

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022119\
 Data File : VX007642.D
 Acq On : 21 Feb 2019 20:16
 Operator : JC/SP
 Sample : PB117250ZHE#16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#16

Quant Time: Feb 22 04:35:54 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	418637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	702014	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	684944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	320197	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	246720	55.52	ug/l	0.00
Spiked Amount			Recovery	=	111.04%	
35) Dibromofluoromethane	5.50	113	227217	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
50) Toluene-d8	8.71	98	863005	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.13	95	299306	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

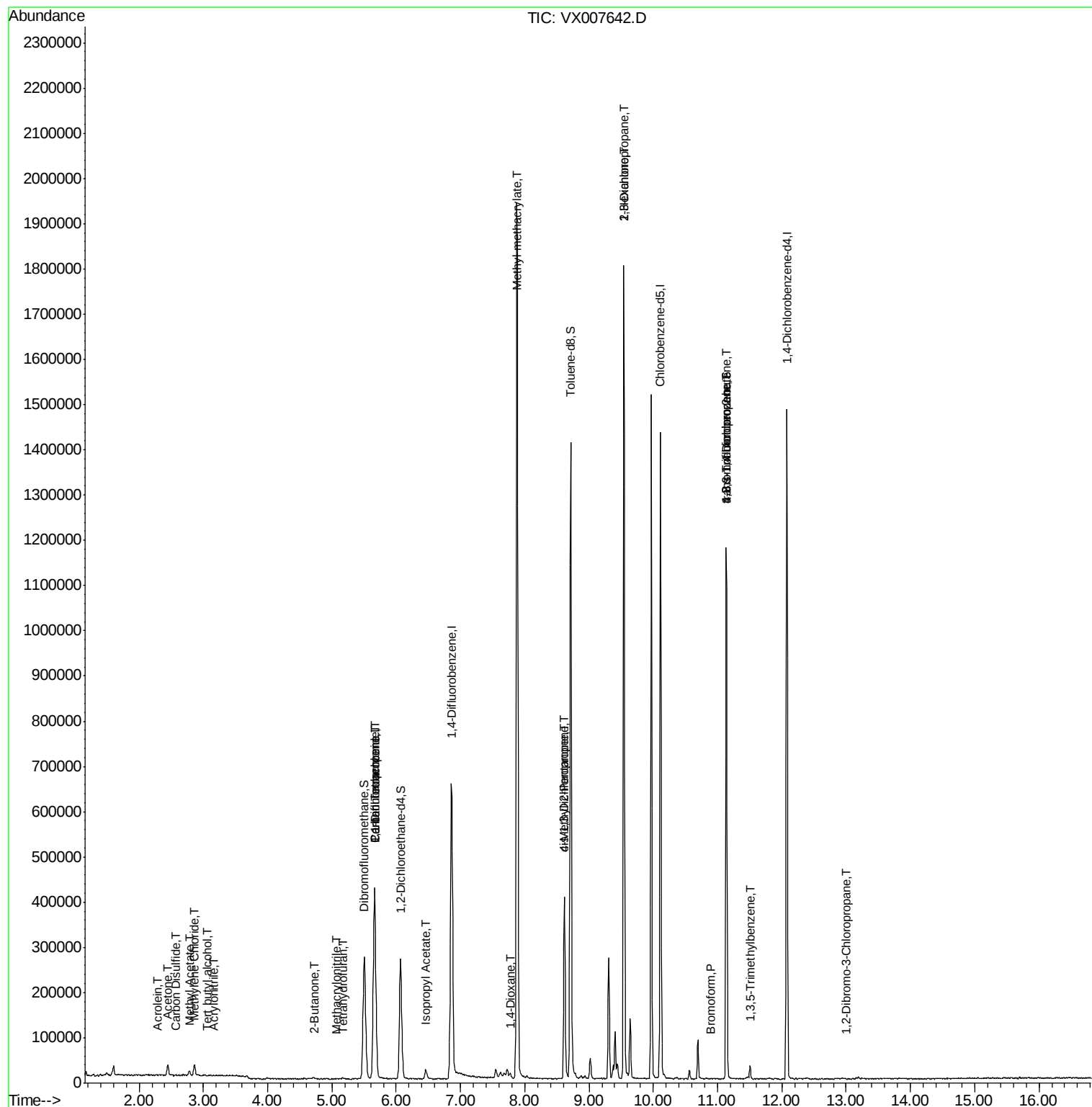
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	597	Below Cal	#	3
11) Tert butyl alcohol	3.06	59	1287	1.400	ug/l #	40
13) Acrolein	2.28	56	475	1.102	ug/l #	80
15) Acrylonitrile	3.15	53	464	0.204	ug/l #	59
16) Acetone	2.45	43	26018	12.782	ug/l	95
17) Carbon Disulfide	2.56	76	248	2.144	ug/l #	75
18) Methyl Acetate	2.78	43	12486	2.920	ug/l #	89
20) Methylene Chloride	2.86	84	11571	2.409	ug/l	92
25) 2-Butanone	4.71	43	5111	1.764	ug/l #	88
29) Tetrahydrofuran	5.17	42	3317	1.821	ug/l	94
36) 1,1-Dichloropropene	5.67	75	28656	4.549	ug/l #	39
38) Carbon Tetrachloride	5.67	117	39569	6.475	ug/l #	17
41) Methacrylonitrile	5.07	41	856	0.251	ug/l #	50
43) Isopropyl Acetate	6.46	43	24608	2.504	ug/l #	91
48) Methyl methacrylate	7.88	41	162199	32.995	ug/l #	41
49) 1,4-Dioxane	7.77	88	109	7.847	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	128238	19.821	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	64660	9.559	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	15665	1.974	ug/l #	46
59) 2-Hexanone	9.54	43	197097	39.149	ug/l #	51
71) Bromoform	10.89	173	94	4.049	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	141109	22.656	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	12025	0.676	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.13	75	141109	68.335	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	13.01	75	276	0.200	ug/l #	1

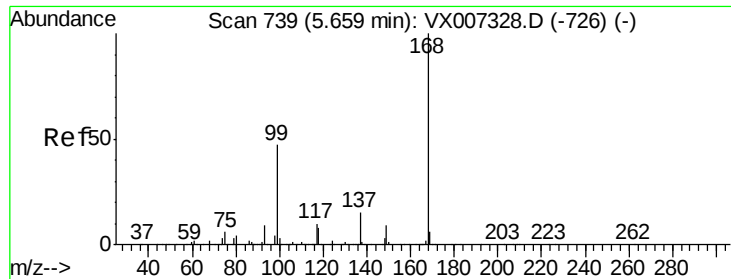
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 22 04:35:54 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: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

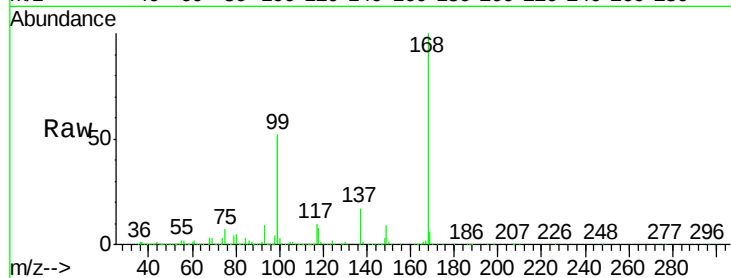
PB117250ZHE#16

Tot Ion:168 Resp: 418637

Ion Ratio Lower Upper

168 100

99 51.9 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

100000

50000

0

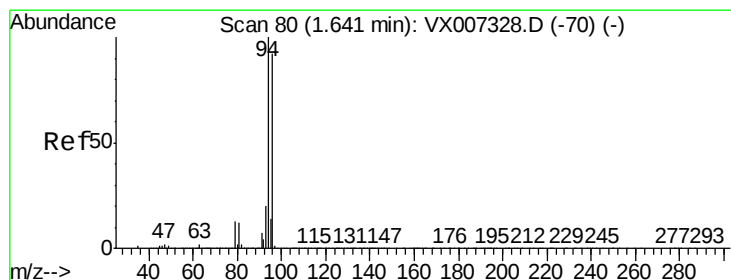
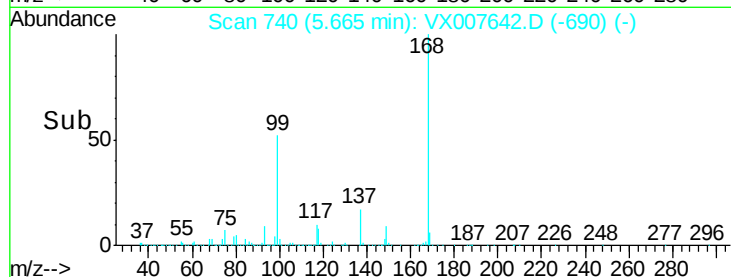
5.67

5.60

5.70

5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX007642.D

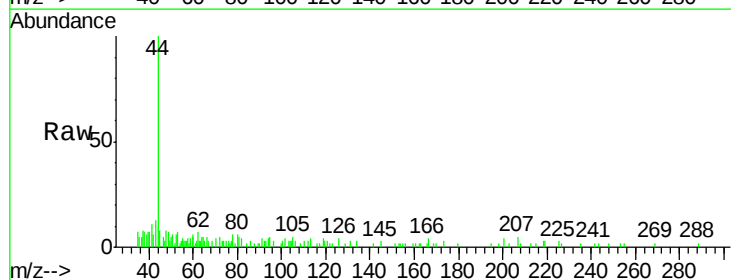
Acq: 21 Feb 2019 20:16

Tgt Ion: 94 Resp: 597

Ion Ratio Lower Upper

94 100

96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

200

100

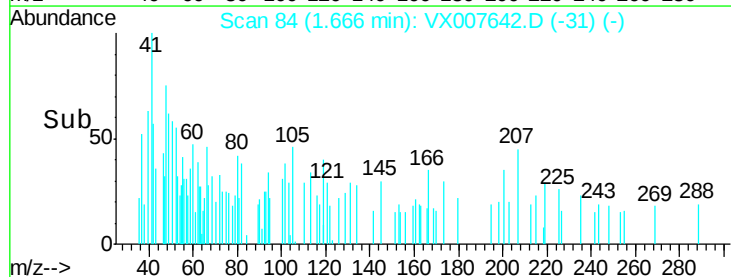
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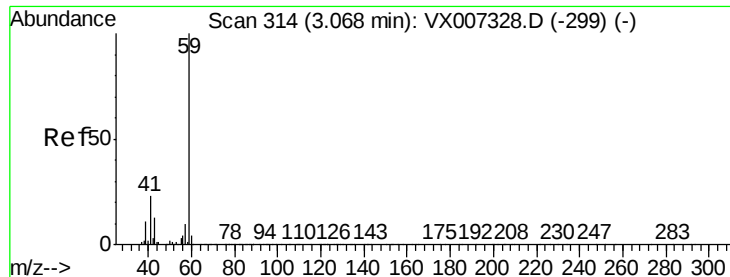
1.67

