

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015490.D
 Acq On : 02 Apr 2020 18:23
 Operator : JC/SP
 Sample : PB127948ZHE#12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127948ZHE#12

Quant Time: Apr 03 08:03:49 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	1084907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1778019	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1651956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	869202	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	742372	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
35) Dibromofluoromethane	5.47	113	556526	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
50) Toluene-d8	8.70	98	2137020	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.12	95	914161	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	835	Below Cal	#	5
11) Tert butyl alcohol	3.00	59	18368	5.015	ug/l #	80
13) Acrolein	2.29	56	481	0.231	ug/l	86
16) Acetone	2.42	43	47143	7.171	ug/l	94
18) Methyl Acetate	2.75	43	13513	0.805	ug/l #	80
20) Methylene Chloride	2.84	84	15376	1.252	ug/l #	87
25) 2-Butanone	4.65	43	13184	1.247	ug/l #	67
36) 1,1-Dichloropropene	5.64	75	85231	5.203	ug/l #	52
38) Carbon Tetrachloride	5.64	117	104316	5.879	ug/l #	15
43) Isopropyl Acetate	6.42	43	382031	10.609	ug/l	99
48) Methyl methacrylate	7.86	41	566439	31.493	ug/l #	50
49) 1,4-Dioxane	7.72	88	327	0.975	ug/l #	20
51) 4-Methyl-2-Pentanone	8.60	43	369532	18.108	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	146616	6.688	ug/l #	55
59) 2-Hexanone	9.53	43	388377	25.208	ug/l #	52
74) N-amyl acetate	10.81	43	17518	0.553	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	471520	26.380	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	44333	0.911	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.12	75	471520	63.297	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015490.D

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Instrument :

MSVOA_X

ClientSampleId :

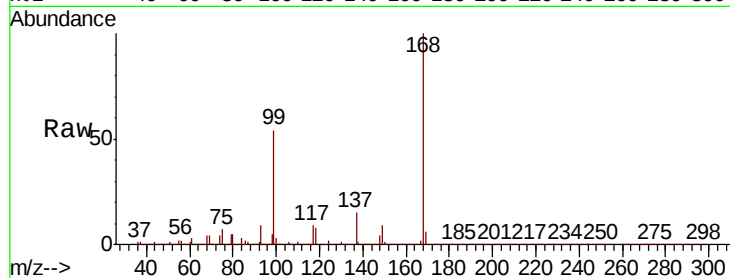
PB127948ZHE#12

Tot Ion:168 Resp: 1084907

Ion Ratio Lower Upper

168 100

99 54.1 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

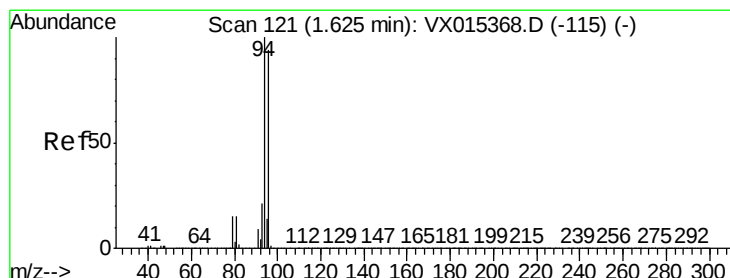
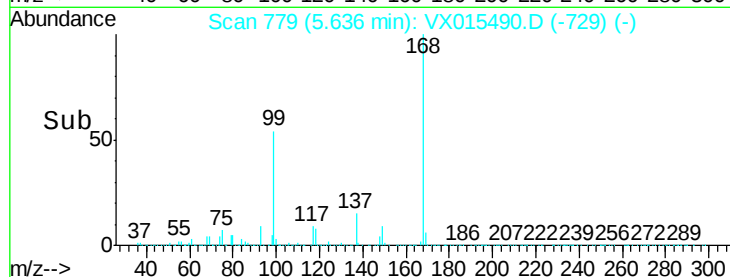
Time-->

5.50

5.60

5.70

5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX015490.D

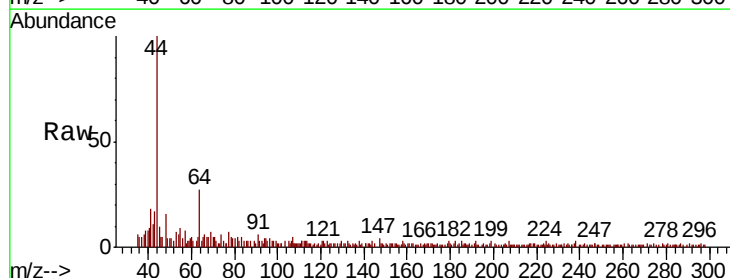
Acq: 02 Apr 2020 18:23

Tgt Ion: 94 Resp: 835

Ion Ratio Lower Upper

94 100

96 2.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

1000

800

600

400

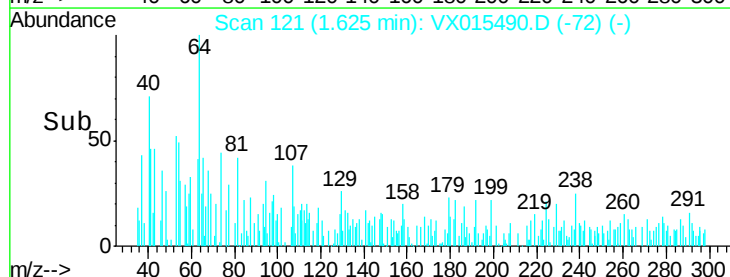
200

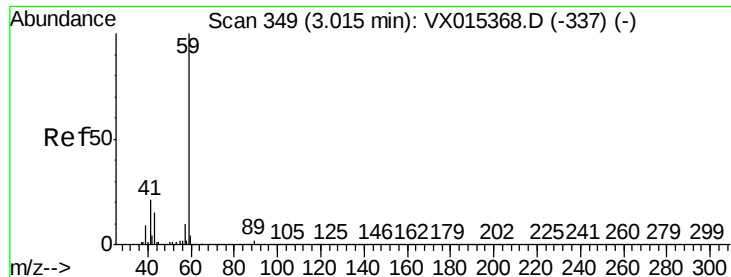
0

Time-->

1.60

1.65

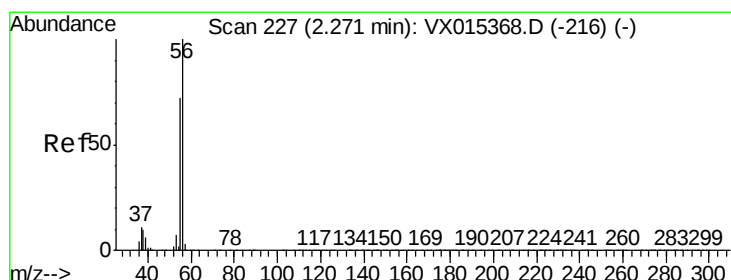
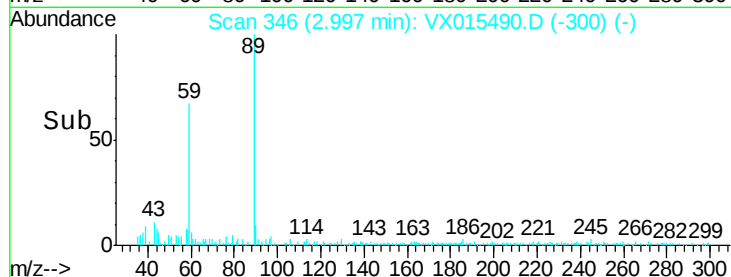
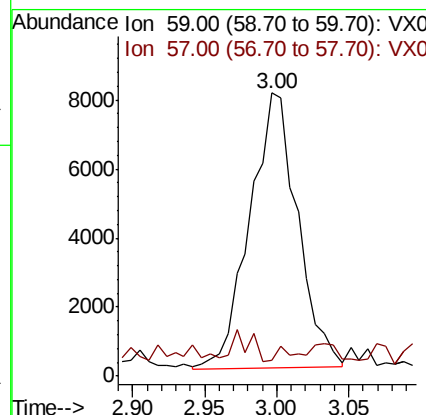
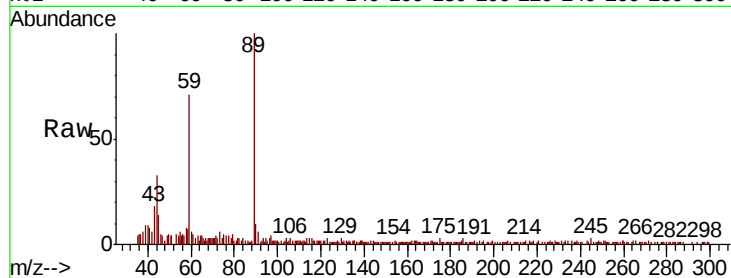




#11
Tert butyl alcohol
Concen: 5.015 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

