

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060818\
 Data File : VX002415.D
 Acq On : 08 Jun 2018 21:10
 Operator : JC/MD
 Sample : J3417-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(JUNE)

Quant Time: Jun 09 04:50:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	38557	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	223988	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	206297	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.07	65	96398	31.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.90%	
60) 4-Bromofluorobenzene		11.14	95	101950	28.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.23%	
63) Toluene-d8		8.72	98	262254	28.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.07%	

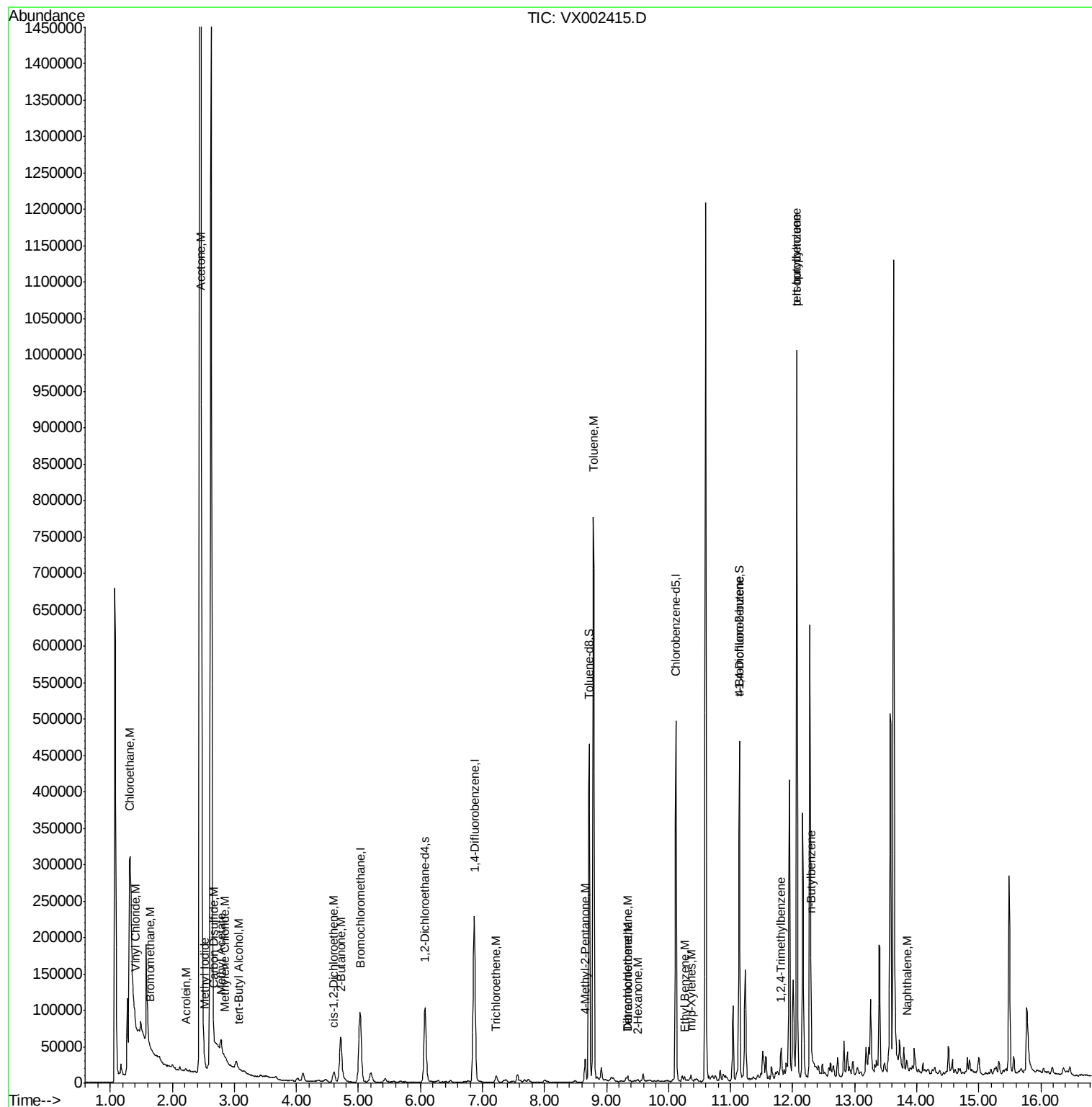
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Vinyl Chloride	1.40	62	562	0.23	ug/l	# 1
5) Bromomethane	1.65	94	793	0.58	ug/l	93
6) Chloroethane	1.32	64	586141	409.04	ug/l	# 54
11) Methyl Iodide	2.52	142	2478	0.82	ug/l	92
12) Methyl Acetate	2.78	43	16976	5.46	ug/l	93
13) Acrolein	2.22	56	300	1.13	ug/l	100
15) Acetone	2.45	58	1550149	4545.55	ug/l	99
16) Carbon Disulfide	2.67	76	55763	10.18	ug/l	98
18) Methylene Chloride	2.86	84	1637	0.76	ug/l	94
22) cis-1,2-Dichloroethene	4.60	96	8092	3.35	ug/l	85
23) tert-Butyl Alcohol	3.08	59	868	1.31	ug/l	# 87
30) 2-Butanone	4.71	43	111906	51.19	ug/l	99
37) Trichloroethene	7.22	130	2846	1.06	ug/l	89
53) Dibromochloromethane	9.34	129	1241	0.41	ug/l	# 11
58) 4-Methyl-2-Pentanone	8.65	43	18600	4.14	ug/l	96
59) 2-Hexanone	9.51	43	1759	0.50	ug/l	# 84
61) Tetrachloroethene	9.34	164	1483	0.47	ug/l	95
62) Toluene	8.79	91	478835	45.45	ug/l	98
66) Ethyl Benzene	10.26	91	3158	0.27	ug/l	98
67) m/p-Xylenes	10.37	106	1838	0.41	ug/l	95
77) t-1,4-Dichloro-2-butene	11.14	75	55421	42.99	ug/l	# 11
79) tert-butylbenzene	12.07	119	426446	39.69	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	9047	0.87	ug/l	72
82) p-Isopropyltoluene	12.07	119	426446	39.69	ug/l	99
85) n-Butylbenzene	12.30	91	6657	0.74	ug/l	76
91) Naphthalene	13.84	128	6901	0.52	ug/l	# 93

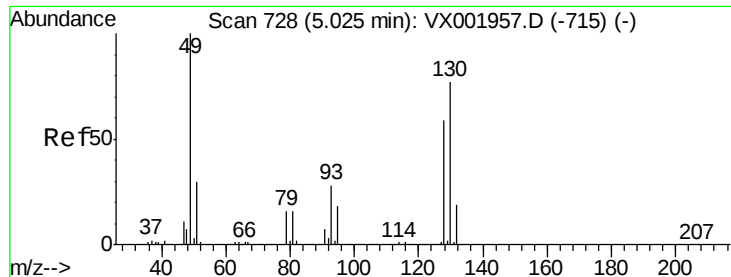
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 09 04:50:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X052518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

002M-35TH-AVE(JUNE)

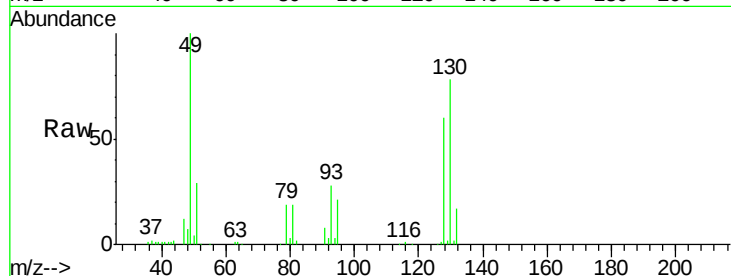
Tot Ion:128 Resp: 38557

Ion Ratio Lower Upper

128 100

49 166.8 0.0 423.0

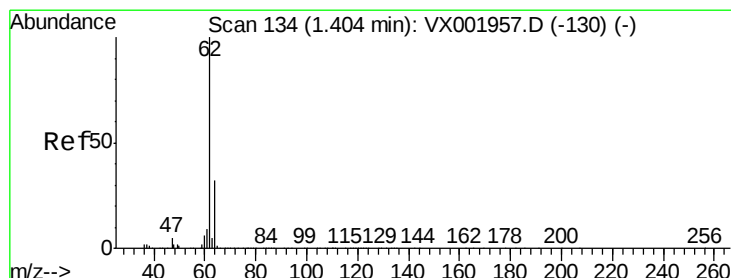
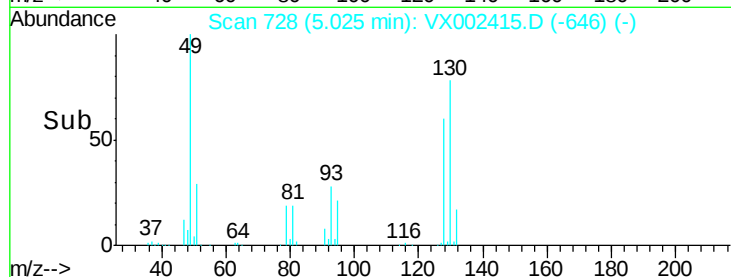
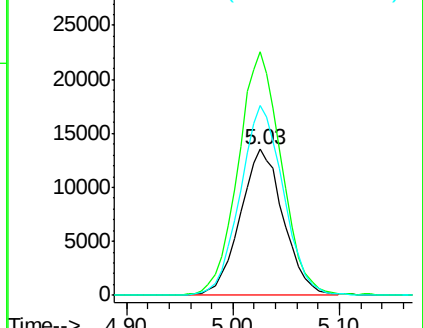
130 129.8 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#4

Vinyl Chloride

Concen: 0.23 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX002415.D

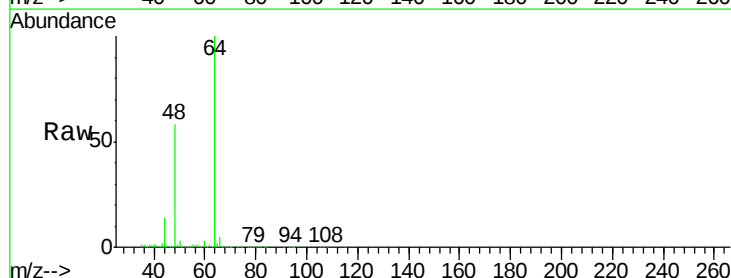
Acq: 08 Jun 2018 21:10

Tgt Ion: 62 Resp: 562

Ion Ratio Lower Upper

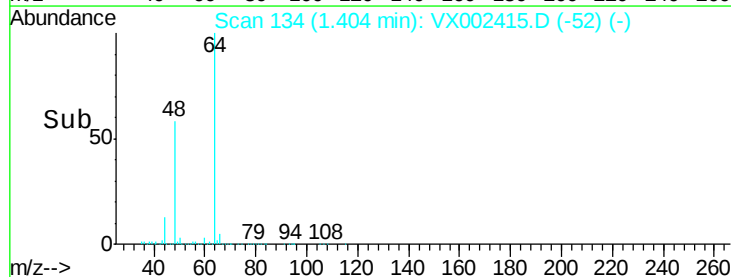
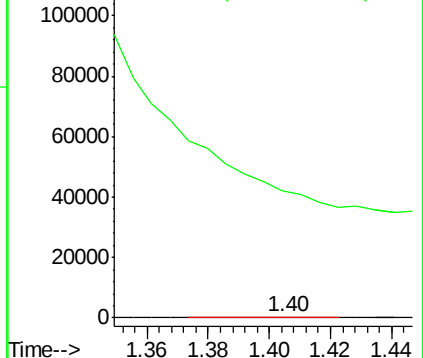
62 100

