

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052920\
 Data File : VX016512.D
 Acq On : 29 May 2020 15:40
 Operator : JC/SP
 Sample : L2503-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-052820

Quant Time: May 30 01:43:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	292627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	471703	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	469232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231130	50.00	ug/l	0.00

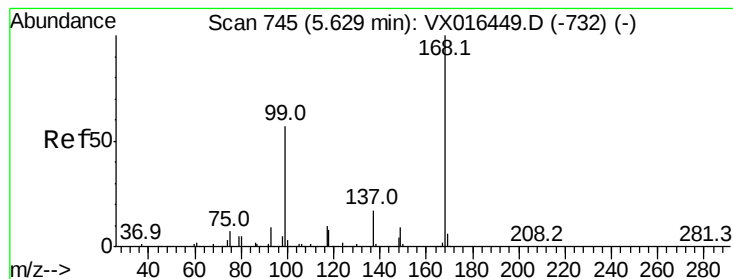
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	170381	46.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	
35) Dibromofluoromethane	5.47	113	138144	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	
50) Toluene-d8	8.70	98	586694	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	
62) 4-Bromofluorobenzene	11.12	95	237227	54.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.62%	

Target Compounds

						Qvalue
5) Bromomethane	1.65	94	390	0.218	ug/l #	39
10) Methyl Iodide	2.50	142	82	3.080	ug/l #	40
11) Tert butyl alcohol	3.01	59	2391	2.566	ug/l	97
13) Acrolein	2.27	56	2365	5.966	ug/l	94
16) Acetone	2.42	43	25287	15.882	ug/l	95
17) Carbon Disulfide	2.56	76	2252	0.269	ug/l #	93
18) Methyl Acetate	2.75	43	3928	0.962	ug/l	97
20) Methylene Chloride	2.84	84	4669	1.417	ug/l	92
25) 2-Butanone	4.64	43	11408	4.229	ug/l #	87
29) Tetrahydrofuran	5.11	42	1520	0.872	ug/l #	57
31) Cyclohexane	5.63	56	5577	1.104	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	21482	4.810	ug/l #	50
37) Ethyl Acetate	4.64	43	11408	2.128	ug/l #	68
38) Carbon Tetrachloride	5.63	117	28253	6.020	ug/l #	15
43) Isopropyl Acetate	6.42	43	66444	7.944	ug/l	99
48) Methyl methacrylate	7.65	41	4932	1.232	ug/l #	14
49) 1,4-Dioxane	7.69	88	23	0.245	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	64280	12.343	ug/l #	45
54) cis-1,3-Dichloropropene	8.59	75	29590	5.221	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	4947	0.864	ug/l #	44
59) 2-Hexanone	9.52	43	65294	16.123	ug/l #	49
74) N-amyl acetate	10.81	43	4765	0.647	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	115287	22.693	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	115287	55.821	ug/l #	14

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

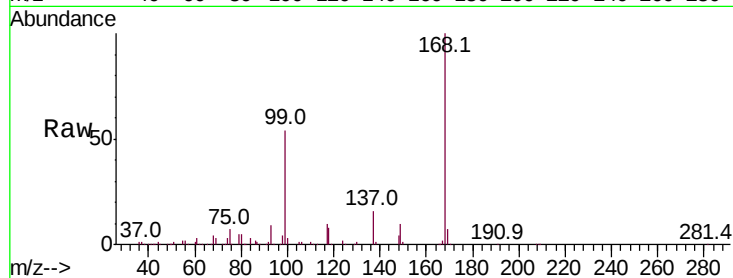
OR-03-052820

Tot Ion:168 Resp: 292627

Ion Ratio Lower Upper

168 100

99 54.1 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

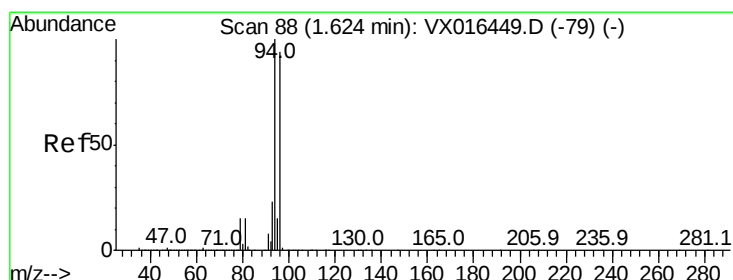
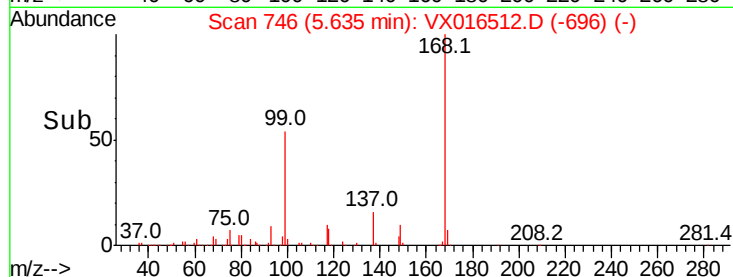
20000

0

5.50 5.60 5.70 5.80

5.64

Time-->



#5

Bromomethane

Concen: 0.218 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX016512.D

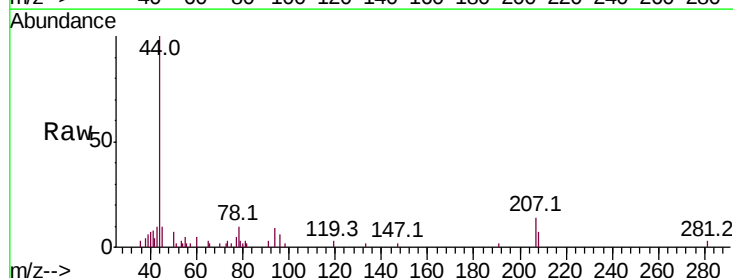
Acq: 29 May 2020 15:40

Tgt Ion: 94 Resp: 390

Ion Ratio Lower Upper

94 100

96 35.4 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

100

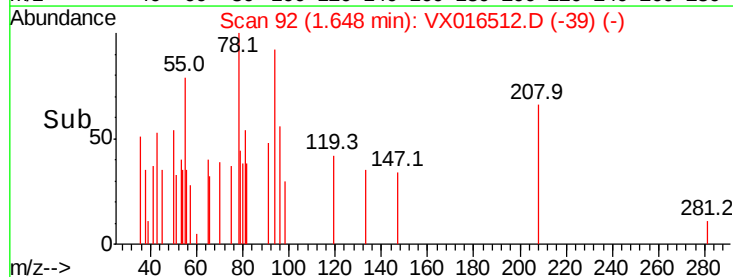
50

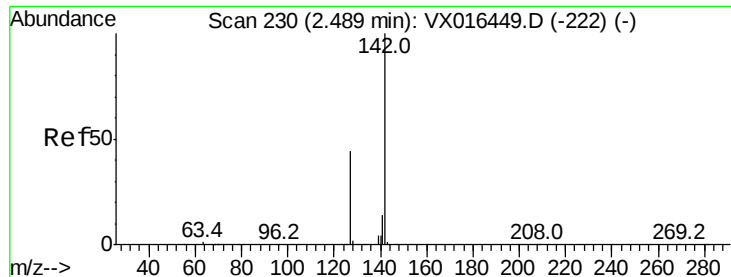
0

1.60 1.65 1.70

1.65

Time-->

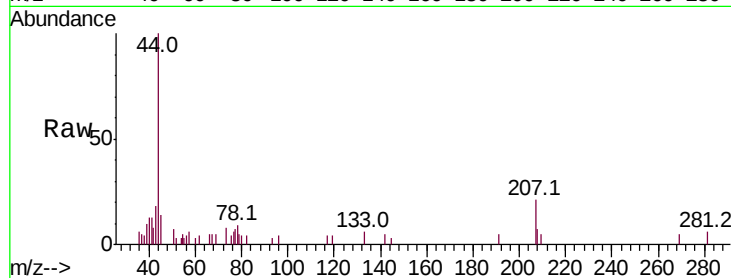




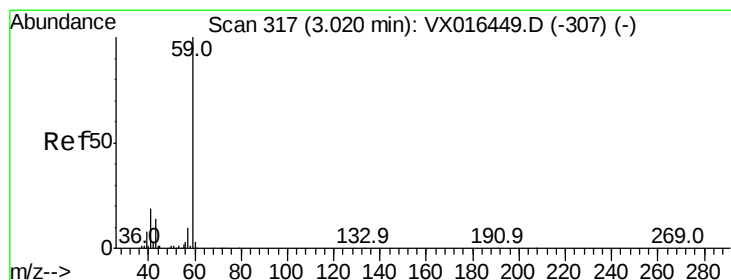
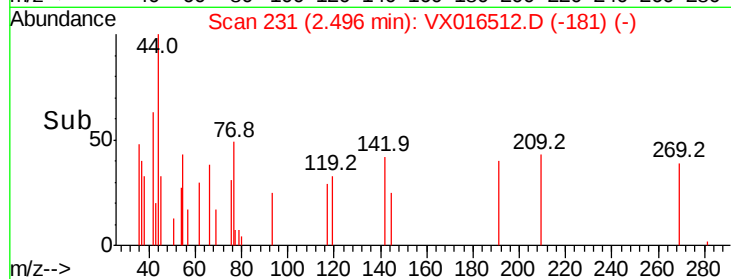
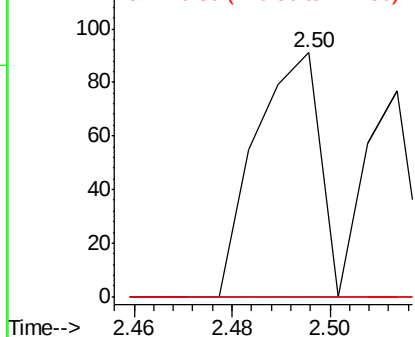
#10
Methyl Iodide
Concen: 3.080 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Instrument :
MSVOA_X
ClientSampleId :
OR-03-052820

Tot Ion:142 Resp: 82
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.4 17.2#

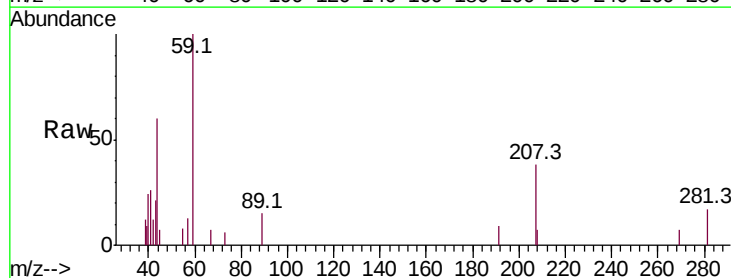


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

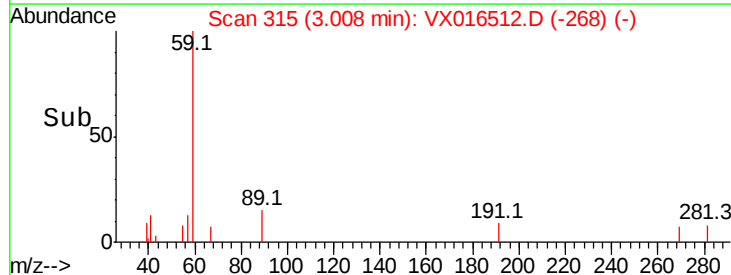
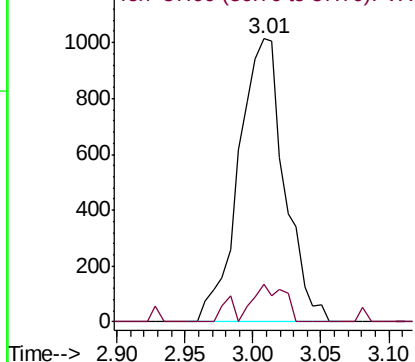


