

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072320\
 Data File : VX017519.D
 Acq On : 24 Jul 2020 02:37
 Operator : JC/SP
 Sample : PB130403ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130403ZHE#09

Quant Time: Jul 24 06:06:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	465807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	849913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	810324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	410624	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	321548	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
35) Dibromofluoromethane	5.46	113	262132	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	
50) Toluene-d8	8.70	98	951871	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
62) 4-Bromofluorobenzene	11.12	95	409570	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	

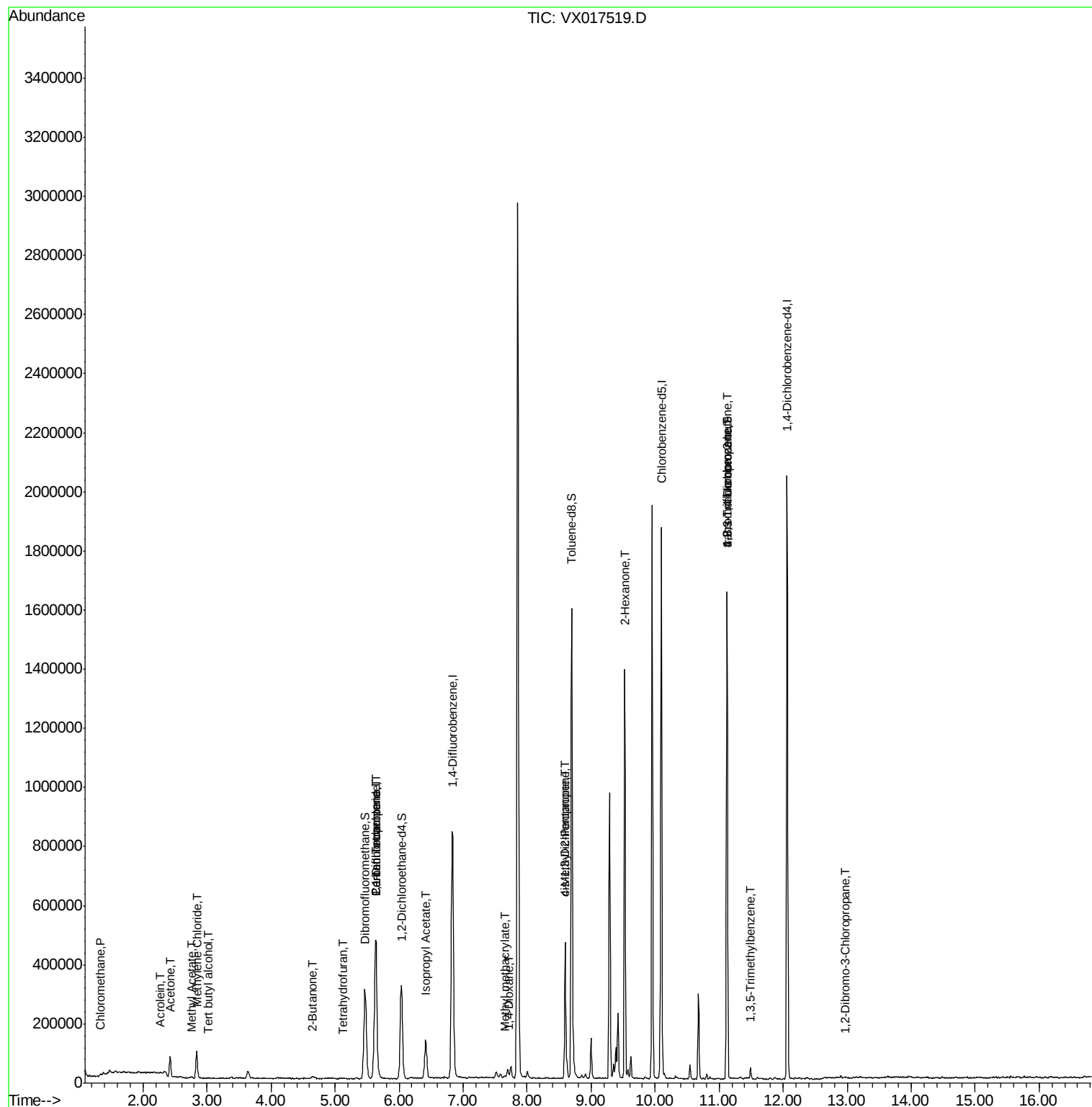
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	195	Below Cal	#	65
3) Chloromethane	1.33	50	1085	0.554	ug/l	100
5) Bromomethane	1.63	94	293	Below Cal	#	27
6) Chloroethane	1.70	64	604	Below Cal	#	44
8) Diethyl Ether	2.17	74	1851	Below Cal		60
11) Tert butyl alcohol	3.01	59	1655	1.312	ug/l #	55
13) Acrolein	2.26	56	416	4.573	ug/l	97
16) Acetone	2.42	43	71187	27.031	ug/l	98
18) Methyl Acetate	2.75	43	7724	1.245	ug/l	92
20) Methylene Chloride	2.84	84	41629	7.296	ug/l	94
25) 2-Butanone	4.65	43	14243	3.807	ug/l	95
29) Tetrahydrofuran	5.12	42	2793	1.205	ug/l #	70
36) 1,1-Dichloropropene	5.63	75	35003	4.294	ug/l #	52
38) Carbon Tetrachloride	5.64	117	46913	4.739	ug/l #	19
43) Isopropyl Acetate	6.42	43	171460	11.652	ug/l	99
48) Methyl methacrylate	7.65	41	8204	1.125	ug/l #	15
49) 1,4-Dioxane	7.72	88	86	0.615	ug/l #	22
51) 4-Methyl-2-Pentanone	8.59	43	168398	19.179	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	67768	6.443	ug/l #	61
59) 2-Hexanone	9.52	43	157734	23.861	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	210478	24.918	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.49	105	15284	0.635	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	210478	62.789	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.97	75	161	2.638	ug/l #	60

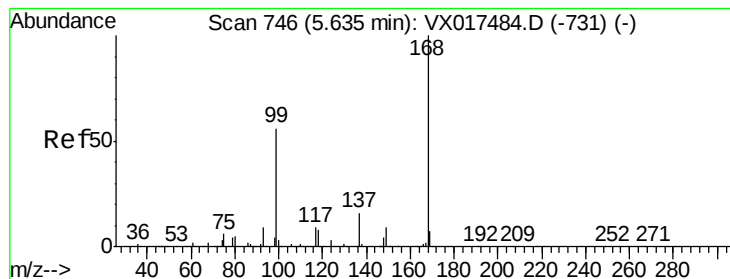
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072320\
Data File : VX017519.D
Acq On : 24 Jul 2020 02:37
Operator : JC/SP
Sample : PB130403ZHE#09
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

Quant Time: Jul 24 06:06:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

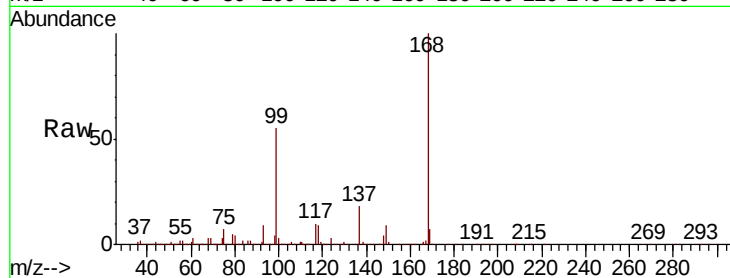
PB130403ZHE#09

Tot Ion:168 Resp: 465807

Ion Ratio Lower Upper

168 100

99 54.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

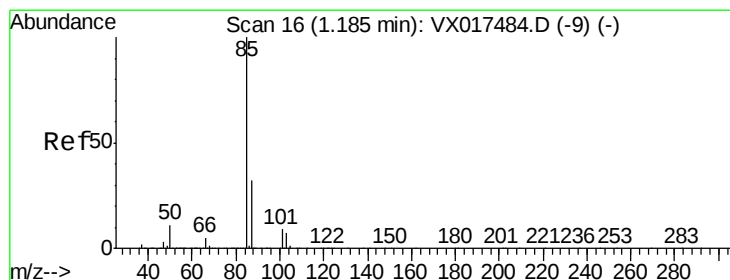
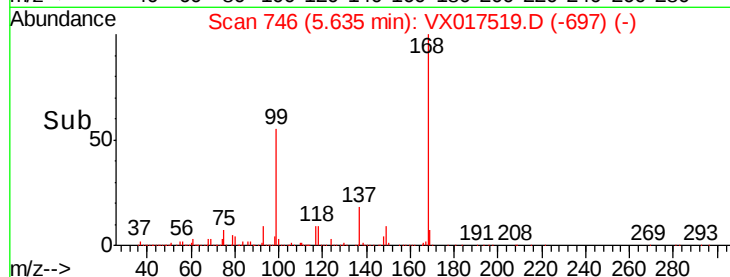
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017519.D

