

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062819\
 Data File : VX010560.D
 Acq On : 29 Jun 2019 01:54
 Operator : JC/SP
 Sample : PB120994TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB120994TB

Quant Time: Jun 29 04:45:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	405406	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	372912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171169	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	124918	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
35) Dibromofluoromethane	5.50	113	121480	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
50) Toluene-d8	8.71	98	483800	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	11.13	95	162288	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	

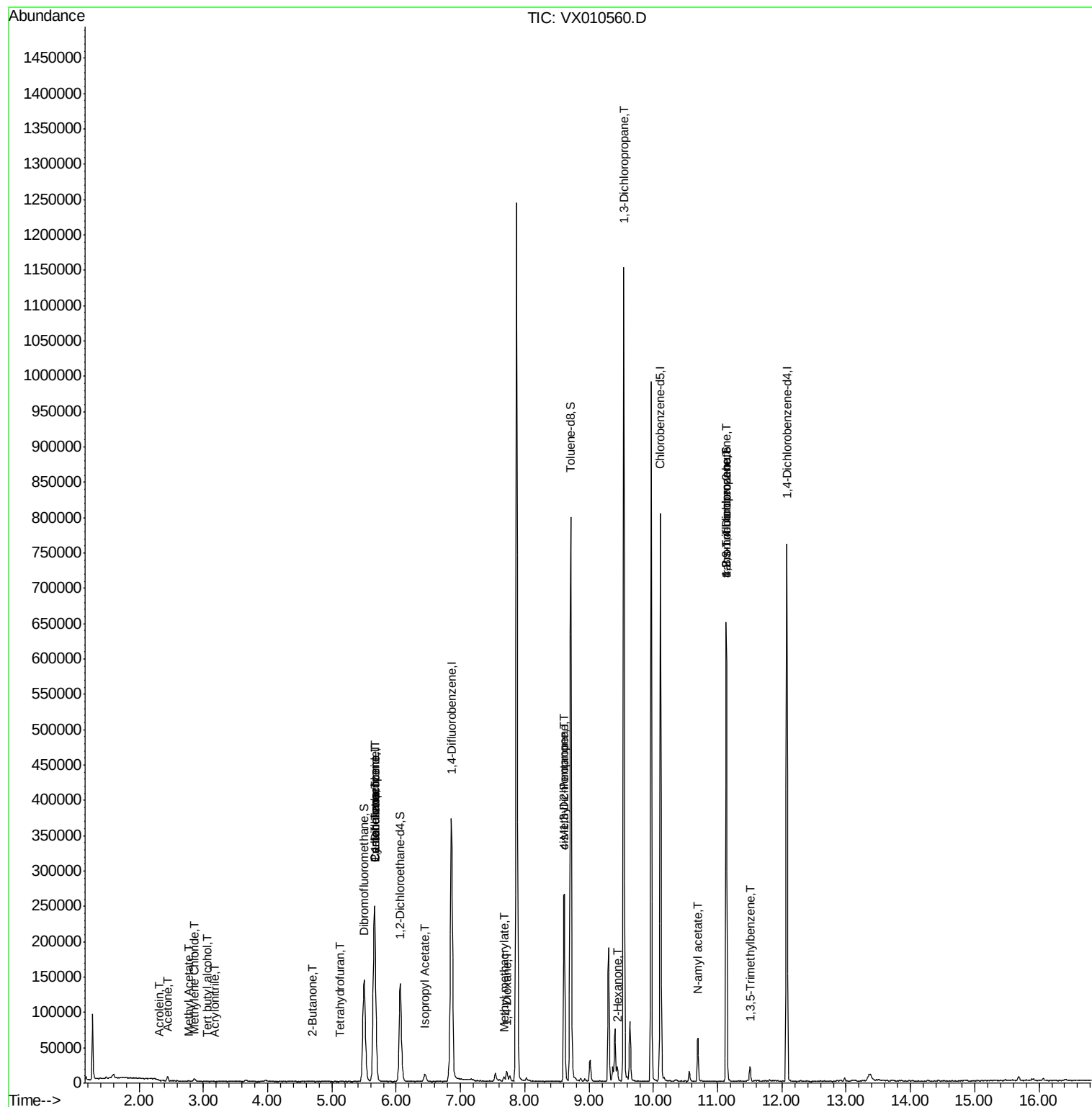
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.05	59	419	0.650	ug/l #	86
13) Acrolein	2.32	56	87	0.203	ug/l #	14
15) Acrylonitrile	3.18	53	296	0.232	ug/l #	63
16) Acetone	2.44	43	6409	5.190	ug/l	90
18) Methyl Acetate	2.78	43	1499	0.609	ug/l	100
20) Methylene Chloride	2.85	84	1831	0.720	ug/l	91
25) 2-Butanone	4.70	43	936	0.517	ug/l	94
29) Tetrahydrofuran	5.12	42	426	0.380	ug/l #	28
31) Cyclohexane	5.67	56	4605	1.294	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16355	5.077	ug/l #	47
38) Carbon Tetrachloride	5.66	117	22692	6.505	ug/l #	15
43) Isopropyl Acetate	6.45	43	14881	2.714	ug/l	96
48) Methyl methacrylate	7.68	41	7684	3.015	ug/l #	10
49) 1,4-Dioxane	7.72	88	19	0.259	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	85634	24.419	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	46815	11.530	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	10220	2.415	ug/l #	43
59) 2-Hexanone	9.44	43	12523	4.537	ug/l #	22
74) N-amyl acetate	10.69	43	13352	3.045	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	77245	24.765	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	9337	0.976	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	77245	57.774	ug/l #	16

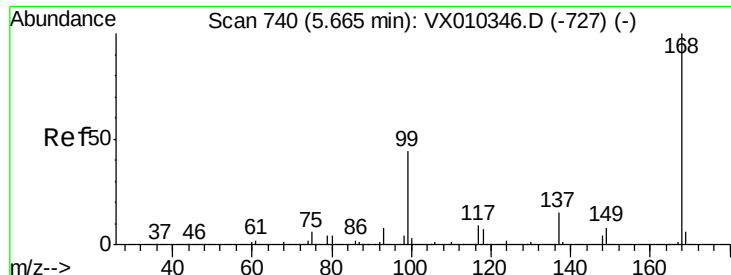
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062819\
Data File : VX010560.D
Acq On : 29 Jun 2019 01:54
Operator : JC/SP
Sample : PB120994TB
Misc : 5.0mL/MSVOA X/WATER
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Instrument :
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ClientSampleId :
PB120994TB

Quant Time: Jun 29 04:45:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampled :

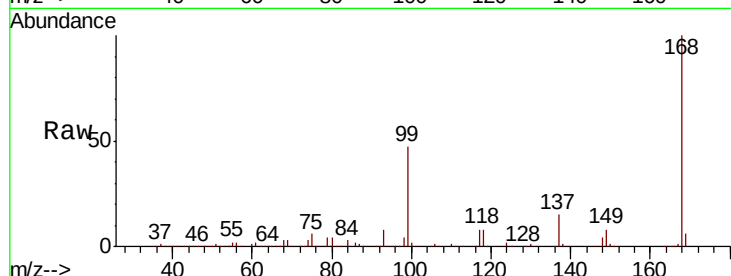
PB120994TB

Tot Ion:168 Resp: 262813

Ion Ratio Lower Upper

168 100

99 47.0 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

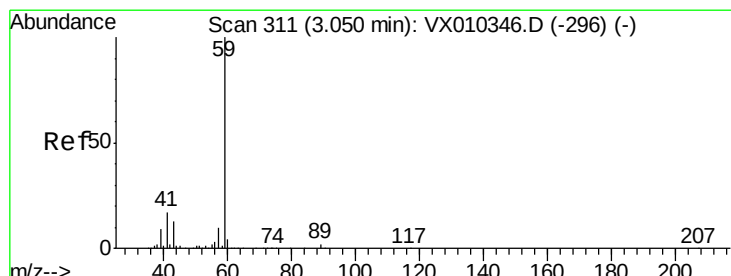
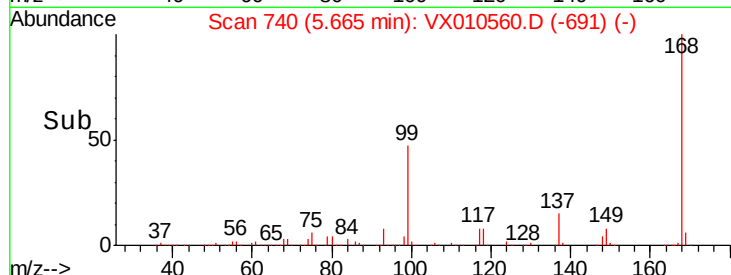
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.650 ug/l

RT: 3.05 min Scan# 311

Delta R.T. 0.00 min

Lab File: VX010560.D

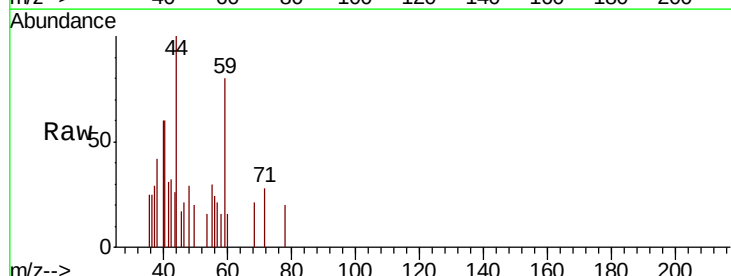
Acq: 29 Jun 2019 01:54

Tgt Ion: 59 Resp: 419

Ion Ratio Lower Upper

59 100

57 14.6 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

300

250

200

150

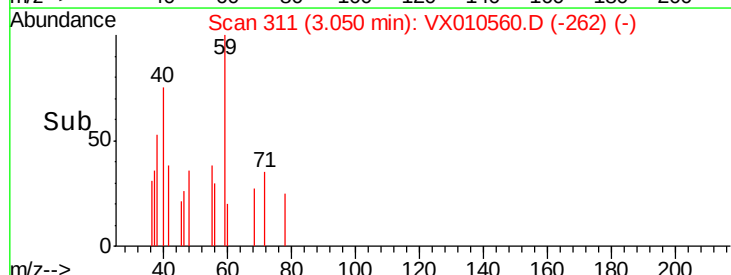
100

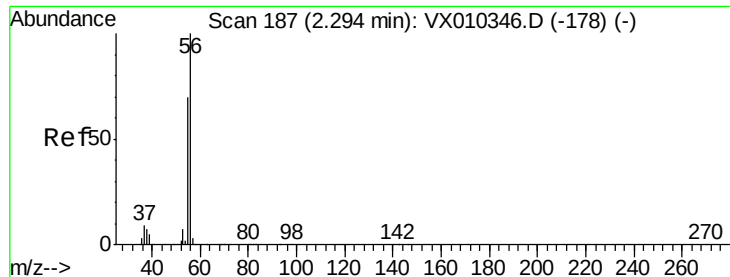
50

0

Time-->

3.00 3.05 3.10





#13

Acrolein

Concen: 0.203 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampled :

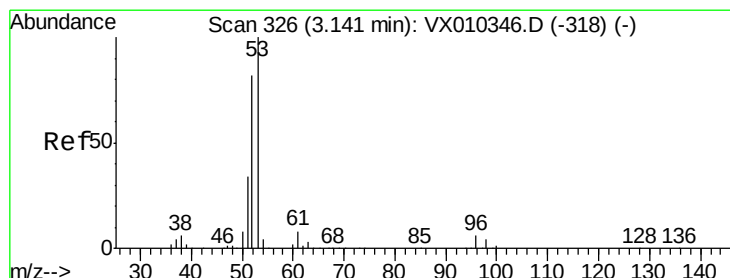
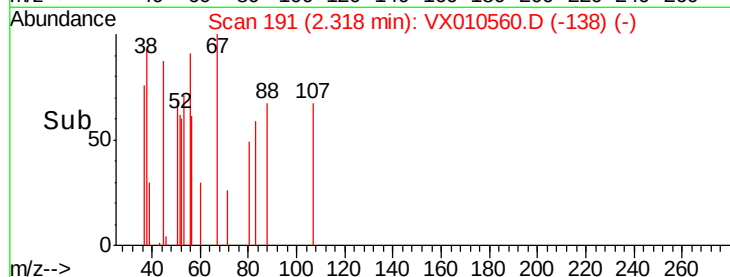
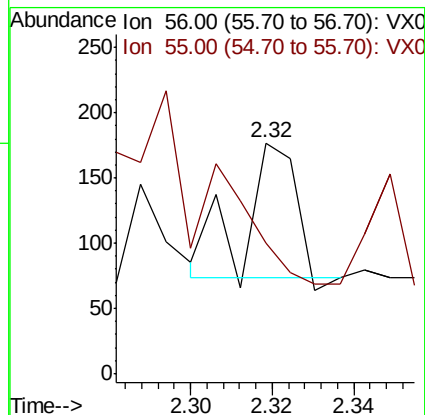
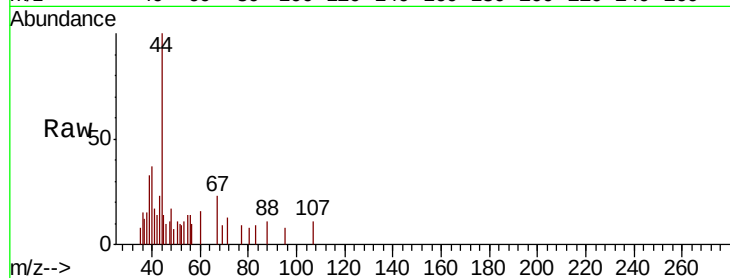
PB120994TB

Tot Ion: 56 Resp: 87

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#15

Acrylonitrile

Concen: 0.232 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.04 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

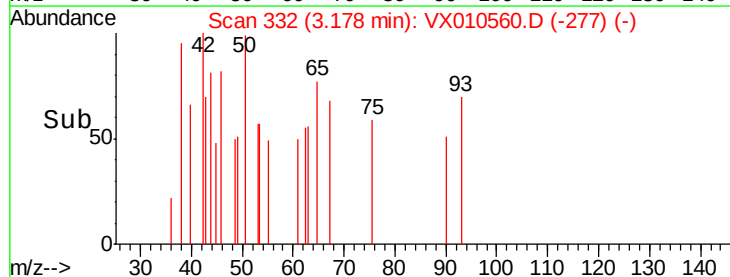
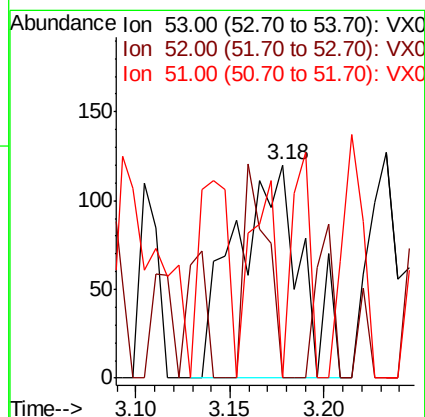
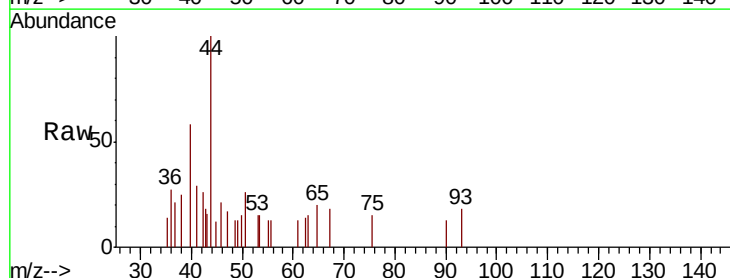
Tgt Ion: 53 Resp: 296

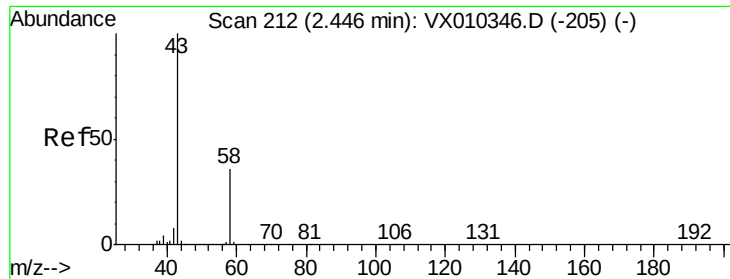
Ion Ratio Lower Upper

53 100

52 34.8 65.5 98.3#

51 34.5 28.2 42.4





#16

Acetone

Concen: 5.190 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

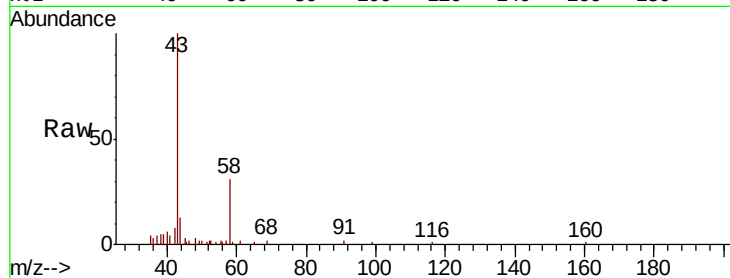
PB120994TB

Tot Ion: 43 Resp: 6409

Ion Ratio Lower Upper

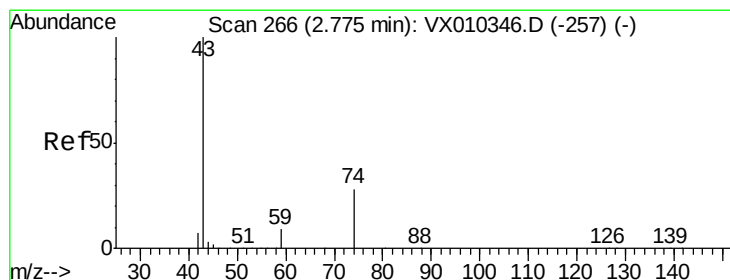
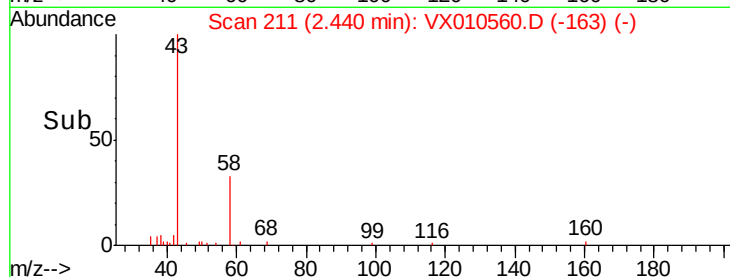
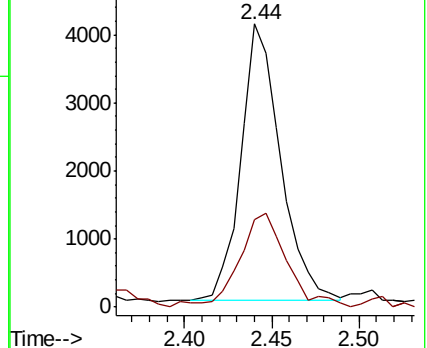
43 100

58 30.0 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.609 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010560.D

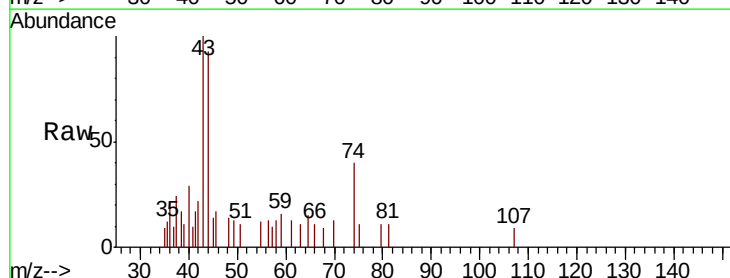
Acq: 29 Jun 2019 01:54

Tgt Ion: 43 Resp: 1499

Ion Ratio Lower Upper

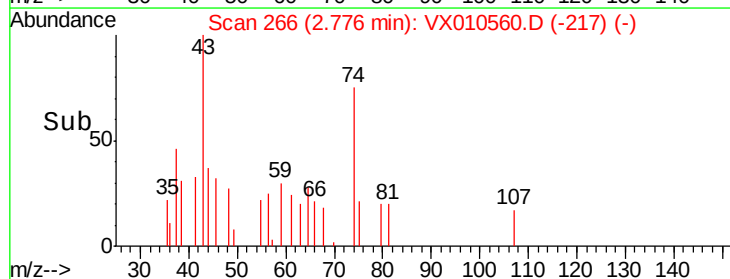
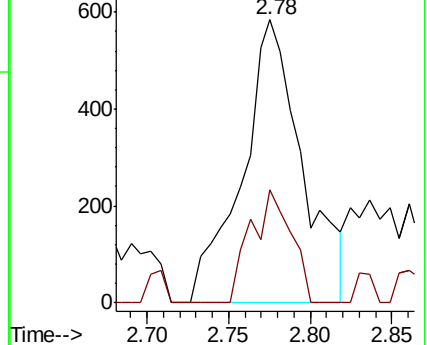
43 100