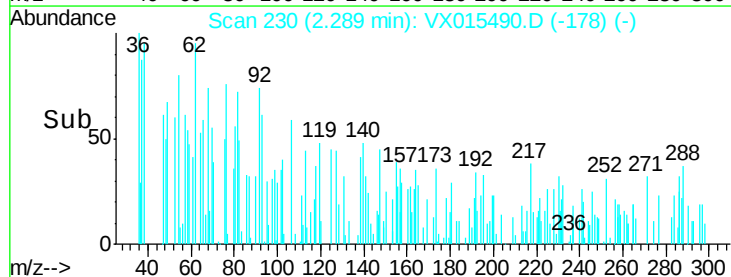
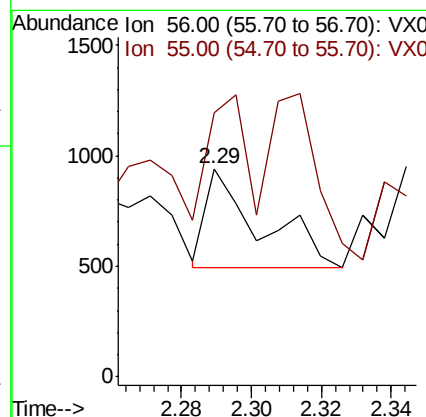
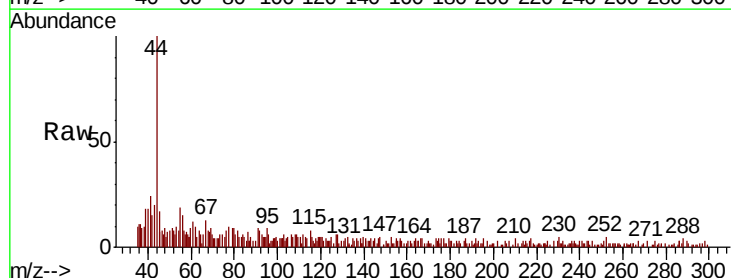
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#12

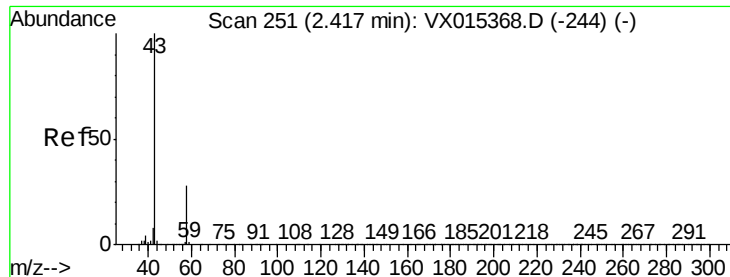
Tot Ion: 59 Resp: 18368
Ion Ratio Lower Upper
59 100
57 2.7 8.1 12.1#



#13
Acrolein
Concen: 0.231 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.02 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

Tgt Ion: 56 Resp: 481
Ion Ratio Lower Upper
56 100
55 83.0 57.0 85.4

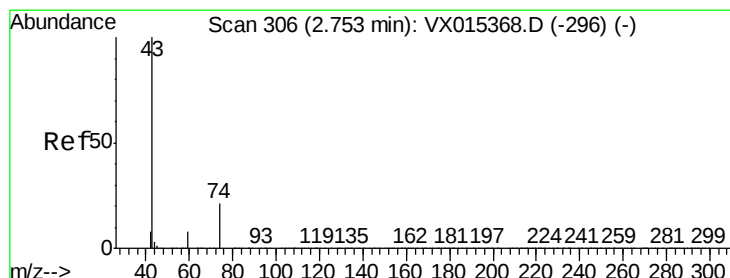
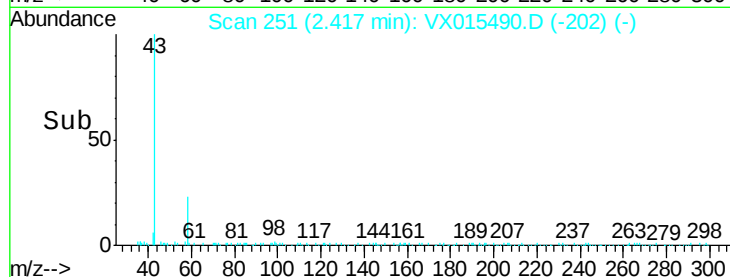
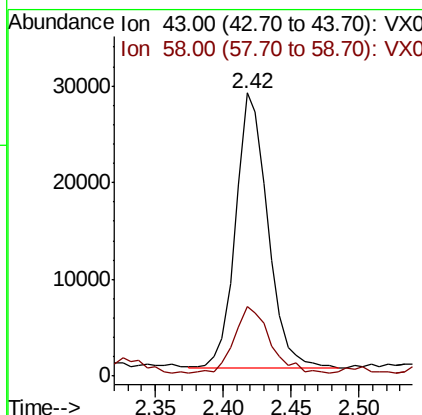
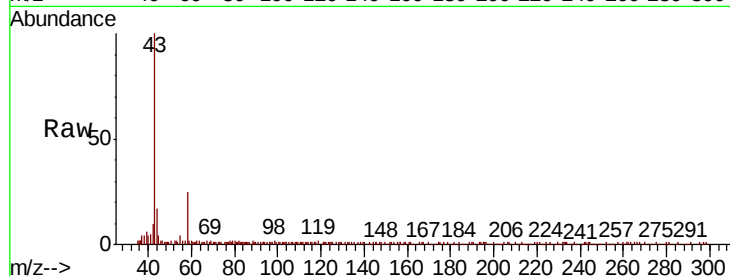




#16
Acetone
Concen: 7.171 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

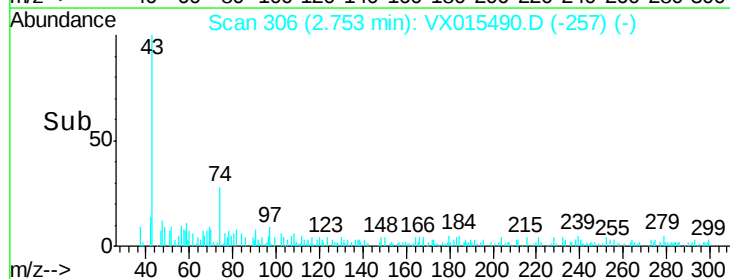
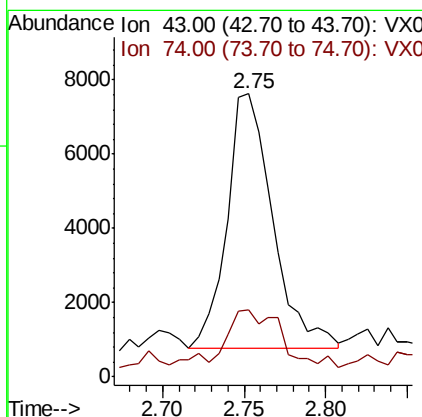
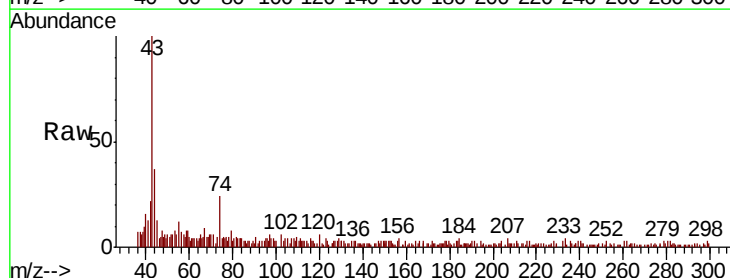
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#12

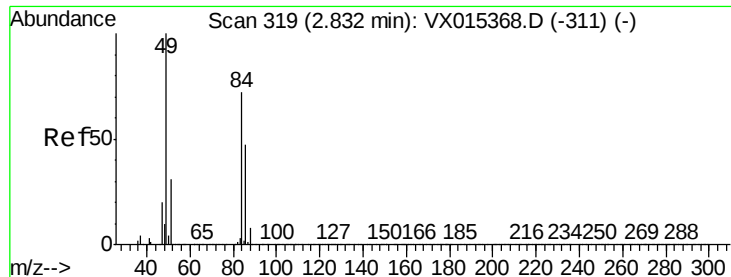
Tot Ion: 43 Resp: 47143
Ion Ratio Lower Upper
43 100
58 24.4 22.1 33.1



#18
Methyl Acetate
Concen: 0.805 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

