

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019799.D
 Acq On : 10 Dec 2020 00:42
 Operator : JC/MD
 Sample : L4993-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Dec 10 06:44:32 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	335889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	545728	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	496264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	219624	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	204013	46.21	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	92.42%	
35) Dibromofluoromethane		5.46	113	165468	46.92	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	93.84%	
50) Toluene-d8		8.70	98	655736	48.70	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.40%	
62) 4-Bromofluorobenzene		11.12	95	229176	44.72	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	89.44%	

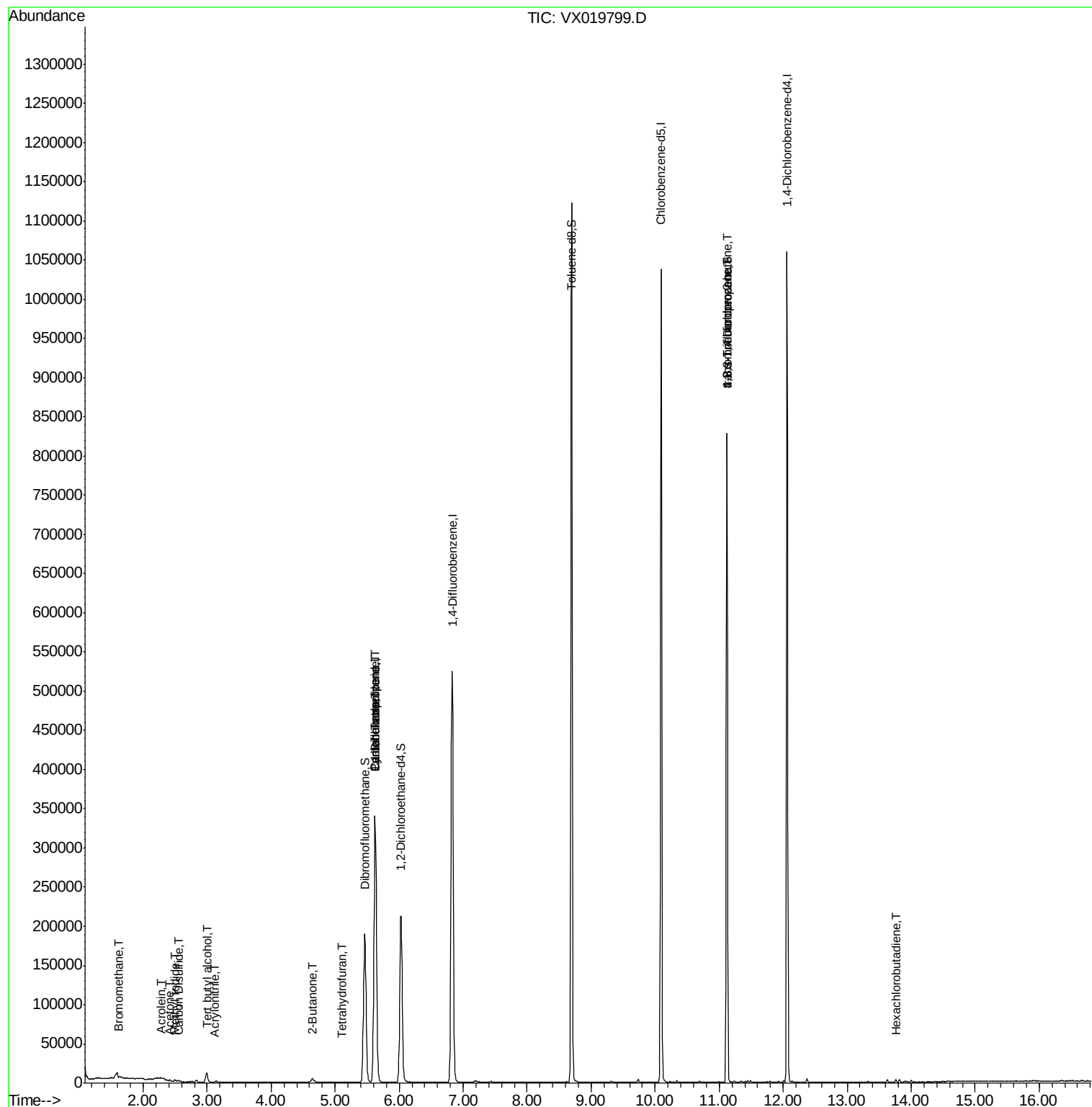
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	702	0.554	ug/l #	72
10) Methyl Iodide	2.50	142	2745	0.612	ug/l	98
11) Tert butyl alcohol	3.00	59	7091	5.255	ug/l #	74
13) Acrolein	2.28	56	247	0.507	ug/l #	61
15) Acrylonitrile	3.11	53	641	0.321	ug/l	91
16) Acetone	2.42	43	1091	0.657	ug/l	99
17) Carbon Disulfide	2.55	76	2057	0.233	ug/l #	91
20) Methylene Chloride	2.83	84	1007	Below Cal		96
25) 2-Butanone	4.64	43	859	0.337	ug/l	95
29) Tetrahydrofuran	5.09	42	514	0.313	ug/l #	35
31) Cyclohexane	5.62	56	6394	1.164	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	25109	5.092	ug/l #	49
38) Carbon Tetrachloride	5.63	117	33045	6.843	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	110641	22.462	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110641	64.932	ug/l #	12
94) Hexachlorobutadiene	13.76	225	563	0.282	ug/l	89

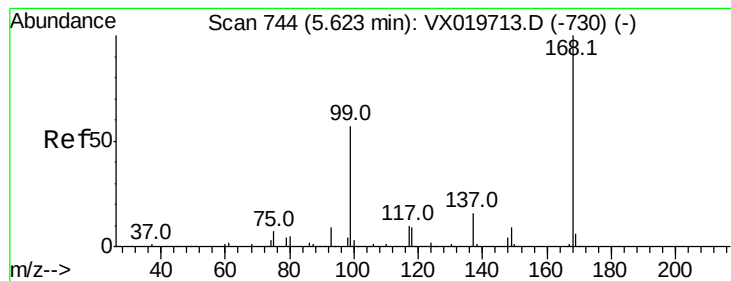
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.00 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

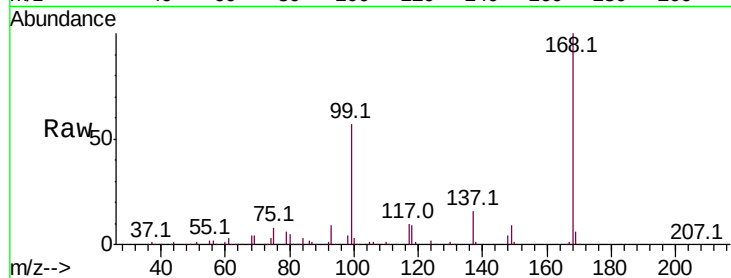
TRIP-BLANK

Tot Ion:168 Resp: 335889

Ion Ratio Lower Upper

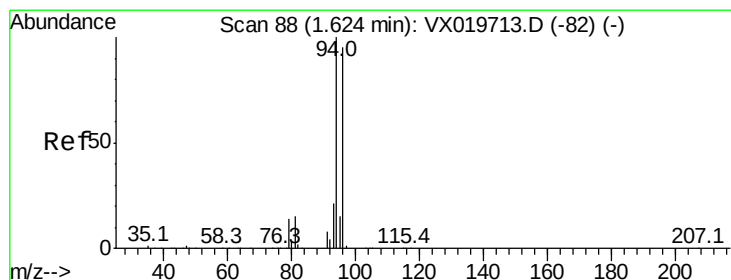
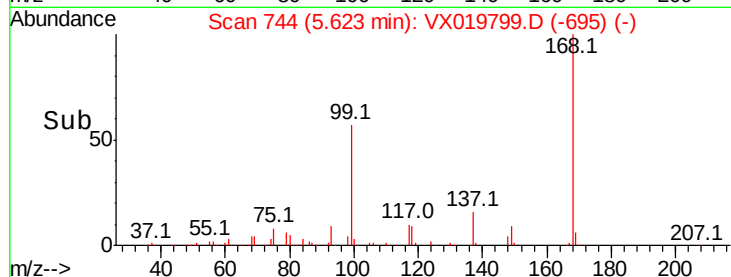
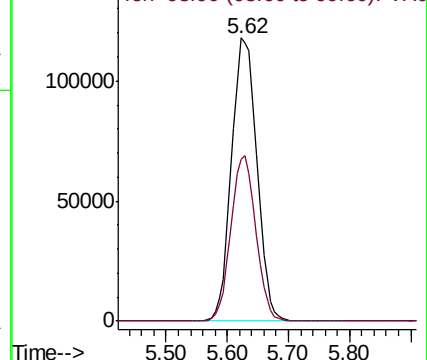
168 100

