

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022119\
 Data File : VX007637.D
 Acq On : 21 Feb 2019 18:02
 Operator : JC/SP
 Sample : PB117250ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#11

Quant Time: Feb 22 04:34:26 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	430522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	710112	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	703391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	331053	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	250289	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
35) Dibromofluoromethane	5.51	113	234751	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
50) Toluene-d8	8.71	98	882569	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.13	95	309006	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	

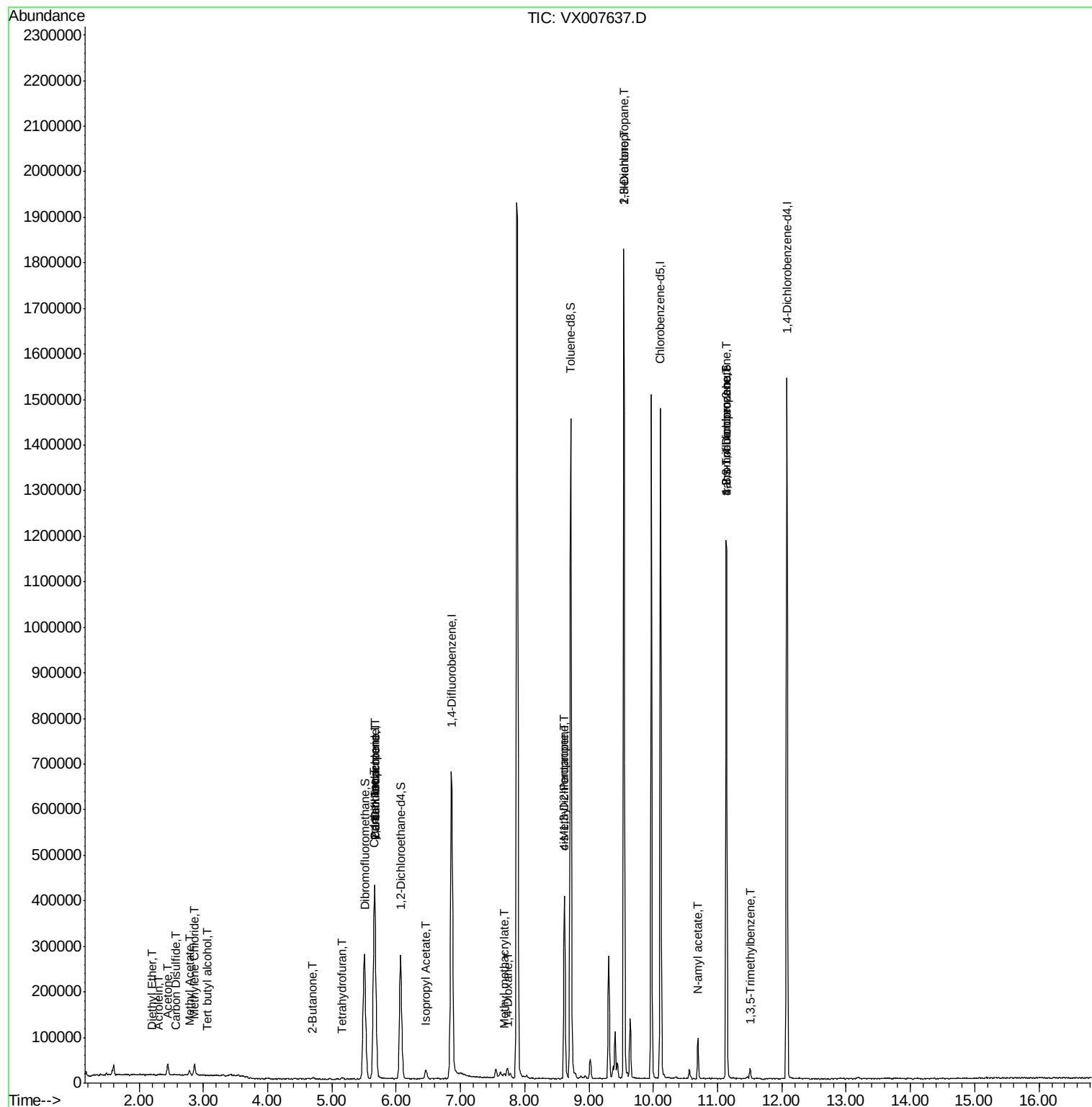
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	434	Below Cal	#	41
8) Diethyl Ether	2.20	74	779	0.278	ug/l	74
11) Tert butyl alcohol	3.06	59	1376	1.455	ug/l #	52
13) Acrolein	2.30	56	750	1.691	ug/l #	56
16) Acetone	2.45	43	27066	12.930	ug/l	98
17) Carbon Disulfide	2.57	76	804	2.193	ug/l #	75
18) Methyl Acetate	2.78	43	11698	2.713	ug/l #	86
20) Methylene Chloride	2.86	84	12118	2.460	ug/l	95
25) 2-Butanone	4.70	43	5301	1.780	ug/l #	83
29) Tetrahydrofuran	5.16	42	2279	1.216	ug/l #	71
31) Cyclohexane	5.65	56	7647	1.203	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	28842	4.527	ug/l #	50
38) Carbon Tetrachloride	5.66	117	40017	6.474	ug/l #	17
43) Isopropyl Acetate	6.46	43	25892	2.604	ug/l	96
48) Methyl methacrylate	7.68	41	12115	2.436	ug/l #	13
49) 1,4-Dioxane	7.74	88	100	7.757	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	127308	19.453	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	65401	9.559	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	15854	1.975	ug/l #	45
59) 2-Hexanone	9.54	43	196759	38.636	ug/l #	52
74) N-amyl acetate	10.69	43	18899	2.172	ug/l #	58
76) 1,2,3-Trichloropropane	11.13	75	144948	22.510	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	9747	0.530	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	144948	67.920	ug/l #	9

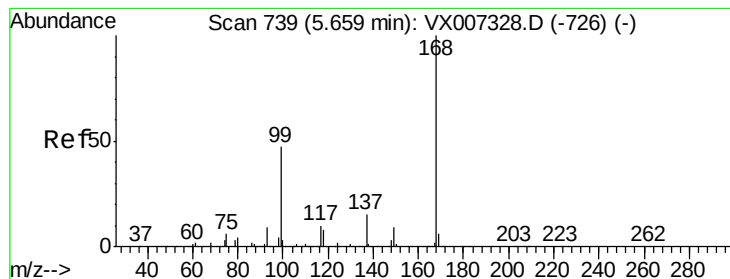
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

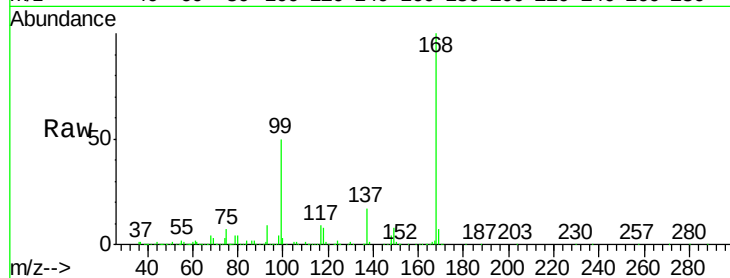
PB117250ZHE#11

Tot Ion:168 Resp: 430522

Ion Ratio Lower Upper

168 100

99 50.0 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

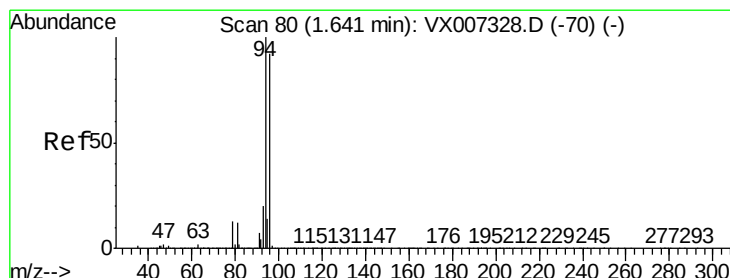
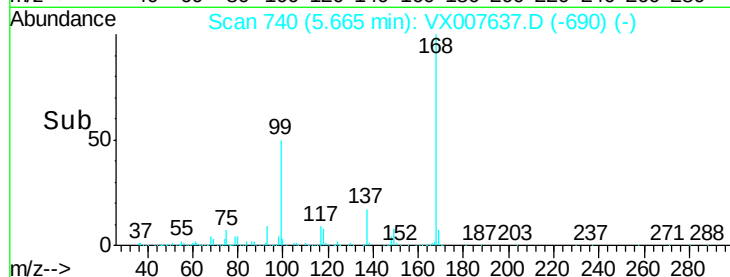
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007637.D

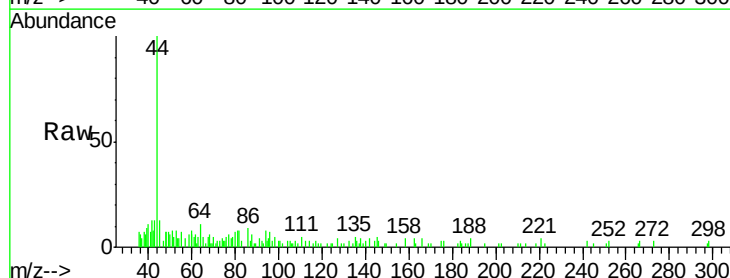
Acq: 21 Feb 2019 18:02

Tgt Ion: 94 Resp: 434

Ion Ratio Lower Upper

94 100

96 35.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

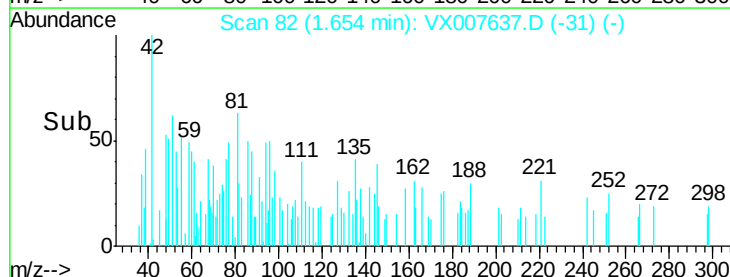
300

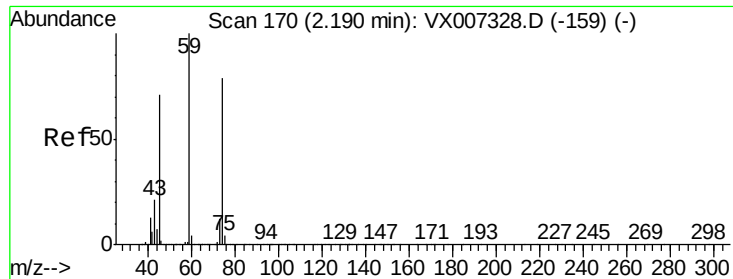
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.278 ug/l

