

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010320\
 Data File : VX014413.D
 Acq On : 03 Jan 2020 20:07
 Operator : JC/SP
 Sample : PB125870ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125870ZHE#02

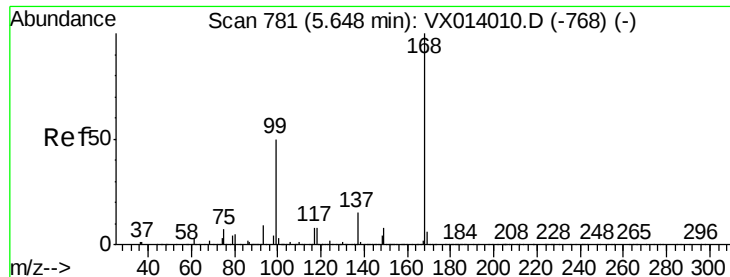
Quant Time: Jan 06 02:36:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	569560	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	866160	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	781248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	357943	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	303760	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
35) Dibromofluoromethane	5.49	113	254813	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	
50) Toluene-d8	8.71	98	1029209	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.13	95	356838	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1143	0.223	ug/l	84
10) Methyl Iodide	2.51	142	253	2.655	ug/l #	43
11) Tert butyl alcohol	3.01	59	5441	3.901	ug/l	100
13) Acrolein	2.29	56	216	0.271	ug/l #	1
16) Acetone	2.44	43	23398	5.583	ug/l	97
17) Carbon Disulfide	2.56	76	801	0.802	ug/l #	64
18) Methyl Acetate	2.76	43	9364	1.128	ug/l	92
20) Methylene Chloride	2.85	84	15051	2.281	ug/l	95
25) 2-Butanone	4.68	43	4833	0.935	ug/l	99
28) Bromochloromethane	4.99	49	962	0.682	ug/l #	9
29) Tetrahydrofuran	4.89	42	698	0.242	ug/l	91
36) 1,1-Dichloropropene	5.65	75	37200	4.681	ug/l #	51
38) Carbon Tetrachloride	5.65	117	49275	6.806	ug/l #	16
43) Isopropyl Acetate	6.43	43	160161	11.027	ug/l	99
48) Methyl methacrylate	7.67	41	9462	1.330	ug/l #	14
49) 1,4-Dioxane	7.75	88	227	1.568	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	143544	15.737	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	69759	7.317	ug/l #	57
59) 2-Hexanone	9.54	43	147726	20.118	ug/l #	50
74) N-amyl acetate	10.82	43	6117	0.518	ug/l #	59
76) 1,2,3-Trichloropropane	11.13	75	172977	22.260	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	172977	62.828	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

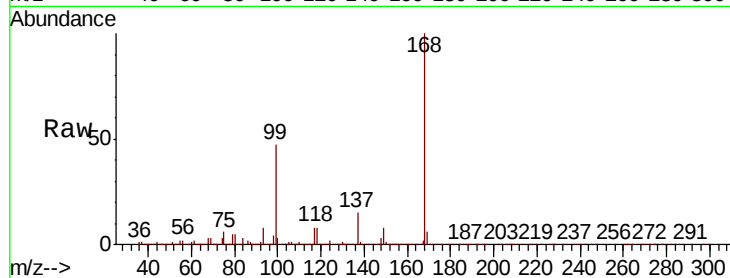
PB125870ZHE#02

Tot Ion:168 Resp: 569560

Ion Ratio Lower Upper

168 100

99 46.8 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

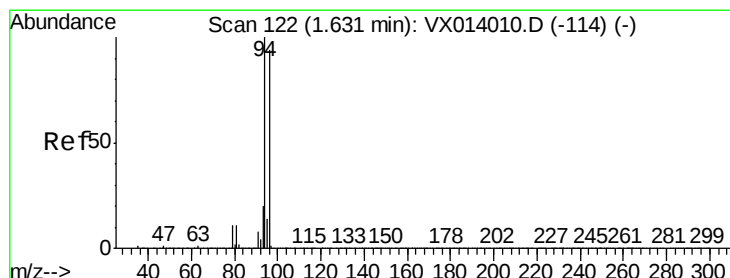
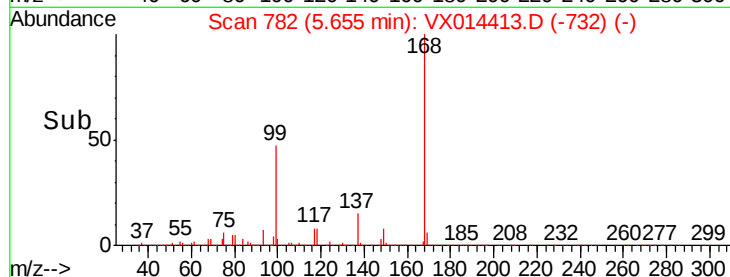
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.223 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014413.D

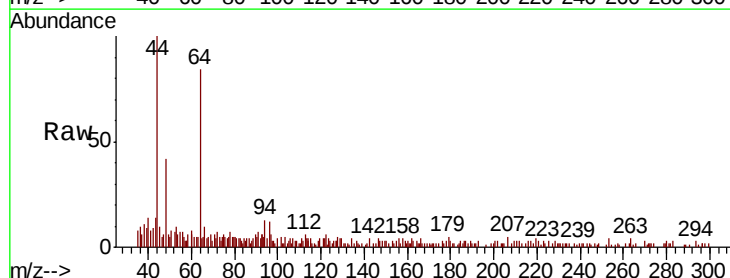
Acq: 03 Jan 2020 20:07

Tgt Ion: 94 Resp: 1143

Ion Ratio Lower Upper

94 100

96 78.6 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

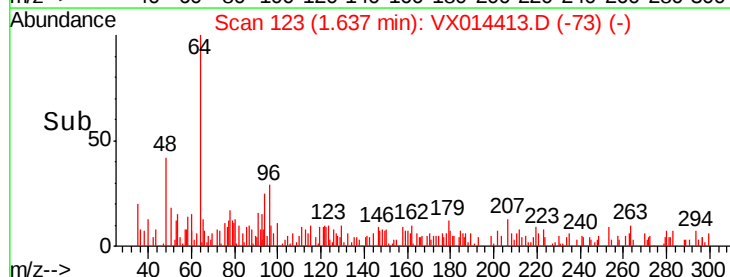
600

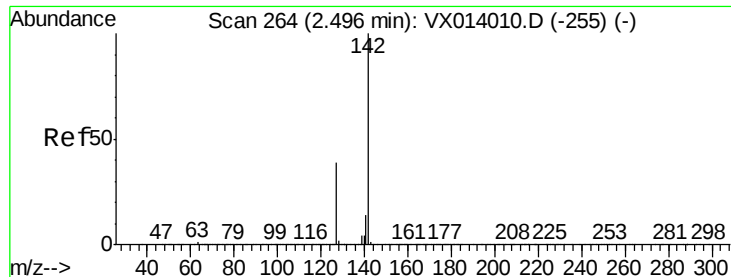
400

200

0

Time-->

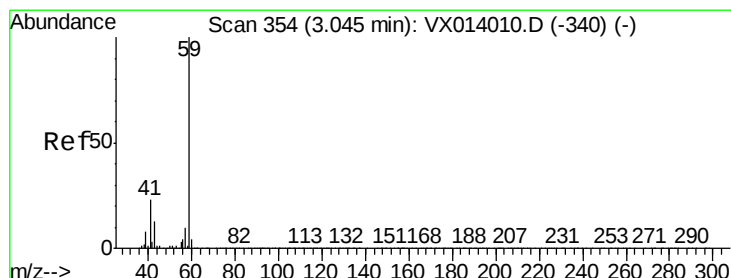
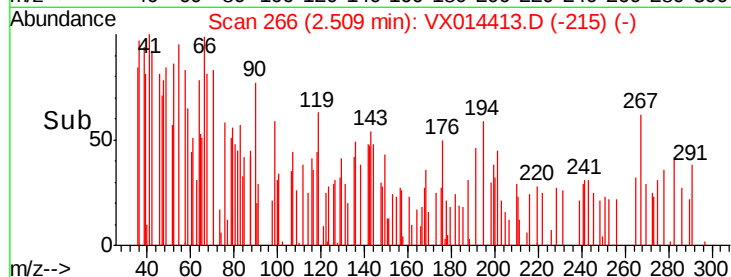
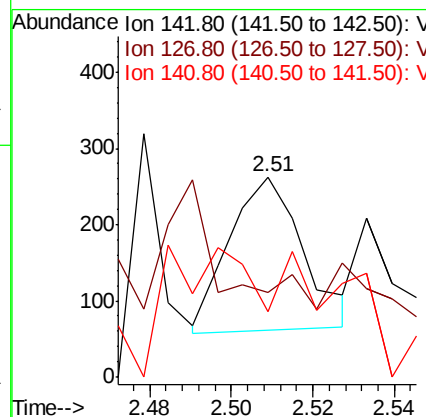
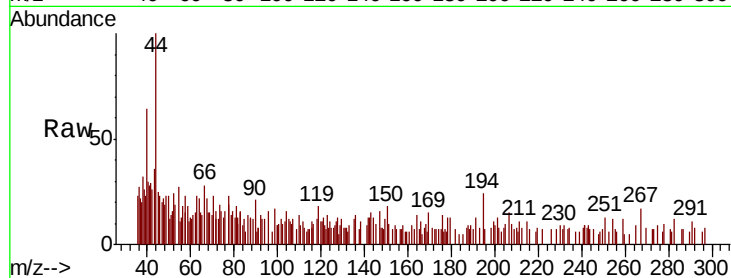




#10
Methvl Iodide
Concen: 2.655 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