1.65

1.70

Time-->



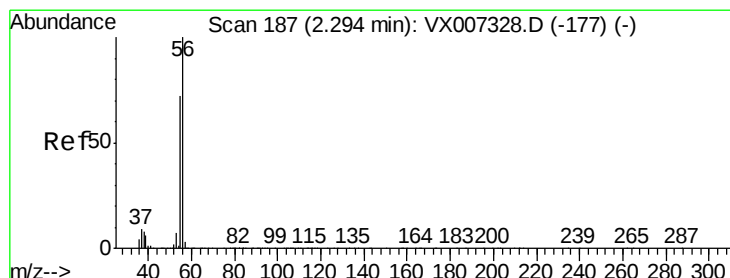
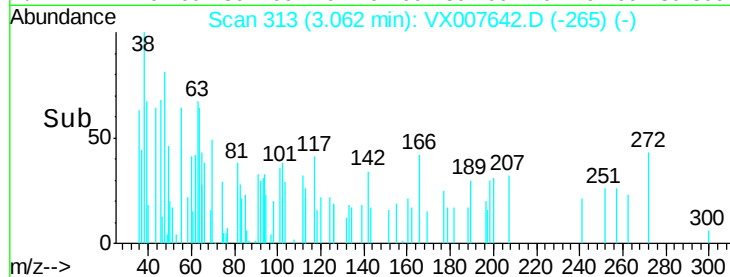
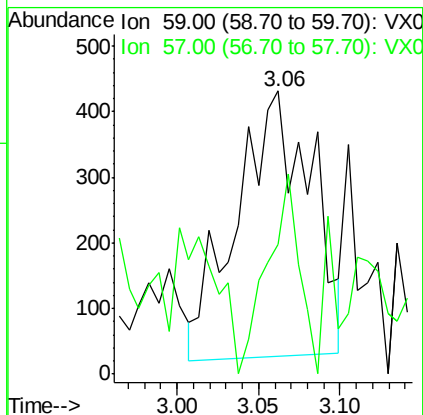
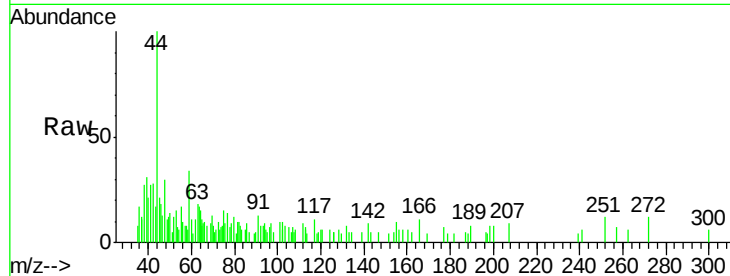


#11

Tert butyl alcohol
 Concen: 1.400 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#16

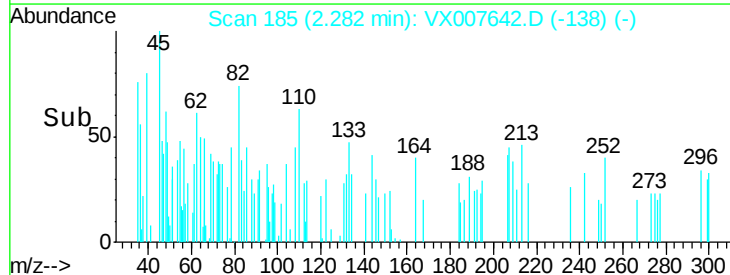
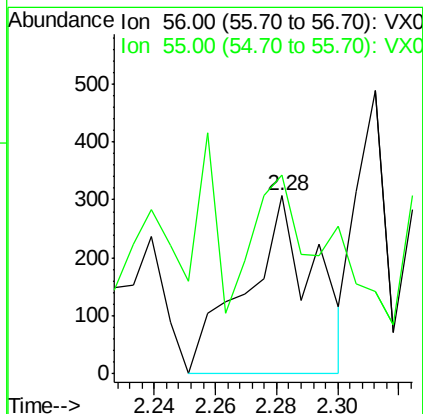
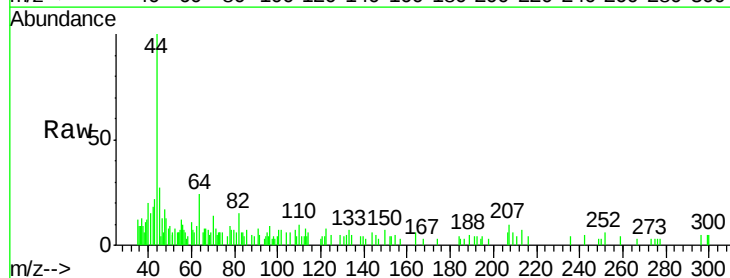
Tot Ion: 59 Resp: 1287
 Ion Ratio Lower Upper
 59 100
 57 32.3 8.1 12.1#

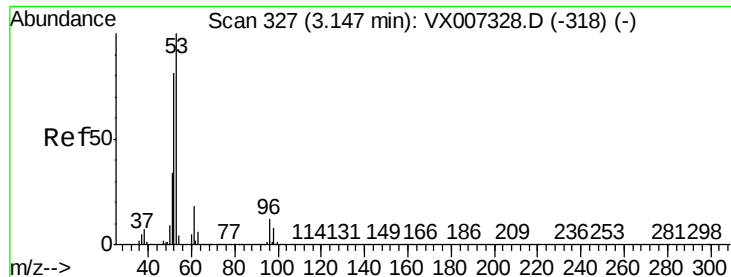


#13

Acrolein
 Concen: 1.102 ug/l
 RT: 2.28 min Scan# 185
 Delta R.T. -0.01 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Tgt Ion: 56 Resp: 475
 Ion Ratio Lower Upper
 56 100
 55 87.6 56.9 85.3#





#15

Acrylonitrile

Concen: 0.204 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#16

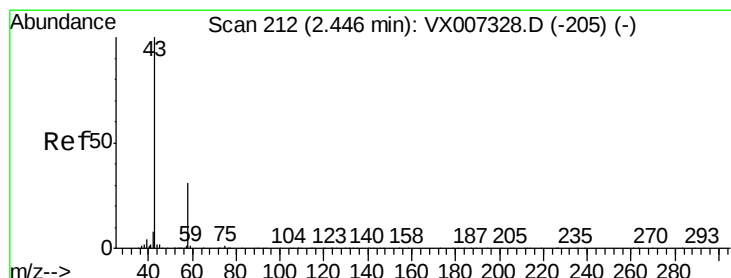
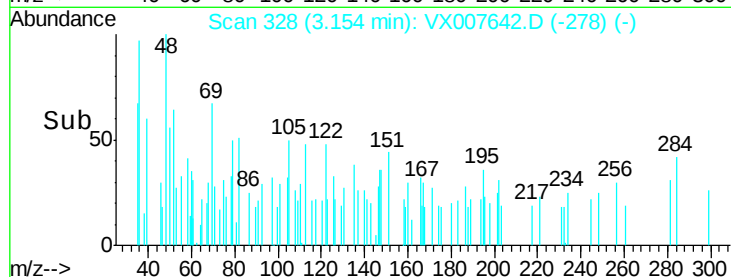
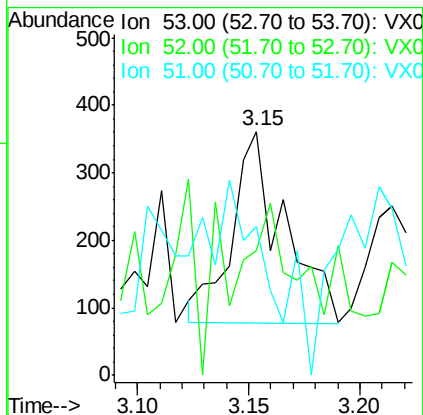
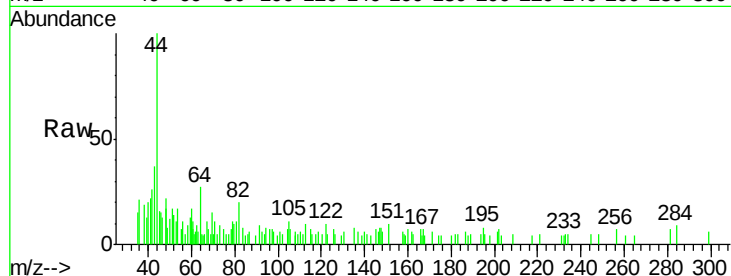
Tot Ion: 53 Resp: 464

Ion Ratio Lower Upper

53 100

52 119.4 66.4 99.6#

51 60.1 28.4 42.6#



#16

Acetone

Concen: 12.782 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007642.D

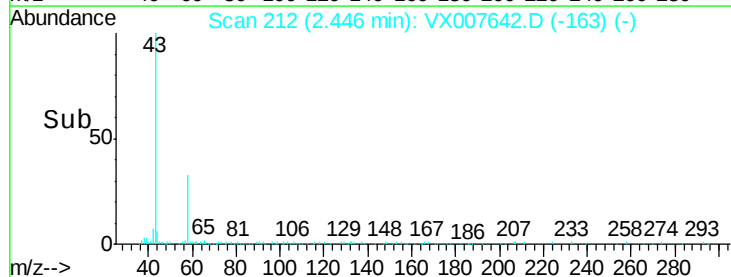
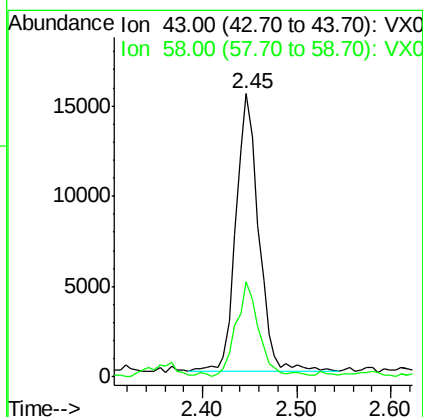
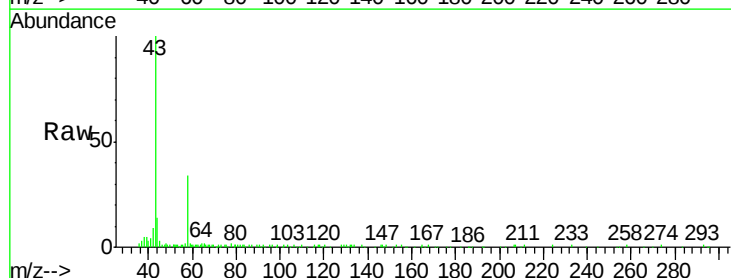
Acq: 21 Feb 2019 20:16

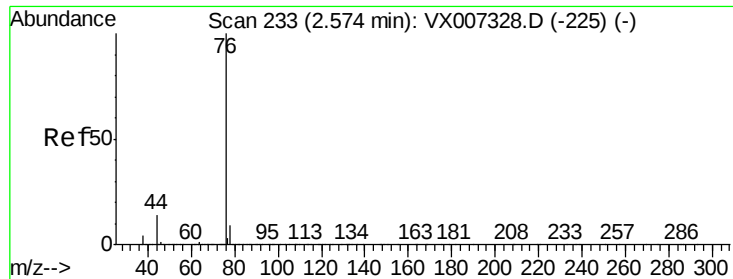
Tgt Ion: 43 Resp: 26018

Ion Ratio Lower Upper

43 100

58 33.6 24.9 37.3

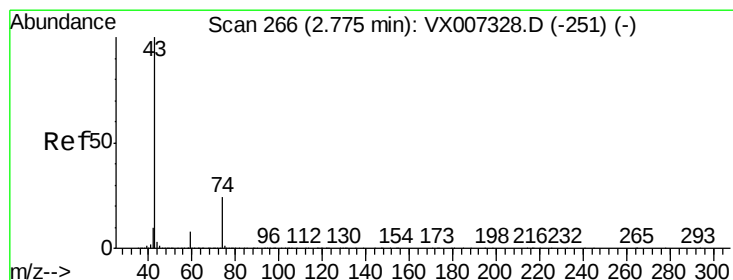
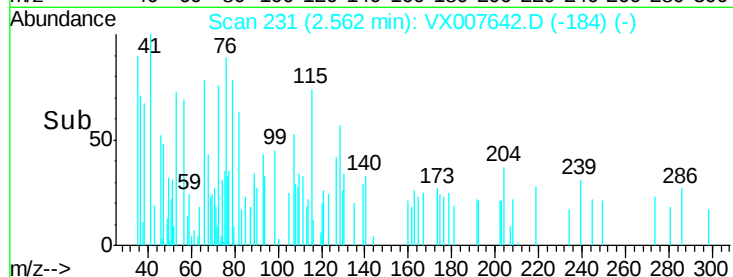
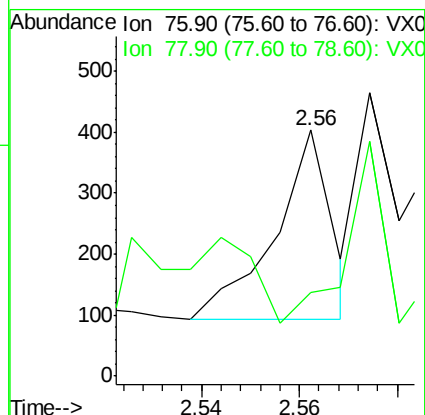
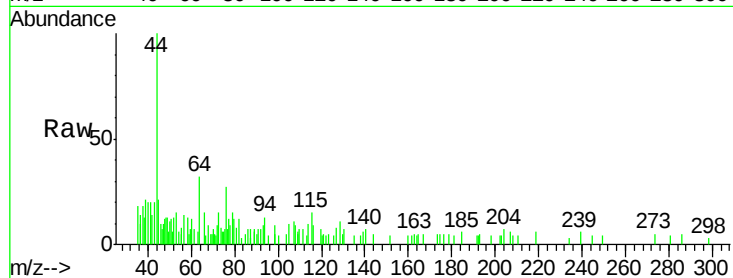