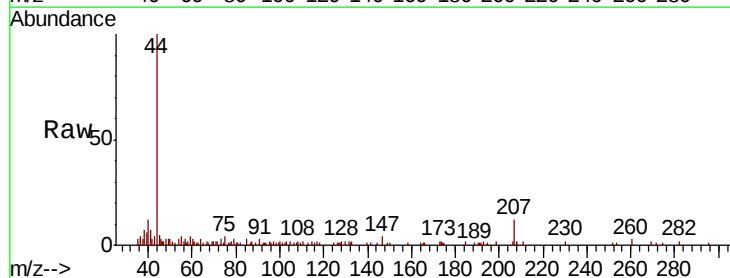
Acq: 24 Jul 2020 02:37

Tgt Ion: 85 Resp: 195

Ion Ratio Lower Upper

85 100

87 12.6 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

300

250

200

150

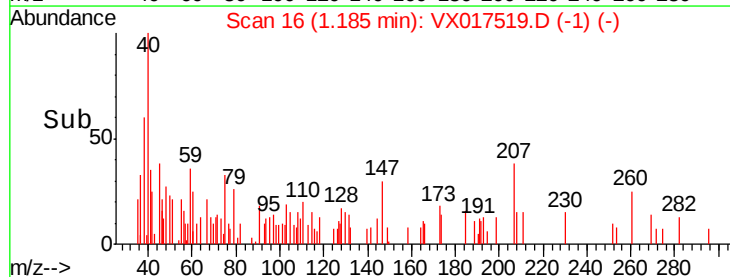
100

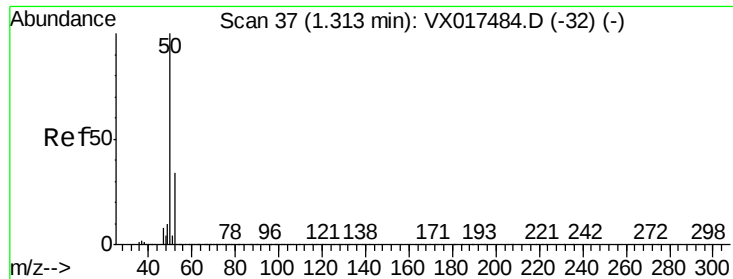
50

0

Time-->

1.16 1.18 1.20





#3

Chloromethane

Concen: 0.554 ug/l

RT: 1.33 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

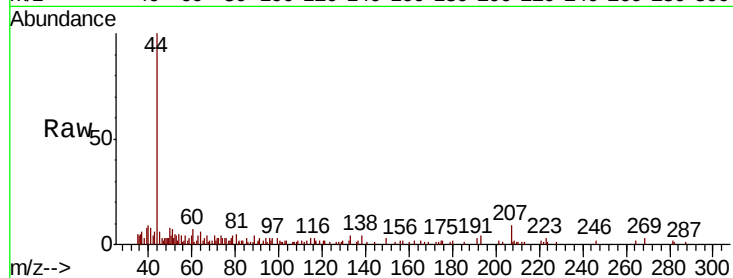
PB130403ZHE#09

Tot Ion: 50 Resp: 1085

Ion Ratio Lower Upper

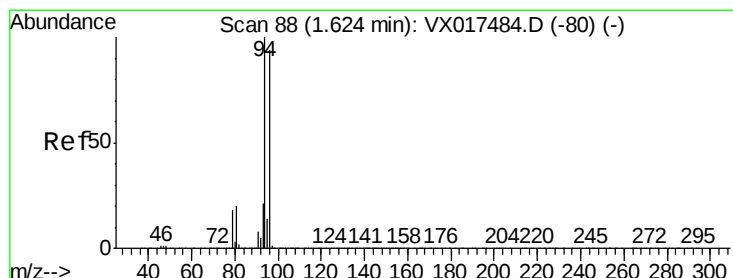
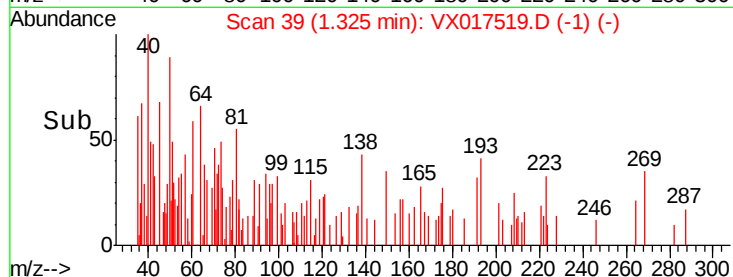
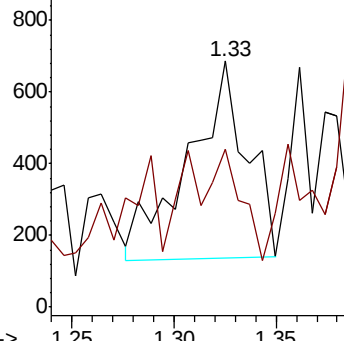
50 100

52 32.7 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017519.D

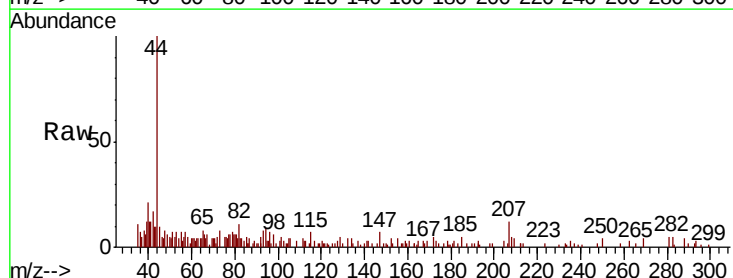
Acq: 24 Jul 2020 02:37

Tgt Ion: 94 Resp: 293

Ion Ratio Lower Upper

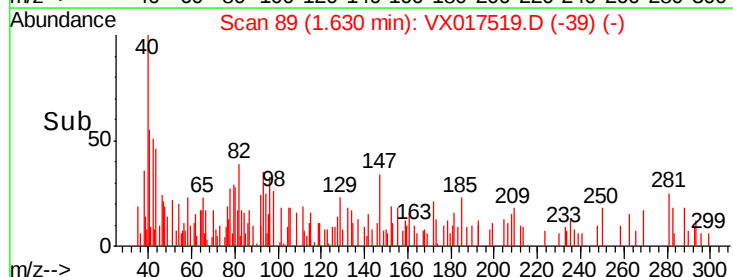
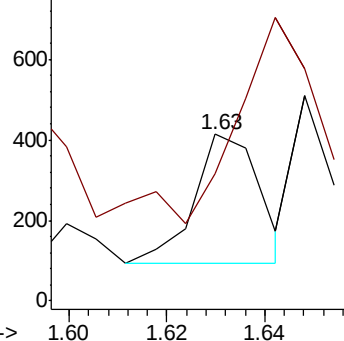
94 100

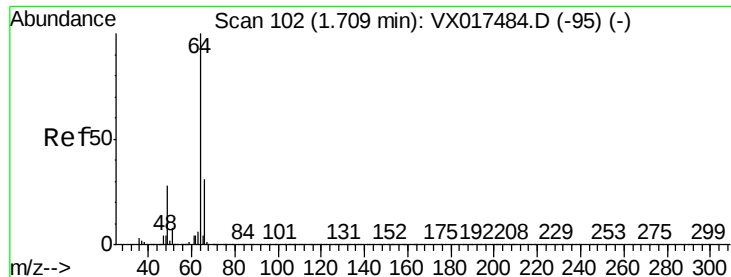
96 22.5 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

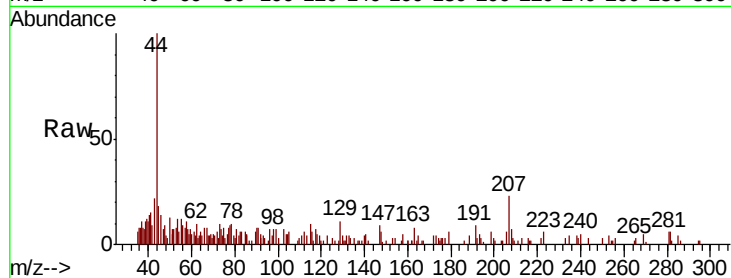
PB130403ZHE#09

Tot Ion: 64 Resp: 604

Ion Ratio Lower Upper

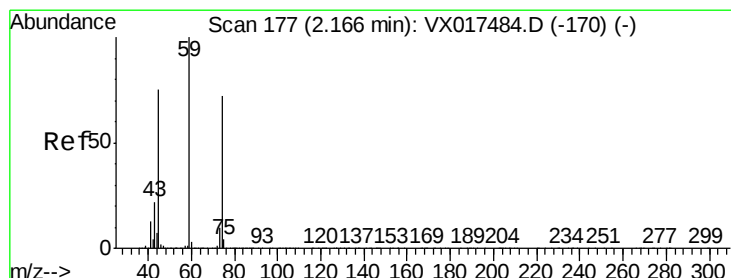
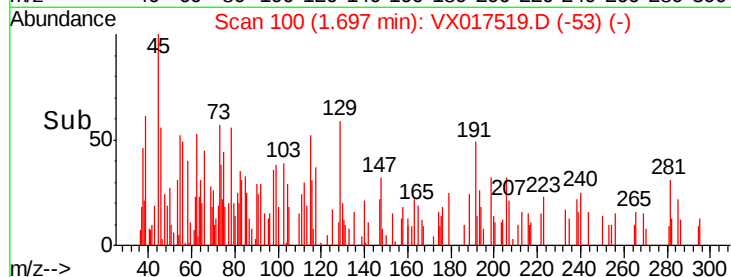
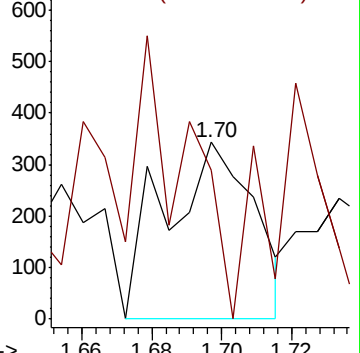
64 100

66 62.1 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017519.D

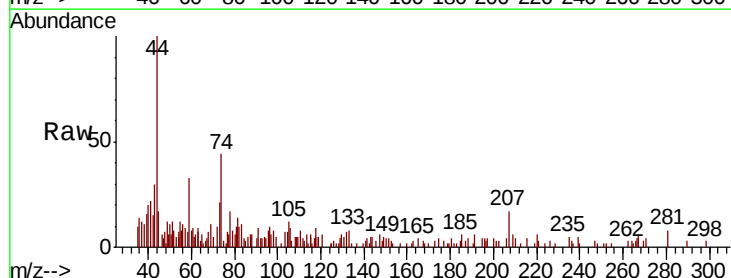
Acq: 24 Jul 2020 02:37

Tgt Ion: 74 Resp: 1851

Ion Ratio Lower Upper

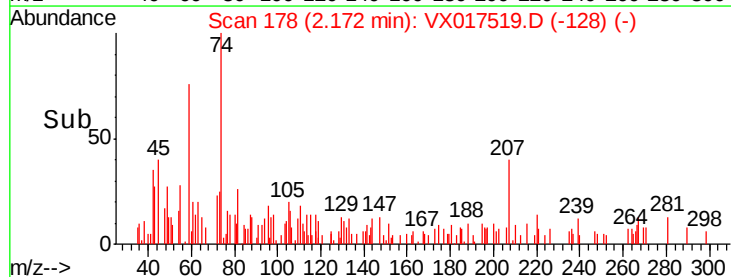
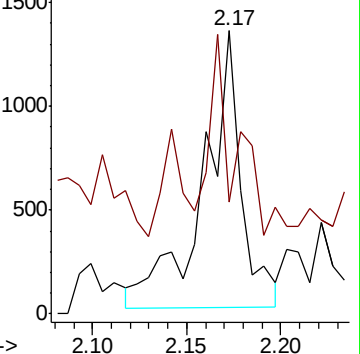
74 100

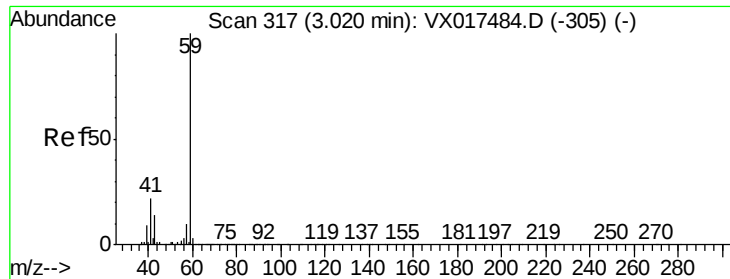
45 61.8 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

