

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082419\
 Data File : VX011819.D
 Acq On : 24 Aug 2019 15:28
 Operator : JC/SP
 Sample : K4090-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-082219

Quant Time: Aug 26 04:09:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	473255	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	634303	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	591977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	314060	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	212075	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	
35) Dibromofluoromethane	5.49	113	192896	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
50) Toluene-d8	8.71	98	730208	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	
62) 4-Bromofluorobenzene	11.13	95	271923	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	

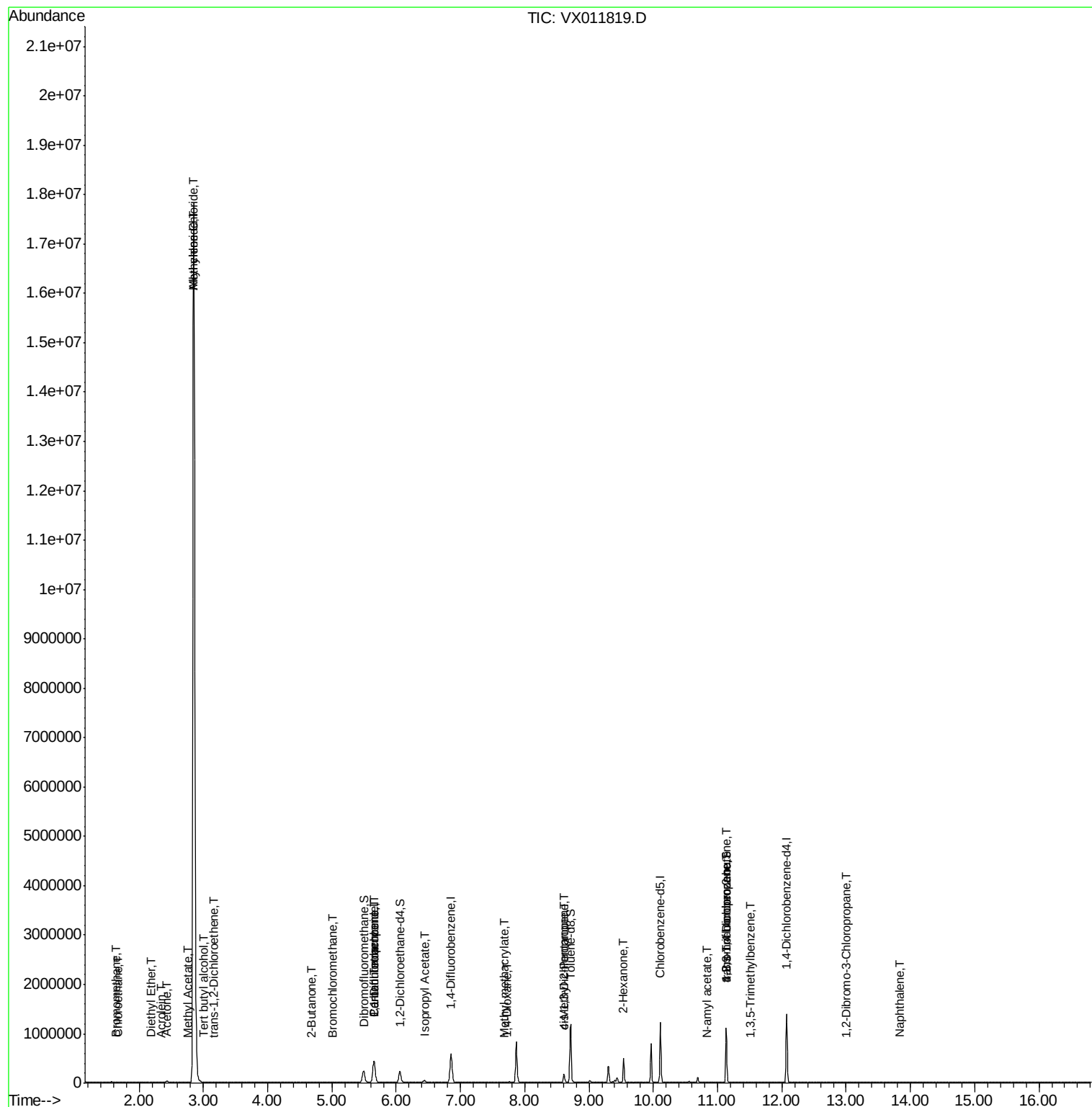
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	607	0.285	ug/l	87
6) Chloroethane	1.66	64	548	0.242	ug/l #	44
8) Diethyl Ether	2.19	74	1150	0.549	ug/l	86
11) Tert butyl alcohol	3.01	59	2314	2.463	ug/l #	88
13) Acrolein	2.34	56	418	1.151	ug/l #	16
14) Allyl chloride	2.85	41	336345	57.852	ug/l #	28
16) Acetone	2.43	43	35782	17.302	ug/l	95
18) Methyl Acetate	2.76	43	2526	0.450	ug/l #	88
20) Methylene Chloride	2.85	84	9464159	2238.404	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	855	0.213	ug/l #	64
25) 2-Butanone	4.68	43	1342	0.452	ug/l #	64
28) Bromochloromethane	5.01	49	2366	0.783	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	25399	5.106	ug/l #	52
38) Carbon Tetrachloride	5.65	117	38384	6.809	ug/l #	16
43) Isopropyl Acetate	6.44	43	54241	6.367	ug/l	96
48) Methyl methacrylate	7.68	41	3722	0.878	ug/l #	16
49) 1,4-Dioxane	7.73	88	151	1.285	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	58600	10.439	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	28324	4.818	ug/l #	60
59) 2-Hexanone	9.54	43	56414	13.093	ug/l #	52
74) N-amyl acetate	10.83	43	2808	0.383	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	123942	22.491	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.50	105	3657	0.232	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.13	75	123942	67.828	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.00	75	329	0.226	ug/l #	6
95) Naphthalene	13.83	128	8318	0.424	ug/l #	92

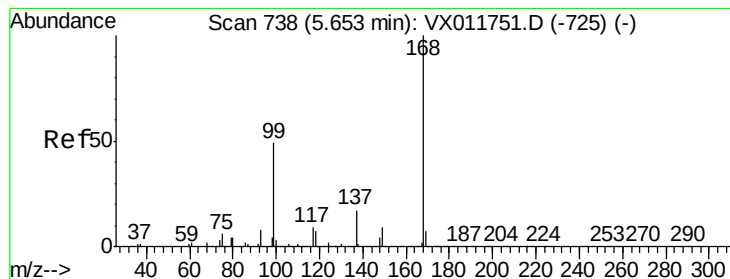
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

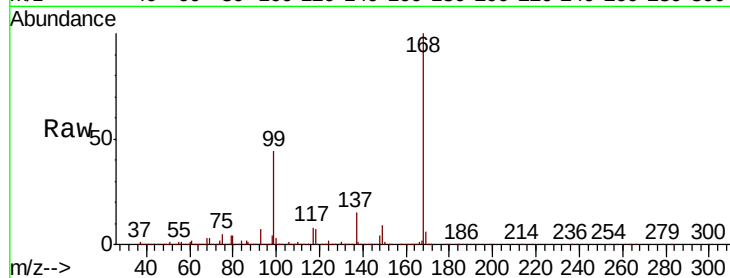
OR-03-082219

Tgt Ion:168 Resp: 473255

Ion Ratio Lower Upper

168 100

99 44.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

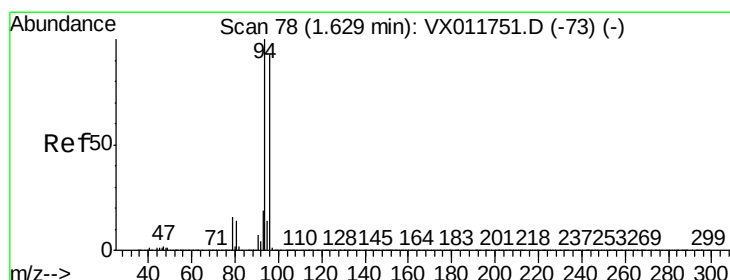
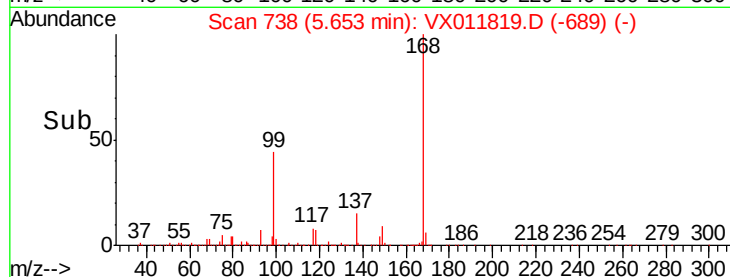
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.285 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011819.D

