

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040620\
 Data File : VX015515.D
 Acq On : 06 Apr 2020 16:11
 Operator : JC/SP
 Sample : PB128013TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128013TB

Quant Time: Apr 07 05:03:05 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	5.63	168	1181795	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1917662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1865311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	1053707	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	767152	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
35) Dibromofluoromethane	5.47	113	601146	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	8.70	98	2317053	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.12	95	1019762	55.60	ug/l	0.00
Spiked Amount			Recovery	=	111.20%	

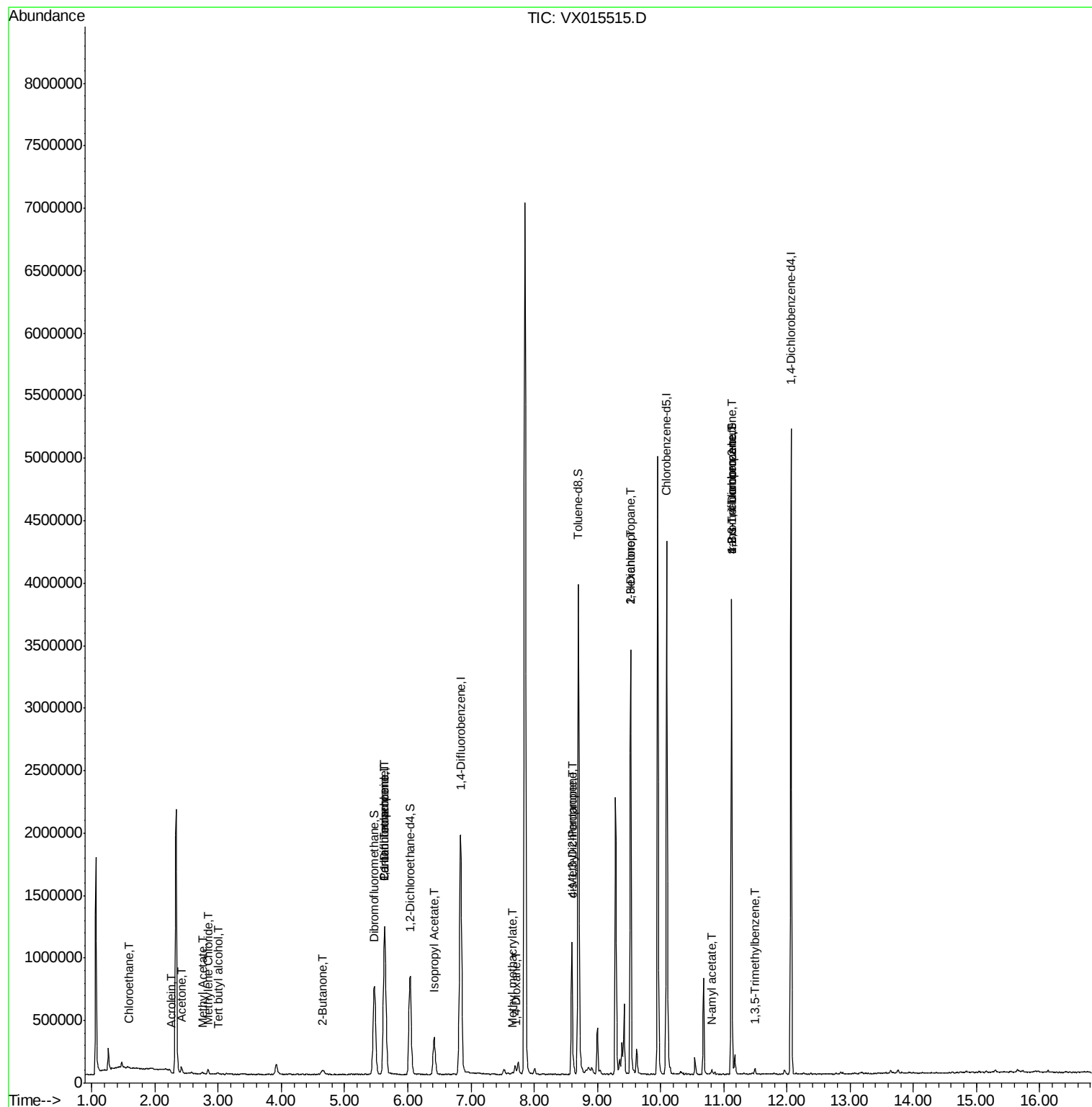
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	937	Below Cal		99
6) Chloroethane	1.59	64	2698	0.357	ug/l #	43
11) Tert butyl alcohol	3.00	59	8444	2.117	ug/l #	86
13) Acrolein	2.27	56	2250	0.990	ug/l #	14
16) Acetone	2.42	43	57719	8.060	ug/l	92
18) Methyl Acetate	2.75	43	16908	0.925	ug/l #	90
20) Methylene Chloride	2.84	84	16782	1.255	ug/l	85
25) 2-Butanone	4.64	43	13011	1.130	ug/l	90
36) 1,1-Dichloropropene	5.64	75	85396	4.833	ug/l #	51
38) Carbon Tetrachloride	5.63	117	112316	5.869	ug/l #	16
43) Isopropyl Acetate	6.42	43	424340	10.926	ug/l	100
48) Methyl methacrylate	7.65	41	22020	1.135	ug/l #	19
49) 1,4-Dioxane	7.72	88	869	2.401	ug/l #	20
51) 4-Methyl-2-Pentanone	8.60	43	408119	18.543	ug/l #	51
54) cis-1,3-Dichloropropene	8.60	75	167506	7.085	ug/l #	52
57) 1,3-Dichloropropane	9.53	76	27833	1.182	ug/l #	45
59) 2-Hexanone	9.53	43	436967	26.296	ug/l #	51
74) N-amyl acetate	10.81	43	21127	0.550	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	512337	23.644	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	21061	0.357	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	512337	56.733	ug/l #	10

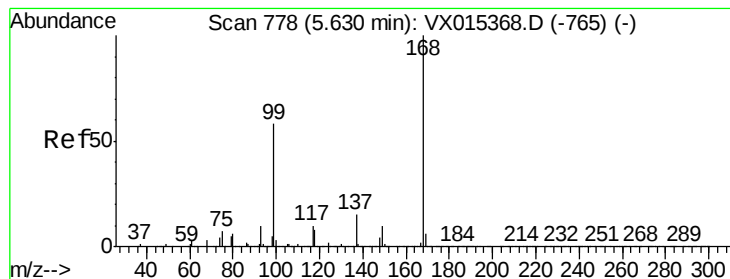
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
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: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

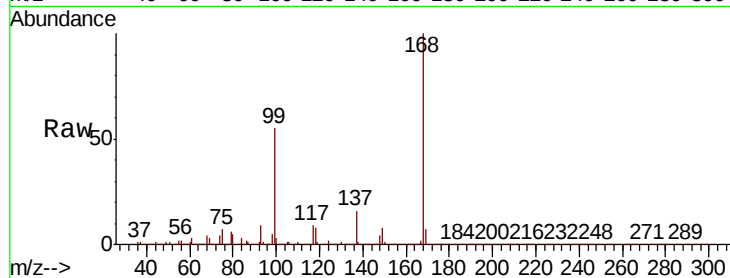
PB128013TB

Tot Ion:168 Resp: 1181795

Ion Ratio Lower Upper

168 100

99 55.0 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

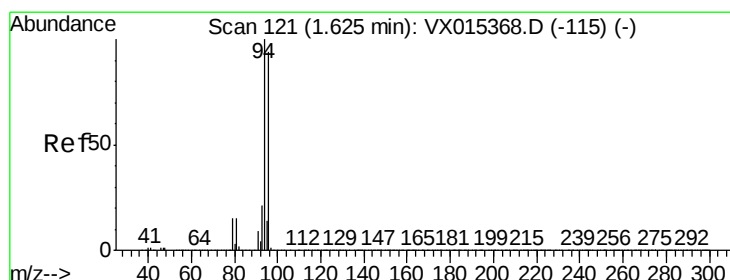
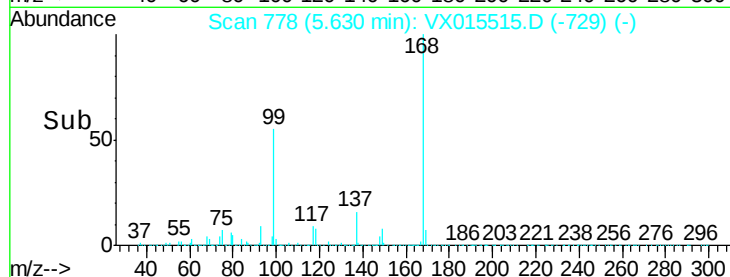
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 118

