

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063020\
 Data File : VX017072.D
 Acq On : 01 Jul 2020 02:38
 Operator : JC/SP
 Sample : PB129852ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#08

Quant Time: Jul 01 08:22:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	222962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	382318	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	421515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	211958	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	149419	54.36	ug/l	0.00
Spiked Amount			Recovery	=	108.72%	
35) Dibromofluoromethane	5.47	113	128947	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
50) Toluene-d8	8.70	98	488451	54.62	ug/l	0.00
Spiked Amount			Recovery	=	109.24%	
62) 4-Bromofluorobenzene	11.12	95	208403	59.61	ug/l	0.00
Spiked Amount			Recovery	=	119.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	445	0.732	ug/l	54
11) Tert butyl alcohol	3.00	59	1691	3.225	ug/l #	92
13) Acrolein	2.29	56	228	0.727	ug/l #	15
16) Acetone	2.42	43	11312	11.001	ug/l	96
18) Methyl Acetate	2.75	43	2856	1.064	ug/l	95
20) Methylene Chloride	2.84	84	12756	4.700	ug/l	97
25) 2-Butanone	4.65	43	4745	2.769	ug/l	94
31) Cyclohexane	5.62	56	4602	1.240	ug/l #	34
36) 1,1-Dichloropropene	5.64	75	16573	4.587	ug/l #	50
38) Carbon Tetrachloride	5.63	117	22284	5.599	ug/l #	16
43) Isopropyl Acetate	6.42	43	59906	9.833	ug/l	99
44) Trichloroethene	7.18	130	380	Below Cal		99
48) Methyl methacrylate	7.65	41	3882	1.341	ug/l #	15
49) 1,4-Dioxane	7.85	88	198	3.020	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	57976	15.965	ug/l #	53
52) Toluene	8.77	92	1489	0.225	ug/l	92
54) cis-1,3-Dichloropropene	8.59	75	26234	5.781	ug/l #	62
56) Ethyl methacrylate	9.29	69	1369	0.355	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	4929	1.076	ug/l #	43
59) 2-Hexanone	9.42	43	57477	21.671	ug/l #	23
76) 1,2,3-Trichloropropane	11.12	75	102670	24.633	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	3202	0.278	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	102670	63.790	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	342	Below Cal		82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

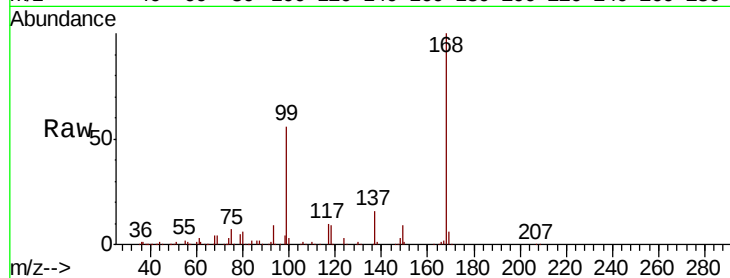
PB129852ZHE#08

Tot Ion:168 Resp: 222962

Ion Ratio Lower Upper

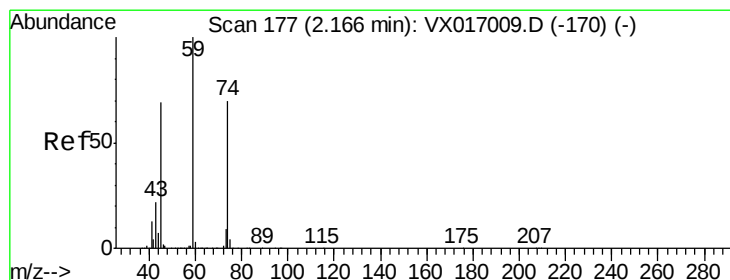
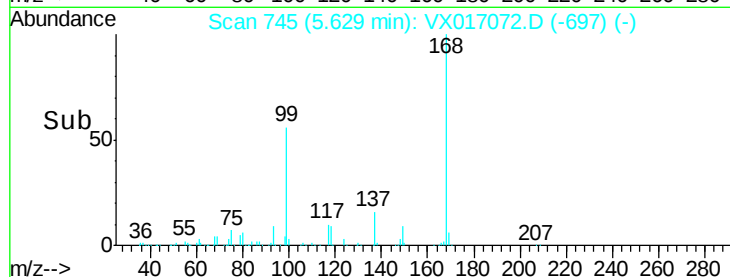
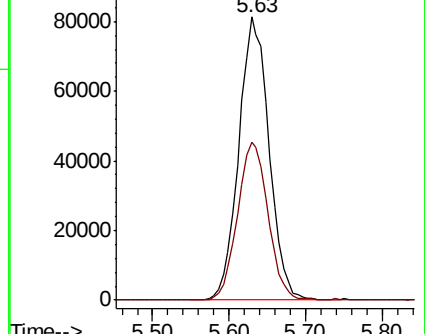
168 100

99 55.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.732 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017072.D

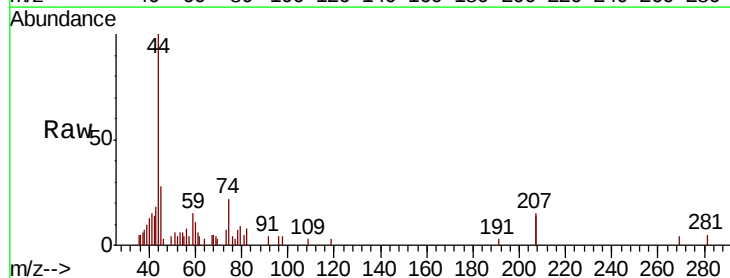
Acq: 01 Jul 2020 02:38

Tgt Ion: 74 Resp: 445

Ion Ratio Lower Upper

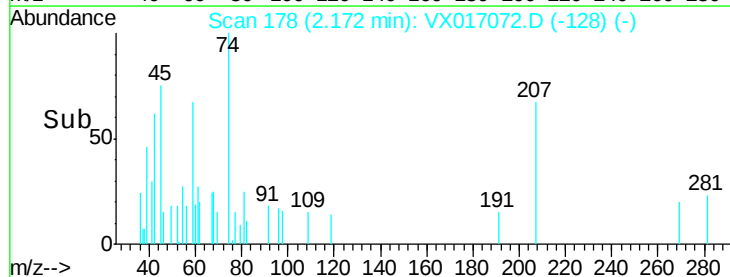
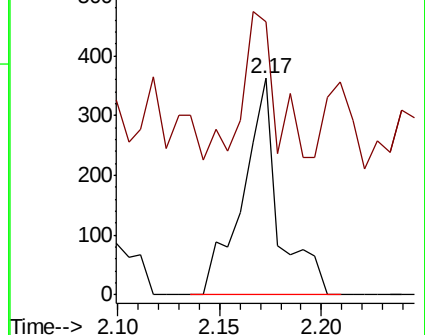
74 100

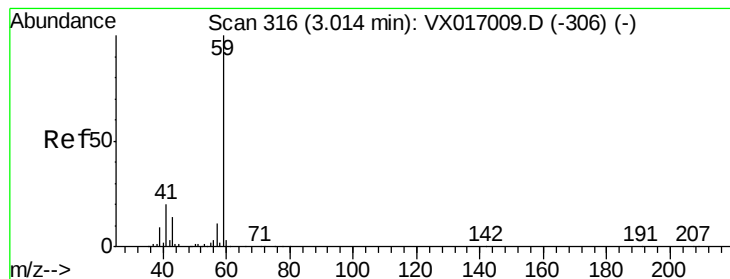
45 53.7 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



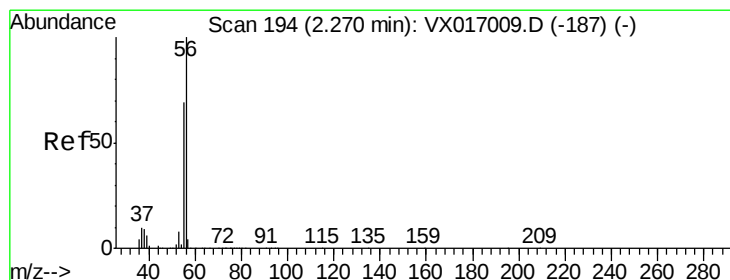
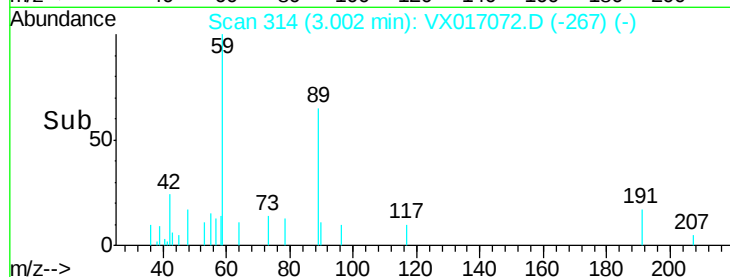
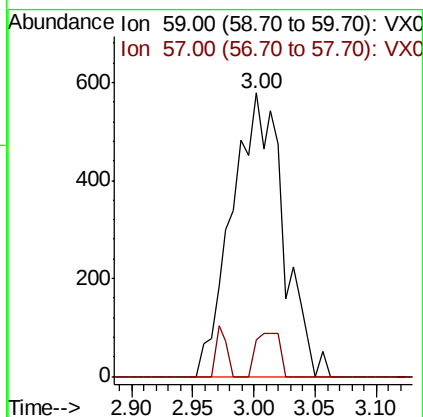
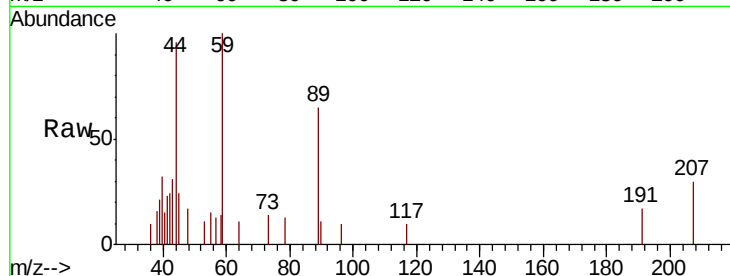


