

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052720\
 Data File : VX016461.D
 Acq On : 27 May 2020 21:24
 Operator : JC/SP
 Sample : PB129126TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129126TB

Quant Time: May 28 03:00:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	276144	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	451509	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	438119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	219693	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	166741	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	5.47	113	131810	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	8.70	98	561063	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	223346	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	

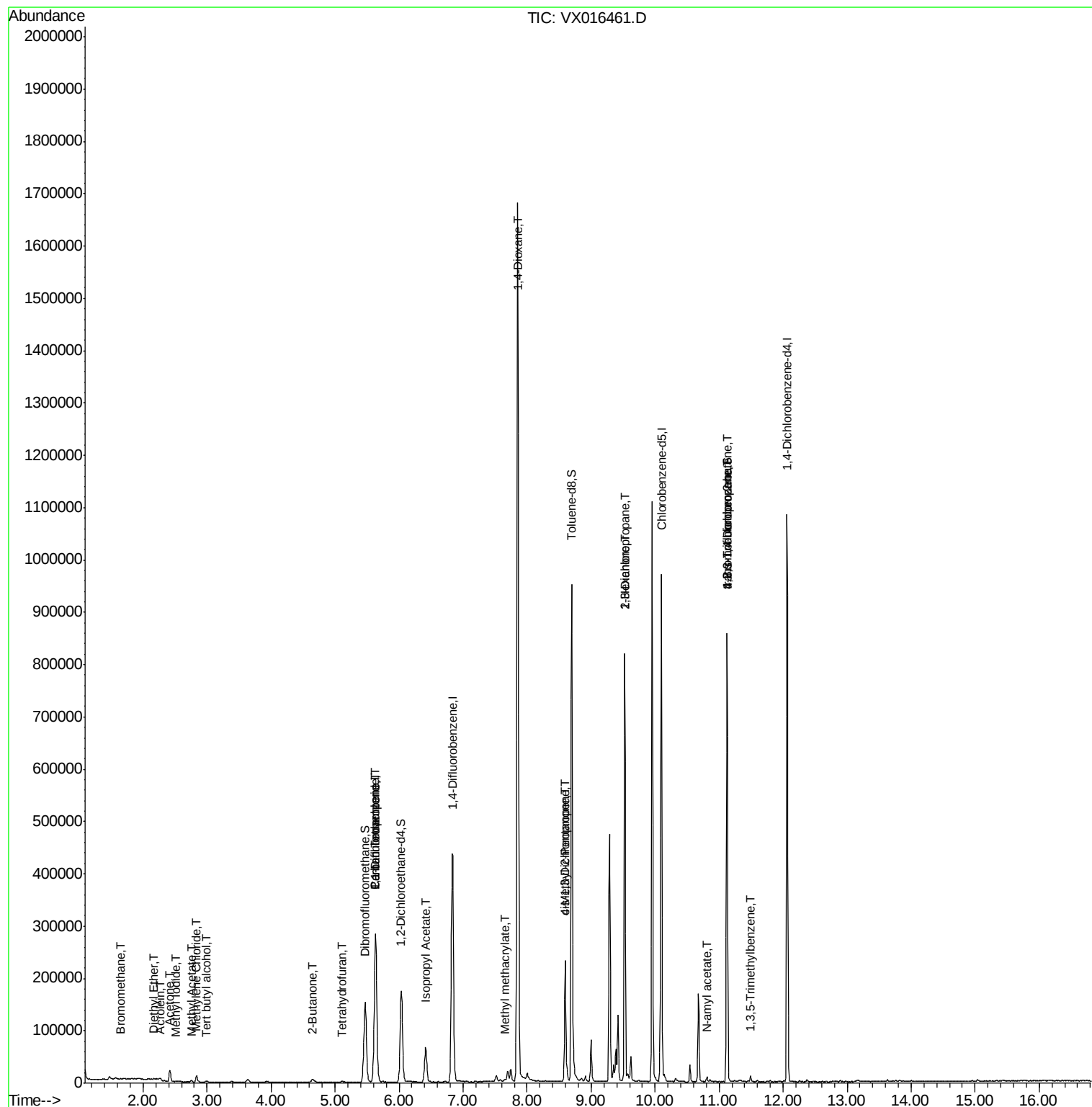
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	452	0.268	ug/l #	32
8) Diethyl Ether	2.17	74	703	0.370	ug/l	71
10) Methyl Iodide	2.51	142	72	3.078	ug/l #	71
11) Tert butyl alcohol	2.99	59	1253	1.425	ug/l #	72
13) Acrolein	2.27	56	199	0.532	ug/l #	63
16) Acetone	2.42	43	22606	15.046	ug/l	98
18) Methyl Acetate	2.75	43	4122	1.070	ug/l	95
20) Methylene Chloride	2.83	84	5768	1.856	ug/l	87
25) 2-Butanone	4.65	43	4639	1.822	ug/l	94
29) Tetrahydrofuran	5.12	42	1330	0.809	ug/l #	76
36) 1,1-Dichloropropene	5.64	75	20104	4.703	ug/l #	51
38) Carbon Tetrachloride	5.63	117	26659	5.934	ug/l #	17
43) Isopropyl Acetate	6.42	43	89409	11.168	ug/l	99
48) Methyl methacrylate	7.65	41	5273	1.376	ug/l #	14
49) 1,4-Dioxane	7.85	88	341	3.801	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	82635	16.577	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	40018	7.377	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	7489	1.367	ug/l #	44
59) 2-Hexanone	9.52	43	91524	23.610	ug/l #	49
74) N-amyl acetate	10.81	43	4436	0.634	ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	108728	22.516	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	4305	0.339	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.12	75	108728	55.385	ug/l #	14

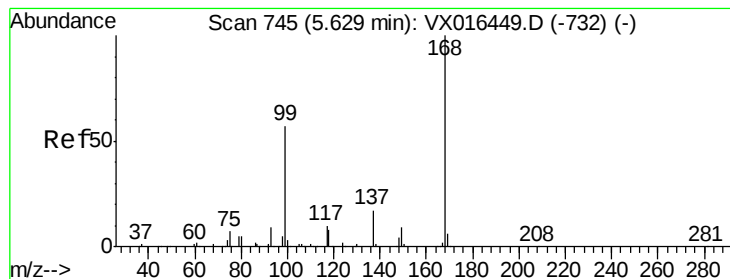
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

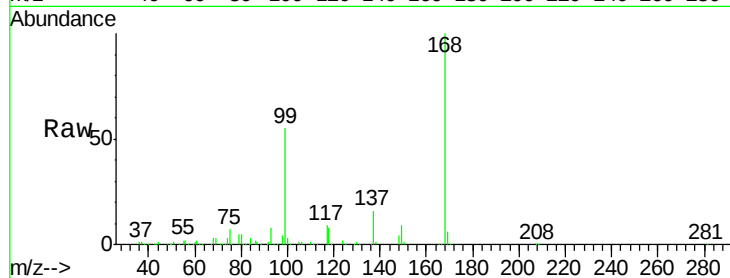
PB129126TB

Tot Ion:168 Resp: 276144

Ion Ratio Lower Upper

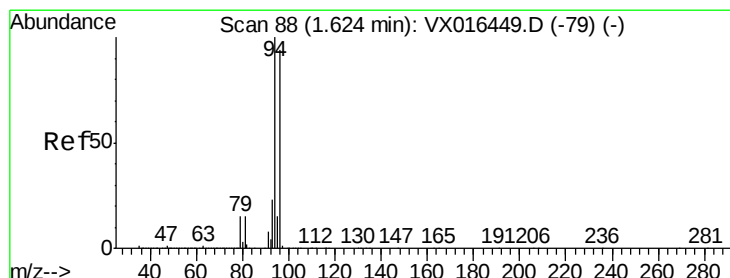
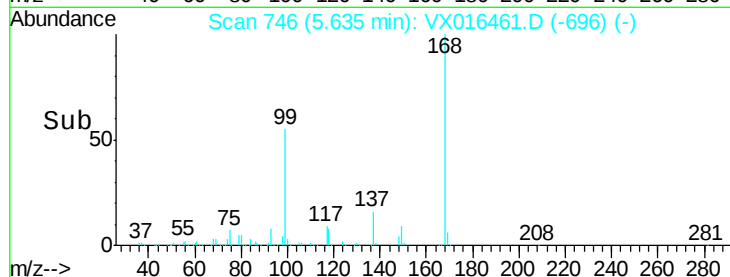
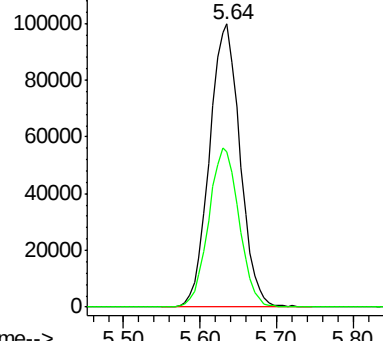
168 100

99 54.9 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.268 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016461.D

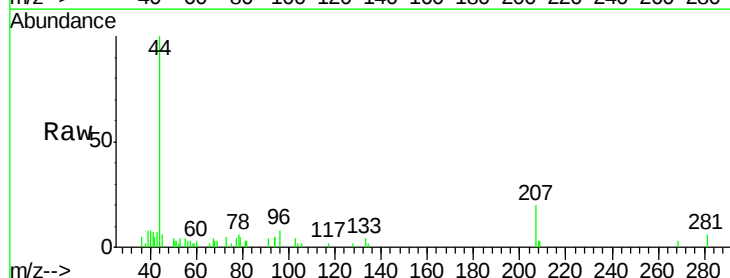
Acq: 27 May 2020 21:24

Tgt Ion: 94 Resp: 452

Ion Ratio Lower Upper

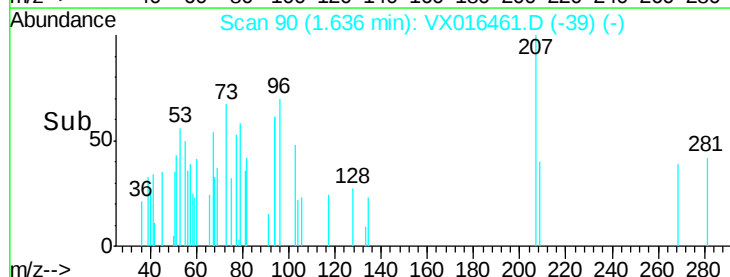
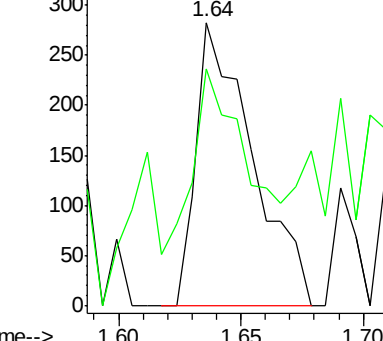
94 100