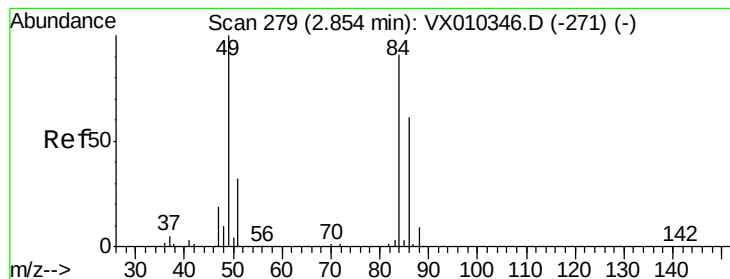
74 26.6 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 0.720 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

PB120994TB

Tot Ion: 84 Resp: 1831

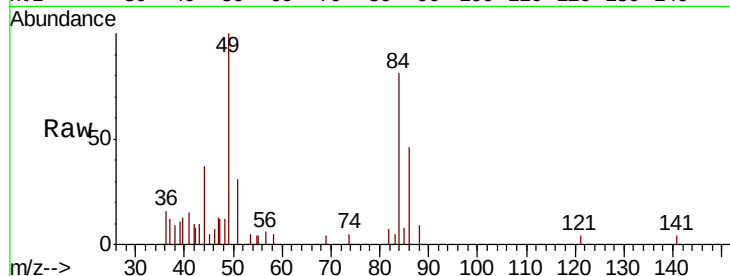
Ion Ratio Lower Upper

84 100

49 117.0 87.5 131.3

51 31.0 27.7 41.5

86 57.1 53.4 80.0



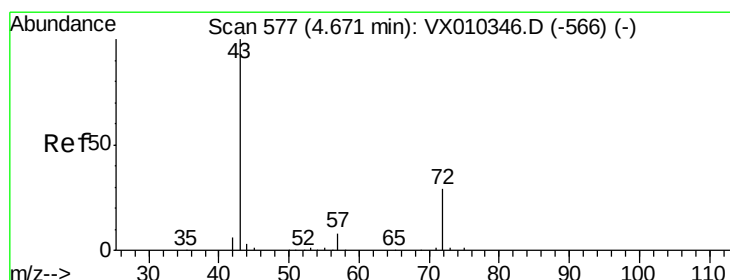
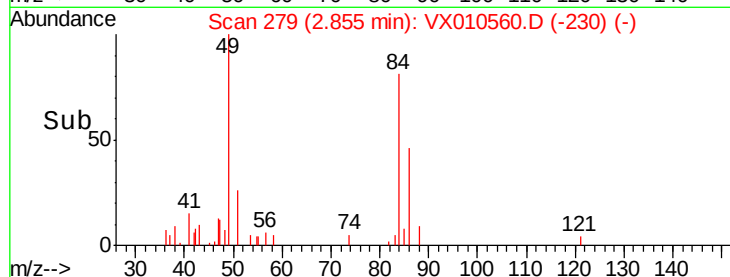
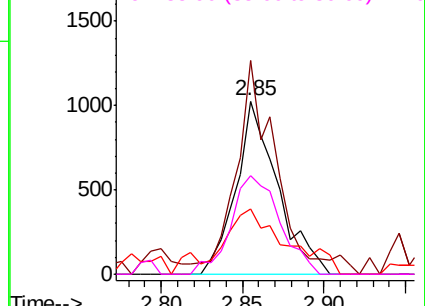
Abundance

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: 0.517 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010560.D

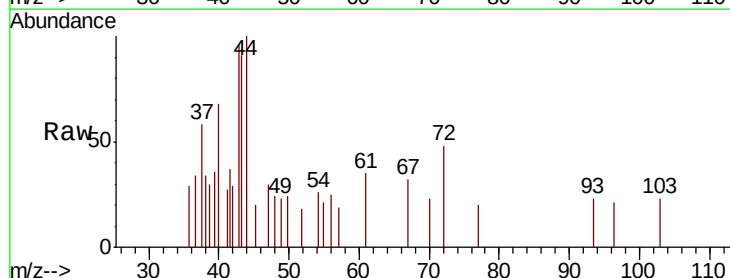
Acq: 29 Jun 2019 01:54

Tgt Ion: 43 Resp: 936

Ion Ratio Lower Upper

43 100

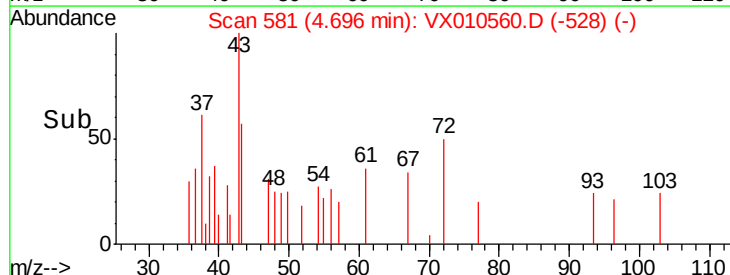
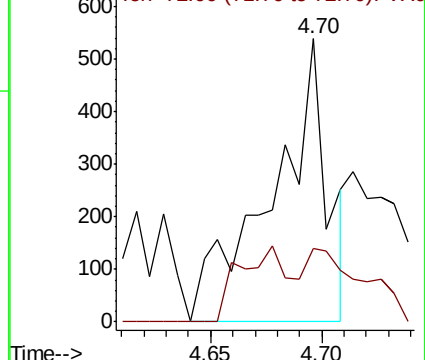
72 25.8 23.3 34.9

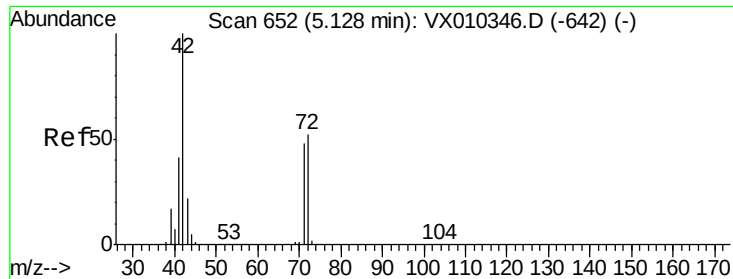


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.380 ug/l

RT: 5.12 min Scan# 650

Delta R.T. -0.01 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampled :

PB120994TB

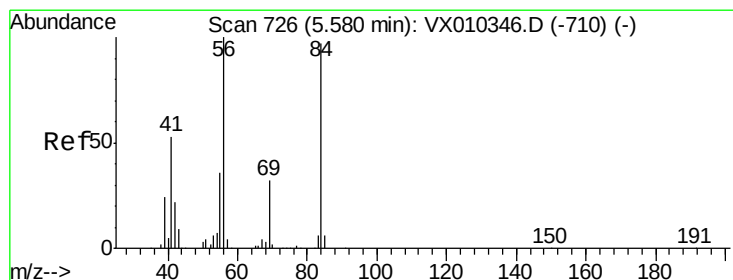
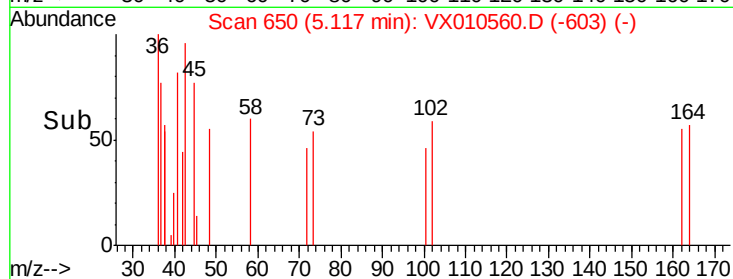
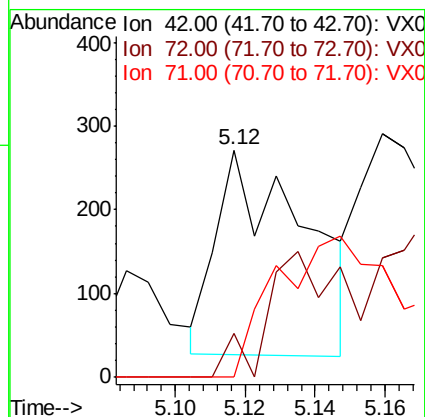
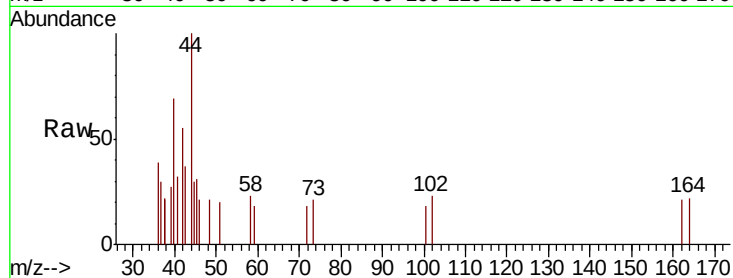
Tot Ion: 42 Resp: 426

Ion Ratio Lower Upper

42 100

72 0.0 40.6 60.8#

71 0.0 37.8 56.8#



#31

Cyclohexane

Concen: 1.294 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

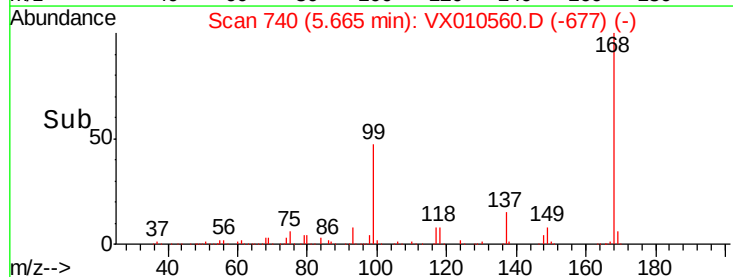
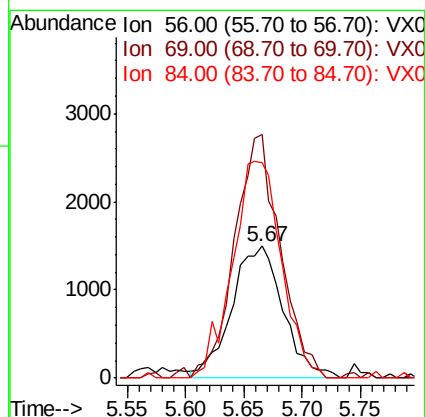
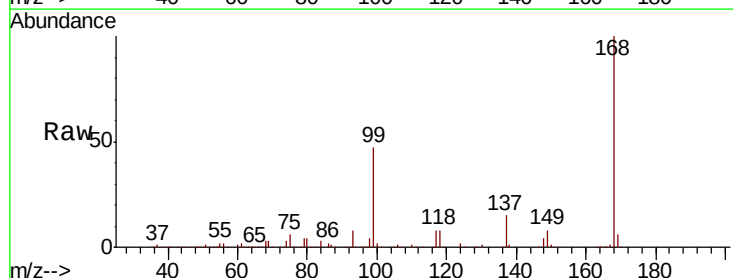
Tgt Ion: 56 Resp: 4605