Delta R.T. -0.02 min

Lab File: VX015515.D

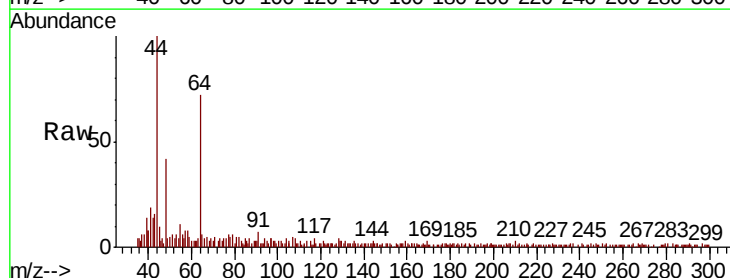
Acq: 06 Apr 2020 16:11

Tgt Ion: 94 Resp: 937

Ion Ratio Lower Upper

94 100

96 92.5 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.61

1000

800

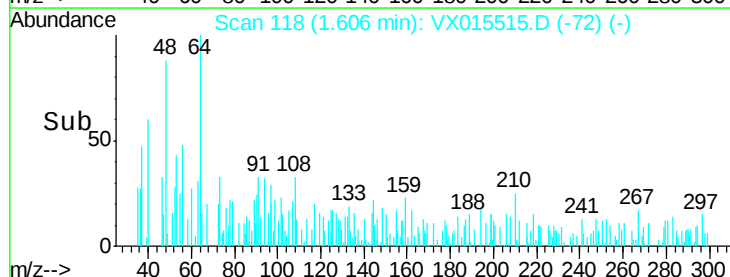
600

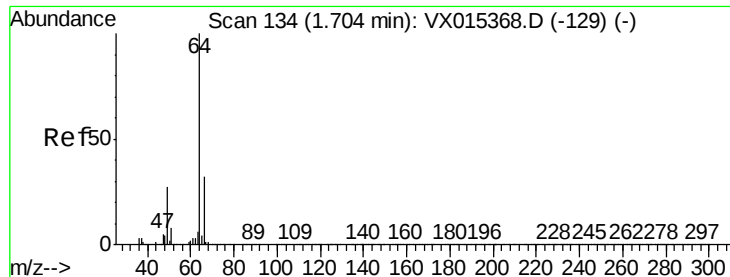
400

200

0

Time-->





#6

Chloroethane

Concen: 0.357 ug/l

RT: 1.59 min Scan# 116

Delta R.T. -0.11 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

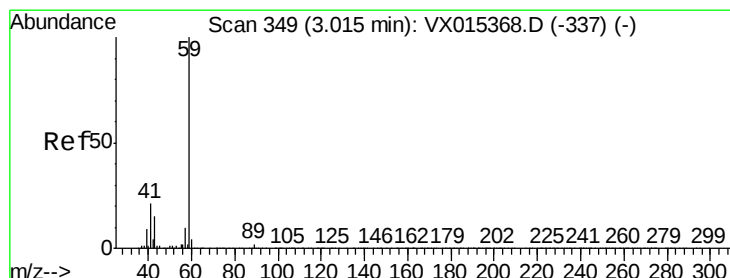
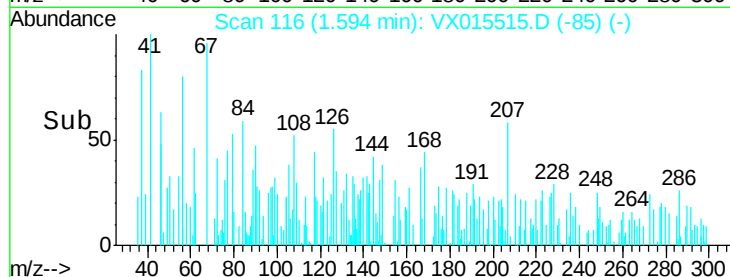
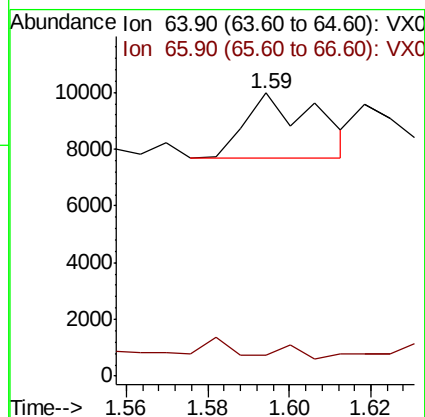
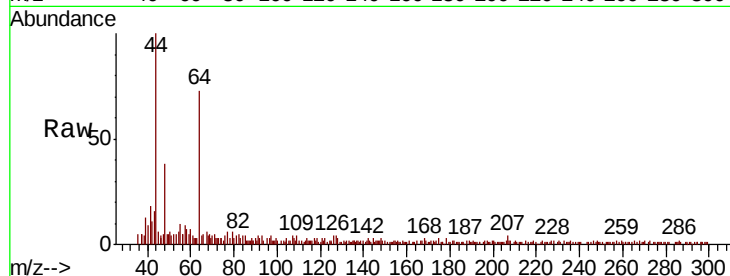
PB128013TB

Tot Ion: 64 Resp: 2698

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: 2.117 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015515.D

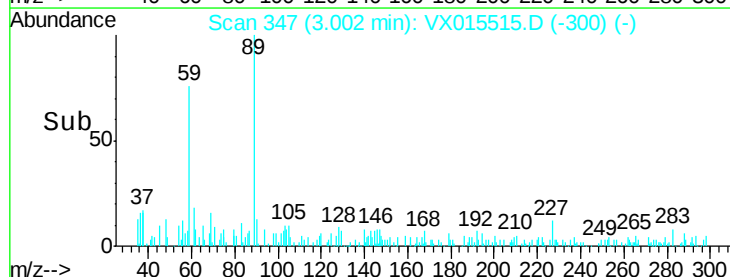
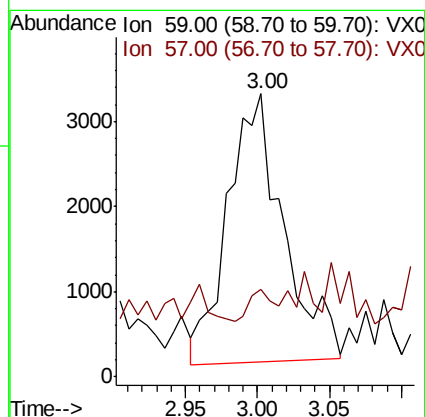
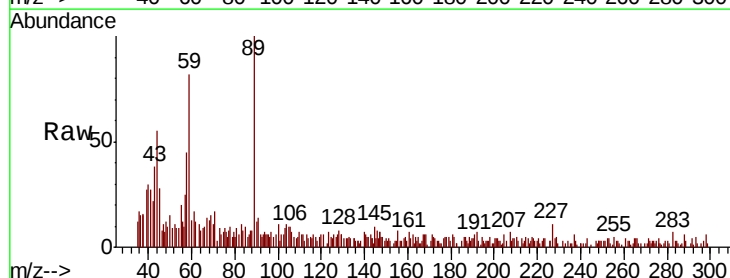
Acq: 06 Apr 2020 16:11

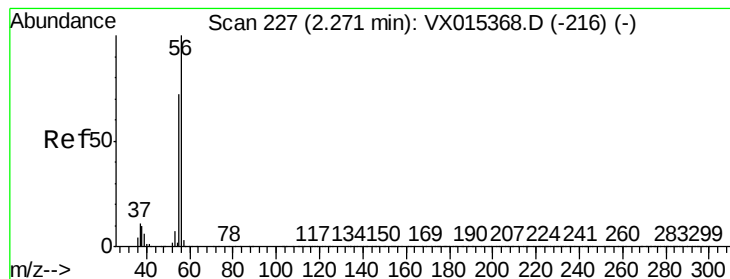
Tgt Ion: 59 Resp: 8444

Ion Ratio Lower Upper

59 100

57 4.9 8.1 12.1#





#13

Acrolein

Concen: 0.990 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

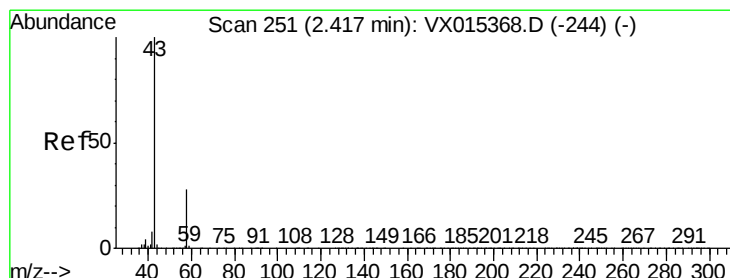
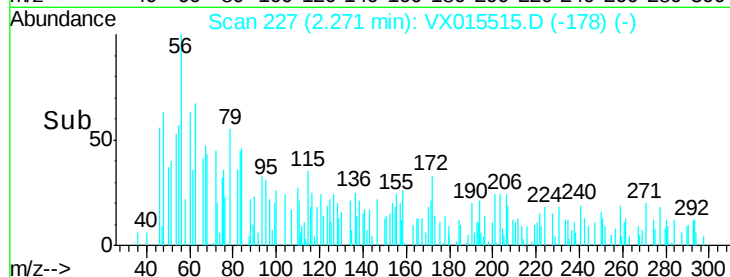
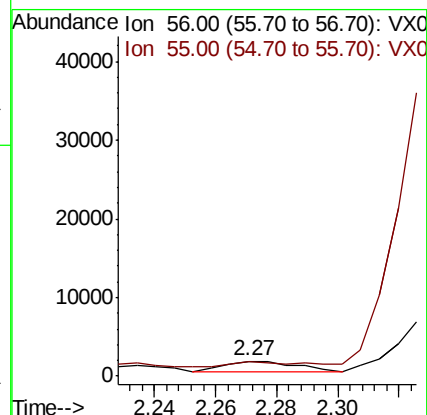
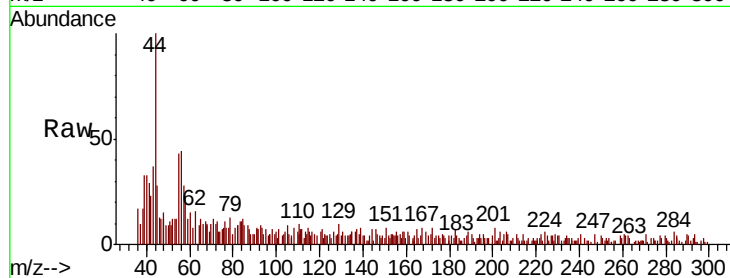
PB128013TB

Tot Ion: 56 Resp: 2250

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 8.060 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015515.D

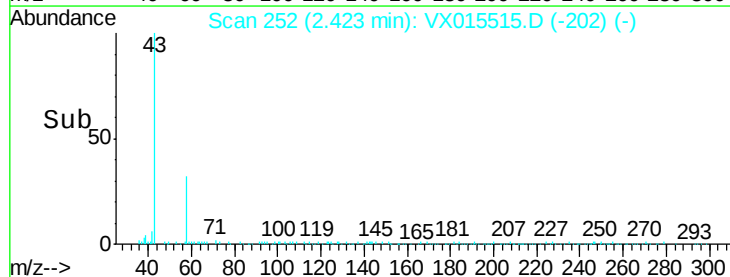
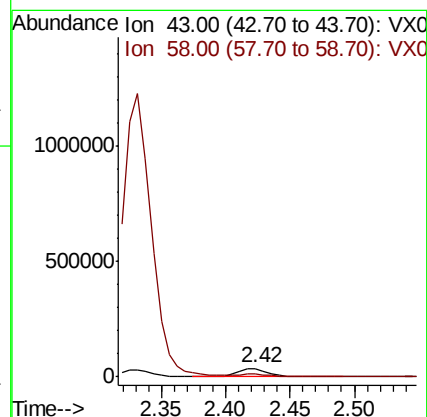
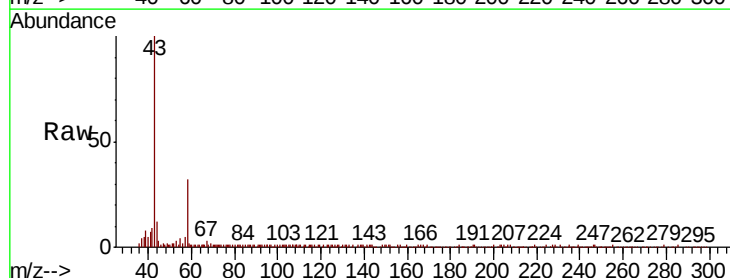
Acq: 06 Apr 2020 16:11

