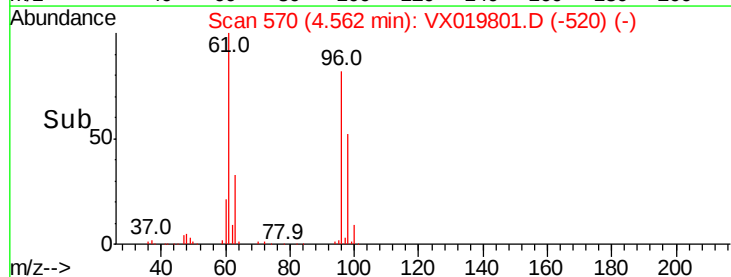
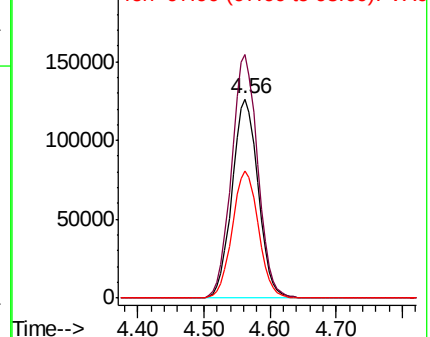
98 64.2 0.0 129.6

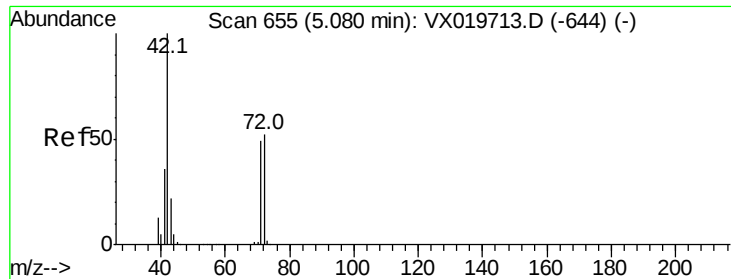


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

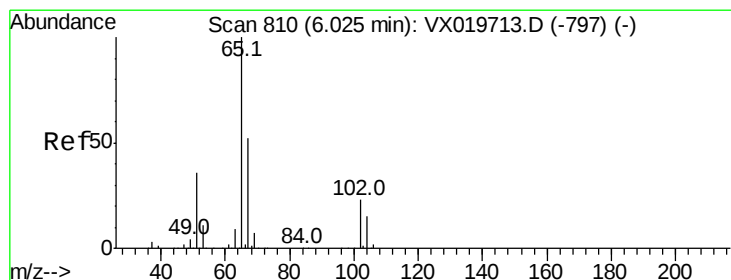
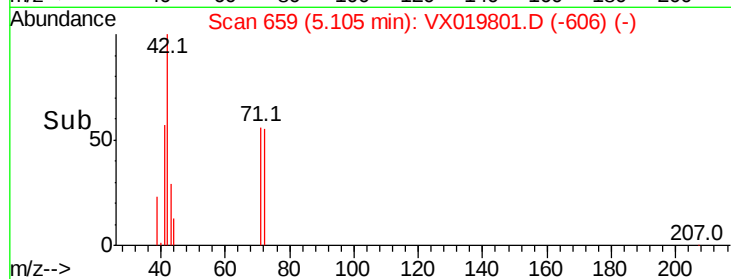
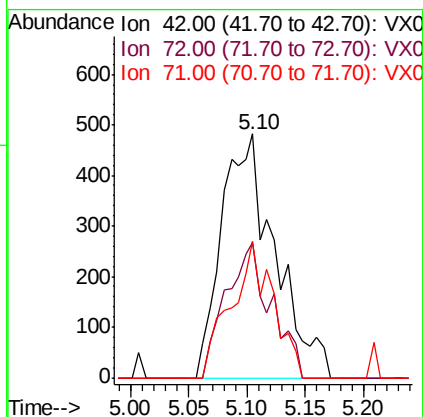
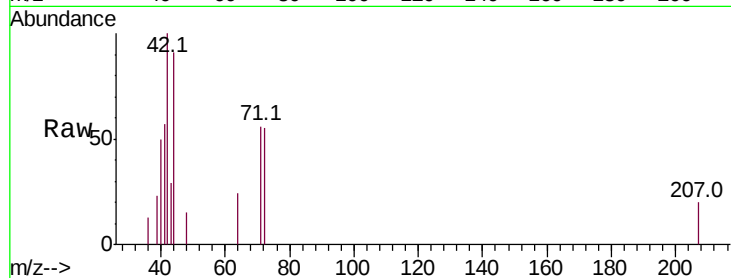




#29
Tetrahydrofuran
Concen: 0.939 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX019801.D
Acq: 10 Dec 2020 01:29