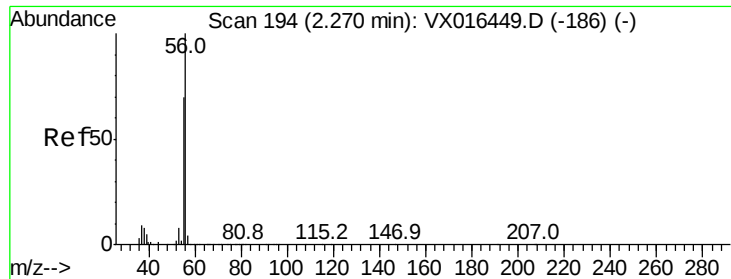
#11
Tert butyl alcohol
Concen: 2.566 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Tgt Ion: 59 Resp: 2391
Ion Ratio Lower Upper
59 100
57 9.2 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.966 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

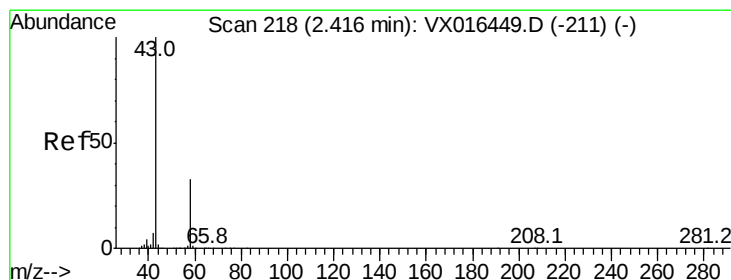
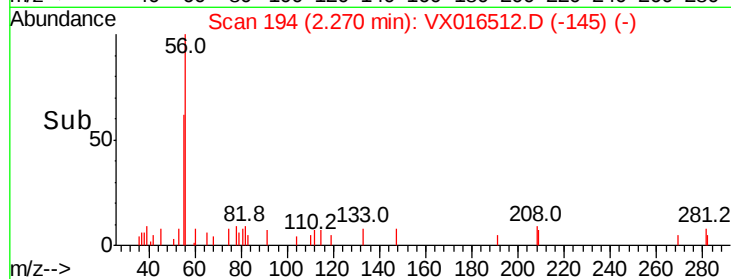
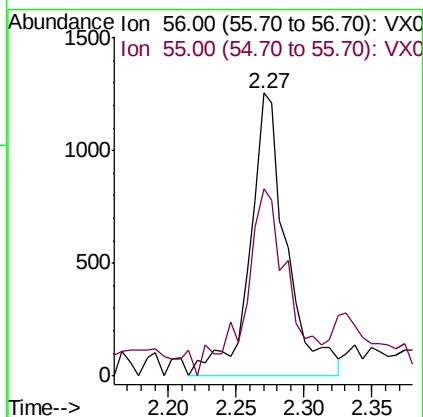
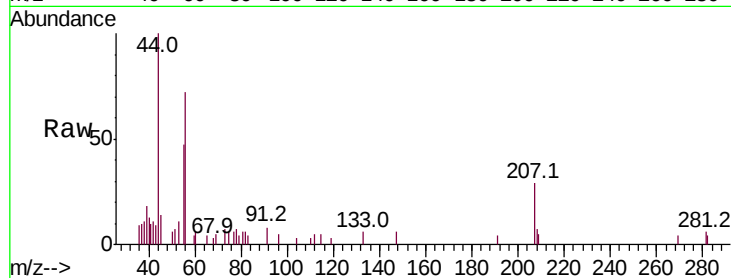
OR-03-052820

Tot Ion: 56 Resp: 2365

Ion Ratio Lower Upper

56 100

55 77.8 58.3 87.5



#16

Acetone

Concen: 15.882 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016512.D

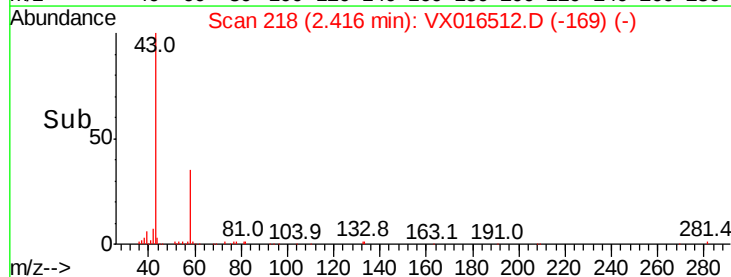
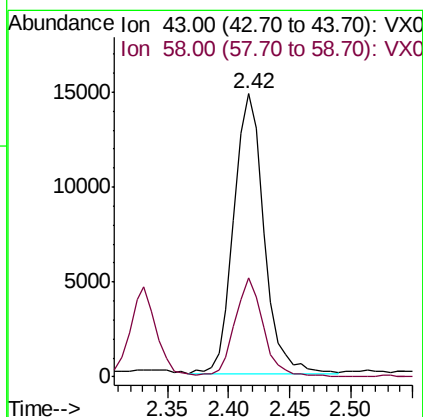
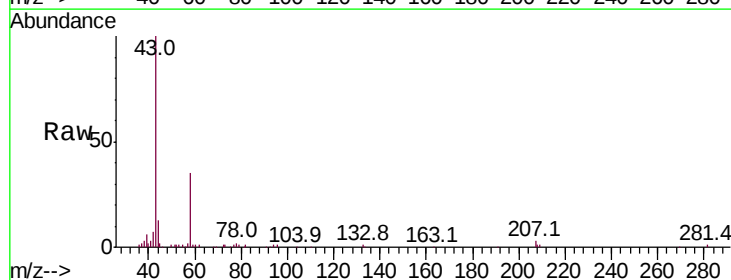
Acq: 29 May 2020 15:40

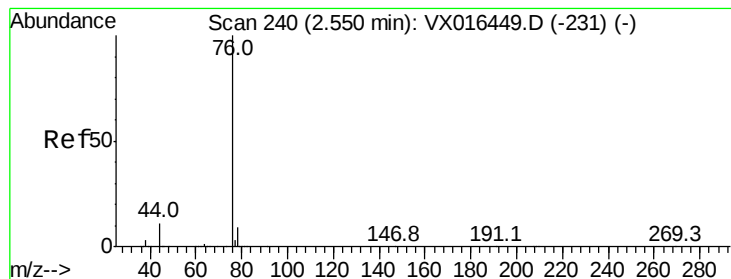
Tgt Ion: 43 Resp: 25287

Ion Ratio Lower Upper

43 100

58 35.2 26.1 39.1





#17

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

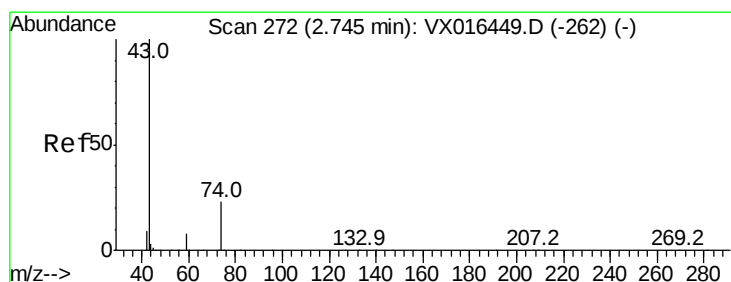
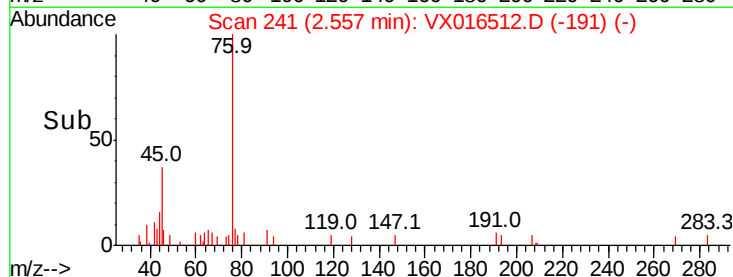
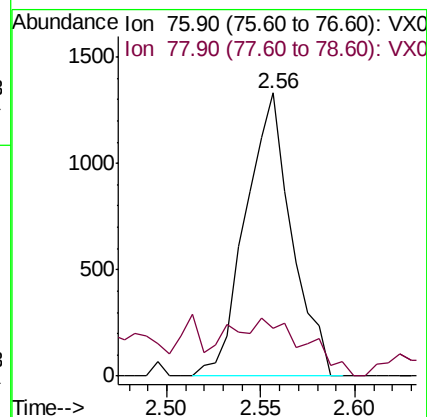
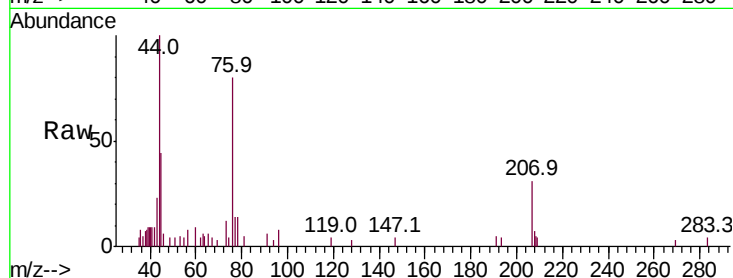
OR-03-052820