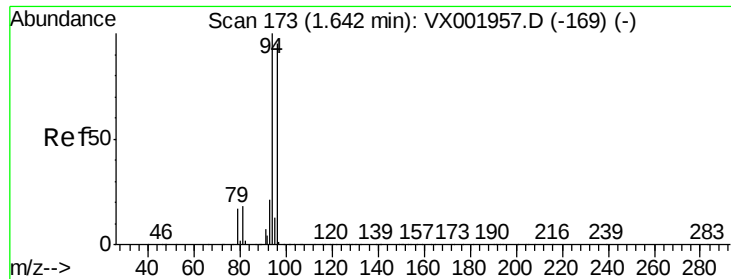
64 2321.4 25.3 37.9#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 0.58 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

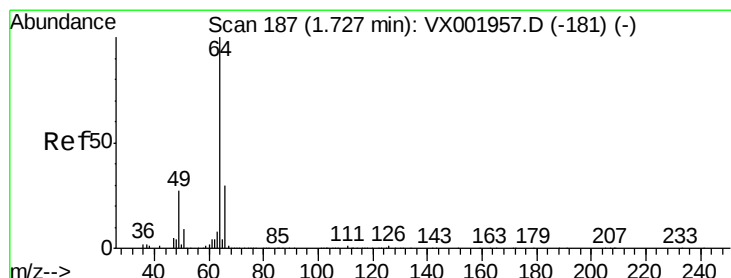
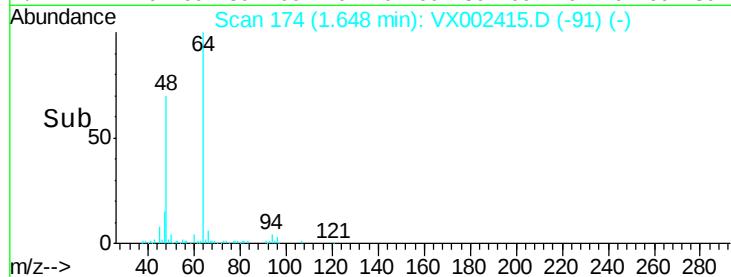
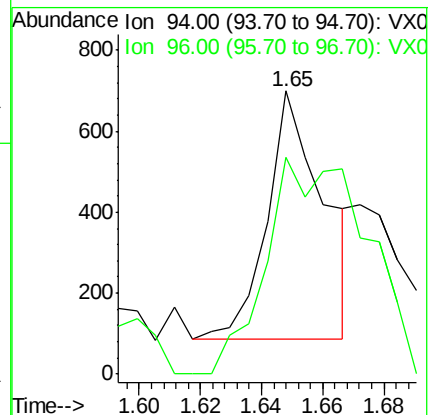
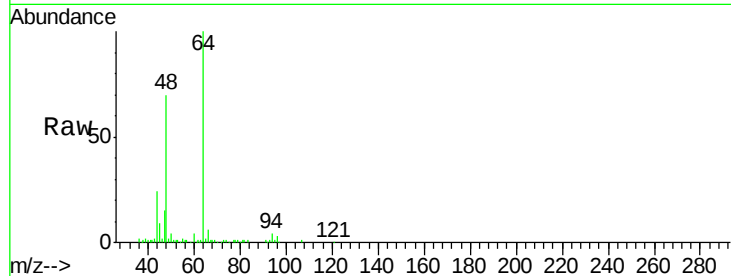
002M-35TH-AVE(JUNE)

Tot Ion: 94 Resp: 793

Ion Ratio Lower Upper

94 100

96 87.4 75.7 113.5



#6

Chloroethane

Concen: 409.04 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.41 min

Lab File: VX002415.D

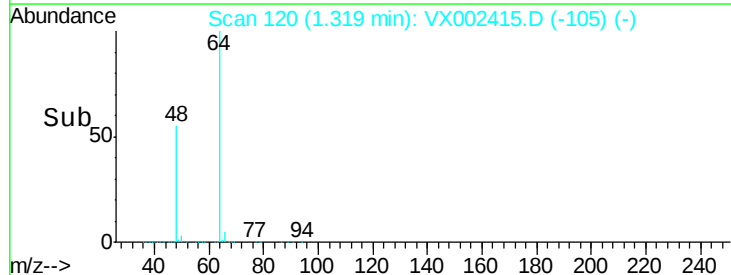
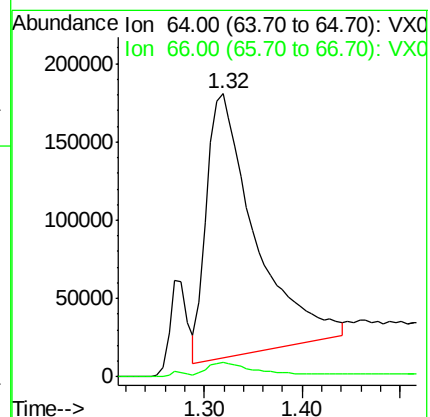
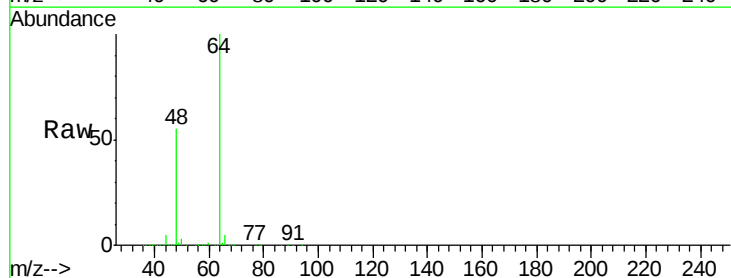
Acq: 08 Jun 2018 21:10

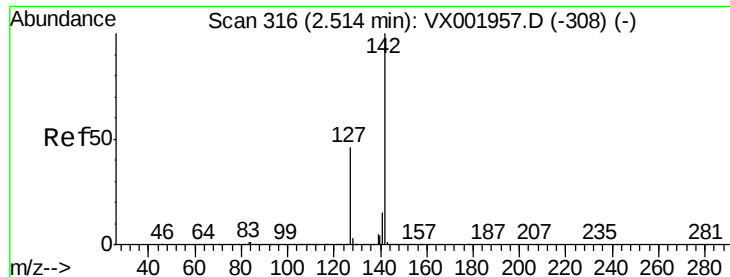
Tgt Ion: 64 Resp: 586141

Ion Ratio Lower Upper

64 100

66 5.2 24.3 36.5#

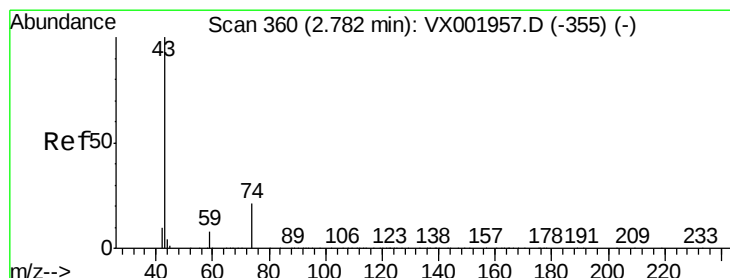
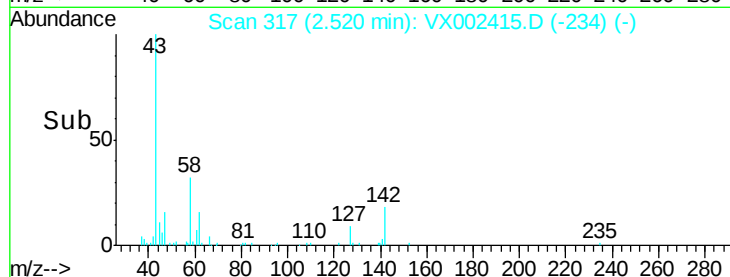
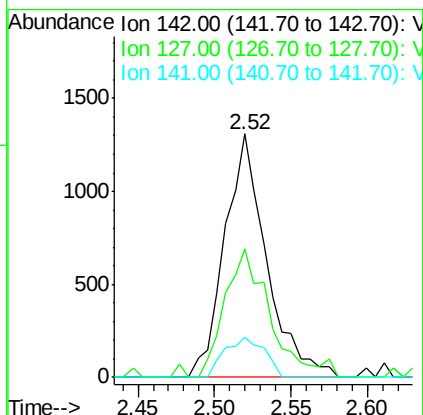
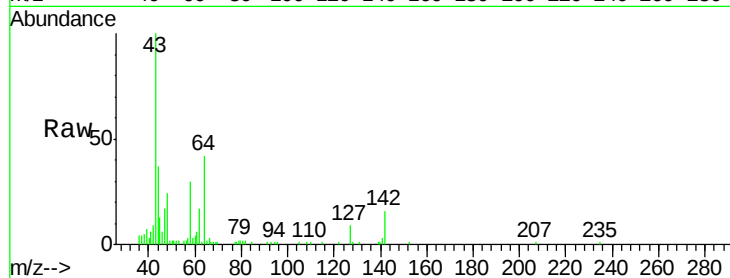




#11
Methyl Iodide
Concen: 0.82 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

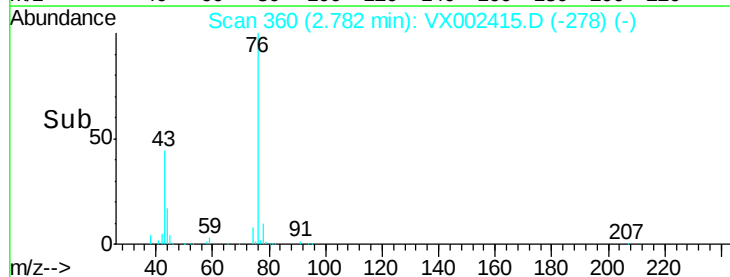
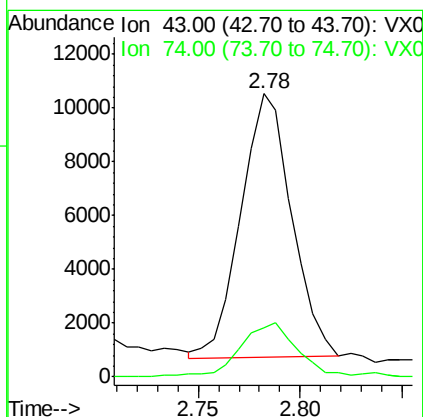
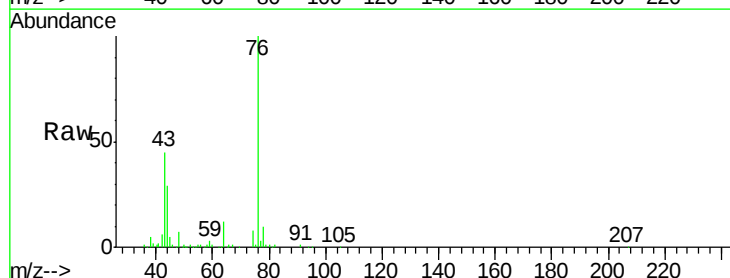
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

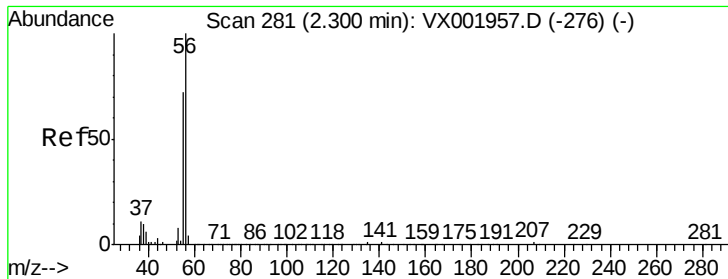
Tot Ion:142 Resp: 2478
Ion Ratio Lower Upper
142 100
127 52.9 23.2 69.6
141 16.7 7.4 22.2



