

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042320\
 Data File : VX015913.D
 Acq On : 24 Apr 2020 00:34
 Operator : JC/SP
 Sample : L2364-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 30962

Quant Time: Apr 24 03:42:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042220W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 23 04:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	841328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1280331	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1291213	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	724724	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	478998	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
35) Dibromofluoromethane	5.47	113	377137	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	8.70	98	1569517	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	11.12	95	681805	55.86	ug/l	0.00
Spiked Amount			Recovery	=	111.72%	

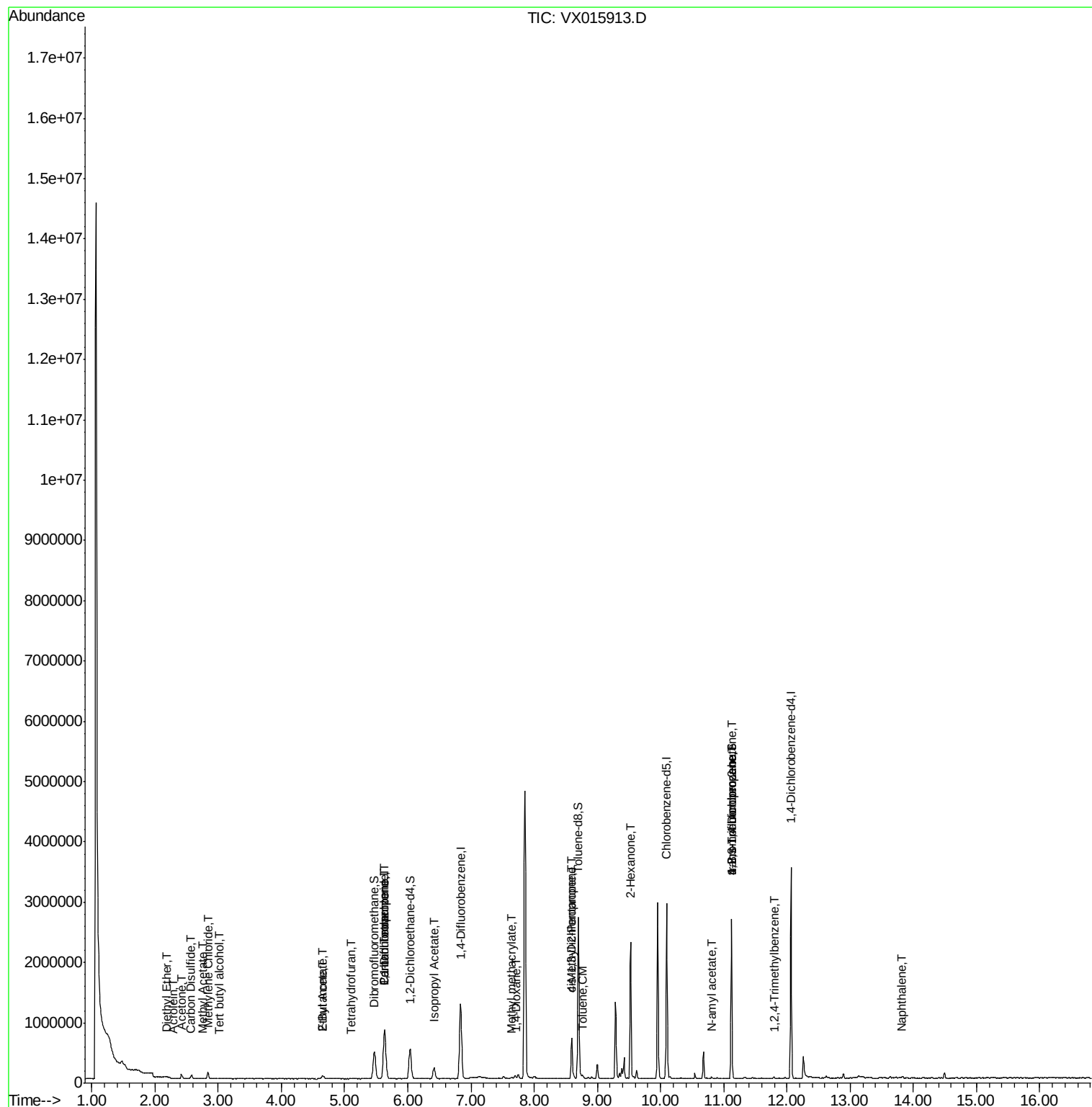
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1441	0.335	ug/l	98
11) Tert butyl alcohol	3.01	59	3663	1.874	ug/l #	56
13) Acrolein	2.28	56	1003	0.867	ug/l #	1
16) Acetone	2.42	43	78932	18.944	ug/l	99
17) Carbon Disulfide	2.55	76	11422	0.427	ug/l #	95
18) Methyl Acetate	2.75	43	12315	0.895	ug/l	93
20) Methylene Chloride	2.84	84	49078	5.802	ug/l	94
25) 2-Butanone	4.64	43	30373	4.612	ug/l #	89
29) Tetrahydrofuran	5.10	42	5019	1.152	ug/l #	70
36) 1,1-Dichloropropene	5.64	75	57582	5.073	ug/l #	52
37) Ethyl Acetate	4.64	43	30373	2.248	ug/l #	77
38) Carbon Tetrachloride	5.63	117	75657	6.767	ug/l #	18
43) Isopropyl Acetate	6.42	43	269951	11.847	ug/l	99
48) Methyl methacrylate	7.65	41	17736	1.582	ug/l #	18
49) 1,4-Dioxane	7.72	88	344	1.624	ug/l #	21
51) 4-Methyl-2-Pentanone	8.59	43	254423	19.344	ug/l #	47
52) Toluene	8.76	92	15520	0.708	ug/l	96
54) cis-1,3-Dichloropropene	8.59	75	109425	7.172	ug/l #	55
59) 2-Hexanone	9.53	43	275032	27.449	ug/l #	50
74) N-amyl acetate	10.81	43	16615	0.699	ug/l #	50
76) 1,2,3-Trichloropropane	11.12	75	330728	23.999	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	330728	57.729	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	9895	0.243	ug/l	71
95) Naphthalene	13.82	128	20689	0.417	ug/l #	89

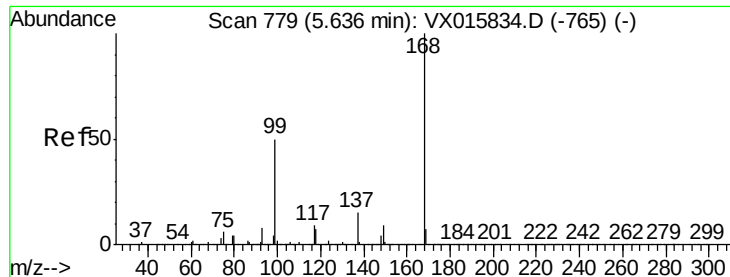
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042220W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 23 04:36:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.01 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

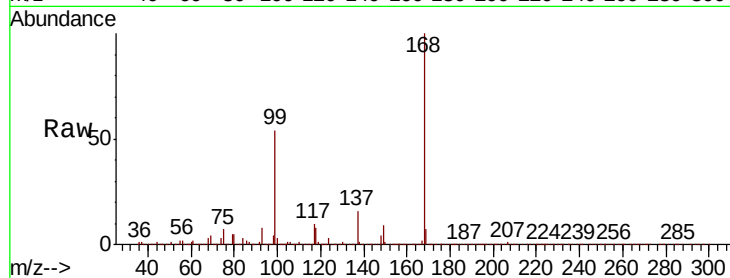
30962

Tot Ion:168 Resp: 841328

Ion Ratio Lower Upper

168 100

99 54.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

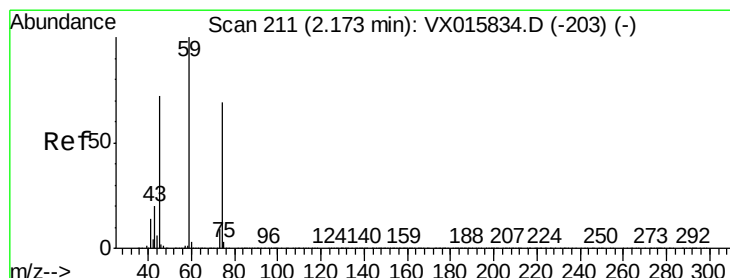
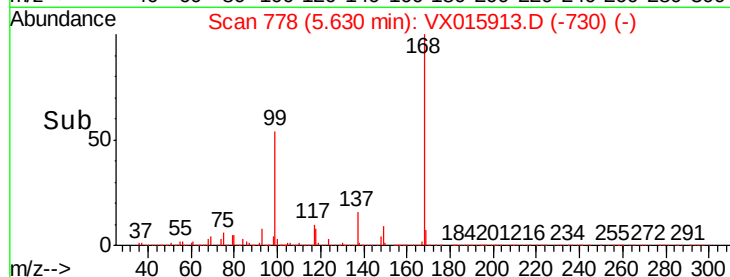
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.335 ug/l