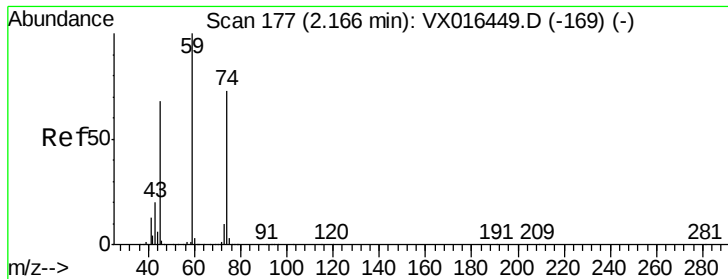
96 28.6 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.370 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

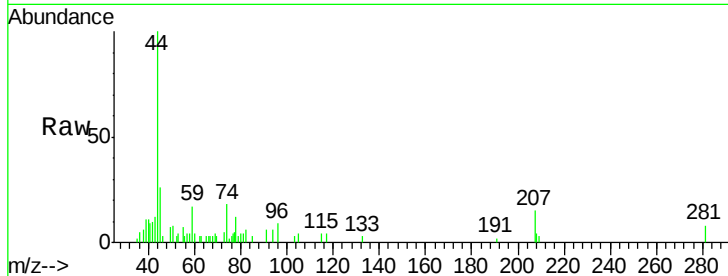
PB129126TB

Tot Ion: 74 Resp: 703

Ion Ratio Lower Upper

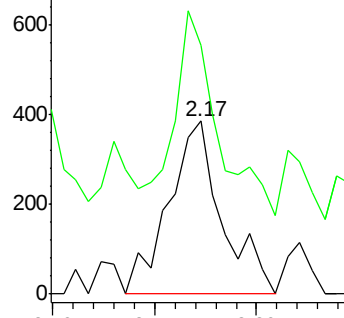
74 100

45 122.8 47.5 142.5

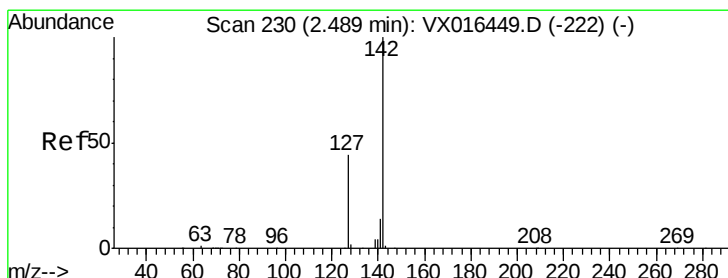
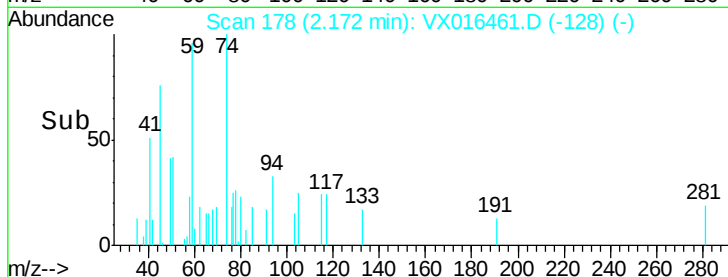


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 3.078 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

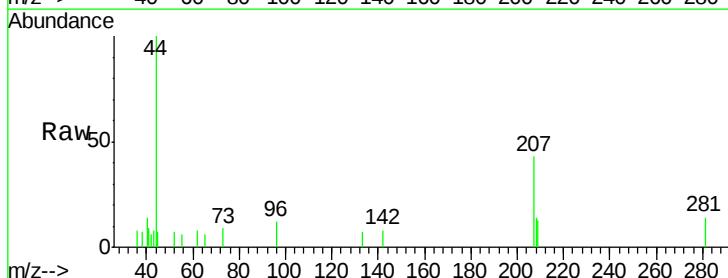
Tgt Ion: 142 Resp: 72

Ion Ratio Lower Upper

142 100

127 26.4 35.3 52.9#

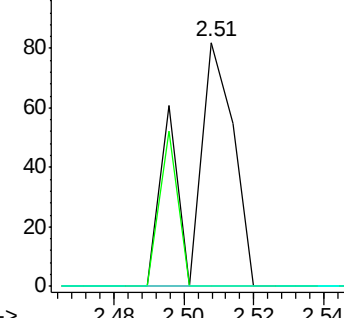
141 0.0 11.4 17.2#



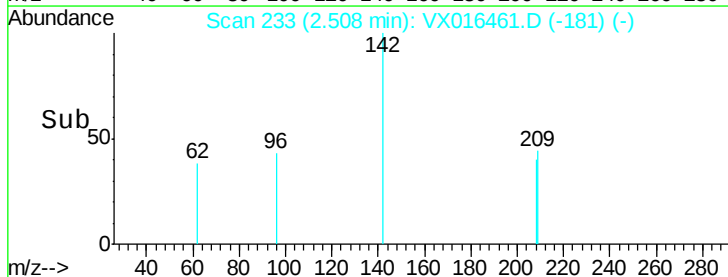
Abundance Ion 141.80 (141.50 to 142.50): V

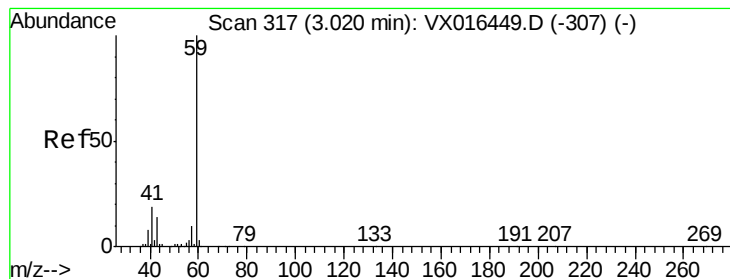
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



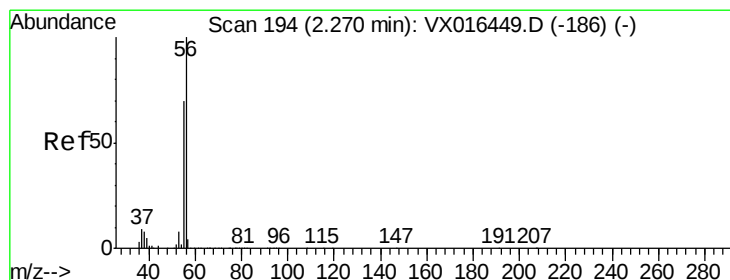
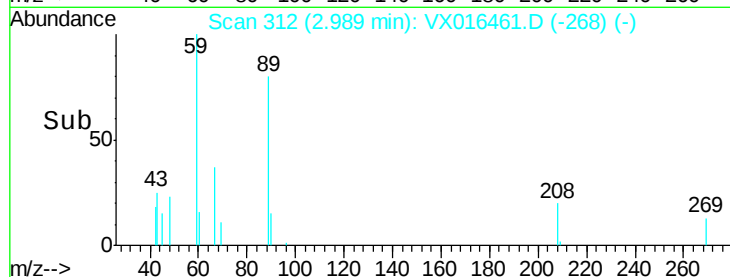
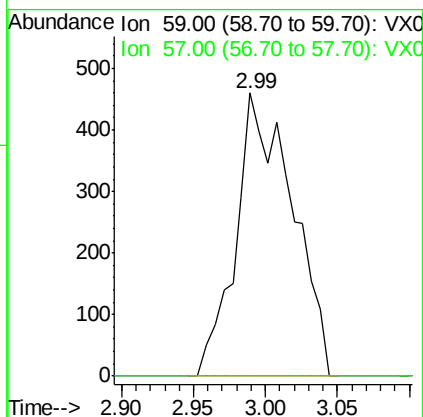
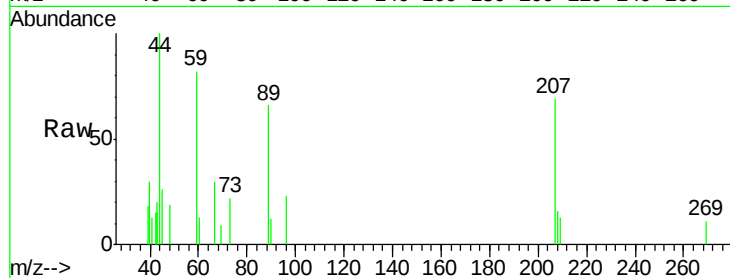


#11

Tert butvl alcohol
Concen: 1.425 ug/l
RT: 2.99 min Scan# 312
Delta R.T. -0.03 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Instrument :
MSVOA_X
ClientSampleId :
PB129126TB

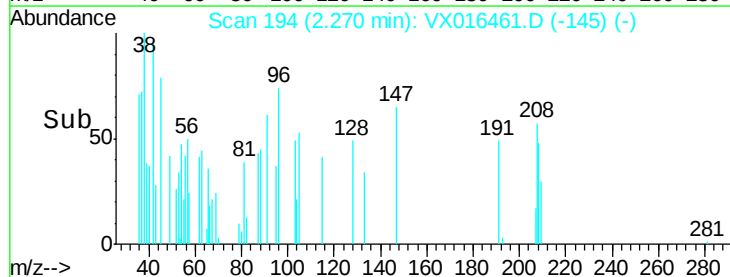
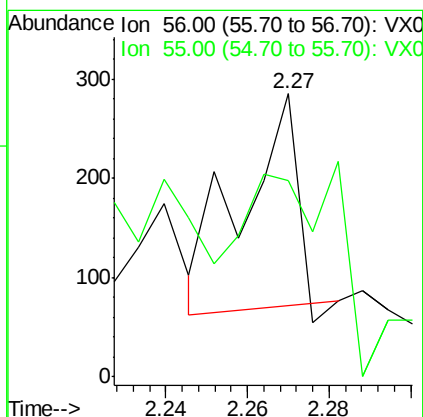
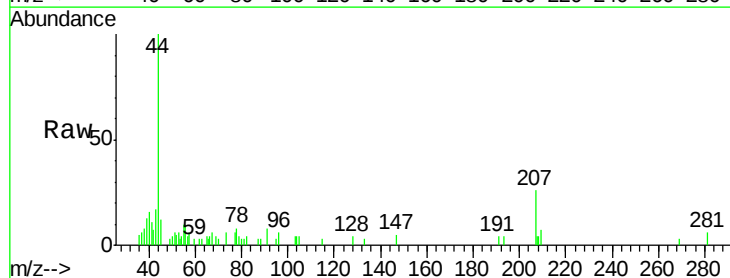
Tot Ion: 59 Resp: 1253
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