#17
Carbon Disulfide
Concen: 2.144 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.01 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

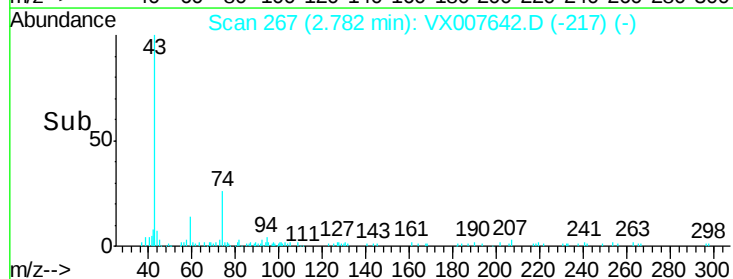
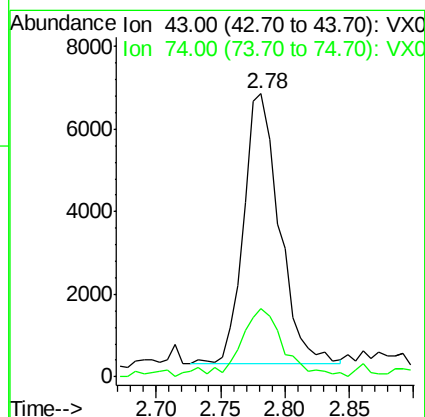
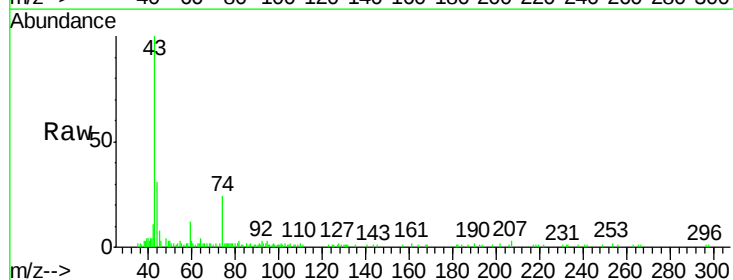
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

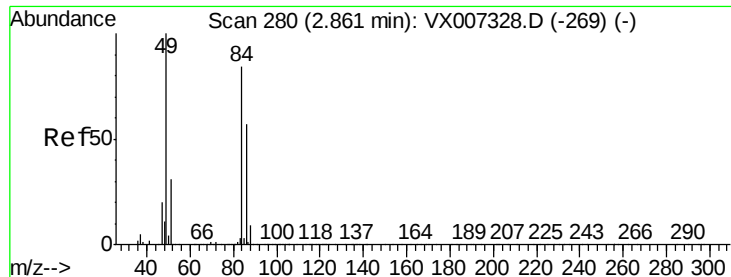
Tot Ion: 76 Resp: 248
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 2.920 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion: 43 Resp: 12486
Ion Ratio Lower Upper
43 100
74 29.8 19.4 29.2#

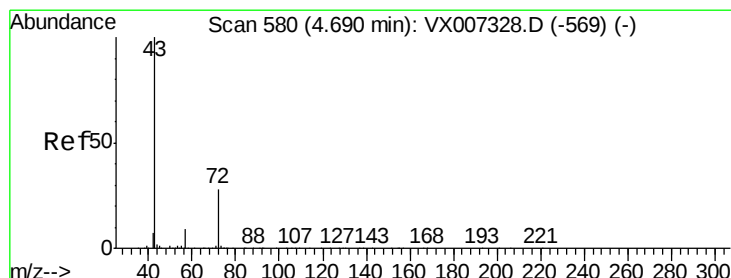
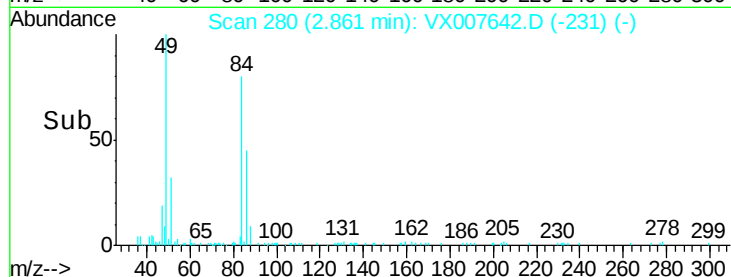
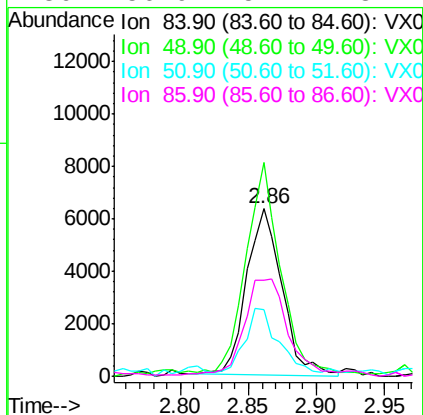
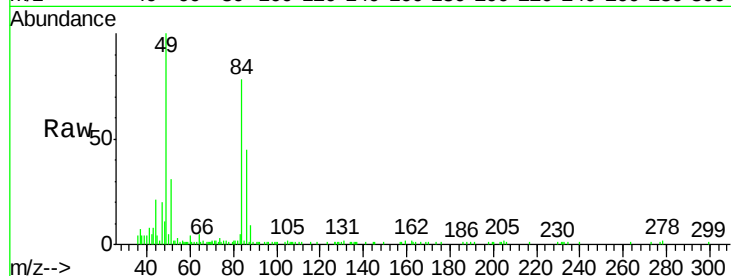




#20
Methvlene Chloride
Concen: 2.409 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

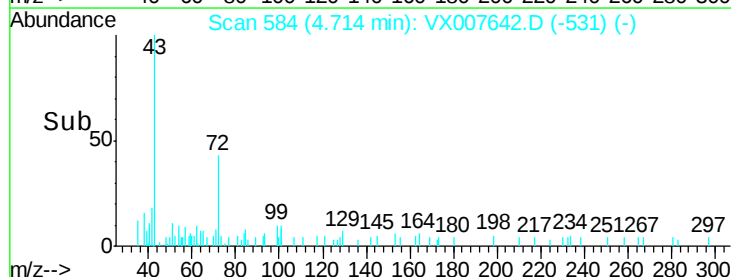
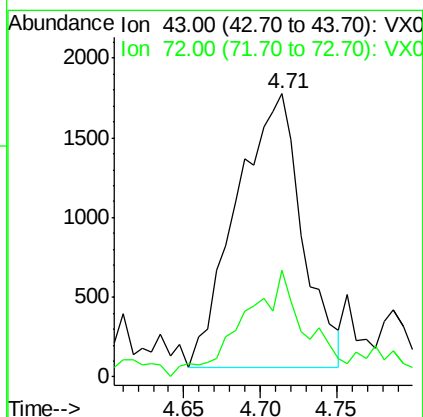
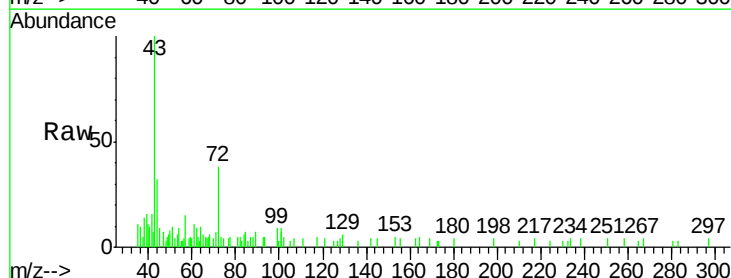
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

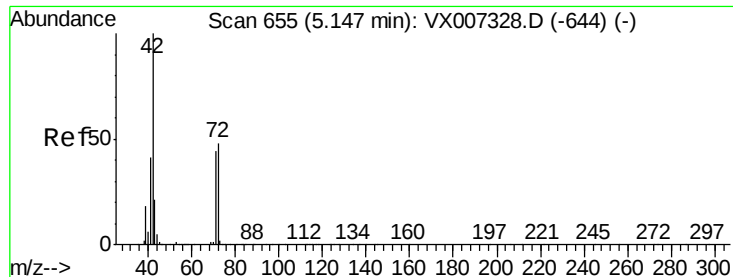
Tot Ion:	84	Resp:	11571
Ion	Ratio	Lower	Upper
84	100		
49	126.7	94.8	142.2
51	37.2	29.8	44.8
86	56.9	54.1	81.1



#25
2-Butanone
Concen: 1.764 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion:	43	Resp:	5111
Ion	Ratio	Lower	Upper
43	100		
72	34.1	22.2	33.2#

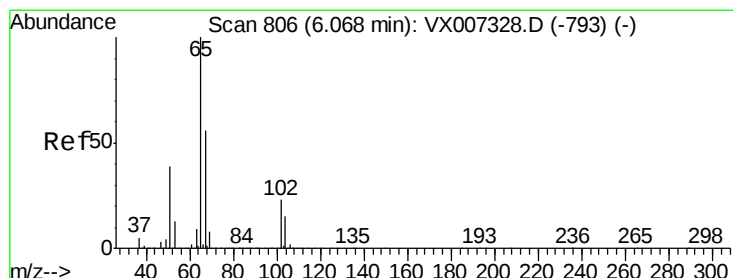
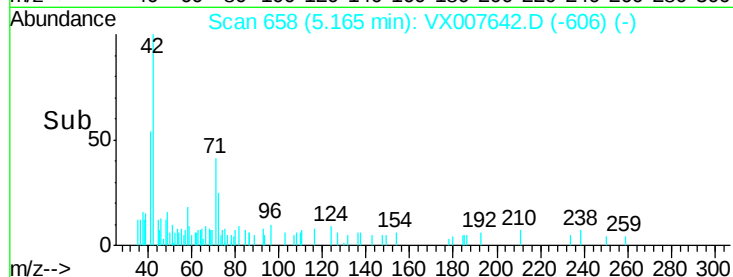
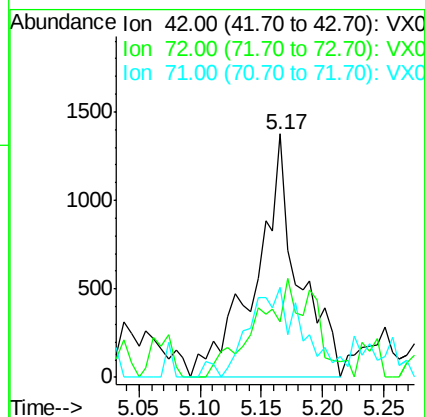
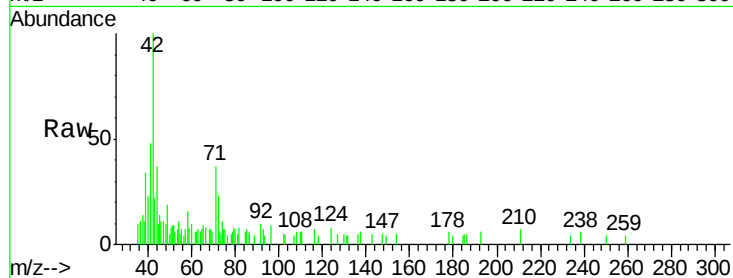




