

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032720\
 Data File : VX015405.D
 Acq On : 28 Mar 2020 01:39
 Operator : JC/SP
 Sample : PB127861ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127861ZHE#01

Quant Time: Mar 30 01:51:16 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	1136591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1872462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1714220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	908012	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	766940	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
35) Dibromofluoromethane	5.47	113	592621	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.70	98	2203699	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	11.12	95	957592	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	

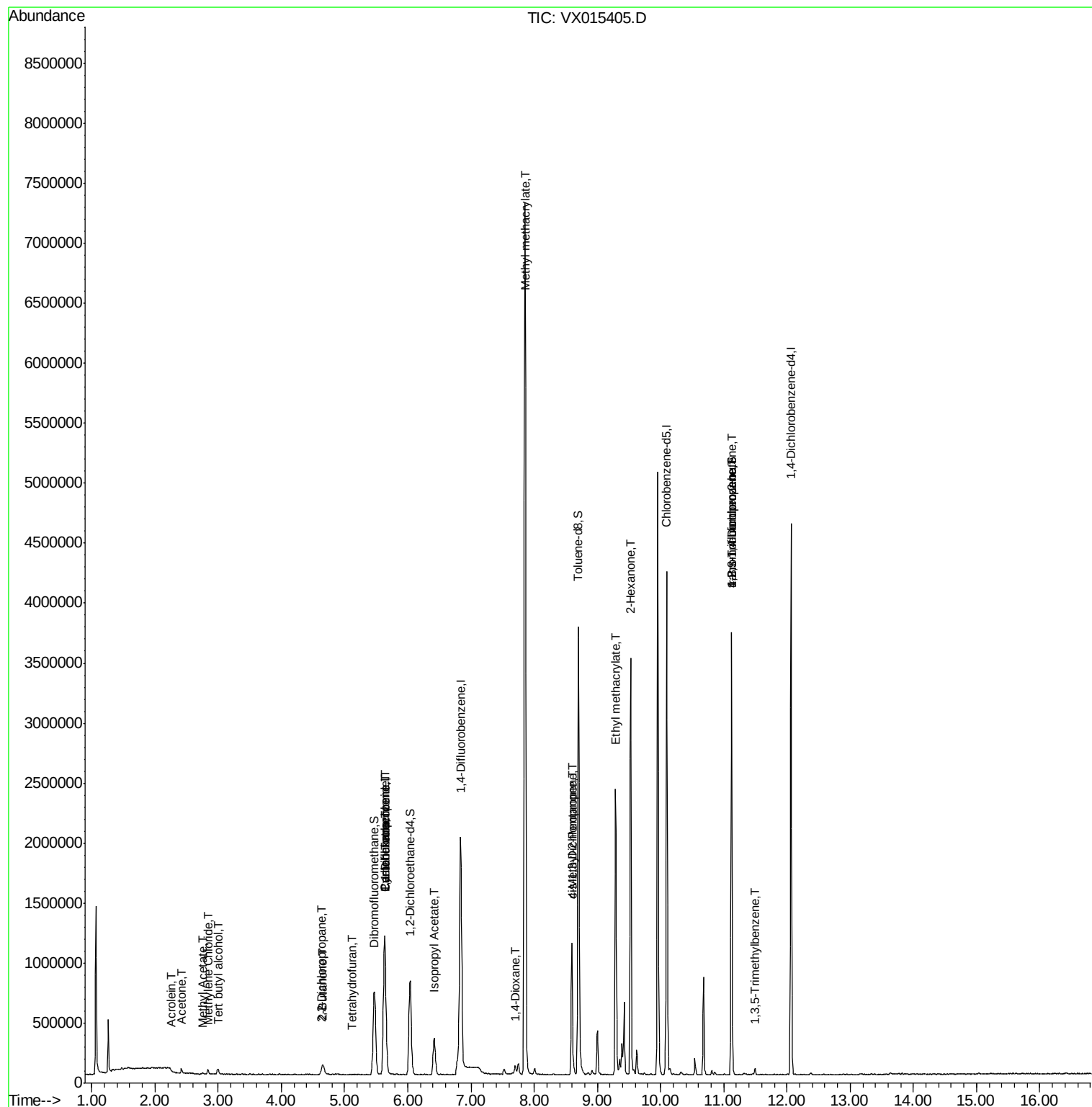
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	881	Below Cal	#	3
11) Tert butyl alcohol	3.00	59	28515	7.432	ug/l #	84
13) Acrolein	2.27	56	597	0.273	ug/l #	27
16) Acetone	2.42	43	43004	6.244	ug/l	99
18) Methyl Acetate	2.75	43	16021	0.911	ug/l #	83
20) Methylene Chloride	2.84	84	16089	1.251	ug/l	87
25) 2-Butanone	4.65	43	15537	1.403	ug/l #	83
26) 2,2-Dichloropropane	4.64	77	4458	0.232	ug/l	88
29) Tetrahydrofuran	5.12	42	1940	0.272	ug/l #	49
31) Cyclohexane	5.63	56	25858	1.274	ug/l #	12
36) 1,1-Dichloropropene	5.64	75	89617	5.194	ug/l #	51
38) Carbon Tetrachloride	5.64	117	110840	5.932	ug/l #	15
43) Isopropyl Acetate	6.42	43	451329	11.902	ug/l	100
48) Methyl methacrylate	7.86	41	635822	33.568	ug/l #	49
49) 1,4-Dioxane	7.70	88	740	2.094	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	425337	19.791	ug/l #	52
54) cis-1,3-Dichloropropene	8.60	75	178138	7.716	ug/l #	52
56) Ethyl methacrylate	9.29	69	4664	0.207	ug/l #	1
59) 2-Hexanone	9.53	43	445597	27.463	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	495031	26.511	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	22346	0.440	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.12	75	495031	63.612	ug/l #	10

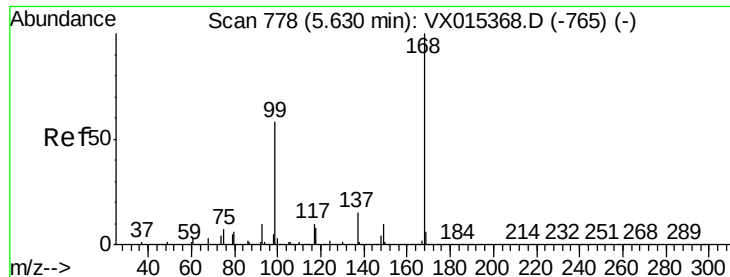
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 30 01:51:16 2020
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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: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

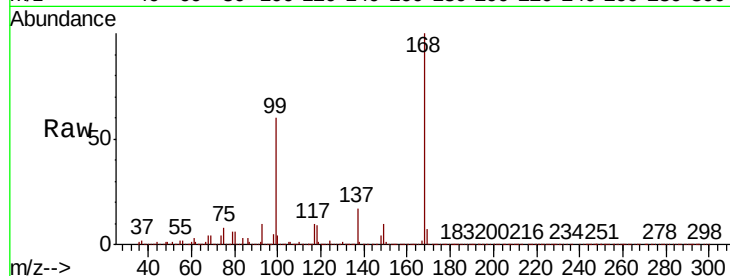
PB127861ZHE#01

Tot Ion:168 Resp: 1136591

Ion Ratio Lower Upper

168 100

99 60.3 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

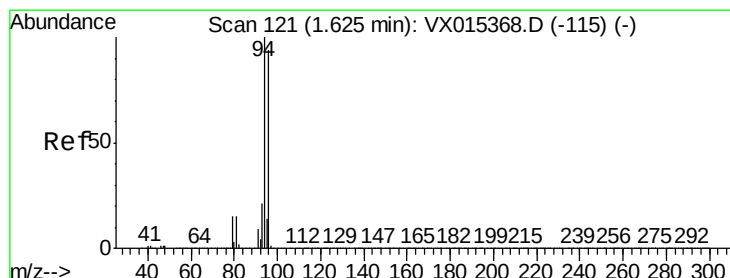
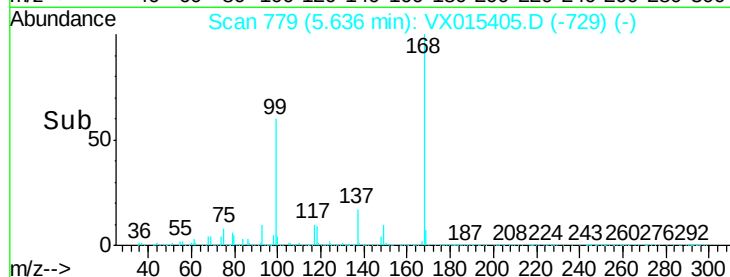
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX015405.D

