

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082620\
 Data File : VX018085.D
 Acq On : 26 Aug 2020 18:14
 Operator : JC/SP
 Sample : L3784-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-23

Quant Time: Aug 27 04:06:37 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	5.63	168	447882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	731905	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	715878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	346027	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	324108	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
35) Dibromofluoromethane	5.47	113	253036	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
50) Toluene-d8	8.70	98	927379	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.12	95	340647	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	

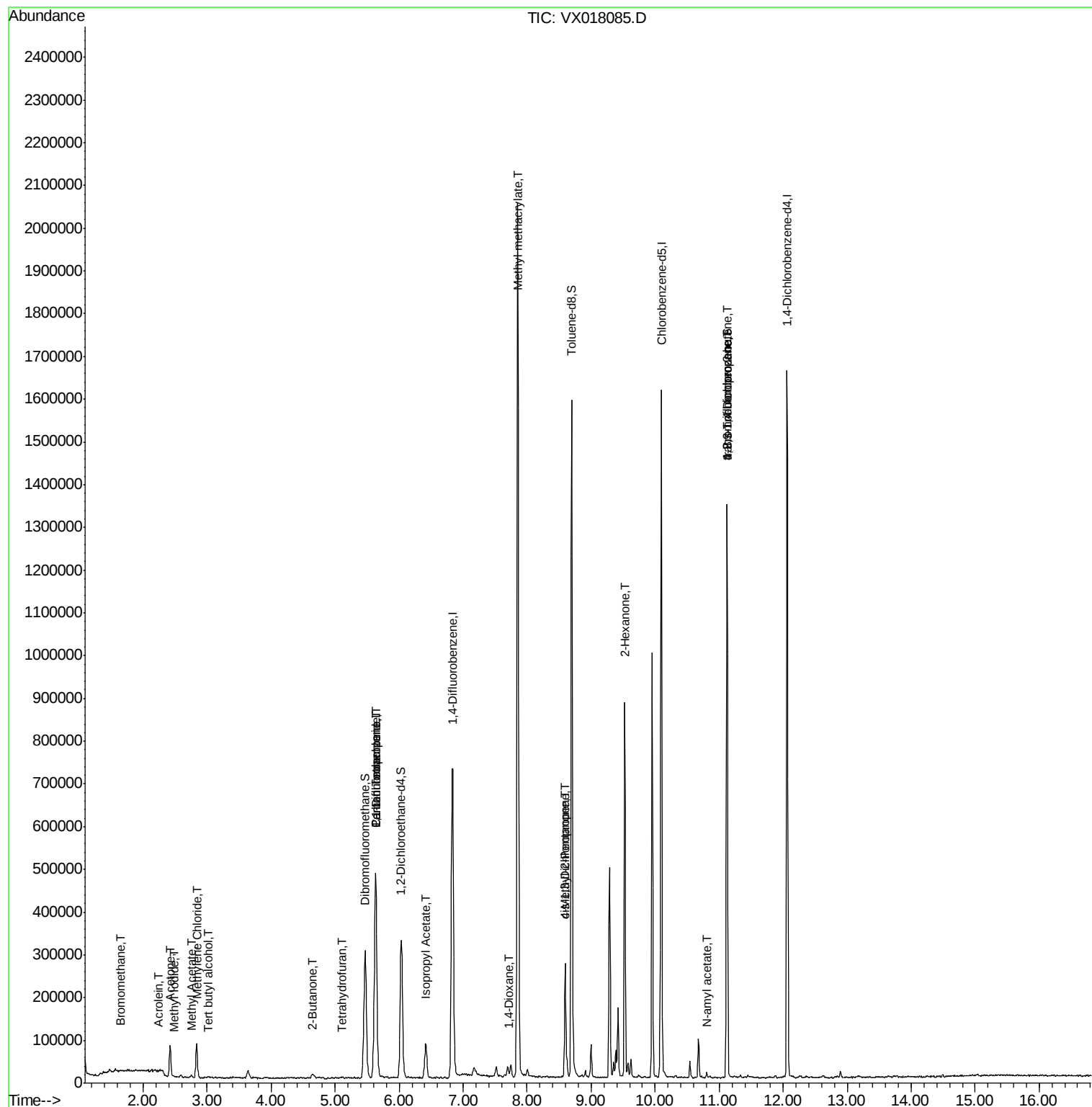
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	689	0.250	ug/l #	61
10) Methyl Iodide	2.49	142	255	5.337	ug/l #	83
11) Tert butyl alcohol	3.02	59	3588	2.968	ug/l	99
13) Acrolein	2.24	56	583	1.163	ug/l #	79
16) Acetone	2.42	43	77156	31.846	ug/l	95
18) Methyl Acetate	2.75	43	7396	1.265	ug/l	97
20) Methylene Chloride	2.84	84	36562	6.361	ug/l	93
25) 2-Butanone	4.65	43	11903	2.989	ug/l #	85
29) Tetrahydrofuran	5.10	42	1409	0.556	ug/l #	90
36) 1,1-Dichloropropene	5.63	75	34985	5.182	ug/l #	52
38) Carbon Tetrachloride	5.63	117	47638	6.262	ug/l #	18
43) Isopropyl Acetate	6.42	43	110364	8.715	ug/l	97
48) Methyl methacrylate	7.85	41	176278	27.962	ug/l #	44
49) 1,4-Dioxane	7.72	88	206	1.804	ug/l #	23
51) 4-Methyl-2-Pentanone	8.59	43	104822	13.400	ug/l #	49
54) cis-1,3-Dichloropropene	8.59	75	43319	4.915	ug/l #	62
59) 2-Hexanone	9.52	43	94653	15.913	ug/l #	54
74) N-amyl acetate	10.81	43	5699	0.526	ug/l #	63
76) 1,2,3-Trichloropropane	11.12	75	174289	22.642	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	174289	61.153	ug/l #	13

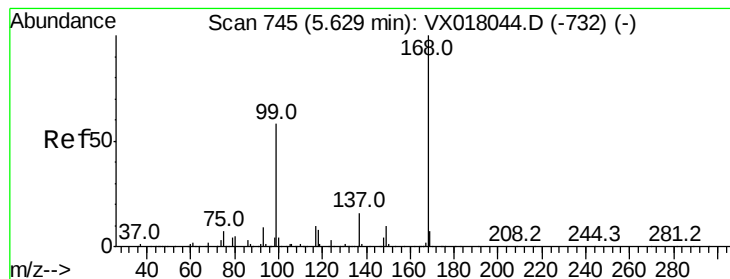
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

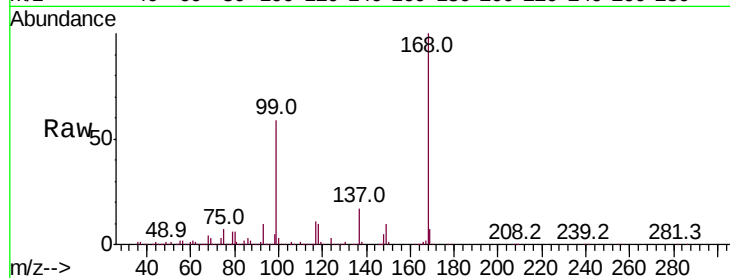
RO-23

Tot Ion:168 Resp: 447882

Ion Ratio Lower Upper

168 100

99 59.0 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

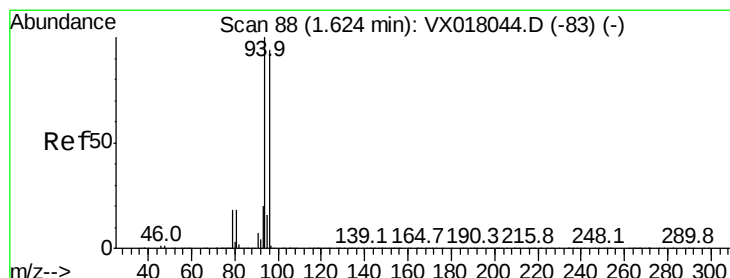
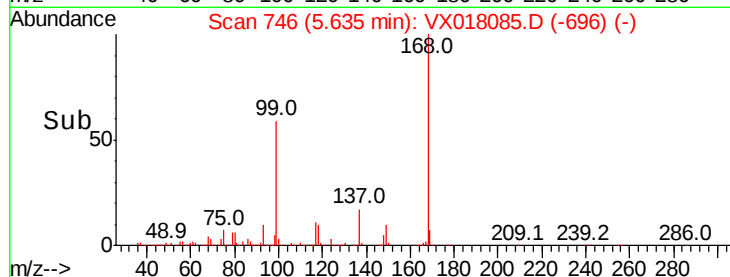
100000