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



#5

Bromomethane

Concen: 0.554 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019799.D

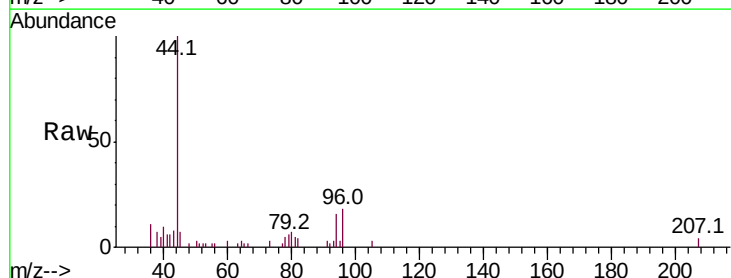
Acq: 10 Dec 2020 00:42

Tgt Ion: 94 Resp: 702

Ion Ratio Lower Upper

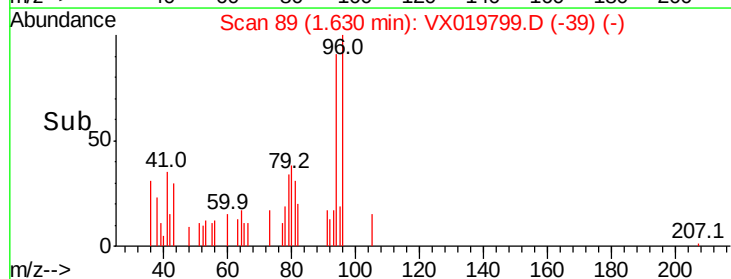
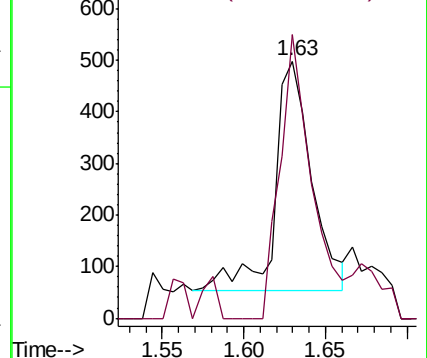
94 100

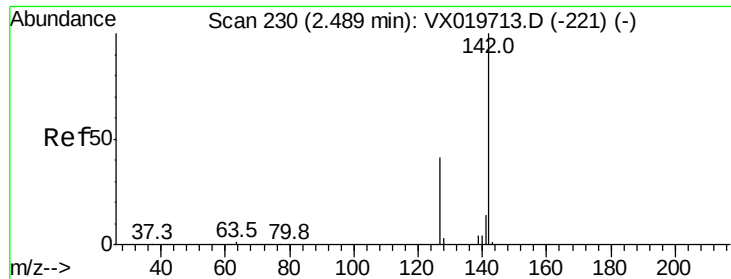
96 123.1 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

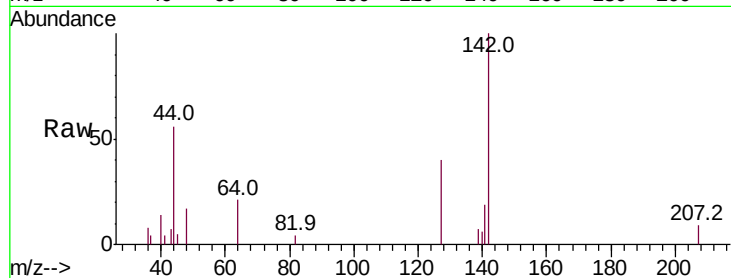




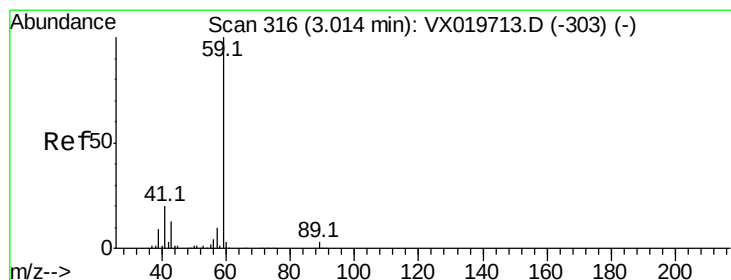
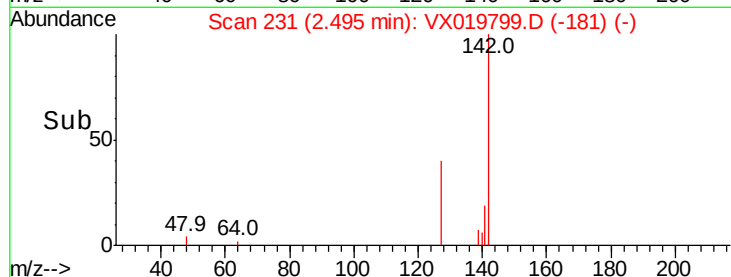
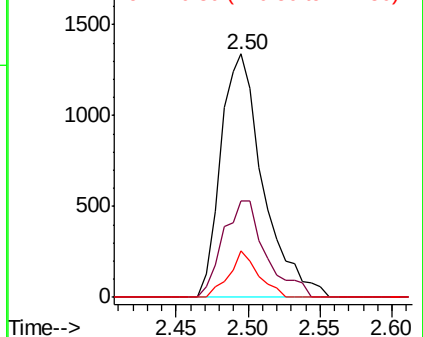
#10
Methyl Iodide
Concen: 0.612 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

Tot Ion:142 Resp: 2745
Ion Ratio Lower Upper
142 100
127 40.2 33.3 49.9
141 13.3 11.4 17.0

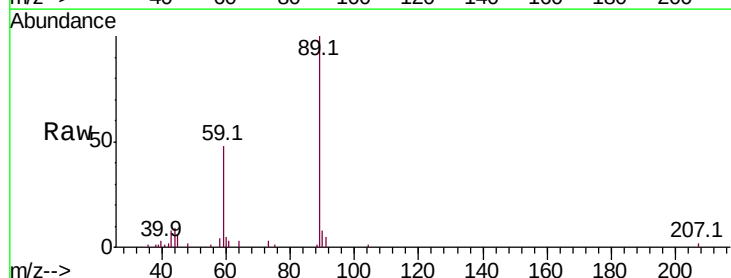


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

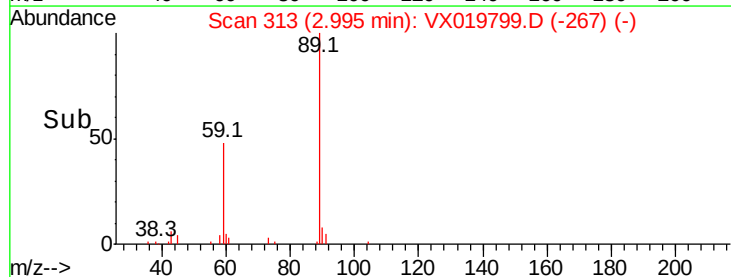
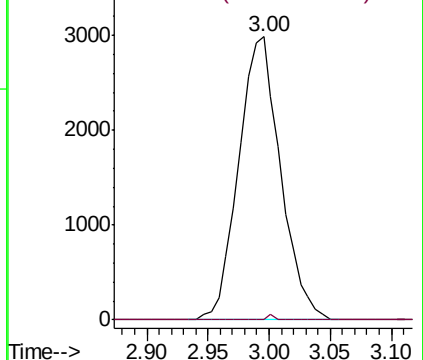


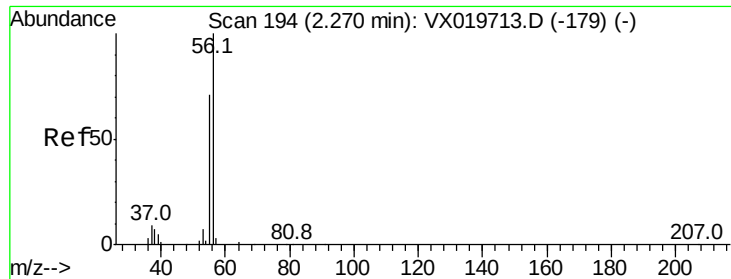
#11
Tert butyl alcohol
Concen: 5.255 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