#29
Tetrahydrofuran
Concen: 1.821 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

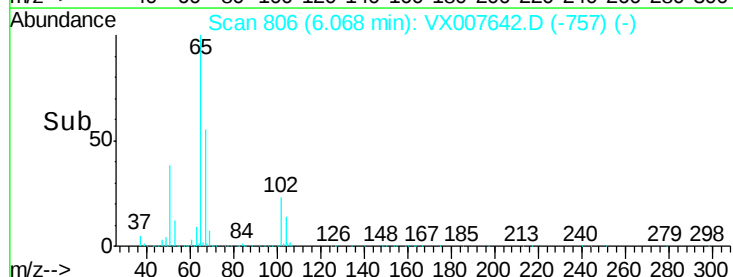
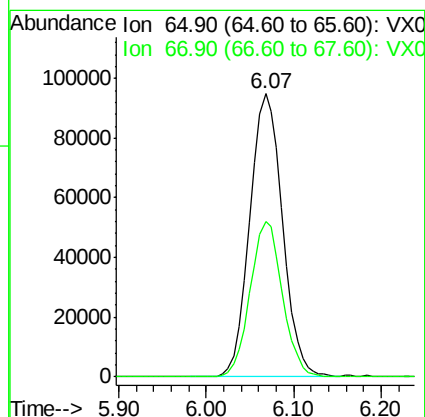
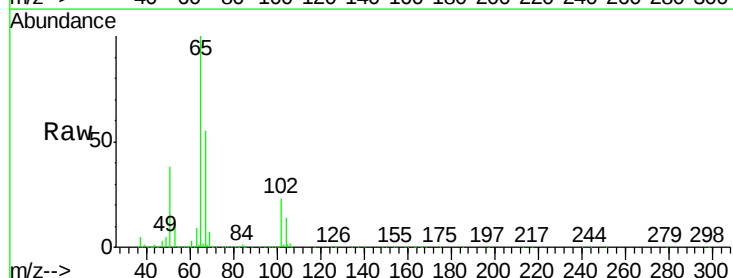
Instrument :
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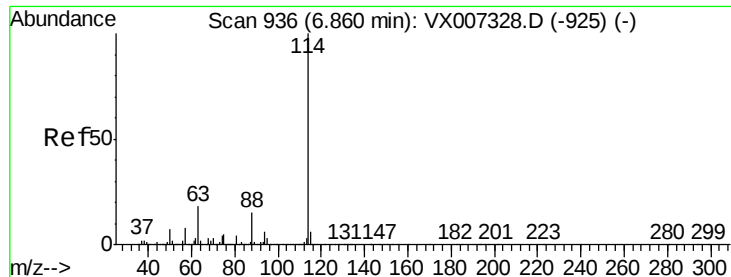
Tot Ion: 42 Resp: 3317
Ion Ratio Lower Upper
42 100
72 40.5 37.6 56.4
71 44.3 34.6 51.8



#33
1,2-Dichloroethane-d4
Concen: 55.524 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion: 65 Resp: 246720
Ion Ratio Lower Upper
65 100
67 53.6 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: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#16

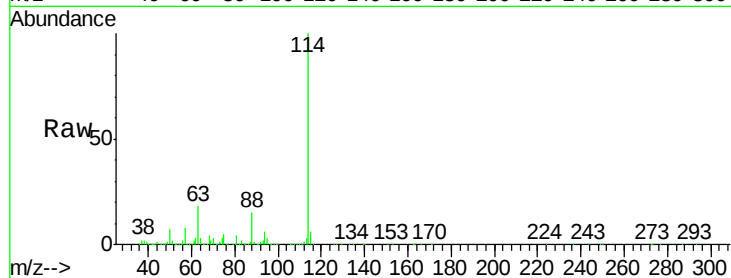
Tot Ion:114 Resp: 702014

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

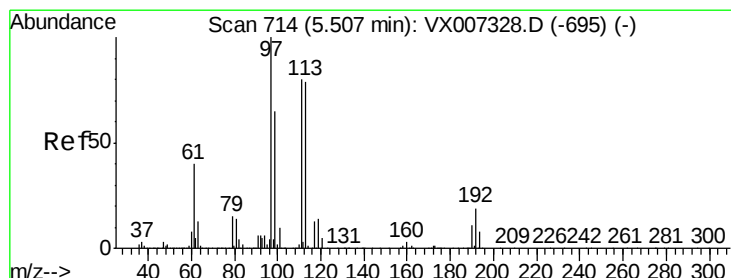
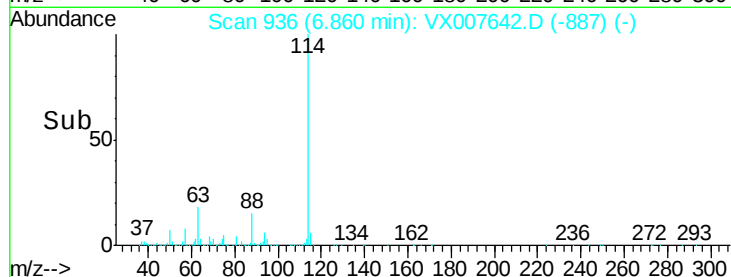
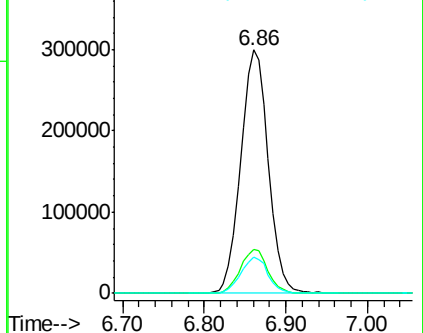
88 14.6 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.744 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

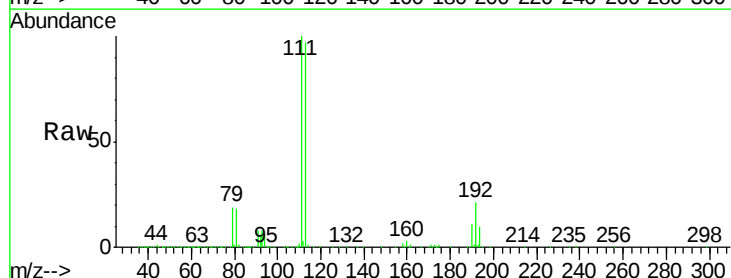
Tgt Ion:113 Resp: 227217

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

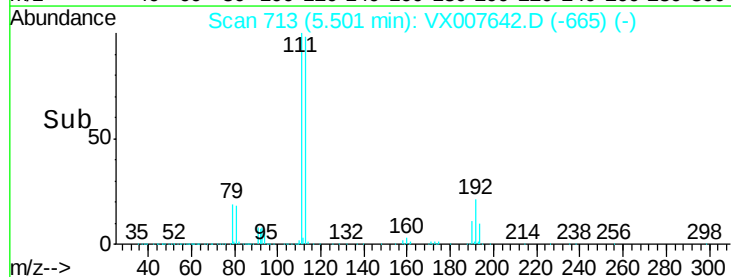
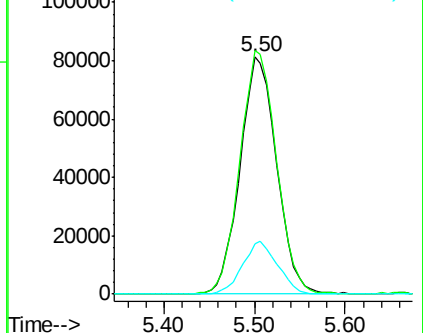
192 21.5 18.5 27.7

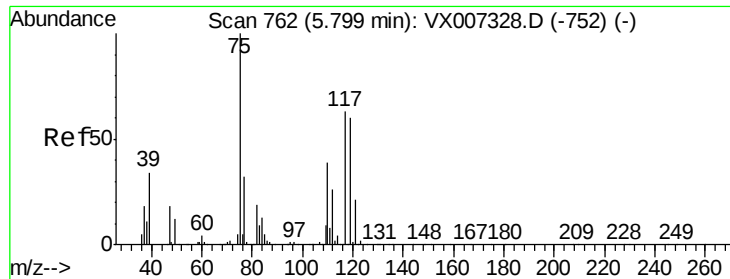


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

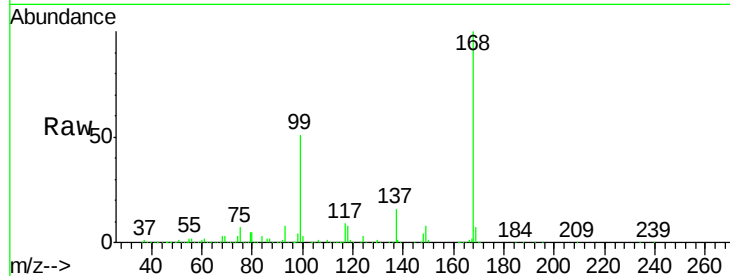




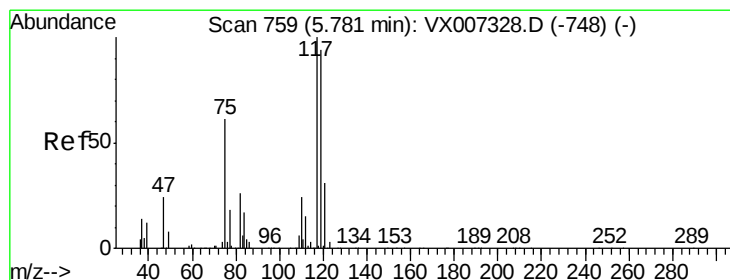
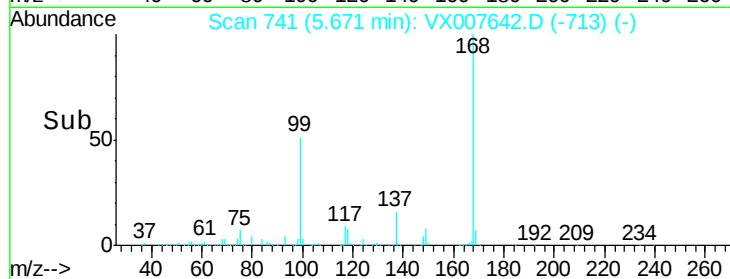
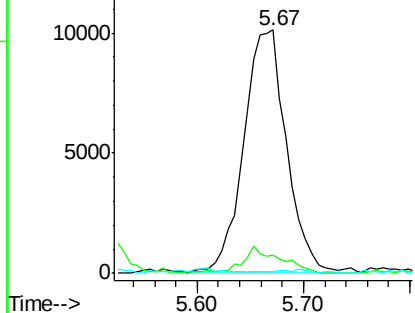
#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.13 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#16