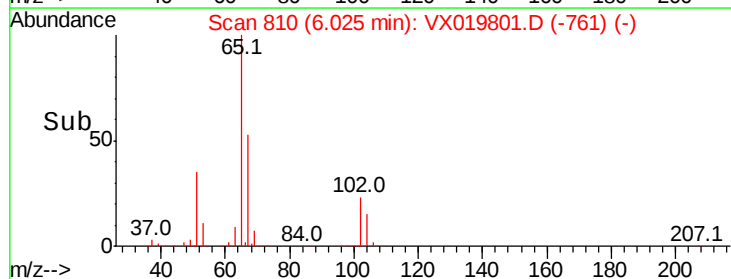
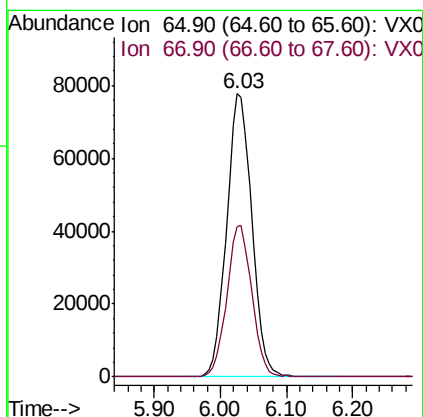
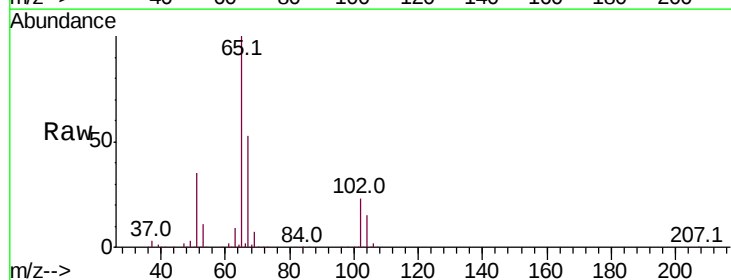
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6132-120720

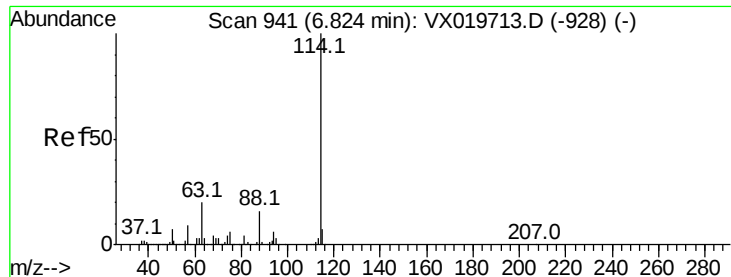
Tot Ion: 42 Resp: 1529
Ion Ratio Lower Upper
42 100
72 46.2 41.7 62.5
71 44.1 38.4 57.6



#33
1,2-Dichloroethane-d4
Concen: 46.873 ug/l
RT: 6.03 min Scan# 810
Delta R.T. 0.00 min
Lab File: VX019801.D
Acq: 10 Dec 2020 01:29

Tgt Ion: 65 Resp: 205202
Ion Ratio Lower Upper
65 100
67 53.0 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: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6132-120720

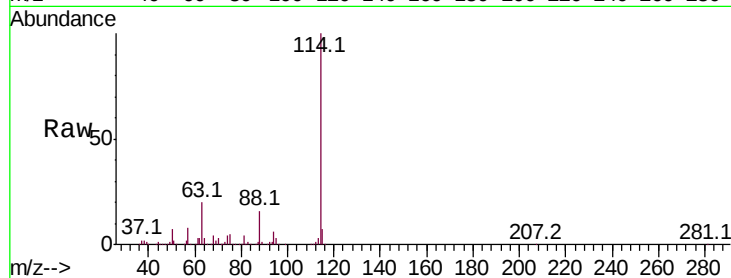
Tot Ion:114 Resp: 543188

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

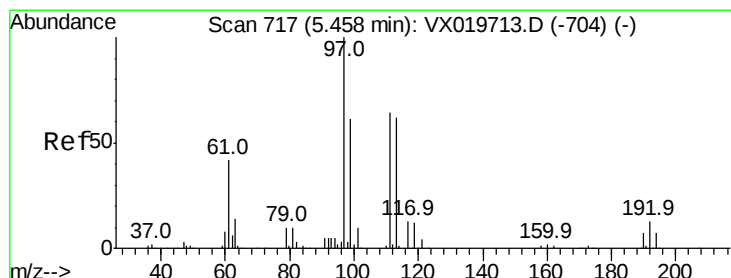
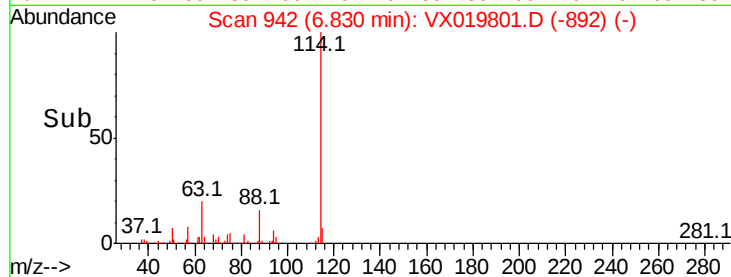
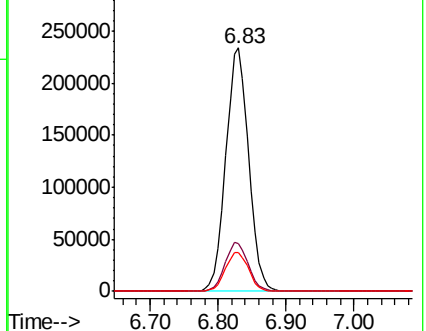
88 15.9 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.311 ug/l