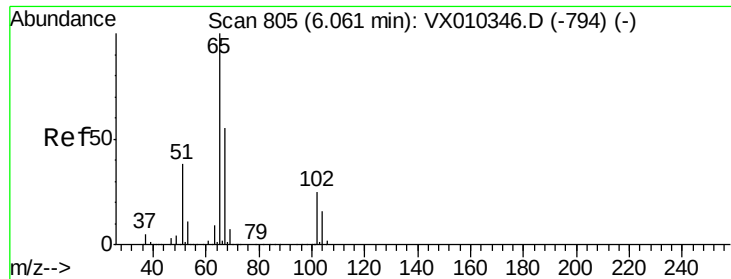
Ion Ratio Lower Upper

56 100

69 184.5 25.9 38.9#

84 163.2 78.0 117.0#

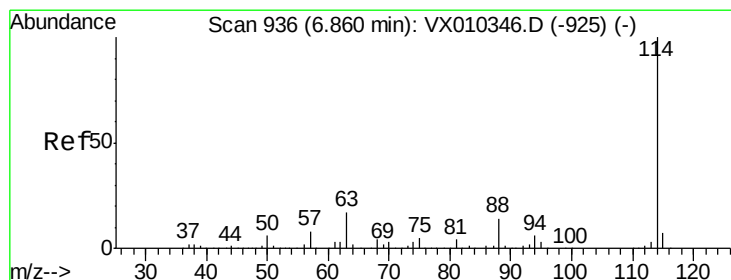
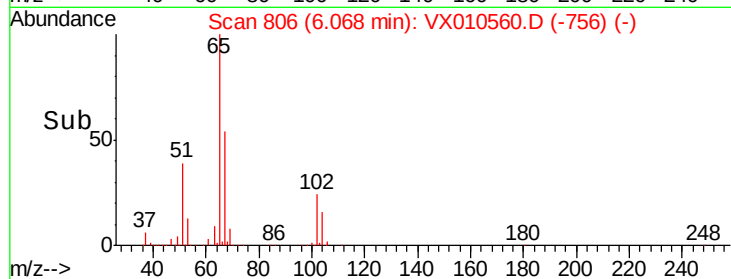
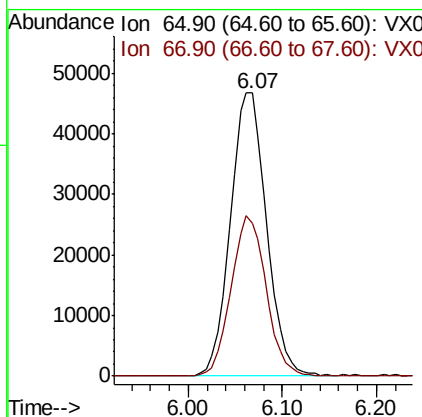
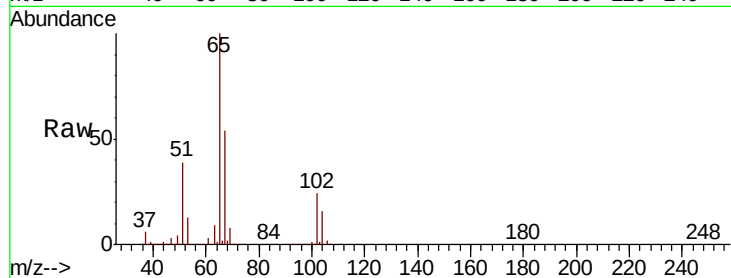




#33
 1,2-Dichloroethane-d4
 Concen: 50.694 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX010560.D
 Acq: 29 Jun 2019 01:54

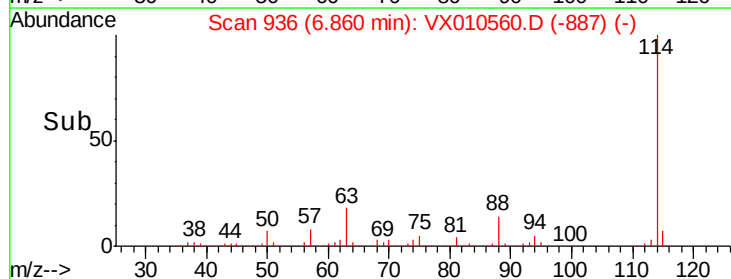
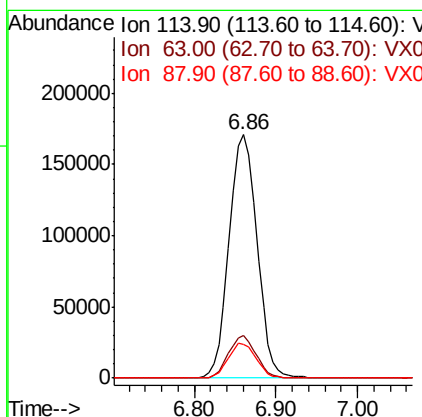
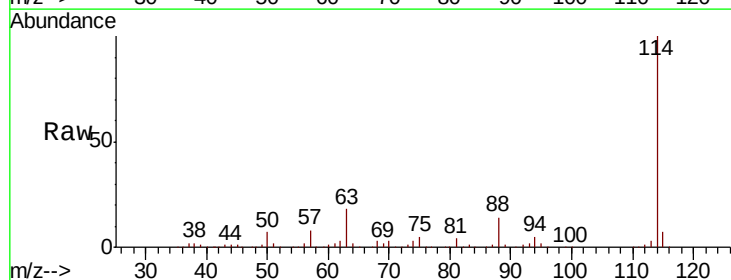
Instrument :
 MSVOA_X
 ClientSampleId :
 PB120994TB

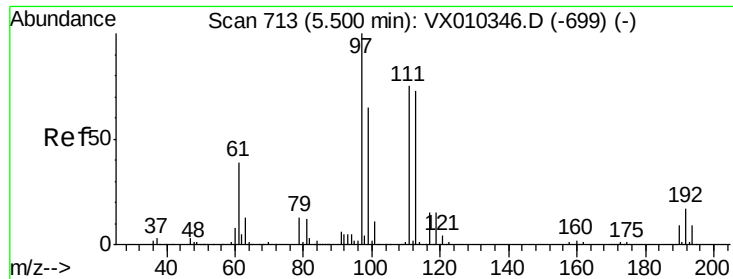
Tot Ion: 65 Resp: 124918
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010560.D
 Acq: 29 Jun 2019 01:54

Tgt Ion: 114 Resp: 405406
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 33.8
 88 14.0 0.0 27.6





#35

Dibromofluoromethane

Concen: 48.976 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

PB120994TB

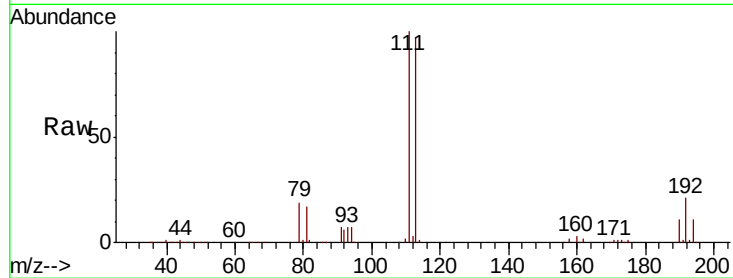
Tot Ion:113 Resp: 121480

Ion Ratio Lower Upper

113 100

111 102.8 81.2 121.8

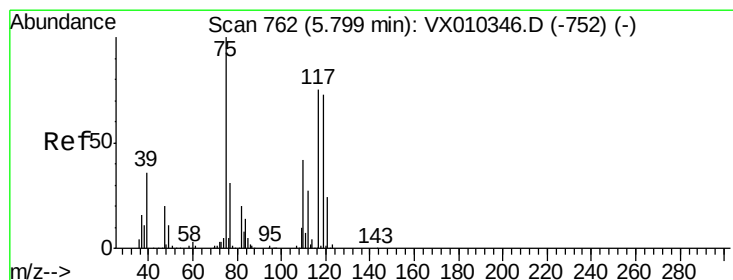
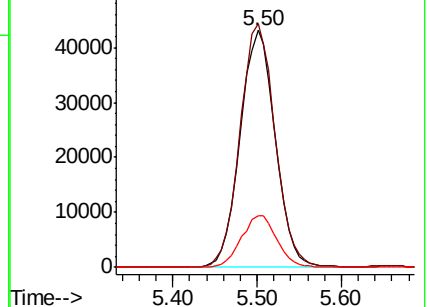
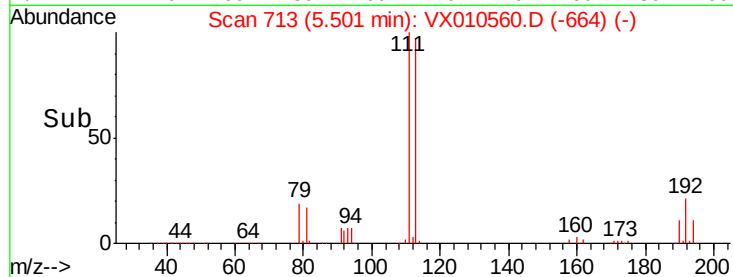
192 22.2 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.077 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

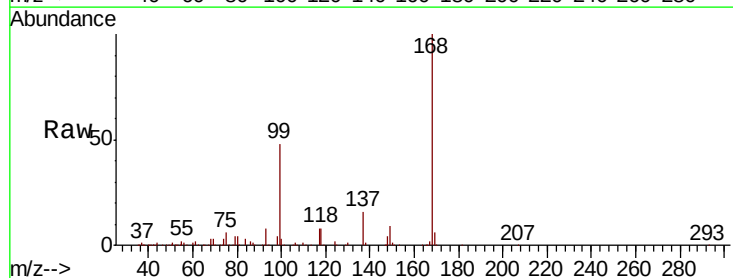
Tgt Ion: 75 Resp: 16355

Ion Ratio Lower Upper

75 100

110 10.5 20.8 62.2#

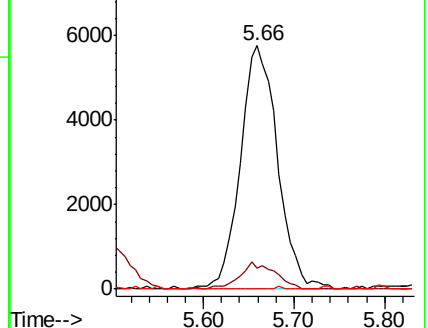
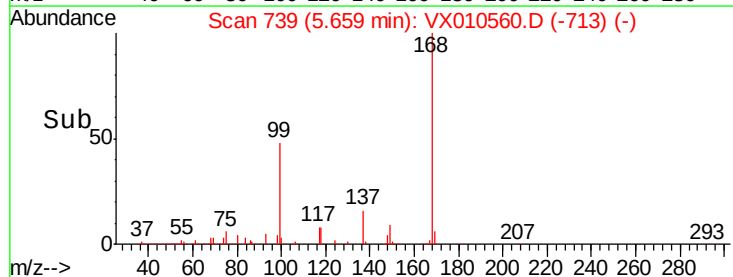
77 0.0 25.4 38.0#