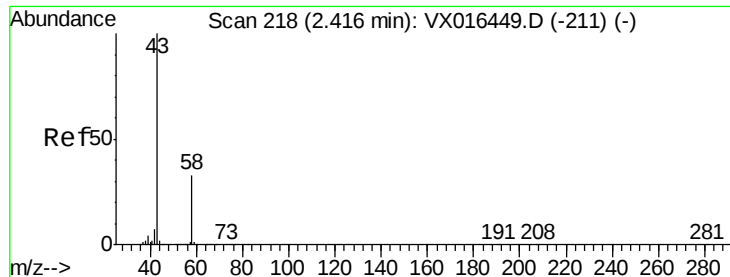


#13

Acrolein
Concen: 0.532 ug/l
RT: 2.27 min Scan# 194
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion: 56 Resp: 199
Ion Ratio Lower Upper
56 100
55 103.5 58.3 87.5#

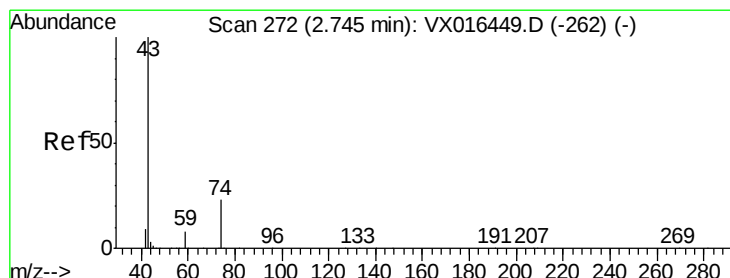
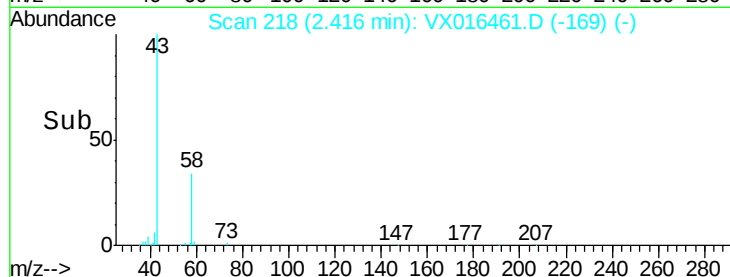
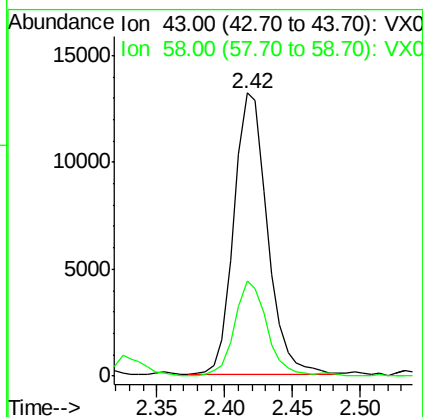
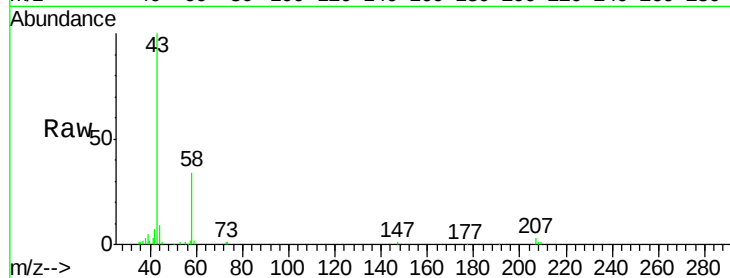




#16
Acetone
Concen: 15.046 ug/l
RT: 2.42 min Scan# 218
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

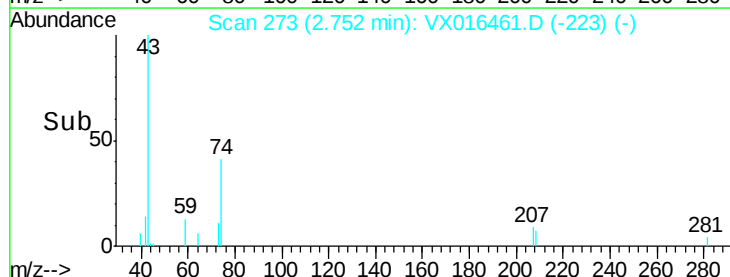
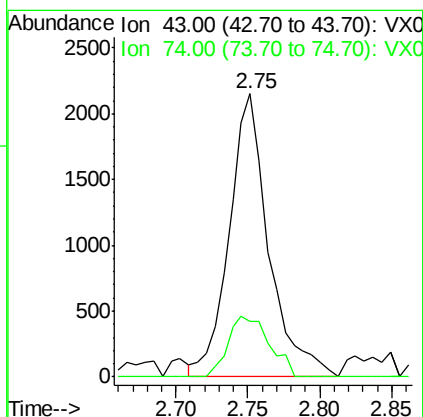
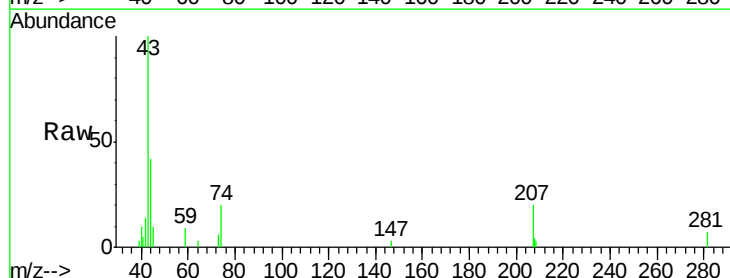
Instrument :
MSVOA_X
ClientSampled :
PB129126TB

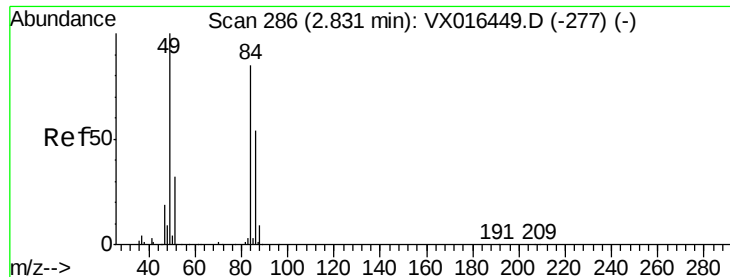
Tot Ion: 43 Resp: 22606
Ion Ratio Lower Upper
43 100
58 33.8 26.1 39.1



#18
Methyl Acetate
Concen: 1.070 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion: 43 Resp: 4122
Ion Ratio Lower Upper
43 100
74 22.3 19.7 29.5

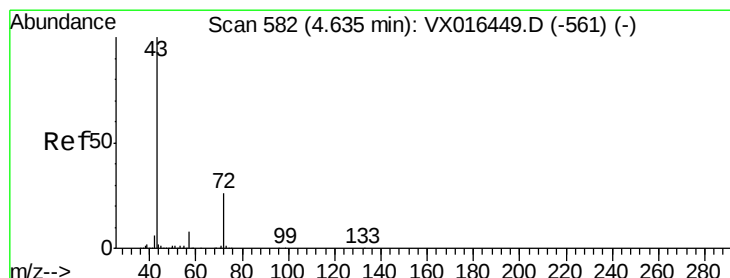
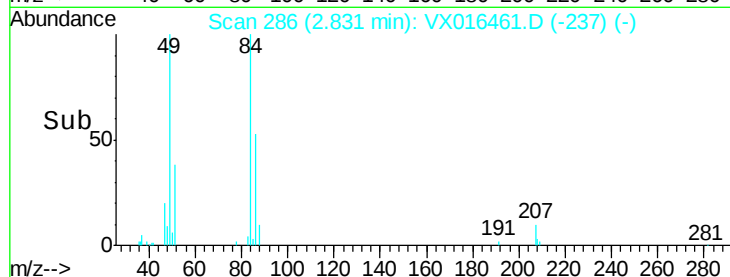
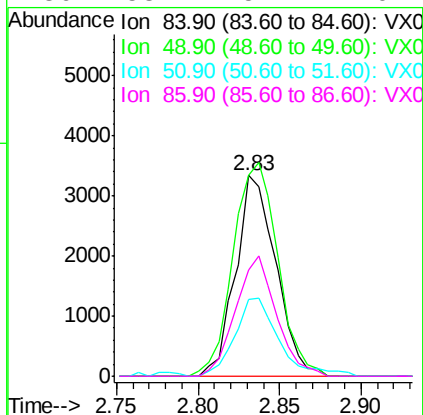
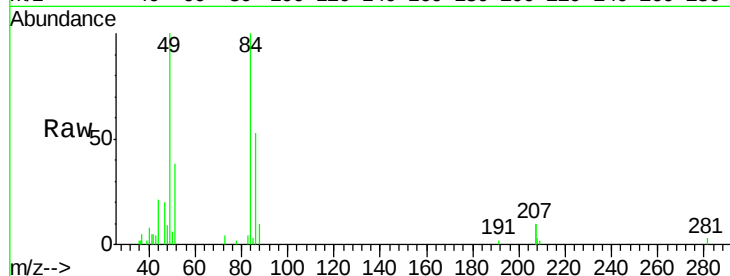




#20
Methvlene Chloride
Concen: 1.856 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

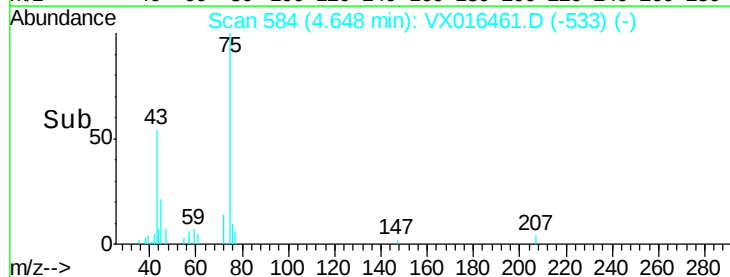
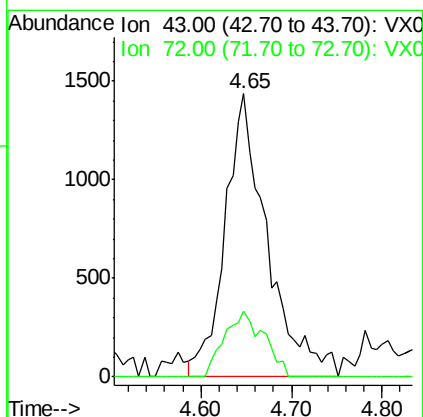
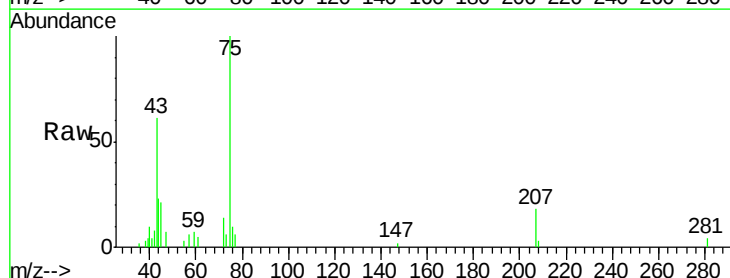
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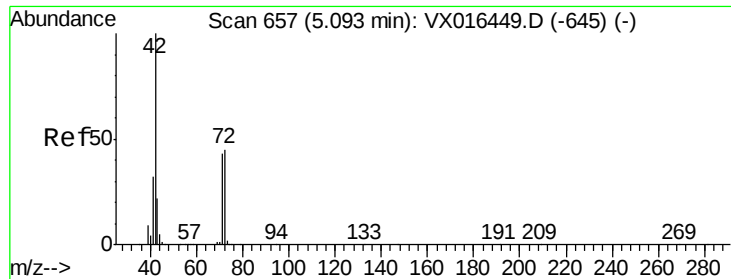
Tot Ion: 84 Resp: 5768
Ion Ratio Lower Upper
84 100
49 100.0 94.5 141.7
51 38.3 30.2 45.4
86 53.1 51.1 76.7