RT: 2.17 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX015913.D

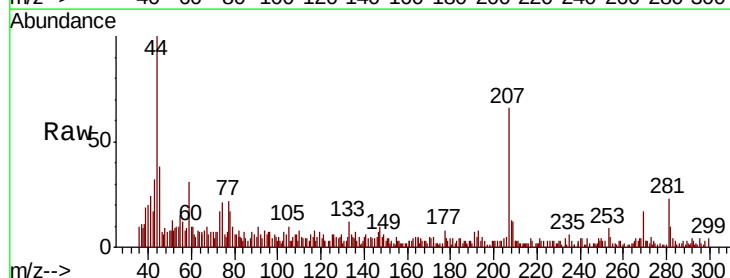
Acq: 24 Apr 2020 00:34

Tgt Ion: 74 Resp: 1441

Ion Ratio Lower Upper

74 100

45 105.6 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

2500

2000

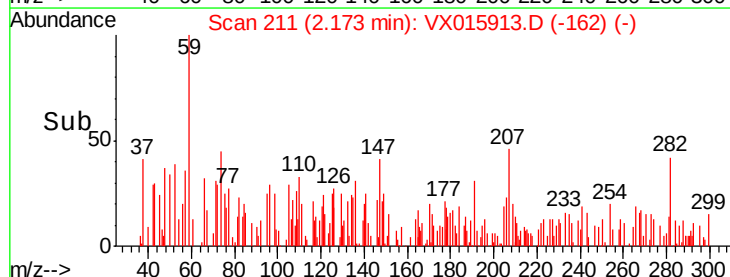
1500

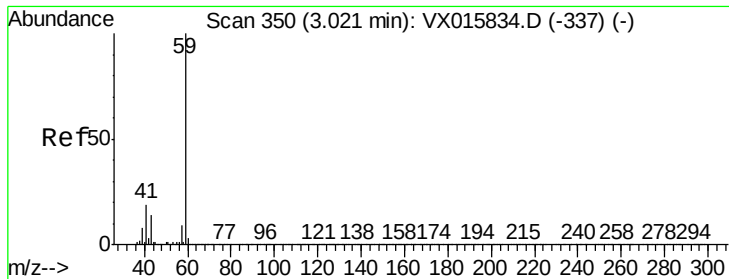
1000

500

0

Time-->



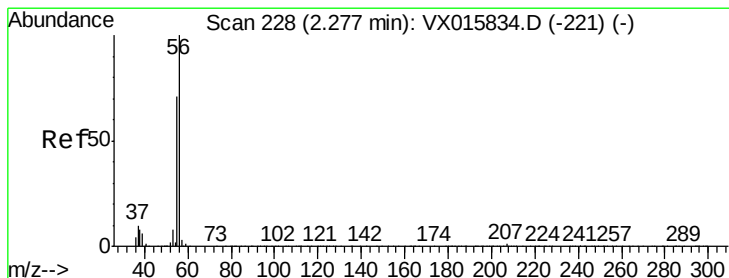
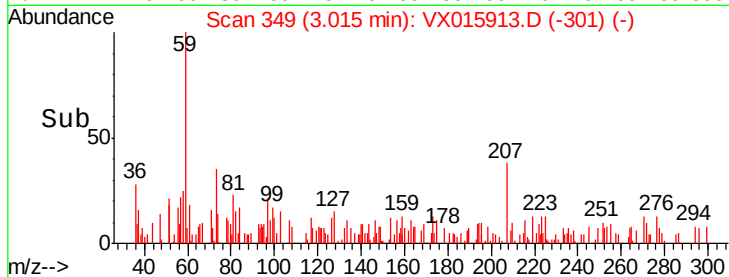
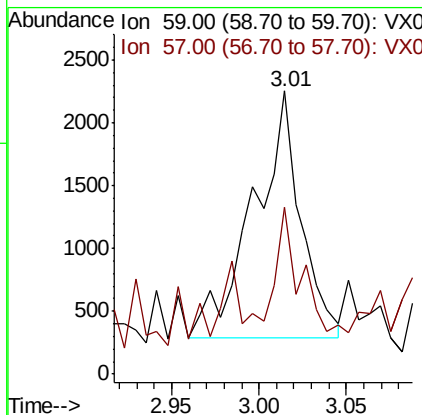
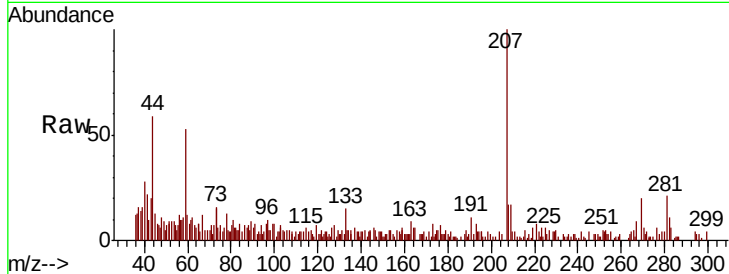


#11

Tert butyl alcohol
 Concen: 1.874 ug/l
 RT: 3.01 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

Instrument :
 MSVOA_X
 ClientSampleId :
 30962

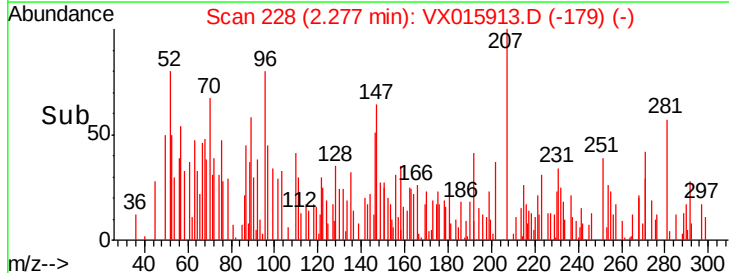
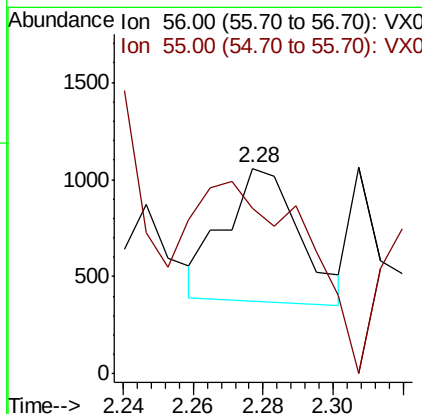
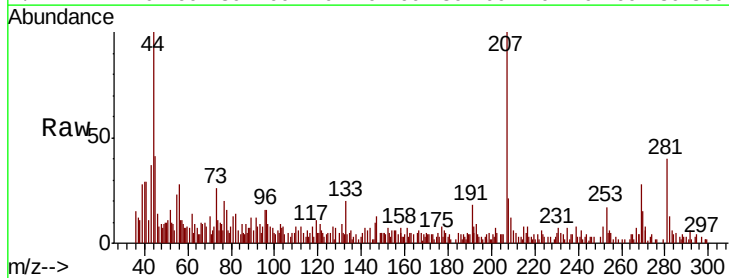
Tot Ion: 59 Resp: 3663
 Ion Ratio Lower Upper
 59 100
 57 26.5 8.2 12.2#

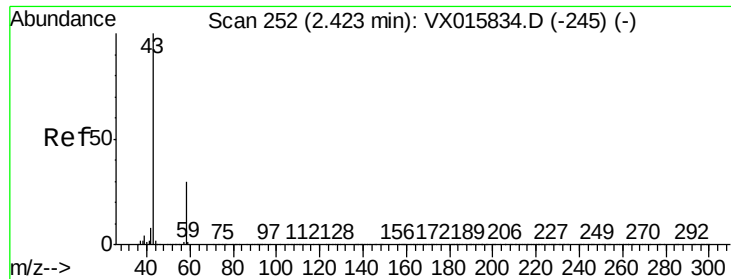


#13

Acrolein
 Concen: 0.867 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. 0.00 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

Tgt Ion: 56 Resp: 1003
 Ion Ratio Lower Upper
 56 100
 55 227.8 56.1 84.1#





#16

Acetone

Concen: 18.944 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.01 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampled :

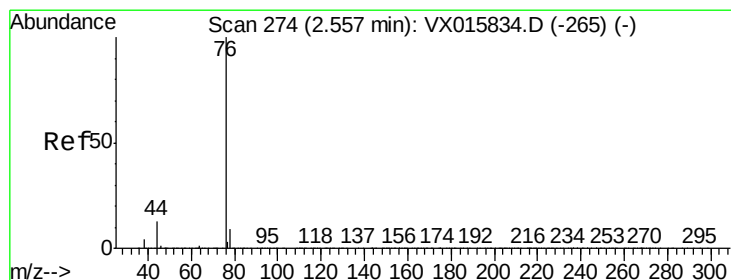
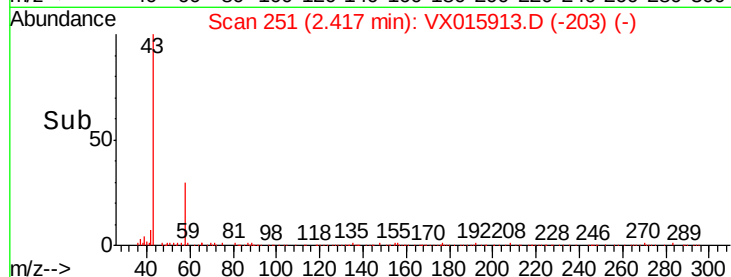
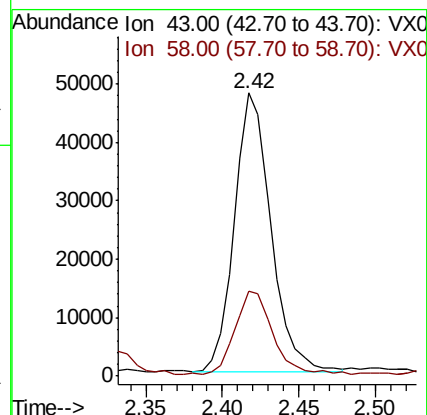
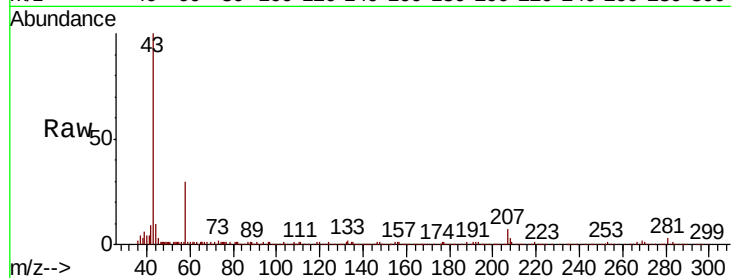
30962

Tot Ion: 43 Resp: 78932

Ion Ratio Lower Upper

43 100

58 29.2 24.0 36.0



#17

Carbon Disulfide

Concen: 0.427 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX015913.D

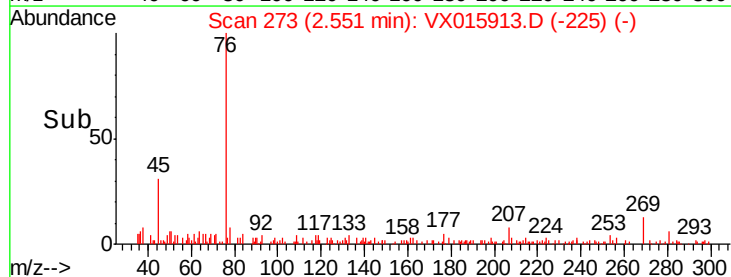
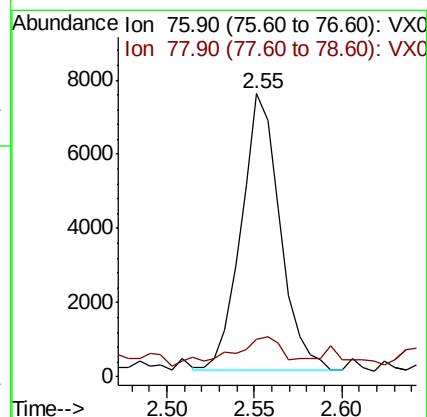
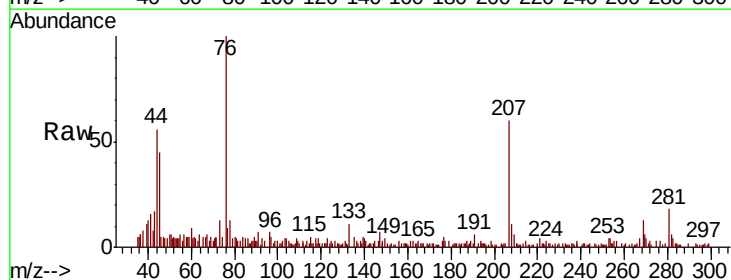
Acq: 24 Apr 2020 00:34