#11

Tert butyl alcohol
Concen: 3.225 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017072.D
Acq: 01 Jul 2020 02:38

Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#08

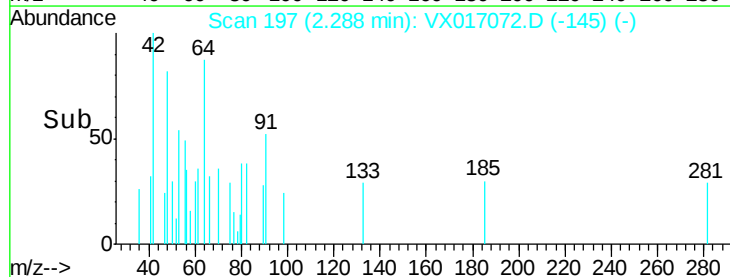
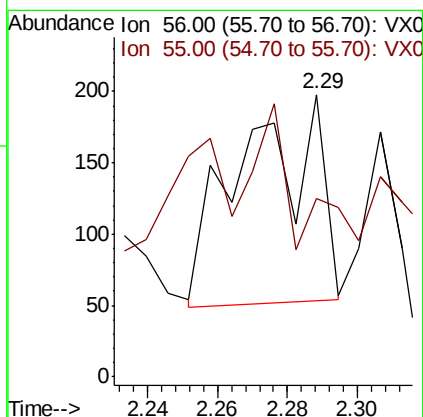
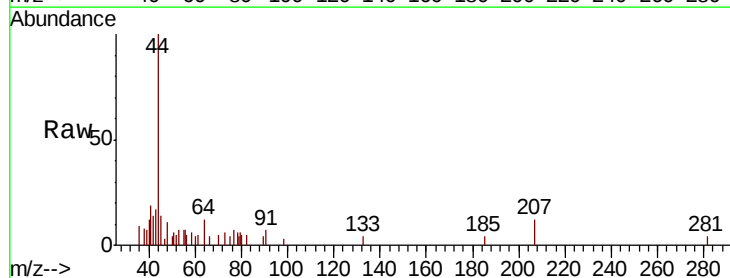
Tot Ion: 59 Resp: 1691
Ion Ratio Lower Upper
59 100
57 7.3 8.2 12.2#

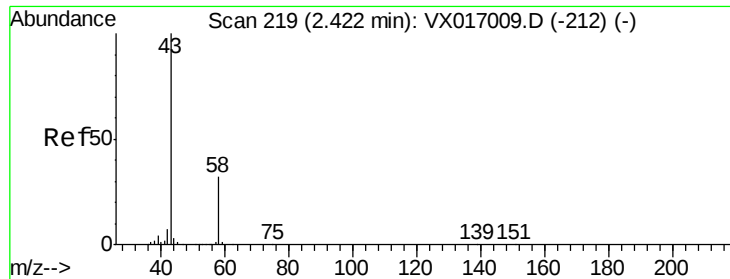


#13

Acrolein
Concen: 0.727 ug/l
RT: 2.29 min Scan# 197
Delta R.T. 0.02 min
Lab File: VX017072.D
Acq: 01 Jul 2020 02:38

Tgt Ion: 56 Resp: 228
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#





#16

Acetone

Concen: 11.001 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

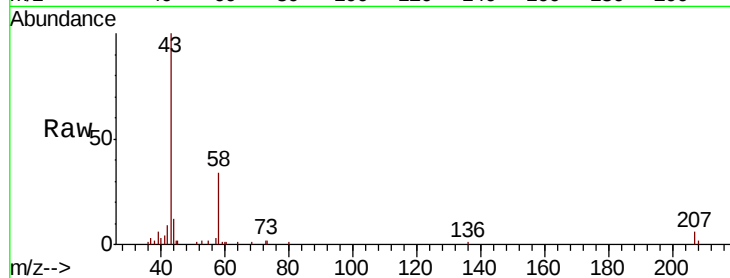
PB129852ZHE#08

Tot Ion: 43 Resp: 11312

Ion Ratio Lower Upper

43 100

58 34.3 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8000

6000

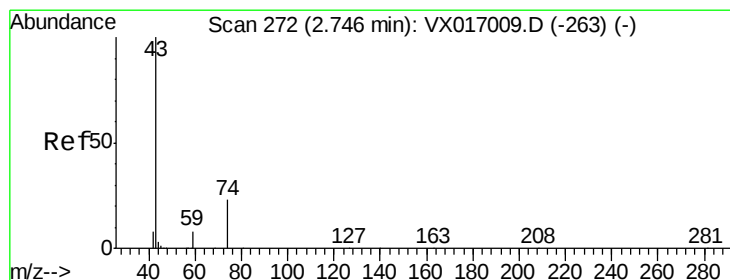
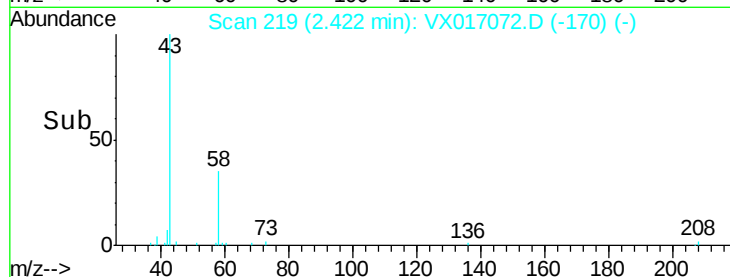
4000

2000

0

Time--> 2.35 2.40 2.45 2.50

2.42



#18

Methyl Acetate

Concen: 1.064 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017072.D

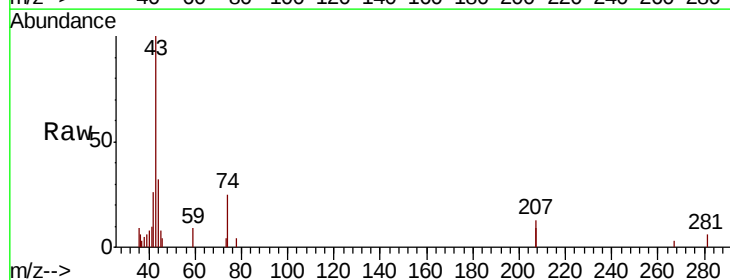
Acq: 01 Jul 2020 02:38

Tgt Ion: 43 Resp: 2856

Ion Ratio Lower Upper

43 100

74 26.7 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2000

1500

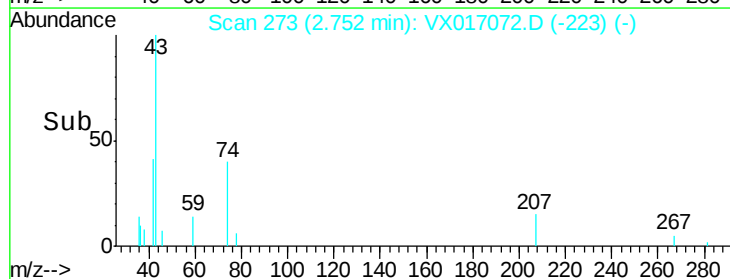
1000

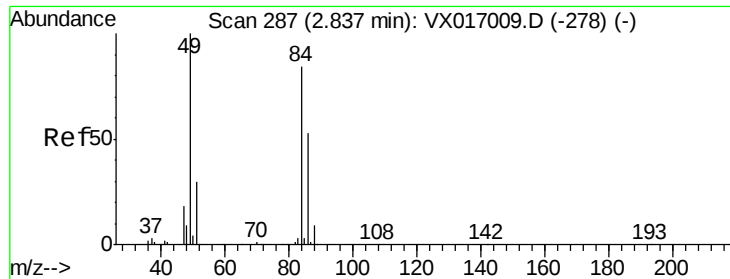
500

0

Time--> 2.70 2.75 2.80

2.75

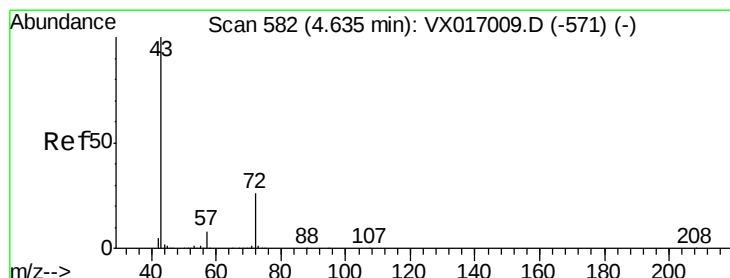
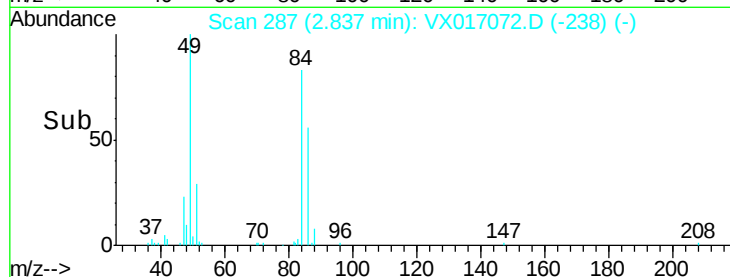
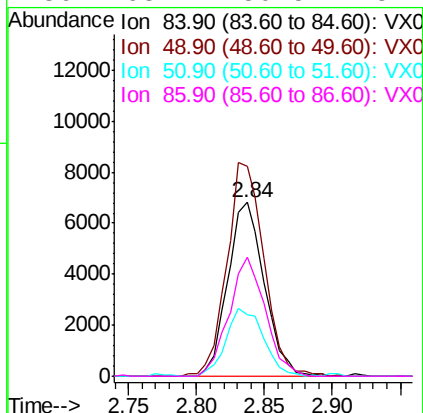
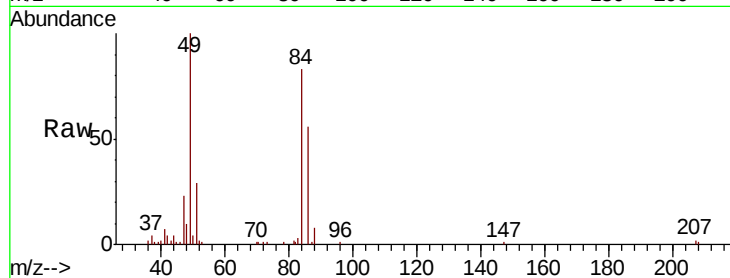




