

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042120\
 Data File : VX015816.D
 Acq On : 22 Apr 2020 00:34
 Operator : JC/SP
 Sample : PB128378TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128378TB

Quant Time: Apr 22 04:25:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	959980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1461182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1429699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	815579	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	529730	39.12	ug/l	0.00
Spiked Amount			Recovery	=	78.24%	
35) Dibromofluoromethane	5.48	113	418033	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	
50) Toluene-d8	8.70	98	1792236	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	757097	54.17	ug/l	0.00
Spiked Amount			Recovery	=	108.34%	

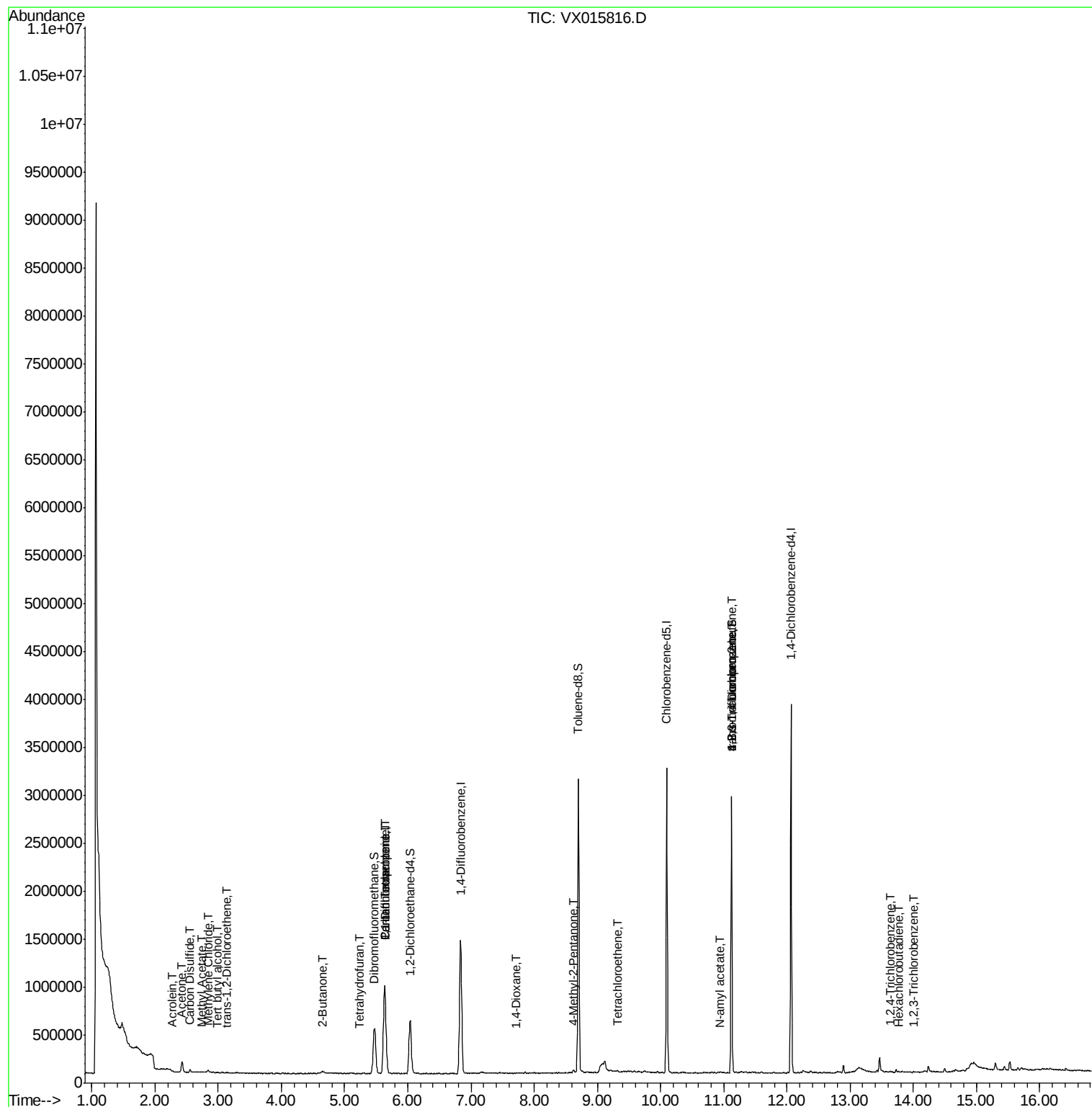
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	248	Below Cal	#	73
11) Tert butyl alcohol	3.00	59	1634	0.504	ug/l #	81
13) Acrolein	2.28	56	1730	0.937	ug/l #	14
16) Acetone	2.42	43	84933	14.601	ug/l	93
17) Carbon Disulfide	2.56	76	33342	1.206	ug/l	100
18) Methyl Acetate	2.75	43	5791	0.390	ug/l #	71
20) Methylene Chloride	2.84	84	10997	1.012	ug/l	86
21) trans-1,2-Dichloroethene	3.14	96	2289	0.228	ug/l #	29
25) 2-Butanone	4.65	43	25741	2.752	ug/l #	86
29) Tetrahydrofuran	5.24	42	1513	0.252	ug/l	99
36) 1,1-Dichloropropene	5.64	75	64688	4.805	ug/l #	53
38) Carbon Tetrachloride	5.64	117	86174	5.910	ug/l #	15
49) 1,4-Dioxane	7.72	88	3148	11.417	ug/l #	82
51) 4-Methyl-2-Pentanone	8.62	43	23571	1.405	ug/l #	84
64) Tetrachloroethene	9.32	164	2192	0.203	ug/l #	77
74) N-amyl acetate	10.93	43	6071	0.204	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	367027	21.884	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	367027	52.509	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	4475	0.227	ug/l	94
94) Hexachlorobutadiene	13.77	225	2245	0.239	ug/l	70
96) 1,2,3-Trichlorobenzene	14.00	180	3880	0.204	ug/l	89

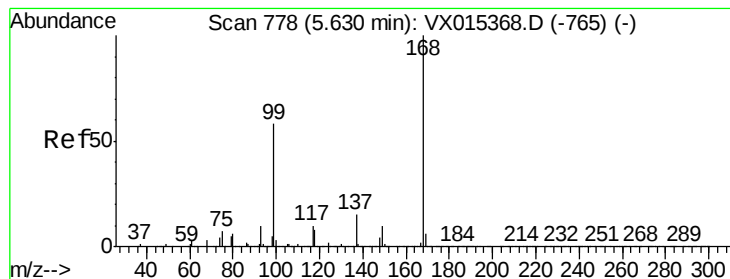
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

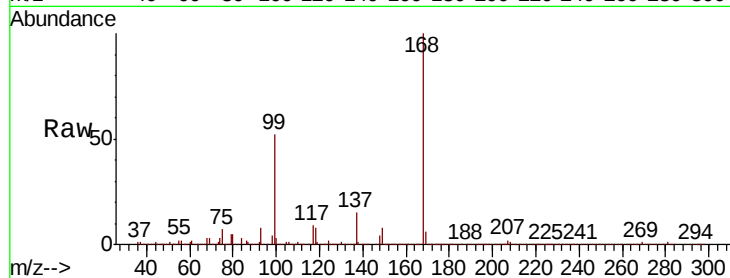
PB128378TB

Tot Ion:168 Resp: 959980

Ion Ratio Lower Upper

168 100

99 51.8 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

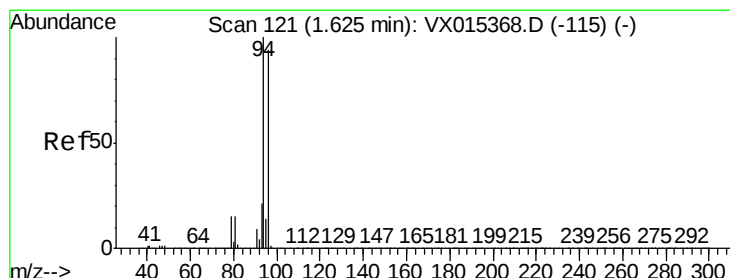
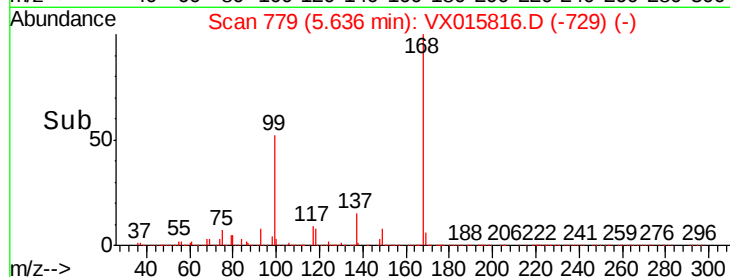
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015816.D

