

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082820\
 Data File : VX018118.D
 Acq On : 28 Aug 2020 14:21
 Operator : JC/SP
 Sample : L3827-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 789UMR-DSP01-02

Quant Time: Aug 29 03:05:40 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	603062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1012565	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	975329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	453984	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	418272	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	5.47	113	334729	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	8.70	98	1251572	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.12	95	468085	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

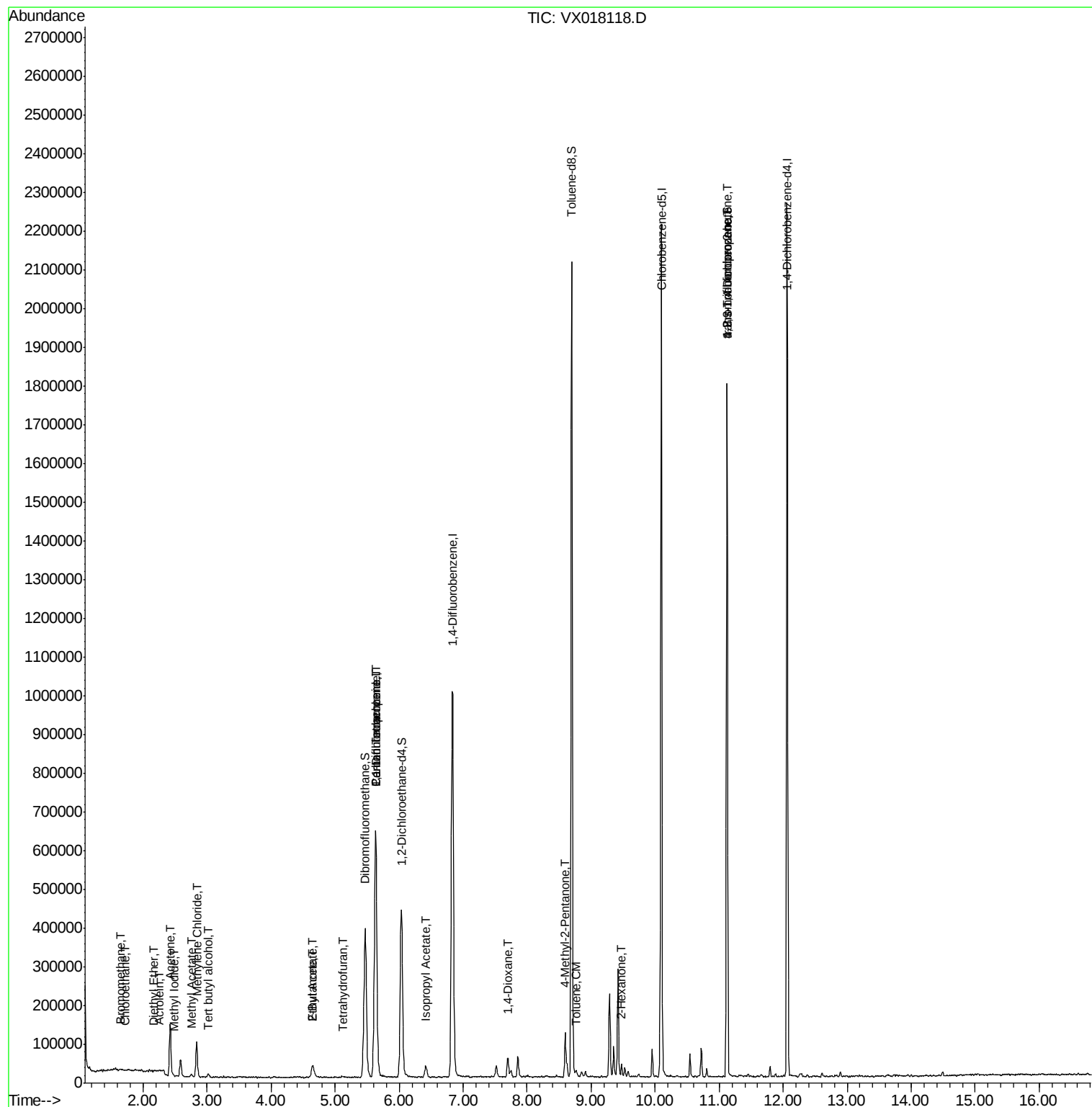
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1410	0.379	ug/l #	34
6) Chloroethane	1.72	64	834	0.202	ug/l #	46
8) Diethyl Ether	2.17	74	1553	0.436	ug/l	65
10) Methyl Iodide	2.49	142	483	5.358	ug/l #	70
11) Tert butyl alcohol	3.01	59	9897	6.080	ug/l #	93
13) Acrolein	2.25	56	204	0.302	ug/l #	1
16) Acetone	2.42	43	141638	43.417	ug/l	99
18) Methyl Acetate	2.75	43	10063	1.278	ug/l	98
20) Methylene Chloride	2.84	84	42164	5.277	ug/l	93
25) 2-Butanone	4.64	43	46155	8.609	ug/l	91
29) Tetrahydrofuran	5.12	42	2160	0.633	ug/l	93
36) 1,1-Dichloropropene	5.64	75	47201	5.054	ug/l #	52
37) Ethyl Acetate	4.64	43	46155	4.255	ug/l #	71
38) Carbon Tetrachloride	5.63	117	62205	5.910	ug/l #	17
43) Isopropyl Acetate	6.42	43	40917	2.335	ug/l	96
49) 1,4-Dioxane	7.71	88	104	0.658	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	55266	5.107	ug/l #	37
52) Toluene	8.77	92	3758	0.216	ug/l	96
59) 2-Hexanone	9.48	43	16582	2.015	ug/l	92
76) 1,2,3-Trichloropropane	11.12	75	234813	23.251	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	234813	62.797	ug/l #	12

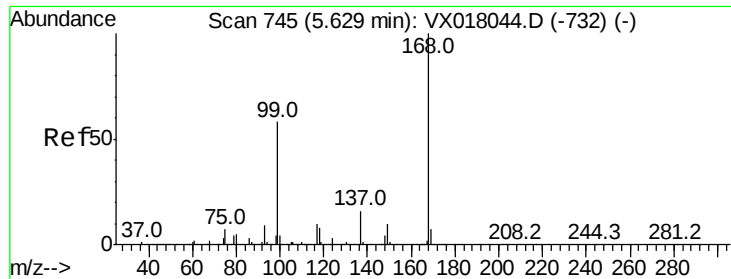
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

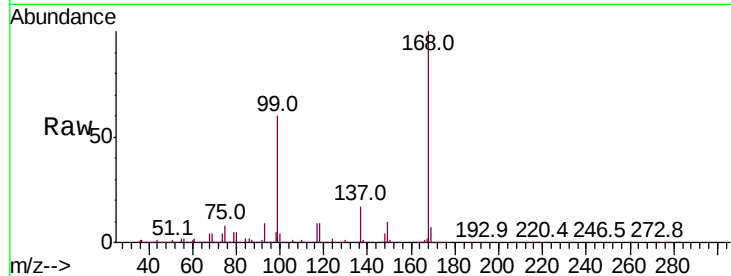
789UMR-DSP01-02

Tot Ion:168 Resp: 603062

Ion Ratio Lower Upper

168 100

99 59.6 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

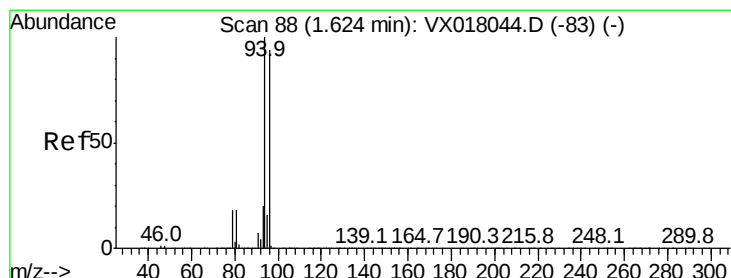
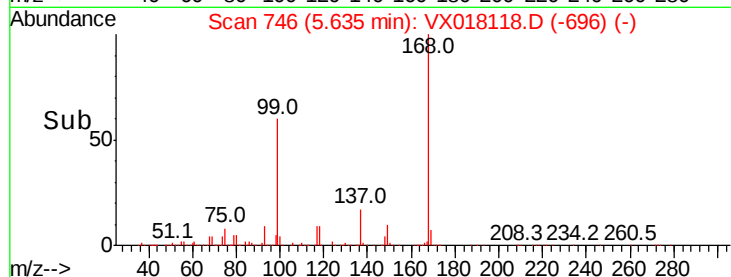
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.379 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018118.D

