

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082820\
 Data File : VX018115.D
 Acq On : 28 Aug 2020 13:12
 Operator : JC/SP
 Sample : L3507-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-03-082720

Quant Time: Aug 29 03:04:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	626411	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1058113	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1017964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	467638	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	443443	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	5.47	113	353597	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
50) Toluene-d8	8.70	98	1317997	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.12	95	498471	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

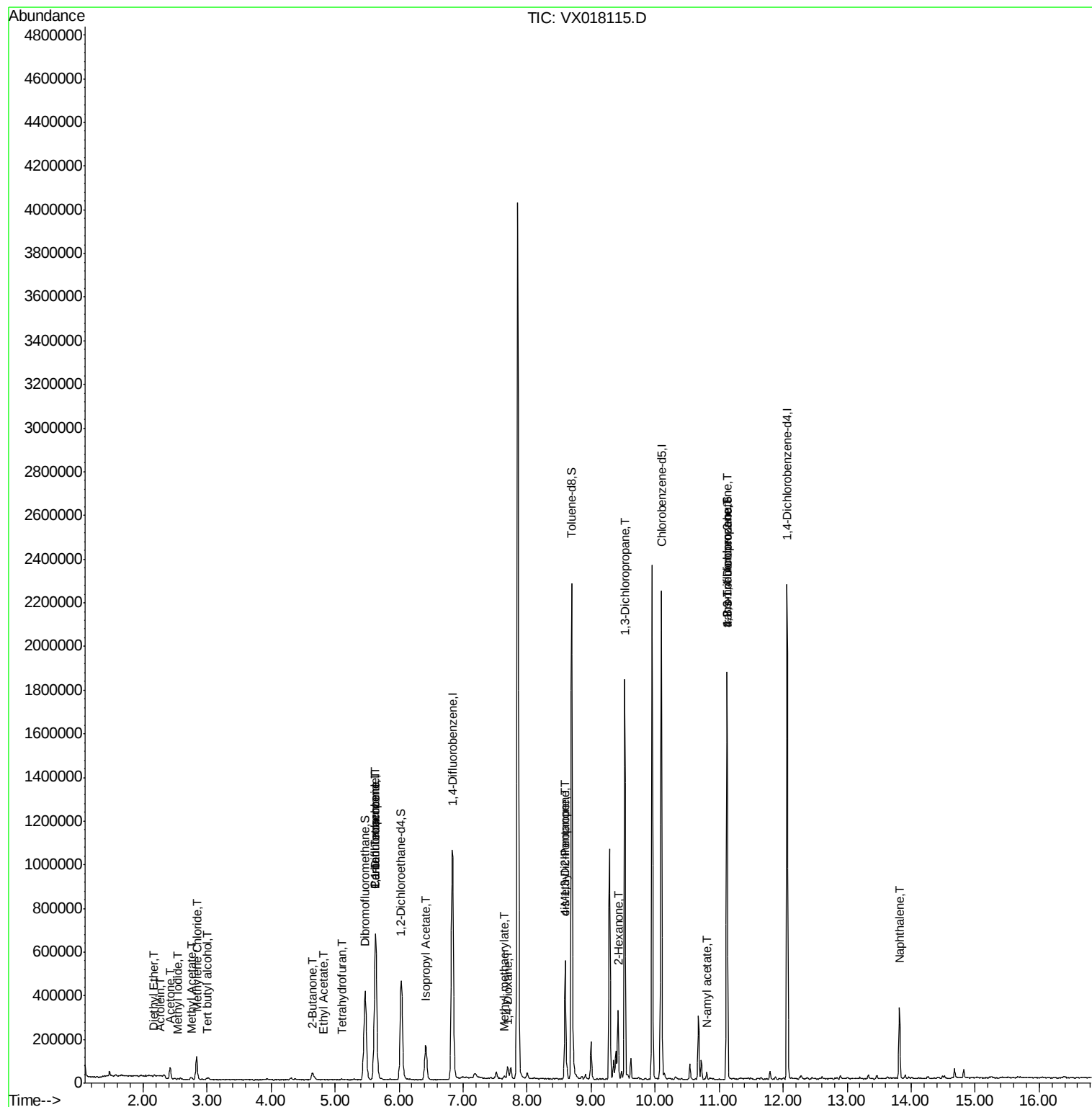
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1714	0.463	ug/l	62
10) Methyl Iodide	2.55	142	324	5.332	ug/l	99
11) Tert butyl alcohol	3.01	59	11792	6.974	ug/l #	93
13) Acrolein	2.27	56	285	0.407	ug/l #	1
16) Acetone	2.42	43	56993	16.819	ug/l	95
18) Methyl Acetate	2.75	43	13698	1.675	ug/l	92
20) Methylene Chloride	2.84	84	48632	5.991	ug/l	98
25) 2-Butanone	4.64	43	44535	7.997	ug/l	99
29) Tetrahydrofuran	5.10	42	2173	0.613	ug/l #	69
36) 1,1-Dichloropropene	5.63	75	49761	5.099	ug/l #	51
37) Ethyl Acetate	4.82	43	2583	0.228	ug/l #	84
38) Carbon Tetrachloride	5.64	117	64488	5.863	ug/l #	17
43) Isopropyl Acetate	6.42	43	220313	12.034	ug/l	99
48) Methyl methacrylate	7.65	41	13462	1.477	ug/l #	17
49) 1,4-Dioxane	7.71	88	137	0.830	ug/l #	23
51) 4-Methyl-2-Pentanone	8.59	43	204415	18.075	ug/l #	53
54) cis-1,3-Dichloropropene	8.59	75	88621	6.955	ug/l #	58
57) 1,3-Dichloropropane	9.52	76	14532	1.136	ug/l #	42
59) 2-Hexanone	9.42	43	203793	23.699	ug/l #	25
74) N-amyl acetate	10.81	43	16006	1.094	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	248898	23.926	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	248898	64.620	ug/l #	12
95) Naphthalene	13.82	128	195821	6.332	ug/l	98

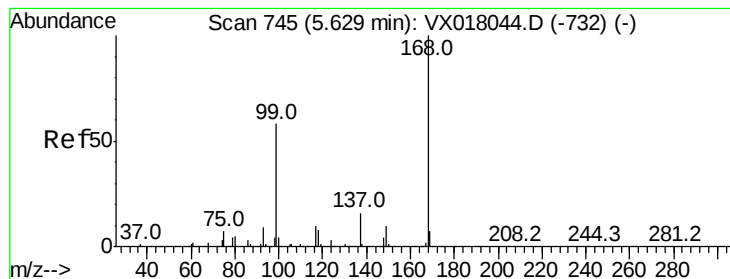
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 29 03:04:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 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: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

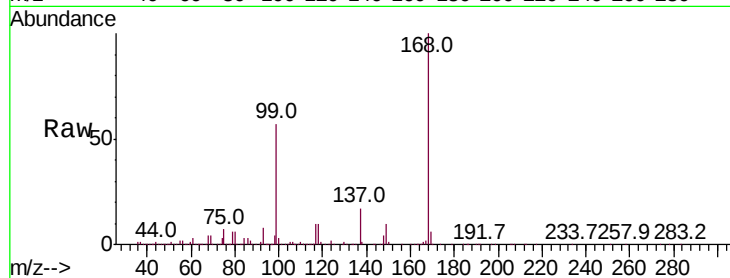
SU-03-082720

Tot Ion:168 Resp: 626411

Ion Ratio Lower Upper

168 100

99 57.0 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

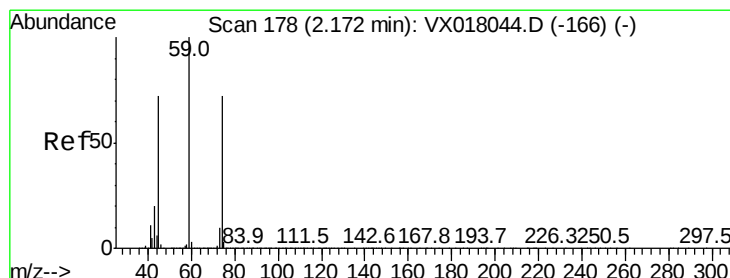
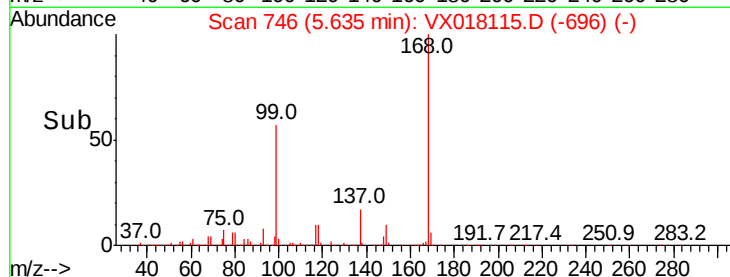
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 0.463 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VX018115.D

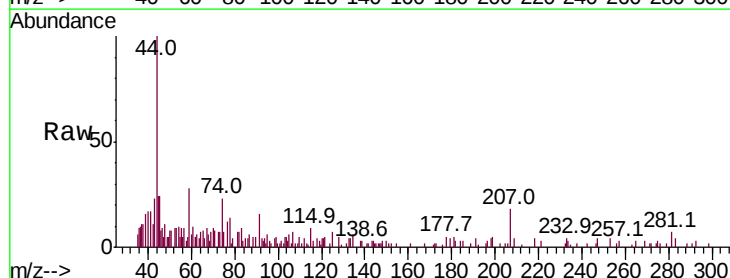
Acq: 28 Aug 2020 13:12

Tgt Ion: 74 Resp: 1714

Ion Ratio Lower Upper

74 100

45 63.6 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2000

1500

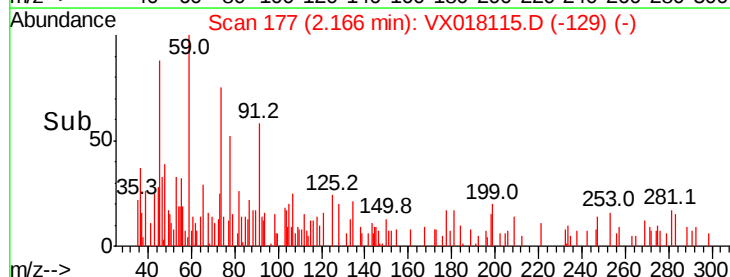
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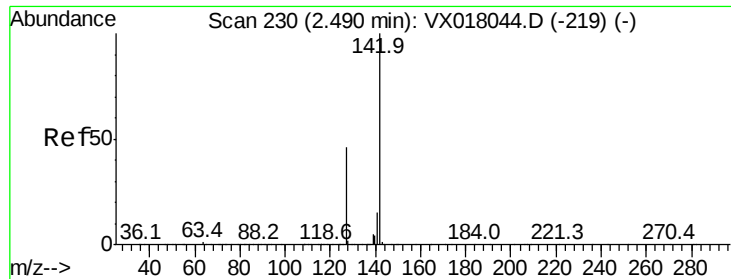
500

