

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022119\
 Data File : VX007625.D
 Acq On : 21 Feb 2019 12:42
 Operator : JC/SP
 Sample : PB117250TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250TB

Quant Time: Feb 22 04:30:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	477025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	756738	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	735573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	344532	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	260352	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
35) Dibromofluoromethane	5.51	113	249186	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	8.71	98	925520	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	11.13	95	324165	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

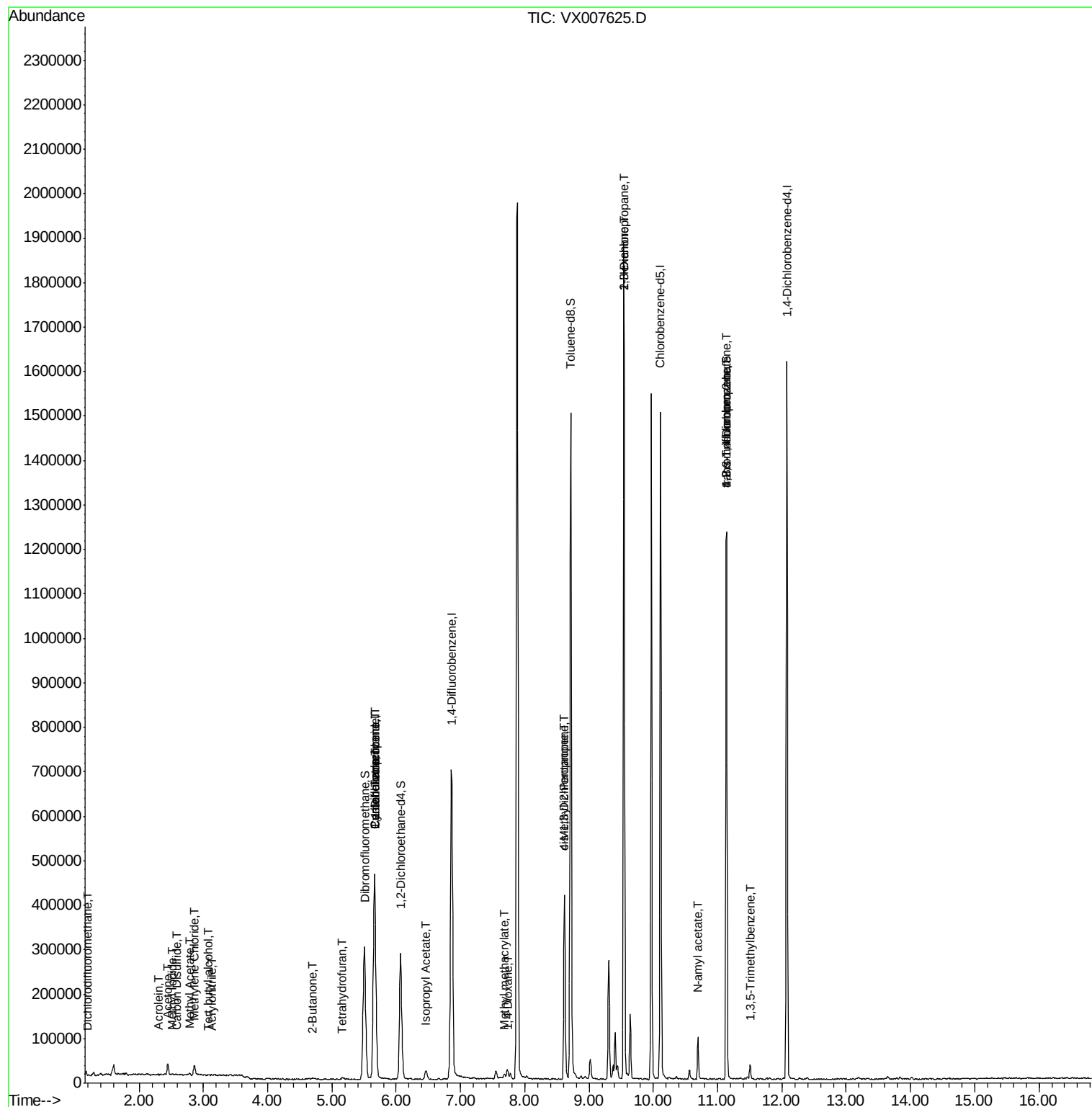
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	346	0.236	ug/l #	55
5) Bromomethane	1.65	94	619	Below Cal	#	35
10) Methyl Iodide	2.52	142	1462	0.203	ug/l #	88
11) Tert butyl alcohol	3.08	59	495	0.472	ug/l #	1
13) Acrolein	2.29	56	520	1.058	ug/l #	1
15) Acrylonitrile	3.14	53	779	0.301	ug/l #	77
16) Acetone	2.45	43	29426	12.687	ug/l	94
17) Carbon Disulfide	2.57	76	2346	2.310	ug/l #	82
18) Methyl Acetate	2.78	43	3227	1.121	ug/l #	60
20) Methylene Chloride	2.86	84	11086	1.962	ug/l	97
25) 2-Butanone	4.71	43	6319	1.914	ug/l #	79
29) Tetrahydrofuran	5.15	42	979	0.472	ug/l #	1
31) Cyclohexane	5.66	56	8087	1.149	ug/l #	23
36) 1,1-Dichloropropene	5.67	75	28608	4.213	ug/l #	50
38) Carbon Tetrachloride	5.66	117	41820	6.349	ug/l #	17
43) Isopropyl Acetate	6.46	43	25717	2.427	ug/l #	92
48) Methyl methacrylate	7.68	41	12029	2.270	ug/l #	13
49) 1,4-Dioxane	7.75	88	88	7.604	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	130682	18.738	ug/l #	47
54) cis-1,3-Dichloropropene	8.62	75	69450	9.525	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	15843	1.852	ug/l #	46
59) 2-Hexanone	9.54	43	204728	37.724	ug/l #	53
74) N-amyl acetate	10.69	43	19581	2.162	ug/l #	57
76) 1,2,3-Trichloropropane	11.13	75	152457	22.749	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	13090	0.683	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.13	75	152457	68.598	ug/l #	9

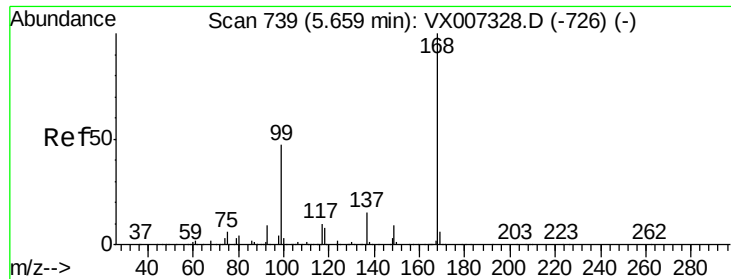
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 22 04:30:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

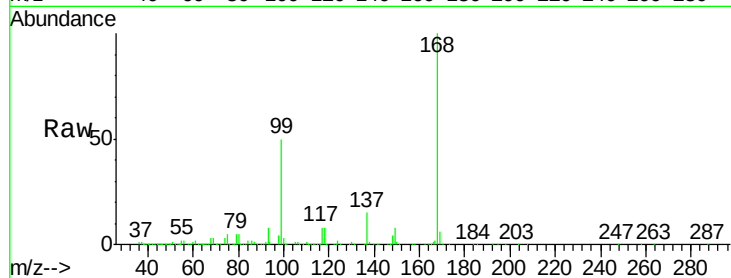
PB117250TB

Tot Ion:168 Resp: 477025

Ion Ratio Lower Upper

168 100

99 49.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

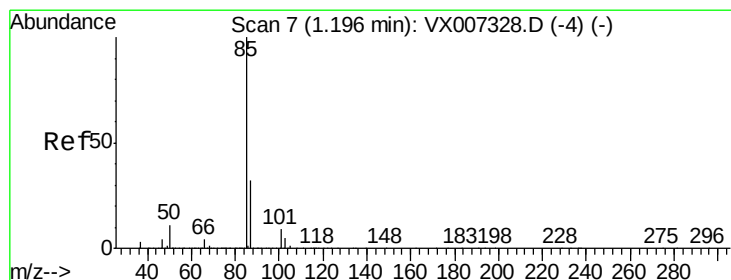
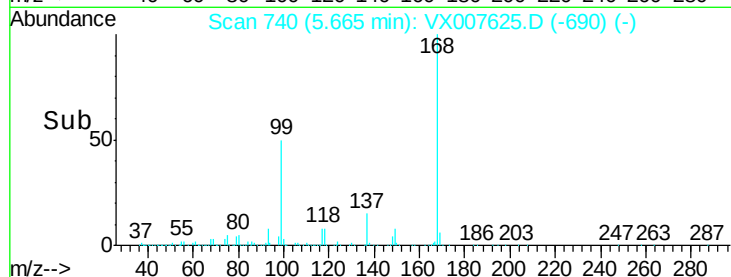
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.236 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007625.D

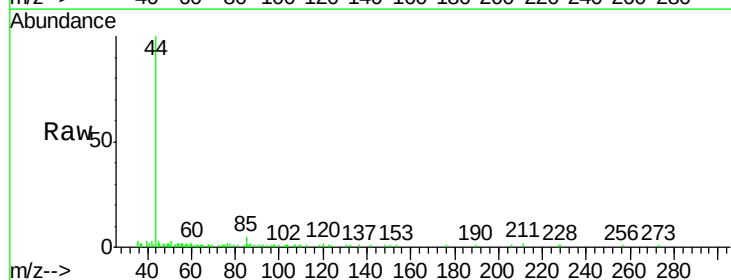
Acq: 21 Feb 2019 12:42

Tgt Ion: 85 Resp: 346

Ion Ratio Lower Upper

85 100

87 56.6 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

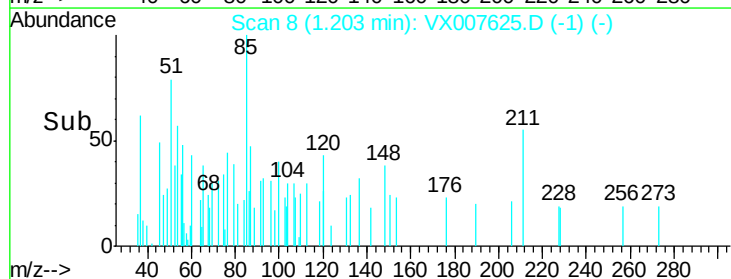
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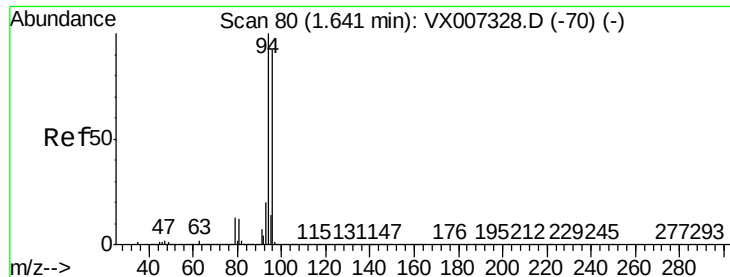
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