#20
Methvlene Chloride
Concen: 4.700 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017072.D
Acq: 01 Jul 2020 02:38

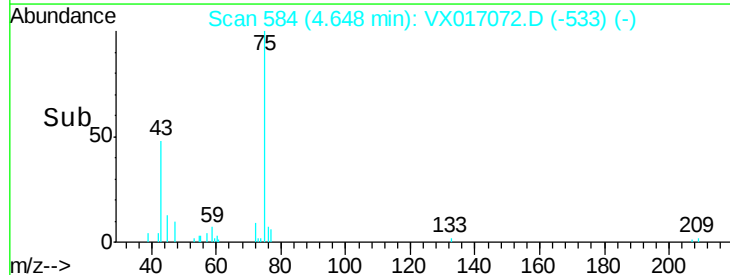
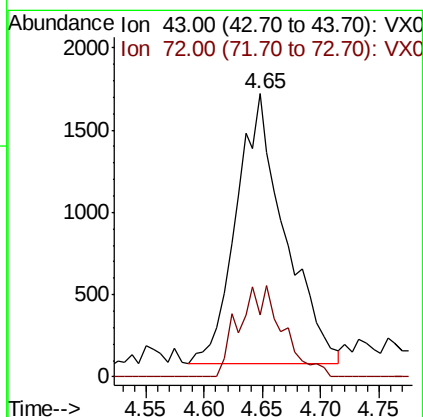
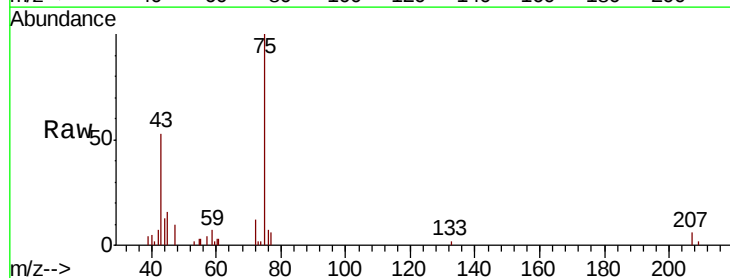
Instrument :
MSVOA_X
ClientSampleId :
PB129852ZHE#08

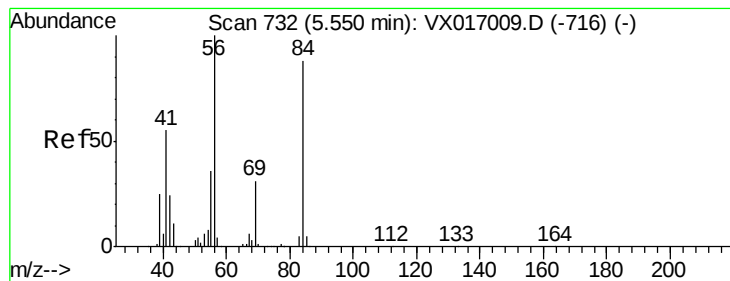
Tot Ion:	84	Resp:	12756
Ion	Ratio	Lower	Upper
84	100		
49	119.7	94.7	142.1
51	35.3	28.6	42.8
86	68.1	50.5	75.7



#25
2-Butanone
Concen: 2.769 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017072.D
Acq: 01 Jul 2020 02:38

Tgt Ion:	43	Resp:	4745
Ion	Ratio	Lower	Upper
43	100		
72	23.1	20.8	31.2





#31

Cvclohexane

Concen: 1.240 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#08

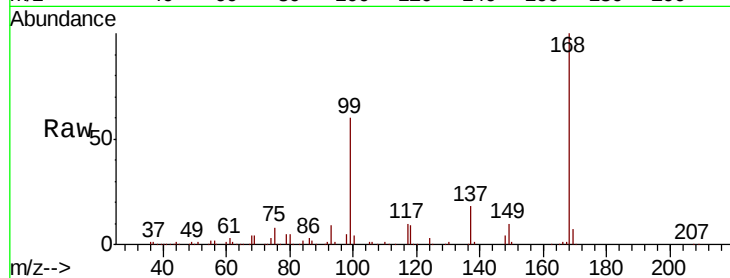
Tot Ion: 56 Resp: 4602

Ion Ratio Lower Upper

56 100

69 145.2 25.0 37.4#

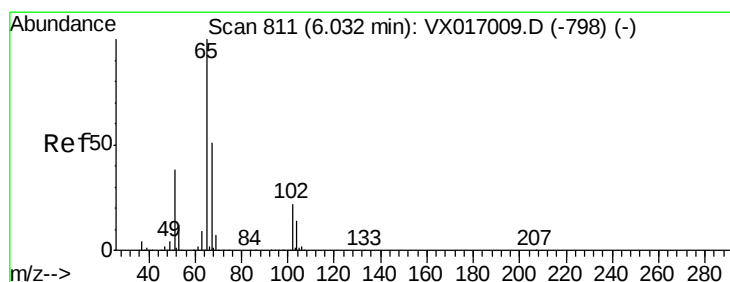
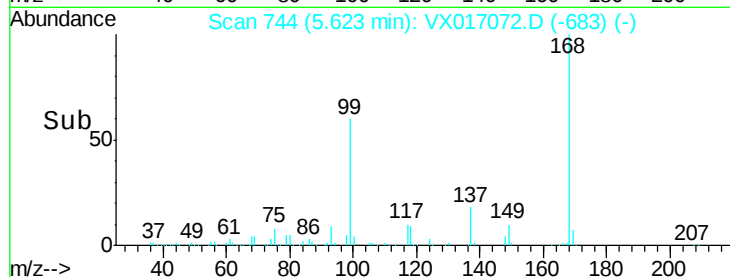
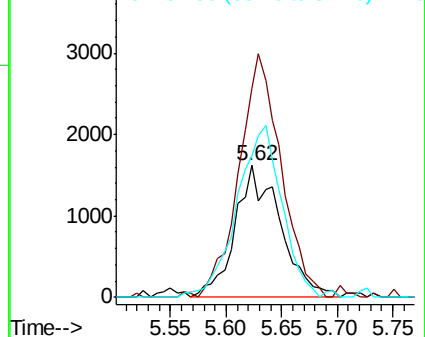
84 100.2 69.1 103.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.360 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX017072.D

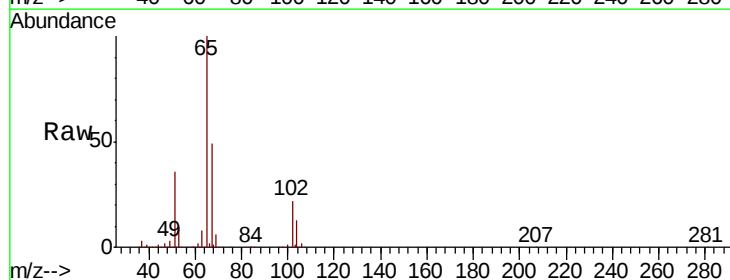
Acq: 01 Jul 2020 02:38

Tgt Ion: 65 Resp: 149419

Ion Ratio Lower Upper

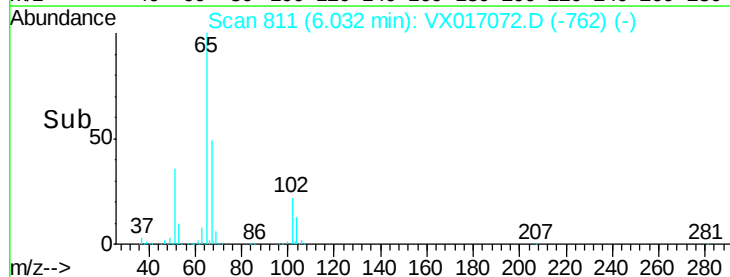
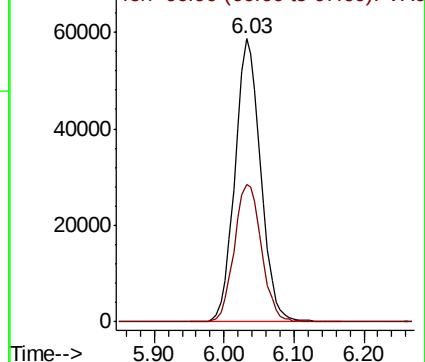
65 100

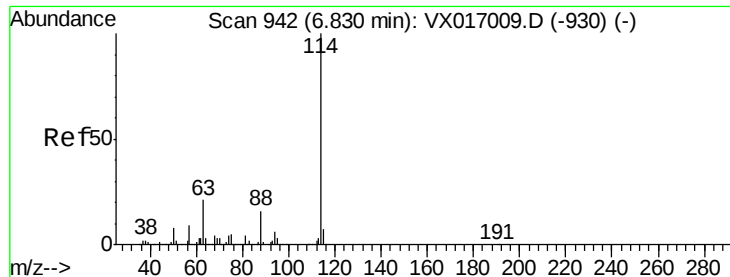
67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#08