RT: 5.46 min Scan# 717

Delta R.T. 0.00 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

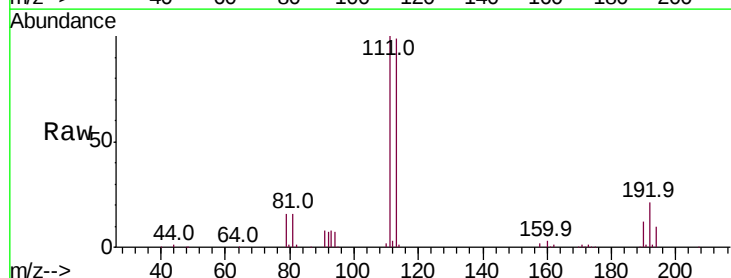
Tgt Ion:113 Resp: 166087

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

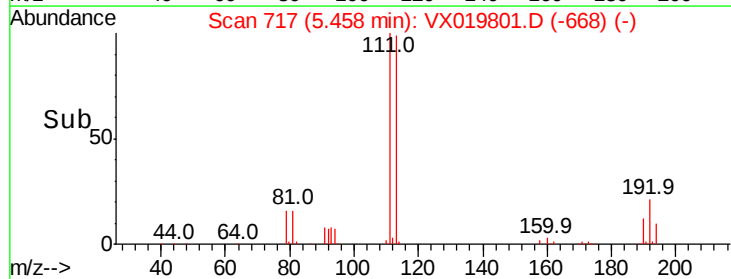
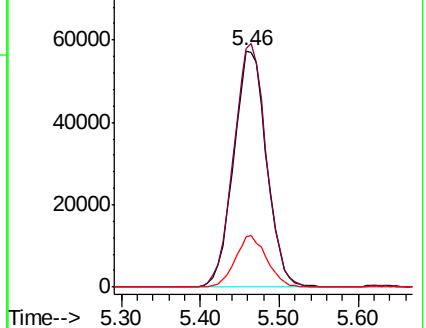
192 20.9 16.7 25.1

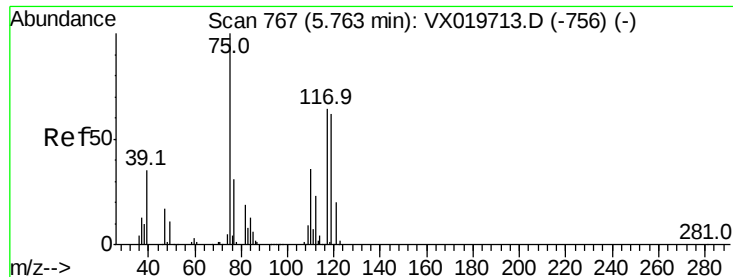


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

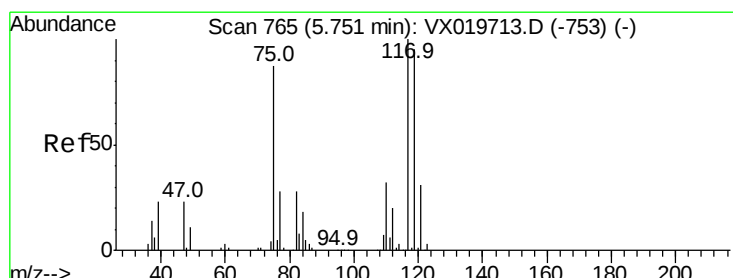
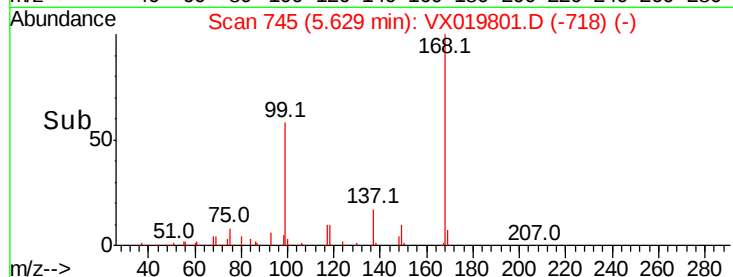
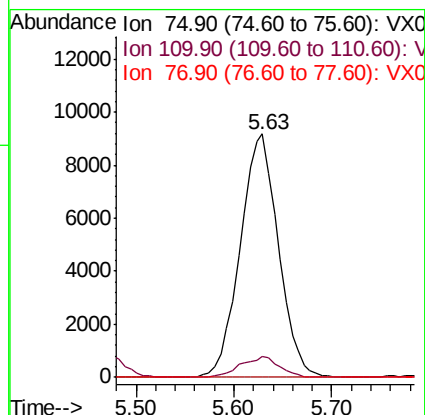
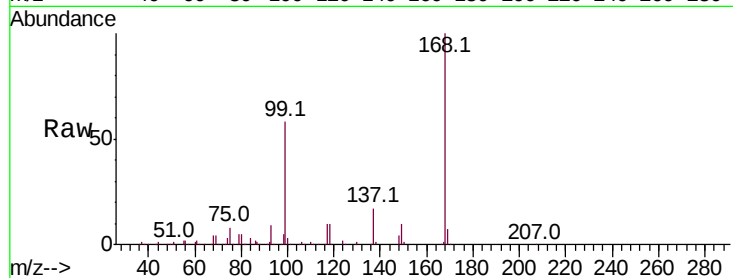