RT: 2.20 min Scan# 172

Delta R.T. 0.01 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

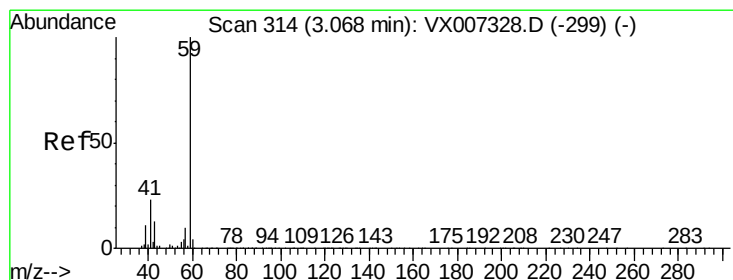
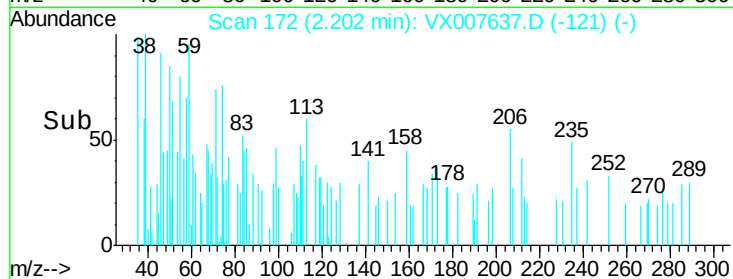
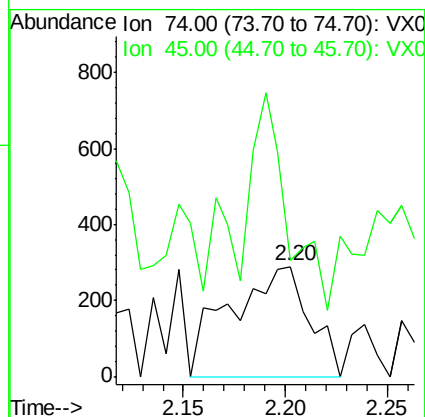
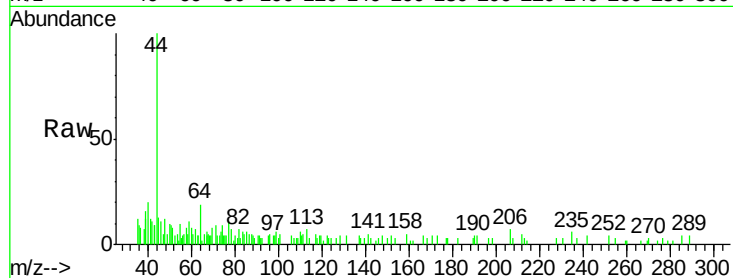
PB117250ZHE#11

Tot Ion: 74 Resp: 779

Ion Ratio Lower Upper

74 100

45 116.4 45.7 137.1



#11

Tert butyl alcohol

Concen: 1.455 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007637.D

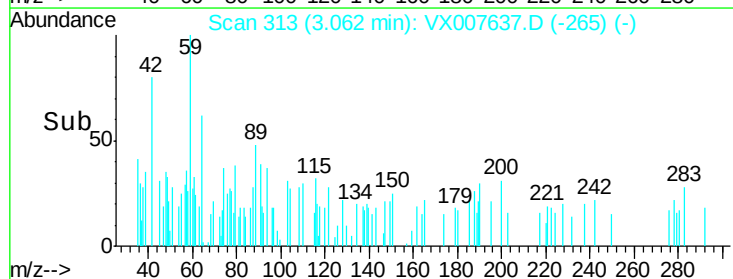
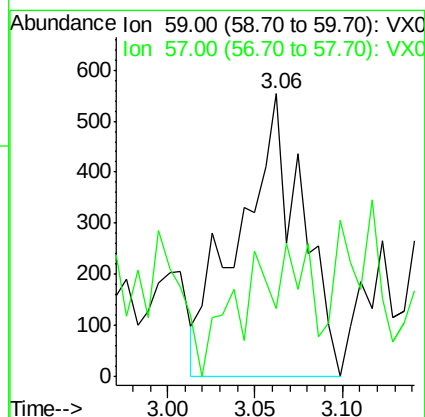
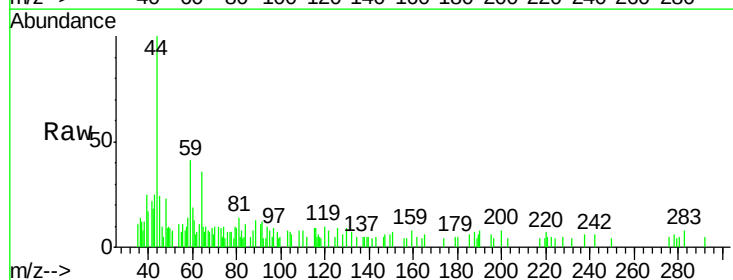
Acq: 21 Feb 2019 18:02

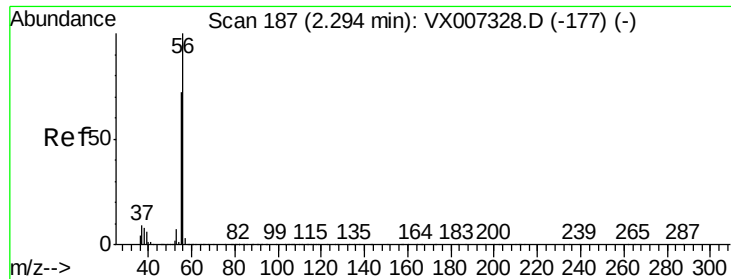
Tgt Ion: 59 Resp: 1376

Ion Ratio Lower Upper

59 100

57 27.8 8.1 12.1#





#13

Acrolein

Concen: 1.691 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

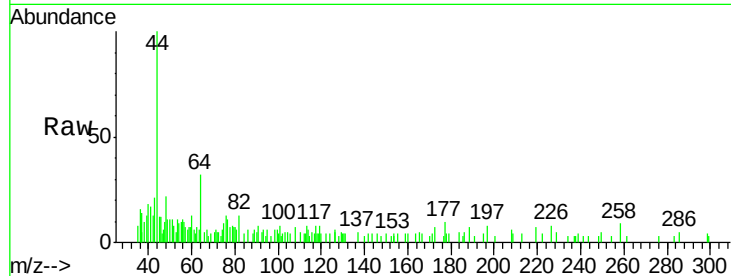
PB117250ZHE#11

Tot Ion: 56 Resp: 750

Ion Ratio Lower Upper

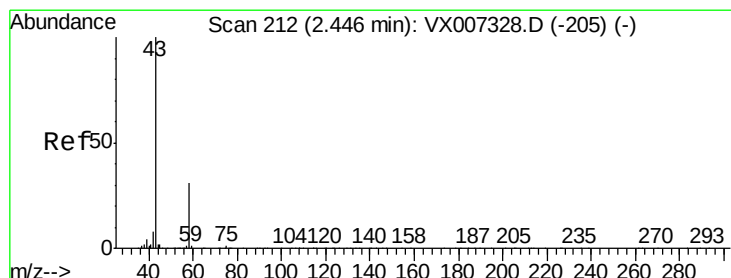
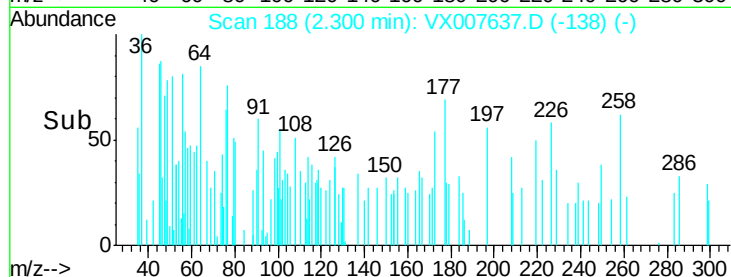
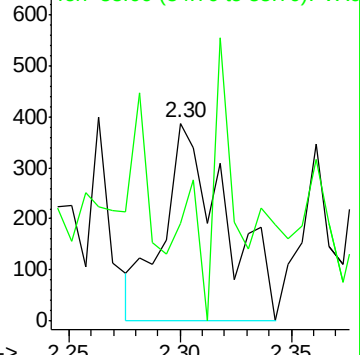
56 100

55 34.8 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 12.930 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007637.D

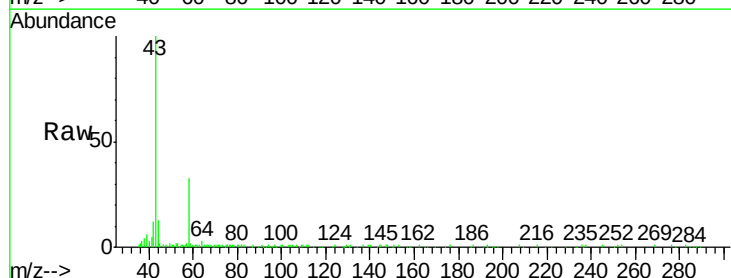
Acq: 21 Feb 2019 18:02

Tgt Ion: 43 Resp: 27066

Ion Ratio Lower Upper

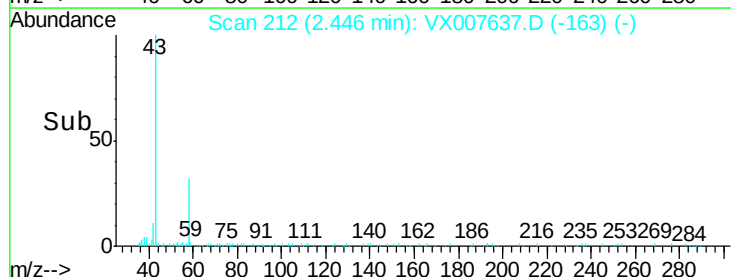
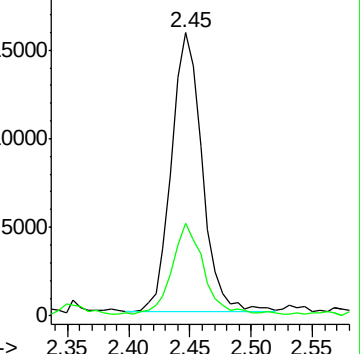
43 100

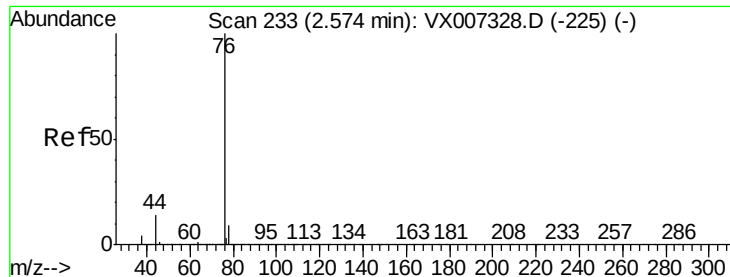
58 32.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 2.193 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