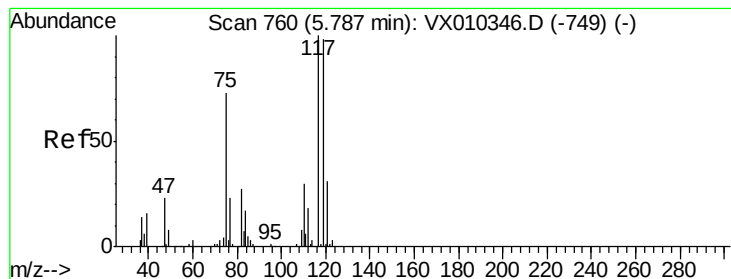


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.505 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampled :

PB120994TB

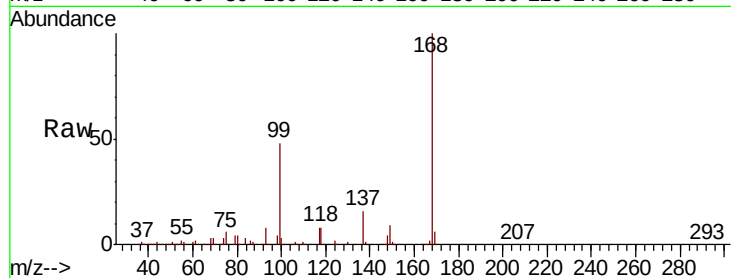
Tot Ion:117 Resp: 22692

Ion Ratio Lower Upper

117 100

119 5.4 78.2 117.4#

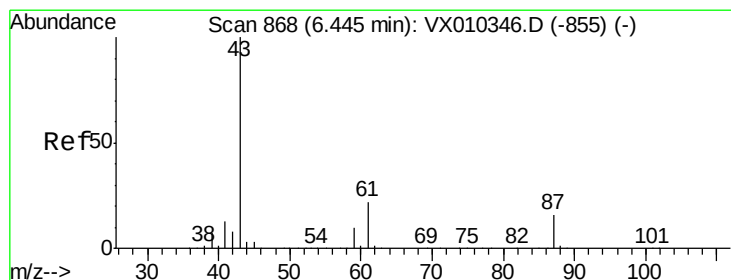
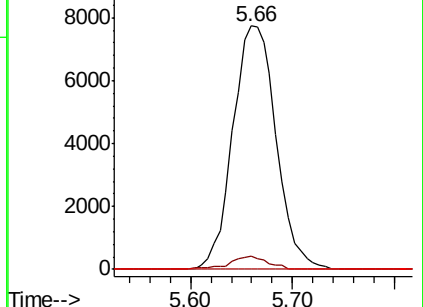
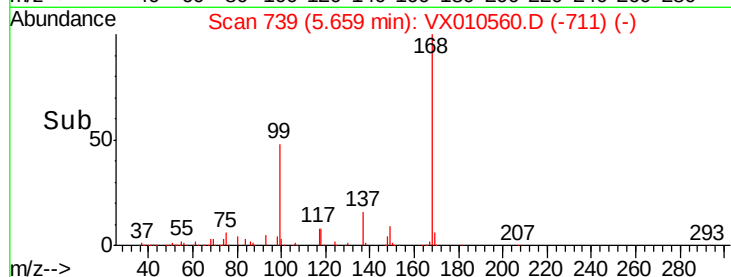
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.714 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

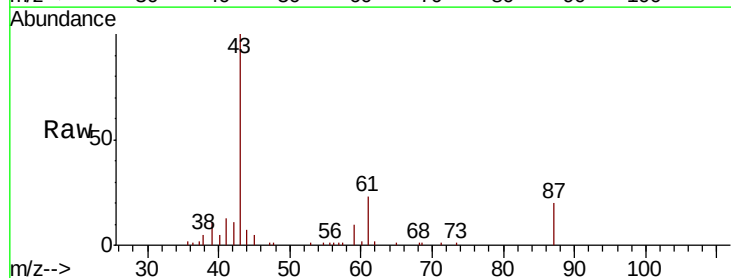
Tgt Ion: 43 Resp: 14881

Ion Ratio Lower Upper

43 100

61 23.5 17.8 26.6

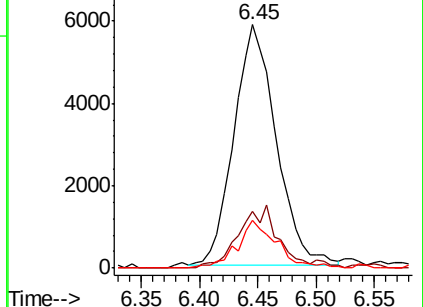
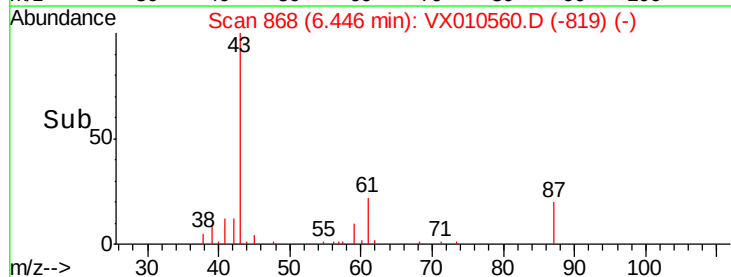
87 18.5 13.0 19.4

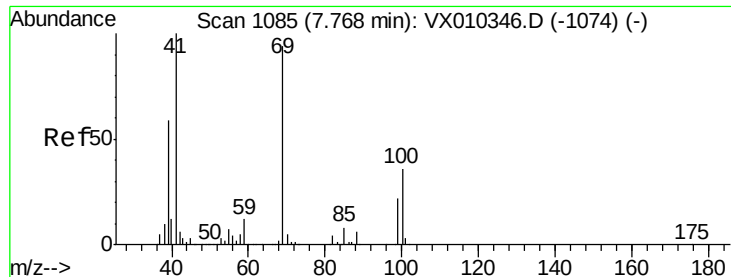


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

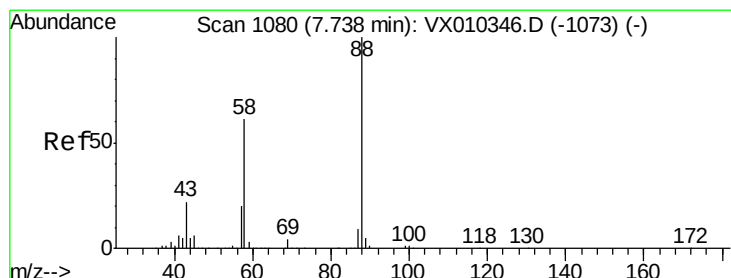
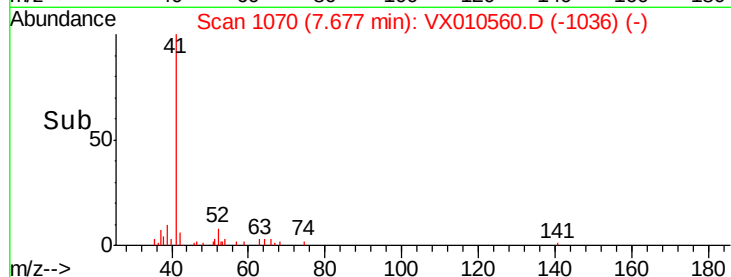
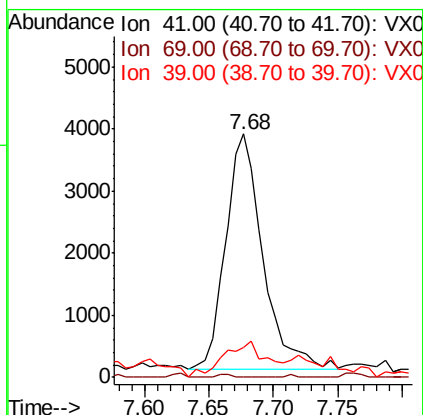
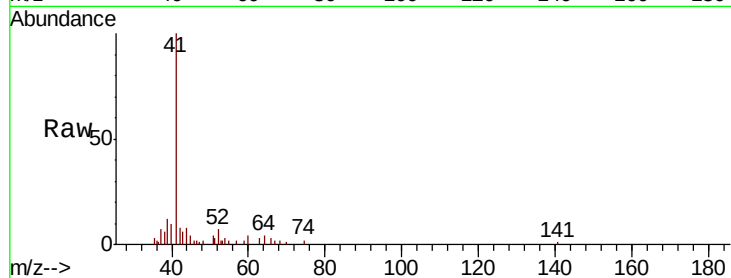




#48
Methvl methacrylate
Concen: 3.015 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

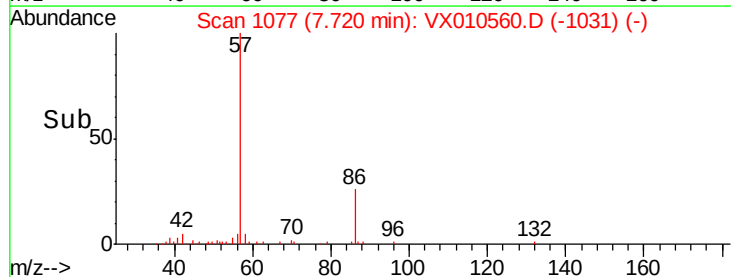
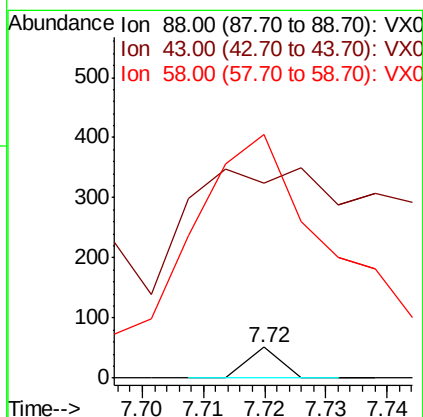
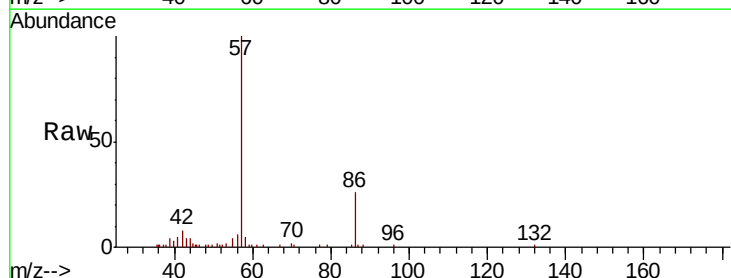
Instrument :
MSVOA_X
ClientSampleId :
PB120994TB