#36
 1,1-Dichloropropene
 Concen: 5.050 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019801.D
 Acq: 10 Dec 2020 01:29

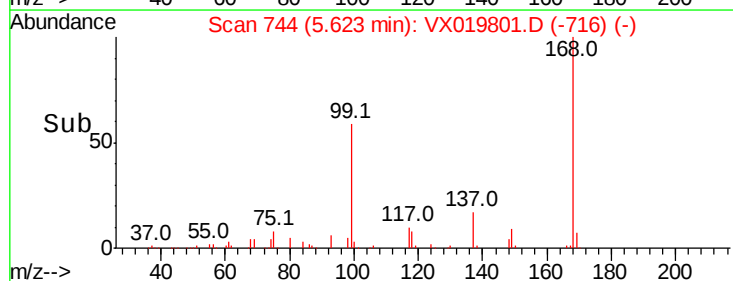
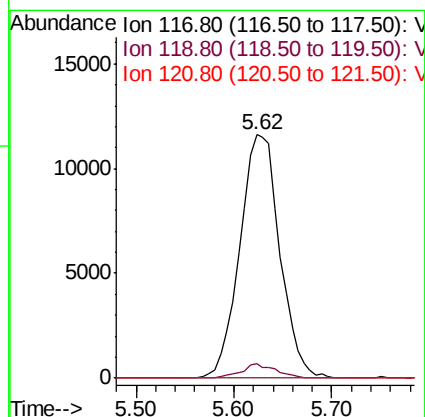
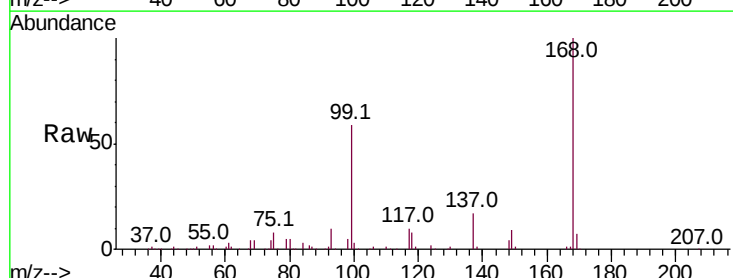
Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-6132-120720

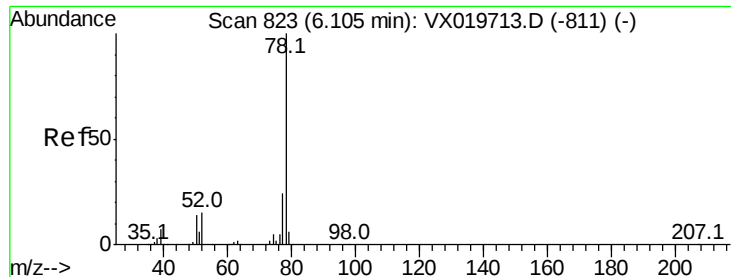
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.4#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 6.827 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019801.D
 Acq: 10 Dec 2020 01:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	76.2	114.2#
121	0.0	24.8	37.2#





#40

Benzene

Concen: 0.500 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.01 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