Tgt Ion: 59 Resp: 7091
Ion Ratio Lower Upper
59 100
57 0.3 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: 0.507 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

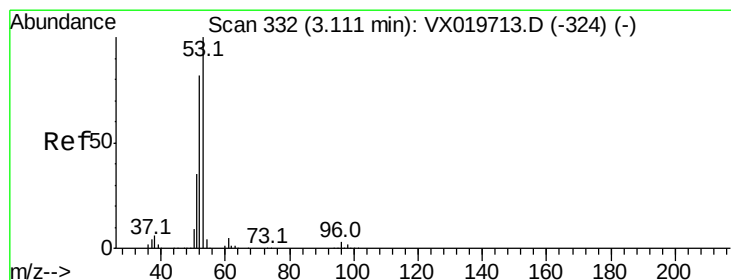
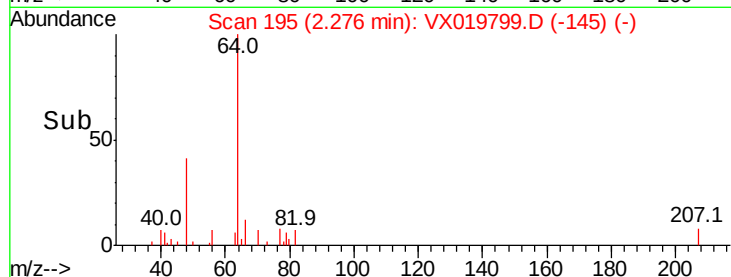
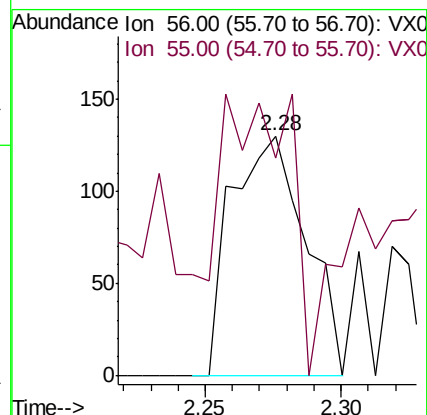
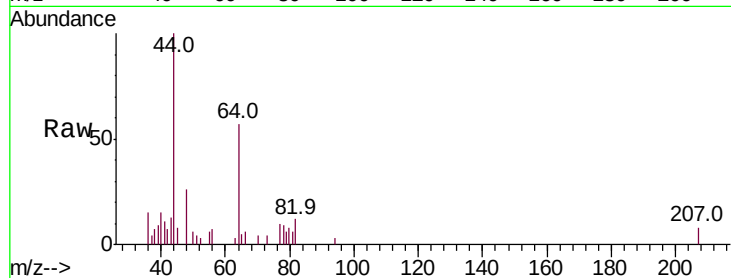
TRIP-BLANK

Tot Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 102.8 56.4 84.6#



#15

Acrylonitrile

Concen: 0.321 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.00 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

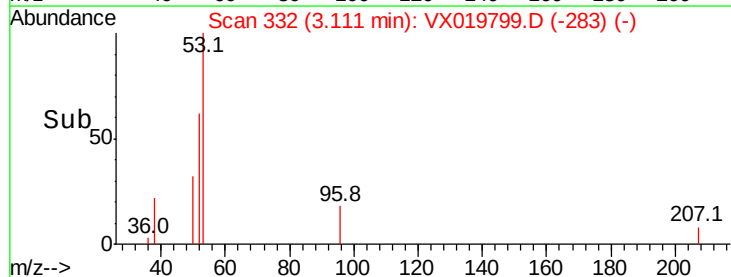
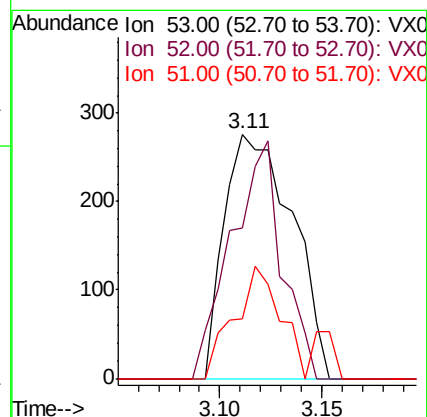
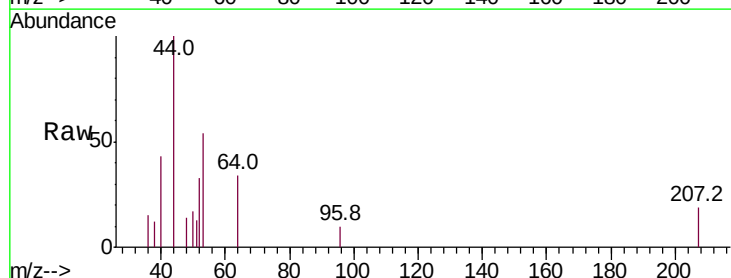
Tgt Ion: 53 Resp: 641

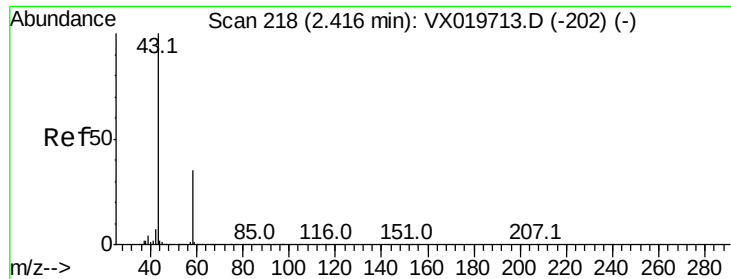
Ion Ratio Lower Upper

53 100

52 72.4 65.3 97.9

51 31.2 28.2 42.2





#16

Acetone

Concen: 0.657 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

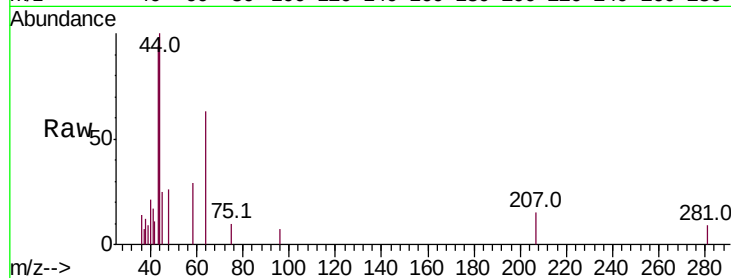
TRIP-BLANK

Tot Ion: 43 Resp: 1091

Ion Ratio Lower Upper

43 100

58 35.5 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

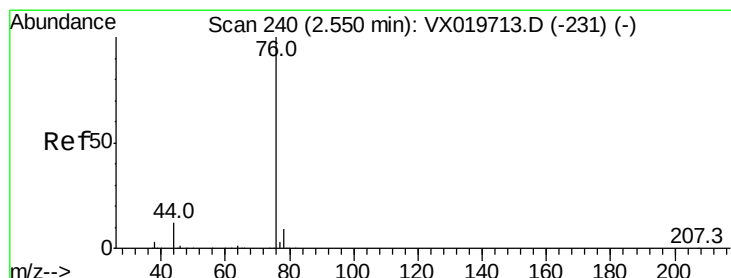
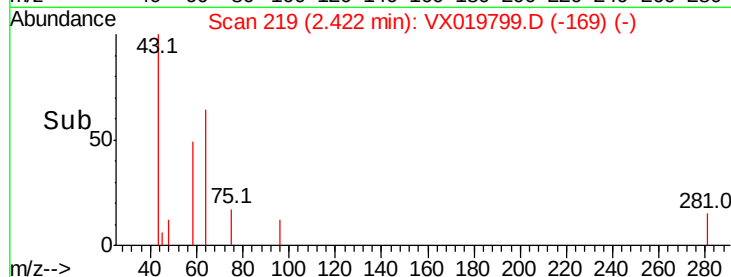
600