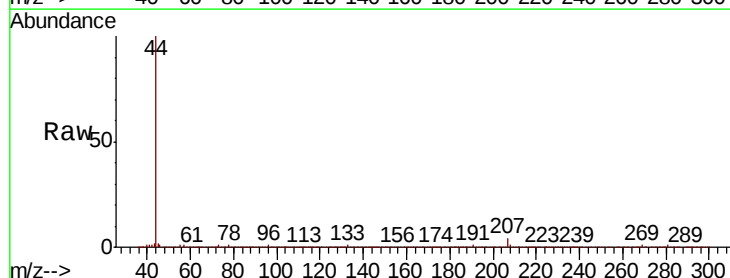
Acq: 22 Apr 2020 00:34

Tgt Ion: 94 Resp: 248

Ion Ratio Lower Upper

94 100

96 67.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

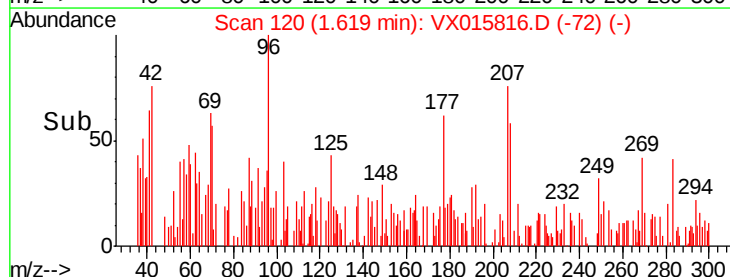
1500

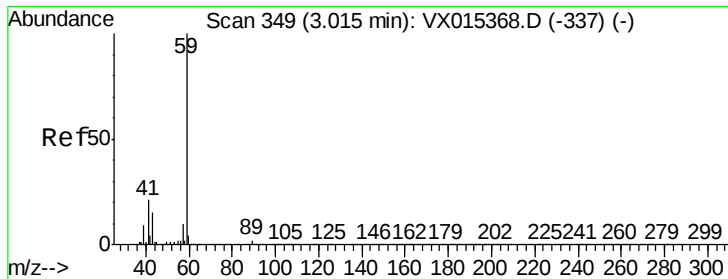
1000

500

0

Time-->

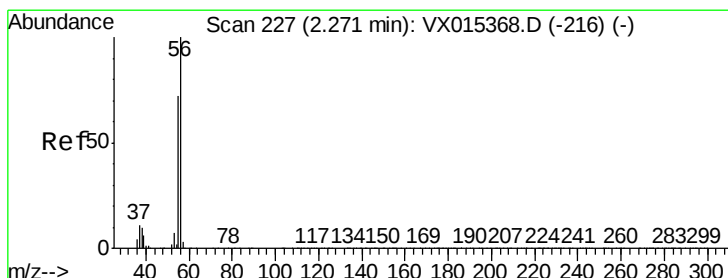
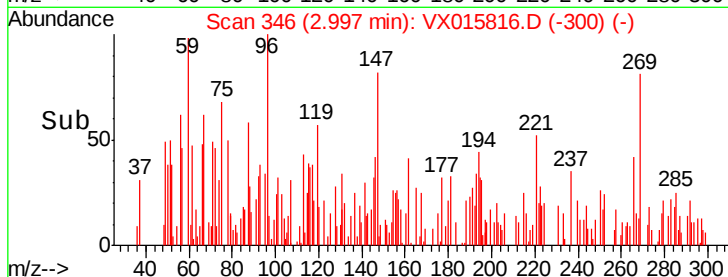
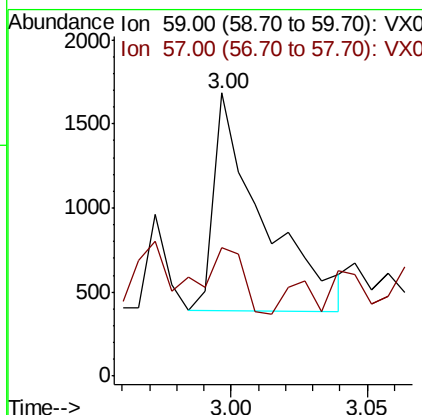
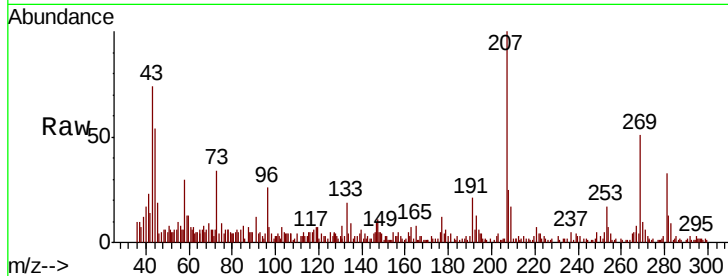




#11
Tert butyl alcohol
Concen: 0.504 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

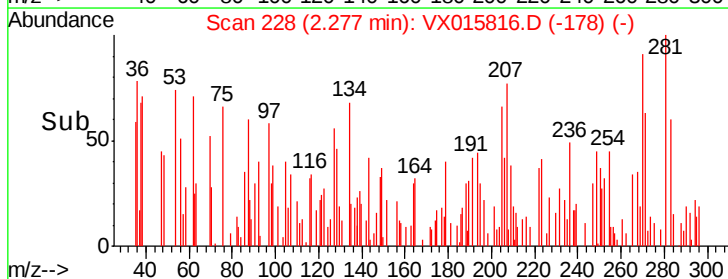
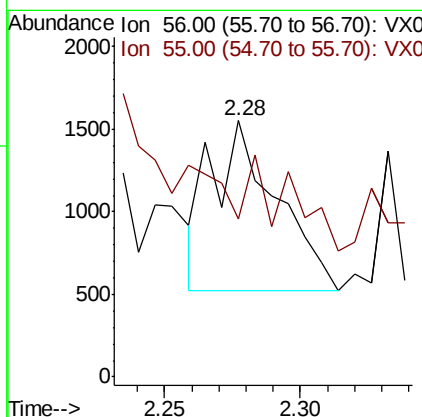
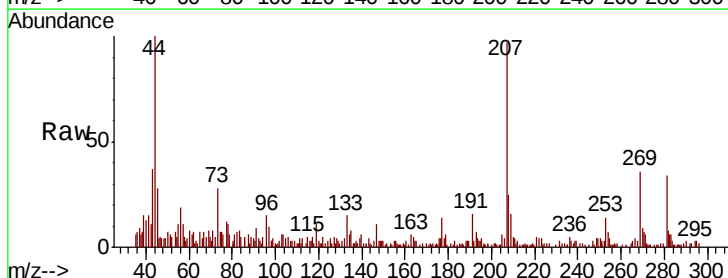
Instrument :
MSVOA_X
ClientSampled :
PB128378TB

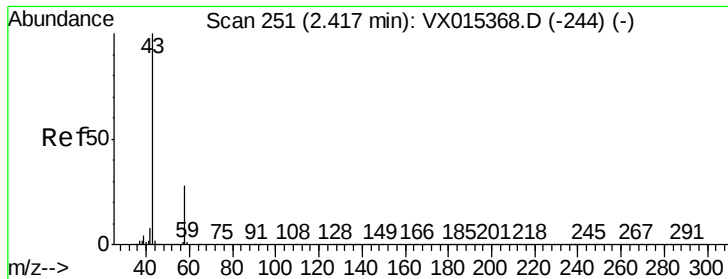
Tot Ion: 59 Resp: 1634
Ion Ratio Lower Upper
59 100
57 17.2 8.1 12.1#



#13
Acrolein
Concen: 0.937 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

Tgt Ion: 56 Resp: 1730
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 14.601 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampled :

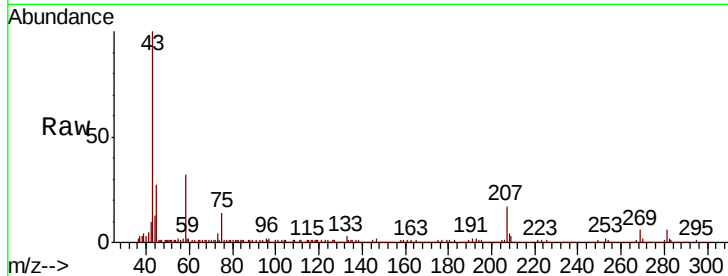
PB128378TB

Tot Ion: 43 Resp: 84933

Ion Ratio Lower Upper

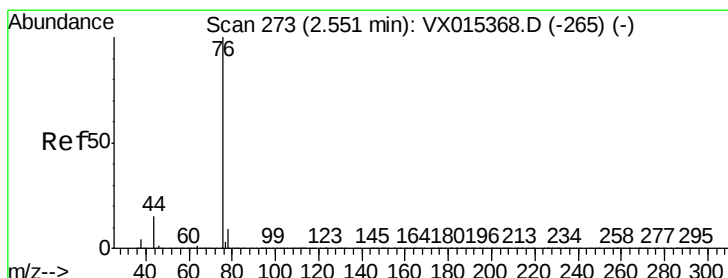
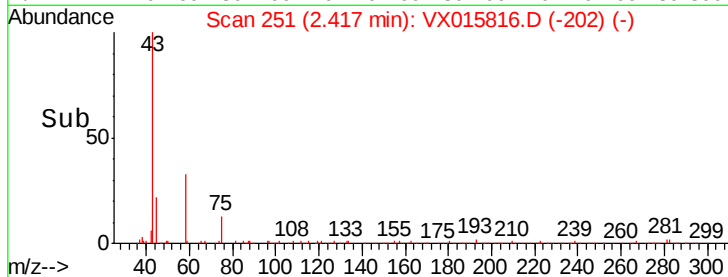
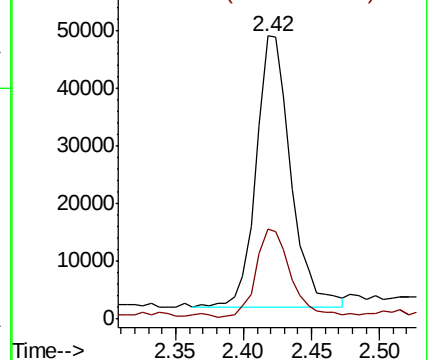
43 100

58 31.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.206 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015816.D

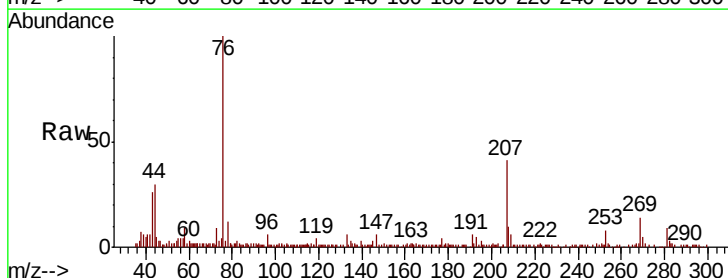
Acq: 22 Apr 2020 00:34

Tgt Ion: 76 Resp: 33342

Ion Ratio Lower Upper

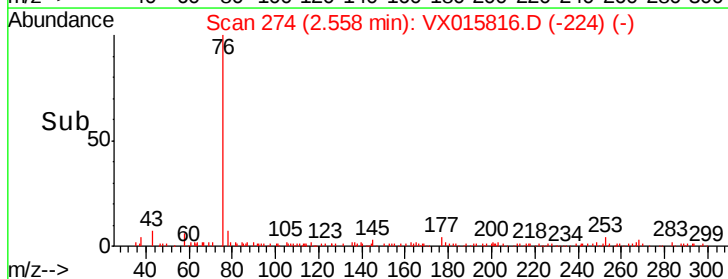
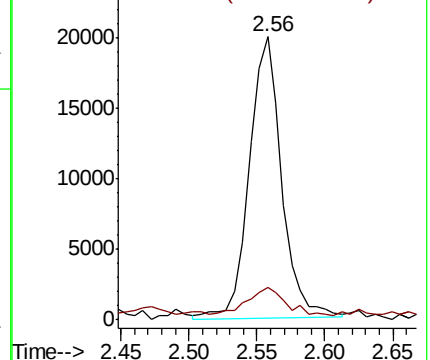
76 100