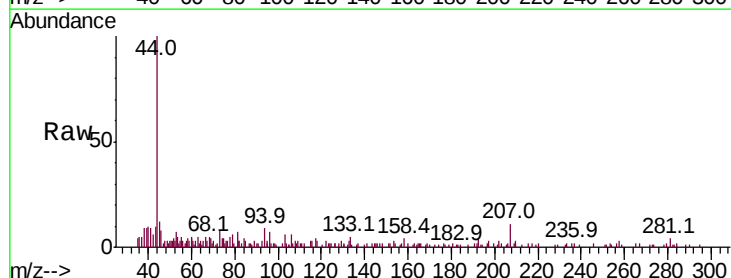
Acq: 28 Aug 2020 14:21

Tgt Ion: 94 Resp: 1410

Ion Ratio Lower Upper

94 100

96 29.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

500

400

300

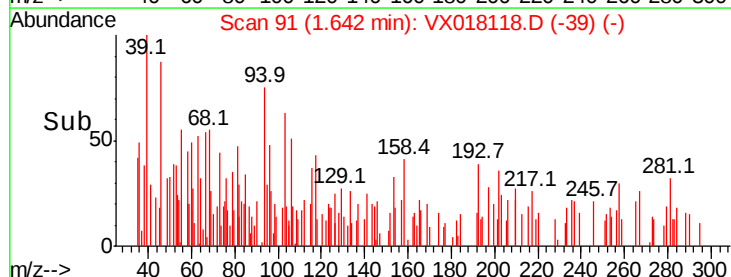
200

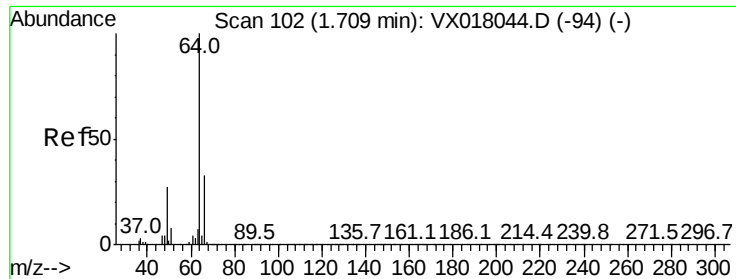
100

0

1.60 1.65 1.70

Time-->

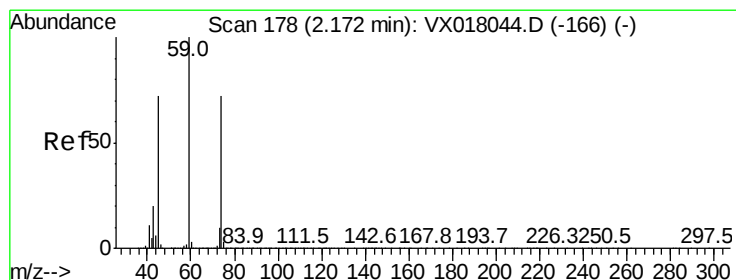
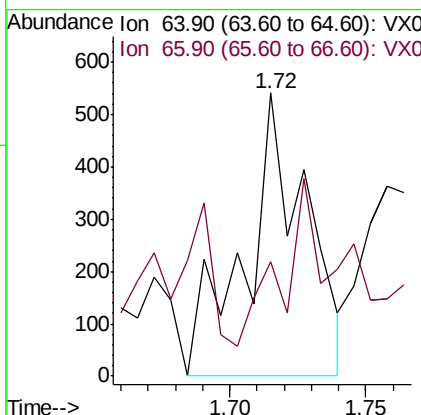
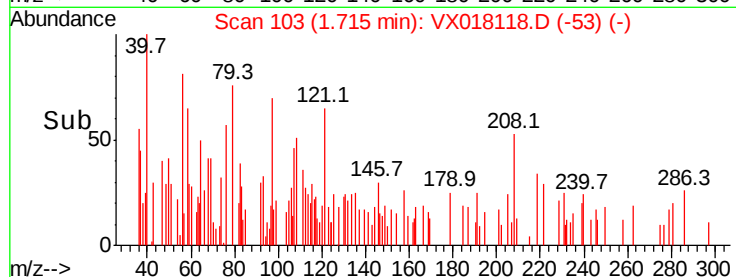
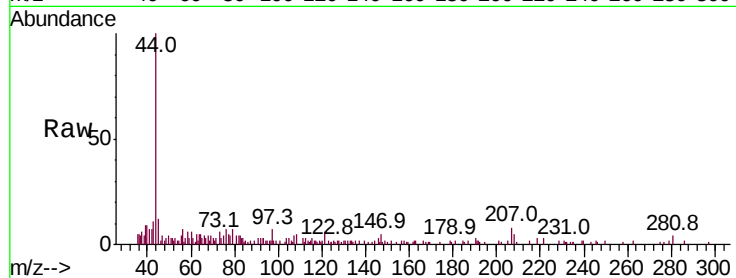




#6
Chloroethane
Concen: 0.202 ug/l
RT: 1.72 min Scan# 103
Delta R.T. 0.01 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

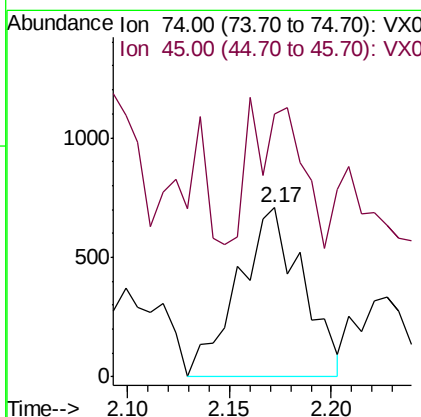
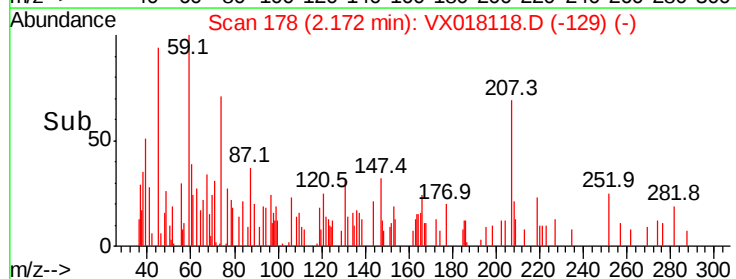
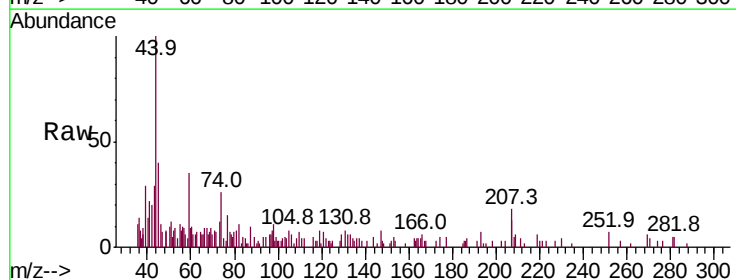
Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

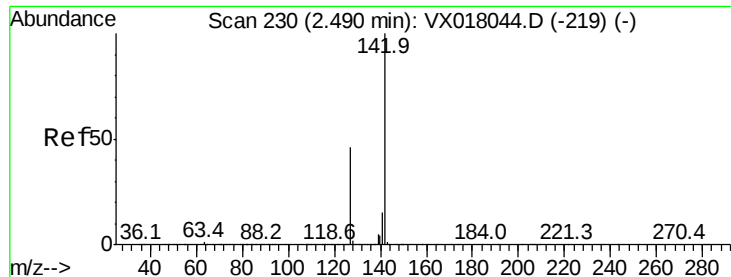
Tot Ion: 64 Resp: 834
Ion Ratio Lower Upper
64 100
66 2.6 26.6 39.8#



#8
Diethyl Ether
Concen: 0.436 ug/l
RT: 2.17 min Scan# 178
Delta R.T. -0.00 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

Tgt Ion: 74 Resp: 1553
Ion Ratio Lower Upper
74 100
45 66.6 50.7 152.3

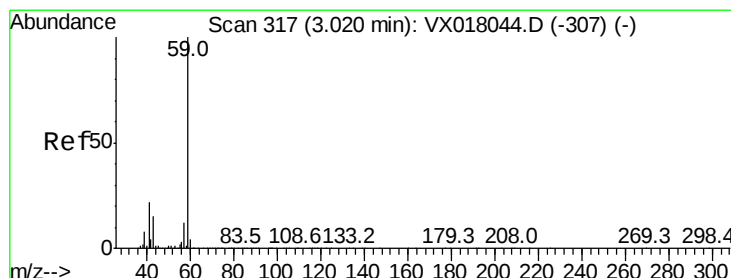
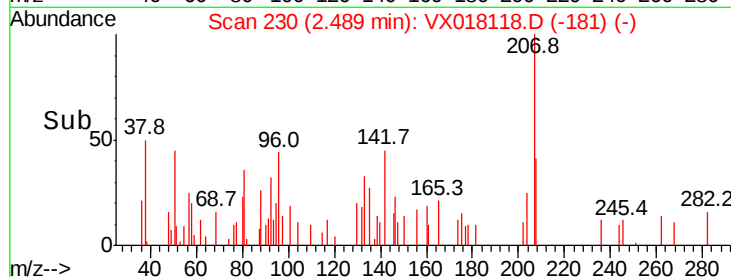
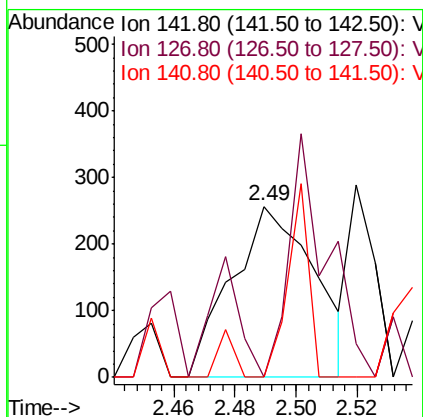
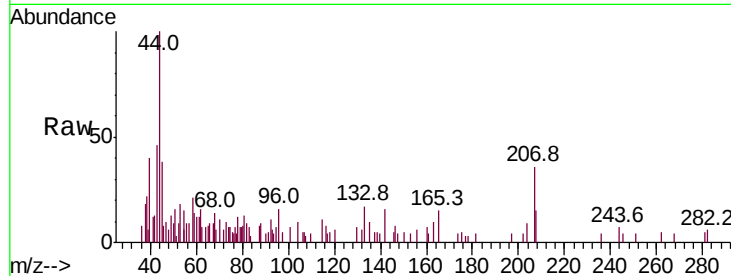




#10
Methvl Iodide
Concen: 5.358 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

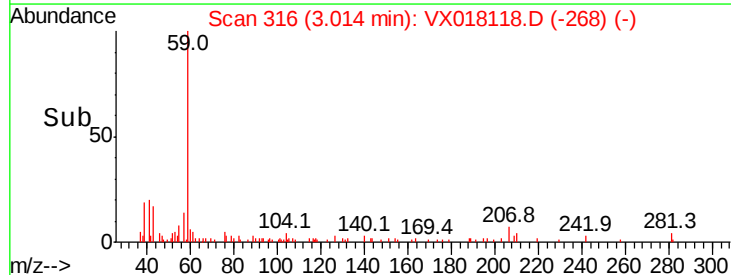
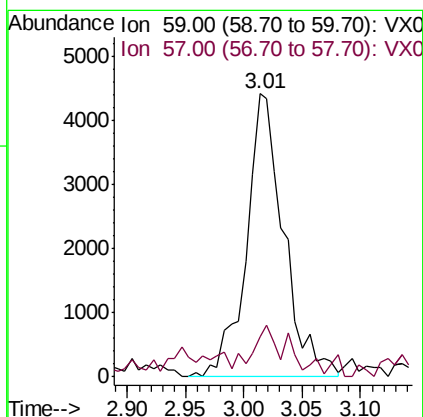
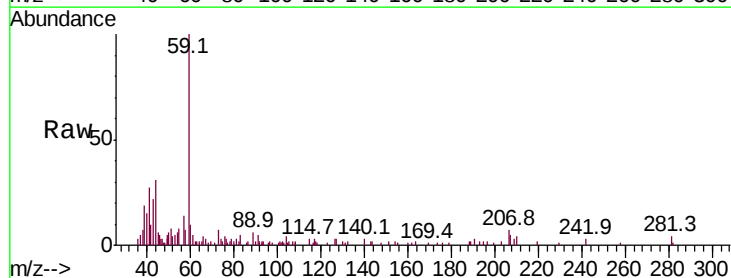
Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