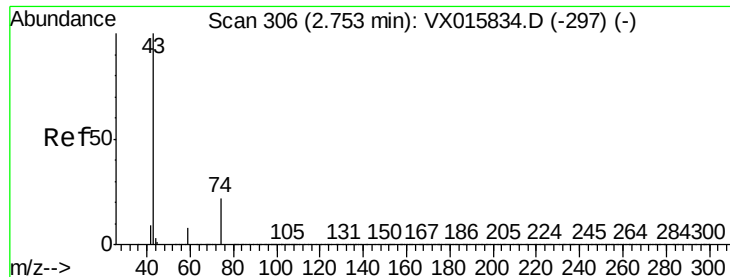
Tgt Ion: 76 Resp: 11422

Ion Ratio Lower Upper

76 100

78 7.3 7.4 11.2#

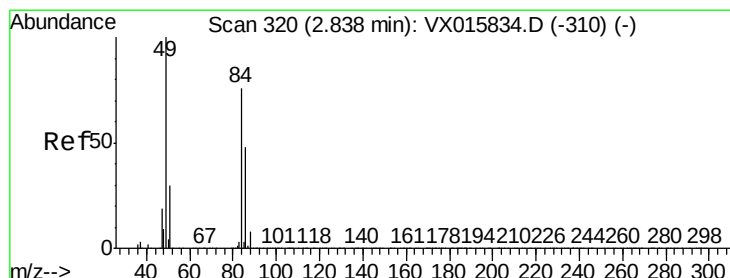
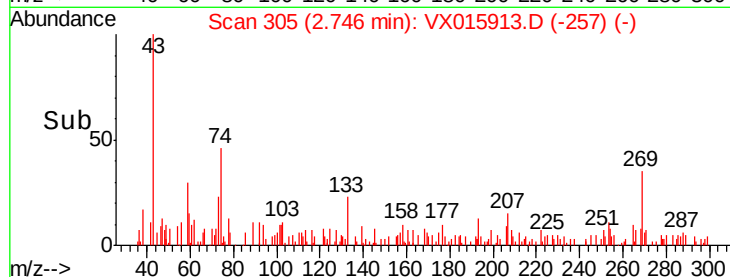
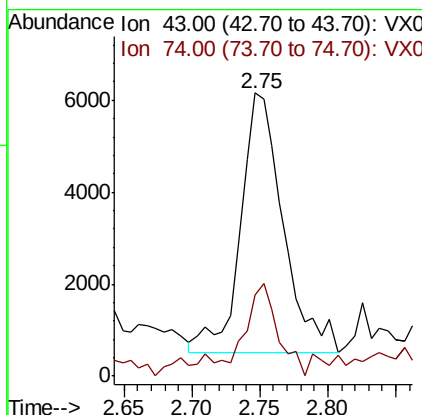
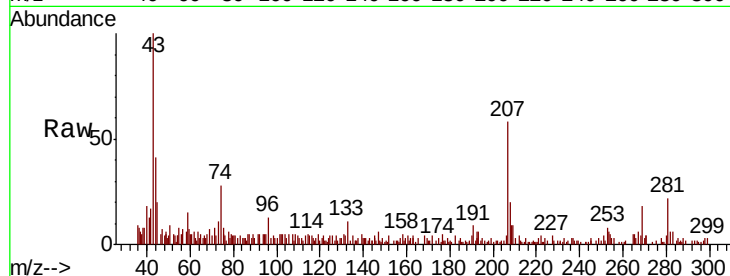




#18
Methyl Acetate
Concen: 0.895 ug/l
RT: 2.75 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

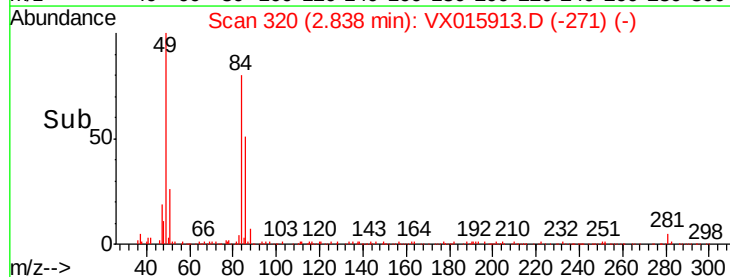
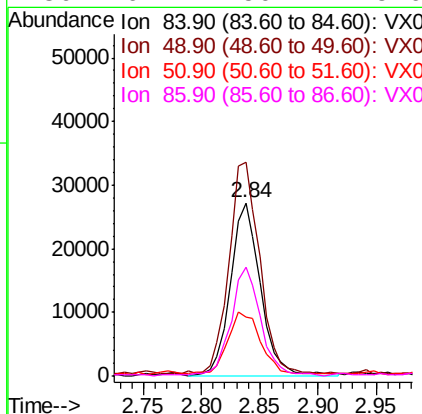
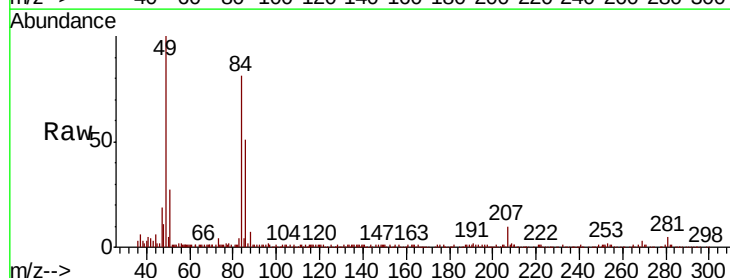
Instrument :
MSVOA_X
ClientSampleId :
30962

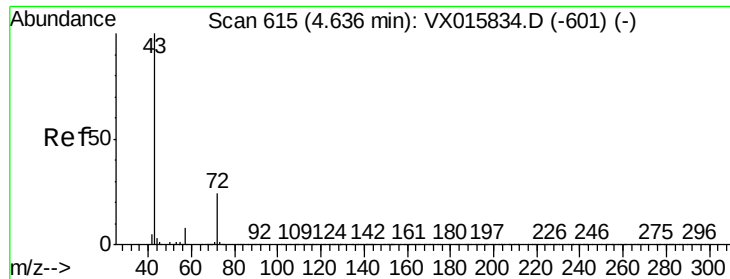
Tot Ion: 43 Resp: 12315
Ion Ratio Lower Upper
43 100
74 25.9 17.9 26.9



#20
Methylene Chloride
Concen: 5.802 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.00 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

Tgt Ion: 84 Resp: 49078
Ion Ratio Lower Upper
84 100
49 122.4 104.9 157.3
51 32.5 32.0 48.0
86 62.7 50.4 75.6

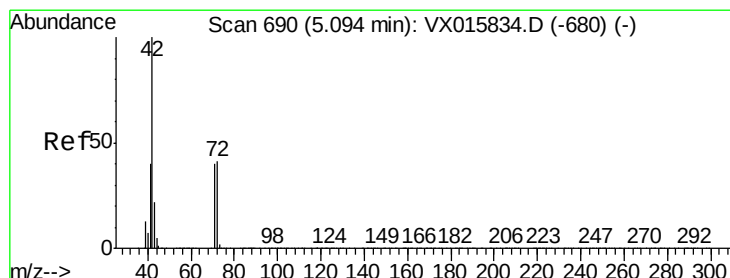
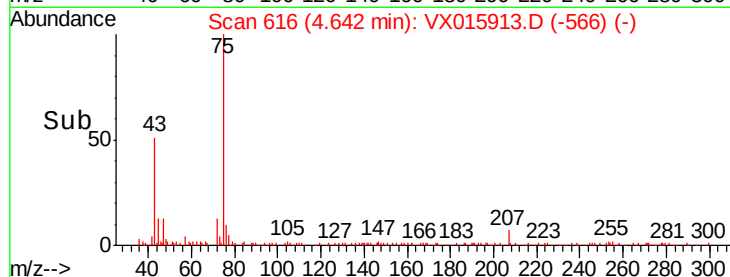
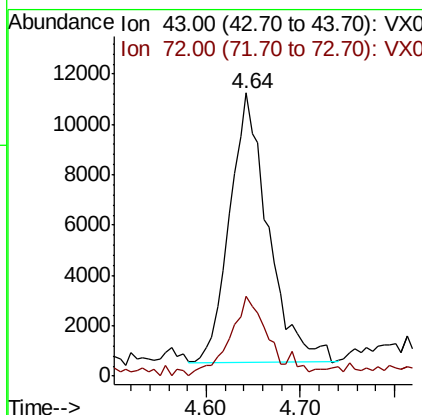
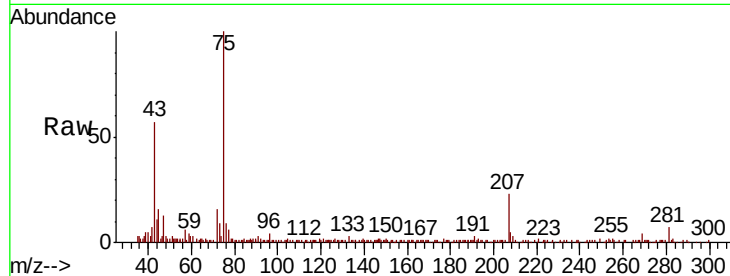




#25
2-Butanone
Concen: 4.612 ug/l
RT: 4.64 min Scan# 616
Delta R.T. 0.01 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

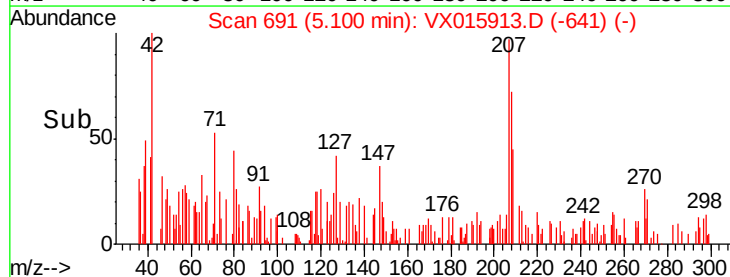
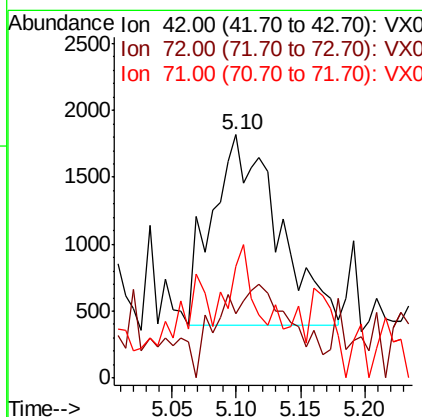
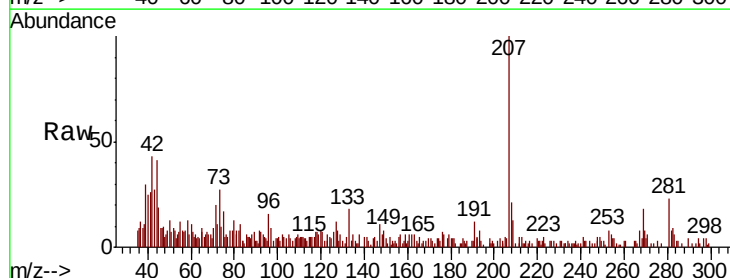
Instrument :
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ClientSampleId :
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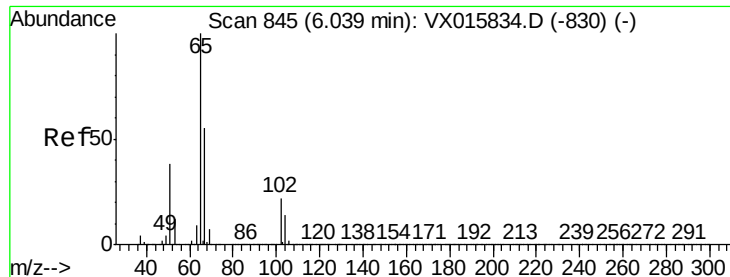
Tot Ion: 43 Resp: 30373
Ion Ratio Lower Upper
43 100
72 29.7 19.4 29.2#



#29
Tetrahydrofuran
Concen: 1.152 ug/l
RT: 5.10 min Scan# 691
Delta R.T. 0.01 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

Tgt Ion: 42 Resp: 5019
Ion Ratio Lower Upper
42 100
72 54.7 33.0 49.6#
71 14.5 30.6 45.8#