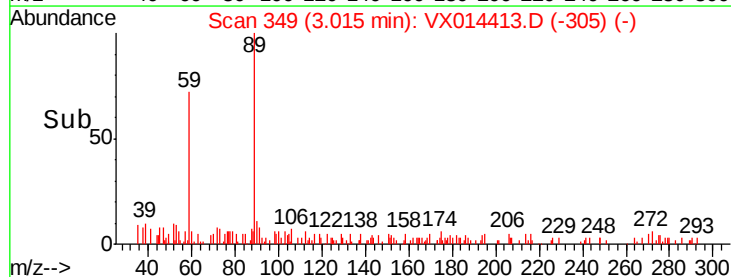
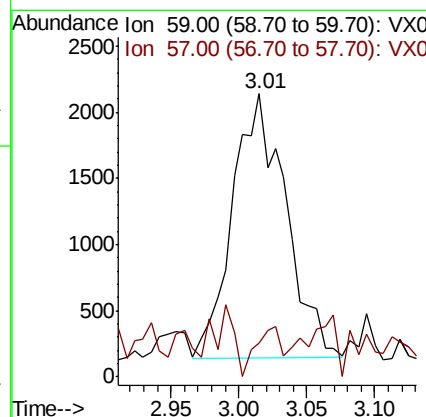
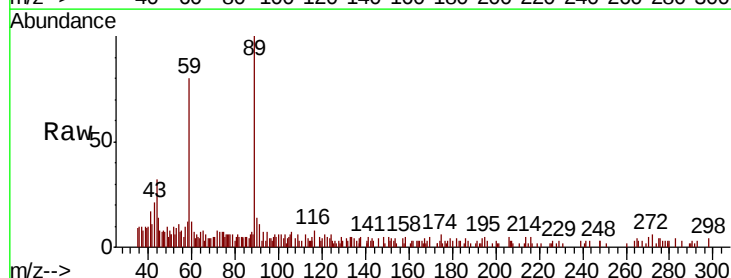
Instrument :
MSVOA_X
ClientSampleId :
PB125870ZHE#02

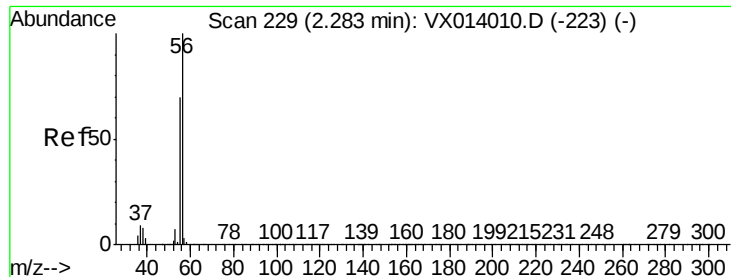
Tot Ion:142 Resp: 253
Ion Ratio Lower Upper
142 100
127 0.0 31.6 47.4#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 3.901 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Tgt Ion: 59 Resp: 5441
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

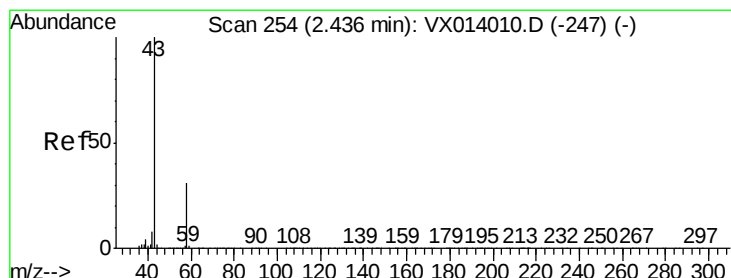
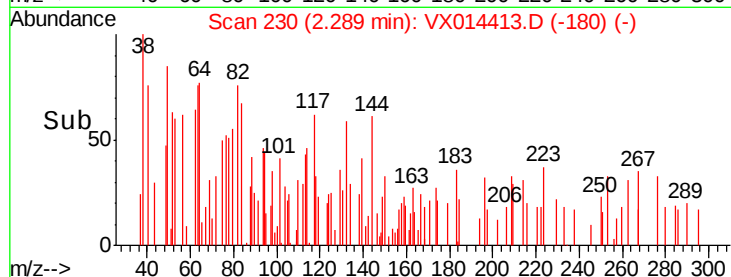
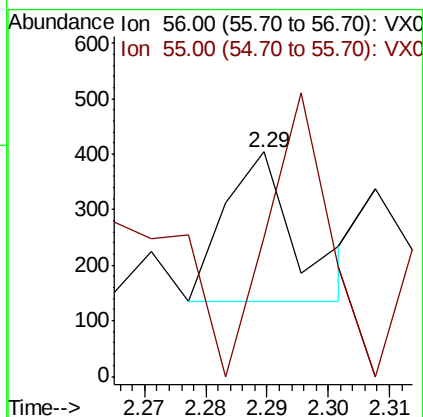
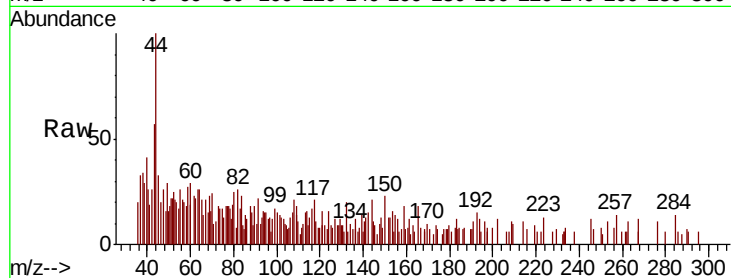




#13
Acrolein
Concen: 0.271 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

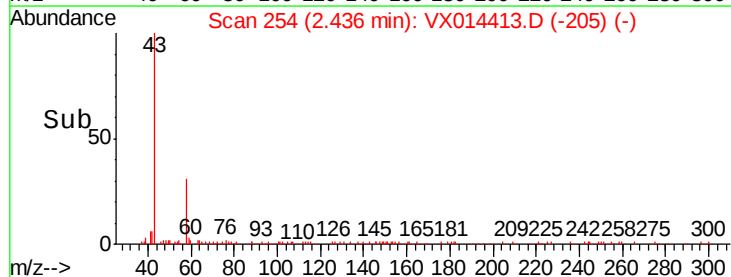
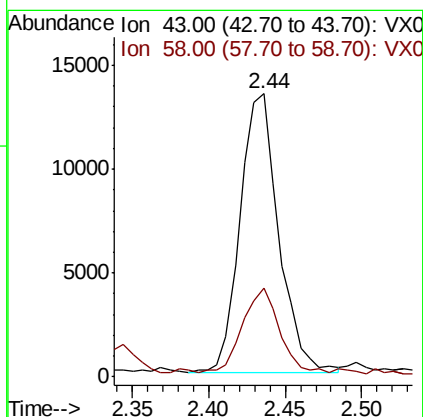
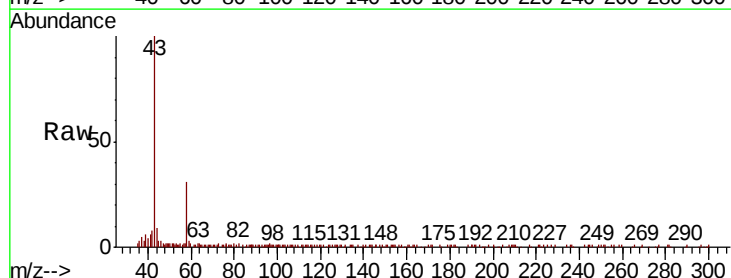
Instrument :
MSVOA_X
ClientSampleId :
PB125870ZHE#02

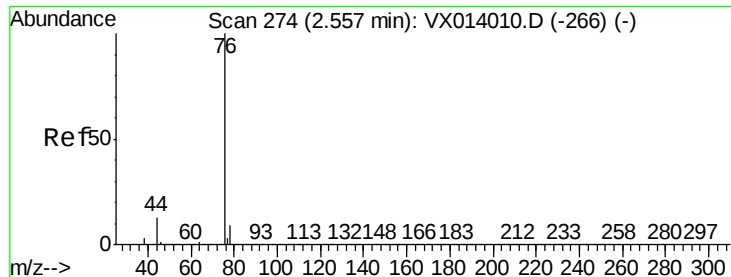
Tot Ion: 56 Resp: 216
Ion Ratio Lower Upper
56 100
55 162.5 56.9 85.3#



#16
Acetone
Concen: 5.583 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Tgt Ion: 43 Resp: 23398
Ion Ratio Lower Upper
43 100
58 29.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.802 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

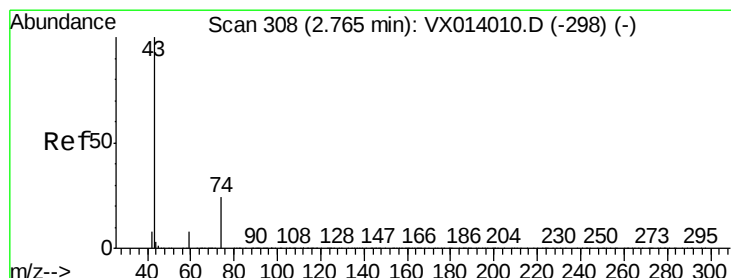
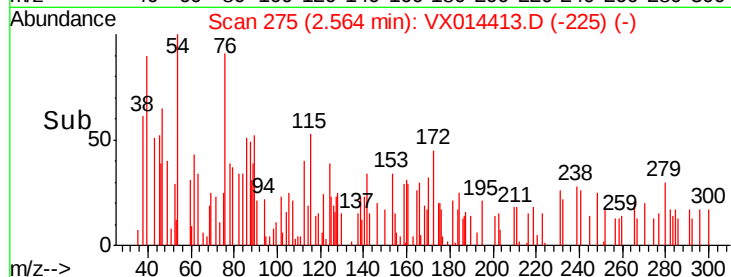
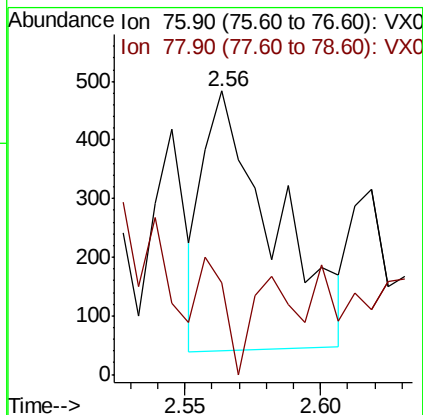
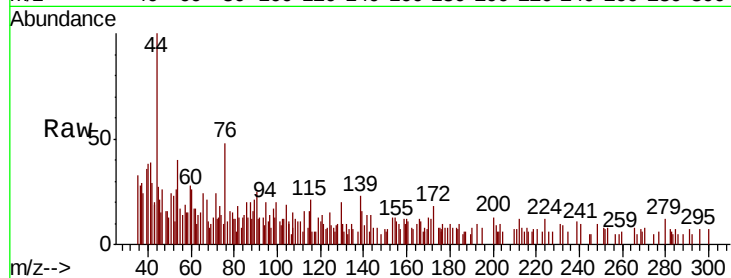
PB125870ZHE#02