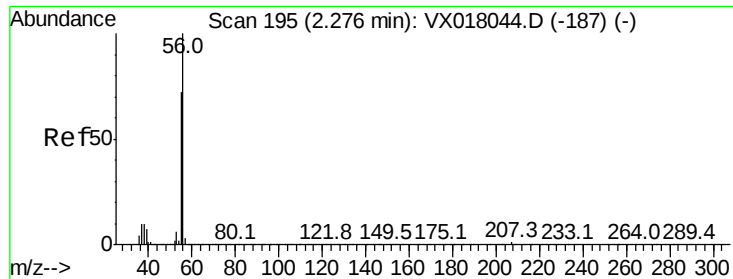
Tot Ion:142 Resp: 483
Ion Ratio Lower Upper
142 100
127 65.4 37.0 55.6#
141 28.2 11.5 17.3#



#11
Tert butyl alcohol
Concen: 6.080 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

Tgt Ion: 59 Resp: 9897
Ion Ratio Lower Upper
59 100
57 8.6 8.9 13.3#

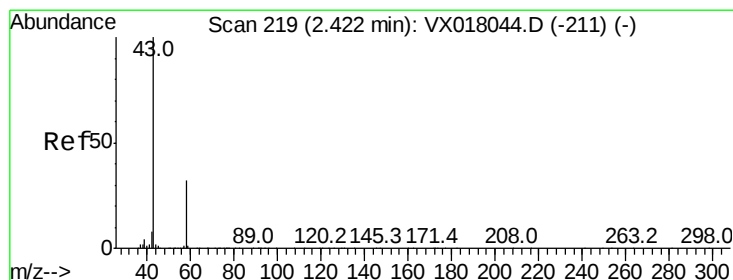
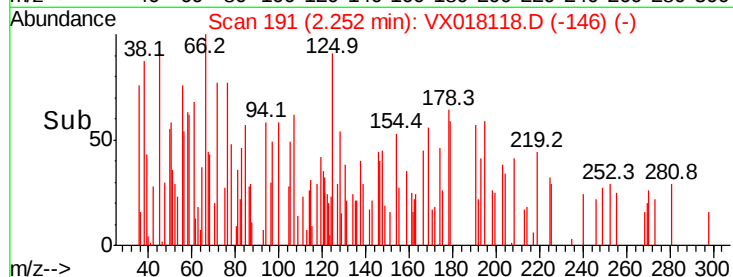
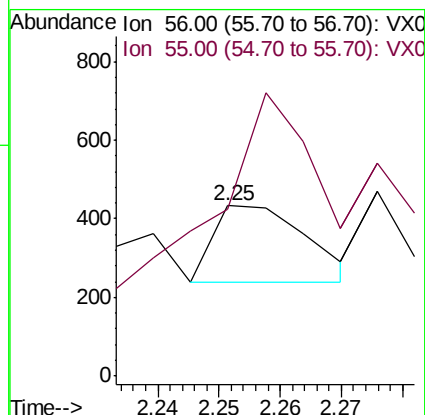
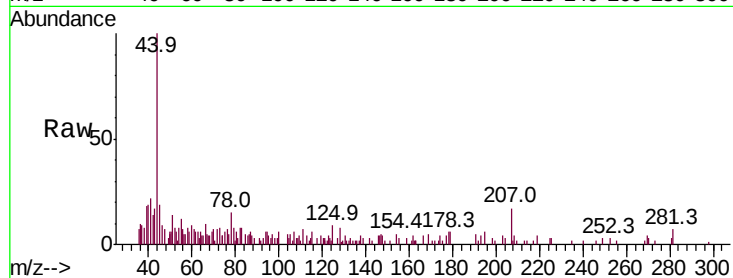




#13
Acrolein
Concen: 0.302 ug/l
RT: 2.25 min Scan# 191
Delta R.T. -0.02 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

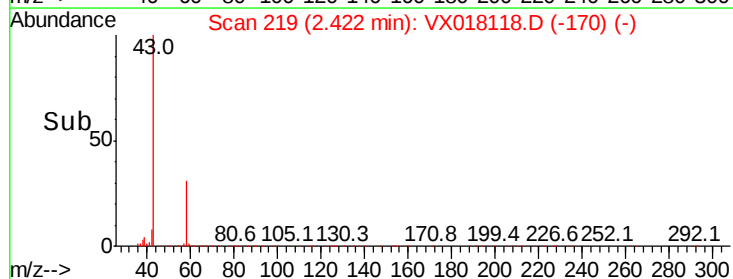
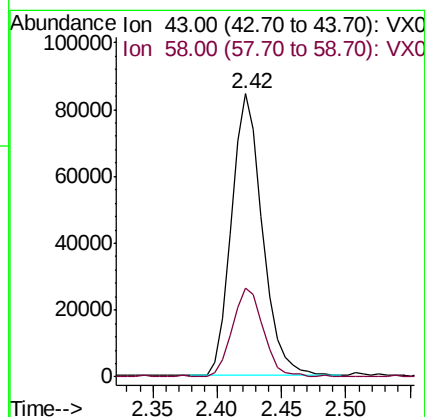
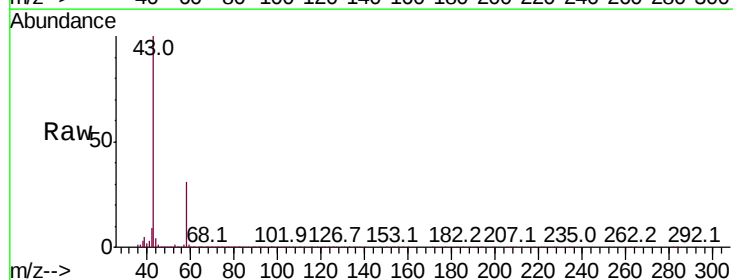
Instrument :
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ClientSampleId :
789UMR-DSP01-02

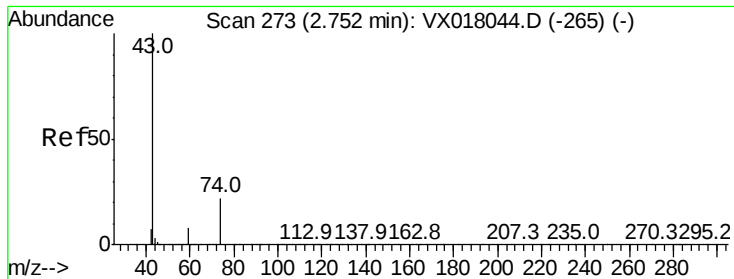
Tot Ion: 56 Resp: 204
Ion Ratio Lower Upper
56 100
55 175.5 57.0 85.6#



#16
Acetone
Concen: 43.417 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

Tgt Ion: 43 Resp: 141638
Ion Ratio Lower Upper
43 100
58 31.4 25.5 38.3

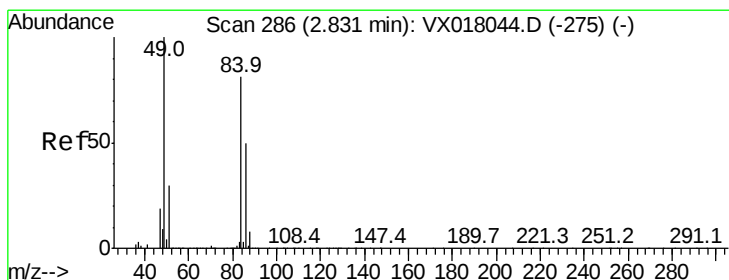
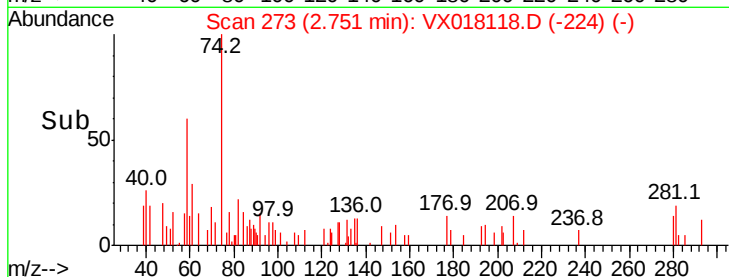
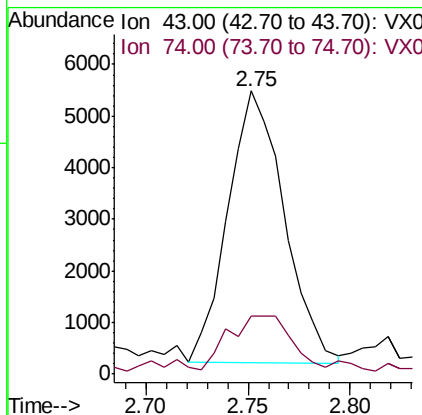
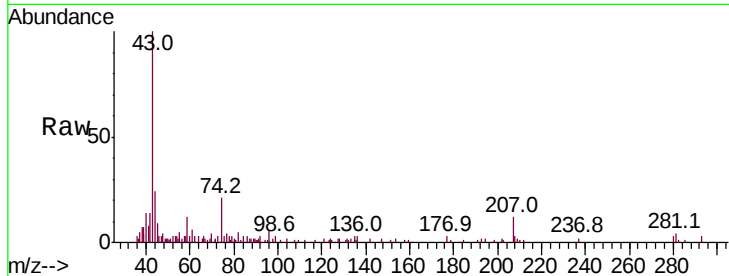




#18
Methyl Acetate
Concen: 1.278 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

