

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015302.D
 Acq On : 16 Mar 2020 18:13
 Operator : JC/SP
 Sample : L1942-27
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5-DA

Quant Time: Mar 17 07:43:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	309081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	520978	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	513409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	261992	50.00	ug/l	0.00

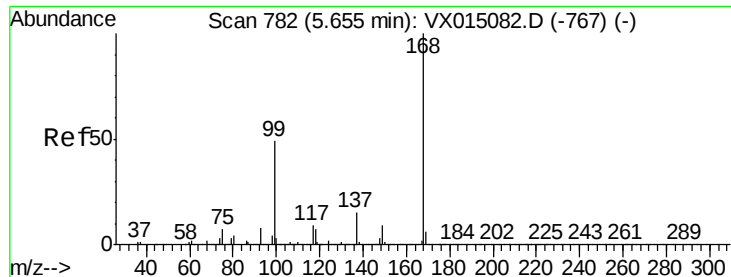
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	179853	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
35) Dibromofluoromethane	5.49	113	155652	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
50) Toluene-d8	8.71	98	643603	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.13	95	237500	53.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.52%	

Target Compounds

						Qvalue
5) Bromomethane	1.66	94	585	0.245	ug/l #	18
8) Diethyl Ether	2.17	74	667	0.318	ug/l	78
11) Tert butyl alcohol	3.00	59	1597	2.510	ug/l #	72
13) Acrolein	2.28	56	221	0.370	ug/l #	16
16) Acetone	2.43	43	9321	6.277	ug/l	97
18) Methyl Acetate	2.76	43	2227	0.613	ug/l #	84
20) Methylene Chloride	2.85	84	11041	3.177	ug/l	97
25) 2-Butanone	4.68	43	2462	1.132	ug/l #	89
29) Tetrahydrofuran	5.14	42	478	0.341	ug/l #	80
36) 1,1-Dichloropropene	5.65	75	21246	4.411	ug/l #	51
38) Carbon Tetrachloride	5.65	117	27234	5.991	ug/l #	18
43) Isopropyl Acetate	6.43	43	78176	9.947	ug/l	100
44) Trichloroethene	7.21	130	6818	1.713	ug/l	93
48) Methyl methacrylate	7.67	41	4324	1.081	ug/l #	19
49) 1,4-Dioxane	7.76	88	249	2.879	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	76229	16.404	ug/l #	47
54) cis-1,3-Dichloropropene	8.61	75	35400	6.173	ug/l #	56
59) 2-Hexanone	9.54	43	78852	22.894	ug/l #	50
74) N-amyl acetate	10.82	43	3498	0.496	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	114479	21.906	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	114479	62.169	ug/l #	11
95) Naphthalene	13.82	128	946	1.473	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

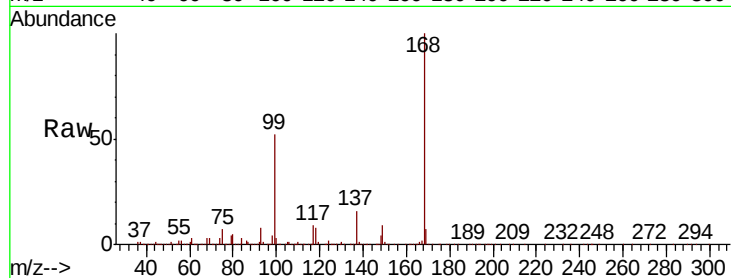
TP-5-DA

Tot Ion:168 Resp: 309081

Ion Ratio Lower Upper

168 100

99 51.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

120000

100000

80000

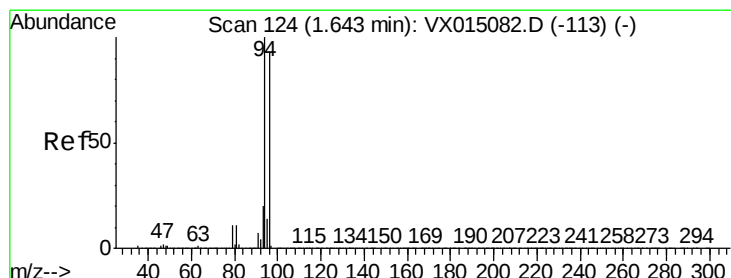
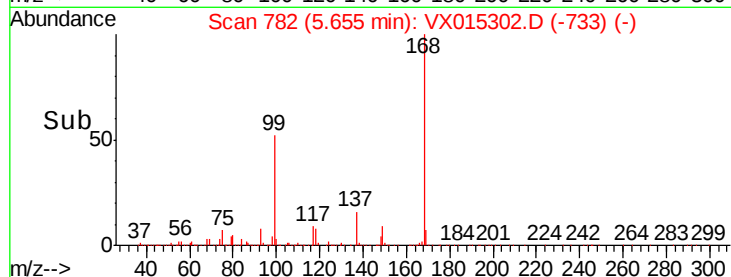
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.245 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX015302.D

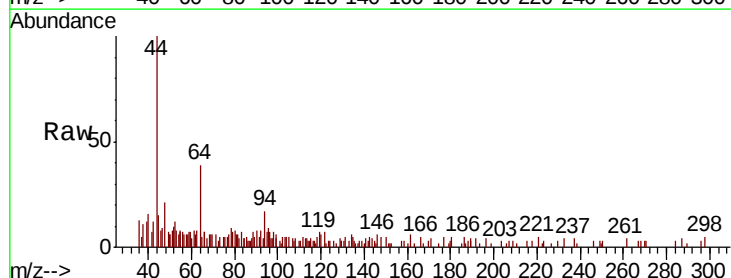
Acq: 16 Mar 2020 18:13

Tgt Ion: 94 Resp: 585

Ion Ratio Lower Upper

94 100

96 14.3 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

400

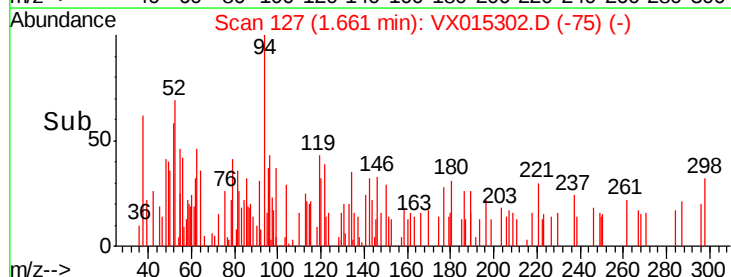
300

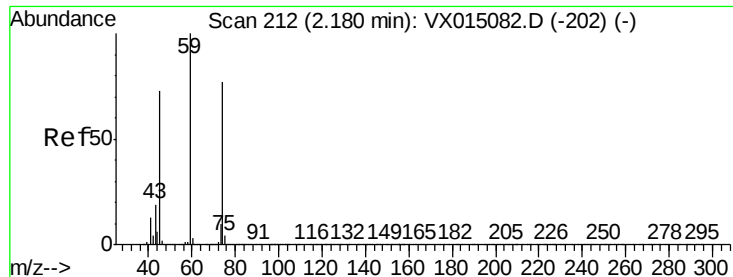
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.318 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

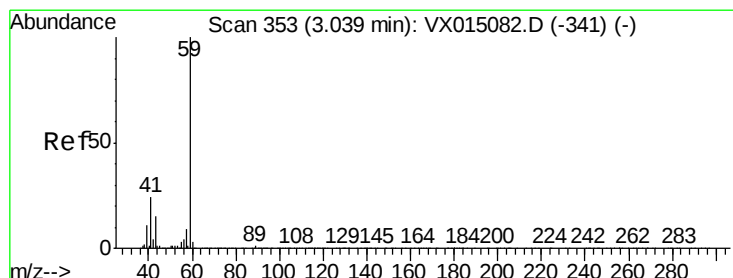
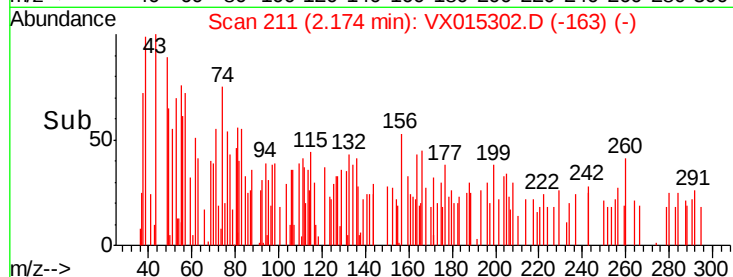
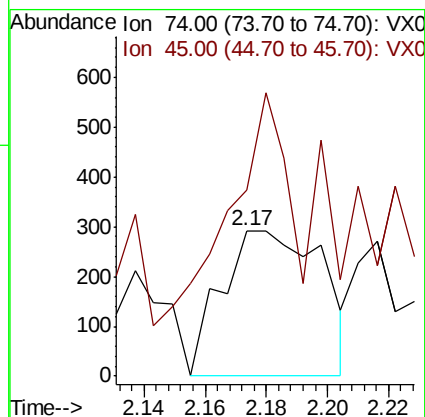
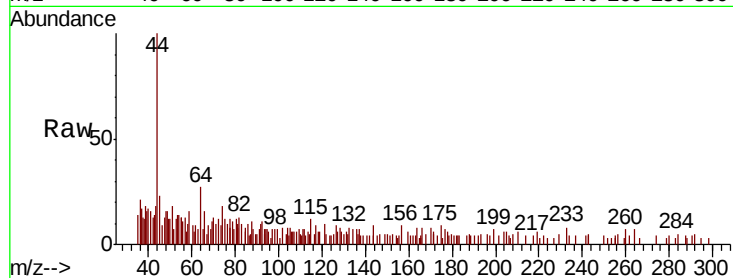
TP-5-DA