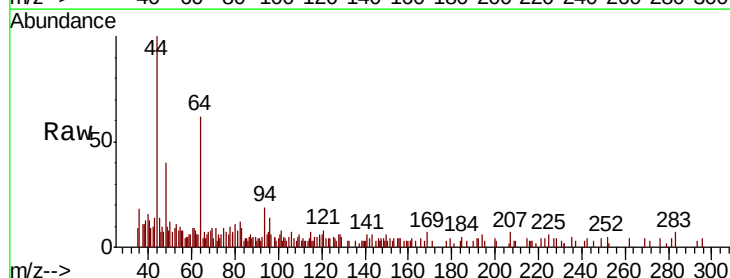
Acq: 24 Aug 2019 15:28

Tgt Ion: 94 Resp: 607

Ion Ratio Lower Upper

94 100

96 80.0 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

200

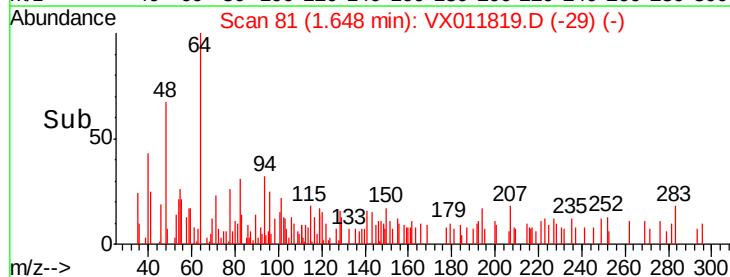
100

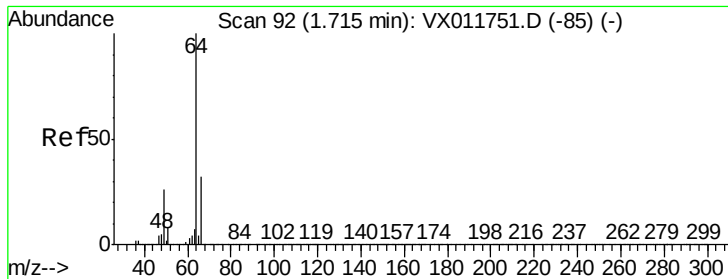
0

1.65

1.70

Time-->





#6

Chloroethane

Concen: 0.242 ug/l

RT: 1.66 min Scan# 83

Delta R.T. -0.06 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

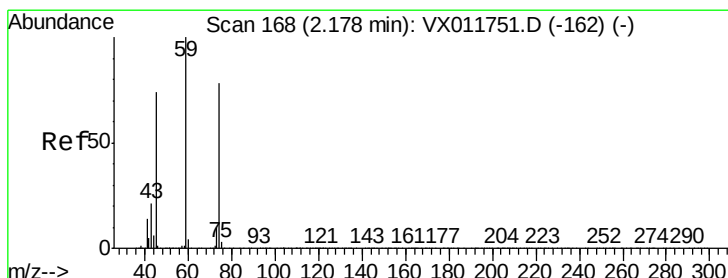
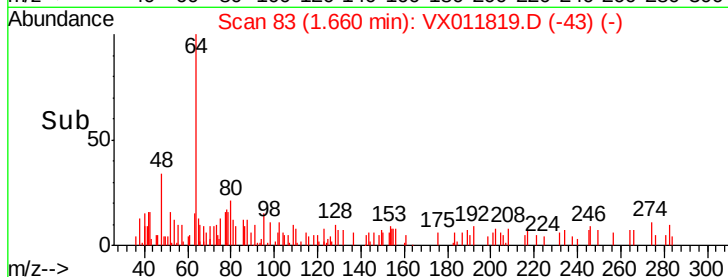
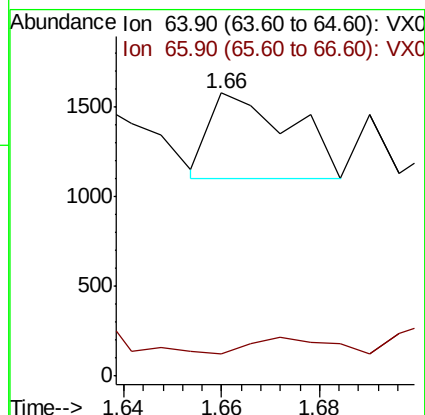
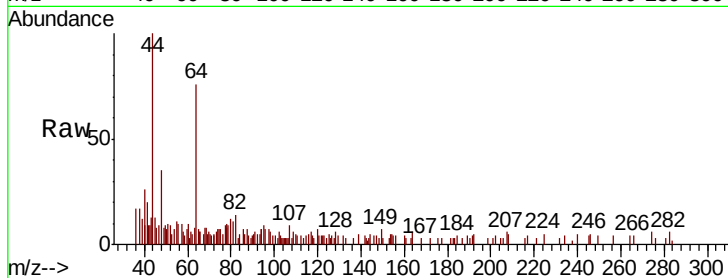
OR-03-082219

Tgt Ion: 64 Resp: 548

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: 0.549 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX011819.D

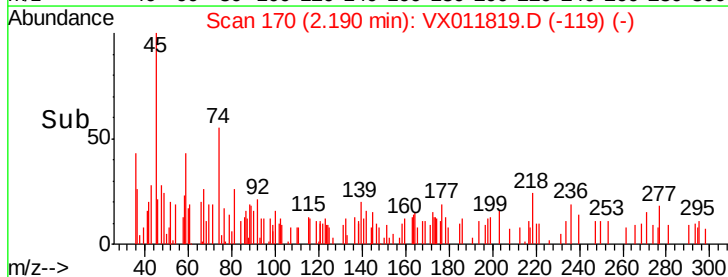
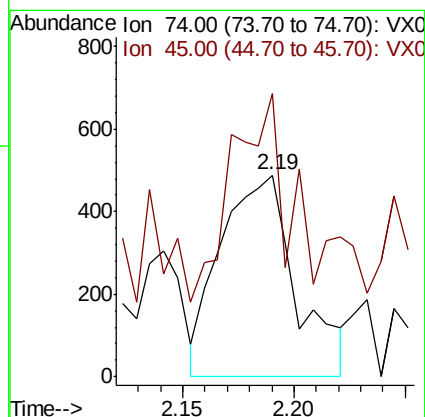
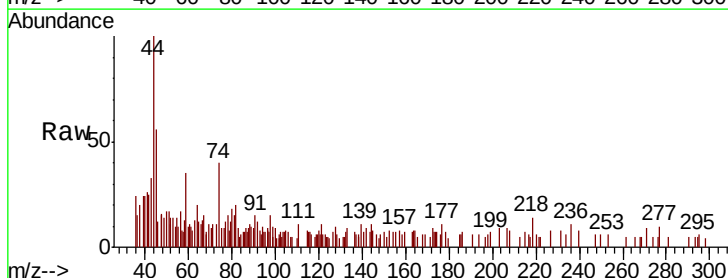
Acq: 24 Aug 2019 15:28

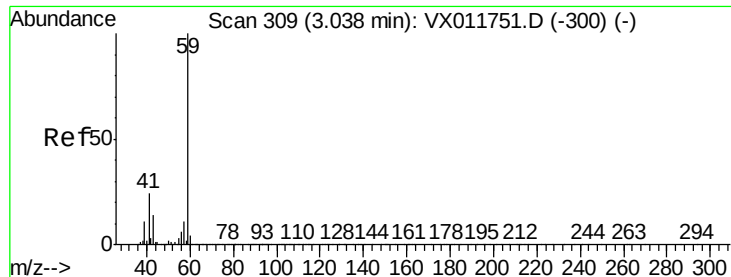
Tgt Ion: 74 Resp: 1150

Ion Ratio Lower Upper

74 100

45 79.5 46.7 140.0





#11

Tert butyl alcohol

Concen: 2.463 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

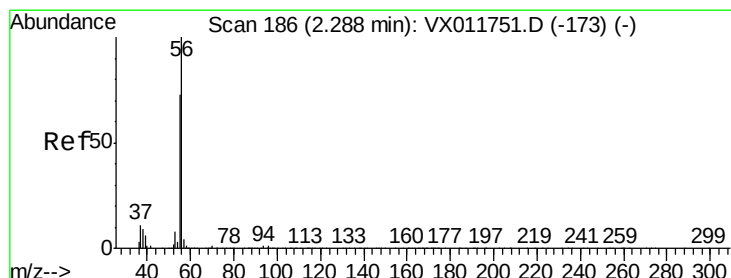
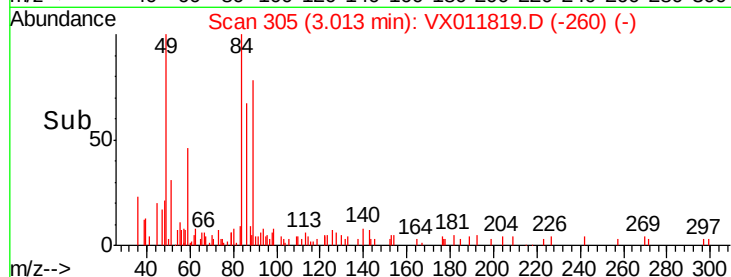
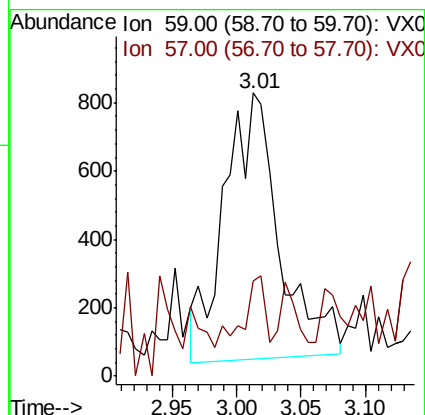
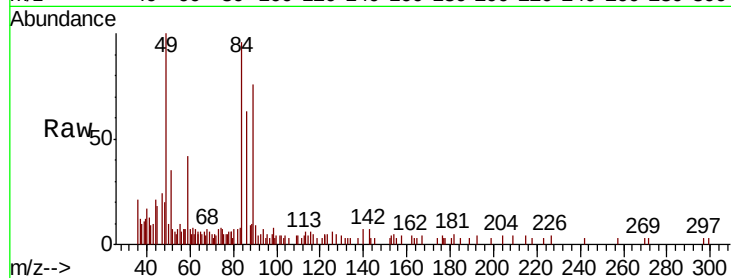
OR-03-082219