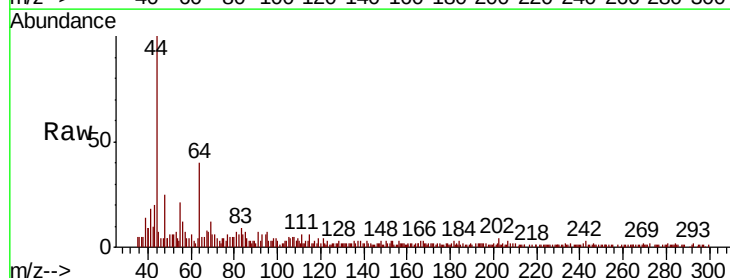
Acq: 28 Mar 2020 01:39

Tgt Ion: 94 Resp: 881

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

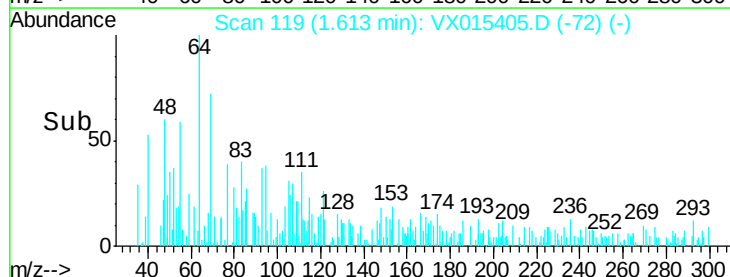
600

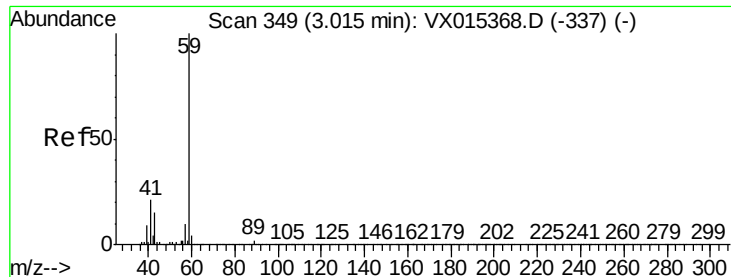
400

200

0

Time-->



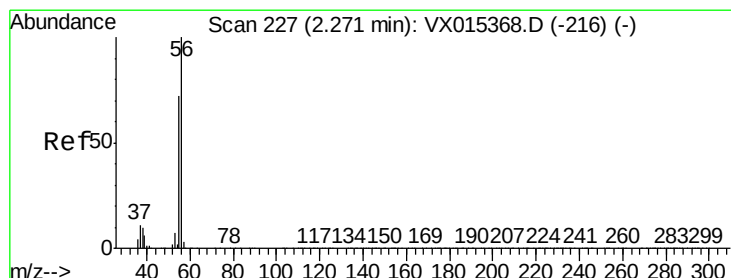
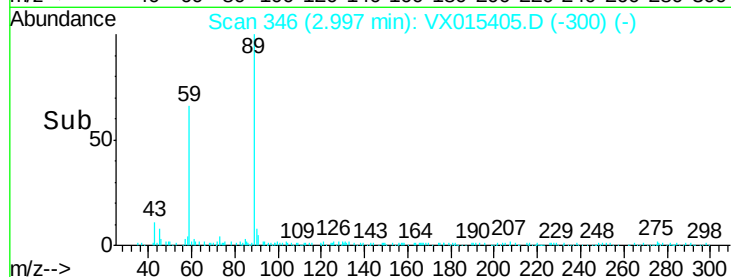
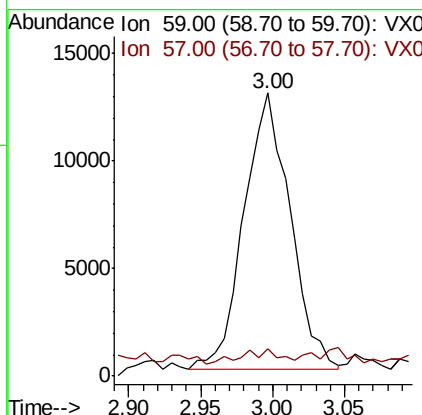
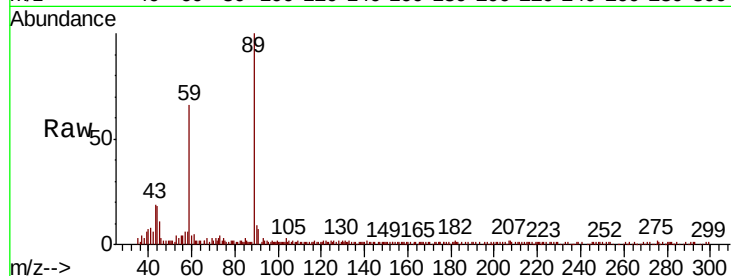


#11

Tert butyl alcohol
Concen: 7.432 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

Instrument :
MSVOA_X
ClientSampleId :
PB127861ZHE#01

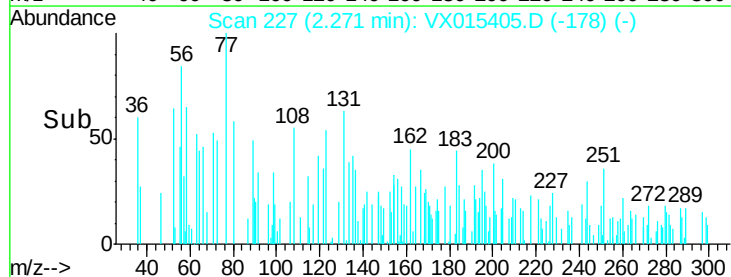
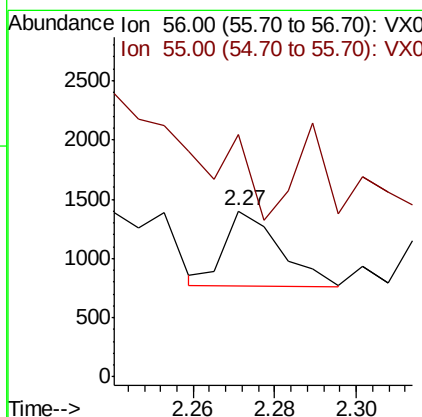
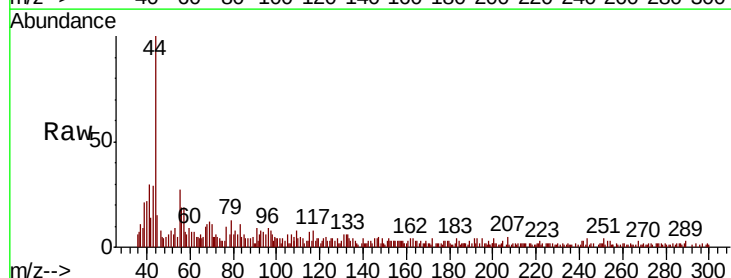
Tot Ion: 59 Resp: 28515
Ion Ratio Lower Upper
59 100
57 4.2 8.1 12.1#

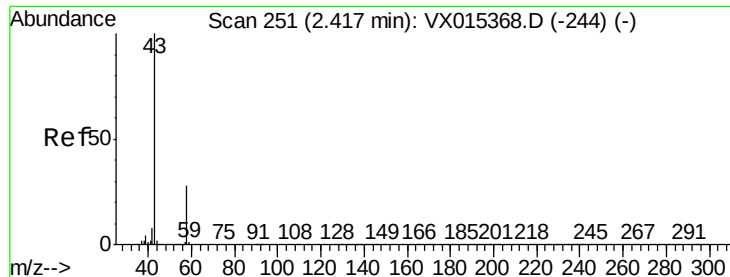


#13

Acrolein
Concen: 0.273 ug/l
RT: 2.27 min Scan# 227
Delta R.T. 0.00 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

Tgt Ion: 56 Resp: 597
Ion Ratio Lower Upper
56 100
55 131.8 57.0 85.4#

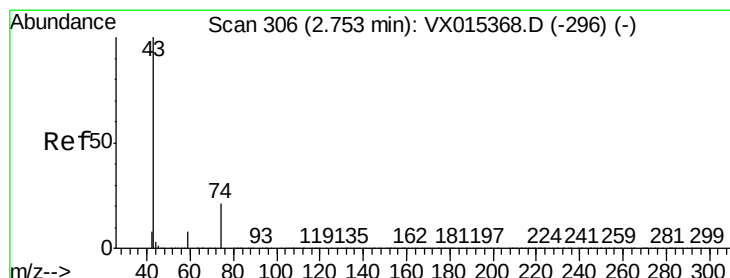
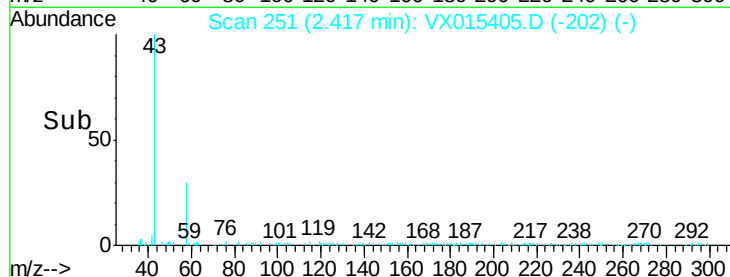
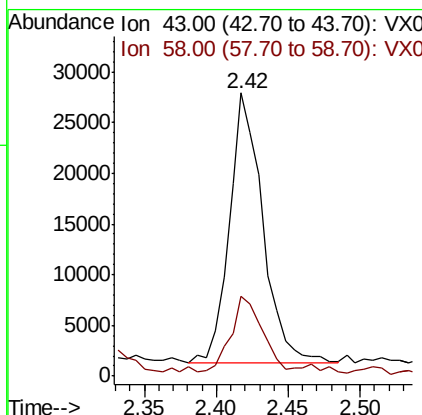
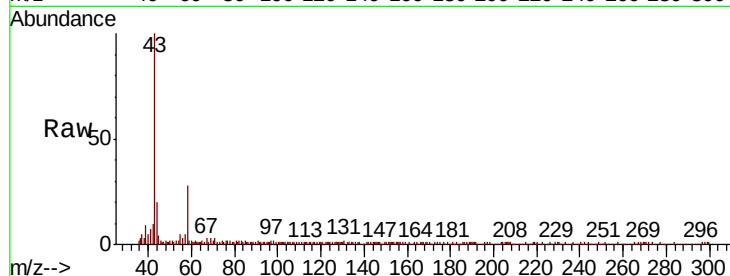




#16
Acetone
Concen: 6.244 ug/l
RT: 2.42 min Scan# 251
Delta R.T. 0.00 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

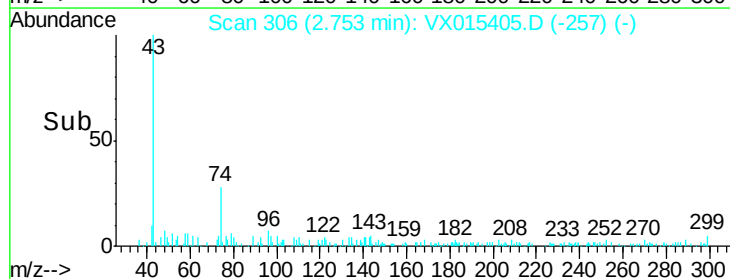
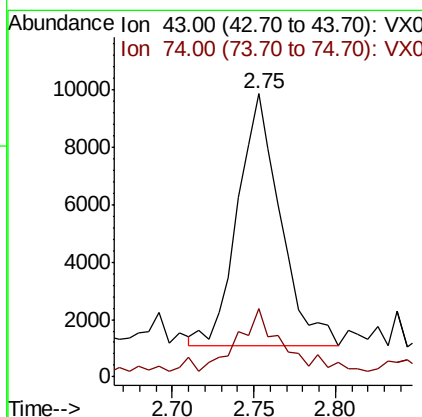
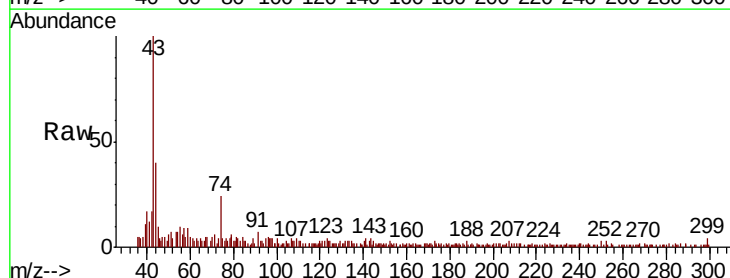
Instrument :
MSVOA_X
ClientSampleId :
PB127861ZHE#01

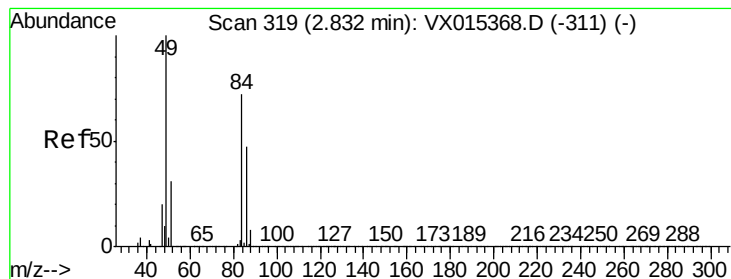
Tot Ion: 43 Resp: 43004
Ion Ratio Lower Upper
43 100
58 28.0 22.1 33.1