0

2.10 2.15 2.20

Time-->

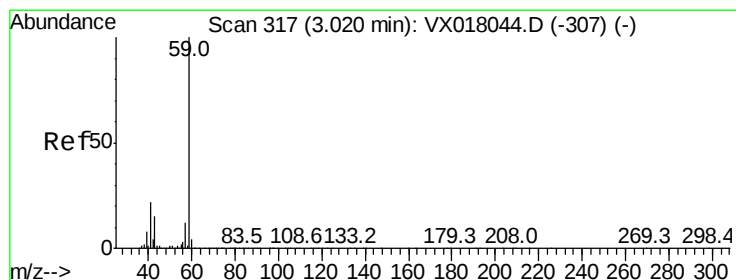
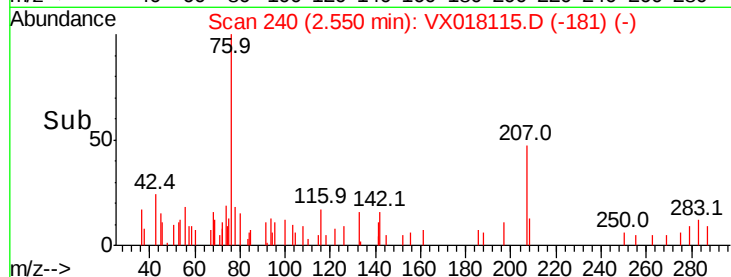
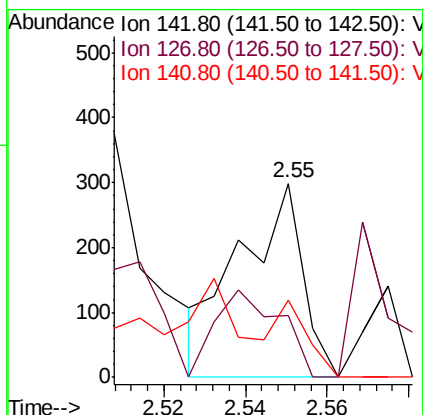
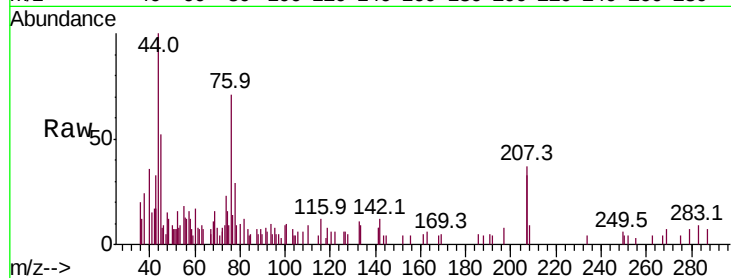




#10
Methyl Iodide
Concen: 5.332 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.06 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

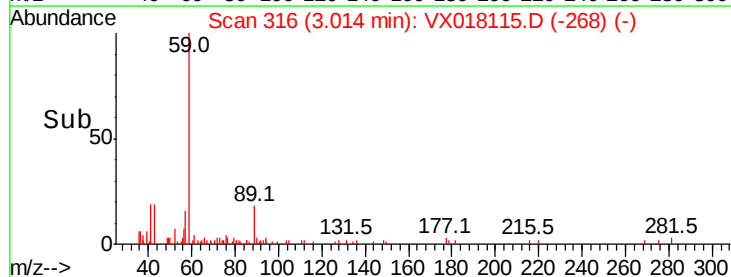
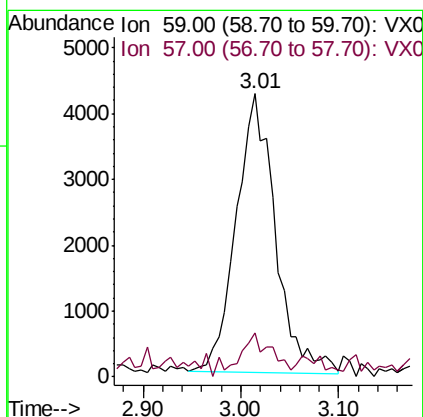
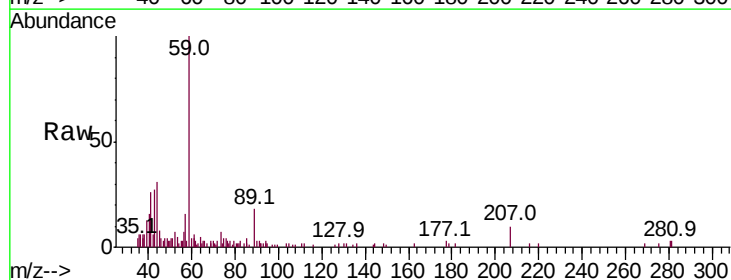
Instrument :
MSVOA_X
ClientSampleId :
SU-03-082720

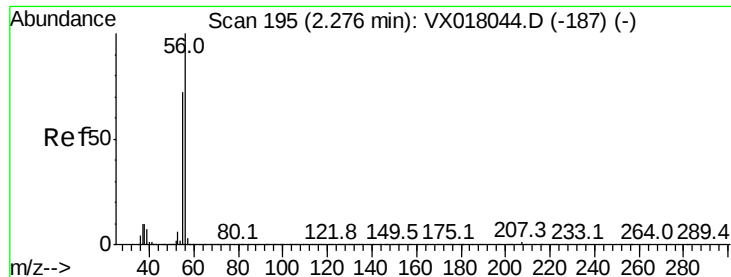
Tot Ion:142 Resp: 324
Ion Ratio Lower Upper
142 100
127 46.3 37.0 55.6
141 16.7 11.5 17.3



#11
Tert butyl alcohol
Concen: 6.974 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

Tgt Ion: 59 Resp: 11792
Ion Ratio Lower Upper
59 100
57 8.3 8.9 13.3#





#13

Acrolein

Concen: 0.407 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

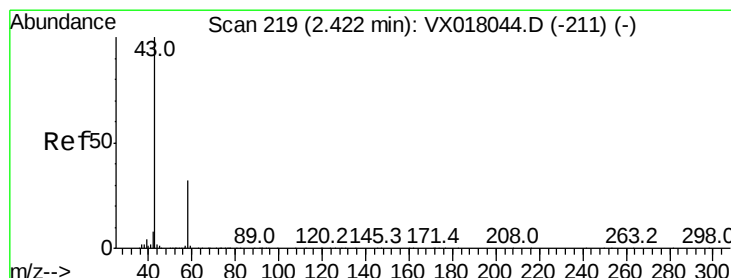
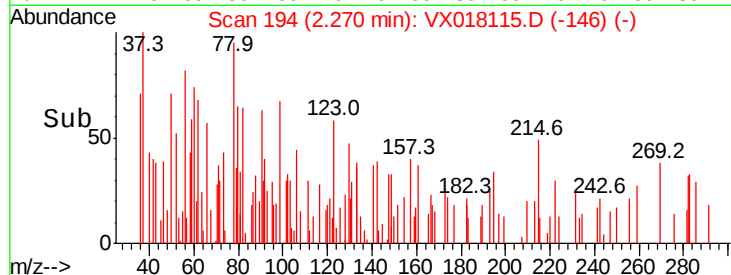
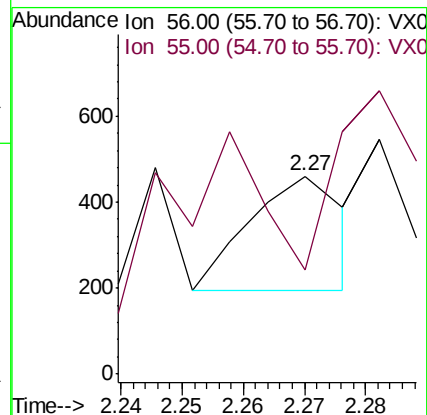
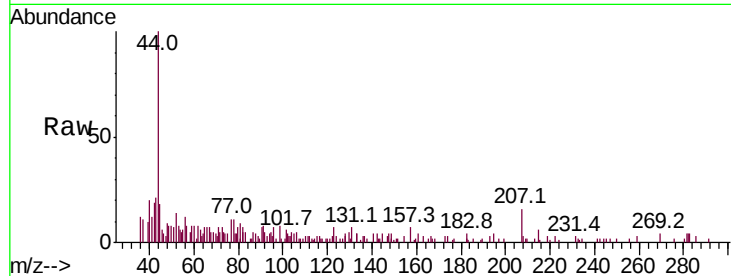
SU-03-082720

Tot Ion: 56 Resp: 285

Ion Ratio Lower Upper

56 100

55 166.0 57.0 85.6#



#16

Acetone

Concen: 16.819 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018115.D

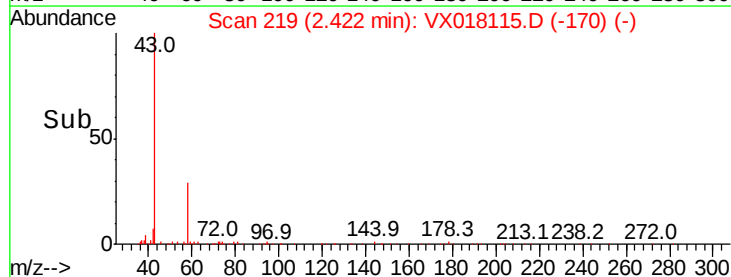
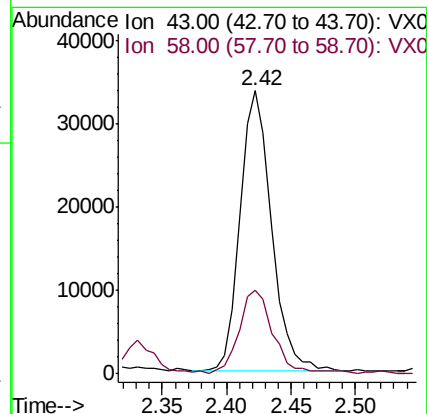
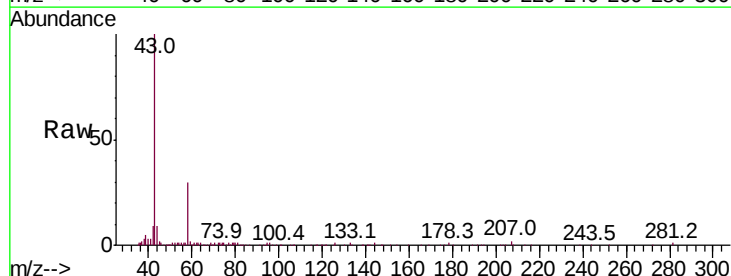
Acq: 28 Aug 2020 13:12