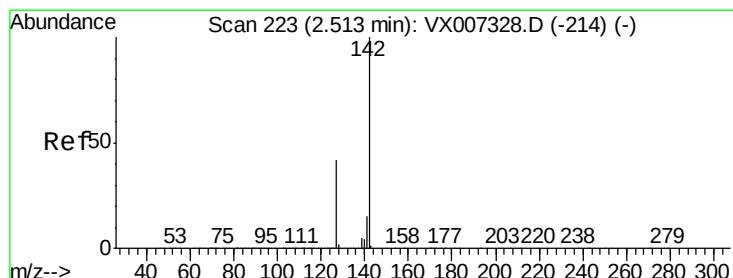
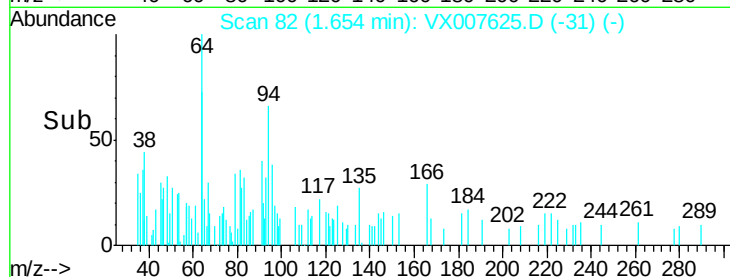
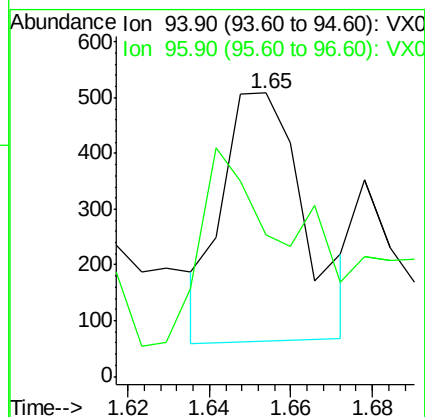
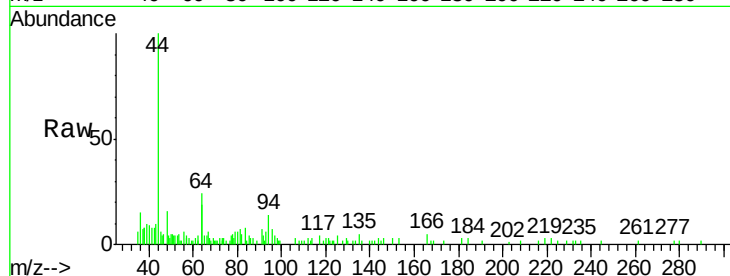
PB117250TB

Tot Ion: 94 Resp: 619

Ion Ratio Lower Upper

94 100

96 30.3 73.9 110.9#



#10

Methyl Iodide

Concen: 0.203 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

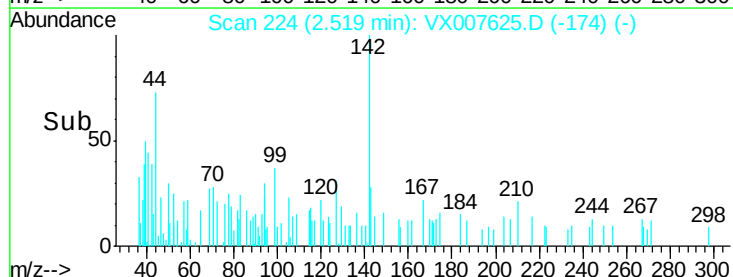
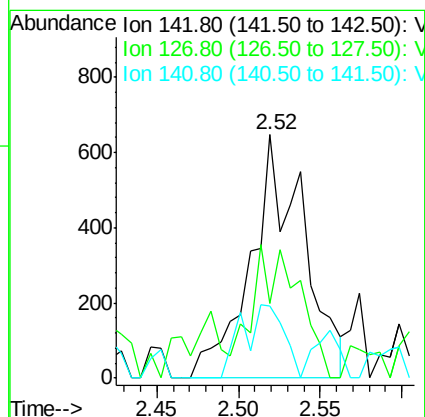
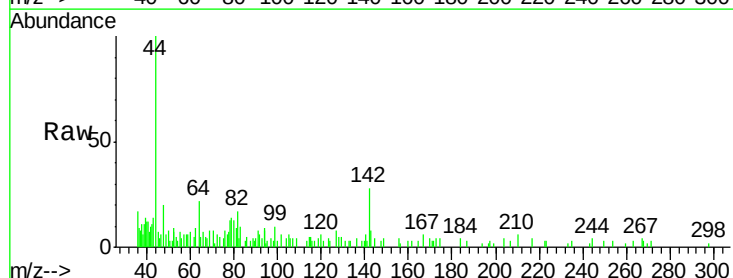
Tgt Ion: 142 Resp: 1462

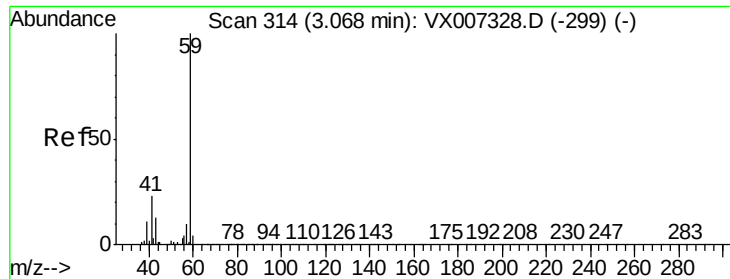
Ion Ratio Lower Upper

142 100

127 47.4 33.7 50.5

141 23.8 11.3 16.9#



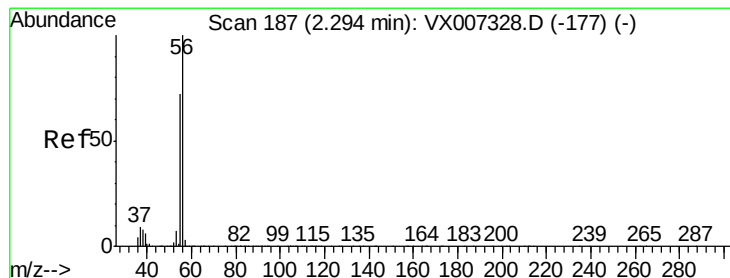
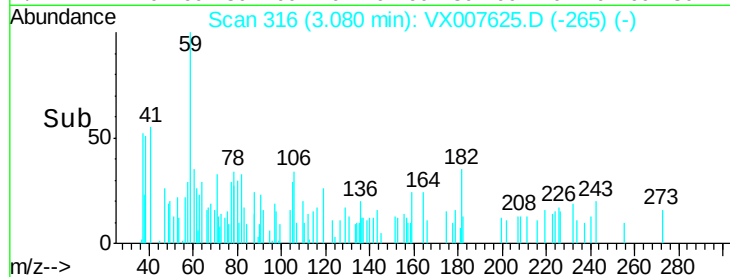
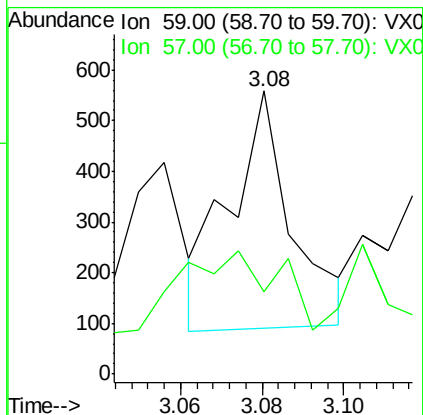
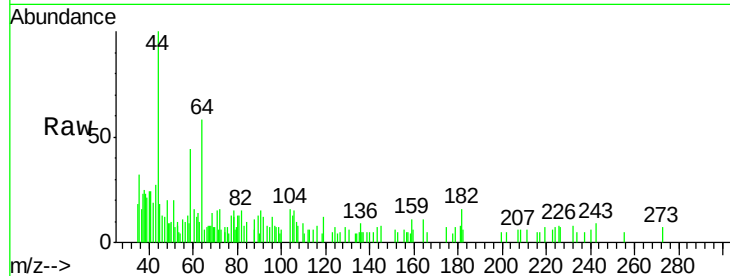


#11

Tert butyl alcohol
Concen: 0.472 ug/l
RT: 3.08 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Instrument :
MSVOA_X
ClientSampled :
PB117250TB

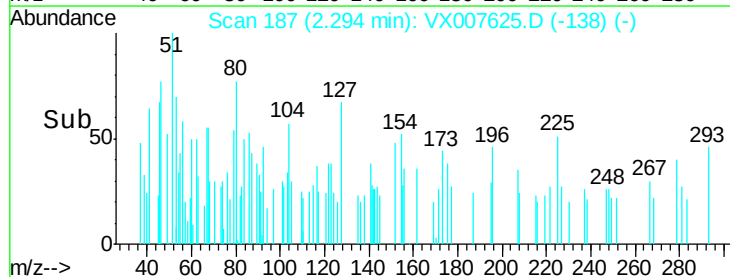
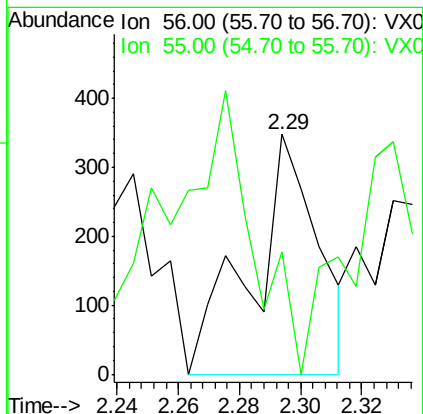
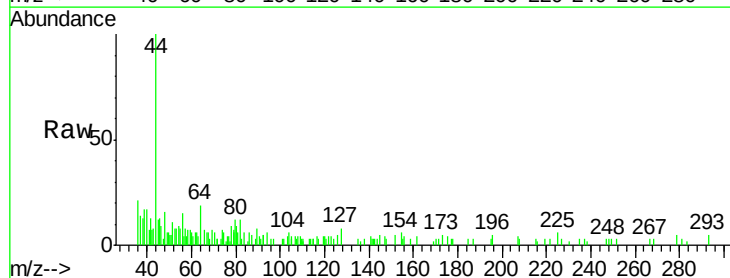
Tot Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 53.1 8.1 12.1#

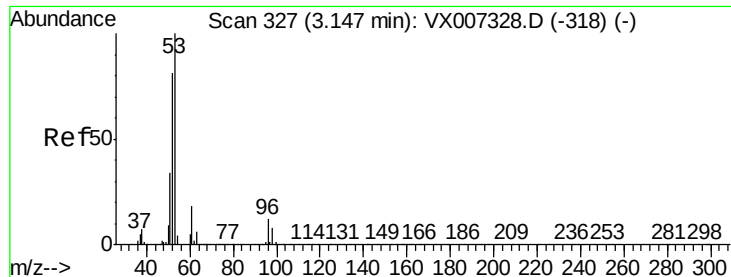


#13

Acrolein
Concen: 1.058 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Tgt Ion: 56 Resp: 520
Ion Ratio Lower Upper
56 100
55 155.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.301 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampled :

PB117250TB

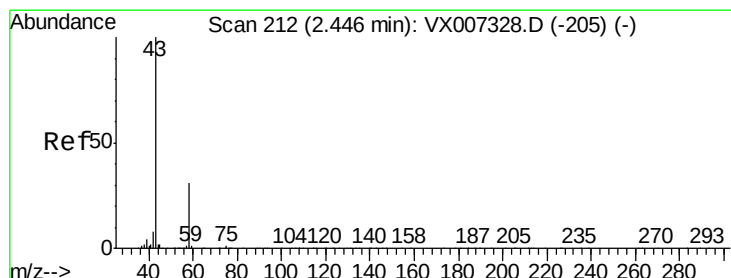
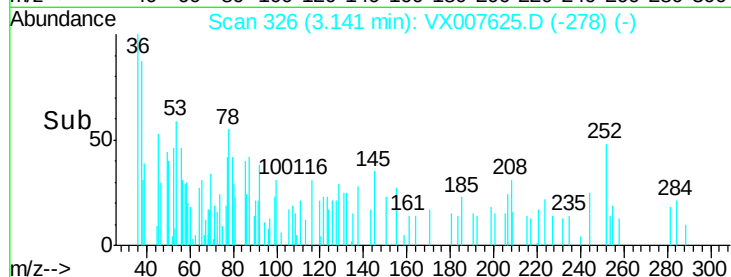
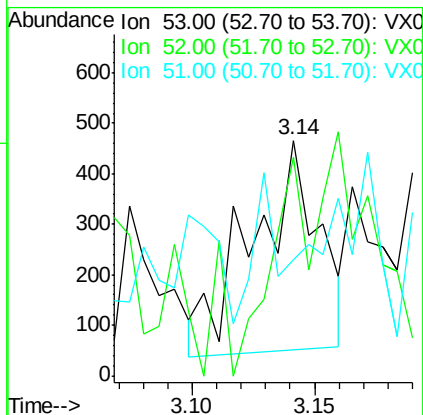
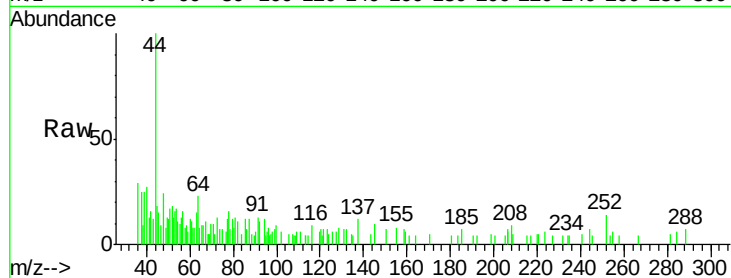
Tot Ion: 53 Resp: 779