#18
Methyl Acetate
Concen: 0.911 ug/l
RT: 2.75 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

Tgt Ion: 43 Resp: 16021
Ion Ratio Lower Upper
43 100
74 28.7 16.5 24.7#





#20

Methylene Chloride

Concen: 1.251 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.01 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

Tot Ion: 84 Resp: 16089

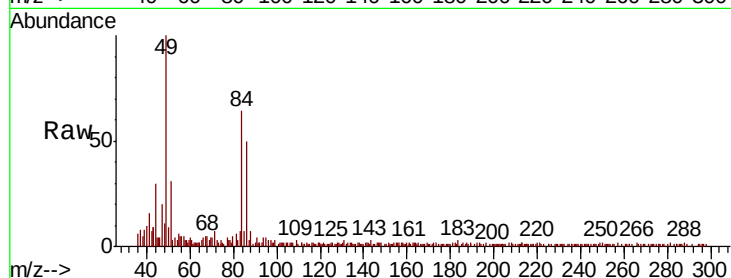
Ion Ratio Lower Upper

84 100

49 157.1 111.3 166.9

51 46.2 34.0 51.0

86 76.0 52.5 78.7

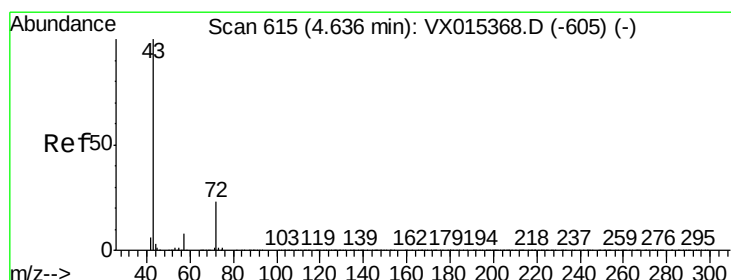
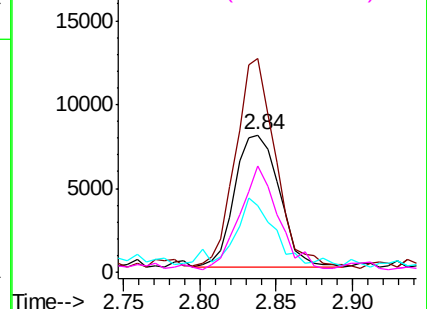
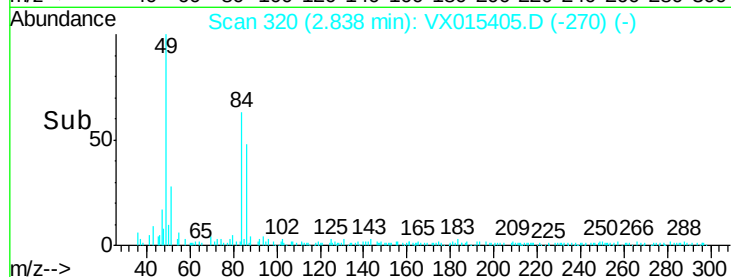


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.403 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015405.D

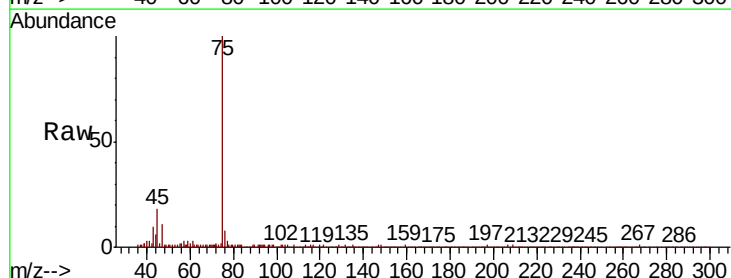
Acq: 28 Mar 2020 01:39

Tgt Ion: 43 Resp: 15537

Ion Ratio Lower Upper

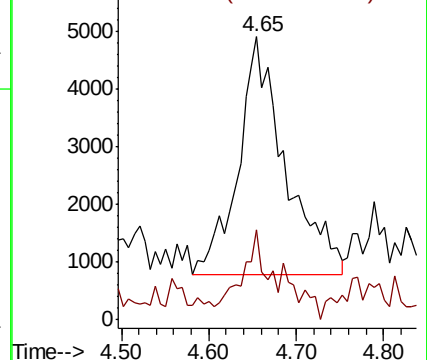
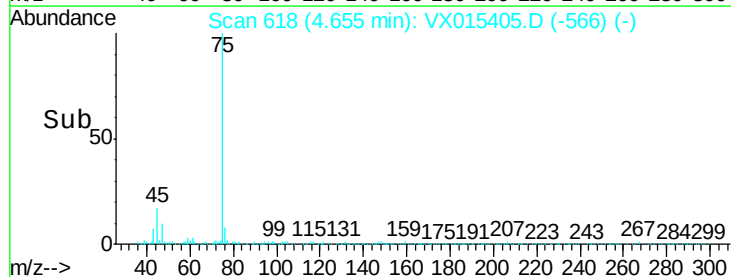
43 100

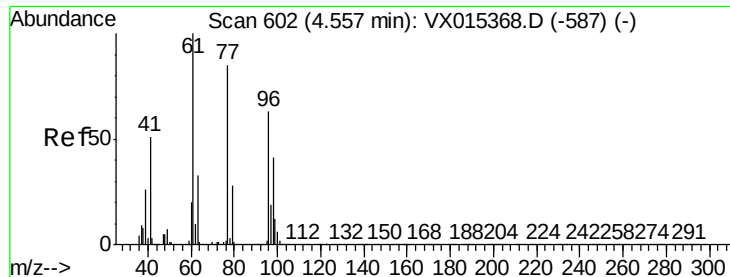
72 31.9 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

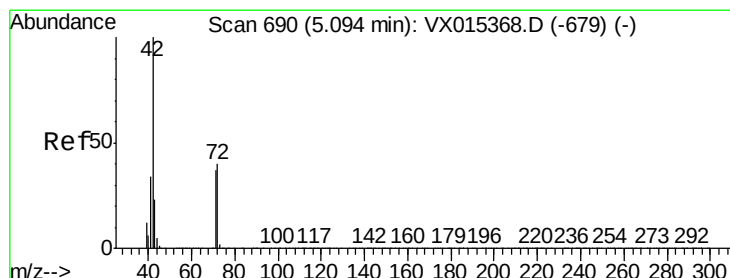
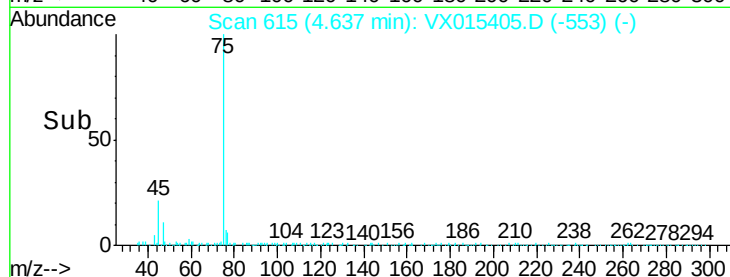
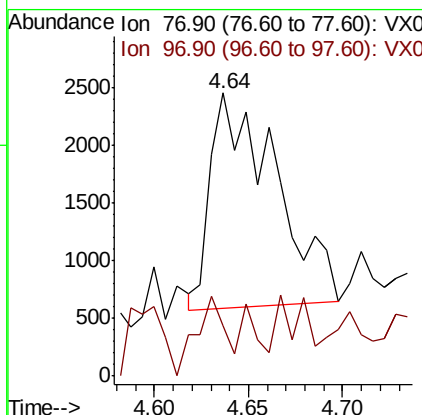
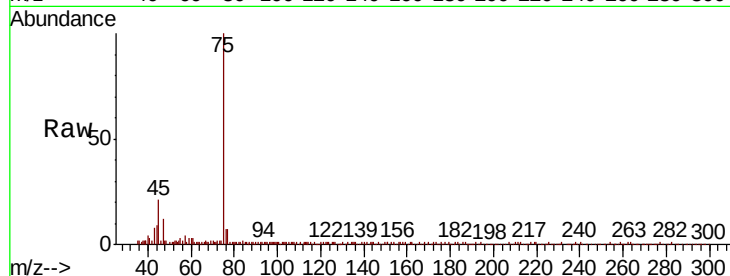




#26
2,2-Dichloropropane
Concen: 0.232 ug/l
RT: 4.64 min Scan# 615
Delta R.T. 0.08 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

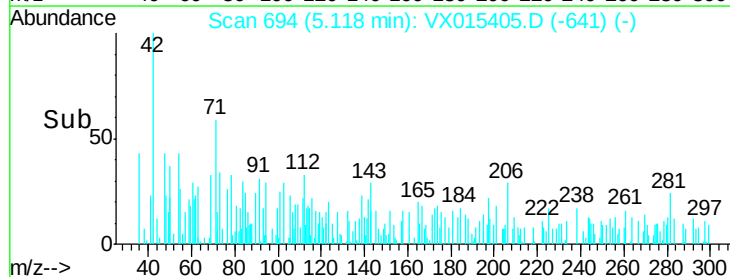
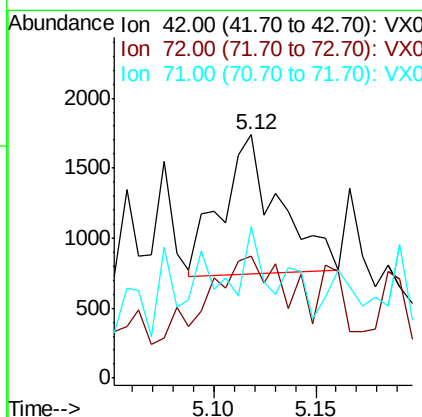
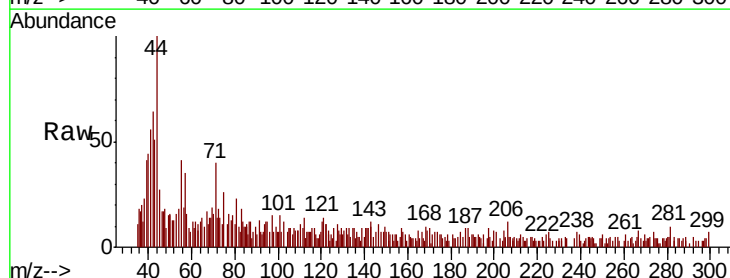
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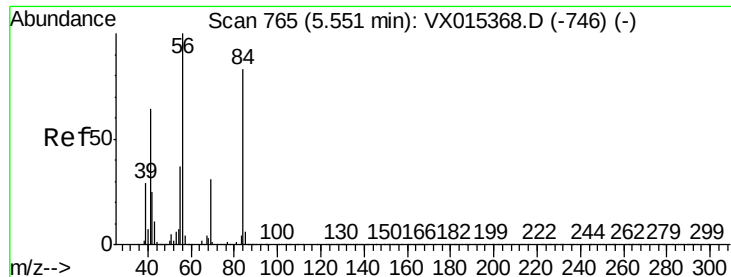
Tot Ion: 77 Resp: 4458
Ion Ratio Lower Upper
77 100
97 16.6 11.3 33.8