Tot Ion: 74 Resp: 667

Ion Ratio Lower Upper

74 100

45 77.1 49.2 147.6



#11

Tert butyl alcohol

Concen: 2.510 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX015302.D

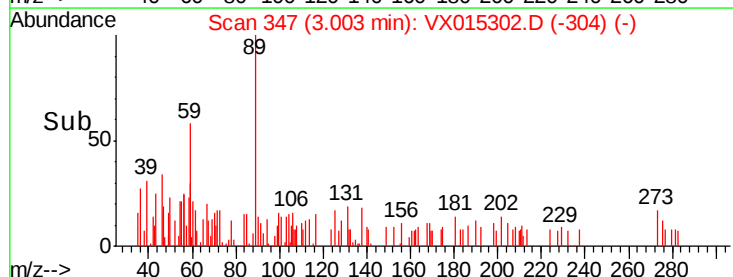
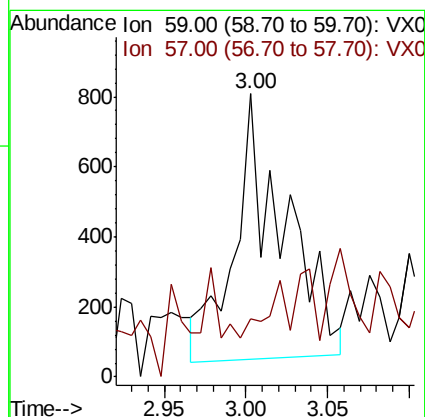
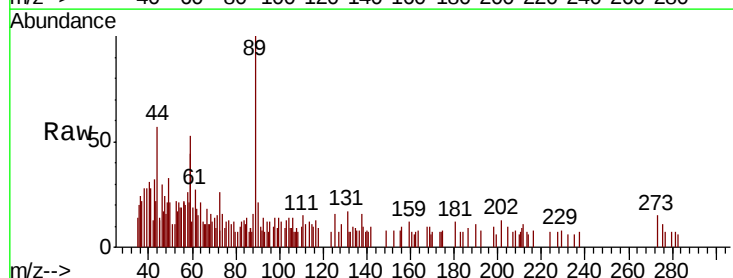
Acq: 16 Mar 2020 18:13

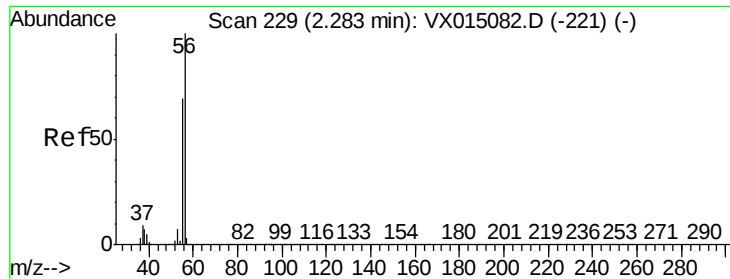
Tgt Ion: 59 Resp: 1597

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

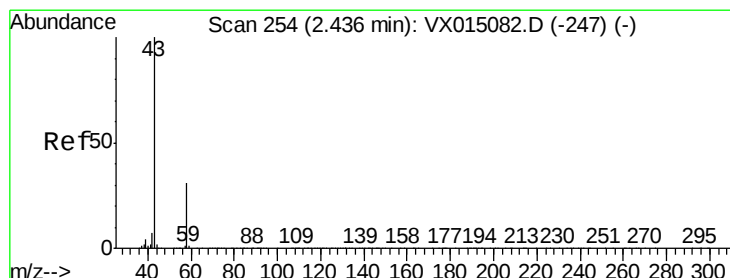
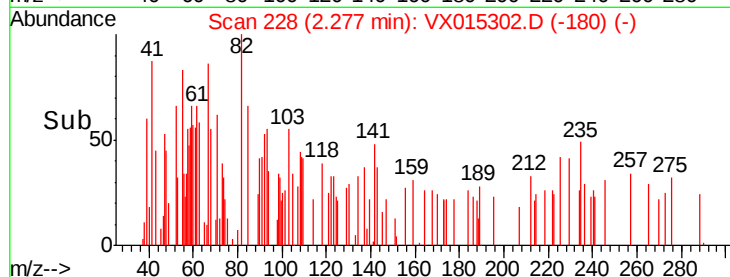
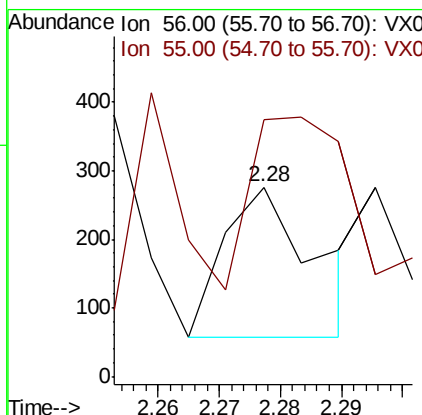
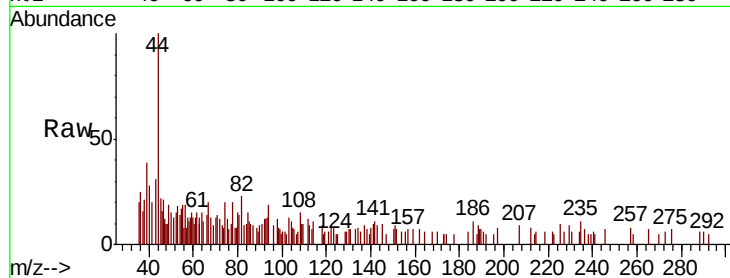




#13
Acrolein
Concen: 0.370 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

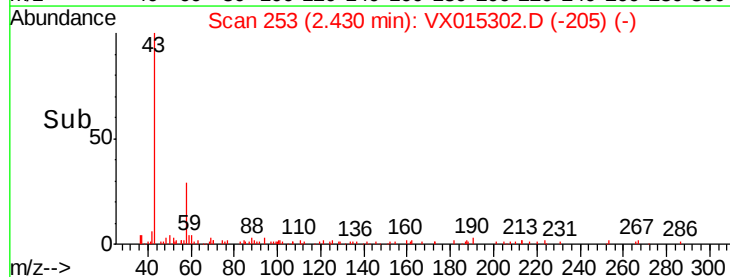
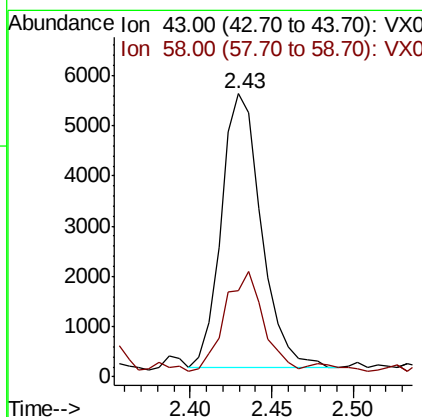
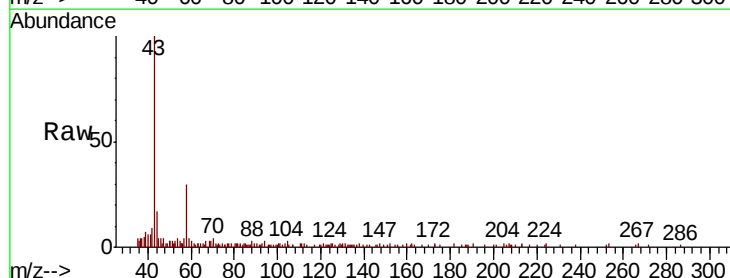
Instrument :
MSVOA_X
ClientSampled :
TP-5-DA

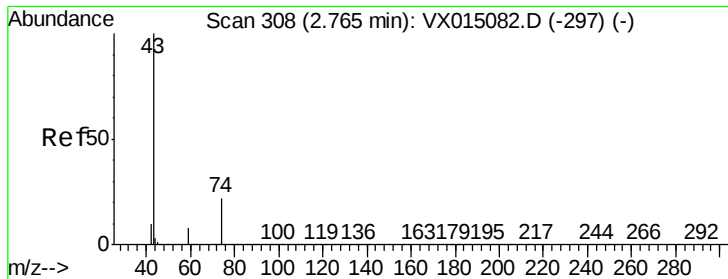
Tot Ion: 56 Resp: 221
Ion Ratio Lower Upper
56 100
55 137.6 55.4 83.0#



#16
Acetone
Concen: 6.277 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion: 43 Resp: 9321
Ion Ratio Lower Upper
43 100
58 29.1 24.8 37.2

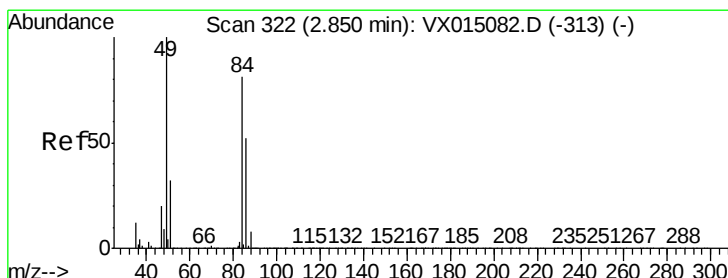
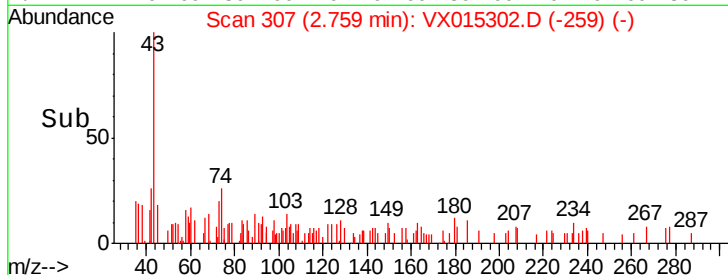
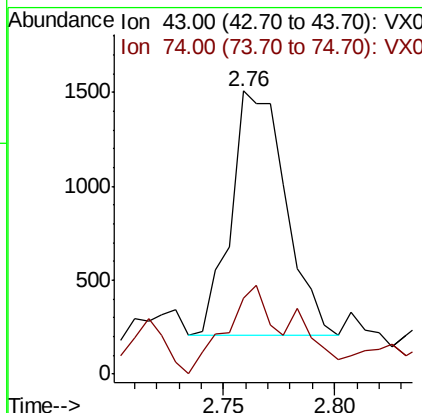
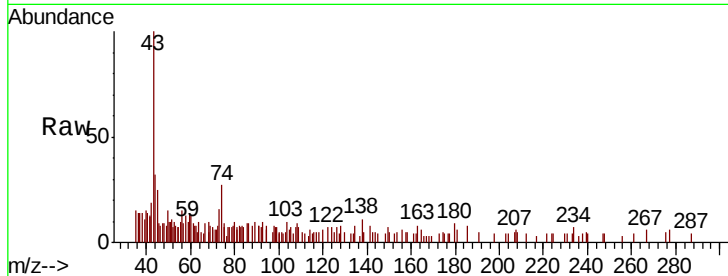