Tot Ion: 76 Resp: 2252

Ion Ratio Lower Upper

76 100

78 11.9 7.4 11.0#



#18

Methyl Acetate

Concen: 0.962 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX016512.D

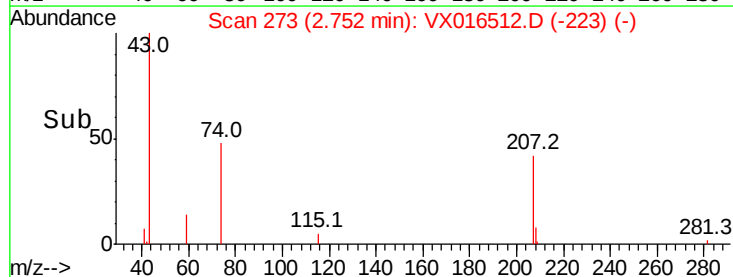
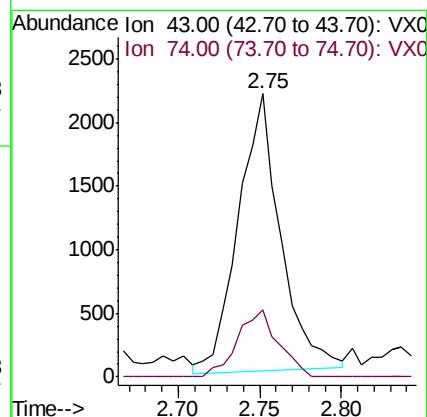
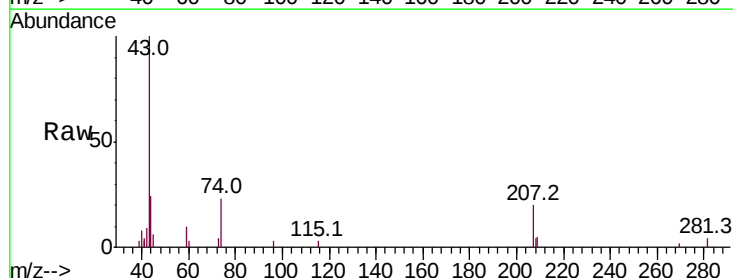
Acq: 29 May 2020 15:40

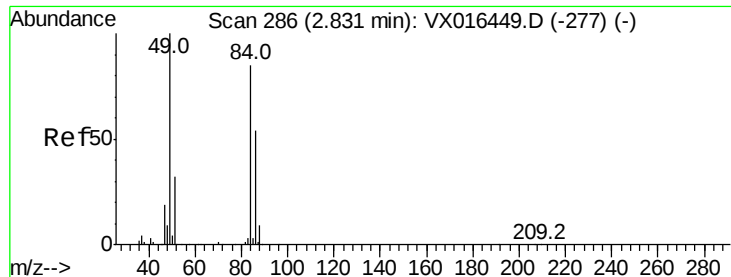
Tgt Ion: 43 Resp: 3928

Ion Ratio Lower Upper

43 100

74 23.3 19.7 29.5

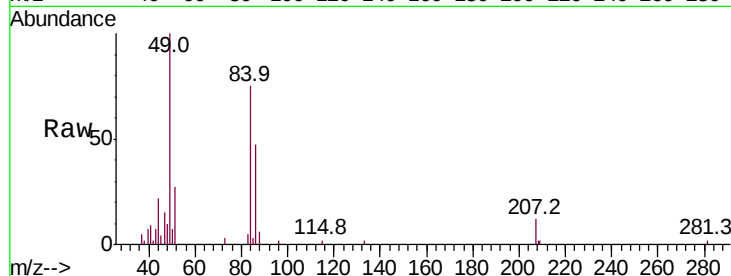




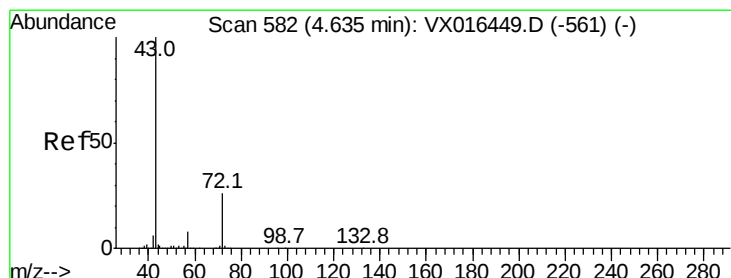
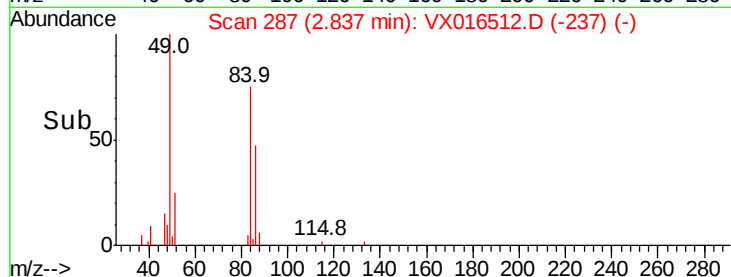
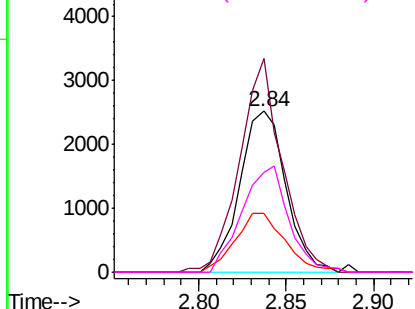
#20
Methvlene Chloride
Concen: 1.417 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Instrument :
MSVOA_X
ClientSampleId :
OR-03-052820

Tot Ion: 84 Resp: 4669
Ion Ratio Lower Upper
84 100
49 132.5 94.5 141.7
51 36.2 30.2 45.4
86 62.0 51.1 76.7

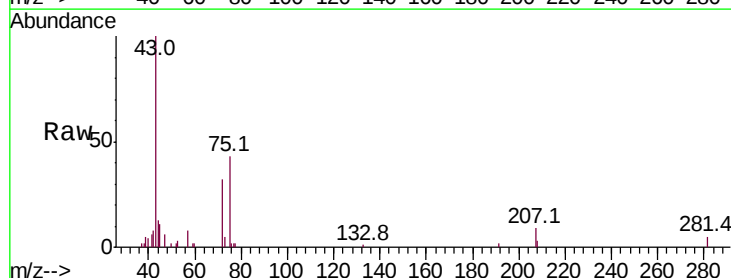


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

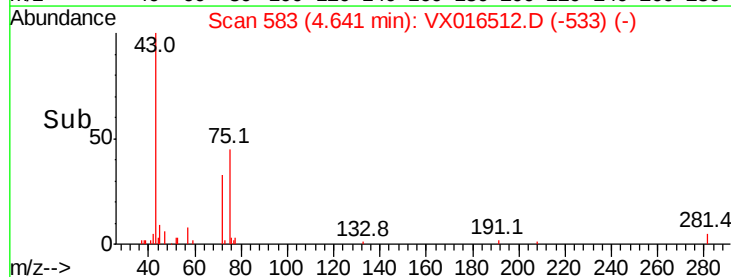
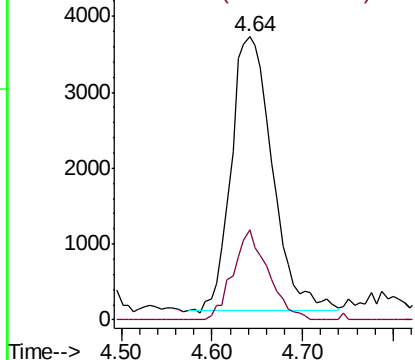


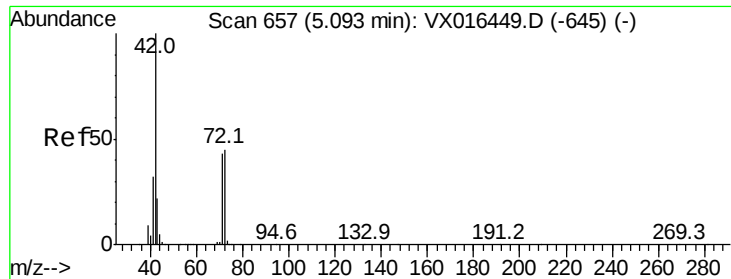
#25
2-Butanone
Concen: 4.229 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Tgt Ion: 43 Resp: 11408
Ion Ratio Lower Upper
43 100
72 33.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.872 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

OR-03-052820

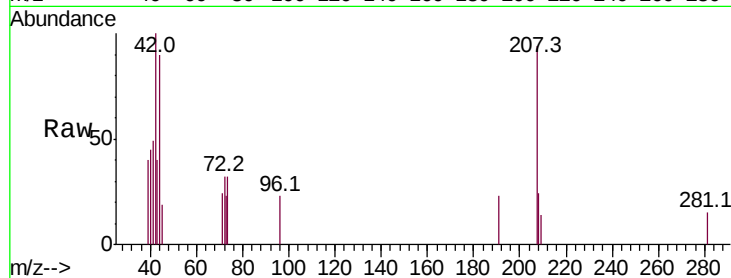
Tot Ion: 42 Resp: 1520

Ion Ratio Lower Upper

42 100

72 20.5 37.0 55.4#

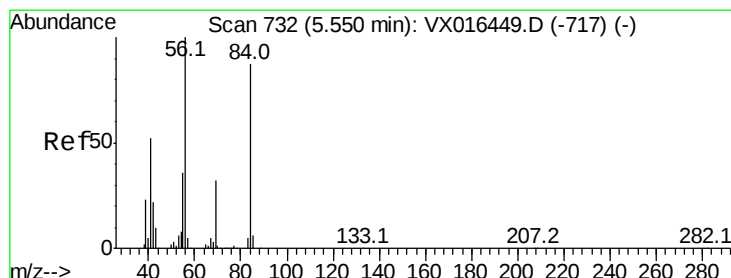
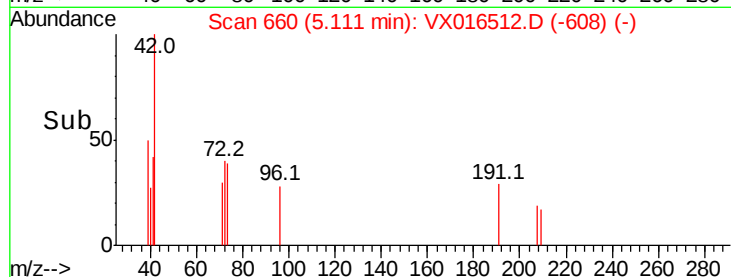
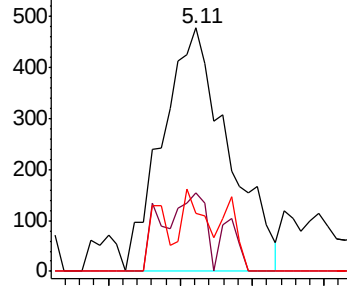
71 12.3 34.1 51.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.104 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