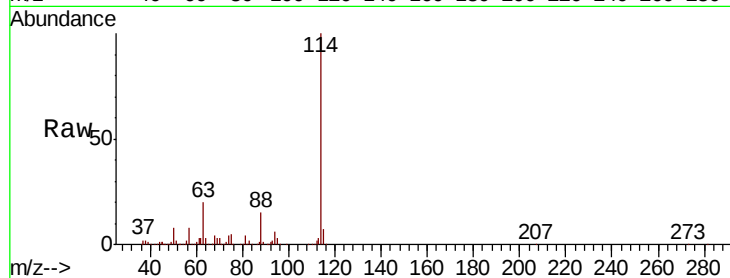
Tot Ion:114 Resp: 382318

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

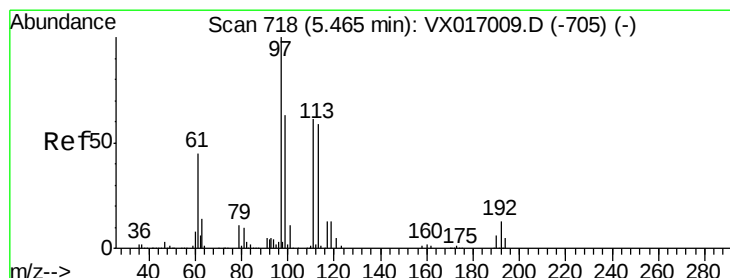
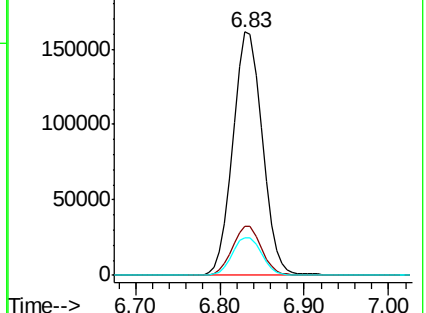
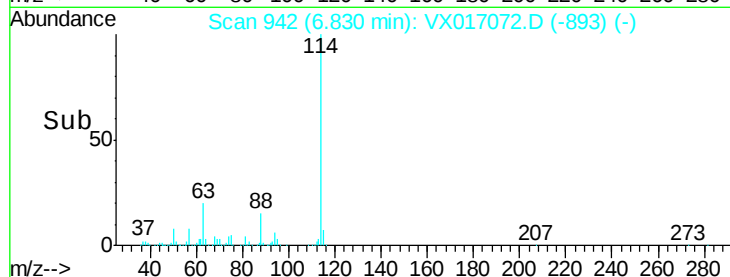
88 15.5 0.0 32.4



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: 53.319 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

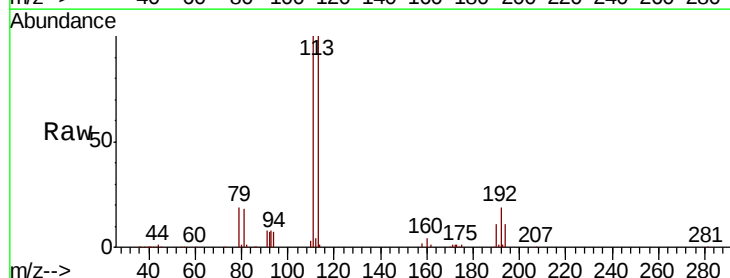
Tgt Ion:113 Resp: 128947

Ion Ratio Lower Upper

113 100

111 102.6 81.9 122.9

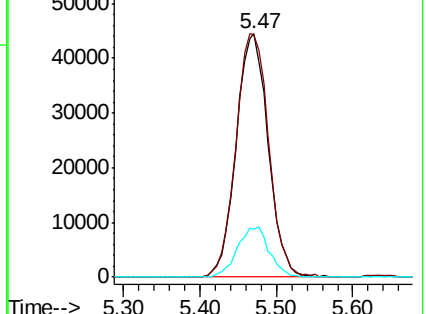
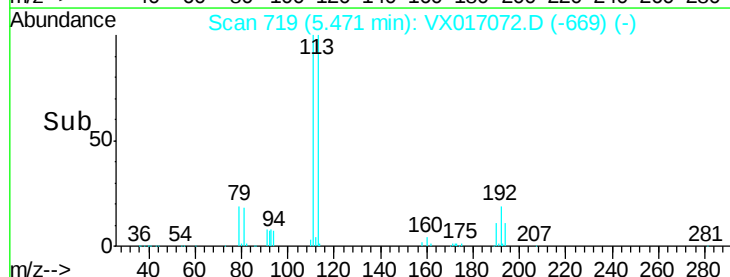
192 20.7 16.7 25.1

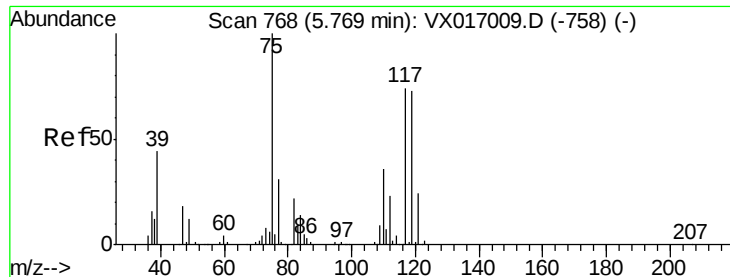


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

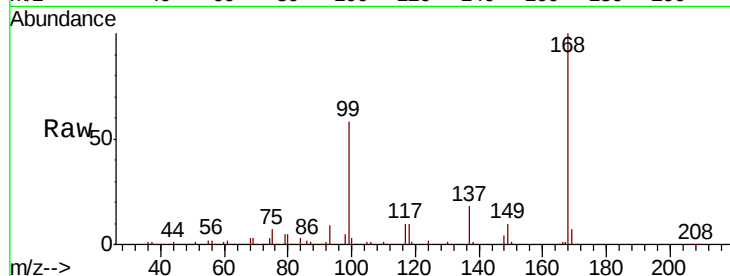




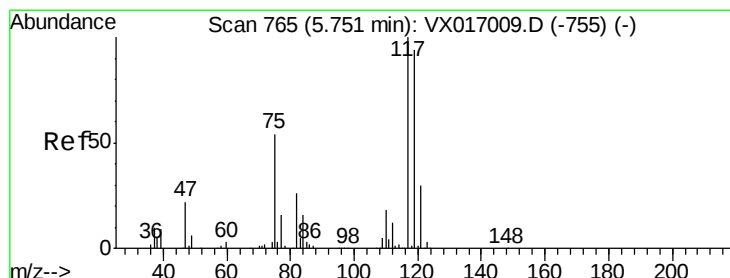
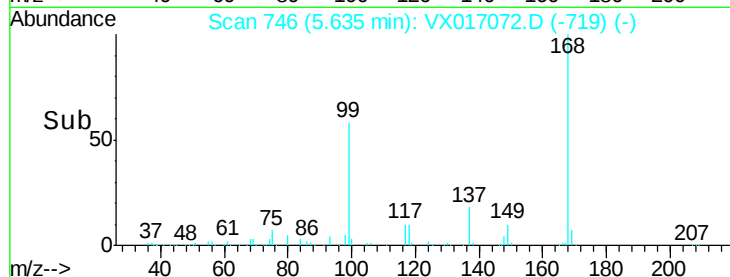
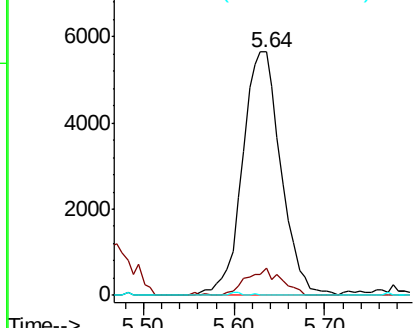
#36
 1,1-Dichloropropene
 Concen: 4.587 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#08

Tot Ion: 75 Resp: 16573
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.1#
 77 0.1 24.6 37.0#

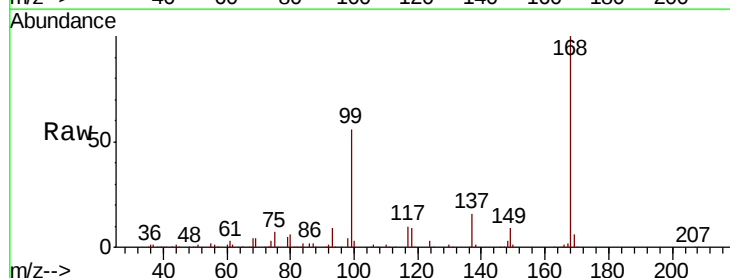


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

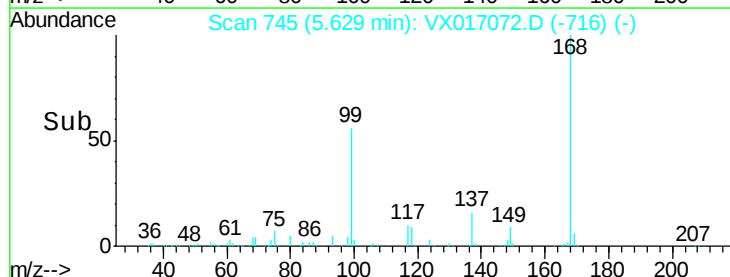
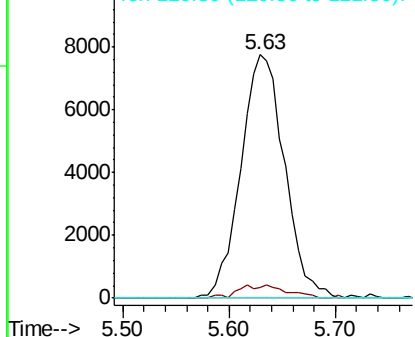


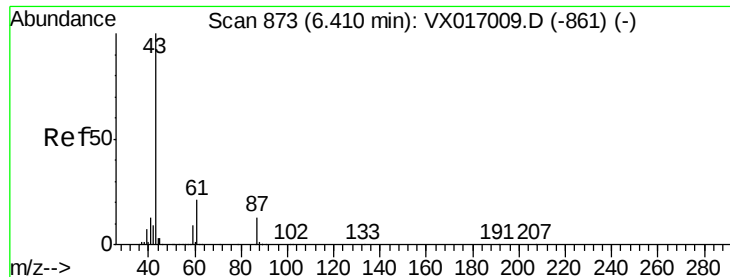
#38
 Carbon Tetrachloride
 Concen: 5.599 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Tgt Ion: 117 Resp: 22284
 Ion Ratio Lower Upper
 117 100
 119 4.4 75.4 113.0#
 121 0.0 23.8 35.6#