#18
Methyl Acetate
Concen: 0.613 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

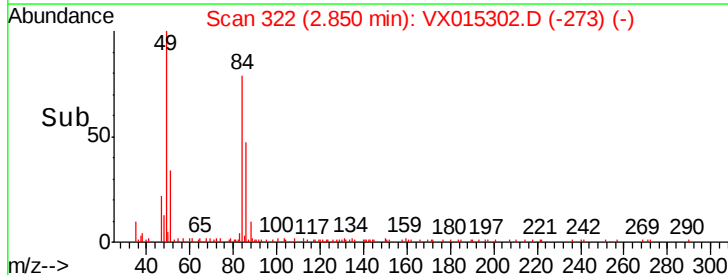
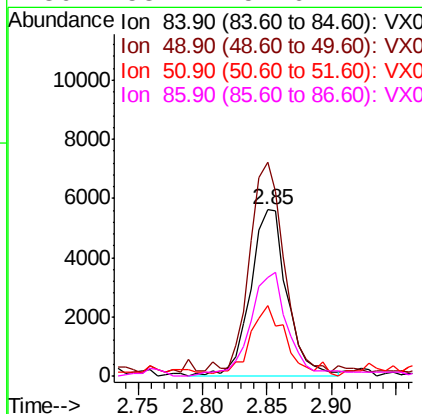
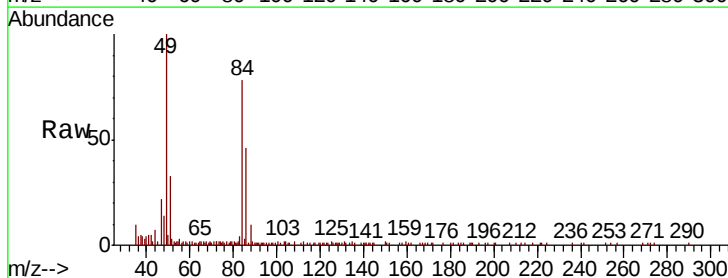
Instrument :
MSVOA_X
ClientSampleId :
TP-5-DA

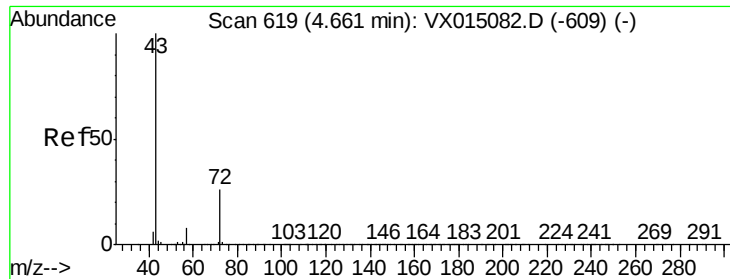
Tot Ion: 43 Resp: 2227
Ion Ratio Lower Upper
43 100
74 31.1 18.8 28.2#



#20
Methylene Chloride
Concen: 3.177 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion: 84 Resp: 11041
Ion Ratio Lower Upper
84 100
49 122.7 99.4 149.2
51 39.8 31.5 47.3
86 58.1 51.6 77.4





#25

2-Butanone

Concen: 1.132 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

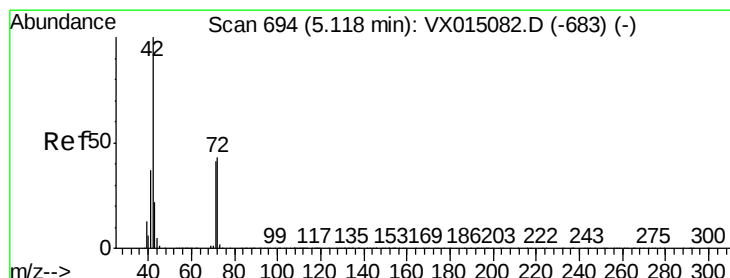
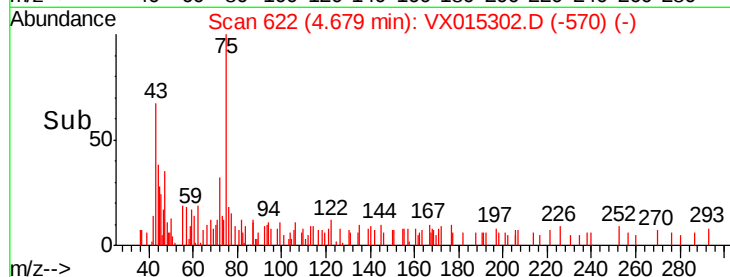
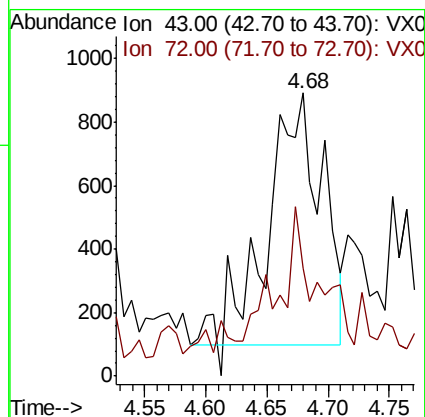
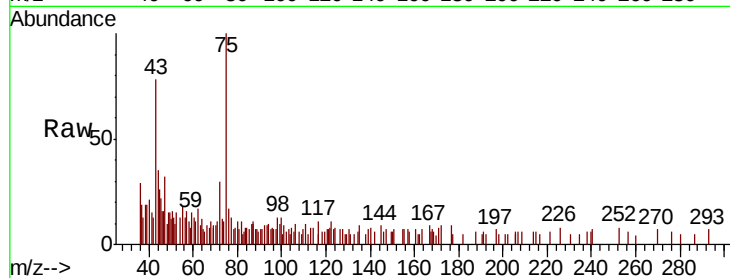
TP-5-DA

Tot Ion: 43 Resp: 2462

Ion Ratio Lower Upper

43 100

72 31.1 20.6 30.8#



#29

Tetrahydrofuran

Concen: 0.341 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

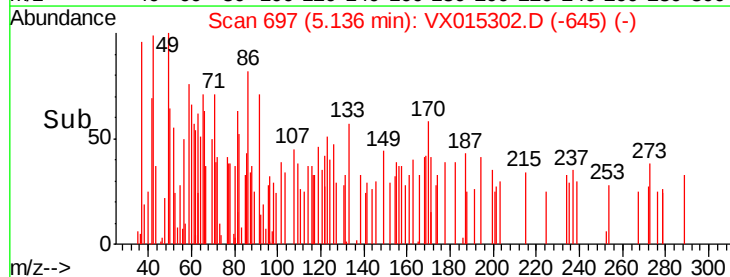
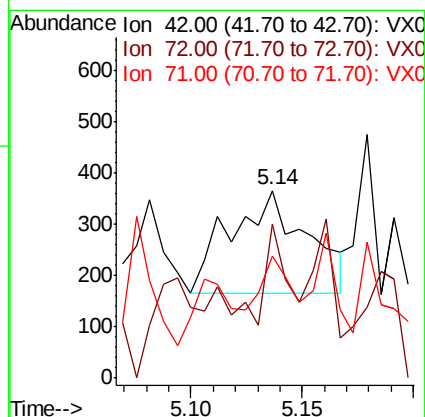
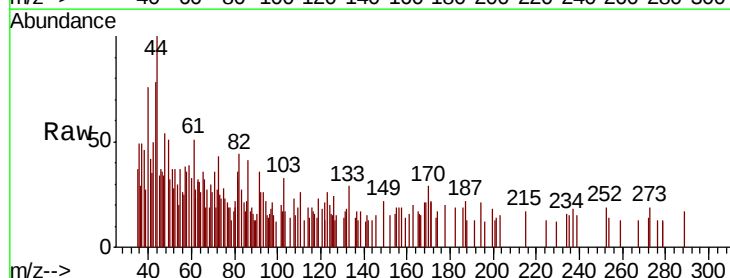
Tgt Ion: 42 Resp: 478

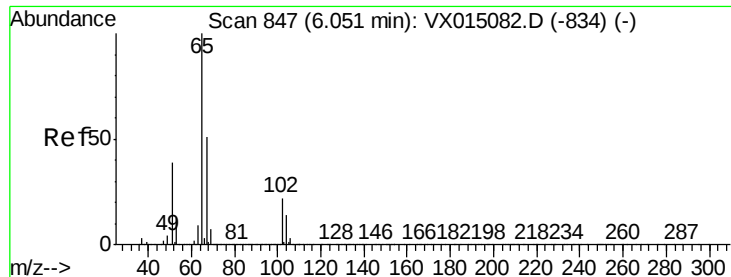
Ion Ratio Lower Upper

42 100

72 28.2 36.4 54.6#

71 33.9 33.3 49.9





#33

1,2-Dichloroethane-d4

Concen: 49.048 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

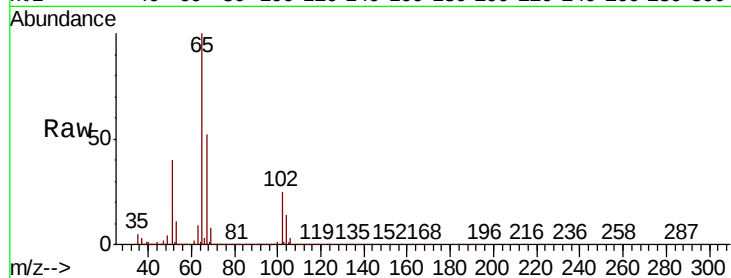
TP-5-DA

Tot Ion: 65 Resp: 179853

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

60000

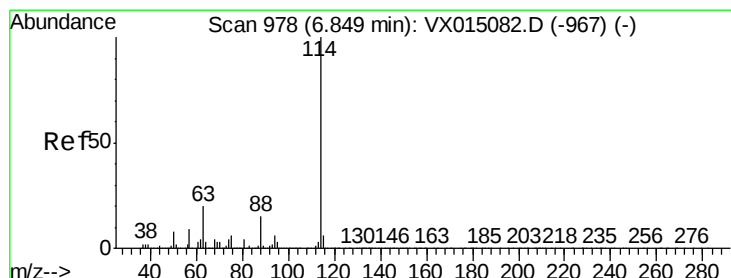
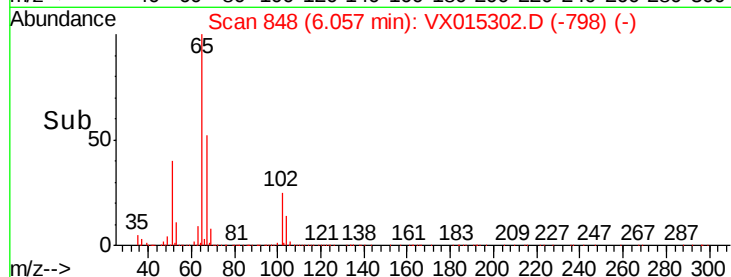
40000