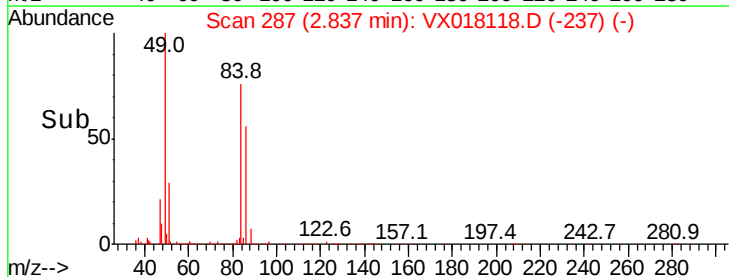
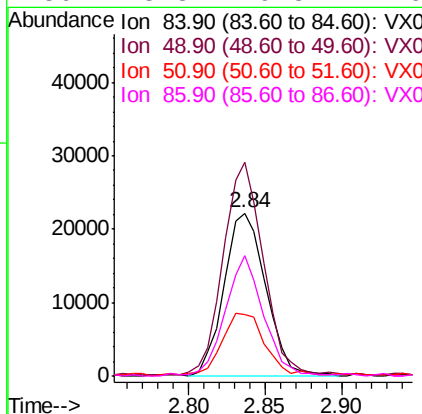
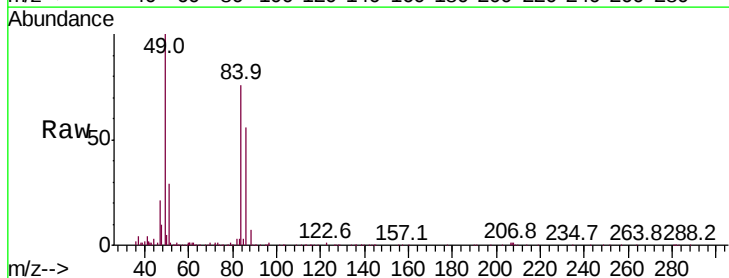
Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

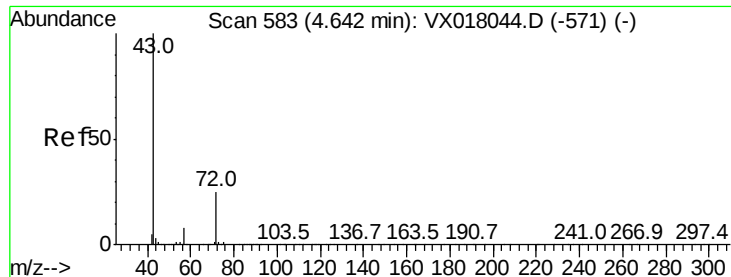
Tot Ion: 43 Resp: 10063
Ion Ratio Lower Upper
43 100
74 24.0 18.2 27.4



#20
Methylene Chloride
Concen: 5.277 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018118.D
Acq: 28 Aug 2020 14:21

Tgt Ion: 84 Resp: 42164
Ion Ratio Lower Upper
84 100
49 129.7 98.6 148.0
51 36.7 29.6 44.4
86 73.3 49.8 74.6





#25

2-Butanone

Concen: 8.609 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

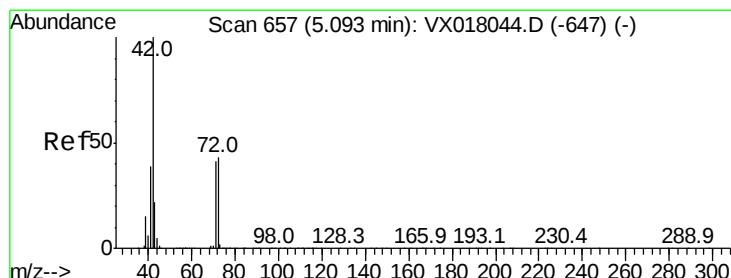
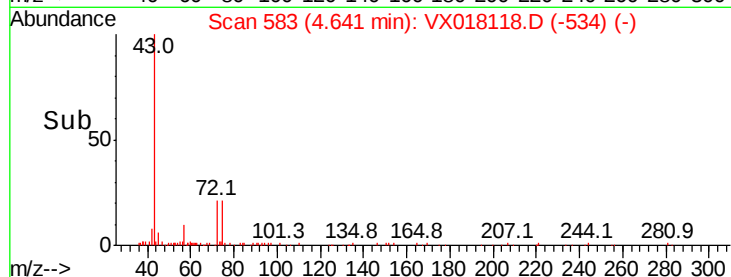
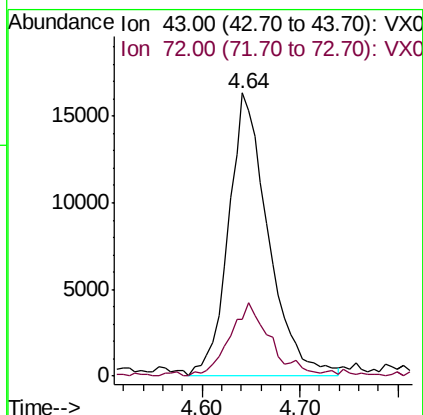
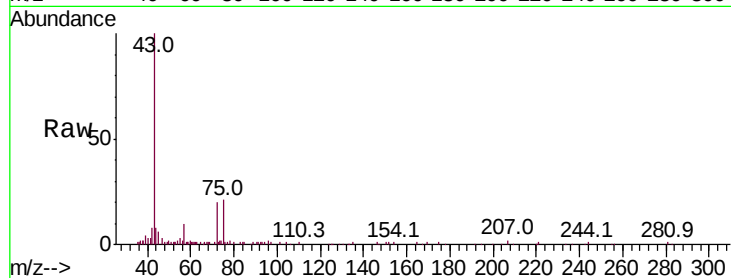
789UMR-DSP01-02

Tot Ion: 43 Resp: 46155

Ion Ratio Lower Upper

43 100

72 20.1 19.8 29.6



#29

Tetrahydrofuran

Concen: 0.633 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

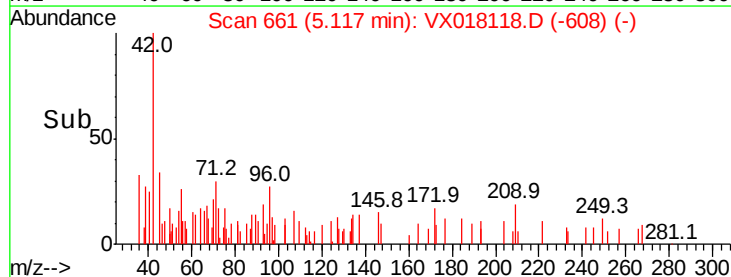
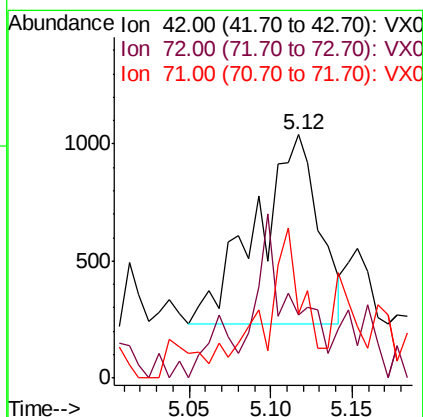
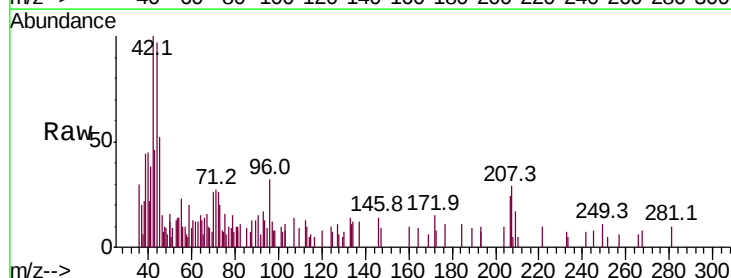
Tgt Ion: 42 Resp: 2160

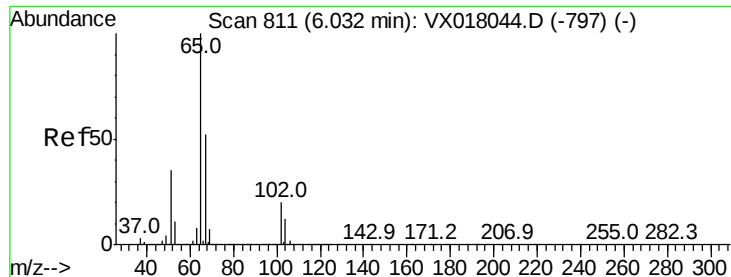
Ion Ratio Lower Upper

42 100

72 38.0 34.2 51.4

71 43.9 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 49.961 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

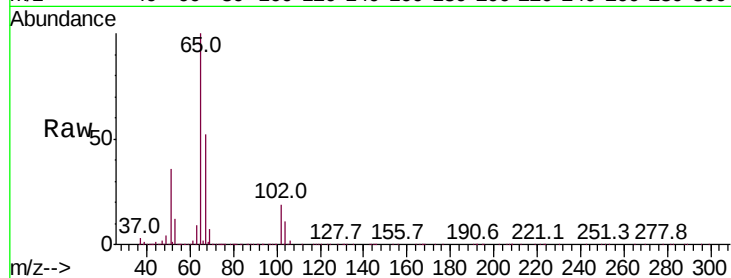
789UMR-DSP01-02

Tot Ion: 65 Resp: 418272

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

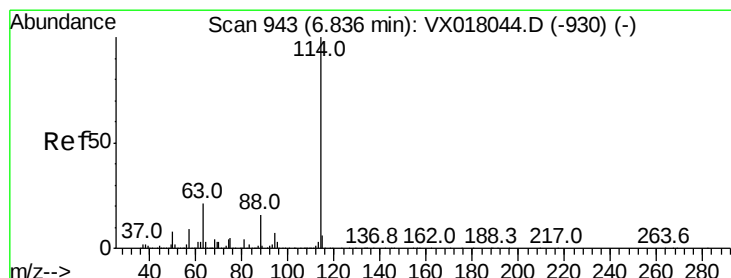
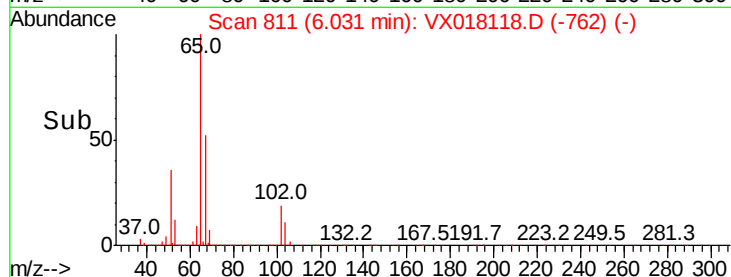
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