Ion Ratio Lower Upper

53 100

52 56.0 66.4 99.6#

51 31.1 28.4 42.6



#16

Acetone

Concen: 12.687 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007625.D

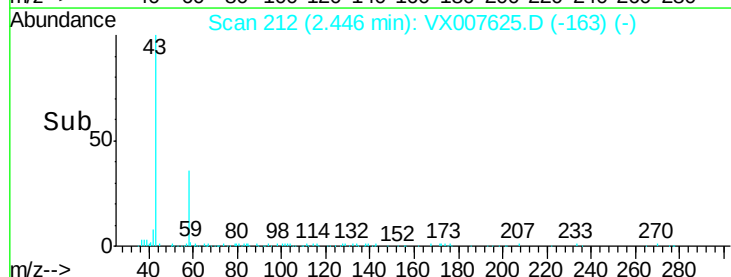
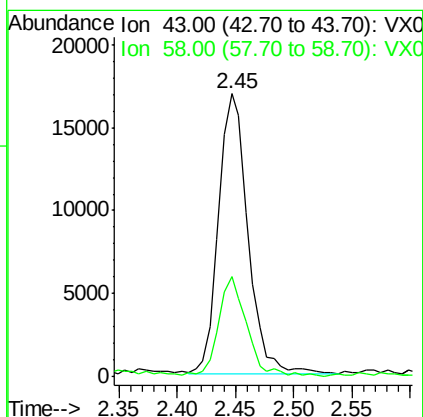
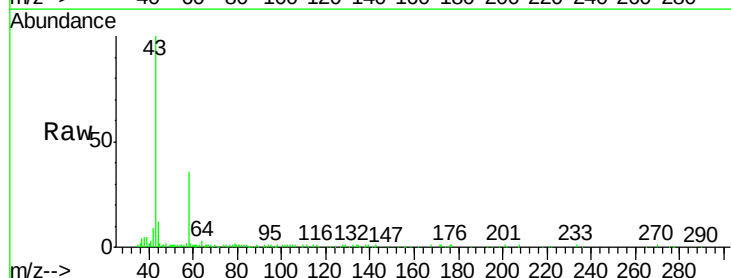
Acq: 21 Feb 2019 12:42

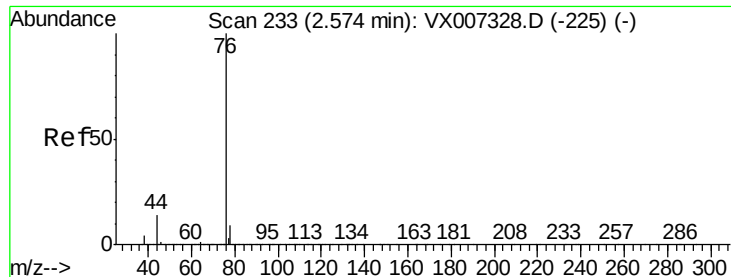
Tgt Ion: 43 Resp: 29426

Ion Ratio Lower Upper

43 100

58 34.4 24.9 37.3





#17

Carbon Disulfide

Concen: 2.310 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

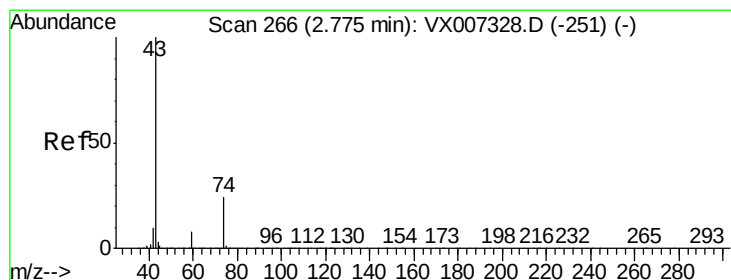
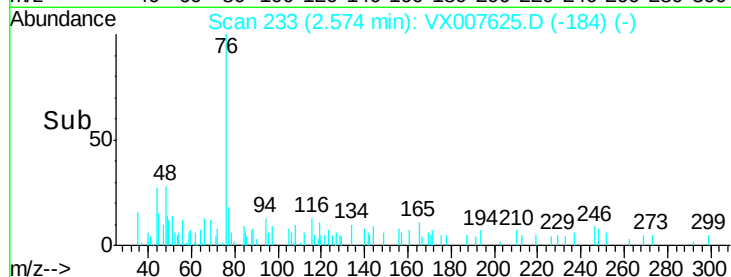
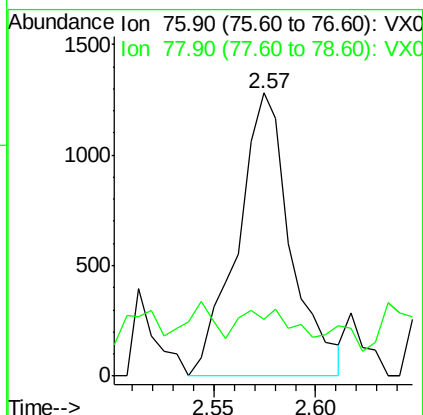
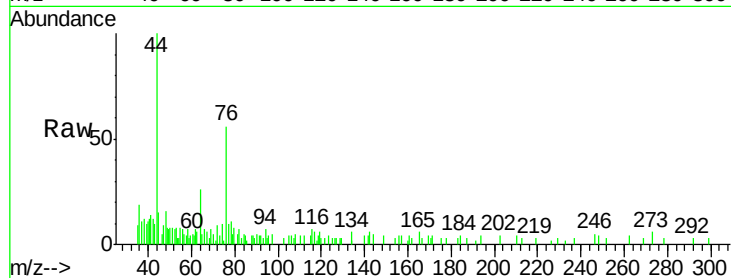
PB117250TB

Tot Ion: 76 Resp: 2346

Ion Ratio Lower Upper

76 100

78 2.4 7.1 10.7#



#18

Methyl Acetate

Concen: 1.121 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007625.D

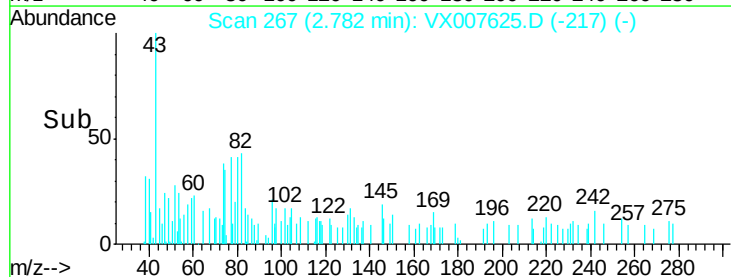
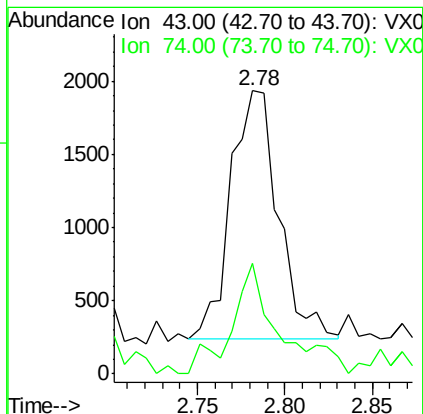
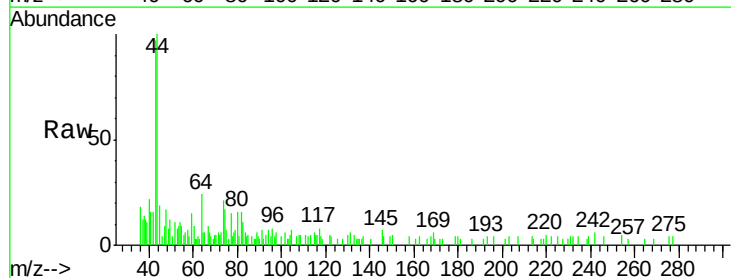
Acq: 21 Feb 2019 12:42

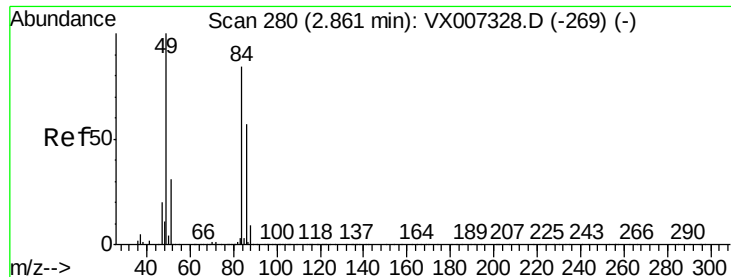
Tgt Ion: 43 Resp: 3227

Ion Ratio Lower Upper

43 100

74 44.0 19.4 29.2#

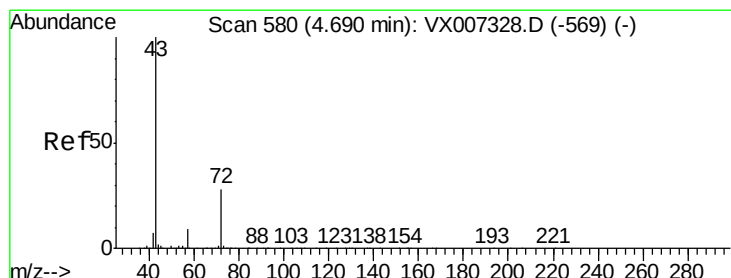
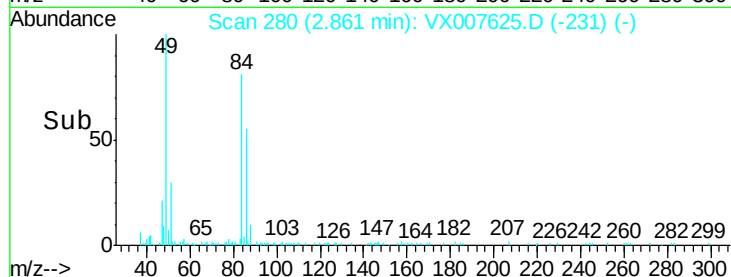
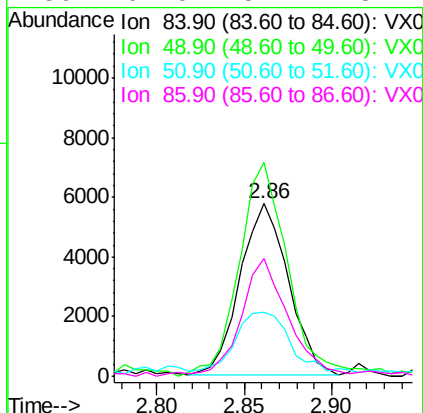
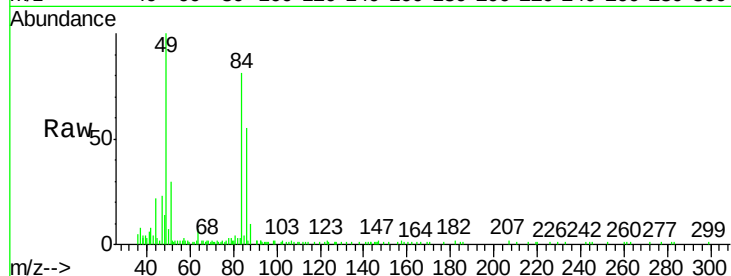




#20
Methvlene Chloride
Concen: 1.962 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