Tot Ion: 76 Resp: 801

Ion Ratio Lower Upper

76 100

78 22.0 7.2 10.8#



#18

Methyl Acetate

Concen: 1.128 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014413.D

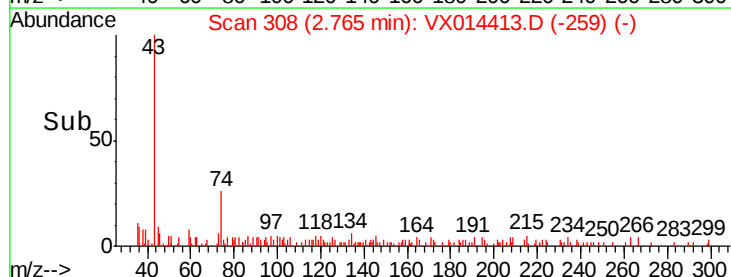
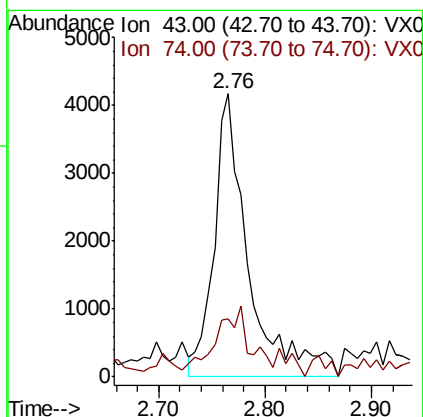
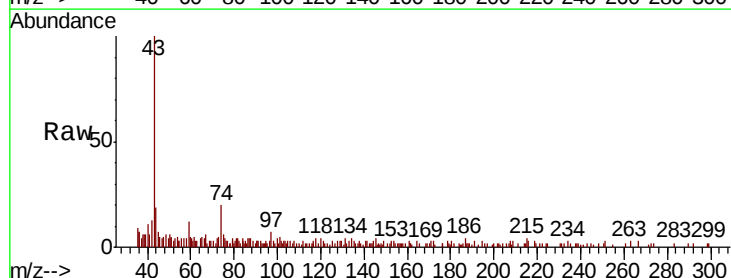
Acq: 03 Jan 2020 20:07

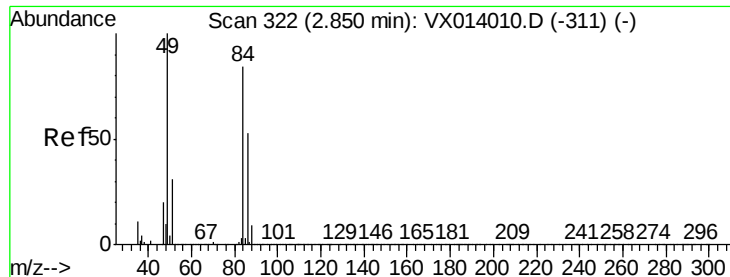
Tgt Ion: 43 Resp: 9364

Ion Ratio Lower Upper

43 100

74 20.5 19.5 29.3

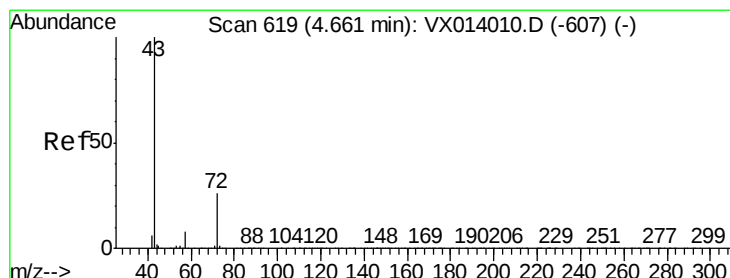
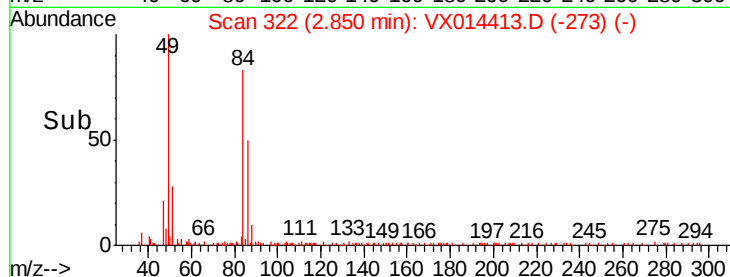
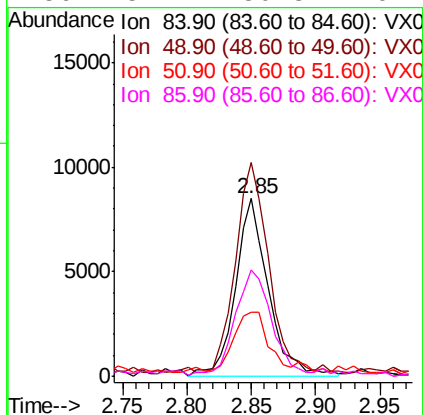
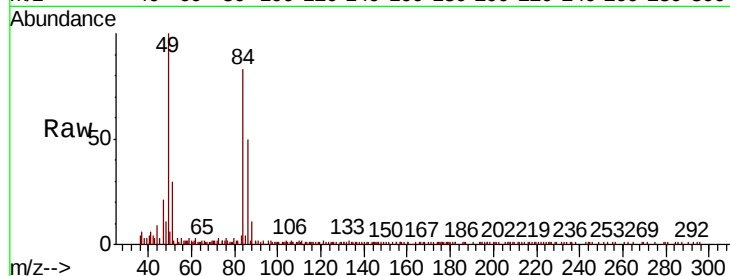




#20
Methvlene Chloride
Concen: 2.281 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

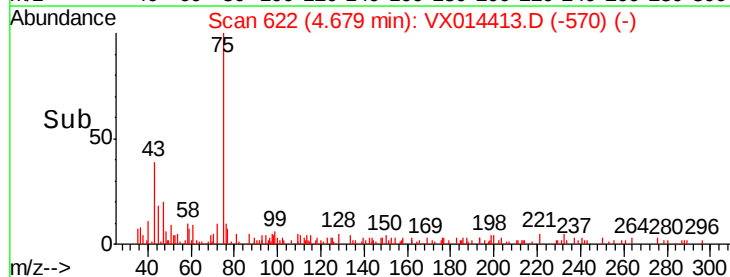
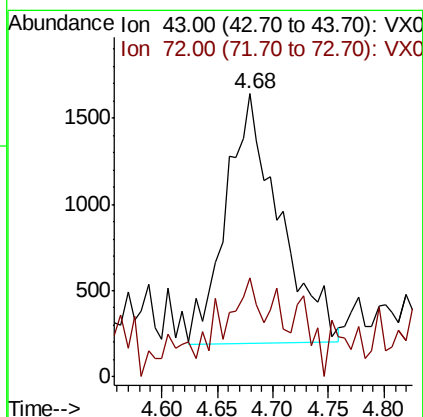
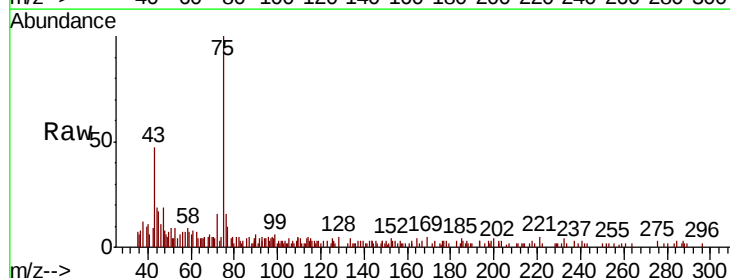
Instrument :
MSVOA_X
ClientSampleId :
PB125870ZHE#02

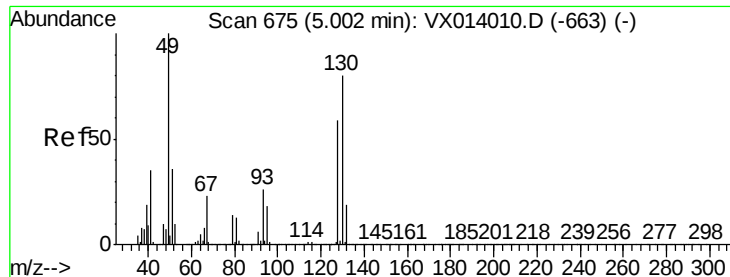
Tot Ion:	84	Resp:	15051
Ion	Ratio	Lower	Upper
84	100		
49	117.3	95.8	143.6
51	32.4	29.8	44.8
86	57.7	50.8	76.2



#25
2-Butanone
Concen: 0.935 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Tgt Ion:	43	Resp:	4833
Ion	Ratio	Lower	Upper
43	100		
72	25.8	21.0	31.4