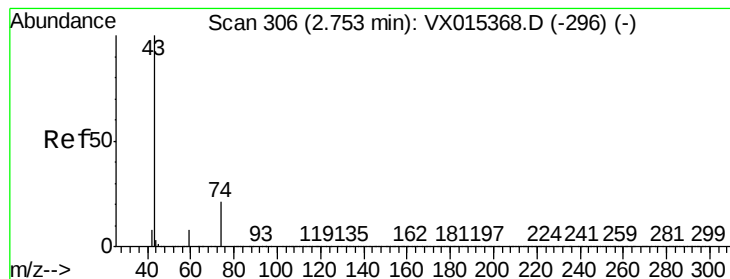
78 9.0 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#18

Methyl Acetate

Concen: 0.390 ug/l

RT: 2.75 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

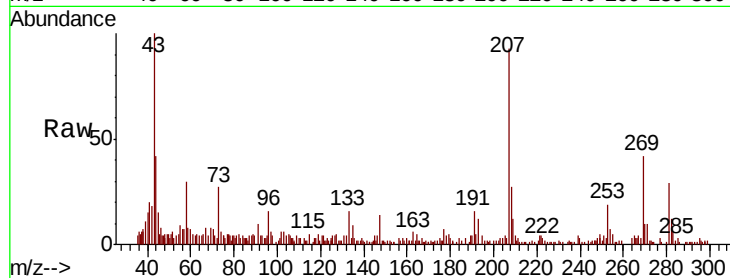
PB128378TB

Tot Ion: 43 Resp: 5791

Ion Ratio Lower Upper

43 100

74 33.9 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

8000

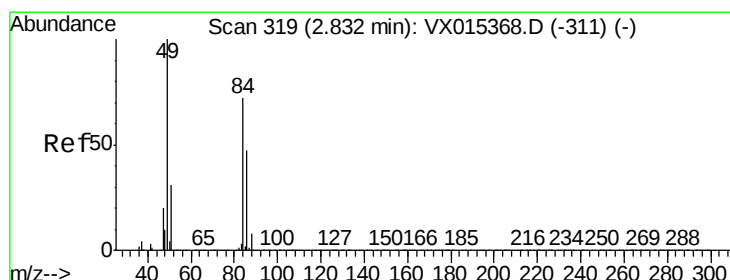
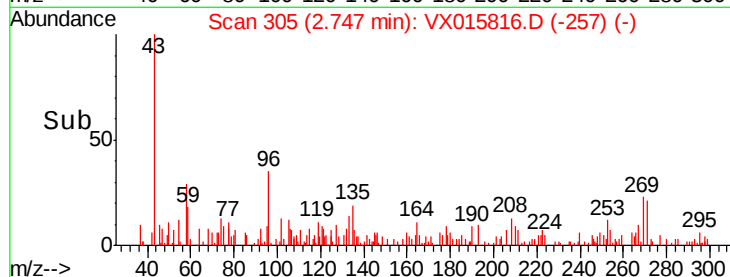
6000

4000

2000

0

Time--> 2.70 2.75 2.80



#20

Methylene Chloride

Concen: 1.012 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.01 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Tgt Ion: 84 Resp: 10997

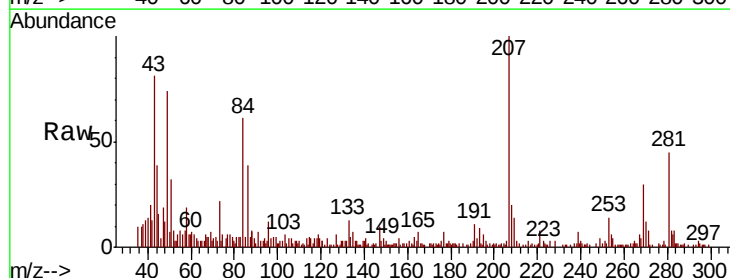
Ion Ratio Lower Upper

84 100

49 115.8 111.3 166.9

51 45.0 34.0 51.0

86 58.5 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

8000

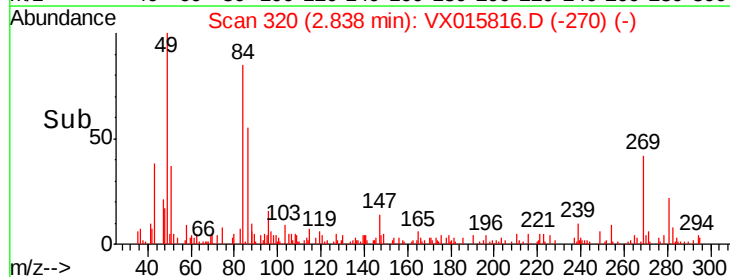
6000

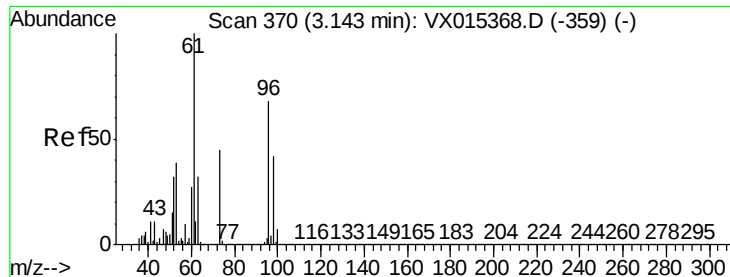
4000

2000

0

Time--> 2.75 2.80 2.85 2.90





#21

trans-1,2-Dichloroethene

Concen: 0.228 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

PB128378TB

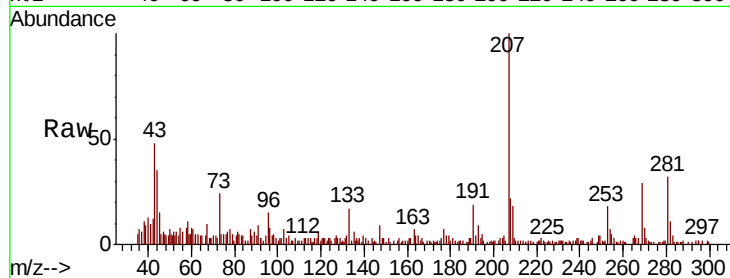
Tot Ion: 96 Resp: 2289

Ion Ratio Lower Upper

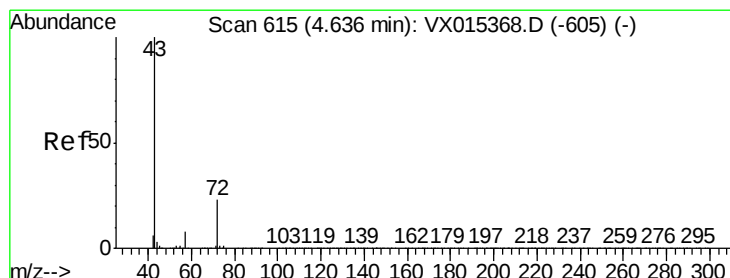
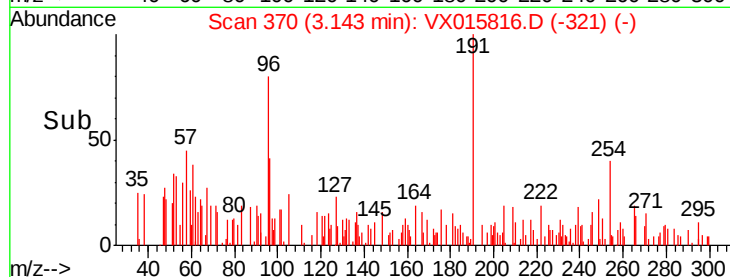
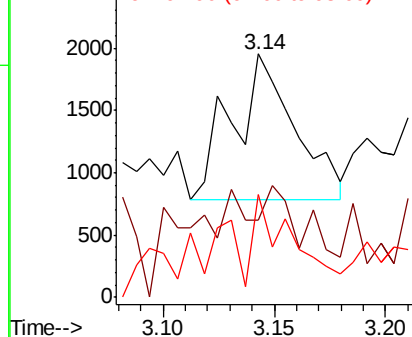
96 100

61 25.1 116.9 175.3#

98 53.7 48.6 73.0



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



#25

2-Butanone

Concen: 2.752 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015816.D

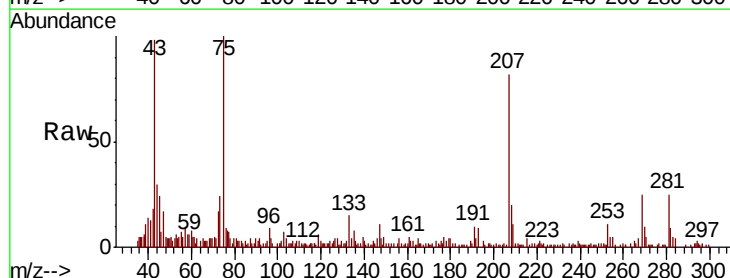
Acq: 22 Apr 2020 00:34

Tgt Ion: 43 Resp: 25741

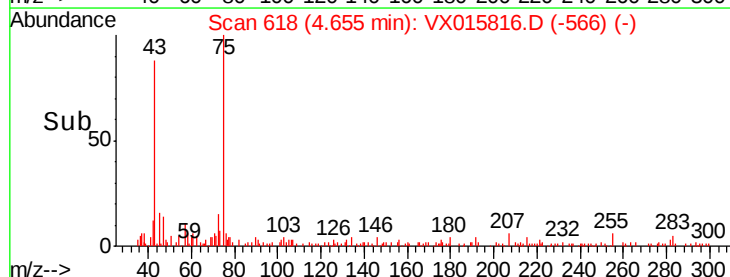
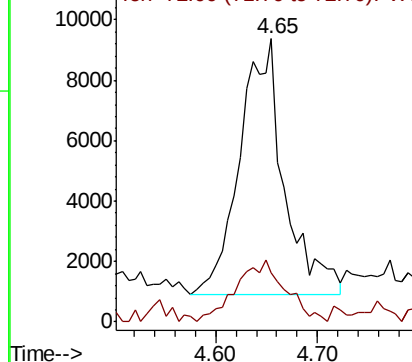
Ion Ratio Lower Upper