400

200

0

Time--> 2.35 2.40 2.45



#17

Carbon Disulfide

Concen: 0.233 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX019799.D

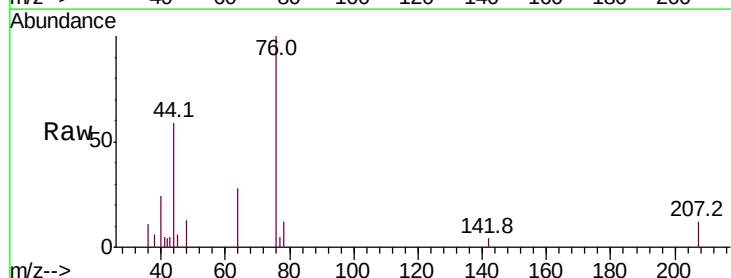
Acq: 10 Dec 2020 00:42

Tgt Ion: 76 Resp: 2057

Ion Ratio Lower Upper

76 100

78 12.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

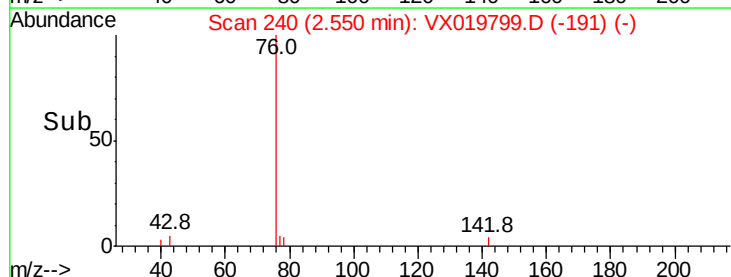
1500

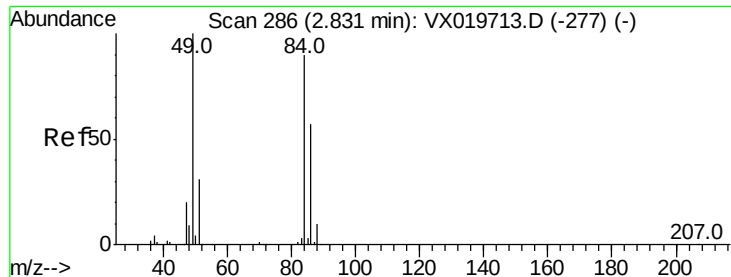
1000

500

0

Time--> 2.50 2.55 2.60

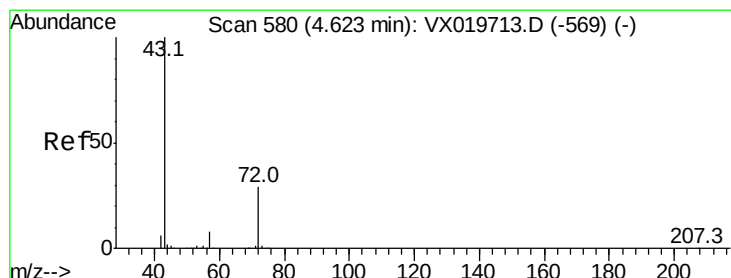
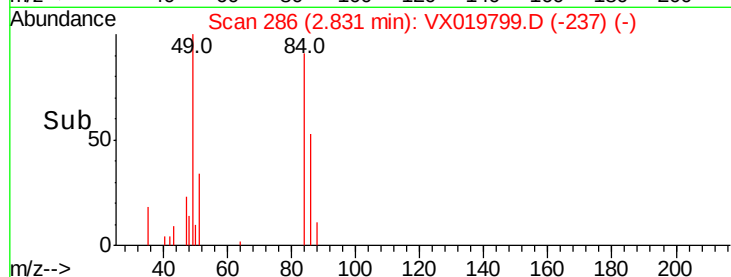
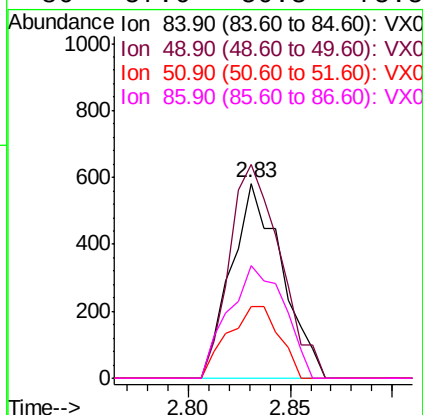
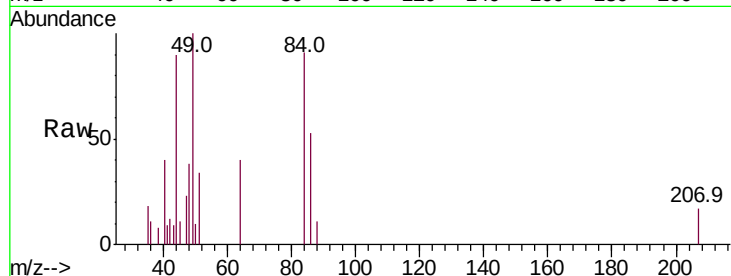




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

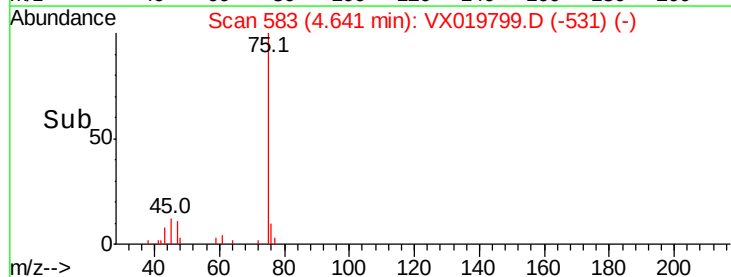
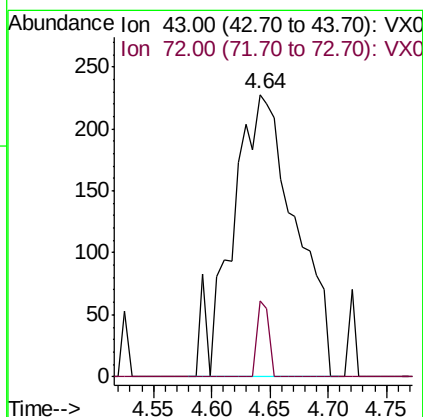
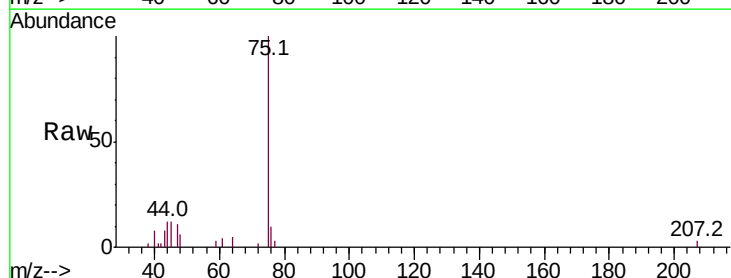
Instrument :
MSVOA_X
ClientSampleId :
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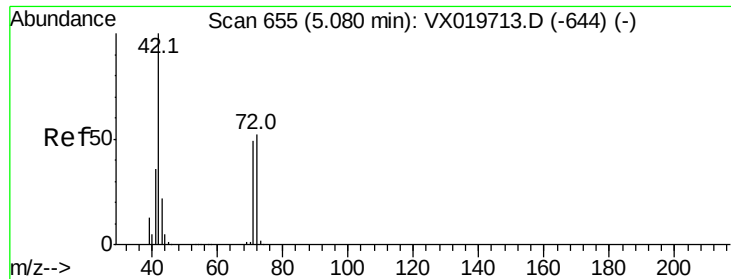
Tot Ion:	84	Resp:	1007
Ion	Ratio	Lower	Upper
84	100		
49	109.6	88.6	132.8
51	36.9	27.0	40.6
86	57.6	50.3	75.5



#25
2-Butanone
Concen: 0.337 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