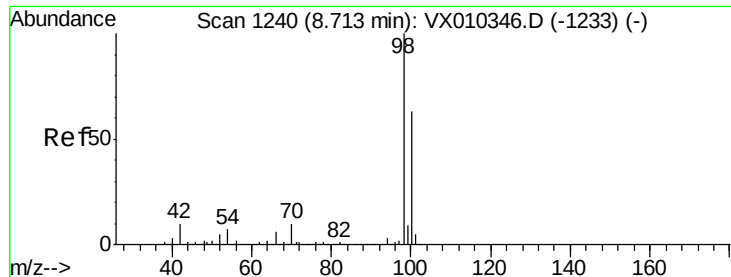
Tot Ion: 41 Resp: 7684
Ion Ratio Lower Upper
41 100
69 0.5 76.1 114.1#
39 0.0 47.6 71.4#



#49
1,4-Dioxane
Concen: 0.259 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.02 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 3963.2 49.5 74.3#





#50

Toluene-d8

Concen: 50.982 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

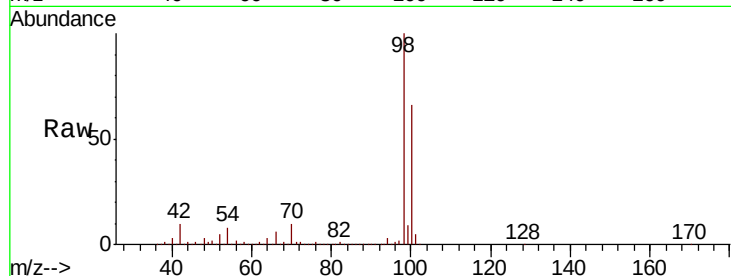
PB120994TB

Tot Ion: 98 Resp: 483800

Ion Ratio Lower Upper

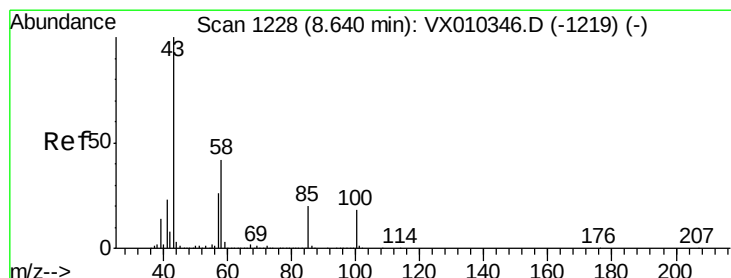
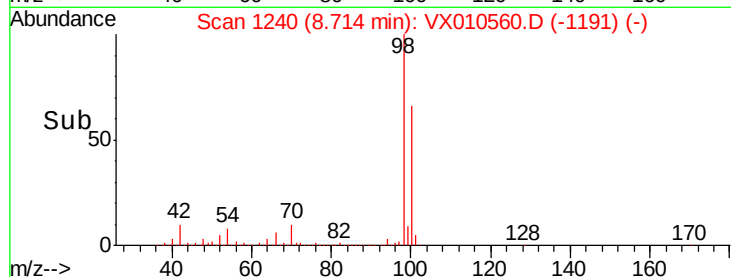
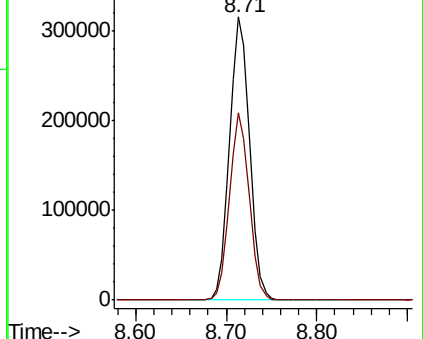
98 100

100 65.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 24.419 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VX010560.D

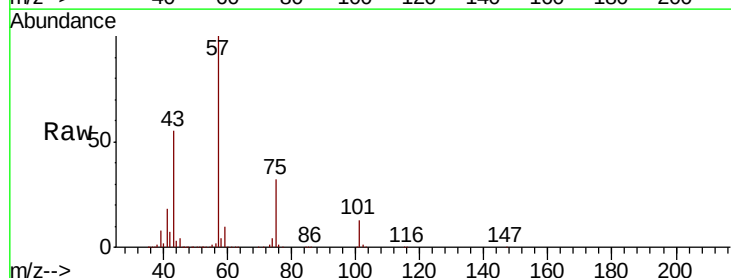
Acq: 29 Jun 2019 01:54

Tgt Ion: 43 Resp: 85634

Ion Ratio Lower Upper

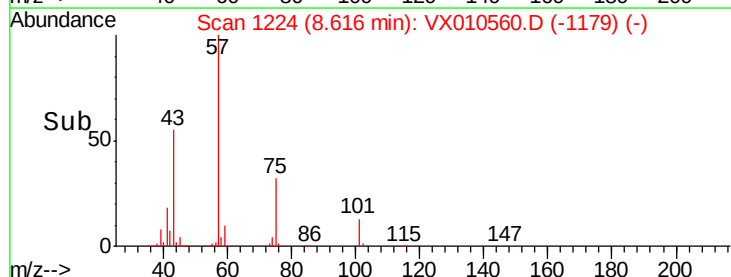
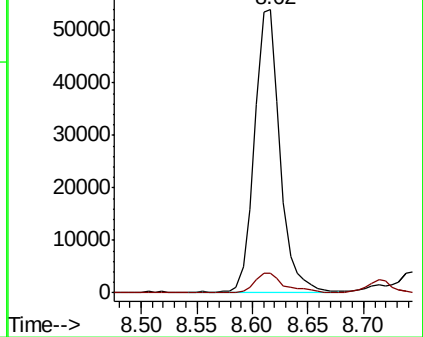
43 100

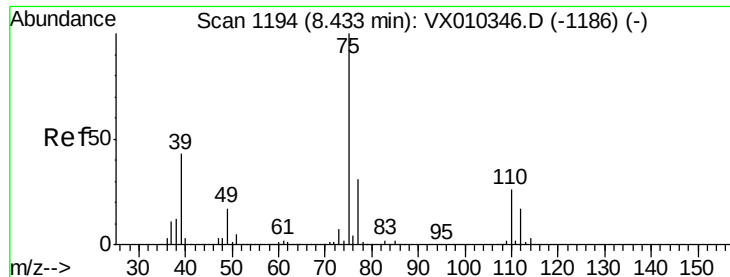
58 8.4 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 11.530 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

PB120994TB

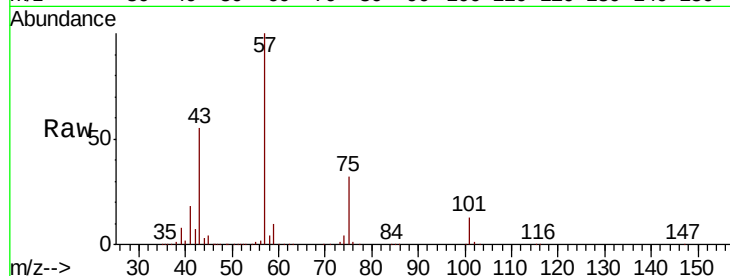
Tot Ion: 75 Resp: 46815

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

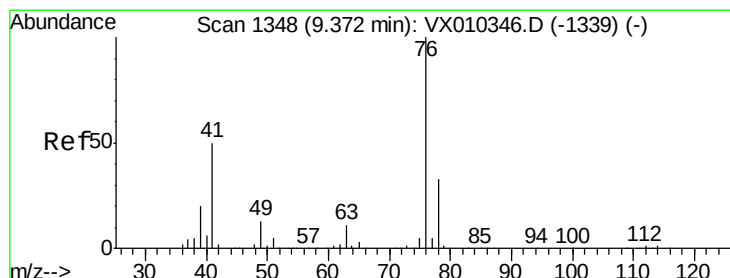
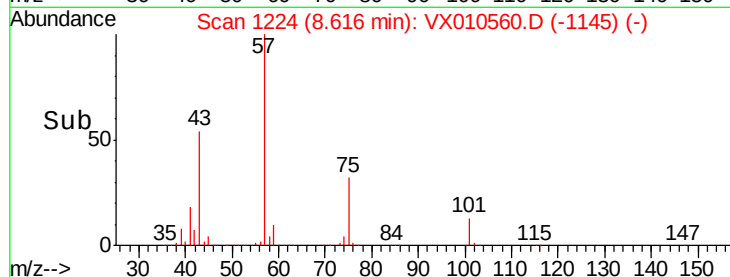
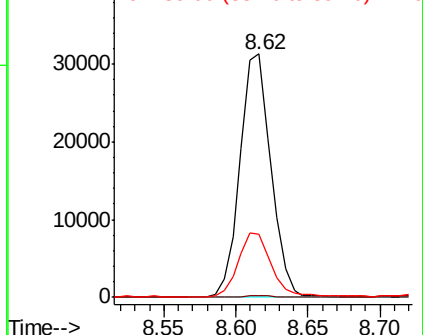
39 25.6 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.415 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX010560.D

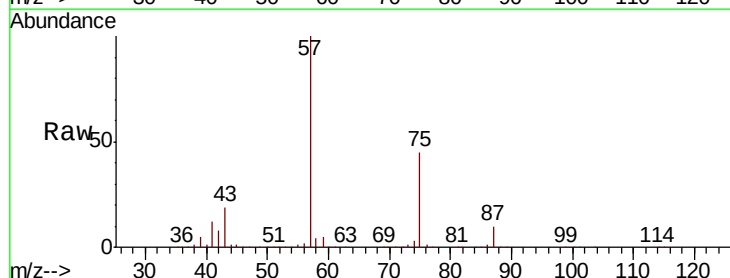
Acq: 29 Jun 2019 01:54

Tgt Ion: 76 Resp: 10220

Ion Ratio Lower Upper

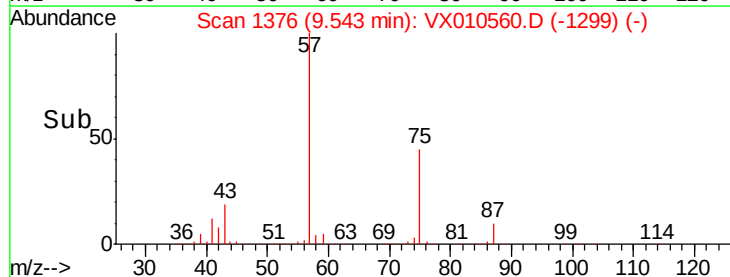
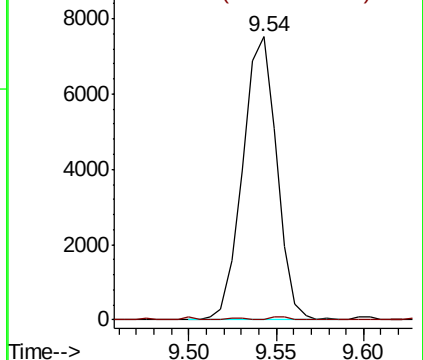
76 100