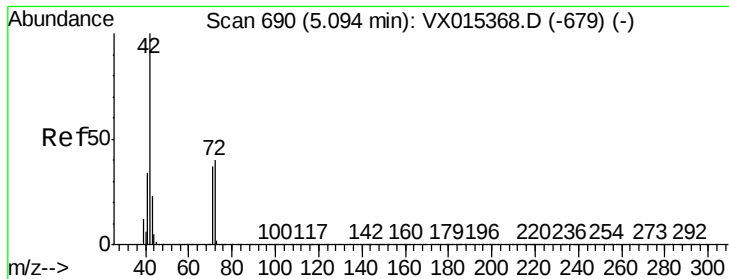
43 100

72 16.9 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.252 ug/l

RT: 5.24 min Scan# 714

Delta R.T. 0.15 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

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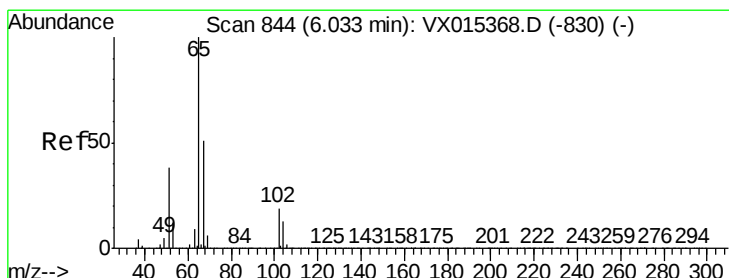
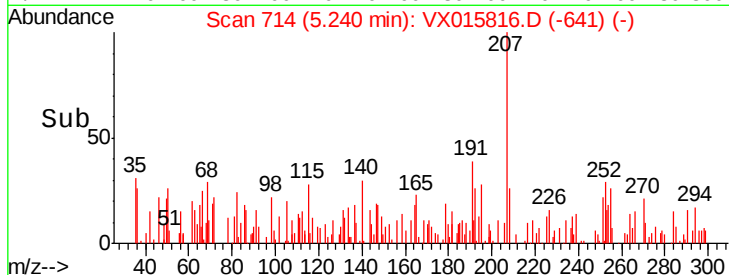
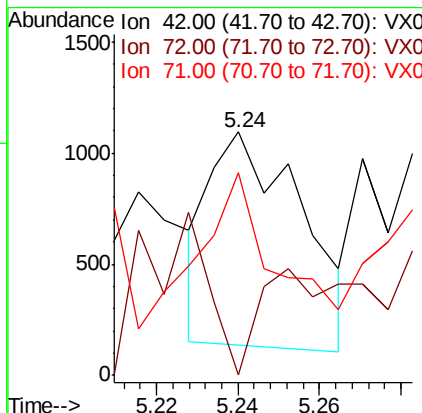
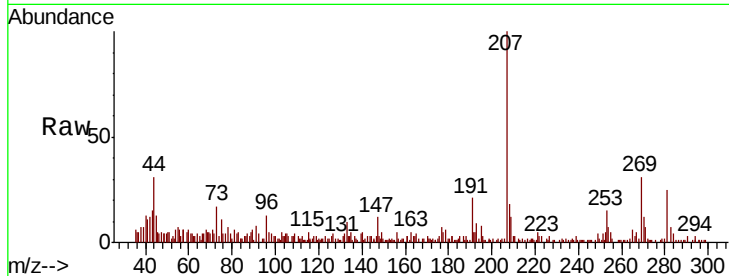
Tot Ion: 42 Resp: 1513

Ion Ratio Lower Upper

42 100

72 39.6 31.7 47.5

71 38.7 29.6 44.4



#33

1,2-Dichloroethane-d4

Concen: 39.125 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015816.D

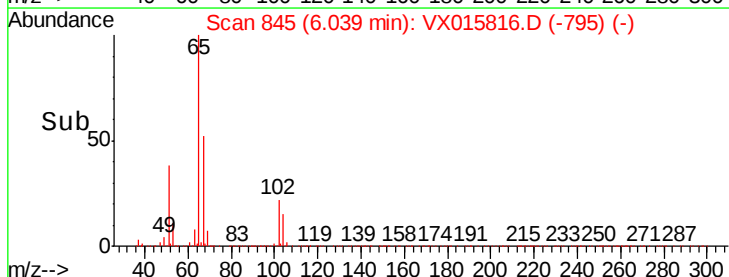
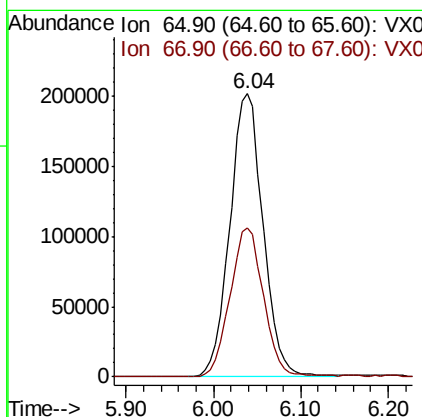
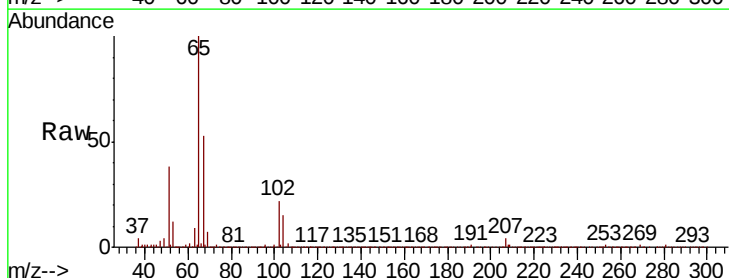
Acq: 22 Apr 2020 00:34

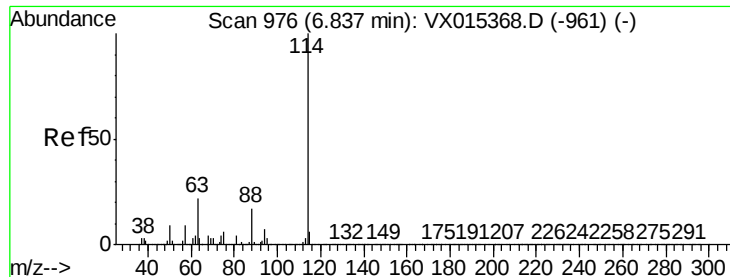
Tgt Ion: 65 Resp: 529730

Ion Ratio Lower Upper

65 100

67 53.4 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

PB128378TB

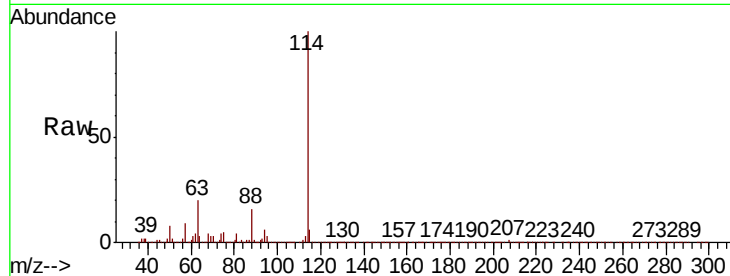
Tot Ion:114 Resp: 1461182

Ion Ratio Lower Upper

114 100

63 20.2 0.0 44.2

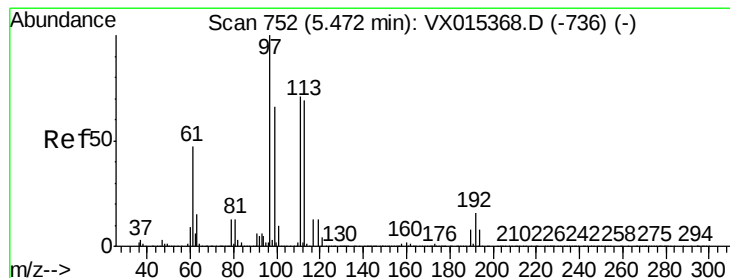
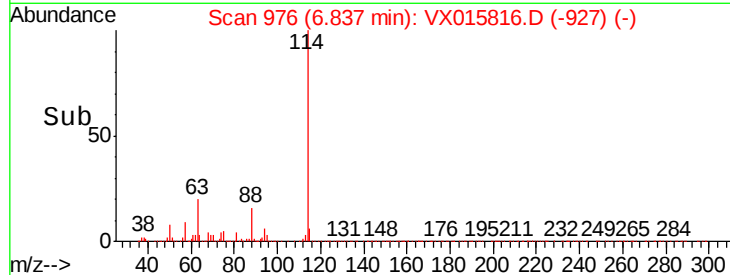
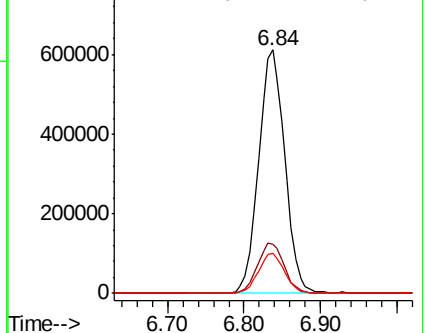
88 16.3 0.0 33.8