#33

1,2-Dichloroethane-d4

Concen: 50.058 ug/l

RT: 6.04 min Scan# 845

Delta R.T. -0.00 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

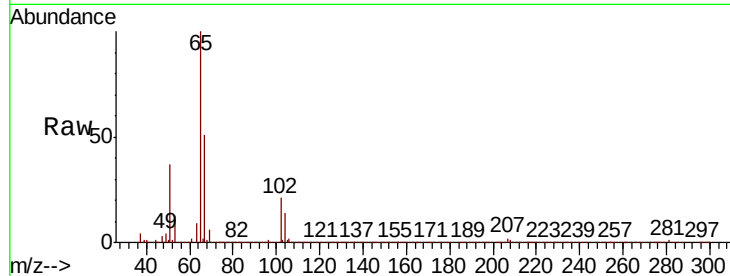
30962

Tot Ion: 65 Resp: 478998

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

200000

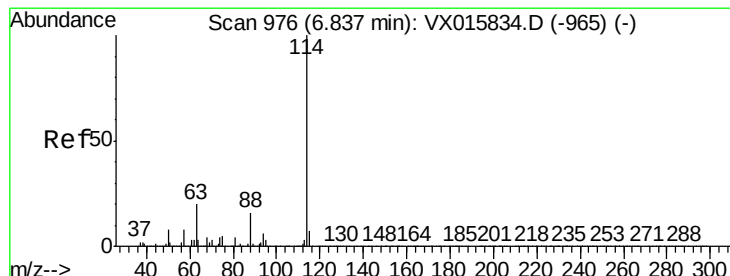
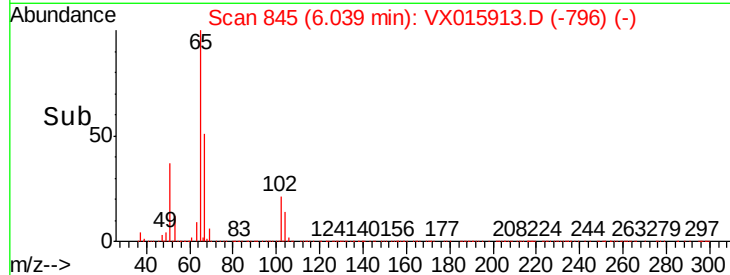
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

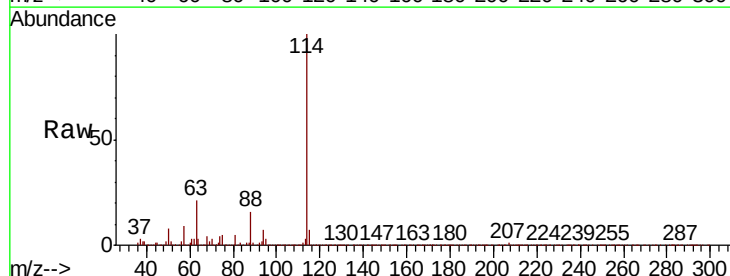
Tgt Ion: 114 Resp: 1280331

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.6

88 16.2 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.84

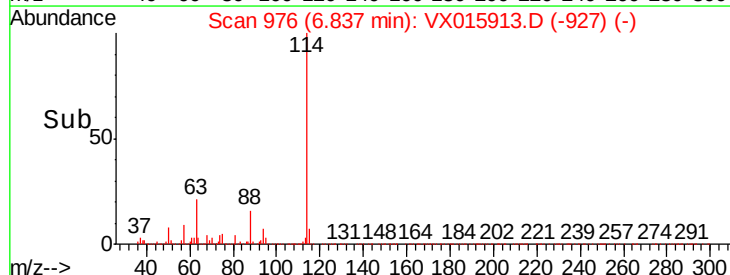
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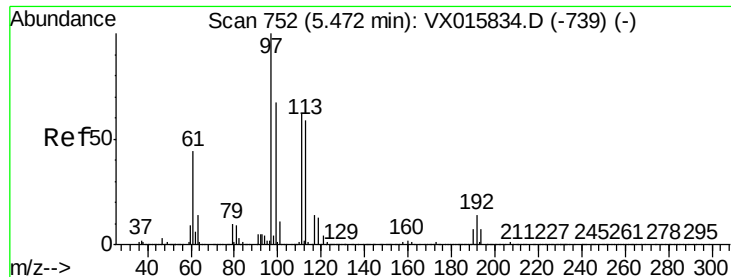
400000

200000

0

Time-->

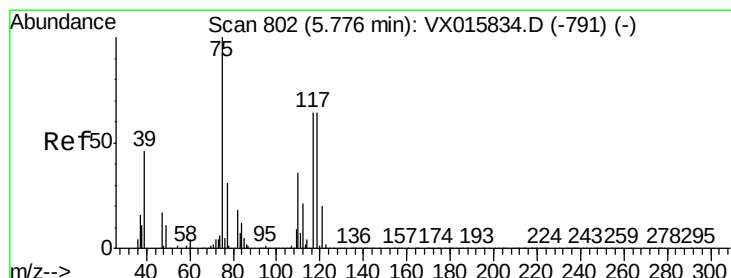
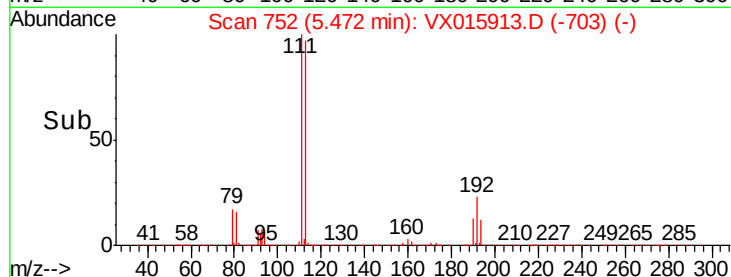
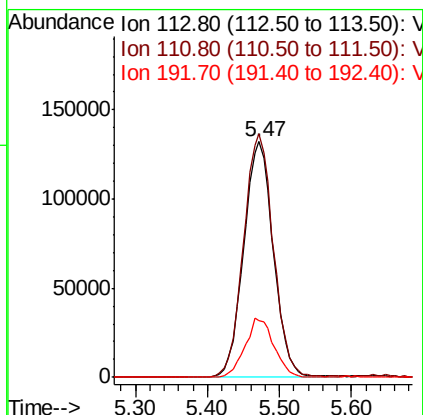
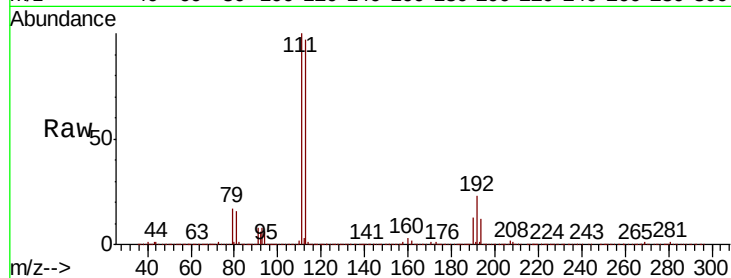




#35
Dibromofluoromethane
Concen: 51.031 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

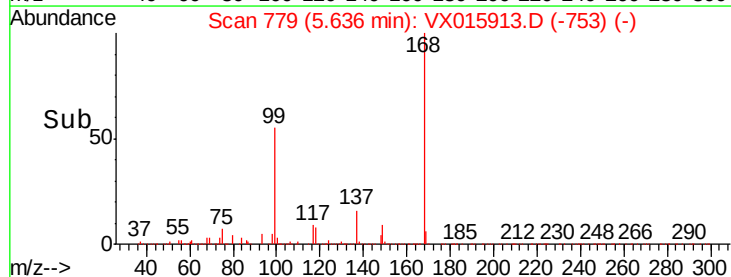
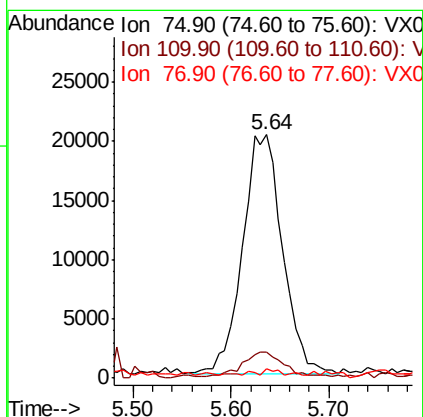
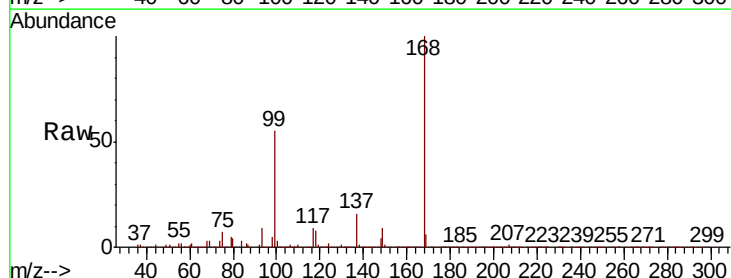
Instrument :
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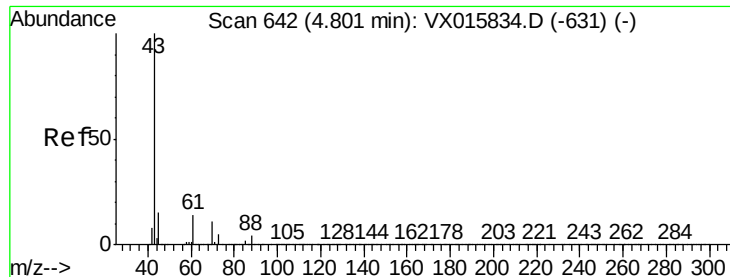
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.7	124.1
192	24.5	19.3	28.9



#36
1,1-Dichloropropene
Concen: 5.073 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.14 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.9	53.8#
77	1.4	24.5	36.7#

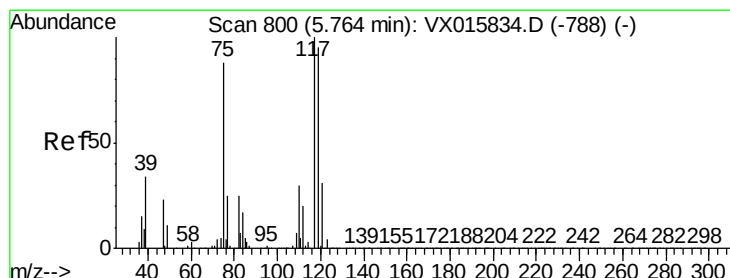
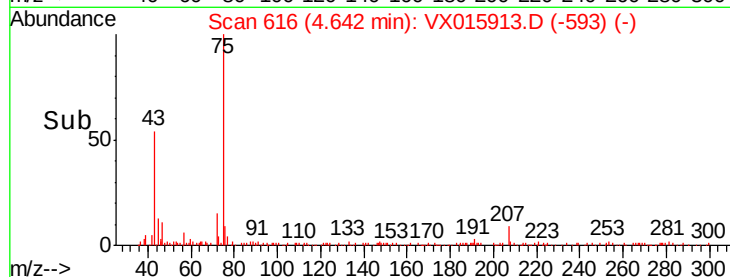
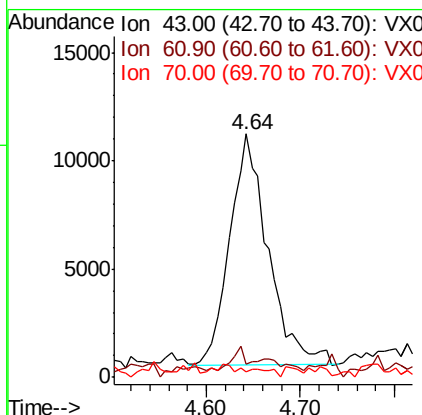
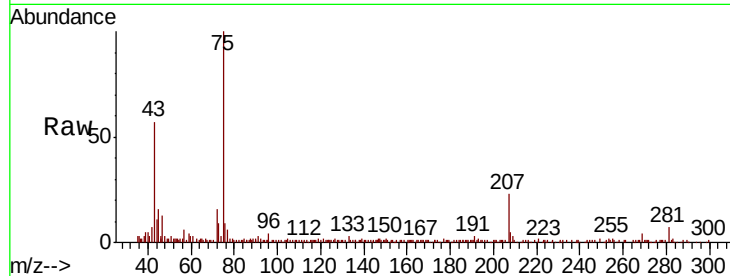