20000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

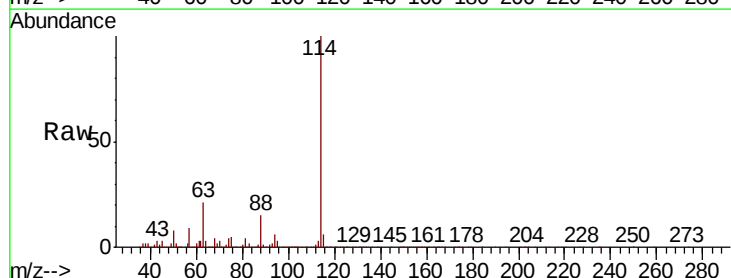
Tgt Ion: 114 Resp: 520978

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.0

88 15.2 0.0 30.6



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

300000

250000

200000

150000

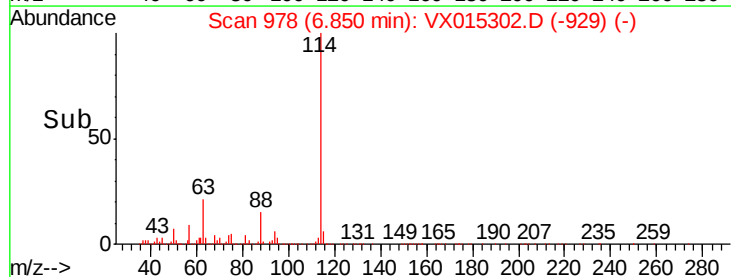
100000

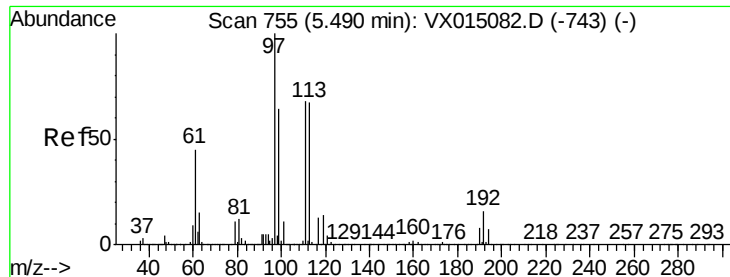
50000

0

Time-->

6.70 6.80 6.90 7.00

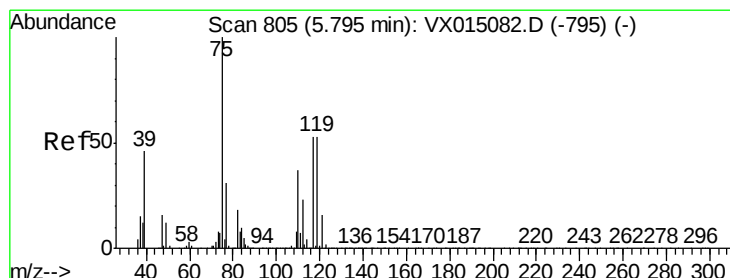
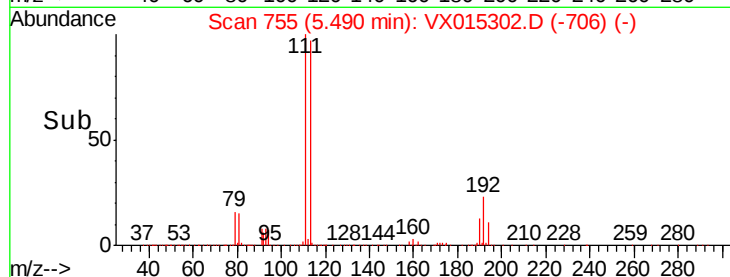
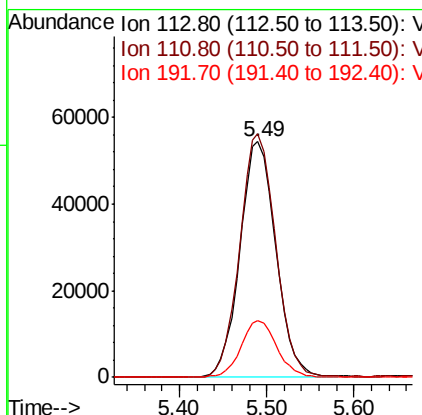
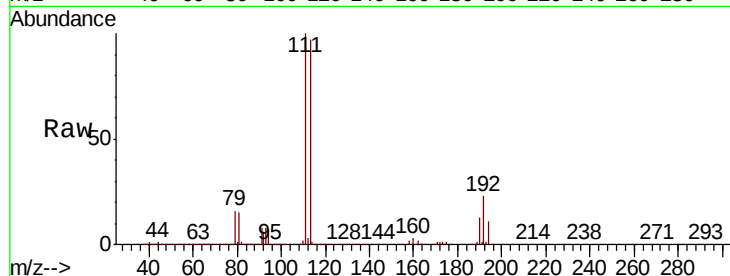




#35
 Dibromofluoromethane
 Concen: 47.358 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX015302.D
 Acq: 16 Mar 2020 18:13

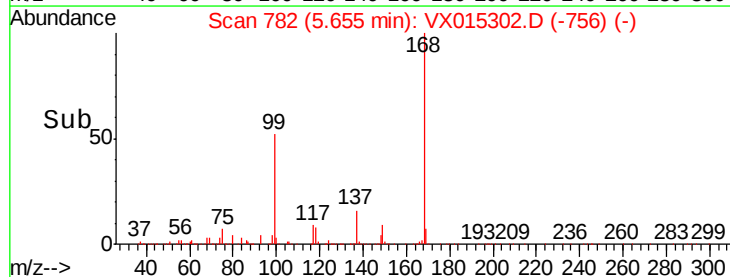
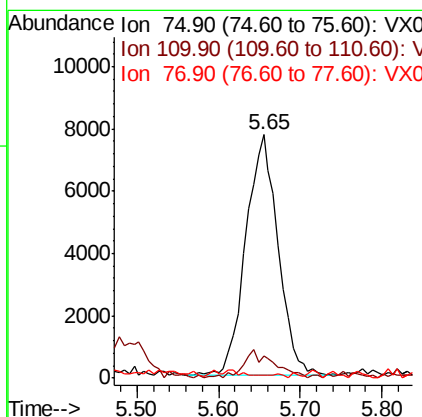
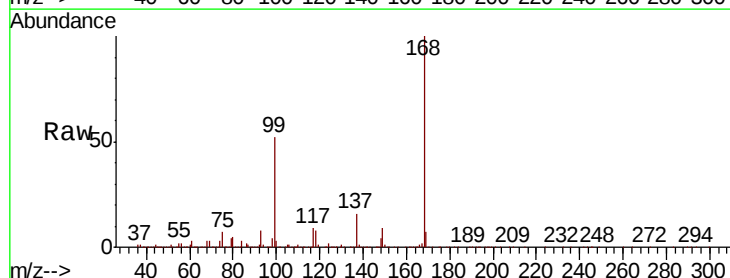
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5-DA

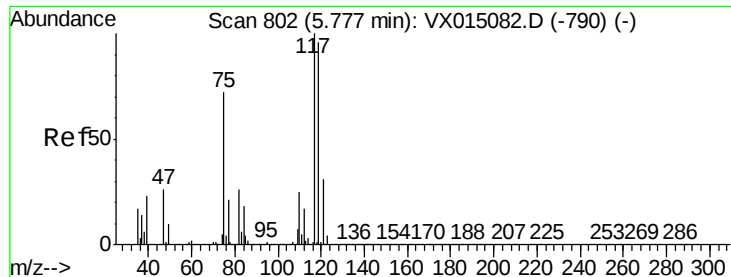
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	24.0	18.6	28.0



#36
 1,1-Dichloropropene
 Concen: 4.411 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX015302.D
 Acq: 16 Mar 2020 18:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	17.9	53.8#
77	0.0	24.8	37.2#

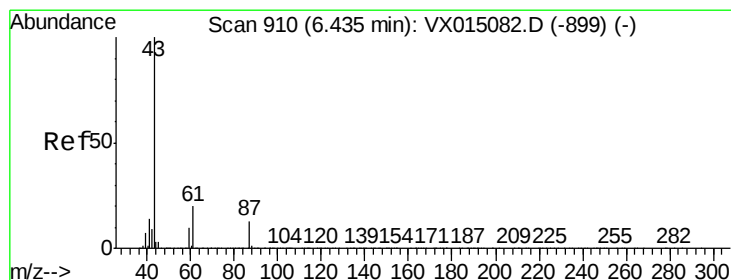
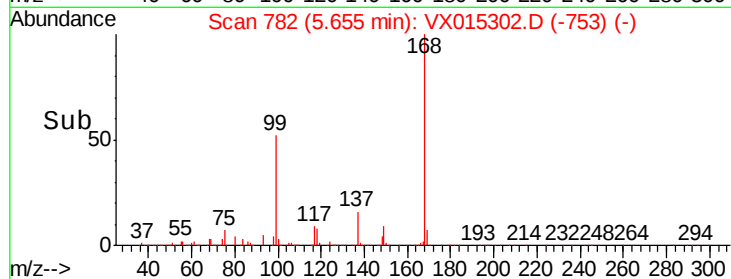
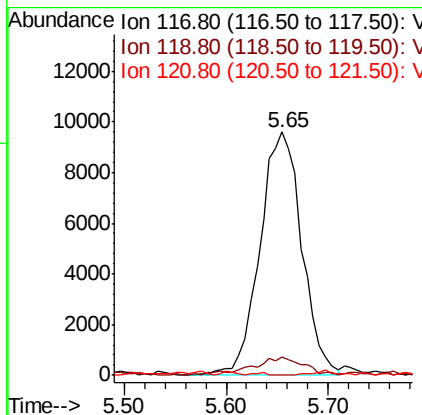
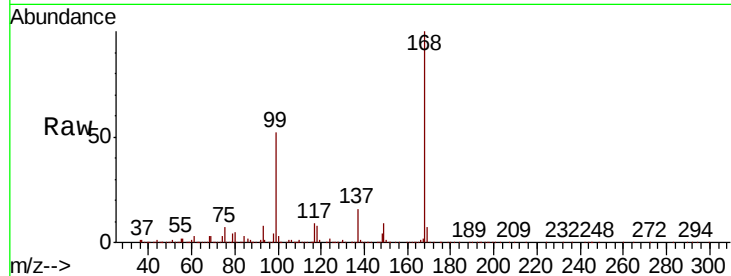