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: 44.756 ug/l

RT: 5.48 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

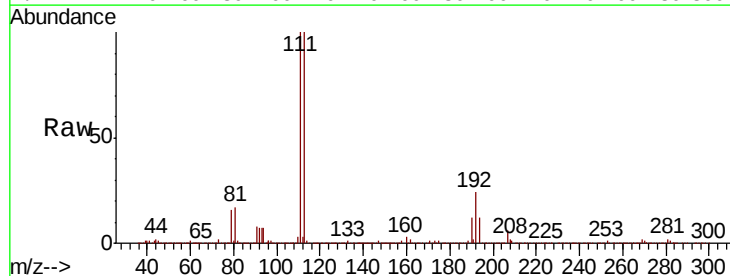
Tgt Ion:113 Resp: 418033

Ion Ratio Lower Upper

113 100

111 100.3 81.5 122.3

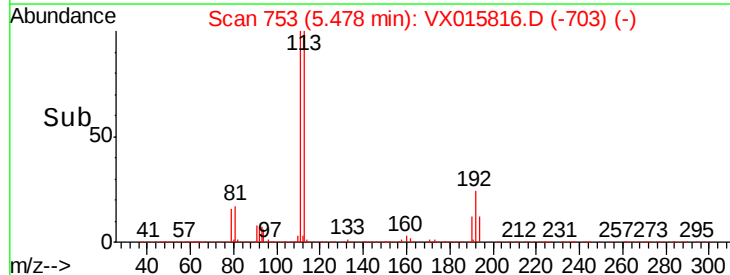
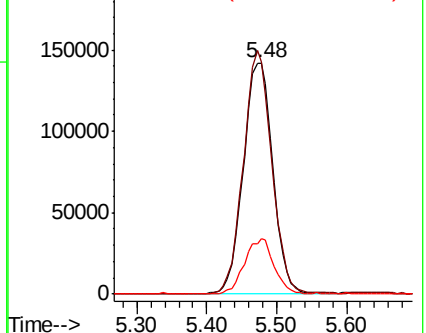
192 23.2 17.8 26.6

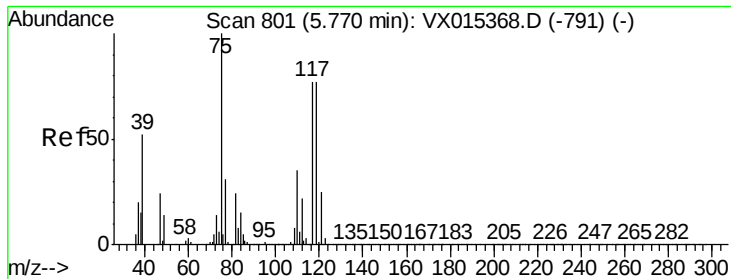


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

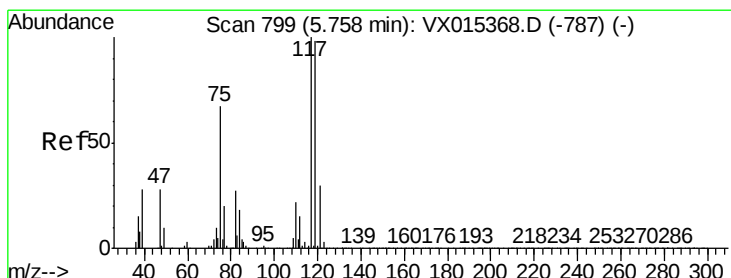
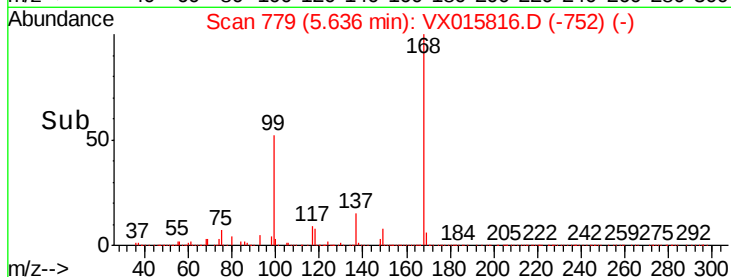
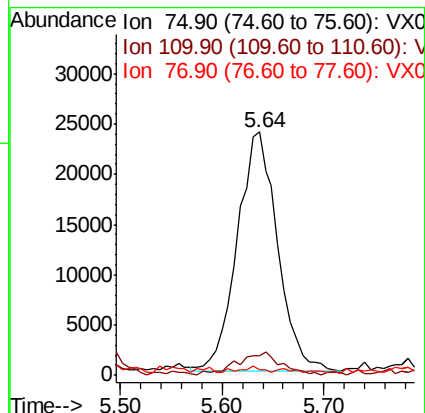
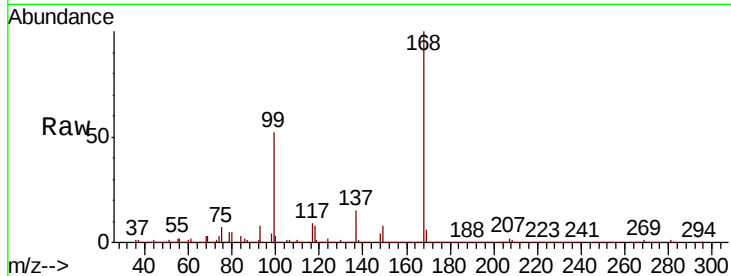




#36
 1,1-Dichloropropene
 Concen: 4.805 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015816.D
 Acq: 22 Apr 2020 00:34

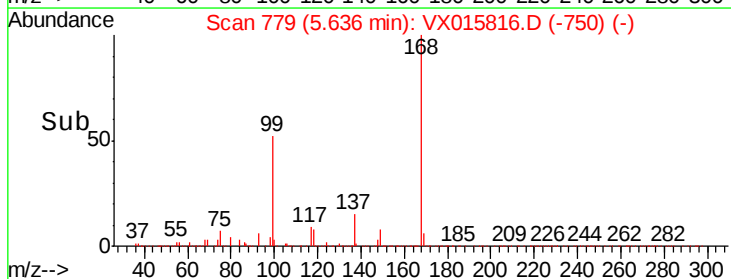
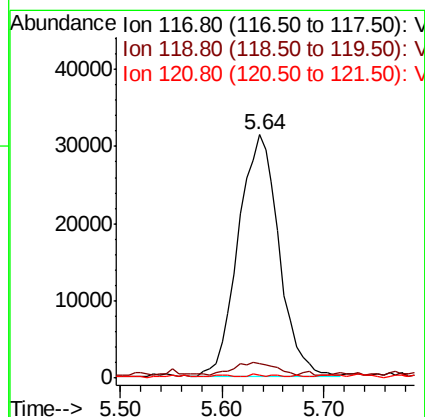
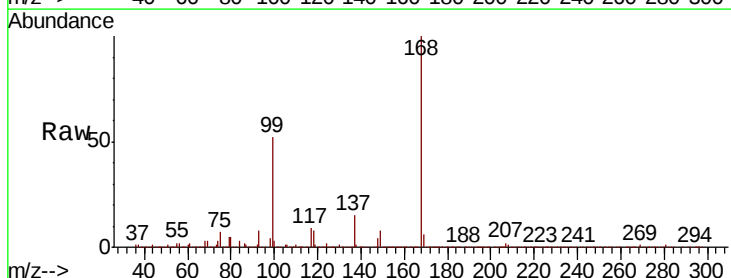
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128378TB

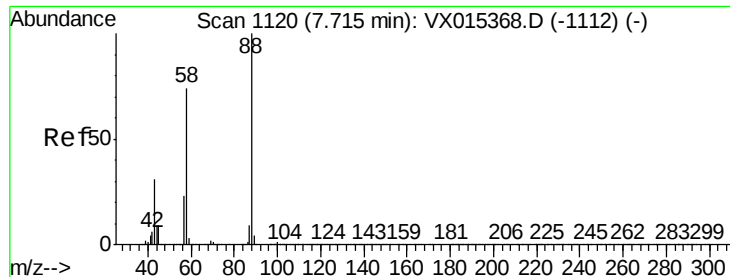
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	17.1	51.3#
77	0.9	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.910 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.12 min
 Lab File: VX015816.D
 Acq: 22 Apr 2020 00:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	78.0	117.0#
121	0.4	23.8	35.8#

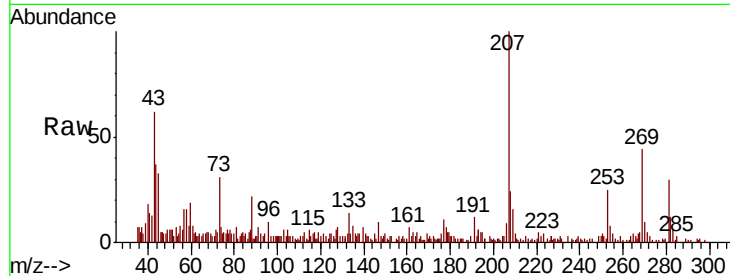




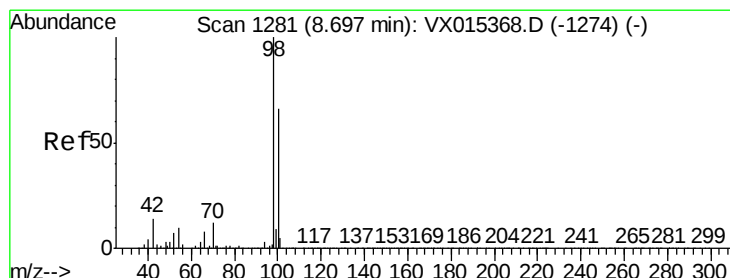
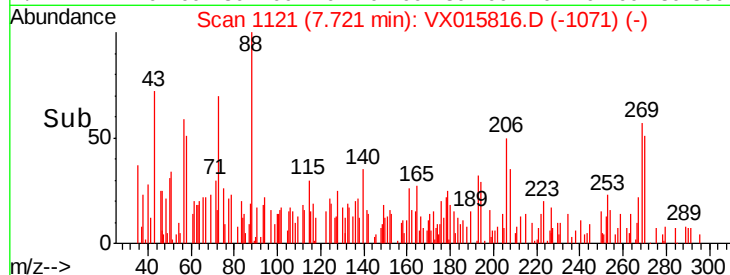
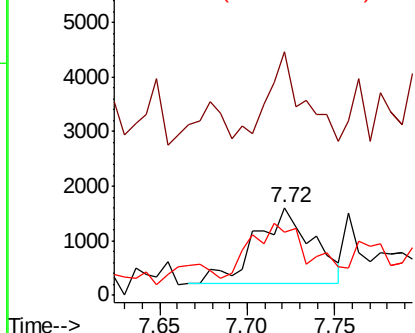
#49
1,4-Dioxane
Concen: 11.417 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

Instrument :
MSVOA_X
ClientSampleId :
PB128378TB

Tot Ion: 88 Resp: 3148
Ion Ratio Lower Upper
88 100
43 66.6 30.1 45.1#
58 72.6 60.6 90.8