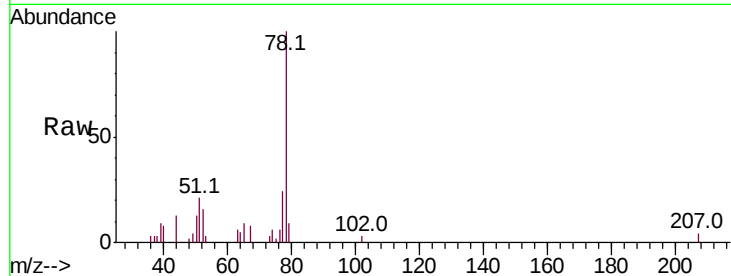
TU032-32-6132-120720

Tot Ion: 78 Resp: 7502

Ion Ratio Lower Upper

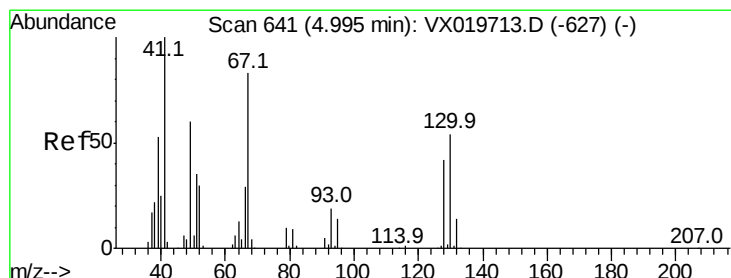
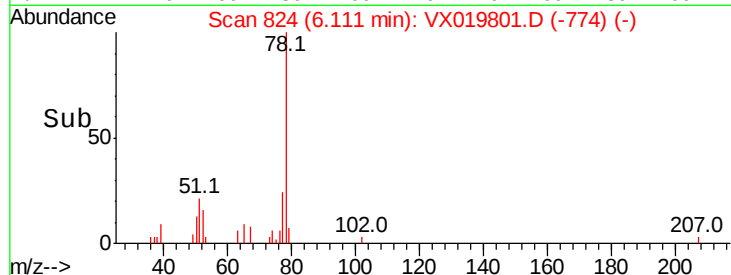
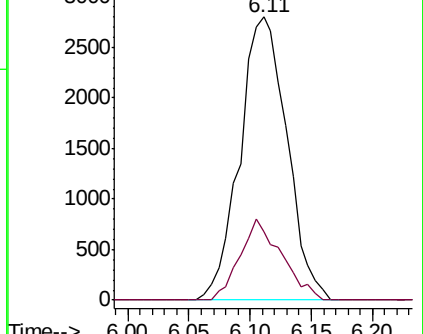
78 100

77 24.0 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#41

Methacrylonitrile

Concen: 0.362 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Tgt Ion: 41 Resp: 985

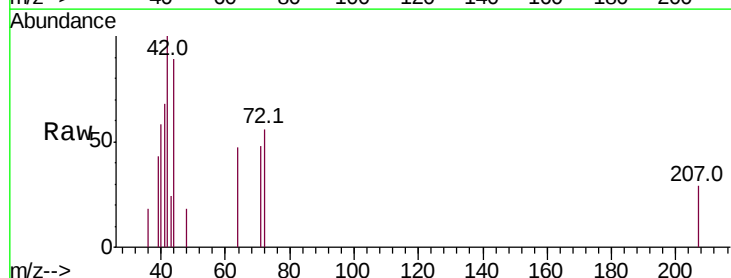
Ion Ratio Lower Upper

41 100

39 43.1 42.5 63.7

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

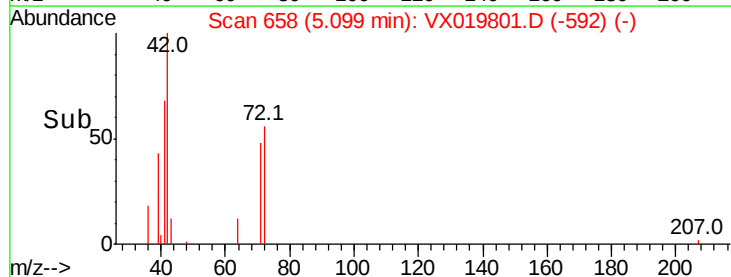
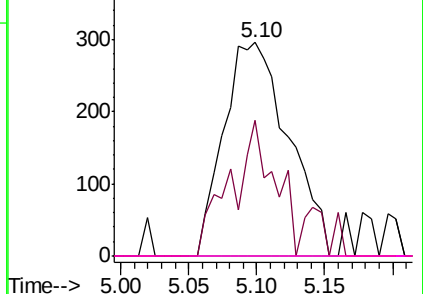


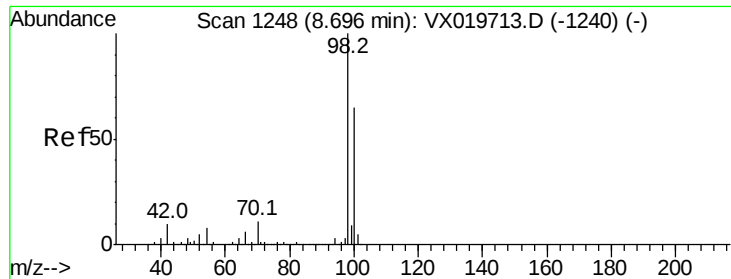
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 48.713 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

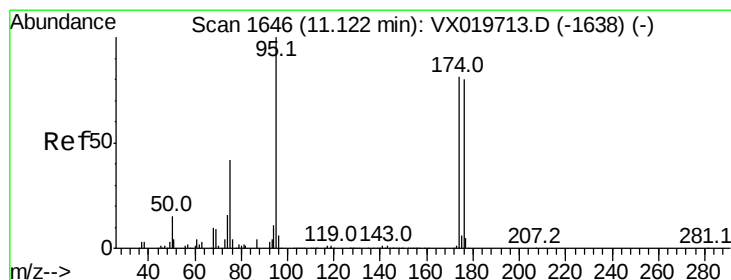
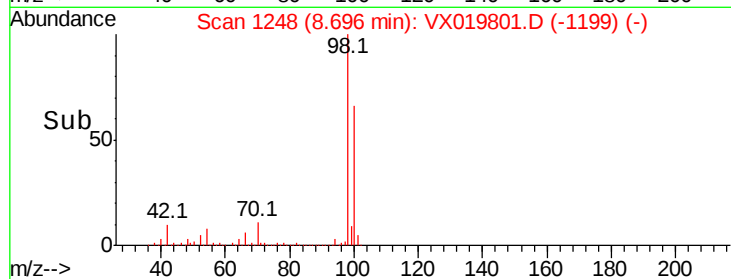
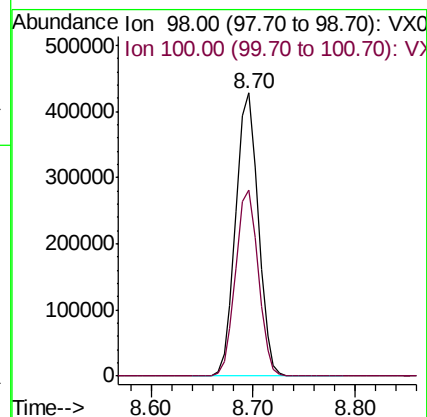
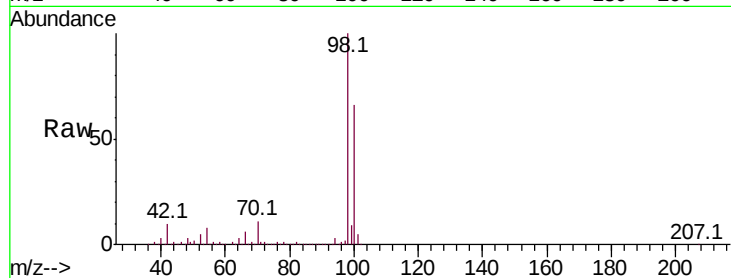
TU032-32-6132-120720