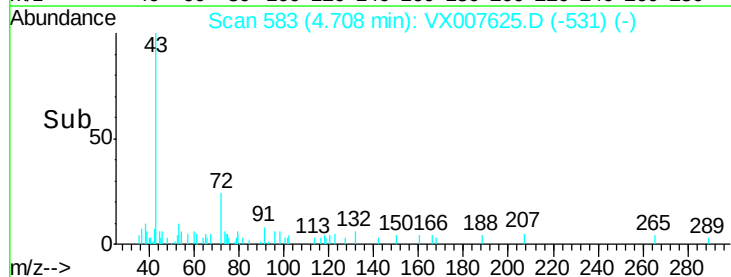
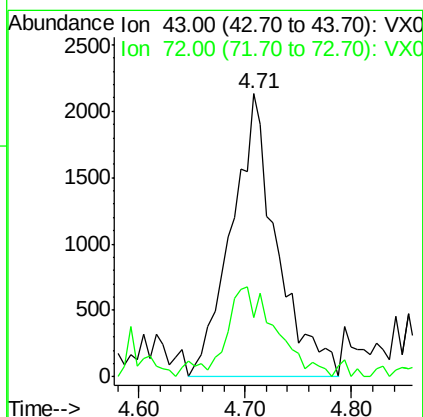
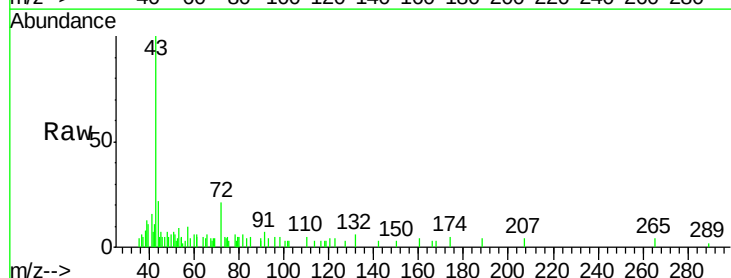
Instrument :
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ClientSampled :
PB117250TB

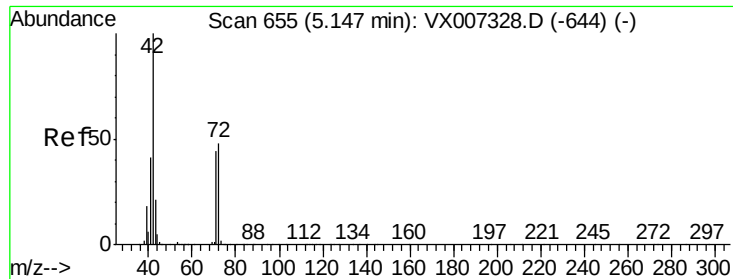
Tot Ion:	84	Resp:	11086
Ion	Ratio	Lower	Upper
84	100		
49	122.6	94.8	142.2
51	34.4	29.8	44.8
86	67.0	54.1	81.1



#25
2-Butanone
Concen: 1.914 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Tgt Ion:	43	Resp:	6319
Ion	Ratio	Lower	Upper
43	100		
72	16.9	22.2	33.2#

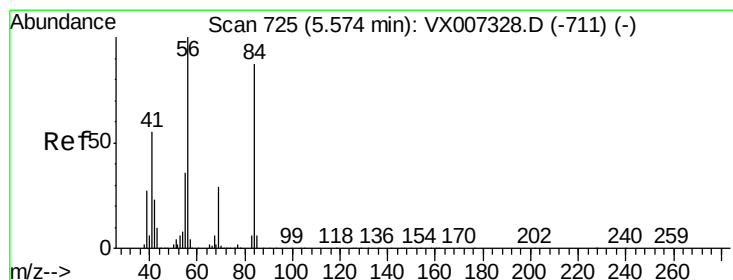
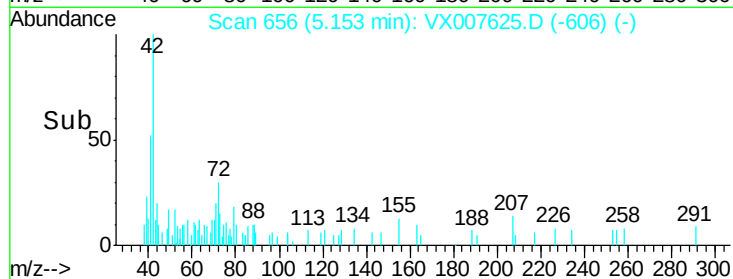
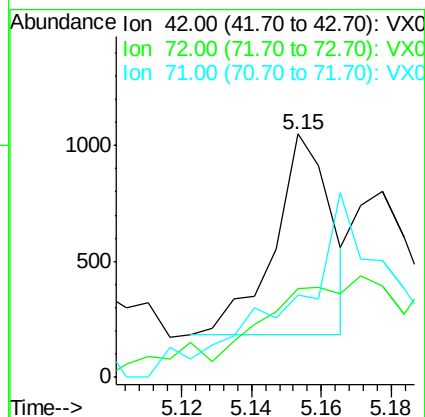
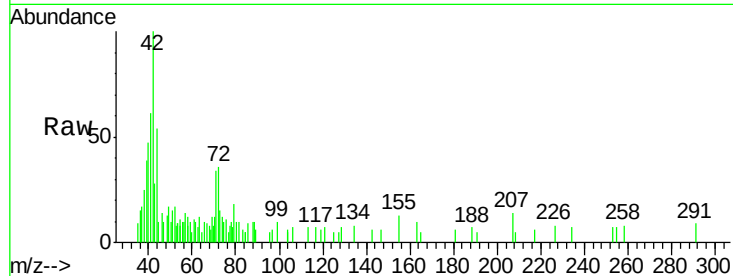




#29
Tetrahydrofuran
Concen: 0.472 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.01 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

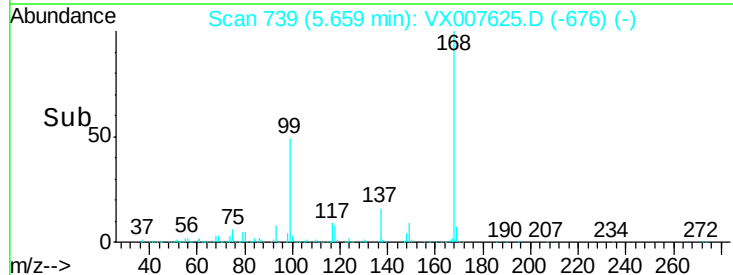
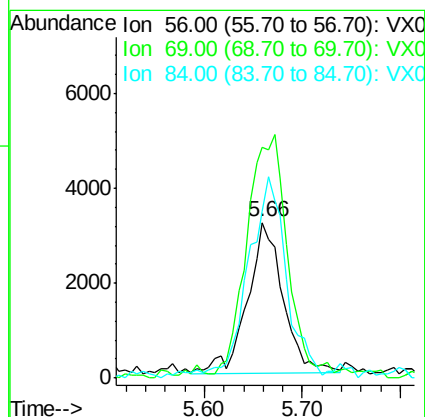
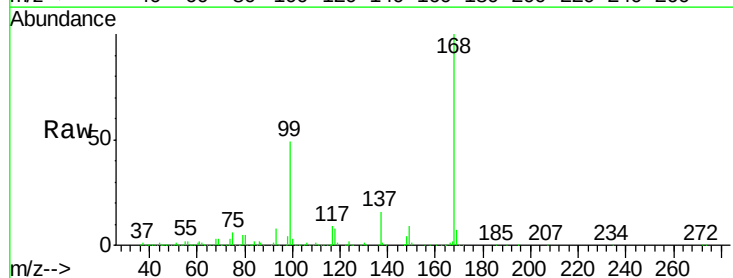
Instrument :
MSVOA_X
ClientSampled :
PB117250TB

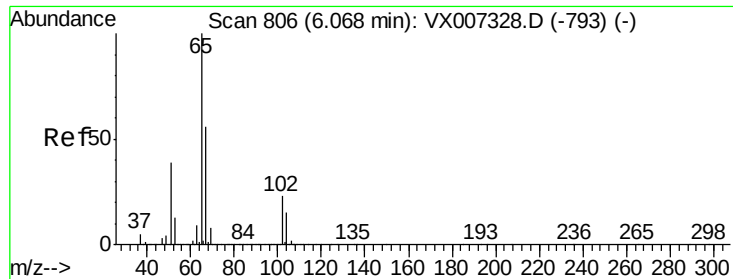
Tot Ion: 42 Resp: 979
Ion Ratio Lower Upper
42 100
72 179.6 37.6 56.4#
71 188.6 34.6 51.8#



#31
Cyclohexane
Concen: 1.149 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Tgt Ion: 56 Resp: 8087
Ion Ratio Lower Upper
56 100
69 154.6 23.0 34.6#
84 109.5 69.8 104.6#

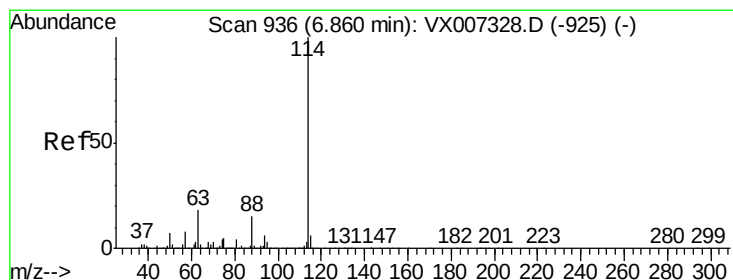
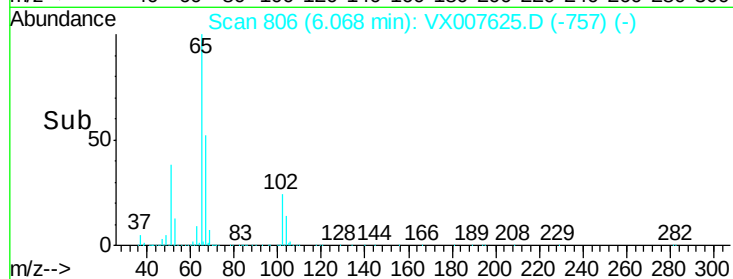
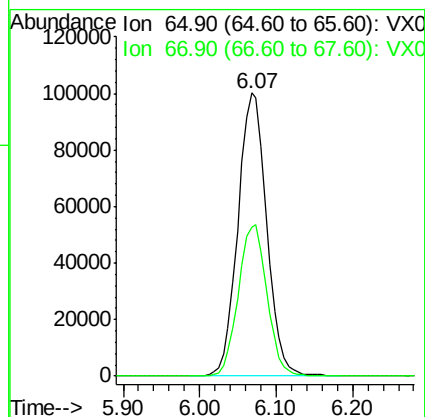
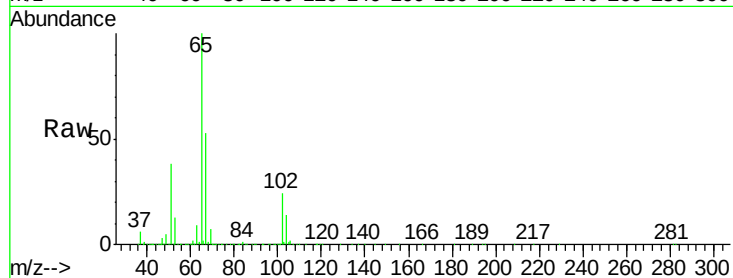




#33
 1,2-Dichloroethane-d4
 Concen: 51.420 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007625.D
 Acq: 21 Feb 2019 12:42

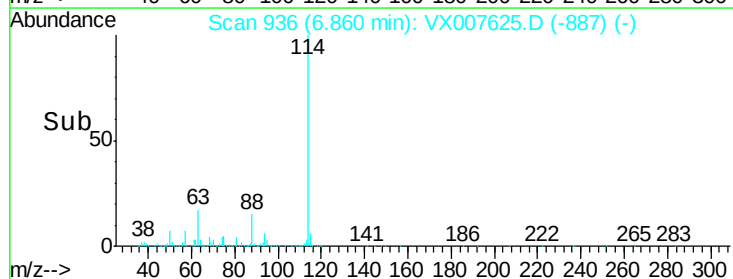
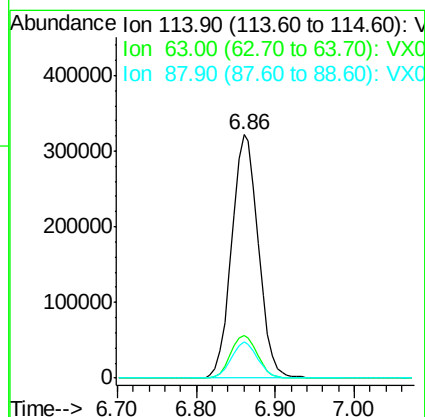
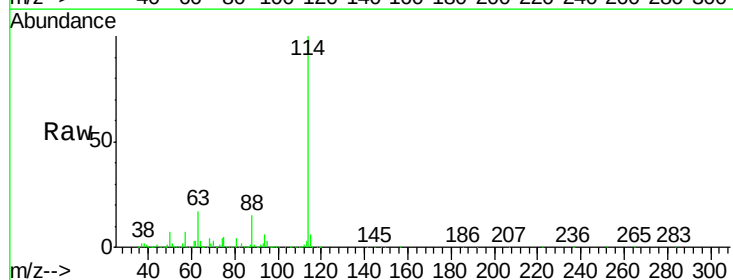
Instrument :
 MSVOA_X
 ClientSampled :
 PB117250TB