#37
Ethyl Acetate
Concen: 2.248 ug/l
RT: 4.64 min Scan# 616
Delta R.T. -0.16 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

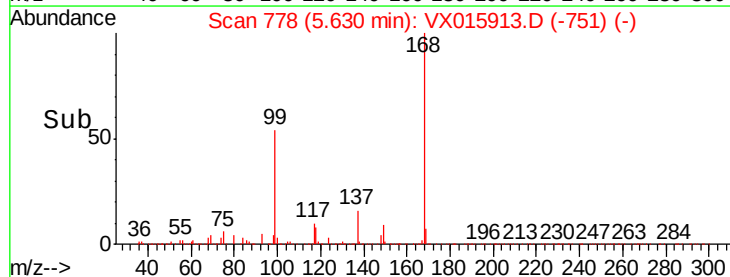
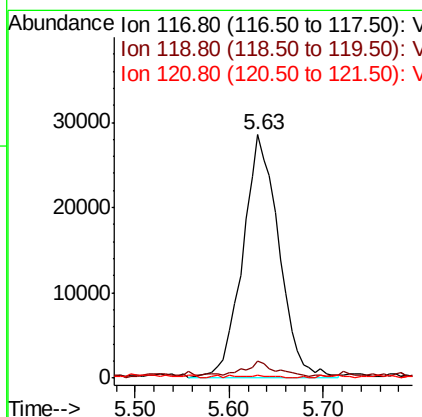
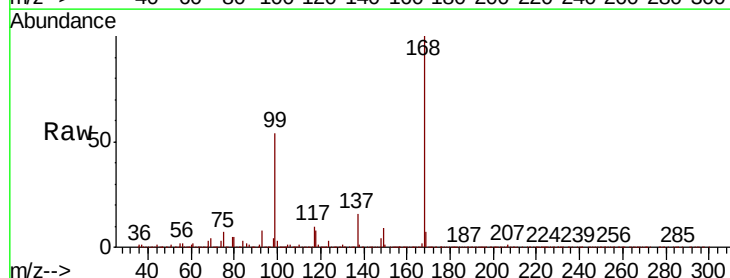
Instrument :
MSVOA_X
ClientSampleId :
30962

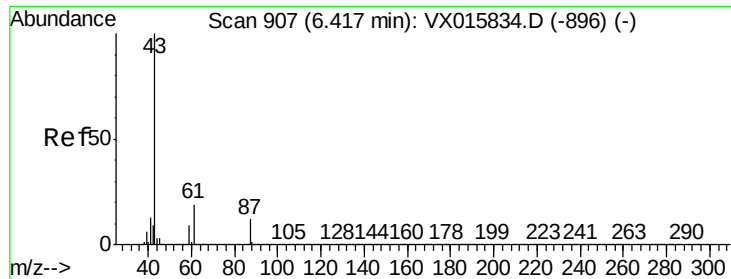
Tot Ion: 43 Resp: 30373
Ion Ratio Lower Upper
43 100
61 5.5 10.8 16.2#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: 6.767 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.13 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

Tgt Ion: 117 Resp: 75657
Ion Ratio Lower Upper
117 100
119 6.2 75.7 113.5#
121 0.3 25.0 37.6#



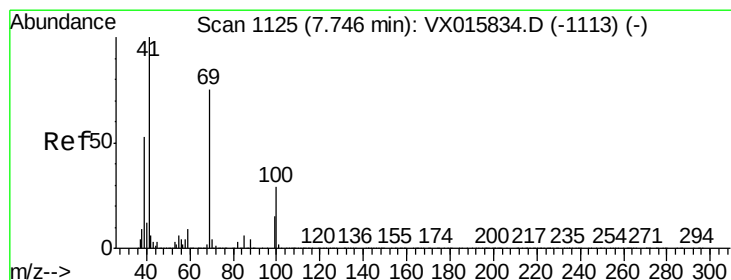
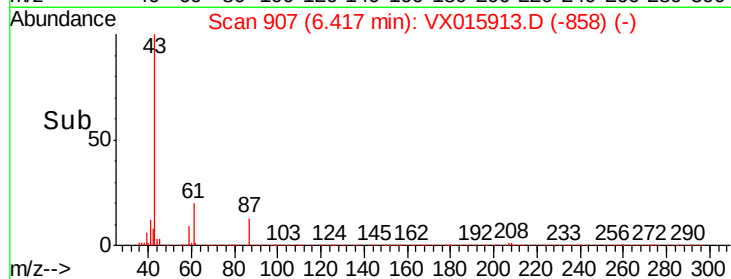
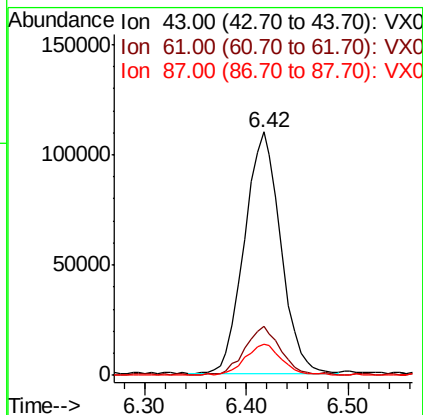
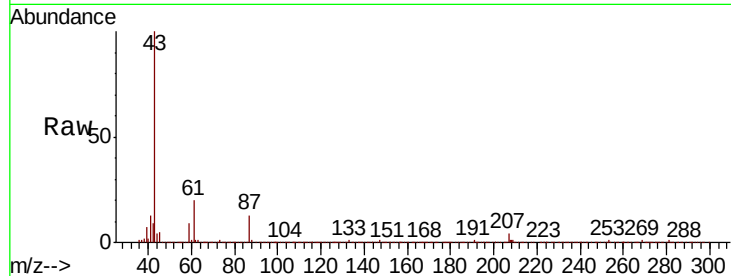


#43

Isopropyl Acetate
 Concen: 11.847 ug/l
 RT: 6.42 min Scan# 907
 Delta R.T. 0.00 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

Instrument :
 MSVOA_X
 ClientSampleId :
 30962

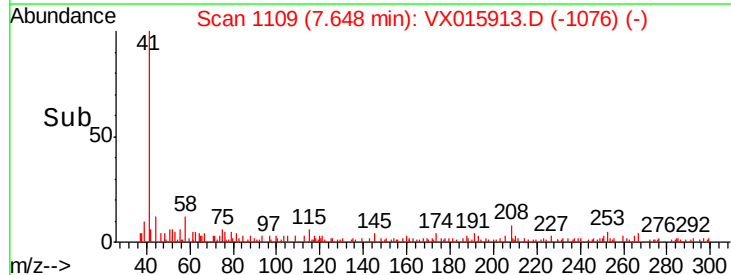
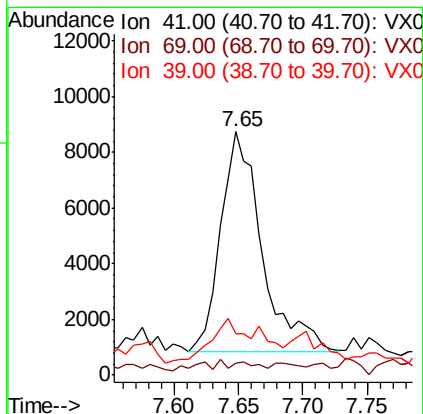
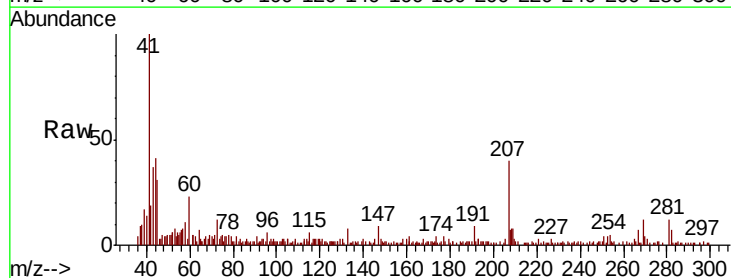
Tot Ion	43	Resp	269951
Ion Ratio	100		
Lower	15.4		
Upper	23.2		
61	19.7		
87	12.9		

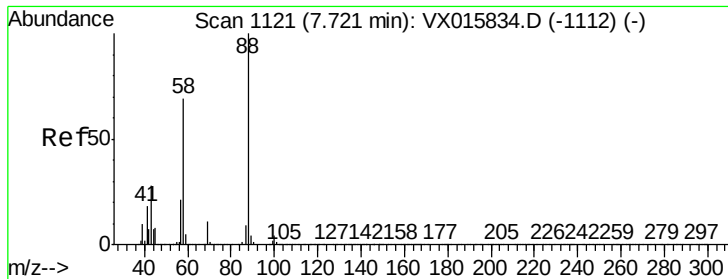


#48

Methyl methacrylate
 Concen: 1.582 ug/l
 RT: 7.65 min Scan# 1109
 Delta R.T. -0.10 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

Tgt Ion	41	Resp	17736
Ion Ratio	100		
Lower	60.5		
Upper	90.7#		
69	0.8		
39	0.0		





#49

1,4-Dioxane

Concen: 1.624 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

30962

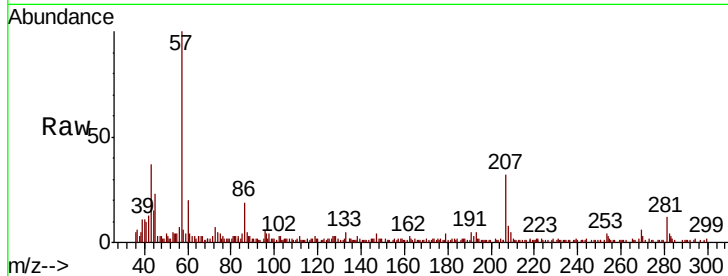
Tot Ion: 88 Resp: 344

Ion Ratio Lower Upper

88 100

43 0.0 28.2 42.4#

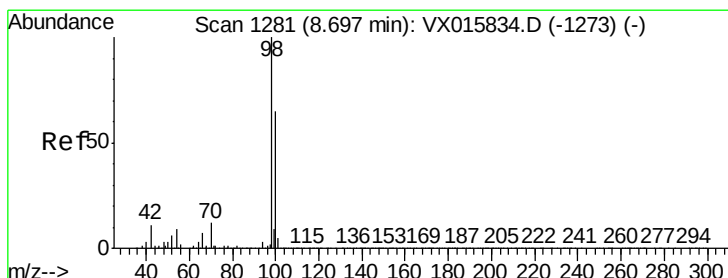
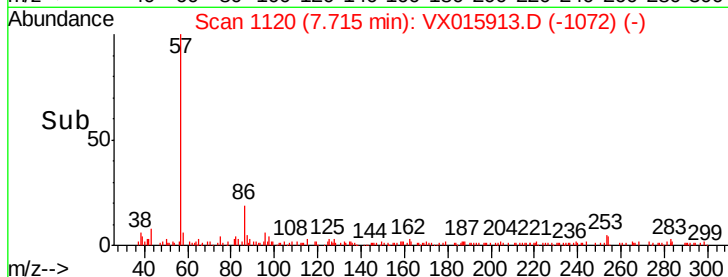
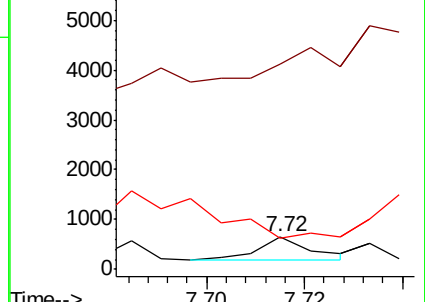
58 0.0 58.9 88.3#