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



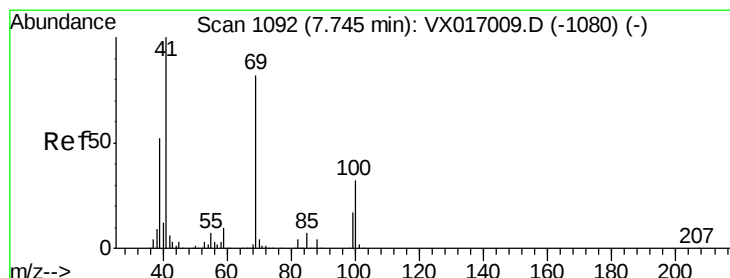
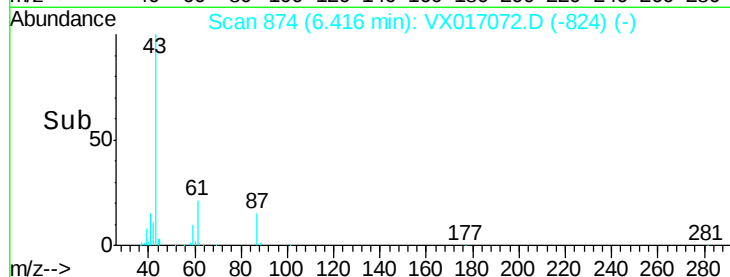
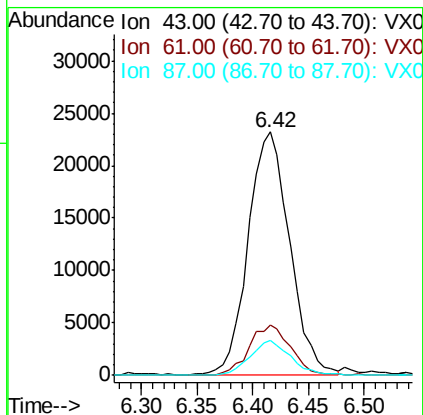
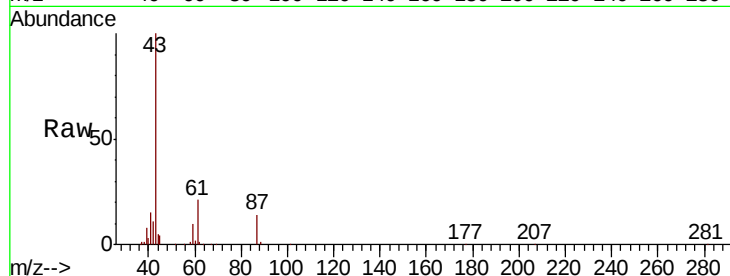


#43

Isopropyl Acetate
 Concen: 9.833 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#08

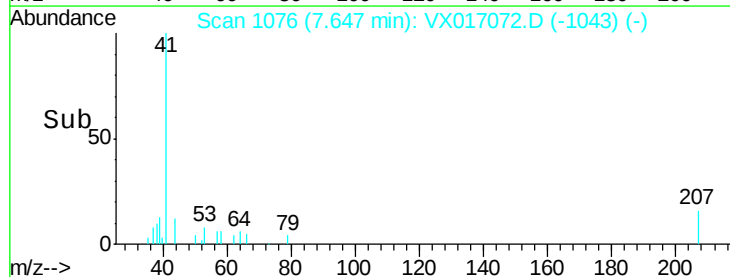
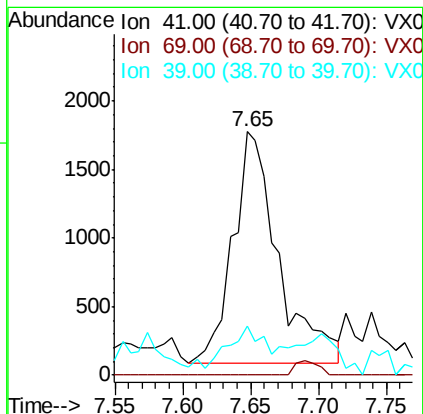
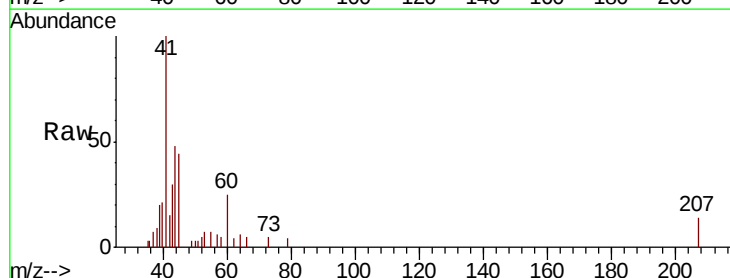
Tot Ion	43	Resp	59906
Ion Ratio	Lower	Upper	
43	100		
61	20.8	16.2	24.2
87	14.0	10.7	16.1

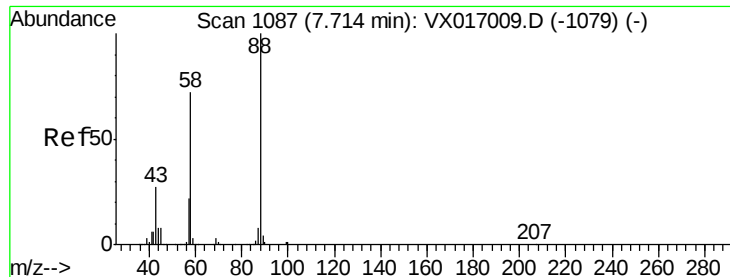


#48

Methyl methacrylate
 Concen: 1.341 ug/l
 RT: 7.65 min Scan# 1076
 Delta R.T. -0.10 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Tgt Ion	41	Resp	3882
Ion Ratio	Lower	Upper	
41	100		
69	0.0	65.8	98.8#
39	0.0	42.5	63.7#





#49

1,4-Dioxane

Concen: 3.020 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.14 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#08

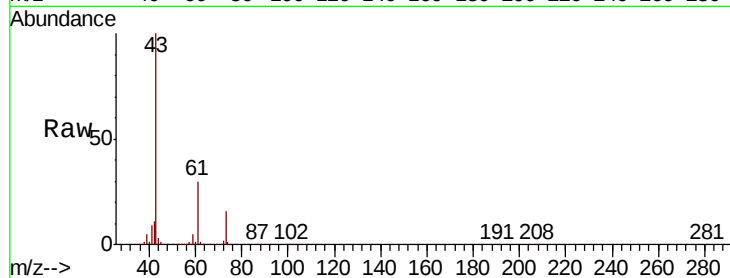
Tot Ion: 88 Resp: 198

Ion Ratio Lower Upper

88 100

43 565622.7 25.8 38.8#

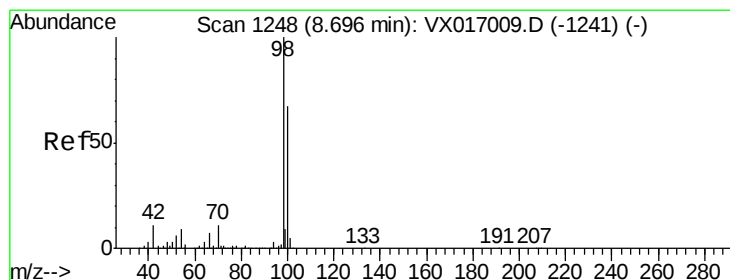
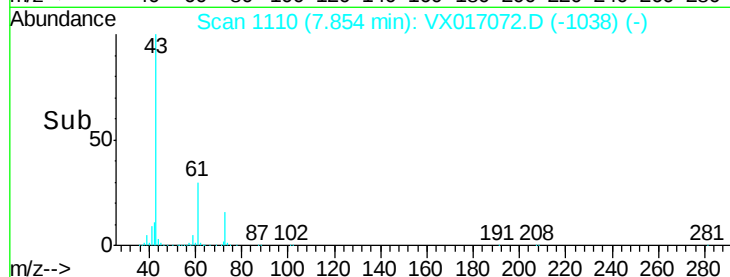
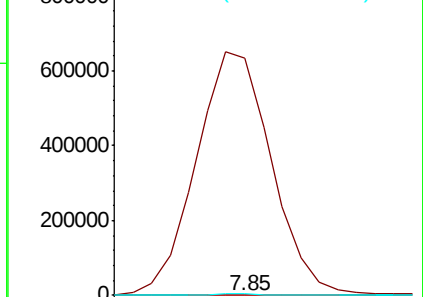
58 2757.6 54.8 82.2#



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: 54.619 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017072.D

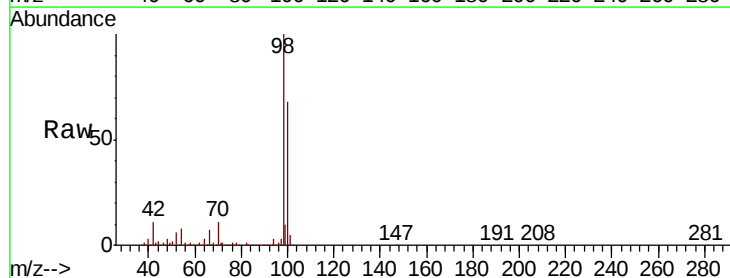
Acq: 01 Jul 2020 02:38

Tgt Ion: 98 Resp: 488451

Ion Ratio Lower Upper

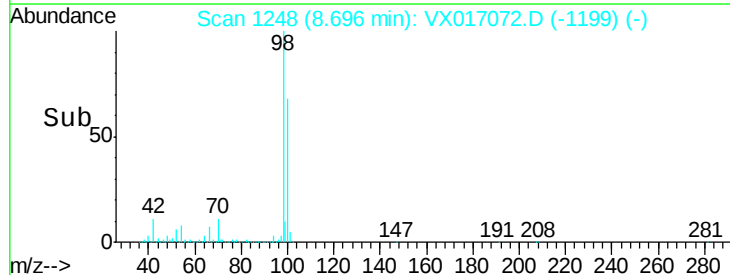
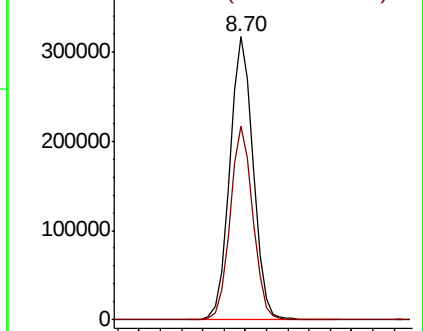
98 100