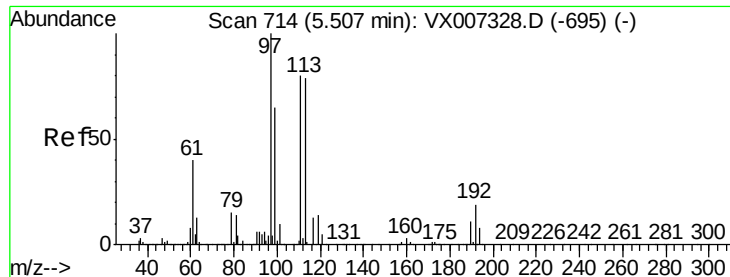
Tot Ion: 65 Resp: 260352
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007625.D
 Acq: 21 Feb 2019 12:42

Tgt Ion: 114 Resp: 756738
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 35.6
 88 14.7 0.0 29.6





#35

Dibromofluoromethane

Concen: 50.608 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250TB

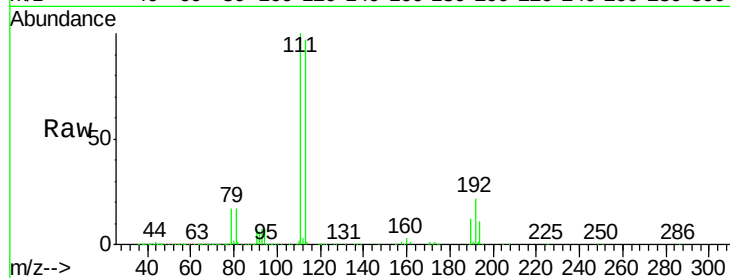
Tot Ion:113 Resp: 249186

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

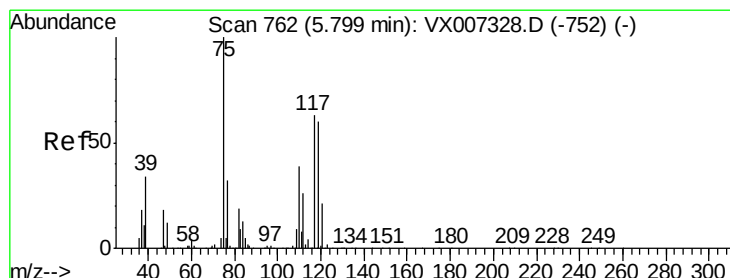
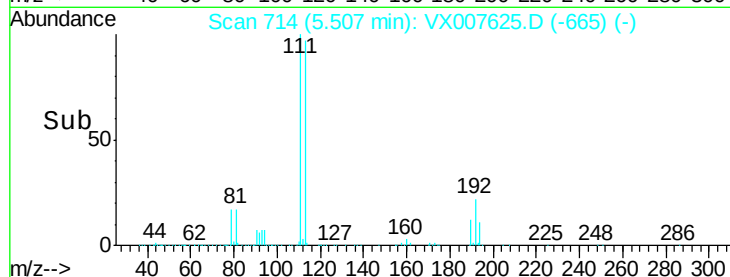
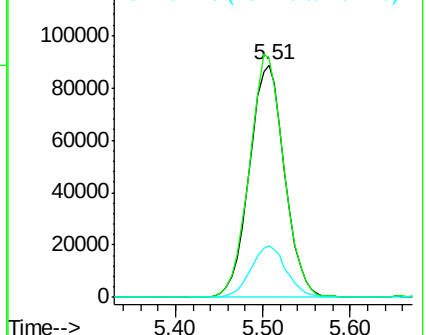
192 22.2 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.213 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

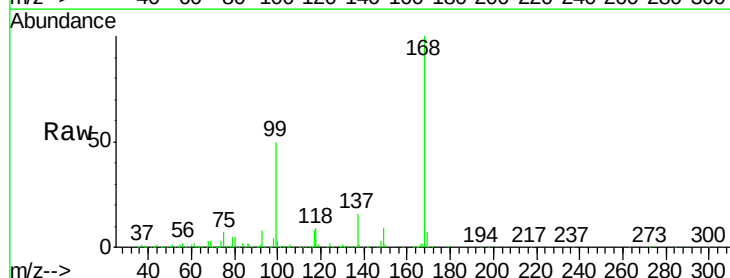
Tgt Ion: 75 Resp: 28608

Ion Ratio Lower Upper

75 100

110 11.3 20.0 59.9#

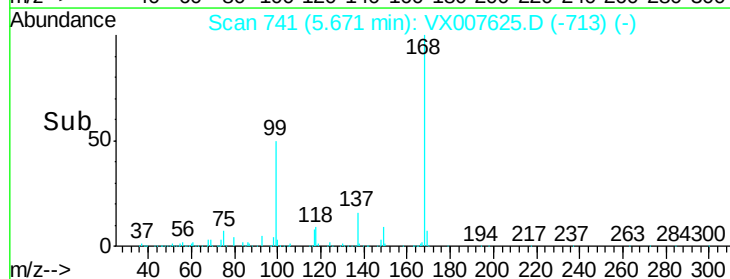
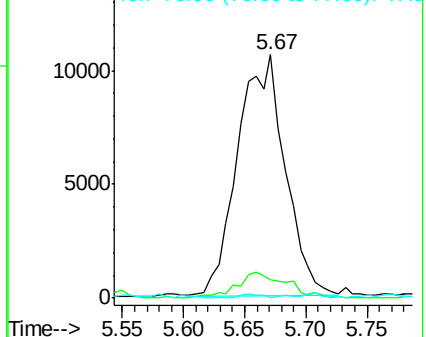
77 0.7 24.7 37.1#

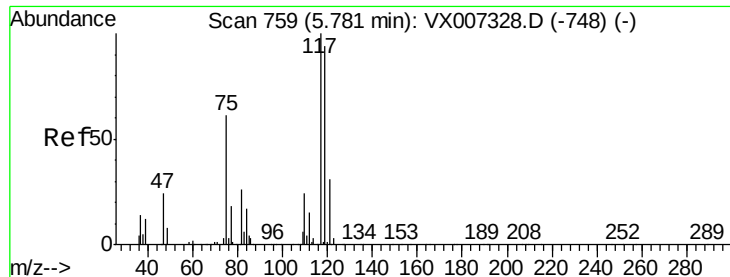


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.349 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250TB

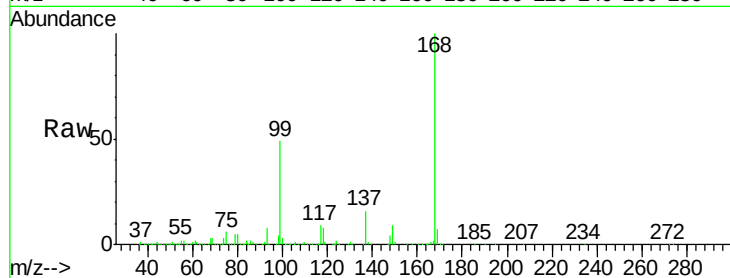
Tot Ion:117 Resp: 41820

Ion Ratio Lower Upper

117 100

119 5.9 75.3 112.9#

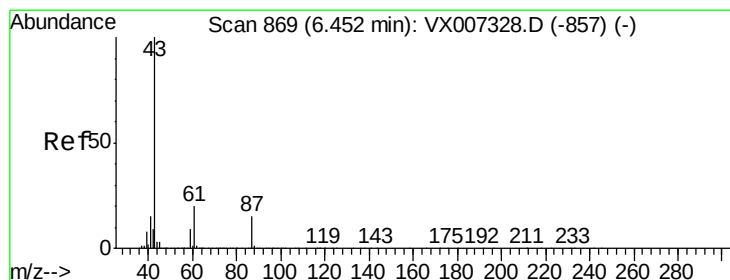
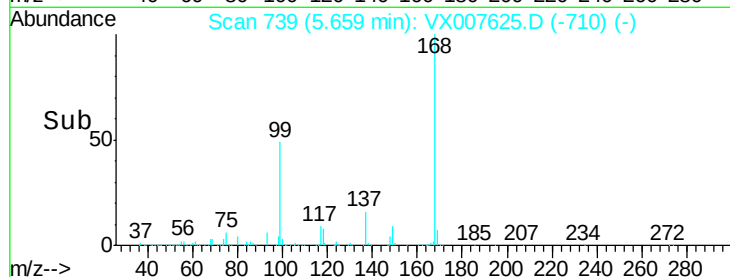
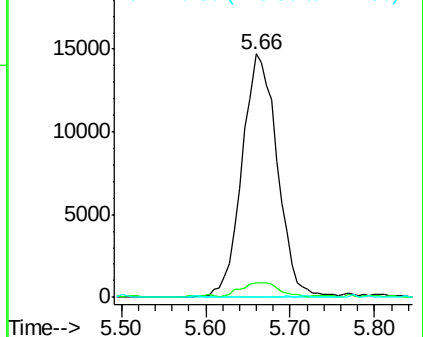
121 0.0 25.0 37.4#



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: 2.427 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

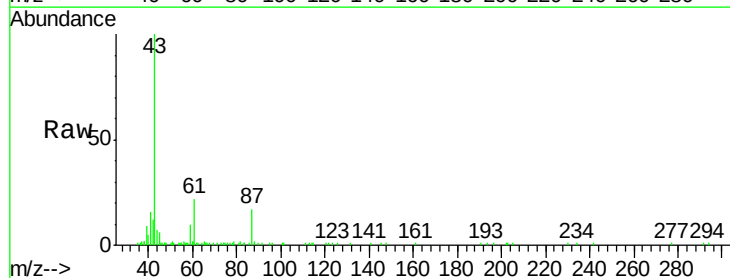
Tgt Ion: 43 Resp: 25717

Ion Ratio Lower Upper

43 100

61 23.4 16.1 24.1

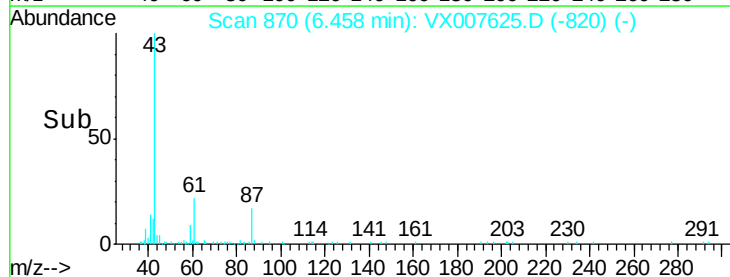
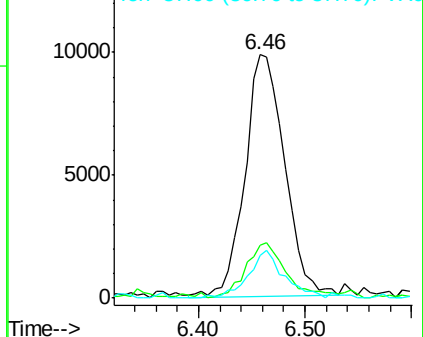
87 17.9 11.5 17.3#

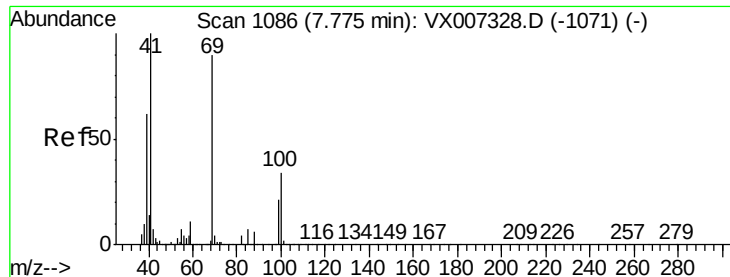


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.270 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250TB