Tgt Ion:	43	Resp:	859
Ion	Ratio	Lower	Upper
43	100		
72	26.8	23.7	35.5





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

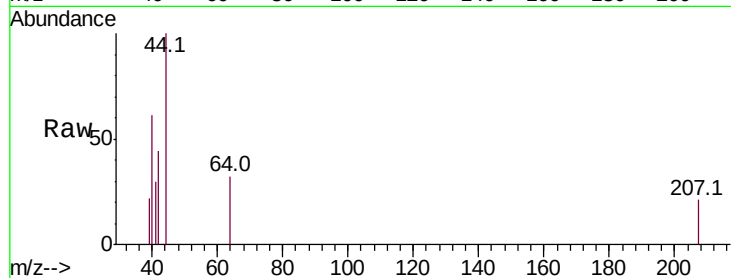
Tot Ion: 42 Resp: 514

Ion Ratio Lower Upper

42 100

72 9.7 41.7 62.5#

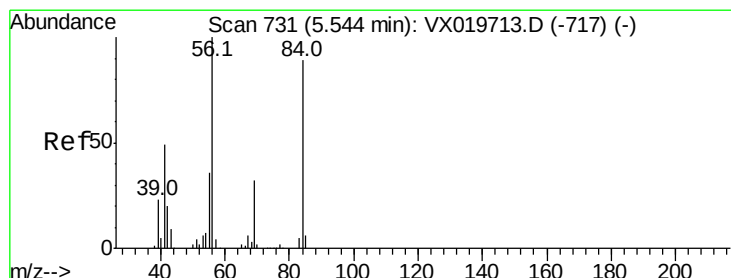
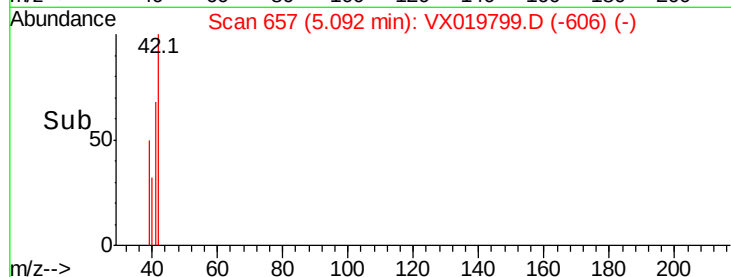
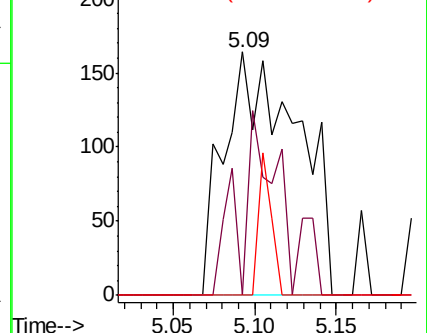
71 0.0 38.4 57.6#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.164 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

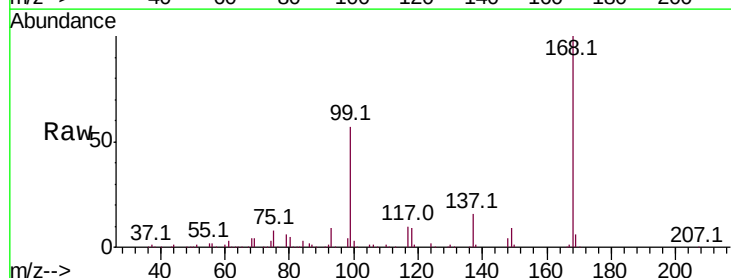
Tgt Ion: 56 Resp: 6394

Ion Ratio Lower Upper

56 100

69 196.6 25.3 37.9#

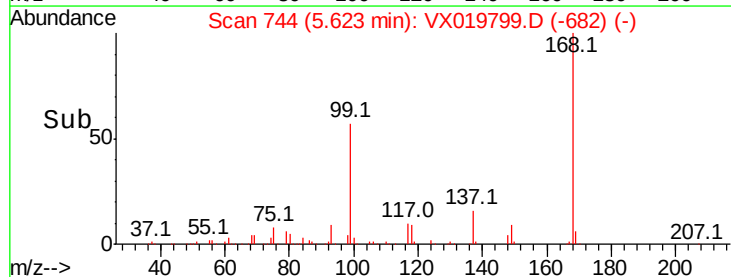
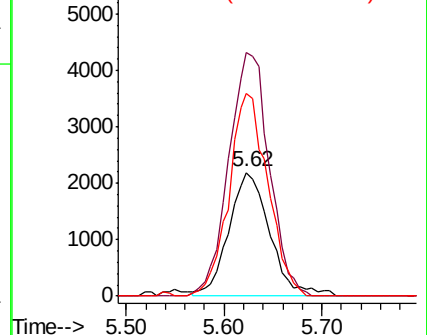
84 163.7 71.4 107.0#

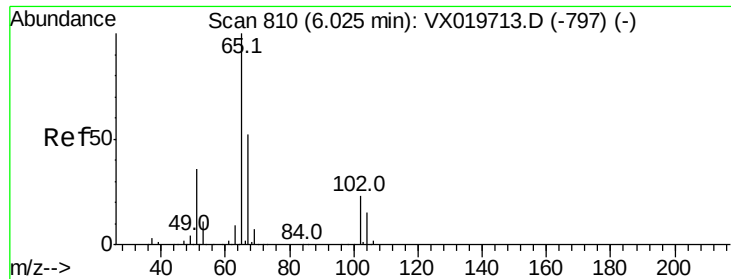


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

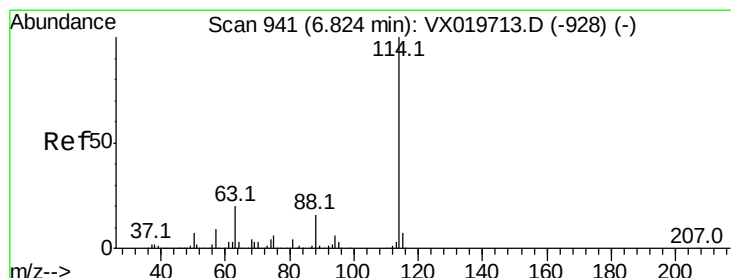
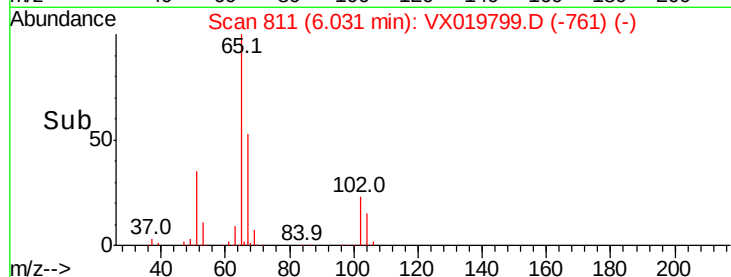
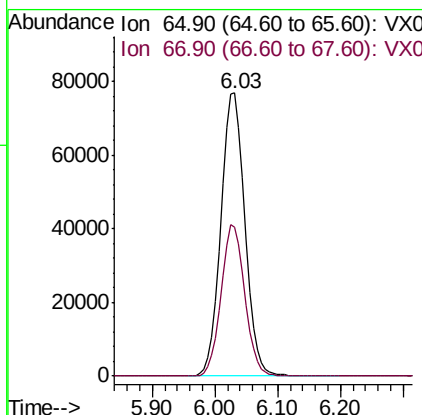
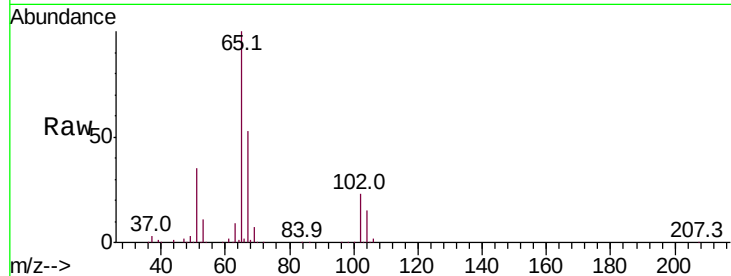




#33
 1,2-Dichloroethane-d4
 Concen: 46.214 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.01 min
 Lab File: VX019799.D
 Acq: 10 Dec 2020 00:42

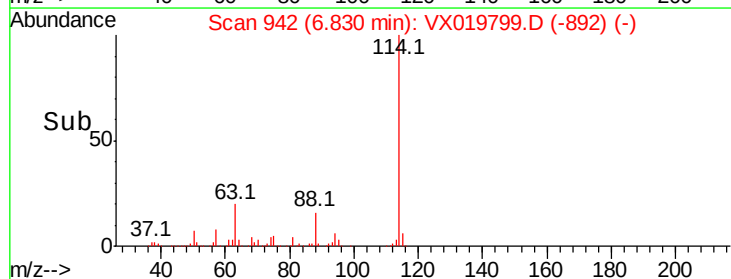
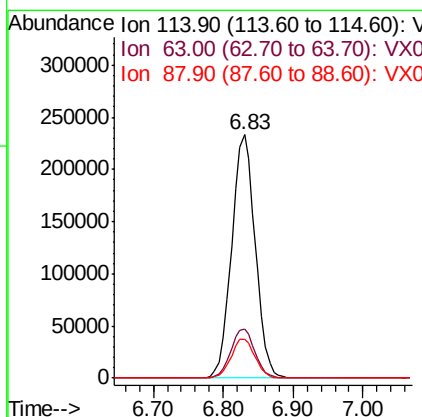
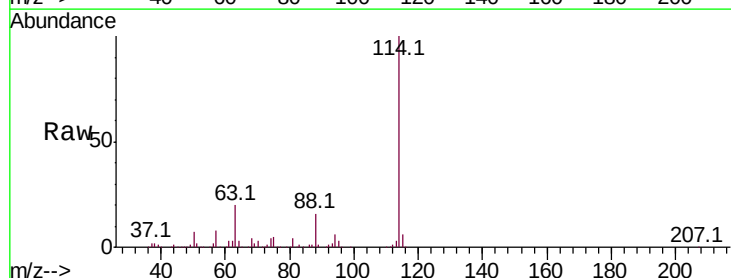
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