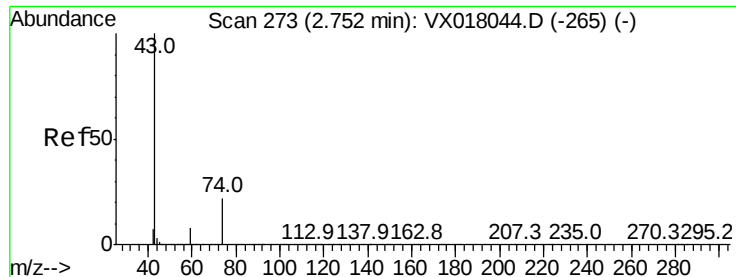
Tgt Ion: 43 Resp: 56993

Ion Ratio Lower Upper

43 100

58 29.0 25.5 38.3

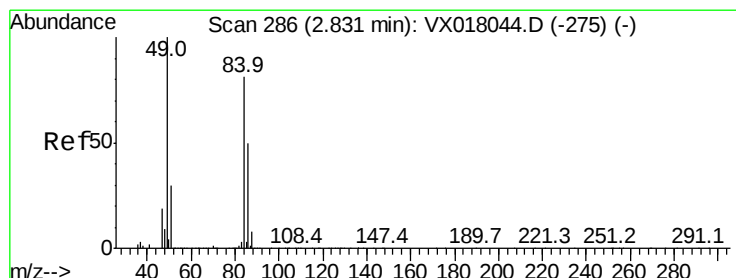
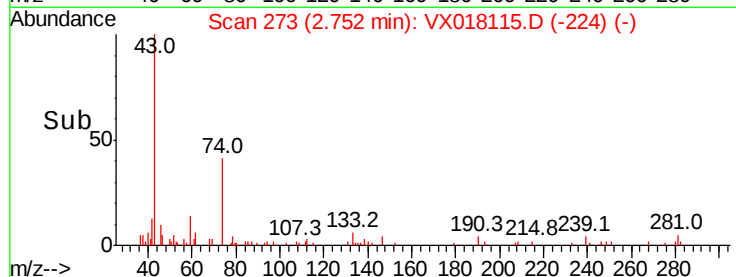
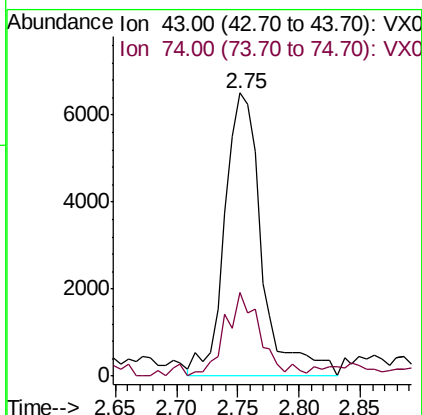
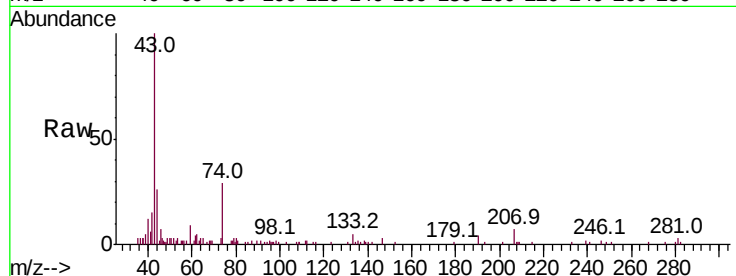




#18
Methvl Acetate
Concen: 1.675 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

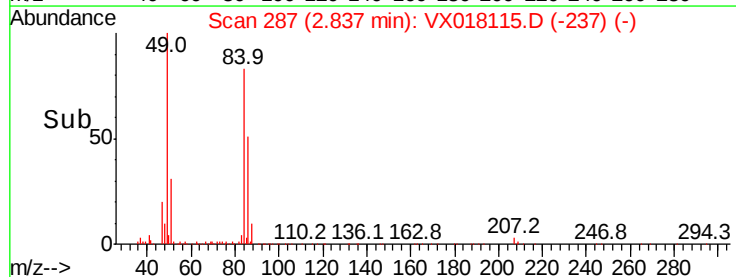
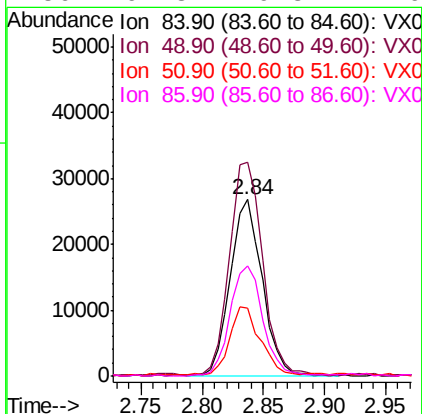
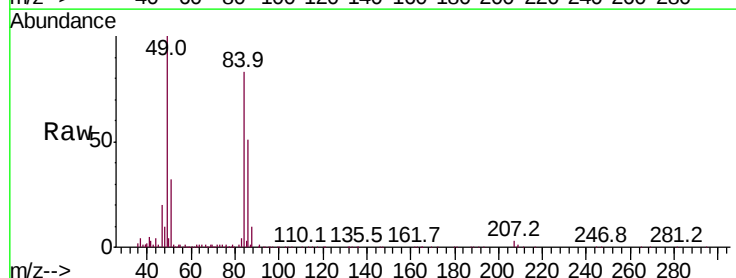
Instrument :
MSVOA_X
ClientSampleId :
SU-03-082720

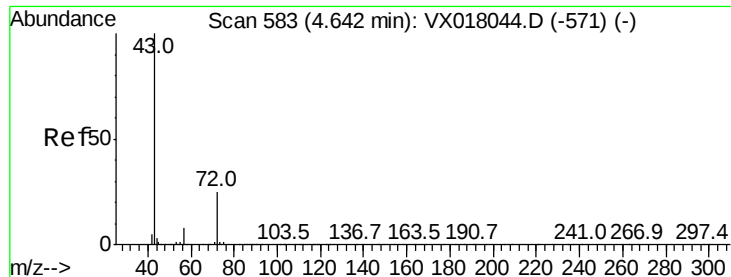
Tot Ion: 43 Resp: 13698
Ion Ratio Lower Upper
43 100
74 26.8 18.2 27.4



#20
Methylene Chloride
Concen: 5.991 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

Tgt Ion: 84 Resp: 48632
Ion Ratio Lower Upper
84 100
49 120.3 98.6 148.0
51 37.7 29.6 44.4
86 62.3 49.8 74.6





#25

2-Butanone

Concen: 7.997 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

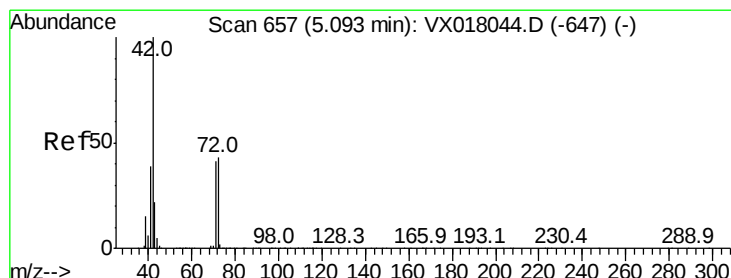
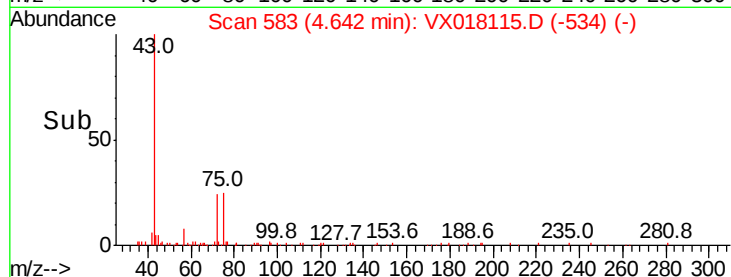
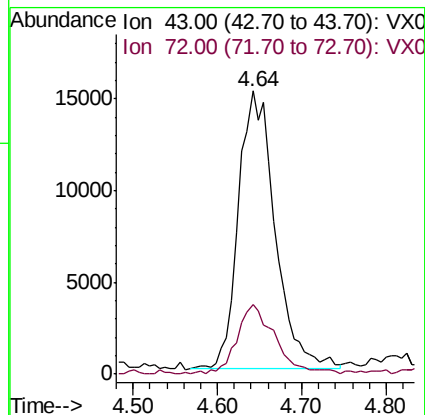
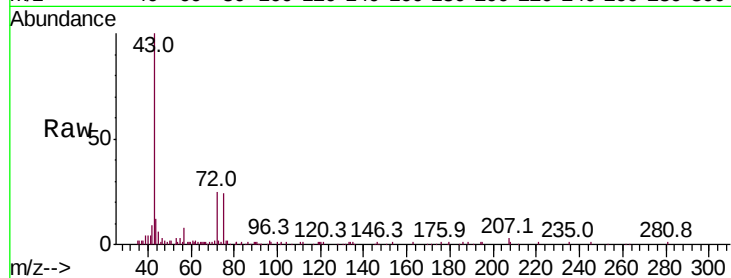
SU-03-082720

Tot Ion: 43 Resp: 44535

Ion Ratio Lower Upper

43 100

72 25.4 19.8 29.6



#29

Tetrahydrofuran

Concen: 0.613 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

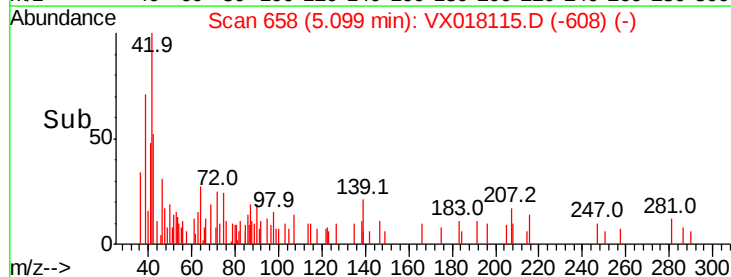
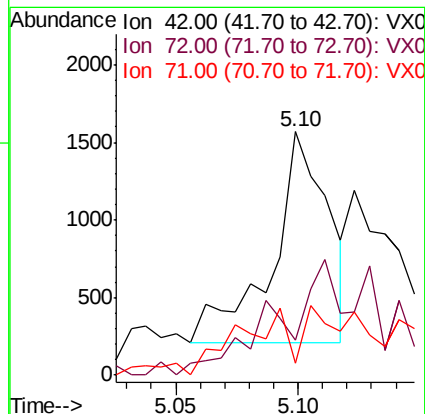
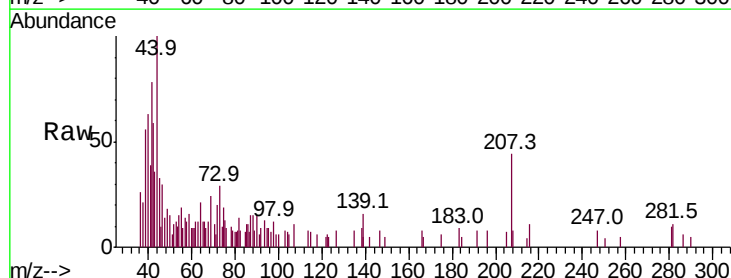
Tgt Ion: 42 Resp: 2173

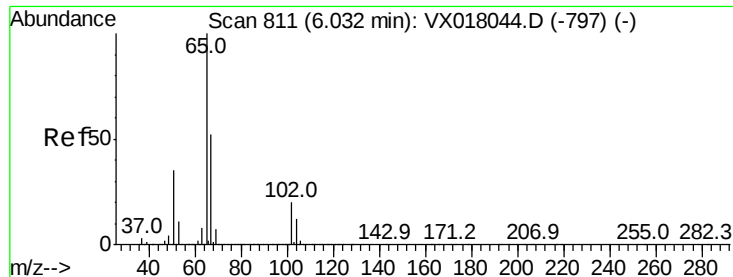
Ion Ratio Lower Upper

42 100

72 66.6 34.2 51.4#

71 25.2 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 50.993 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