#12
Methyl Acetate
Concen: 5.46 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion: 43 Resp: 16976
Ion Ratio Lower Upper
43 100
74 17.4 16.4 24.6





#13

Acrolein

Concen: 1.13 ug/l

RT: 2.22 min Scan# 268

Delta R.T. -0.08 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

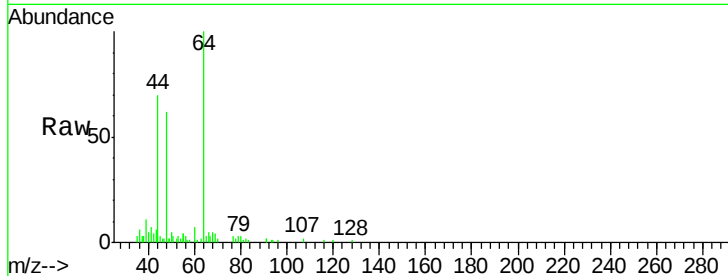
002M-35TH-AVE(JUNE)

Tot Ion: 56 Resp: 300

Ion Ratio Lower Upper

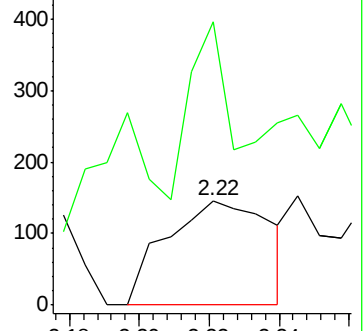
56 100

55 71.7 57.3 85.9

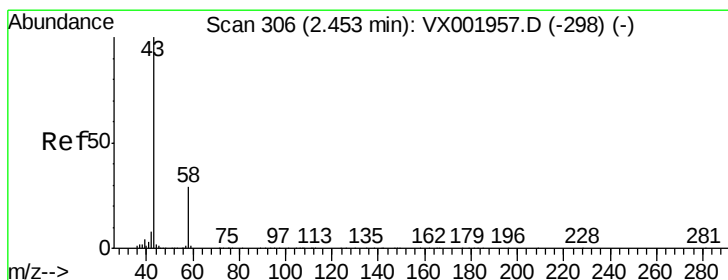
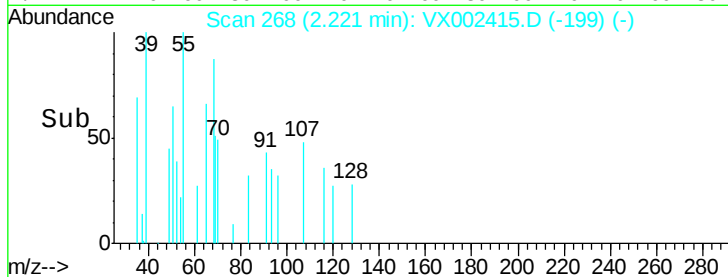


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acetone

Concen: 4545.55 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002415.D

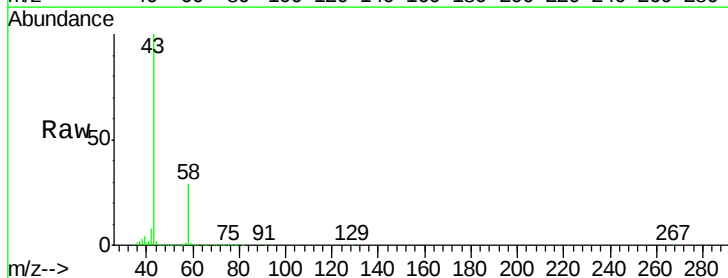
Acq: 08 Jun 2018 21:10

Tgt Ion: 58 Resp: 1550149

Ion Ratio Lower Upper

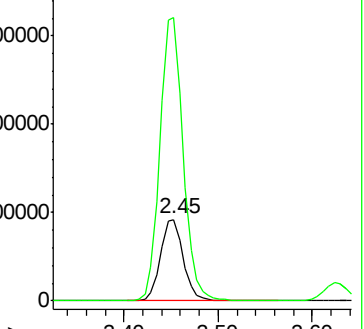
58 100

43 347.1 278.8 418.2

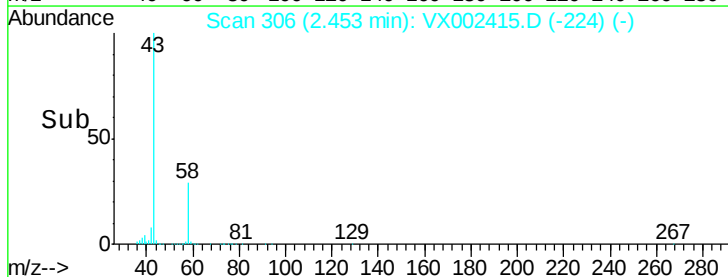


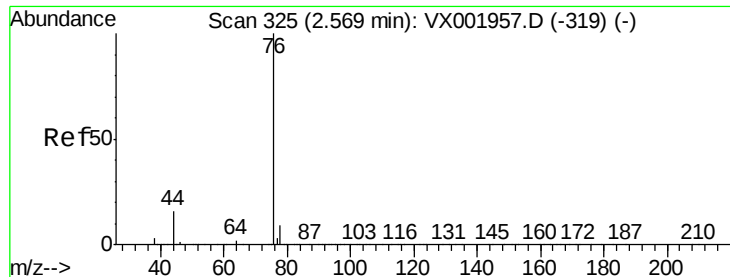
Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



Time-->





#16

Carbon Disulfide

Concen: 10.18 ug/l

RT: 2.67 min Scan# 342

Delta R.T. 0.10 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

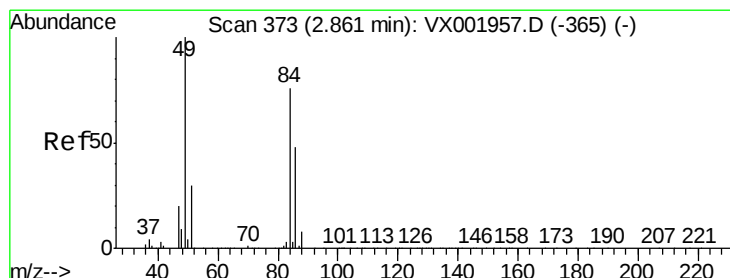
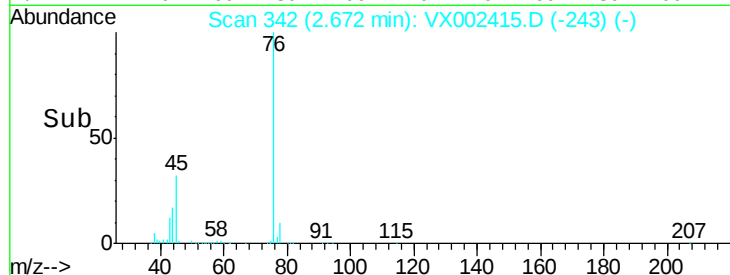
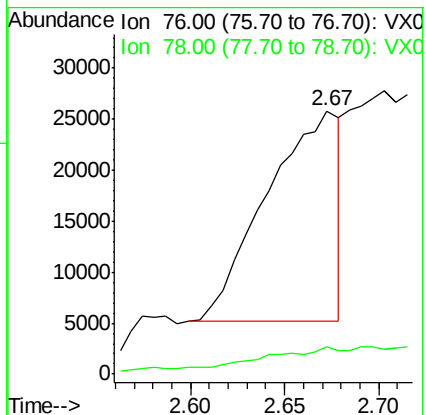
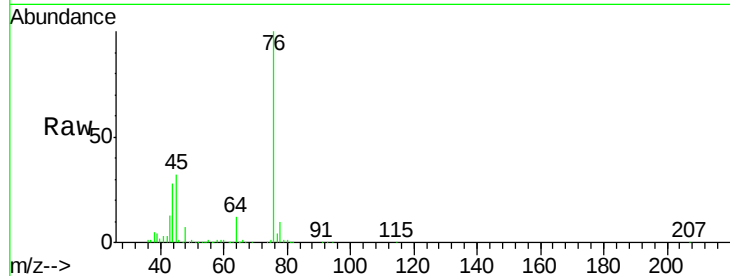
002M-35TH-AVE(JUNE)

Tot Ion: 76 Resp: 55763

Ion Ratio Lower Upper

76 100

78 10.0 7.4 11.0



#18

Methylene Chloride

Concen: 0.76 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Tgt Ion: 84 Resp: 1637

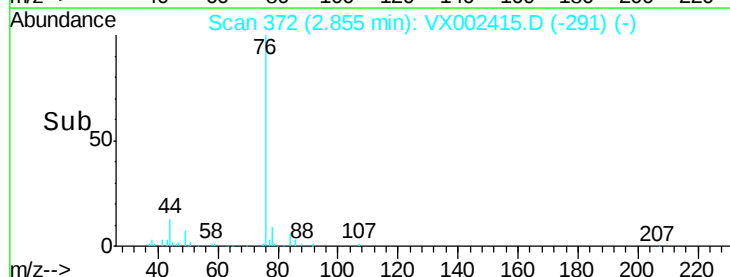
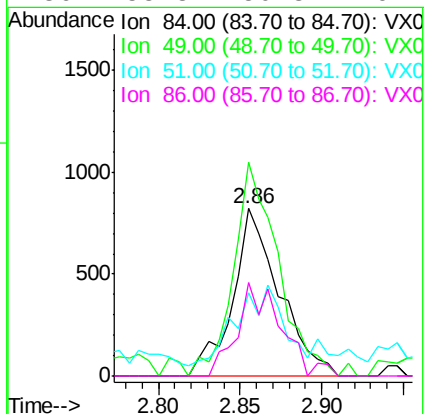
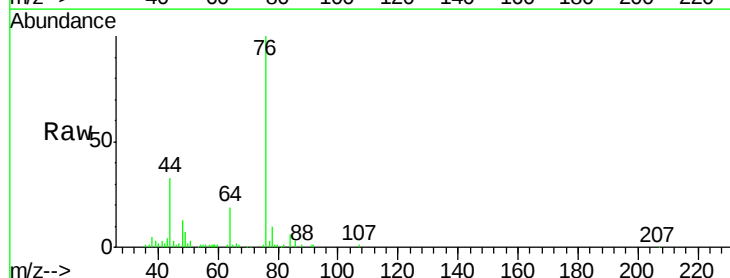
Ion Ratio Lower Upper

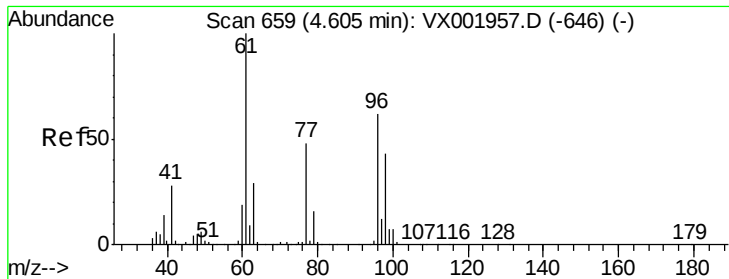
84 100

49 127.5 104.7 157.1

51 43.2 31.0 46.4

86 55.8 50.8 76.2





#22

cis-1,2-Dichloroethene

Concen: 3.35 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

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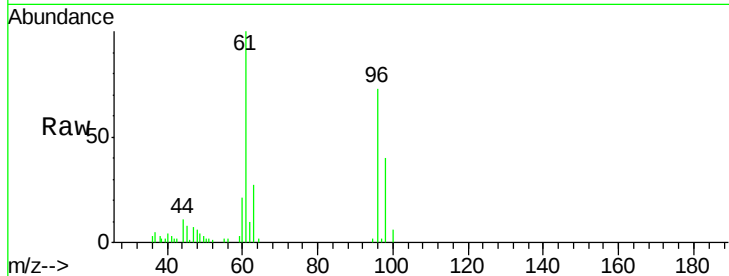
Tot Ion: 96 Resp: 8092