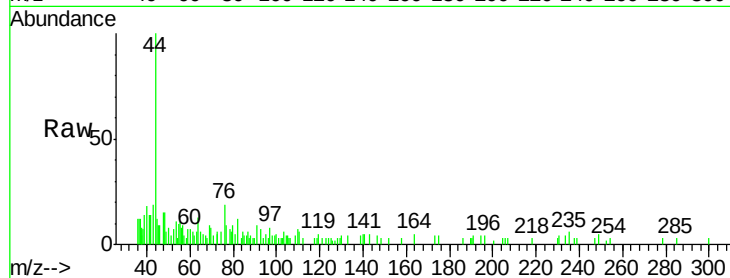
PB117250ZHE#11

Tot Ion: 76 Resp: 804

Ion Ratio Lower Upper

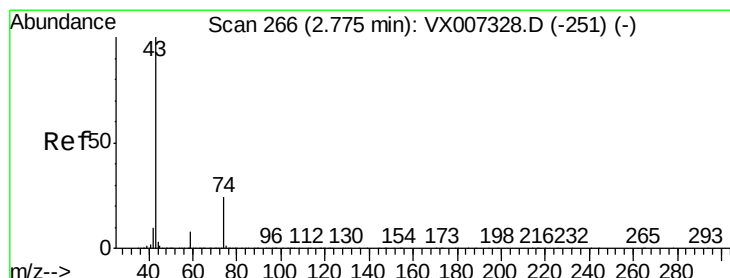
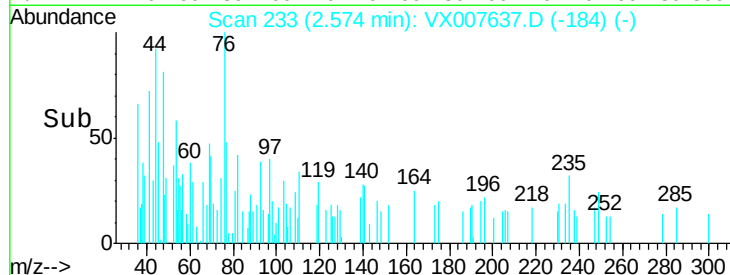
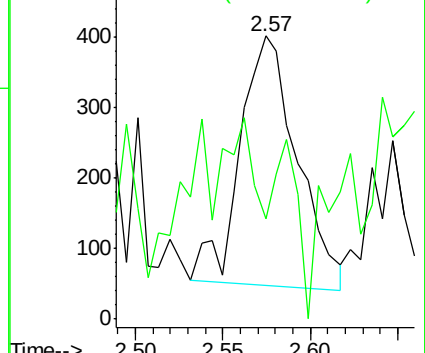
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 2.713 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007637.D

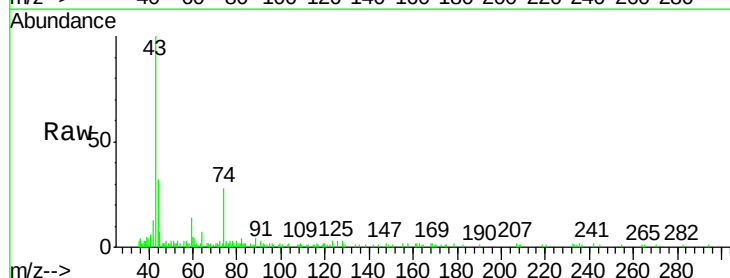
Acq: 21 Feb 2019 18:02

Tgt Ion: 43 Resp: 11698

Ion Ratio Lower Upper

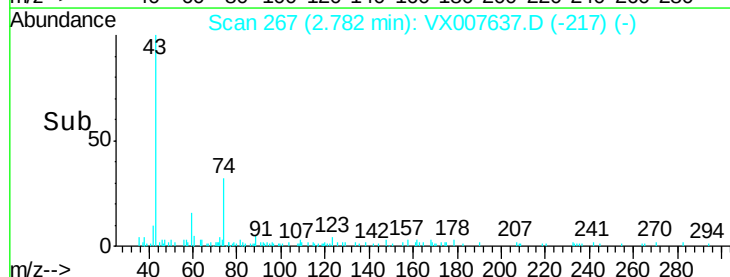
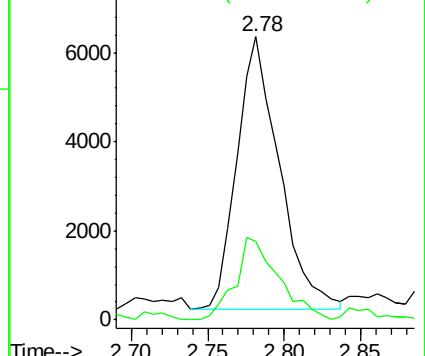
43 100

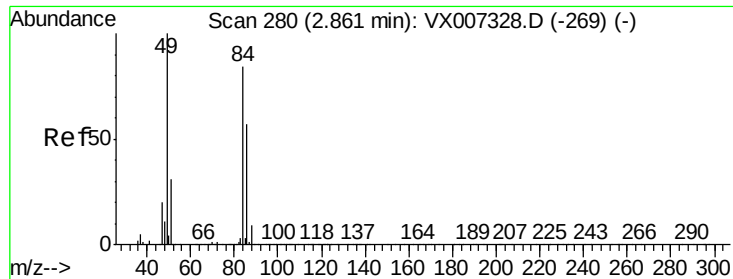
74 31.1 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

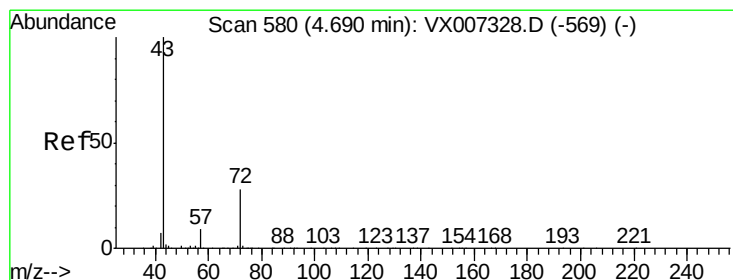
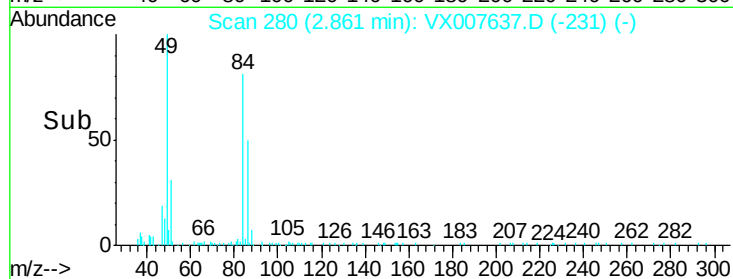
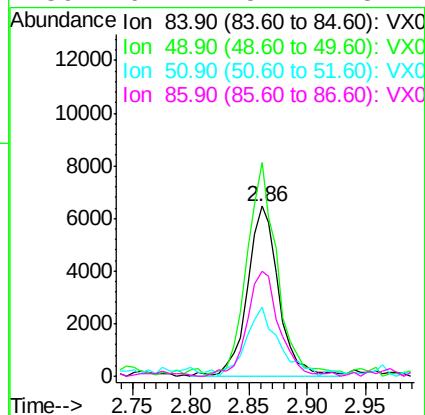
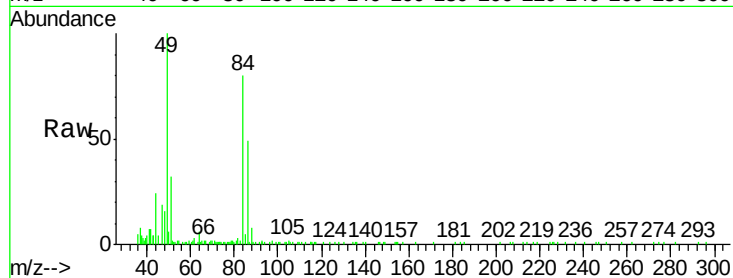




#20
Methylene Chloride
Concen: 2.460 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

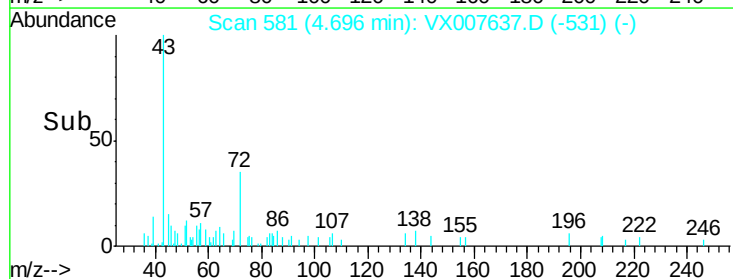
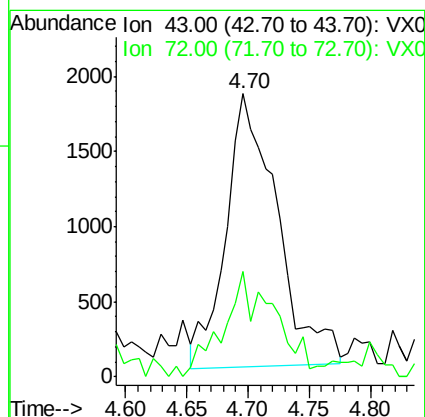
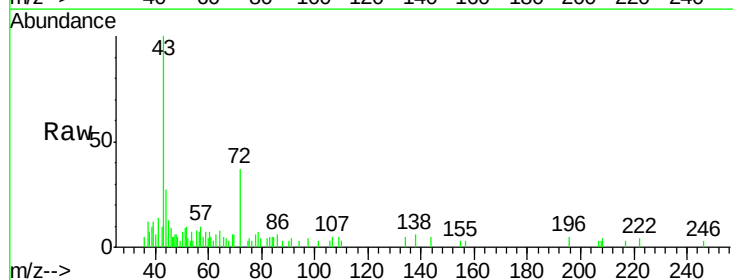
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#11

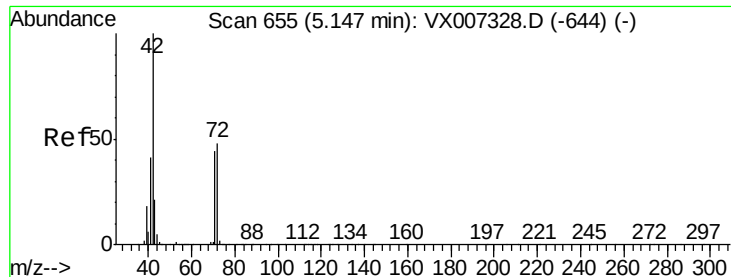
Tot Ion:	84	Resp:	12118
Ion	Ratio	Lower	Upper
84	100		
49	124.4	94.8	142.2
51	37.6	29.8	44.8
86	62.4	54.1	81.1



#25
2-Butanone
Concen: 1.780 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.01 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

Tgt Ion:	43	Resp:	5301
Ion	Ratio	Lower	Upper
43	100		
72	36.4	22.2	33.2#





#29

Tetrahydrofuran

Concen: 1.216 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#11

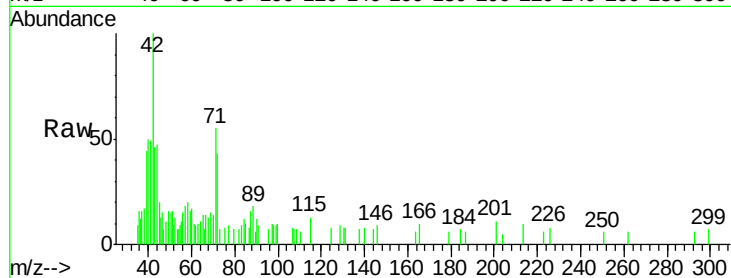
Tot Ion: 42 Resp: 2279

Ion Ratio Lower Upper

42 100

72 44.1 37.6 56.4

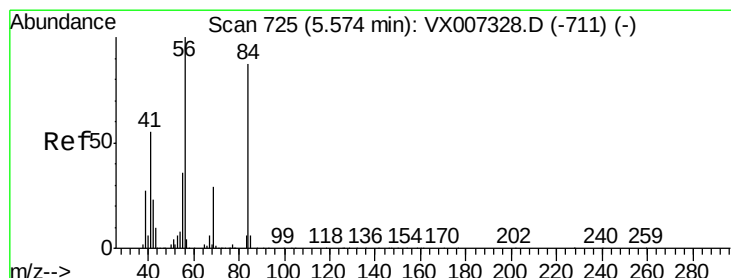
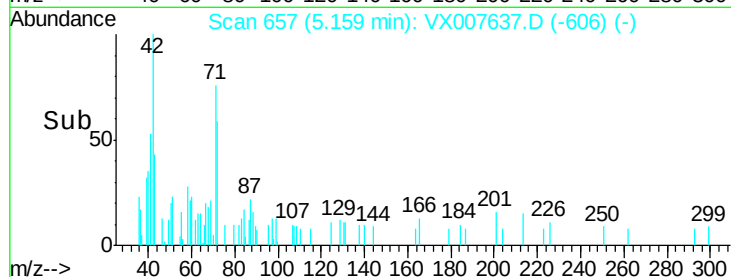
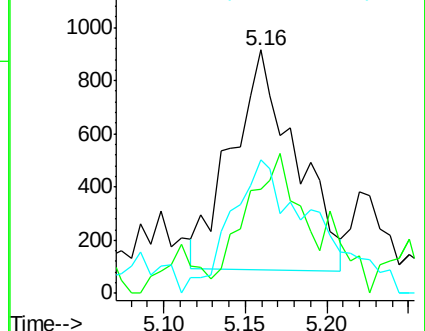
71 79.2 34.6 51.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.203 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