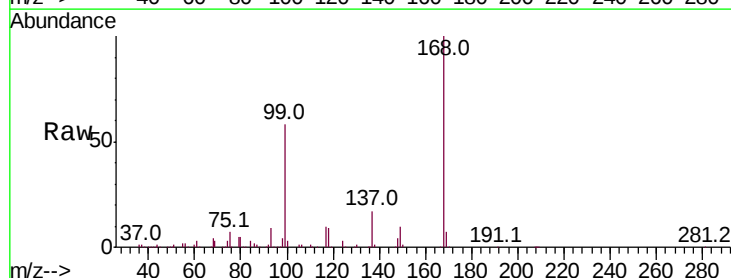
Tgt Ion: 56 Resp: 5577

Ion Ratio Lower Upper

56 100

69 189.7 25.7 38.5#

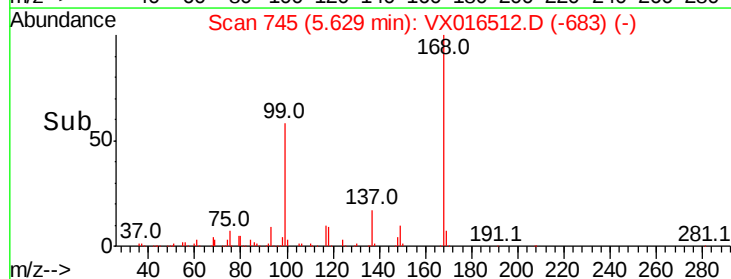
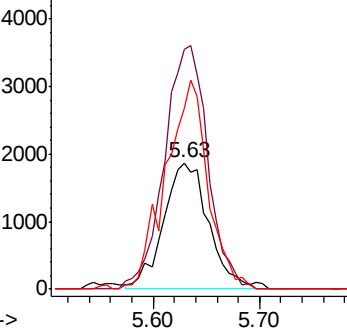
84 143.8 70.0 105.0#

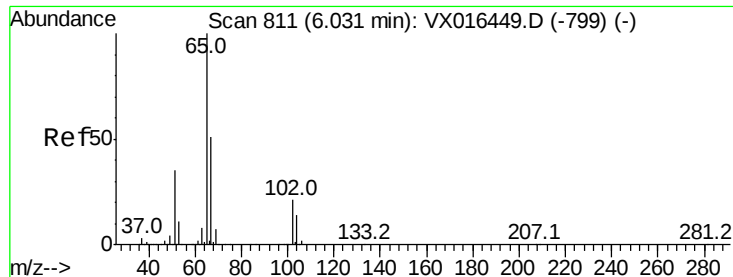


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

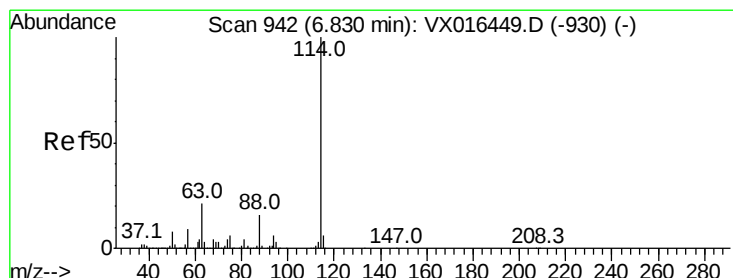
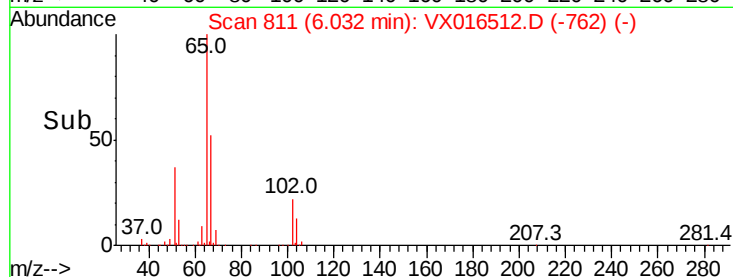
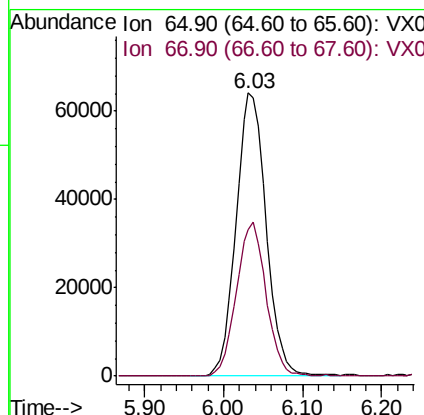
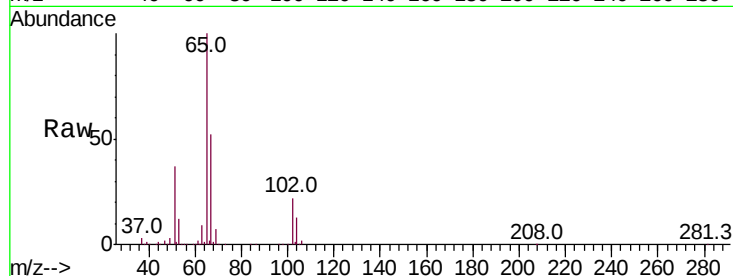




#33
 1,2-Dichloroethane-d4
 Concen: 46.885 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016512.D
 Acq: 29 May 2020 15:40

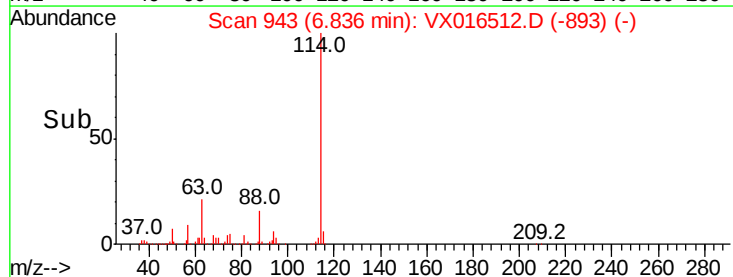
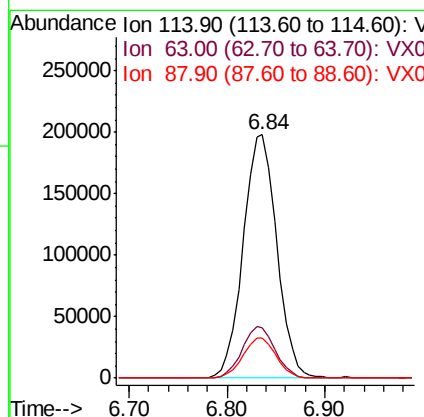
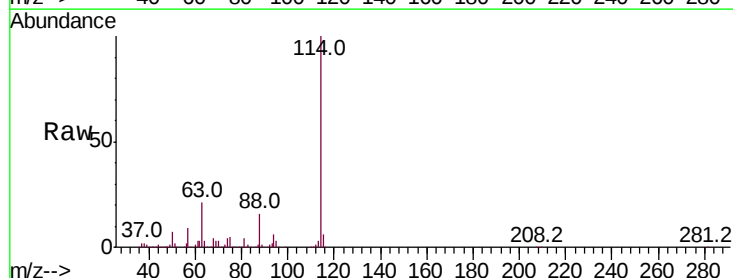
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-052820

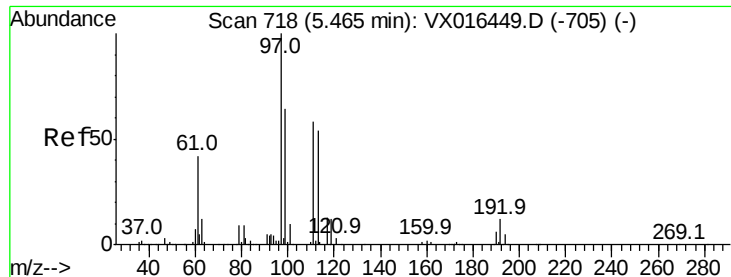
Tot Ion: 65 Resp: 170381
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016512.D
 Acq: 29 May 2020 15:40

Tgt Ion: 114 Resp: 471703
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.6
 88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 47.562 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

OR-03-052820

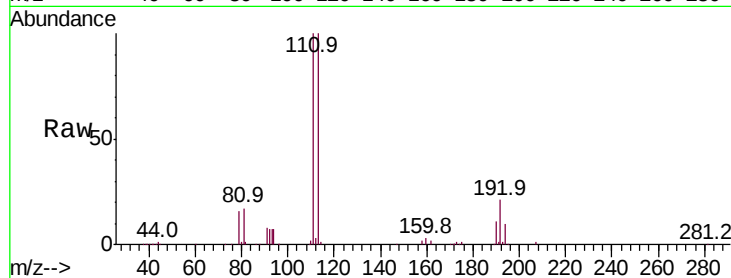
Tot Ion:113 Resp: 138144

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.6

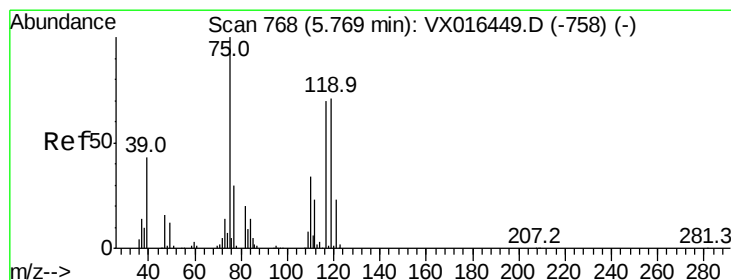
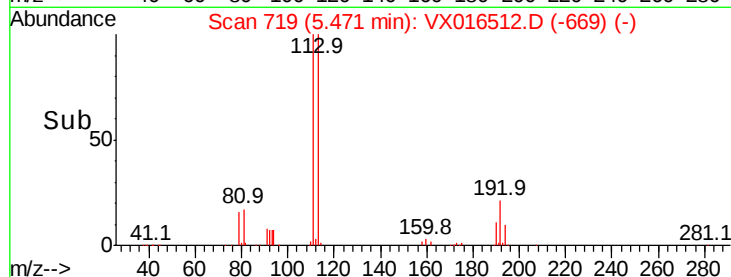
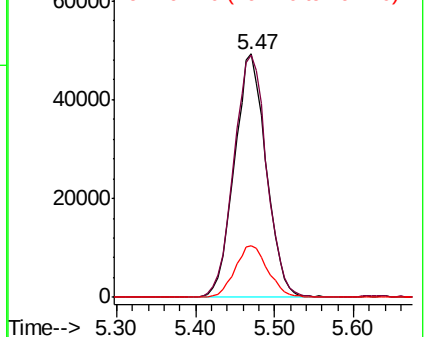
192 21.9 17.7 26.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.810 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