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ClientSampleId :

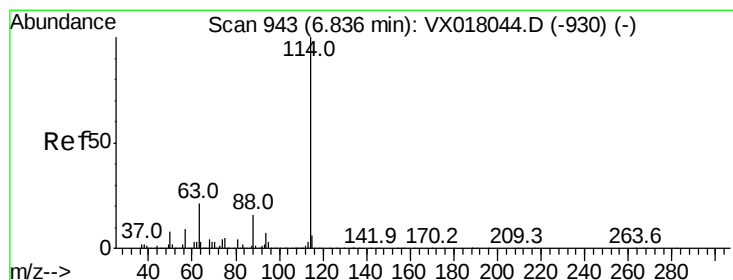
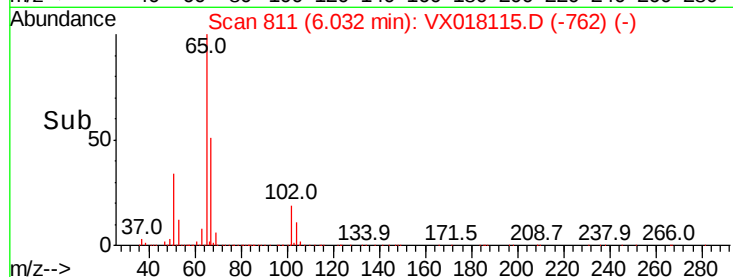
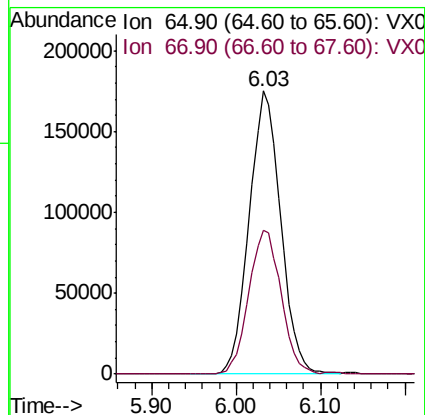
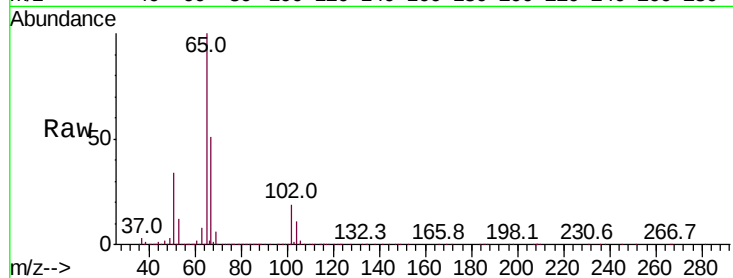
SU-03-082720

Tot Ion: 65 Resp: 443443

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

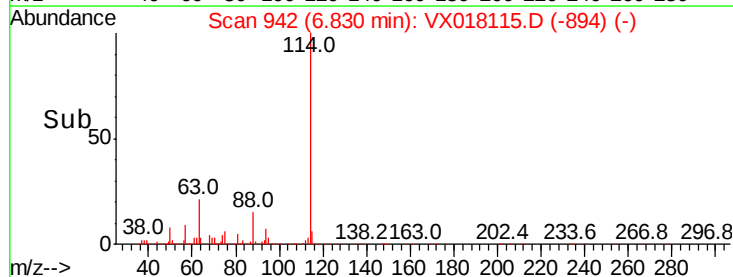
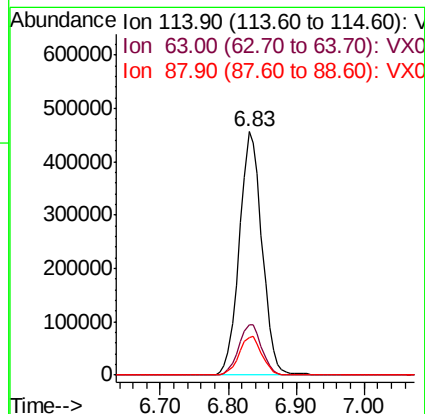
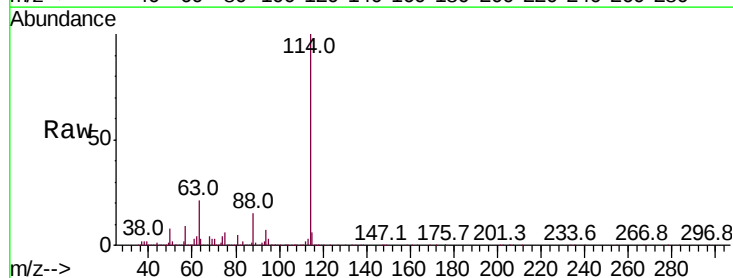
Tgt Ion: 114 Resp: 1058113

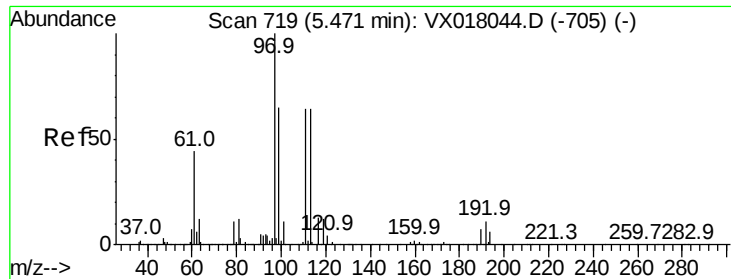
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 15.3 0.0 31.8

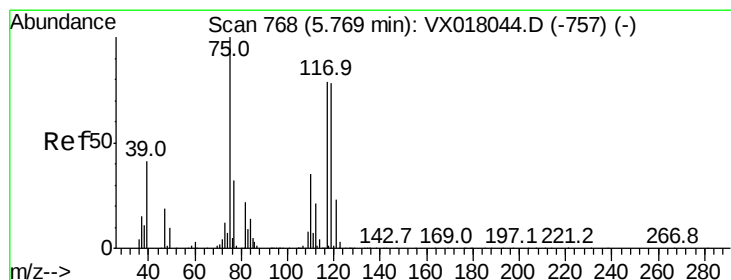
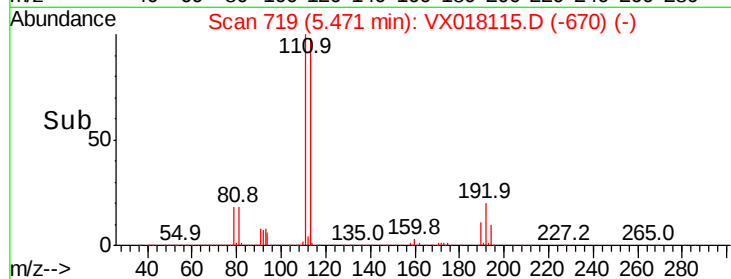
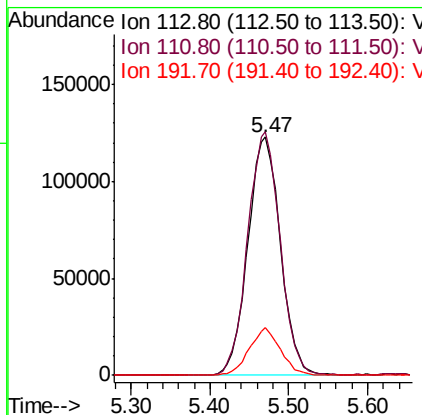
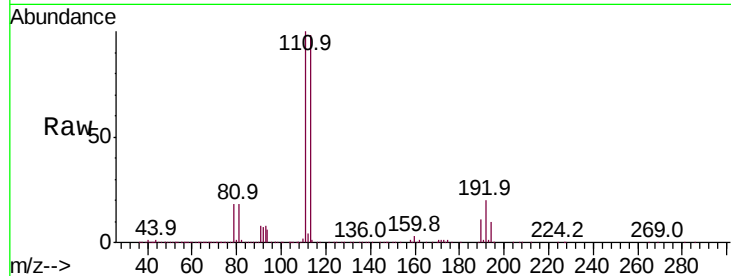




#35
Dibromofluoromethane
Concen: 49.068 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.00 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

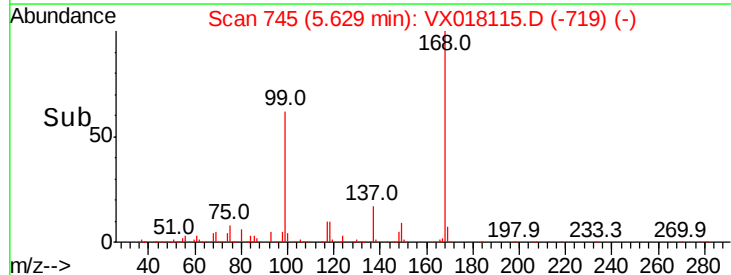
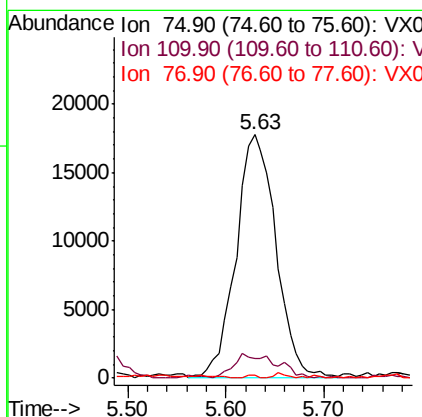
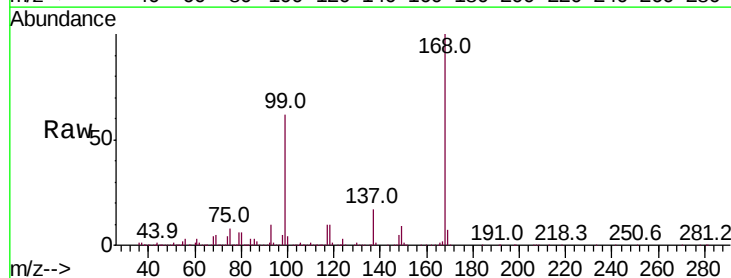
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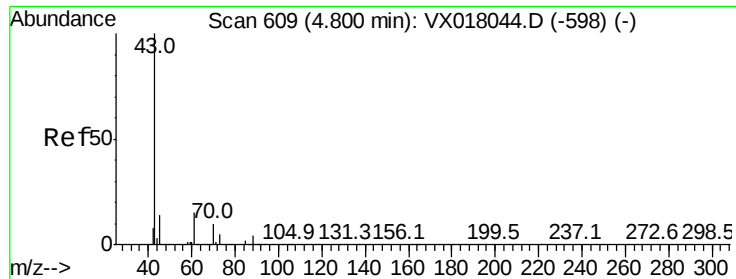
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.6	122.4
192	19.2	15.8	23.8