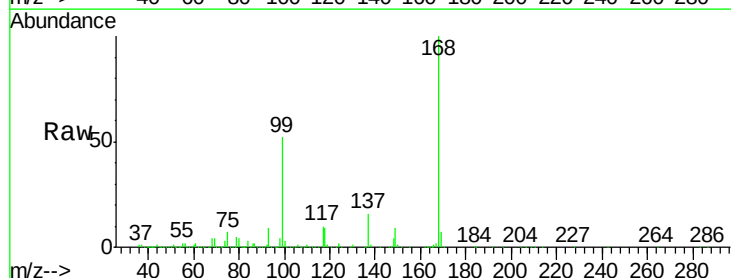
Tgt Ion: 56 Resp: 7647

Ion Ratio Lower Upper

56 100

69 172.6 23.0 34.6#

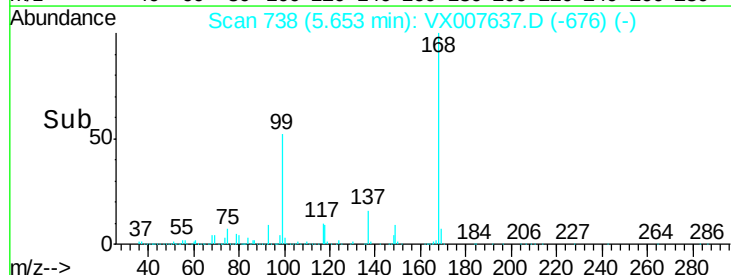
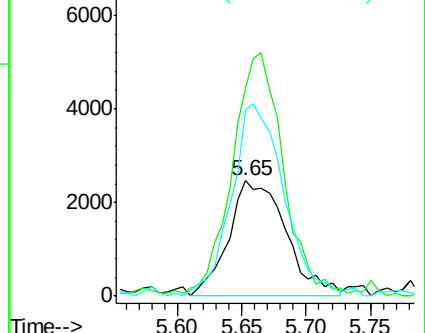
84 157.8 69.8 104.6#

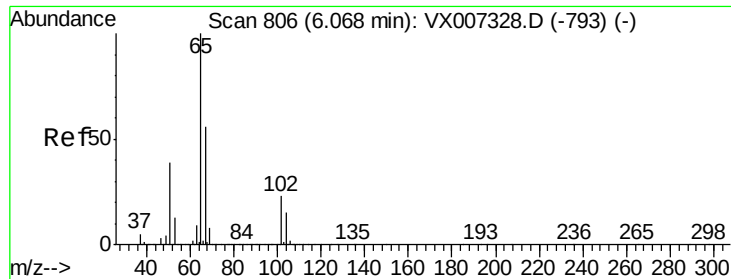


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

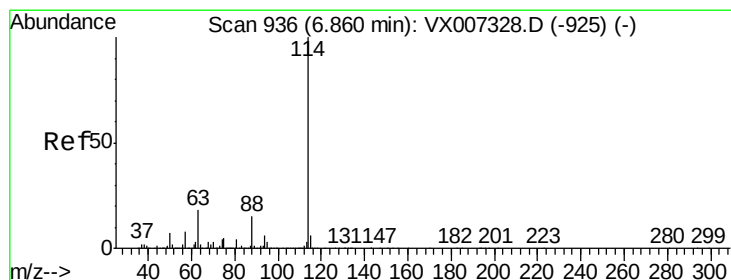
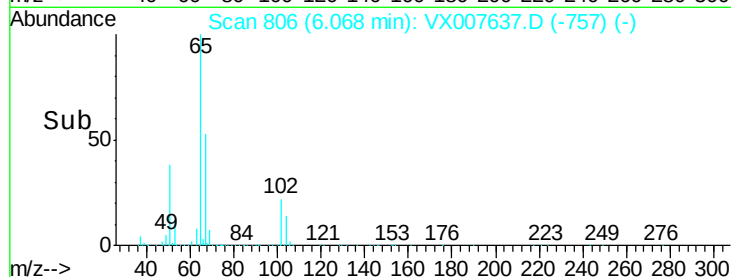
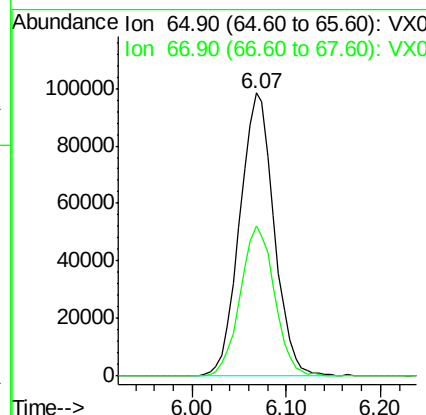
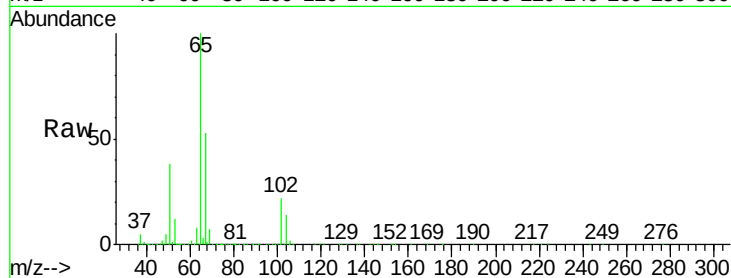




#33
 1,2-Dichloroethane-d4
 Concen: 54.772 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007637.D
 Acq: 21 Feb 2019 18:02

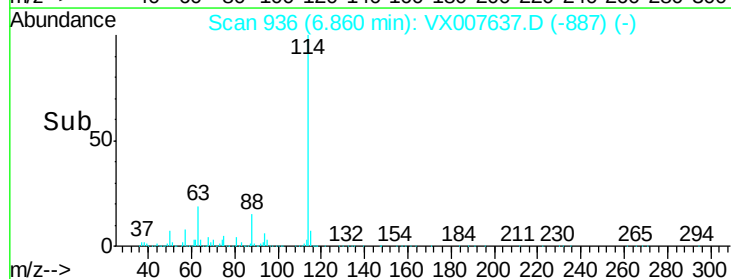
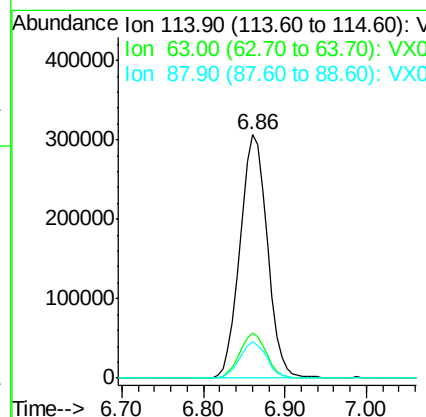
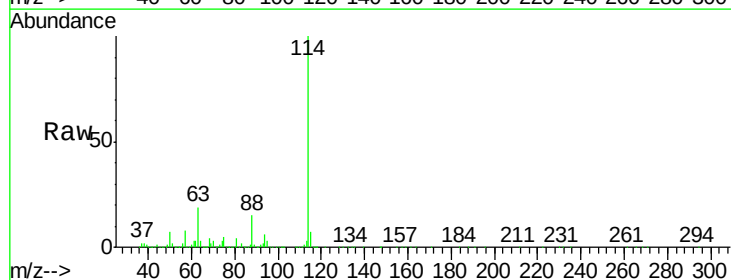
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#11

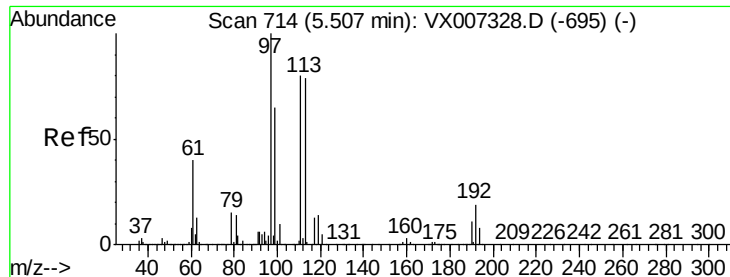
Tot Ion: 65 Resp: 250289
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007637.D
 Acq: 21 Feb 2019 18:02

Tgt Ion: 114 Resp: 710112
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.6
 88 14.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 50.807 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#11

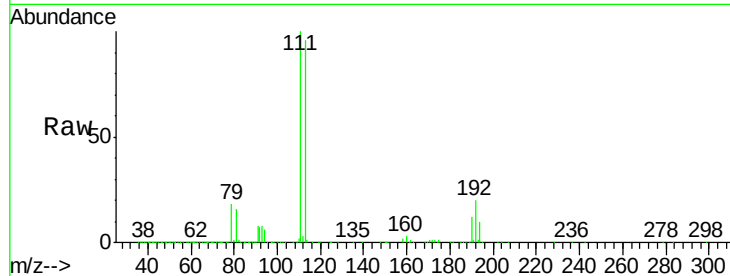
Tot Ion:113 Resp: 234751

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

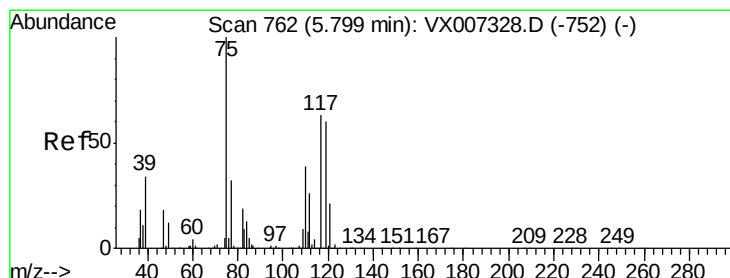
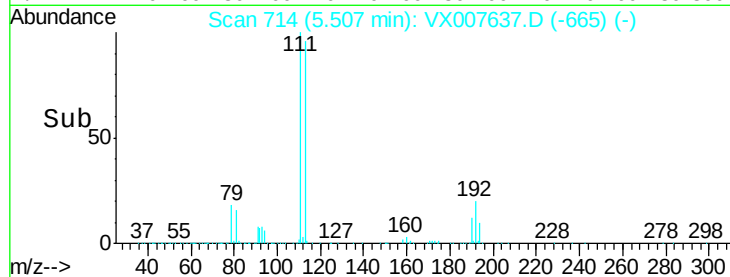
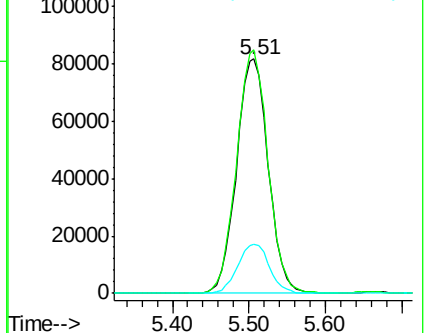
192 21.1 18.5 27.7