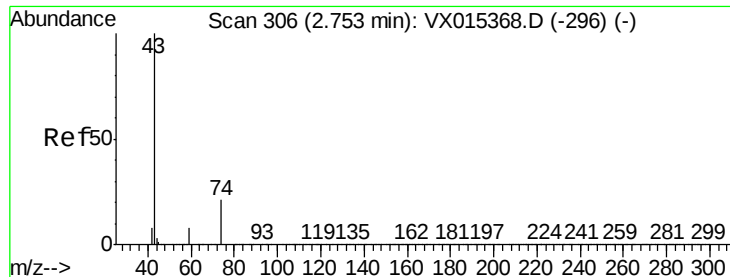
Tgt Ion: 43 Resp: 57719

Ion Ratio Lower Upper

43 100

58 23.3 22.1 33.1

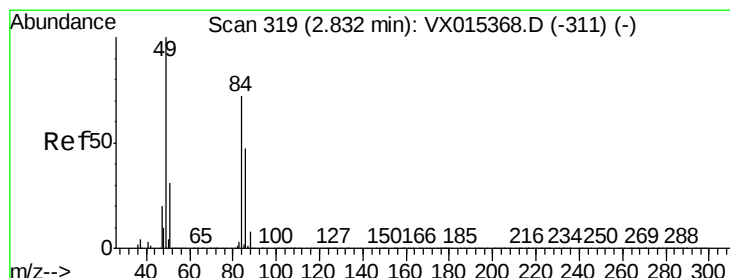
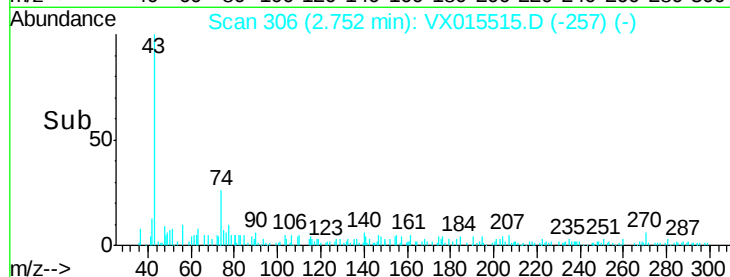
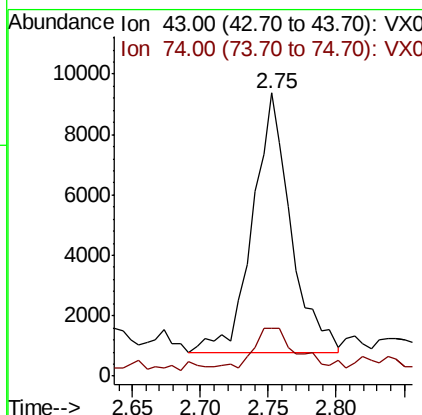
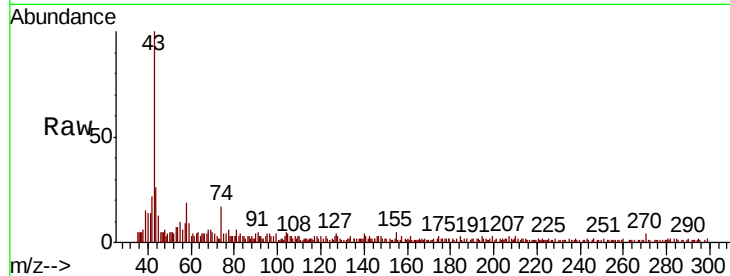




#18
Methyl Acetate
Concen: 0.925 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

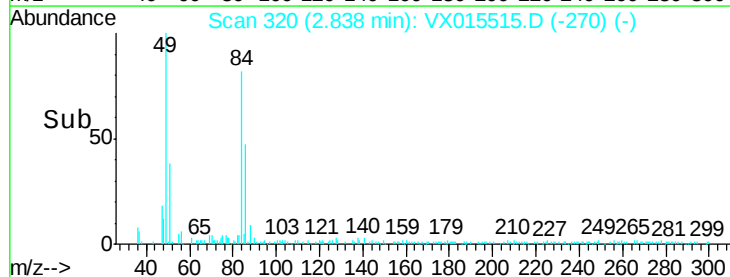
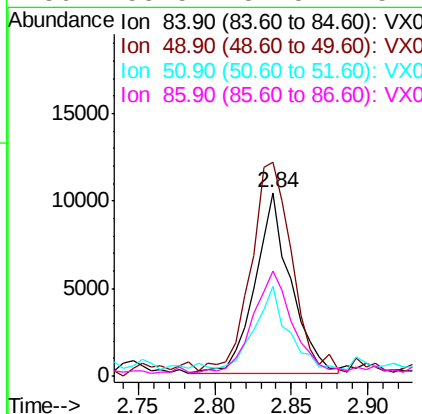
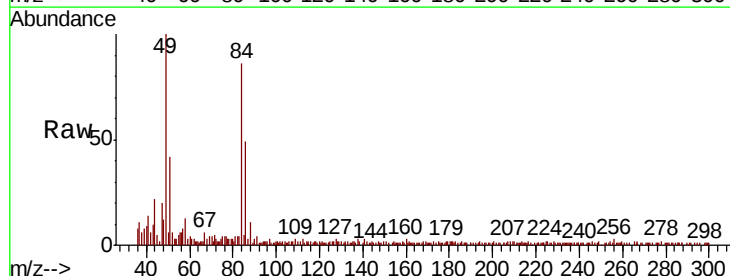
Instrument :
MSVOA_X
ClientSampled :
PB128013TB

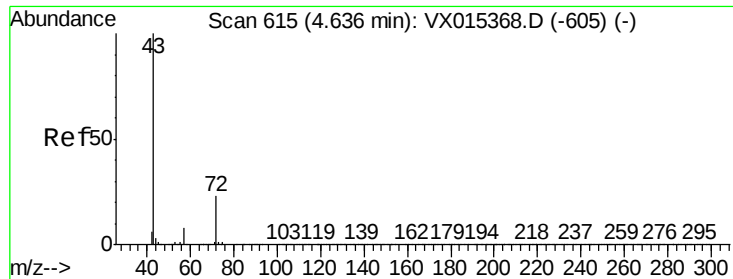
Tot Ion: 43 Resp: 16908
Ion Ratio Lower Upper
43 100
74 15.8 16.5 24.7#



#20
Methylene Chloride
Concen: 1.255 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

Tgt Ion: 84 Resp: 16782
Ion Ratio Lower Upper
84 100
49 114.4 111.3 166.9
51 44.9 34.0 51.0
86 55.5 52.5 78.7

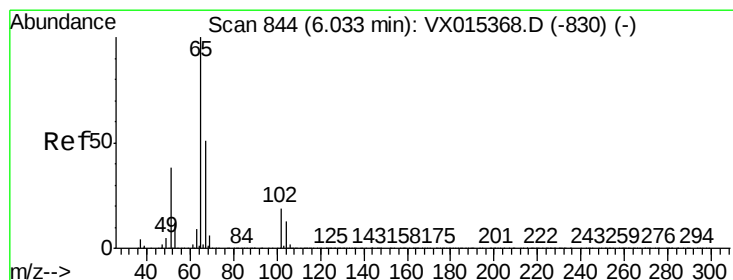
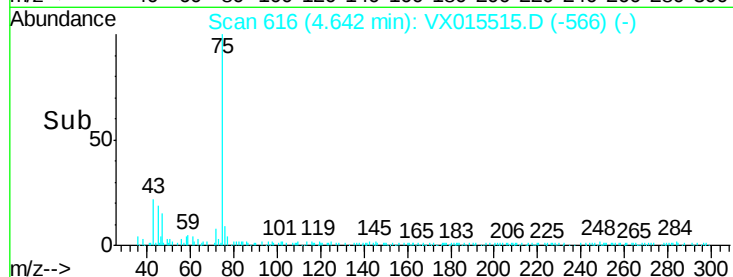
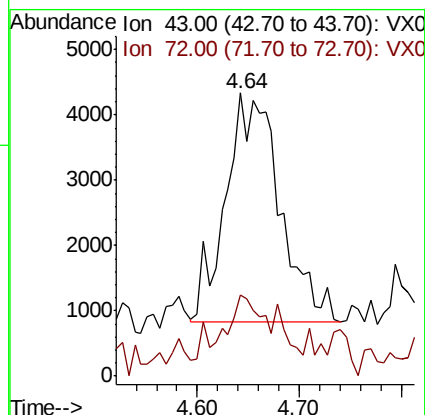
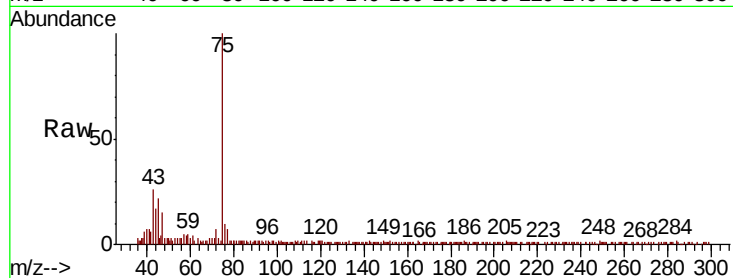




#25
2-Butanone
Concen: 1.130 ug/l
RT: 4.64 min Scan# 616
Delta R.T. 0.01 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