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: 52.755 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015913.D

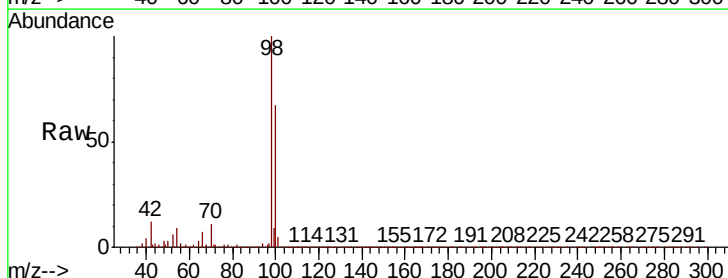
Acq: 24 Apr 2020 00:34

Tgt Ion: 98 Resp: 1569517

Ion Ratio Lower Upper

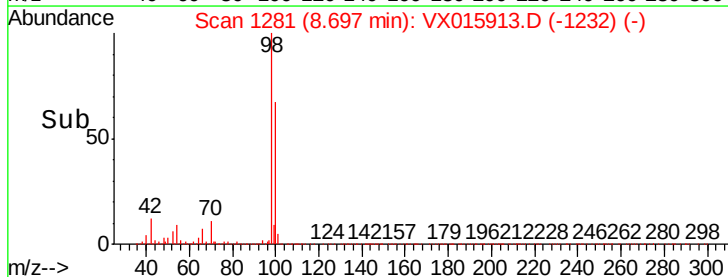
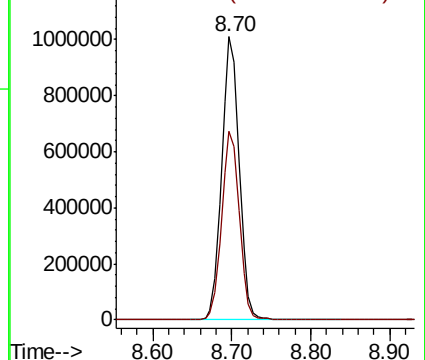
98 100

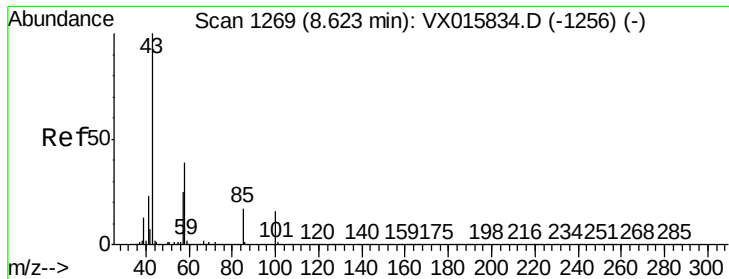
100 67.0 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

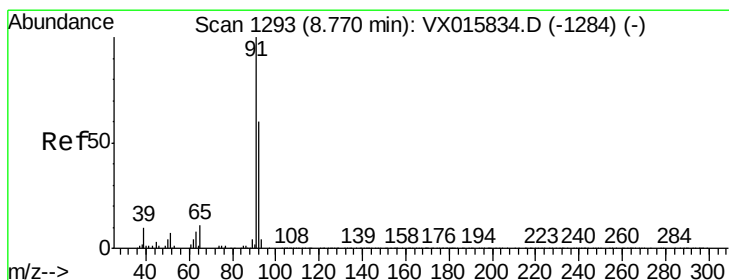
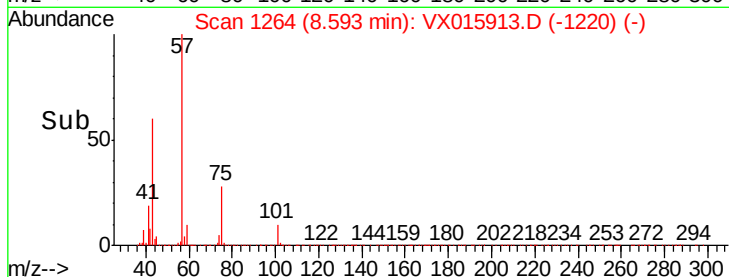
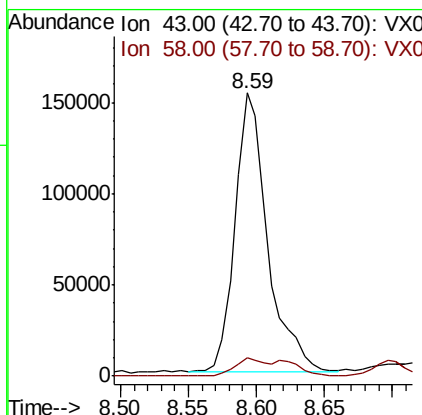
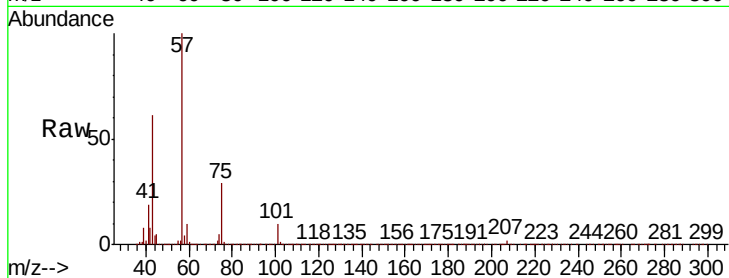




#51
 4-Methyl-2-Pentanone
 Concen: 19.344 ug/l
 RT: 8.59 min Scan# 1264
 Delta R.T. -0.03 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

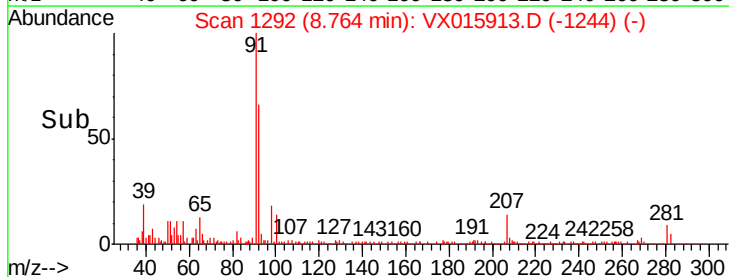
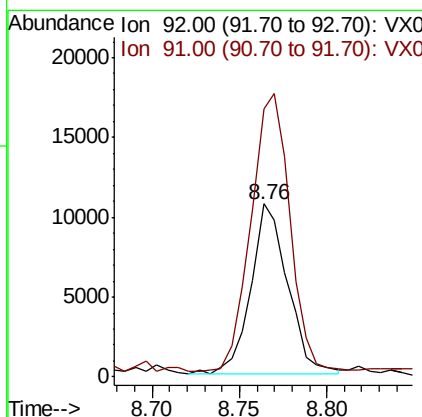
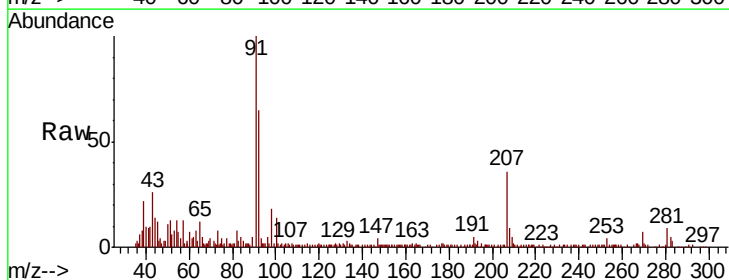
Instrument :
 MSVOA_X
 ClientSampleId :
 30962

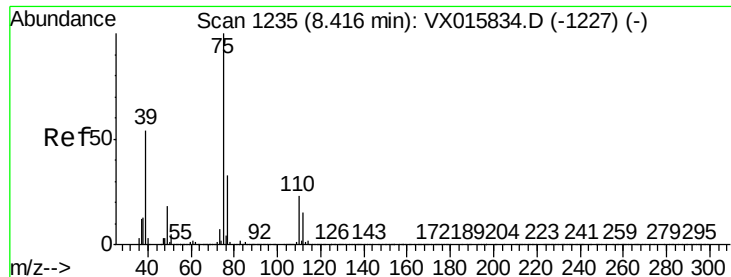
Tot Ion: 43 Resp: 254423
 Ion Ratio Lower Upper
 43 100
 58 6.3 30.6 45.8#



#52
 Toluene
 Concen: 0.708 ug/l
 RT: 8.76 min Scan# 1292
 Delta R.T. -0.01 min
 Lab File: VX015913.D
 Acq: 24 Apr 2020 00:34

Tgt Ion: 92 Resp: 15520
 Ion Ratio Lower Upper
 92 100
 91 172.1 133.4 200.0





#54

cis-1,3-Dichloropropene

Concen: 7.172 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. 0.18 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

30962

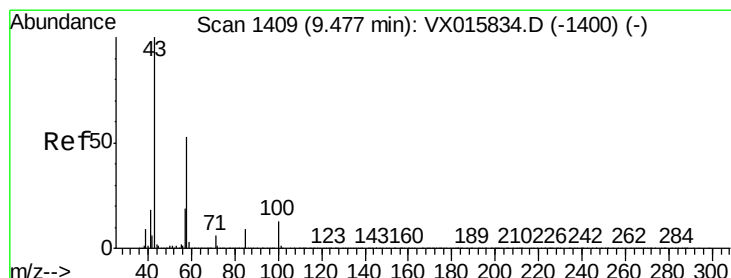
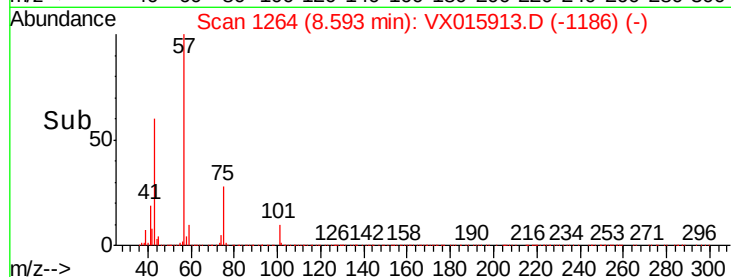
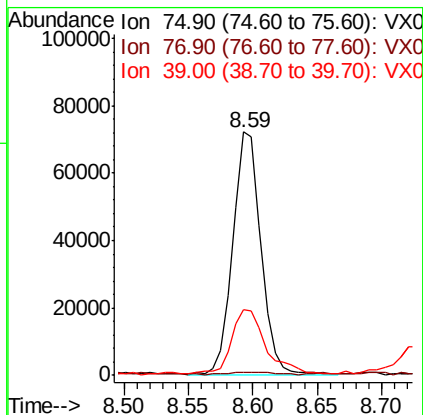
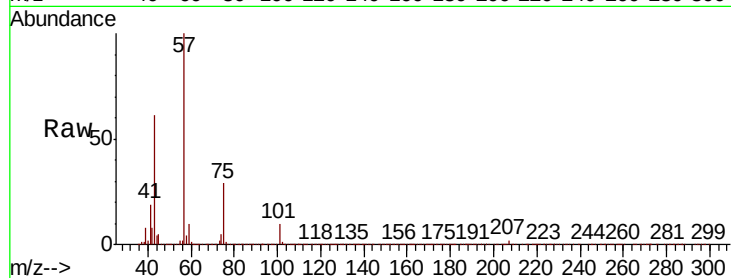
Tot Ion: 75 Resp: 109425