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: 4.527 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

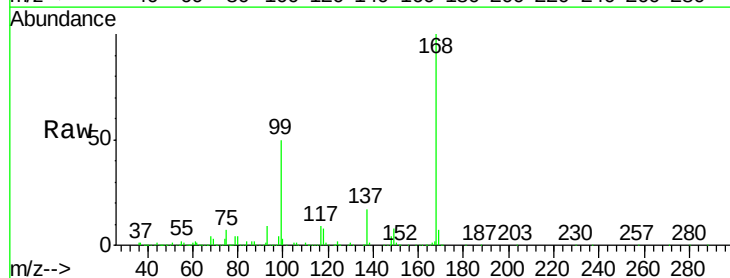
Tgt Ion: 75 Resp: 28842

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

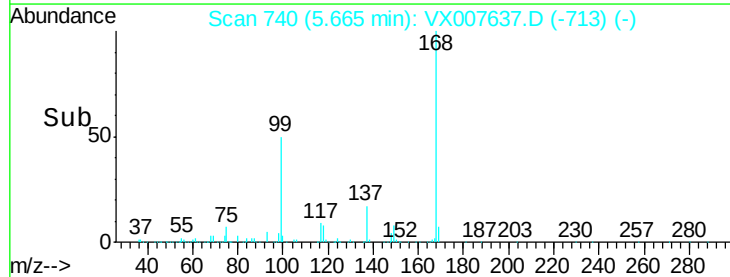
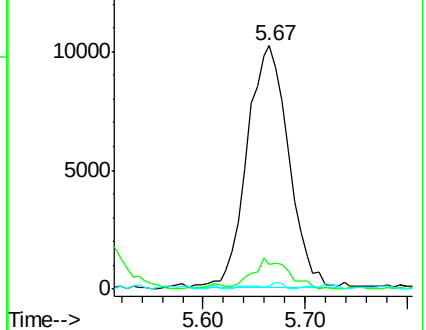
77 0.8 24.7 37.1#

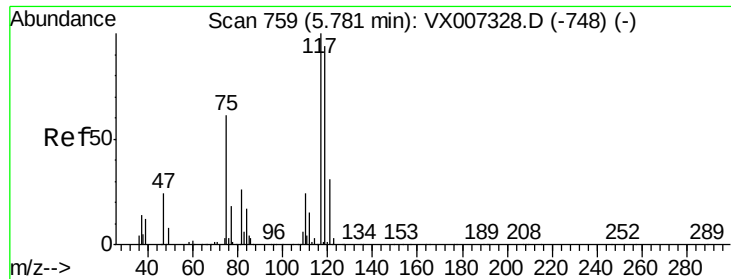


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.474 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

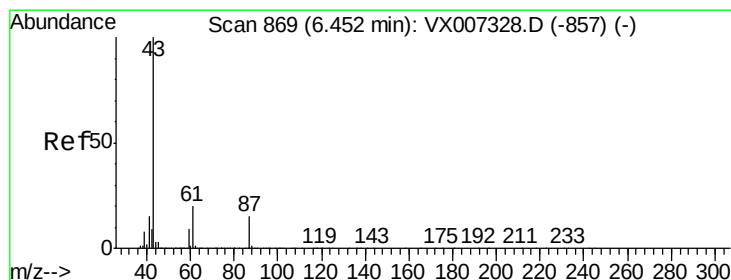
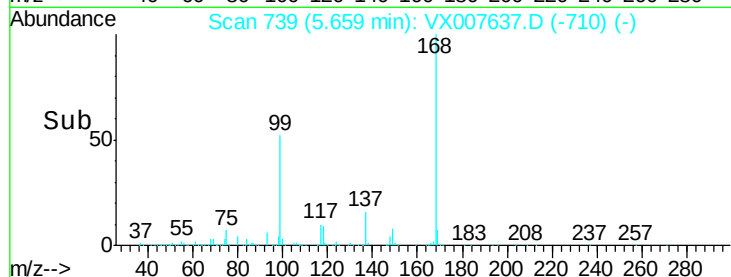
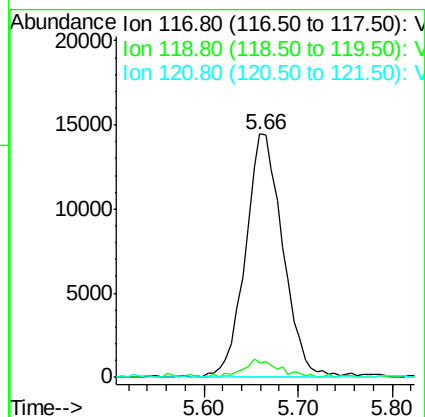
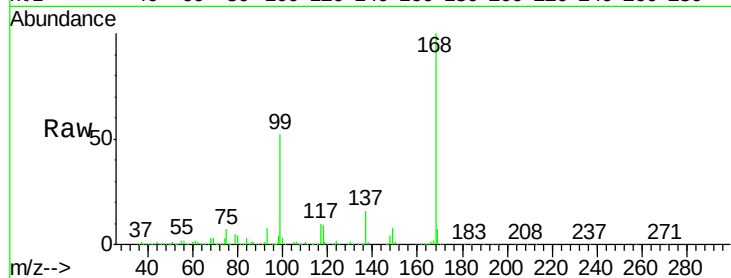
Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#11

Tot Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.3	112.9#
121	0.0	25.0	37.4#



#43

Isopropyl Acetate

Concen: 2.604 ug/l

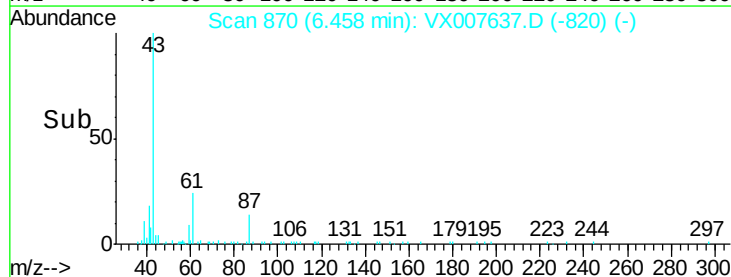
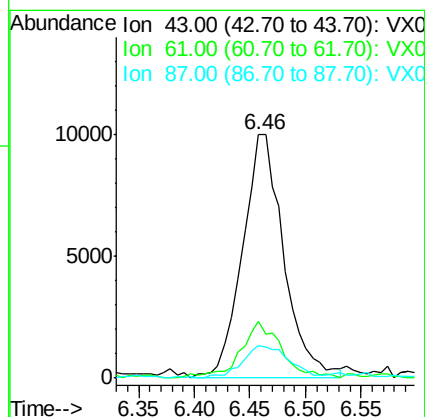
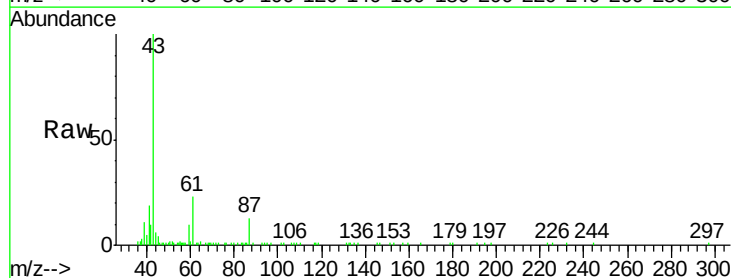
RT: 6.46 min Scan# 870

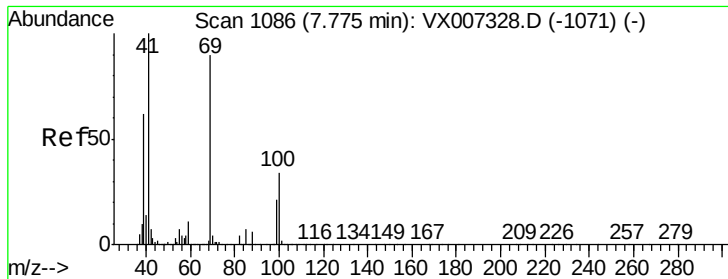
Delta R.T. 0.01 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	23.0	16.1	24.1
87	14.9	11.5	17.3

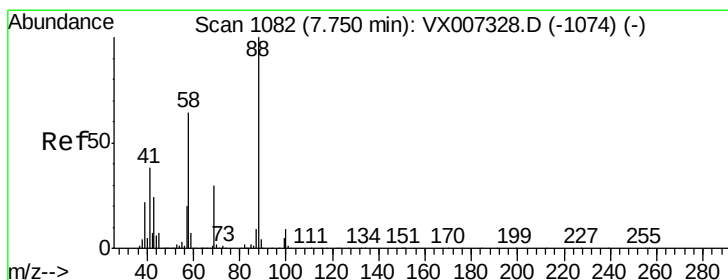
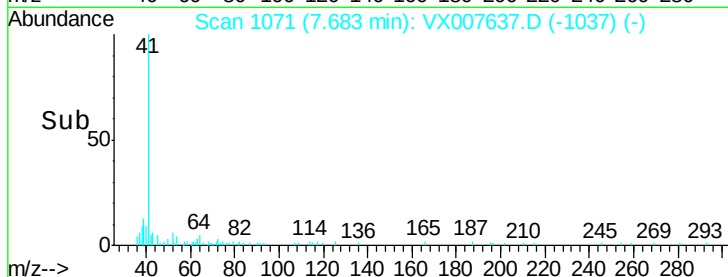
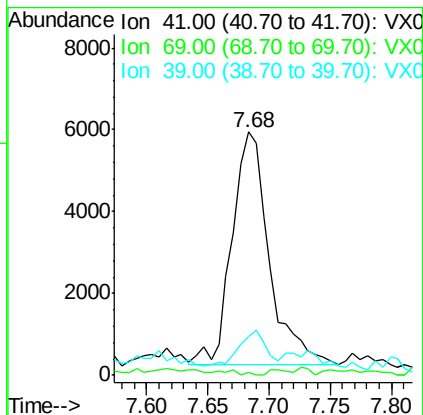
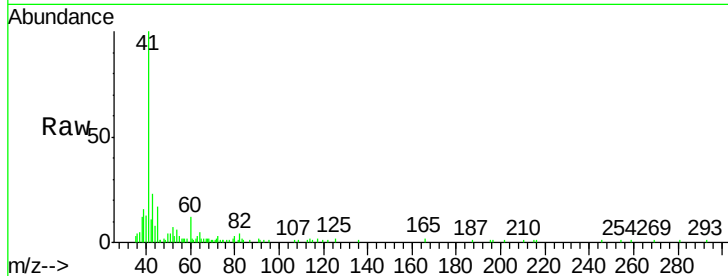