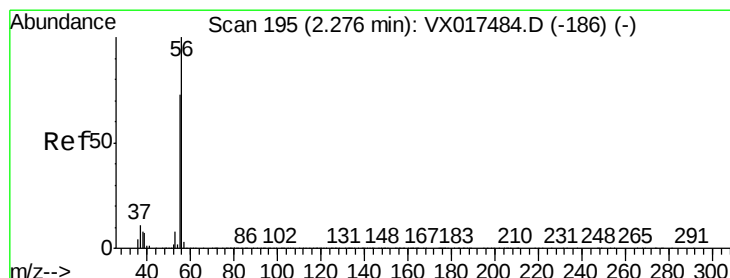
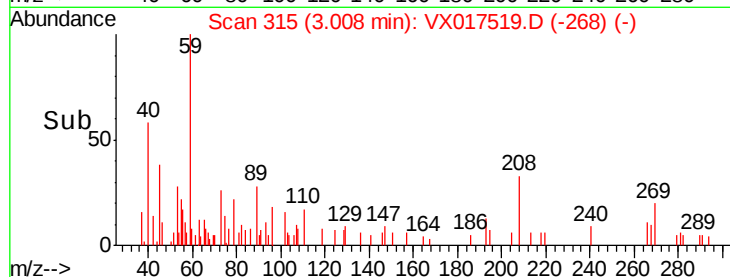
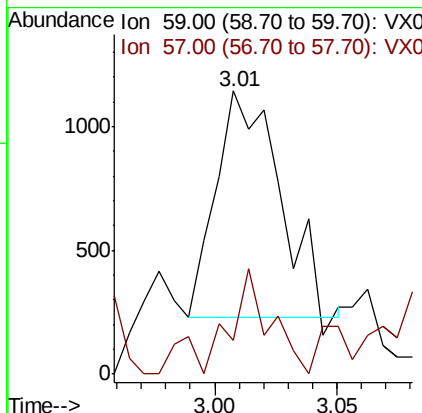
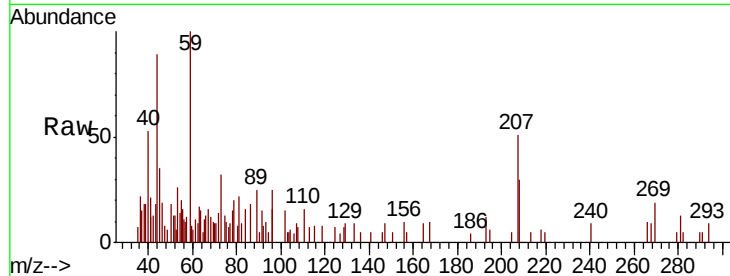




#11
Tert butyl alcohol
Concen: 1.312 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

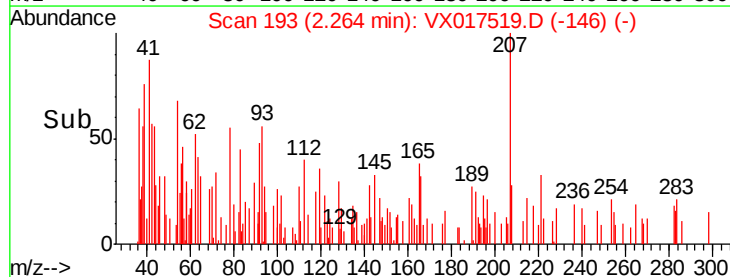
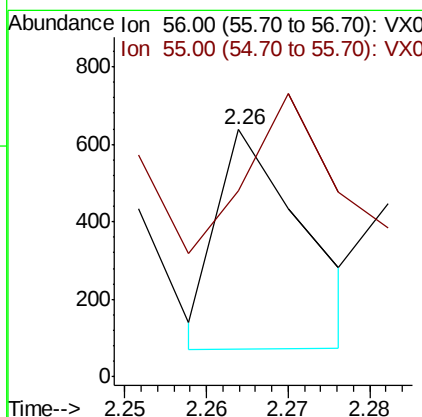
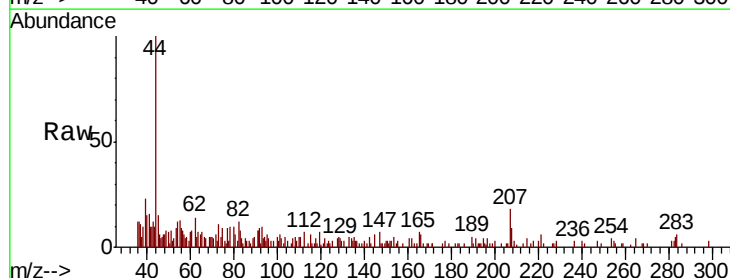
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

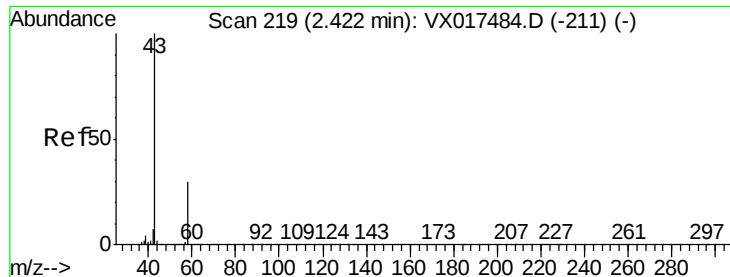
Tot Ion: 59 Resp: 1655
Ion Ratio Lower Upper
59 100
57 27.7 8.6 12.8#



#13
Acrolein
Concen: 4.573 ug/l
RT: 2.26 min Scan# 193
Delta R.T. -0.01 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

Tgt Ion: 56 Resp: 416
Ion Ratio Lower Upper
56 100
55 69.7 57.4 86.2

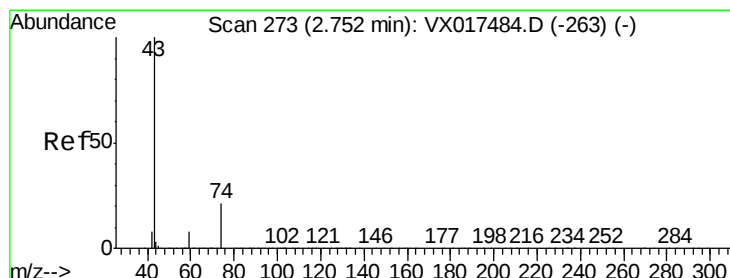
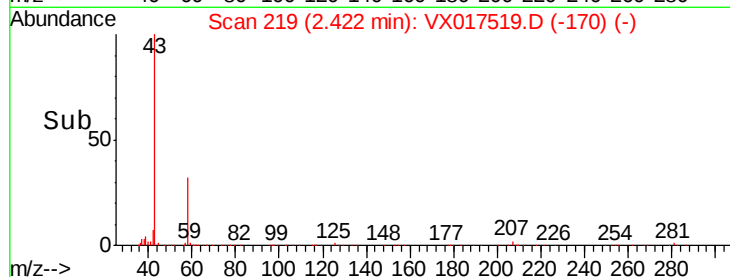
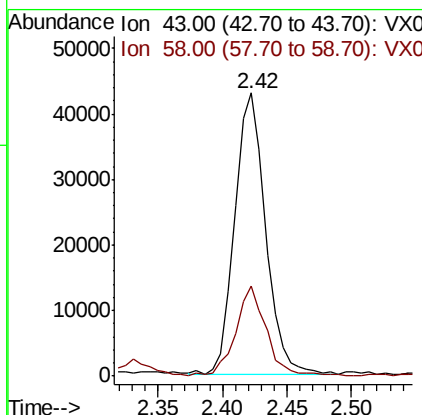
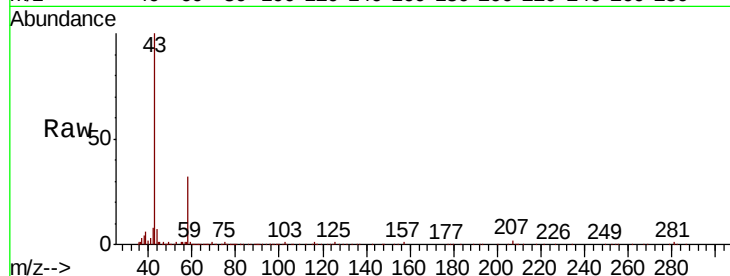




#16
Acetone
Concen: 27.031 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

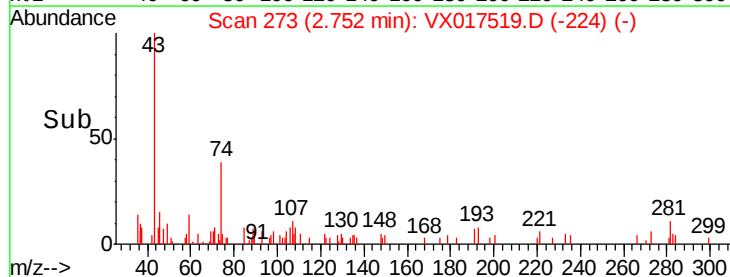
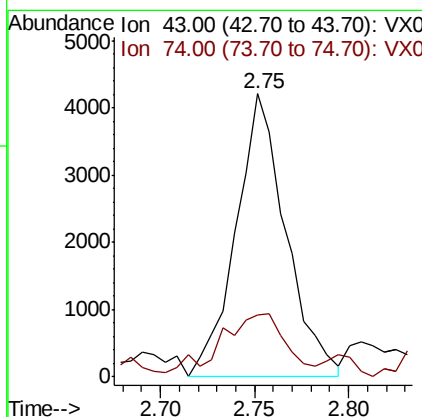
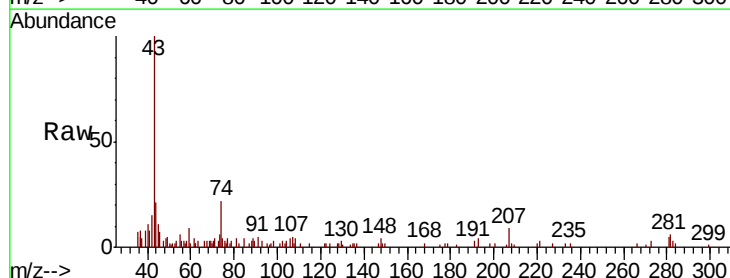
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

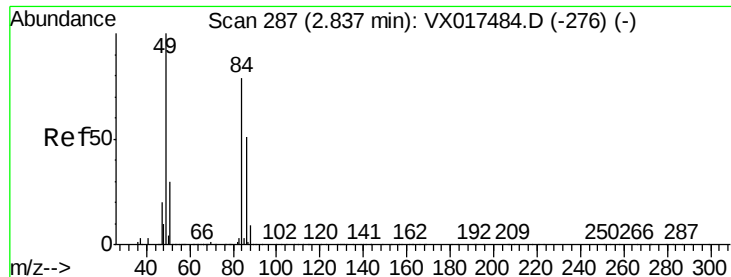
Tot Ion: 43 Resp: 71187
Ion Ratio Lower Upper
43 100
58 31.6 24.2 36.4



#18
Methyl Acetate
Concen: 1.245 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