Ion Ratio Lower Upper

75 100

77 0.5 26.0 39.0#

39 26.1 42.8 64.2#



#59

2-Hexanone

Concen: 27.449 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015913.D

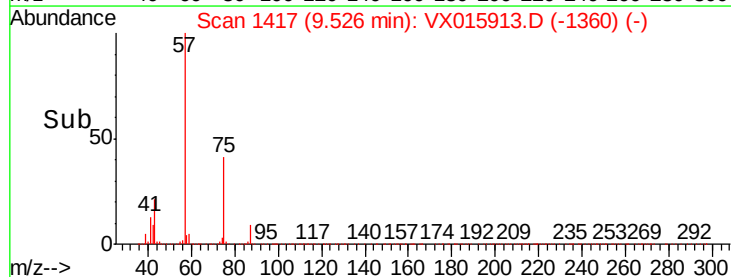
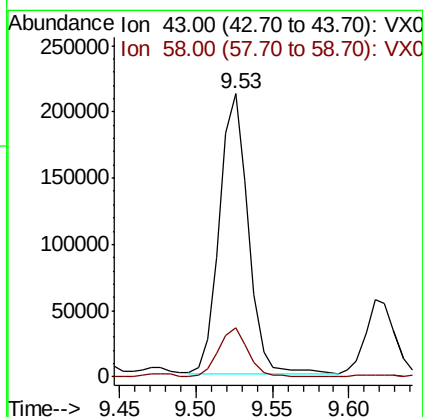
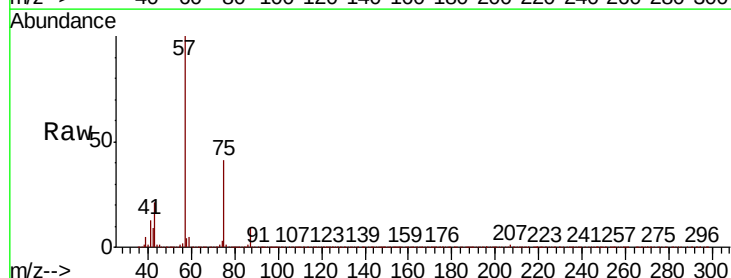
Acq: 24 Apr 2020 00:34

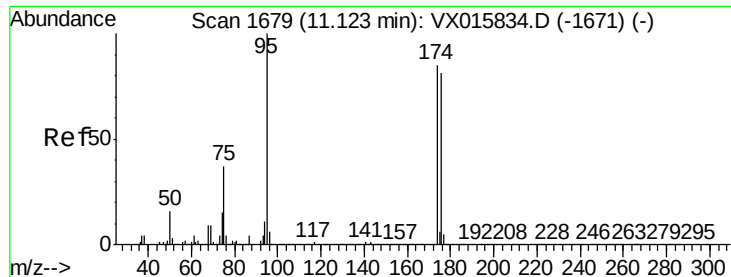
Tgt Ion: 43 Resp: 275032

Ion Ratio Lower Upper

43 100

58 17.4 26.5 79.4#

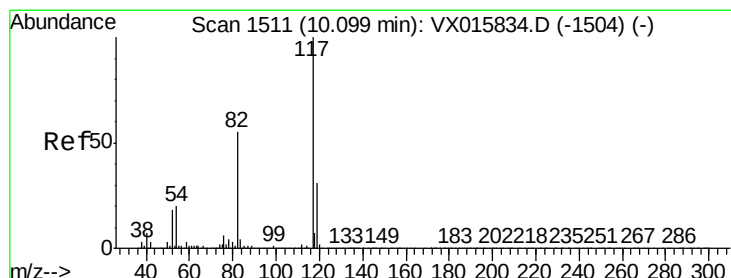
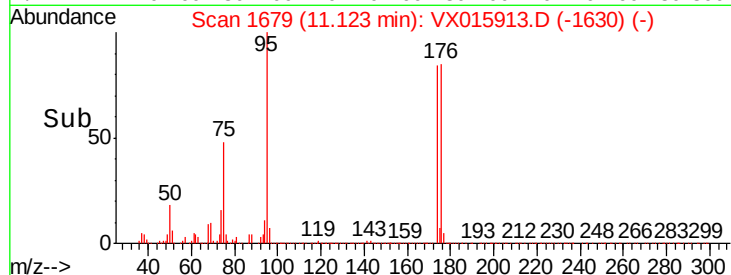
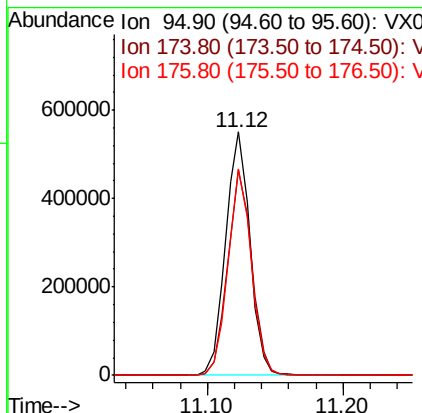
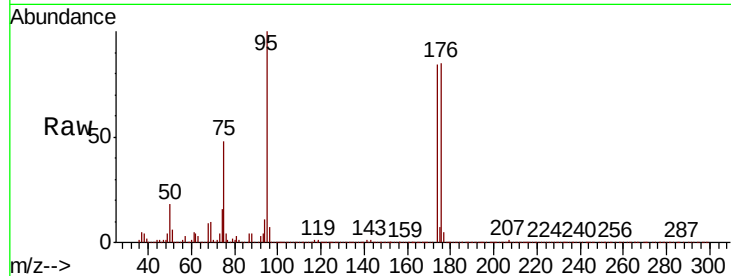




#62
4-Bromofluorobenzene
Concen: 55.864 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

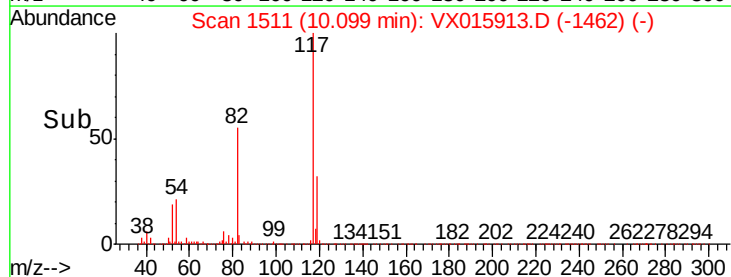
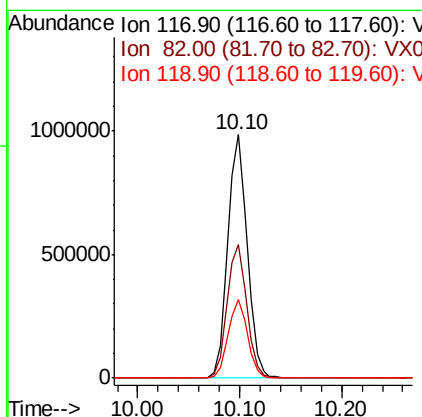
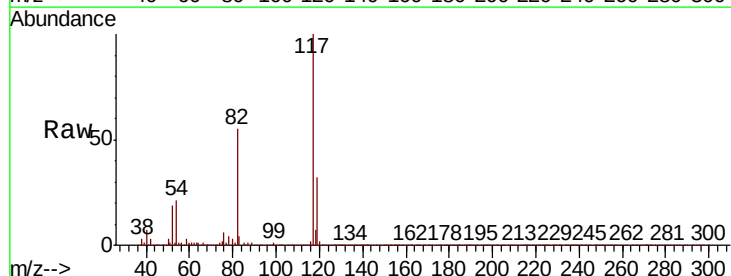
Instrument :
MSVOA_X
ClientSampleId :
30962

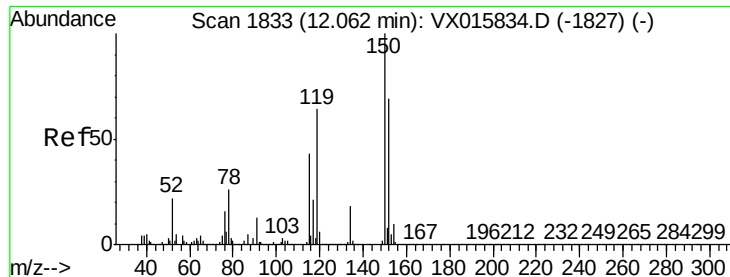
Tot Ion	Ratio	Lower	Upper
95	100		
174	83.9	0.0	172.4
176	81.4	0.0	167.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015913.D
Acq: 24 Apr 2020 00:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.9	65.9
119	32.2	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

30962

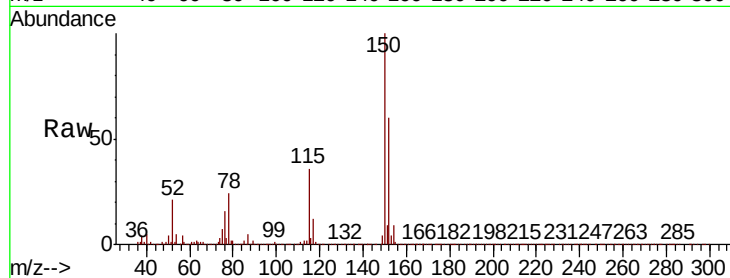
Tot Ion:152 Resp: 724724

Ion Ratio Lower Upper

152 100

115 56.4 39.0 116.9

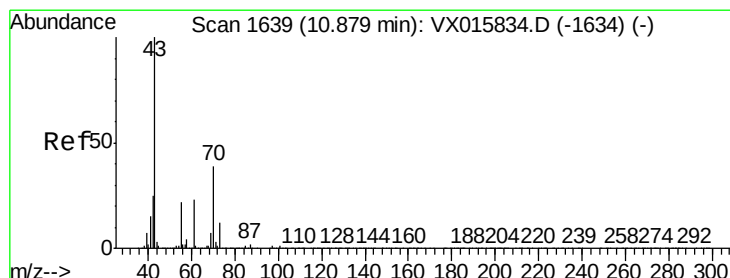
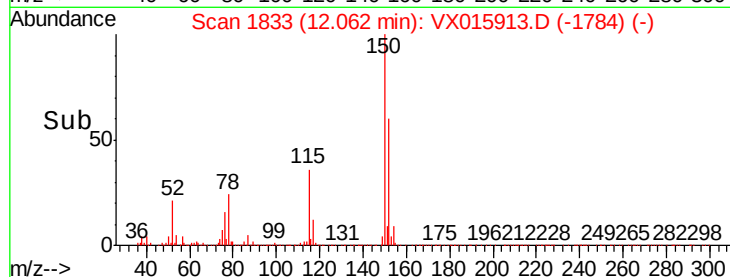
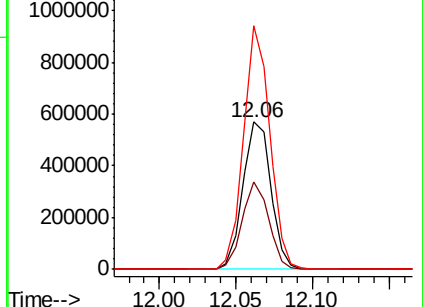
150 155.2 0.0 336.8



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-aryl acetate

Concen: 0.699 ug/l

RT: 10.81 min Scan# 1627

Delta R.T. -0.07 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Tgt Ion: 43 Resp: 16615