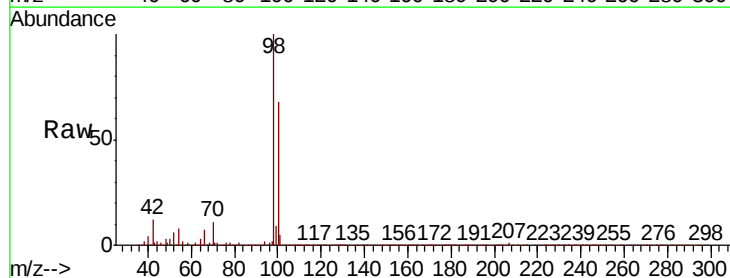


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

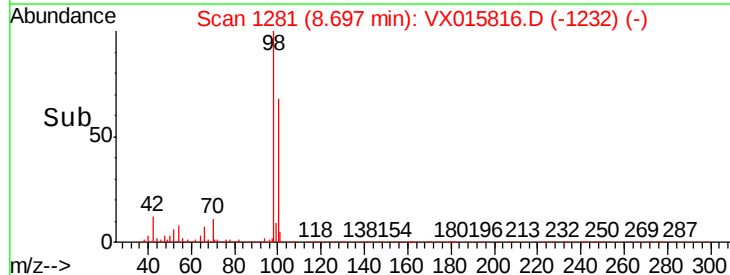
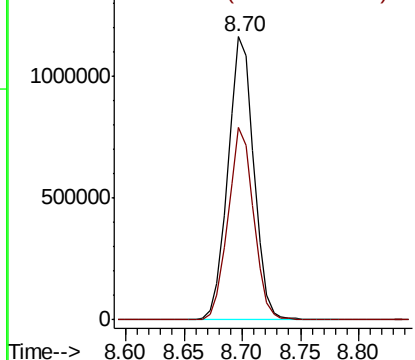


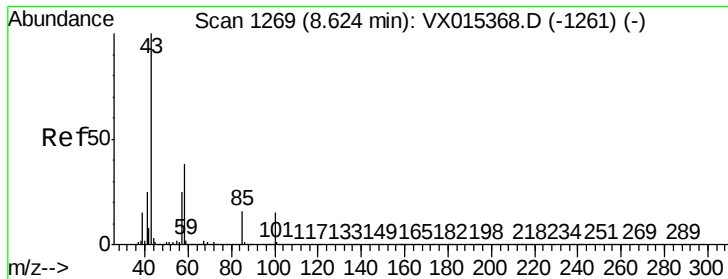
#50
Toluene-d8
Concen: 52.117 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

Tgt Ion: 98 Resp: 1792236
Ion Ratio Lower Upper
98 100
100 67.2 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 1.405 ug/l

RT: 8.62 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

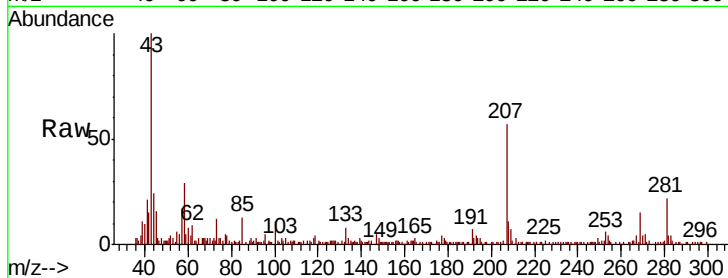
PB128378TB

Tot Ion: 43 Resp: 23571

Ion Ratio Lower Upper

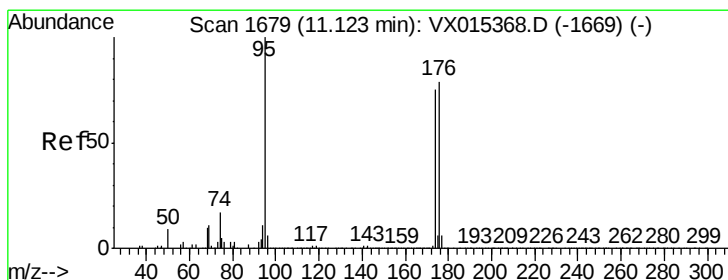
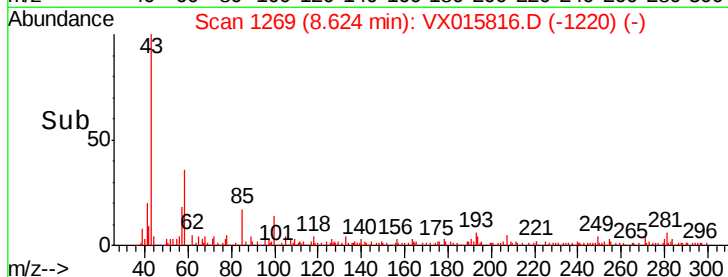
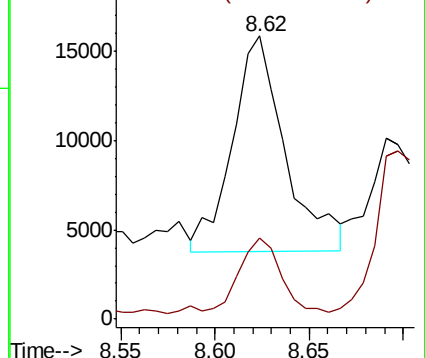
43 100

58 27.8 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 54.173 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

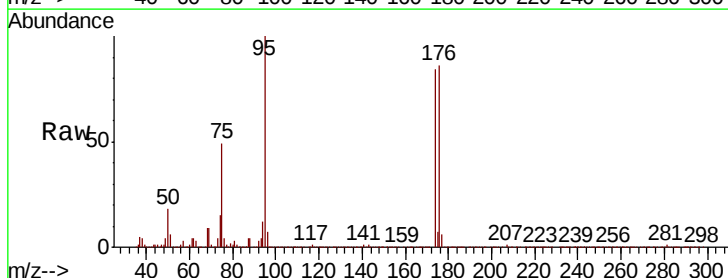
Tgt Ion: 95 Resp: 757097

Ion Ratio Lower Upper

95 100

174 85.5 0.0 158.6

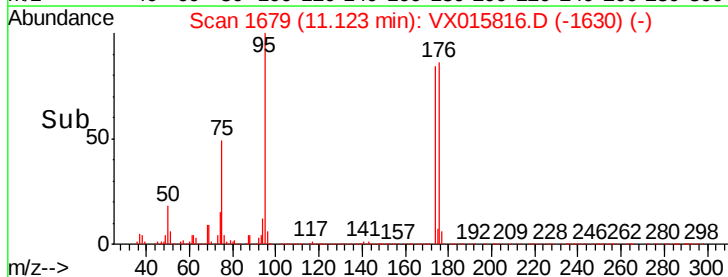
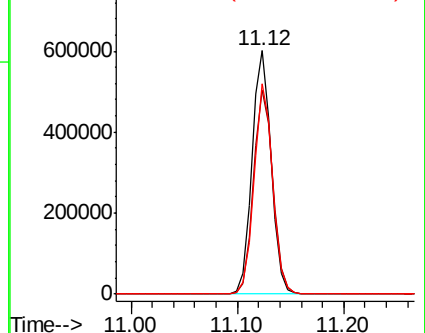
176 84.0 0.0 159.0

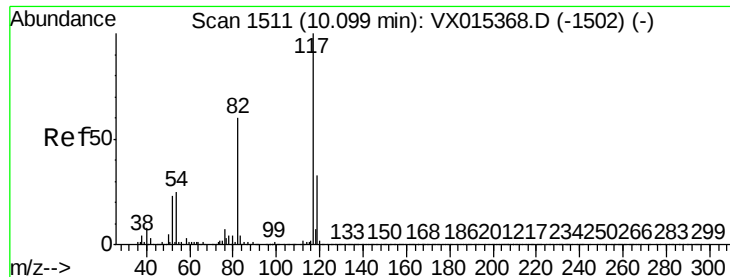


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

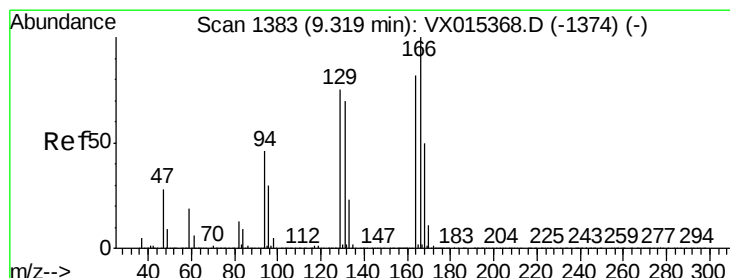
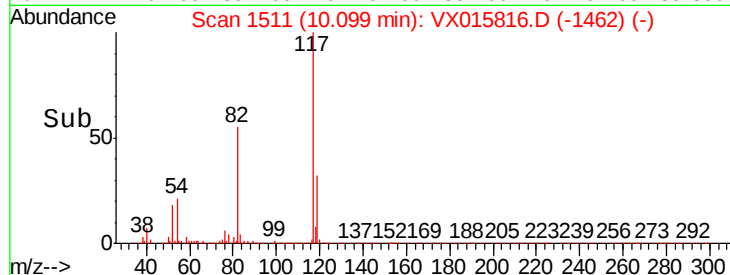
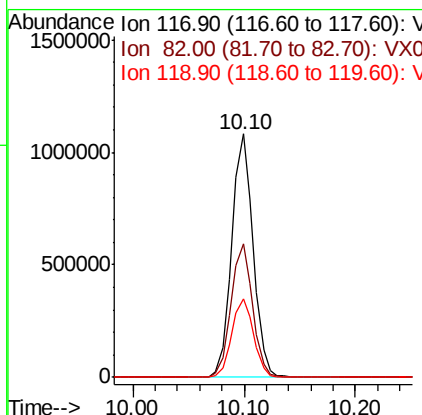
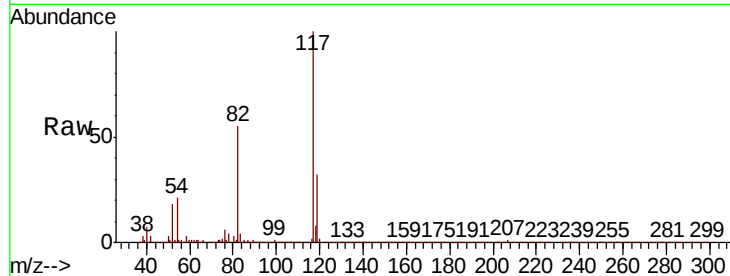