#36
1,1-Dichloropropene
Concen: 5.099 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.0	54.0#
77	0.4	24.4	36.6#

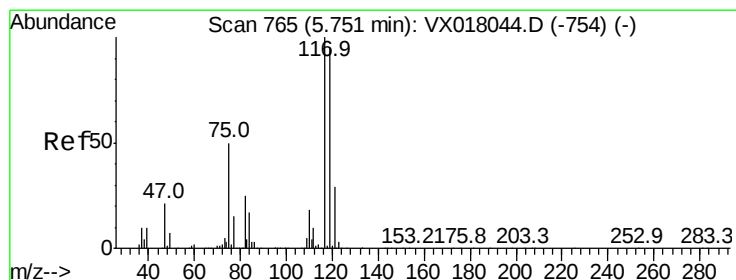
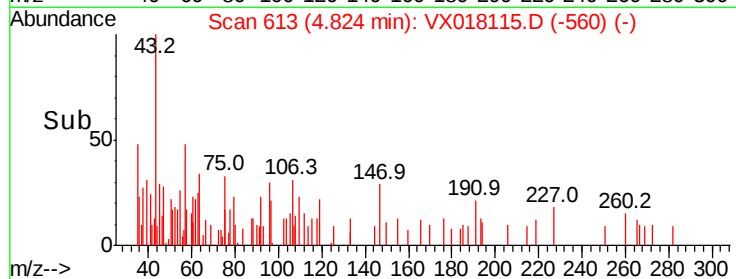
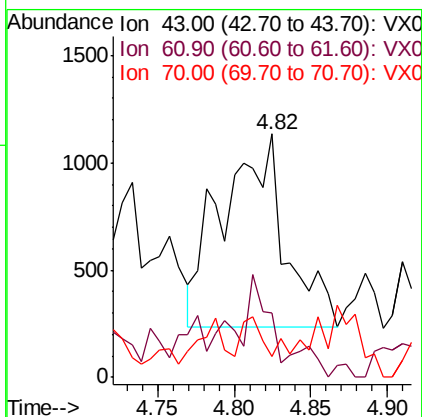
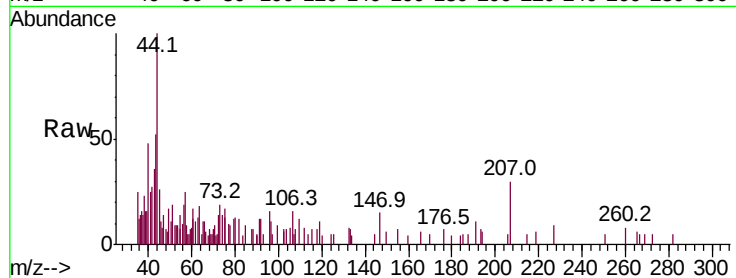




#37
Ethyl Acetate
Concen: 0.228 ug/l
RT: 4.82 min Scan# 613
Delta R.T. 0.02 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

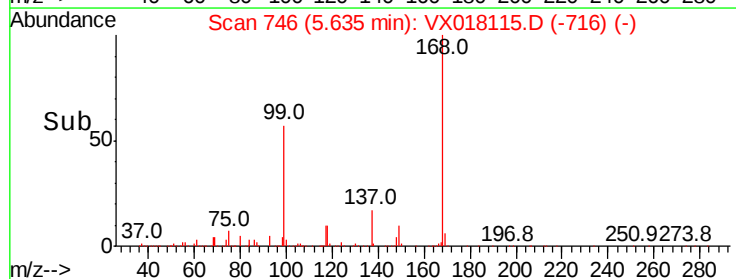
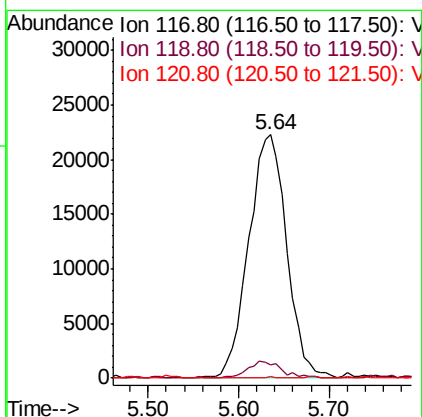
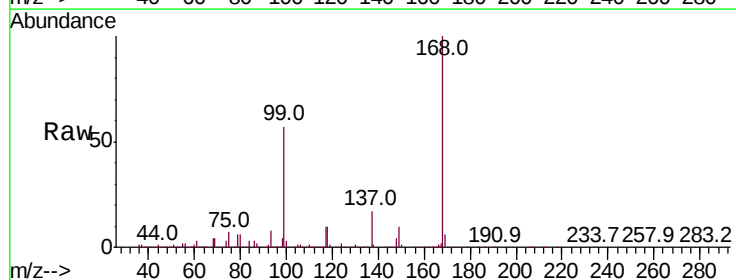
Instrument :
MSVOA_X
ClientSampleId :
SU-03-082720

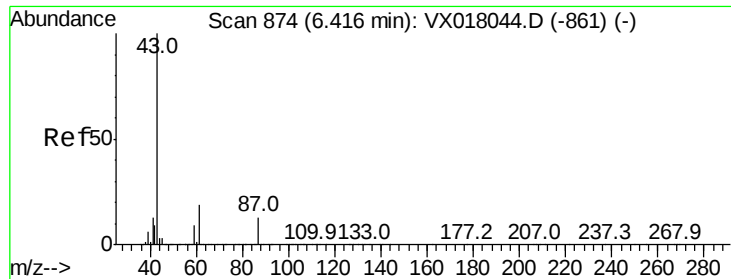
Tot Ion: 43 Resp: 2583
Ion Ratio Lower Upper
43 100
61 23.2 11.3 16.9#
70 7.9 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 5.863 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX018115.D
Acq: 28 Aug 2020 13:12

Tgt Ion: 117 Resp: 64488
Ion Ratio Lower Upper
117 100
119 5.2 75.8 113.6#
121 0.5 23.4 35.0#



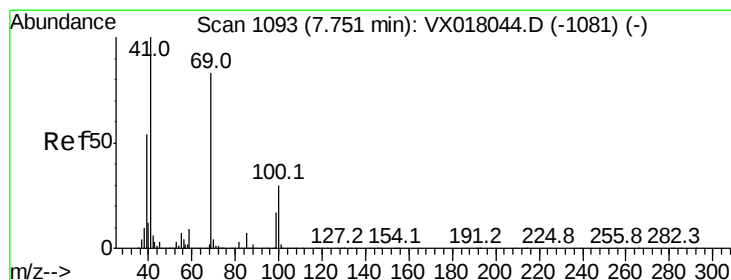
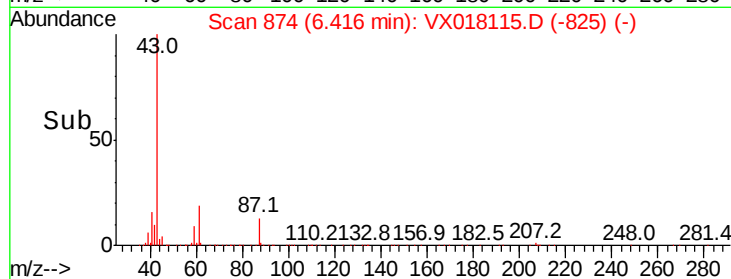
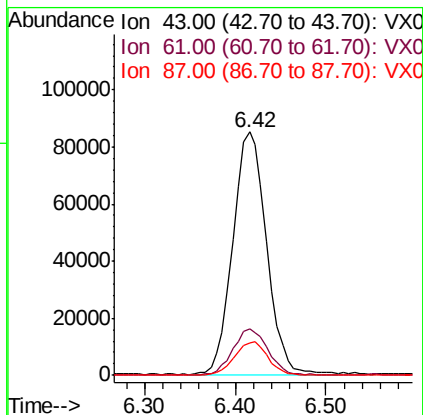
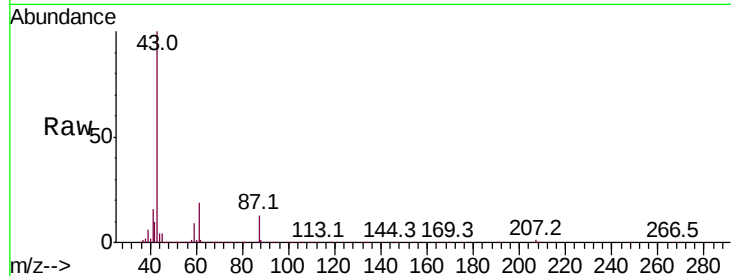


#43

Isopropyl Acetate
 Concen: 12.034 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VX018115.D
 Acq: 28 Aug 2020 13:12

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-03-082720

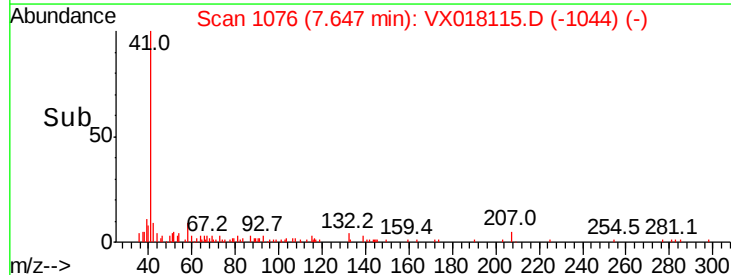
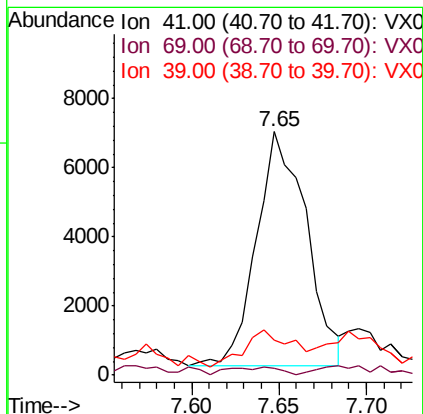
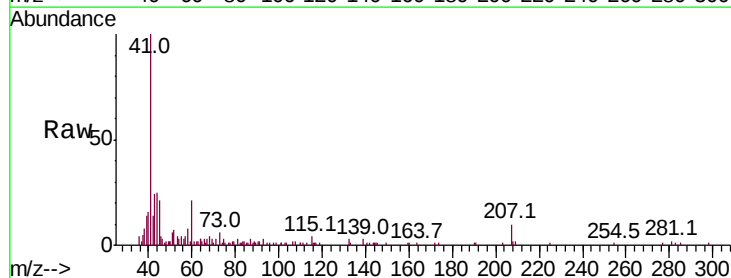
Tot Ion	43	Resp	220313
Ion Ratio	100	Lower	Upper
61	19.4	15.7	23.5
87	13.7	10.3	15.5