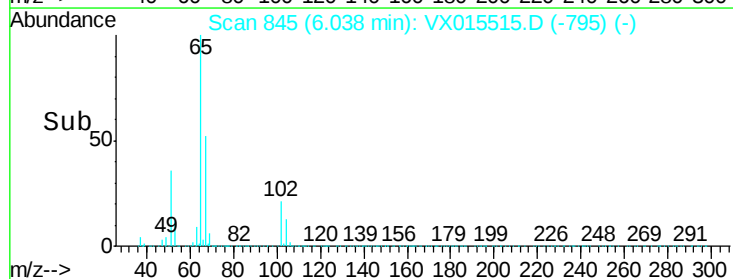
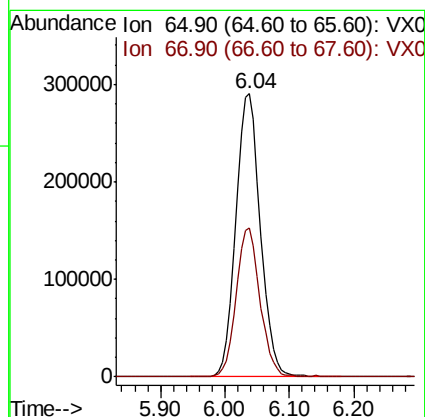
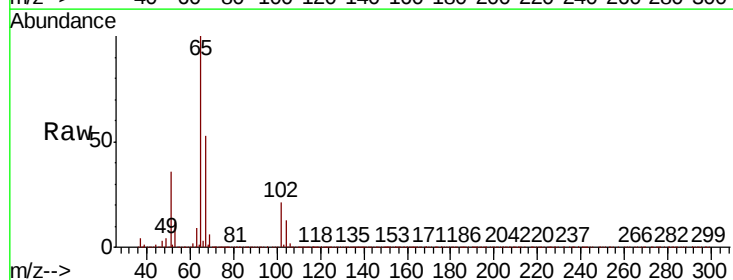
Instrument :
MSVOA_X
ClientSampled :
PB128013TB

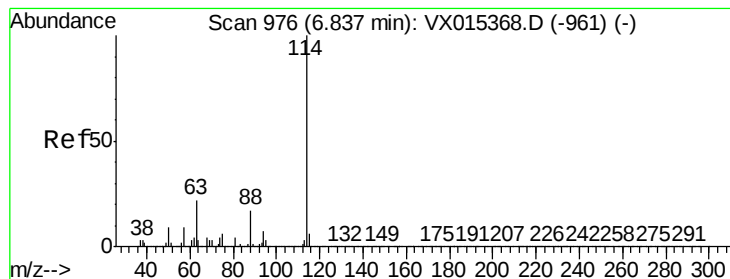
Tot Ion: 43 Resp: 13011
Ion Ratio Lower Upper
43 100
72 28.4 19.0 28.4



#33
1,2-Dichloroethane-d4
Concen: 46.026 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

Tgt Ion: 65 Resp: 767152
Ion Ratio Lower Upper
65 100
67 50.9 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: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

PB128013TB

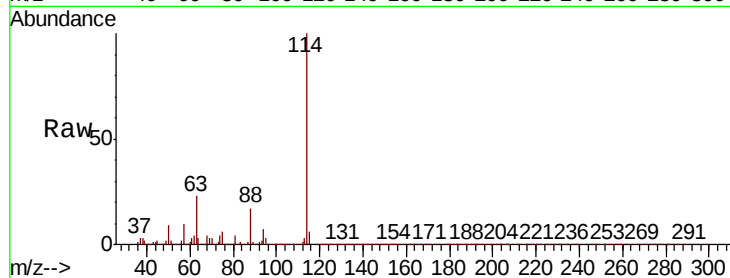
Tot Ion:114 Resp: 1917662

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.2

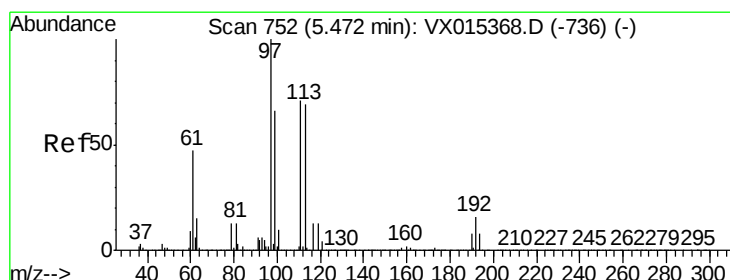
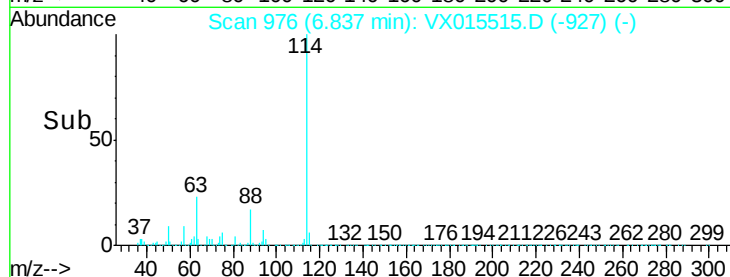
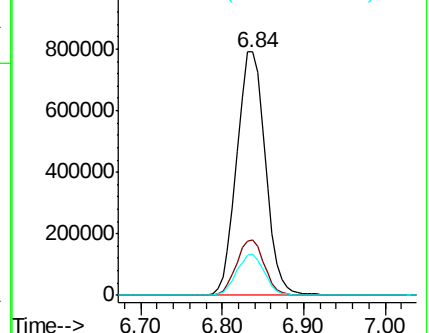
88 16.9 0.0 33.8



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: 49.040 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

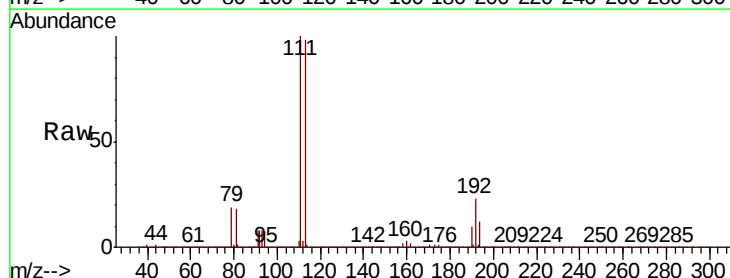
Tgt Ion:113 Resp: 601146

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

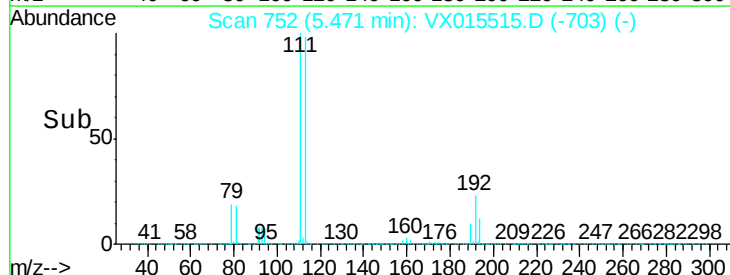
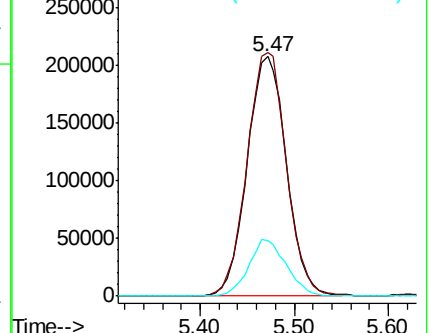
192 22.4 17.8 26.6

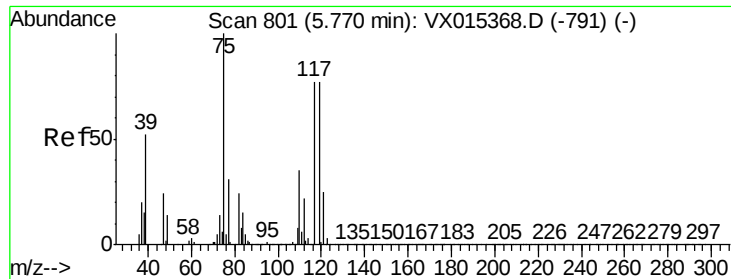


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

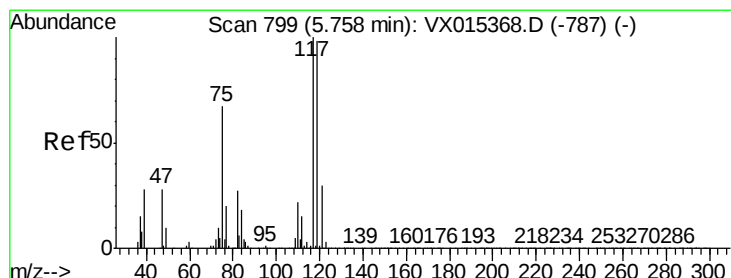
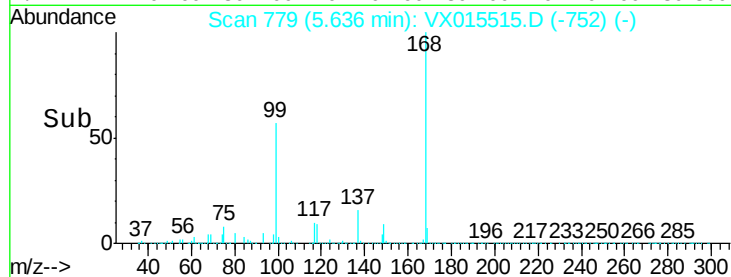
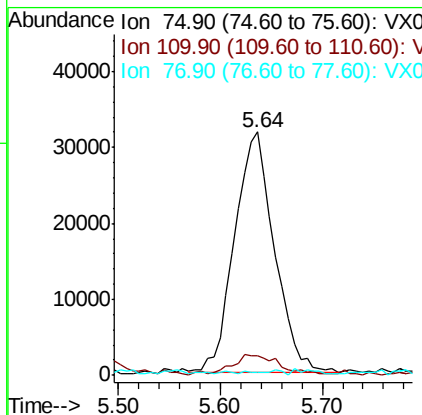
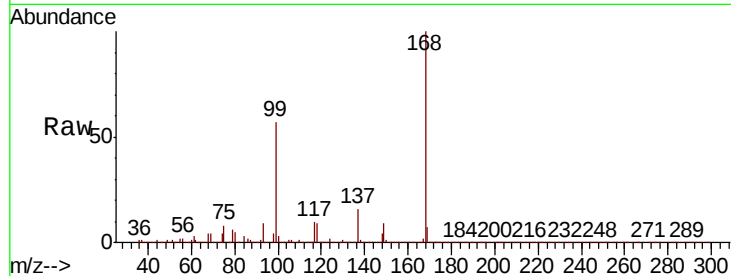