50000

0

Time-->

5.50 5.60 5.70



#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.03 min

Lab File: VX018085.D

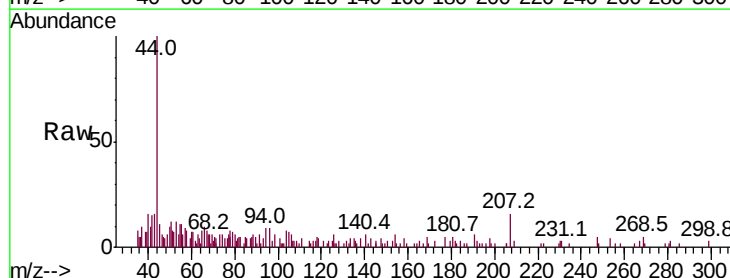
Acq: 26 Aug 2020 18:14

Tgt Ion: 94 Resp: 689

Ion Ratio Lower Upper

94 100

96 56.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

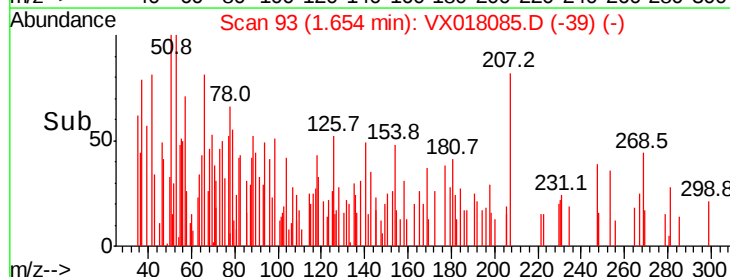
200

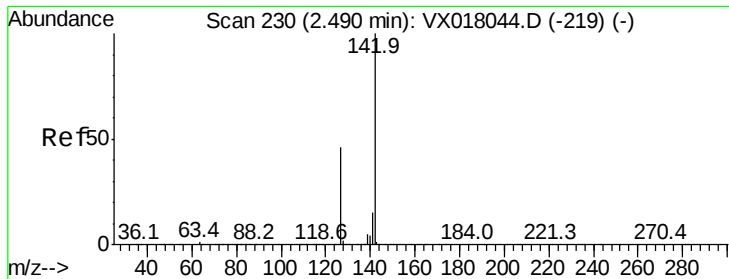
100

0

Time-->

1.60 1.65

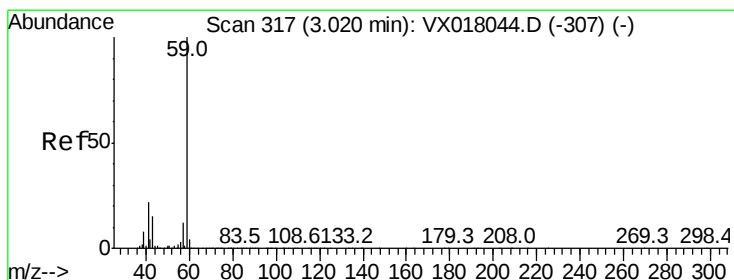
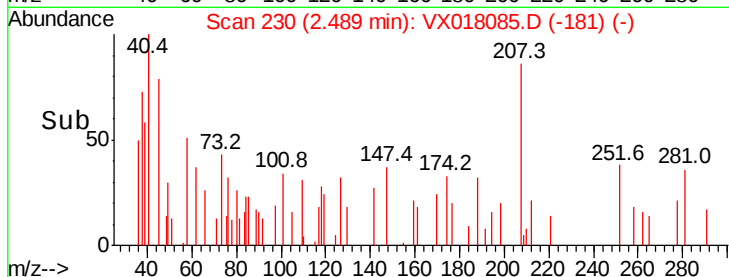
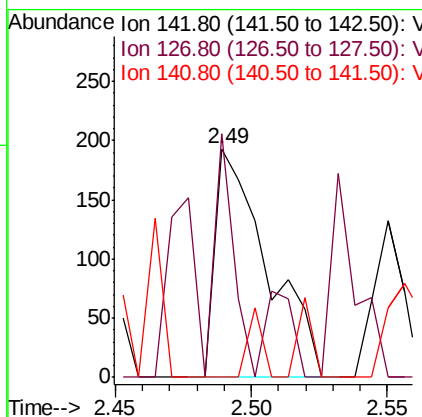
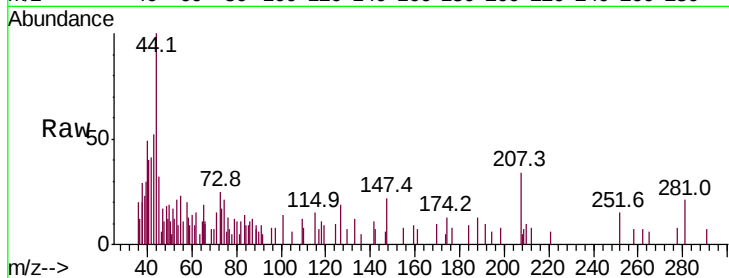




#10
Methvl Iodide
Concen: 5.337 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

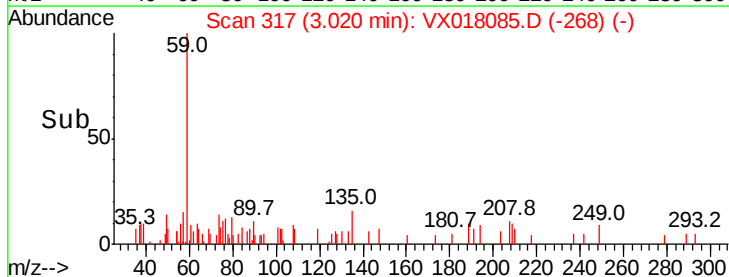
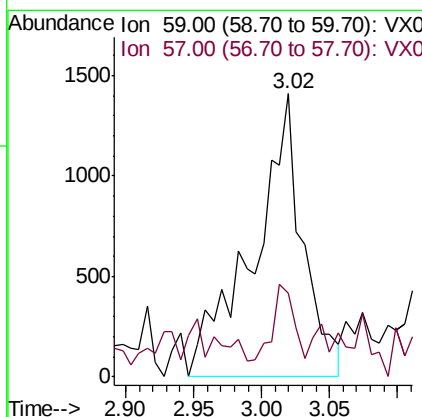
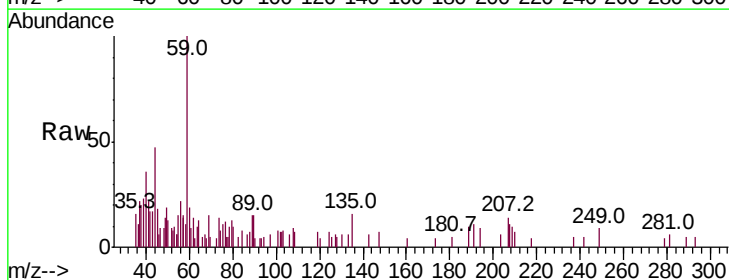
Instrument :
MSVOA_X
ClientSampled :
RO-23

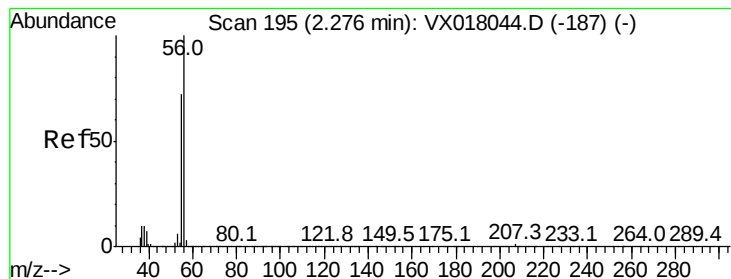
Tot Ion	Ratio	Lower	Upper
142	100		
127	38.8	37.0	55.6
141	0.0	11.5	17.3#



#11
Tert butyl alcohol
Concen: 2.968 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.9	13.3





#13

Acrolein

Concen: 1.163 ug/l

RT: 2.24 min Scan# 189

Delta R.T. -0.04 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

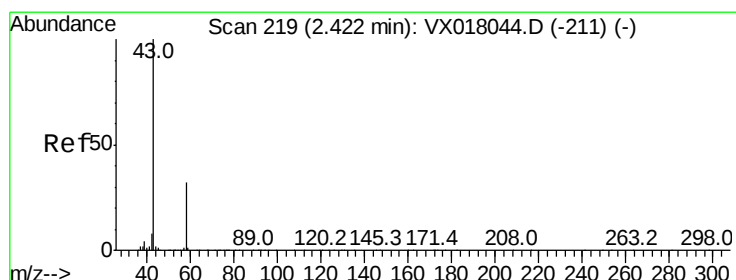
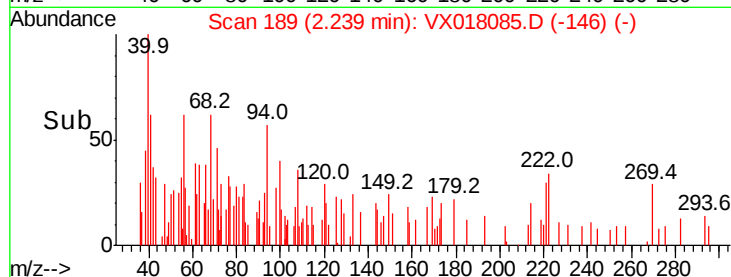
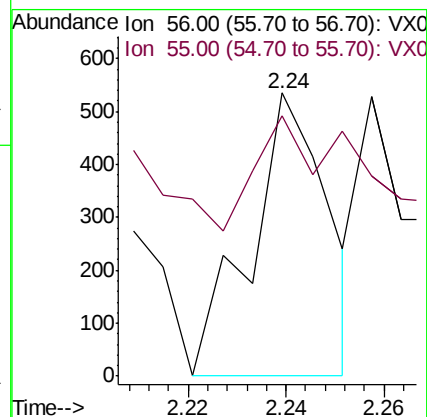
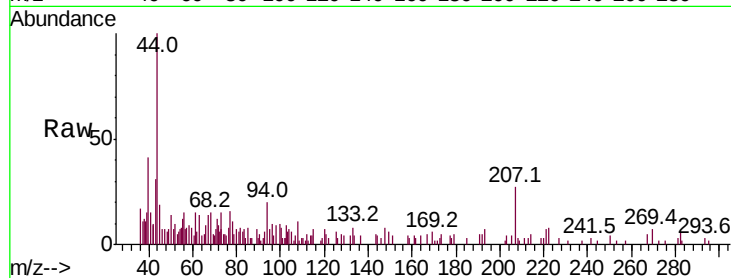
RO-23