#25
2-Butanone
Concen: 1.822 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion: 43 Resp: 4639
Ion Ratio Lower Upper
43 100
72 23.4 21.0 31.6

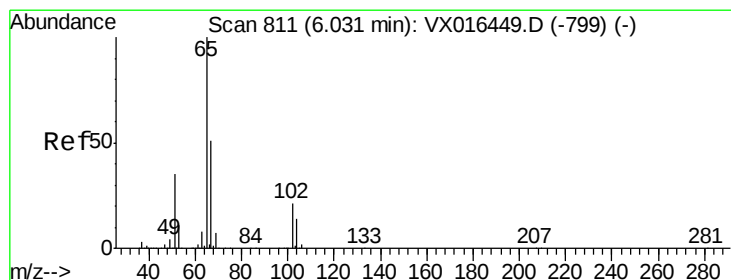
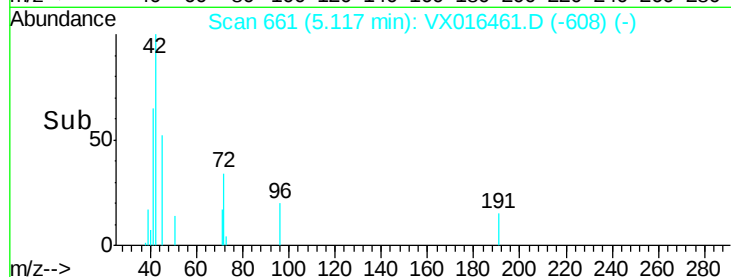
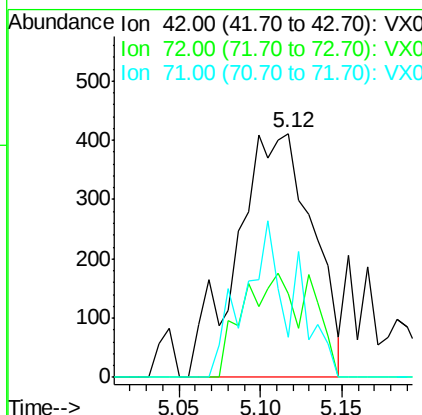
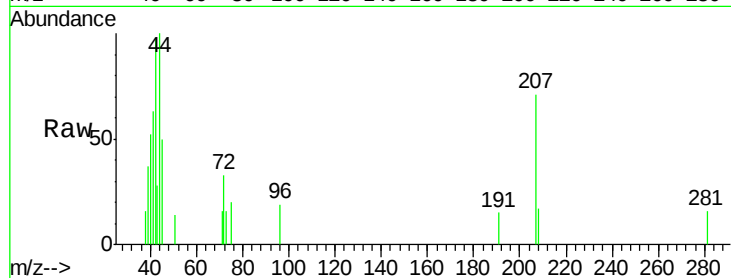




#29
Tetrahydrofuran
Concen: 0.809 ug/l
RT: 5.12 min Scan# 661
Delta R.T. 0.02 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

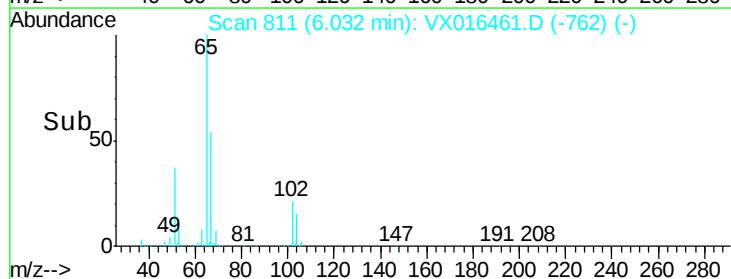
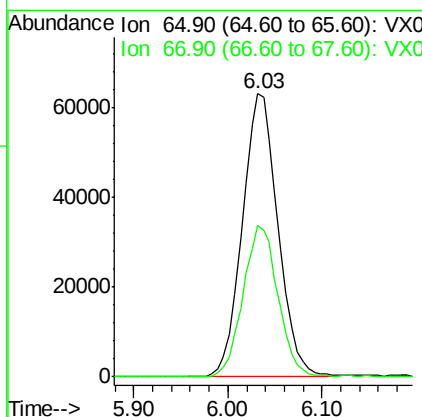
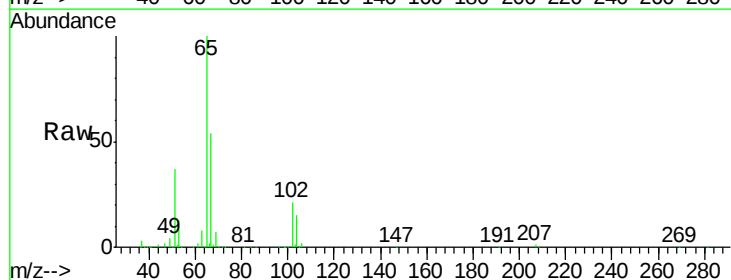
Instrument :
MSVOA_X
ClientSampled :
PB129126TB

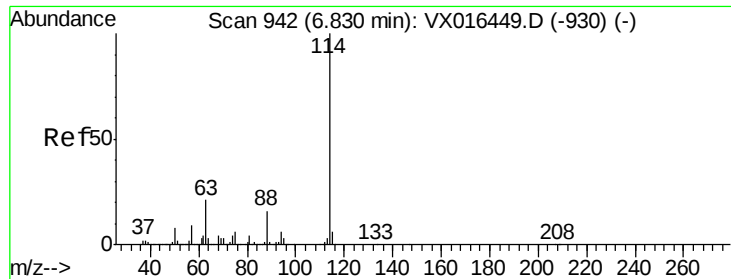
Tot Ion: 42 Resp: 1330
Ion Ratio Lower Upper
42 100
72 27.7 37.0 55.4#
71 30.1 34.1 51.1#



#33
1,2-Dichloroethane-d4
Concen: 48.622 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion: 65 Resp: 166741
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

PB129126TB

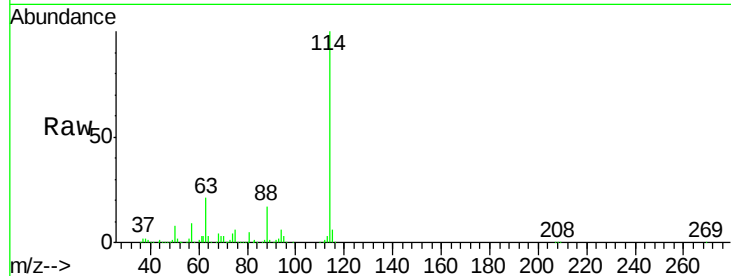
Tot Ion:114 Resp: 451509

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.6

88 17.1 0.0 32.8



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

250000

200000

150000

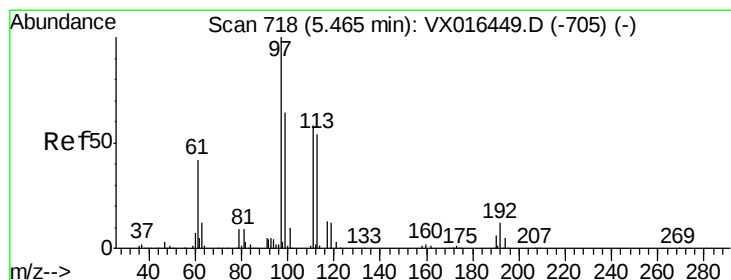
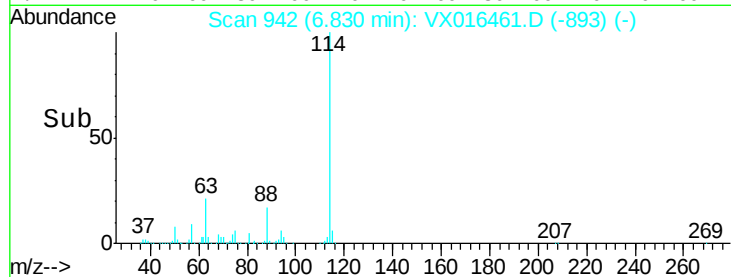
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 47.411 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