Tgt Ion: 43 Resp: 7724
Ion Ratio Lower Upper
43 100
74 25.5 17.5 26.3

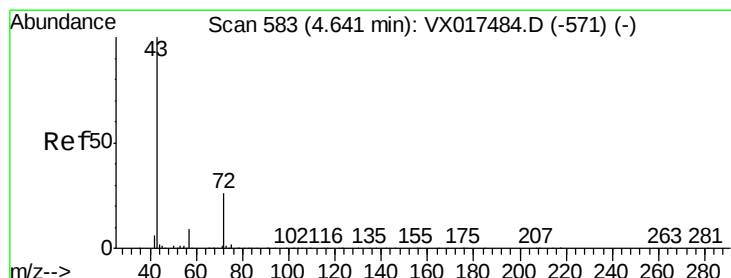
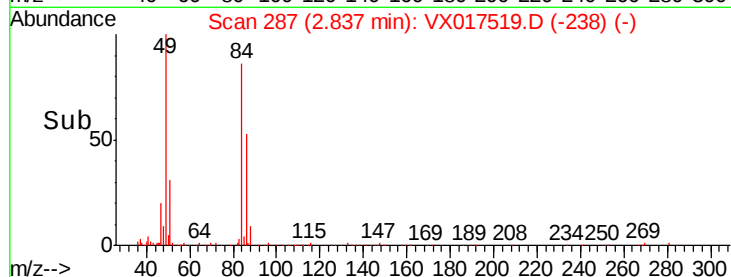
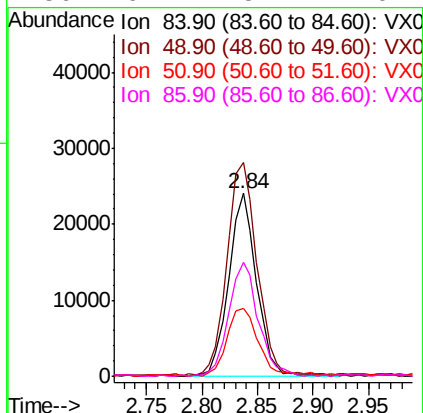
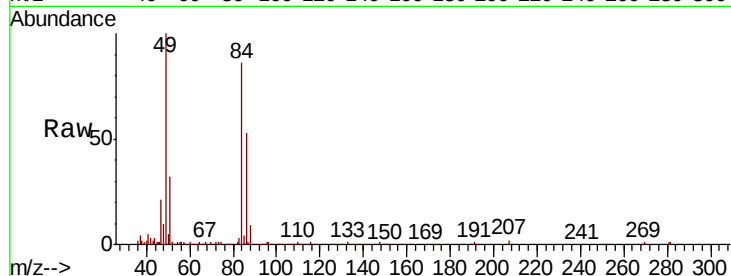




#20
Methvlene Chloride
Concen: 7.296 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

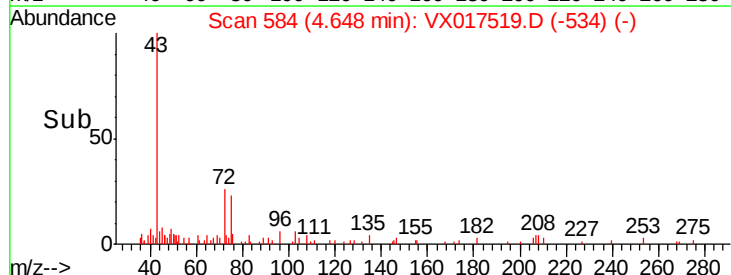
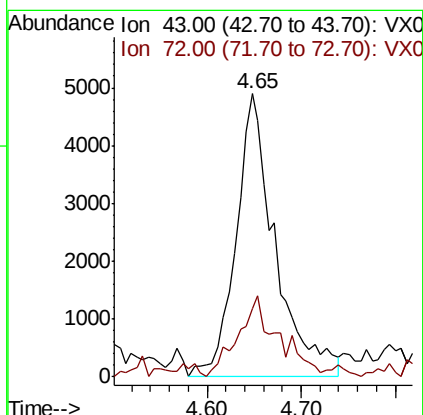
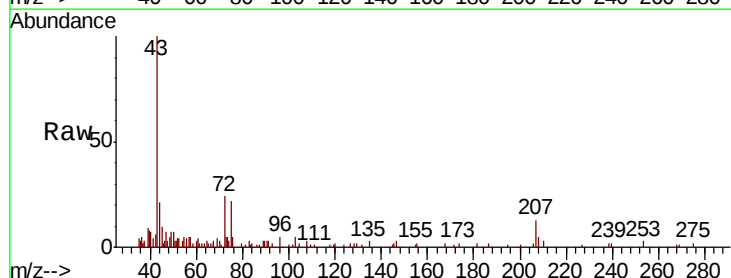
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

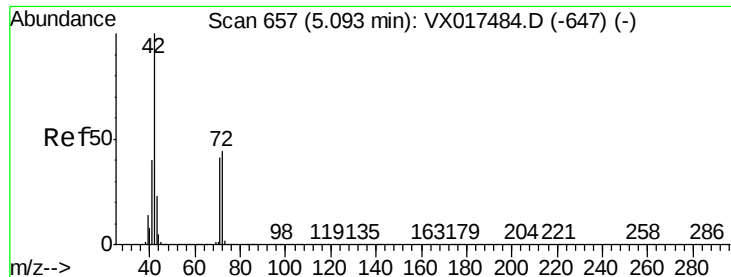
Tot Ion: 84 Resp: 41629
Ion Ratio Lower Upper
84 100
49 115.7 100.3 150.5
51 36.9 30.5 45.7
86 61.7 51.1 76.7



#25
2-Butanone
Concen: 3.807 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

Tgt Ion: 43 Resp: 14243
Ion Ratio Lower Upper
43 100
72 21.5 19.0 28.4





#29

Tetrahydrofuran

Concen: 1.205 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#09

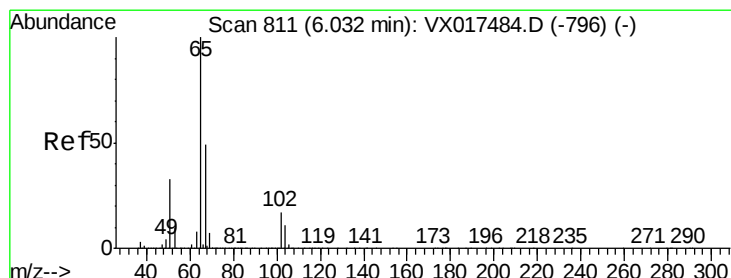
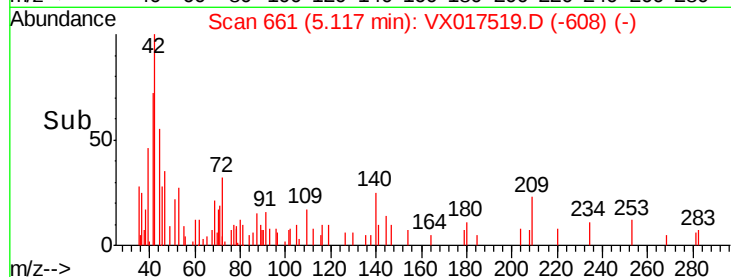
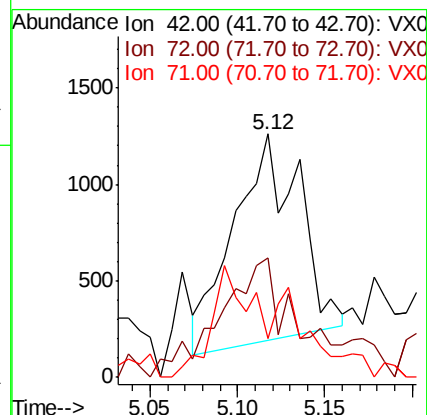
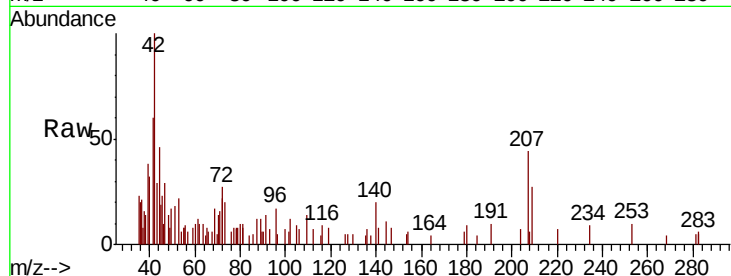
Tot Ion: 42 Resp: 2793

Ion Ratio Lower Upper

42 100

72 66.3 35.5 53.3#

71 25.0 33.0 49.4#



#33

1,2-Dichloroethane-d4

Concen: 53.739 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017519.D

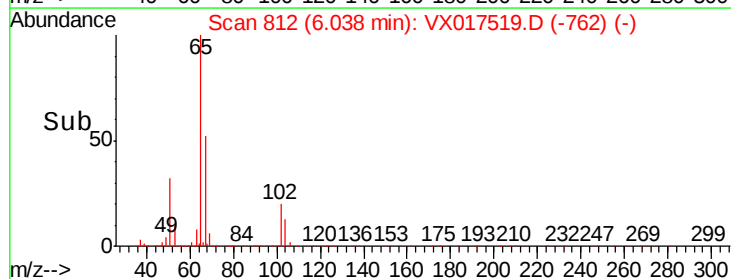
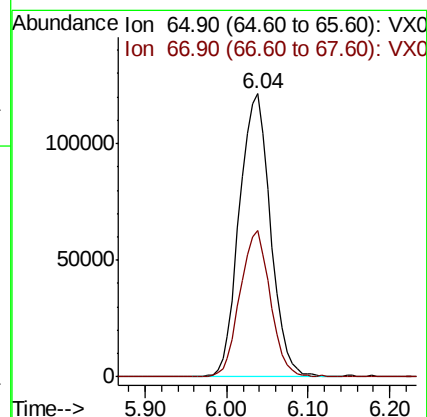
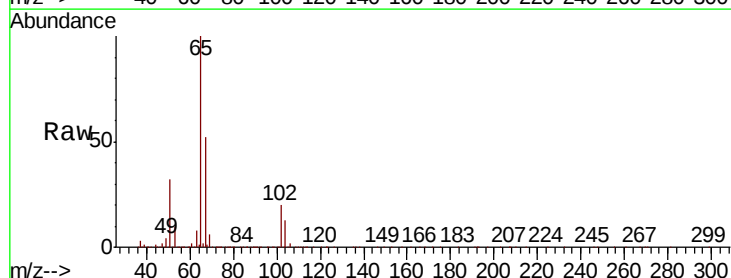
Acq: 24 Jul 2020 02:37