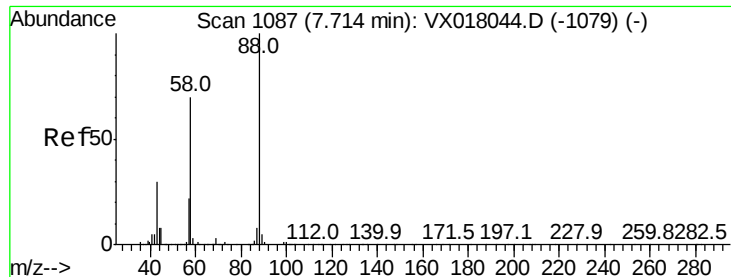


#48

Methyl methacrylate
 Concen: 1.477 ug/l
 RT: 7.65 min Scan# 1076
 Delta R.T. -0.10 min
 Lab File: VX018115.D
 Acq: 28 Aug 2020 13:12

Tgt Ion	41	Resp	13462
Ion Ratio	100	Lower	Upper
69	3.6	65.5	98.3#
39	0.0	44.5	66.7#





#49

1,4-Dioxane

Concen: 0.830 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

SU-03-082720

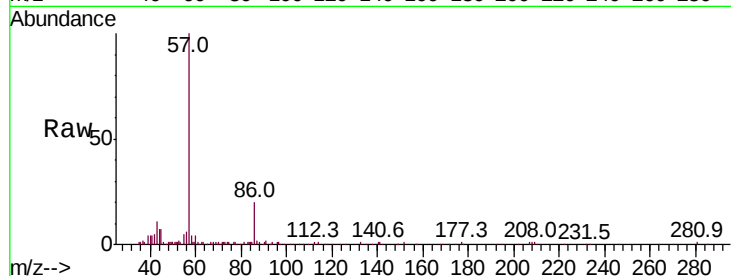
Tot Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

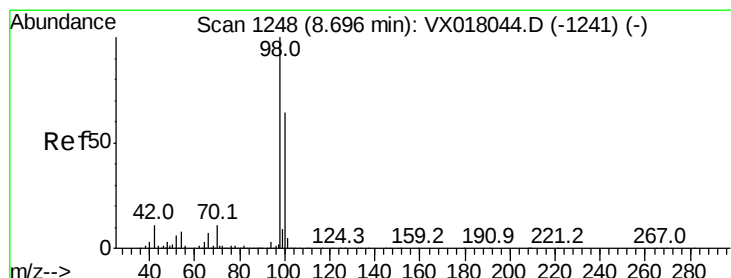
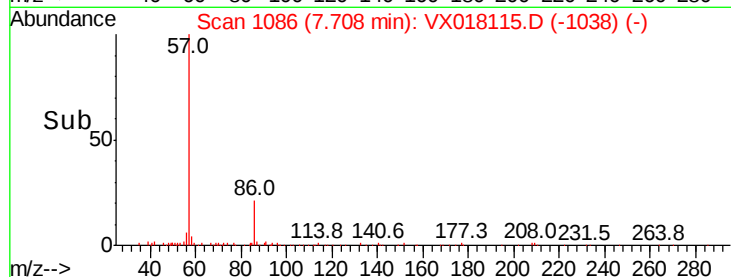
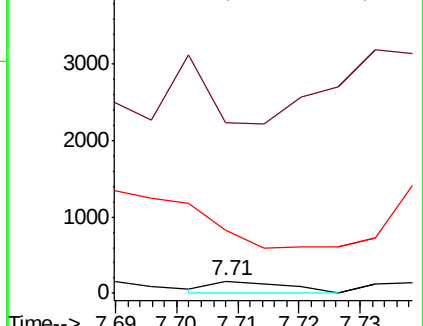
58 0.0 56.4 84.6#



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: 49.105 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018115.D

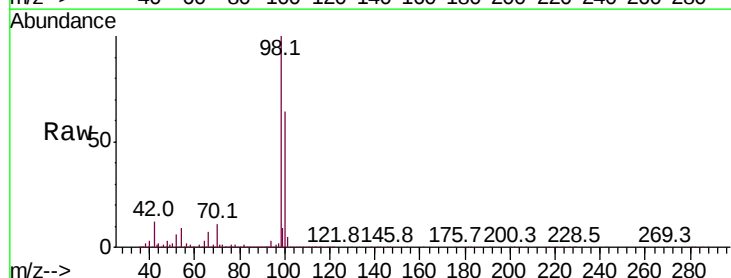
Acq: 28 Aug 2020 13:12

Tgt Ion: 98 Resp: 1317997

Ion Ratio Lower Upper

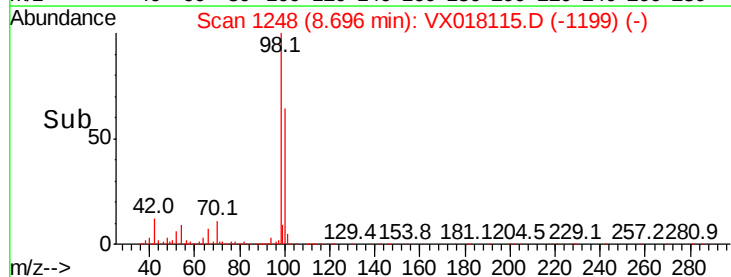
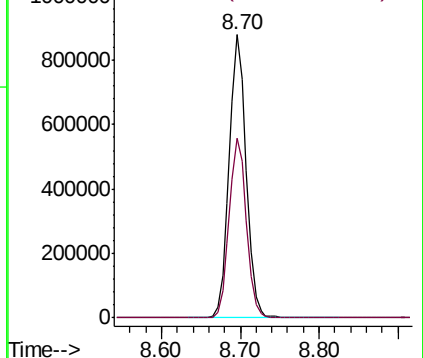
98 100

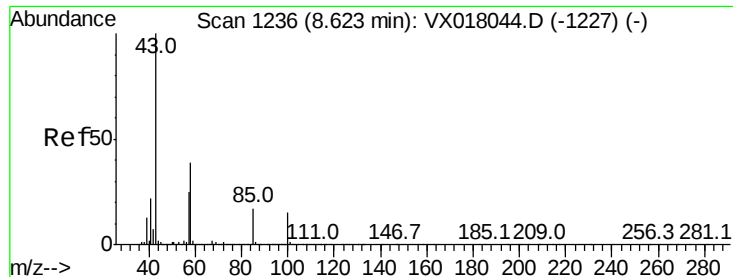
100 64.4 52.2 78.4



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: 18.075 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampled :

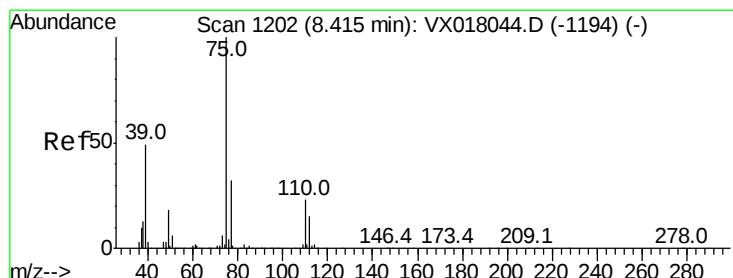
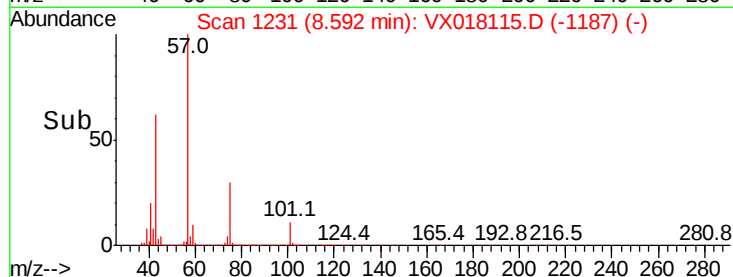
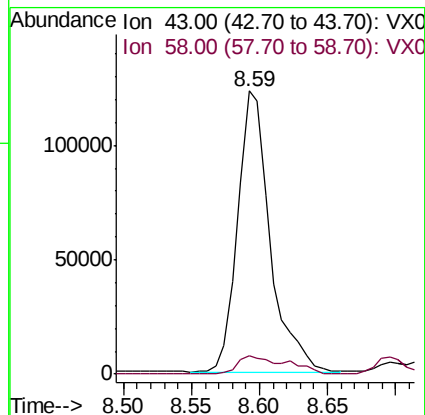
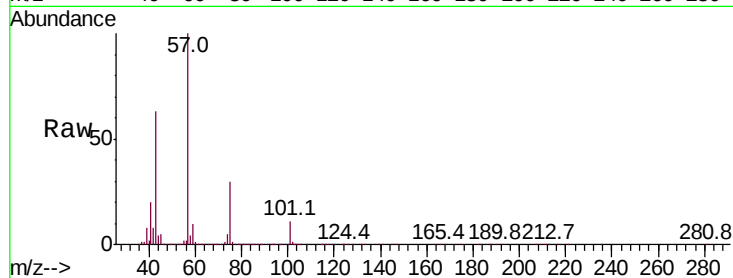
SU-03-082720

Tot Ion: 43 Resp: 204415

Ion Ratio Lower Upper

43 100

58 9.9 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 6.955 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

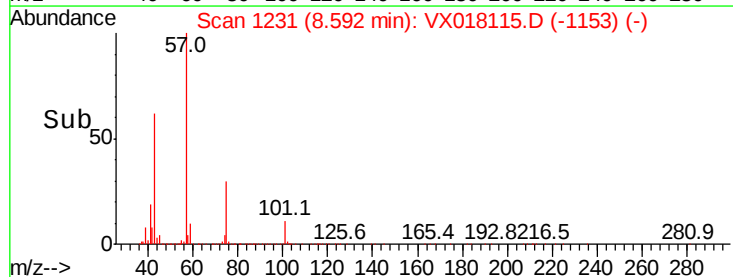
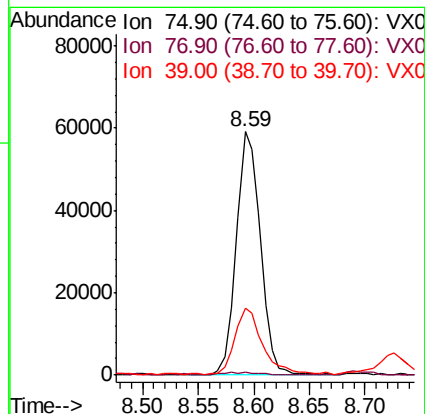
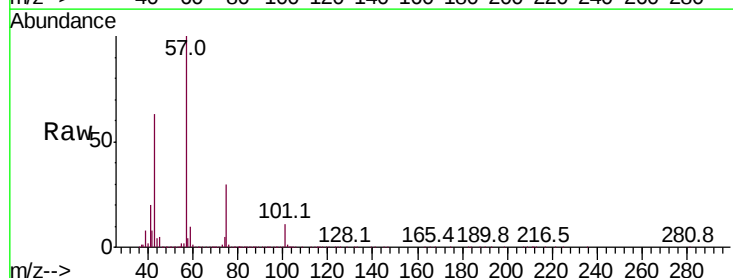
Tgt Ion: 75 Resp: 88621

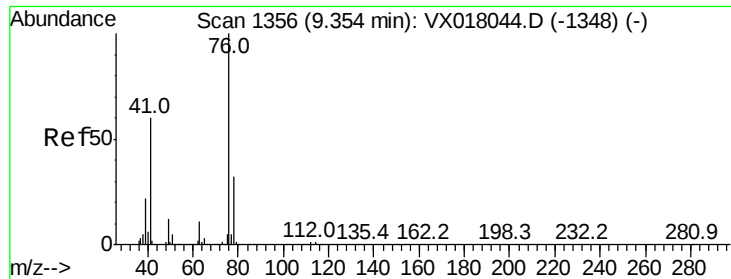
Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