Tot Ion: 56 Resp: 583

Ion Ratio Lower Upper

56 100

55 88.9 57.0 85.6#



#16

Acetone

Concen: 31.846 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018085.D

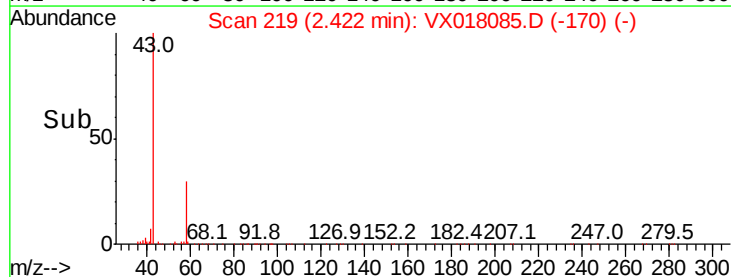
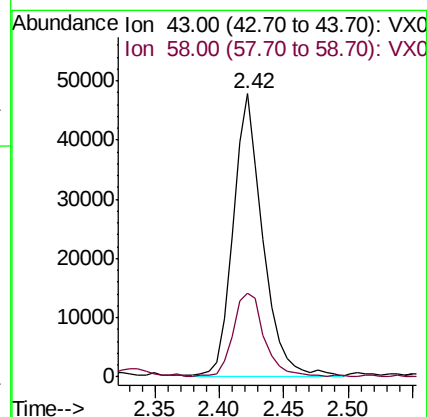
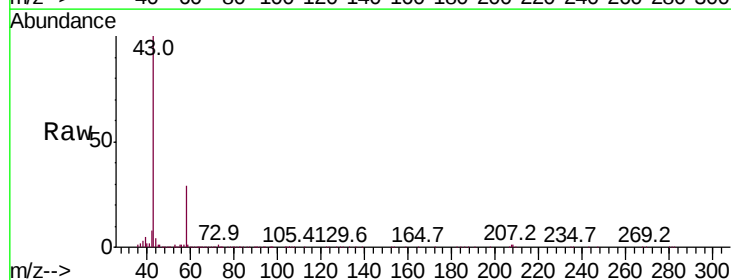
Acq: 26 Aug 2020 18:14

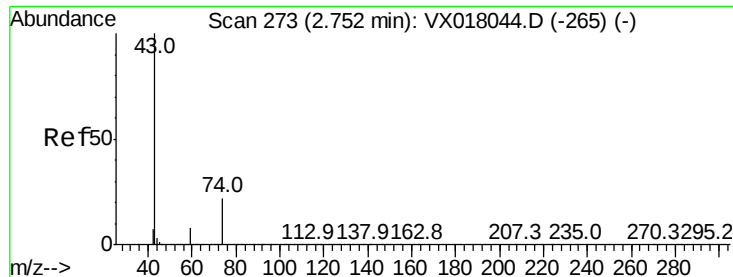
Tgt Ion: 43 Resp: 77156

Ion Ratio Lower Upper

43 100

58 29.1 25.5 38.3

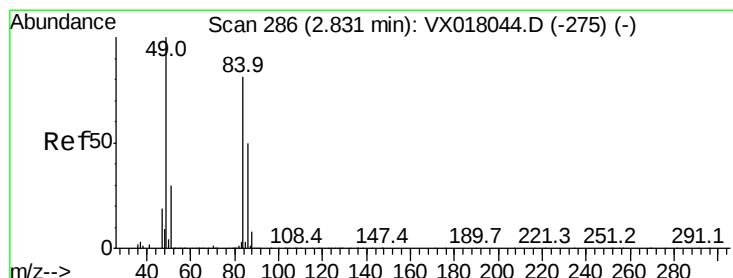
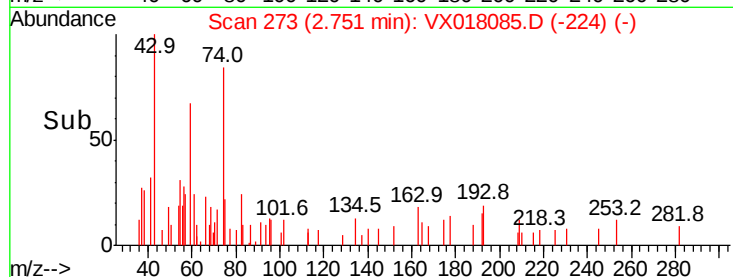
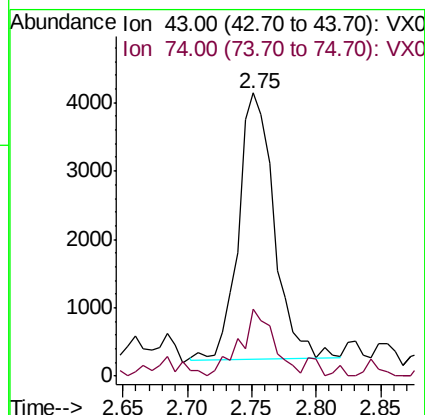
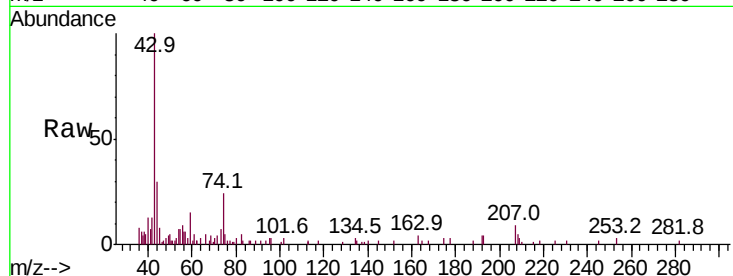




#18
Methvl Acetate
Concen: 1.265 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

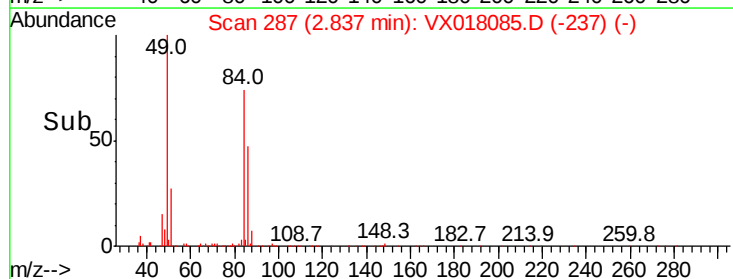
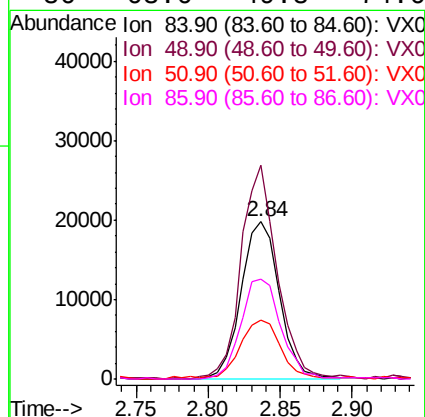
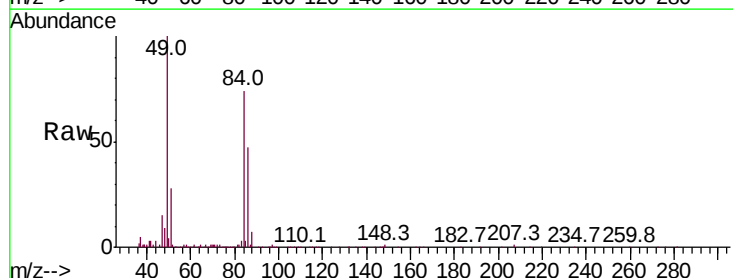
Instrument :
MSVOA_X
ClientSampleId :
RO-23

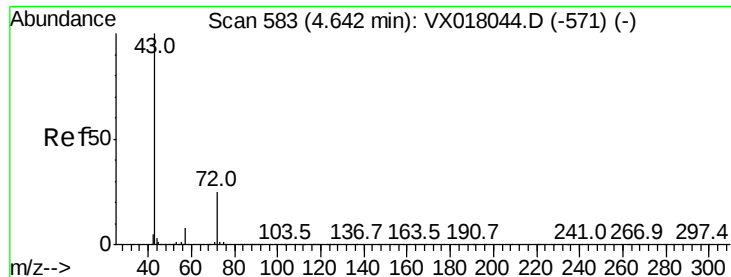
Tot Ion: 43 Resp: 7396
Ion Ratio Lower Upper
43 100
74 24.1 18.2 27.4



#20
Methylene Chloride
Concen: 6.361 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

Tgt Ion: 84 Resp: 36562
Ion Ratio Lower Upper
84 100
49 135.8 98.6 148.0
51 36.7 29.6 44.4
86 63.6 49.8 74.6

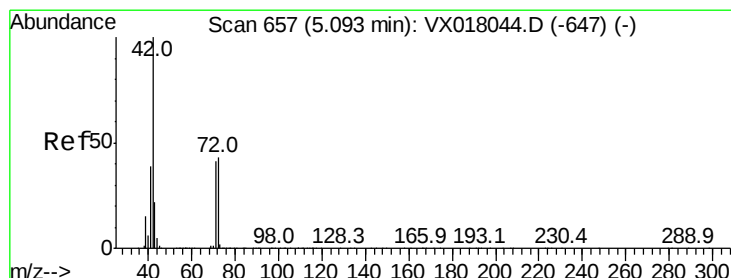
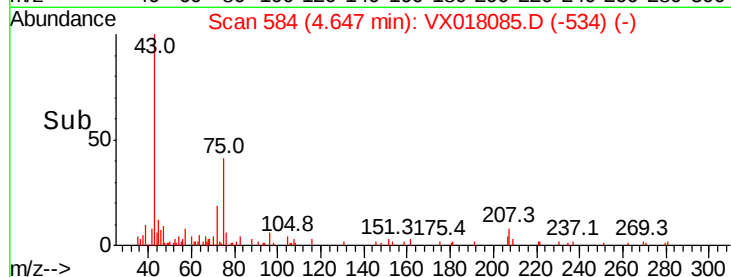
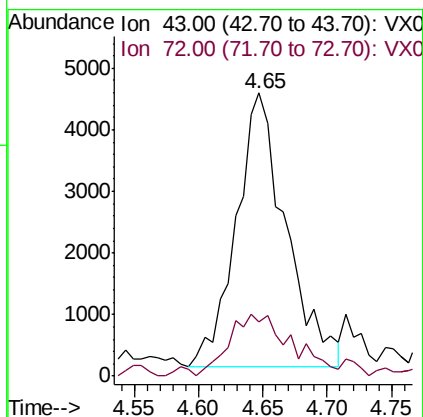
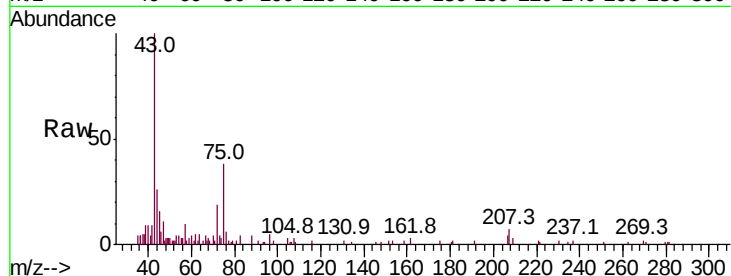