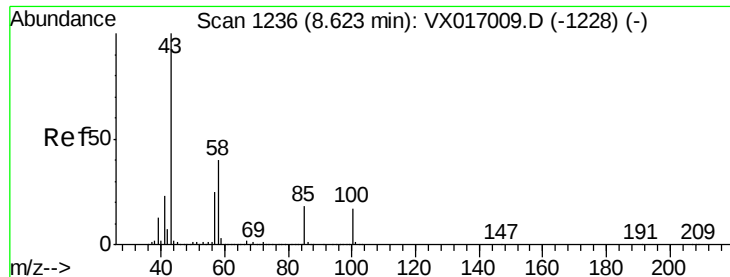
100 66.3 53.8 80.6



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: 15.965 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

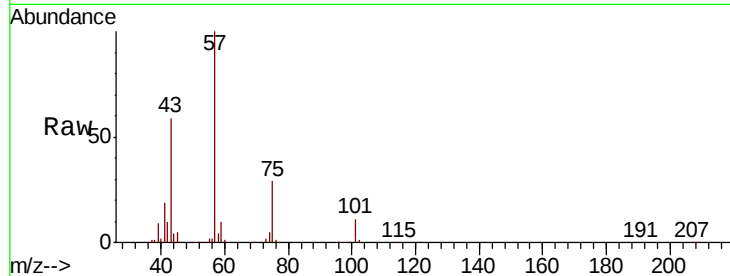
PB129852ZHE#08

Tot Ion: 43 Resp: 57976

Ion Ratio Lower Upper

43 100

58 10.7 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

40000

30000

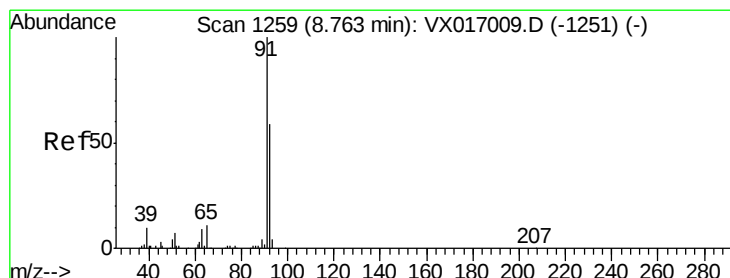
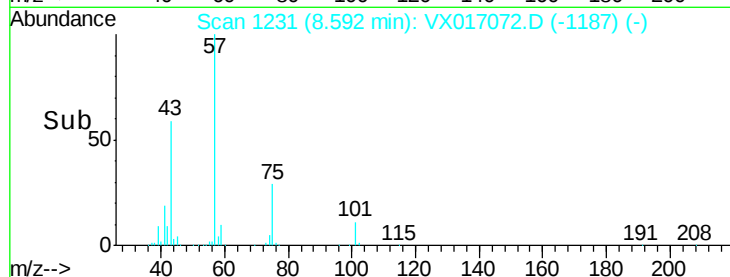
20000

10000

0

8.55 8.60 8.65

Time-->



#52

Toluene

Concen: 0.225 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017072.D

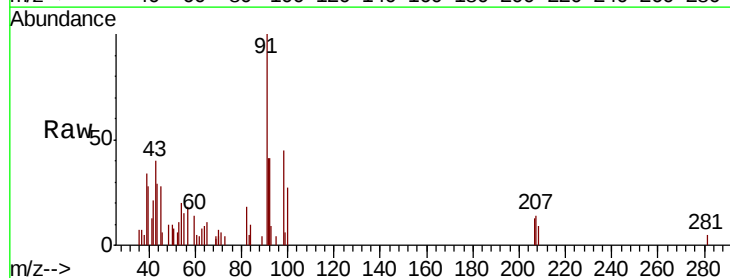
Acq: 01 Jul 2020 02:38

Tgt Ion: 92 Resp: 1489

Ion Ratio Lower Upper

92 100

91 182.5 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

8.77

1500

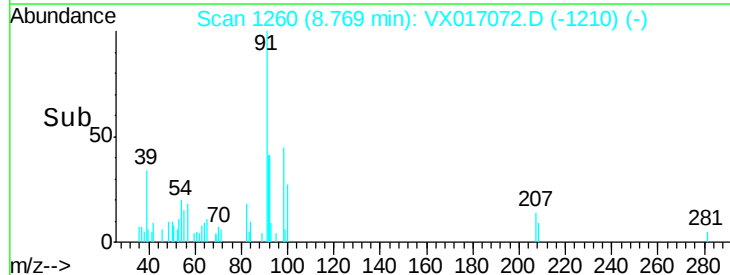
1000

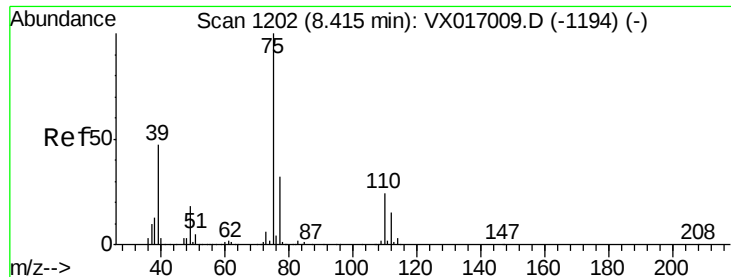
500

0

8.70 8.75 8.80

Time-->



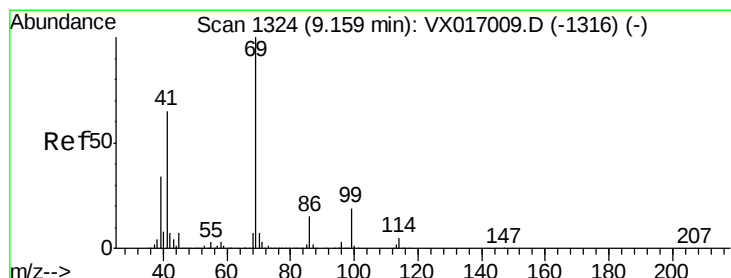
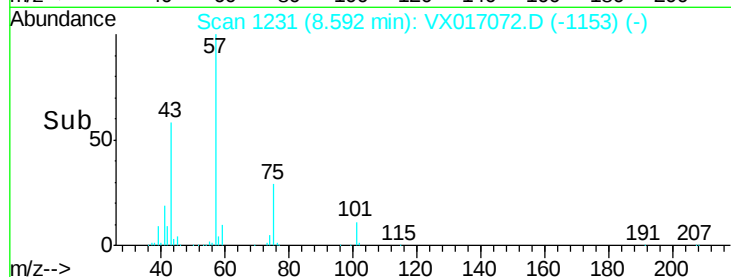
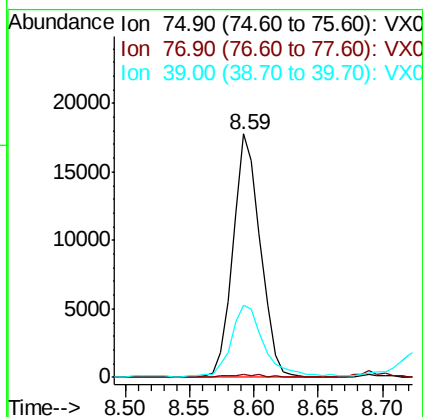
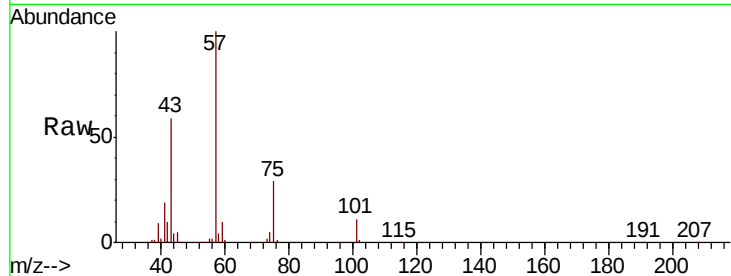


#54

cis-1,3-Dichloropropene
 Concen: 5.781 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129852ZHE#08

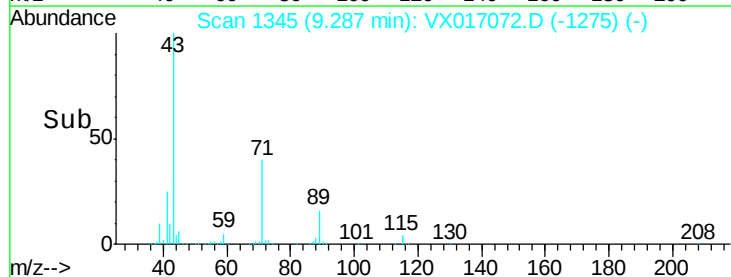
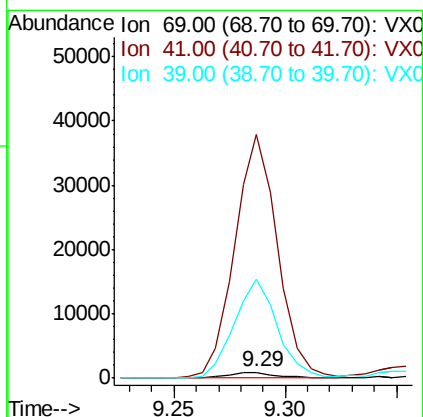
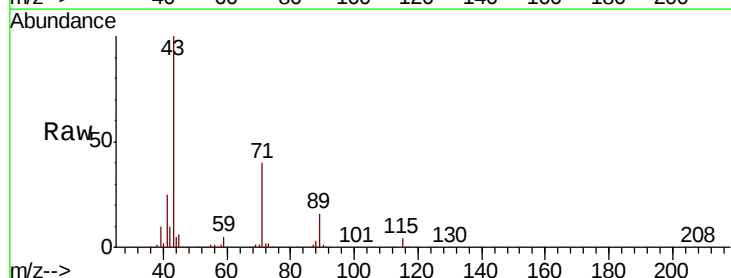
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.0	25.2	37.8#
39	29.1	37.4	56.2#