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.0	59.9#
77	0.3	24.7	37.1#

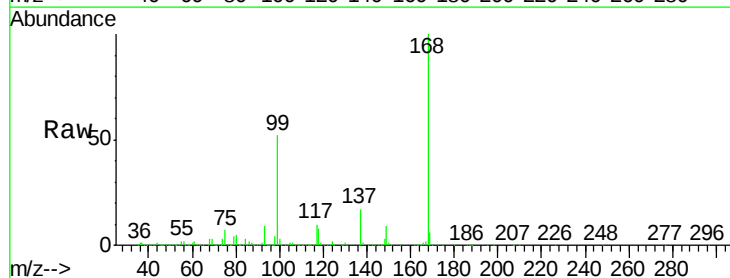


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

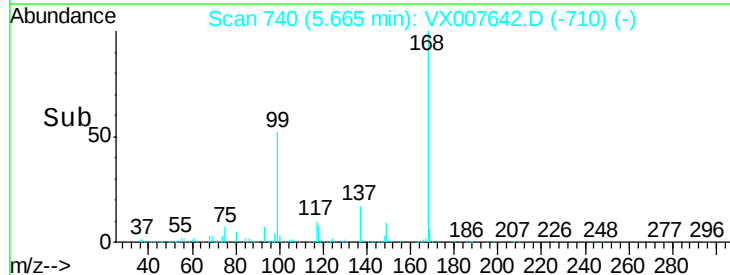
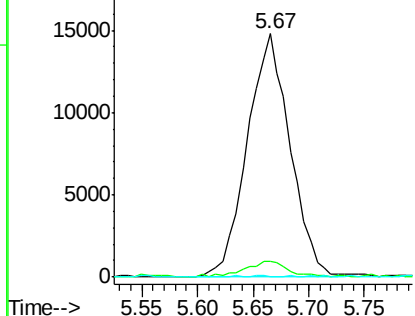


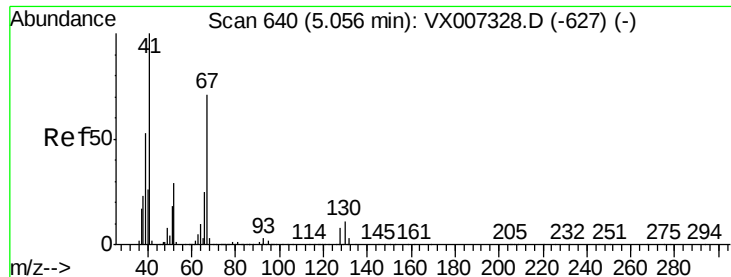
#38
 Carbon Tetrachloride
 Concen: 6.475 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	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

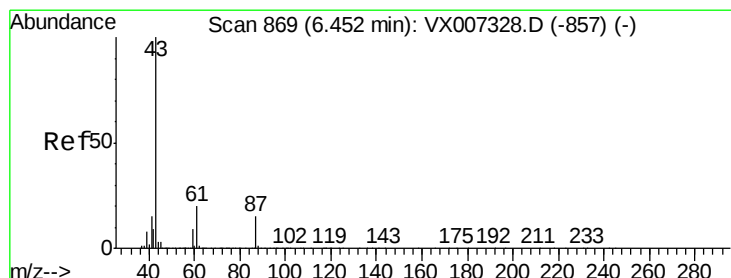
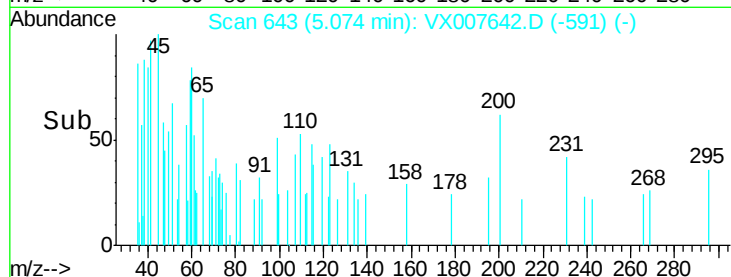
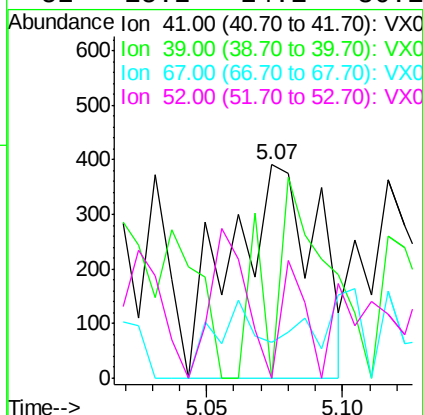
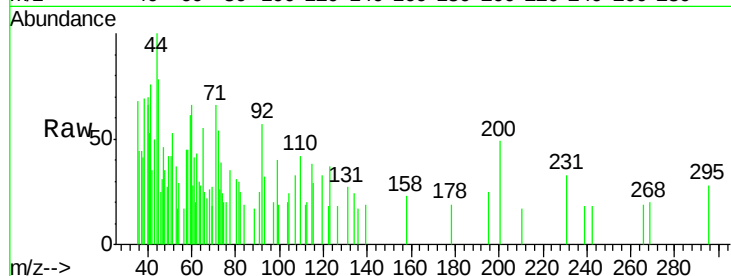




#41
Methacrylonitrile
Concen: 0.251 ug/l
RT: 5.07 min Scan# 643
Delta R.T. 0.02 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

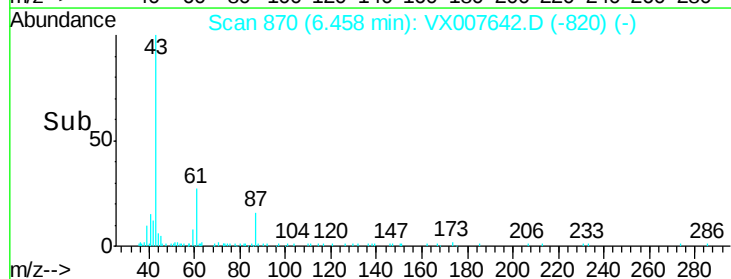
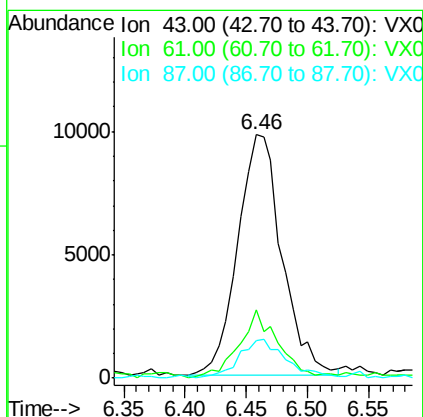
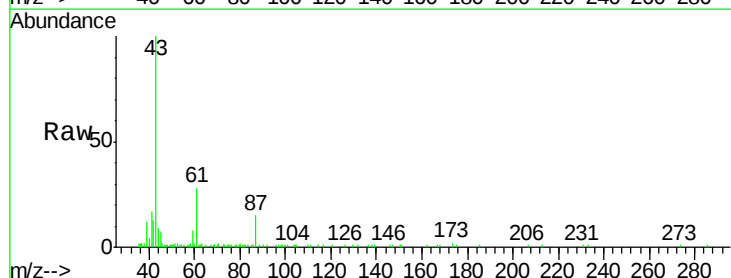
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

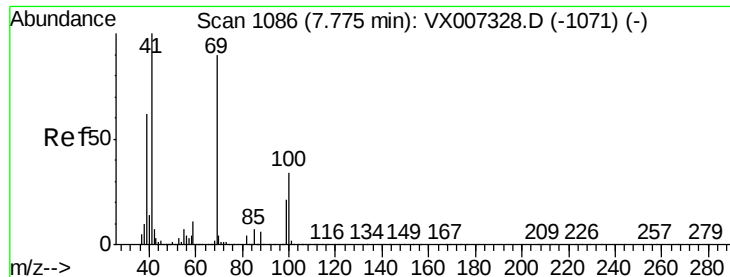
Tot Ion:	41	Resp:	856
Ion	Ratio	Lower	Upper
41	100		
39	62.4	44.5	66.7
67	0.0	60.4	90.6#
52	15.2	24.1	36.1#



#43
Isopropyl Acetate
Concen: 2.504 ug/l
RT: 6.46 min Scan# 870
Delta R.T. 0.01 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion:	43	Resp:	24608
Ion	Ratio	Lower	Upper
43	100		
61	24.9	16.1	24.1#
87	16.9	11.5	17.3





#48

Methyl methacrylate

Concen: 32.995 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.10 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#16

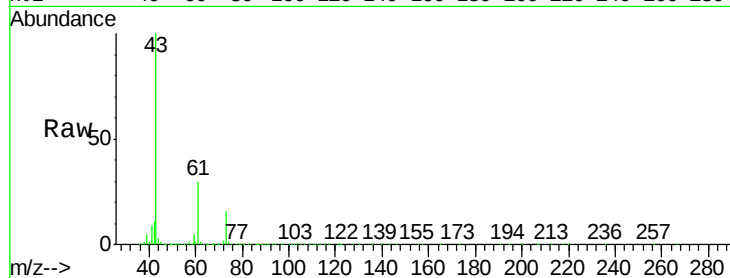
Tot Ion: 41 Resp: 162199

Ion Ratio Lower Upper

41 100

69 0.4 70.2 105.4#

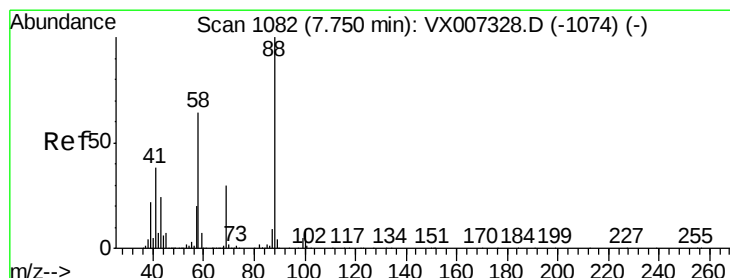
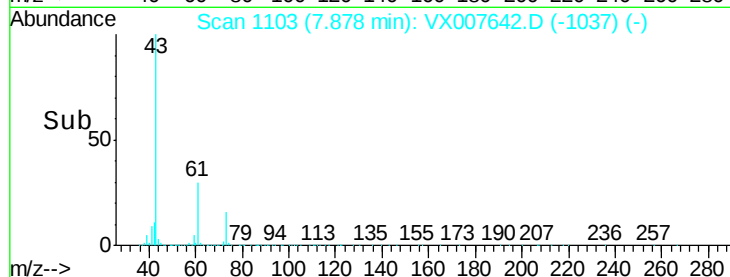
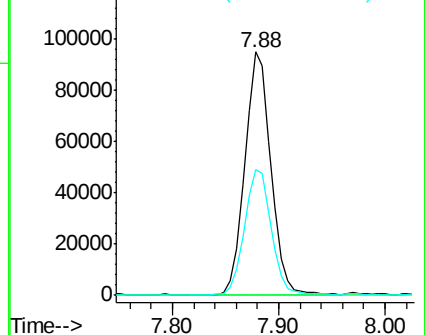
39 54.0 47.4 71.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 7.847 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

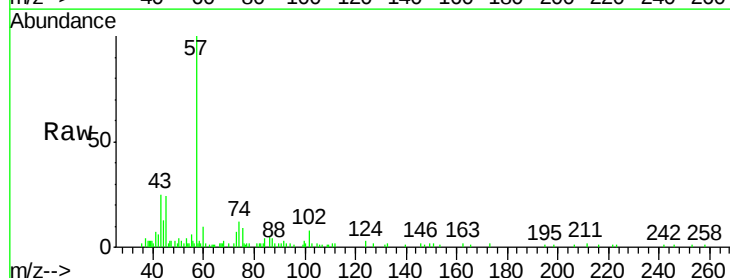
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