Tgt Ion: 59 Resp: 2314

Ion Ratio Lower Upper

59 100

57 14.9 8.4 12.6#



#13

Acrolein

Concen: 1.151 ug/l

RT: 2.34 min Scan# 195

Delta R.T. 0.05 min

Lab File: VX011819.D

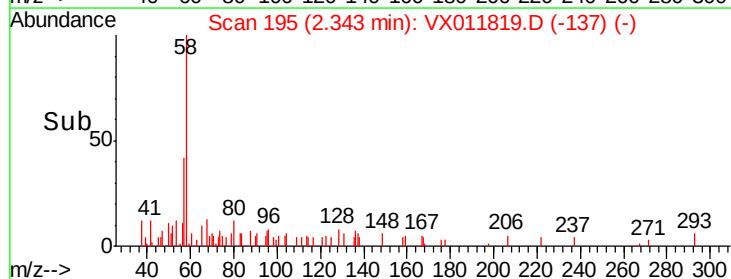
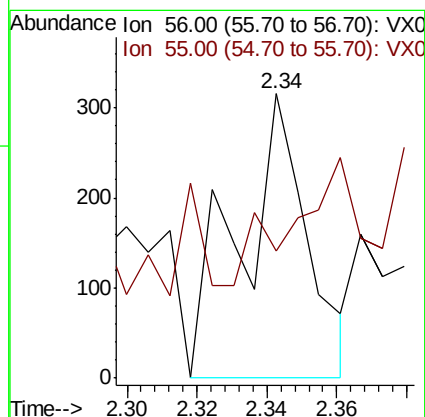
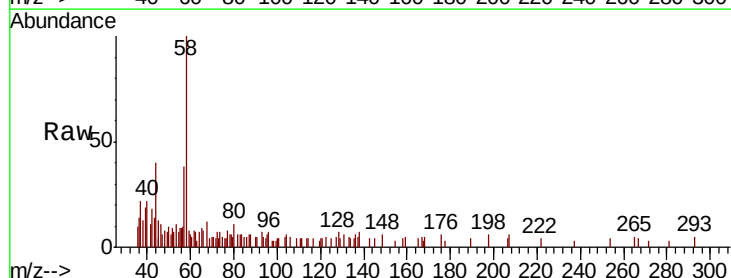
Acq: 24 Aug 2019 15:28

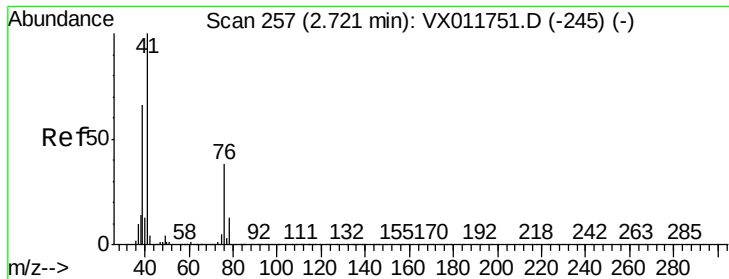
Tgt Ion: 56 Resp: 418

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#

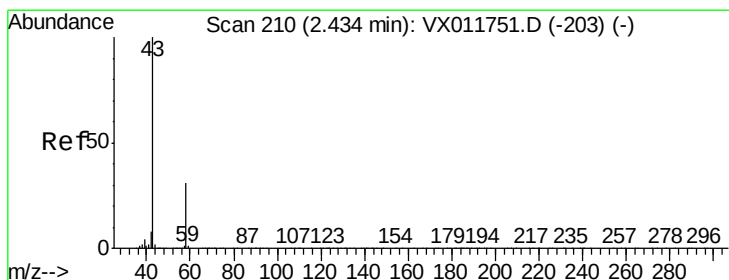
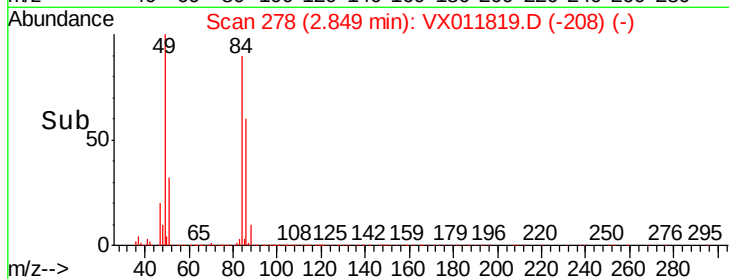
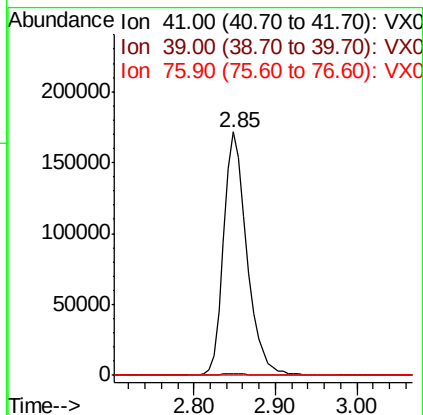
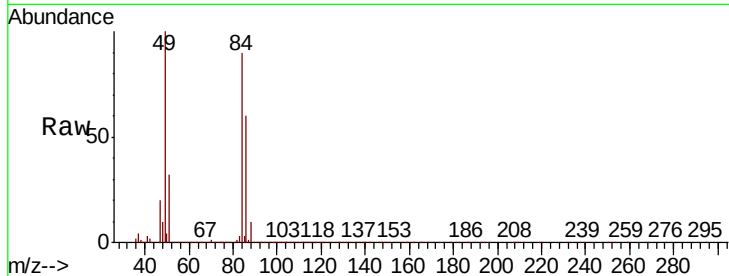




#14
 Allyl chloride
 Concen: 57.852 ug/l
 RT: 2.85 min Scan# 278
 Delta R.T. 0.13 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

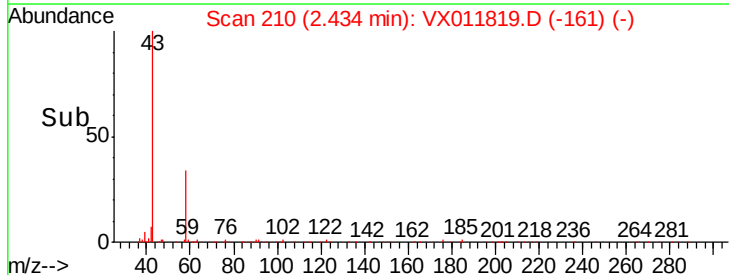
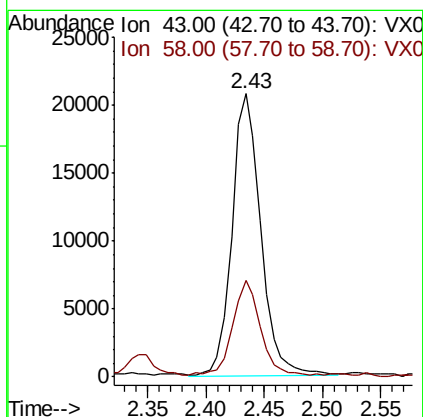
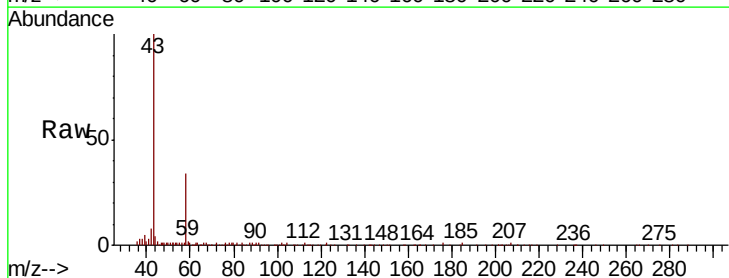
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-082219

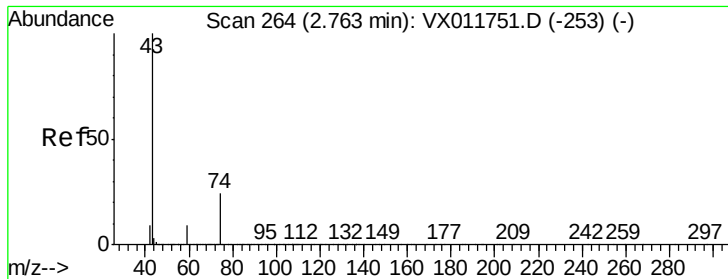
Tgt Ion: 41 Resp: 336345
 Ion Ratio Lower Upper
 41 100
 39 1.2 49.3 73.9#
 76 0.1 26.8 40.2#



#16
 Acetone
 Concen: 17.302 ug/l
 RT: 2.43 min Scan# 210
 Delta R.T. -0.00 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