#36
 1,1-Dichloropropene
 Concen: 4.833 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015515.D
 Acq: 06 Apr 2020 16:11

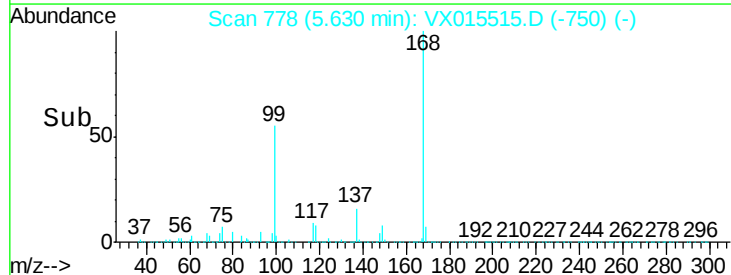
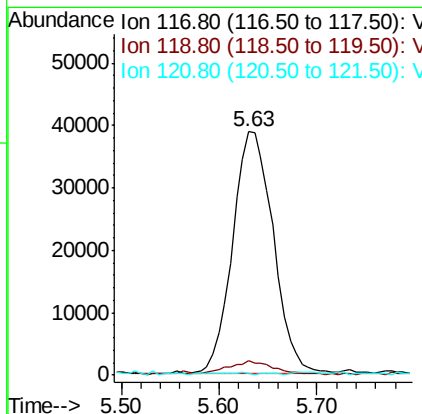
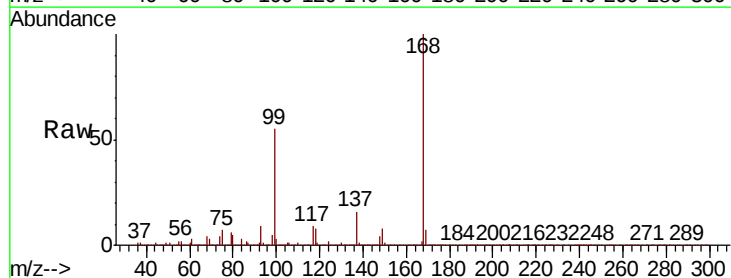
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128013TB

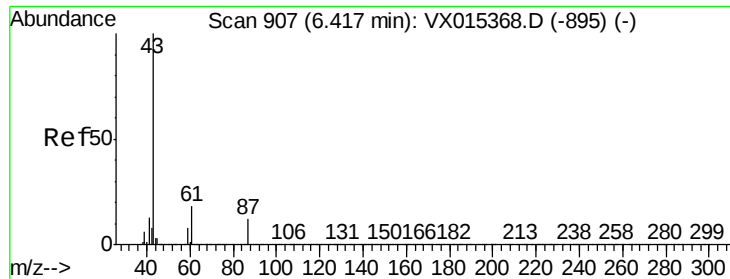
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.1	51.3#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.869 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.13 min
 Lab File: VX015515.D
 Acq: 06 Apr 2020 16:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	78.0	117.0#
121	0.7	23.8	35.8#



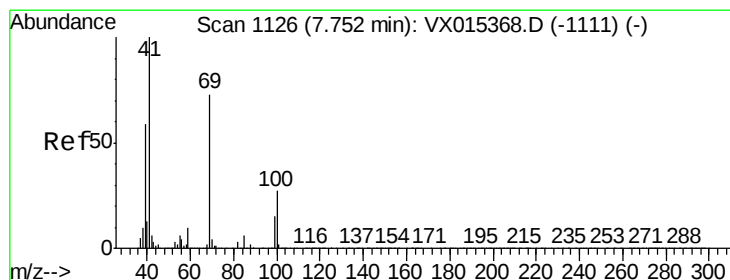
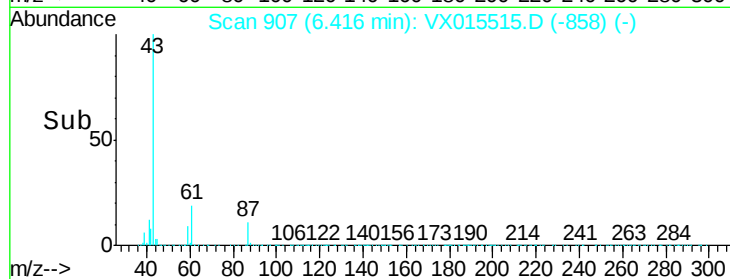
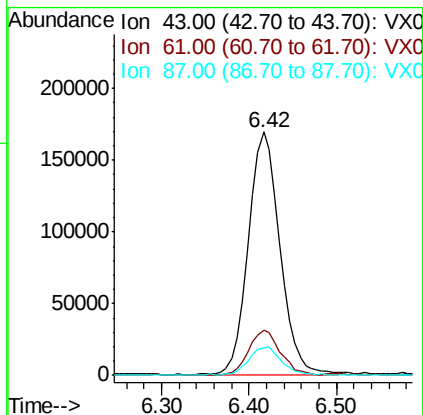
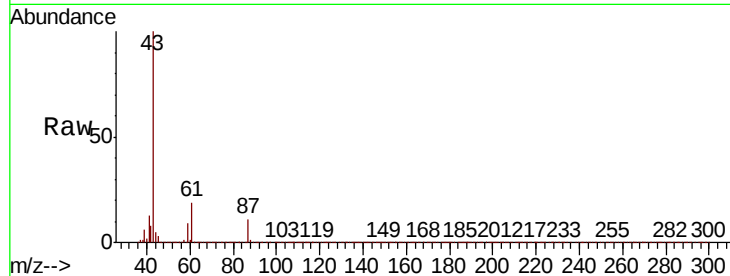


#43

Isopropyl Acetate
 Concen: 10.926 ug/l
 RT: 6.42 min Scan# 907
 Delta R.T. -0.00 min
 Lab File: VX015515.D
 Acq: 06 Apr 2020 16:11

Instrument :
 MSVOA_X
 ClientSampled :
 PB128013TB

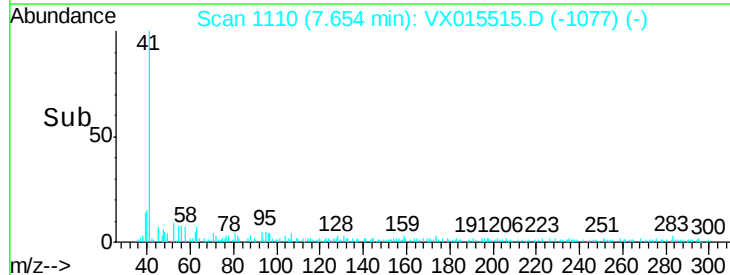
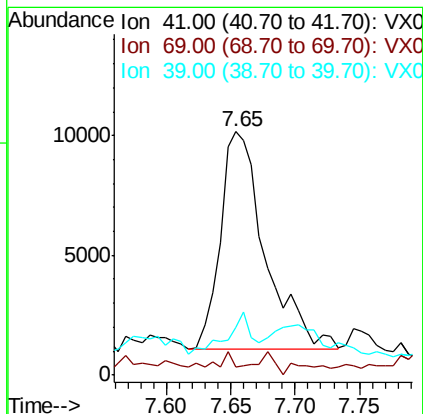
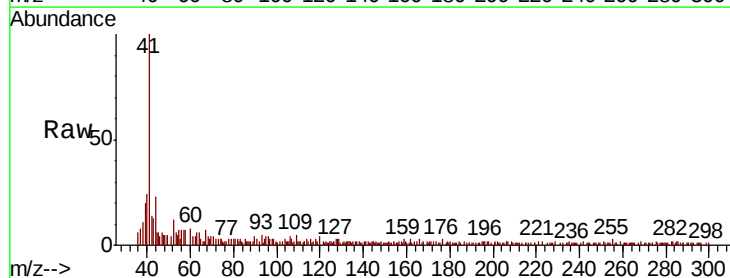
Tot Ion	43	Resp	424340
Ion Ratio	Lower	Upper	
43	100		
61	18.2	14.8	22.2
87	11.7	9.4	14.0

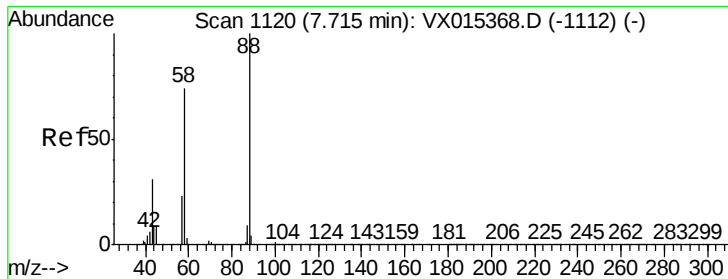


#48

Methyl methacrylate
 Concen: 1.135 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.10 min
 Lab File: VX015515.D
 Acq: 06 Apr 2020 16:11

Tgt Ion	41	Resp	22020
Ion Ratio	Lower	Upper	
41	100		
69	1.4	56.7	85.1#
39	0.0	46.5	69.7#





#49

1,4-Dioxane

Concen: 2.401 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

PB128013TB

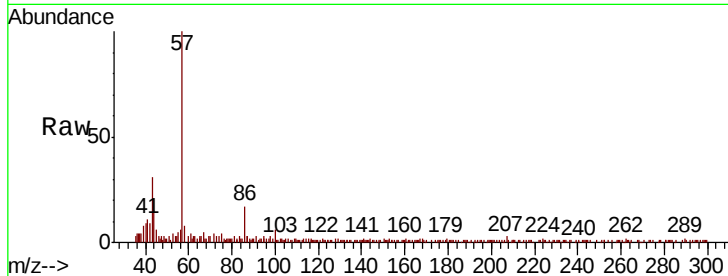
Tot Ion: 88 Resp: 869

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

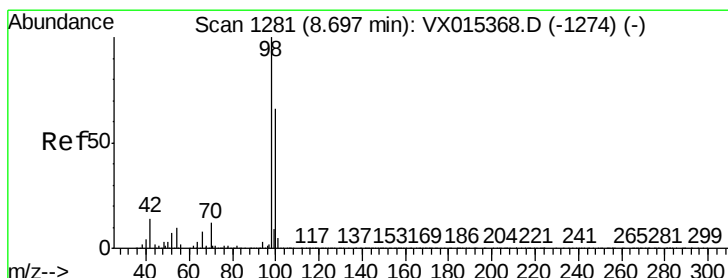
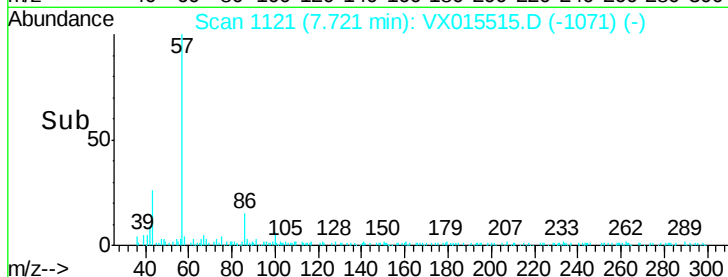
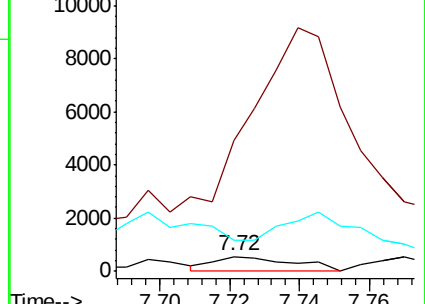
58 0.0 60.6 90.8#