#38
Carbon Tetrachloride
Concen: 5.991 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

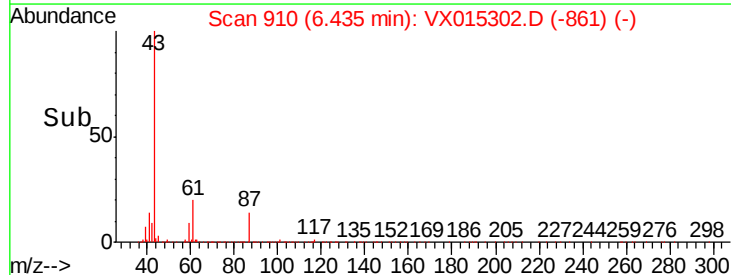
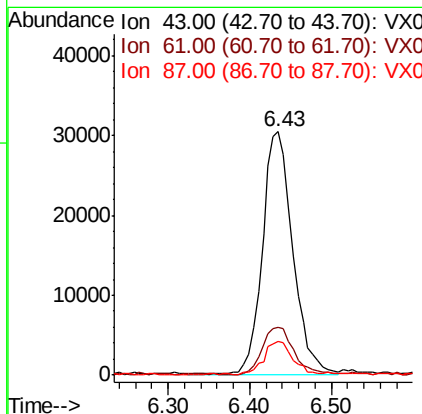
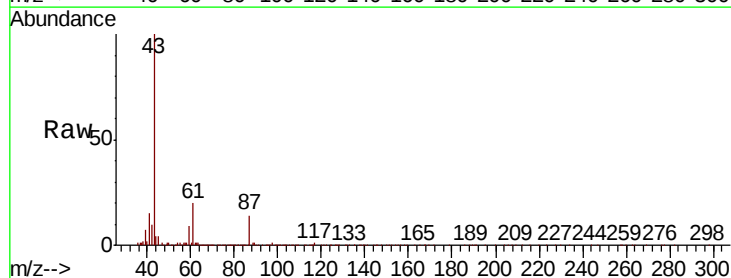
Instrument :
MSVOA_X
ClientSampleId :
TP-5-DA

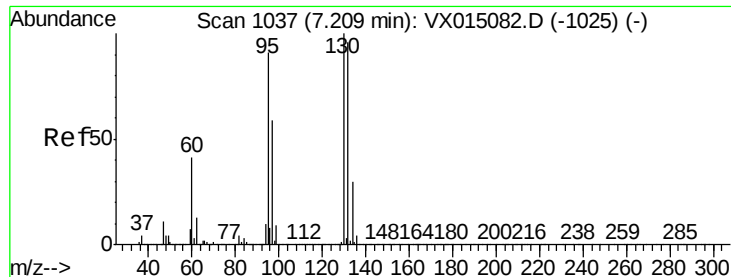
Tot Ion:117 Resp: 27234
Ion Ratio Lower Upper
117 100
119 7.5 76.9 115.3#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 9.947 ug/l
RT: 6.43 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion: 43 Resp: 78176
Ion Ratio Lower Upper
43 100
61 20.0 16.1 24.1
87 13.1 10.6 16.0





#44

Trichloroethene

Concen: 1.713 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

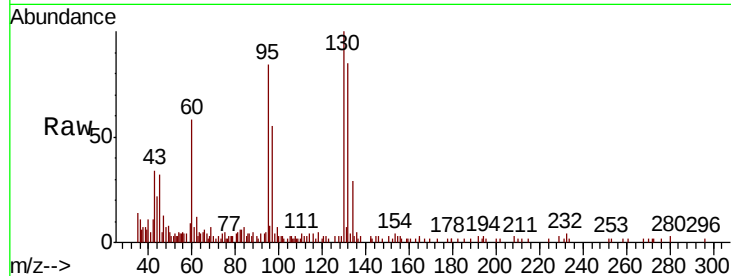
TP-5-DA

Tot Ion:130 Resp: 6818

Ion Ratio Lower Upper

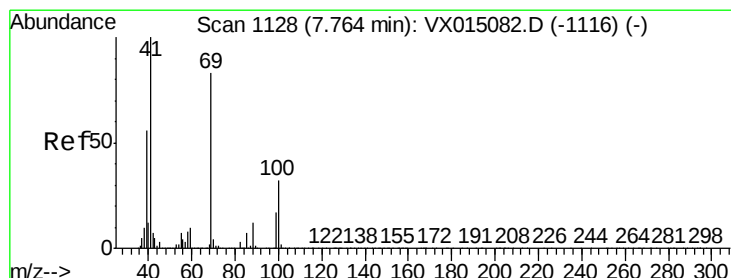
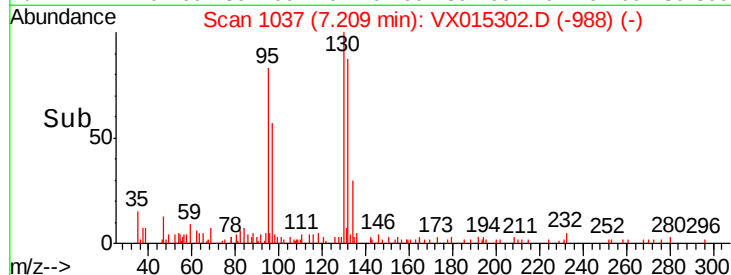
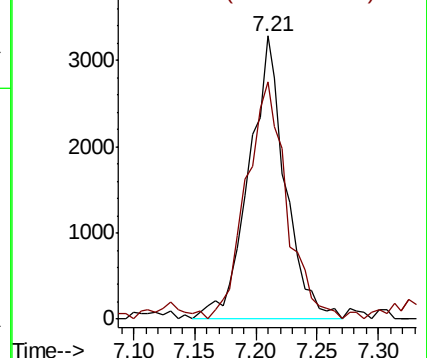
130 100

95 83.7 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.081 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

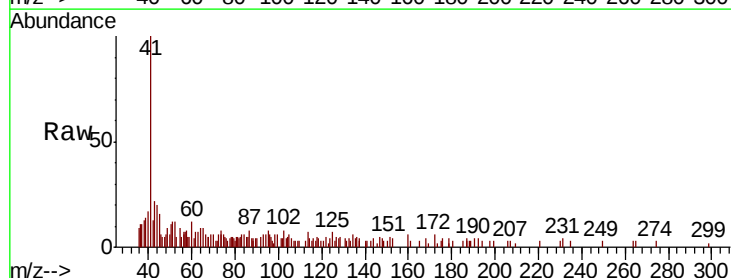
Tgt Ion: 41 Resp: 4324

Ion Ratio Lower Upper

41 100

69 7.2 65.4 98.2#

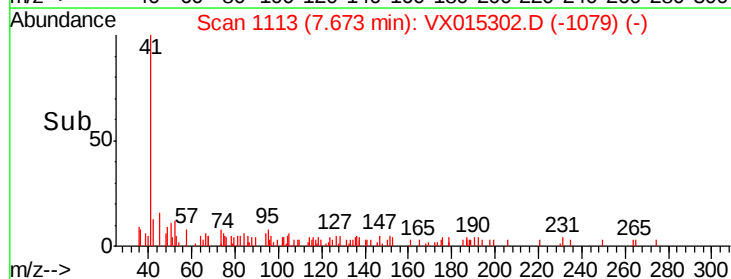
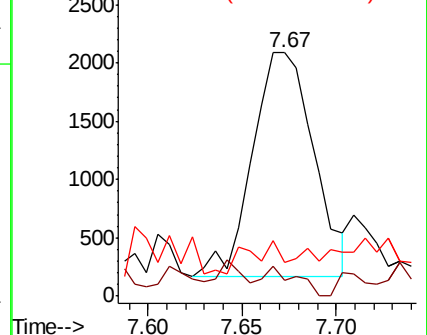
39 0.0 44.6 67.0#

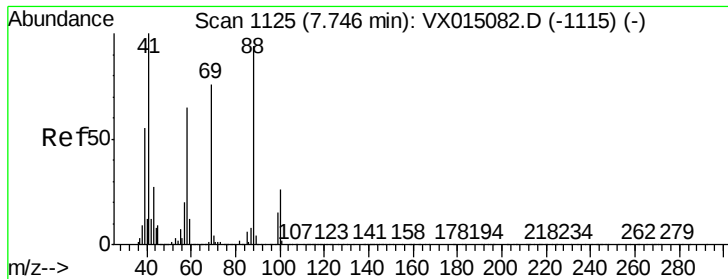


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.879 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

TP-5-DA

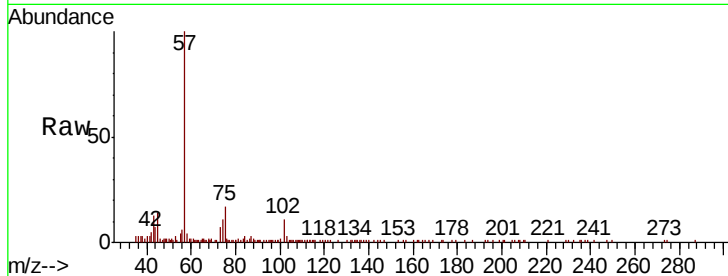
Tot Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