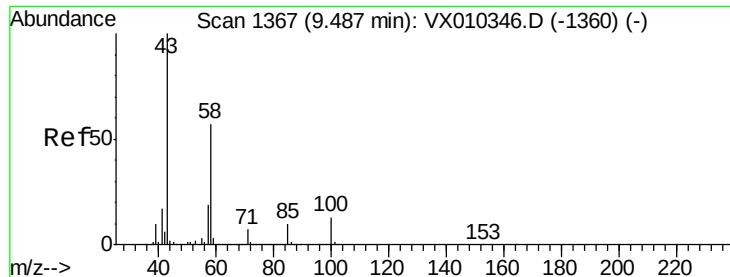
78 0.7 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

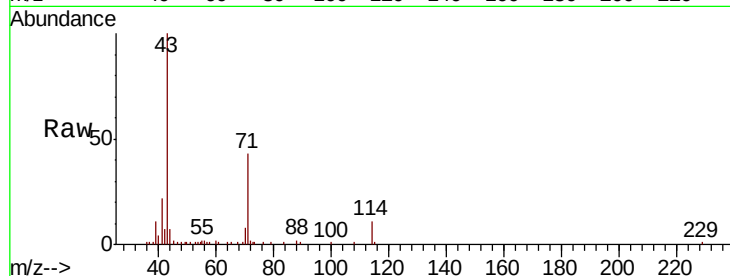




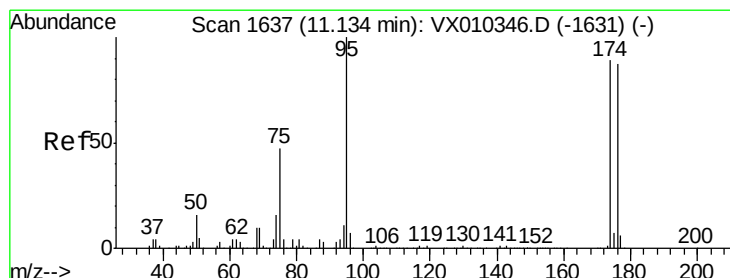
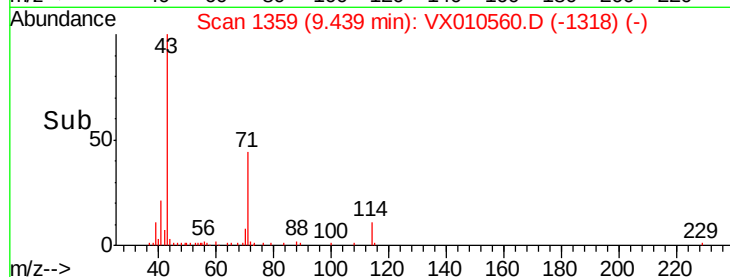
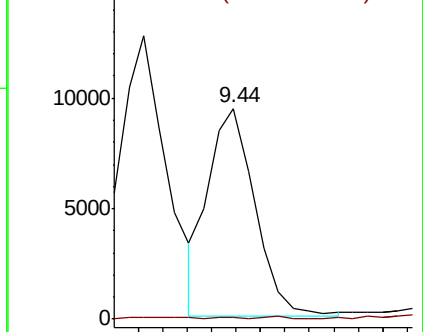
#59
2-Hexanone
Concen: 4.537 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.05 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

Instrument :
MSVOA_X
ClientSampleId :
PB120994TB

Tot Ion: 43 Resp: 12523
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.1#

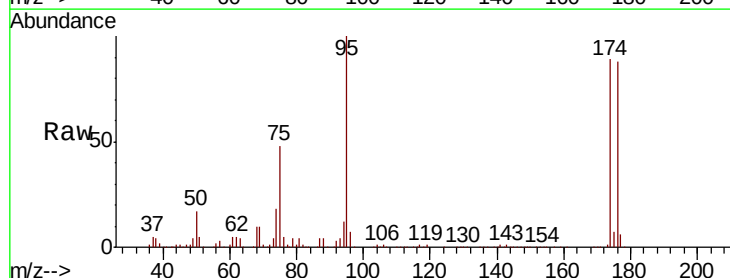


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

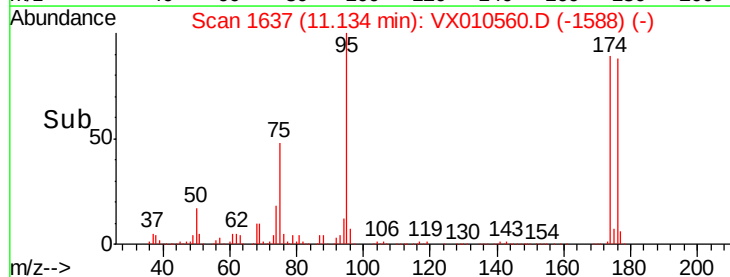
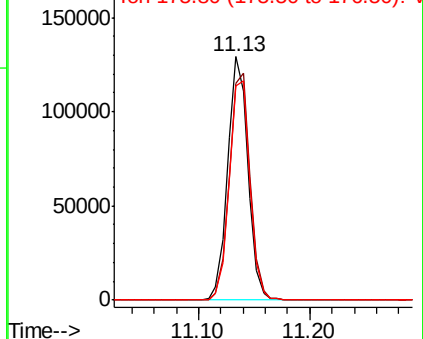


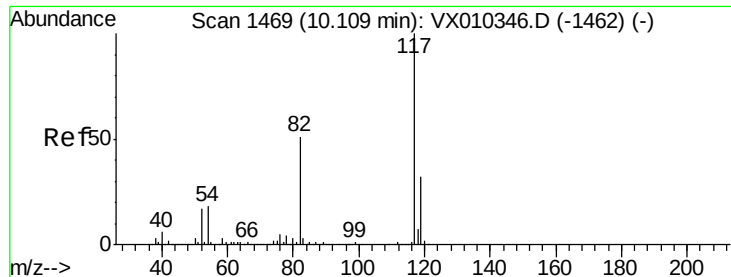
#62
4-Bromofluorobenzene
Concen: 47.369 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

Tgt Ion: 95 Resp: 162288
Ion Ratio Lower Upper
95 100
174 95.2 0.0 187.6
176 92.1 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

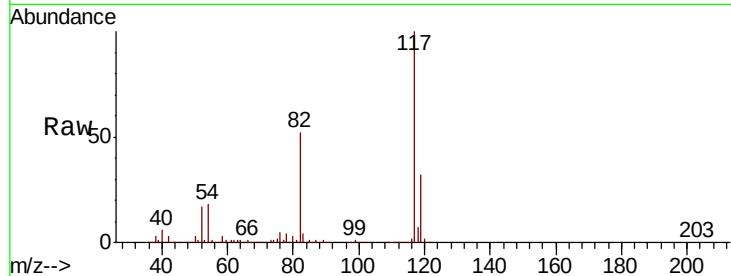




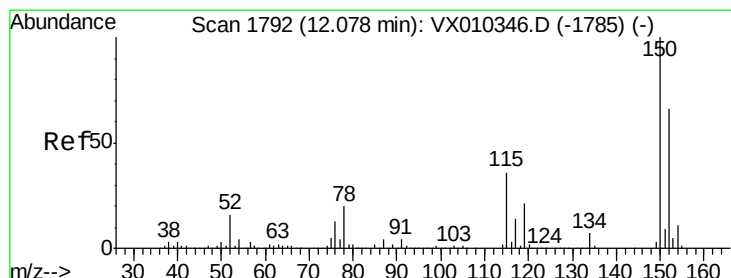
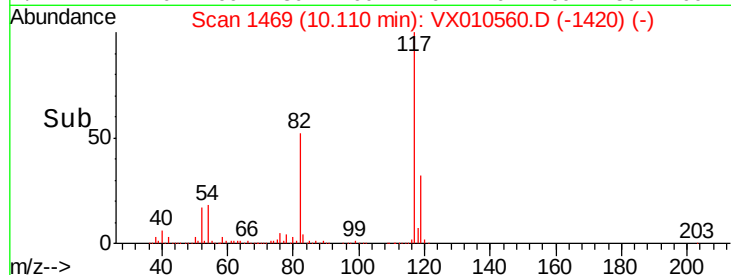
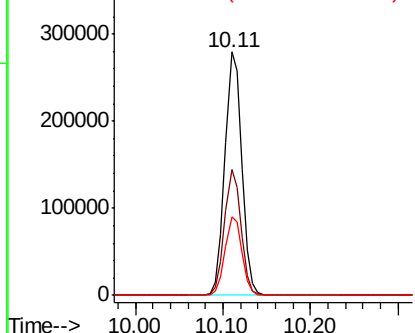
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

Instrument :
MSVOA_X
ClientSampleId :
PB120994TB

Tot Ion:117 Resp: 372912
Ion Ratio Lower Upper
117 100
82 51.8 41.2 61.8
119 32.2 25.5 38.3

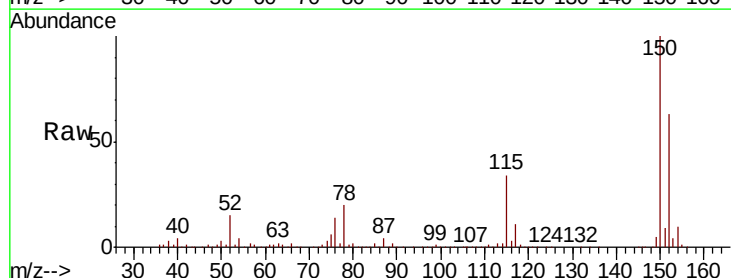


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

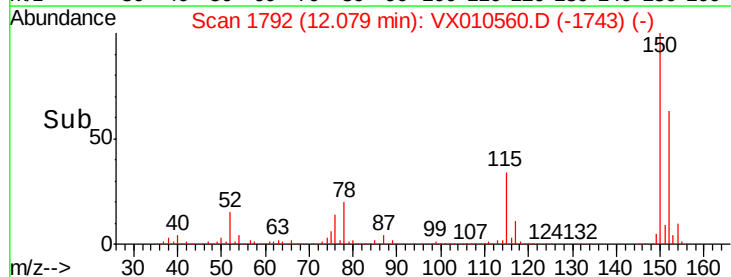
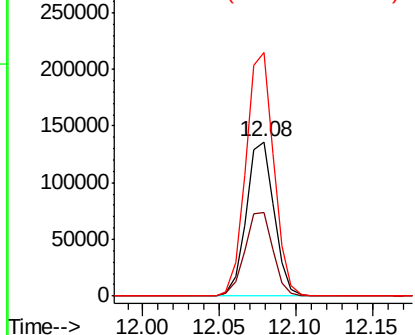