Tgt Ion: 43 Resp: 13513
Ion Ratio Lower Upper
43 100
74 29.9 16.5 24.7#

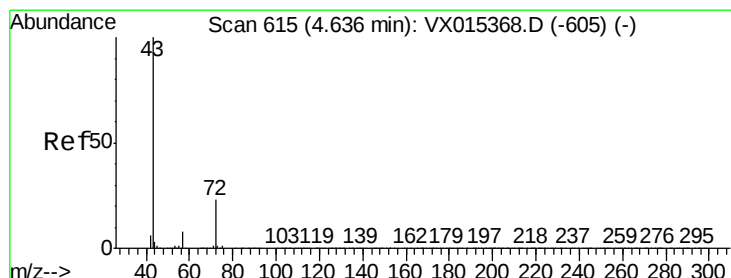
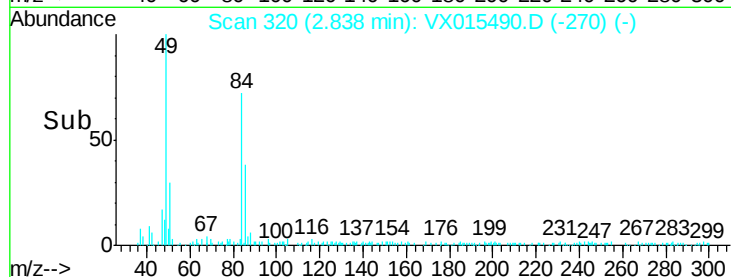
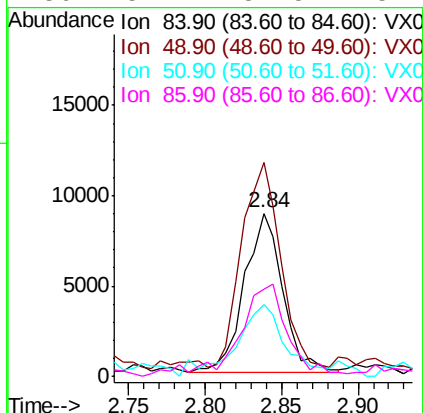
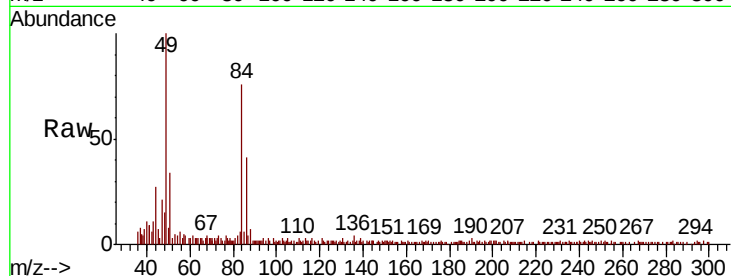




#20
Methvlene Chloride
Concen: 1.252 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

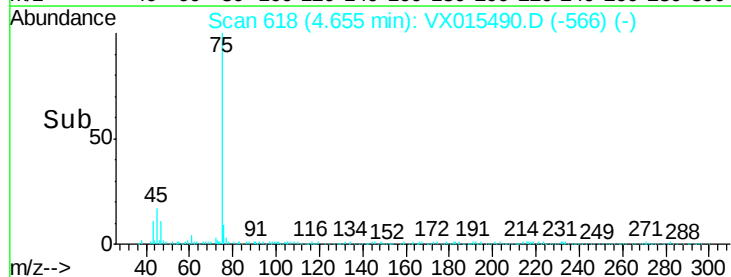
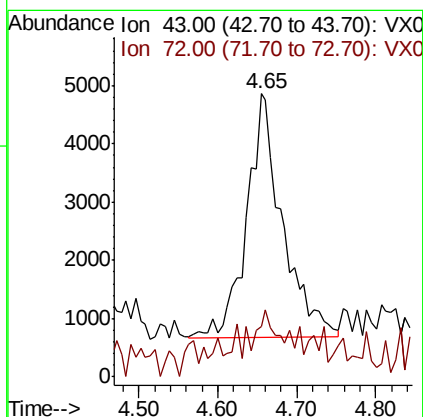
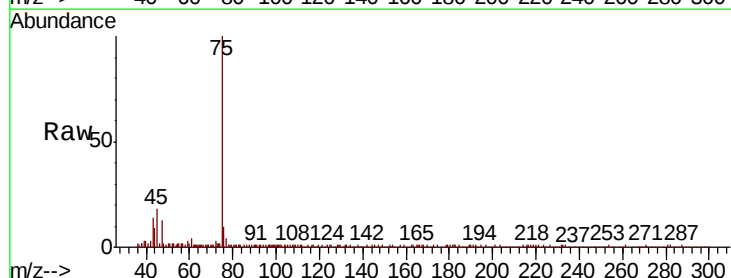
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#12

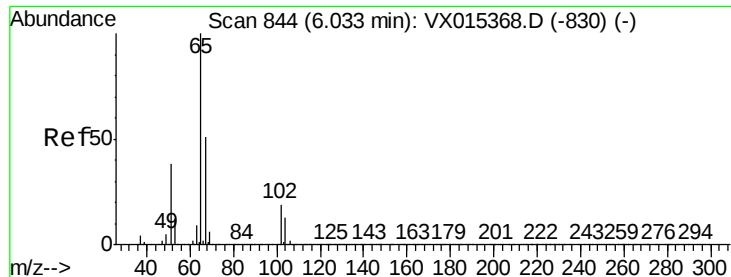
Tot Ion: 84 Resp: 15376
Ion Ratio Lower Upper
84 100
49 125.5 111.3 166.9
51 35.6 34.0 51.0
86 52.4 52.5 78.7#



#25
2-Butanone
Concen: 1.247 ug/l
RT: 4.65 min Scan# 618
Delta R.T. 0.02 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

Tgt Ion: 43 Resp: 13184
Ion Ratio Lower Upper
43 100
72 7.7 19.0 28.4#





#33

1,2-Dichloroethane-d4

Concen: 48.517 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

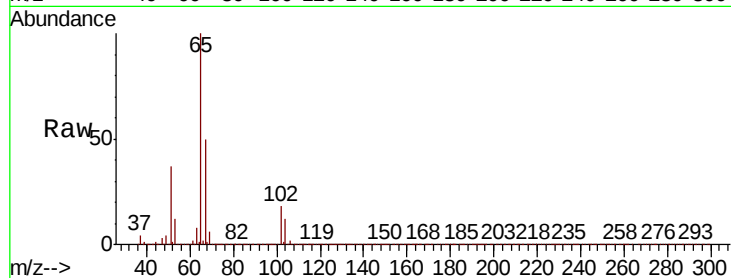
PB127948ZHE#12

Tot Ion: 65 Resp: 742372

Ion Ratio Lower Upper

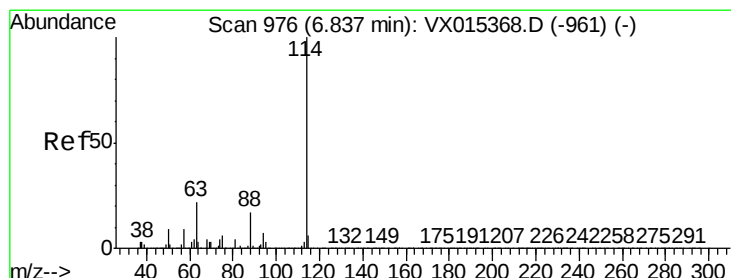
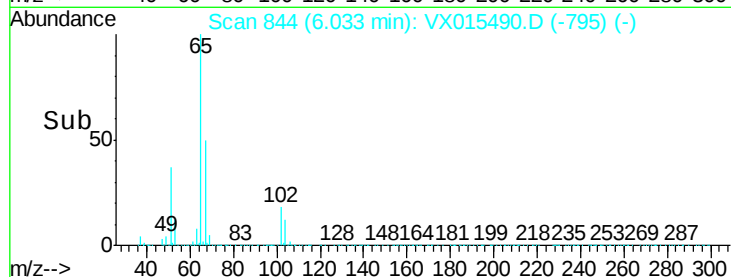
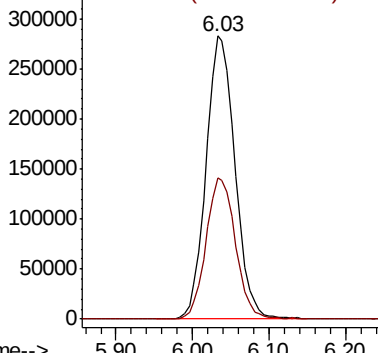
65 100

67 50.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

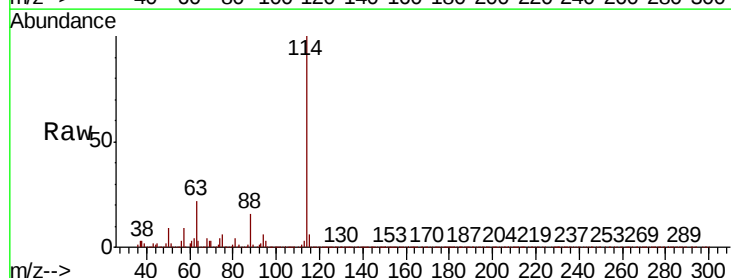
Tgt Ion: 114 Resp: 1778019

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.2

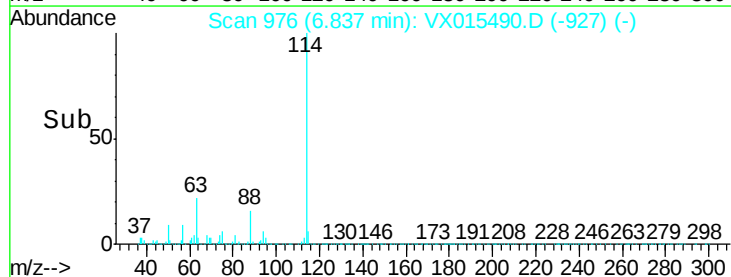
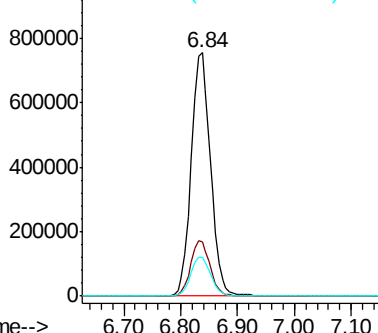
88 16.0 0.0 33.8