#29
Tetrahydrofuran
Concen: 0.272 ug/l
RT: 5.12 min Scan# 694
Delta R.T. 0.02 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

Tgt Ion: 42 Resp: 1940
Ion Ratio Lower Upper
42 100
72 87.9 31.7 47.5#
71 23.8 29.6 44.4#

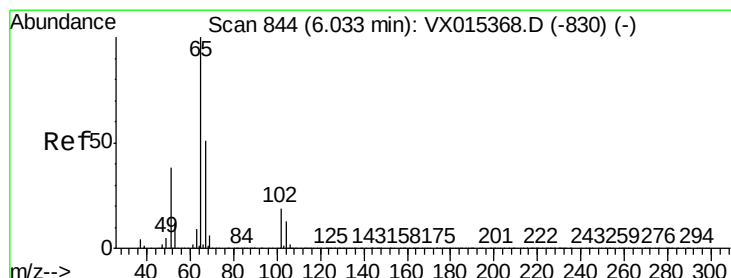
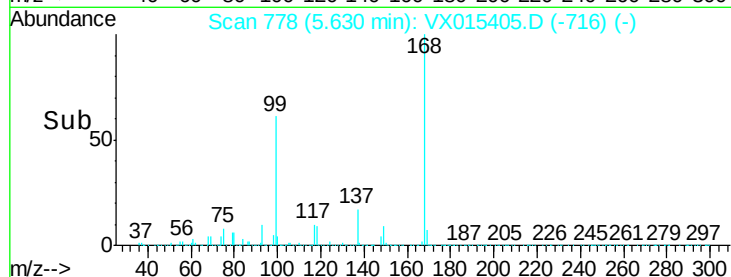
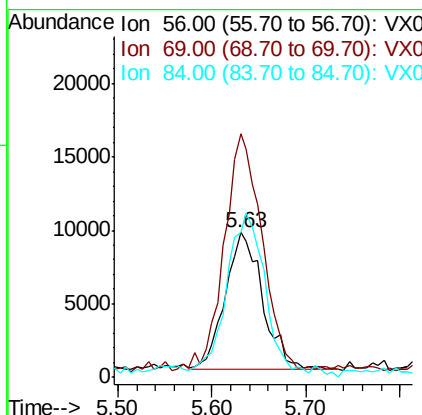
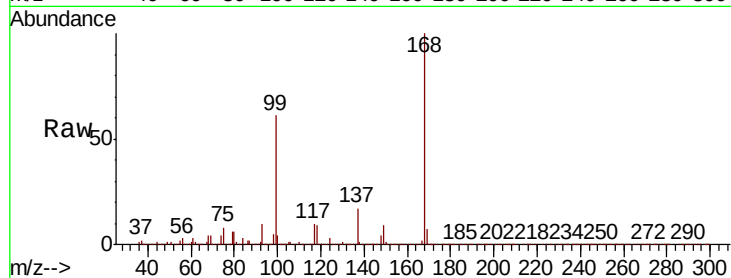




#31
Cyclohexane
Concen: 1.274 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

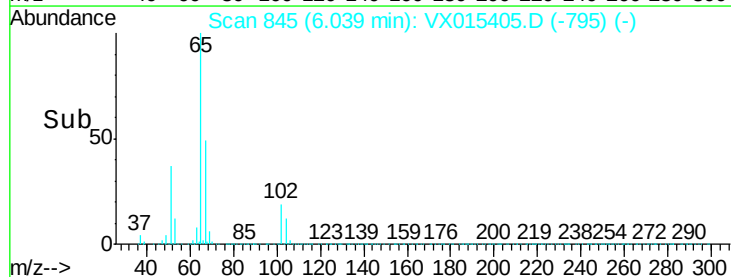
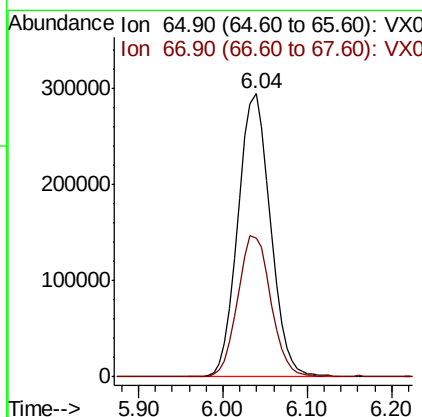
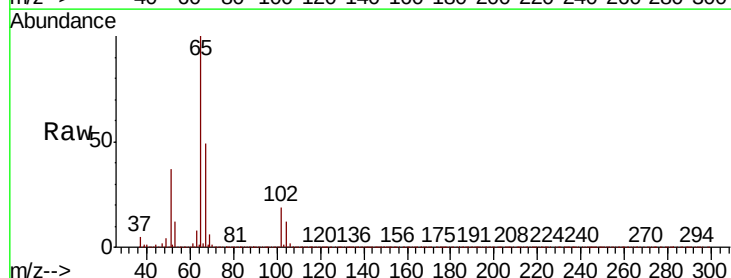
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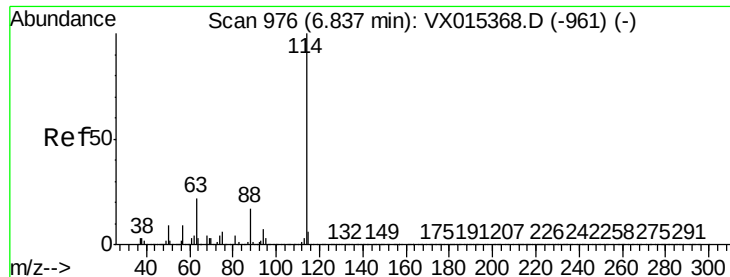
Tot Ion: 56 Resp: 25858
Ion Ratio Lower Upper
56 100
69 170.3 24.6 36.8#
84 105.5 66.1 99.1#



#33
1,2-Dichloroethane-d4
Concen: 47.843 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015405.D
Acq: 28 Mar 2020 01:39

Tgt Ion: 65 Resp: 766940
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6

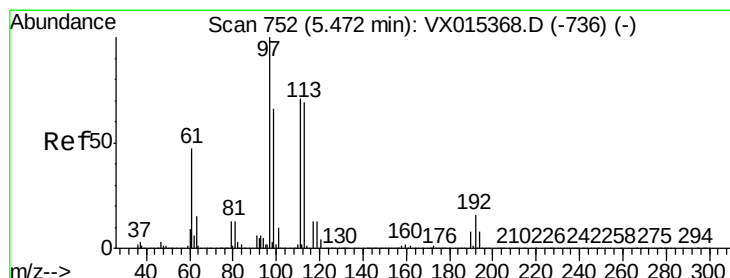
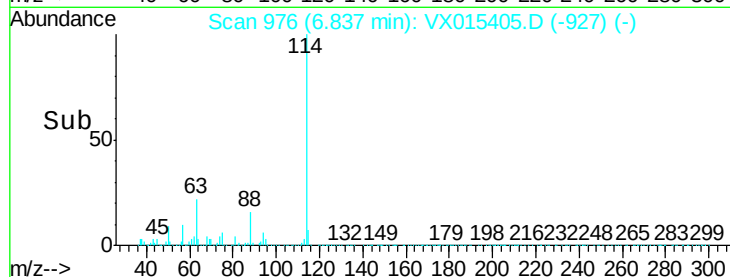
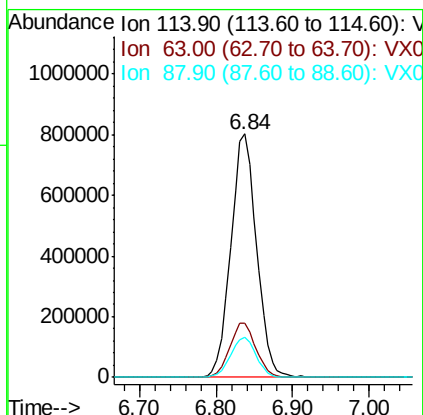
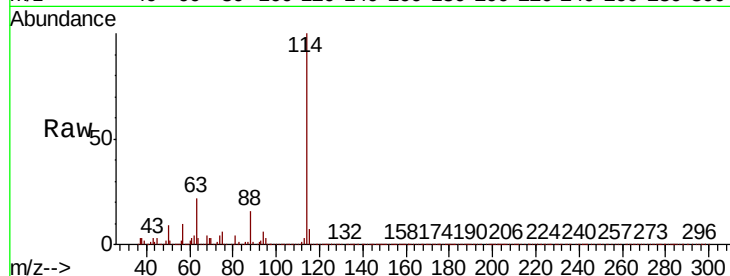




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

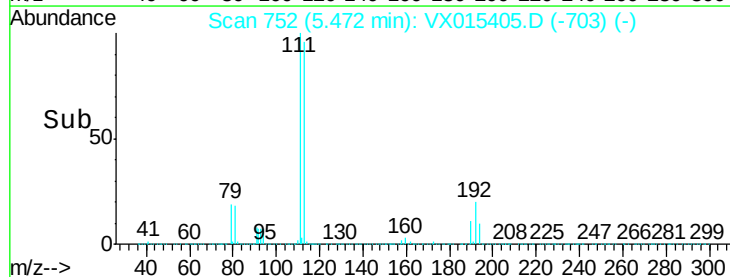
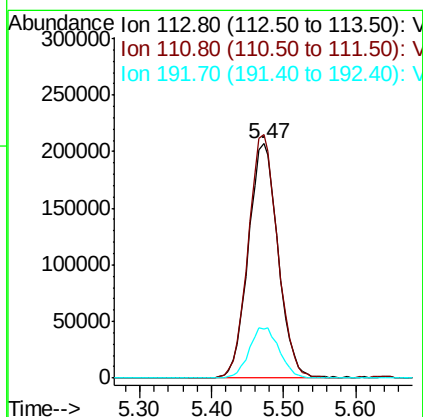
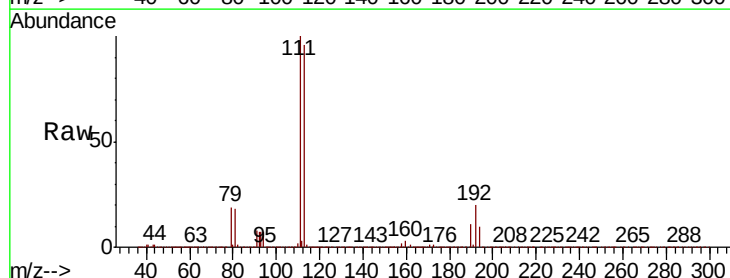
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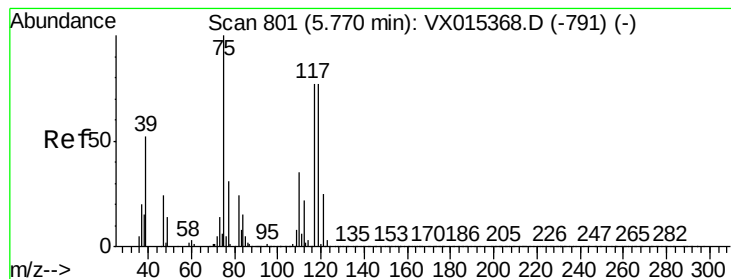
Tot Ion:114 Resp: 1872462
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.2
 88 16.5 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 49.512 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