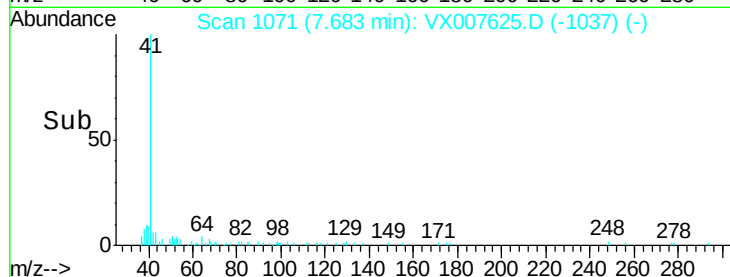
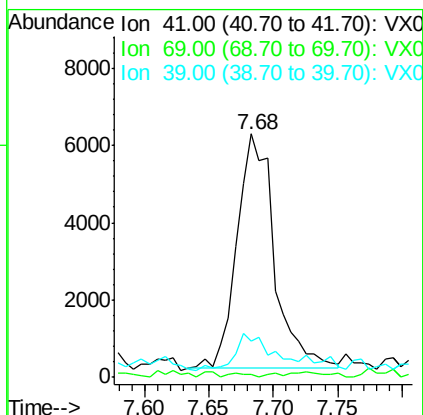
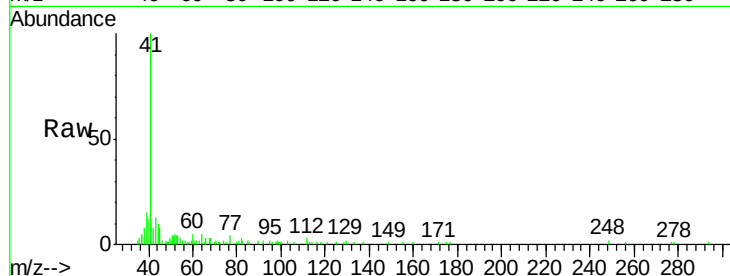
Tot Ion: 41 Resp: 12029

Ion Ratio Lower Upper

41 100

69 1.1 70.2 105.4#

39 0.0 47.4 71.0#



#49

1,4-Dioxane

Concen: 7.604 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

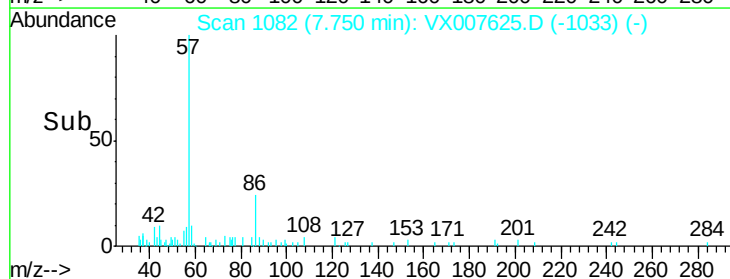
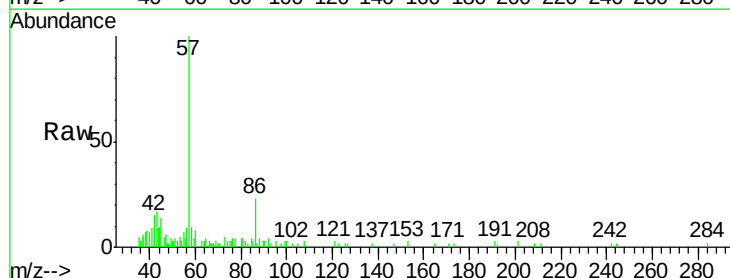
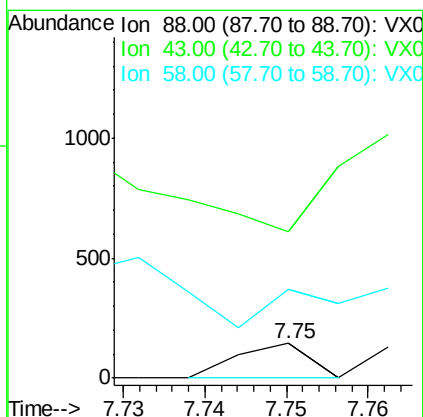
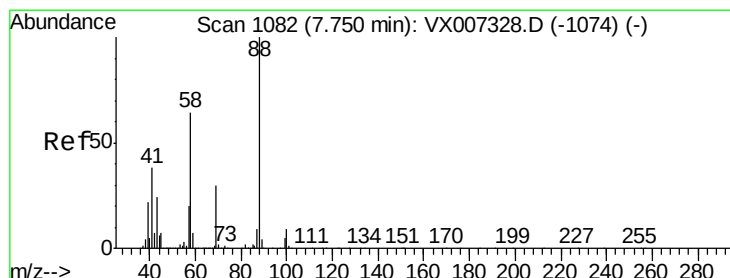
Tgt Ion: 88 Resp: 88

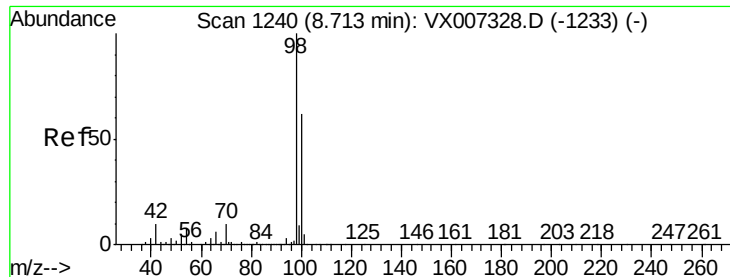
Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

58 0.0 53.0 79.4#





#50

Toluene-d8

Concen: 50.663 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

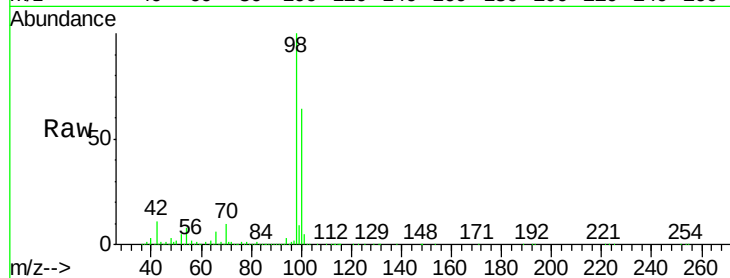
PB117250TB

Tot Ion: 98 Resp: 925520

Ion Ratio Lower Upper

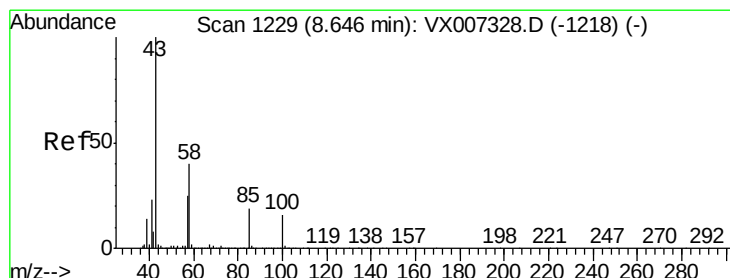
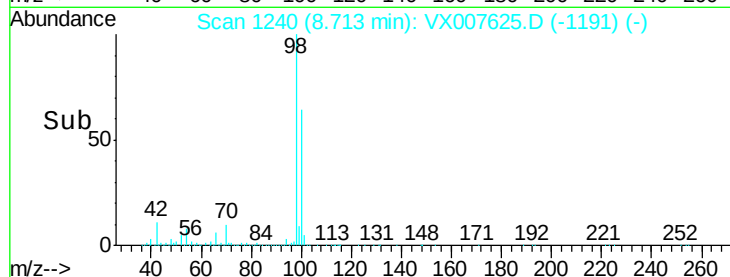
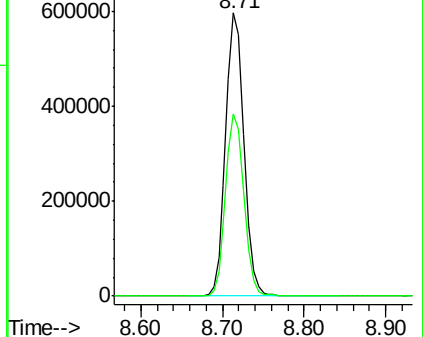
98 100

100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 18.738 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007625.D

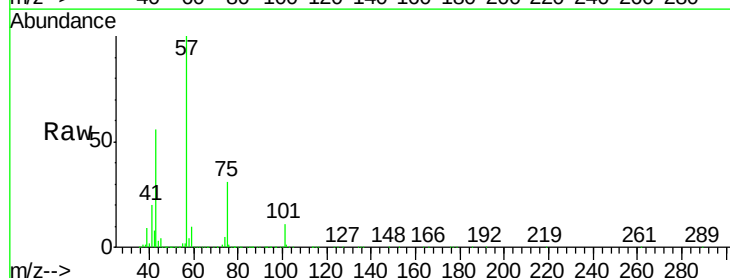
Acq: 21 Feb 2019 12:42

Tgt Ion: 43 Resp: 130682

Ion Ratio Lower Upper

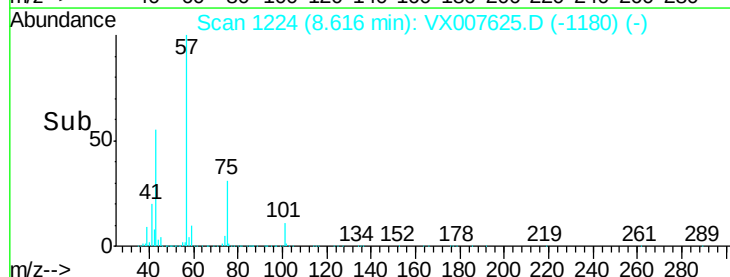
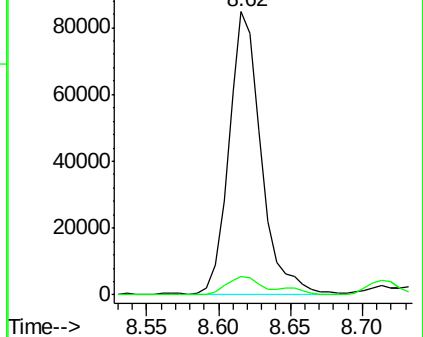
43 100

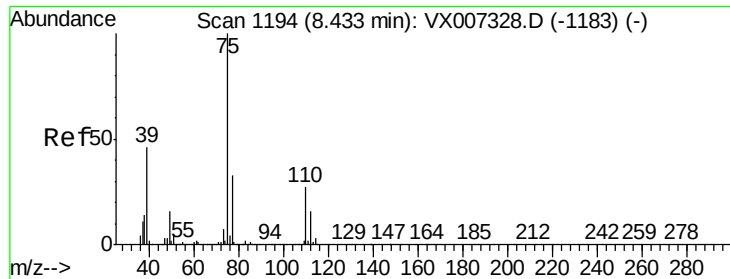
58 6.9 31.2 46.8#



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: 9.525 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250TB