Ion Ratio Lower Upper

96 100

61 173.6 160.2 240.2

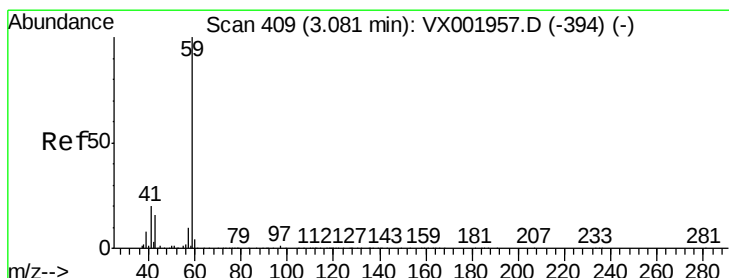
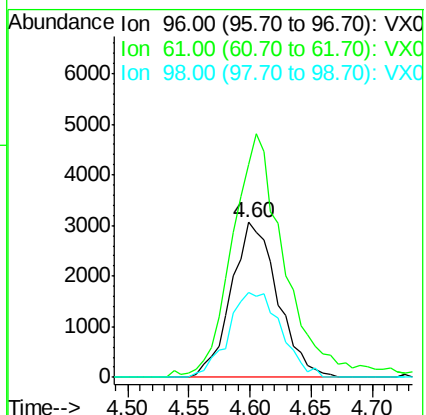
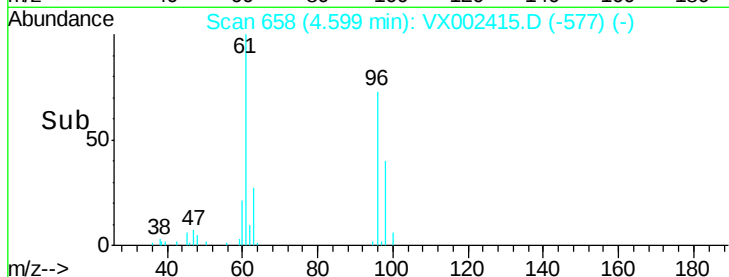
98 61.8 54.1 81.1



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#23

tert-Butyl Alcohol

Concen: 1.31 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002415.D

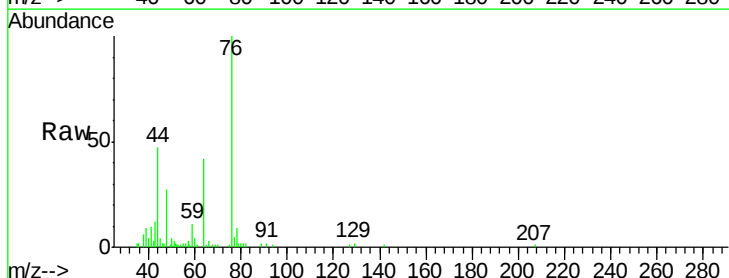
Acq: 08 Jun 2018 21:10

Tgt Ion: 59 Resp: 868

Ion Ratio Lower Upper

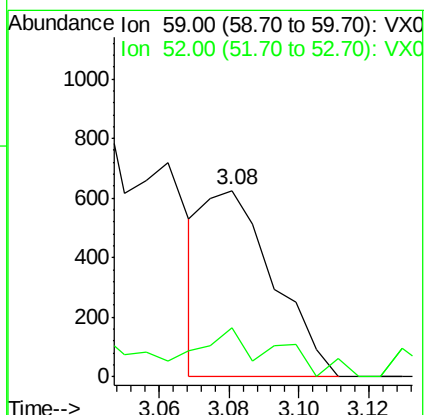
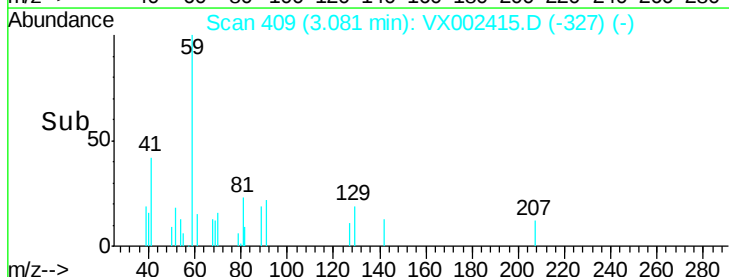
59 100

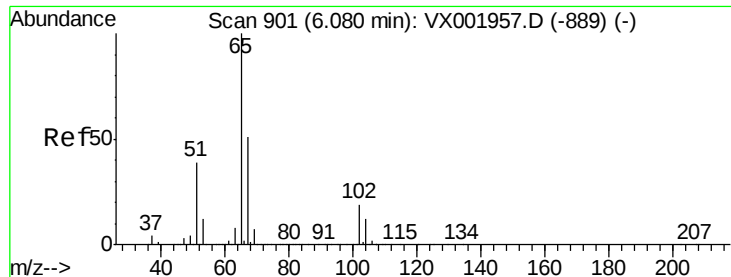
52 17.3 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 31.77 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

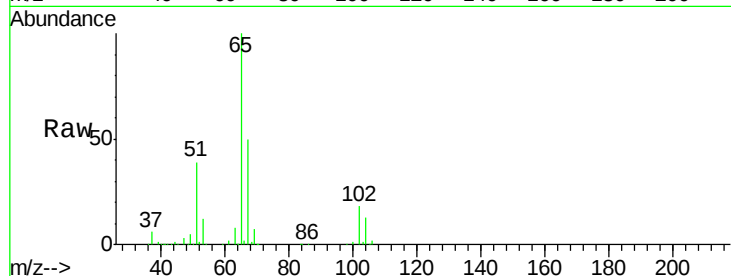
002M-35TH-AVE(JUNE)

Tot Ion: 65 Resp: 96398

Ion Ratio Lower Upper

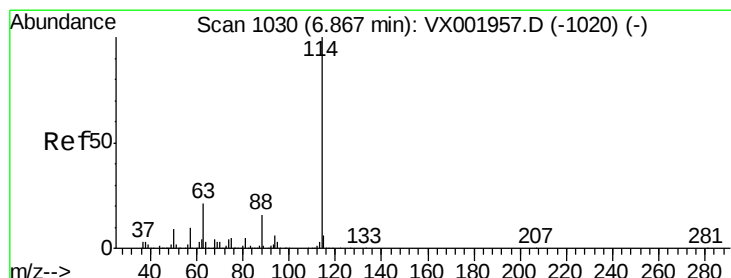
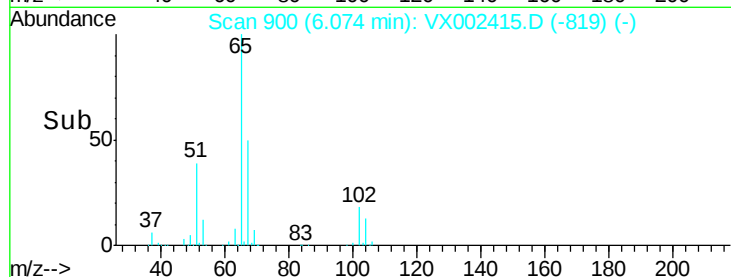
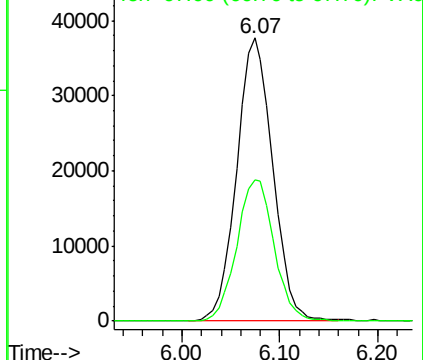
65 100

67 51.9 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

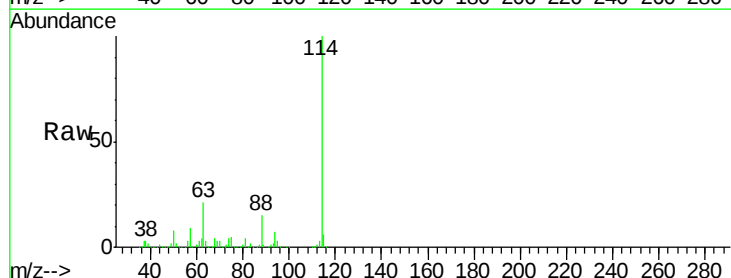
Tgt Ion: 114 Resp: 223988

Ion Ratio Lower Upper

114 100

63 20.9 17.1 25.7

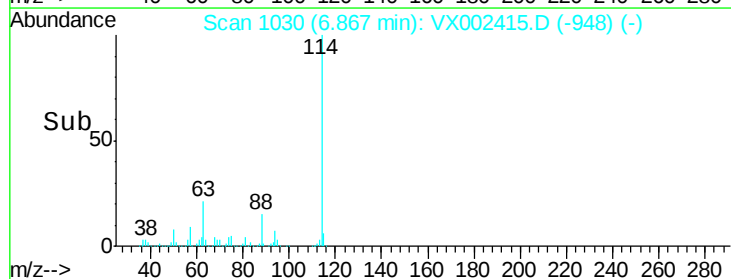
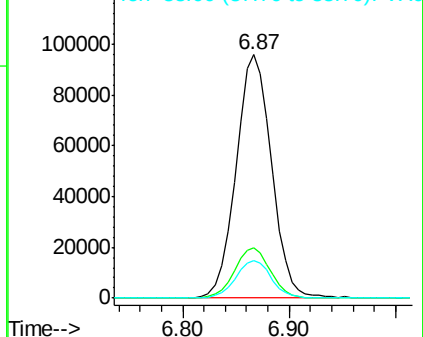
88 15.4 12.6 19.0

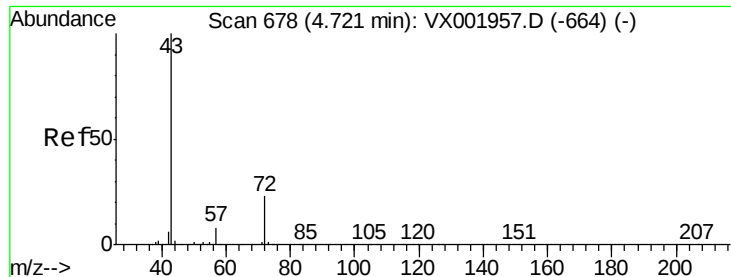


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

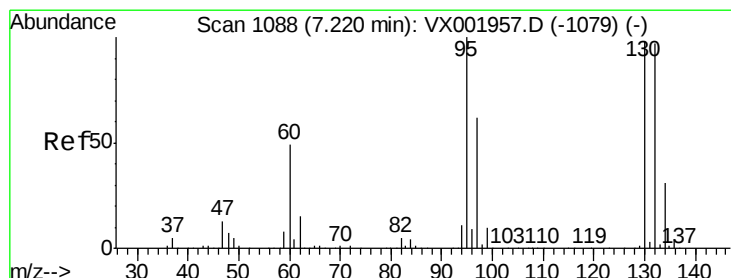
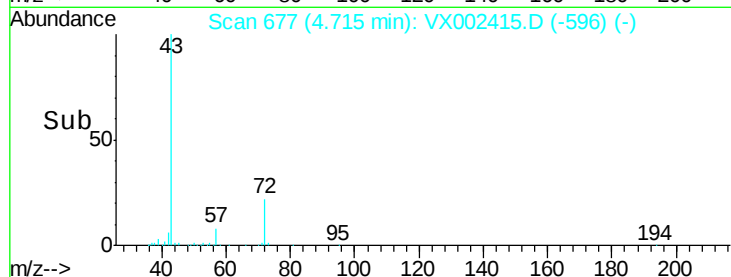
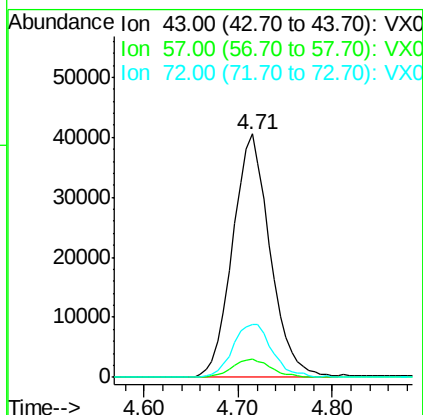
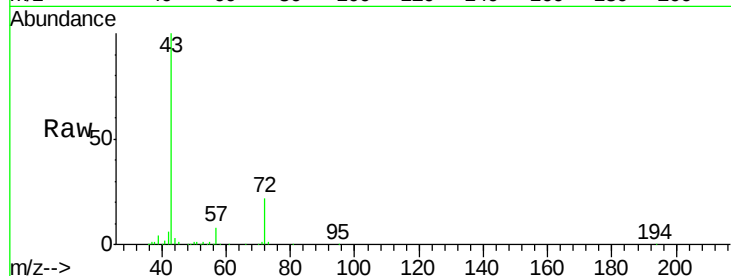