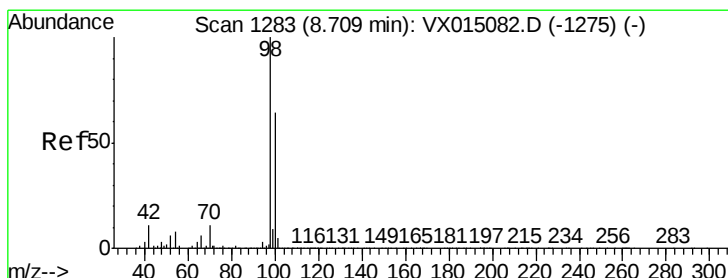
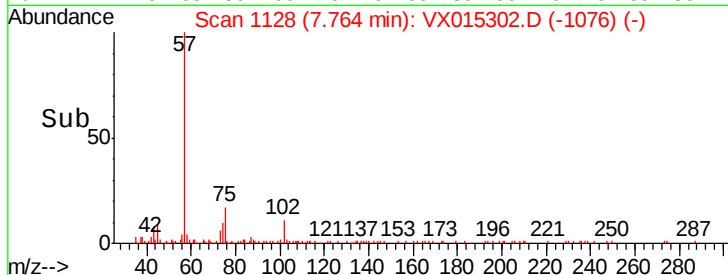
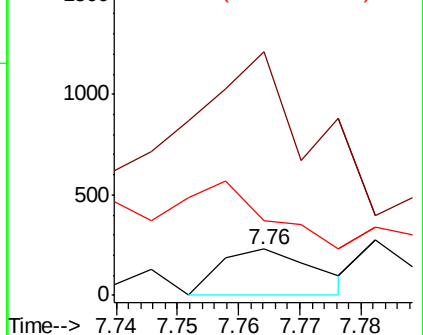
58 207.2 55.6 83.4#



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: 51.480 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015302.D

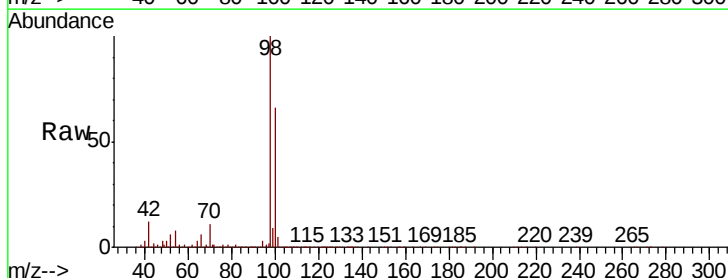
Acq: 16 Mar 2020 18:13

Tgt Ion: 98 Resp: 643603

Ion Ratio Lower Upper

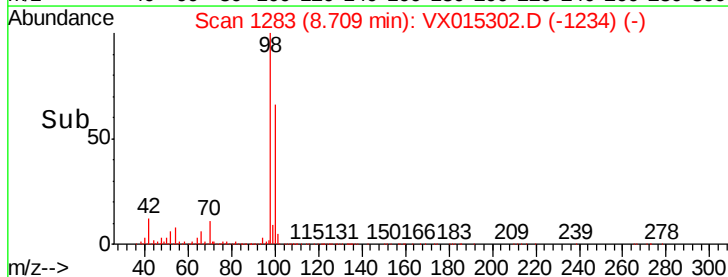
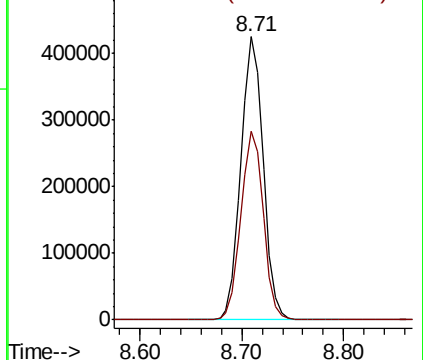
98 100

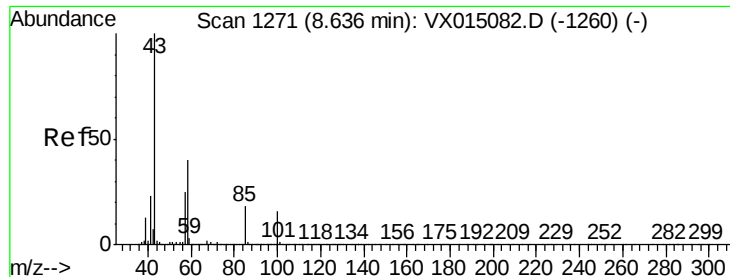
100 66.7 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

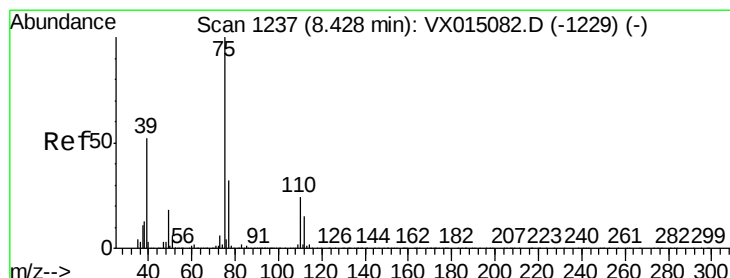
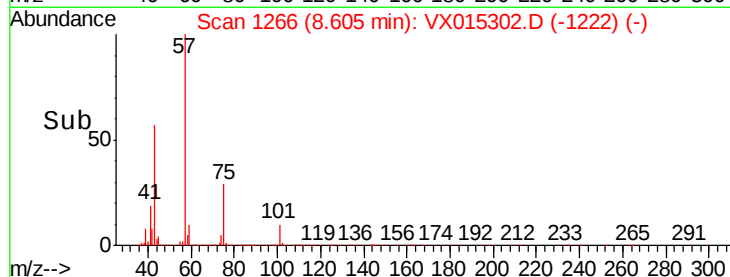
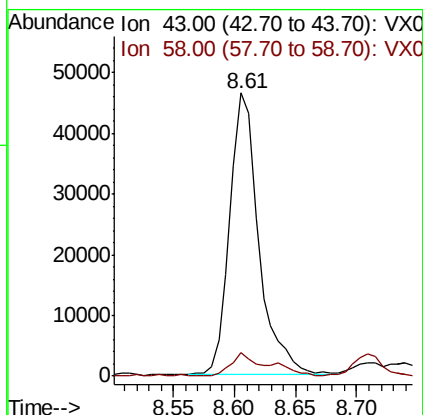
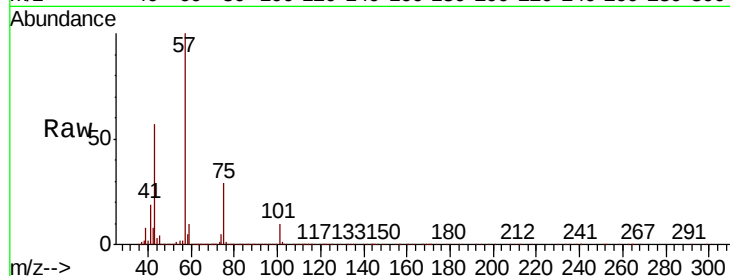




#51
4-Methyl-2-Pentanone
Concen: 16.404 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. -0.03 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

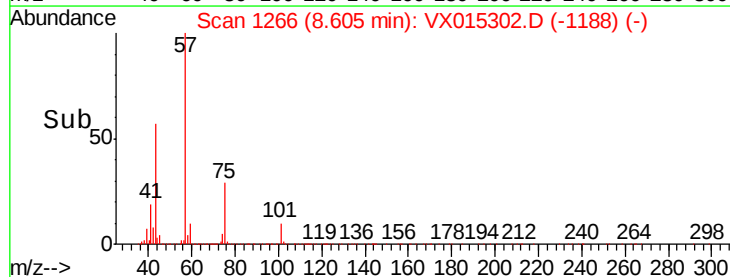
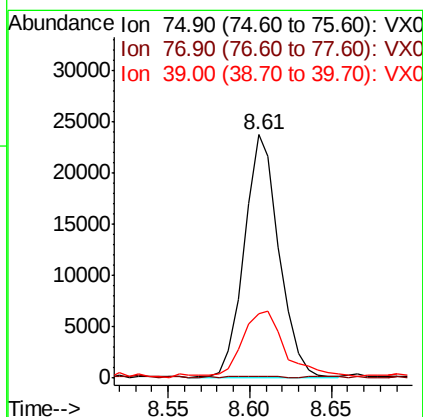
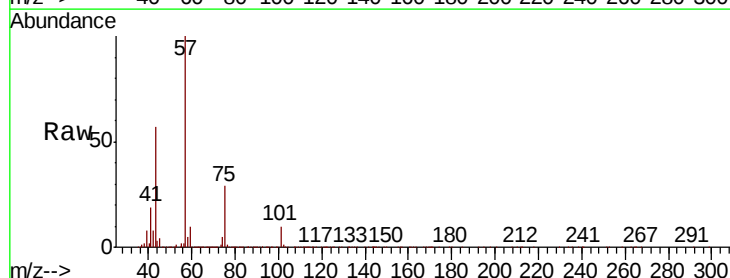
Instrument :
MSVOA_X
ClientSampled :
TP-5-DA

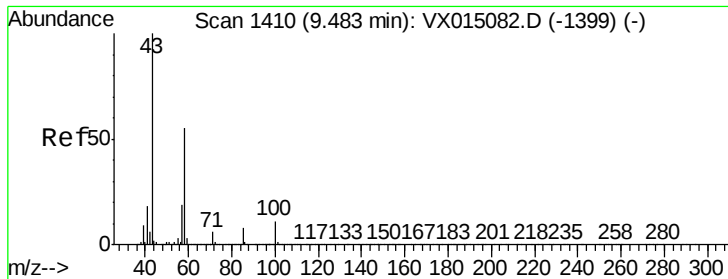
Tot Ion: 43 Resp: 76229
Ion Ratio Lower Upper
43 100
58 6.7 31.6 47.4#