39 27.1 38.8 58.2#





#57

1,3-Dichloropropane

Concen: 1.136 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

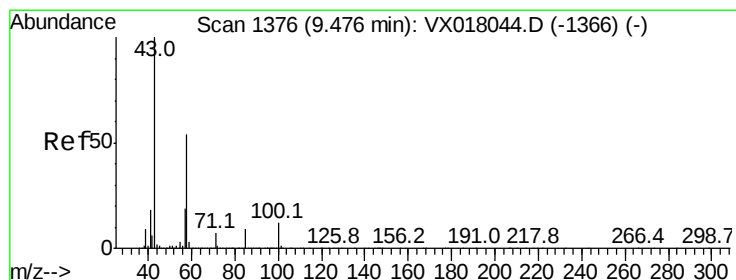
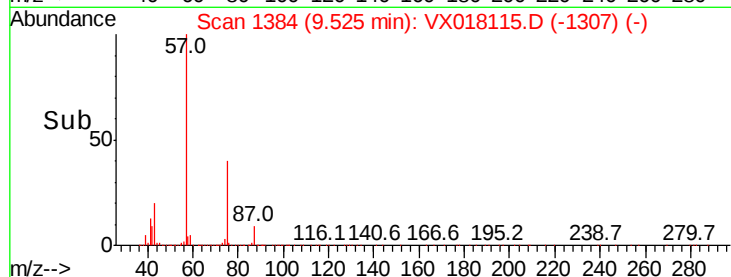
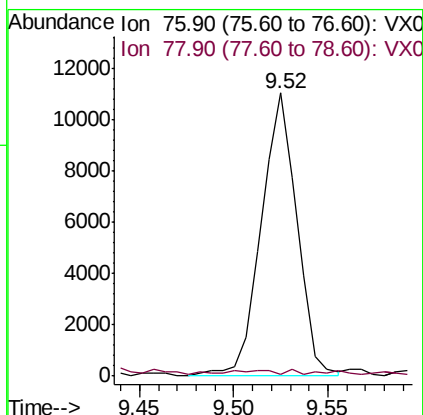
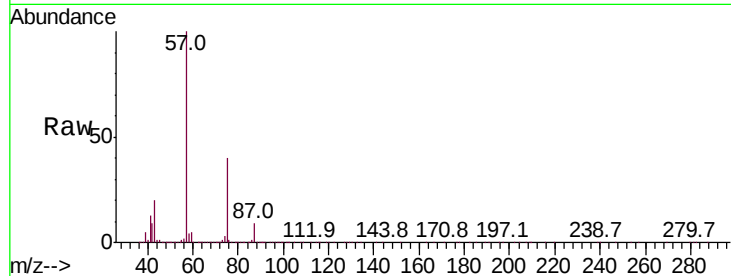
SU-03-082720

Tot Ion: 76 Resp: 14532

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 23.699 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX018115.D

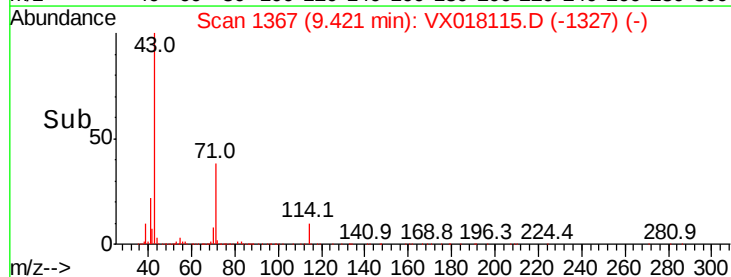
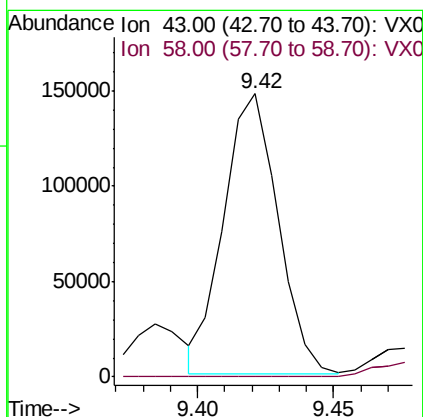
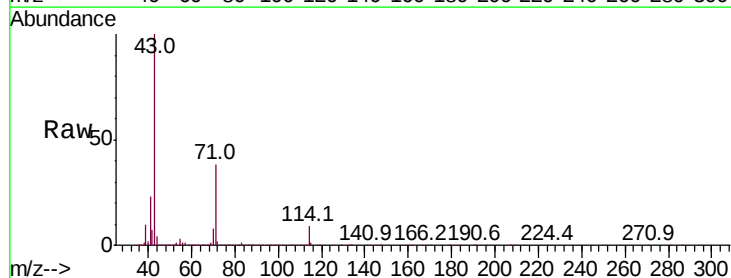
Acq: 28 Aug 2020 13:12

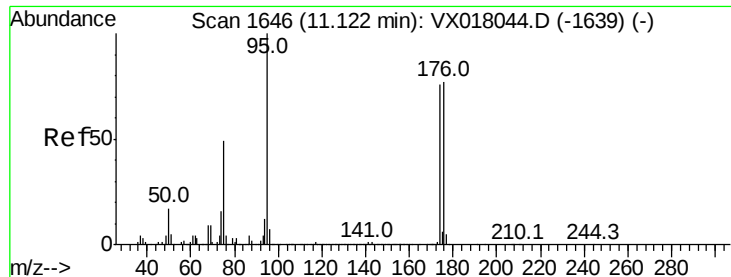
Tgt Ion: 43 Resp: 203793

Ion Ratio Lower Upper

43 100

58 0.0 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 47.204 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

SU-03-082720

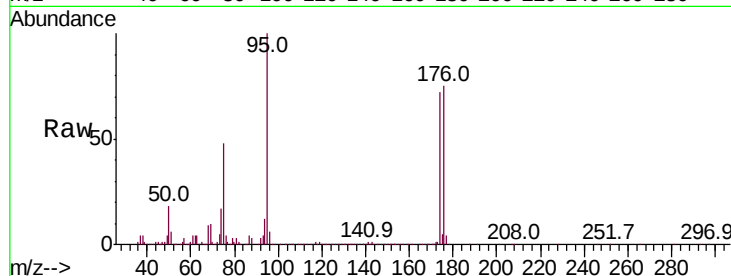
Tot Ion: 95 Resp: 498471

Ion Ratio Lower Upper

95 100

174 73.3 0.0 160.2

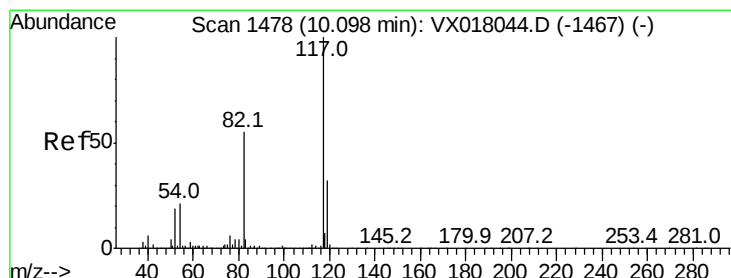
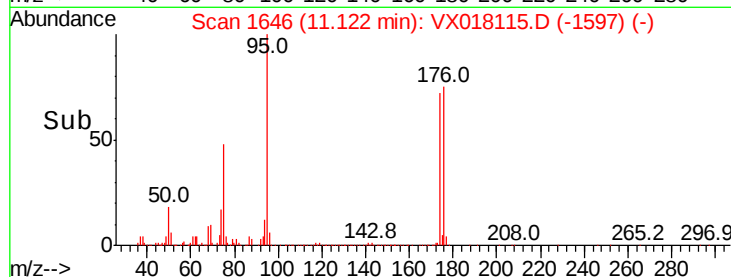
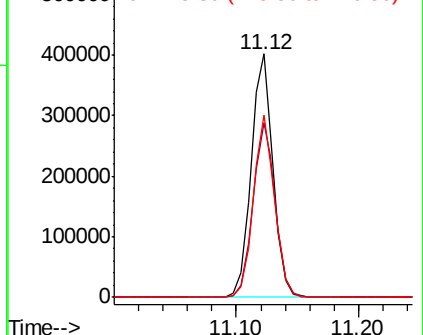
176 73.1 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

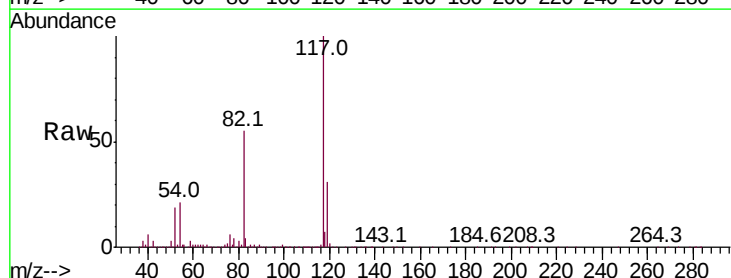
Tgt Ion: 117 Resp: 1017964

Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

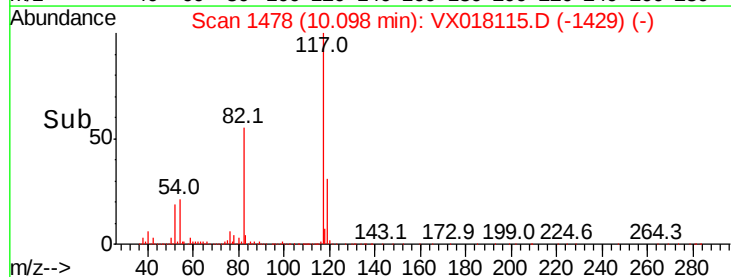
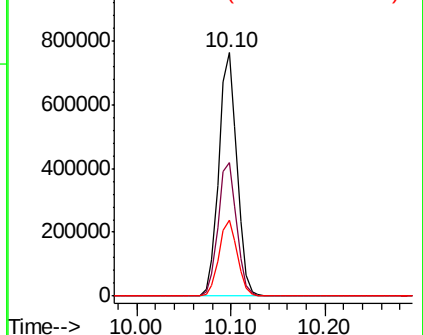
119 31.2 25.7 38.5