#28

Bromochloromethane

Concen: 0.682 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

PB125870ZHE#02

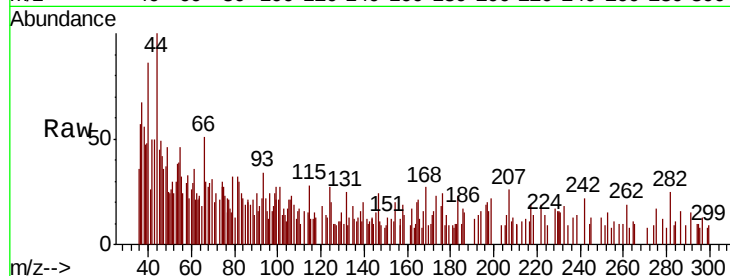
Tot Ion: 49 Resp: 962

Ion Ratio Lower Upper

49 100

129 28.2 0.0 5.0#

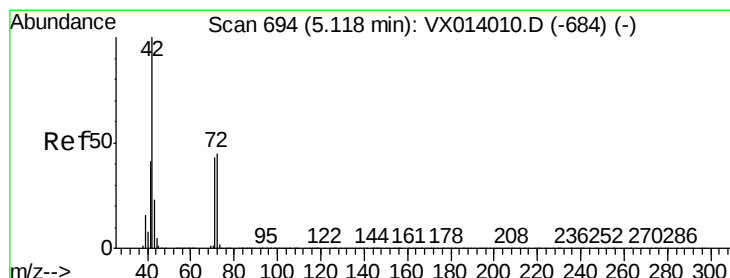
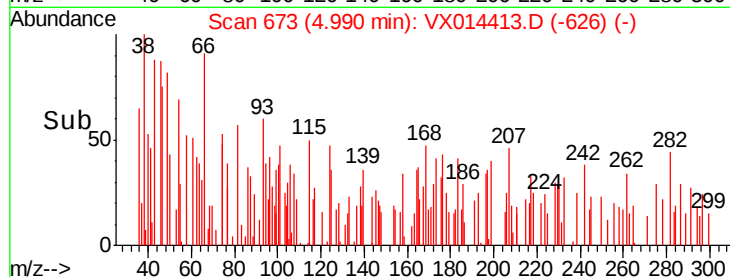
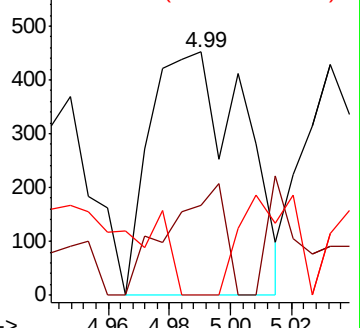
130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.242 ug/l

RT: 4.89 min Scan# 656

Delta R.T. -0.23 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

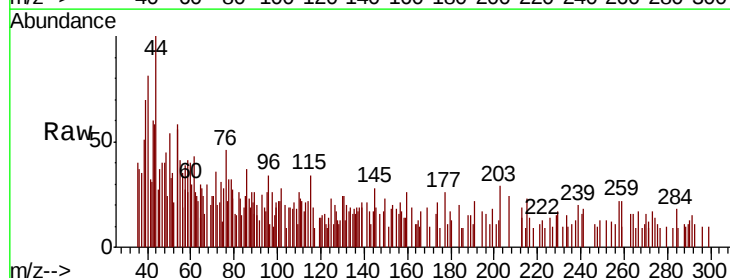
Tgt Ion: 42 Resp: 698

Ion Ratio Lower Upper

42 100

72 38.7 35.8 53.8

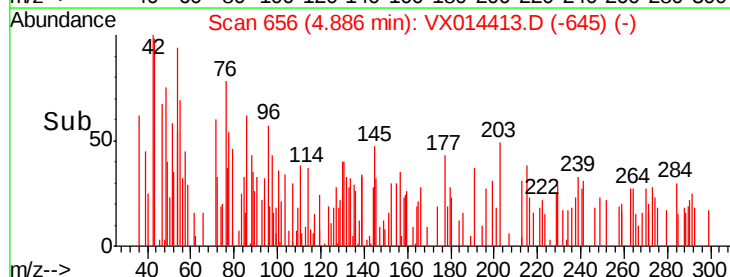
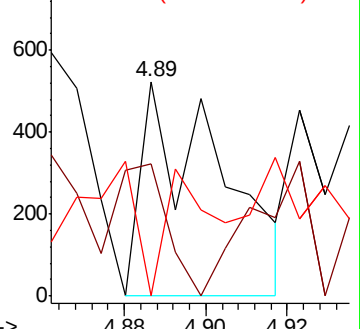
71 36.5 33.6 50.4

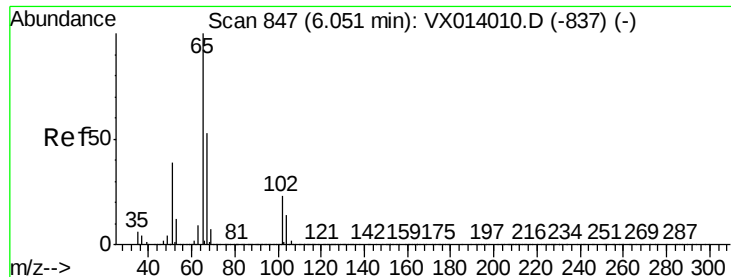


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.057 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

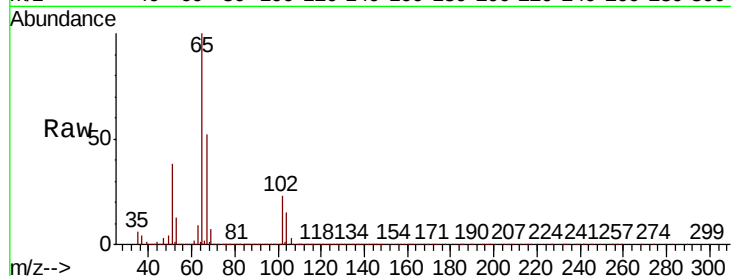
PB125870ZHE#02

Tot Ion: 65 Resp: 303760

Ion Ratio Lower Upper

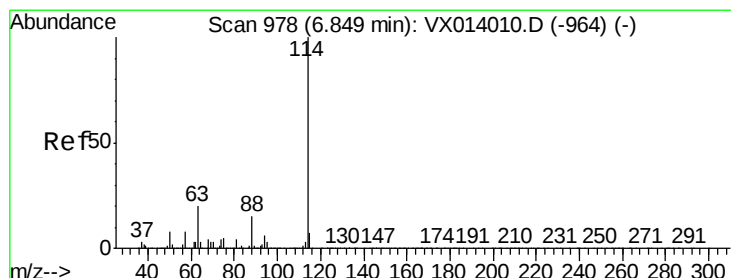
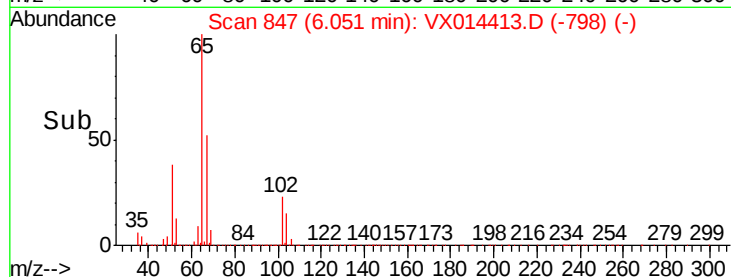
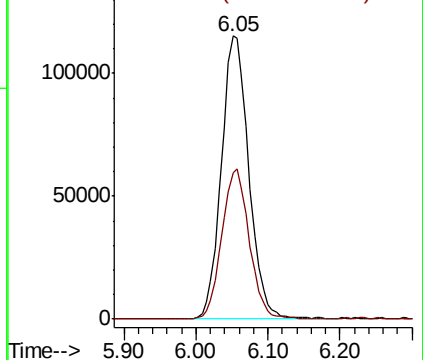
65 100

67 53.7 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

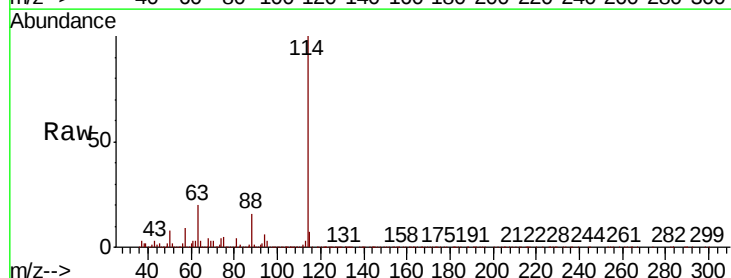
Tgt Ion: 114 Resp: 866160

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

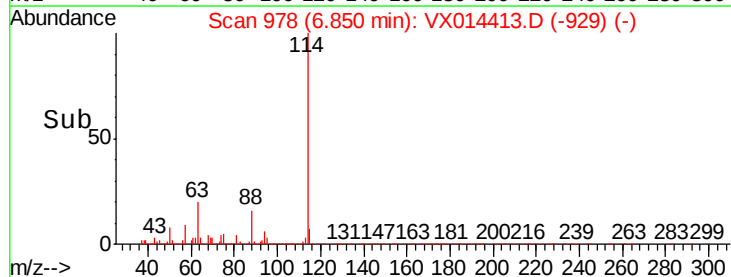
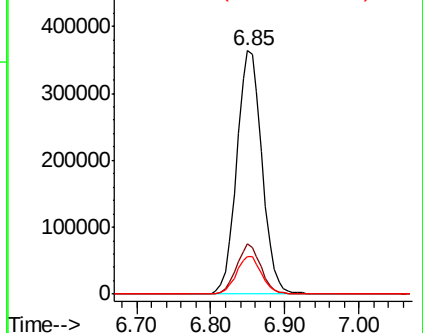
88 15.6 0.0 30.4