Tgt Ion: 43 Resp: 35782
 Ion Ratio Lower Upper
 43 100
 58 33.4 24.4 36.6

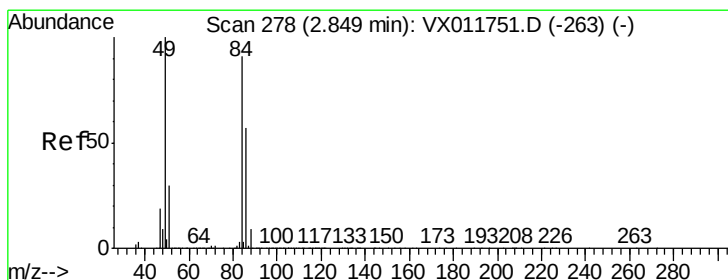
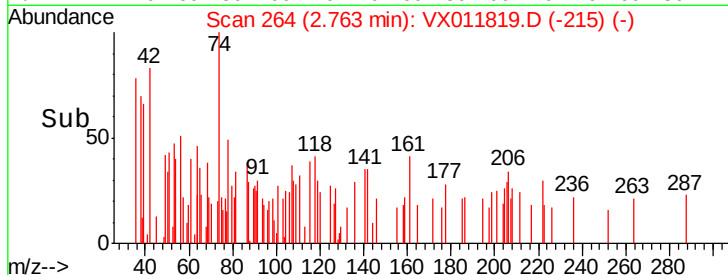
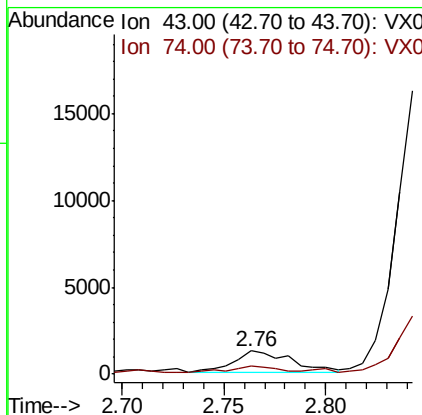
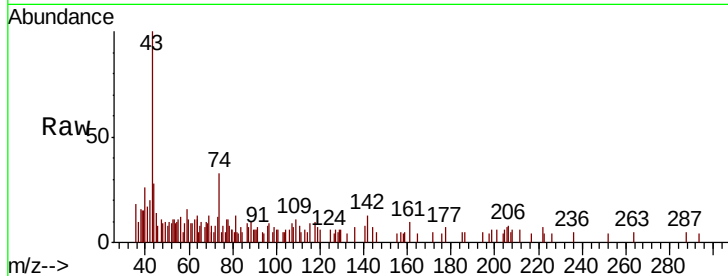




#18
Methyl Acetate
Concen: 0.450 ug/l
RT: 2.76 min Scan# 264
Delta R.T. -0.00 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

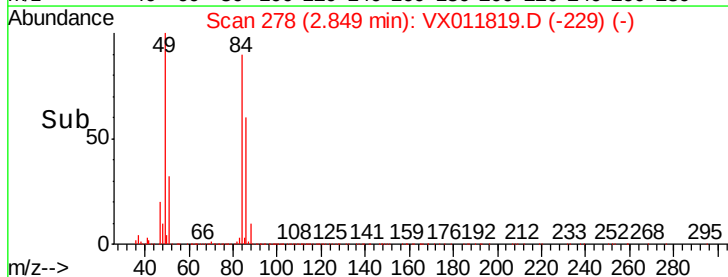
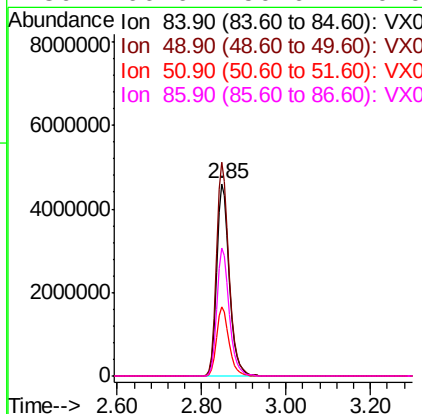
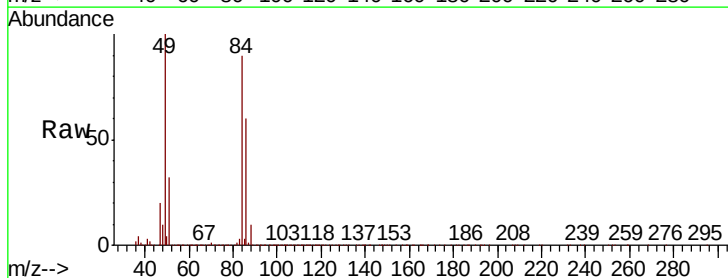
Instrument :
MSVOA_X
ClientSampleId :
OR-03-082219

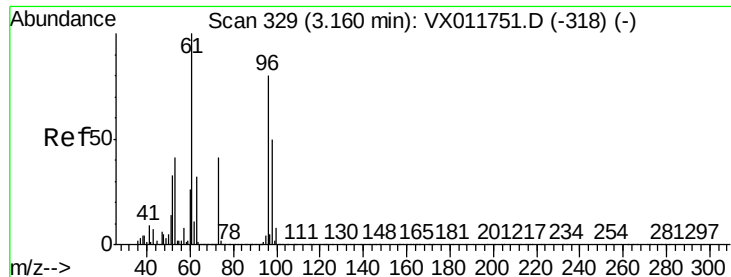
Tgt Ion: 43 Resp: 2526
Ion Ratio Lower Upper
43 100
74 30.2 19.5 29.3#



#20
Methylene Chloride
Concen: 2238.404 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

Tgt Ion: 84 Resp: 9464159
Ion Ratio Lower Upper
84 100
49 111.2 88.3 132.5
51 36.1 26.2 39.2
86 66.6 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 0.213 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

OR-03-082219

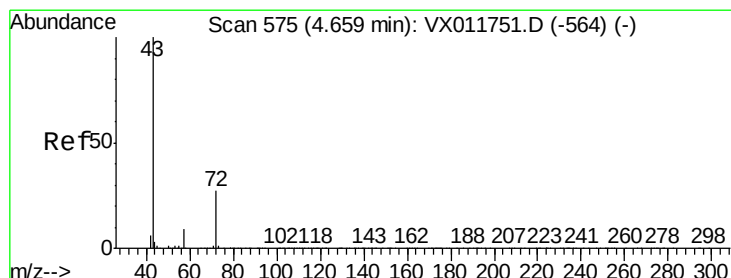
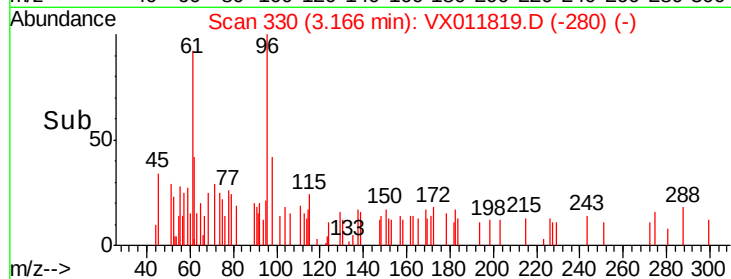
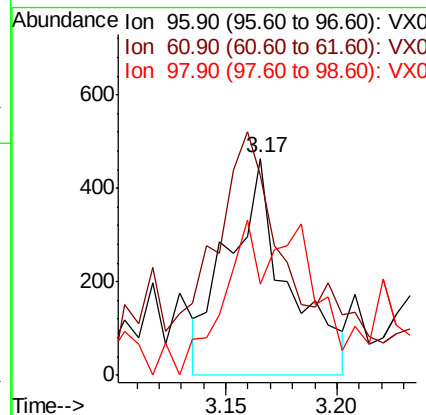
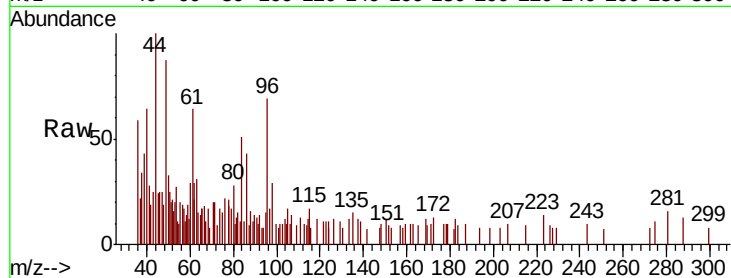
Tgt Ion: 96 Resp: 855

Ion Ratio Lower Upper

96 100

61 80.5 99.8 149.8#

98 38.6 50.3 75.5#



#25

2-Butanone

Concen: 0.452 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.02 min

Lab File: VX011819.D

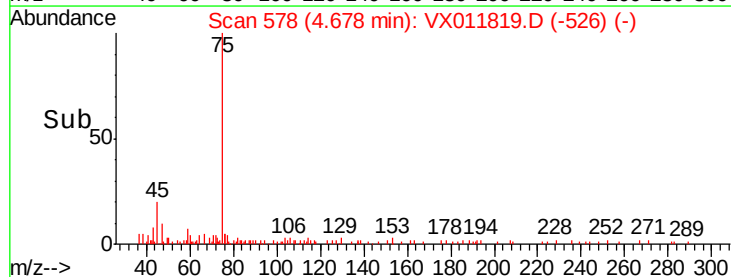
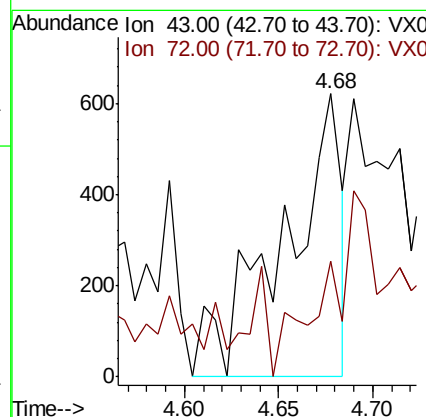
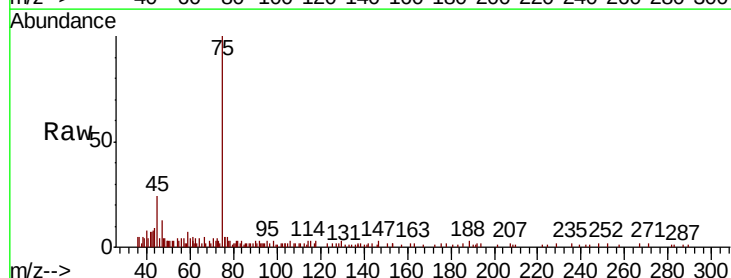
Acq: 24 Aug 2019 15:28