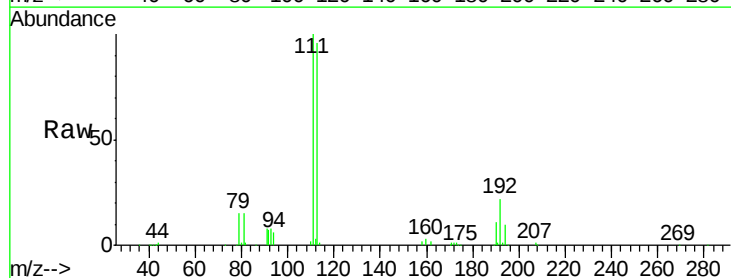
Tgt Ion:113 Resp: 131810

Ion Ratio Lower Upper

113 100

111 104.0 83.0 124.6

192 22.9 17.7 26.5



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

60000

50000

40000

30000

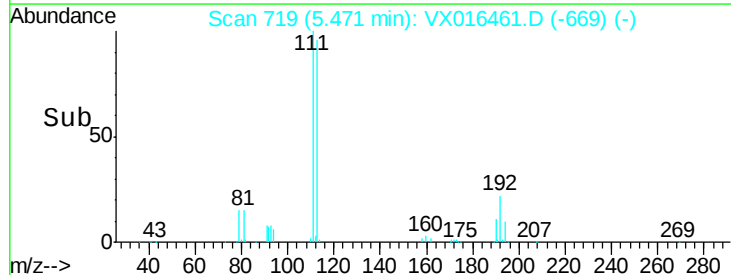
20000

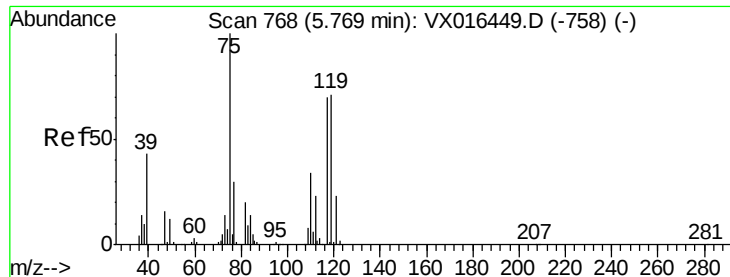
10000

0

5.30 5.40 5.50 5.60

Time-->

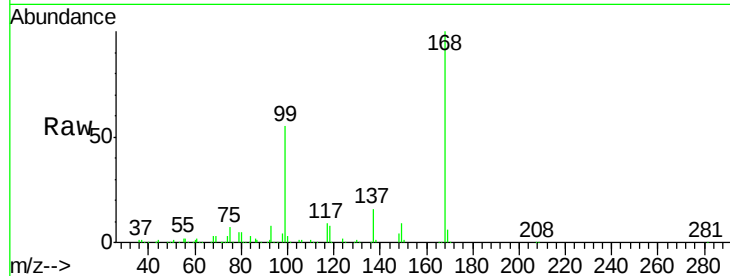




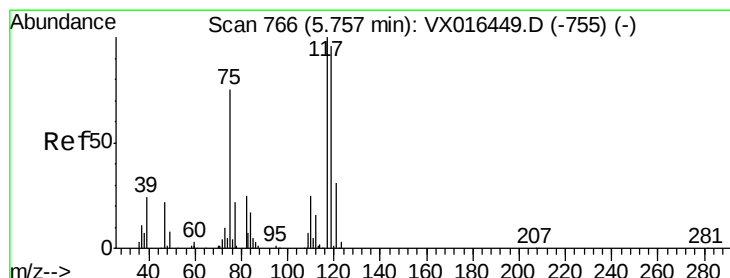
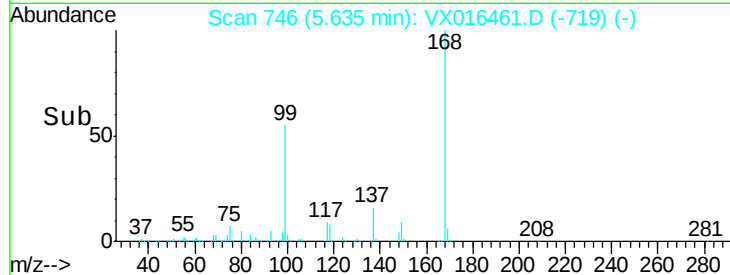
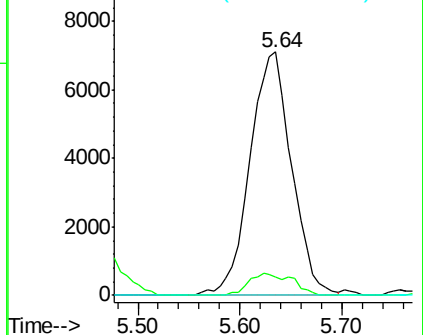
#36
 1,1-Dichloropropene
 Concen: 4.703 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016461.D
 Acq: 27 May 2020 21:24

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129126TB

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	17.4	52.3#
77	0.0	24.2	36.4#

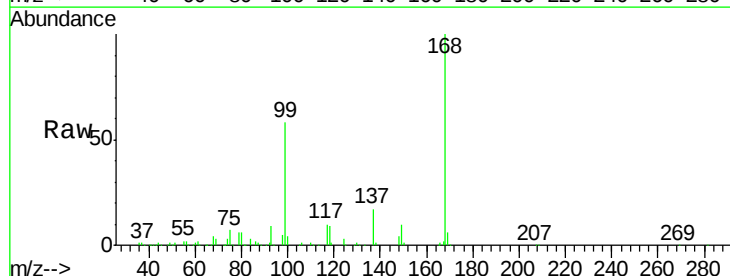


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

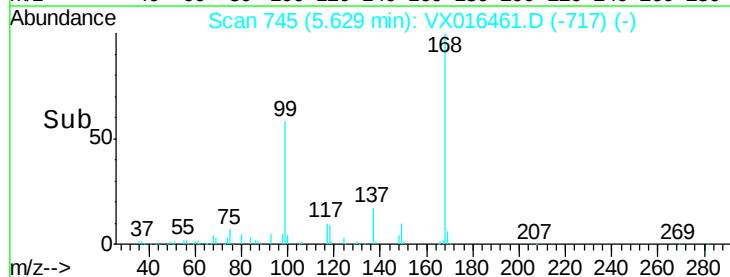
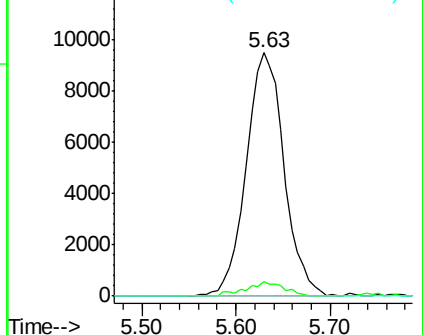


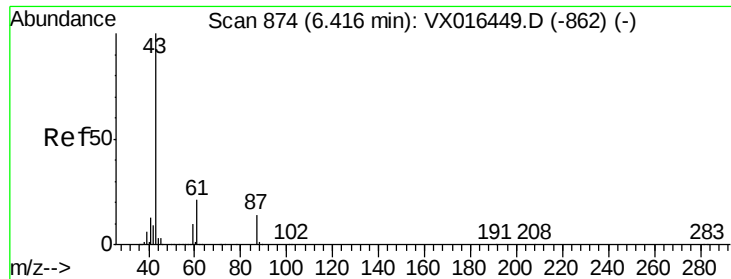
#38
 Carbon Tetrachloride
 Concen: 5.934 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016461.D
 Acq: 27 May 2020 21:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.3	114.5#
121	0.0	24.6	37.0#



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

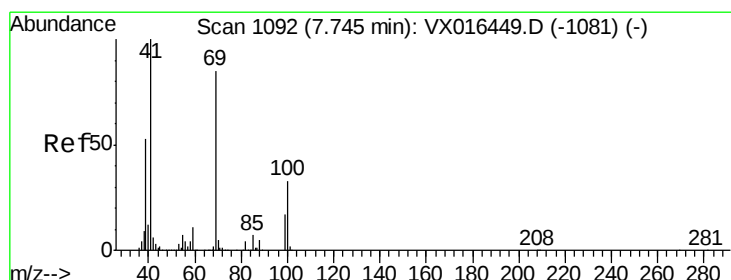
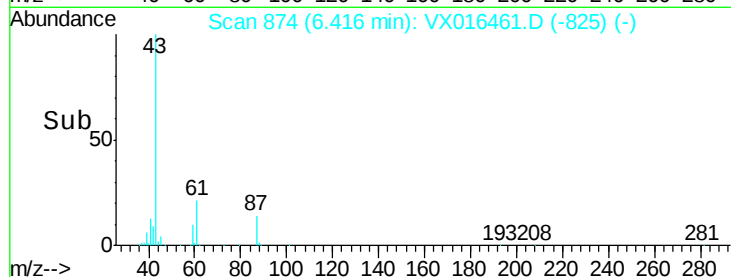
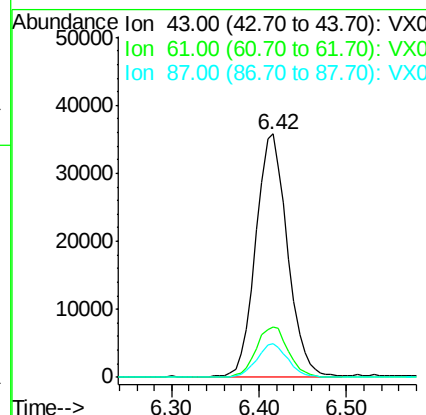
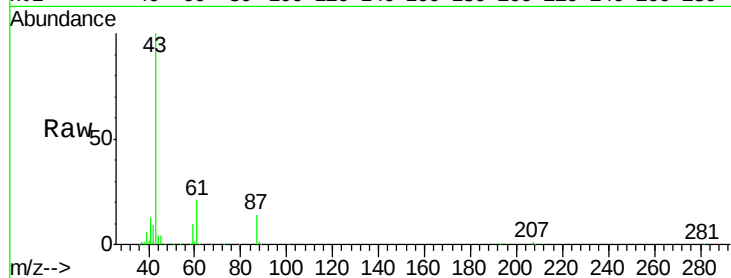




#43
Isopropyl Acetate
Concen: 11.168 ug/l
RT: 6.42 min Scan# 874
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

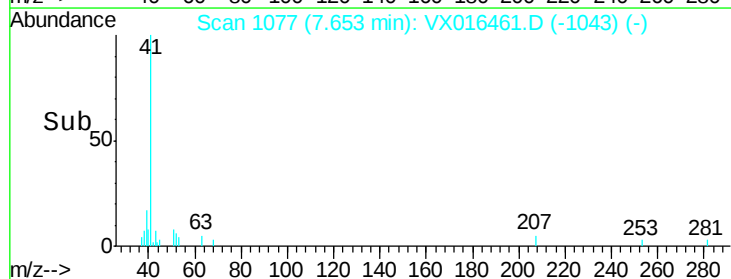
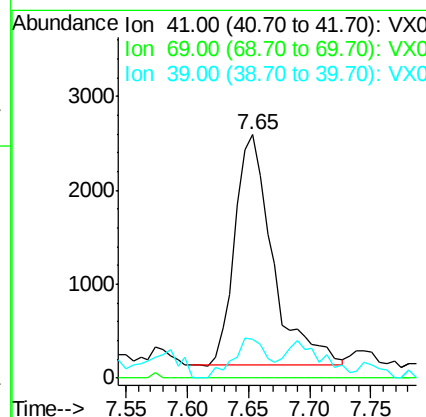
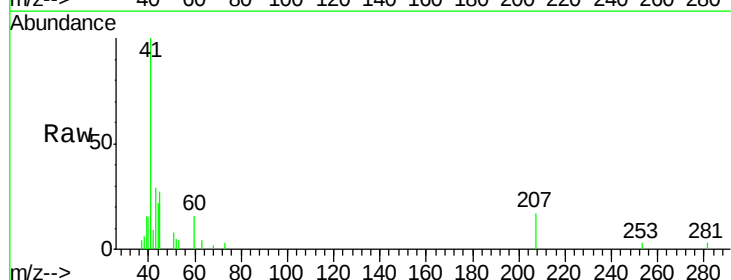
Instrument :
MSVOA_X
ClientSampleId :
PB129126TB

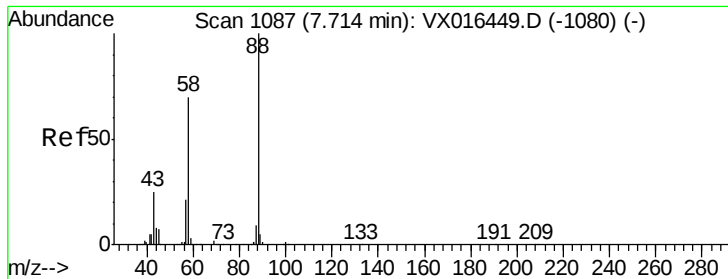
Tot Ion	43	Resp	89409
Ion Ratio	Lower	Upper	
43	100		
61	21.4	16.8	25.2
87	13.6	11.2	16.8