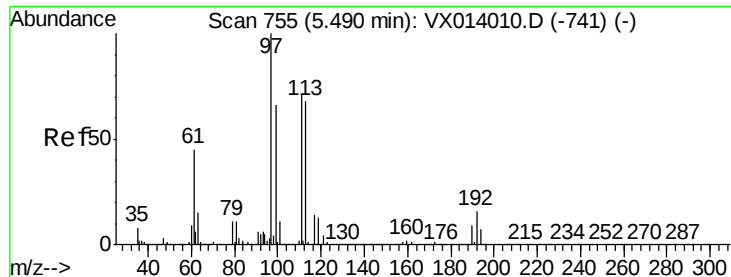


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

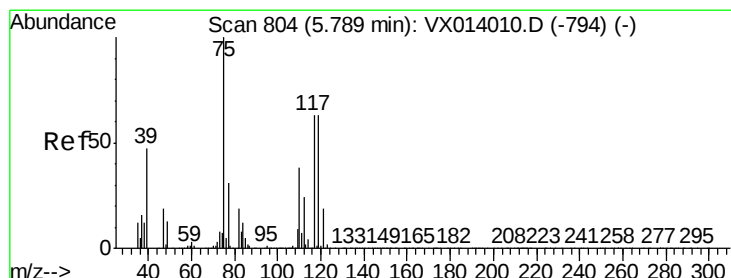
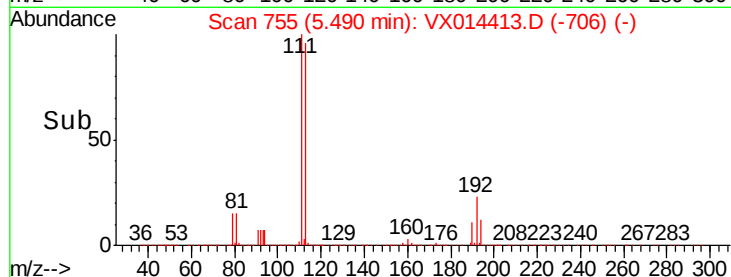
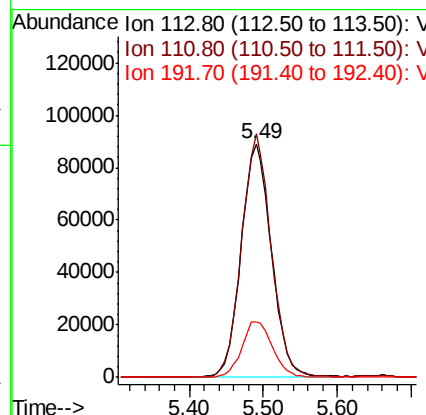
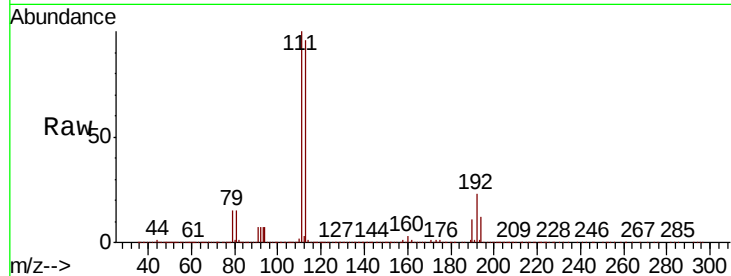




#35
 Dibromofluoromethane
 Concen: 48.395 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX014413.D
 Acq: 03 Jan 2020 20:07

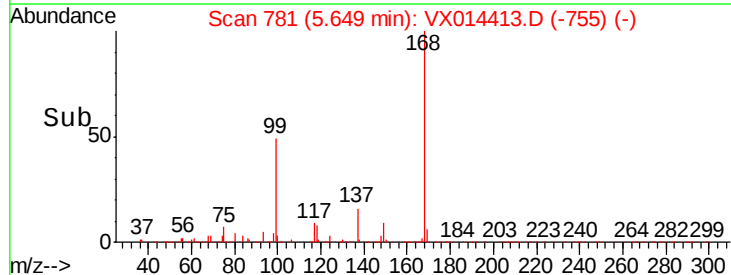
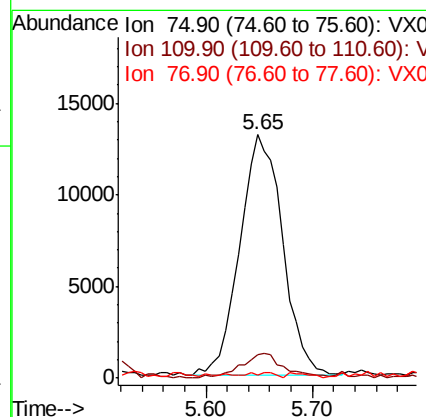
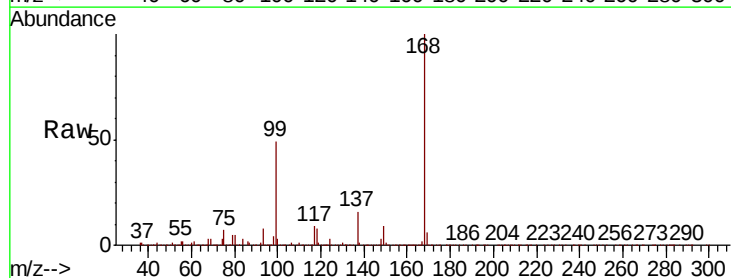
Instrument :
 MSVOA_X
 ClientSampleId :
 PB125870ZHE#02

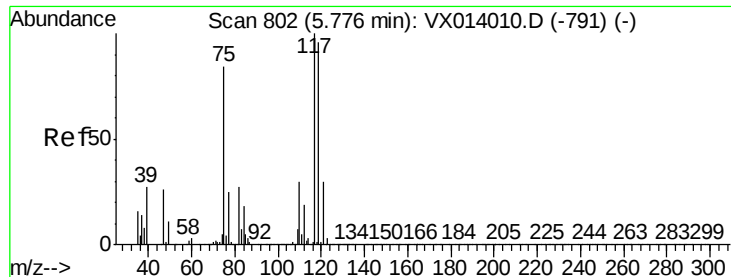
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.0	123.0
192	24.3	19.3	28.9



#36
 1,1-Dichloropropene
 Concen: 4.681 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014413.D
 Acq: 03 Jan 2020 20:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.3	54.9#
77	1.4	24.8	37.2#

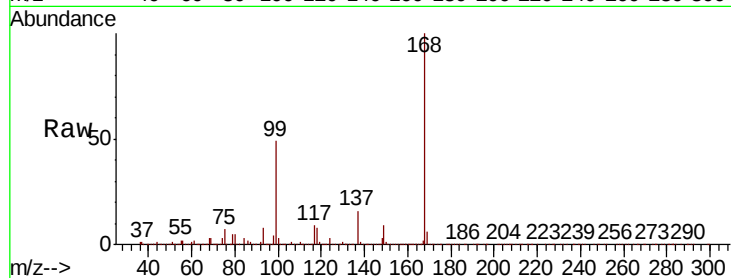




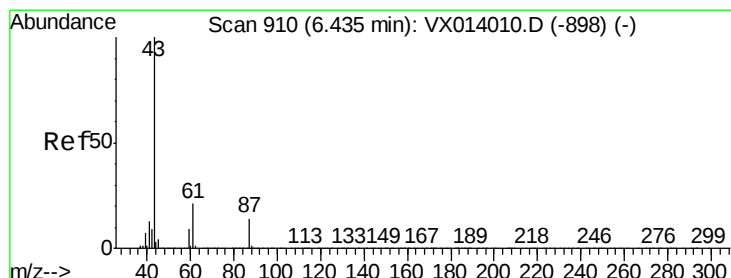
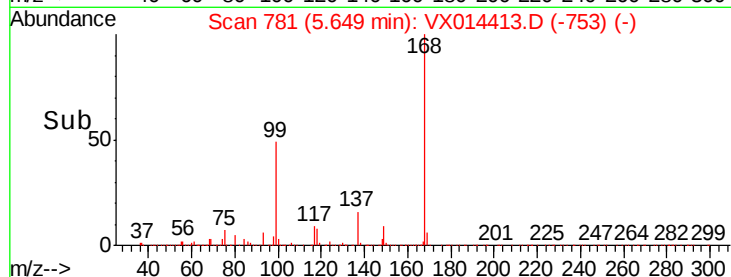
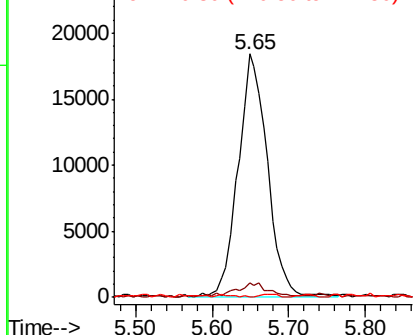
#38
Carbon Tetrachloride
Concen: 6.806 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Instrument :
MSVOA_X
ClientSampleId :
PB125870ZHE#02

Tot Ion:117 Resp: 49275
Ion Ratio Lower Upper
117 100
119 5.3 76.2 114.4#
121 0.0 23.6 35.4#

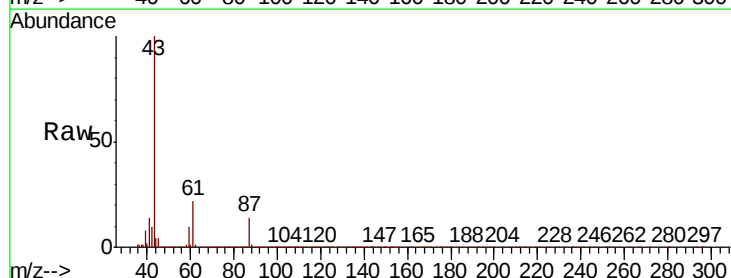


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

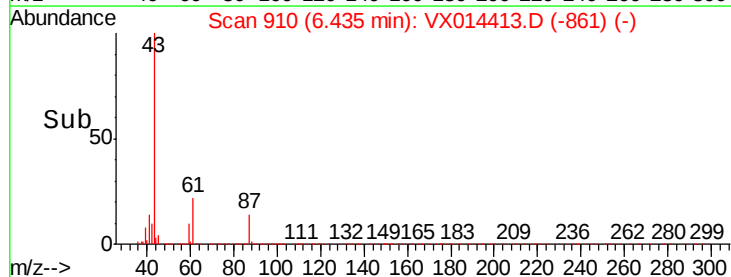
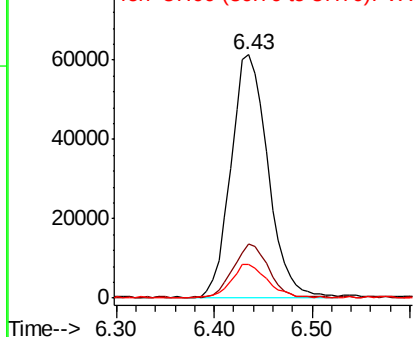


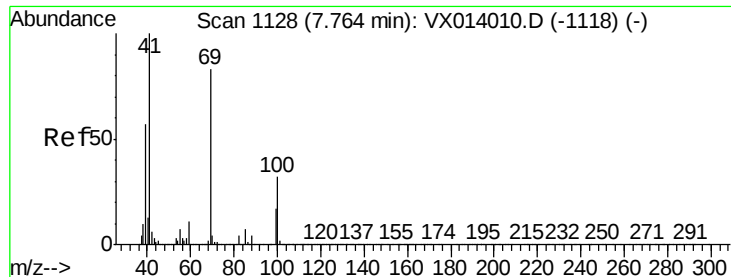
#43
Isopropyl Acetate
Concen: 11.027 ug/l
RT: 6.43 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Tgt Ion: 43 Resp: 160161
Ion Ratio Lower Upper
43 100
61 21.1 16.4 24.6
87 13.8 10.7 16.1