#48
Methvl methacrylate
Concen: 2.436 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

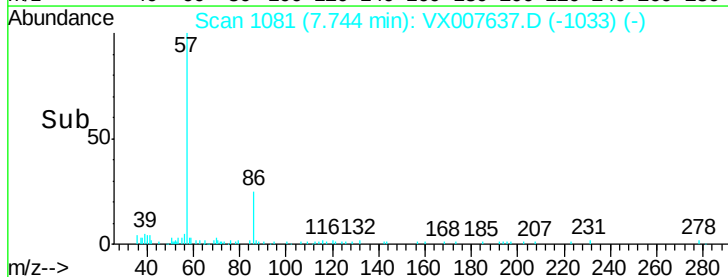
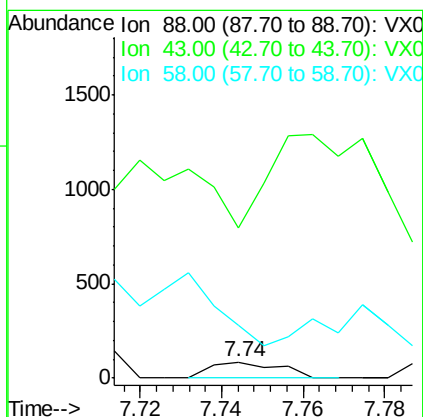
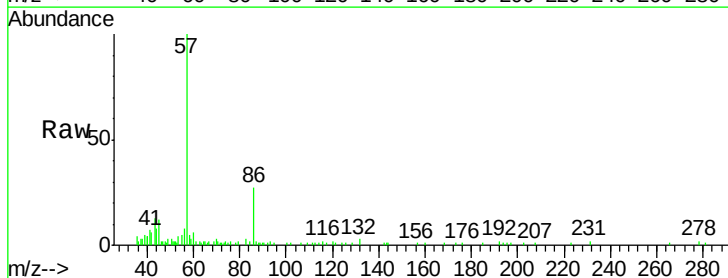
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#11

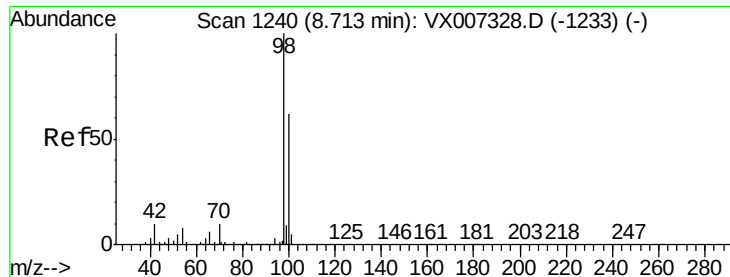
Tot Ion: 41 Resp: 12115
Ion Ratio Lower Upper
41 100
69 1.2 70.2 105.4#
39 0.0 47.4 71.0#



#49
1,4-Dioxane
Concen: 7.757 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

Tgt Ion: 88 Resp: 100
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 1149.0 53.0 79.4#





#50

Toluene-d8

Concen: 51.484 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

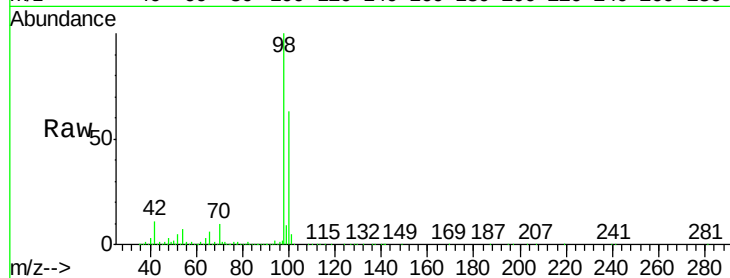
PB117250ZHE#11

Tot Ion: 98 Resp: 882569

Ion Ratio Lower Upper

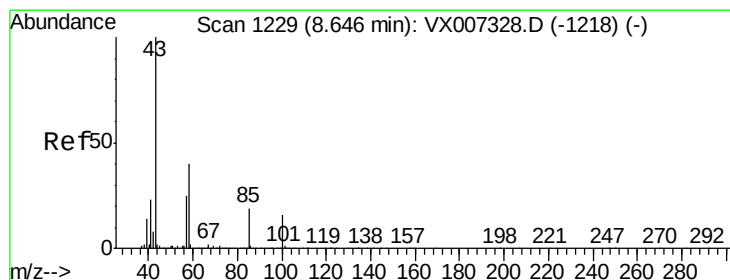
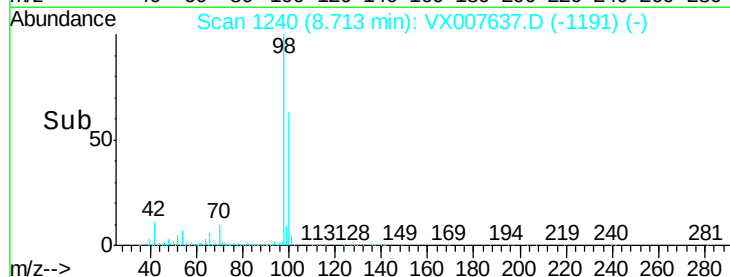
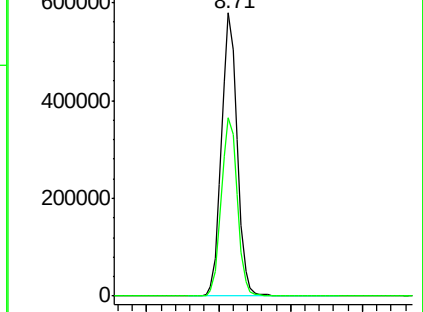
98 100

100 64.3 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: 19.453 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007637.D

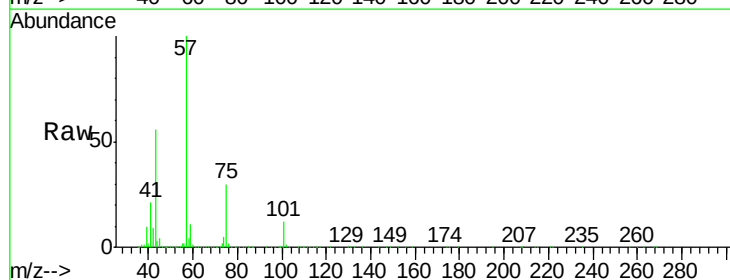
Acq: 21 Feb 2019 18:02

Tgt Ion: 43 Resp: 127308

Ion Ratio Lower Upper

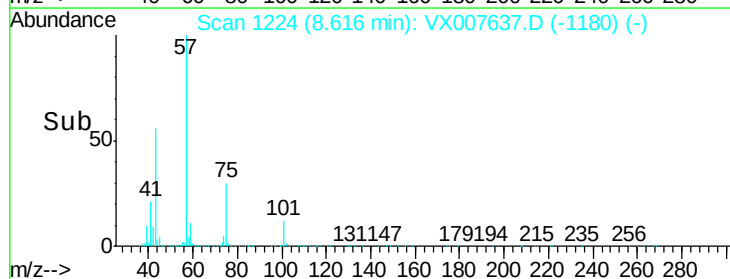
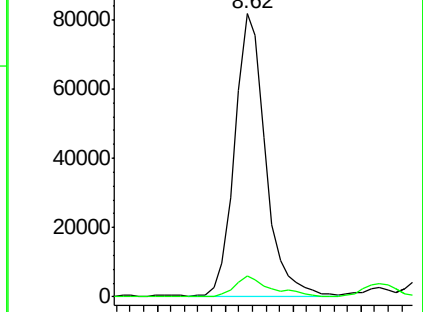
43 100

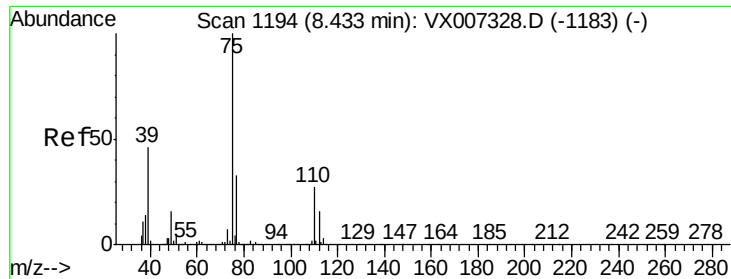
58 9.1 31.2 46.8#



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: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#11

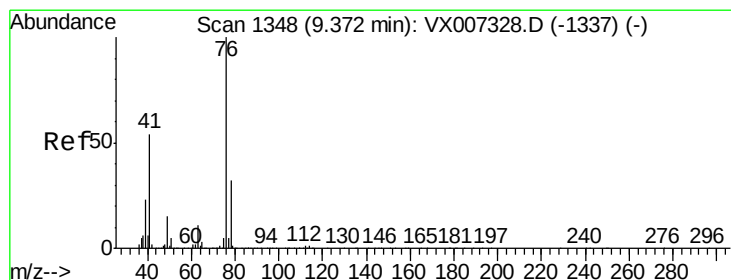
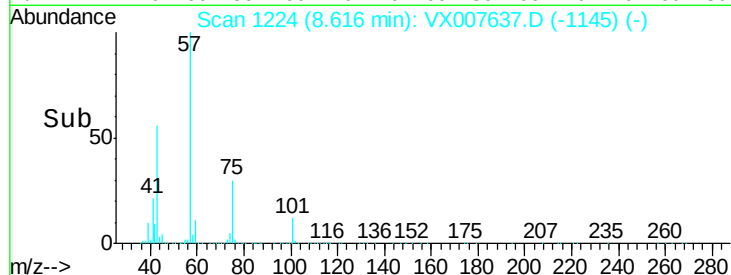
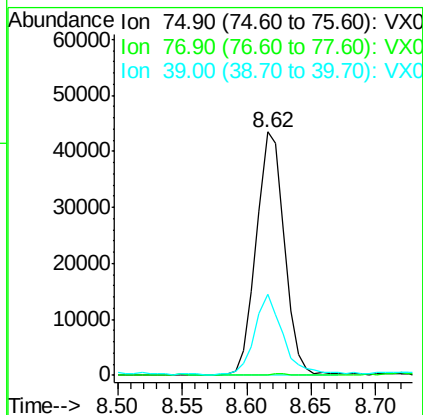
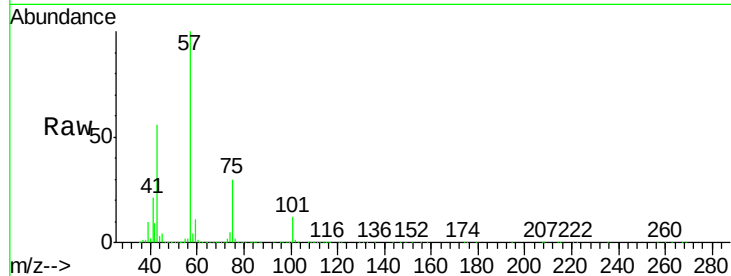
Tot Ion: 75 Resp: 65401

Ion Ratio Lower Upper

75 100

77 0.1 26.2 39.4#

39 32.8 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 1.975 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007637.D