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

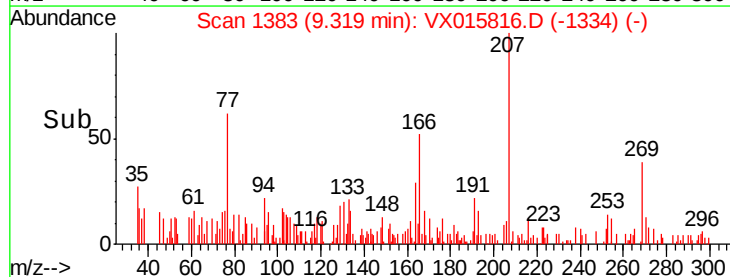
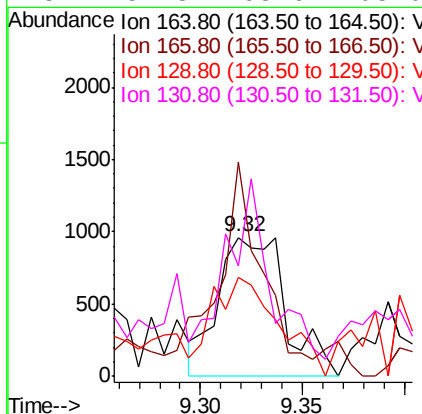
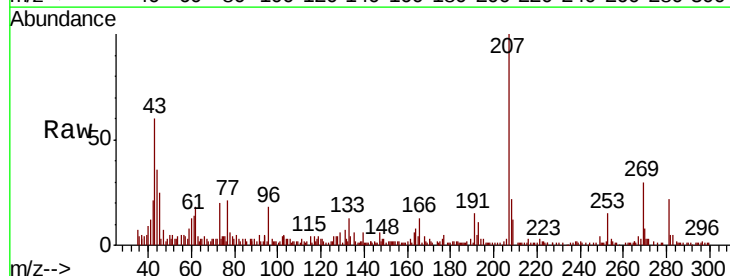
Instrument :
MSVOA_X
ClientSampled :
PB128378TB

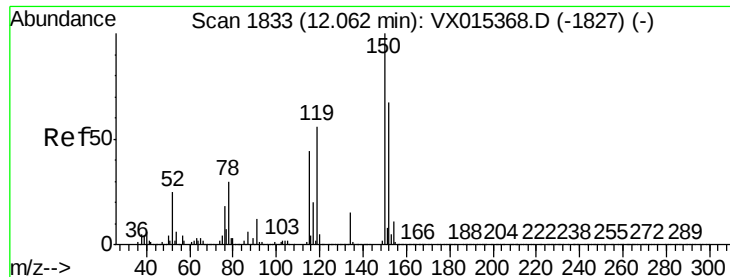
Tot Ion:117 Resp: 1429699
Ion Ratio Lower Upper
117 100
82 55.1 47.8 71.8
119 32.0 26.8 40.2



#64
Tetrachloroethene
Concen: 0.203 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX015816.D
Acq: 22 Apr 2020 00:34

Tgt Ion:164 Resp: 2192
Ion Ratio Lower Upper
164 100
166 129.1 97.8 146.6
129 58.1 73.0 109.4#
131 54.8 68.6 103.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

PB128378TB

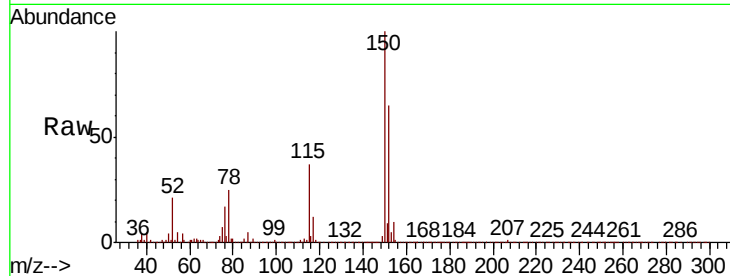
Tot Ion:152 Resp: 815579

Ion Ratio Lower Upper

152 100

115 56.4 39.0 116.9

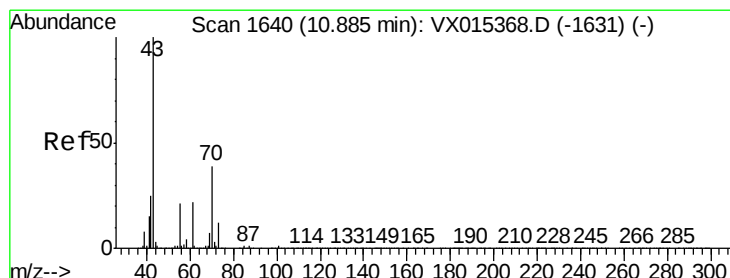
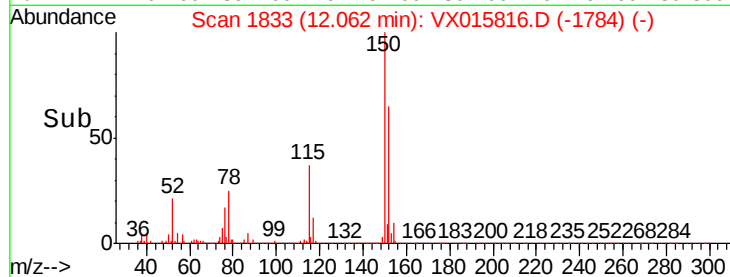
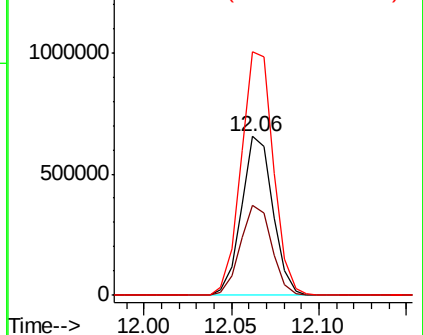
150 157.2 0.0 340.8



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



#74

N-ethyl acetate

Concen: 0.204 ug/l

RT: 10.93 min Scan# 1648

Delta R.T. 0.05 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Tgt Ion: 43 Resp: 6071

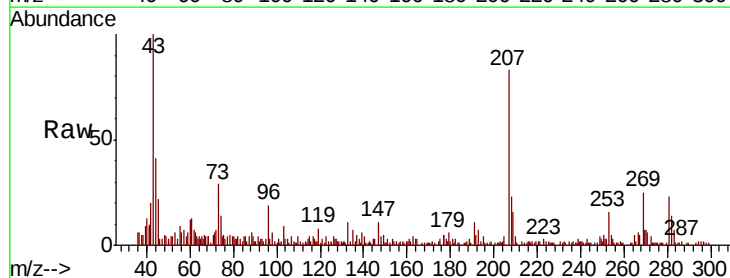
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 0.0 16.8 25.2#

61 0.0 18.2 27.2#

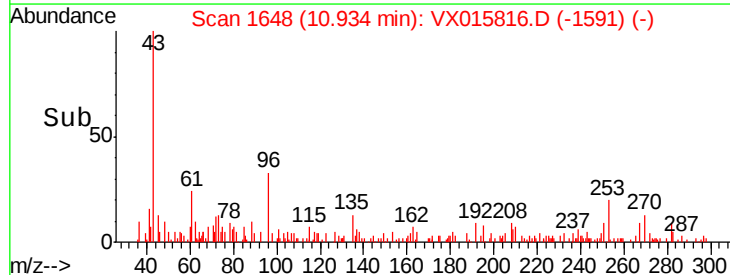
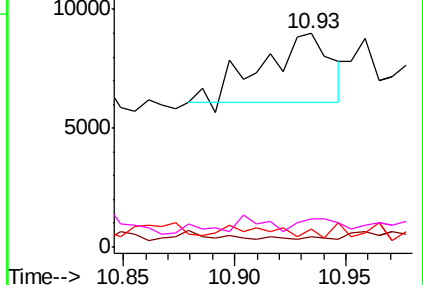


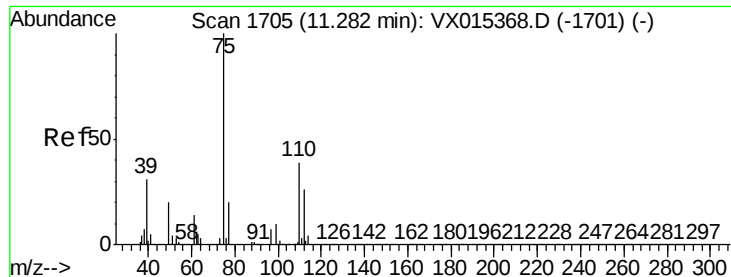
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.884 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