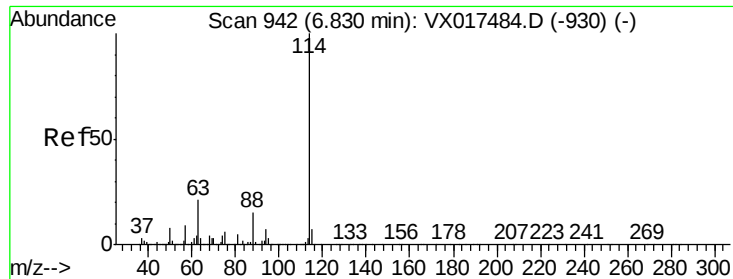
Tgt Ion: 65 Resp: 321548

Ion Ratio Lower Upper

65 100

67 49.6 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#09

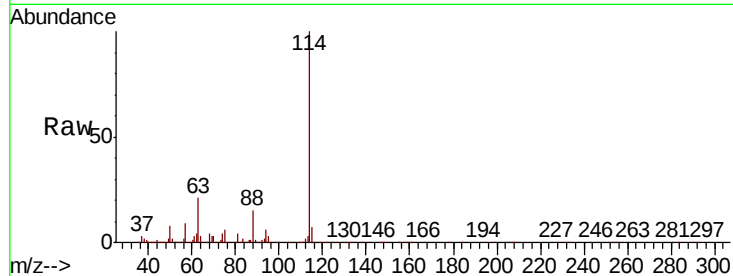
Tot Ion:114 Resp: 849913

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.6

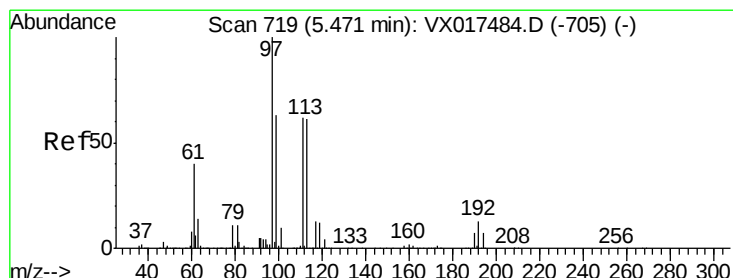
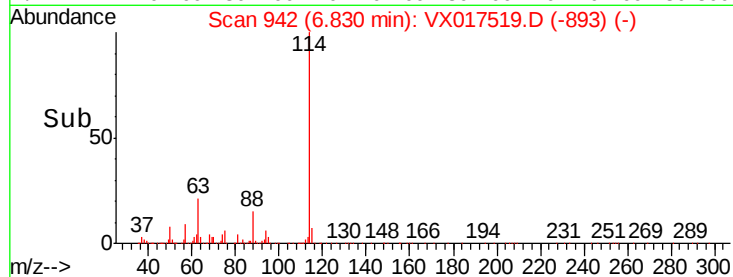
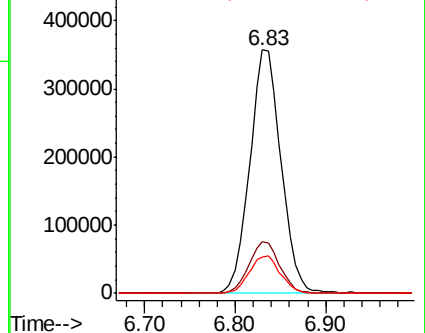
88 14.8 0.0 33.4



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: 46.115 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

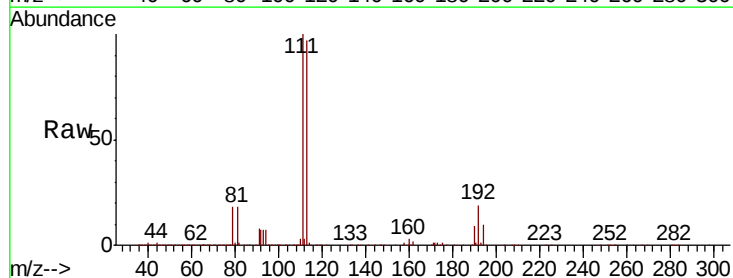
Tgt Ion:113 Resp: 262132

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

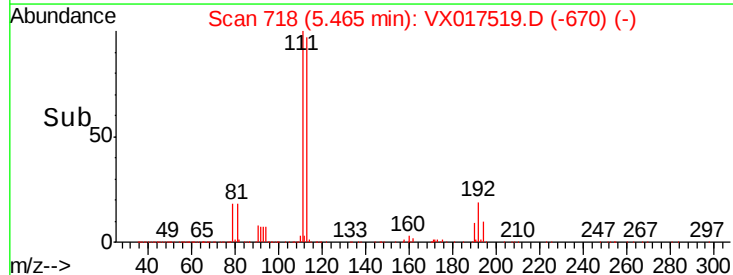
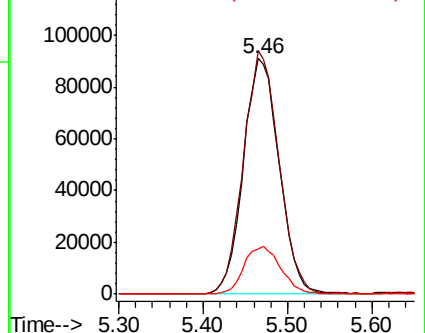
192 21.1 16.9 25.3

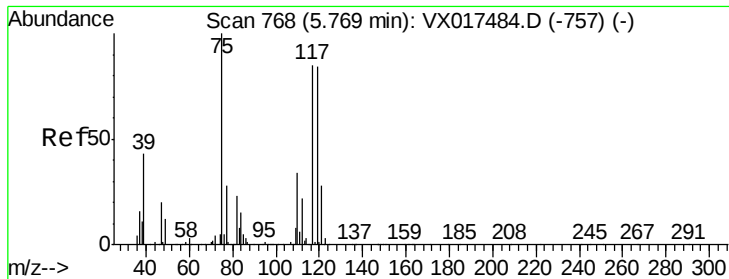


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.294 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#09

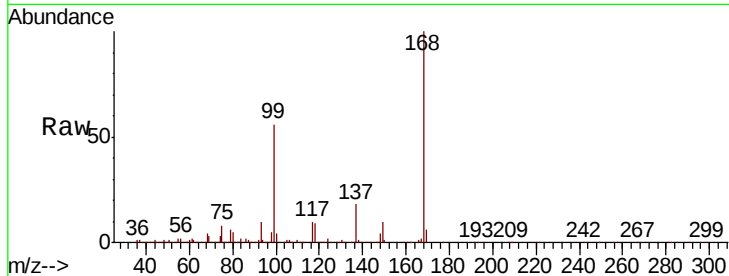
Tot Ion: 75 Resp: 35003

Ion Ratio Lower Upper

75 100

110 11.5 18.1 54.3#

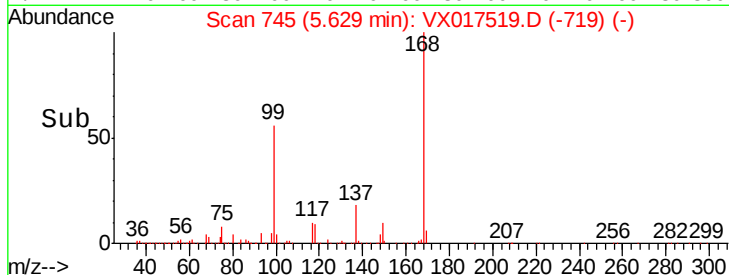
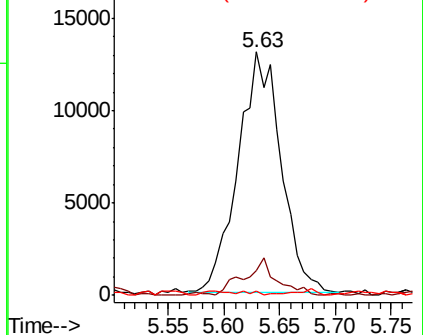
77 0.7 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 4.739 ug/l

RT: 5.64 min Scan# 747

Delta R.T. -0.12 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

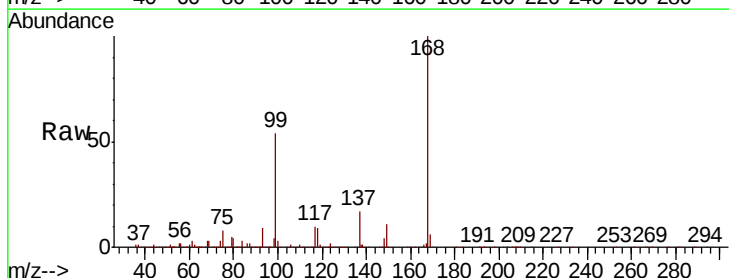
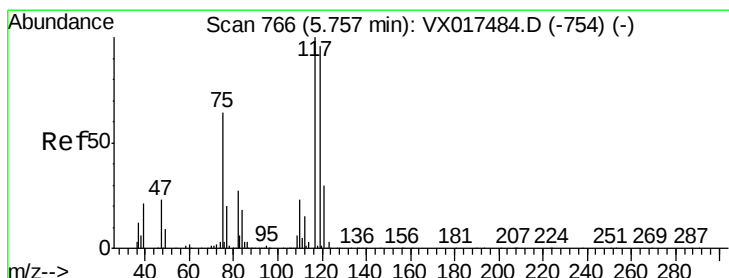
Tgt Ion:117 Resp: 46913

Ion Ratio Lower Upper

117 100

119 7.8 75.4 113.0#

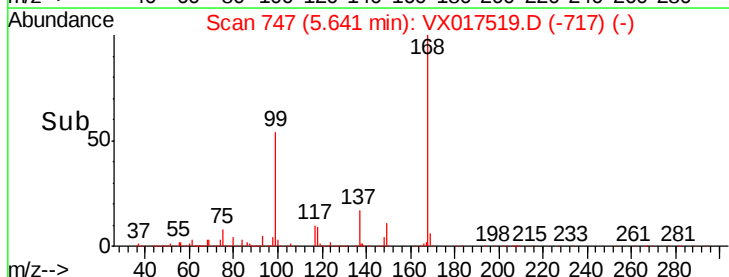
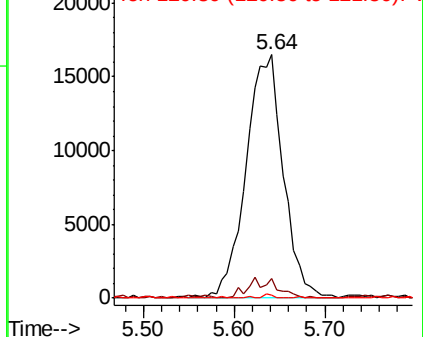
121 1.2 24.3 36.5#

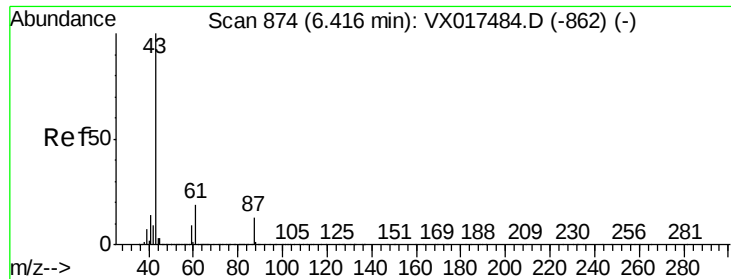


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



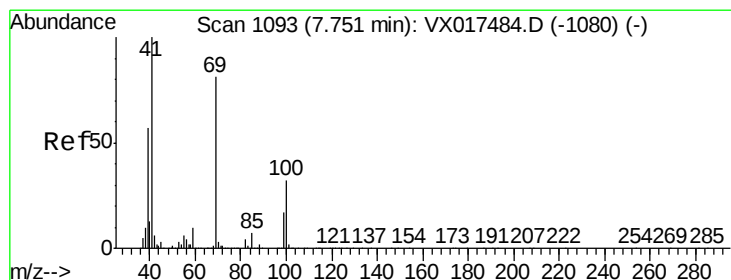
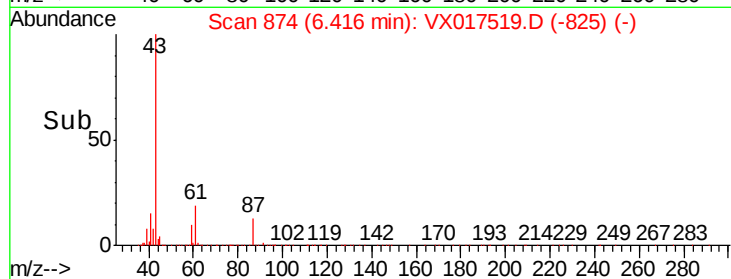
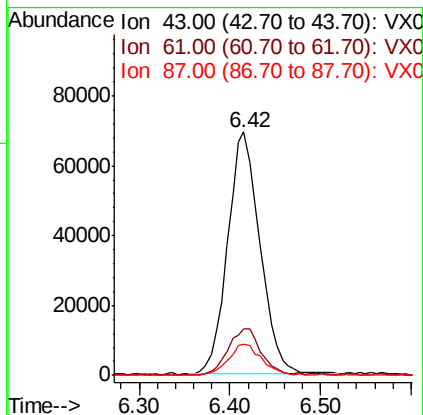
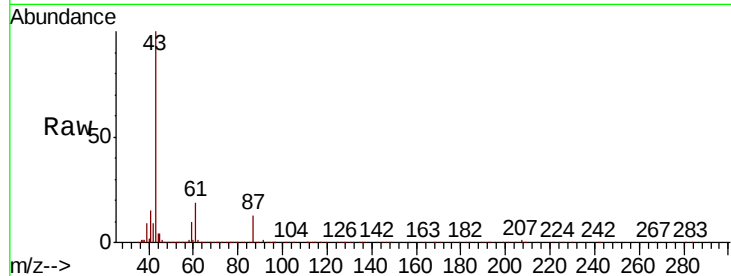