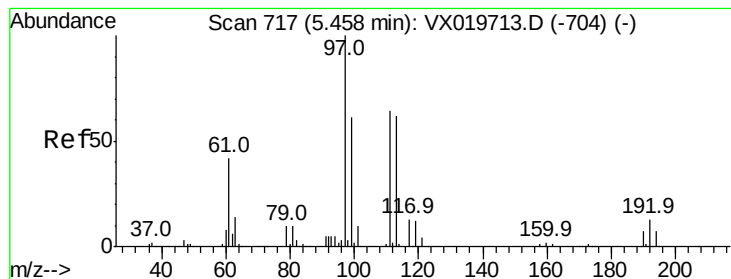
Tot Ion: 65 Resp: 204013
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019799.D
 Acq: 10 Dec 2020 00:42

Tgt Ion: 114 Resp: 545728
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.8
 88 16.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 46.915 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

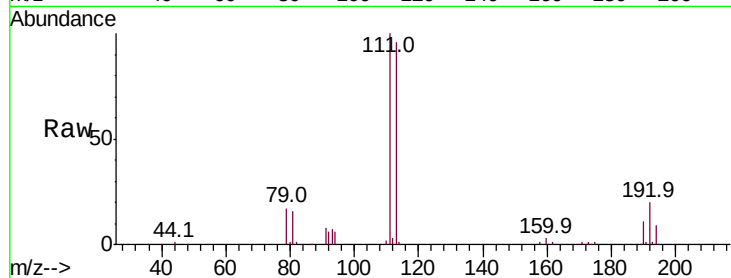
Tot Ion:113 Resp: 165468

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

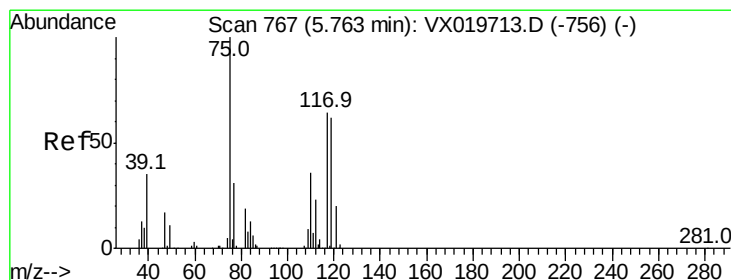
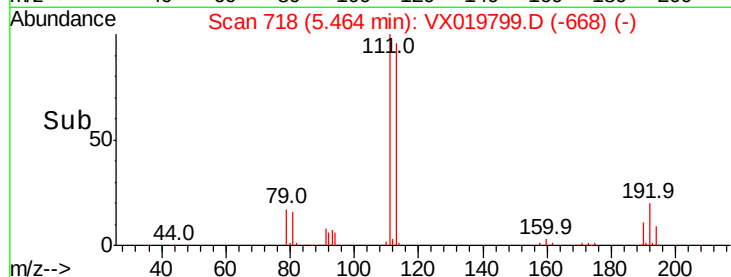
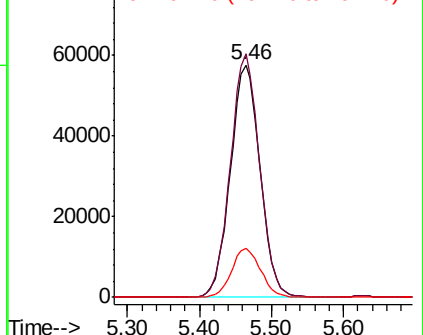
192 20.7 16.7 25.1



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: 5.092 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.14 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

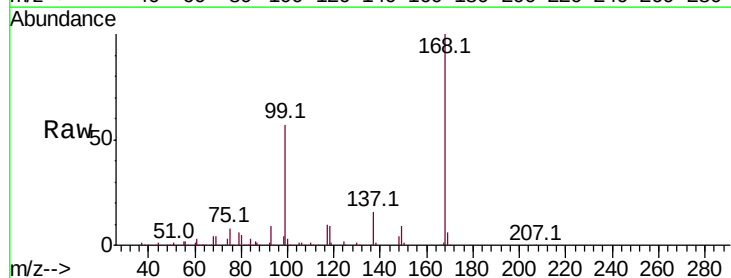
Tgt Ion: 75 Resp: 25109

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

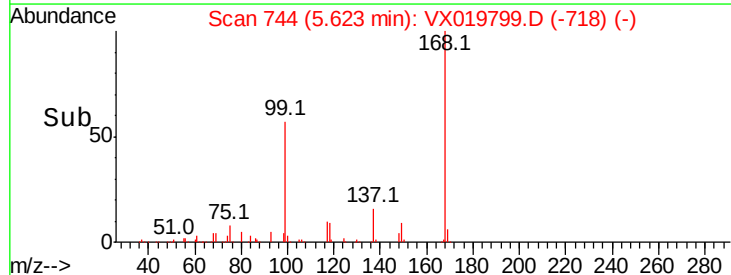
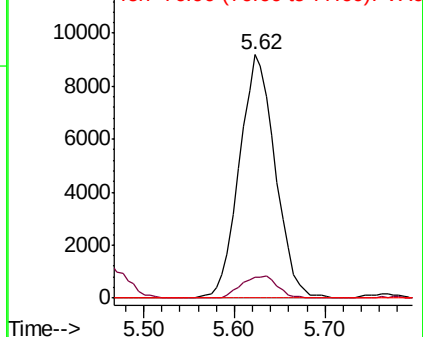
77 0.0 25.3 37.9#

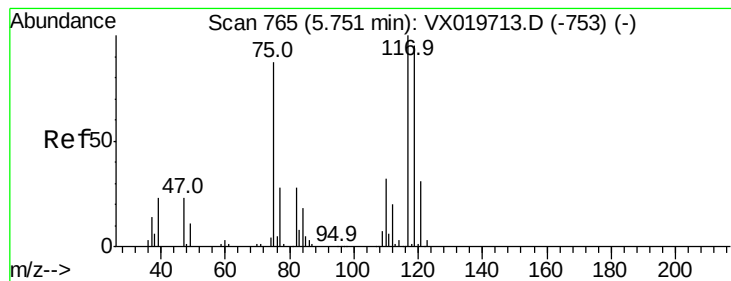


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.843 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

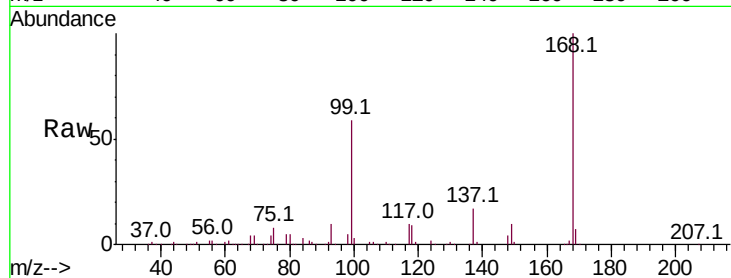
Tot Ion:117 Resp: 33045

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

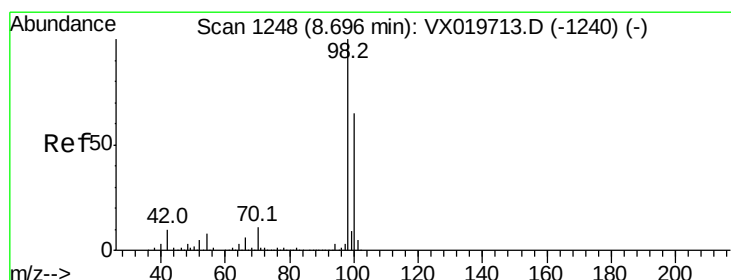
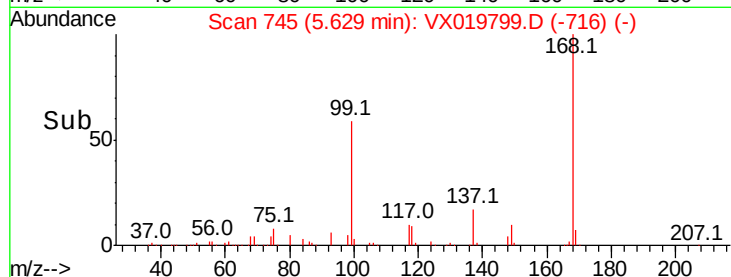
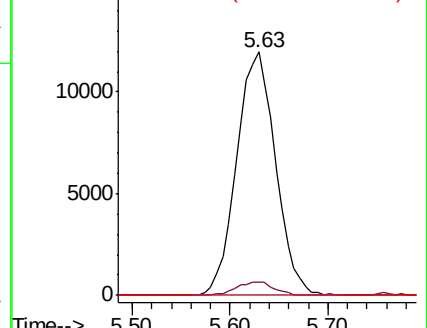
121 0.0 24.8 37.2#