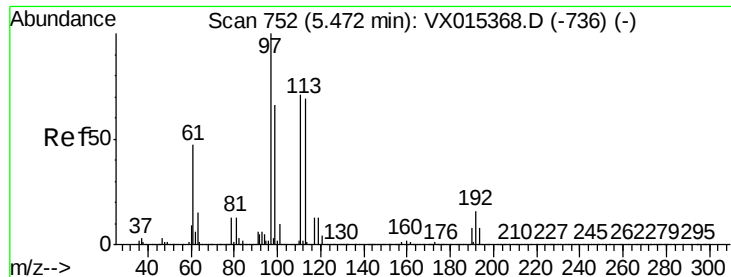


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

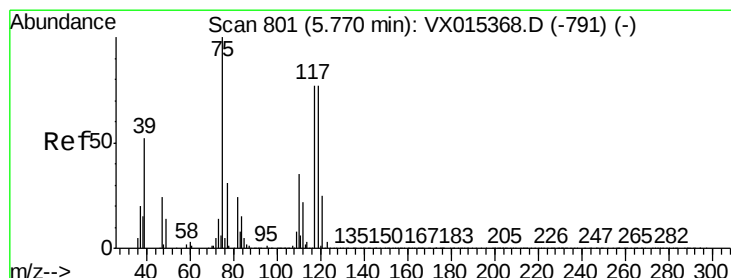
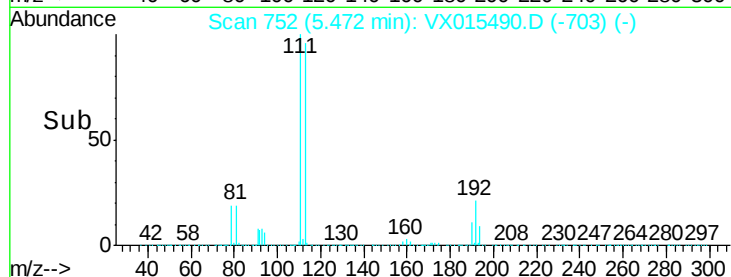
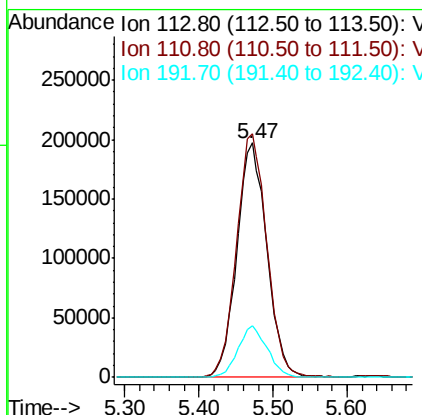
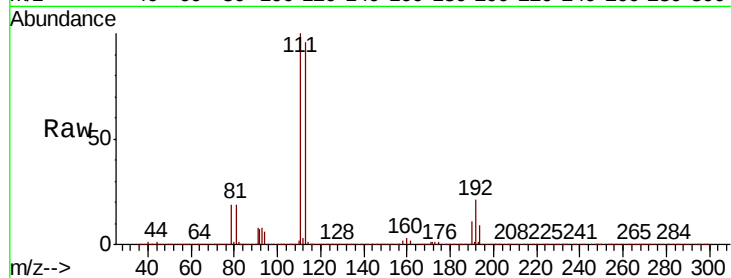




#35
 Dibromofluoromethane
 Concen: 48.966 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015490.D
 Acq: 02 Apr 2020 18:23

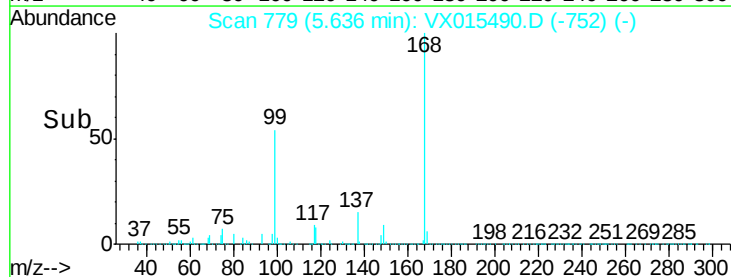
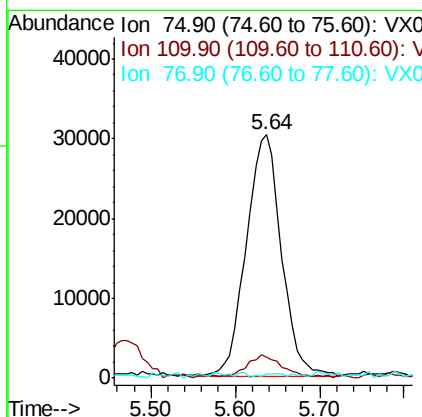
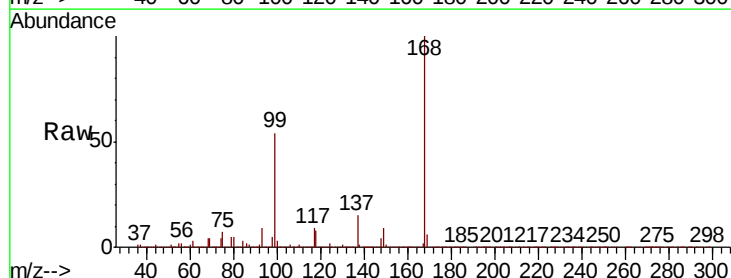
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127948ZHE#12

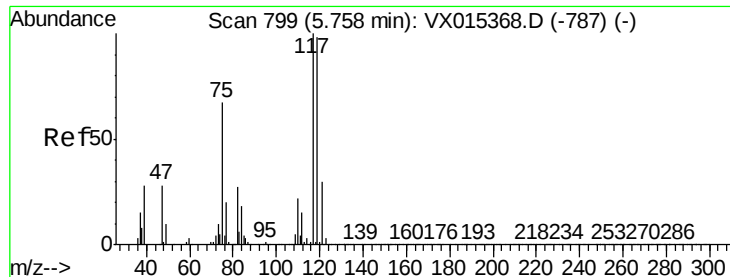
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.5	122.3
192	21.3	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.203 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015490.D
 Acq: 02 Apr 2020 18:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.1	51.3#
77	0.7	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.879 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#12

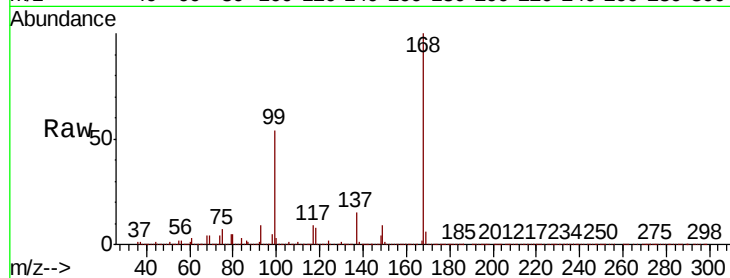
Tot Ion:117 Resp: 104316

Ion Ratio Lower Upper

117 100

119 3.8 78.0 117.0#

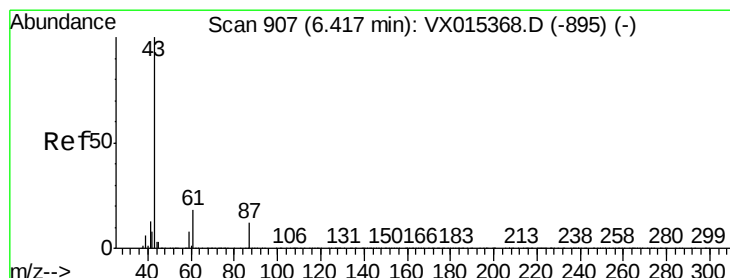
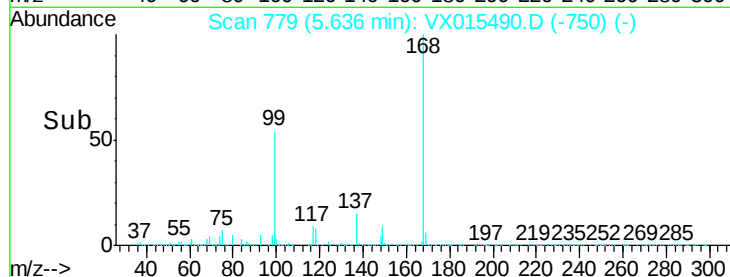
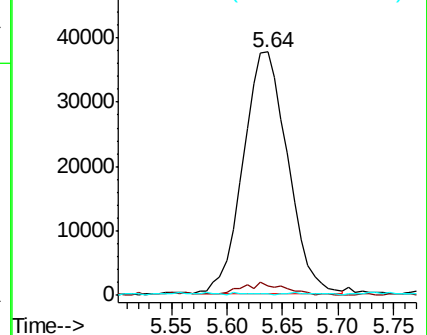
121 0.8 23.8 35.8#