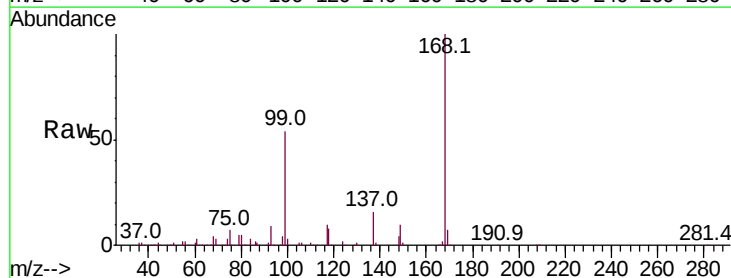
Tgt Ion: 75 Resp: 21482

Ion Ratio Lower Upper

75 100

110 9.3 17.4 52.3#

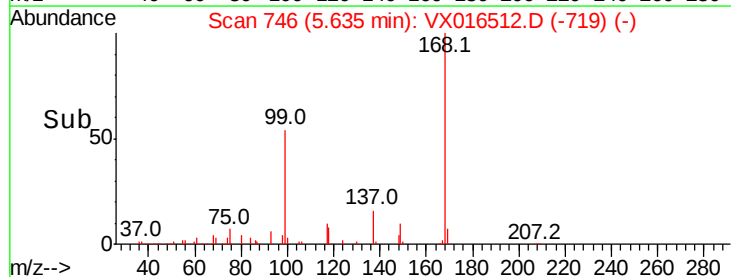
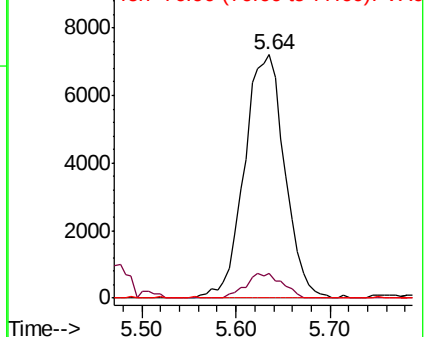
77 0.0 24.2 36.4#

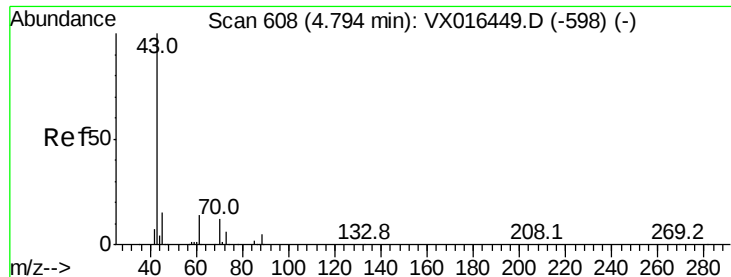


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

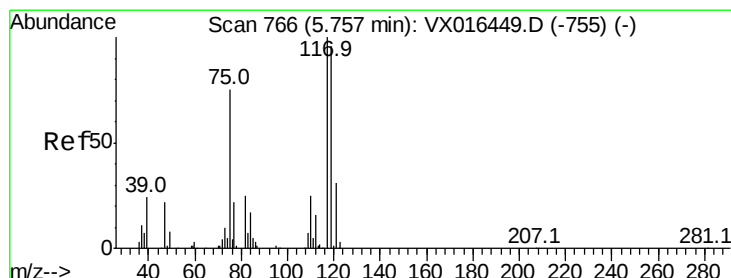
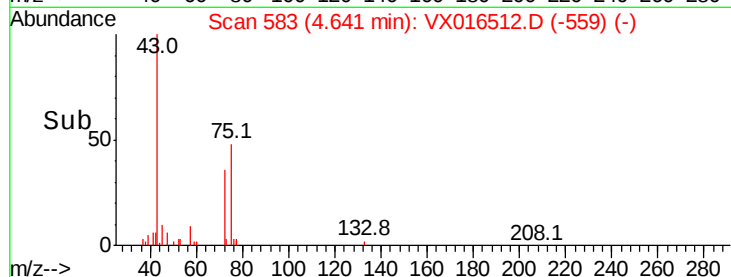
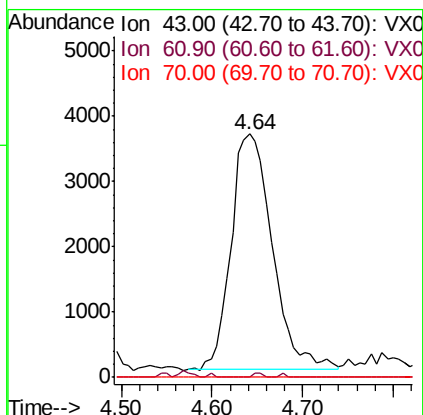
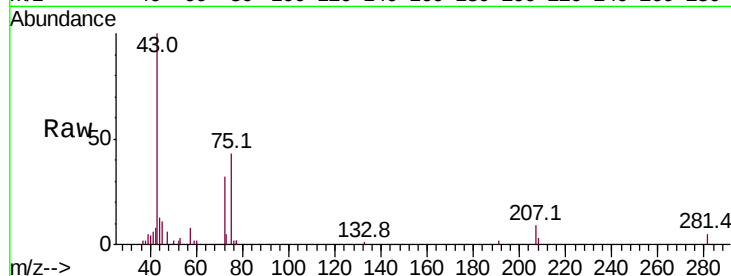




#37
Ethyl Acetate
Concen: 2.128 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

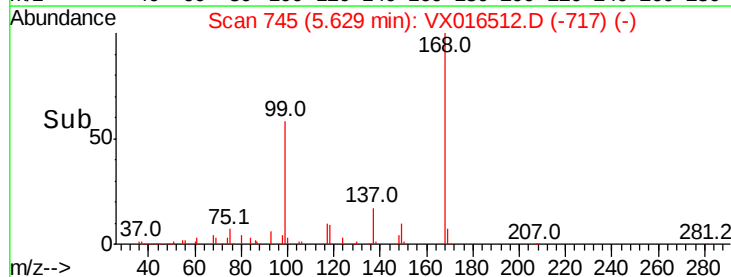
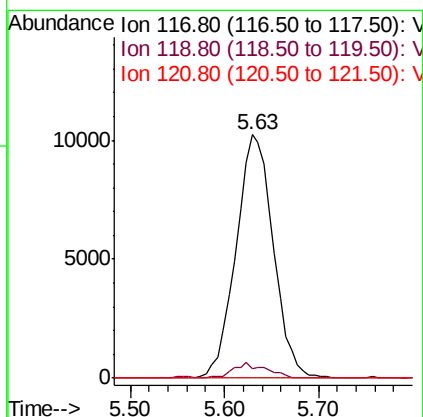
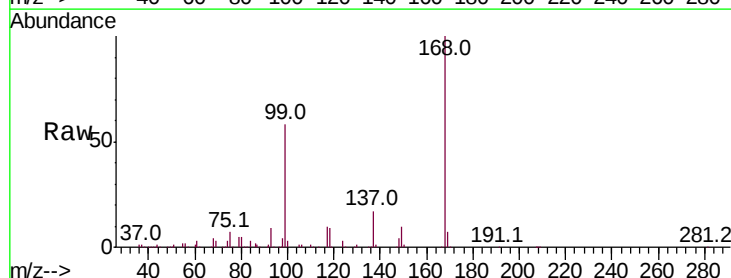
Instrument :
MSVOA_X
ClientSampleId :
OR-03-052820

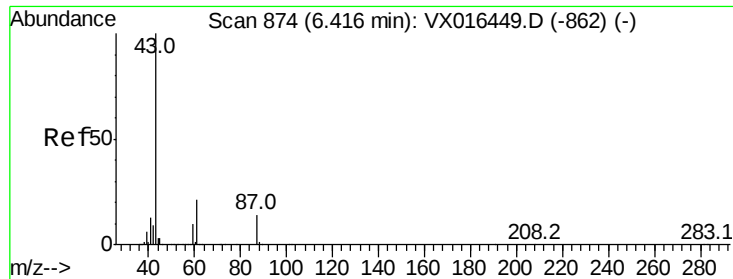
Tot Ion: 43 Resp: 11408
Ion Ratio Lower Upper
43 100
61 0.4 11.3 16.9#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.020 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Tgt Ion: 117 Resp: 28253
Ion Ratio Lower Upper
117 100
119 3.9 76.3 114.5#
121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 7.944 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.00 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

OR-03-052820

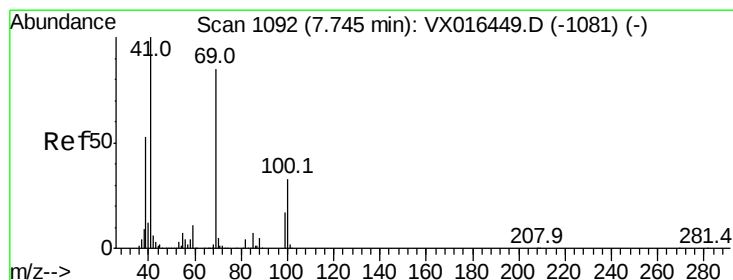
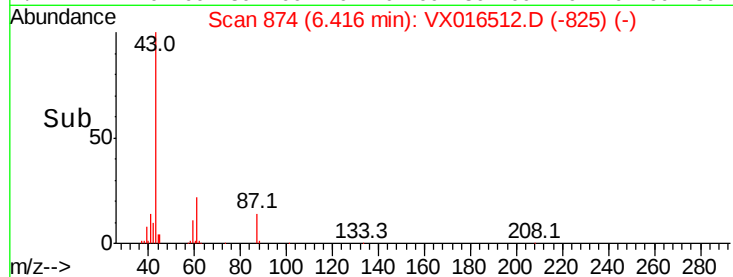
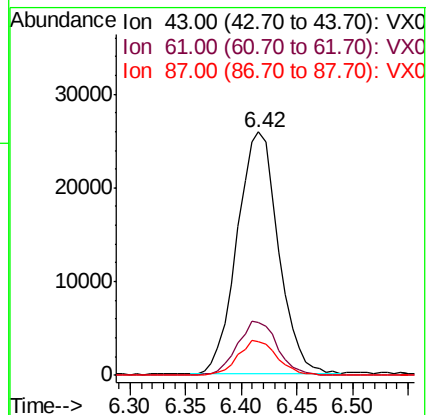
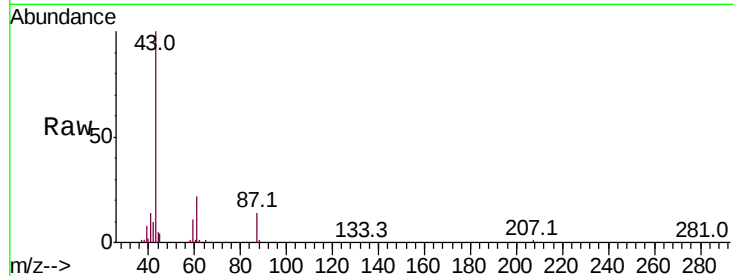
Tot Ion: 43 Resp: 66444