#48
Methyl methacrylate
Concen: 1.376 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion	41	Resp	5273
Ion Ratio	Lower	Upper	
41	100		
69	0.0	68.6	102.8#
39	0.0	42.4	63.6#





#49

1,4-Dioxane

Concen: 3.801 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

PB129126TB

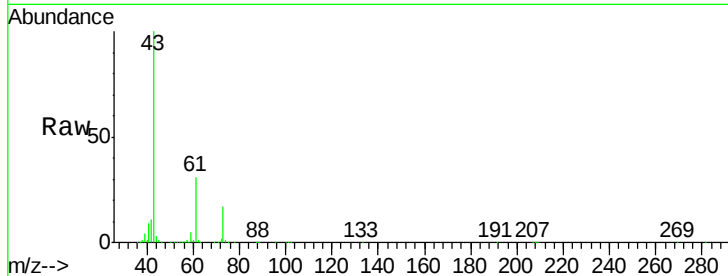
Tot Ion: 88 Resp: 341

Ion Ratio Lower Upper

88 100

43 456678.0 24.2 36.4#

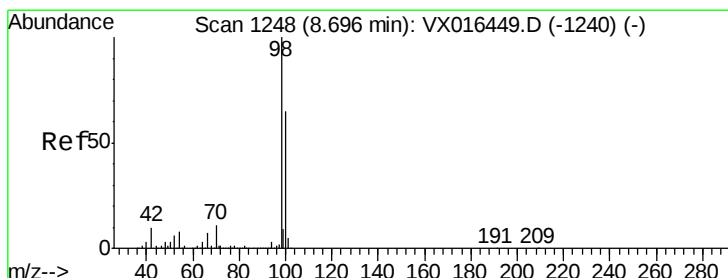
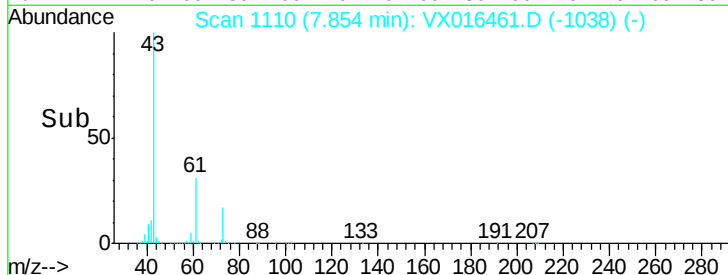
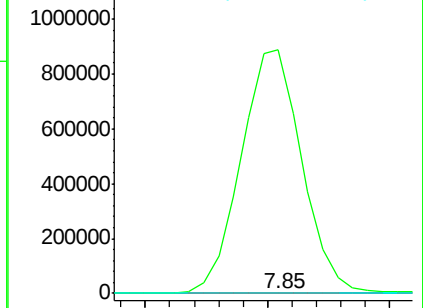
58 1958.4 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.850 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016461.D

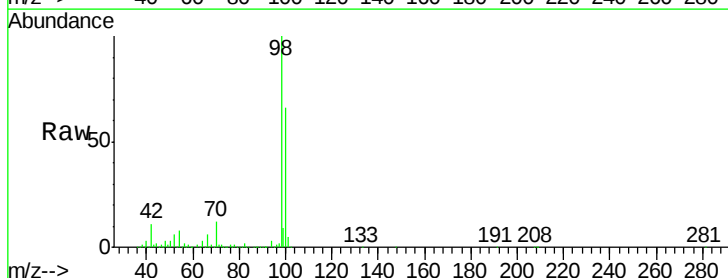
Acq: 27 May 2020 21:24

Tgt Ion: 98 Resp: 561063

Ion Ratio Lower Upper

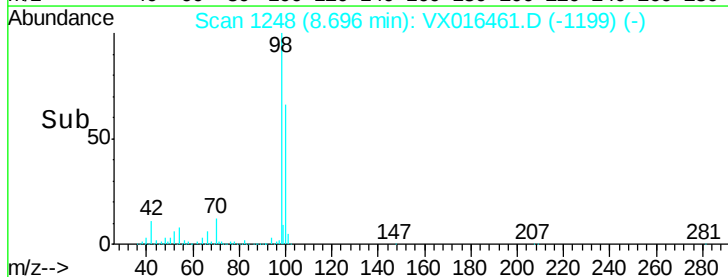
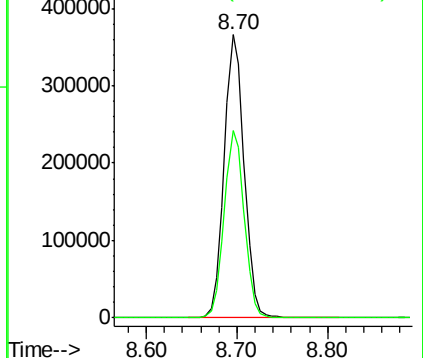
98 100

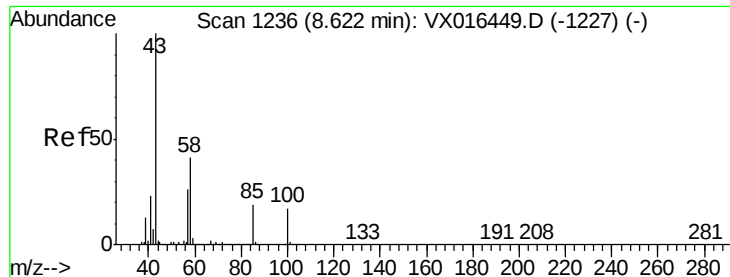
100 66.7 53.8 80.6



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: 16.577 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampled :

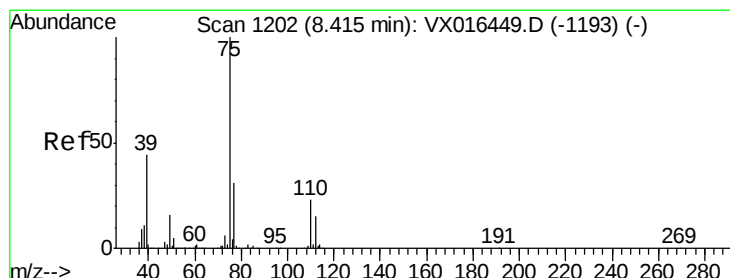
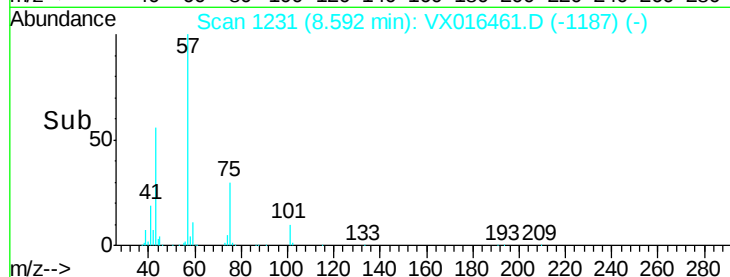
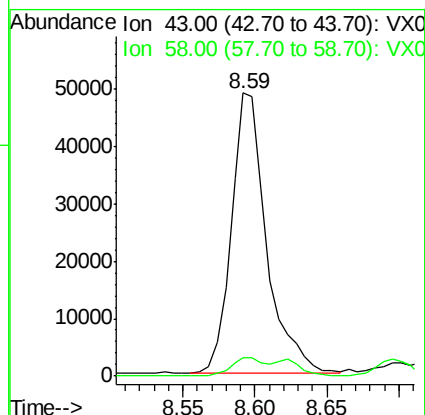
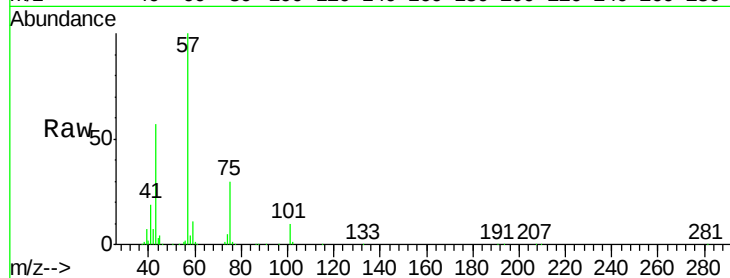
PB129126TB

Tot Ion: 43 Resp: 82635

Ion Ratio Lower Upper

43 100

58 6.6 33.0 49.6#



#54

cis-1,3-Dichloropropene

Concen: 7.377 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

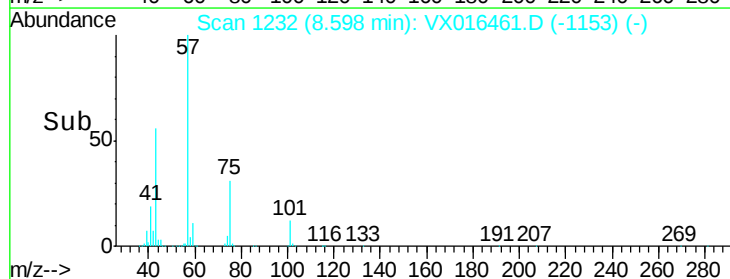
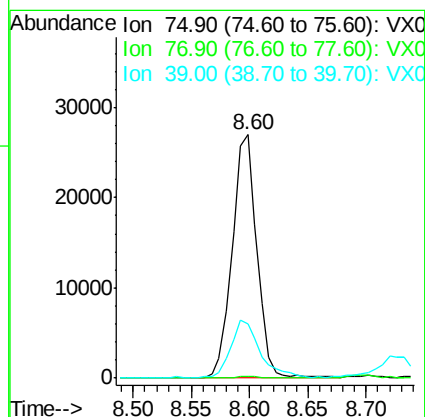
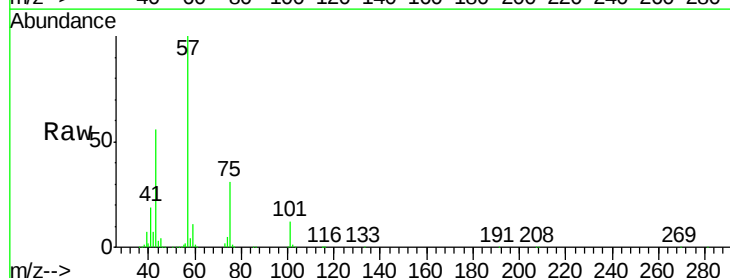
Tgt Ion: 75 Resp: 40018