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: 51.340 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015515.D

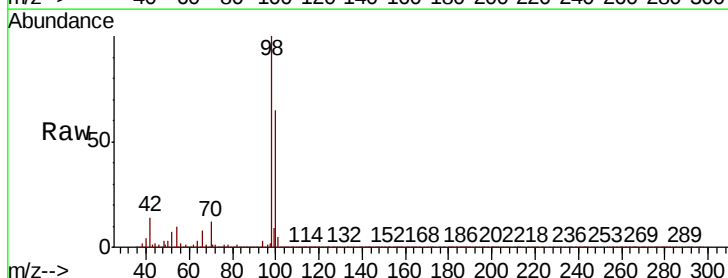
Acq: 06 Apr 2020 16:11

Tgt Ion: 98 Resp: 2317053

Ion Ratio Lower Upper

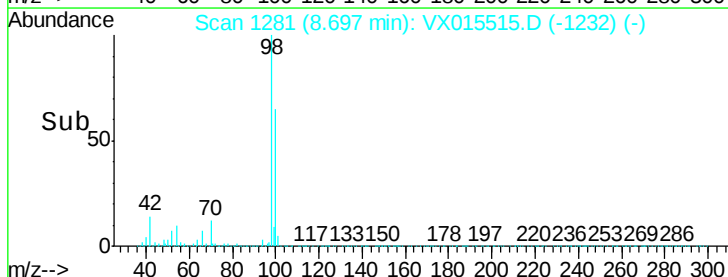
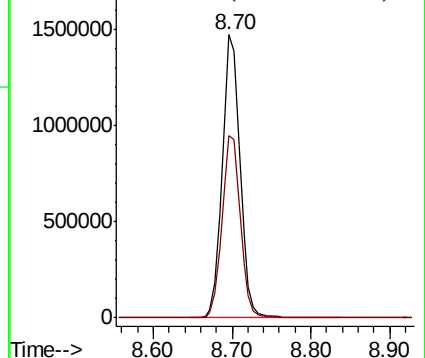
98 100

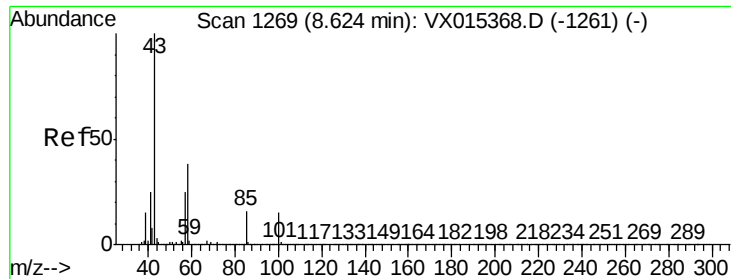
100 66.1 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

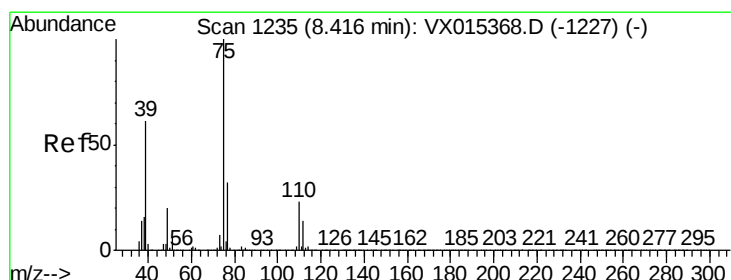
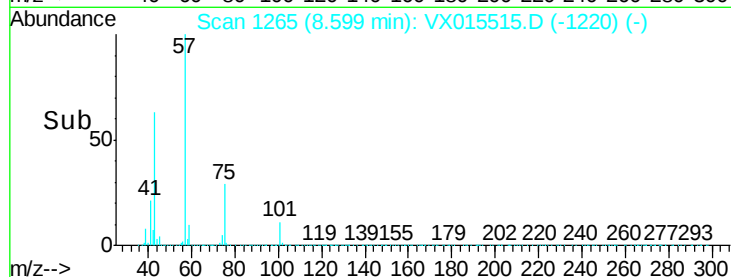
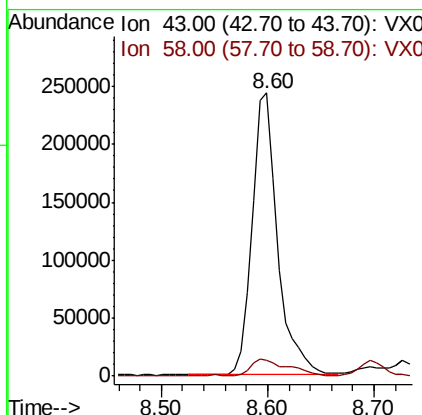
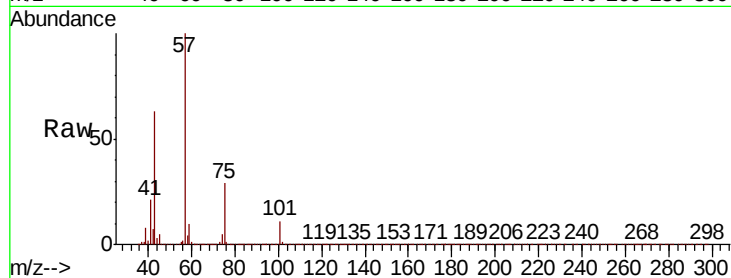




#51
4-Methyl-2-Pentanone
Concen: 18.543 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. -0.02 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

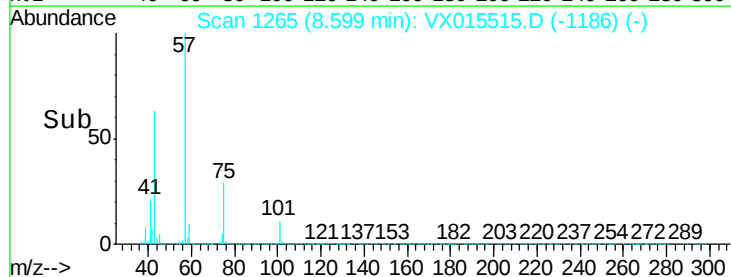
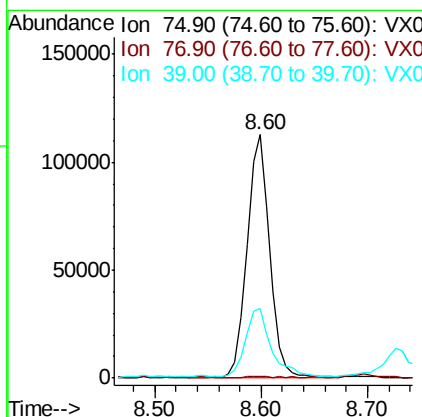
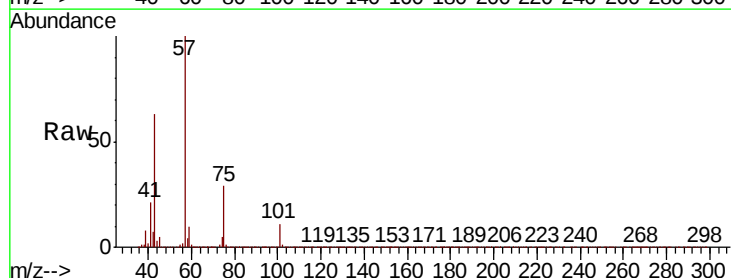
Instrument :
MSVOA_X
ClientSampled :
PB128013TB

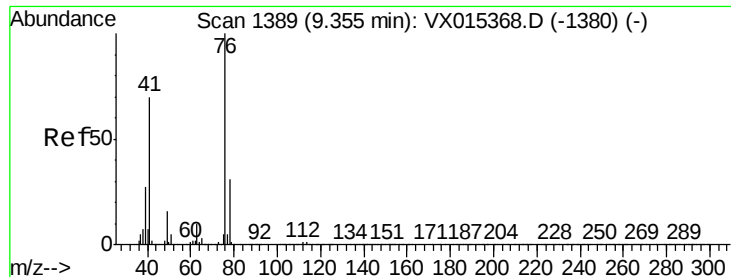
Tot Ion: 43 Resp: 408119
Ion Ratio Lower Upper
43 100
58 8.1 29.7 44.5#



#54
cis-1,3-Dichloropropene
Concen: 7.085 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. 0.18 min
Lab File: VX015515.D
Acq: 06 Apr 2020 16:11

Tgt Ion: 75 Resp: 167506
Ion Ratio Lower Upper
75 100
77 0.2 25.8 38.6#
39 27.9 49.0 73.4#





#57

1,3-Dichloropropane

Concen: 1.182 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.17 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