#25
2-Butanone
Concen: 2.989 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

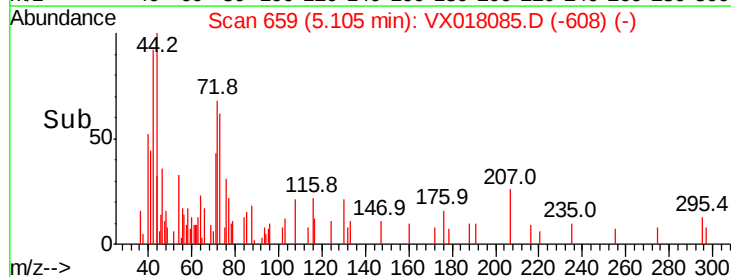
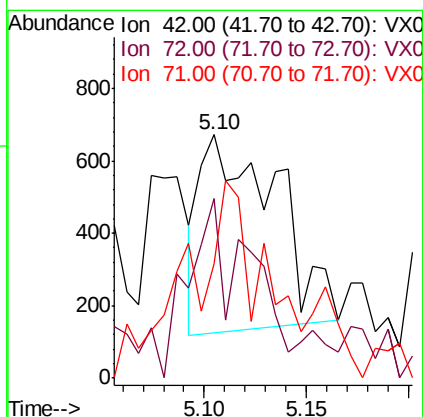
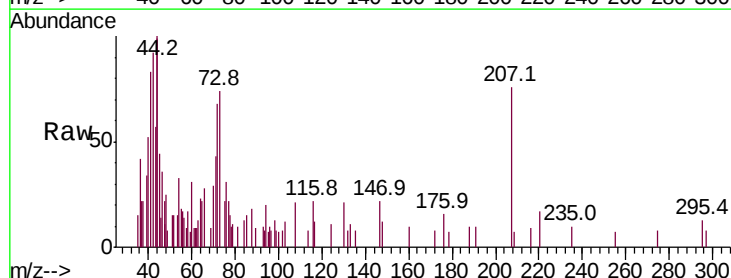
Instrument :
MSVOA_X
ClientSampled :
RO-23

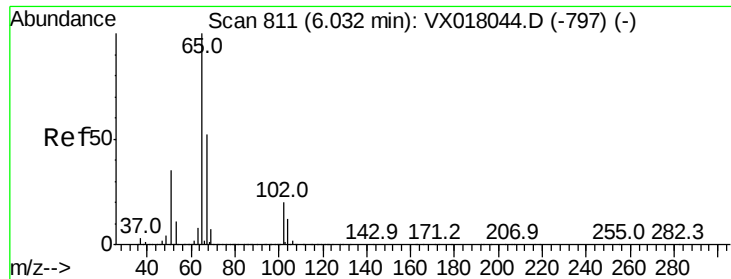
Tot Ion: 43 Resp: 11903
Ion Ratio Lower Upper
43 100
72 17.1 19.8 29.6#



#29
Tetrahydrofuran
Concen: 0.556 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX018085.D
Acq: 26 Aug 2020 18:14

Tgt Ion: 42 Resp: 1409
Ion Ratio Lower Upper
42 100
72 31.9 34.2 51.4#
71 38.7 32.1 48.1

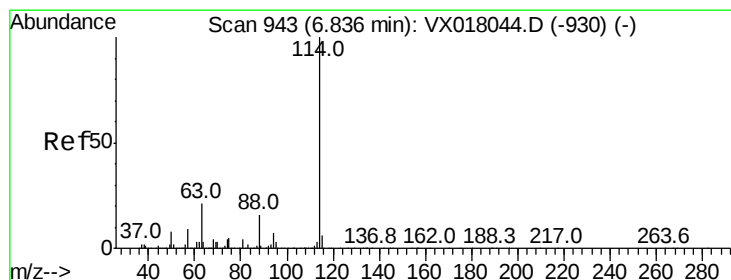
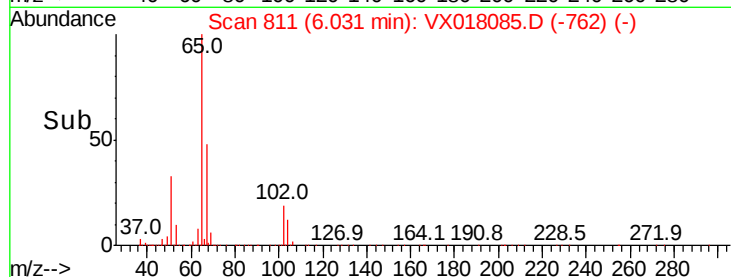
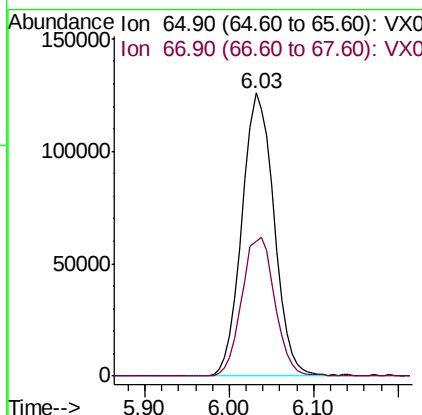
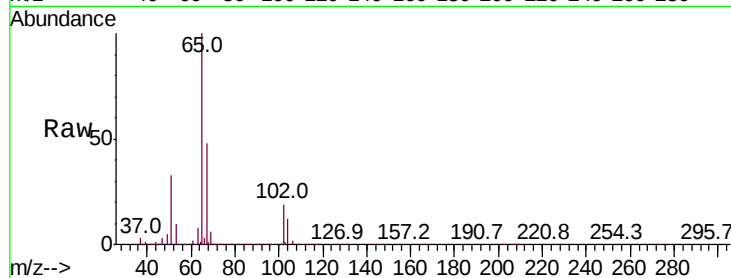




#33
 1,2-Dichloroethane-d4
 Concen: 52.126 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX018085.D
 Acq: 26 Aug 2020 18:14

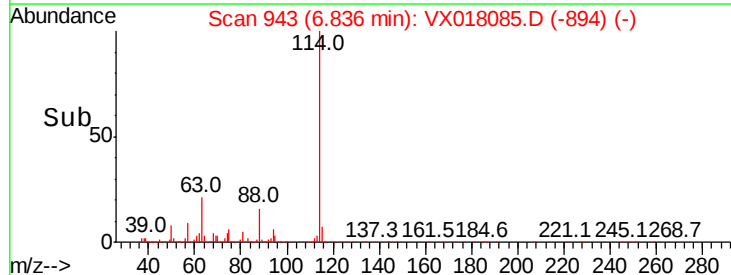
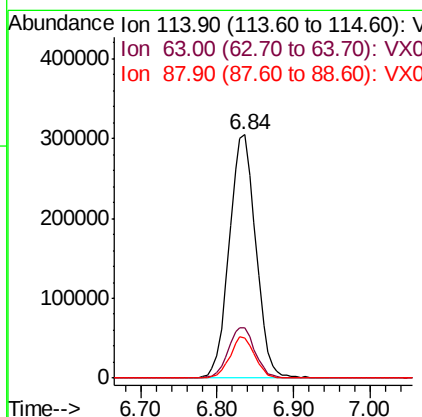
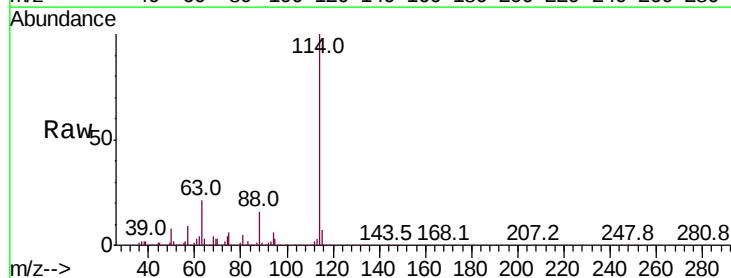
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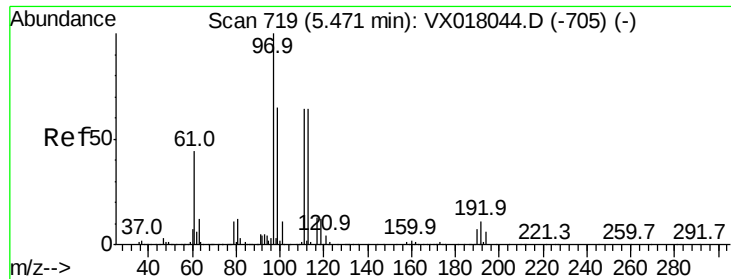
Tot Ion: 65 Resp: 324108
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018085.D
 Acq: 26 Aug 2020 18:14

Tgt Ion: 114 Resp: 731905
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.6
 88 16.3 0.0 31.8