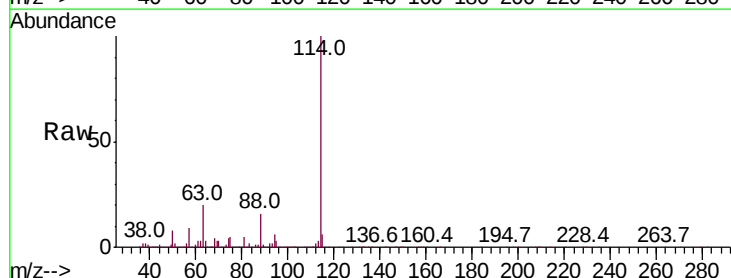
Tgt Ion: 114 Resp: 1012565

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.6 0.0 31.8



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

600000

500000

400000

300000

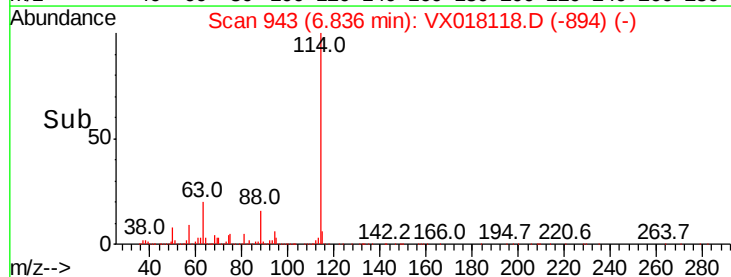
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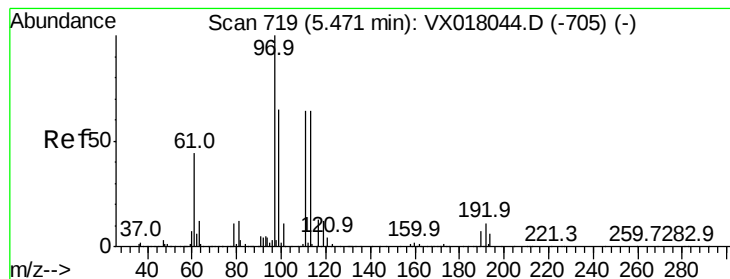
100000

0

Time-->

6.70 6.80 6.90





#35

Dibromofluoromethane

Concen: 48.539 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

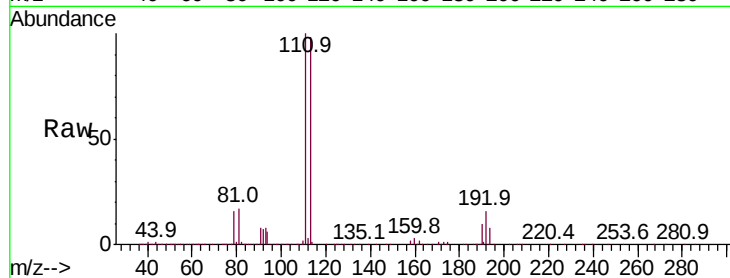
Tot Ion:113 Resp: 334729

Ion Ratio Lower Upper

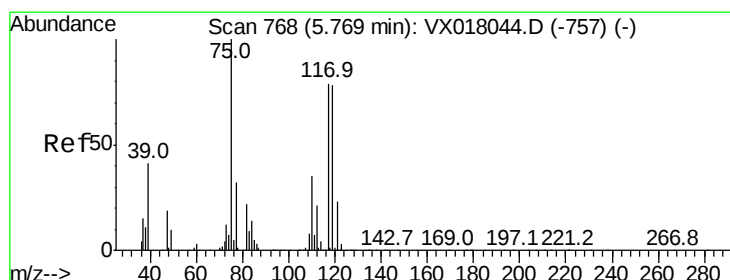
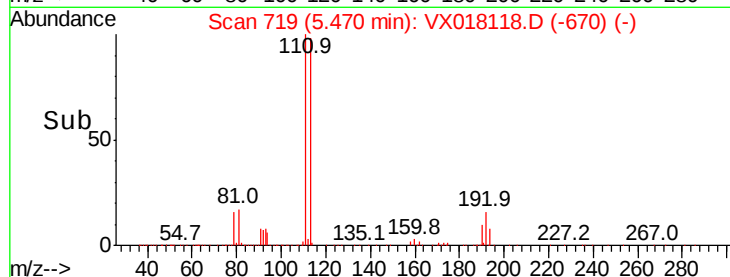
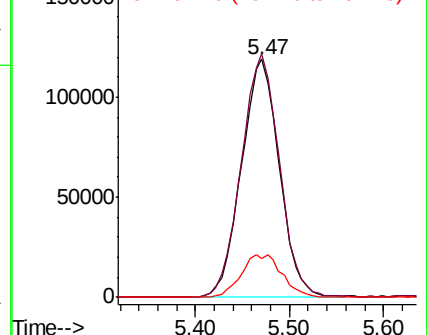
113 100

111 103.1 81.6 122.4

192 19.3 15.8 23.8



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: 5.054 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

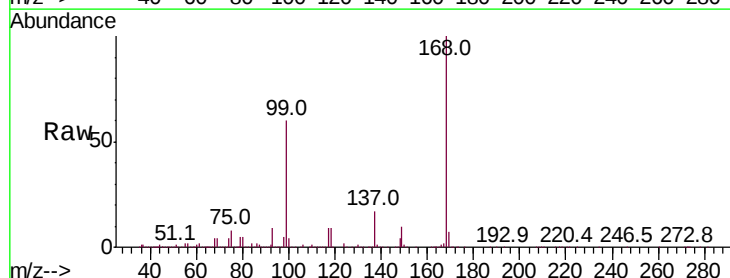
Tgt Ion: 75 Resp: 47201

Ion Ratio Lower Upper

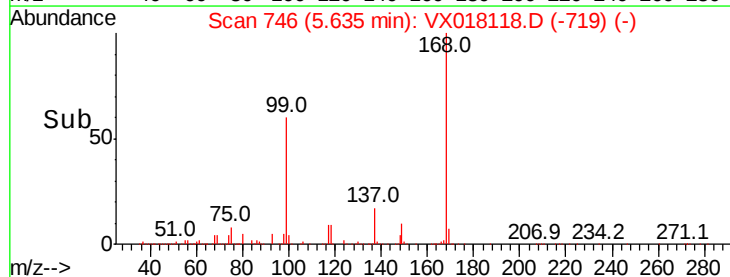
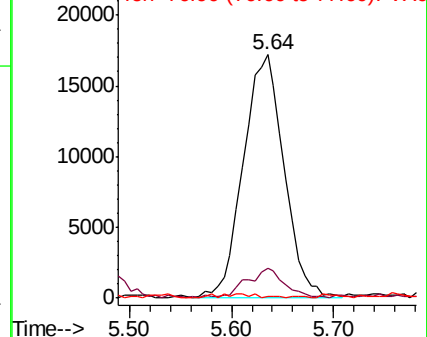
75 100

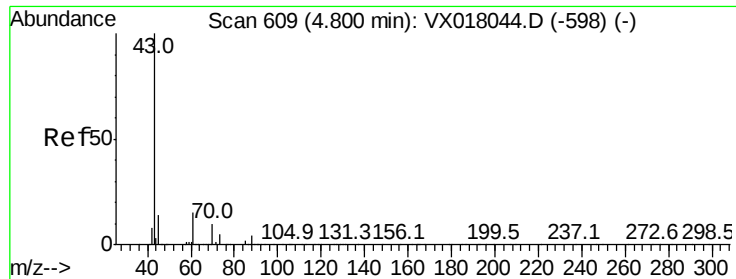
110 11.3 18.0 54.0#

77 0.2 24.4 36.6#



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





#37

Ethyl Acetate

Concen: 4.255 ug/l

RT: 4.64 min Scan# 583

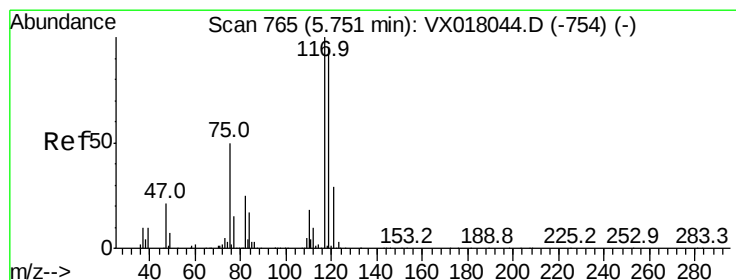
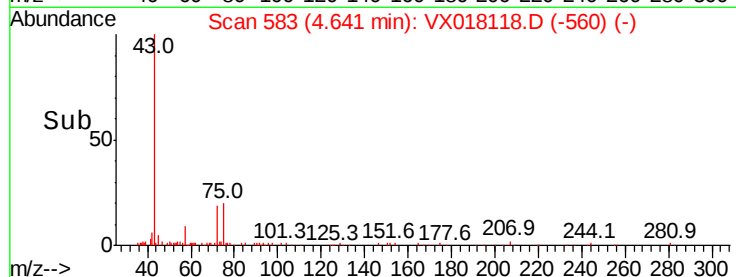
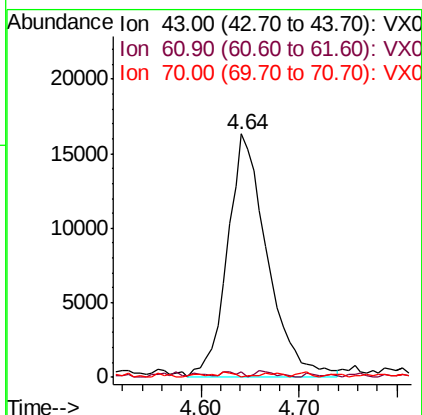
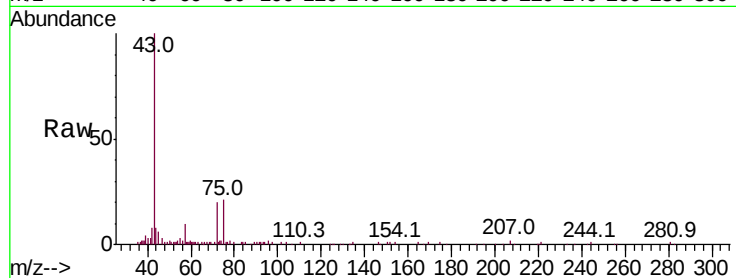
Delta R.T. -0.16 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