#43

Isopropyl Acetate
 Concen: 11.652 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VX017519.D
 Acq: 24 Jul 2020 02:37

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130403ZHE#09

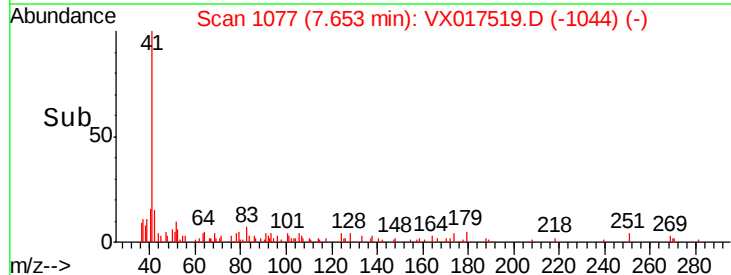
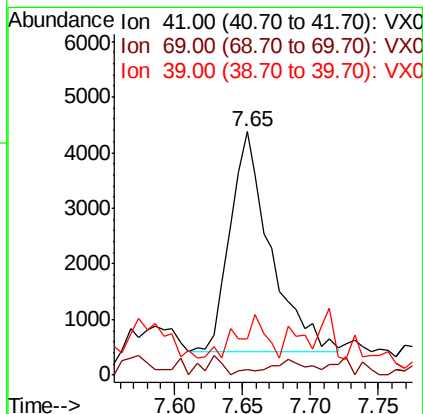
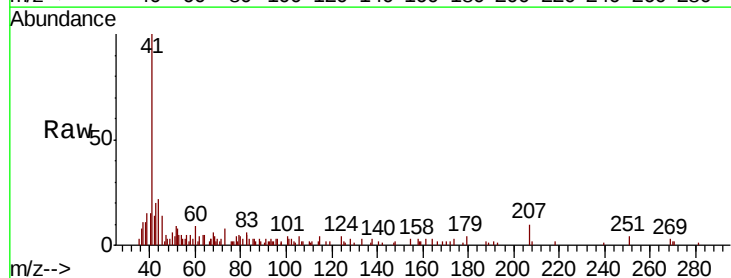
Tot Ion	43	Resp	171460
Ion Ratio	Lower	Upper	
43	100		
61	19.5	15.5	23.3
87	13.4	10.5	15.7

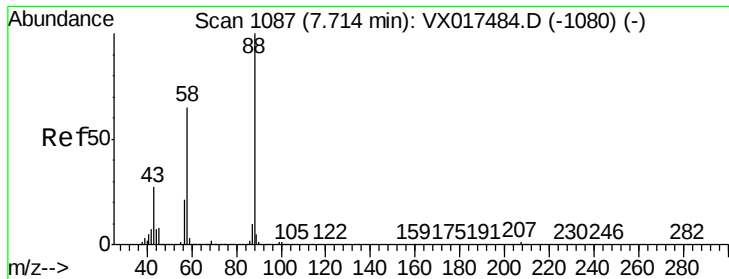


#48

Methyl methacrylate
 Concen: 1.125 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.10 min
 Lab File: VX017519.D
 Acq: 24 Jul 2020 02:37

Tgt Ion	41	Resp	8204
Ion Ratio	Lower	Upper	
41	100		
69	0.0	63.1	94.7#
39	0.0	45.1	67.7#





#49

1,4-Dioxane

Concen: 0.615 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#09

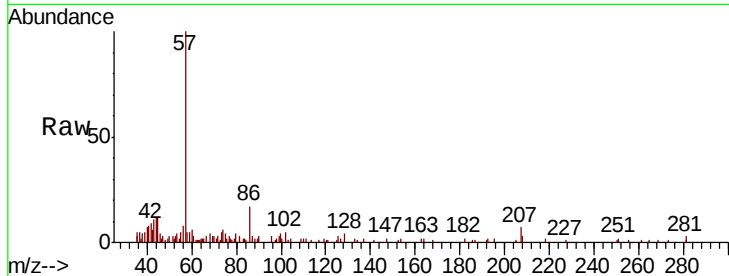
Tot Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

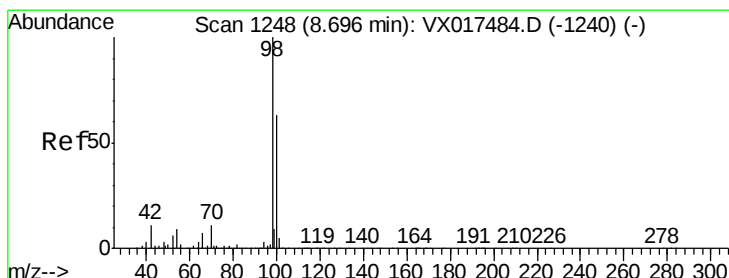
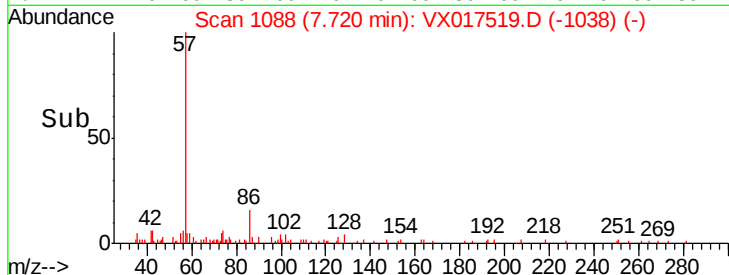
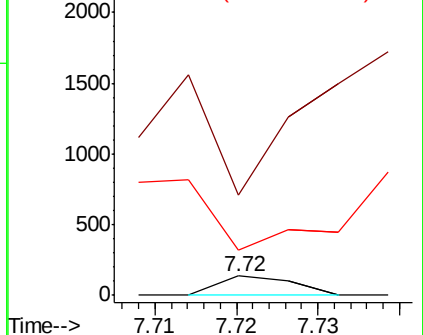
58 0.0 58.3 87.5#



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: 46.419 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017519.D

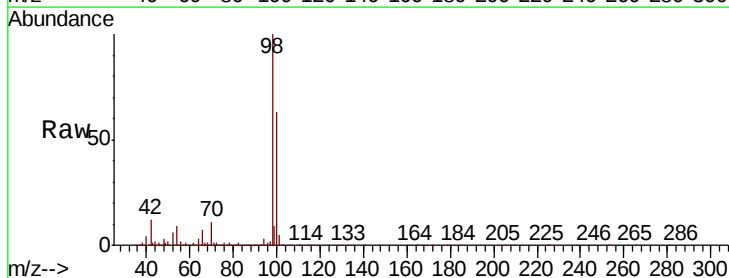
Acq: 24 Jul 2020 02:37

Tgt Ion: 98 Resp: 951871

Ion Ratio Lower Upper

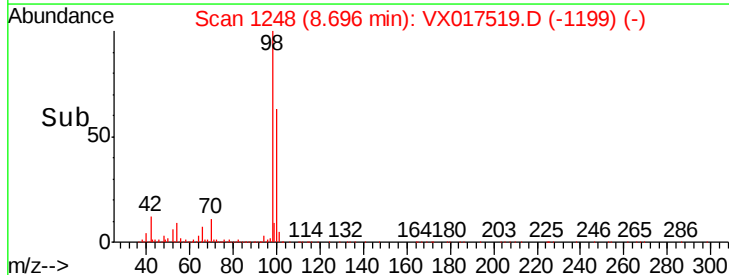
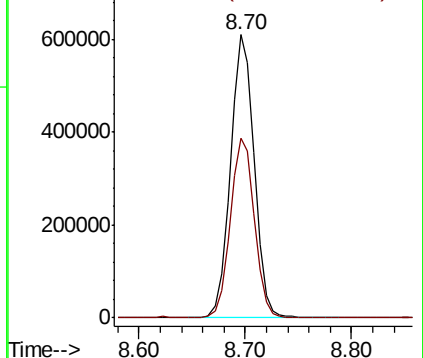
98 100

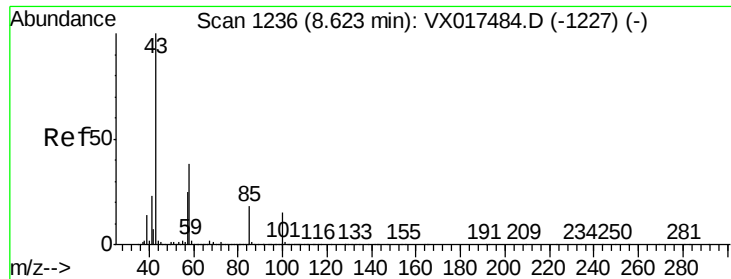
100 64.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 19.179 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

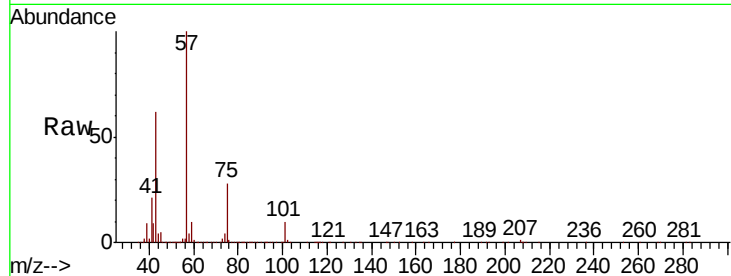
PB130403ZHE#09

Tot Ion: 43 Resp: 168398

Ion Ratio Lower Upper

43 100

58 6.1 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

120000

100000

80000

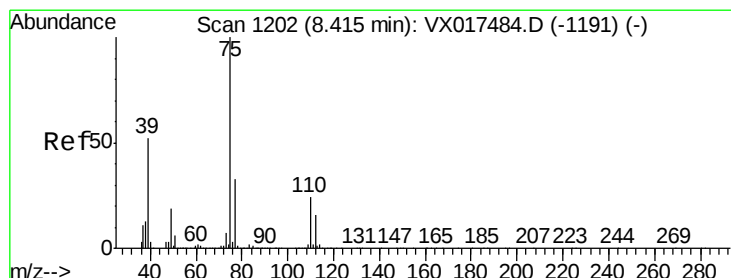
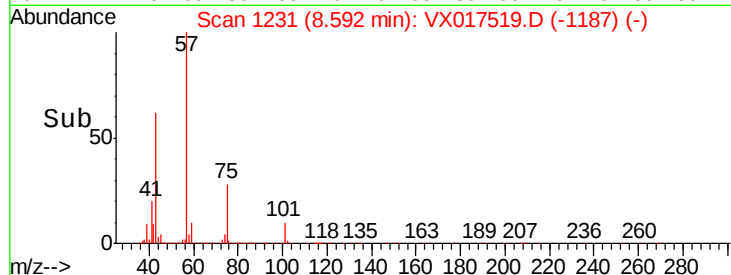
60000