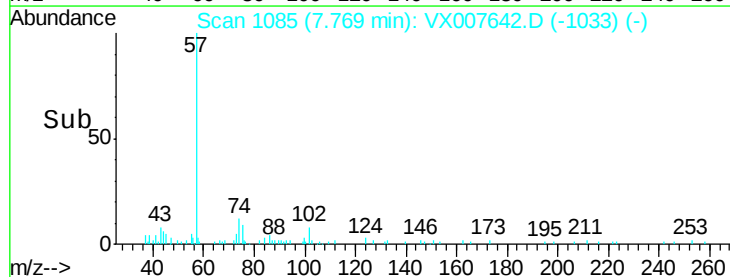
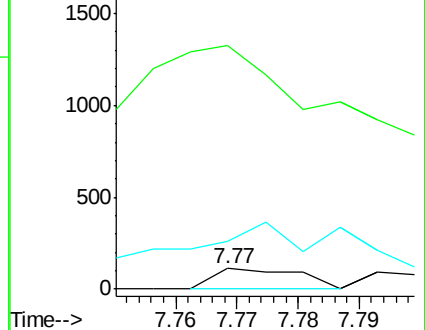
58 525.7 53.0 79.4#

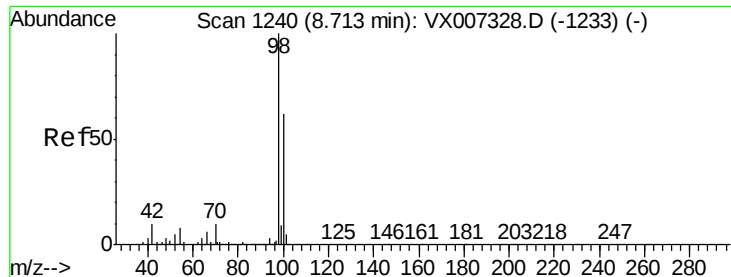


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.923 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

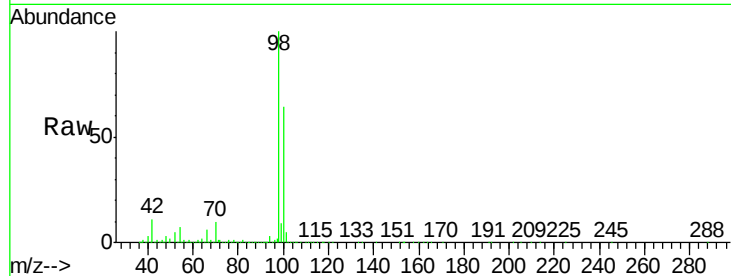
PB117250ZHE#16

Tot Ion: 98 Resp: 863005

Ion Ratio Lower Upper

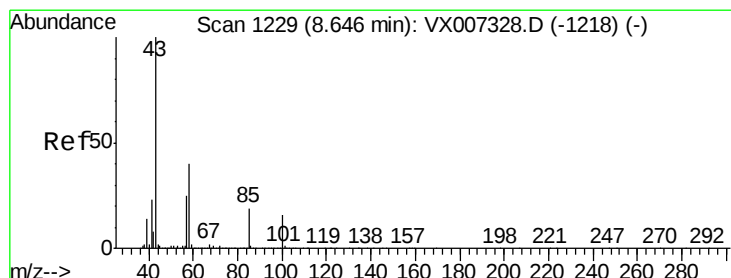
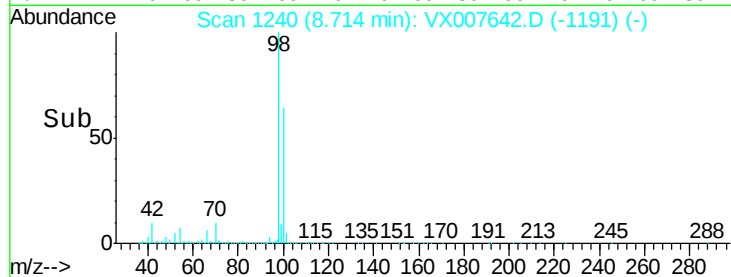
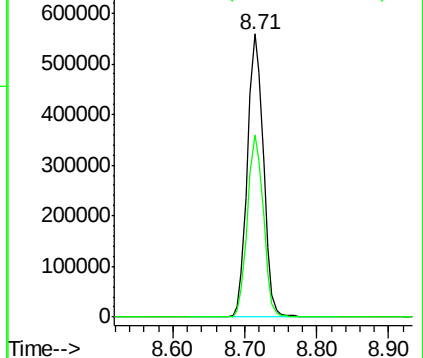
98 100

100 64.0 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: 19.821 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007642.D

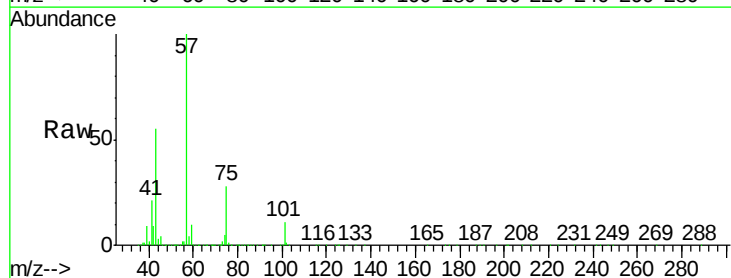
Acq: 21 Feb 2019 20:16

Tgt Ion: 43 Resp: 128238

Ion Ratio Lower Upper

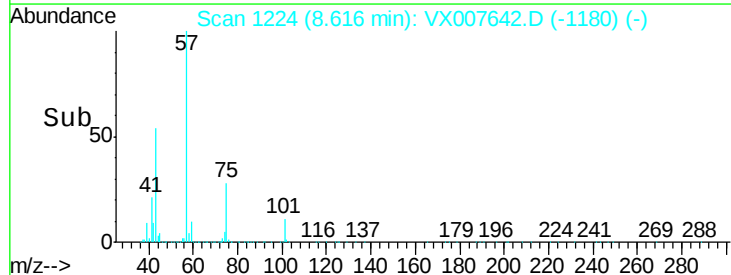
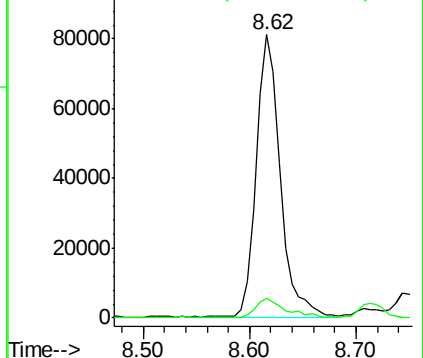
43 100

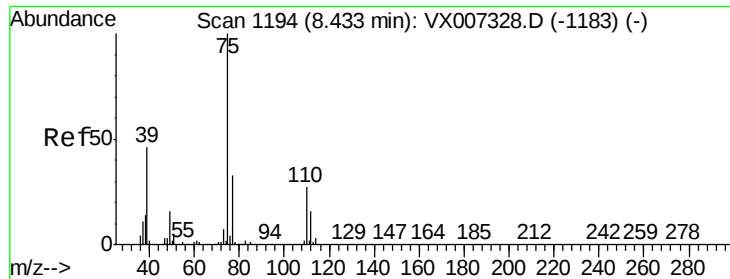
58 8.8 31.2 46.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



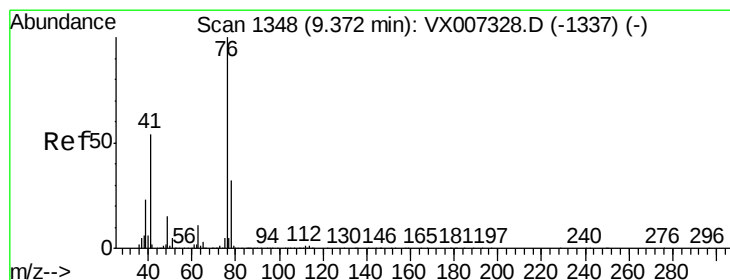
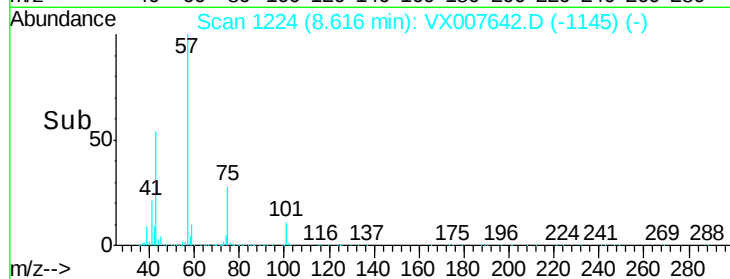
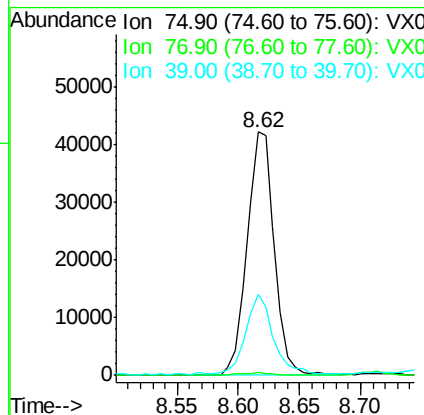
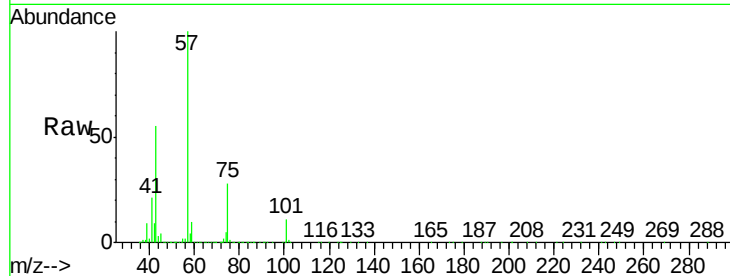


#54

cis-1,3-Dichloropropene
 Concen: 9.559 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#16

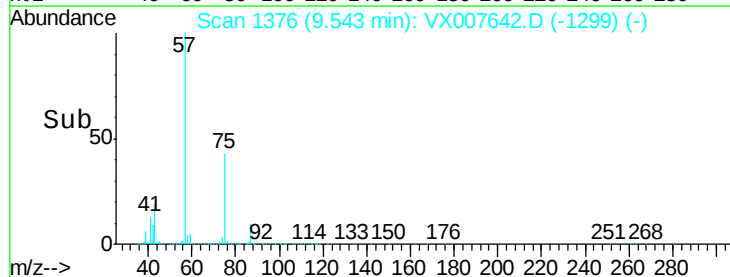
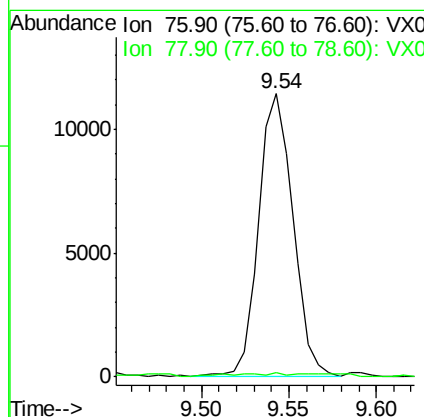
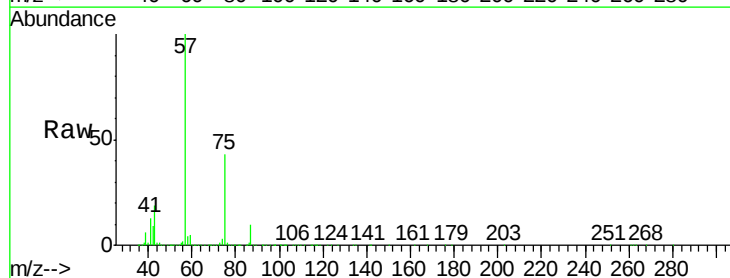
Tot Ion	Ratio	Lower	Upper
75	100		
77	1.1	26.2	39.4#
39	33.0	37.1	55.7#