Ion Ratio Lower Upper

43 100

61 21.7 16.8 25.2

87 13.8 11.2 16.8



#48

Methyl methacrylate

Concen: 1.232 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

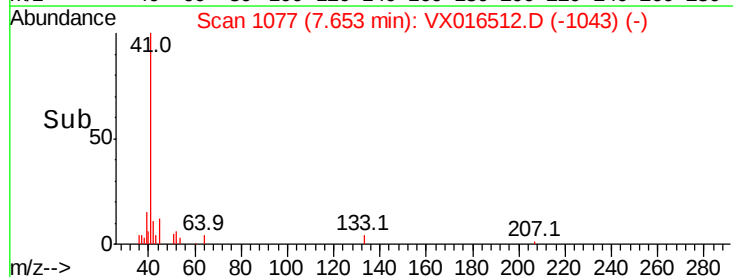
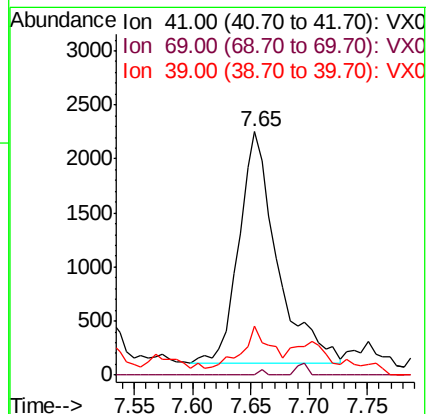
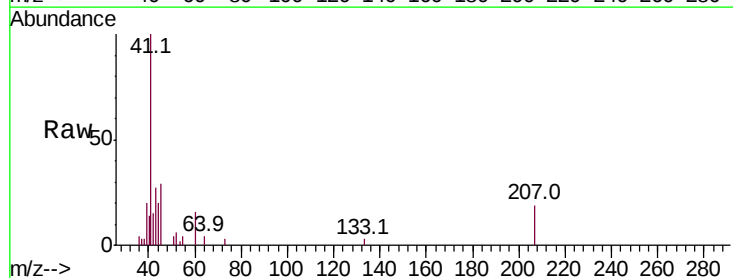
Tgt Ion: 41 Resp: 4932

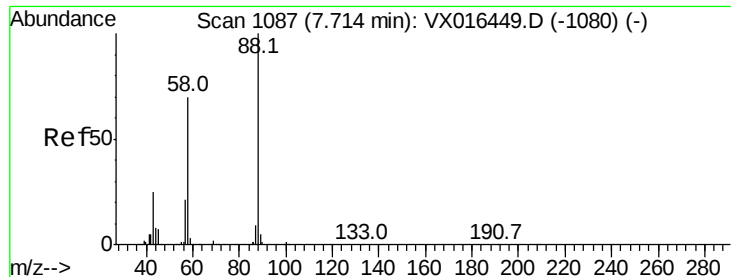
Ion Ratio Lower Upper

41 100

69 0.4 68.6 102.8#

39 0.0 42.4 63.6#





#49

1,4-Dioxane

Concen: 0.245 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

OR-03-052820

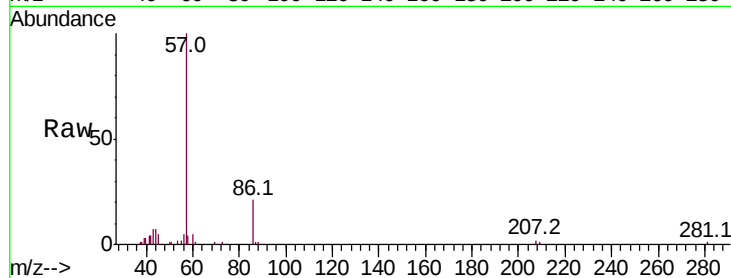
Tot Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

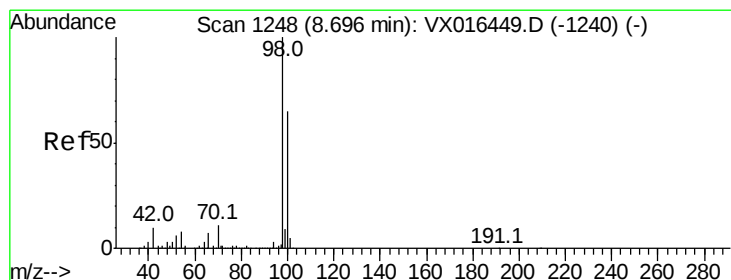
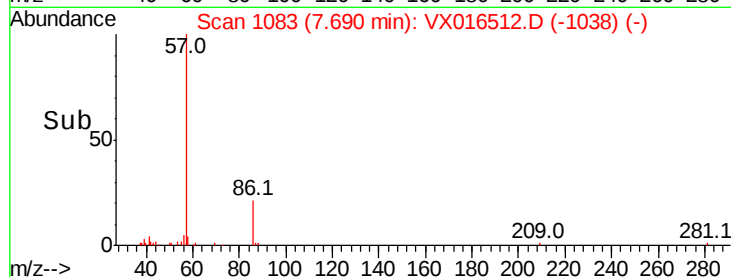
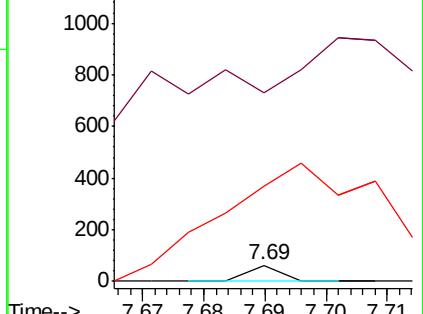
58 3760.9 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.897 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016512.D

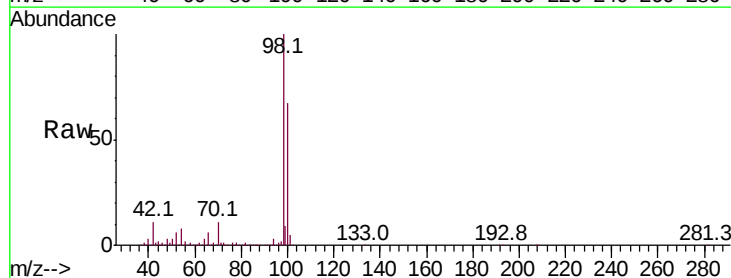
Acq: 29 May 2020 15:40

Tgt Ion: 98 Resp: 586694

Ion Ratio Lower Upper

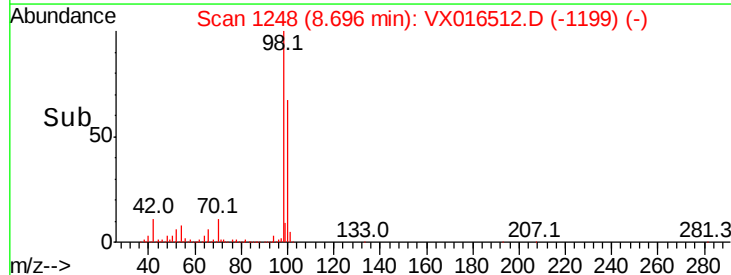
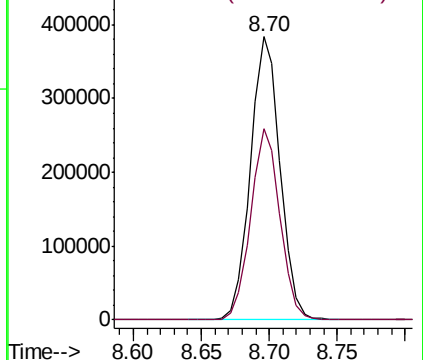
98 100

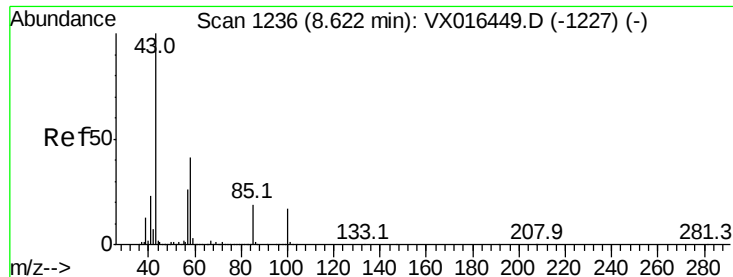
100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 12.343 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

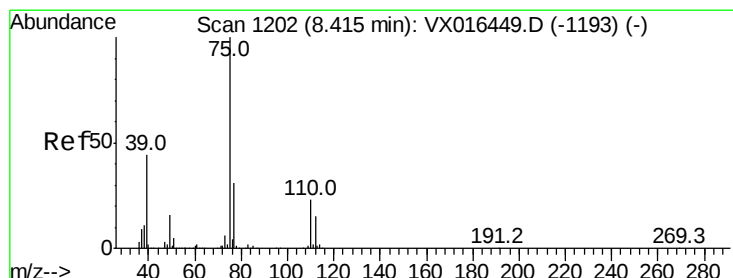
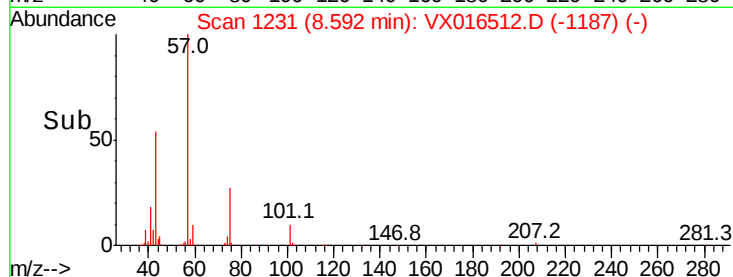
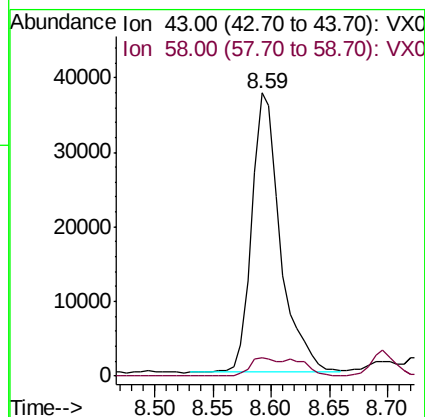
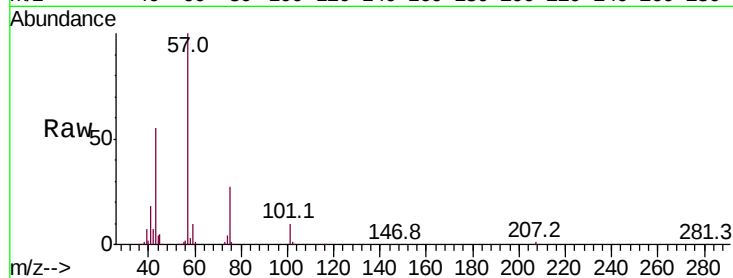
OR-03-052820