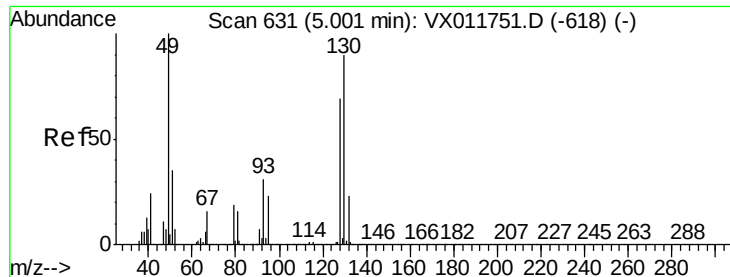
Tgt Ion: 43 Resp: 1342

Ion Ratio Lower Upper

43 100

72 46.0 21.8 32.6#





#28

Bromochloromethane

Concen: 0.783 ug/l

RT: 5.01 min Scan# 633

Delta R.T. 0.01 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

OR-03-082219

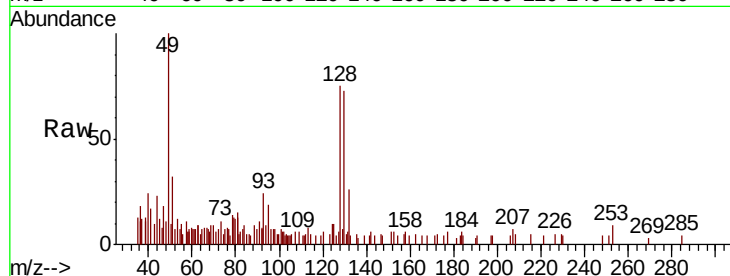
Tgt Ion: 49 Resp: 2366

Ion Ratio Lower Upper

49 100

129 4.8 0.0 5.8

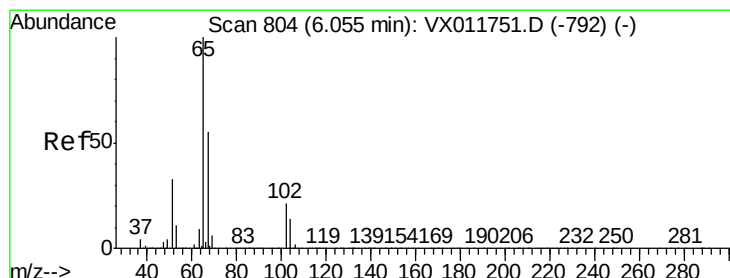
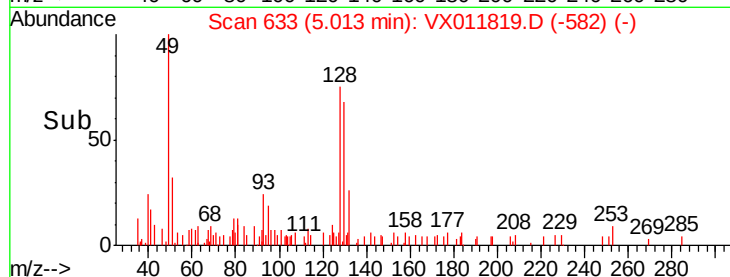
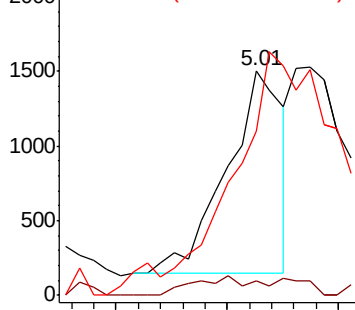
130 270.5 76.8 115.2#



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



#33

1,2-Dichloroethane-d4

Concen: 44.609 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011819.D

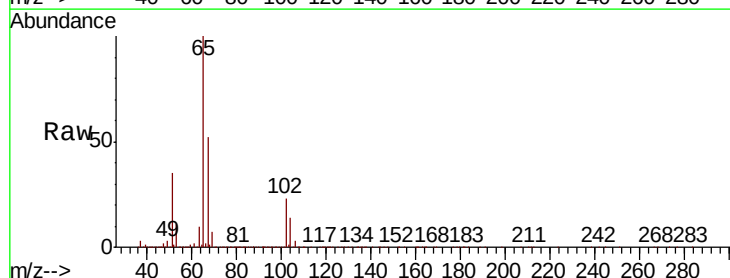
Acq: 24 Aug 2019 15:28

Tgt Ion: 65 Resp: 212075

Ion Ratio Lower Upper

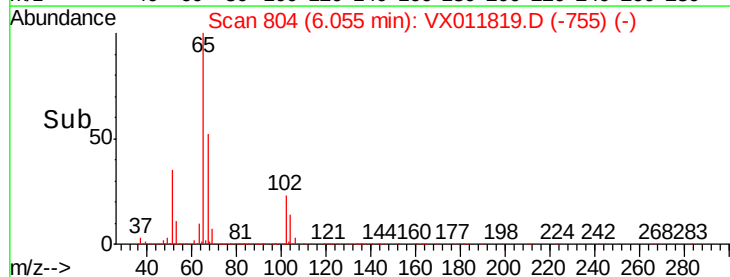
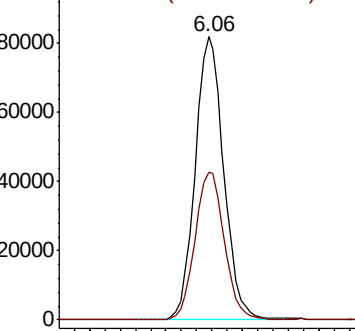
65 100

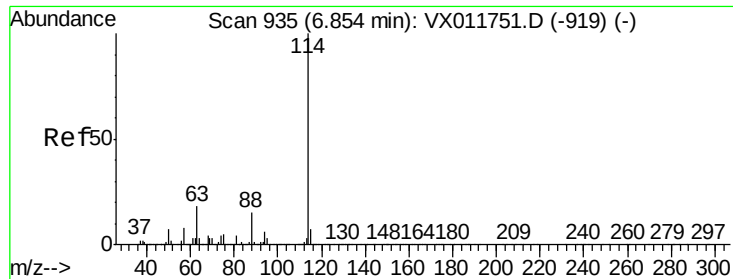
67 53.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

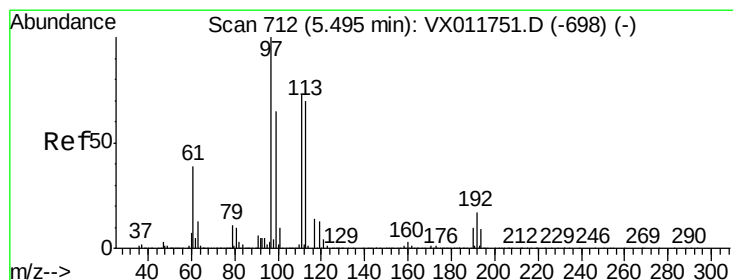
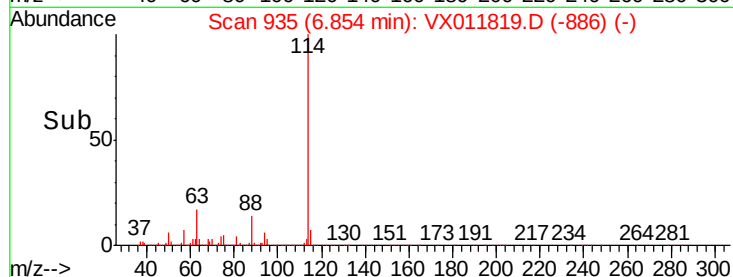
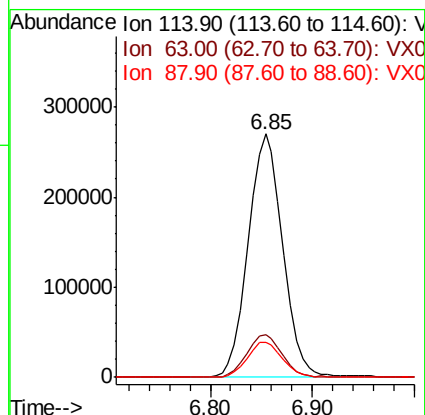
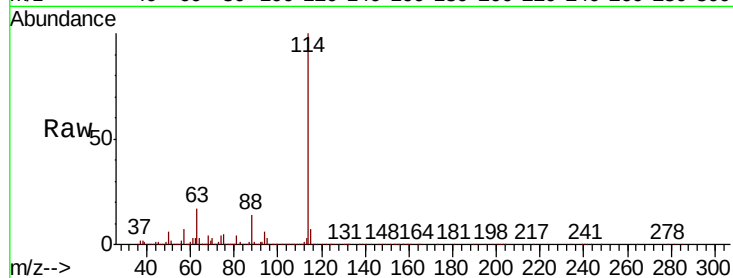