#54
cis-1,3-Dichloropropene
Concen: 6.173 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. 0.18 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion: 75 Resp: 35400
Ion Ratio Lower Upper
75 100
77 0.7 25.8 38.6#
39 25.6 41.3 61.9#

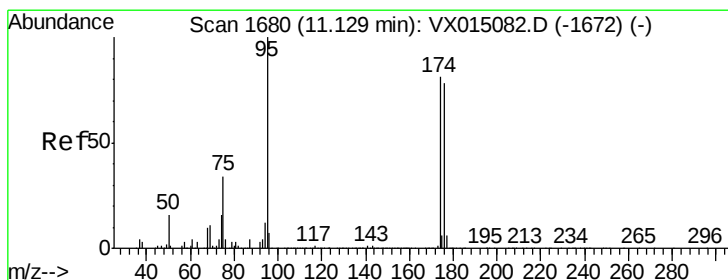
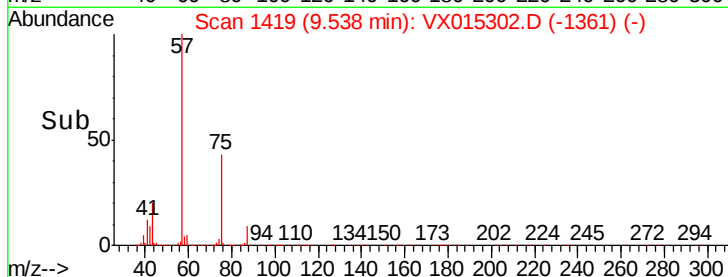
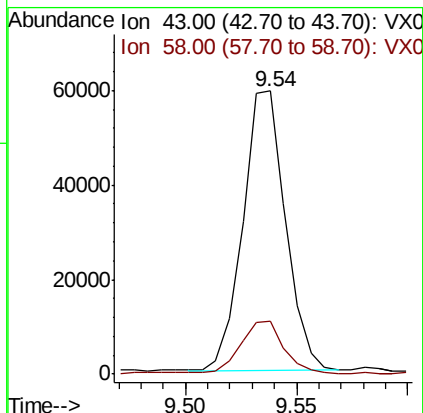
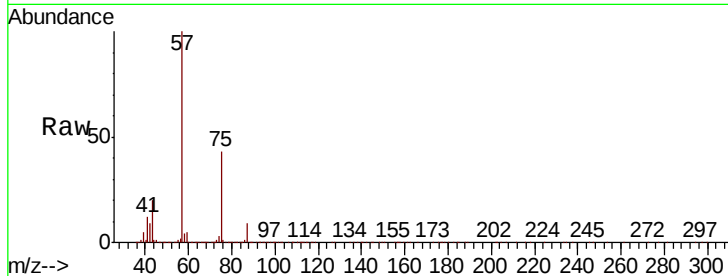




#59
2-Hexanone
Concen: 22.894 ug/l
RT: 9.54 min Scan# 1419
Delta R.T. 0.05 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

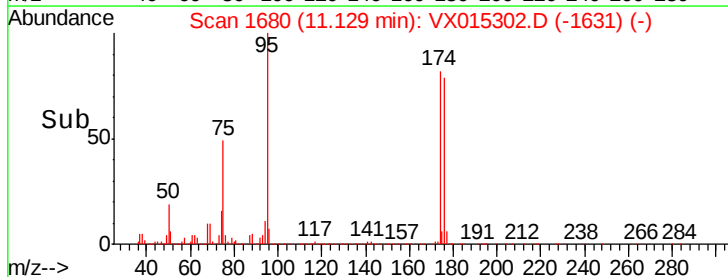
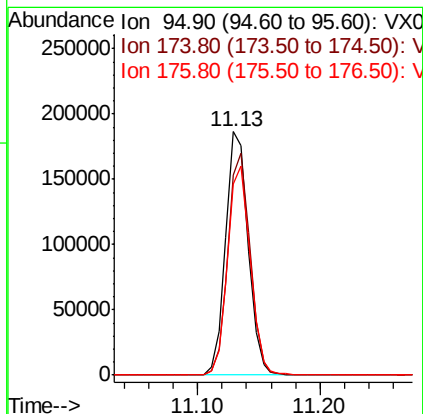
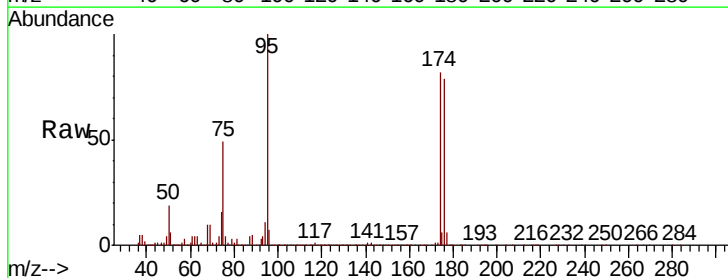
Instrument :
MSVOA_X
ClientSampleId :
TP-5-DA

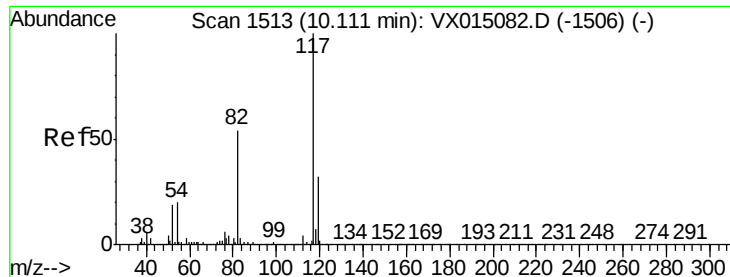
Tot Ion: 43 Resp: 78852
Ion Ratio Lower Upper
43 100
58 18.7 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 53.259 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion: 95 Resp: 237500
Ion Ratio Lower Upper
95 100
174 90.1 0.0 177.6
176 86.1 0.0 170.2

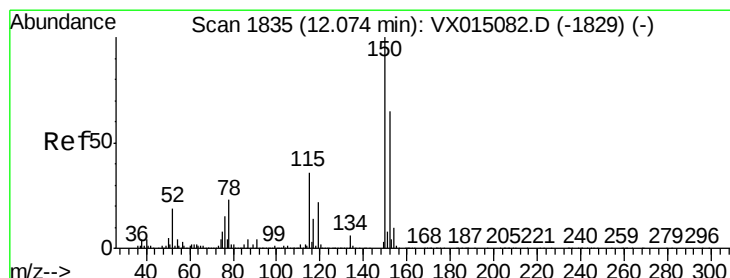
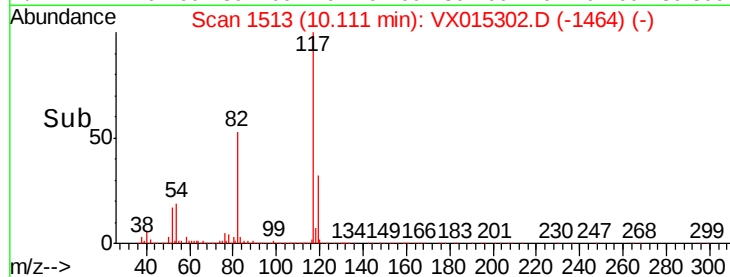
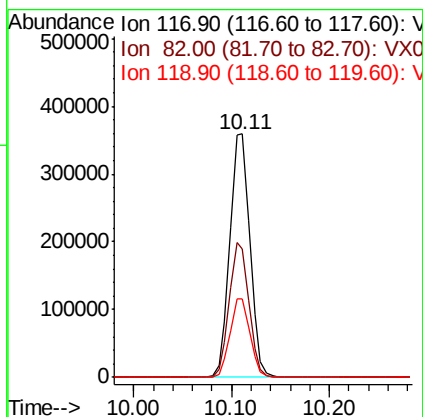
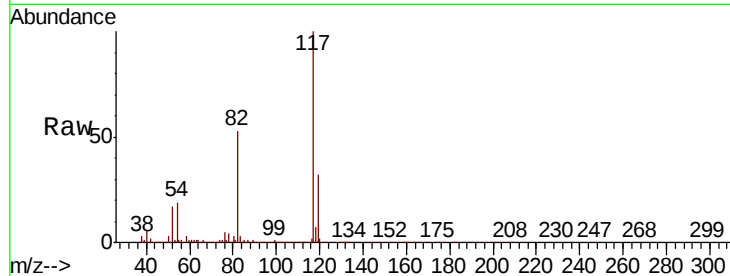




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

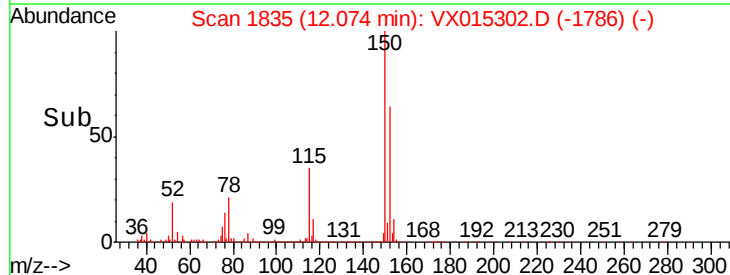
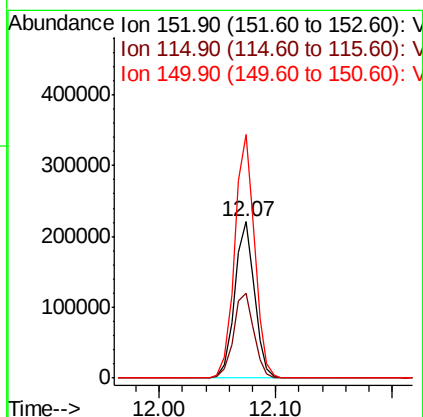
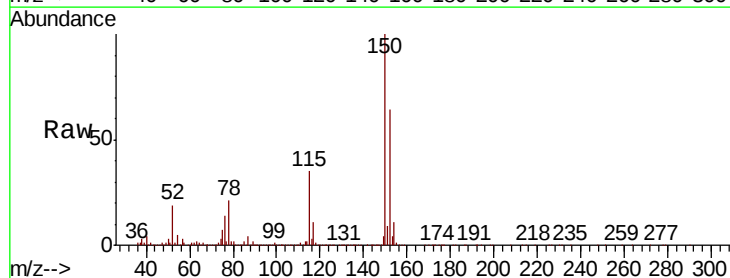
Instrument :
MSVOA_X
ClientSampleId :
TP-5-DA