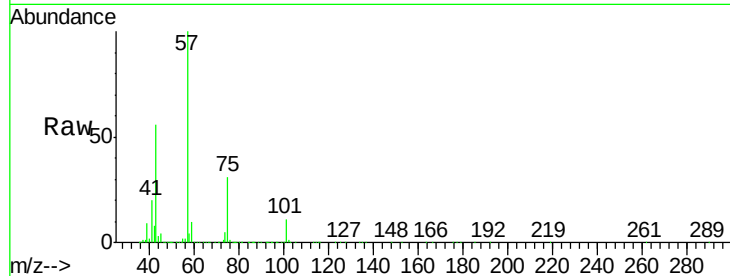
Tot Ion: 75 Resp: 69450

Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.4#

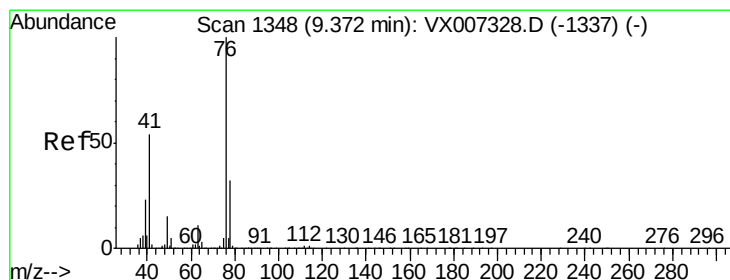
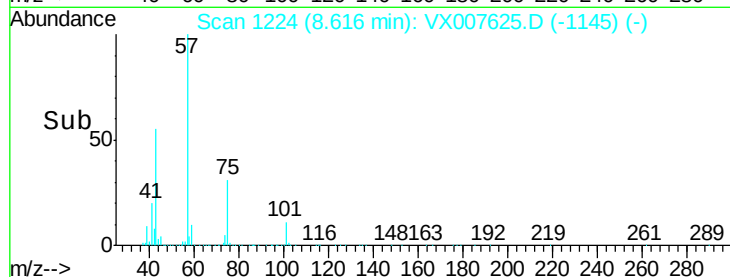
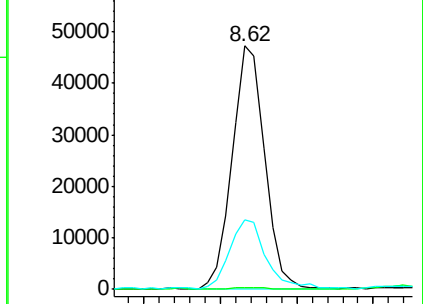
39 27.9 37.1 55.7#



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-Dichloropropene

Concen: 1.852 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007625.D

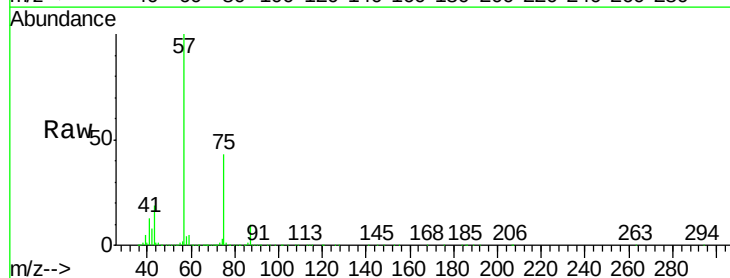
Acq: 21 Feb 2019 12:42

Tgt Ion: 76 Resp: 15843

Ion Ratio Lower Upper

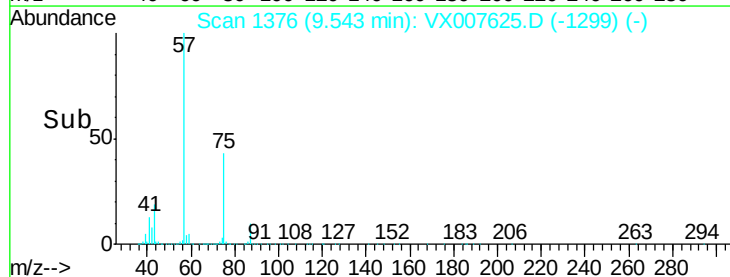
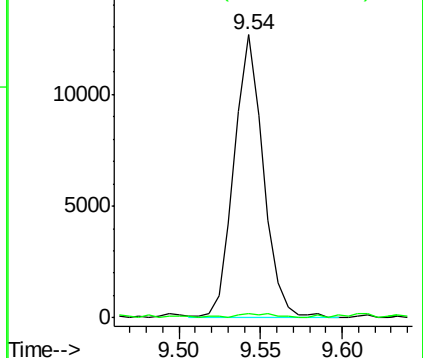
76 100

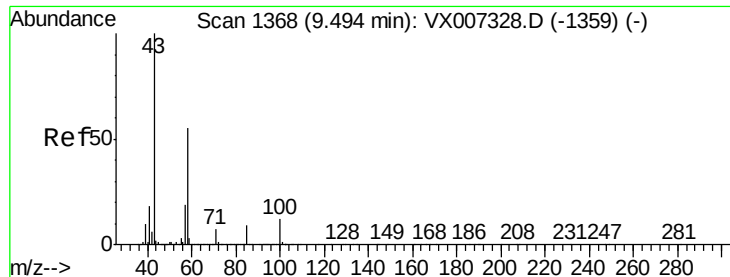
78 2.1 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

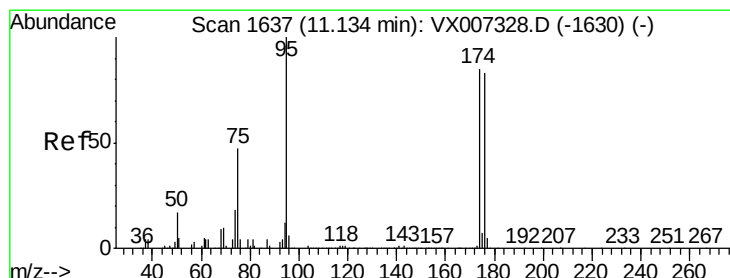
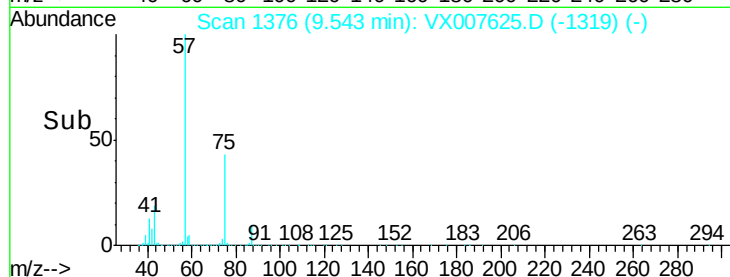
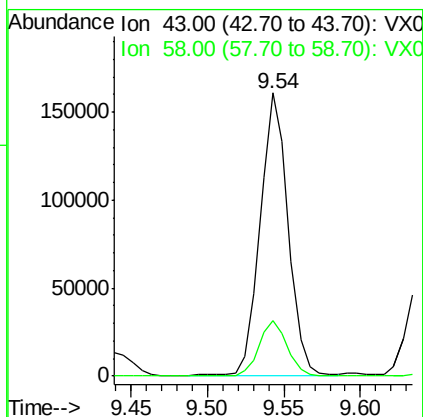
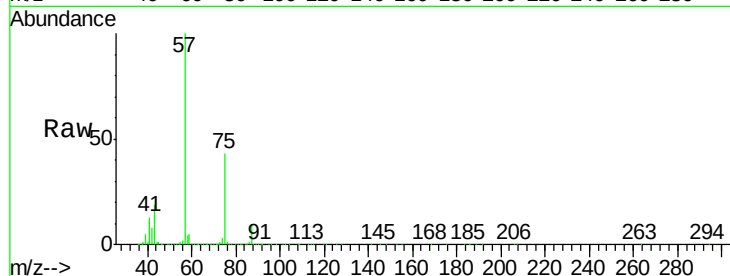




#59
2-Hexanone
Concen: 37.724 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

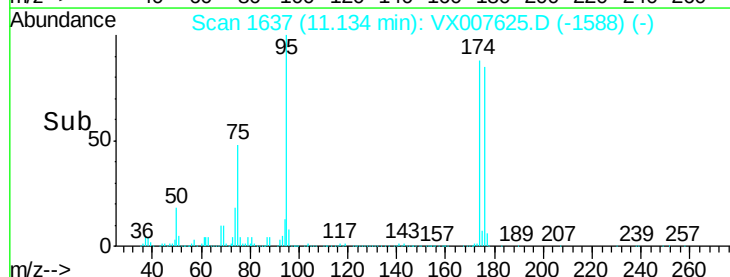
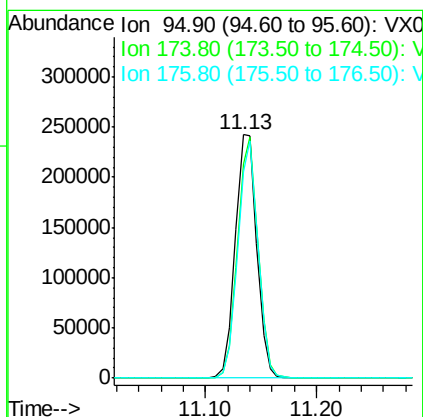
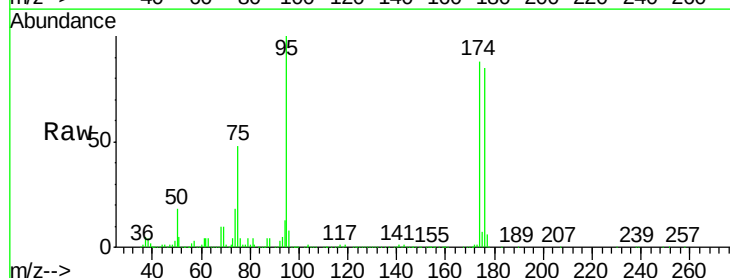
Instrument :
MSVOA_X
ClientSampleId :
PB117250TB

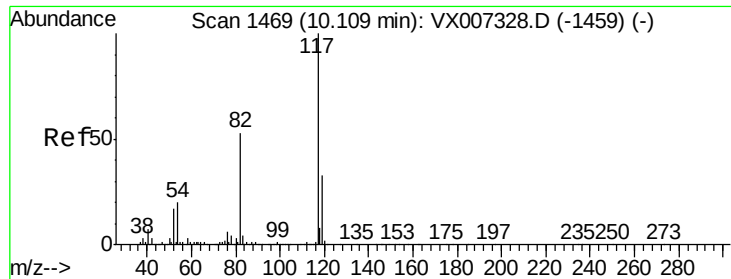
Tot Ion: 43 Resp: 204728
Ion Ratio Lower Upper
43 100
58 20.2 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 48.602 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Tgt Ion: 95 Resp: 324165
Ion Ratio Lower Upper
95 100
174 94.4 0.0 189.2
176 91.1 0.0 186.2

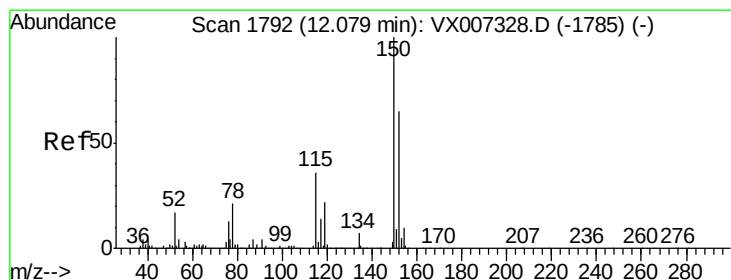
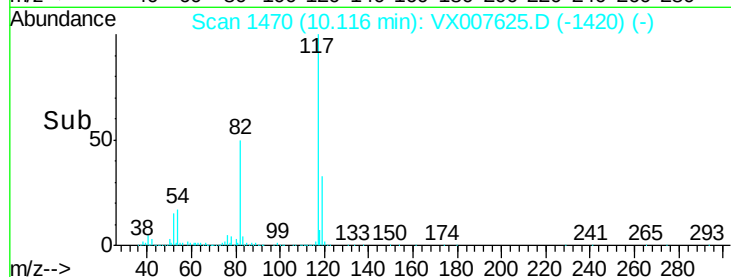
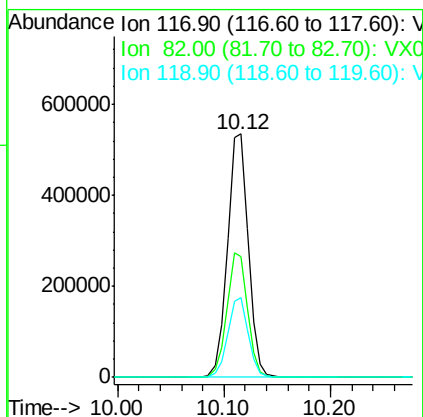
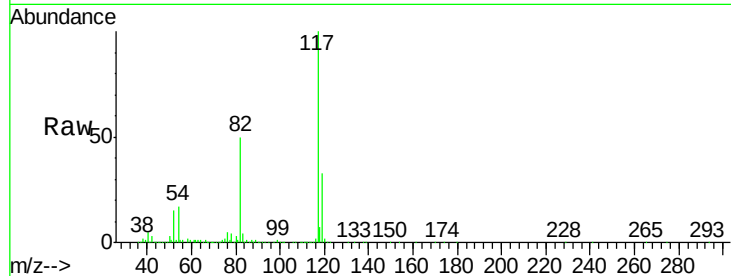