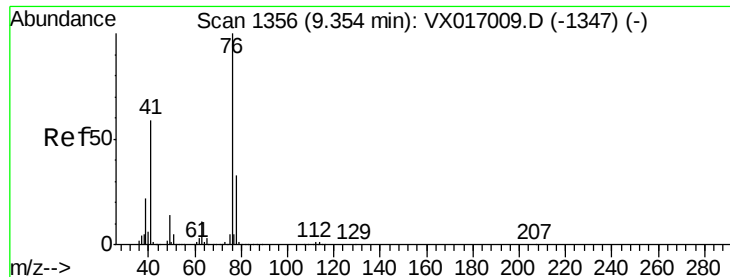


#56

Ethyl methacrylate
 Concen: 0.355 ug/l
 RT: 9.29 min Scan# 1345
 Delta R.T. 0.13 min
 Lab File: VX017072.D
 Acq: 01 Jul 2020 02:38

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3693.8	53.6	80.4#
39	1508.8	28.2	42.2#





#57

1,3-Dichloropropane

Concen: 1.076 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

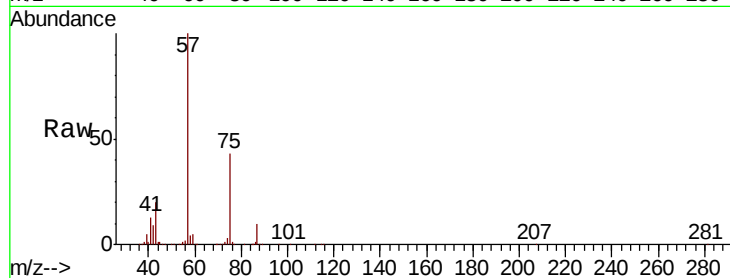
PB129852ZHE#08

Tot Ion: 76 Resp: 4929

Ion Ratio Lower Upper

76 100

78 0.5 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.52

4000

3000

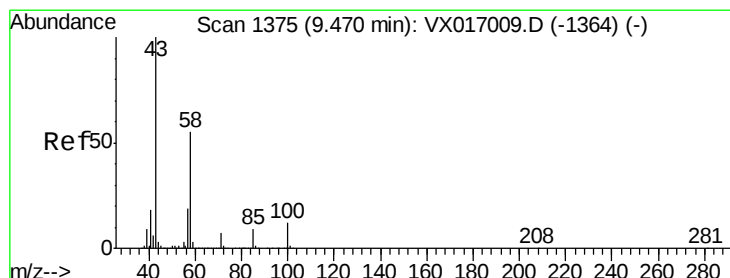
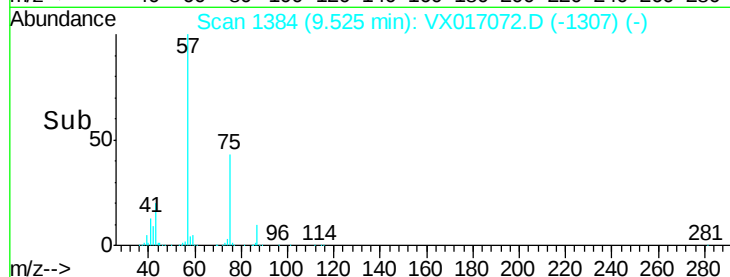
2000

1000

0

9.50 9.55

Time-->



#59

2-Hexanone

Concen: 21.671 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX017072.D

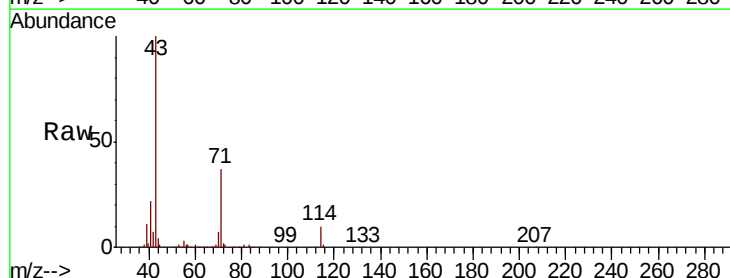
Acq: 01 Jul 2020 02:38

Tgt Ion: 43 Resp: 57477

Ion Ratio Lower Upper

43 100

58 0.0 27.9 83.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

9.42

40000

30000

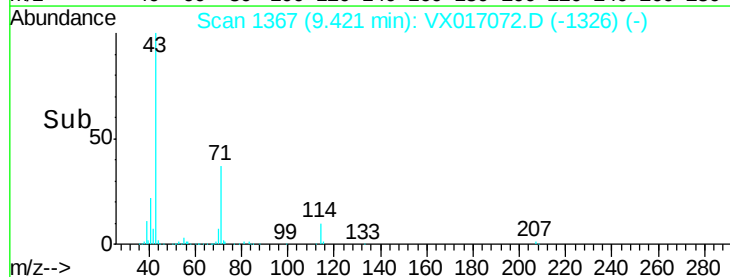
20000

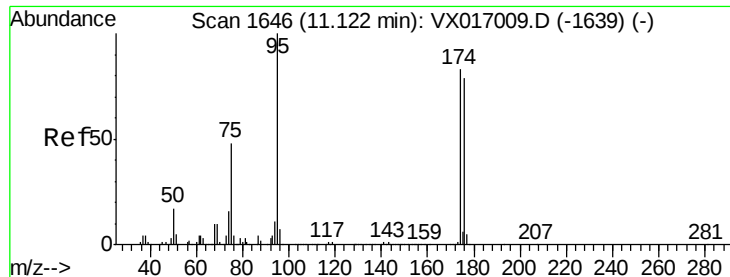
10000

0

9.40 9.45

Time-->





#62

4-Bromofluorobenzene

Concen: 59.614 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#08

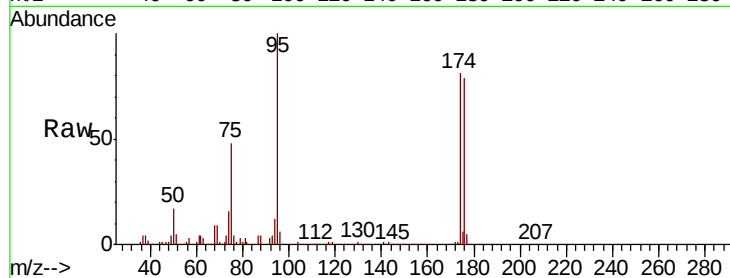
Tot Ion: 95 Resp: 208403

Ion Ratio Lower Upper

95 100

174 82.7 0.0 164.0

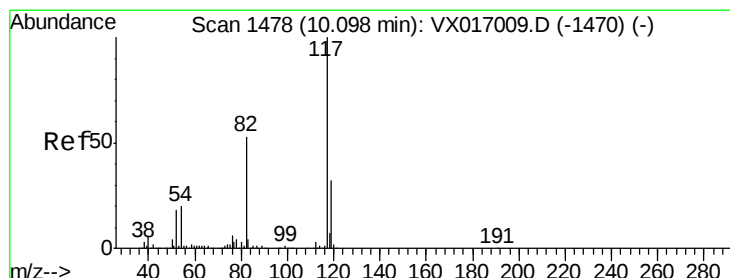
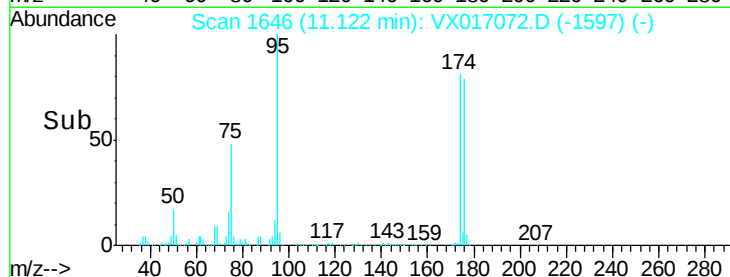
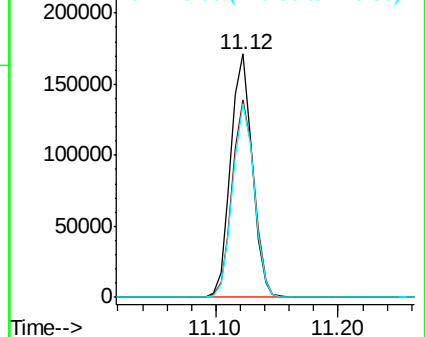
176 79.7 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

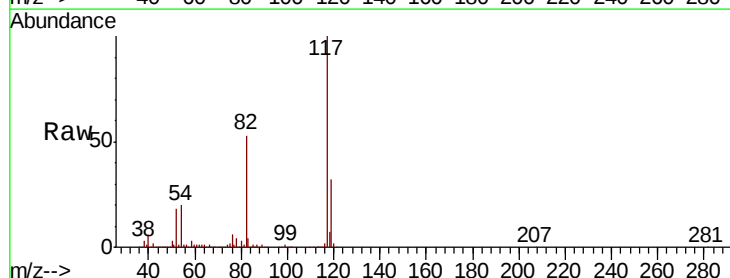
Tgt Ion: 117 Resp: 421515

Ion Ratio Lower Upper

117 100

82 52.5 42.6 63.8

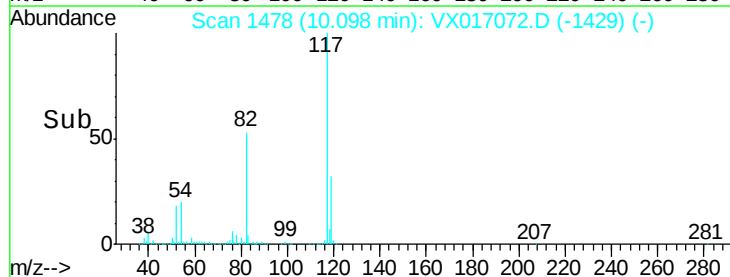
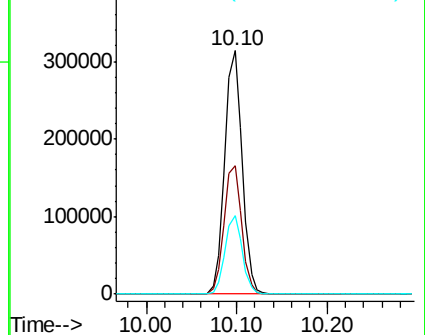
119 32.1 25.4 38.2