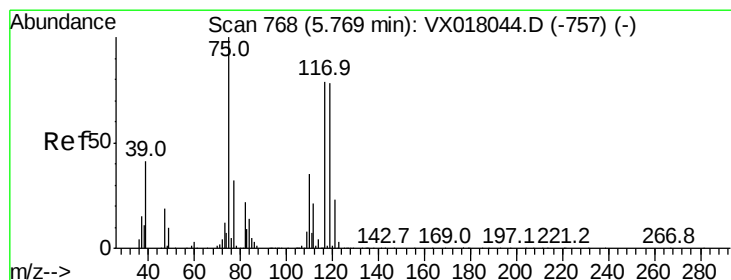
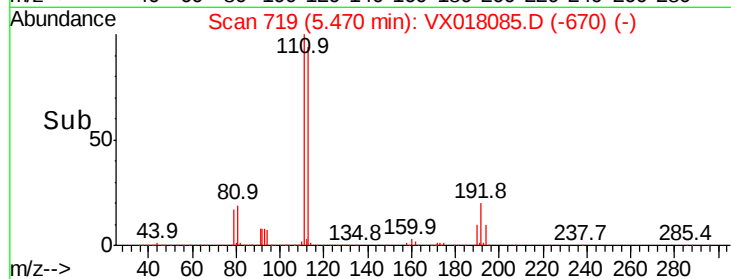
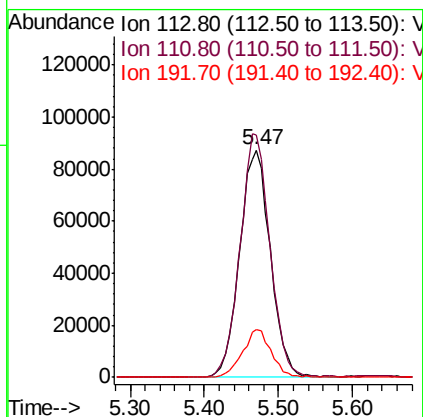
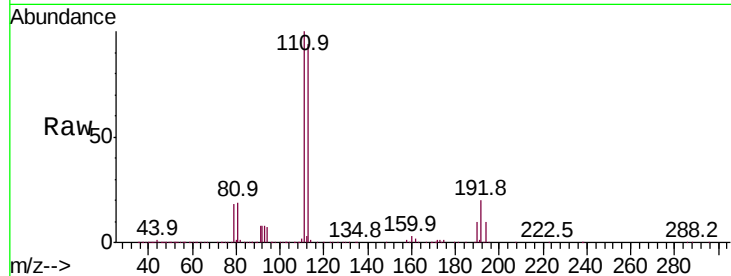




#35
 Dibromofluoromethane
 Concen: 50.763 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX018085.D
 Acq: 26 Aug 2020 18:14

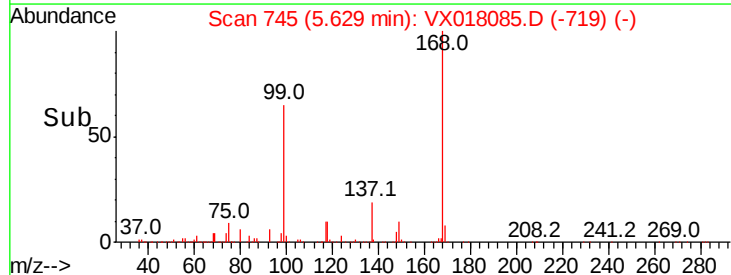
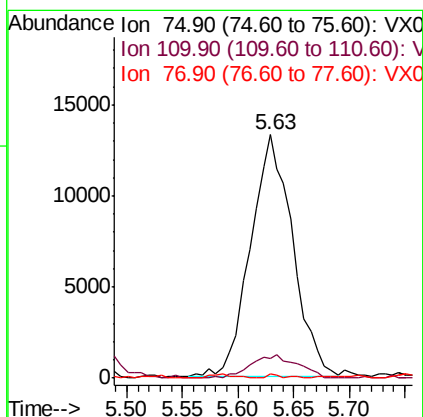
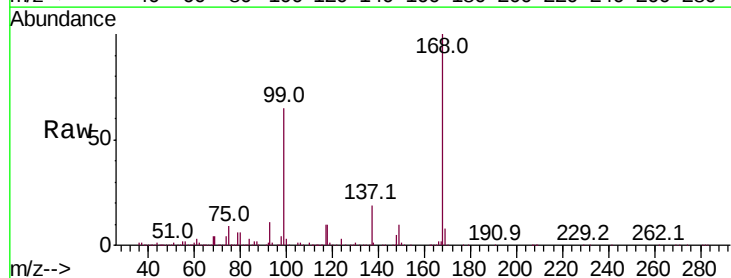
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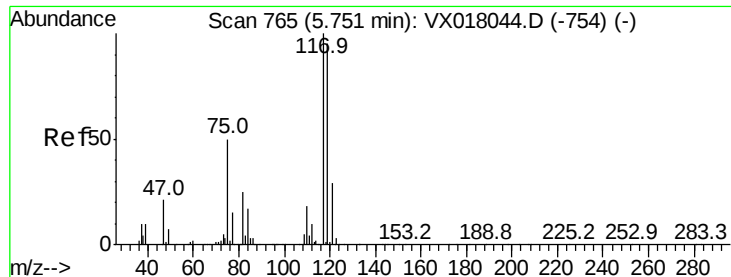
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.6	122.4
192	19.7	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 5.182 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018085.D
 Acq: 26 Aug 2020 18:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.0	54.0#
77	0.7	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 6.262 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

RO-23

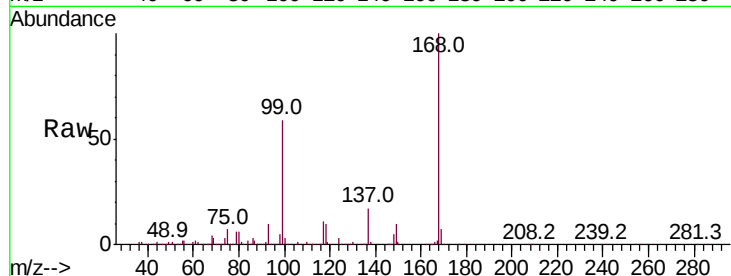
Tot Ion:117 Resp: 47638

Ion Ratio Lower Upper

117 100

119 6.9 75.8 113.6#

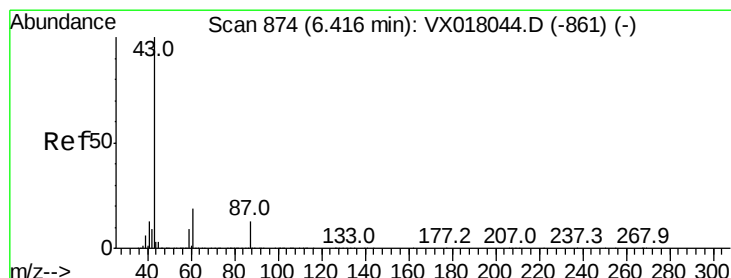
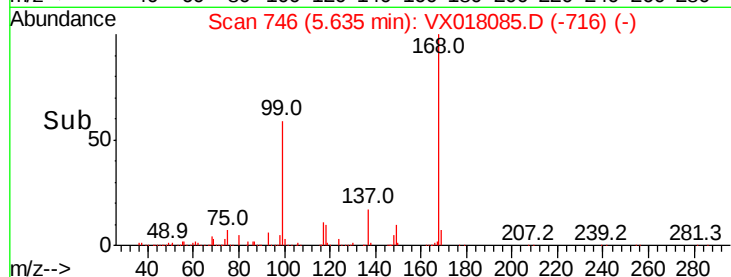
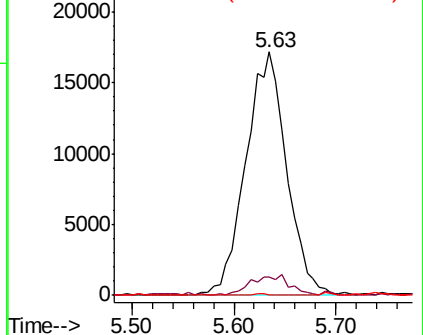
121 0.0 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.715 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

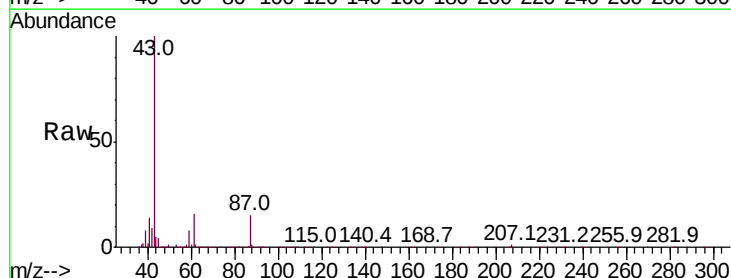
Tgt Ion: 43 Resp: 110364

Ion Ratio Lower Upper

43 100

61 20.5 15.7 23.5

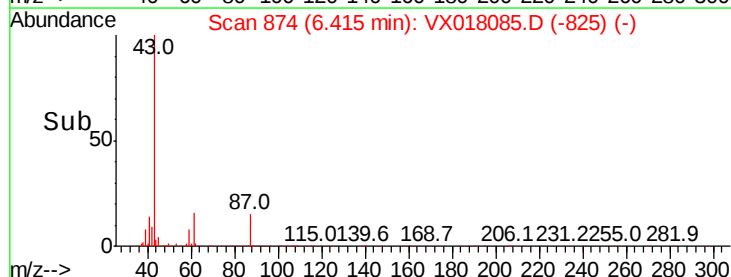
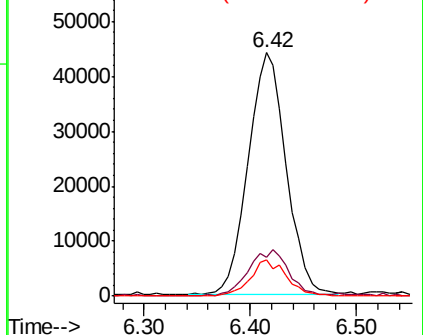
87 14.5 10.3 15.5