40000

20000

0

Time--> 8.50 8.55 8.60 8.65 8.70



#54

cis-1,3-Dichloropropene

Concen: 6.443 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

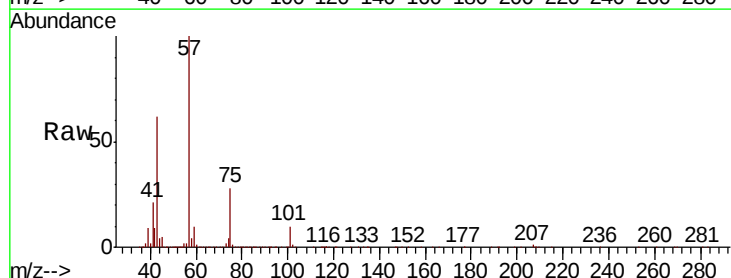
Tgt Ion: 75 Resp: 67768

Ion Ratio Lower Upper

75 100

77 1.0 25.5 38.3#

39 32.3 41.8 62.8#



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

8.59

60000

50000

40000

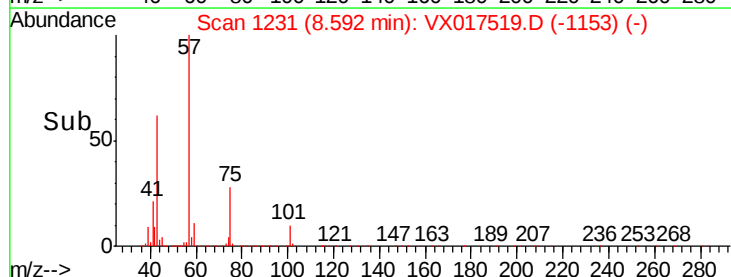
30000

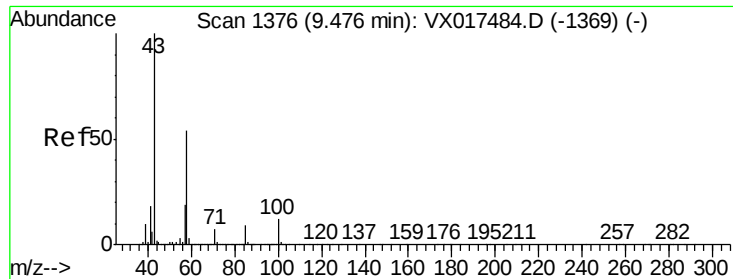
20000

10000

0

Time--> 8.50 8.55 8.60 8.65 8.70

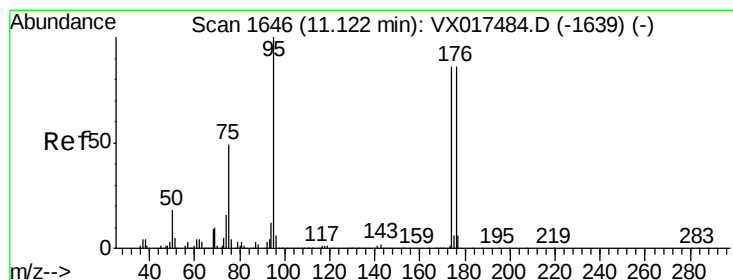
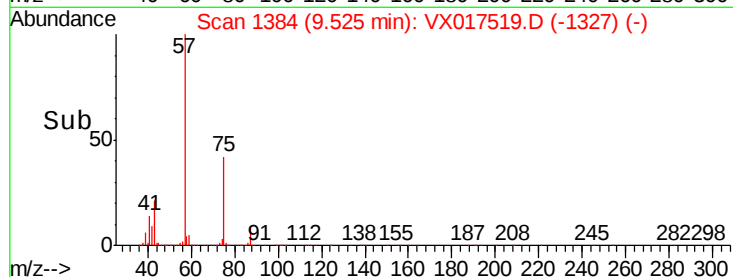
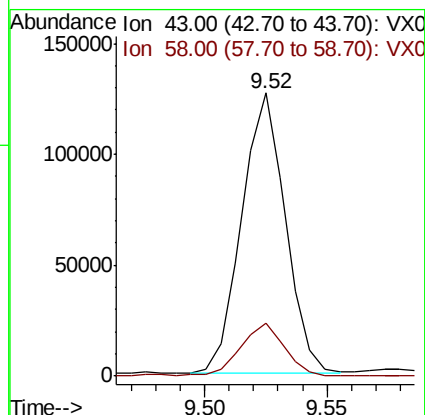
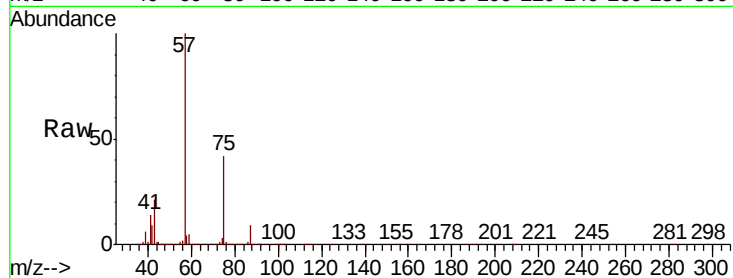




#59
2-Hexanone
Concen: 23.861 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

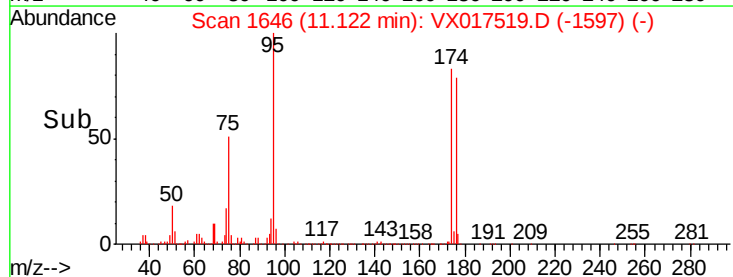
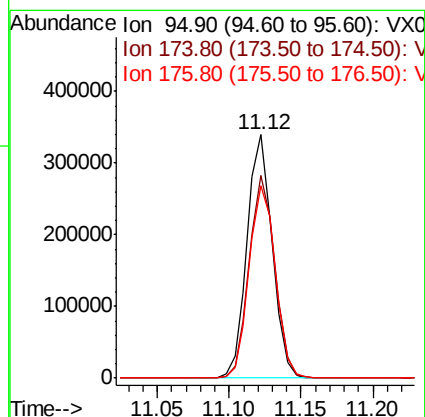
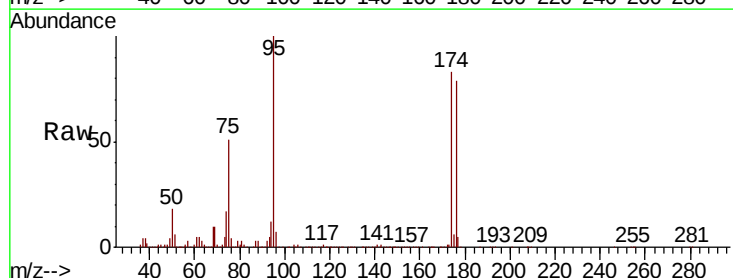
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

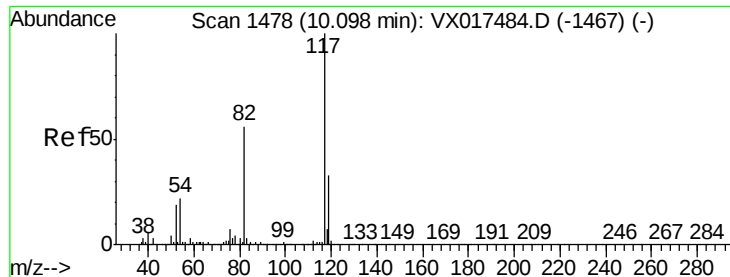
Tot Ion: 43 Resp: 157734
Ion Ratio Lower Upper
43 100
58 18.8 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 49.908 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

Tgt Ion: 95 Resp: 409570
Ion Ratio Lower Upper
95 100
174 84.7 0.0 169.0
176 82.4 0.0 161.0

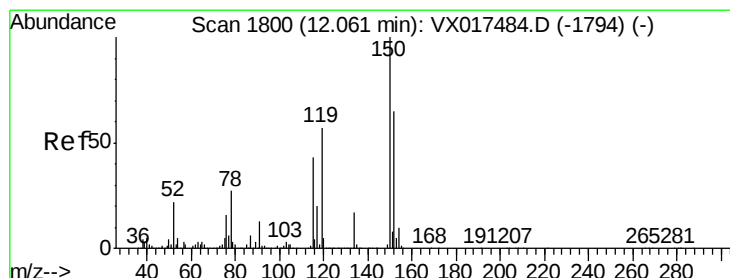
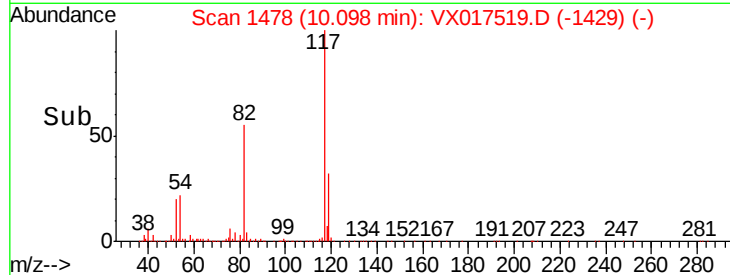
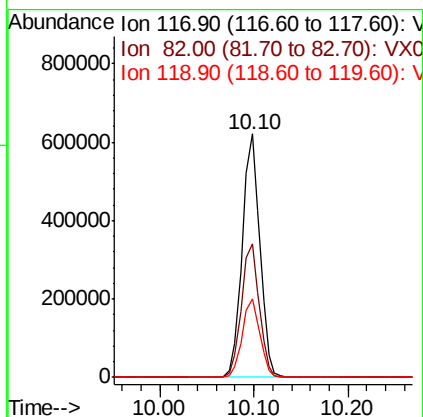
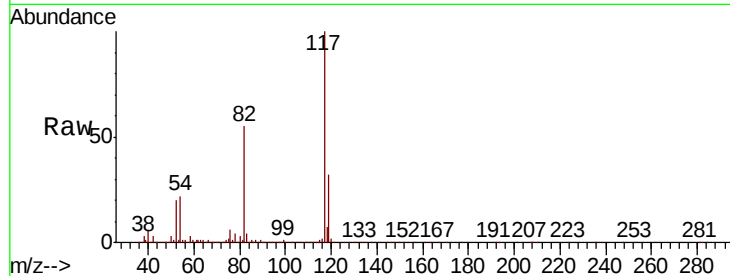