Tgt Ion:113 Resp: 592621
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.5 122.3
 192 22.1 17.8 26.6





#36

1,1-Dichloropropene

Concen: 5.194 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

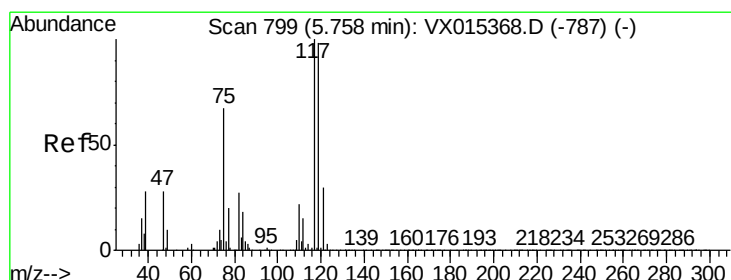
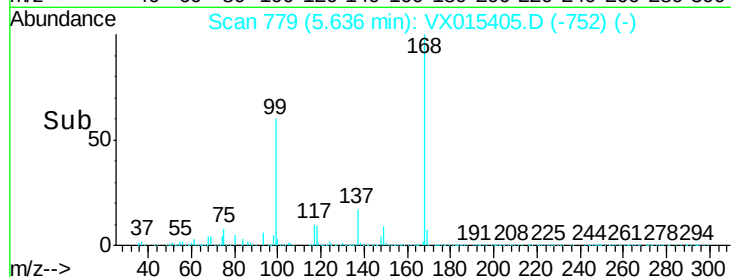
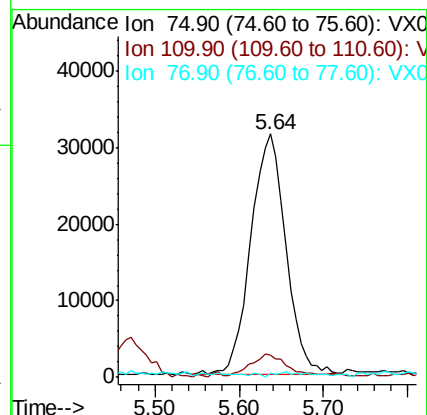
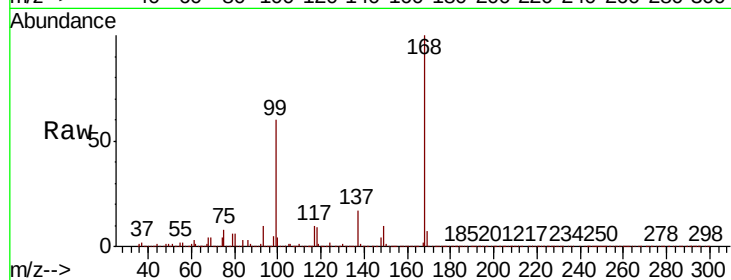
Tot Ion: 75 Resp: 89617

Ion Ratio Lower Upper

75 100

110 10.0 17.1 51.3#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.932 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

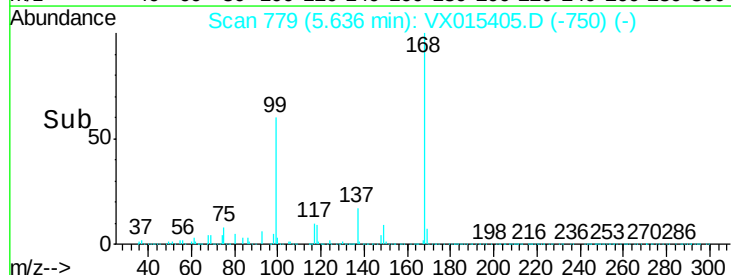
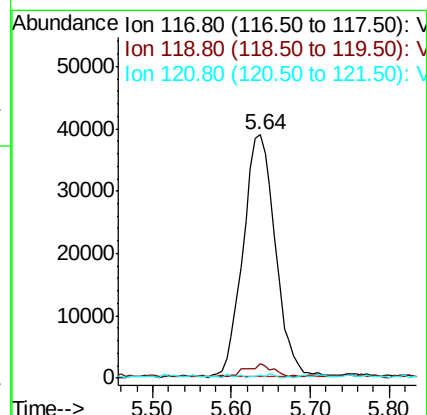
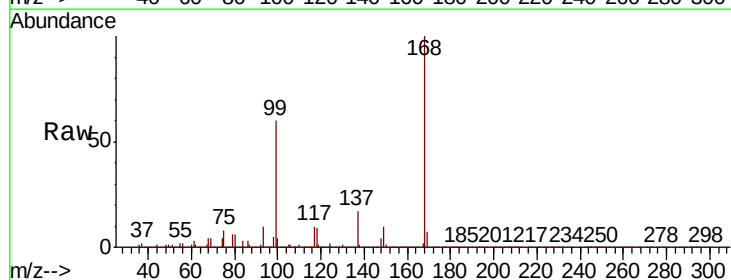
Tgt Ion: 117 Resp: 110840

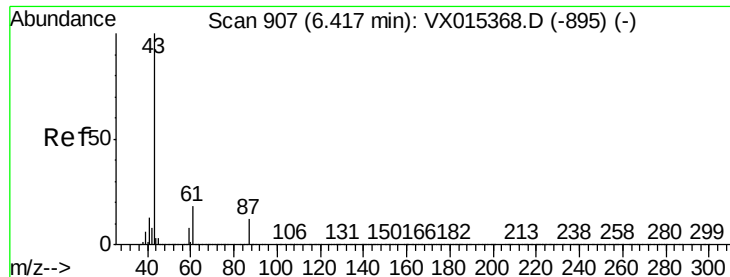
Ion Ratio Lower Upper

117 100

119 5.0 78.0 117.0#

121 0.3 23.8 35.8#





#43

Isopropyl Acetate

Concen: 11.902 ug/l

RT: 6.42 min Scan# 907

Delta R.T. 0.00 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

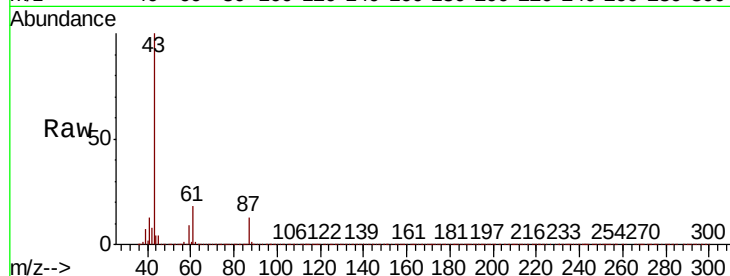
Tot Ion: 43 Resp: 451329

Ion Ratio Lower Upper

43 100

61 18.7 14.8 22.2

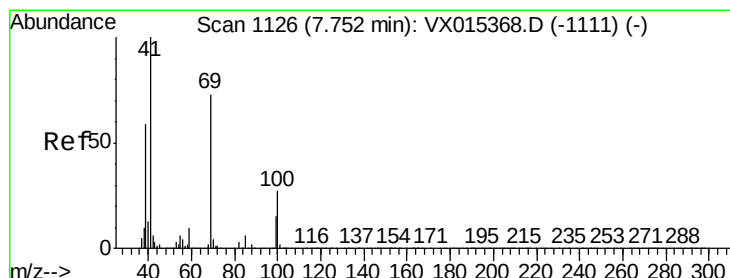
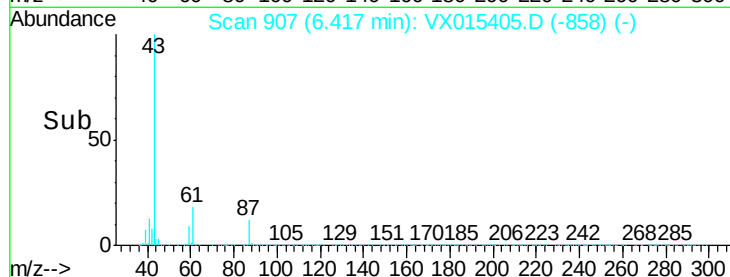
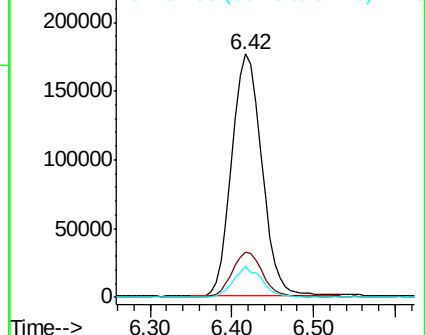
87 11.7 9.4 14.0



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

Methyl methacrylate

Concen: 33.568 ug/l

RT: 7.86 min Scan# 1143

Delta R.T. 0.10 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

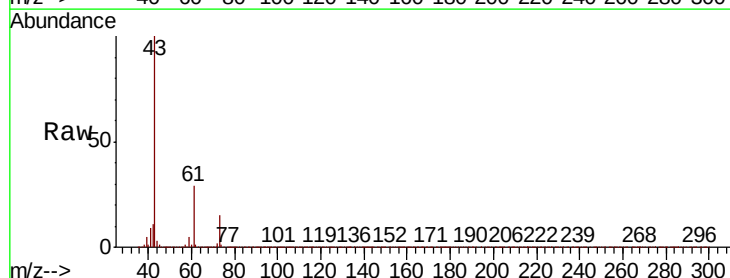
Tgt Ion: 41 Resp: 635822

Ion Ratio Lower Upper

41 100

69 0.3 56.7 85.1#

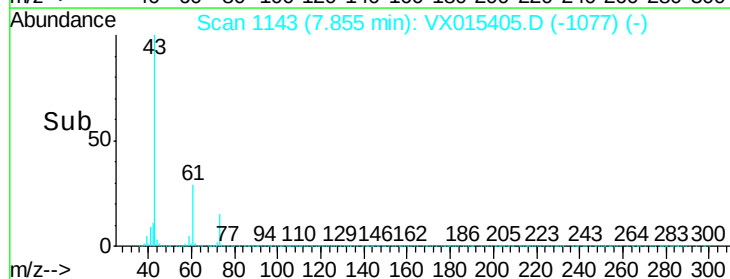
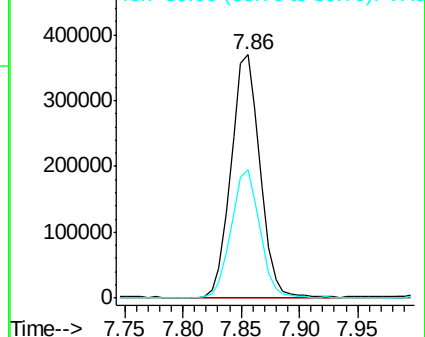
39 51.9 46.5 69.7