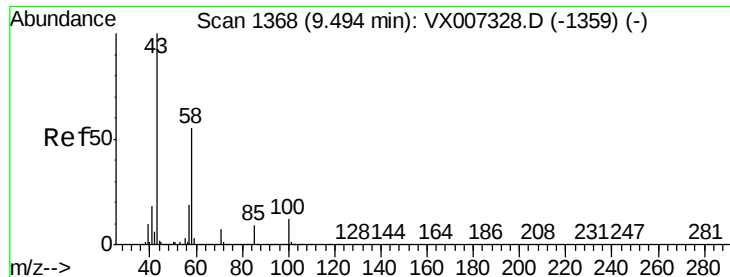


#57

1,3-Dichloropropane
 Concen: 1.974 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Tgt Ion	Ratio	Lower	Upper
76	100		
78	2.2	25.8	38.8#

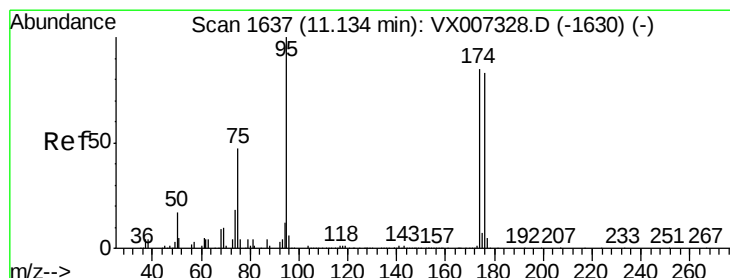
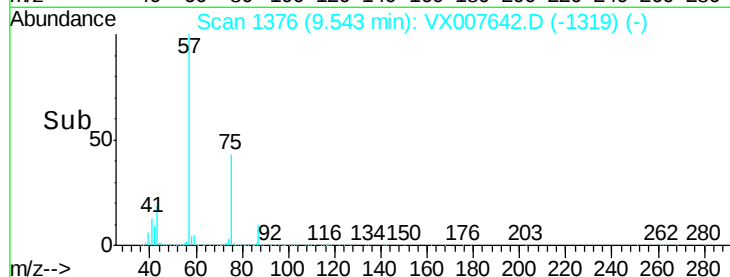
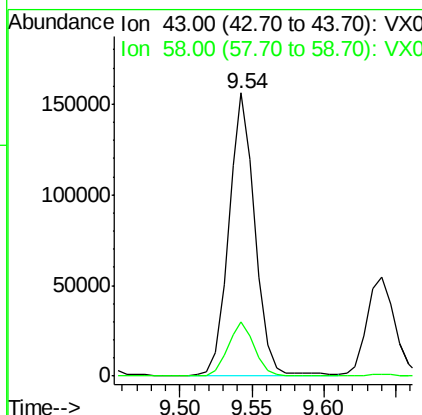
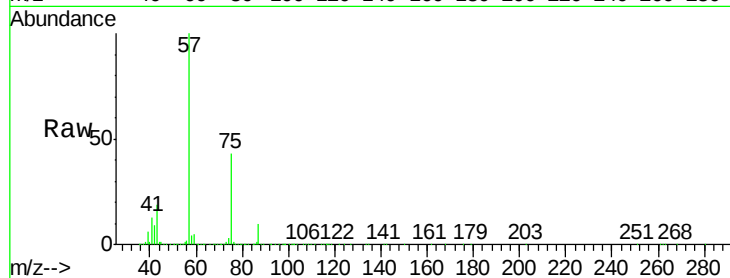




#59
2-Hexanone
Concen: 39.149 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

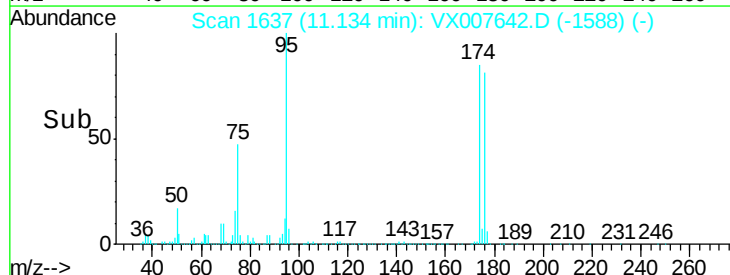
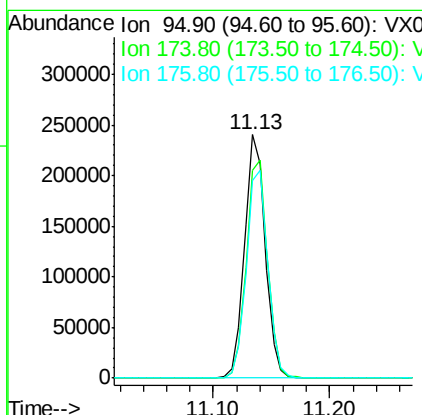
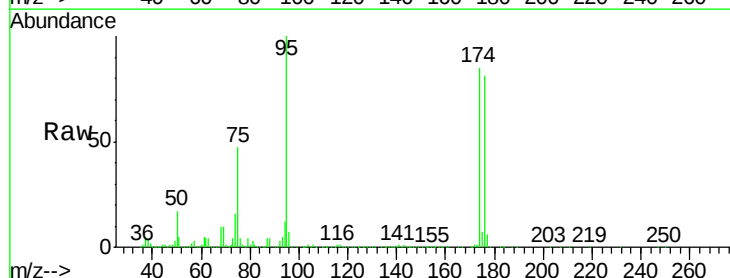
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

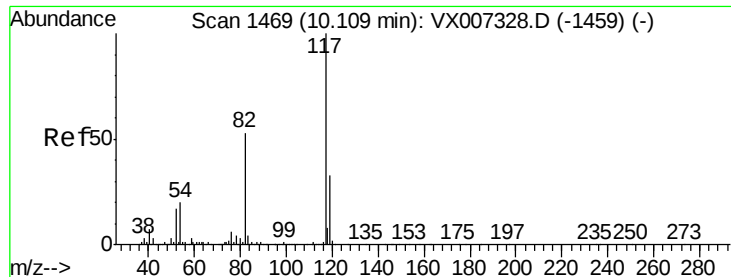
Tot Ion: 43 Resp: 197097
Ion Ratio Lower Upper
43 100
58 19.3 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 48.373 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion: 95 Resp: 299306
Ion Ratio Lower Upper
95 100
174 92.5 0.0 189.2
176 88.9 0.0 186.2

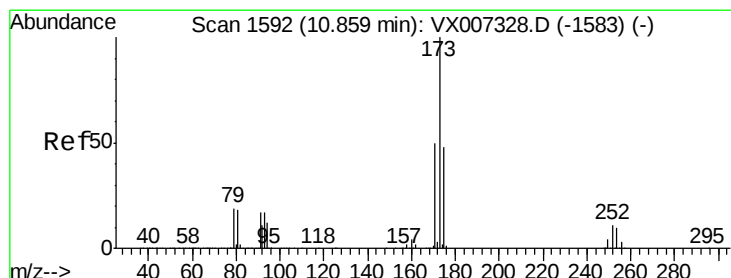
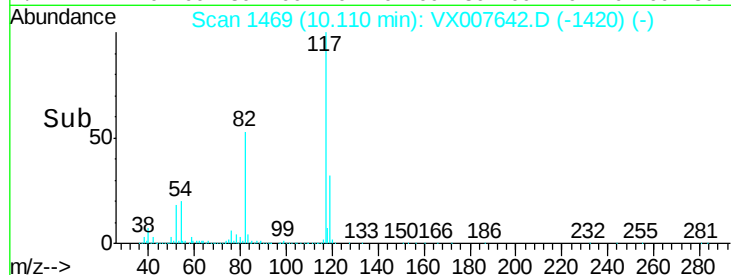
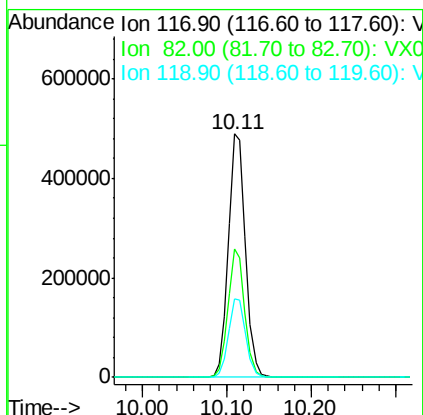
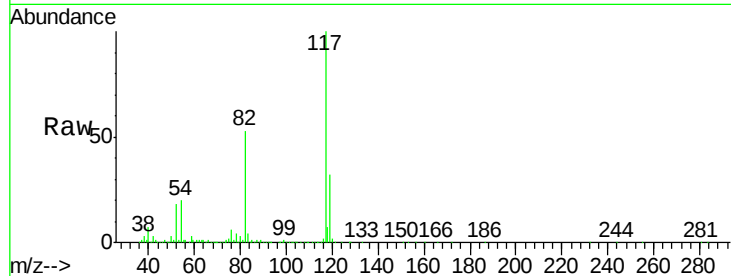




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

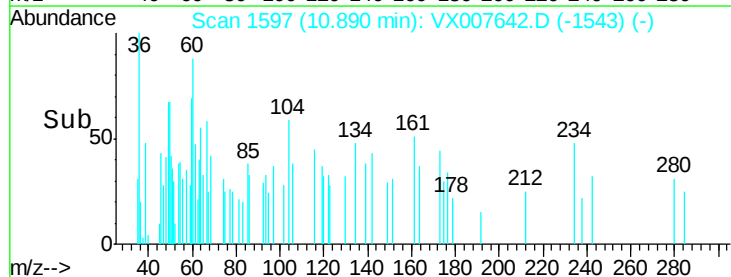
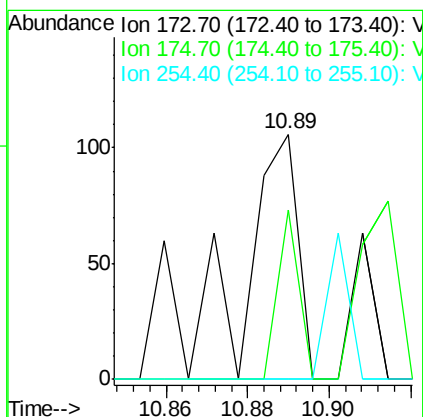
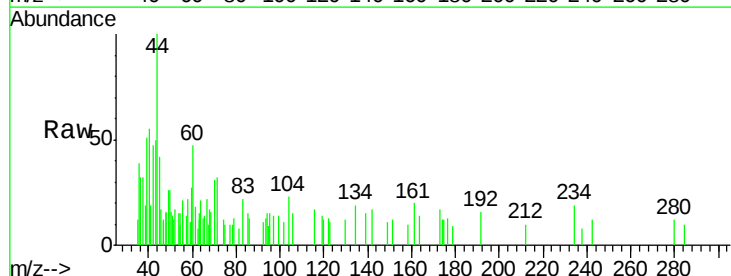
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

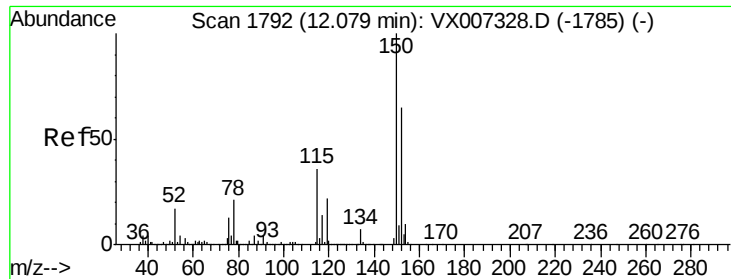
Tot Ion:117 Resp: 684944
Ion Ratio Lower Upper
117 100
82 52.5 42.1 63.1
119 32.1 26.5 39.7



#71
Bromoform
Concen: 4.049 ug/l
RT: 10.89 min Scan# 1597
Delta R.T. 0.03 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion:173 Resp: 94
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 24.5 0.2 0.2#