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



#50

Toluene-d8

Concen: 48.699 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019799.D

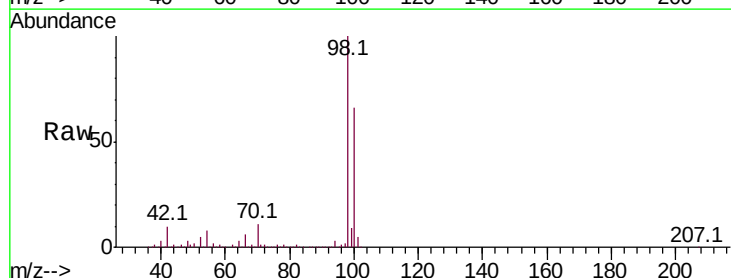
Acq: 10 Dec 2020 00:42

Tgt Ion: 98 Resp: 655736

Ion Ratio Lower Upper

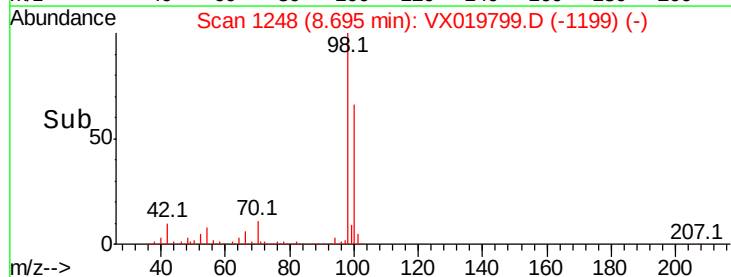
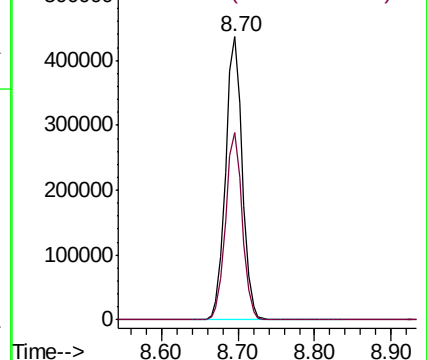
98 100

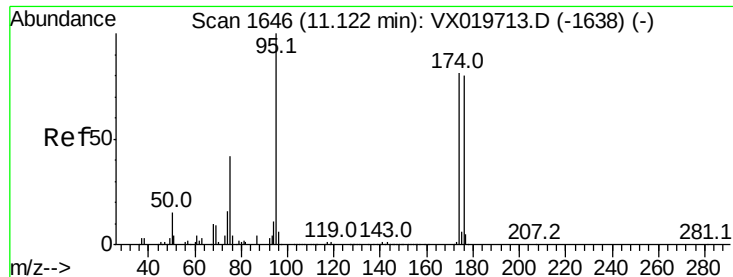
100 65.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.718 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

Instrument :

MSVOA_X

ClientSampleId :

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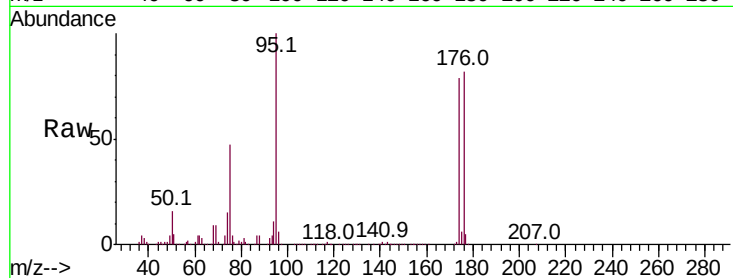
Tot Ion: 95 Resp: 229176

Ion Ratio Lower Upper

95 100

174 78.5 0.0 154.6

176 78.7 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)

11.12

200000

150000

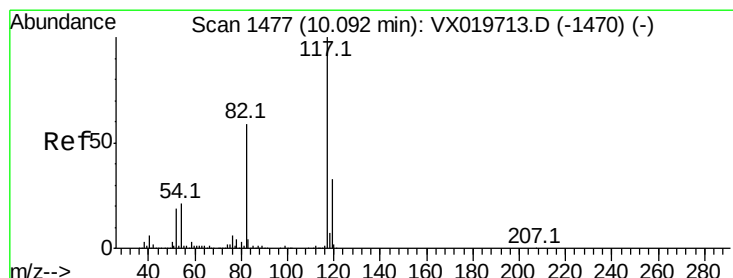
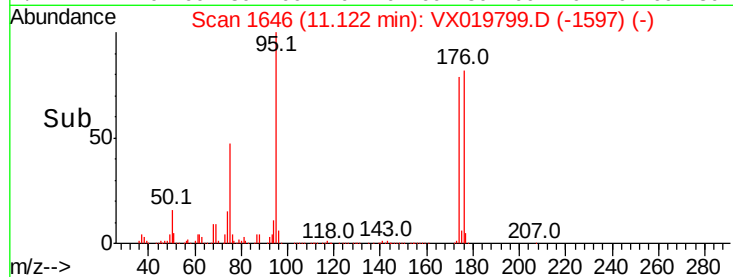
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019799.D