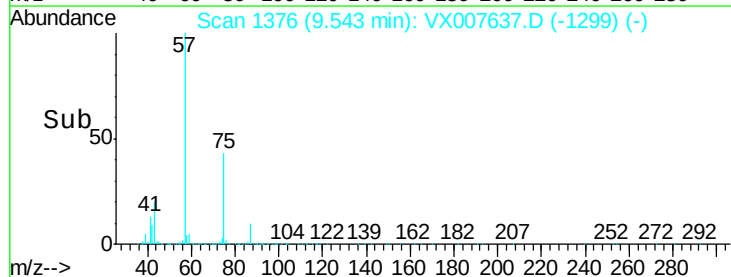
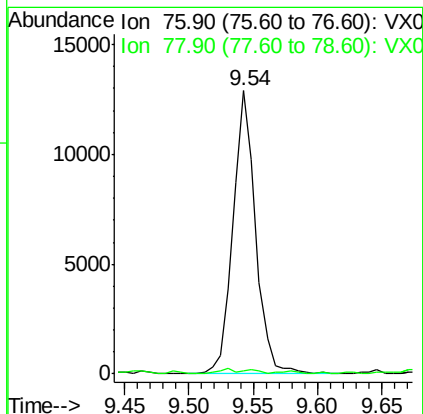
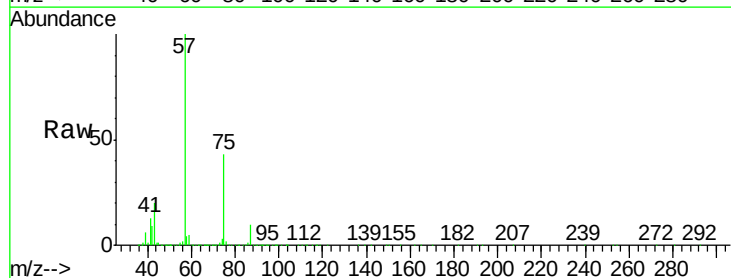
Acq: 21 Feb 2019 18:02

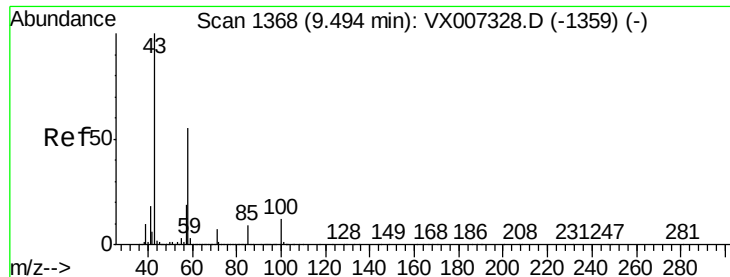
Tgt Ion: 76 Resp: 15854

Ion Ratio Lower Upper

76 100

78 1.3 25.8 38.8#

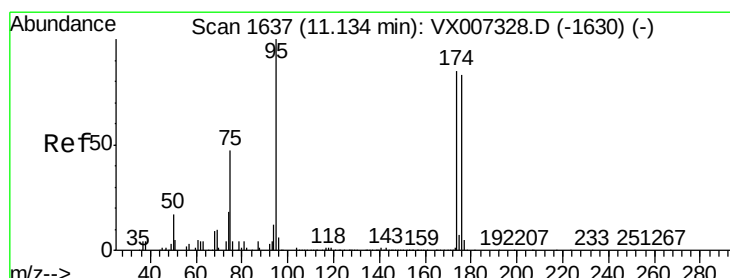
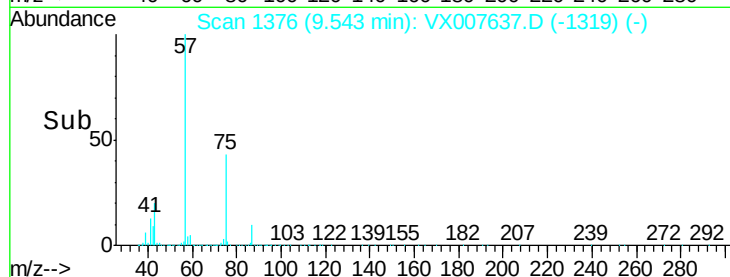
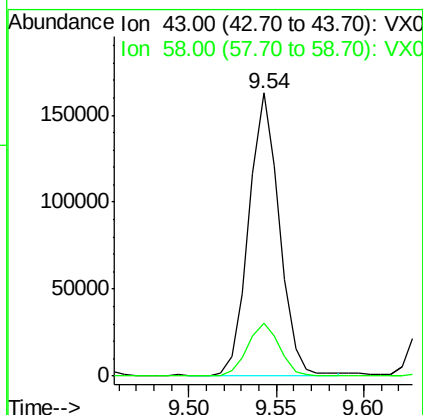
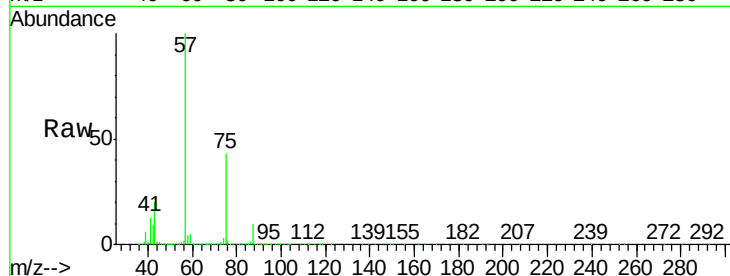




#59
2-Hexanone
Concen: 38.636 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

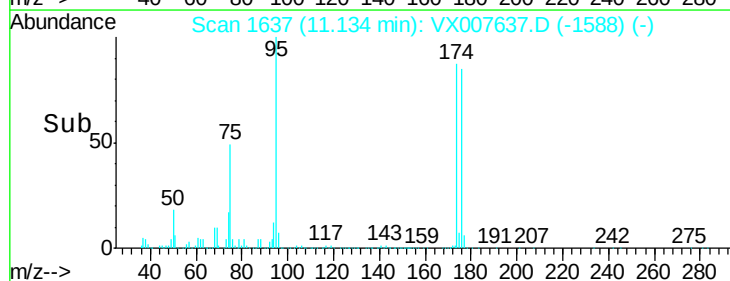
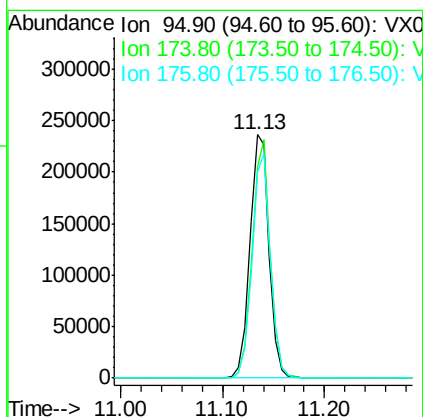
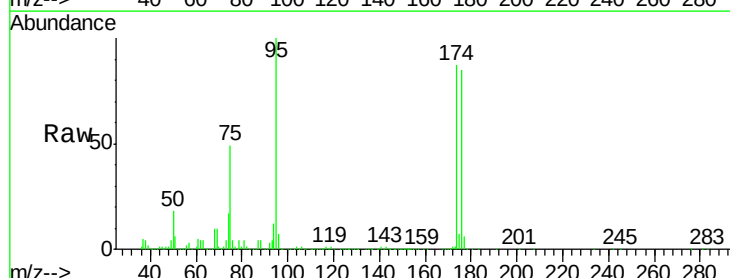
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#11

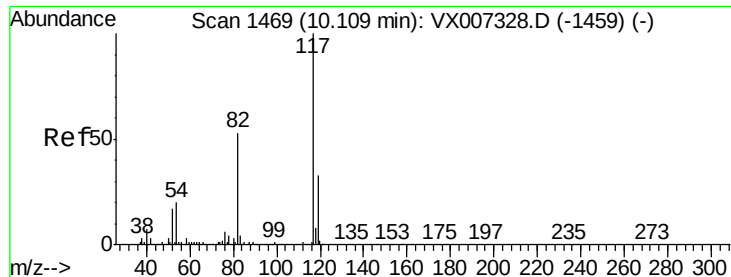
Tot Ion: 43 Resp: 196759
Ion Ratio Lower Upper
43 100
58 19.5 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 49.371 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

Tgt Ion: 95 Resp: 309006
Ion Ratio Lower Upper
95 100
174 93.2 0.0 189.2
176 89.1 0.0 186.2

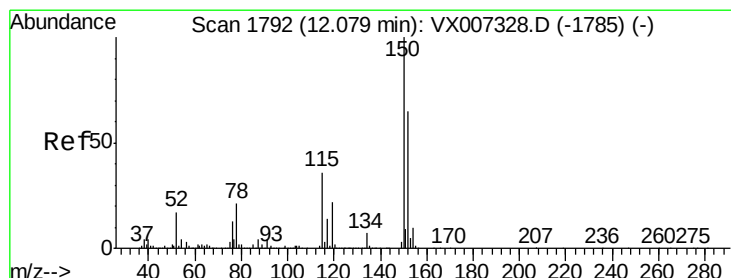
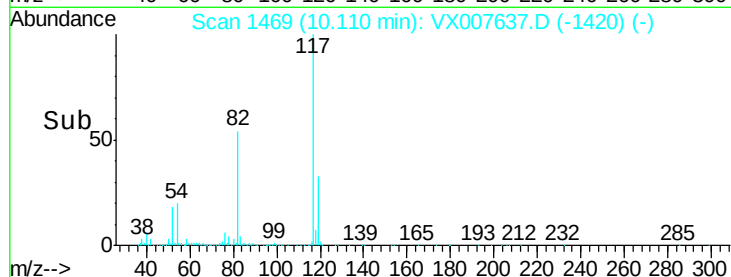
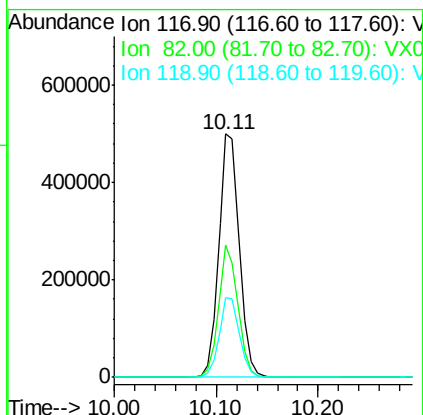
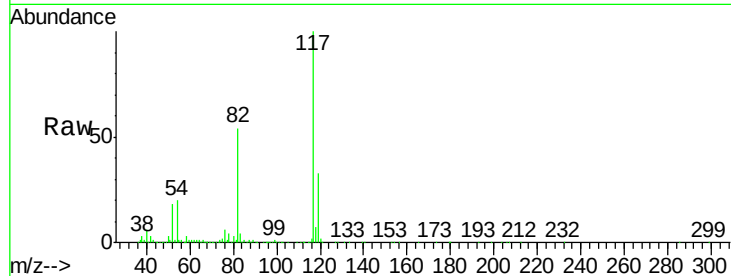