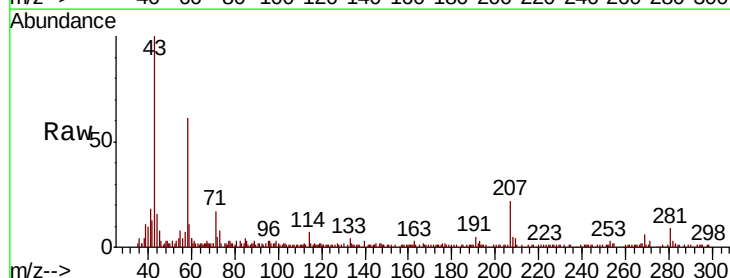
Ion Ratio Lower Upper

43 100

70 2.8 32.6 49.0#

55 8.0 18.3 27.5#

61 0.0 18.7 28.1#

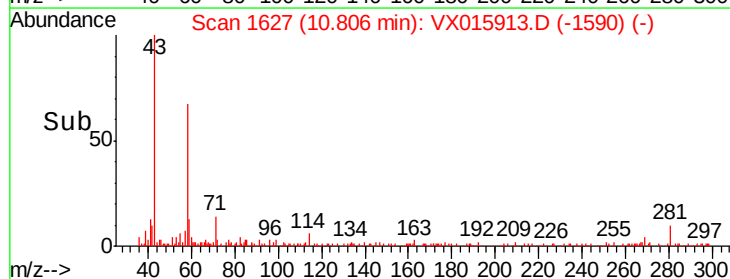
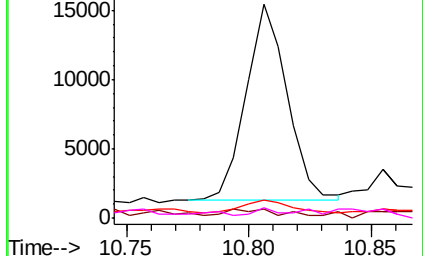


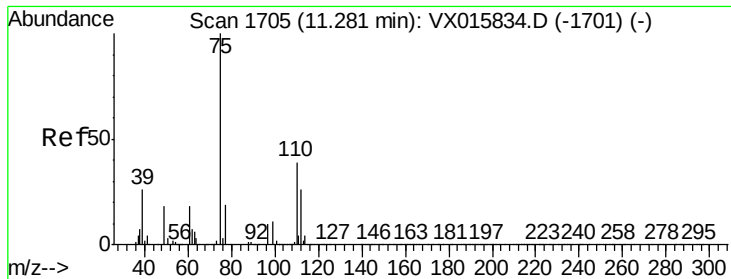
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.999 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

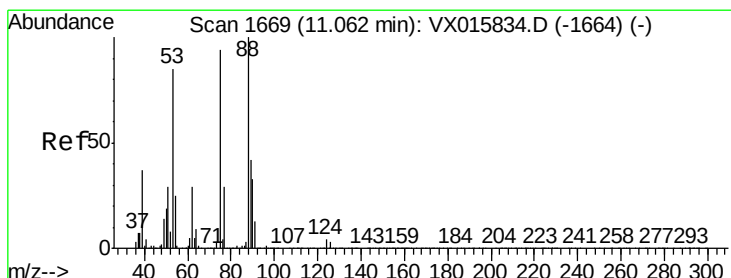
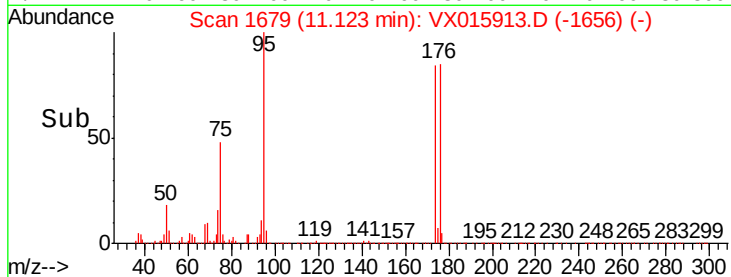
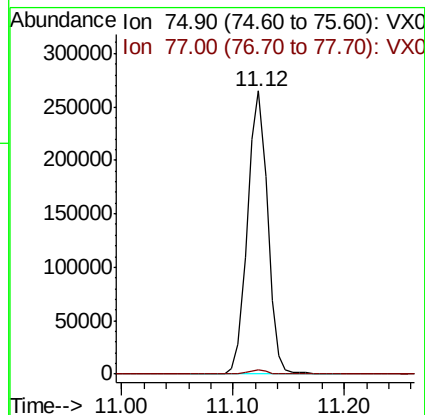
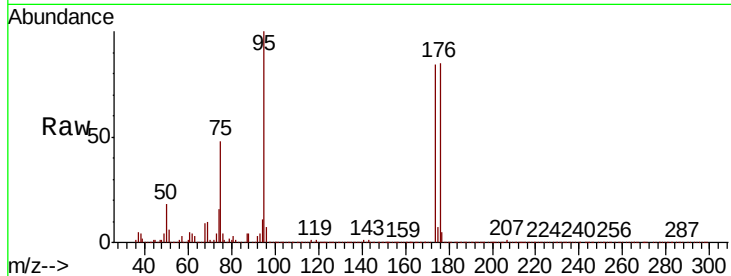
30962

Tot Ion: 75 Resp: 330728

Ion Ratio Lower Upper

75 100

77 1.5 21.3 63.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.729 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

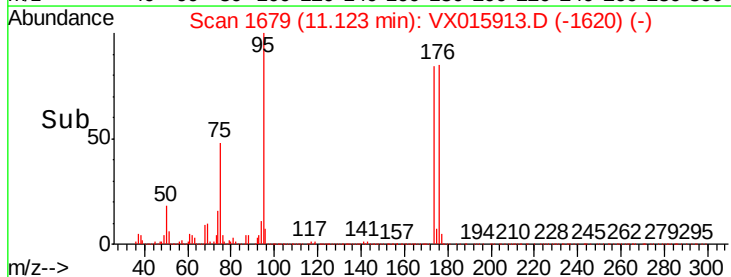
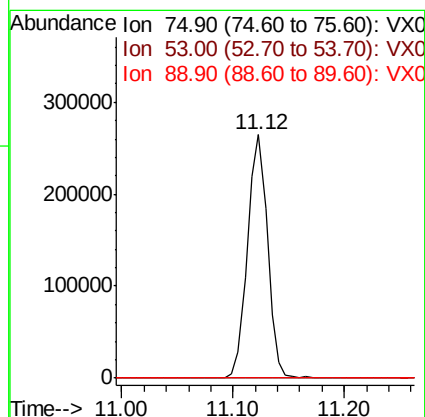
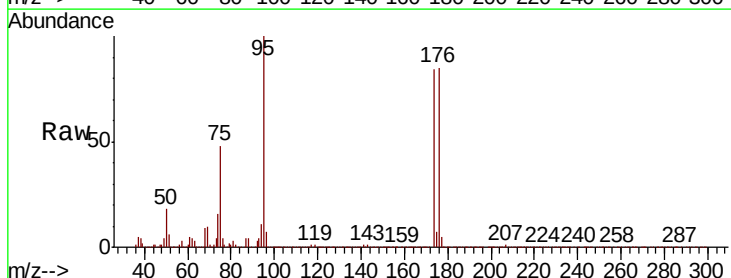
Tgt Ion: 75 Resp: 330728

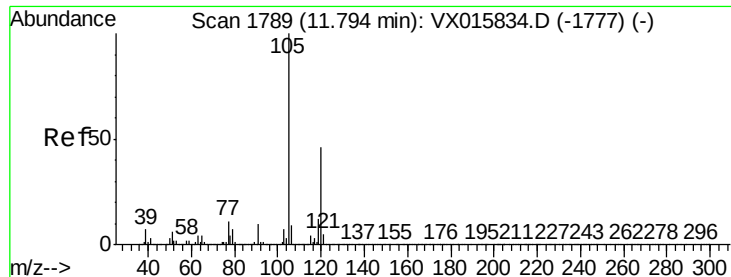
Ion Ratio Lower Upper

75 100

53 0.0 74.2 111.2#

89 0.2 38.0 57.0#





#84

1,2,4-Trimethylbenzene

Concen: 0.243 ug/l

RT: 11.79 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

Instrument :

MSVOA_X

ClientSampleId :

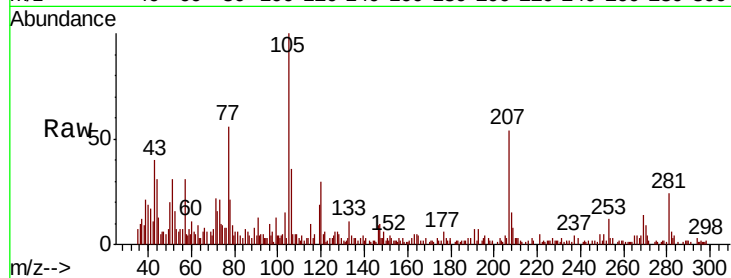
30962

Tot Ion:105 Resp: 9895

Ion Ratio Lower Upper

105 100

120 26.7 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

6000

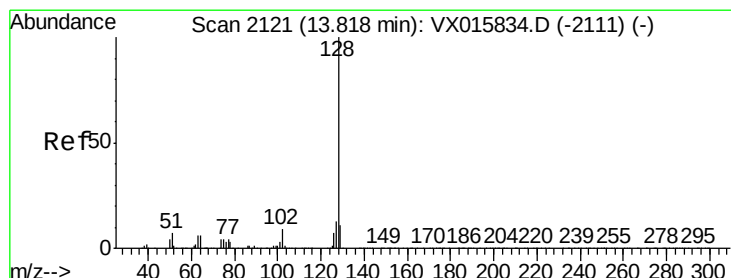
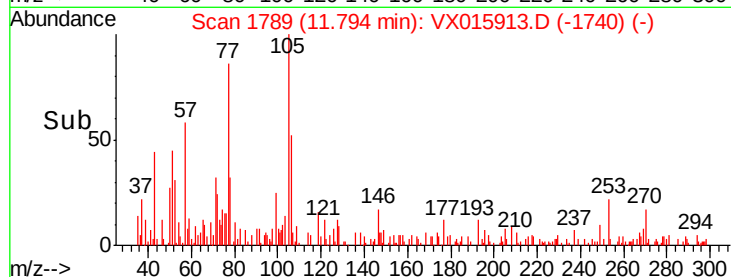
4000

2000

0

Time-->

11.75 11.80 11.85



#95

Naphthalene

Concen: 0.417 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. 0.00 min

Lab File: VX015913.D

Acq: 24 Apr 2020 00:34

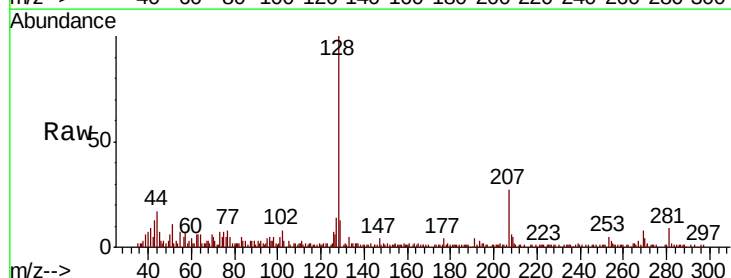
Tgt Ion:128 Resp: 20689

Ion Ratio Lower Upper

128 100

127 19.5 10.5 15.7#

129 12.4 8.5 12.7



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

13.82

20000

15000

10000

5000

0

Time-->

13.75 13.80 13.85 13.90