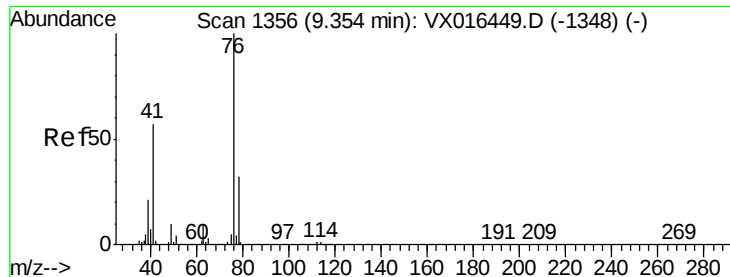
Ion Ratio Lower Upper

75 100

77 0.6 24.6 36.8#

39 21.8 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.367 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

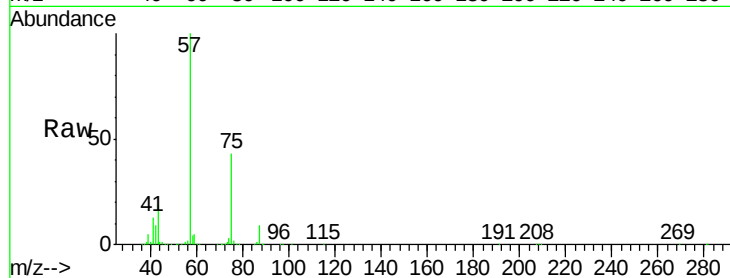
PB129126TB

Tot Ion: 76 Resp: 7489

Ion Ratio Lower Upper

76 100

78 1.4 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

6000

5000

4000

3000

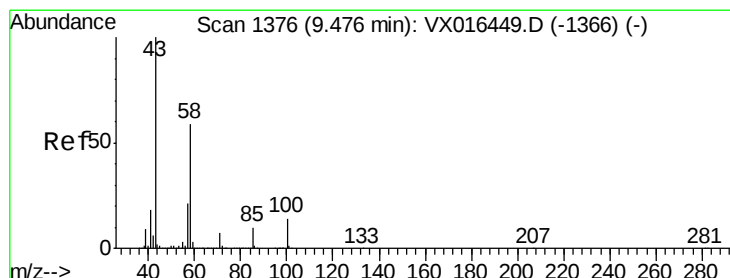
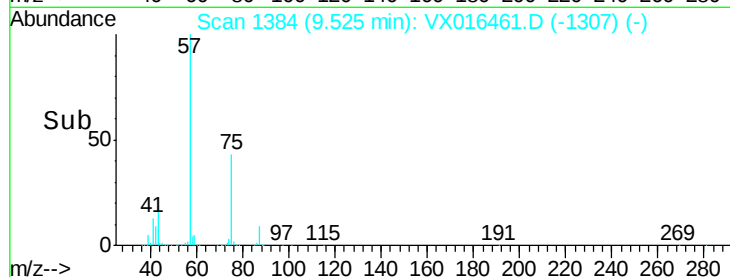
2000

1000

0

9.45 9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 23.610 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016461.D

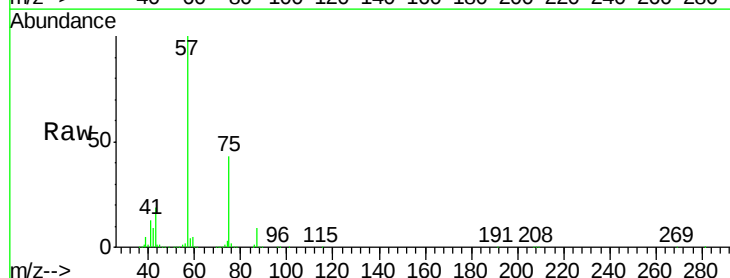
Acq: 27 May 2020 21:24

Tgt Ion: 43 Resp: 91524

Ion Ratio Lower Upper

43 100

58 20.1 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

80000

60000

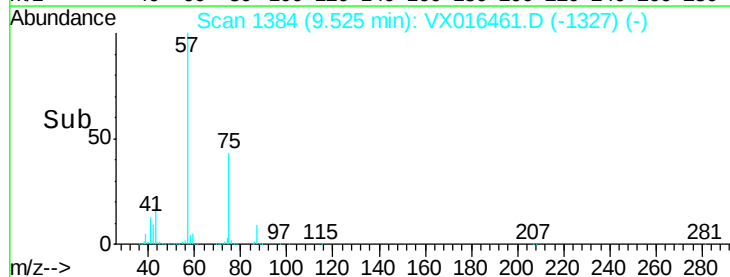
40000

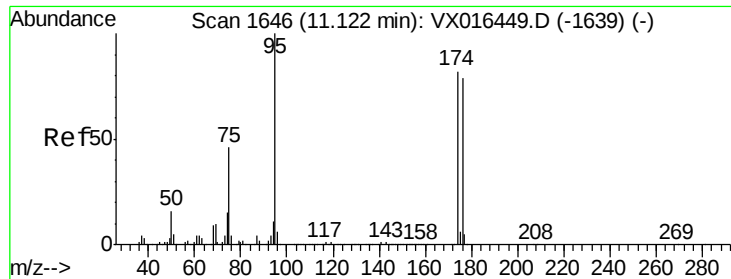
20000

0

9.50 9.55

Time-->

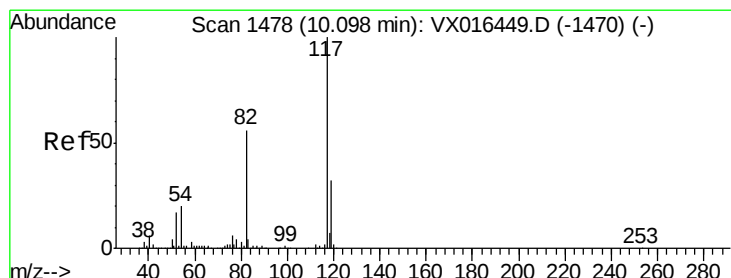
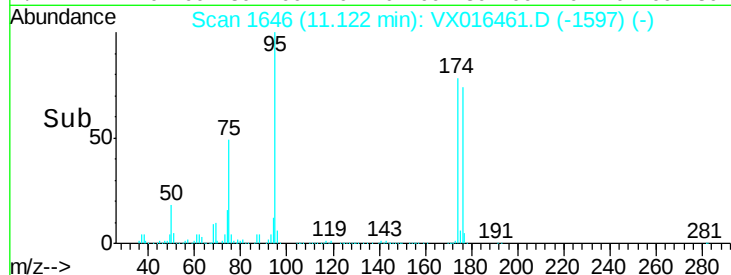
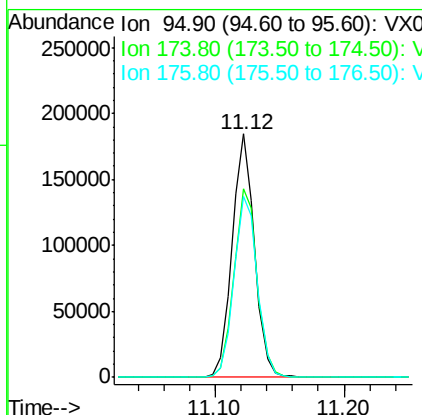
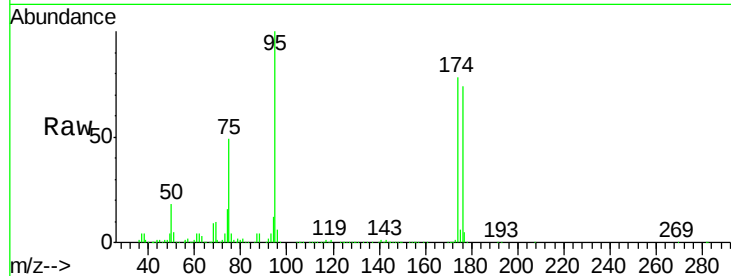




#62
4-Bromofluorobenzene
Concen: 53.417 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

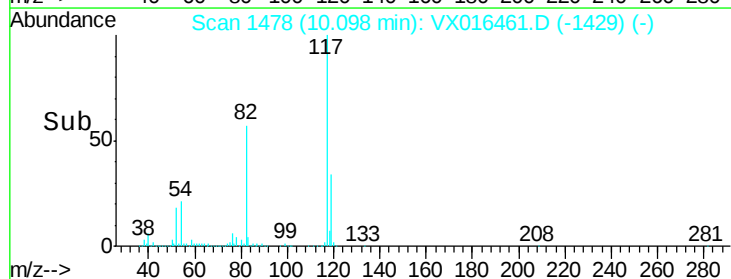
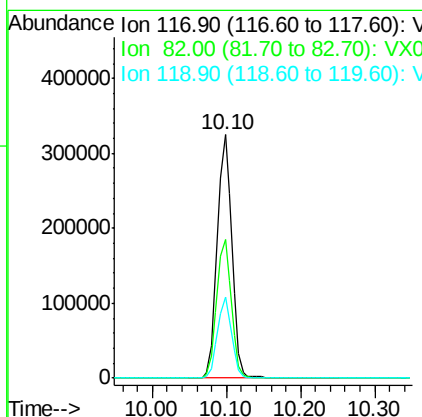
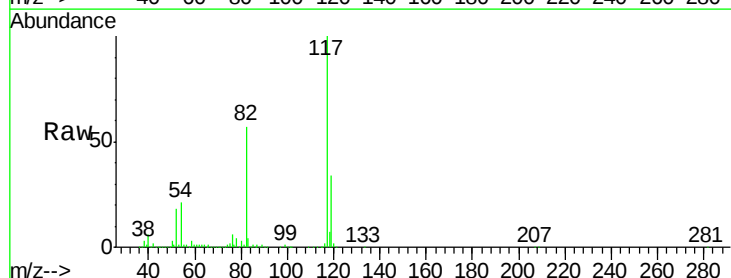
Instrument :
MSVOA_X
ClientSampleId :
PB129126TB

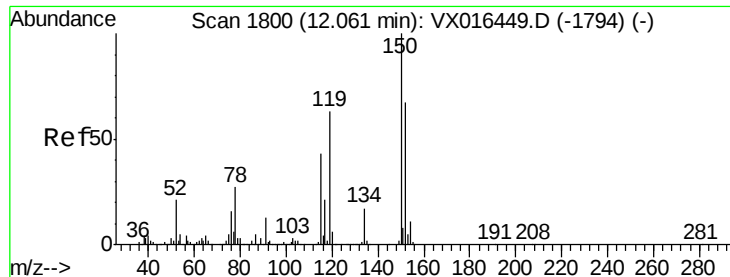
Tot Ion: 95 Resp: 223346
Ion Ratio Lower Upper
95 100
174 80.3 0.0 163.0
176 77.9 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016461.D
Acq: 27 May 2020 21:24

Tgt Ion: 117 Resp: 438119
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.6
119 33.5 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