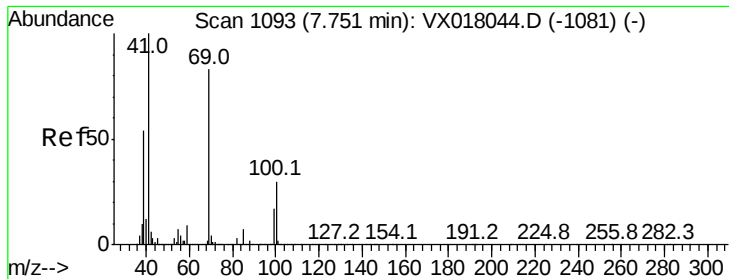


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 27.962 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

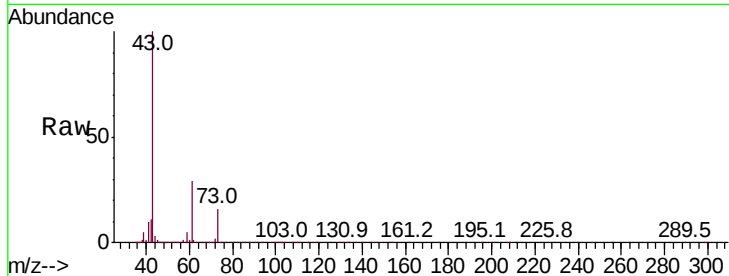
Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :
MSVOA_X
ClientSampled :
RO-23

Tot Ion: 41 Resp: 176278

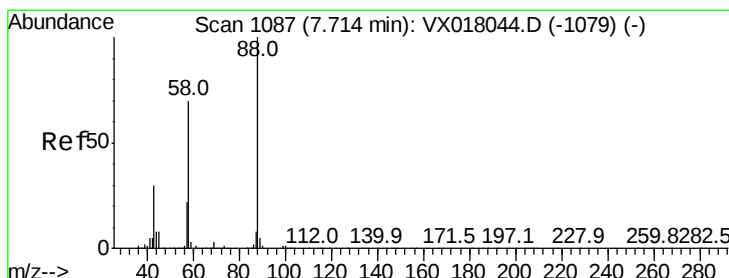
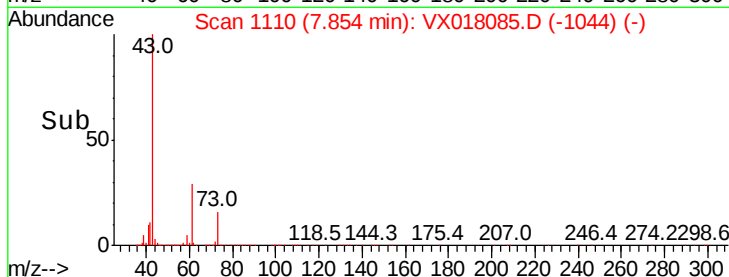
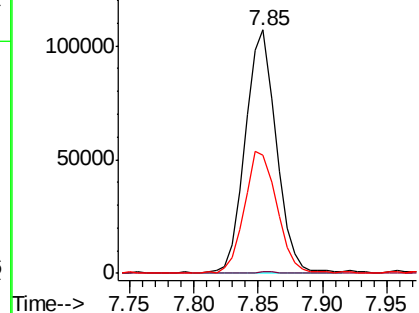
Ion	Ratio	Lower	Upper
41	100		
69	0.5	65.5	98.3#
39	52.5	44.5	66.7



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 1.804 ug/l

RT: 7.72 min Scan# 1088

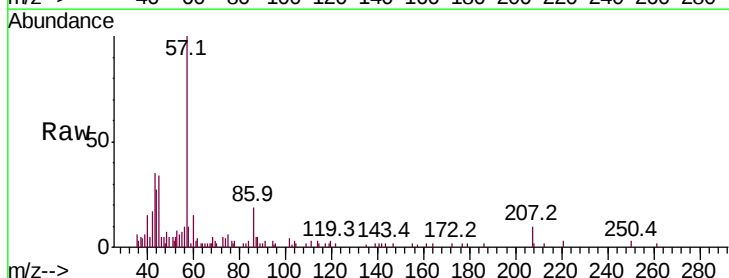
Delta R.T. 0.01 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Tgt Ion: 88 Resp: 206

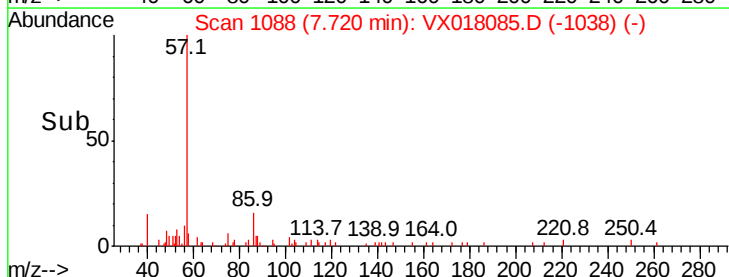
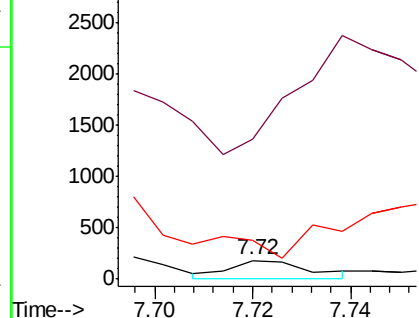
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	56.4	84.6#

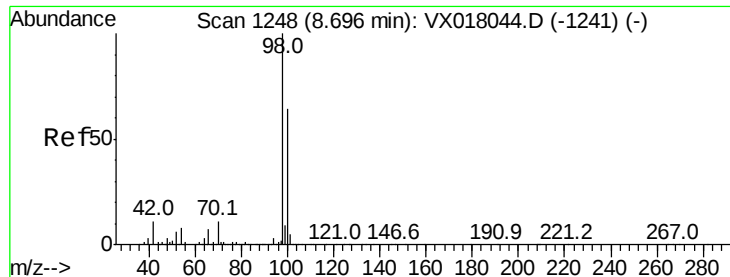


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.952 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

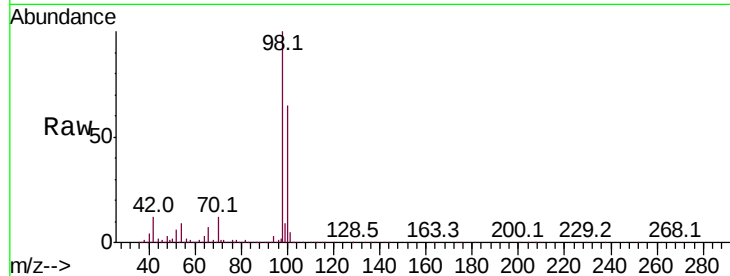
RO-23

Tot Ion: 98 Resp: 927379

Ion Ratio Lower Upper

98 100

100 63.6 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

600000

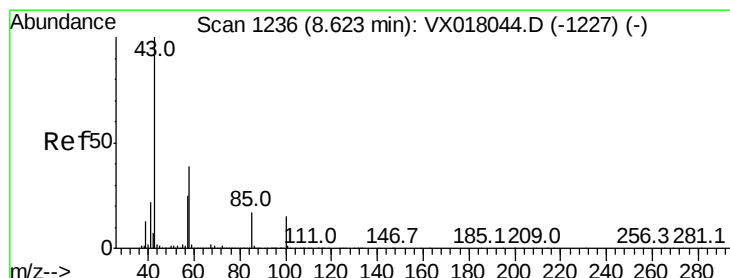
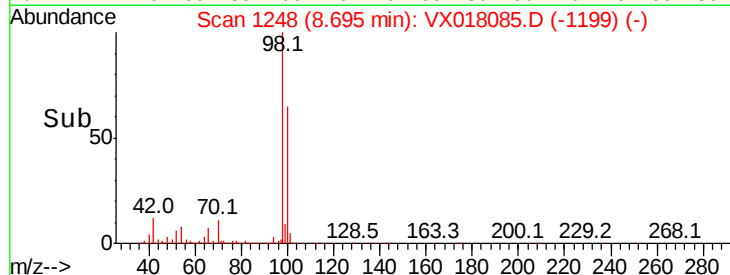
400000

200000

0

8.60 8.70 8.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 13.400 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX018085.D

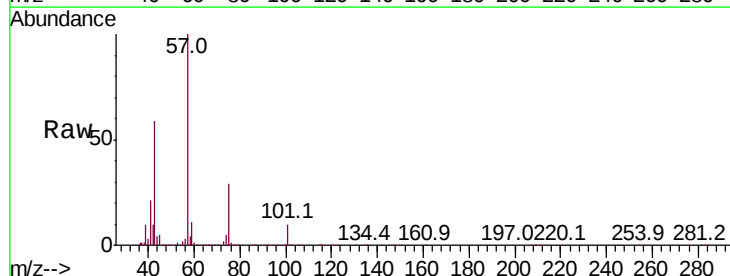
Acq: 26 Aug 2020 18:14

Tgt Ion: 43 Resp: 104822

Ion Ratio Lower Upper

43 100

58 7.4 30.7 46.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

60000

50000

40000

30000

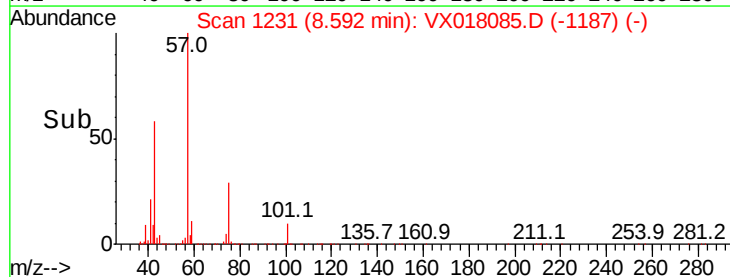
20000

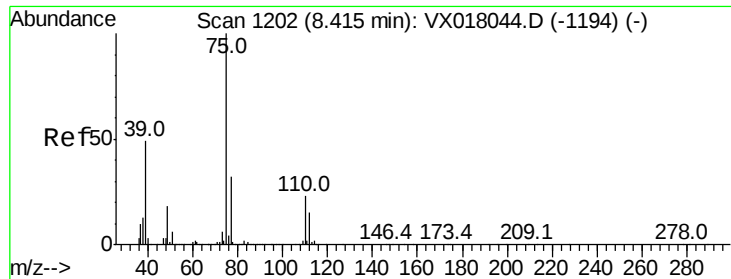
10000

0

8.50 8.55 8.60 8.65 8.70

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.915 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