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



#43

Isopropyl Acetate

Concen: 10.609 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

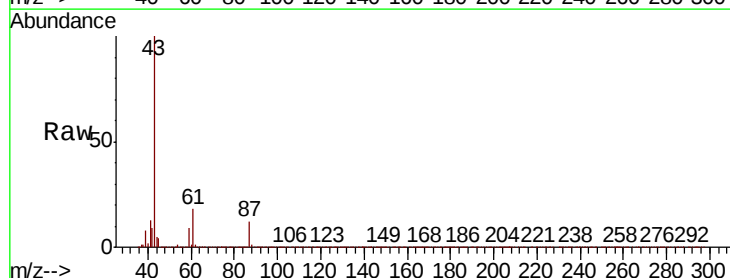
Tgt Ion: 43 Resp: 382031

Ion Ratio Lower Upper

43 100

61 18.3 14.8 22.2

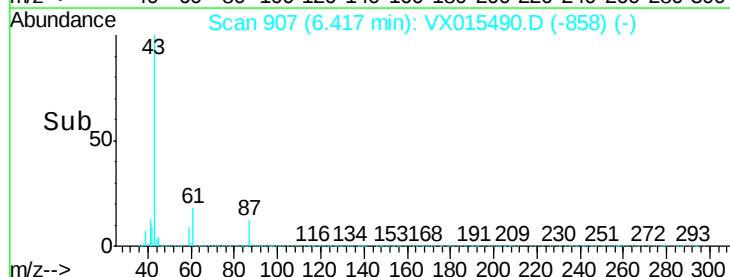
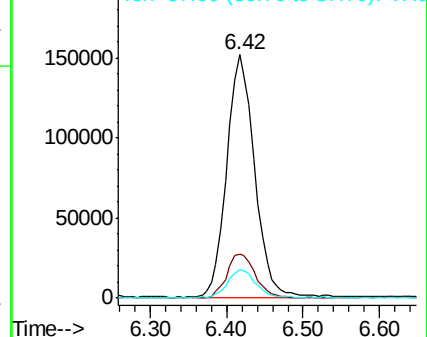
87 12.1 9.4 14.0

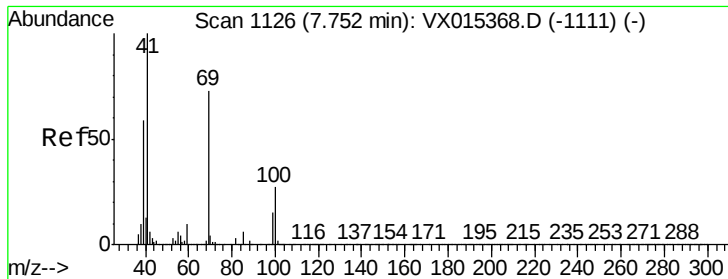


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

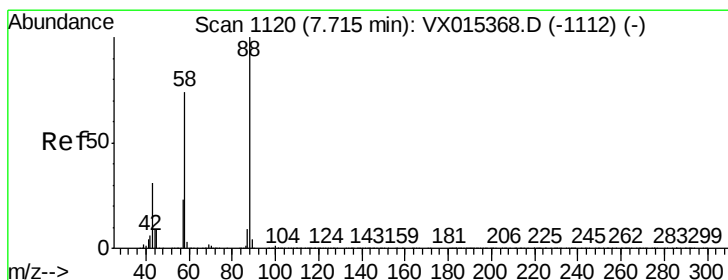
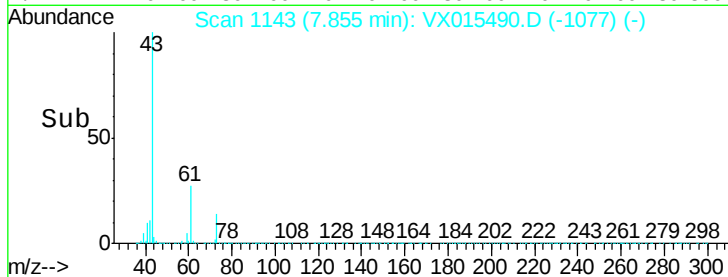
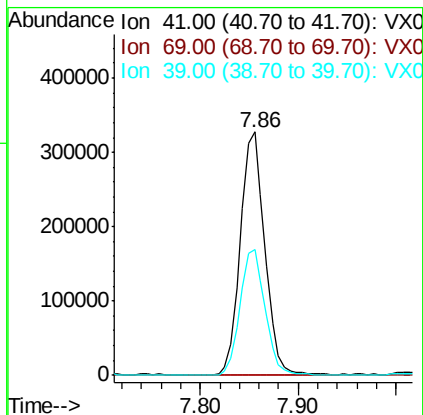
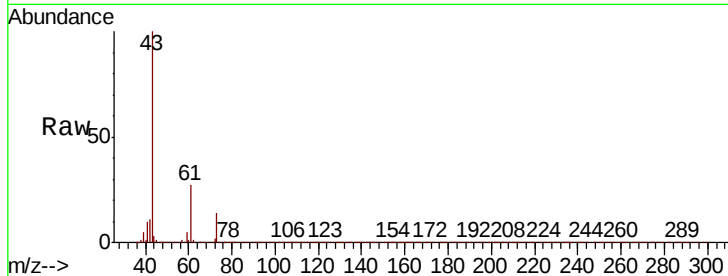




#48
Methvl methacrylate
Concen: 31.493 ug/l
RT: 7.86 min Scan# 1143
Delta R.T. 0.10 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

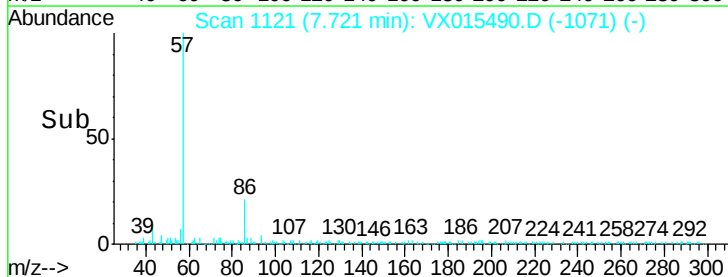
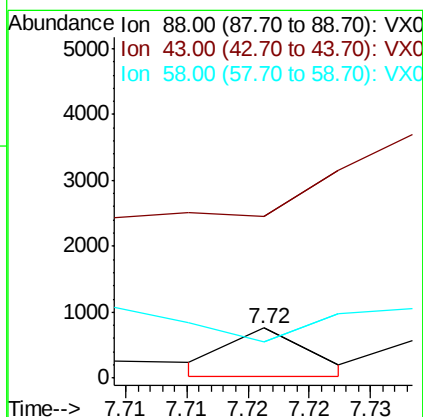
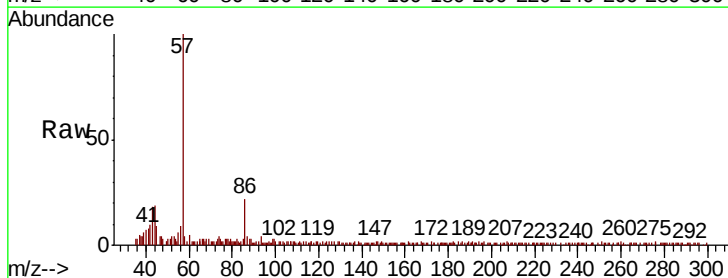
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#12

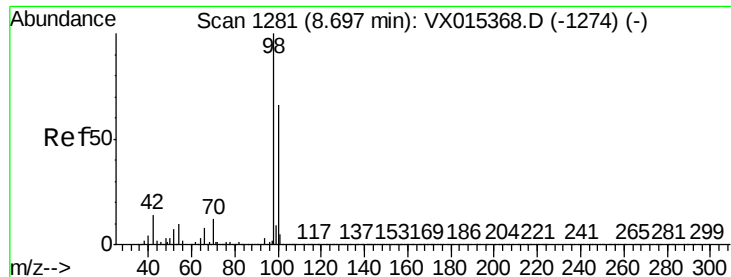
Tot Ion: 41 Resp: 566439
Ion Ratio Lower Upper
41 100
69 0.2 56.7 85.1#
39 52.7 46.5 69.7



#49
1,4-Dioxane
Concen: 0.975 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VX015490.D
Acq: 02 Apr 2020 18:23

Tgt Ion: 88 Resp: 327
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 0.0 60.6 90.8#