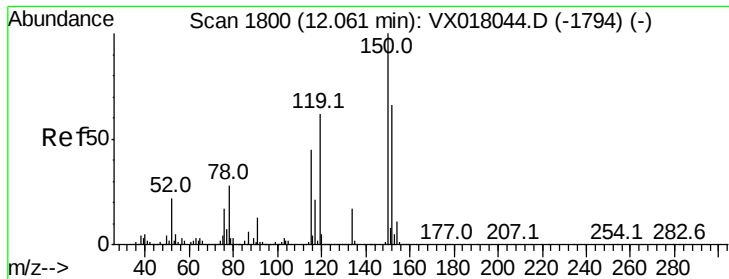


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

SU-03-082720

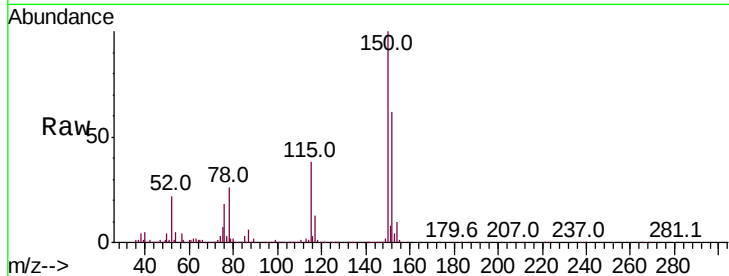
Tot Ion:152 Resp: 467638

Ion Ratio Lower Upper

152 100

115 61.1 41.5 124.5

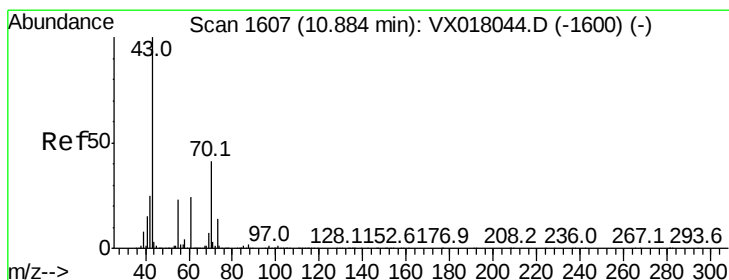
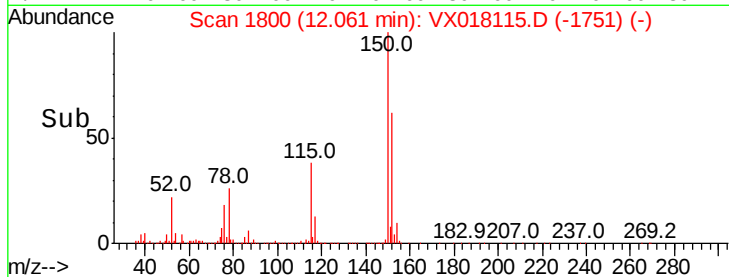
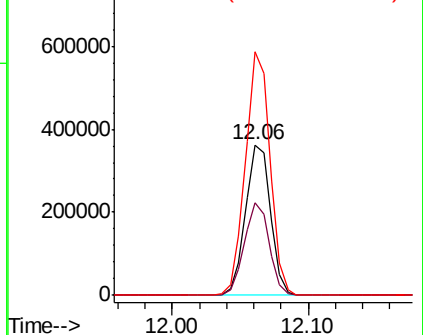
150 159.5 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.094 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Tgt Ion: 43 Resp: 16006

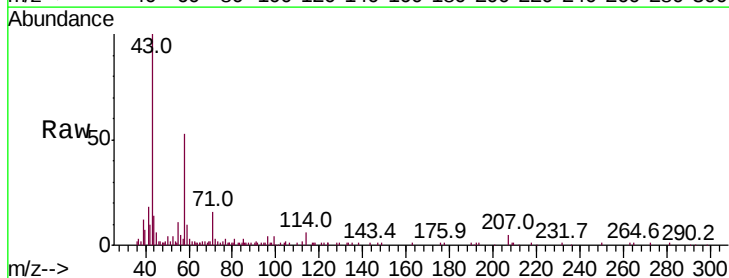
Ion Ratio Lower Upper

43 100

70 1.5 32.3 48.5#

55 9.8 18.2 27.2#

61 0.0 18.9 28.3#

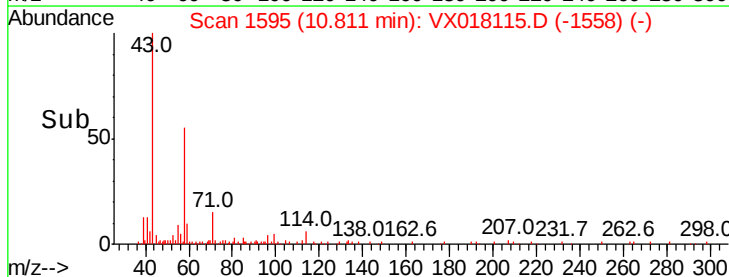
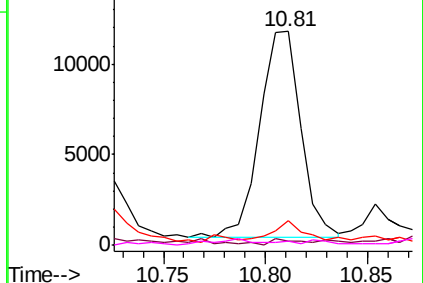


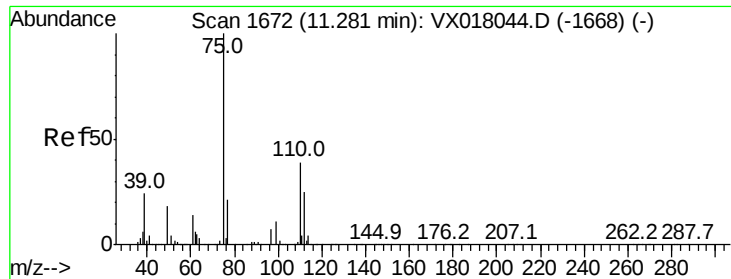
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.926 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

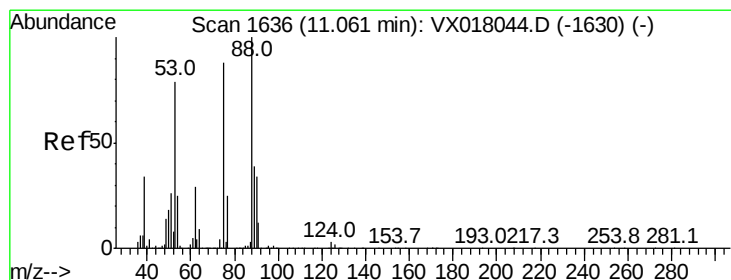
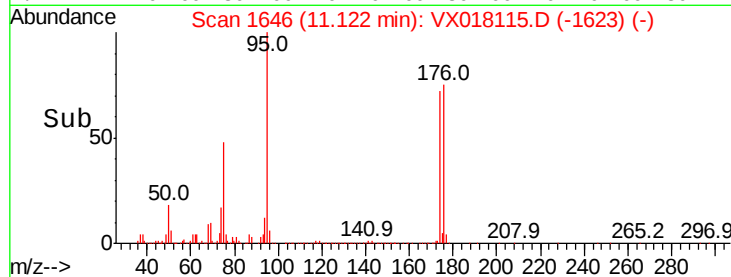
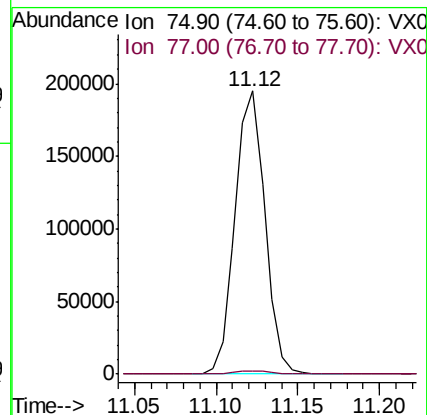
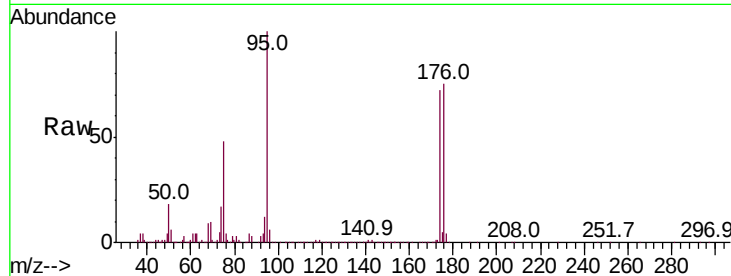
SU-03-082720

Tot Ion: 75 Resp: 248898

Ion Ratio Lower Upper

75 100

77 1.6 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.620 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

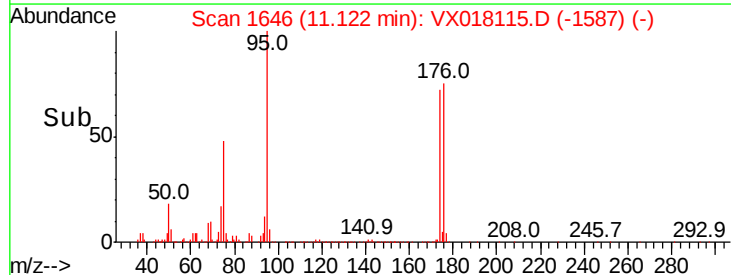
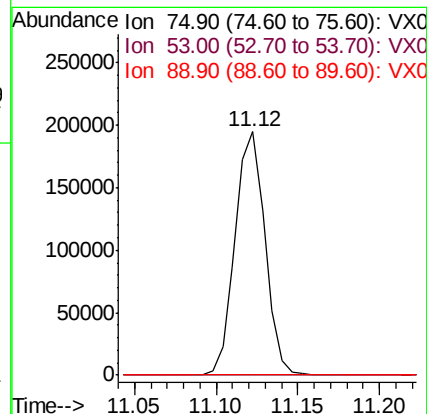
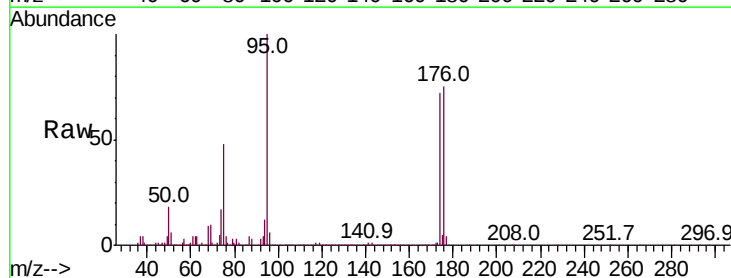
Tgt Ion: 75 Resp: 248898

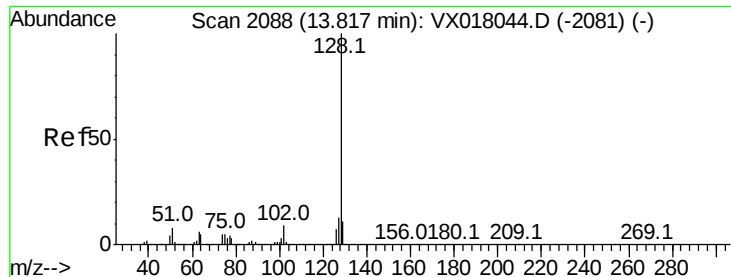
Ion Ratio Lower Upper

75 100

53 0.2 74.7 112.1#

89 0.1 36.6 54.8#





#95

Naphthalene

Concen: 6.332 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018115.D

Acq: 28 Aug 2020 13:12

Instrument :

MSVOA_X

ClientSampleId :

SU-03-082720

Tot Ion:128 Resp: 195821

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.2

129 11.4 8.7 13.1