Tot Ion: 98 Resp: 652870

Ion Ratio Lower Upper

98 100

100 66.1 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.382 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

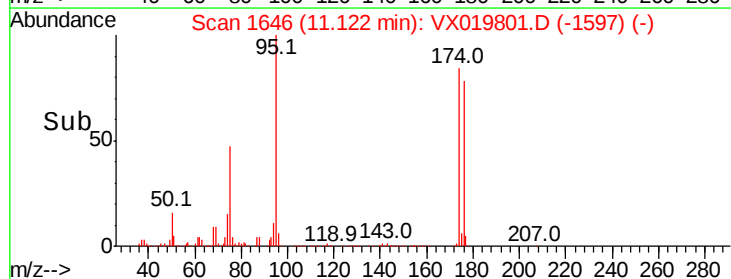
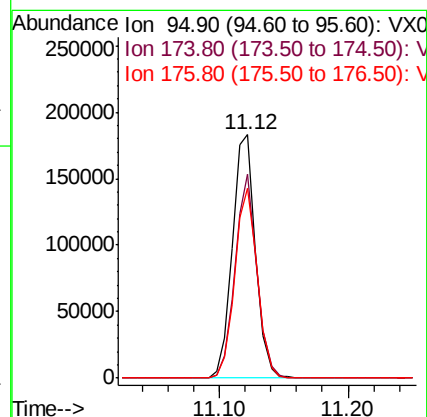
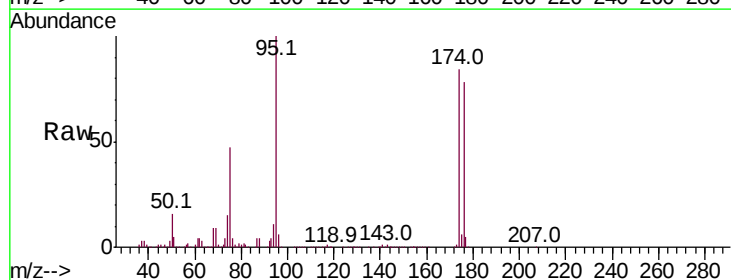
Tgt Ion: 95 Resp: 231498