#50

Toluene-d8

Concen: 51.070 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

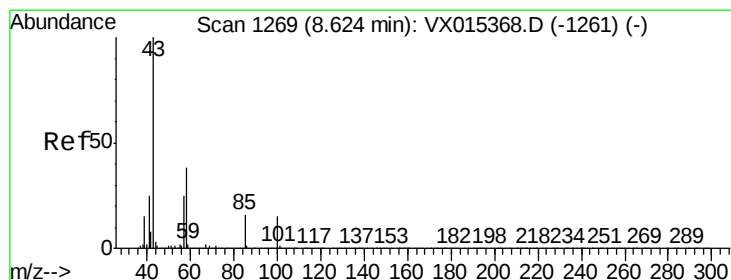
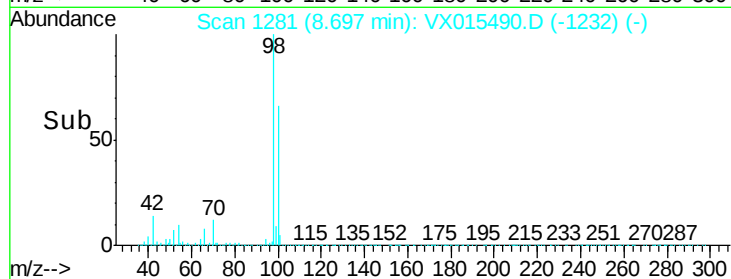
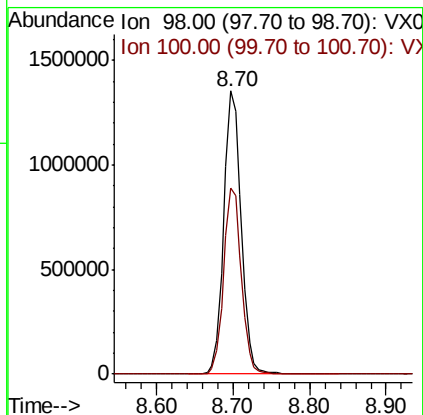
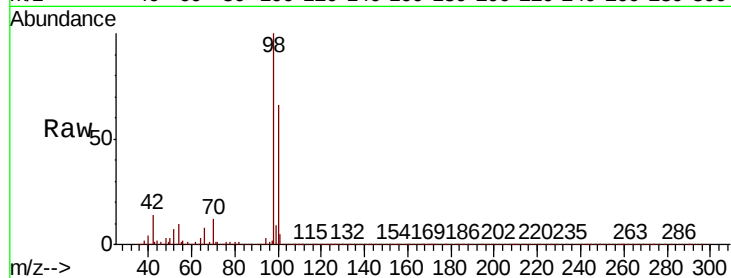
PB127948ZHE#12

Tot Ion: 98 Resp: 2137020

Ion Ratio Lower Upper

98 100

100 66.6 53.5 80.3



#51

4-Methyl-2-Pentanone

Concen: 18.108 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VX015490.D

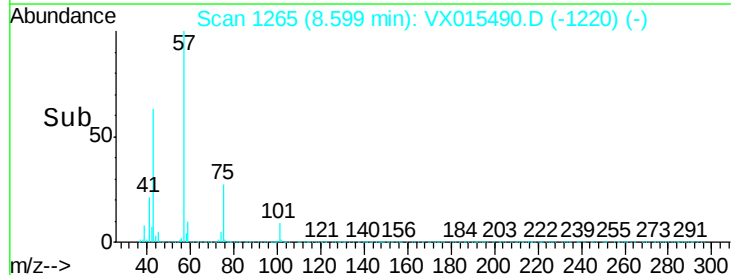
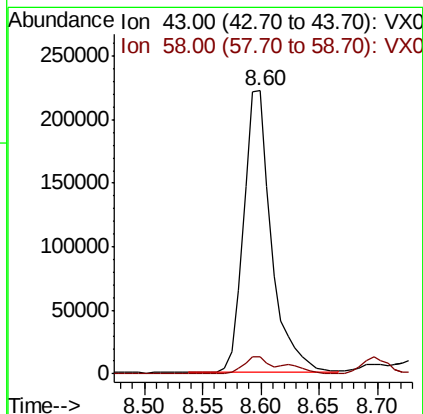
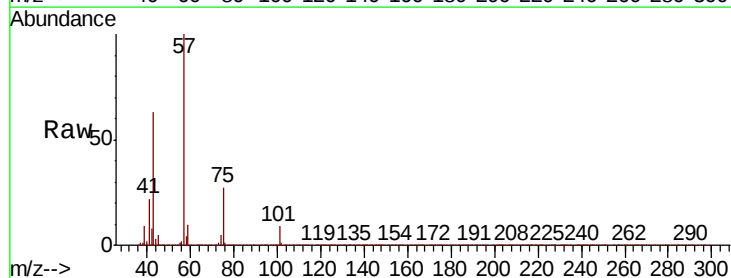
Acq: 02 Apr 2020 18:23

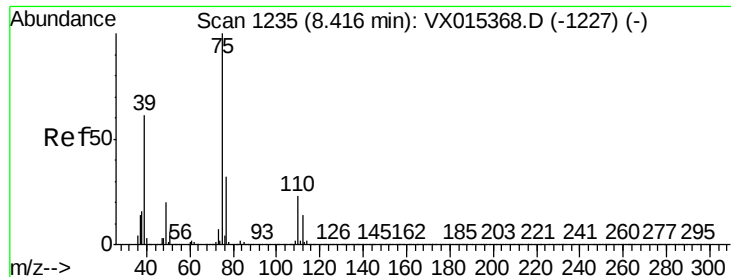
Tgt Ion: 43 Resp: 369532

Ion Ratio Lower Upper

43 100

58 5.3 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 6.688 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#12

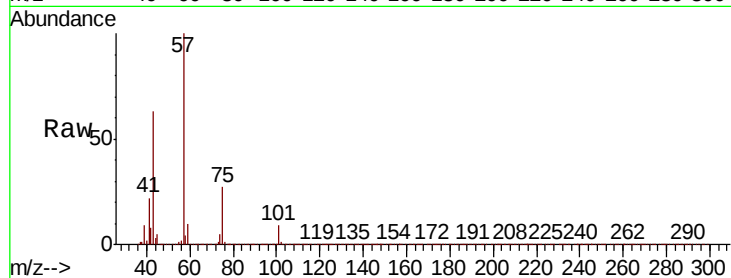
Tot Ion: 75 Resp: 146616

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

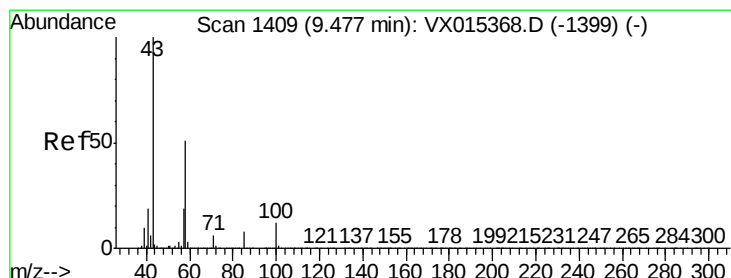
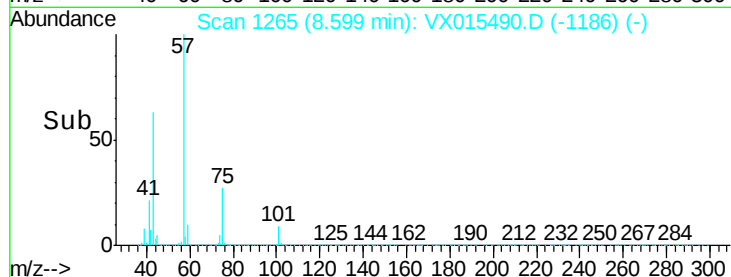
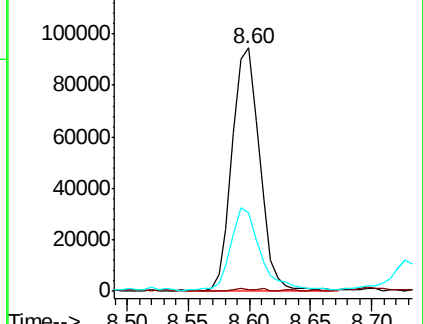
39 31.3 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 25.208 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015490.D

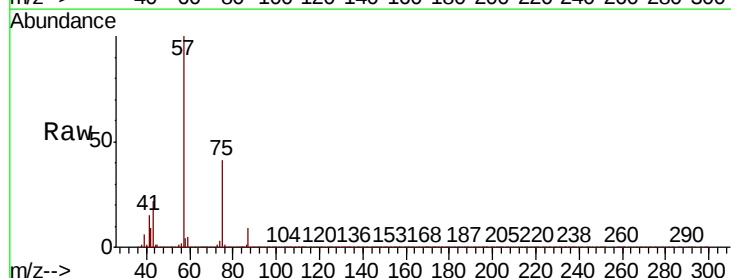
Acq: 02 Apr 2020 18:23

Tgt Ion: 43 Resp: 388377

Ion Ratio Lower Upper

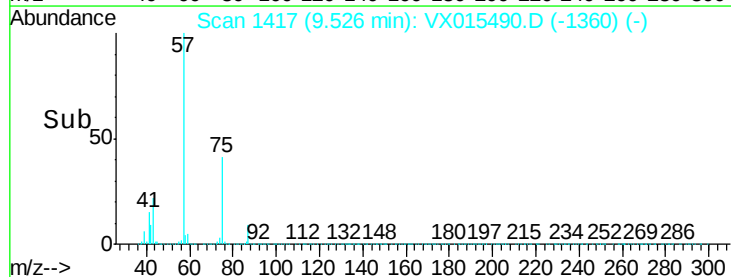
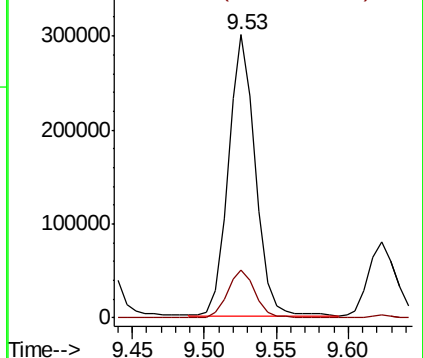
43 100