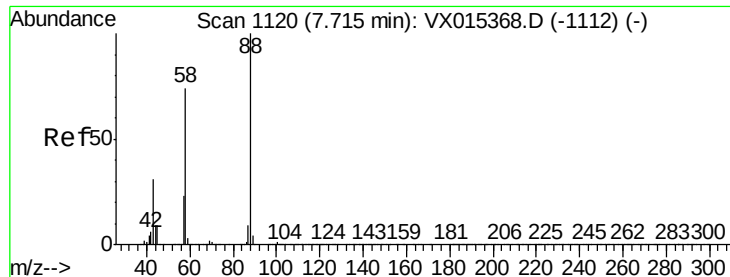


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.094 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.01 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

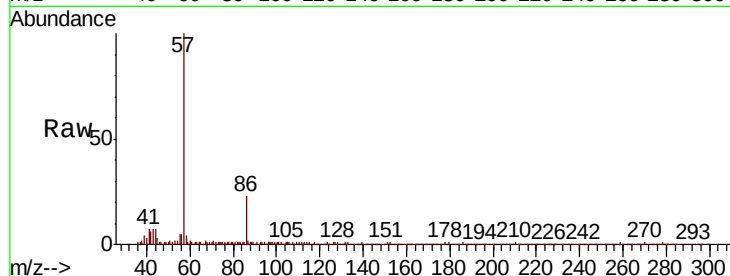
Tot Ion: 88 Resp: 740

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

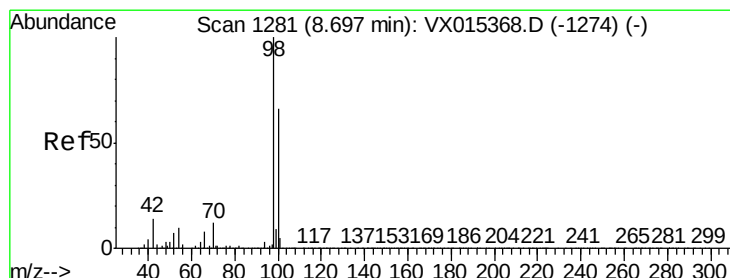
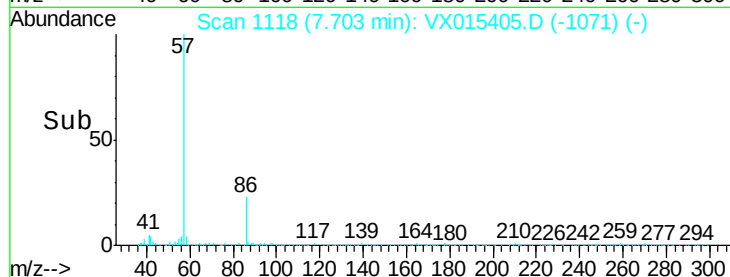
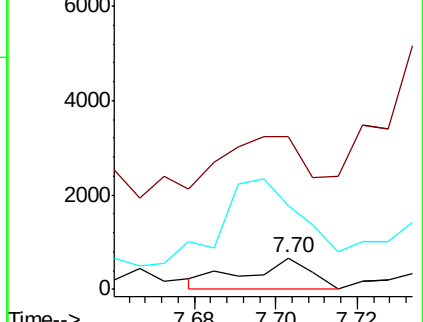
58 350.9 60.6 90.8#



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: 50.007 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015405.D

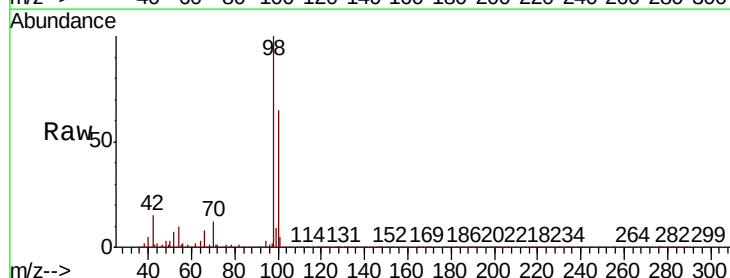
Acq: 28 Mar 2020 01:39

Tgt Ion: 98 Resp: 2203699

Ion Ratio Lower Upper

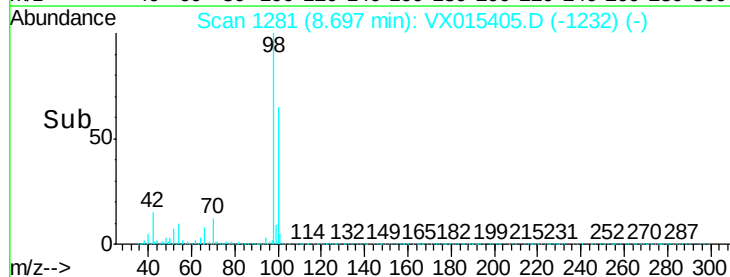
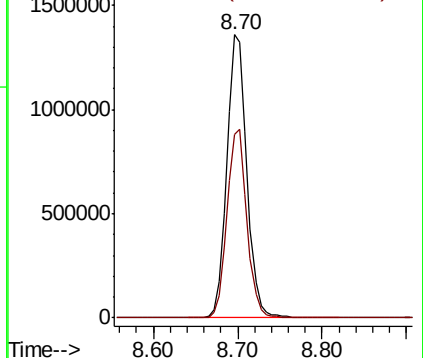
98 100

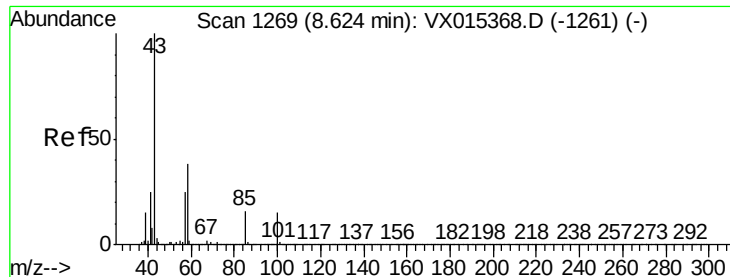
100 66.3 53.5 80.3



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: 19.791 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

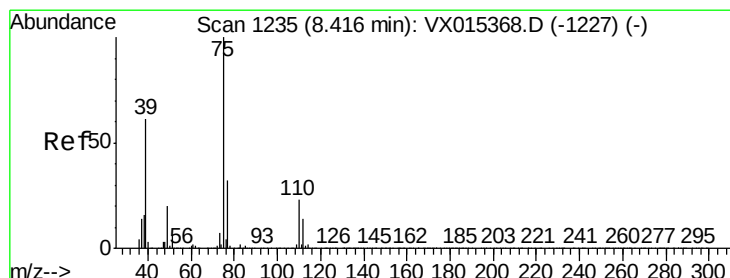
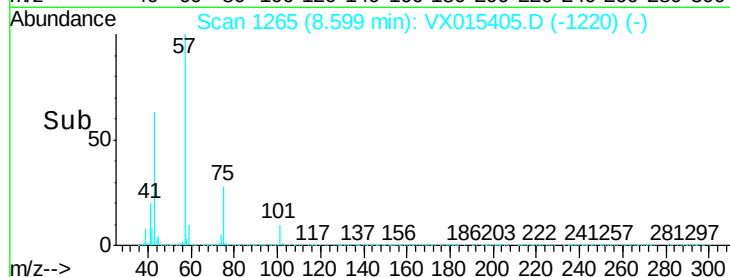
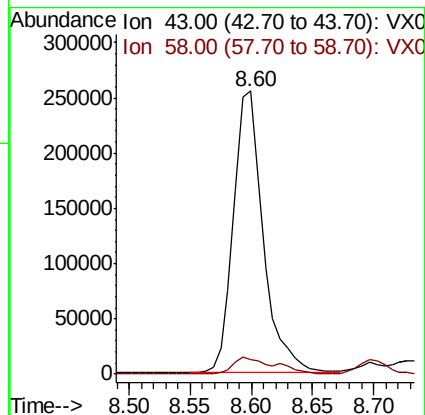
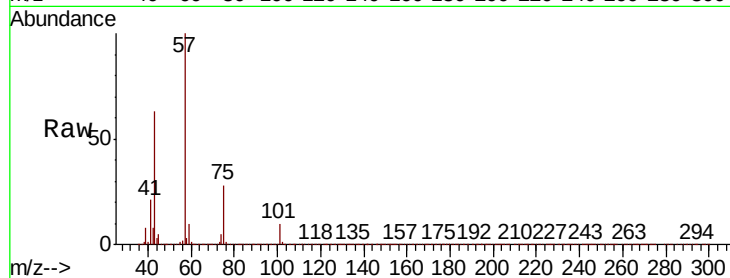
PB127861ZHE#01

Tot Ion: 43 Resp: 425337

Ion Ratio Lower Upper

43 100

58 8.6 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 7.716 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

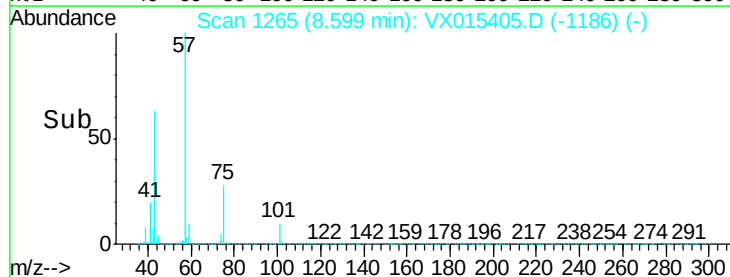
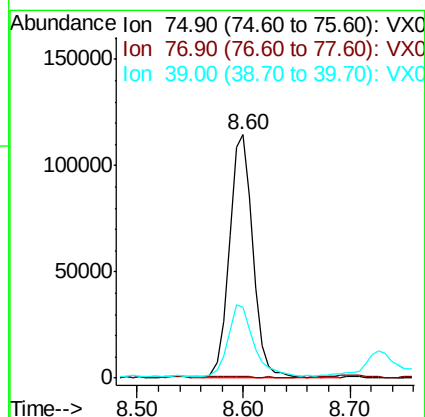
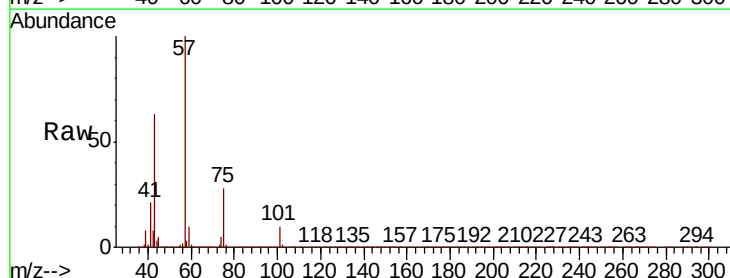
Tgt Ion: 75 Resp: 178138