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

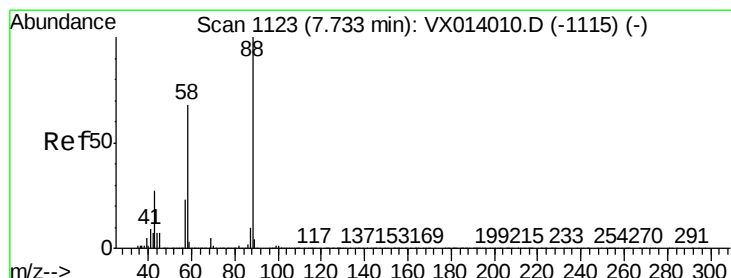
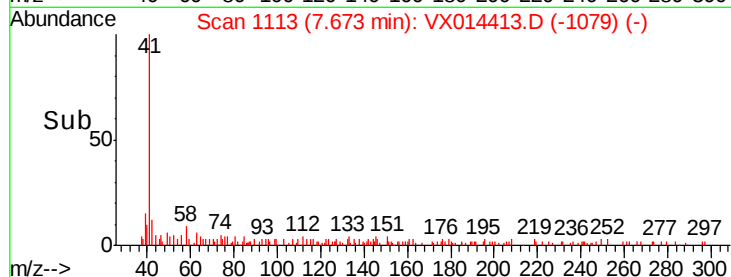
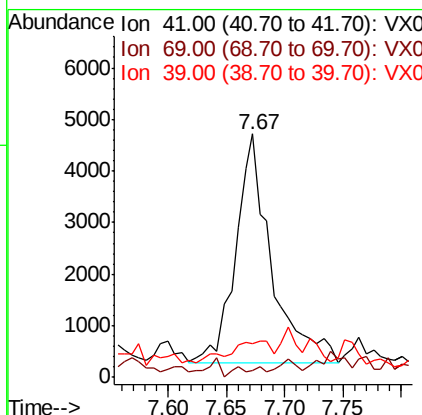
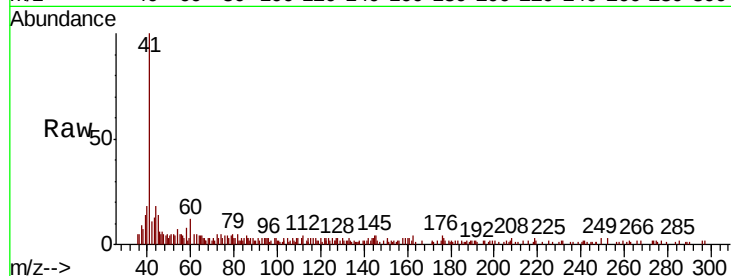




#48
Methvl methacrylate
Concen: 1.330 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

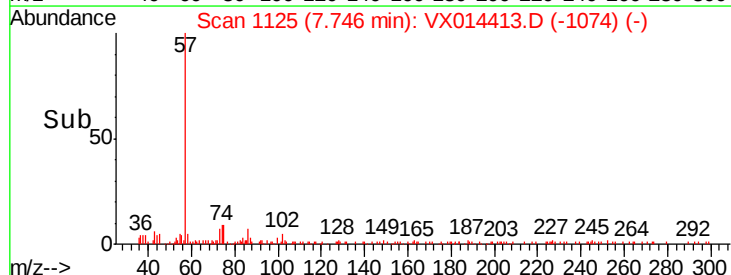
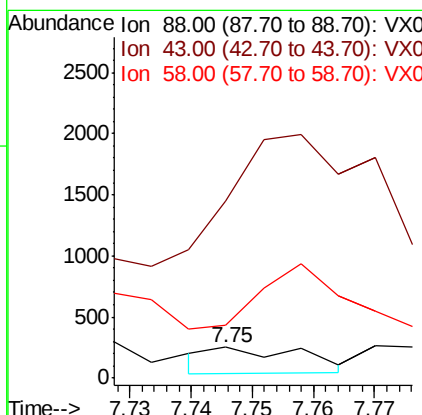
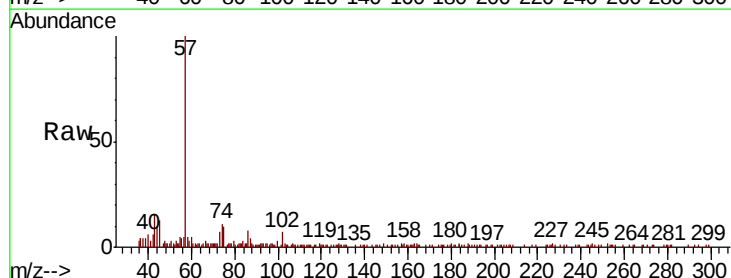
Instrument :
MSVOA_X
ClientSampleId :
PB125870ZHE#02

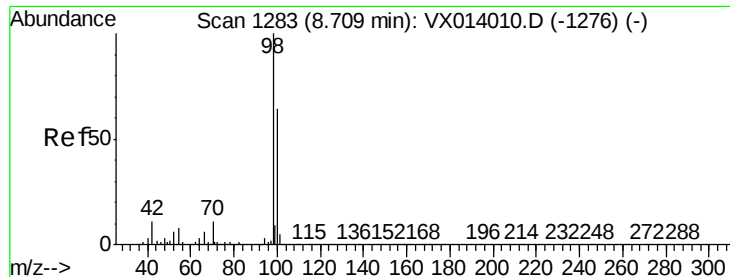
Tot Ion: 41 Resp: 9462
Ion Ratio Lower Upper
41 100
69 0.0 65.8 98.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 1.568 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX014413.D
Acq: 03 Jan 2020 20:07

Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 0.0 26.5 39.7#
58 0.0 56.8 85.2#





#50

Toluene-d8

Concen: 50.208 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

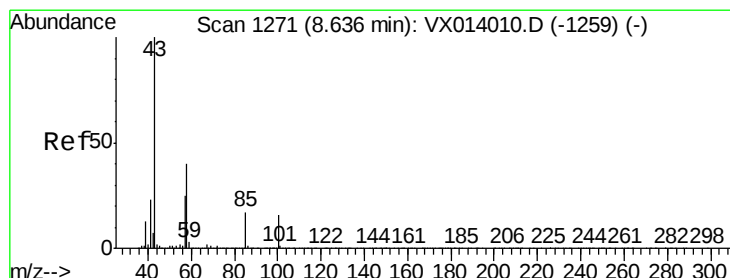
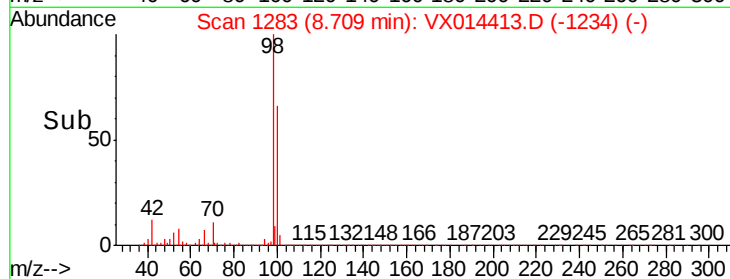
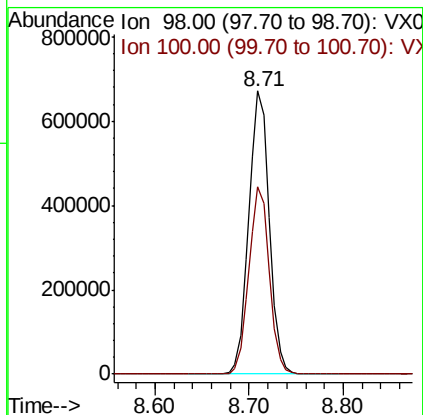
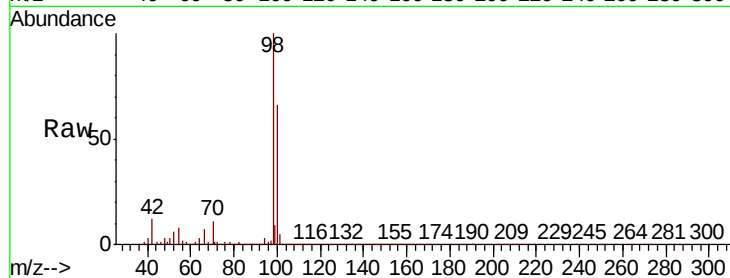
PB125870ZHE#02

Tot Ion: 98 Resp: 1029209

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 15.737 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014413.D

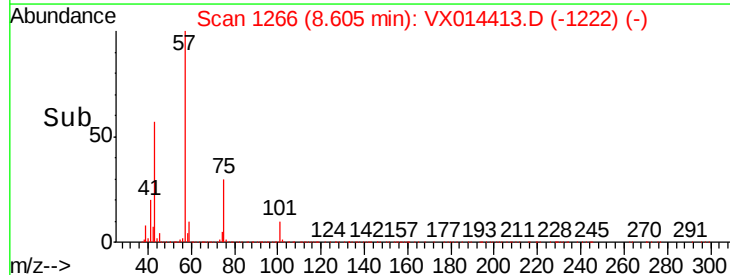
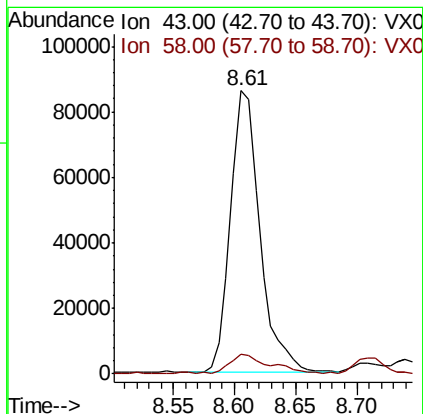
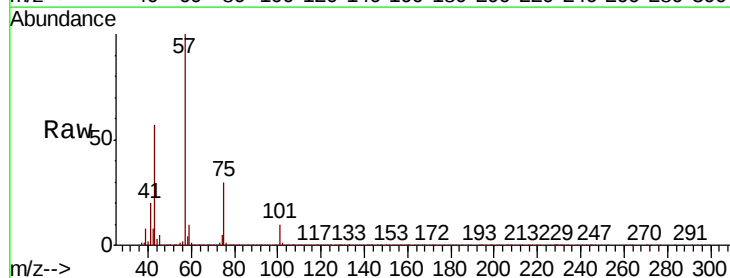
Acq: 03 Jan 2020 20:07