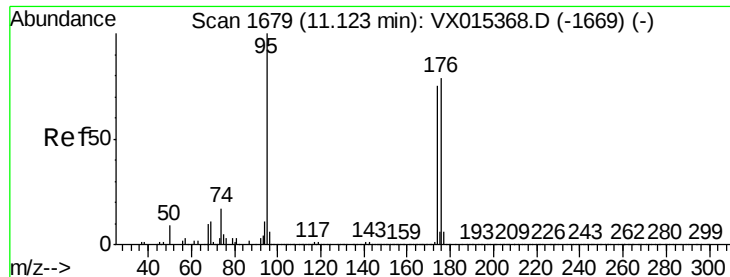
58 17.7 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.755 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#12

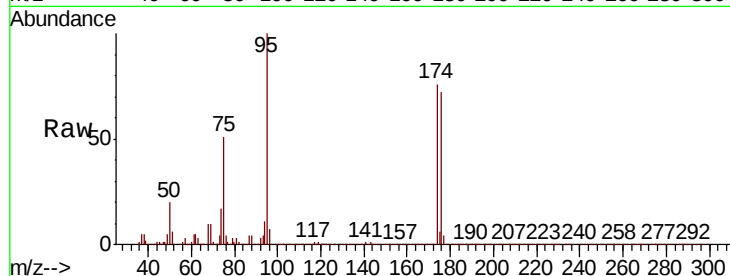
Tot Ion: 95 Resp: 914161

Ion Ratio Lower Upper

95 100

174 78.1 0.0 158.6

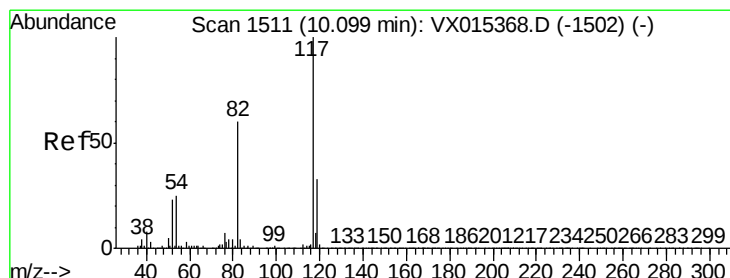
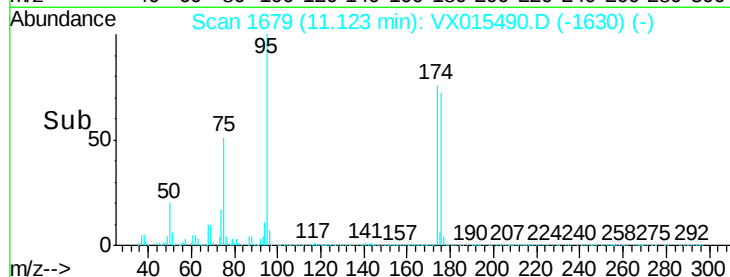
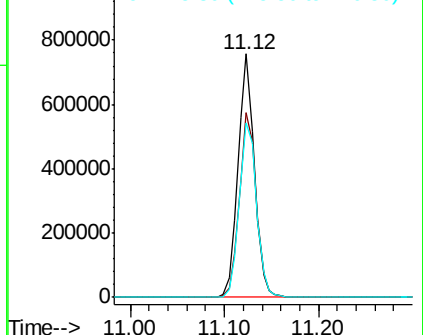
176 75.8 0.0 159.0



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: VX015490.D

Acq: 02 Apr 2020 18:23

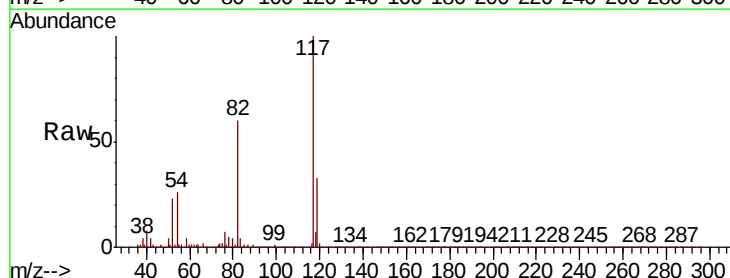
Tgt Ion: 117 Resp: 1651956

Ion Ratio Lower Upper

117 100

82 60.1 47.8 71.8

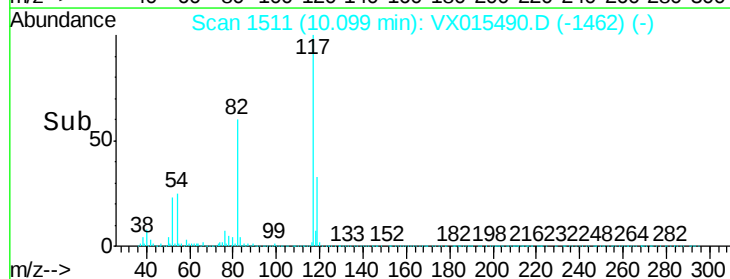
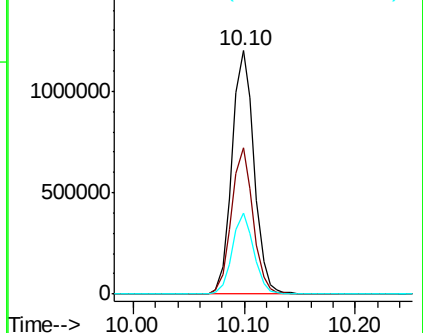
119 33.0 26.8 40.2

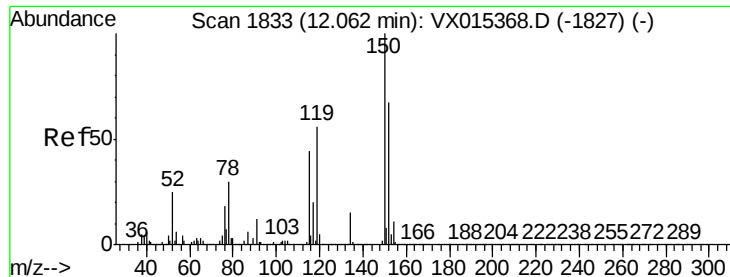


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#12

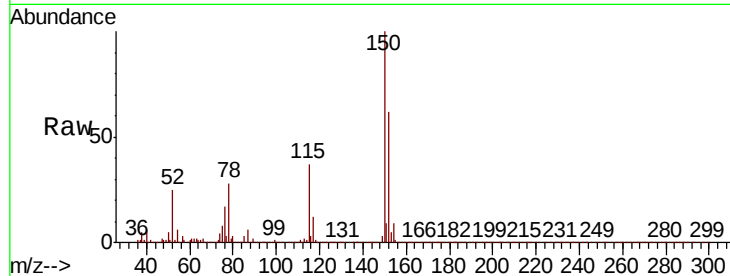
Tot Ion:152 Resp: 869202

Ion Ratio Lower Upper

152 100

115 60.1 39.0 116.9

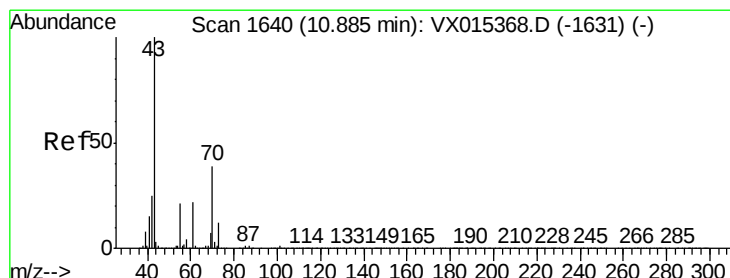
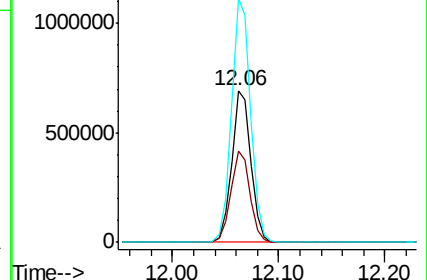
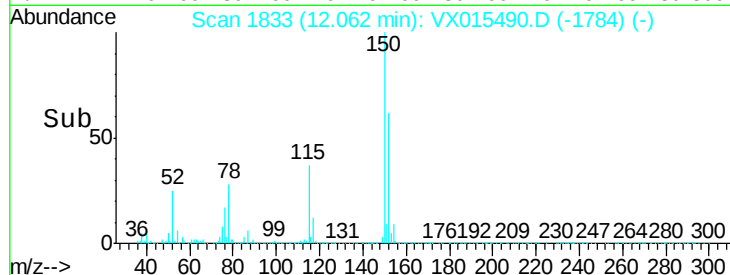
150 160.5 0.0 340.8