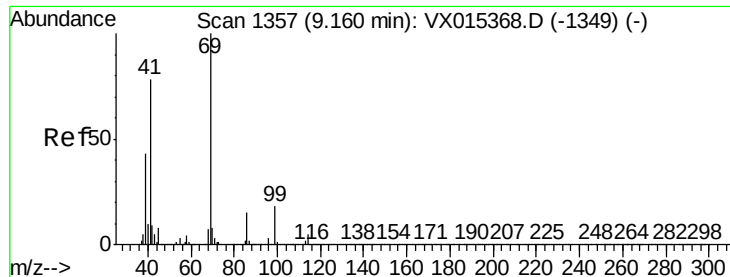
Ion Ratio Lower Upper

75 100

77 0.3 25.8 38.6#

39 28.4 49.0 73.4#





#56

Ethyl methacrylate

Concen: 0.207 ug/l

RT: 9.29 min Scan# 1379

Delta R.T. 0.13 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

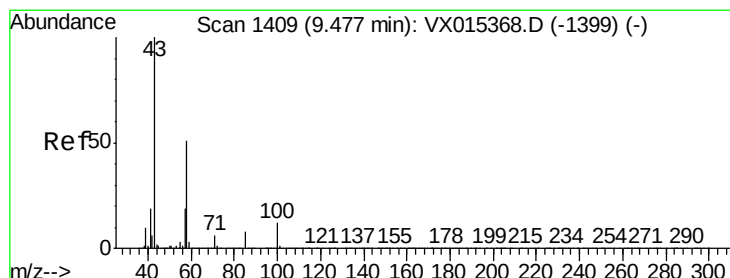
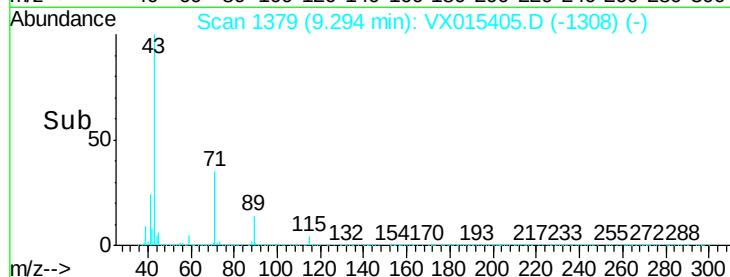
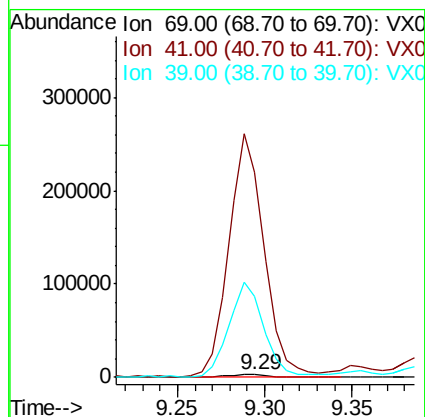
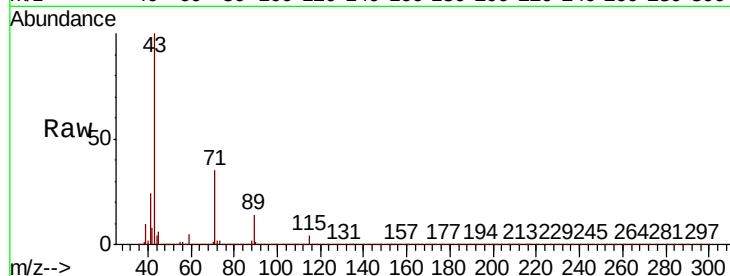
Tot Ion: 69 Resp: 4664

Ion Ratio Lower Upper

69 100

41 7752.4 61.6 92.4#

39 2967.9 34.0 51.0#



#59

2-Hexanone

Concen: 27.463 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015405.D

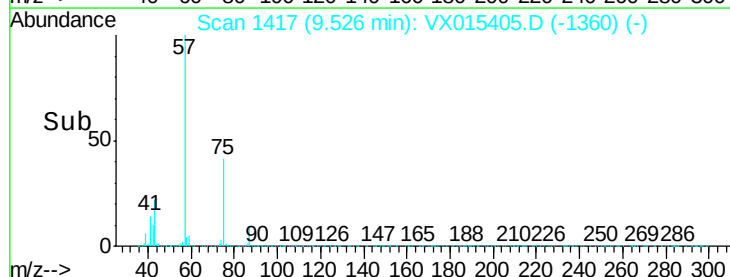
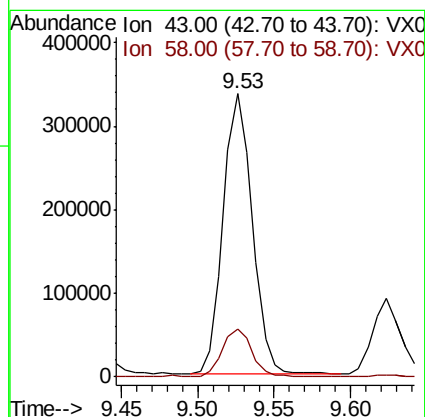
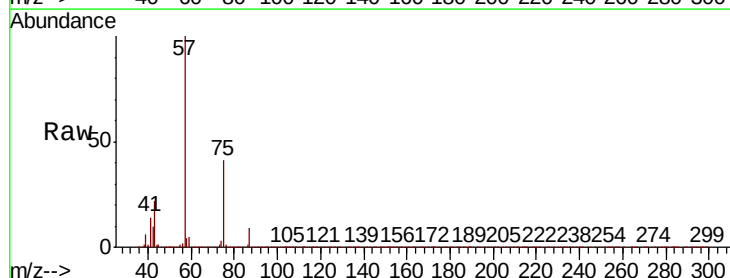
Acq: 28 Mar 2020 01:39

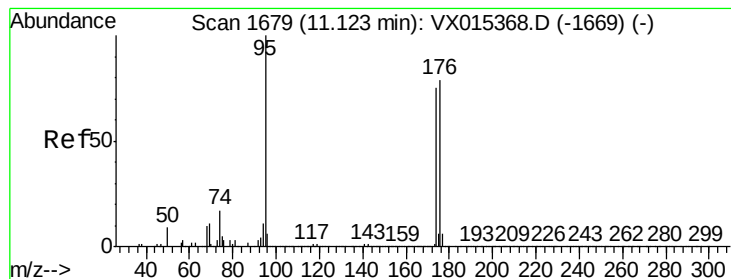
Tgt Ion: 43 Resp: 445597

Ion Ratio Lower Upper

43 100

58 17.2 25.6 76.6#





#62

4-Bromofluorobenzene

Concen: 53.469 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

Instrument :

MSVOA_X

ClientSampleId :

PB127861ZHE#01

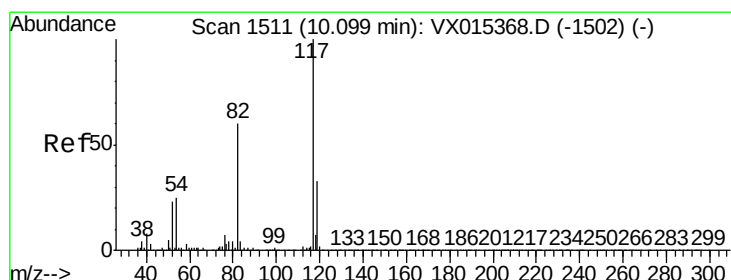
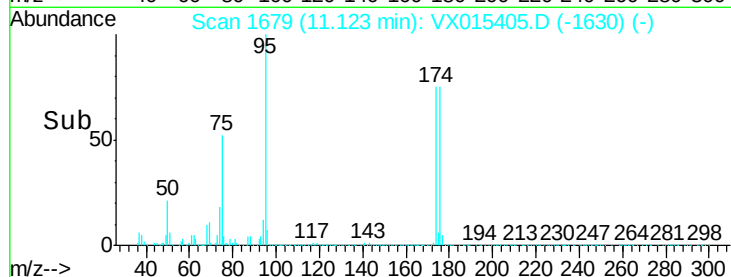
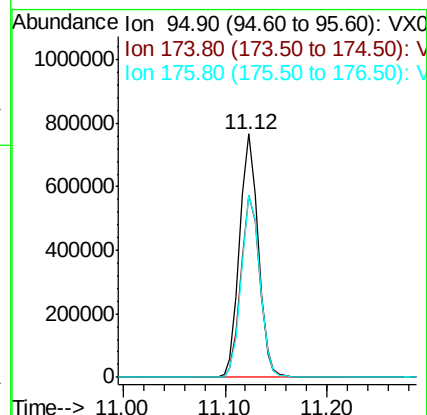
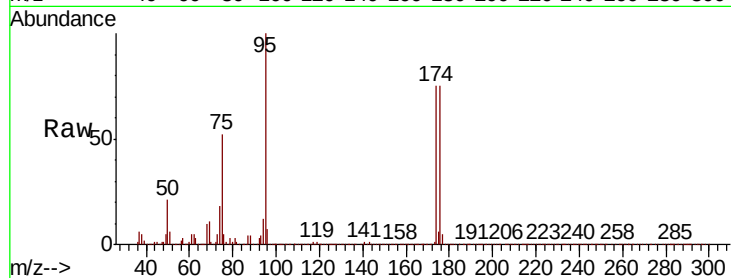
Tot Ion: 95 Resp: 957592