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

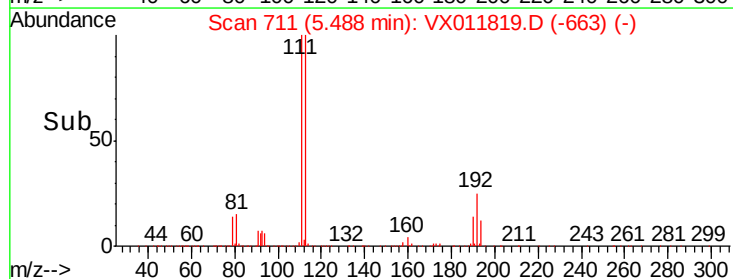
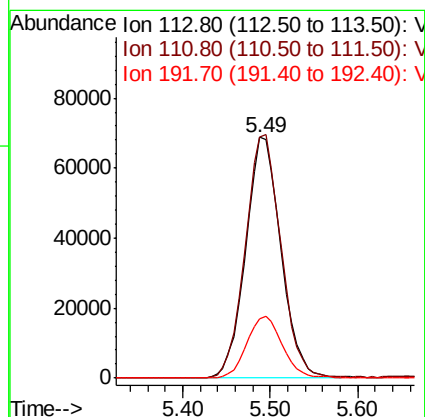
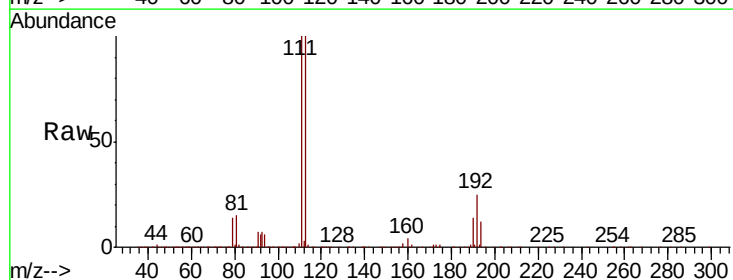
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-082219

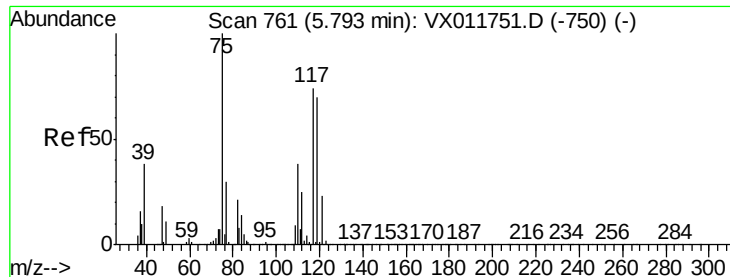
Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	36.8
88	14.2	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 47.029 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.0	121.4
192	26.0	19.9	29.9

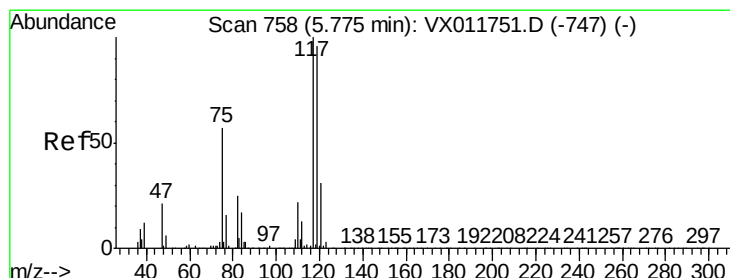
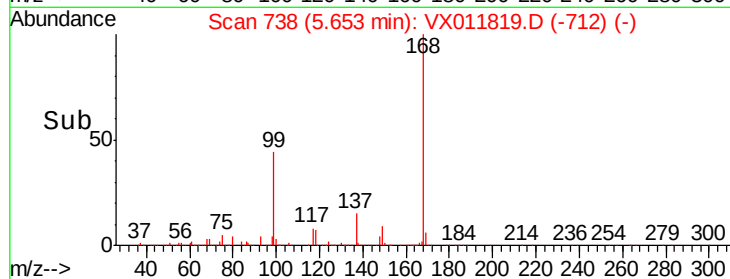
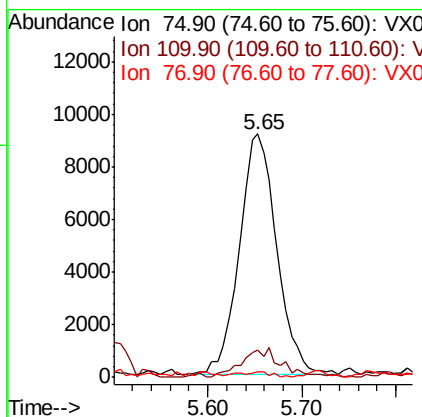
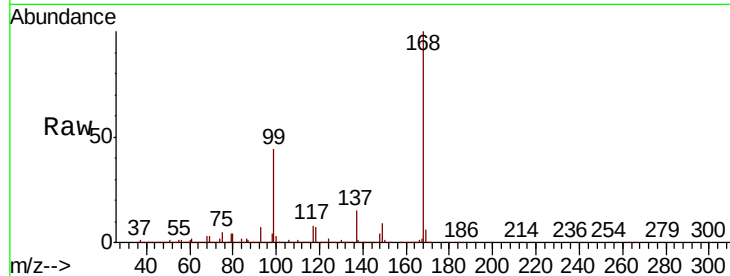




#36
 1,1-Dichloropropene
 Concen: 5.106 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

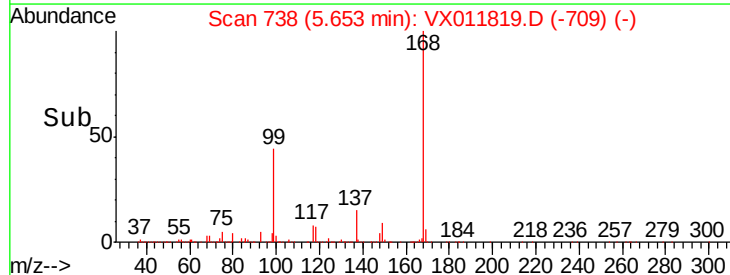
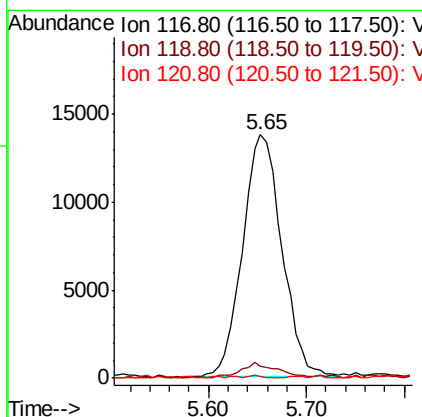
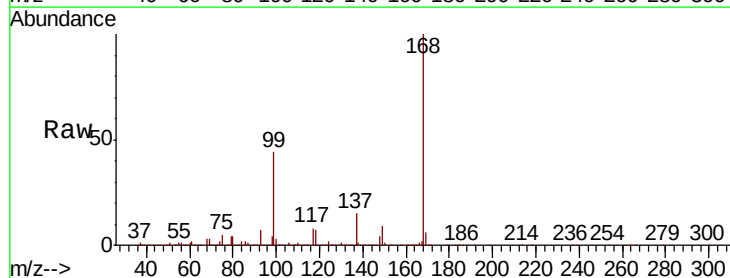
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-03-082219

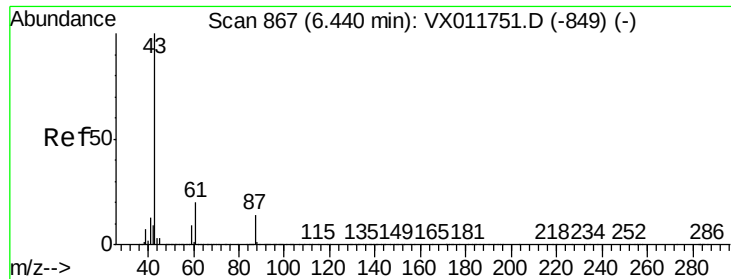
Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.4	19.0	57.0#
77	1.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.809 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.12 min
 Lab File: VX011819.D
 Acq: 24 Aug 2019 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	76.6	114.8#
121	0.3	25.2	37.8#





#43

Isopropyl Acetate

Concen: 6.367 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

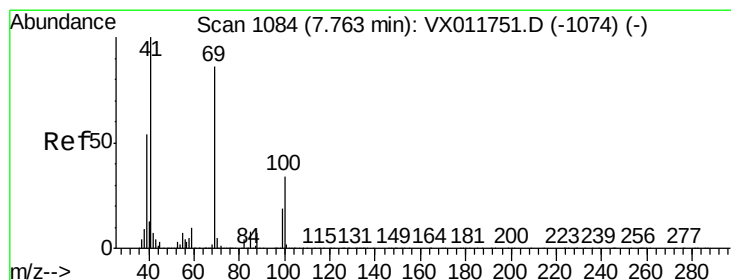
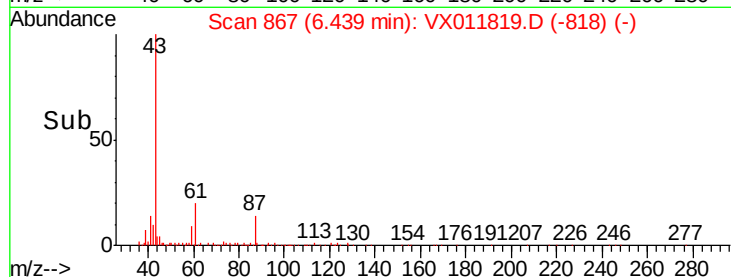
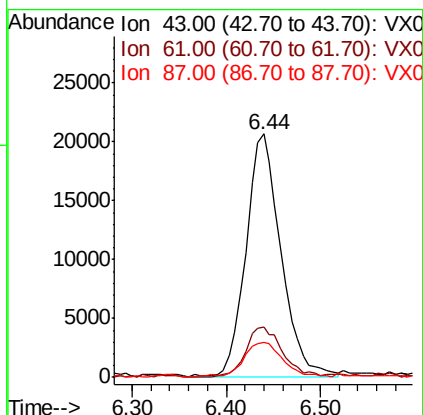
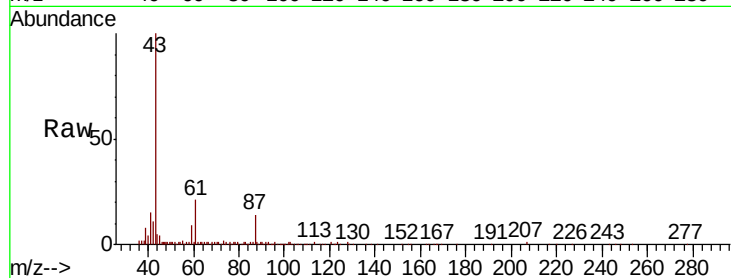
Instrument :