#30
2-Butanone
Concen: 51.19 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.01 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

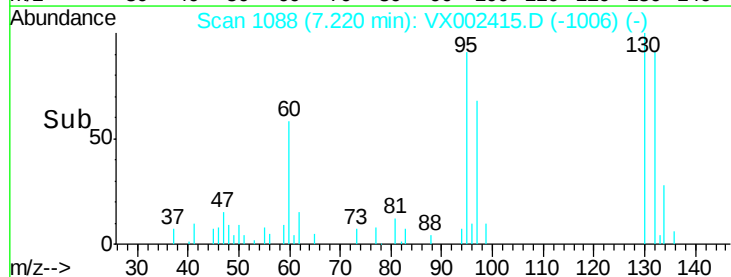
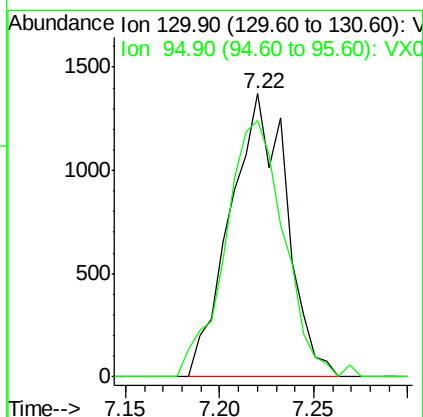
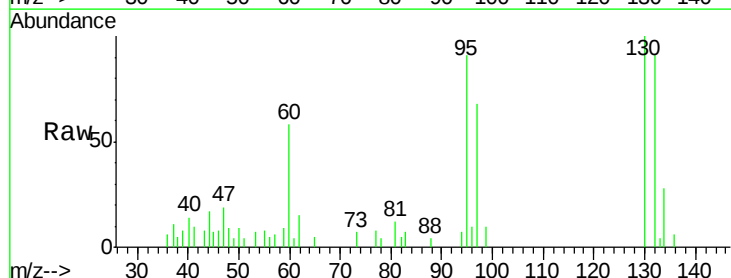
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

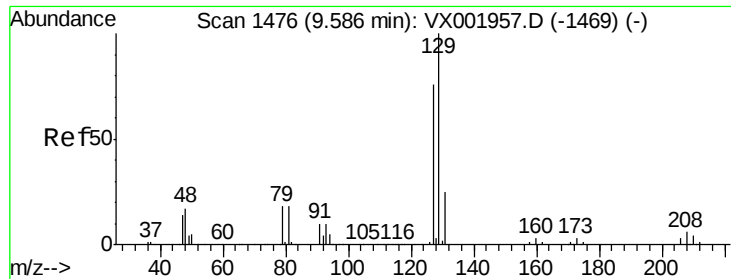
Tot Ion: 43 Resp: 111906
Ion Ratio Lower Upper
43 100
57 7.8 6.1 9.1
72 23.2 18.1 27.1



#37
Trichloroethene
Concen: 1.06 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion:130 Resp: 2846
Ion Ratio Lower Upper
130 100
95 90.8 81.5 122.3





#53

Dibromochloromethane

Concen: 0.41 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

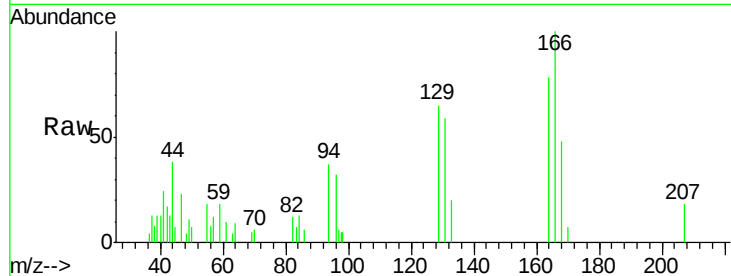
002M-35TH-AVE(JUNE)

Tot Ion:129 Resp: 1241

Ion Ratio Lower Upper

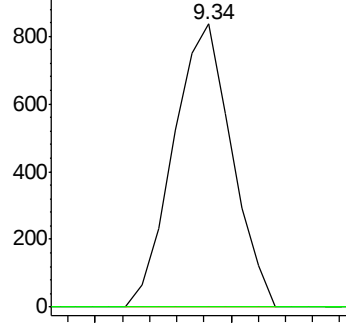
129 100

127 0.0 38.5 115.3#

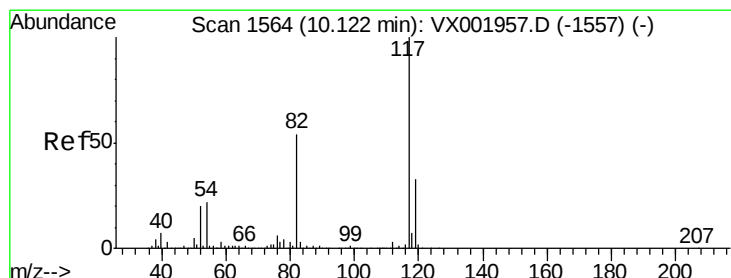
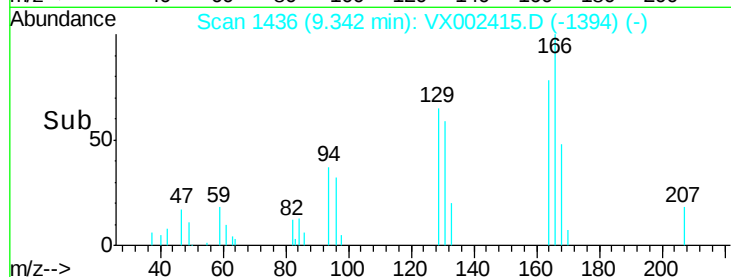


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

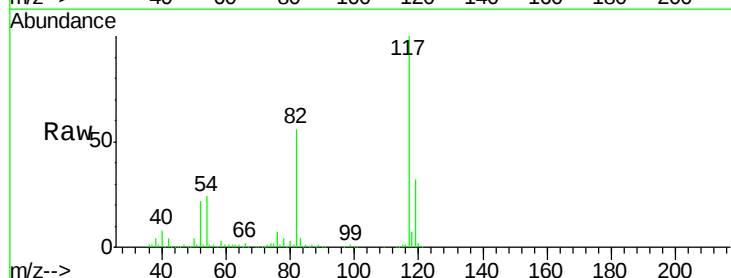
Tgt Ion:117 Resp: 206297

Ion Ratio Lower Upper

117 100

82 55.0 44.3 66.5

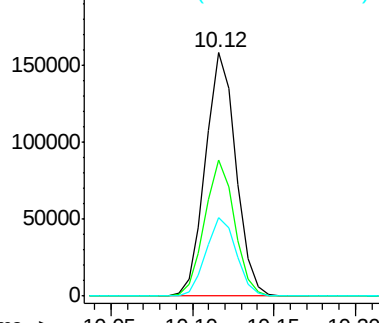
119 32.3 25.7 38.5



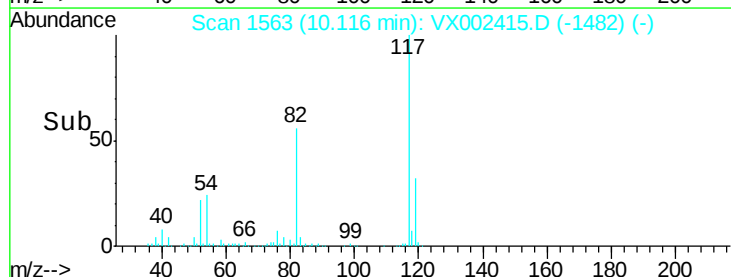
Abundance Ion 117.00 (116.70 to 117.70): V

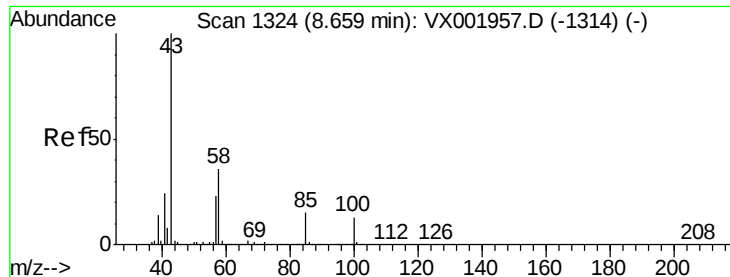
Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V



Time-->

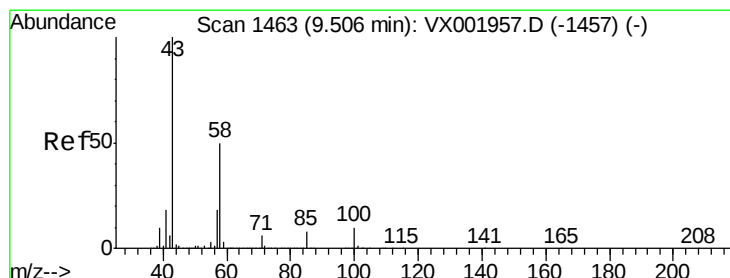
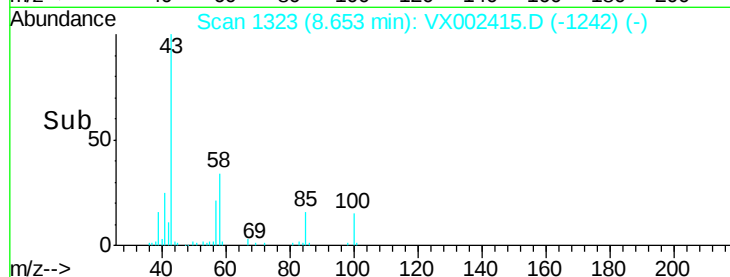
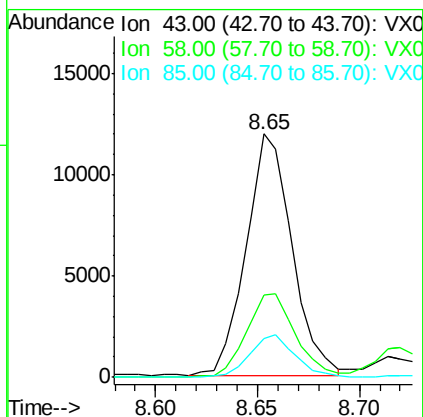
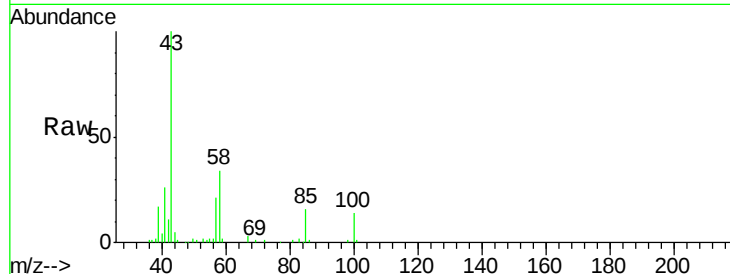