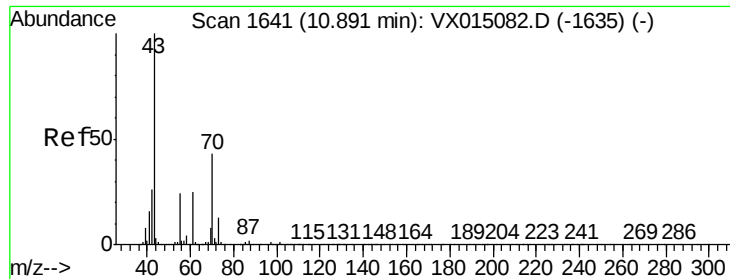
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	43.3	64.9
119	32.3	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX015302.D
Acq: 16 Mar 2020 18:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	38.2	114.6
150	156.2	0.0	343.8





#74

N-amvl acetate

Concen: 0.496 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

TP-5-DA

Tot Ion: 43 Resp: 3498

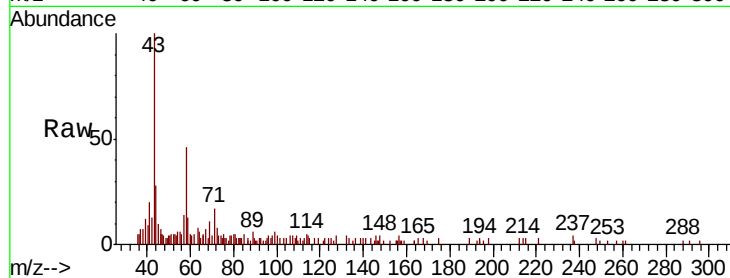
Ion Ratio Lower Upper

43 100

70 4.8 34.7 52.1#

55 5.3 19.4 29.0#

61 13.0 19.0 28.6#

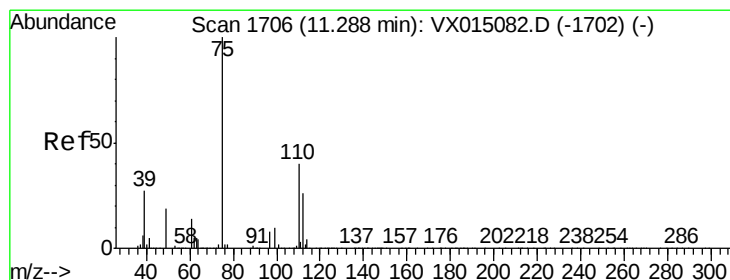
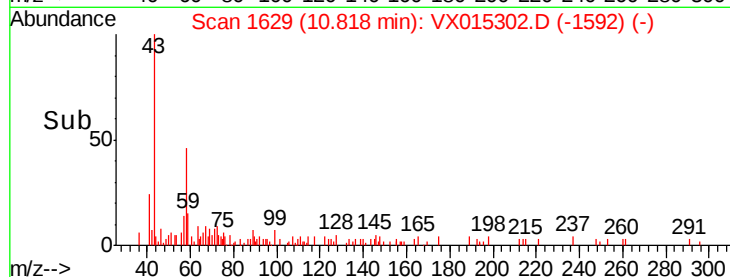
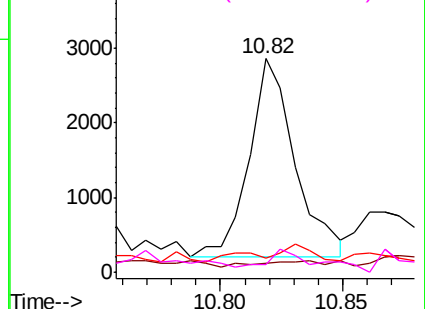


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.906 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015302.D

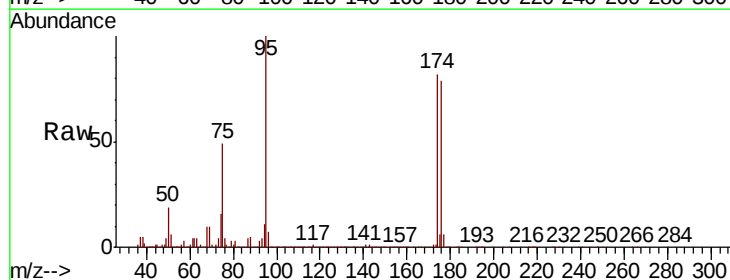
Acq: 16 Mar 2020 18:13

Tgt Ion: 75 Resp: 114479

Ion Ratio Lower Upper

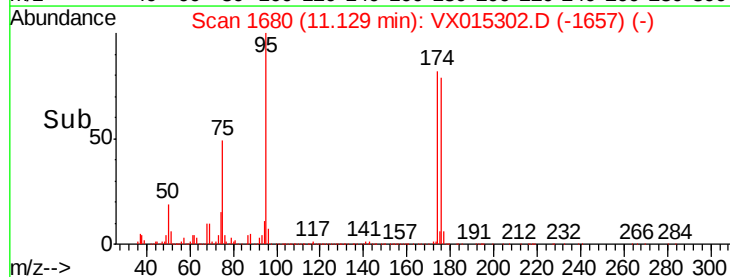
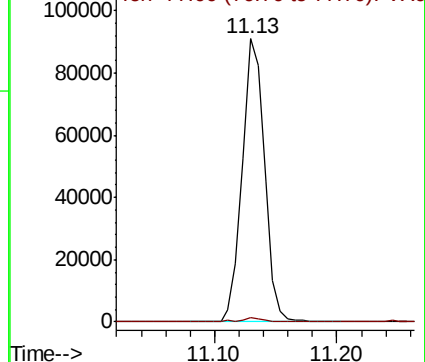
75 100

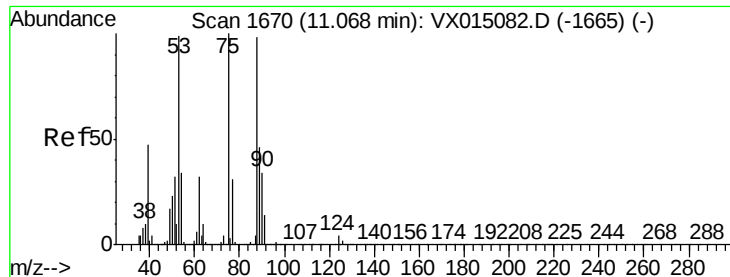
77 1.4 22.6 67.8#



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: 62.169 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

TP-5-DA

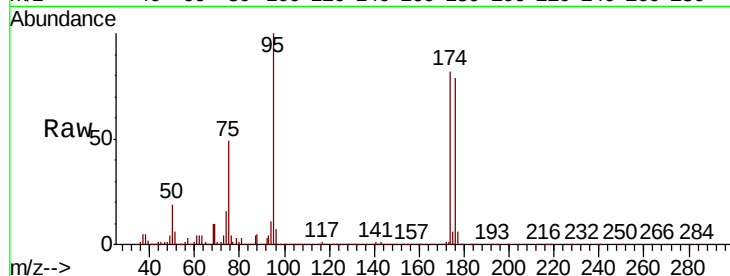
Tot Ion: 75 Resp: 114479

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

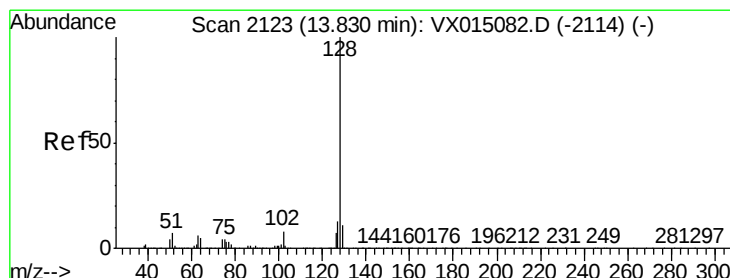
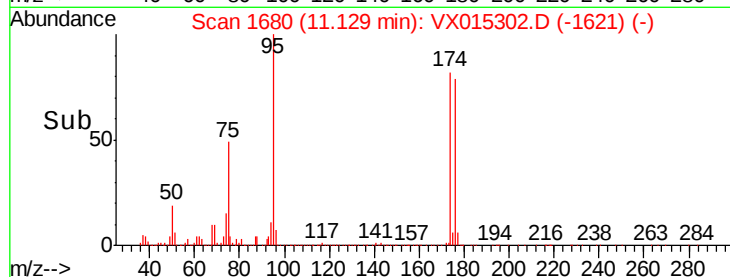
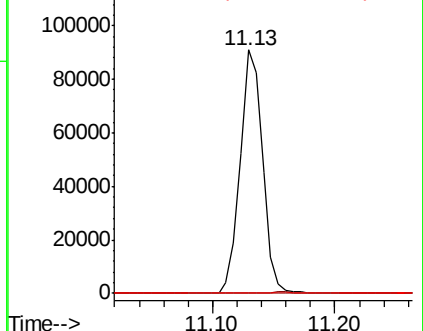
89 0.1 36.2 54.2#



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



#95

Naphthalene

Concen: 1.473 ug/l

RT: 13.82 min Scan# 2122

Delta R.T. -0.01 min

Lab File: VX015302.D

Acq: 16 Mar 2020 18:13

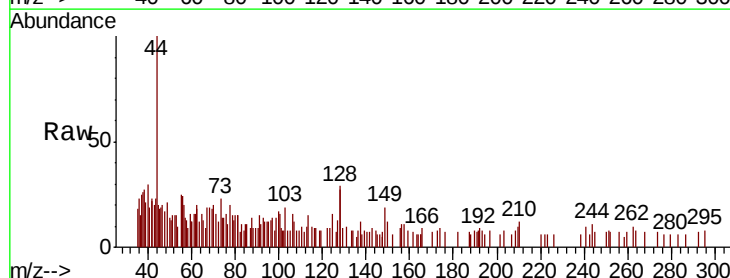
Tgt Ion: 128 Resp: 946

Ion Ratio Lower Upper

128 100

127 18.6 10.3 15.5#

129 13.1 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