Acq: 10 Dec 2020 00:42

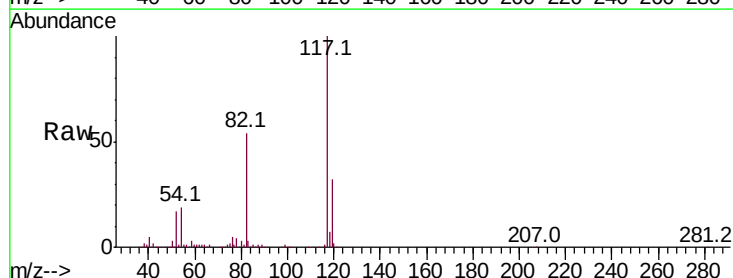
Tgt Ion: 117 Resp: 496264

Ion Ratio Lower Upper

117 100

82 54.2 47.4 71.2

119 32.2 26.6 39.8



Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

10.10

400000

300000

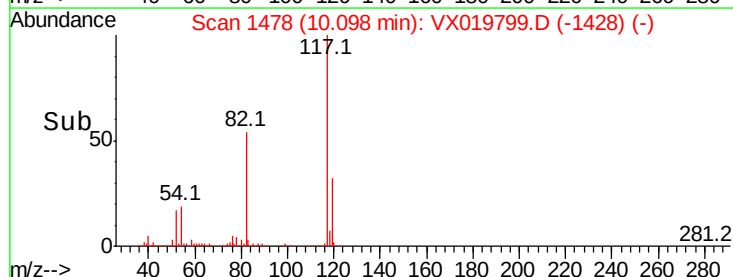
200000

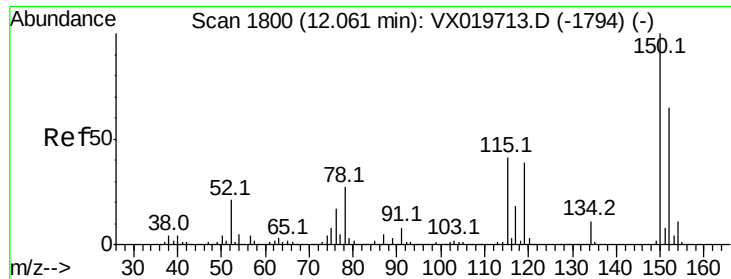
100000

0

10.00 10.10 10.20

Time-->

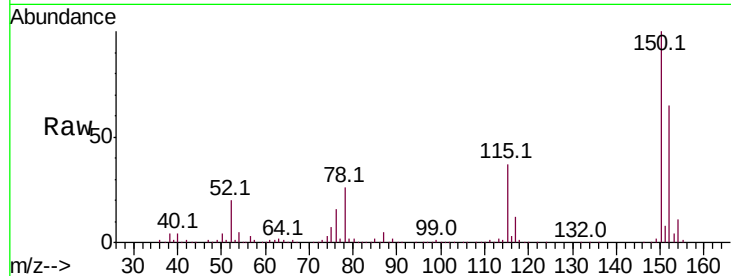




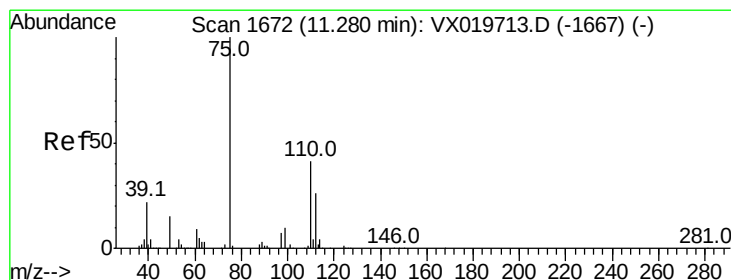
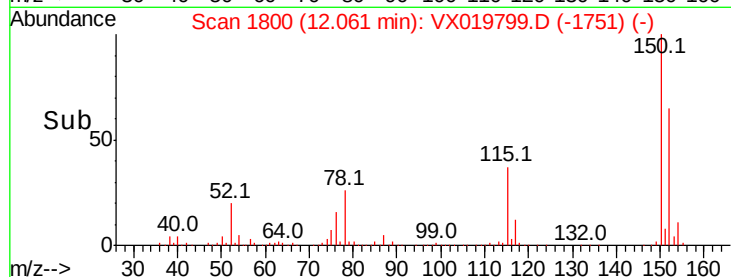
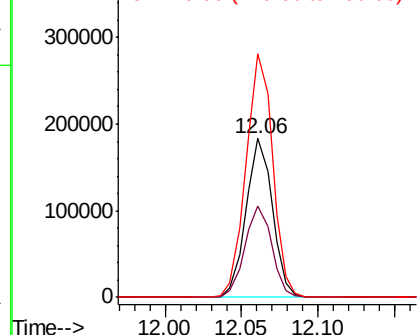
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.06 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VX019799.D
 Acq: 10 Dec 2020 00:42

Instrument :
 MSVOA_X
 ClientSampled :
 TRIP-BLANK

Tot Ion:152 Resp: 219624
 Ion Ratio Lower Upper
 152 100
 115 58.5 41.1 123.3
 150 155.2 0.0 349.0

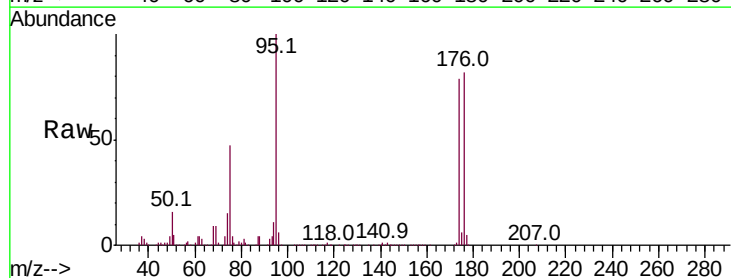


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

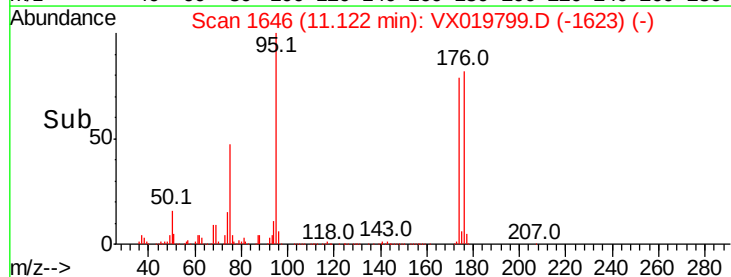
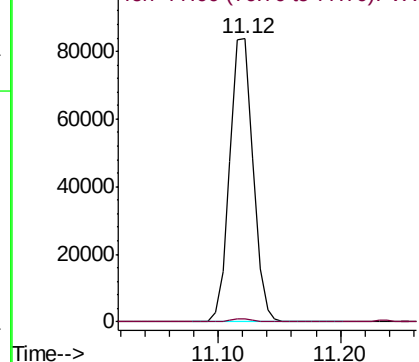


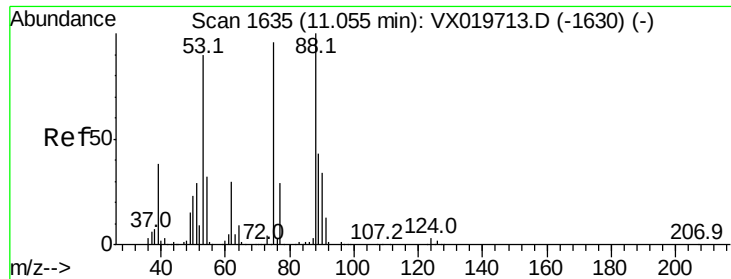
#76
 1,2,3-Trichloropropane
 Concen: 22.462 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX019799.D
 Acq: 10 Dec 2020 00:42

Tgt Ion: 75 Resp: 110641
 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

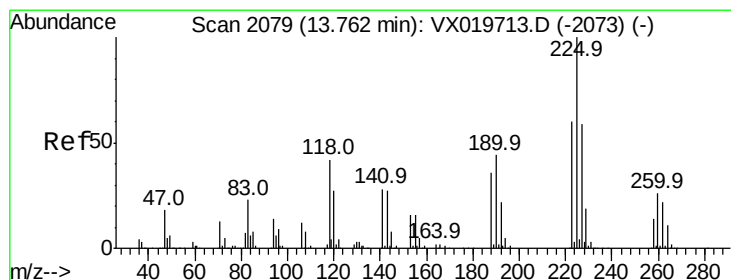
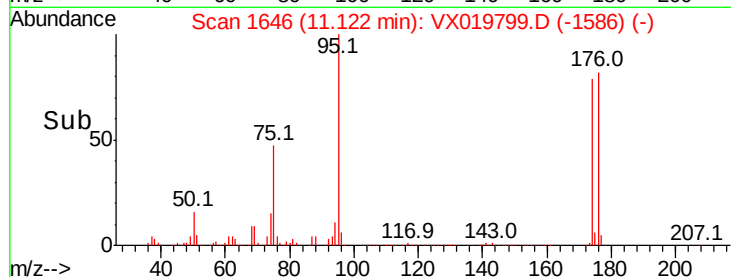
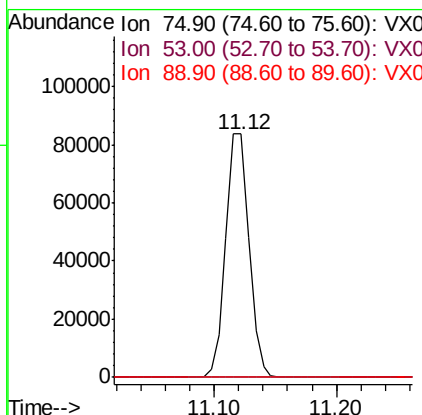
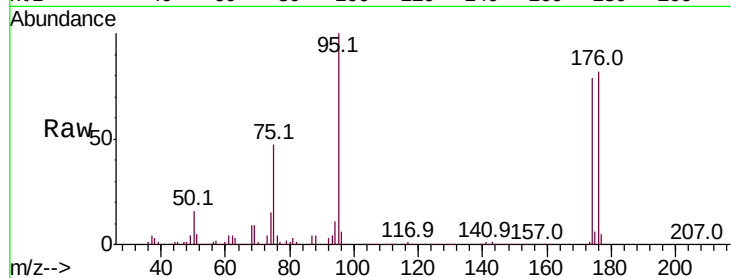




#81
trans-1,4-Dichloro-2-butene
Concen: 64.932 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

Instrument :
MSVOA_X
ClientSampled :
TRIP-BLANK

Tot Ion: 75 Resp: 110641
Ion Ratio Lower Upper
75 100
53 0.0 74.5 111.7#
89 0.0 37.9 56.9#



#94
Hexachlorobutadiene
Concen: 0.282 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.00 min
Lab File: VX019799.D
Acq: 10 Dec 2020 00:42

Tgt Ion: 225 Resp: 563
Ion Ratio Lower Upper
225 100
223 50.1 31.1 93.2
227 58.6 31.6 95.0