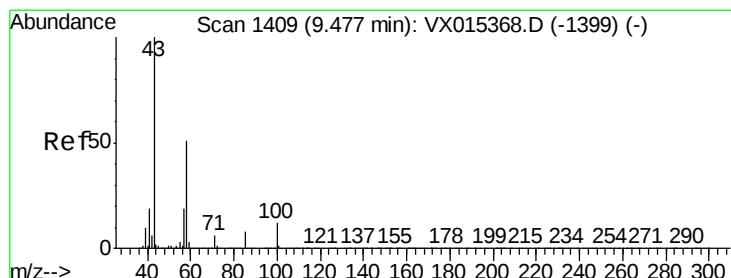
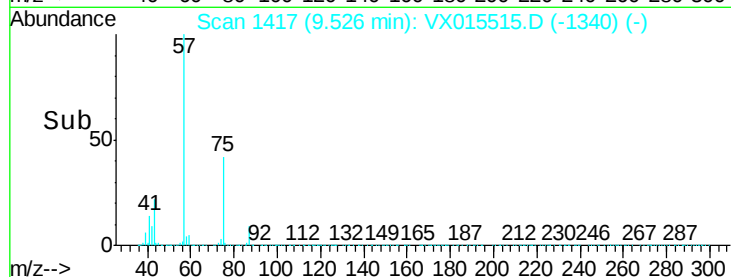
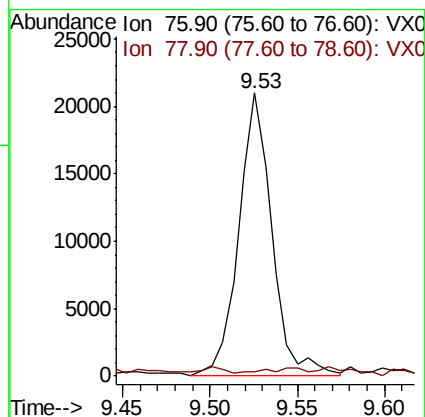
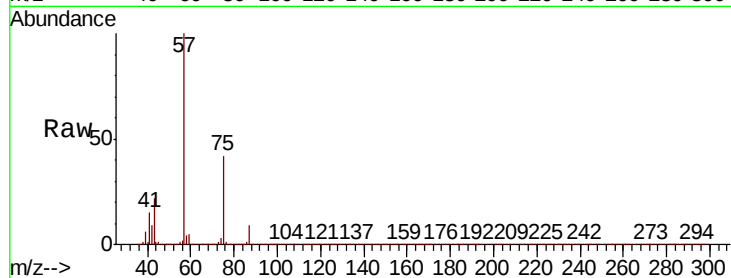
PB128013TB

Tot Ion: 76 Resp: 27833

Ion Ratio Lower Upper

76 100

78 1.8 25.8 38.8#



#59

2-Hexanone

Concen: 26.296 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015515.D

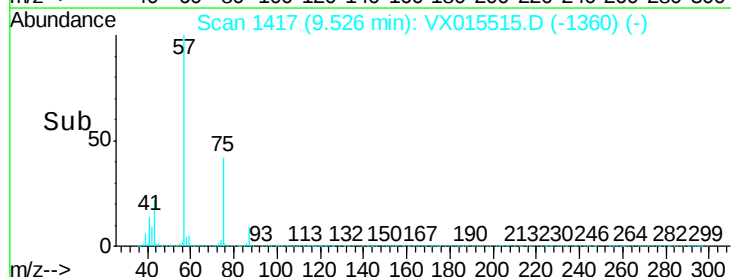
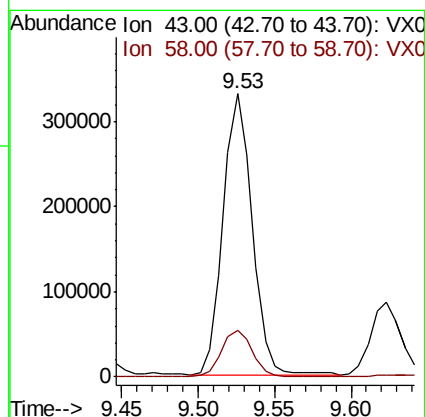
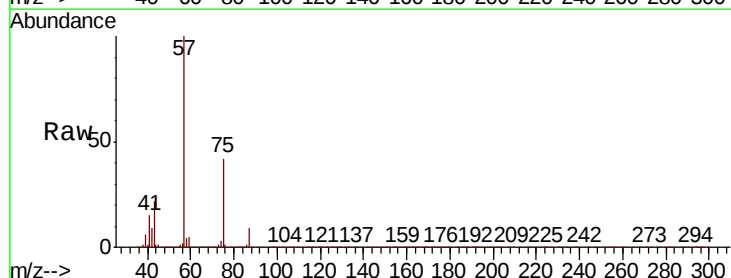
Acq: 06 Apr 2020 16:11

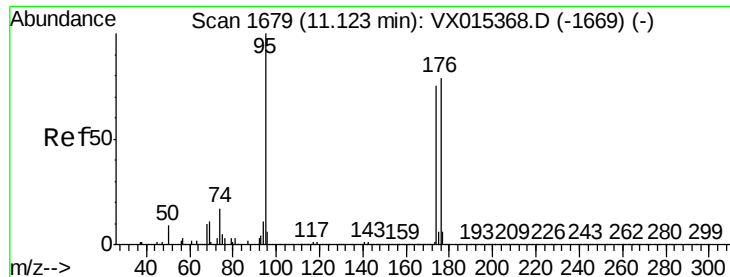
Tgt Ion: 43 Resp: 436967

Ion Ratio Lower Upper

43 100

58 17.3 25.6 76.6#





#62

4-Bromofluorobenzene

Concen: 55.598 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

PB128013TB

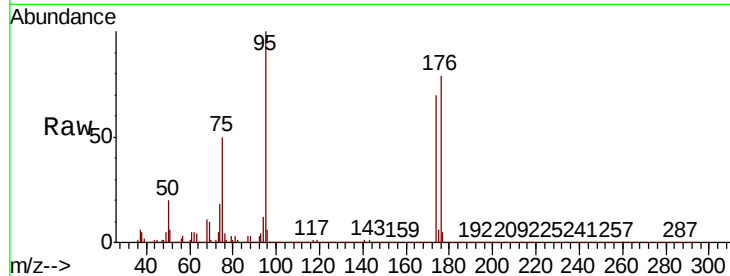
Tot Ion: 95 Resp: 1019762

Ion Ratio Lower Upper

95 100

174 79.1 0.0 158.6

176 79.0 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

11.12

800000

600000

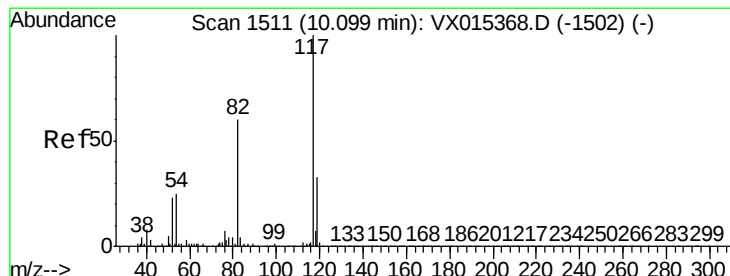
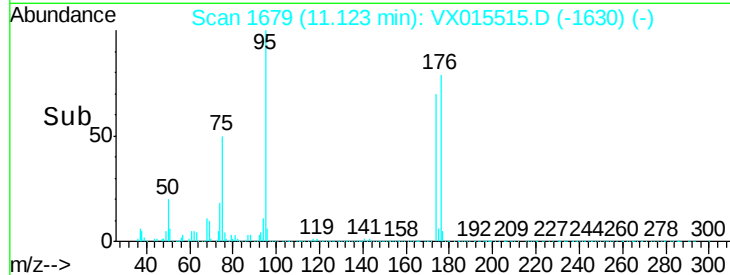
400000