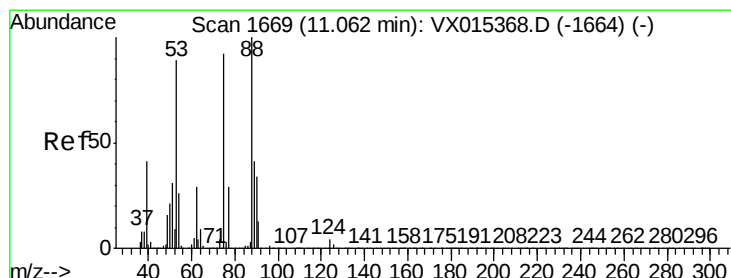
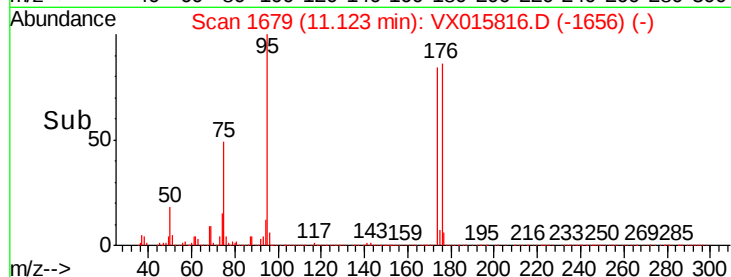
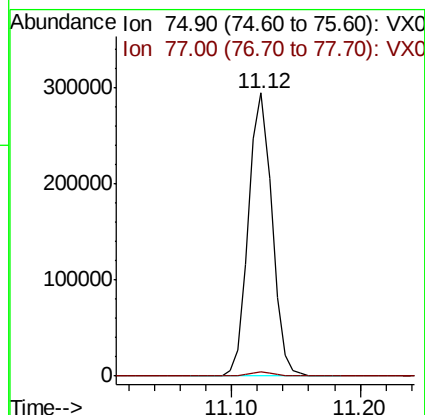
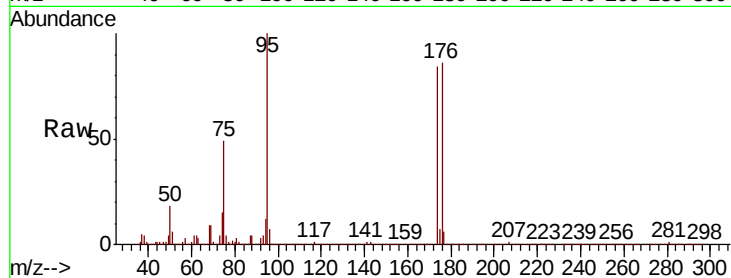
PB128378TB

Tot Ion: 75 Resp: 367027

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 52.509 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015816.D

Acq: 22 Apr 2020 00:34

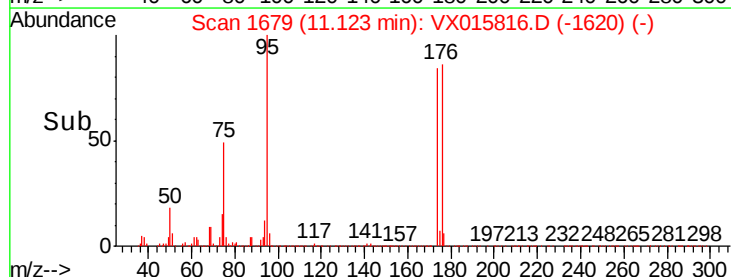
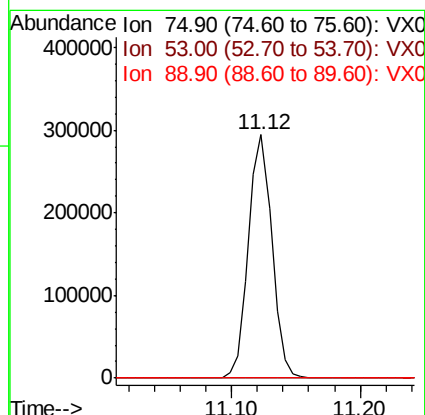
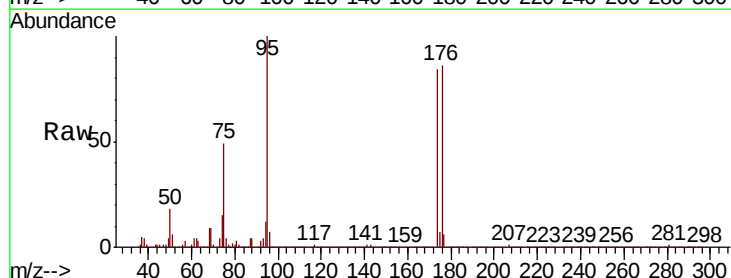
Tgt Ion: 75 Resp: 367027

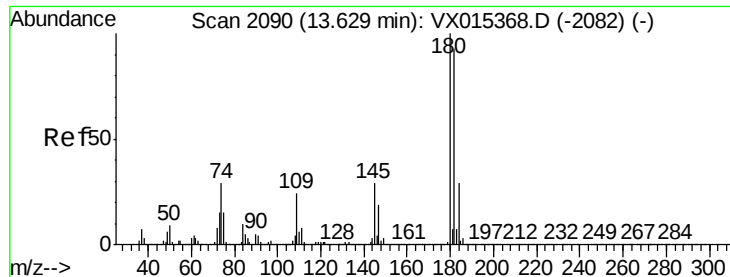
Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#

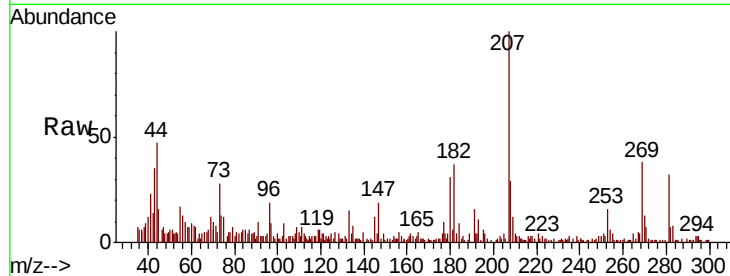




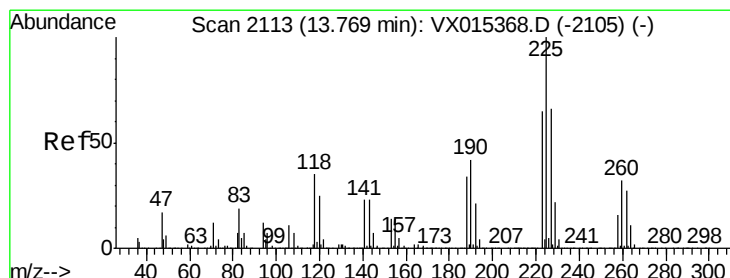
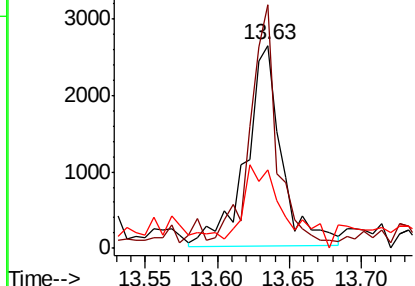
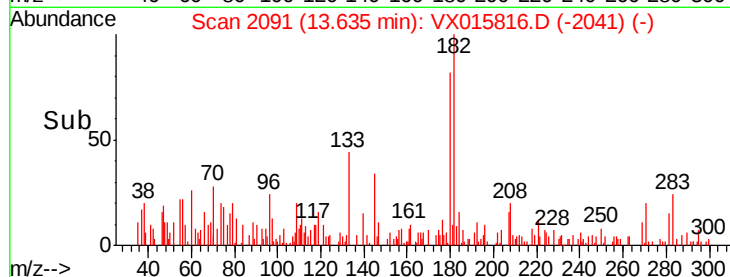
#93
 1,2,4-Trichlorobenzene
 Concen: 0.227 ug/l
 RT: 13.63 min Scan# 2091
 Delta R.T. 0.01 min
 Lab File: VX015816.D
 Acq: 22 Apr 2020 00:34

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128378TB

Tot Ion:180 Resp: 4475
 Ion Ratio Lower Upper
 180 100
 182 87.8 46.9 140.7
 145 32.4 14.9 44.5

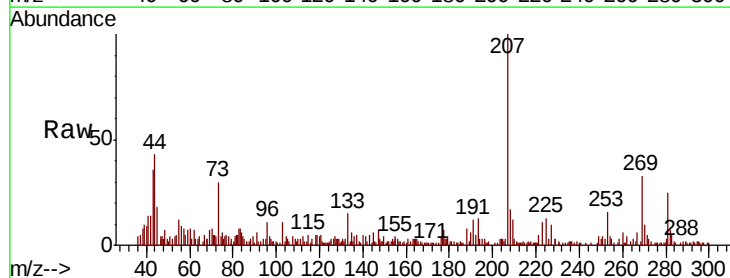


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

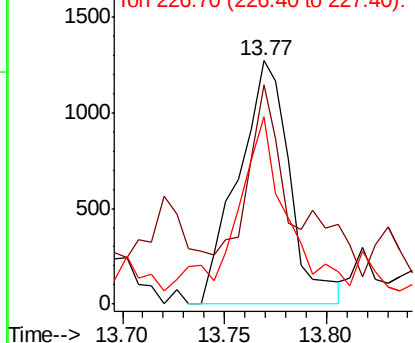
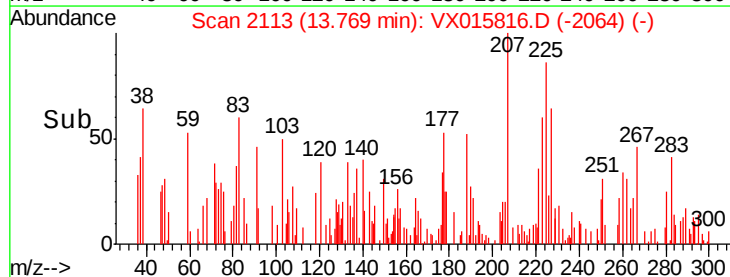


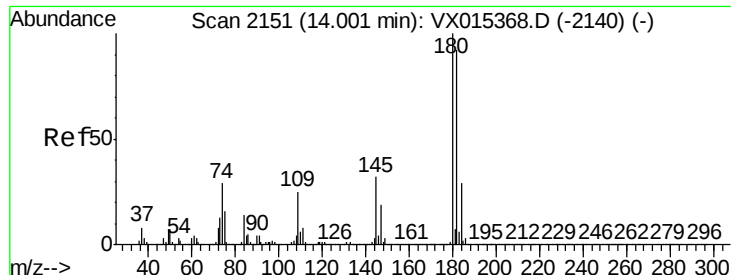
#94
 Hexachlorobutadiene
 Concen: 0.239 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VX015816.D
 Acq: 22 Apr 2020 00:34

Tgt Ion:225 Resp: 2245
 Ion Ratio Lower Upper
 225 100
 223 40.4 31.9 95.7
 227 83.6 30.4 91.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.204 ug/l
 RT: 14.00 min Scan# 2151
 Delta R.T. 0.00 min
 Lab File: VX015816.D
 Acq: 22 Apr 2020 00:34

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128378TB

Tot Ion:180 Resp: 3880
 Ion Ratio Lower Upper
 180 100
 182 84.9 46.7 140.0
 145 42.1 15.8 47.3