PB129126TB

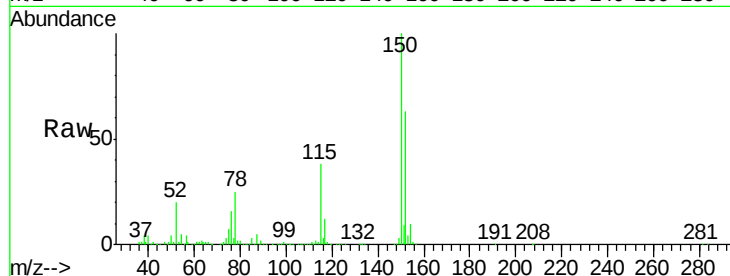
Tot Ion:152 Resp: 219693

Ion Ratio Lower Upper

152 100

115 58.7 39.9 119.6

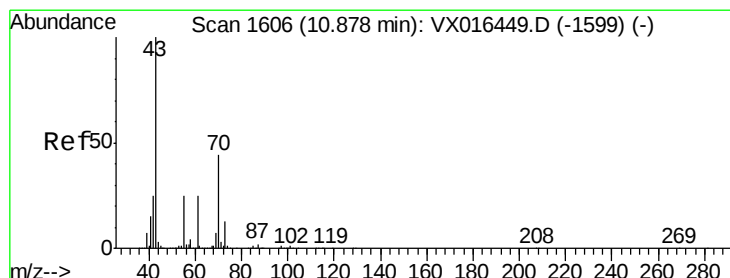
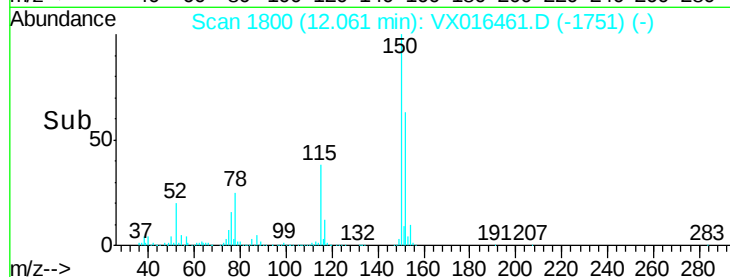
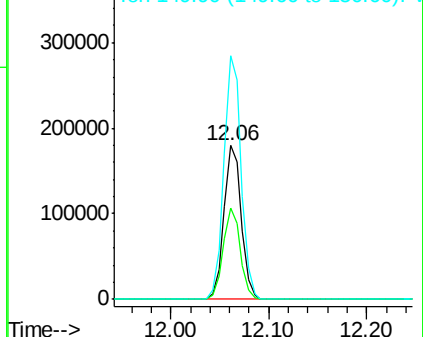
150 157.3 0.0 341.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.634 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Tgt Ion: 43 Resp: 4436

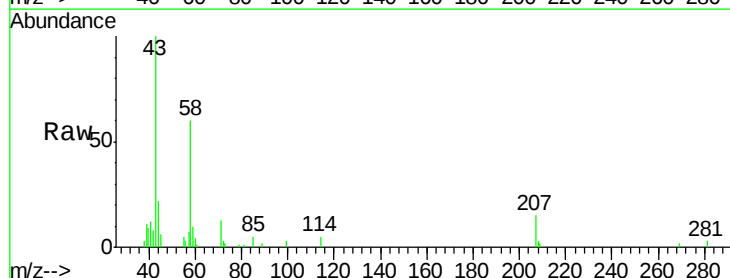
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 10.3 20.2 30.4#

61 0.0 20.3 30.5#

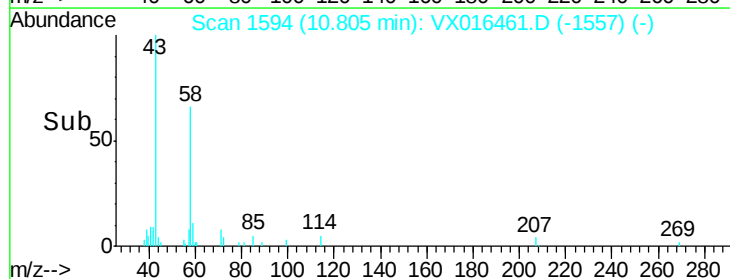
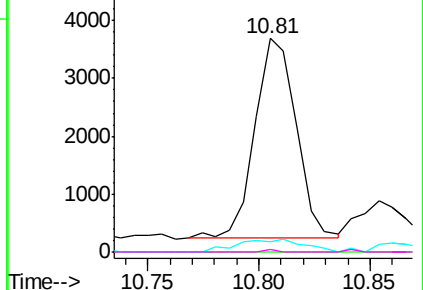


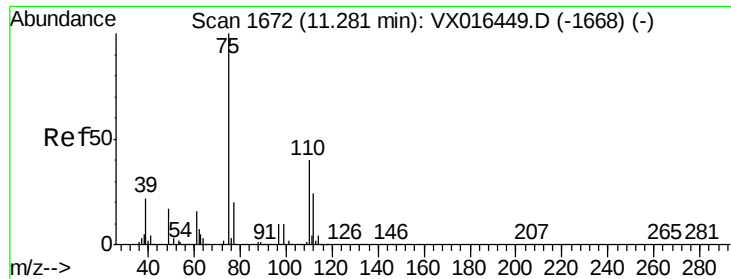
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.516 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016461.D

Acq: 27 May 2020 21:24

Instrument :

MSVOA_X

ClientSampleId :

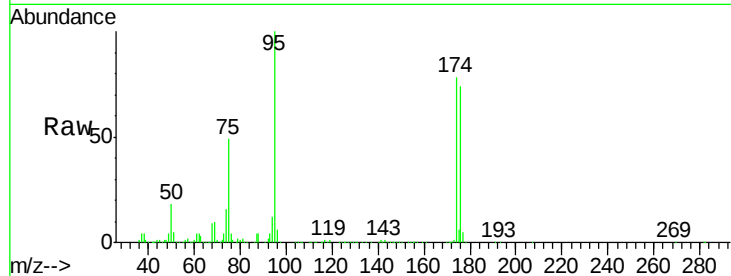
PB129126TB

Tot Ion: 75 Resp: 108728

Ion Ratio Lower Upper

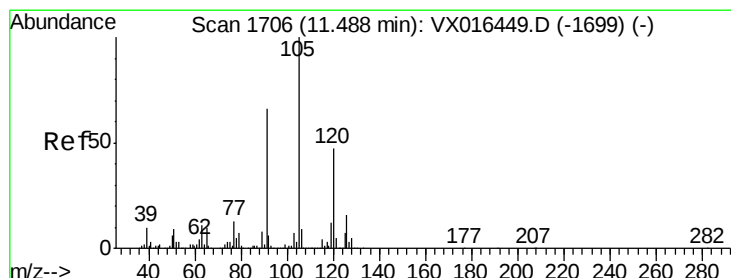
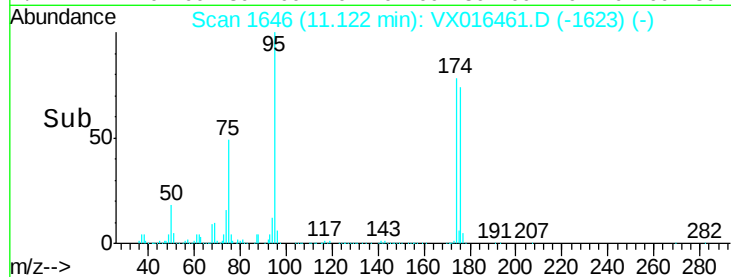
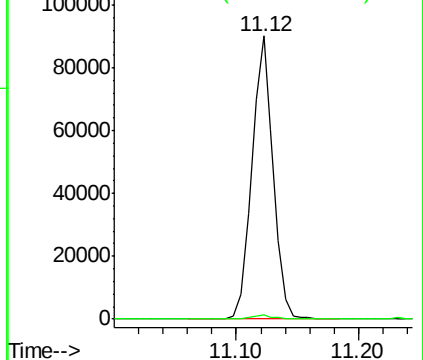
75 100

77 1.3 21.3 63.7#



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: 0.339 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016461.D

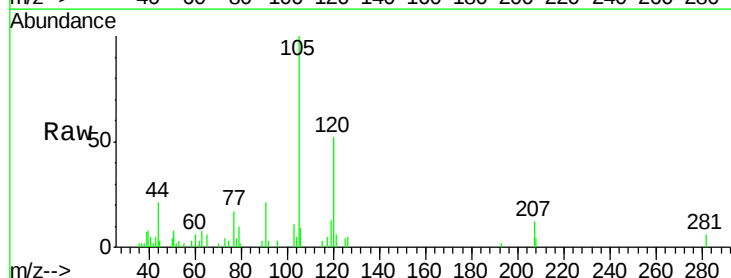
Acq: 27 May 2020 21:24

Tgt Ion:105 Resp: 4305

Ion Ratio Lower Upper

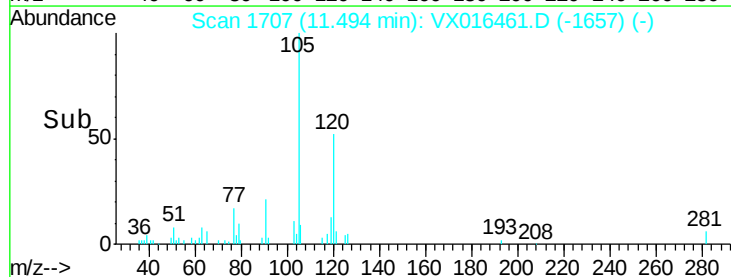
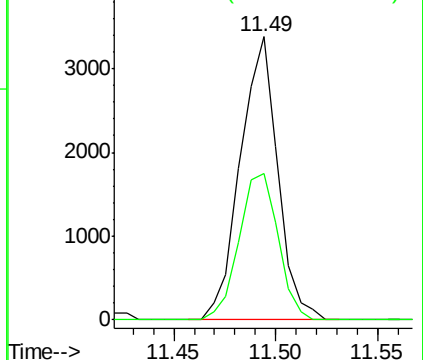
105 100

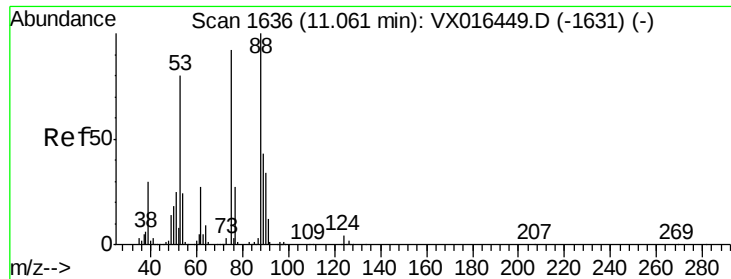
120 53.9 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.385 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016461.D
 Acq: 27 May 2020 21:24

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129126TB

Tot Ion: 75 Resp: 108728
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.3 106.9#
 89 0.0 36.6 55.0#