200000

0

11.00 11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

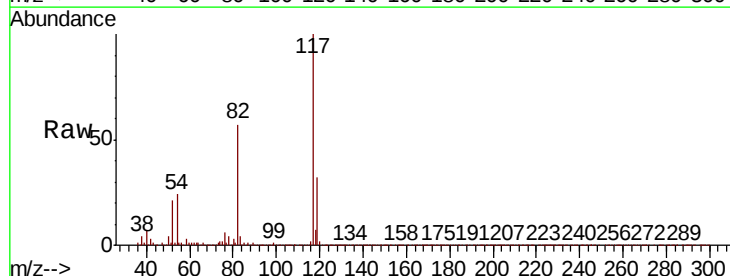
Tgt Ion: 117 Resp: 1865311

Ion Ratio Lower Upper

117 100

82 57.3 47.8 71.8

119 31.9 26.8 40.2



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

10.10

1500000

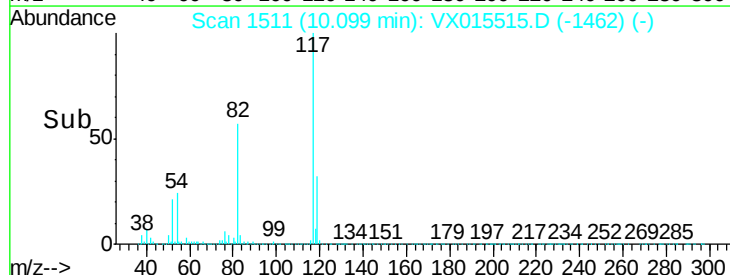
1000000

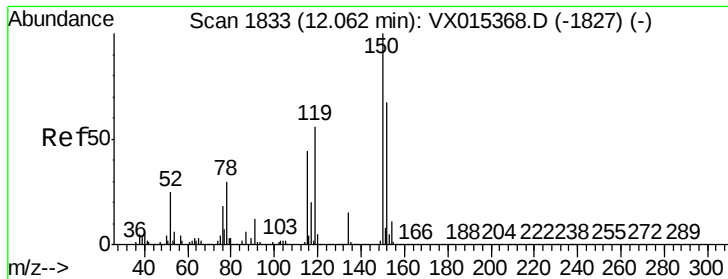
500000

0

10.00 10.10 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

PB128013TB

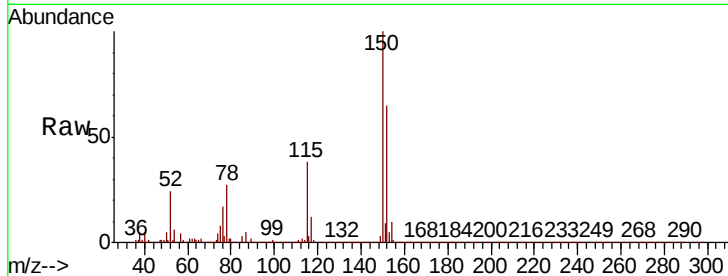
Tot Ion:152 Resp: 1053707

Ion Ratio Lower Upper

152 100

115 58.0 39.0 116.9

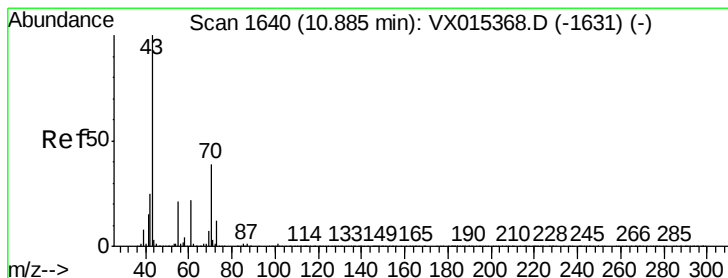
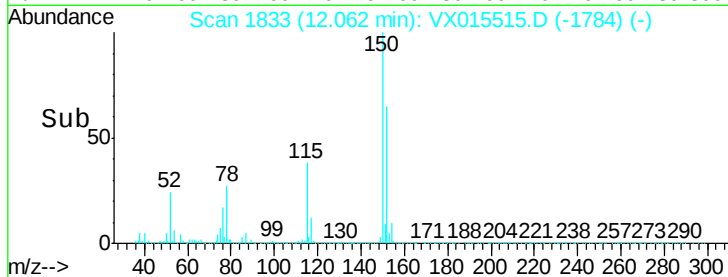
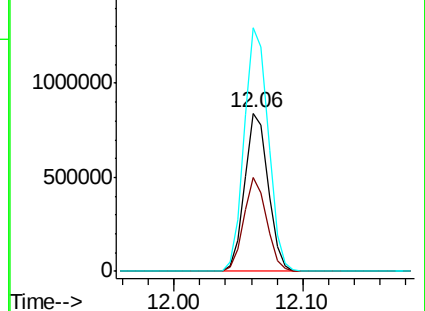
150 157.9 0.0 340.8



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: 0.550 ug/l

RT: 10.81 min Scan# 1628

Delta R.T. -0.07 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Tgt Ion: 43 Resp: 21127

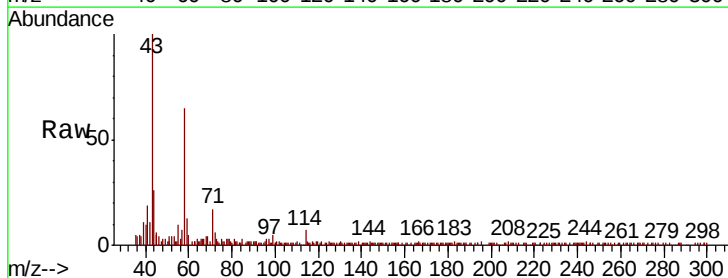
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 12.6 16.8 25.2#

61 0.0 18.2 27.2#

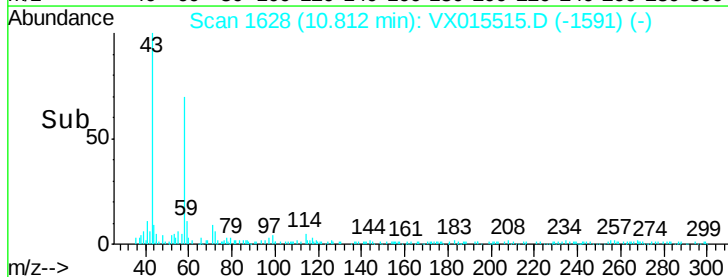
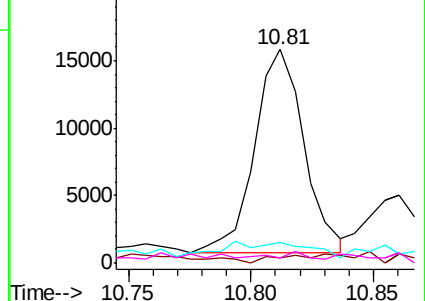


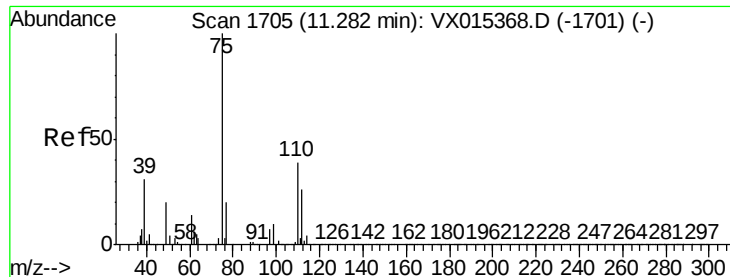
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.644 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampled :

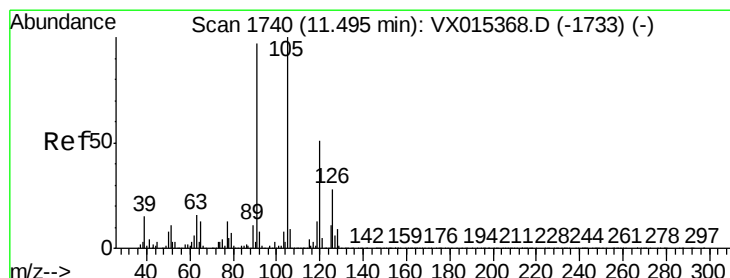
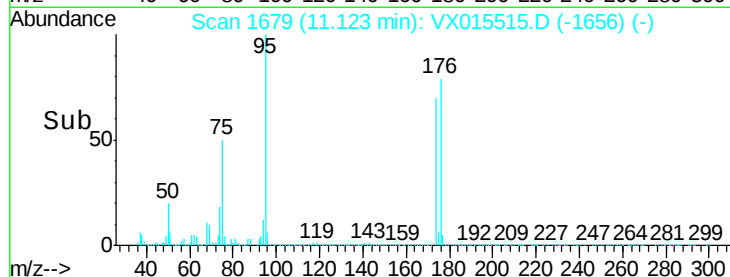
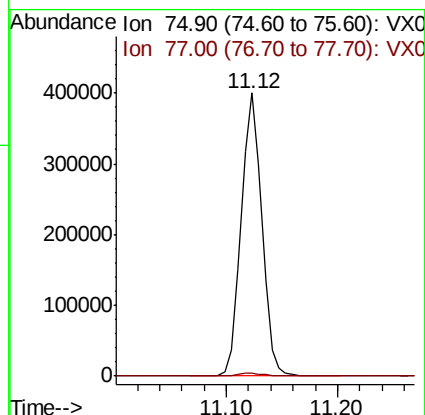
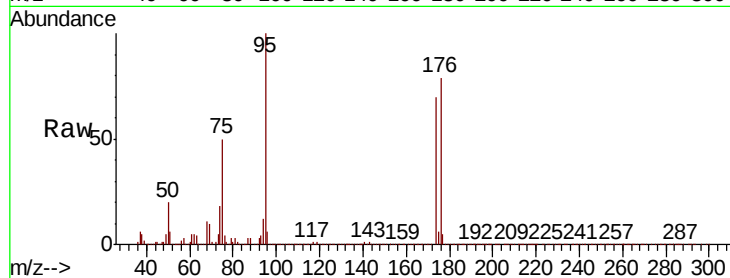
PB128013TB

Tot Ion: 75 Resp: 512337

Ion Ratio Lower Upper

75 100

77 1.6 21.2 63.6#



#80

1,3,5-Trimethylbenzene

Concen: 0.357 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VX015515.D

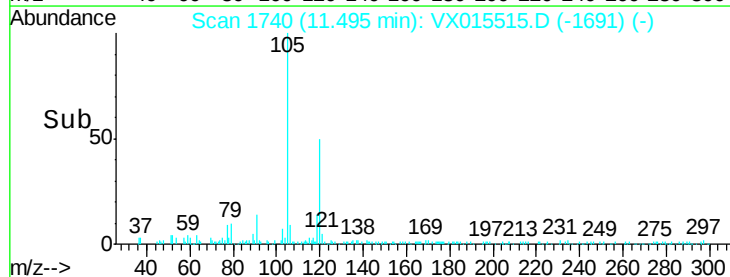
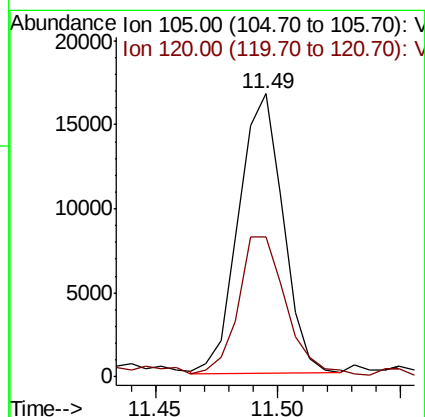
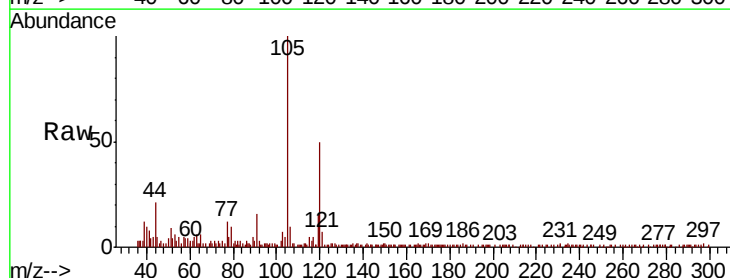
Acq: 06 Apr 2020 16:11

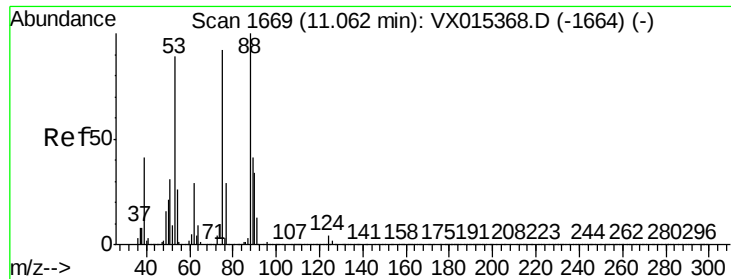
Tgt Ion:105 Resp: 21061

Ion Ratio Lower Upper

105 100

120 53.1 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 56.733 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015515.D

Acq: 06 Apr 2020 16:11

Instrument :

MSVOA_X

ClientSampleId :

PB128013TB

Tot Ion: 75 Resp: 512337

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.1 36.1 54.1#