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

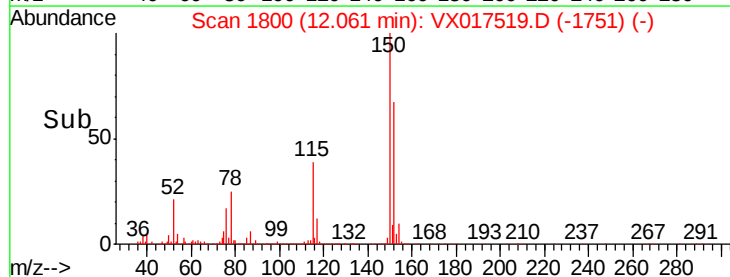
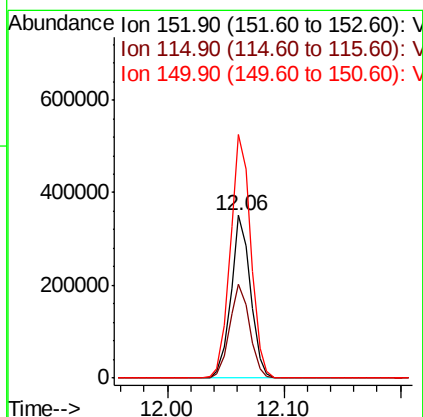
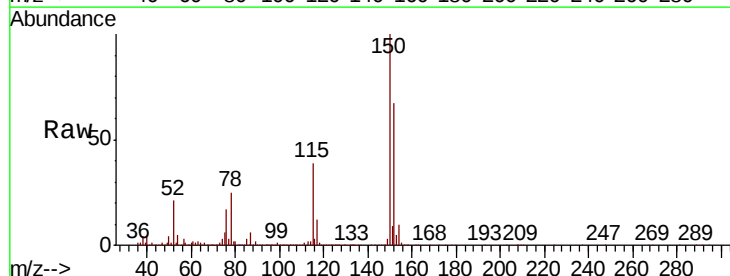
Instrument :
MSVOA_X
ClientSampleId :
PB130403ZHE#09

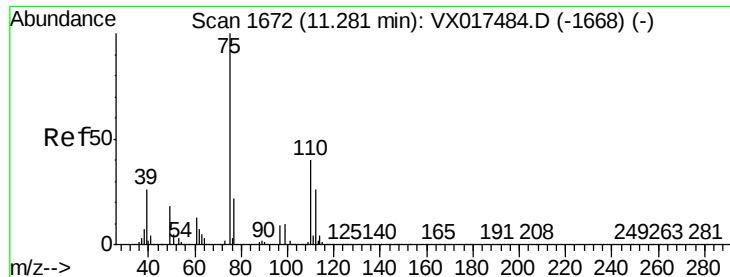
Tot Ion:117 Resp: 810324
Ion Ratio Lower Upper
117 100
82 54.6 44.0 66.0
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017519.D
Acq: 24 Jul 2020 02:37

Tgt Ion:152 Resp: 410624
Ion Ratio Lower Upper
152 100
115 58.9 65.5 196.6#
150 156.5 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 24.918 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

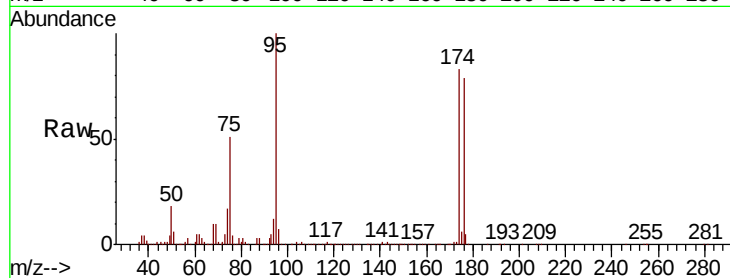
PB130403ZHE#09

Tot Ion: 75 Resp: 210478

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

200000

150000

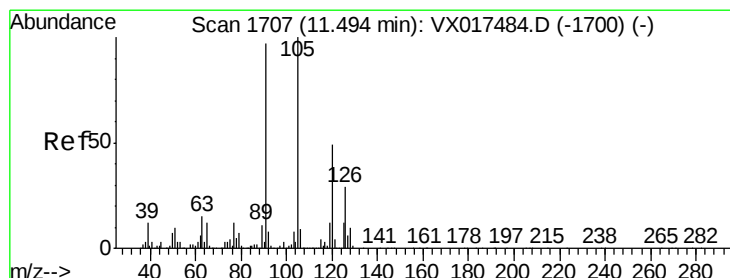
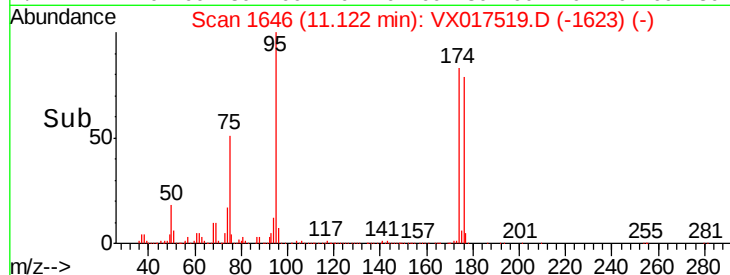
100000

50000

0

11.10 11.20

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.635 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017519.D

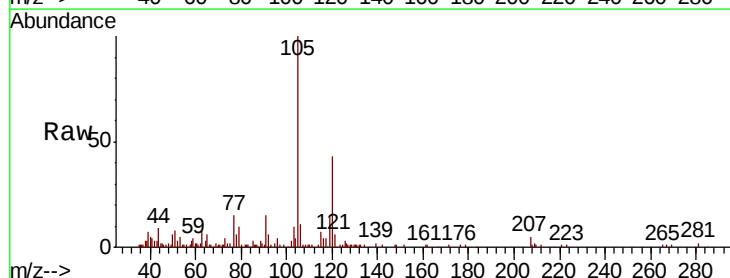
Acq: 24 Jul 2020 02:37

Tgt Ion: 105 Resp: 15284

Ion Ratio Lower Upper

105 100

120 47.3 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

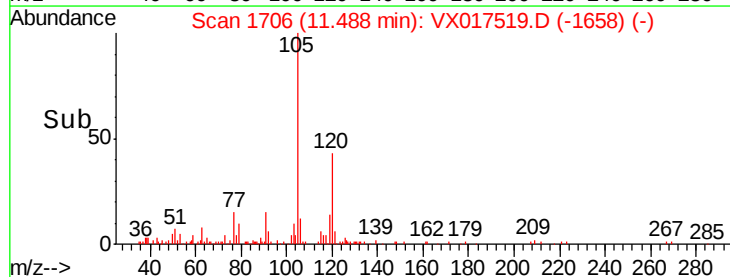
10000

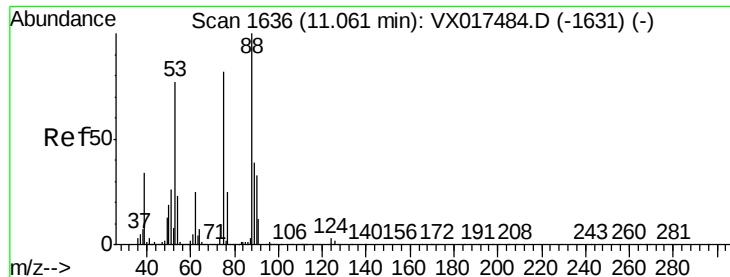
5000

0

11.45 11.50 11.55

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 62.789 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

Instrument :

MSVOA_X

ClientSampleId :

PB130403ZHE#09

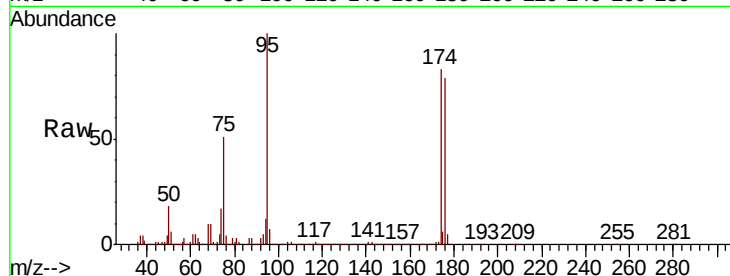
Tot Ion: 75 Resp: 210478

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

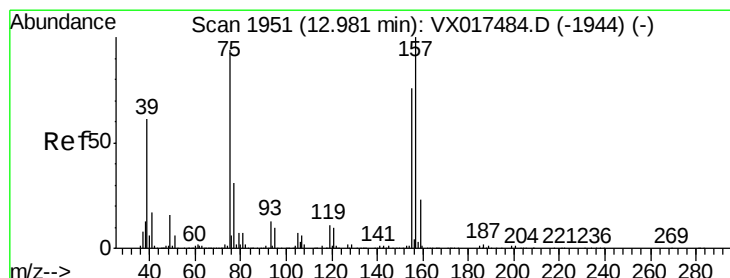
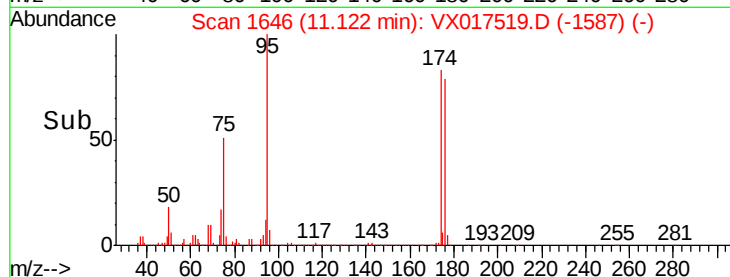
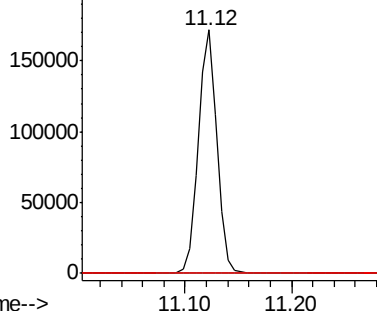
89 0.0 37.8 56.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.638 ug/l

RT: 12.97 min Scan# 1949

Delta R.T. -0.01 min

Lab File: VX017519.D

Acq: 24 Jul 2020 02:37

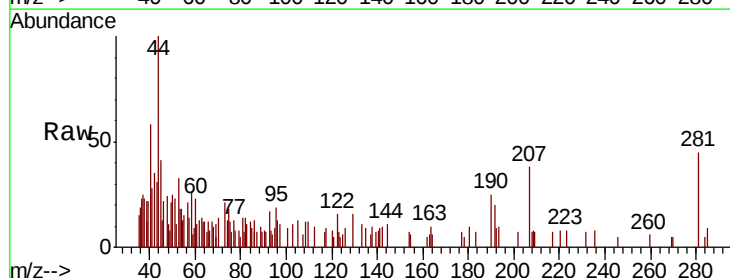
Tgt Ion: 75 Resp: 161

Ion Ratio Lower Upper

75 100

155 77.6 42.3 126.8

157 41.0 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