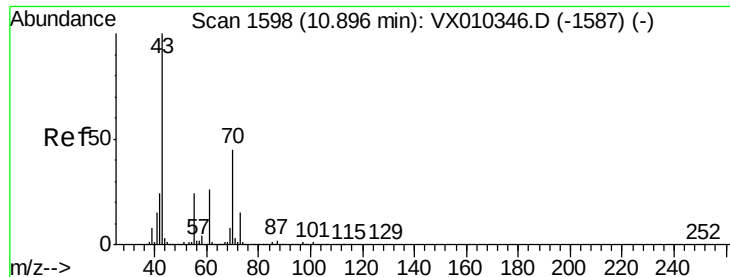
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010560.D
Acq: 29 Jun 2019 01:54

Tgt Ion:152 Resp: 171169
Ion Ratio Lower Upper
152 100
115 55.1 38.6 115.7
150 158.8 0.0 347.4



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-amvl acetate

Concen: 3.045 ug/l

RT: 10.69 min Scan# 1564

Delta R.T. -0.21 min

Lab File: VX010560.D

Acq: 29 Jun 2019 01:54

Instrument :

MSVOA_X

ClientSampleId :

PB120994TB

Tot Ion: 43 Resp: 13352

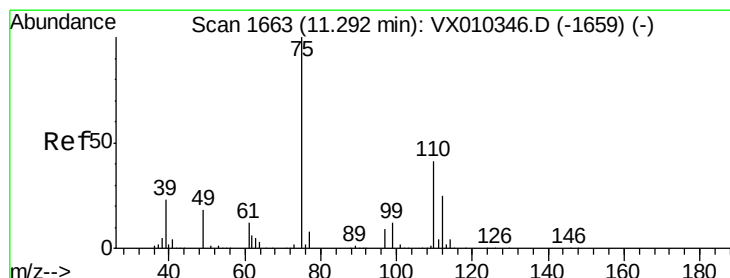
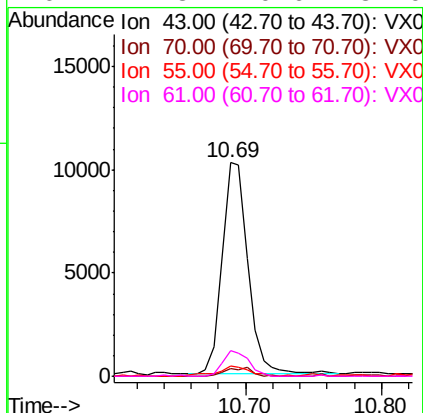
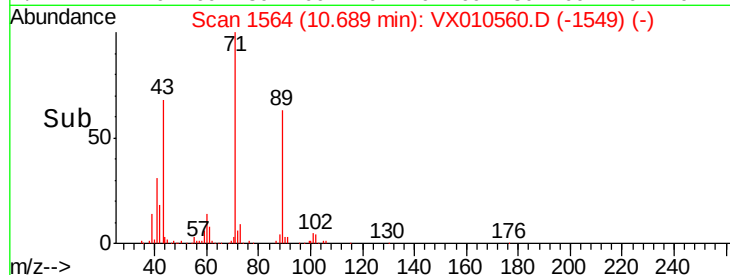
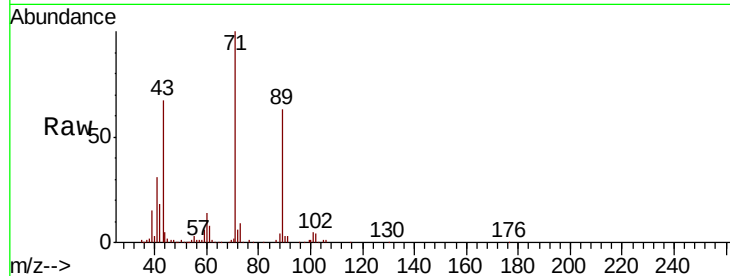
Ion Ratio Lower Upper

43 100

70 4.1 36.6 54.8#

55 6.1 18.7 28.1#

61 12.3 20.6 31.0#



#76

1,2,3-Trichloropropane

Concen: 24.765 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010560.D

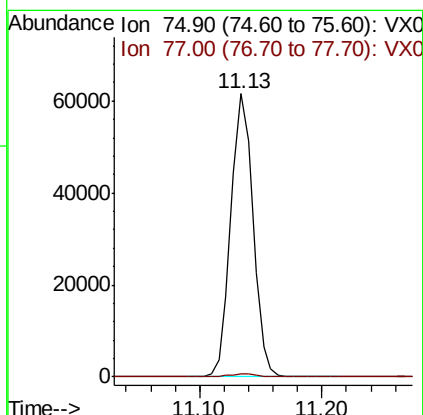
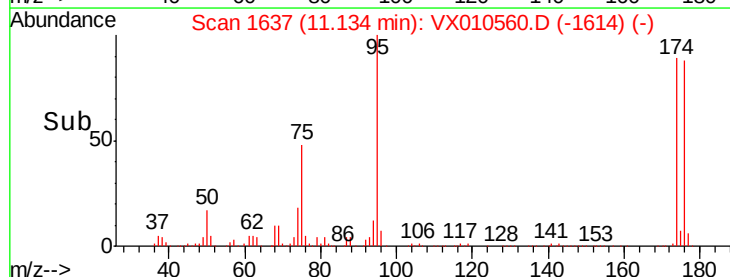
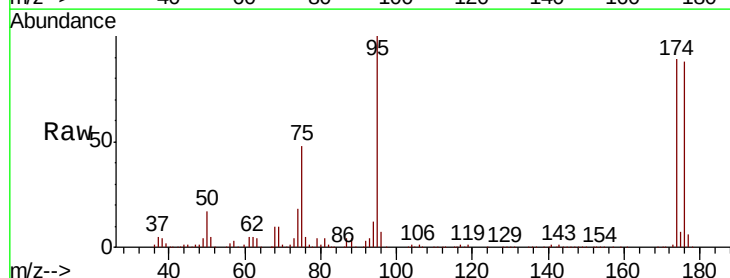
Acq: 29 Jun 2019 01:54

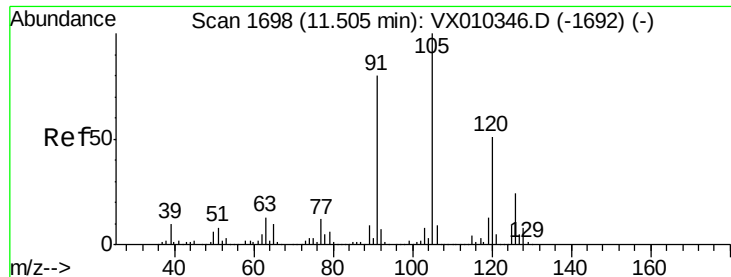
Tgt Ion: 75 Resp: 77245

Ion Ratio Lower Upper

75 100

77 1.2 22.6 67.8#

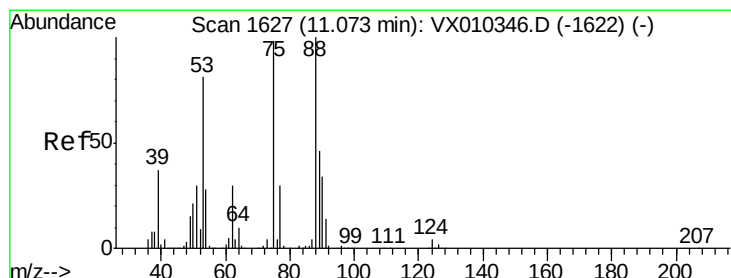
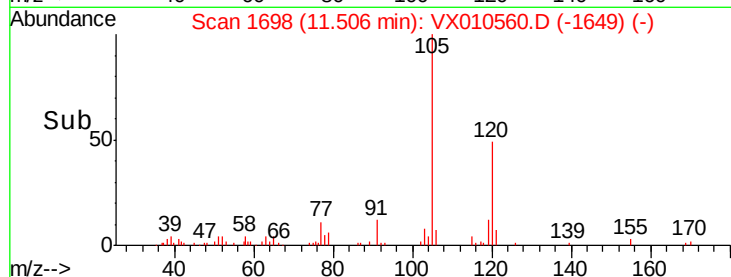
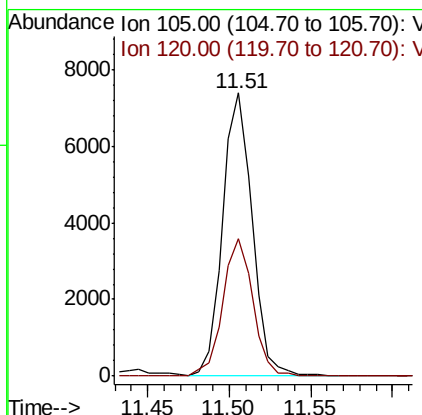
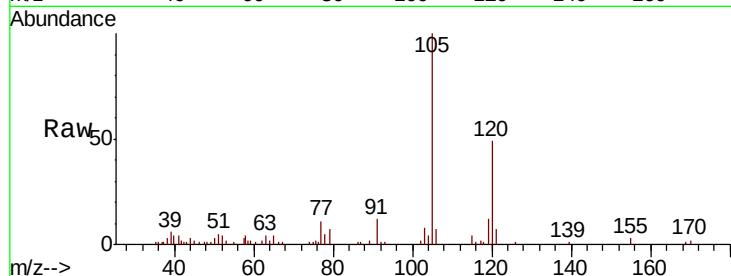




#80
 1,3,5-Trimethylbenzene
 Concen: 0.976 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX010560.D
 Acq: 29 Jun 2019 01:54

Instrument :
 MSVOA_X
 ClientSampleId :
 PB120994TB

Tot Ion:105 Resp: 9337
 Ion Ratio Lower Upper
 105 100
 120 49.4 25.2 75.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.774 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010560.D
 Acq: 29 Jun 2019 01:54

Tgt Ion: 75 Resp: 77245
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.1 99.1#
 89 0.2 37.8 56.6#