Tot Ion: 43 Resp: 64280

Ion Ratio Lower Upper

43 100

58 7.1 33.0 49.6#



#54

cis-1,3-Dichloropropene

Concen: 5.221 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

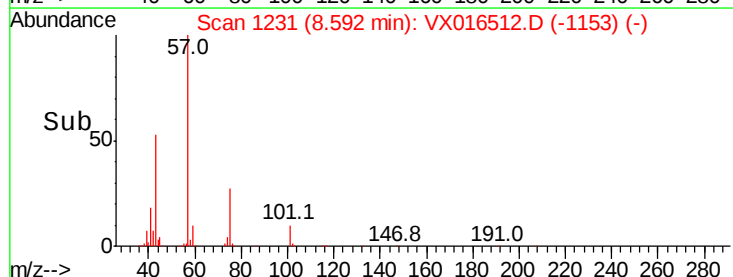
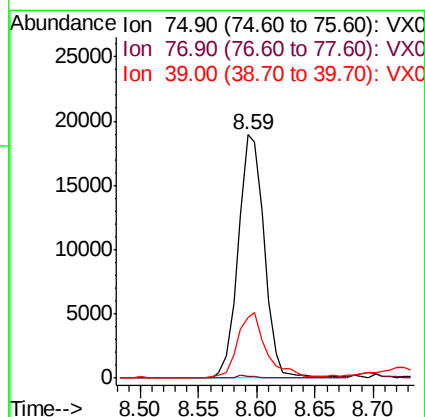
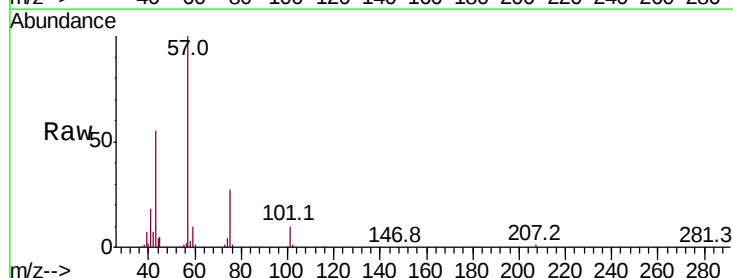
Tgt Ion: 75 Resp: 29590

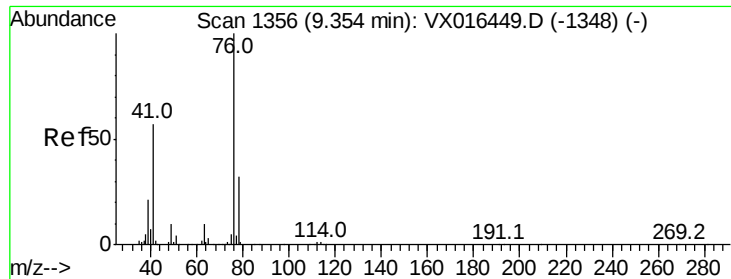
Ion Ratio Lower Upper

75 100

77 0.8 24.6 36.8#

39 24.9 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 0.864 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

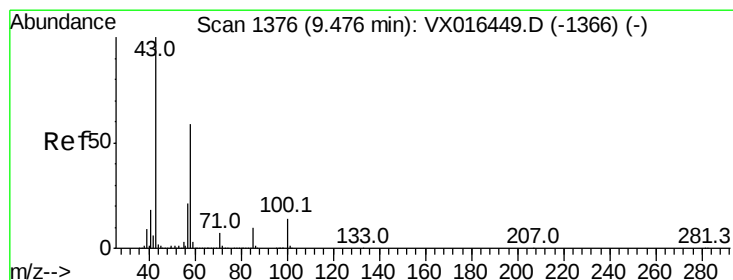
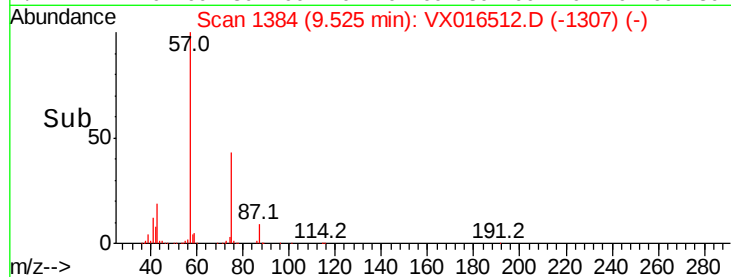
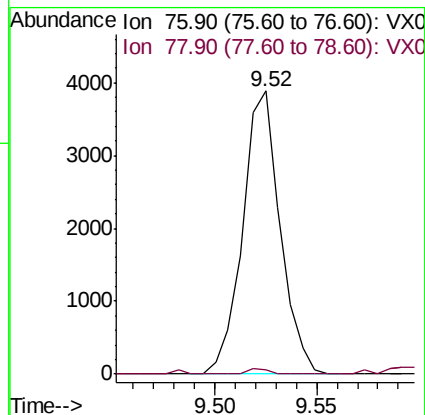
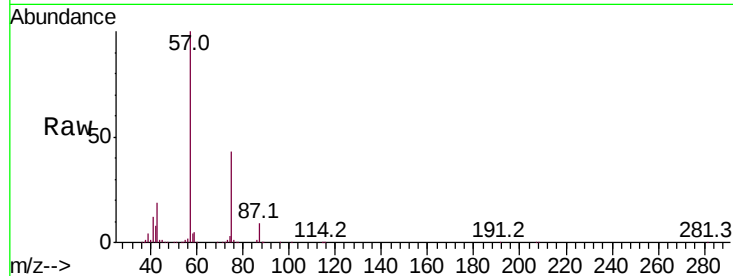
OR-03-052820

Tot Ion: 76 Resp: 4947

Ion Ratio Lower Upper

76 100

78 1.0 26.2 39.4#



#59

2-Hexanone

Concen: 16.123 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016512.D

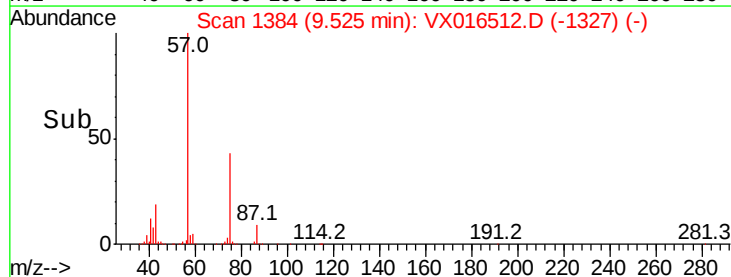
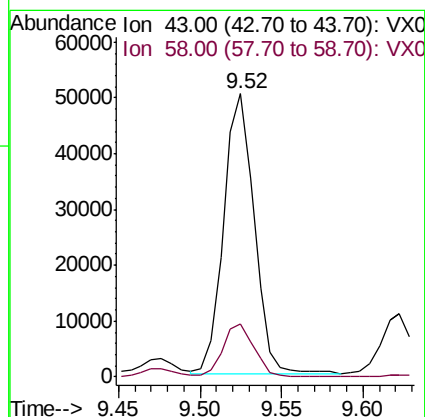
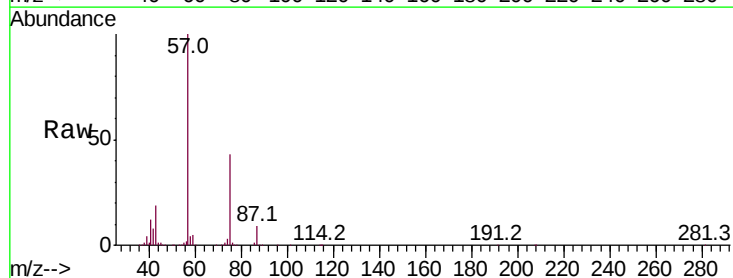
Acq: 29 May 2020 15:40

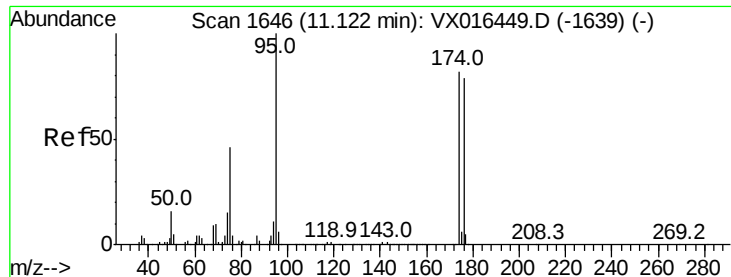
Tgt Ion: 43 Resp: 65294

Ion Ratio Lower Upper

43 100

58 19.7 28.8 86.4#

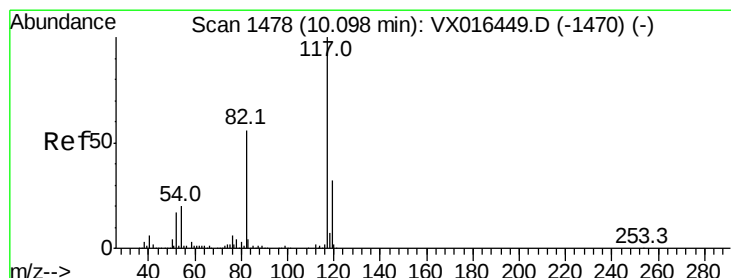
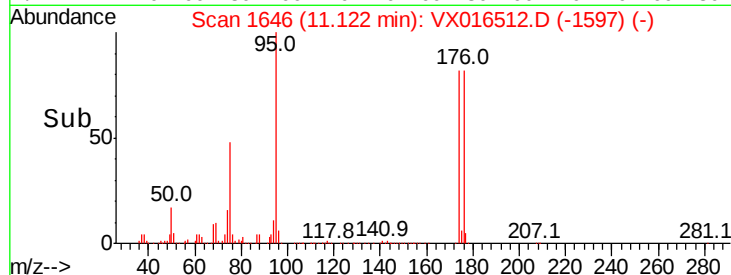
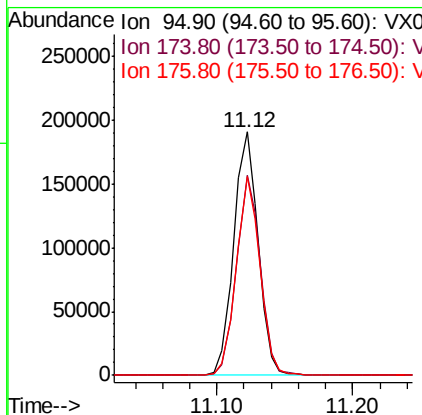
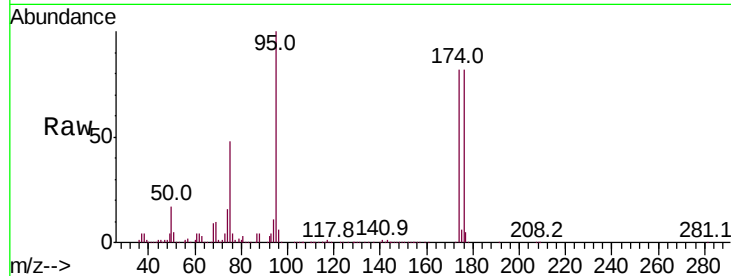




#62
4-Bromofluorobenzene
Concen: 54.308 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