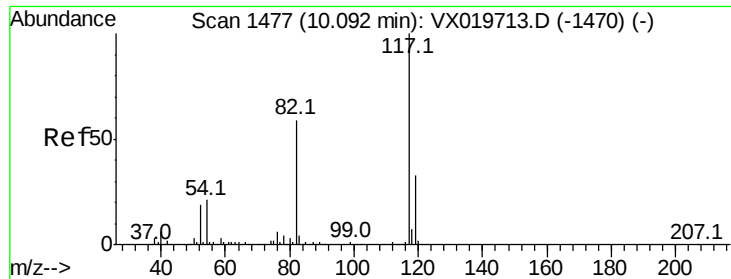
Ion Ratio Lower Upper

95 100

174 78.8 0.0 154.6

176 76.1 0.0 155.8

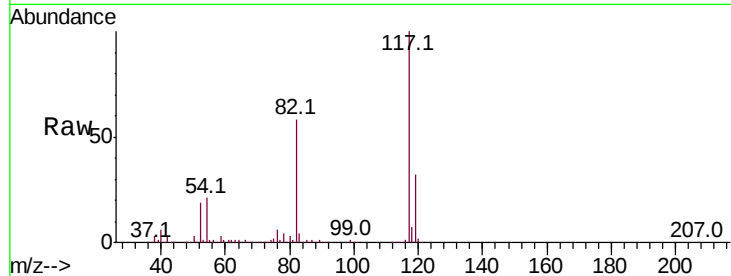




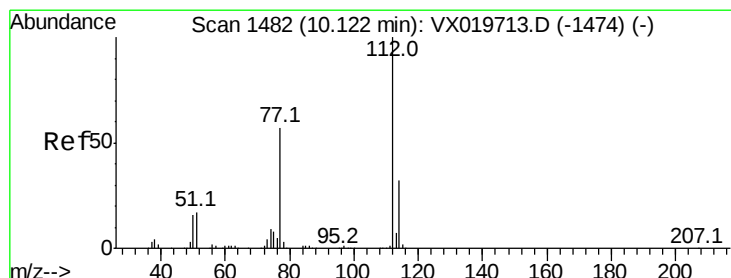
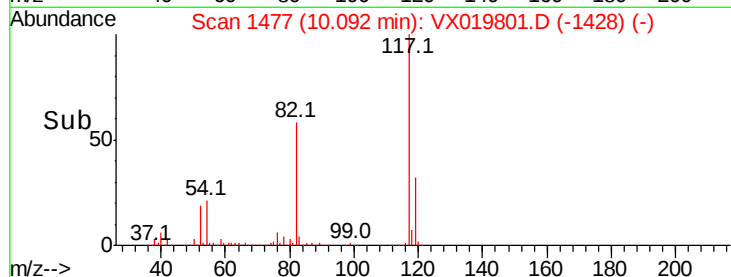
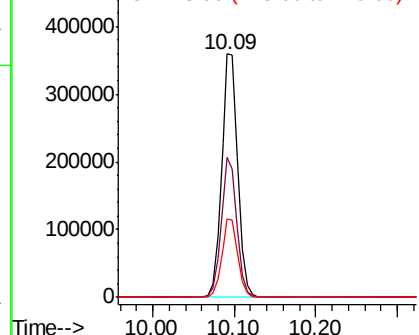
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VX019801.D
Acq: 10 Dec 2020 01:29

Instrument :
MSVOA_X
ClientSampleId :
TU032-32-6132-120720

Tot Ion:117 Resp: 497330
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 32.4 26.6 39.8

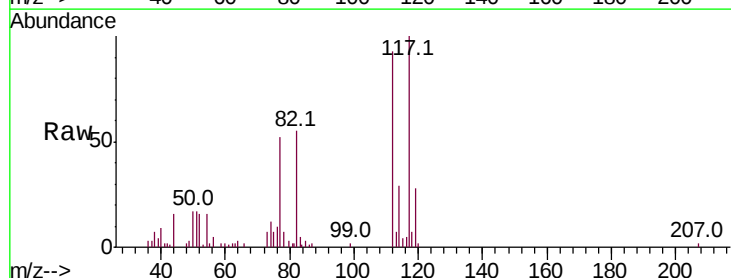


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

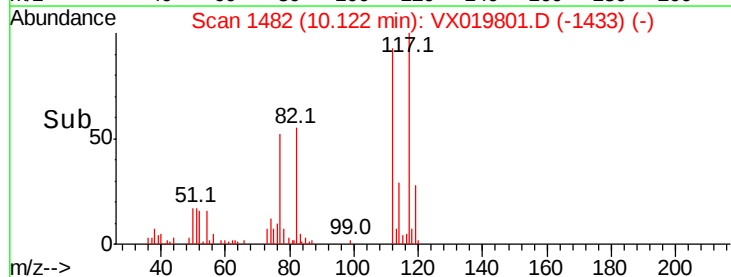
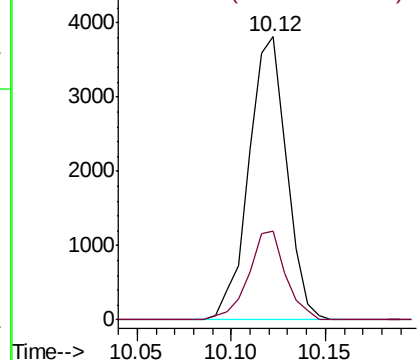


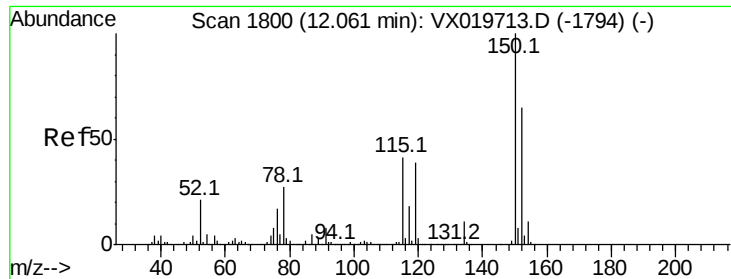
#65
Chlorobenzene
Concen: 0.535 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019801.D
Acq: 10 Dec 2020 01:29

Tgt Ion:112 Resp: 5301
Ion Ratio Lower Upper
112 100
114 31.3 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6132-120720