Ion Ratio Lower Upper

95 100

174 76.3 0.0 158.6

176 74.6 0.0 159.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015405.D

Acq: 28 Mar 2020 01:39

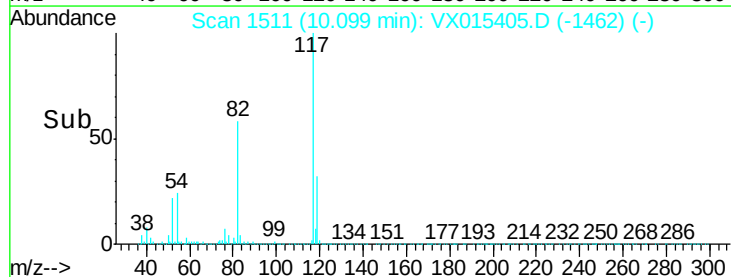
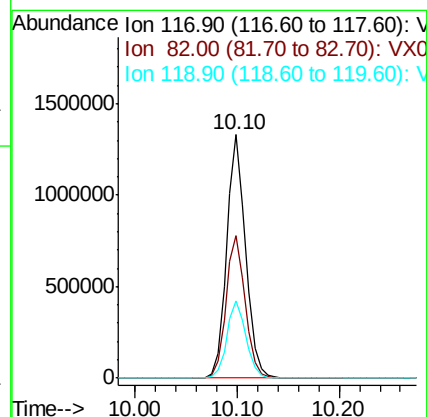
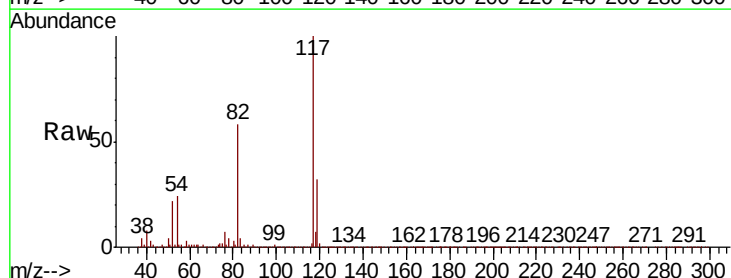
Tgt Ion: 117 Resp: 1714220

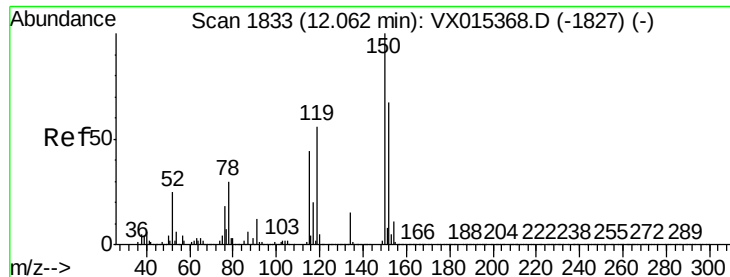
Ion Ratio Lower Upper

117 100

82 58.4 47.8 71.8

119 31.8 26.8 40.2

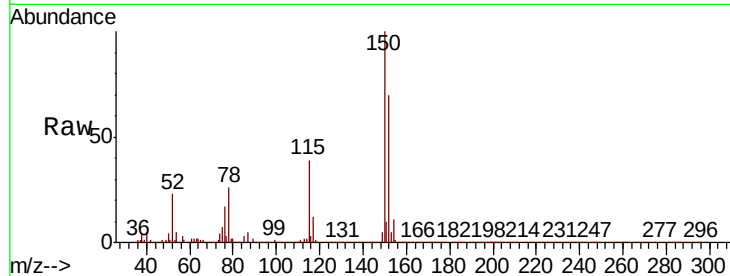




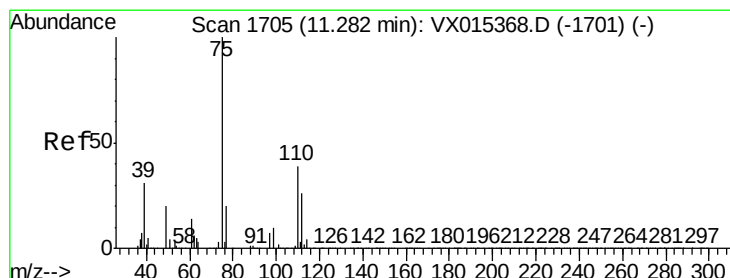
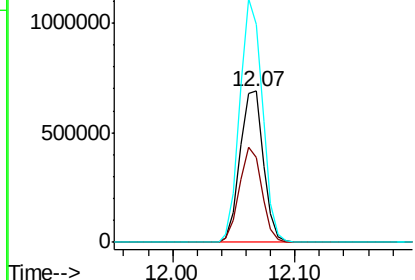
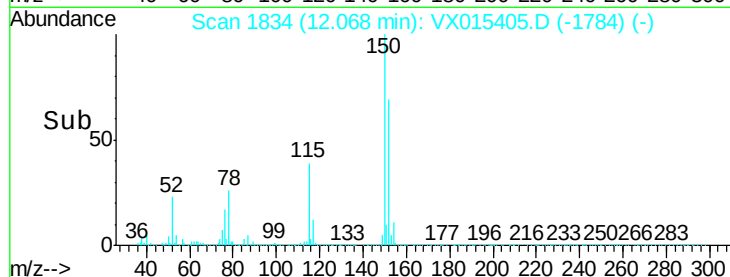
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1834
 Delta R.T. 0.01 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127861ZHE#01

Tot Ion:152 Resp: 908012
 Ion Ratio Lower Upper
 152 100
 115 60.2 39.0 116.9
 150 155.6 0.0 340.8

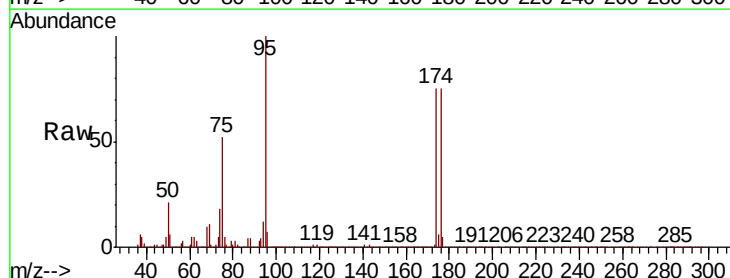


Abundance Ion 151.90 (151.60 to 152.60): V
 1500000 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

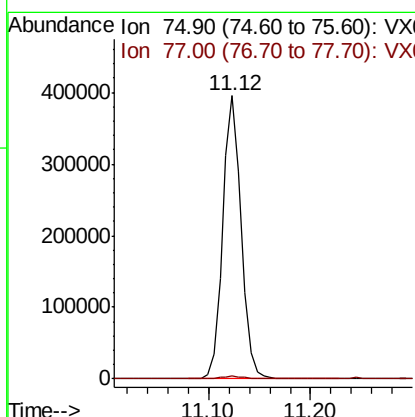
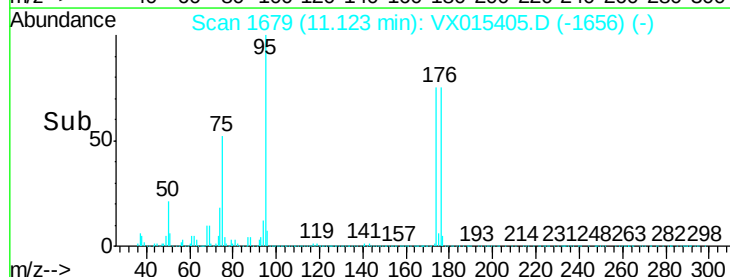


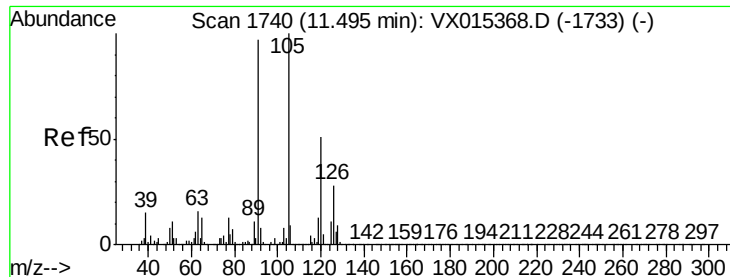
#76
 1,2,3-Trichloropropane
 Concen: 26.511 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. -0.16 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

Tgt Ion: 75 Resp: 495031
 Ion Ratio Lower Upper
 75 100
 77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0

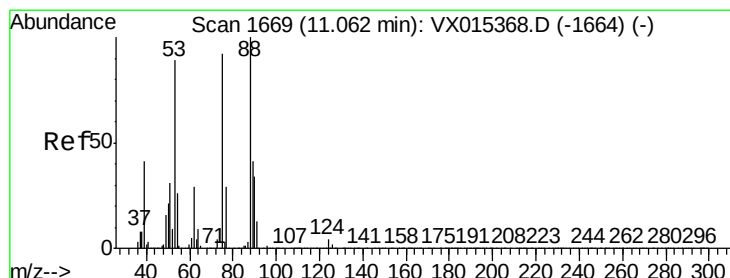
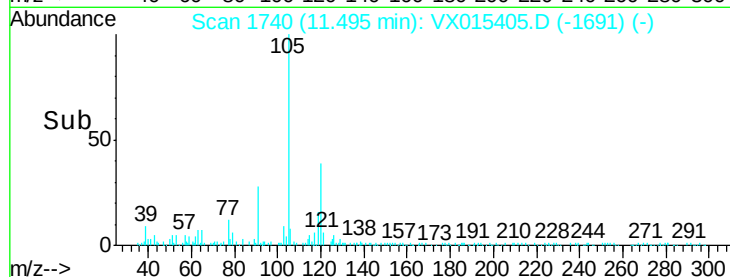
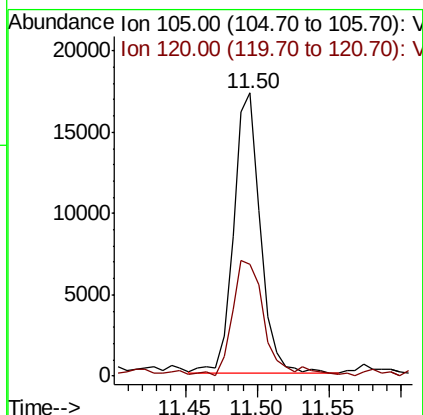
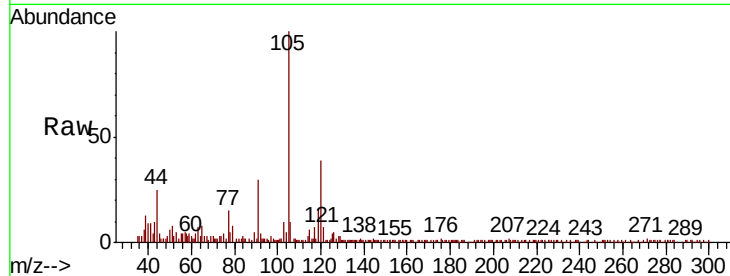




#80
 1,3,5-Trimethylbenzene
 Concen: 0.440 ug/l
 RT: 11.50 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127861ZHE#01

Tot Ion:105 Resp: 22346
 Ion Ratio Lower Upper
 105 100
 120 43.8 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.612 ug/l
 RT: 11.12 min Scan# 1679
 Delta R.T. 0.06 min
 Lab File: VX015405.D
 Acq: 28 Mar 2020 01:39

Tgt Ion: 75 Resp: 495031
 Ion Ratio Lower Upper
 75 100
 53 0.1 80.1 120.1#
 89 0.0 36.1 54.1#