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

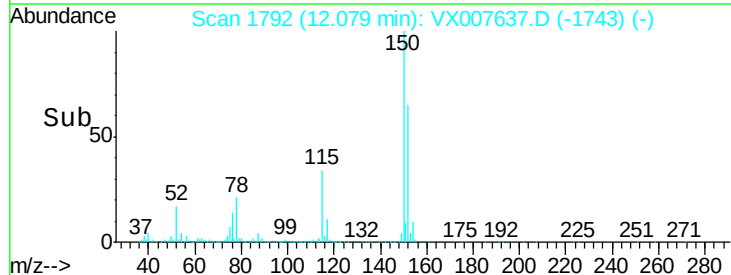
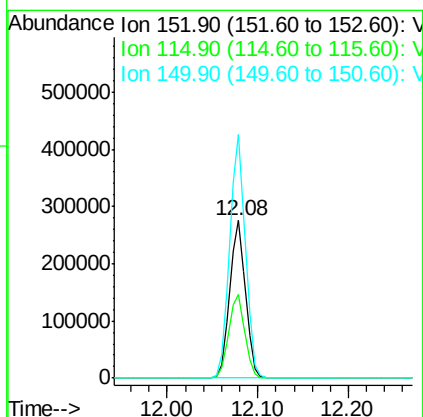
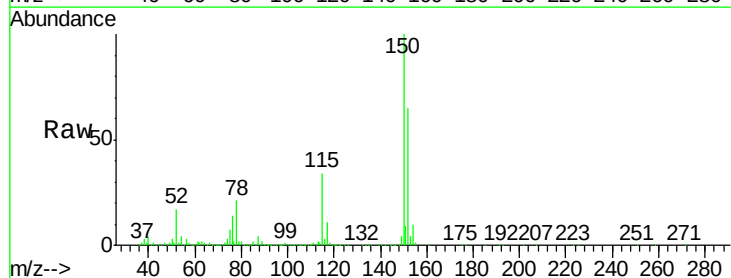
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#11

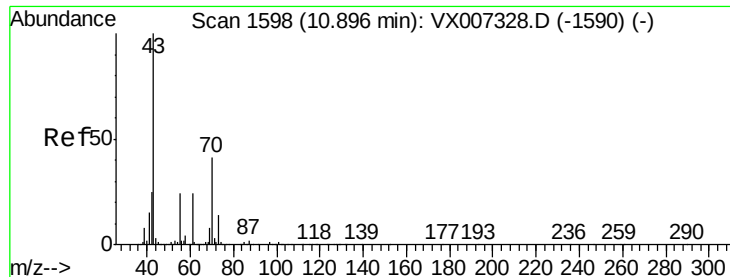
Tot Ion:117 Resp: 703391
Ion Ratio Lower Upper
117 100
82 54.3 42.1 63.1
119 32.7 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

Tgt Ion:152 Resp: 331053
Ion Ratio Lower Upper
152 100
115 54.4 38.0 114.0
150 154.5 0.0 346.4

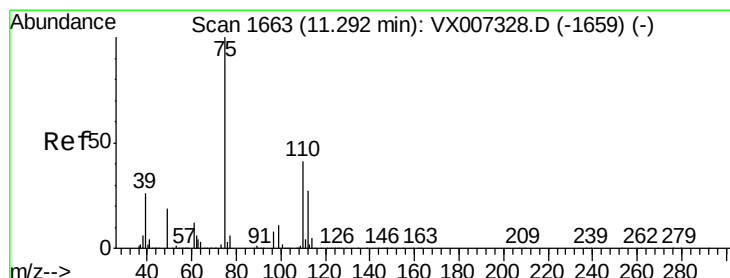
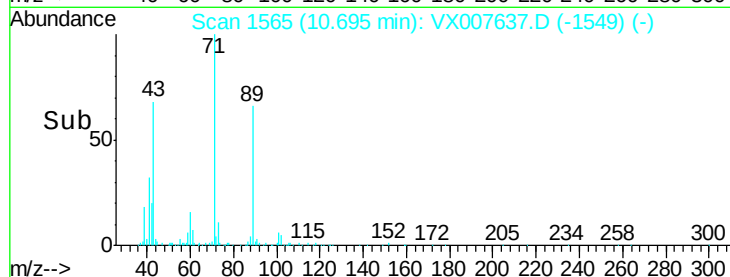
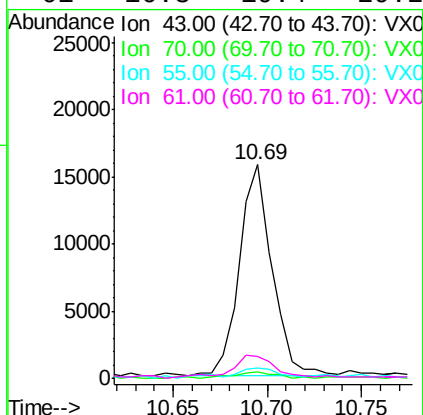
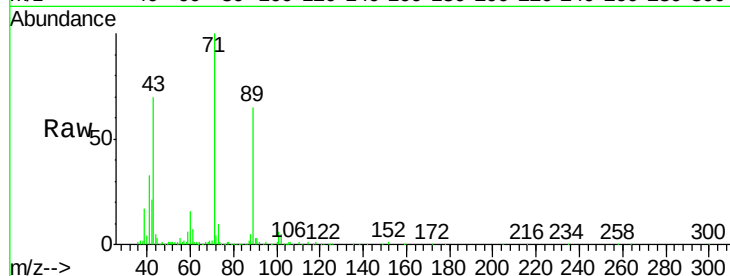




#74
N-amvl acetate
Concen: 2.172 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

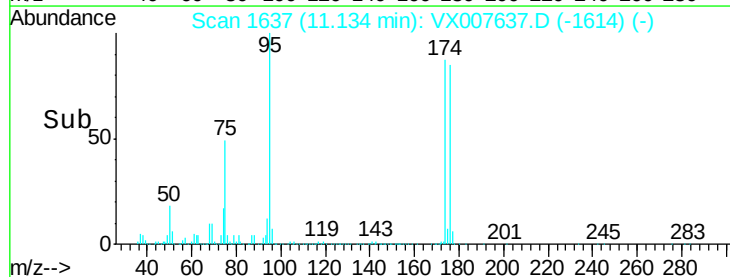
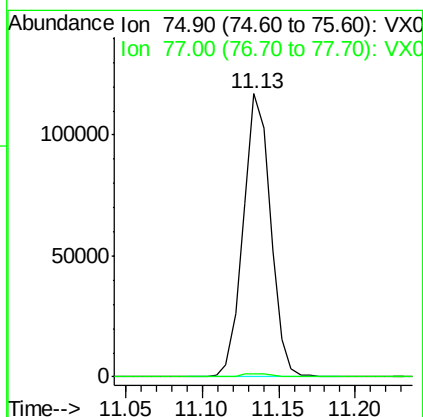
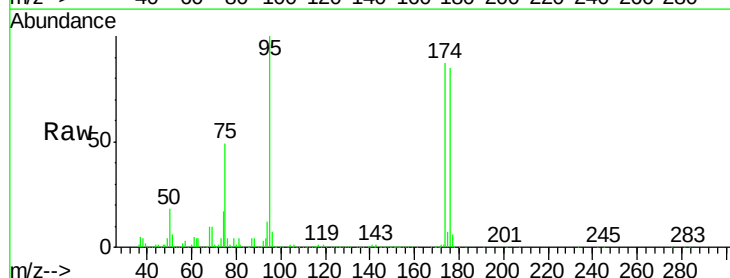
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#11

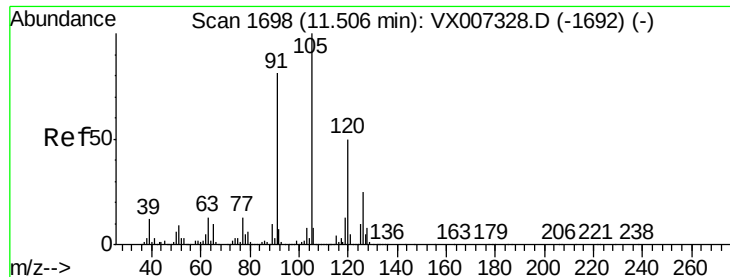
Tot Ion	Ratio	Lower	Upper
43	100		
70	4.0	33.8	50.6#
55	5.8	19.5	29.3#
61	16.3	19.4	29.2#



#76
1,2,3-Trichloropropane
Concen: 22.510 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007637.D
Acq: 21 Feb 2019 18:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	23.0	69.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.530 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

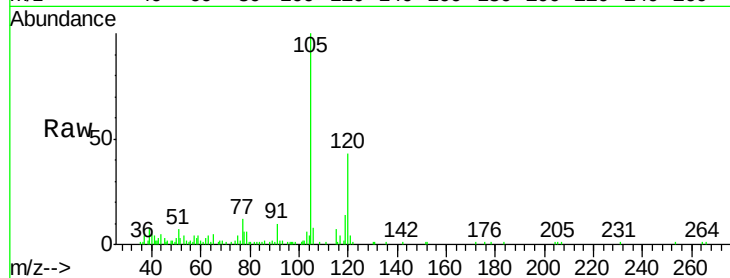
PB117250ZHE#11

Tot Ion:105 Resp: 9747

Ion Ratio Lower Upper

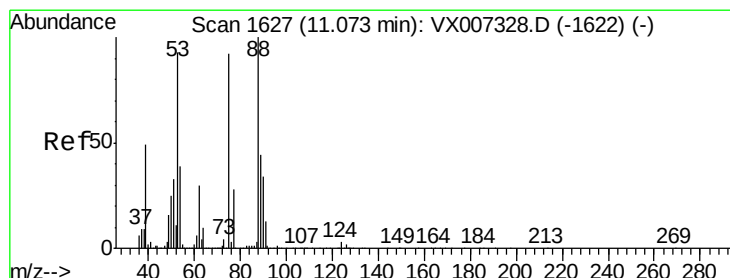
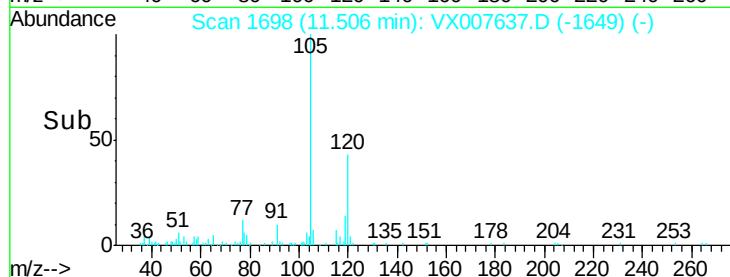
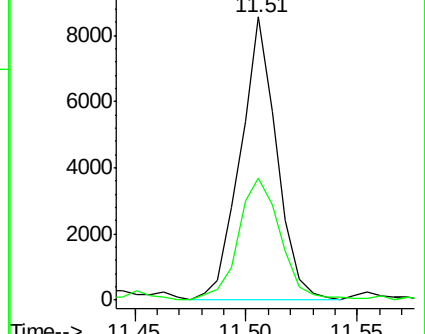
105 100

120 50.0 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.920 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007637.D

Acq: 21 Feb 2019 18:02

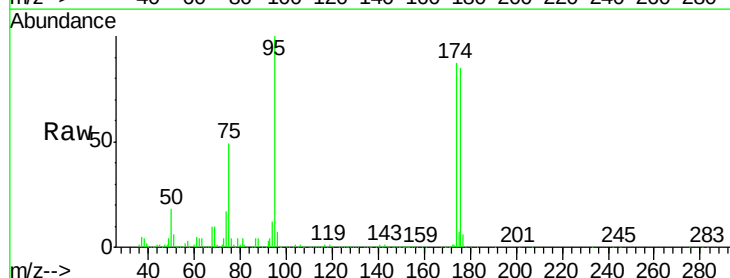
Tgt Ion: 75 Resp: 144948

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.1 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