RO-23

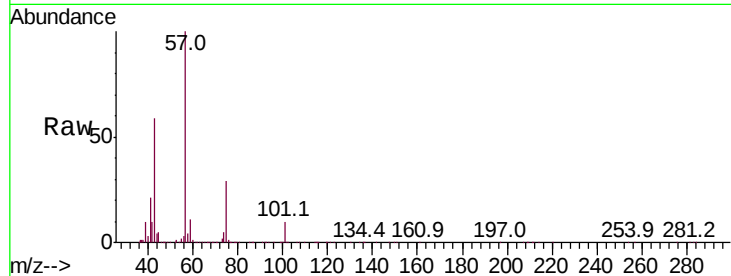
Tot Ion: 75 Resp: 43319

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

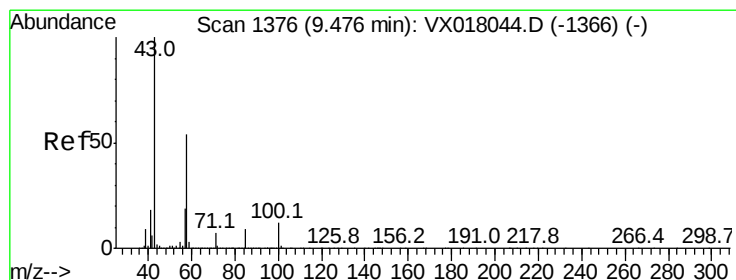
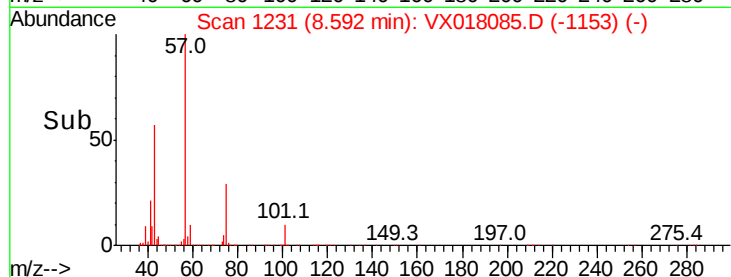
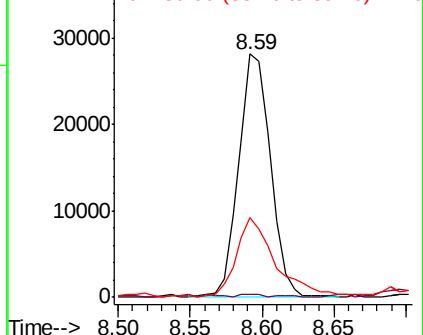
39 31.8 38.8 58.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 15.913 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018085.D

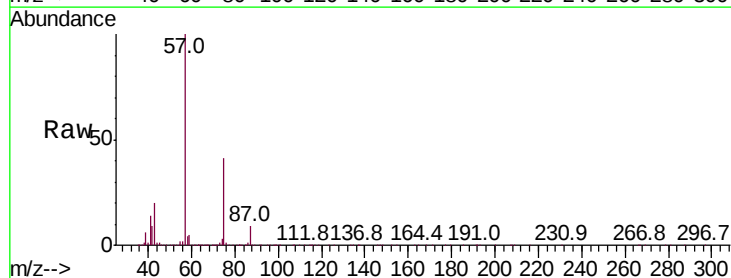
Acq: 26 Aug 2020 18:14

Tgt Ion: 43 Resp: 94653

Ion Ratio Lower Upper

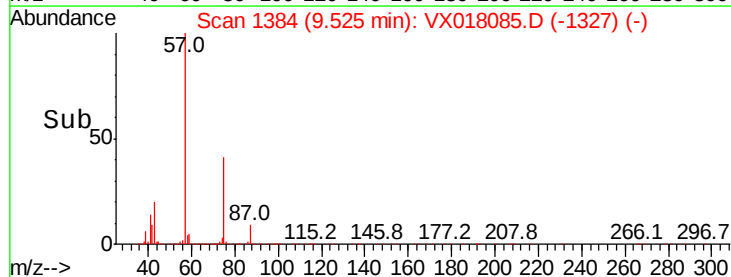
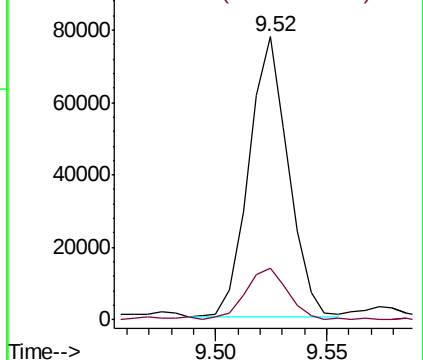
43 100

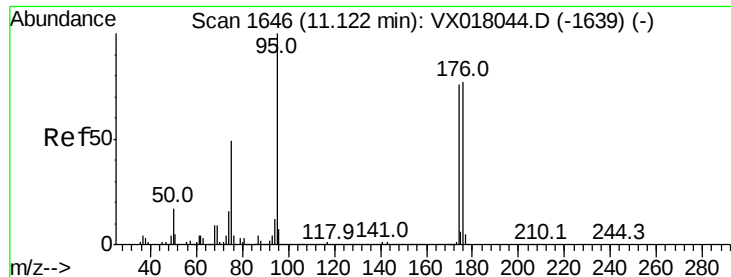
58 20.2 26.6 79.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.636 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

RO-23

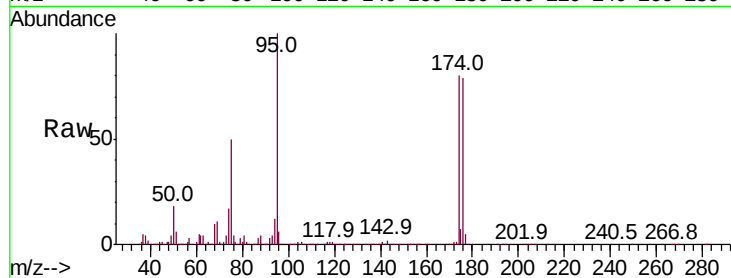
Tot Ion: 95 Resp: 340647

Ion Ratio Lower Upper

95 100

174 80.7 0.0 160.2

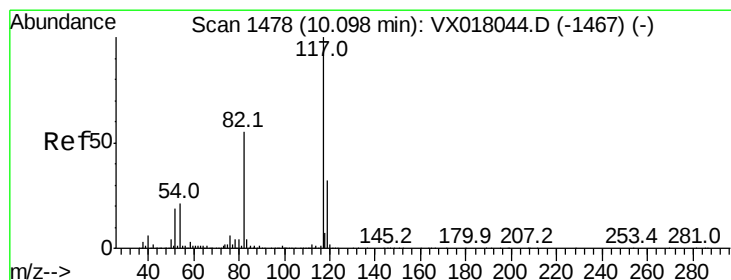
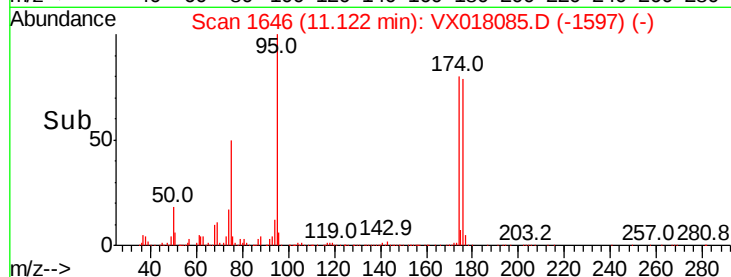
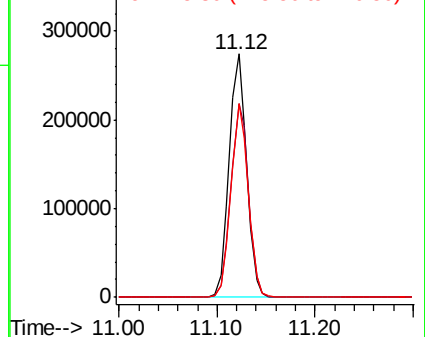
176 79.0 0.0 155.8



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: VX018085.D

Acq: 26 Aug 2020 18:14

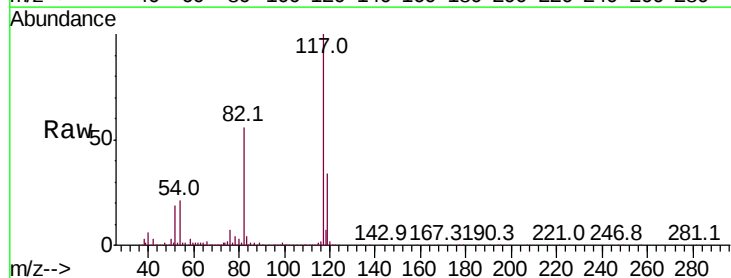
Tgt Ion: 117 Resp: 715878

Ion Ratio Lower Upper

117 100

82 55.8 44.2 66.2

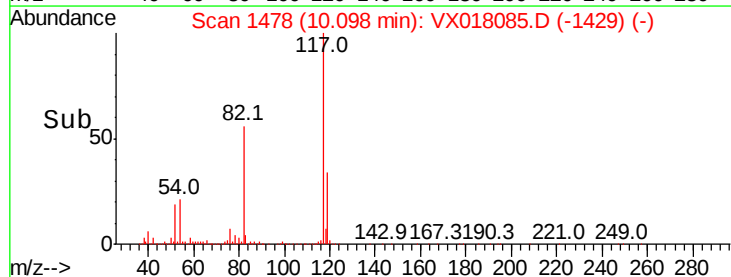
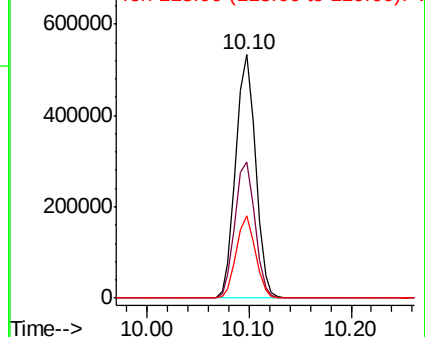
119 33.6 25.7 38.5