#58
4-Methyl-2-Pentanone
Concen: 4.14 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

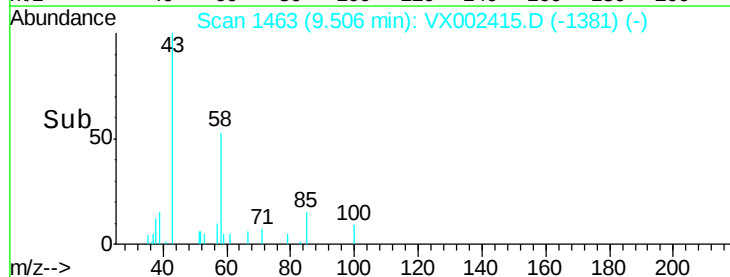
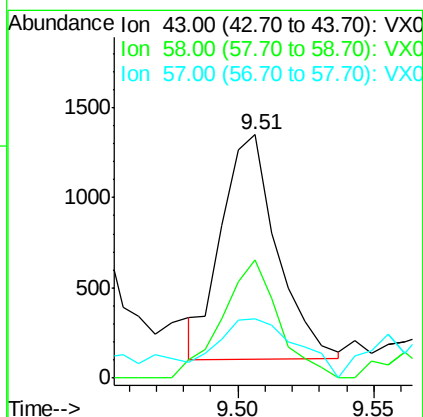
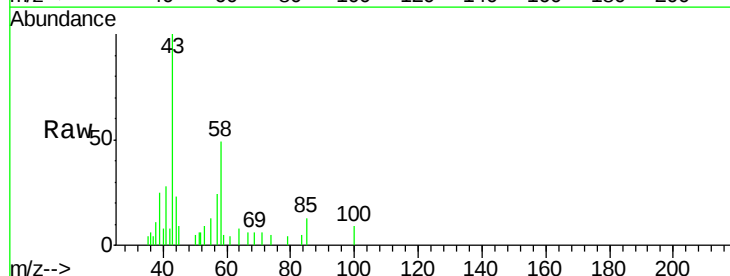
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

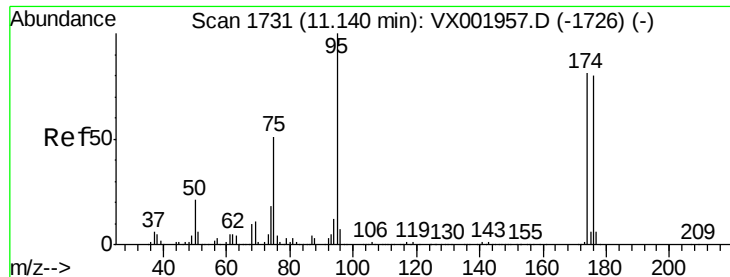
Tot Ion	Ratio	Lower	Upper
43	100		
58	37.4	28.2	42.4
85	17.3	12.4	18.6



#59
2-Hexanone
Concen: 0.50 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	53.2	39.6	59.4
57	37.6	14.1	21.1#

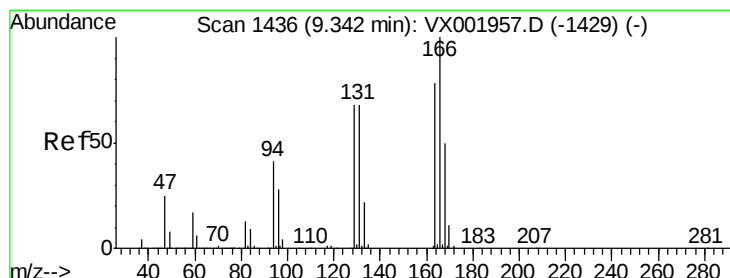
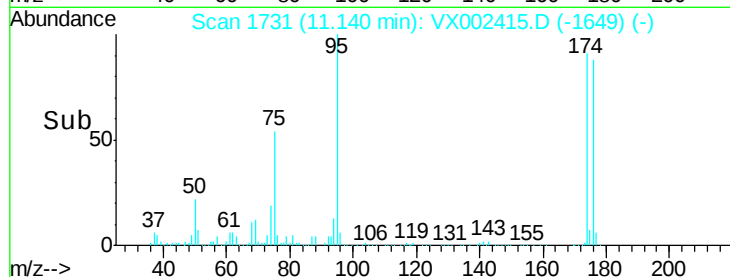
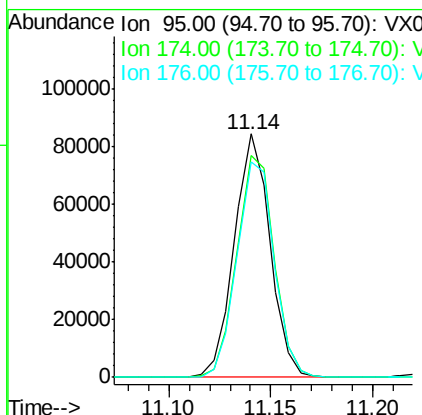
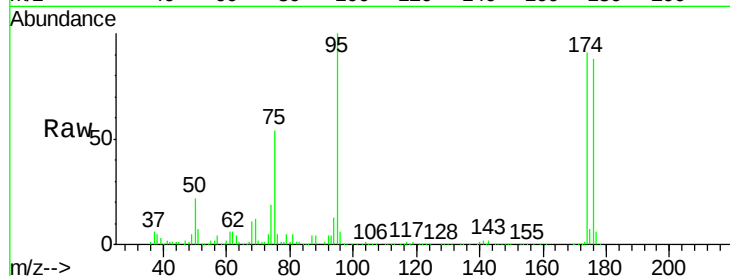




#60
4-Bromofluorobenzene
Concen: 28.87 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

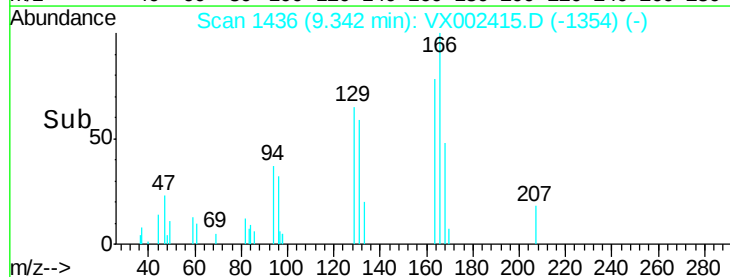
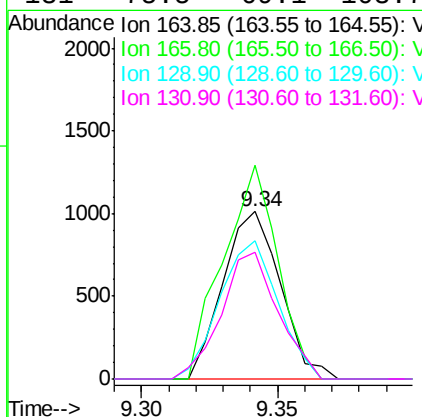
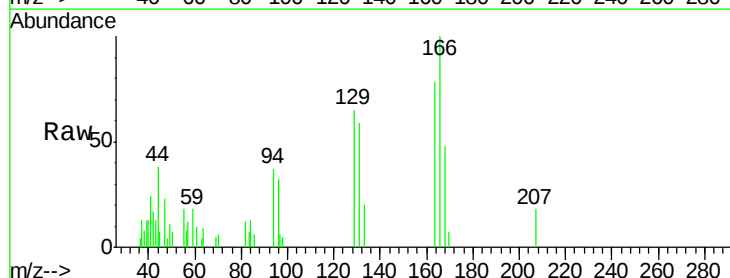
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

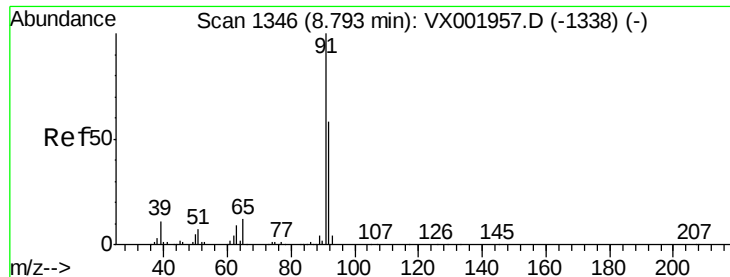
Tot Ion: 95 Resp: 101950
Ion Ratio Lower Upper
95 100
174 95.7 71.8 107.6
176 92.9 70.1 105.1



#61
Tetrachloroethene
Concen: 0.47 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion: 164 Resp: 1483
Ion Ratio Lower Upper
164 100
166 127.8 102.4 153.6
129 82.8 70.1 105.1
131 75.5 69.1 103.7





#62

Toluene

Concen: 45.45 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

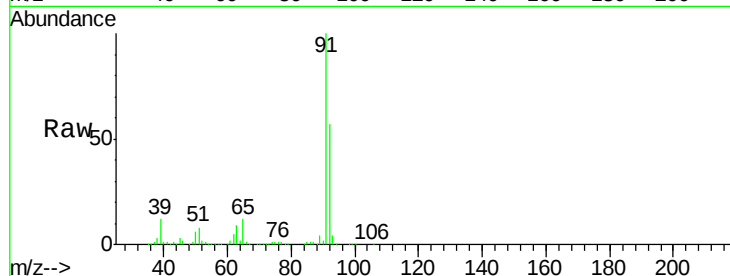
002M-35TH-AVE(JUNE)

Tot Ion: 91 Resp: 478835

Ion Ratio Lower Upper

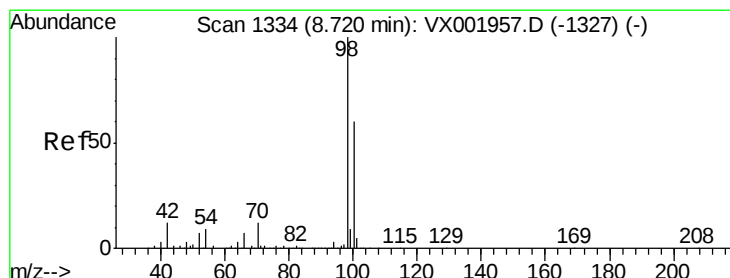
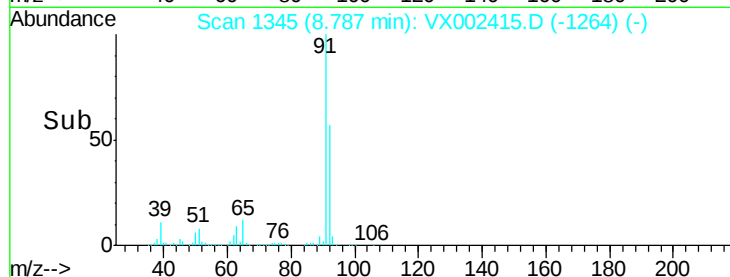
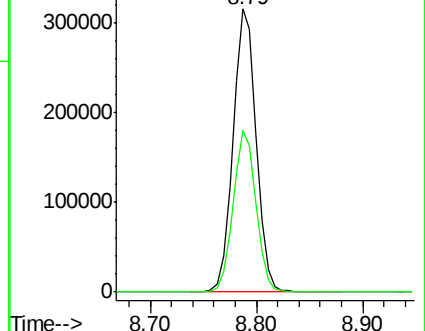
91 100