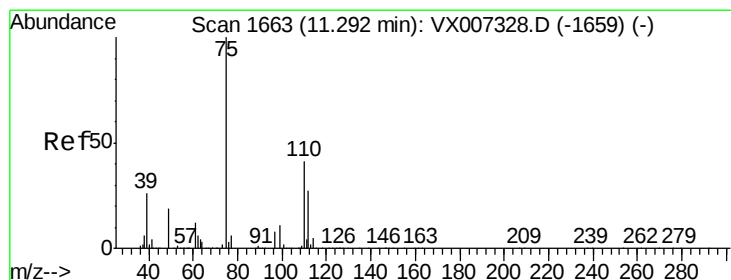
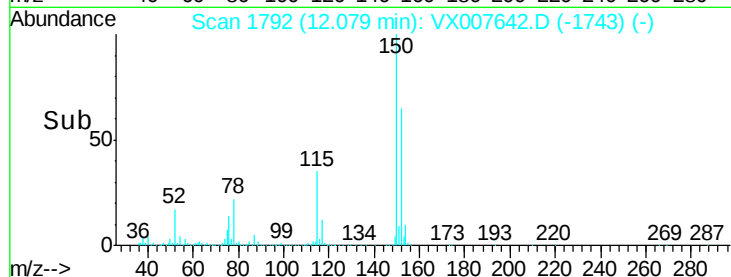
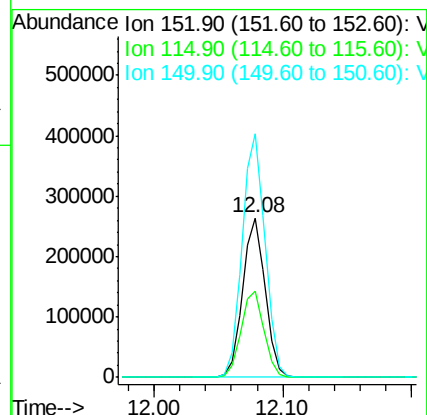
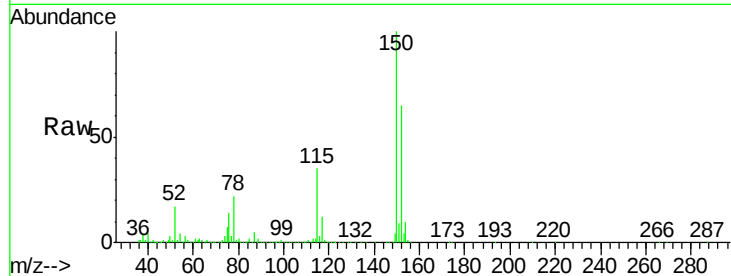


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#16

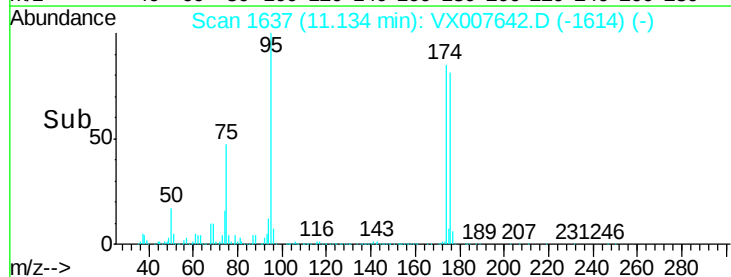
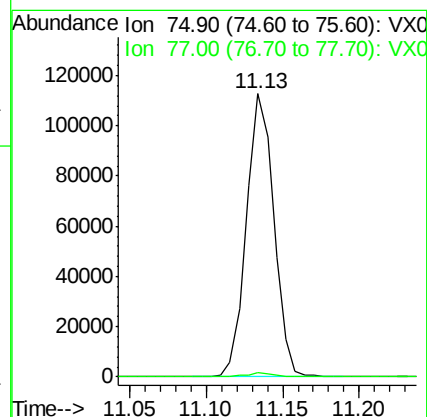
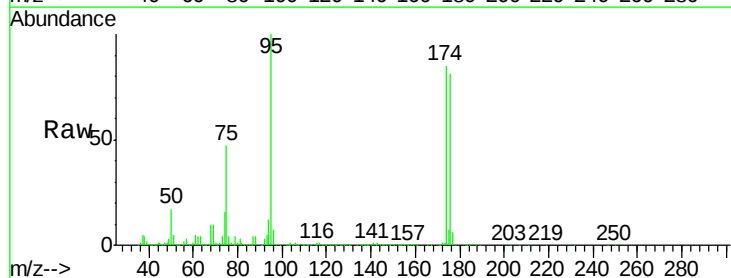
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.4	38.0	114.0
150	155.0	0.0	346.4

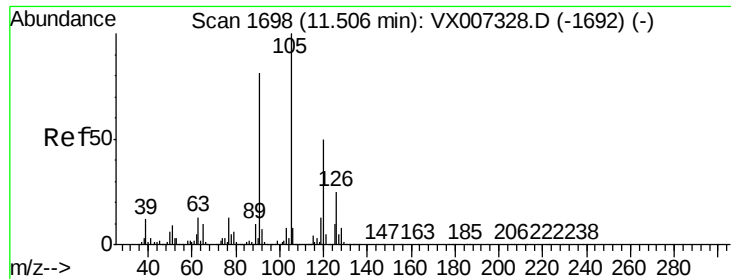


#76

1,2,3-Trichloropropane
Concen: 22.656 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007642.D
Acq: 21 Feb 2019 20:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	23.0	69.0#

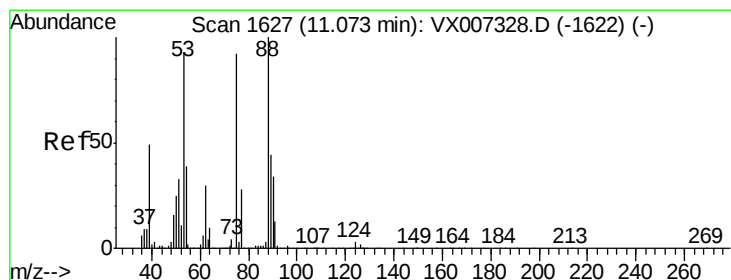
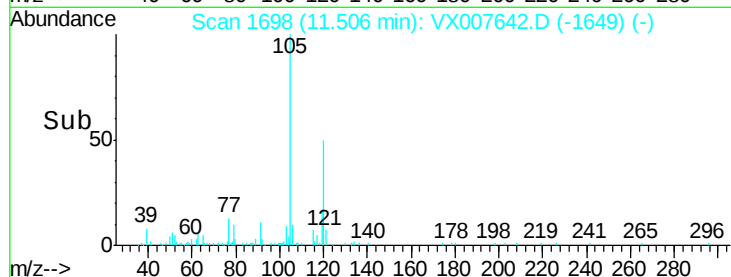
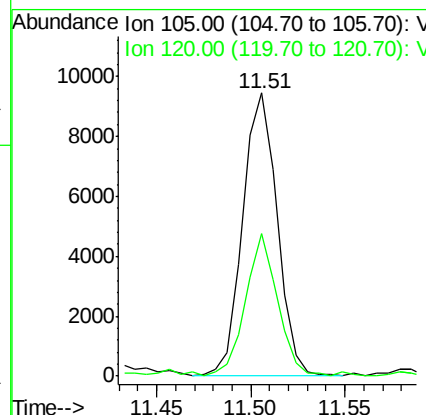
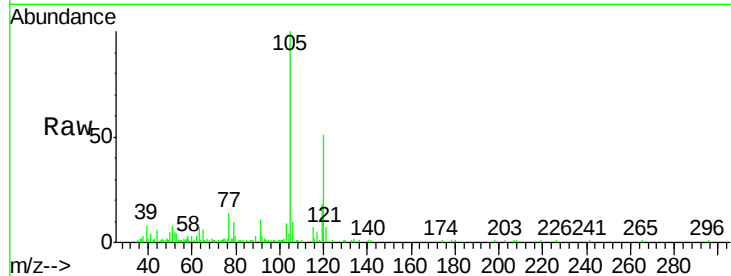




#80
 1,3,5-Trimethylbenzene
 Concen: 0.676 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

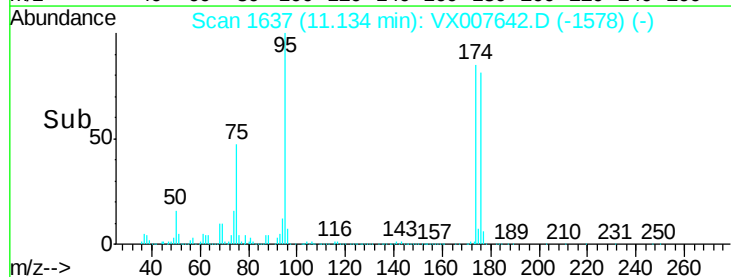
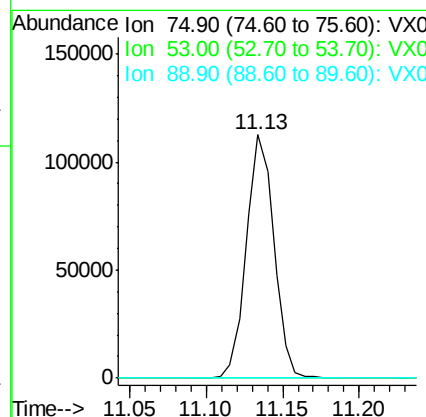
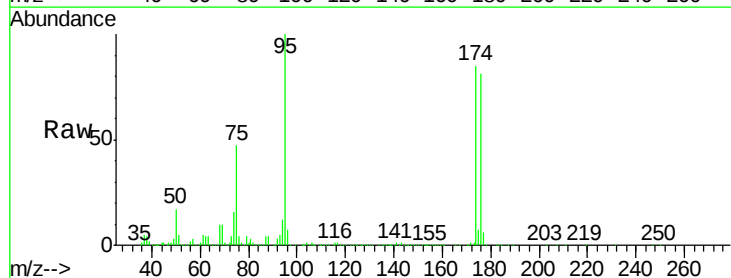
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#16

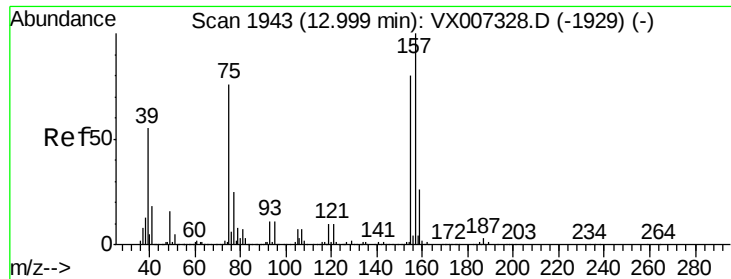
Tot Ion:105 Resp: 12025
 Ion Ratio Lower Upper
 105 100
 120 46.8 25.3 75.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.335 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007642.D
 Acq: 21 Feb 2019 20:16

Tgt Ion: 75 Resp: 141109
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.0 121.6#
 89 0.0 41.4 62.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.200 ug/l

RT: 13.01 min Scan# 1944

Delta R.T. 0.01 min

Lab File: VX007642.D

Acq: 21 Feb 2019 20:16

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#16

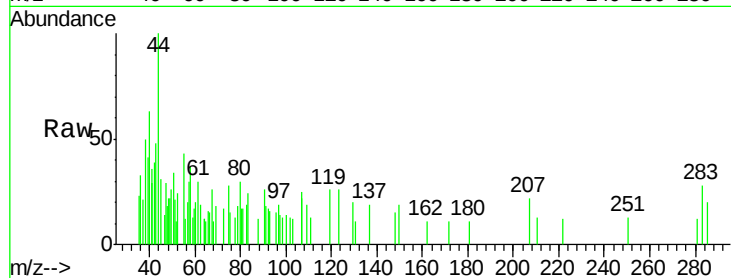
Tot Ion: 75 Resp: 276

Ion Ratio Lower Upper

75 100

155 9.1 49.6 149.0#

157 0.0 65.1 195.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