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-amyl acetate

Concen: 0.553 ug/l

RT: 10.81 min Scan# 1628

Delta R.T. -0.07 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Tgt Ion: 43 Resp: 17518

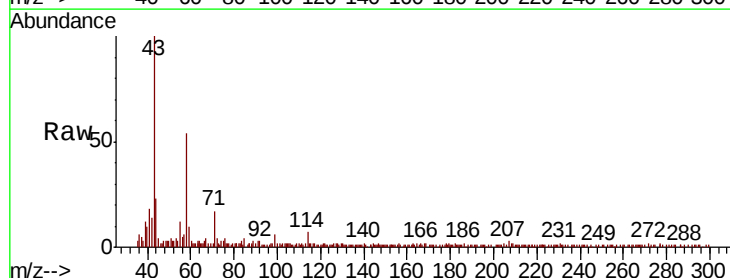
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 11.3 16.8 25.2#

61 0.0 18.2 27.2#

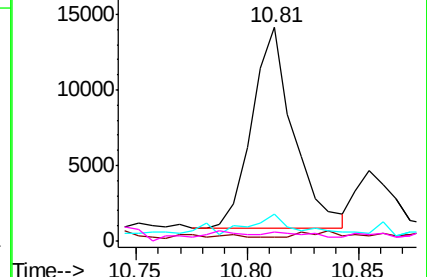
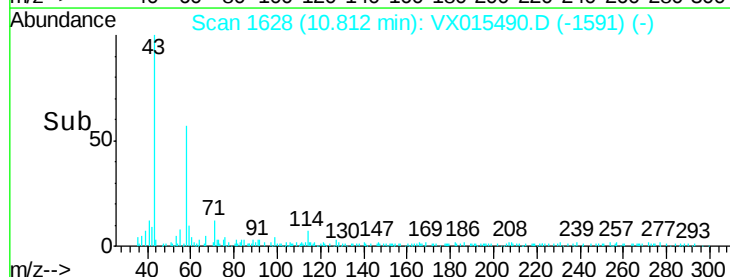


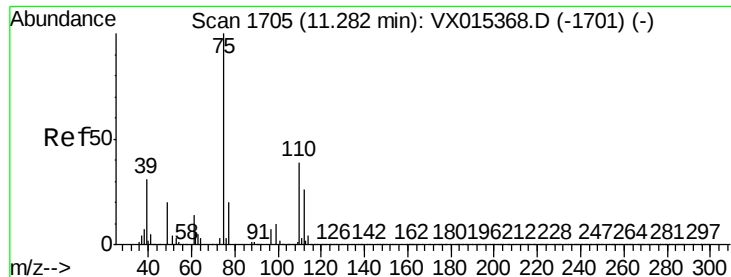
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

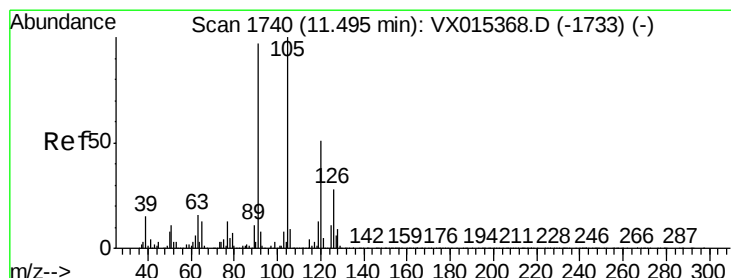
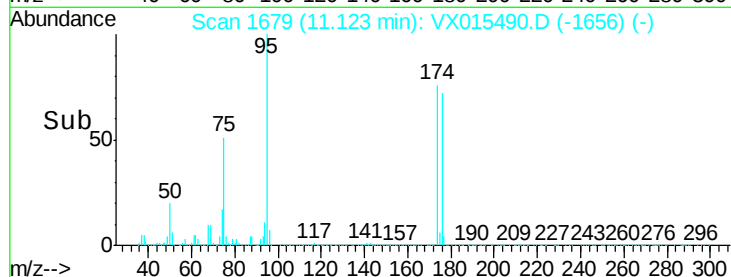
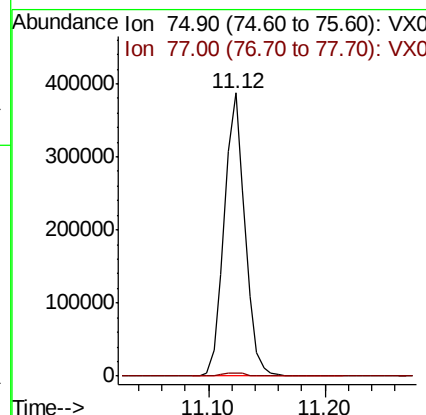
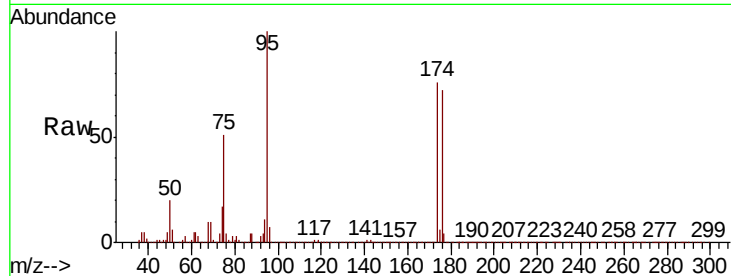




#76
 1,2,3-Trichloropropane
 Concen: 26.380 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015490.D
 Acq: 02 Apr 2020 18:23

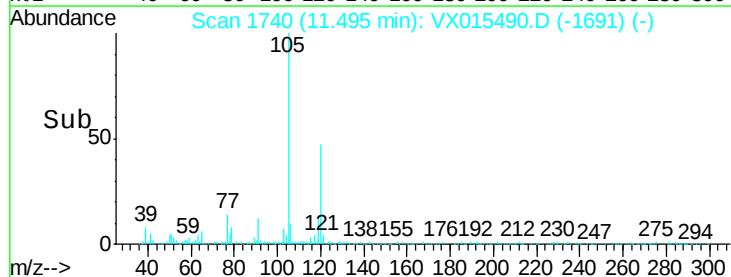
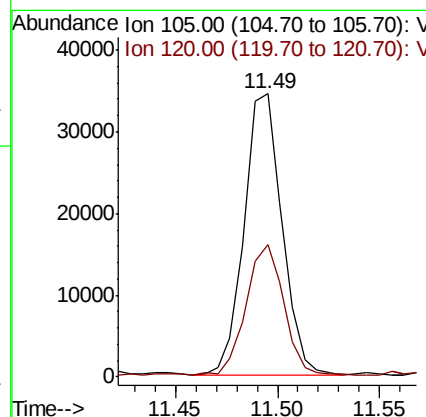
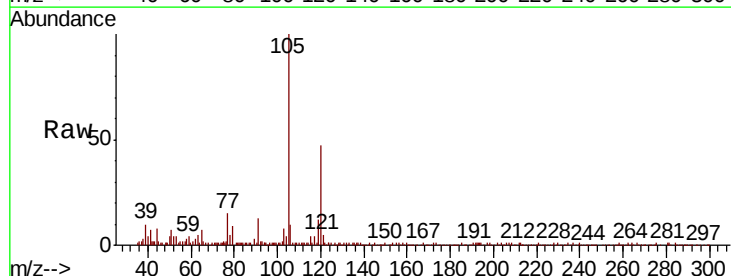
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127948ZHE#12

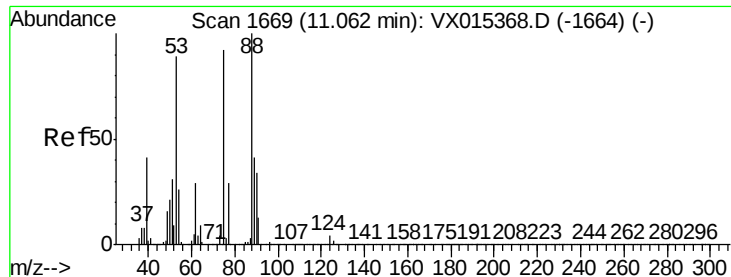
Tot Ion: 75 Resp: 471520
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.2 63.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.911 ug/l
 RT: 11.49 min Scan# 1740
 Delta R.T. -0.00 min
 Lab File: VX015490.D
 Acq: 02 Apr 2020 18:23

Tgt Ion: 105 Resp: 44333
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 63.297 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015490.D

Acq: 02 Apr 2020 18:23

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#12

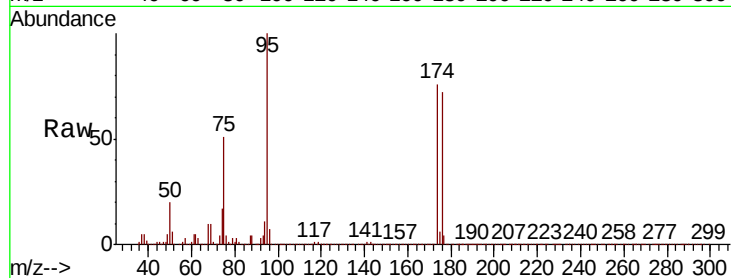
Tot Ion: 75 Resp: 471520

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.1 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