92 56.5 46.5 69.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 28.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002415.D

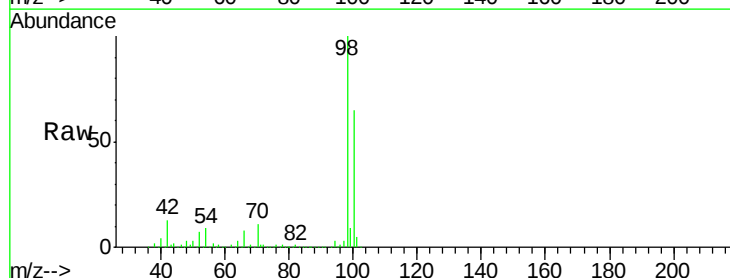
Acq: 08 Jun 2018 21:10

Tgt Ion: 98 Resp: 262254

Ion Ratio Lower Upper

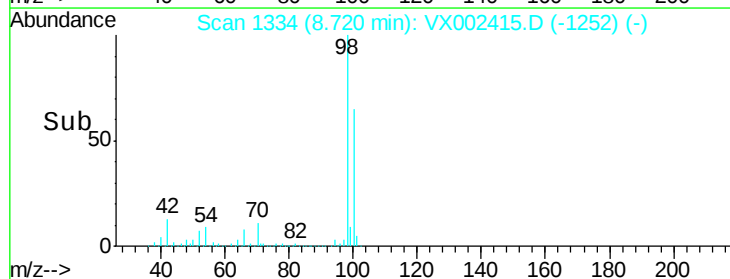
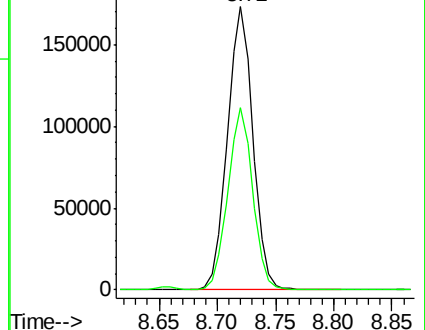
98 100

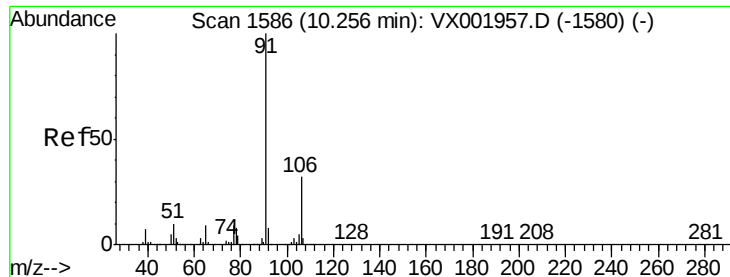
100 63.0 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#66

Ethyl Benzene

Concen: 0.27 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX002415.D

Acq: 08 Jun 2018 21:10

Instrument :

MSVOA_X

ClientSampleId :

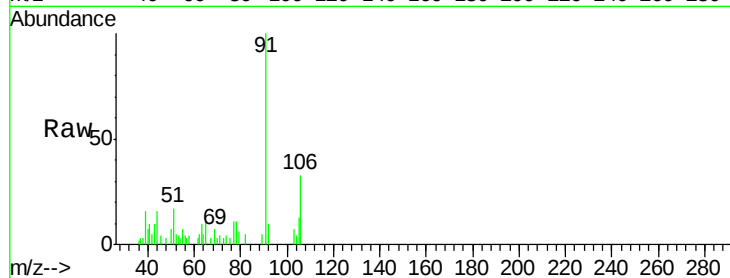
002M-35TH-AVE(JUNE)

Tot Ion: 91 Resp: 3158

Ion Ratio Lower Upper

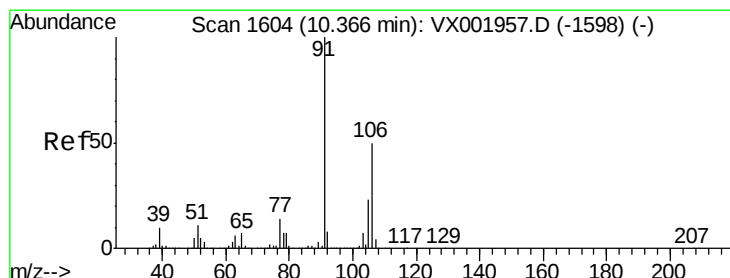
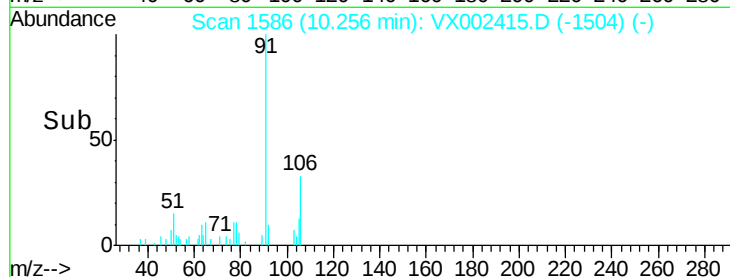
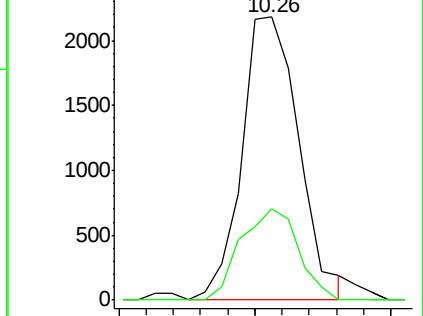
91 100

106 32.5 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#67

m/p-Xylenes

Concen: 0.41 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VX002415.D

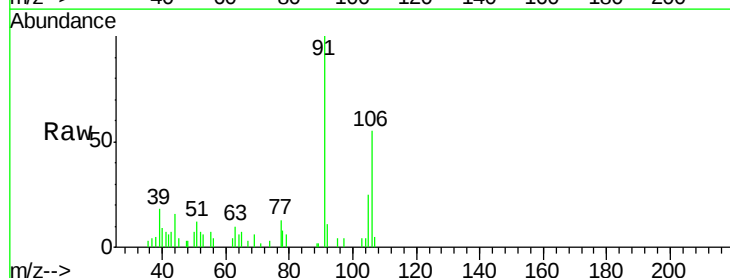
Acq: 08 Jun 2018 21:10

Tgt Ion: 106 Resp: 1838

Ion Ratio Lower Upper

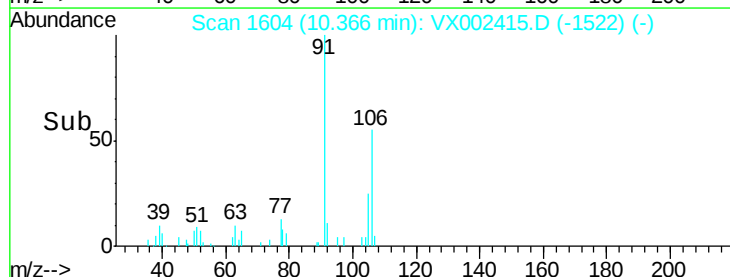
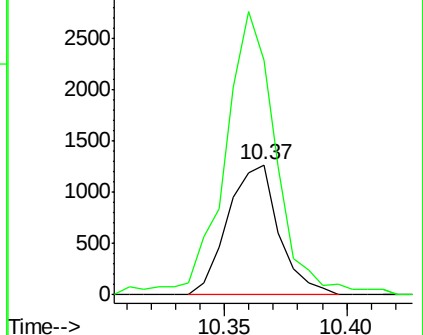
106 100

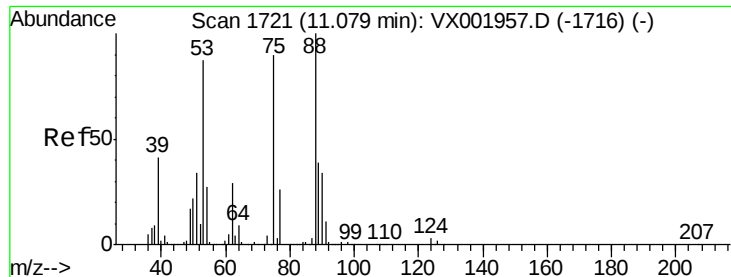
91 212.2 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

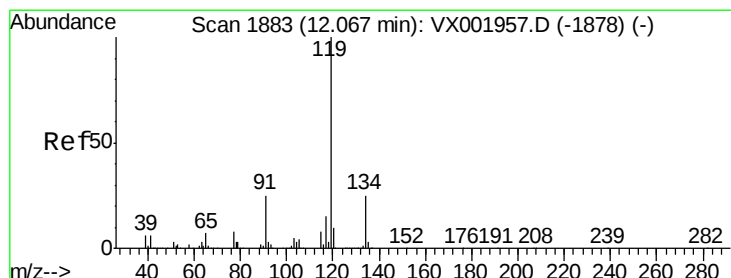
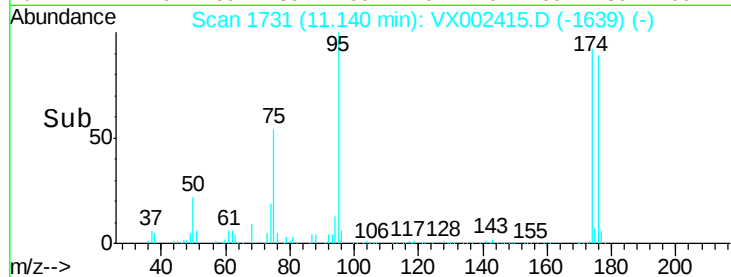
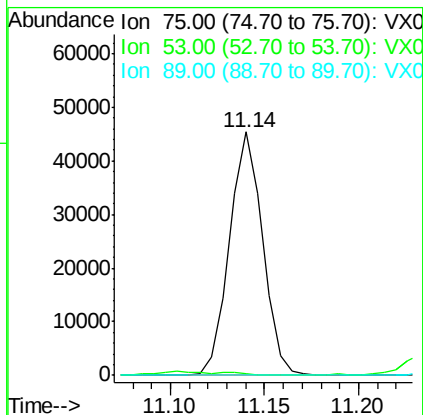
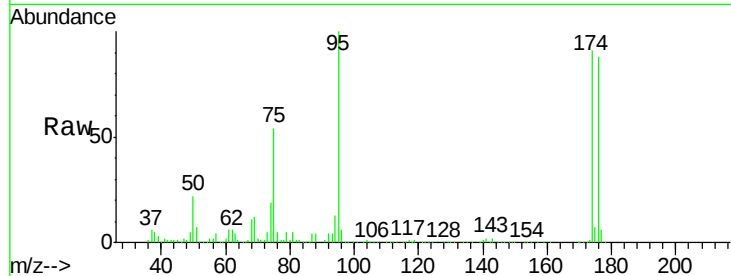




#77
t-1,4-Dichloro-2-butene
Concen: 42.99 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