Tot Ion	Ratio	Lower	Upper
43	100		
61	1.1	11.3	16.9#
70	1.0	8.2	12.4#



#38

Carbon Tetrachloride

Concen: 5.910 ug/l

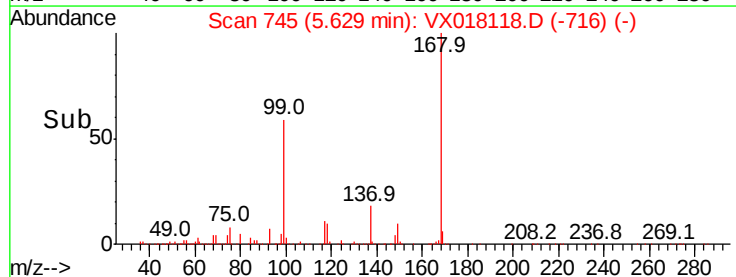
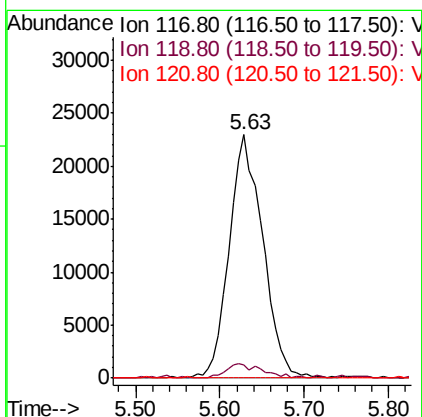
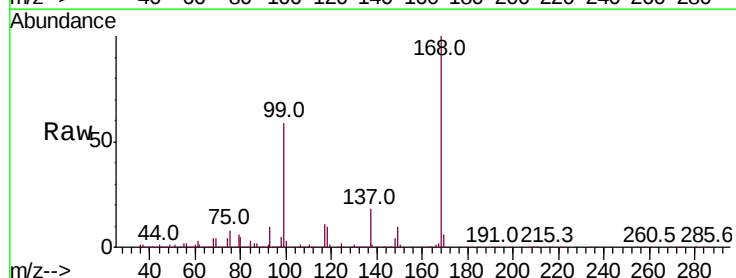
RT: 5.63 min Scan# 745

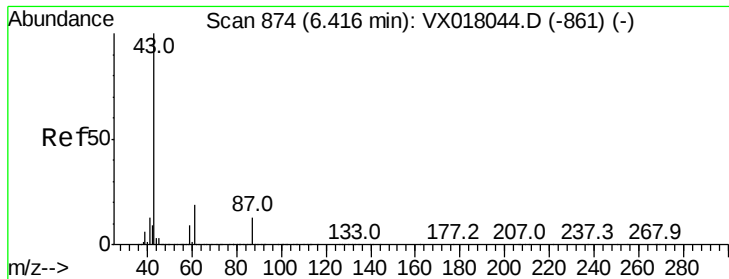
Delta R.T. -0.12 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	75.8	113.6#
121	0.0	23.4	35.0#





#43

Isopropyl Acetate

Concen: 2.335 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

789UMR-DSP01-02

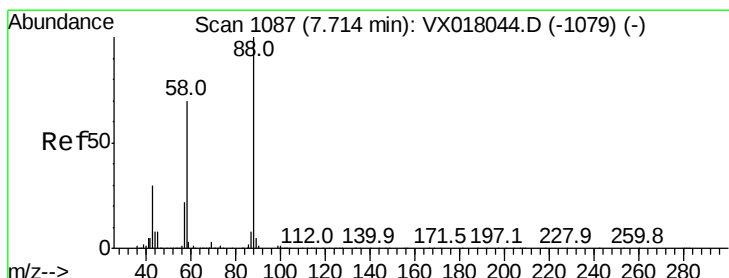
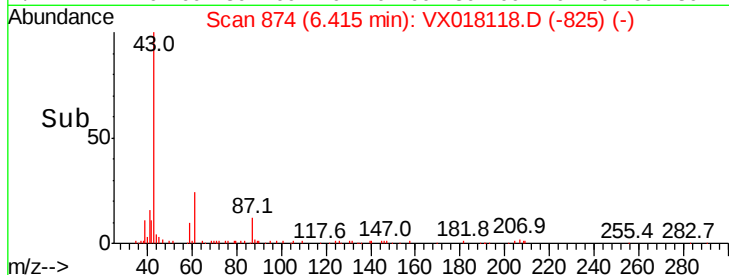
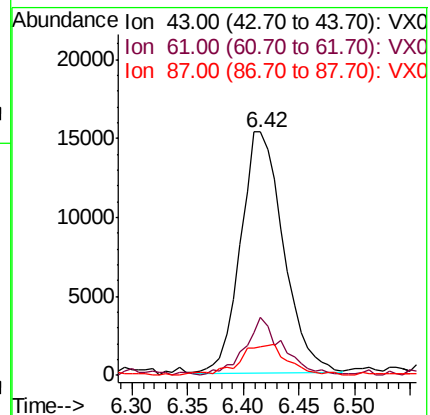
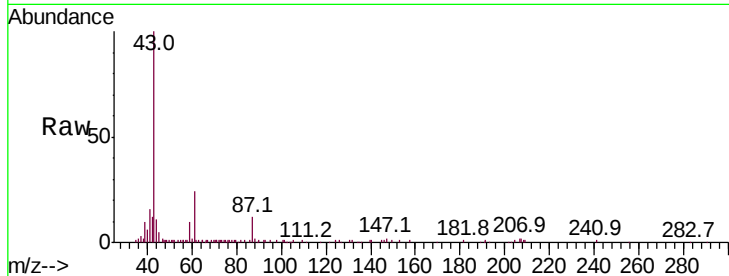
Tot Ion: 43 Resp: 40917

Ion Ratio Lower Upper

43 100

61 21.5 15.7 23.5

87 14.3 10.3 15.5



#49

1,4-Dioxane

Concen: 0.658 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

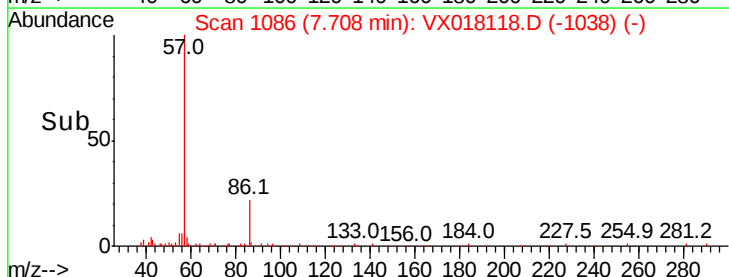
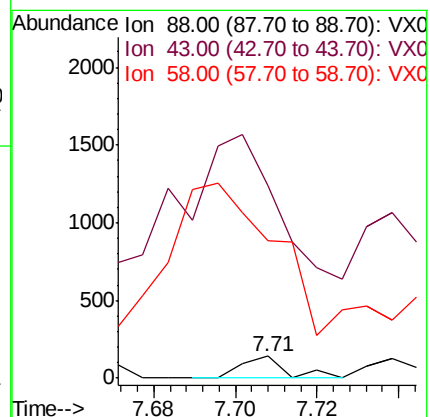
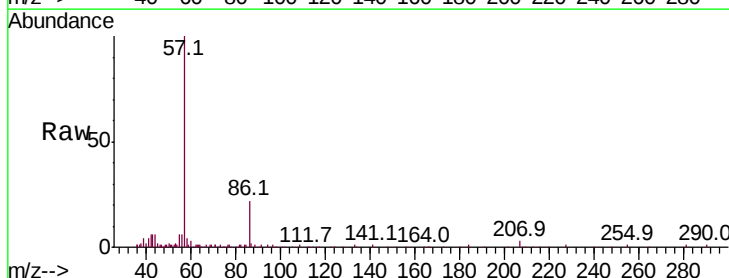
Tgt Ion: 88 Resp: 104

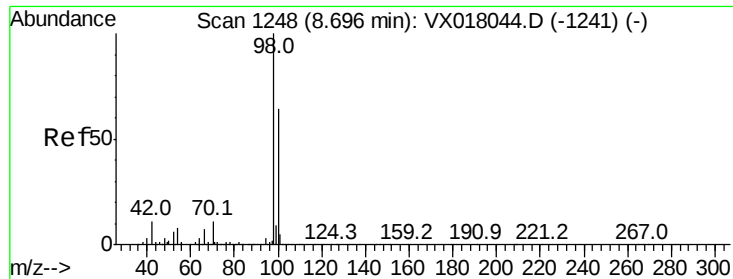
Ion Ratio Lower Upper

88 100

43 1452.9 27.4 41.0#

58 2232.7 56.4 84.6#





#50

Toluene-d8

Concen: 48.728 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

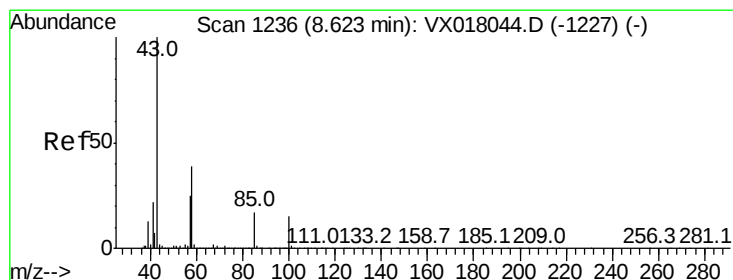
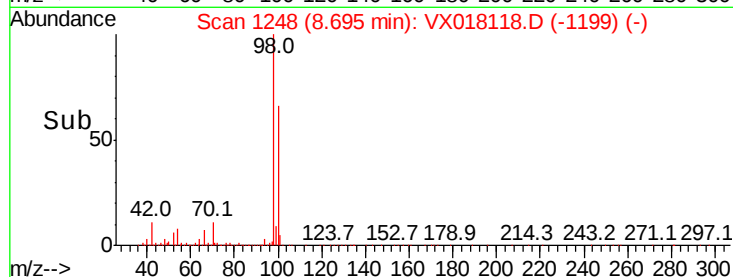
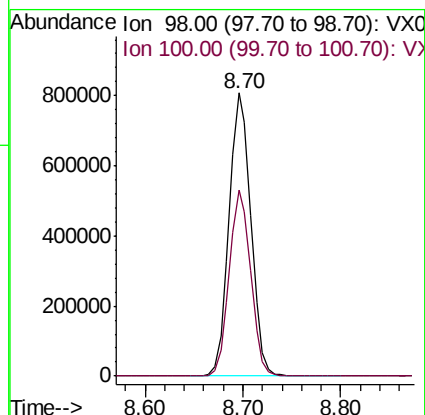
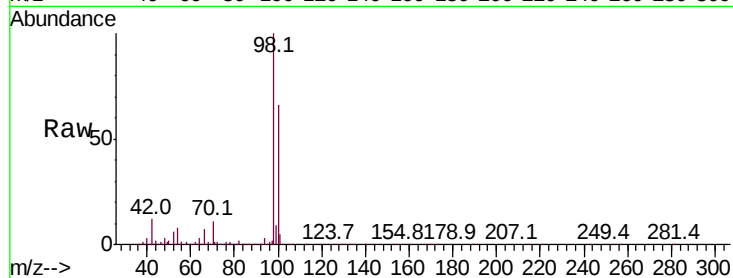
789UMR-DSP01-02