MSVOA_X

ClientSampleId :

OR-03-082219

Tgt Ion:	43	Resp:	54241
Ion	Ratio	Lower	Upper
43	100		
61	22.5	16.2	24.2
87	15.9	11.6	17.4



#48

Methyl methacrylate

Concen: 0.878 ug/l

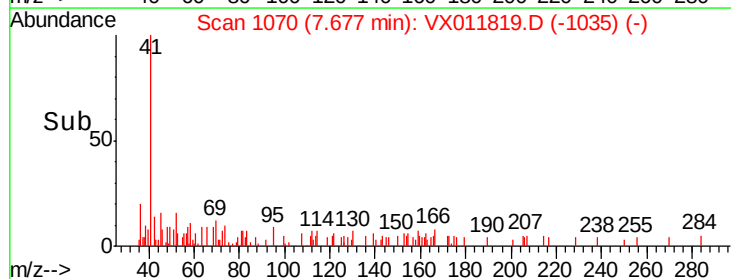
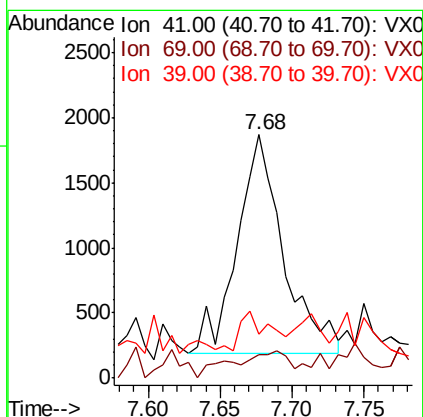
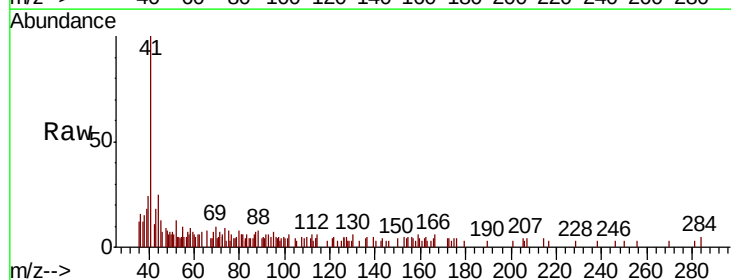
RT: 7.68 min Scan# 1070

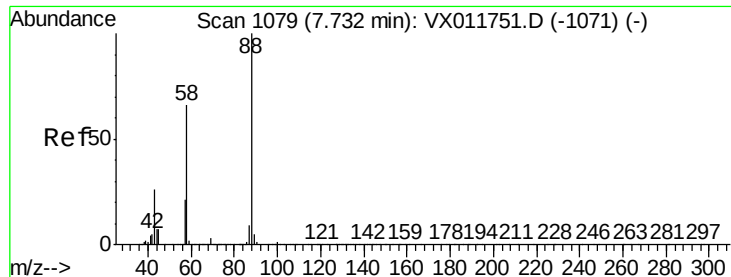
Delta R.T. -0.09 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Tgt Ion:	41	Resp:	3722
Ion	Ratio	Lower	Upper
41	100		
69	5.1	69.4	104.2#
39	0.0	43.6	65.4#





#49

1,4-Dioxane

Concen: 1.285 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

OR-03-082219

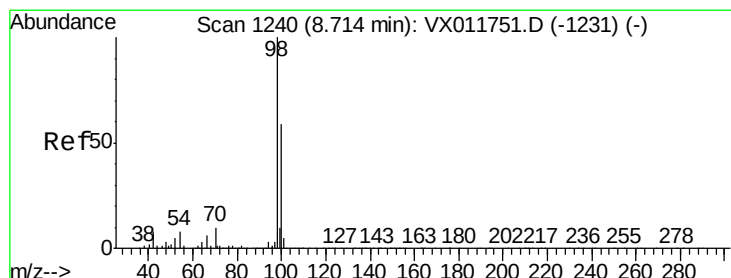
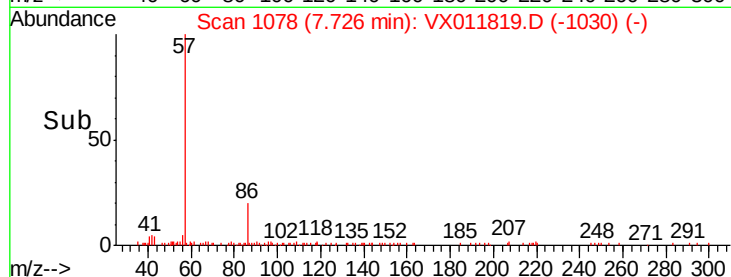
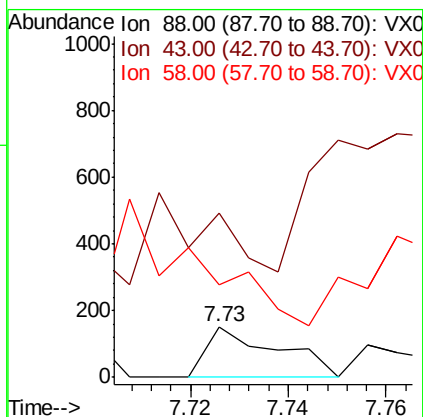
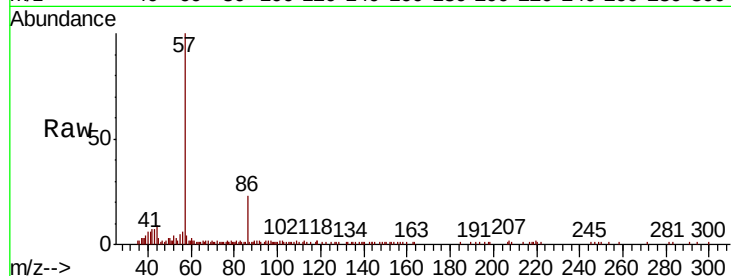
Tgt Ion: 88 Resp: 151

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

58 411.9 51.4 77.2#



#50

Toluene-d8

Concen: 51.040 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011819.D

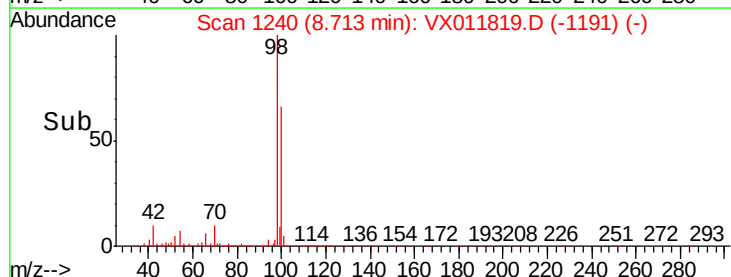
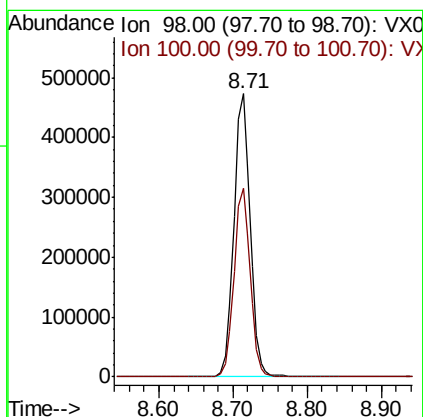
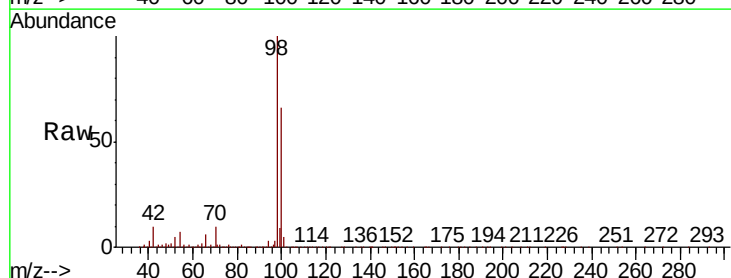
Acq: 24 Aug 2019 15:28

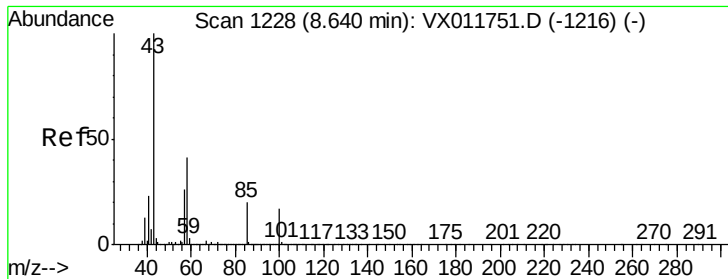
Tgt Ion: 98 Resp: 730208

Ion Ratio Lower Upper

98 100

100 65.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 10.439 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