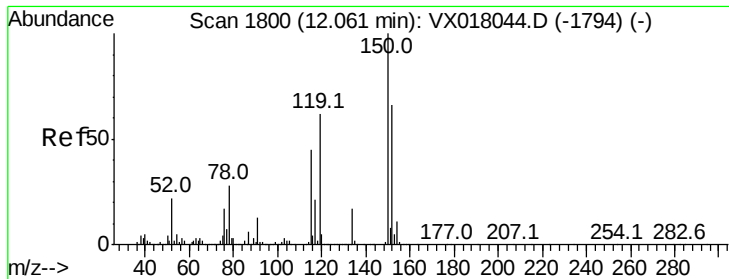


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampleId :

RO-23

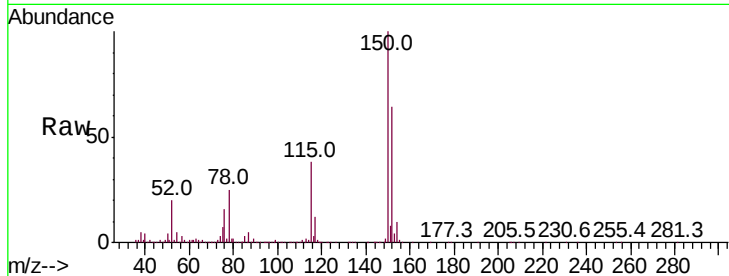
Tot Ion:152 Resp: 346027

Ion Ratio Lower Upper

152 100

115 58.5 41.5 124.5

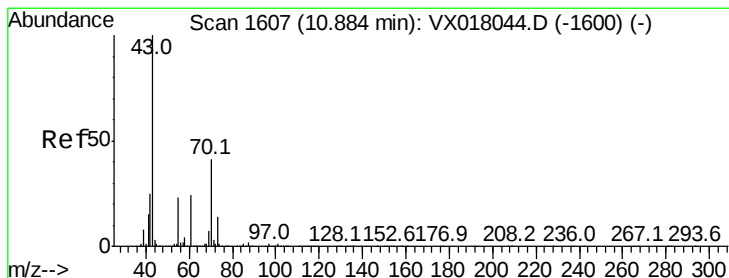
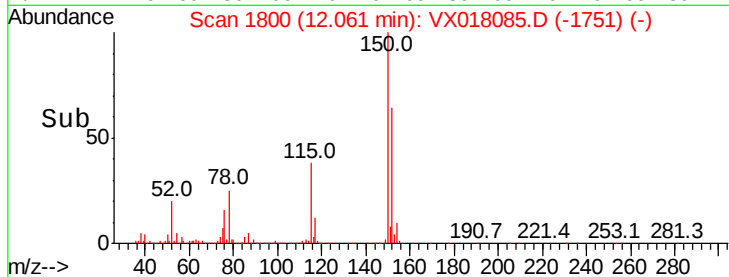
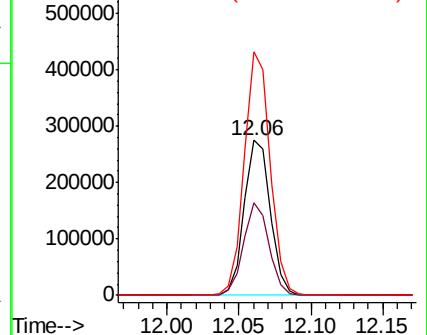
150 155.8 0.0 343.8



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: 0.526 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Tgt Ion: 43 Resp: 5699

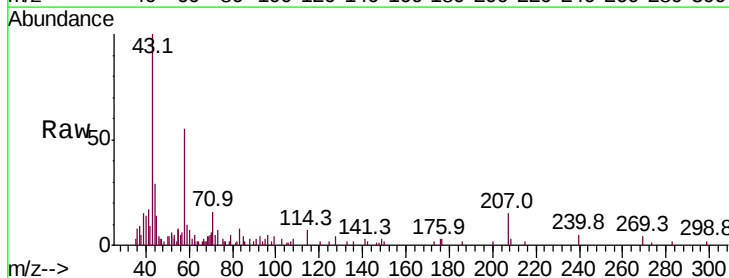
Ion Ratio Lower Upper

43 100

70 10.7 32.3 48.5#

55 20.2 18.2 27.2

61 0.0 18.9 28.3#

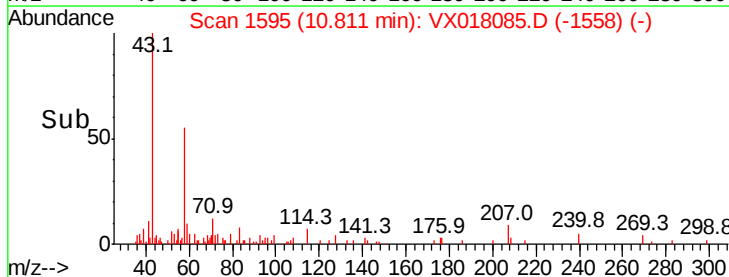
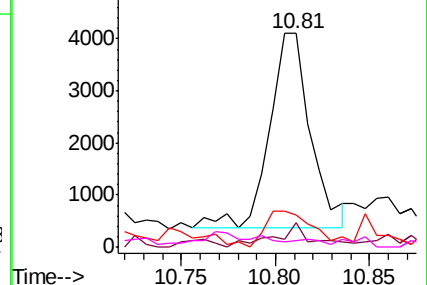


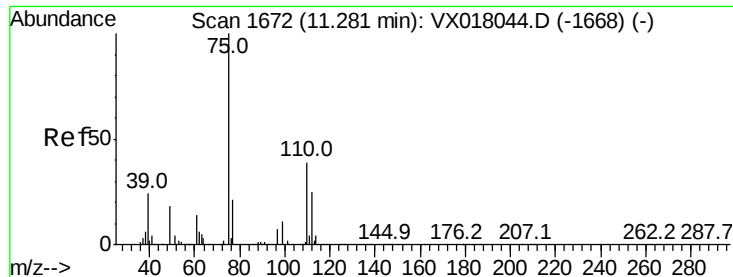
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.642 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Instrument :

MSVOA_X

ClientSampled :

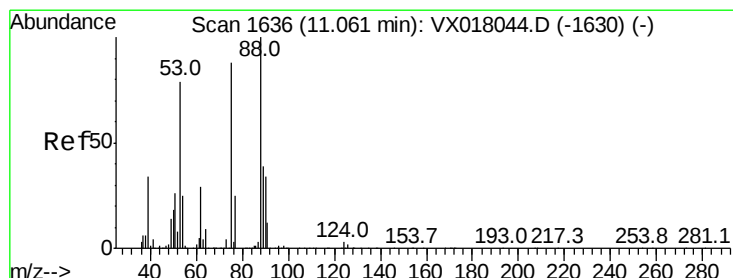
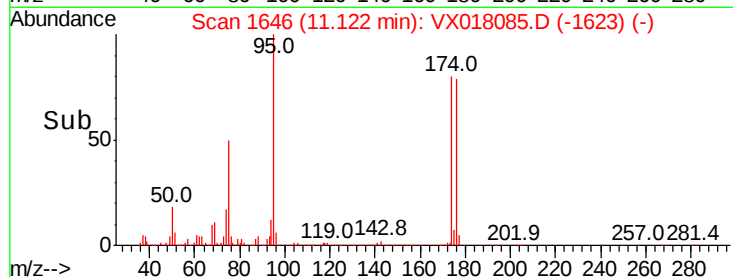
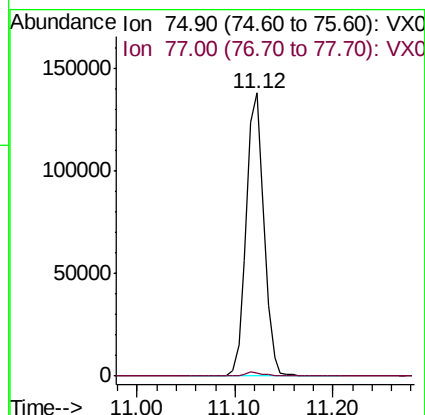
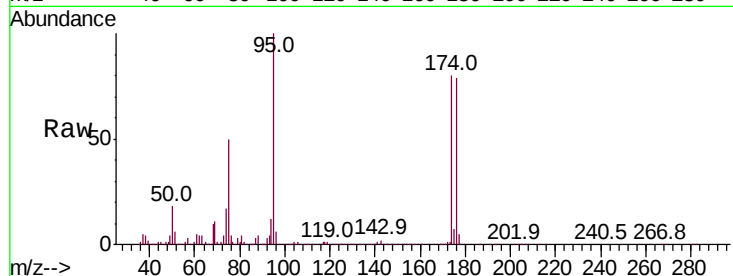
RO-23

Tot Ion: 75 Resp: 174289

Ion Ratio Lower Upper

75 100

77 1.6 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.153 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018085.D

Acq: 26 Aug 2020 18:14

Tgt Ion: 75 Resp: 174289

Ion Ratio Lower Upper

75 100

53 0.9 74.7 112.1#

89 0.1 36.6 54.8#