Tot Ion: 98 Resp: 1251572

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 5.107 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018118.D

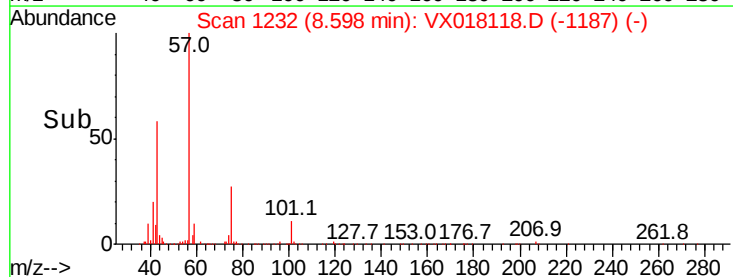
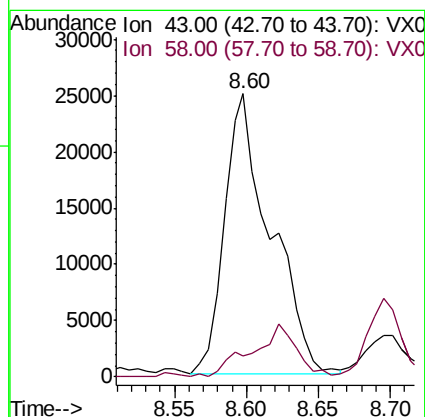
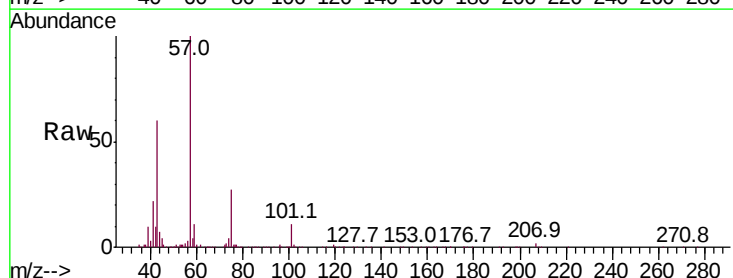
Acq: 28 Aug 2020 14:21

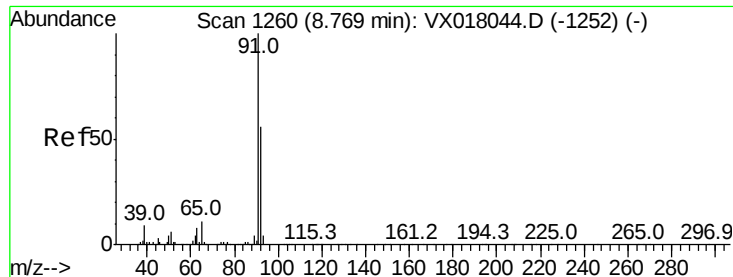
Tgt Ion: 43 Resp: 55266

Ion Ratio Lower Upper

43 100

58 0.0 30.7 46.1#





#52

Toluene

Concen: 0.216 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

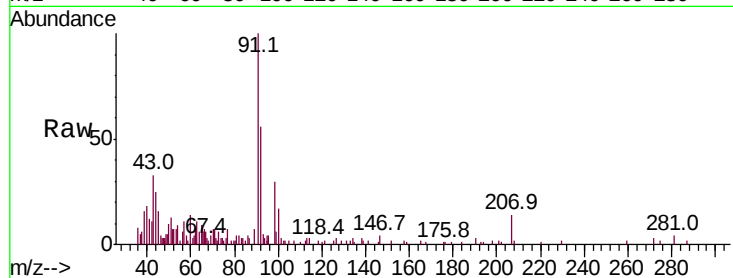
789UMR-DSP01-02

Tot Ion: 92 Resp: 3758

Ion Ratio Lower Upper

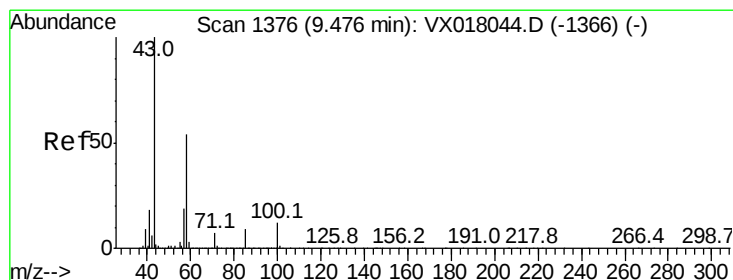
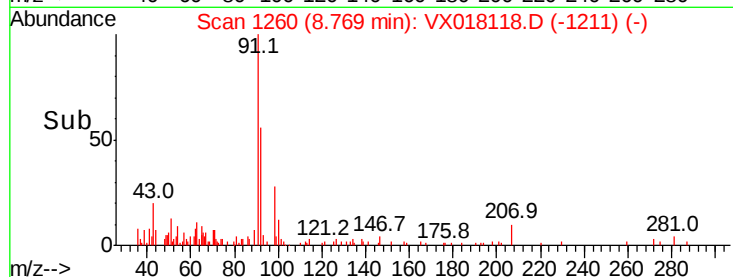
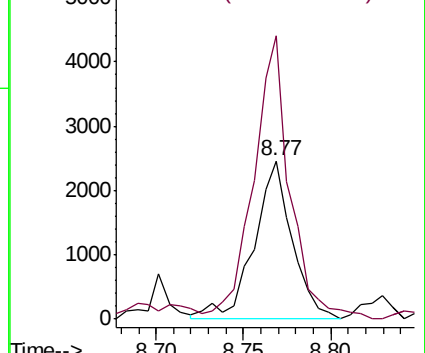
92 100

91 170.1 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 2.015 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX018118.D

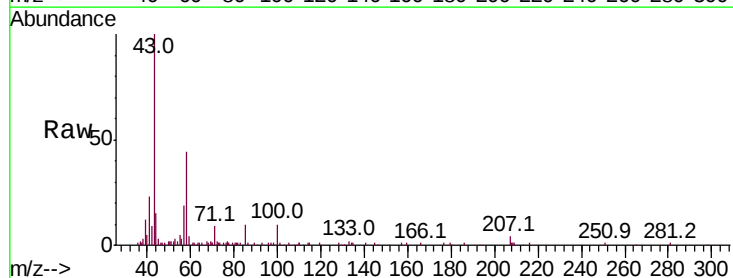
Acq: 28 Aug 2020 14:21

Tgt Ion: 43 Resp: 16582

Ion Ratio Lower Upper

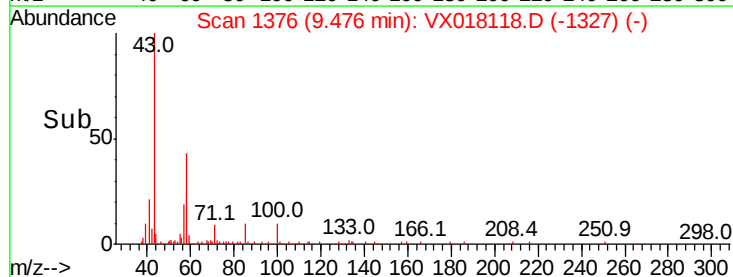
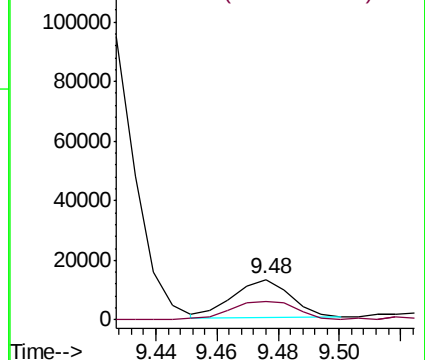
43 100

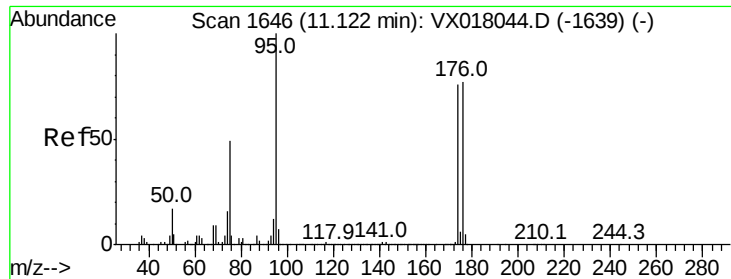
58 58.7 26.6 79.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.320 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :
MSVOA_X
ClientSampleId :
789UMR-DSP01-02