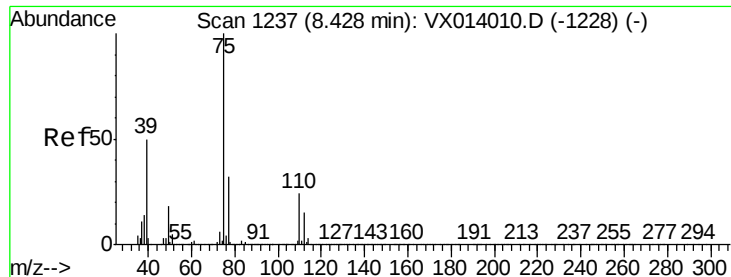
Tgt Ion: 43 Resp: 143544

Ion Ratio Lower Upper

43 100

58 9.0 32.2 48.2#





#54

cis-1,3-Dichloropropene

Concen: 7.317 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

PB125870ZHE#02

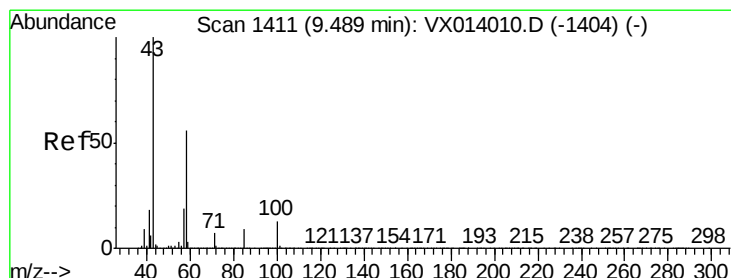
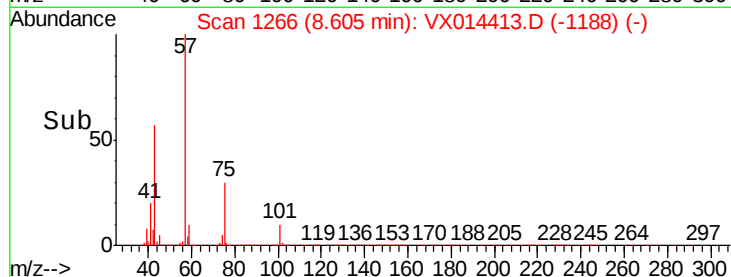
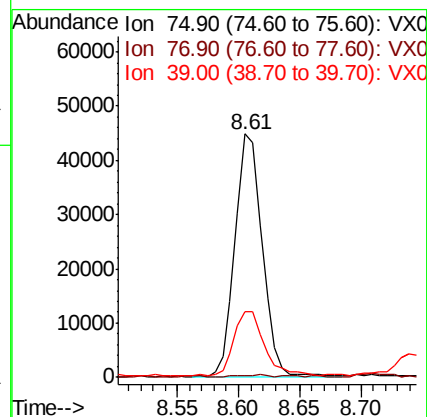
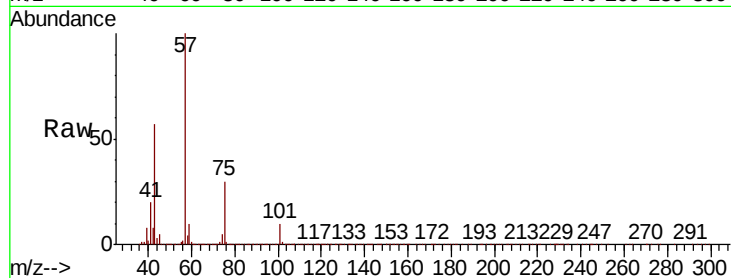
Tot Ion: 75 Resp: 69759

Ion Ratio Lower Upper

75 100

77 0.3 25.3 37.9#

39 26.5 39.9 59.9#



#59

2-Hexanone

Concen: 20.118 ug/l

RT: 9.54 min Scan# 1419

Delta R.T. 0.05 min

Lab File: VX014413.D

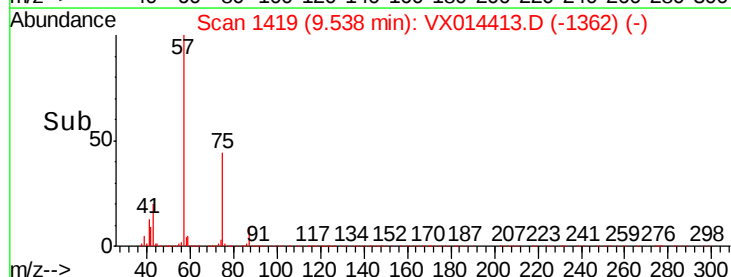
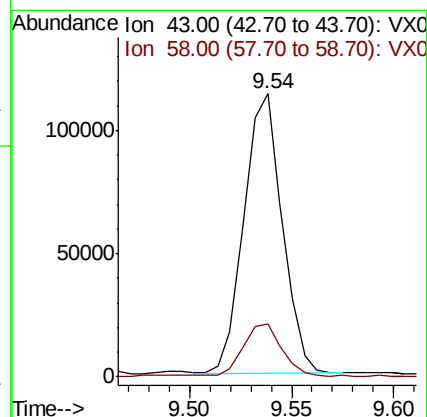
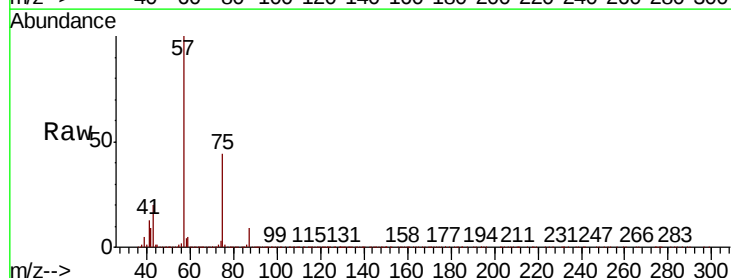
Acq: 03 Jan 2020 20:07

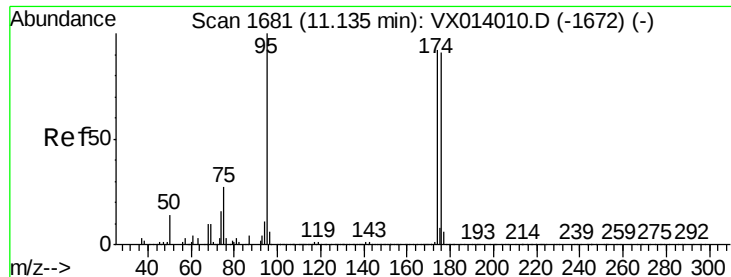
Tgt Ion: 43 Resp: 147726

Ion Ratio Lower Upper

43 100

58 19.2 28.0 84.0#





#62

4-Bromofluorobenzene

Concen: 47.621 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

PB125870ZHE#02

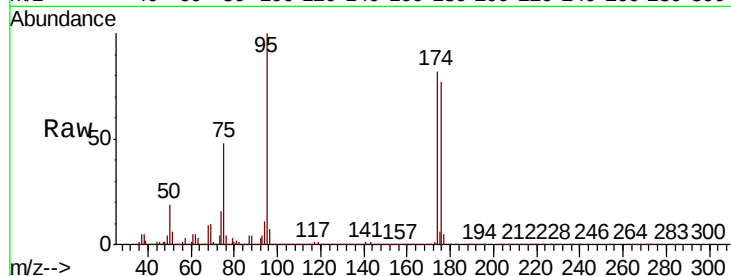
Tot Ion: 95 Resp: 356838

Ion Ratio Lower Upper

95 100

174 90.9 0.0 175.8

176 86.0 0.0 173.0

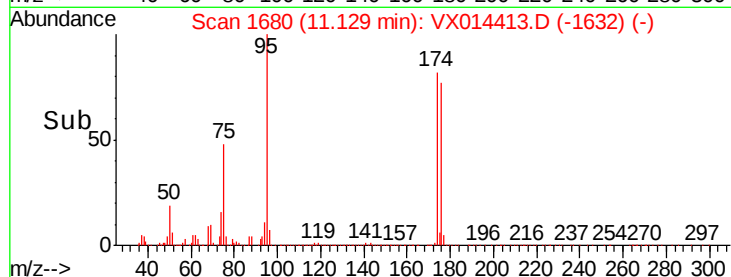


Abundance Ion 94.90 (94.60 to 95.60): VX014413.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014413.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014413.D (-1672) (-)

Time-->



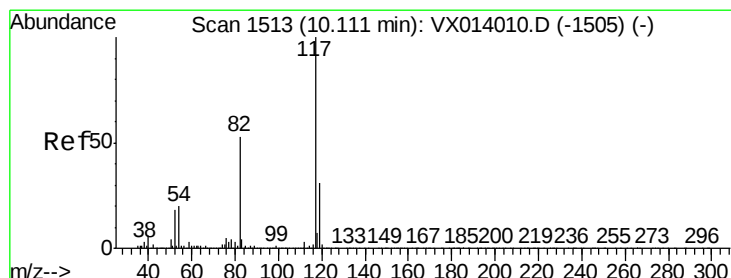
Abundance

Ion 94.90 (94.60 to 95.60): VX014413.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014413.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014413.D (-1672) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