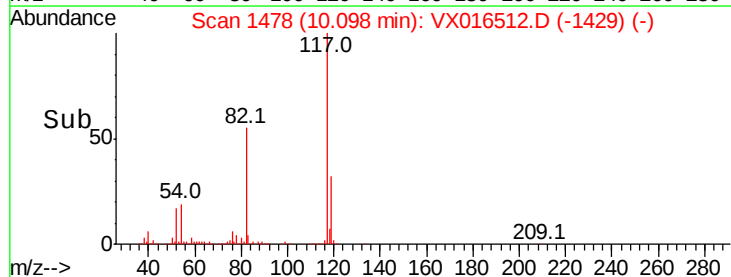
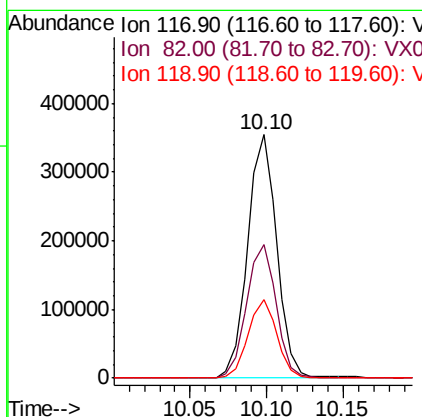
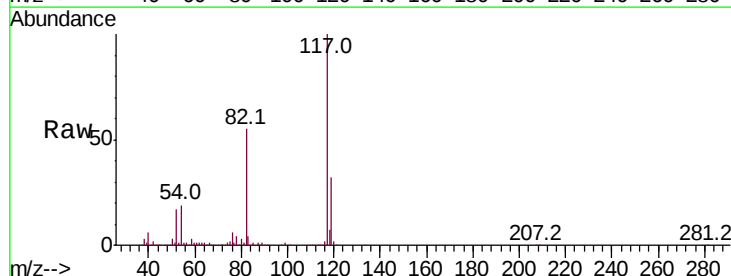
Instrument :
MSVOA_X
ClientSampleId :
OR-03-052820

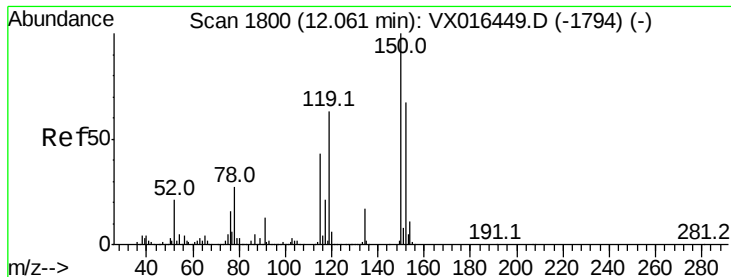
Tot Ion: 95 Resp: 237227
Ion Ratio Lower Upper
95 100
174 80.7 0.0 163.0
176 79.4 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016512.D
Acq: 29 May 2020 15:40

Tgt Ion: 117 Resp: 469232
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.6
119 32.1 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

OR-03-052820

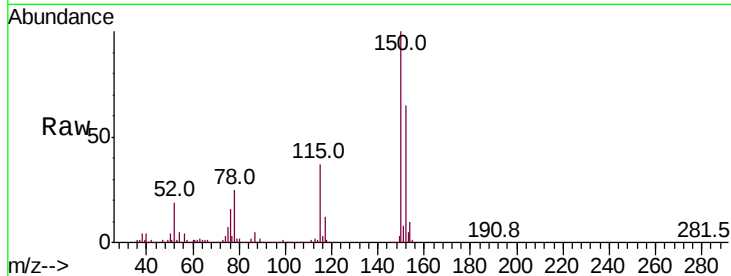
Tot Ion:152 Resp: 231130

Ion Ratio Lower Upper

152 100

115 58.8 39.9 119.6

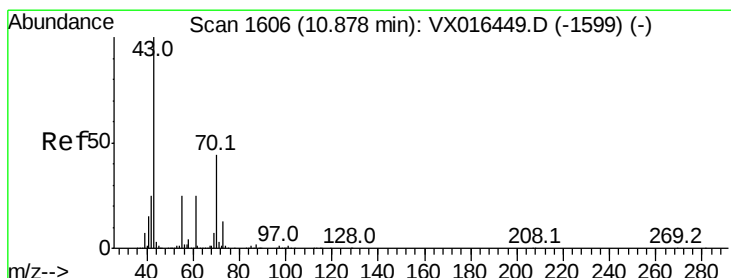
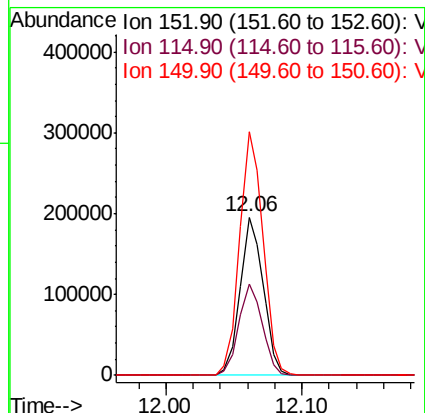
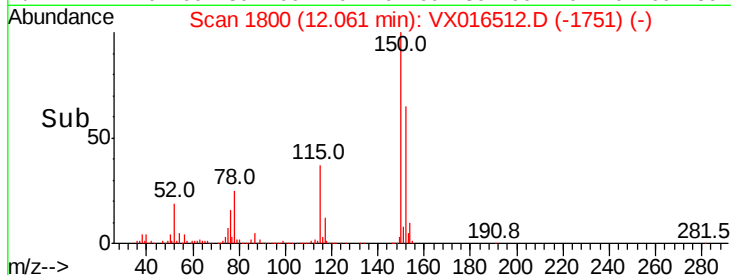
150 156.1 0.0 341.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.647 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Tgt Ion: 43 Resp: 4765

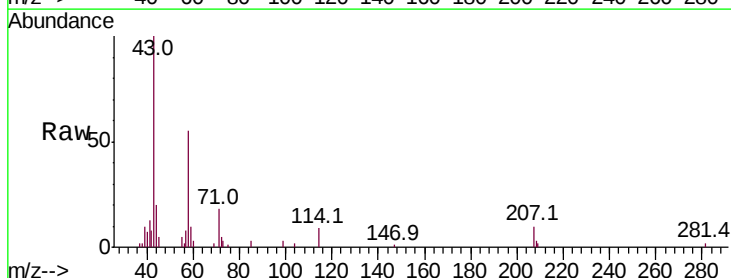
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 11.5 20.2 30.4#

61 0.0 20.3 30.5#

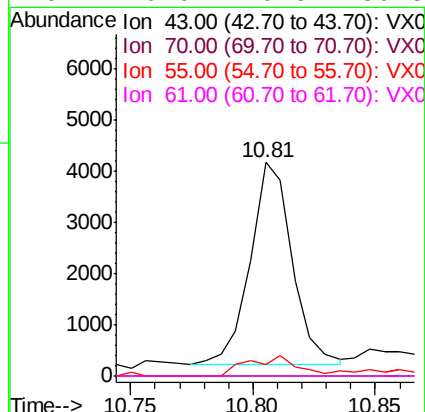
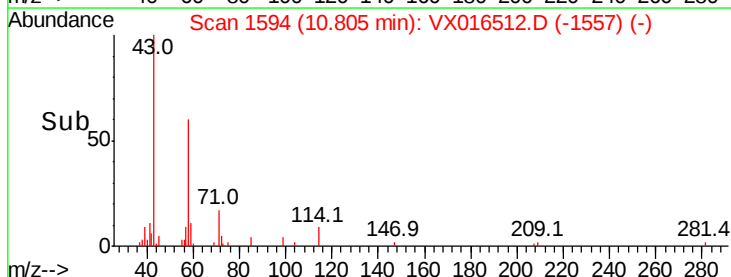


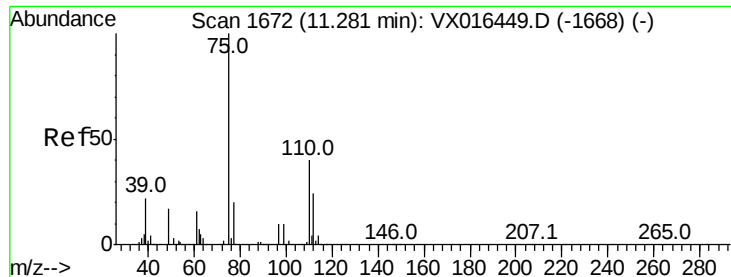
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.693 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

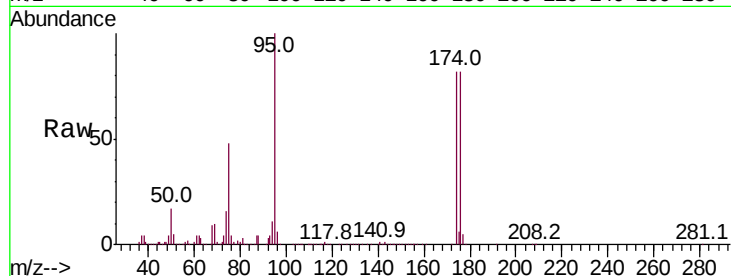
OR-03-052820

Tot Ion: 75 Resp: 115287

Ion Ratio Lower Upper

75 100

77 1.3 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

60000

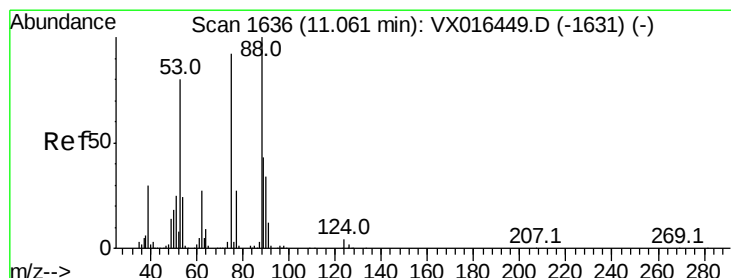
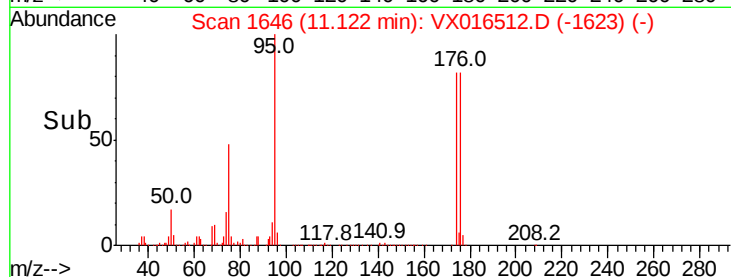
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 55.821 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016512.D

Acq: 29 May 2020 15:40

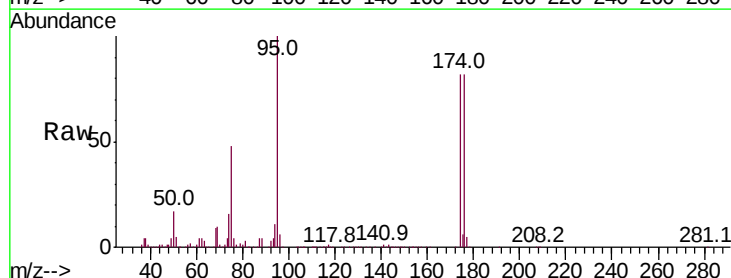
Tgt Ion: 75 Resp: 115287

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

120000

100000

80000

60000

40000

20000

0

11.10 11.20

Time-->