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

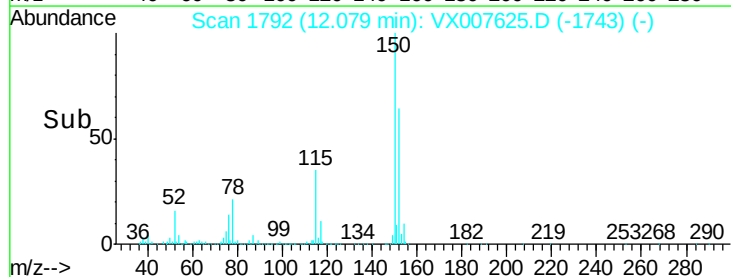
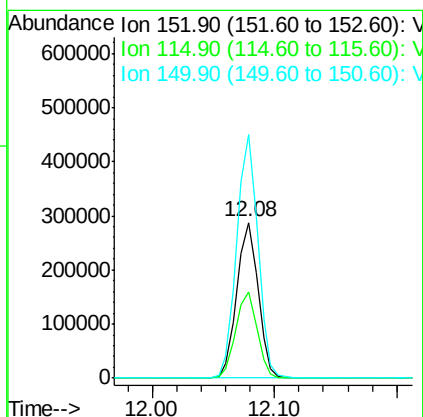
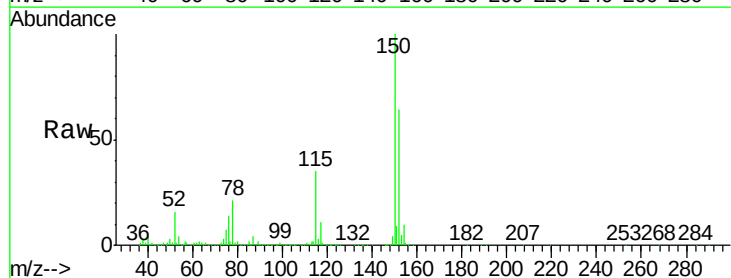
Instrument :
MSVOA_X
ClientSampleId :
PB117250TB

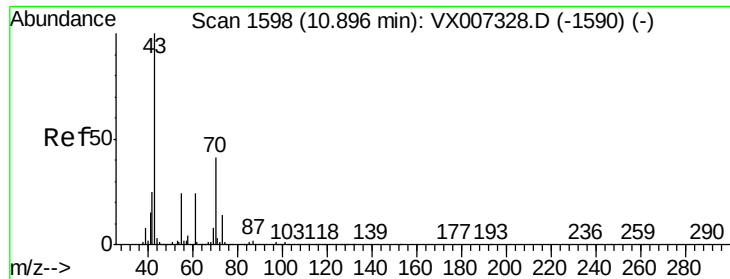
Tot Ion:117 Resp: 735573
Ion Ratio Lower Upper
117 100
82 49.8 42.1 63.1
119 32.8 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007625.D
Acq: 21 Feb 2019 12:42

Tgt Ion:152 Resp: 344532
Ion Ratio Lower Upper
152 100
115 55.6 38.0 114.0
150 155.6 0.0 346.4





#74

N-amvl acetate

Concen: 2.162 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007625.D

Acq: 21 Feb 2019 12:42

Instrument :

MSVOA_X

ClientSampleId :

PB117250TB

Tot Ion: 43 Resp: 19581

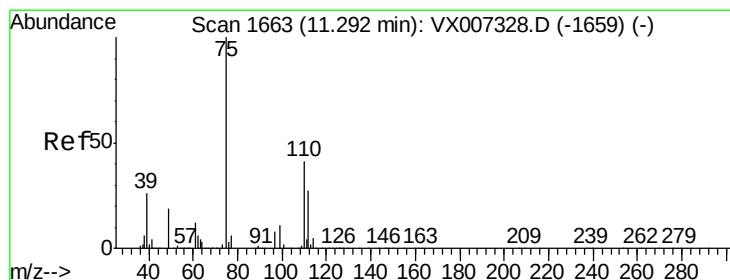
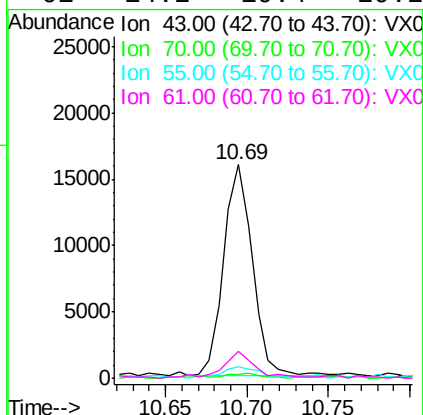
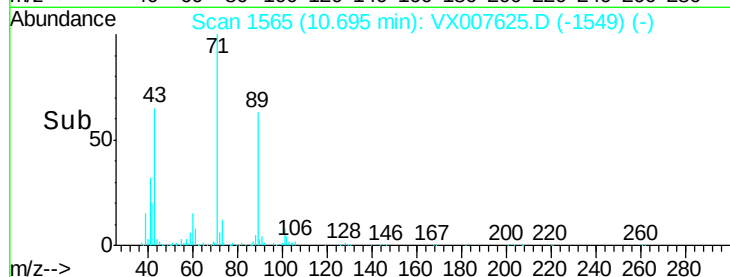
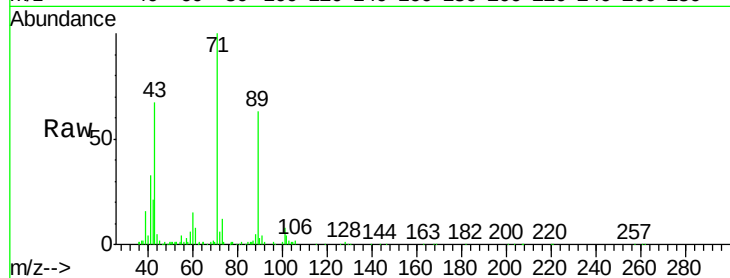
Ion Ratio Lower Upper

43 100

70 2.7 33.8 50.6#

55 7.8 19.5 29.3#

61 14.2 19.4 29.2#



#76

1,2,3-Trichloropropane

Concen: 22.749 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007625.D

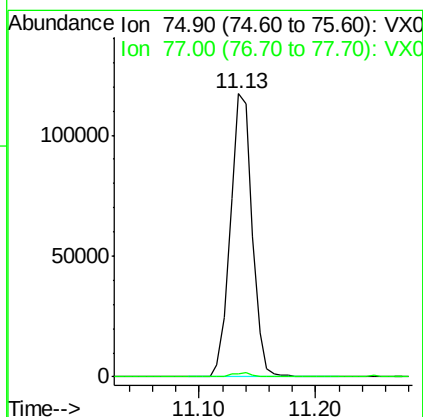
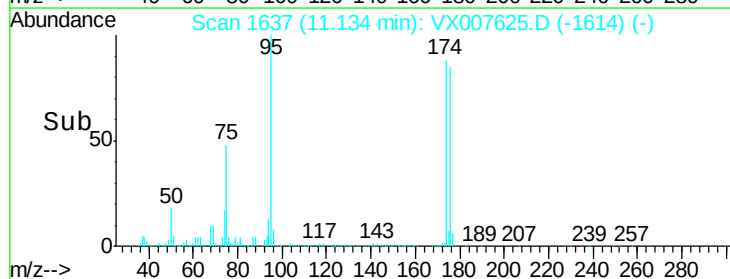
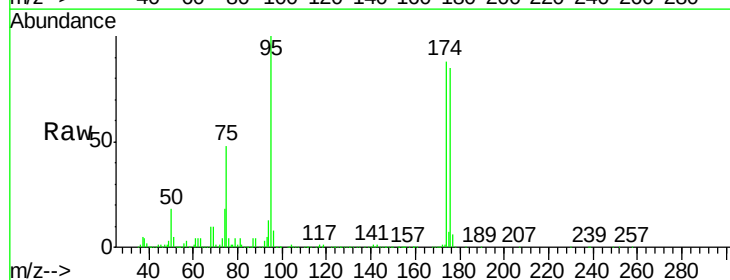
Acq: 21 Feb 2019 12:42

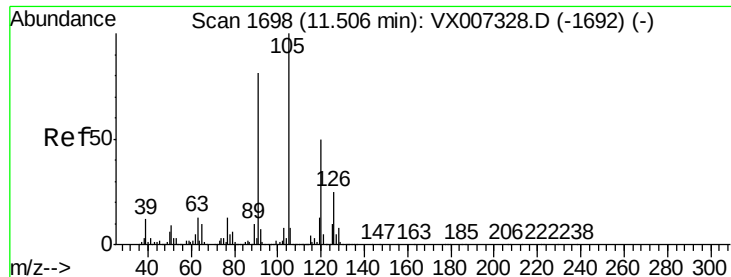
Tgt Ion: 75 Resp: 152457

Ion Ratio Lower Upper

75 100

77 1.7 23.0 69.0#

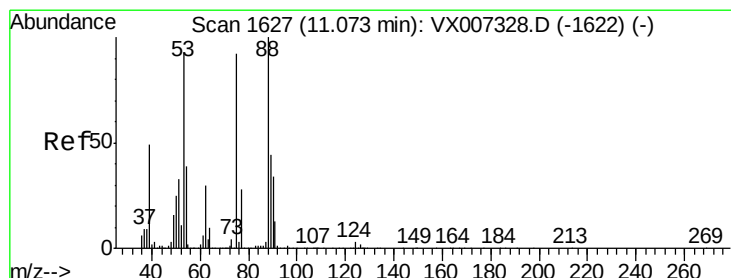
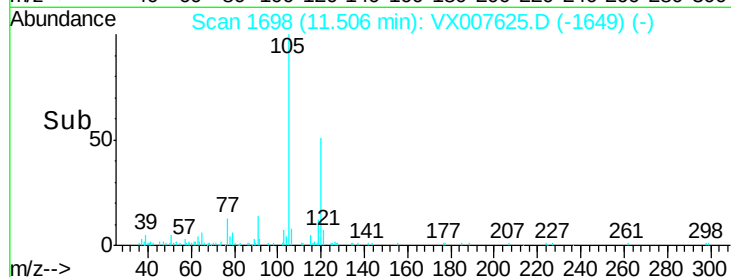
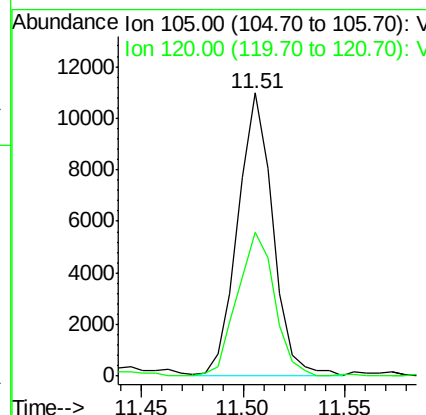
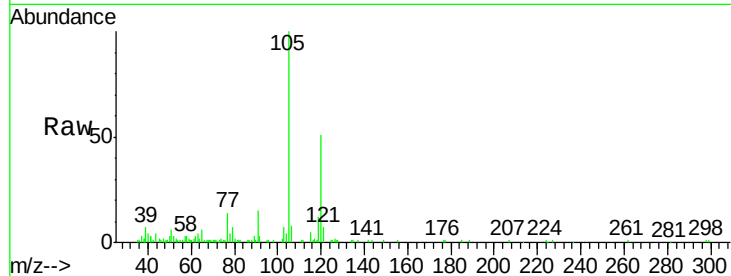




#80
 1,3,5-Trimethylbenzene
 Concen: 0.683 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX007625.D
 Acq: 21 Feb 2019 12:42

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250TB

Tot Ion:105 Resp: 13090
 Ion Ratio Lower Upper
 105 100
 120 54.2 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.598 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007625.D
 Acq: 21 Feb 2019 12:42

Tgt Ion: 75 Resp: 152457
 Ion Ratio Lower Upper
 75 100
 53 0.3 81.0 121.6#
 89 0.0 41.4 62.0#