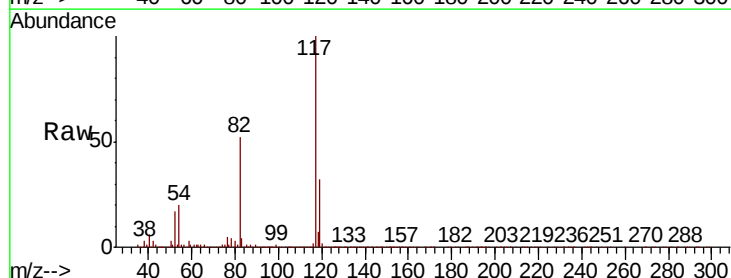
Tgt Ion: 117 Resp: 781248

Ion Ratio Lower Upper

117 100

82 51.9 42.2 63.4

119 32.1 25.1 37.7

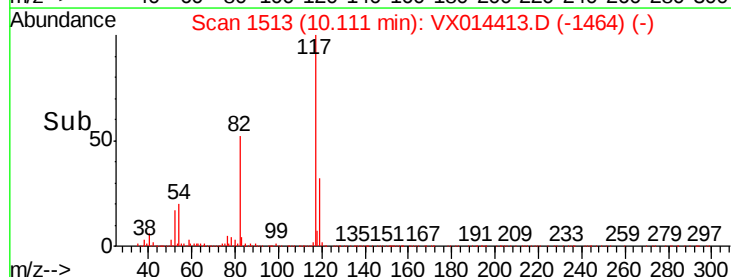


Abundance Ion 116.90 (116.60 to 117.60): VX014413.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014413.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014413.D (-1464) (-)

Time-->



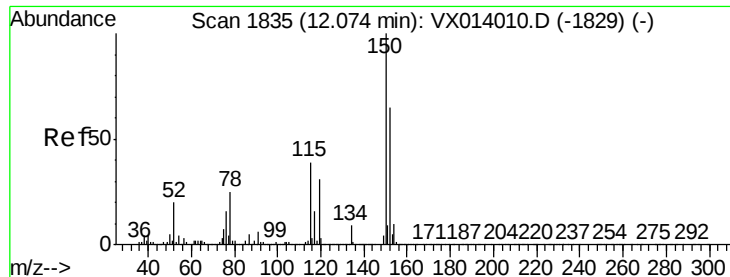
Abundance

Ion 116.90 (116.60 to 117.60): VX014413.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX014413.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX014413.D (-1464) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

PB125870ZHE#02

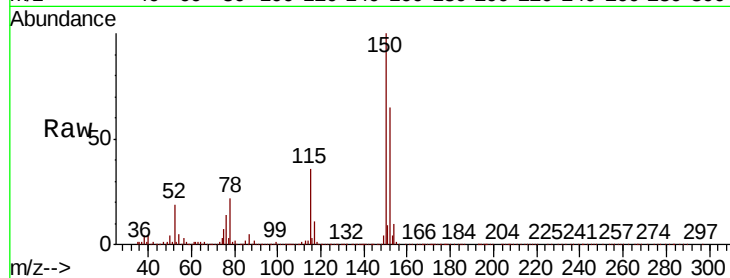
Tot Ion:152 Resp: 357943

Ion Ratio Lower Upper

152 100

115 55.1 38.3 114.9

150 154.4 0.0 345.4

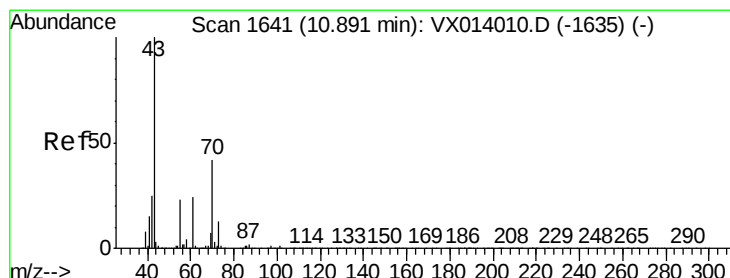
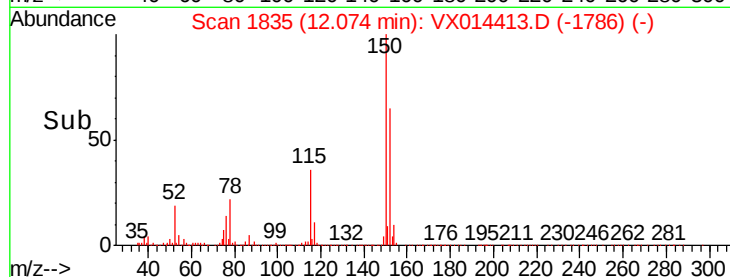
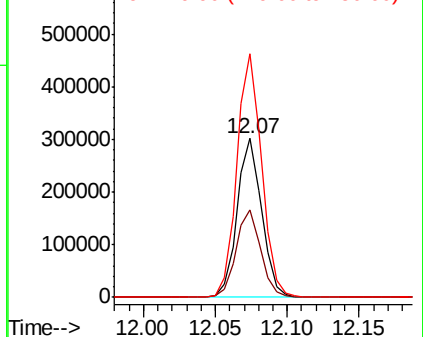


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.518 ug/l

RT: 10.82 min Scan# 1630

Delta R.T. -0.07 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Tgt Ion: 43 Resp: 6117

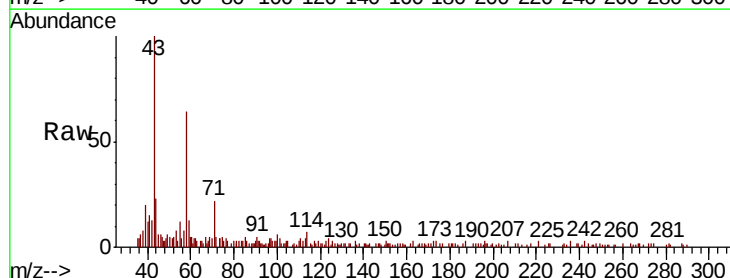
Ion Ratio Lower Upper

43 100

70 6.5 34.4 51.6#

55 13.0 19.1 28.7#

61 8.4 19.7 29.5#



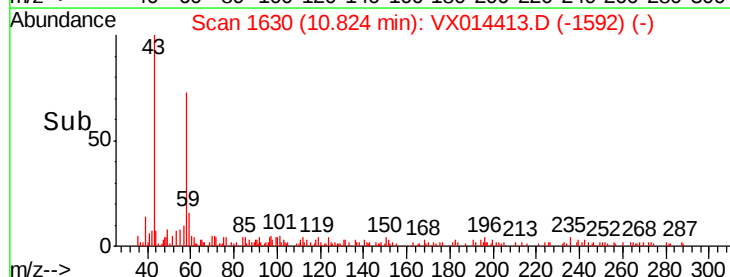
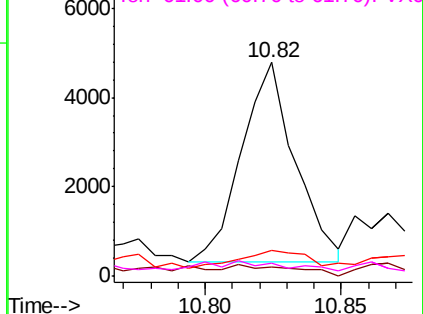
Abundance

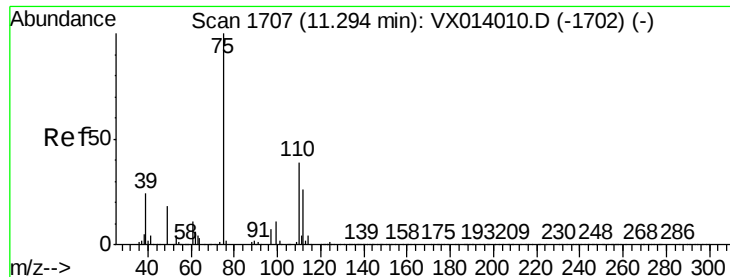
Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.260 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Instrument :

MSVOA_X

ClientSampleId :

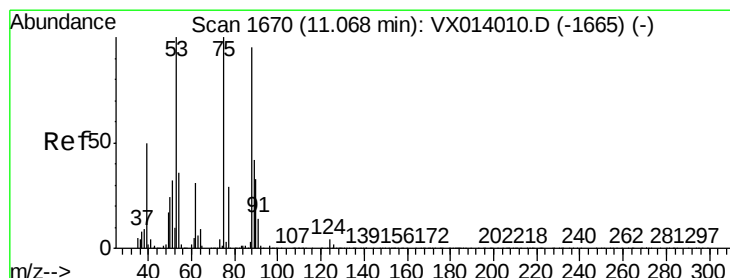
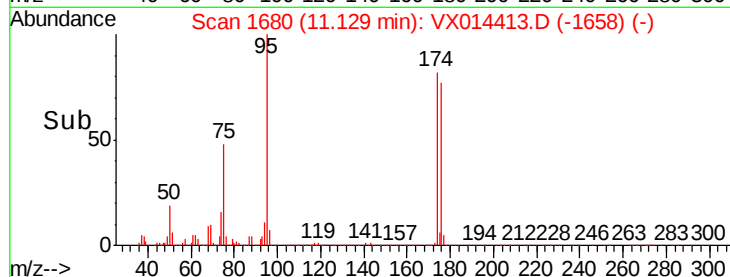
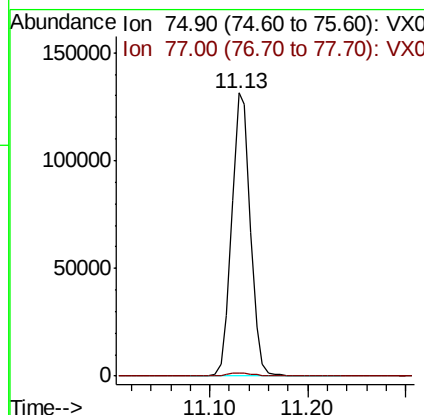
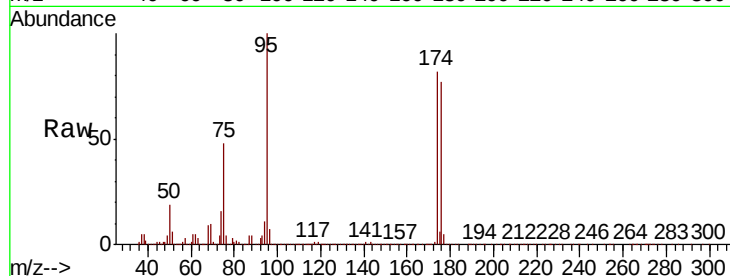
PB125870ZHE#02

Tot Ion: 75 Resp: 172977

Ion Ratio Lower Upper

75 100

77 1.6 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.828 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014413.D

Acq: 03 Jan 2020 20:07

Tgt Ion: 75 Resp: 172977

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.0 34.6 51.8#