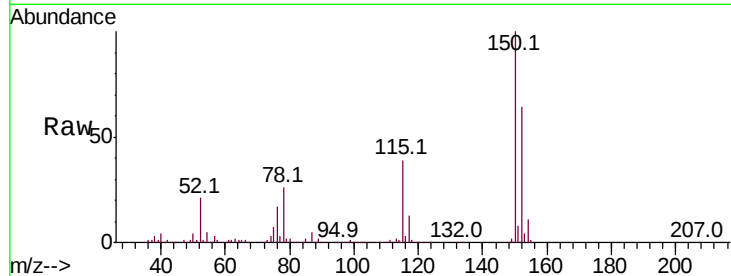
Tot Ion:152 Resp: 217227

Ion Ratio Lower Upper

152 100

115 60.2 41.1 123.3

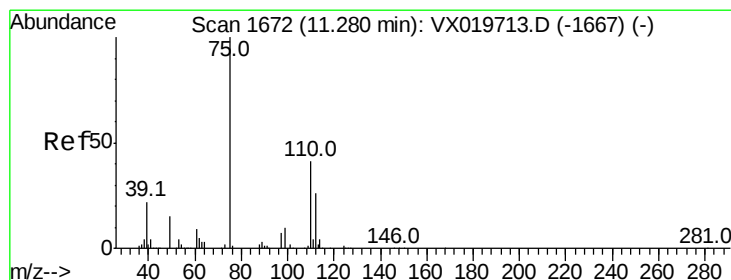
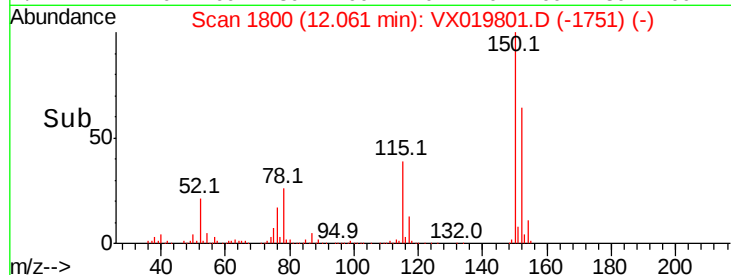
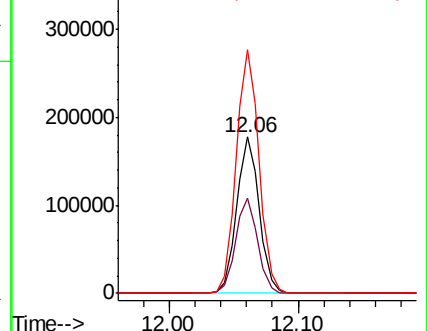
150 157.7 0.0 349.0



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: 22.948 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019801.D

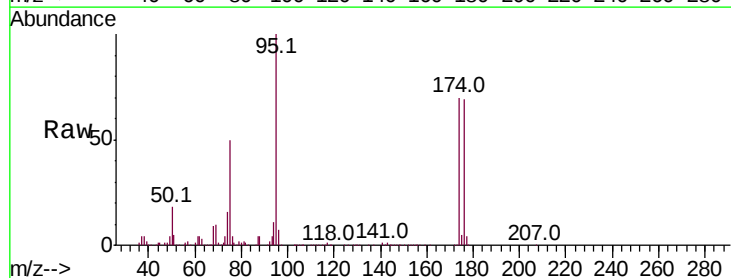
Acq: 10 Dec 2020 01:29

Tgt Ion: 75 Resp: 111805

Ion Ratio Lower Upper

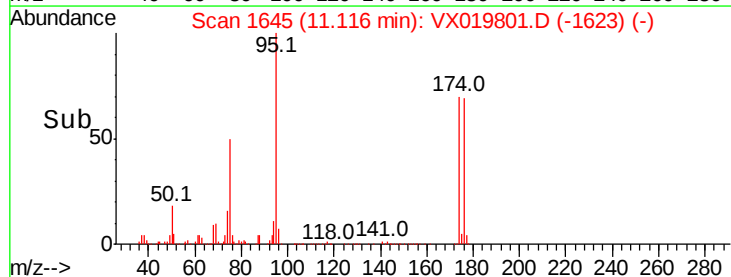
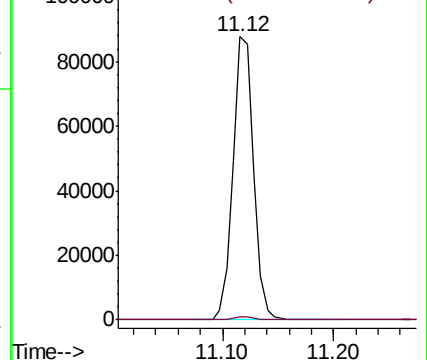
75 100

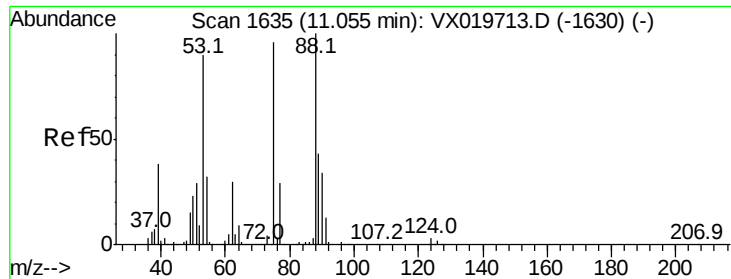
77 1.1 19.1 57.5#



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: 66.340 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019801.D

Acq: 10 Dec 2020 01:29

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-6132-120720

Tot Ion: 75 Resp: 111805

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