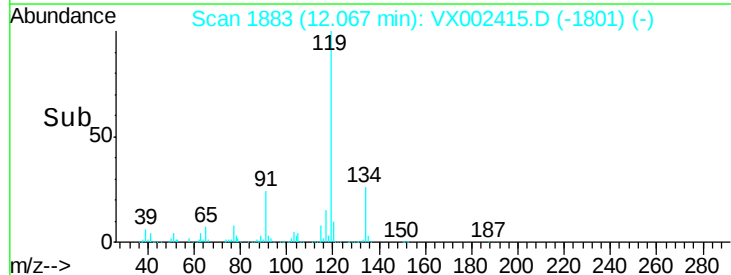
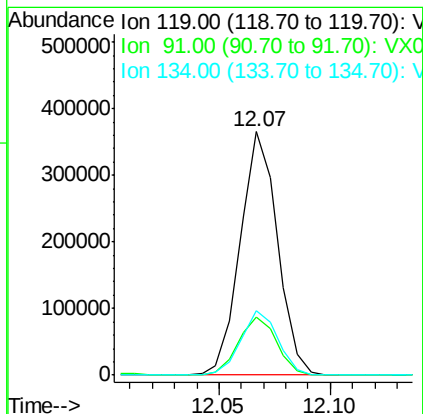
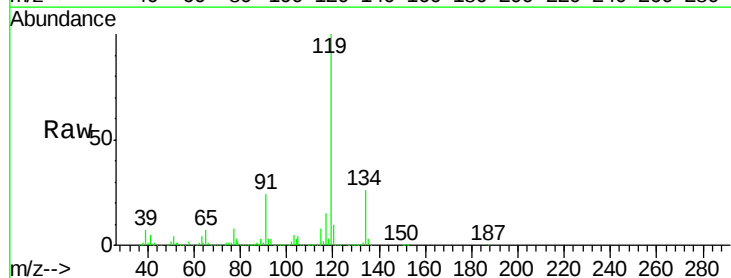
Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

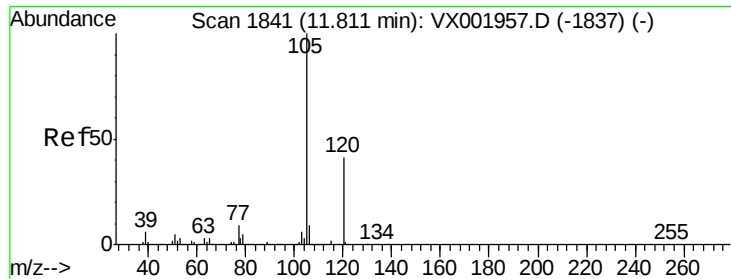
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.3	48.3	144.9#
89	0.0	21.8	65.4#



#79
tert-butylbenzene
Concen: 39.69 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion	Ratio	Lower	Upper
119	100		
91	24.6	0.0	48.0
134	26.6	0.0	52.6

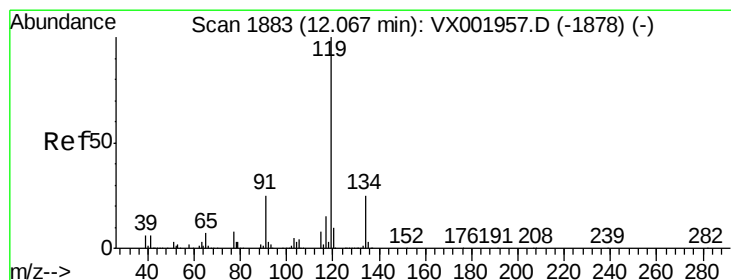
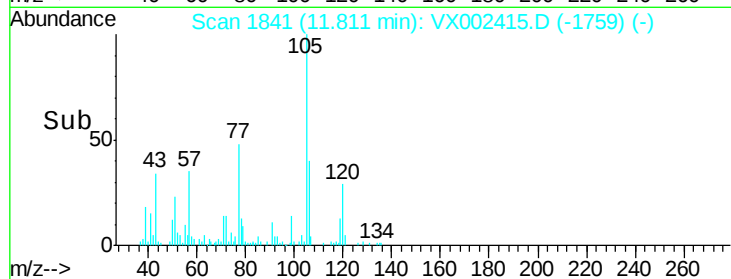
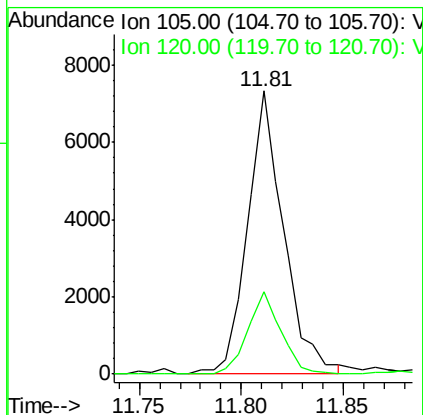
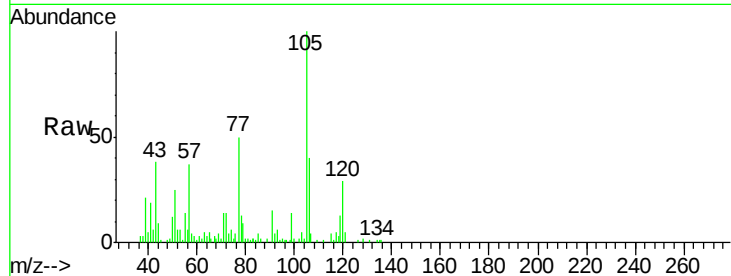




#80
 1,2,4-Trimethylbenzene
 Concen: 0.87 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX002415.D
 Acq: 08 Jun 2018 21:10

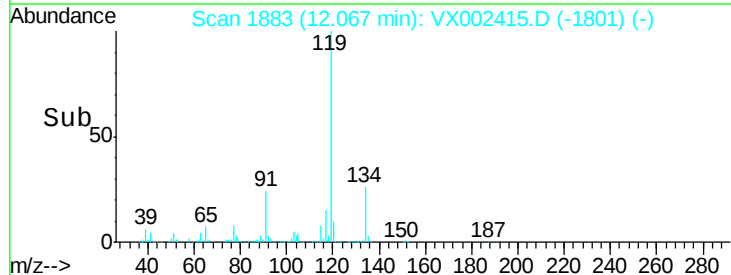
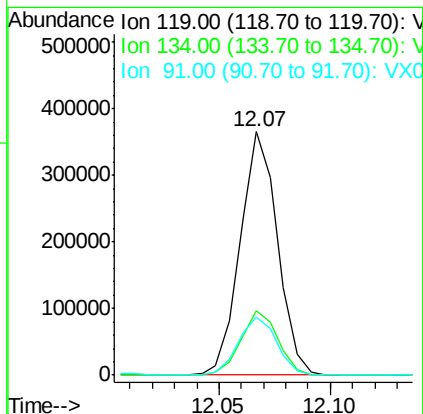
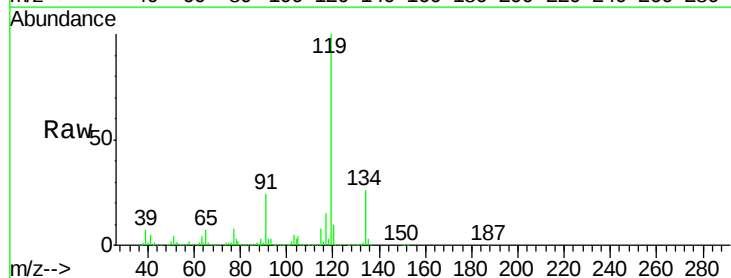
Instrument :
 MSVOA_X
 ClientSampleId :
 002M-35TH-AVE(JUNE)

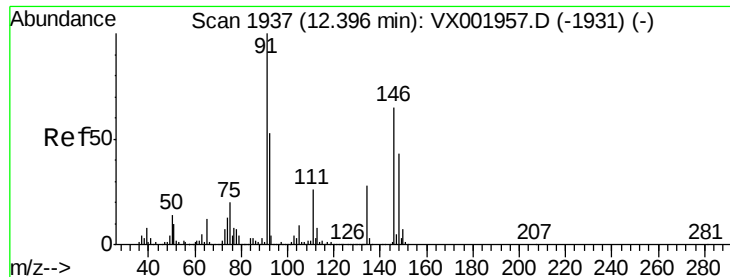
Tot Ion:105 Resp: 9047
 Ion Ratio Lower Upper
 105 100
 120 26.7 0.0 89.2



#82
 p-Isopropyltoluene
 Concen: 39.69 ug/l
 RT: 12.07 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VX002415.D
 Acq: 08 Jun 2018 21:10

Tgt Ion:119 Resp: 426446
 Ion Ratio Lower Upper
 119 100
 134 26.6 0.0 52.6
 91 24.6 0.0 48.0

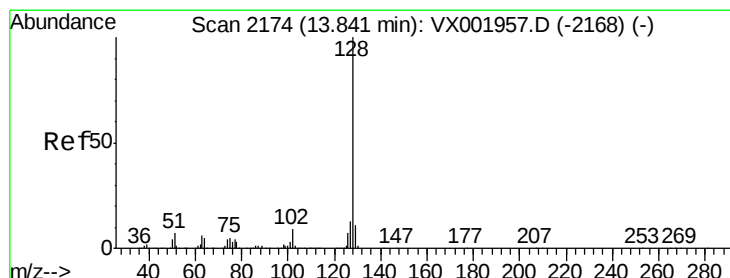
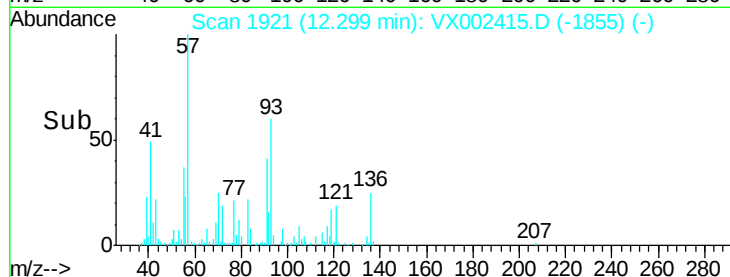
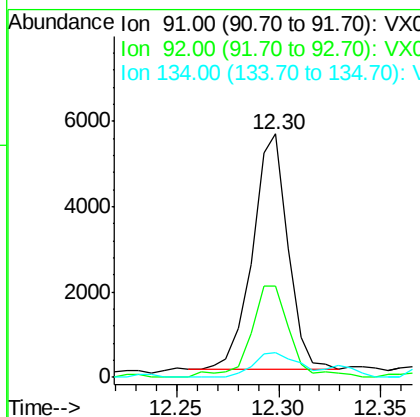
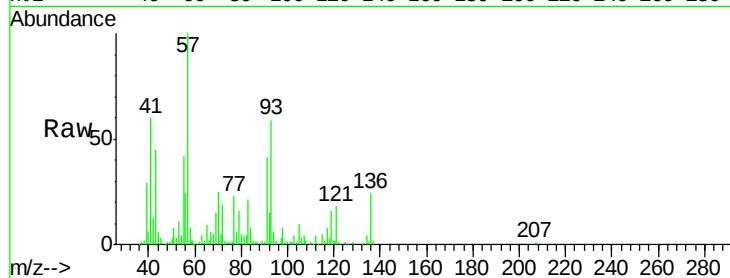




#85
n-Butylbenzene
Concen: 0.74 ug/l
RT: 12.30 min Scan# 1921
Delta R.T. -0.10 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Instrument :
MSVOA_X
ClientSampleId :
002M-35TH-AVE(JUNE)

Tot Ion: 91 Resp: 6657
Ion Ratio Lower Upper
91 100
92 36.0 0.0 105.2
134 13.3 0.0 53.2



#91
Naphthalene
Concen: 0.52 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX002415.D
Acq: 08 Jun 2018 21:10

Tgt Ion: 128 Resp: 6901
Ion Ratio Lower Upper
128 100
127 14.9 10.3 15.5
129 14.9 8.9 13.3#