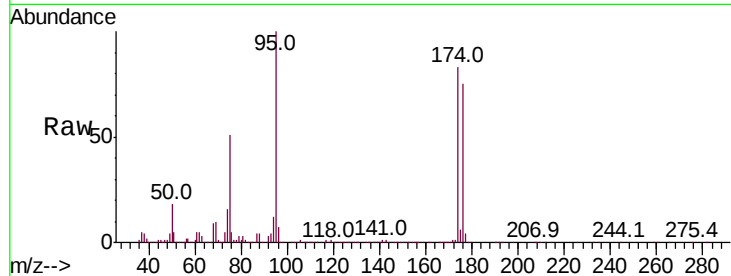
Tot Ion: 95 Resp: 468085

Ion Ratio Lower Upper

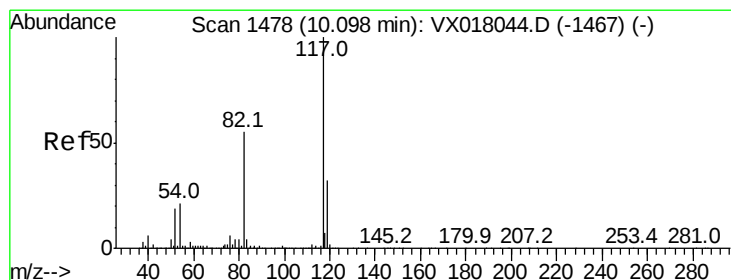
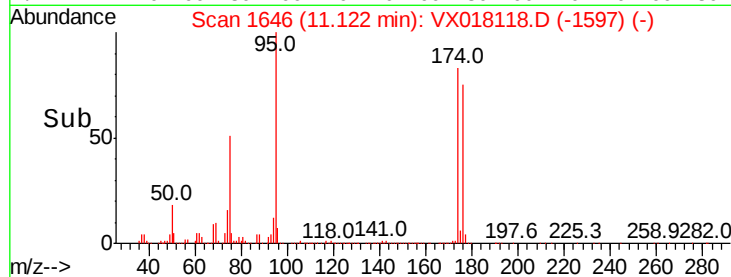
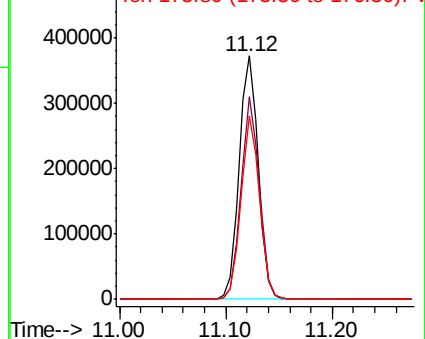
95 100

174 80.3 0.0 160.2

176 73.3 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: VX018118.D

Acq: 28 Aug 2020 14:21

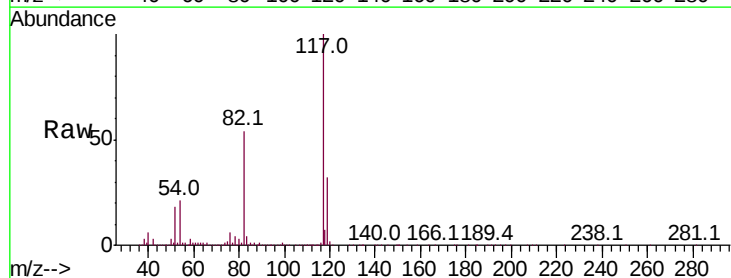
Tgt Ion: 117 Resp: 975329

Ion Ratio Lower Upper

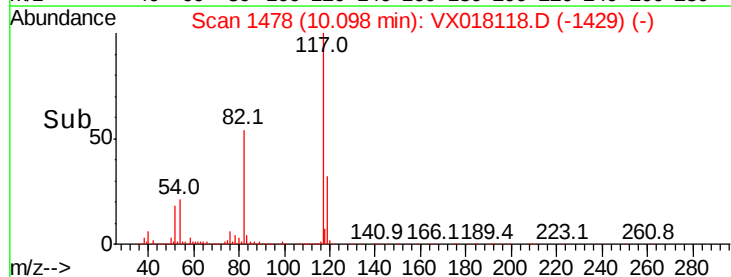
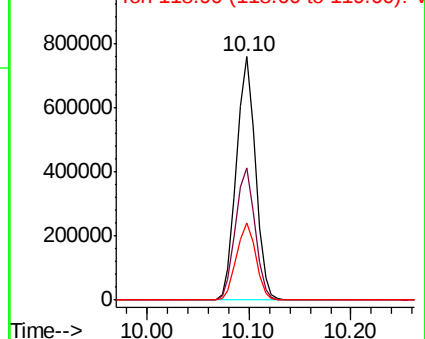
117 100

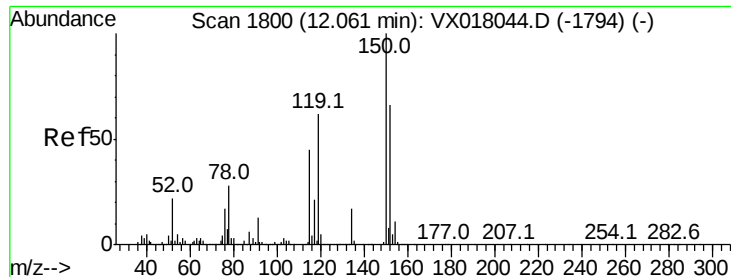
82 54.1 44.2 66.2

119 31.8 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: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

789UMR-DSP01-02

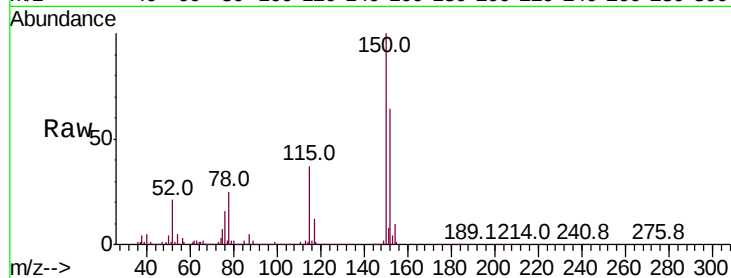
Tot Ion:152 Resp: 453984

Ion Ratio Lower Upper

152 100

115 58.1 41.5 124.5

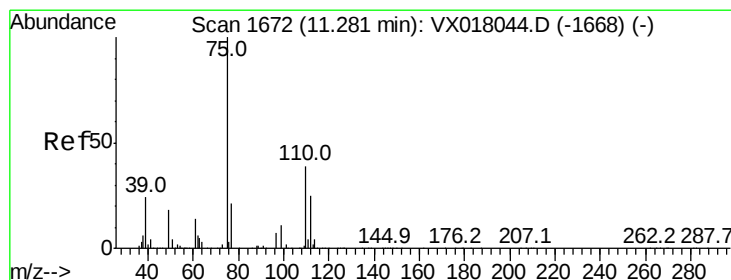
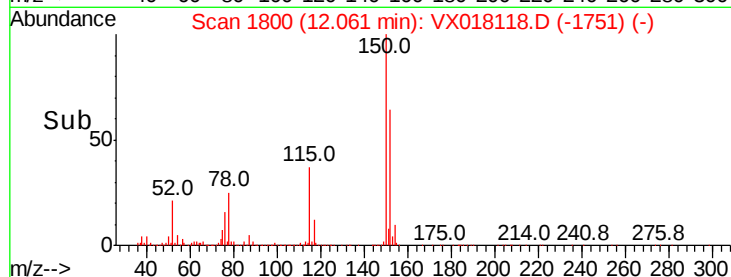
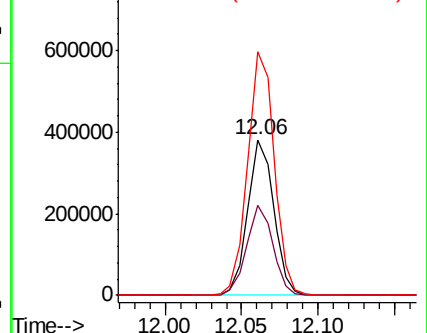
150 159.1 0.0 343.8



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



#76

1,2,3-Trichloropropane

Concen: 23.251 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018118.D

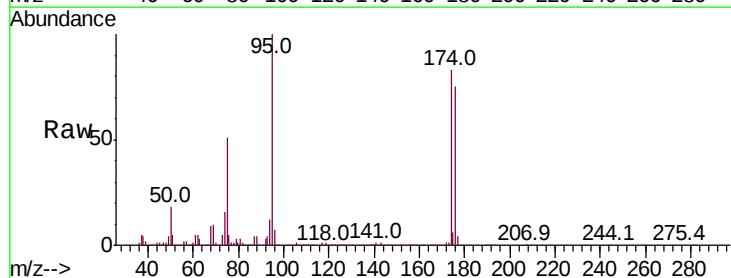
Acq: 28 Aug 2020 14:21

Tgt Ion: 75 Resp: 234813

Ion Ratio Lower Upper

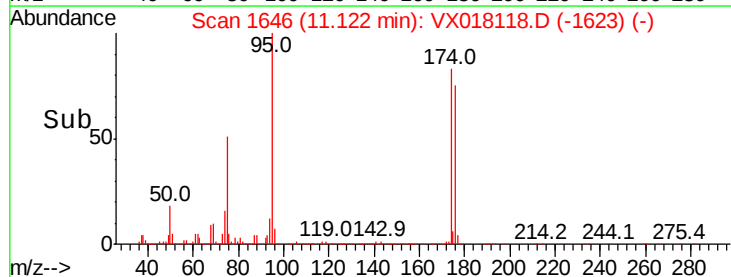
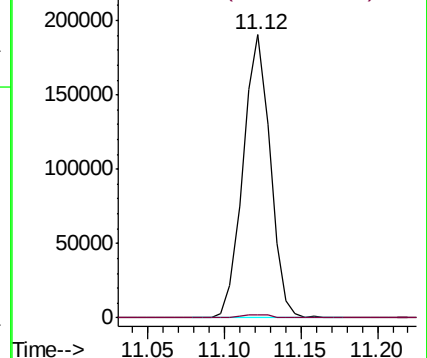
75 100

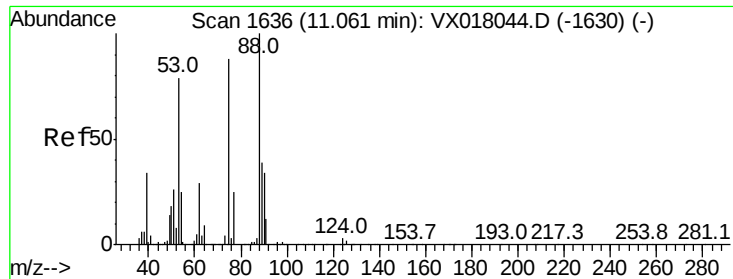
77 1.3 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.797 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018118.D

Acq: 28 Aug 2020 14:21

Instrument :

MSVOA_X

ClientSampleId :

789UMR-DSP01-02

Tot Ion: 75 Resp: 234813

Ion Ratio Lower Upper

75 100

53 0.1 74.7 112.1#

89 0.1 36.6 54.8#