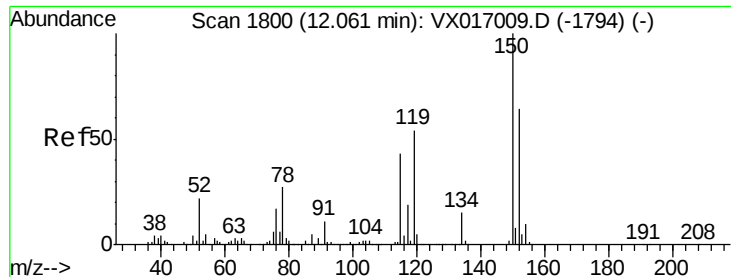


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

PB129852ZHE#08

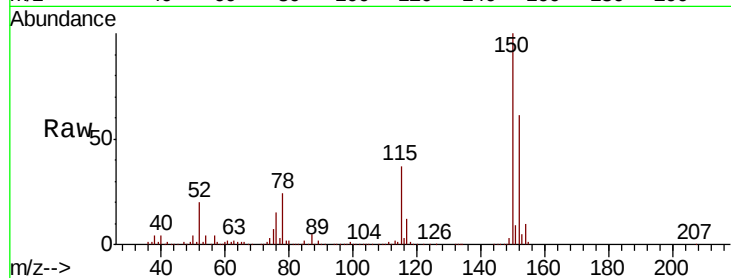
Tot Ion:152 Resp: 211958

Ion Ratio Lower Upper

152 100

115 58.0 40.9 122.7

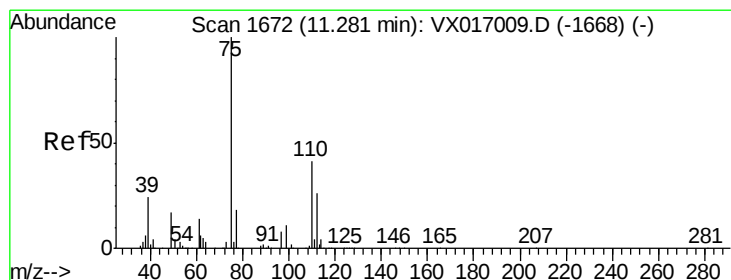
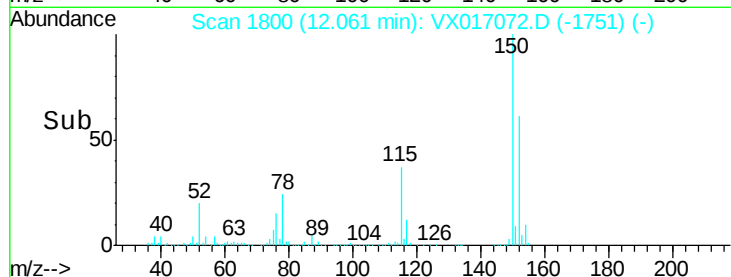
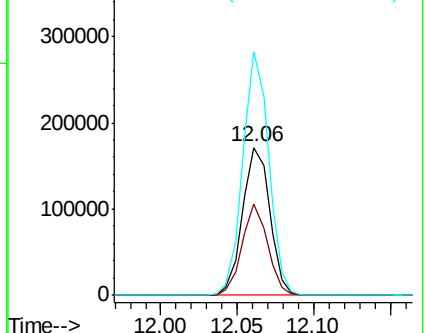
150 157.5 0.0 351.6



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



#76

1,2,3-Trichloropropane

Concen: 24.633 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017072.D

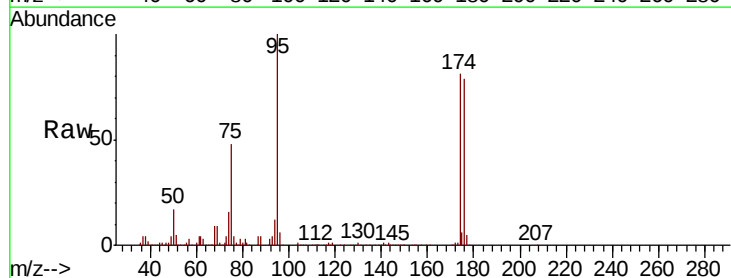
Acq: 01 Jul 2020 02:38

Tgt Ion: 75 Resp: 102670

Ion Ratio Lower Upper

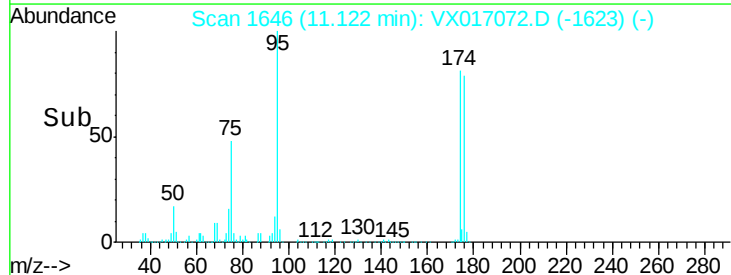
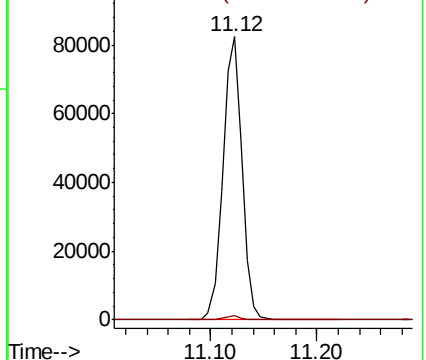
75 100

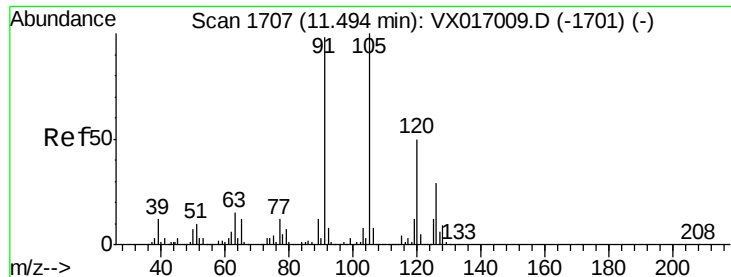
77 1.2 20.2 60.6#



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: 0.278 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

Instrument :

MSVOA_X

ClientSampleId :

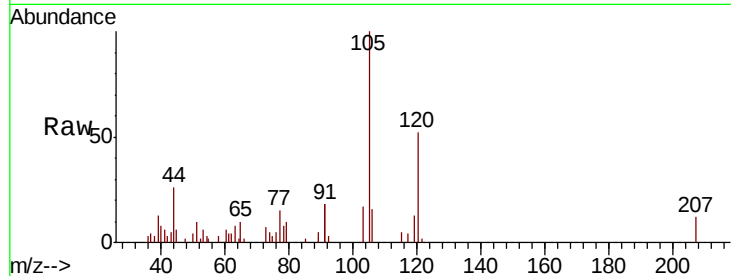
PB129852ZHE#08

Tot Ion:105 Resp: 3202

Ion Ratio Lower Upper

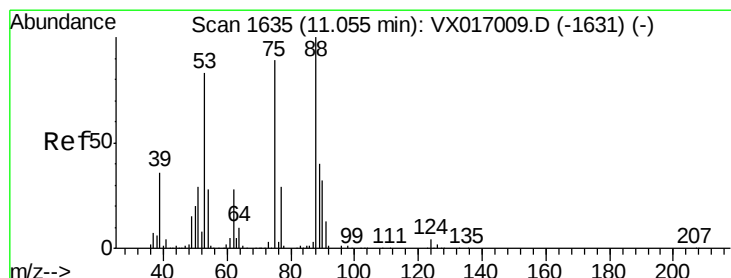
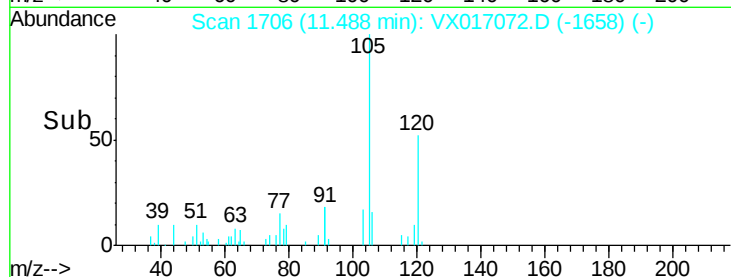
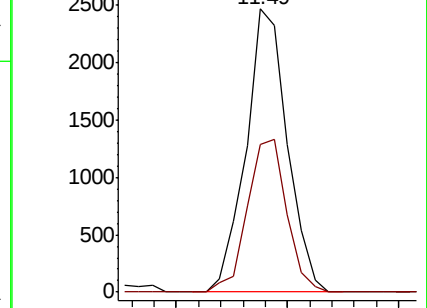
105 100

120 51.3 24.9 74.6



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: 63.790 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017072.D

Acq: 01 Jul 2020 02:38

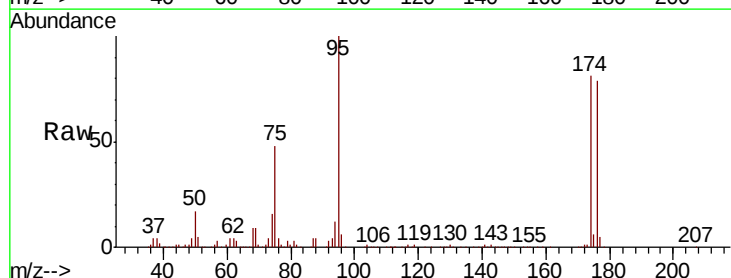
Tgt Ion: 75 Resp: 102670

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#



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