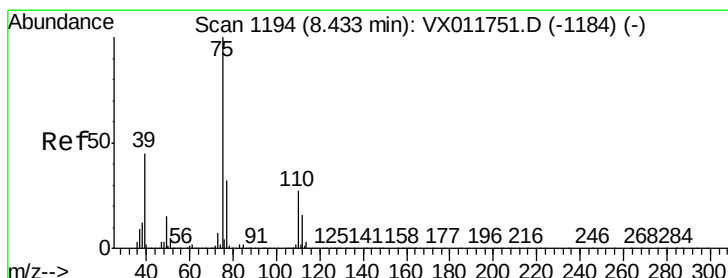
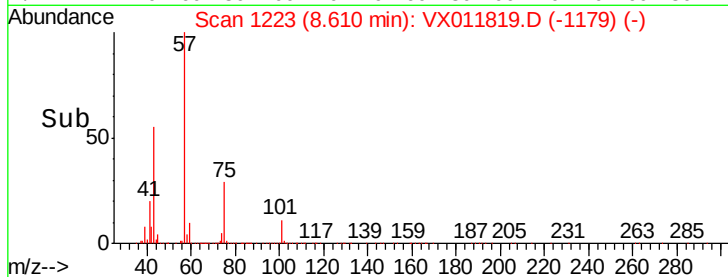
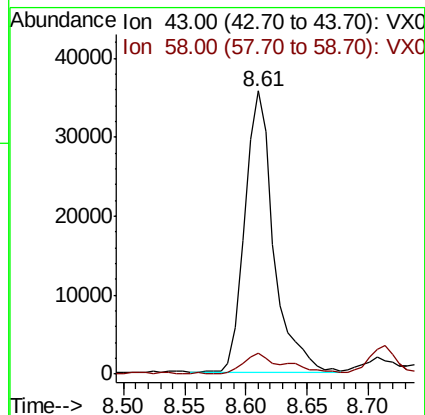
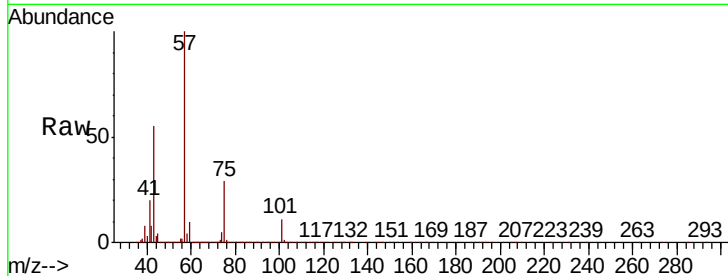
OR-03-082219

Tgt Ion: 43 Resp: 58600

Ion Ratio Lower Upper

43 100

58 6.6 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 4.818 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

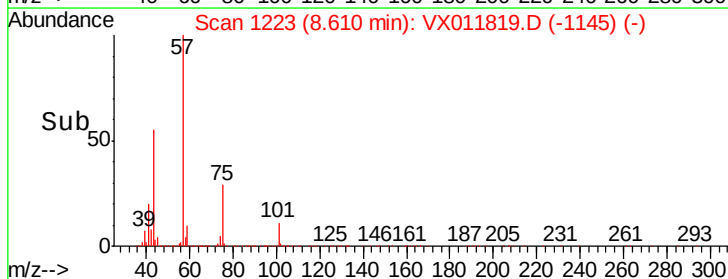
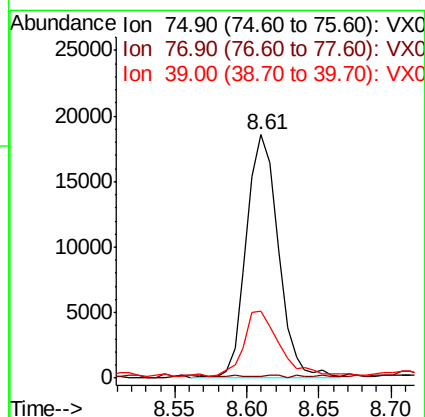
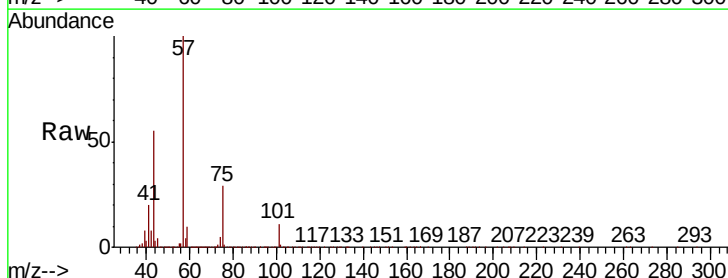
Tgt Ion: 75 Resp: 28324

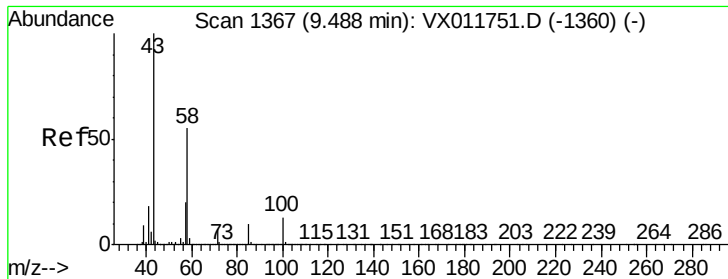
Ion Ratio Lower Upper

75 100

77 0.1 25.4 38.2#

39 26.4 36.2 54.4#

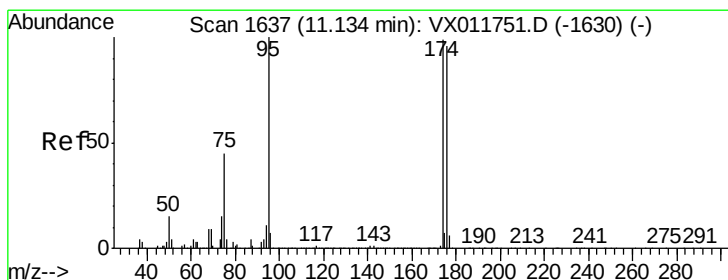
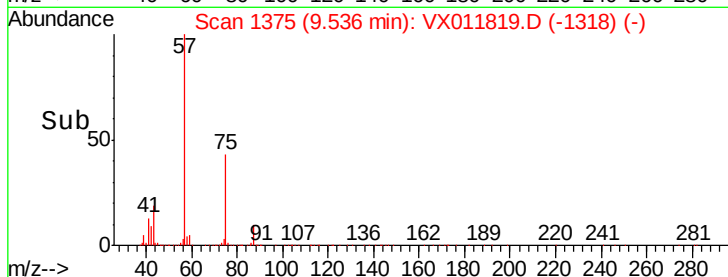
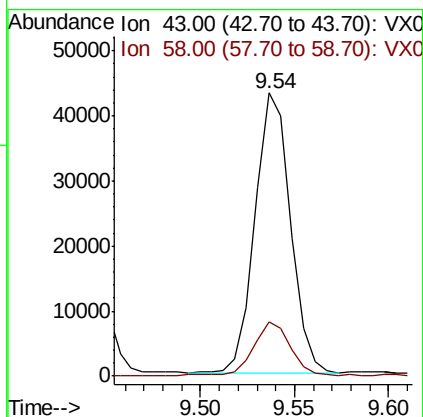




#59
2-Hexanone
Concen: 13.093 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

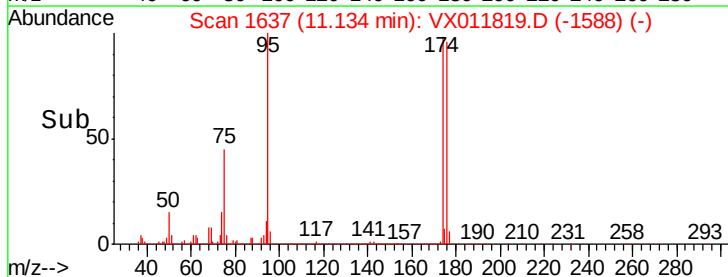
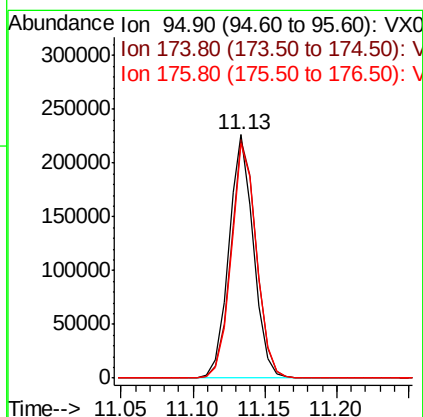
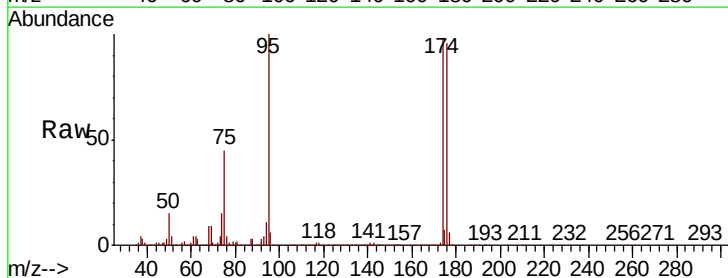
Instrument :
MSVOA_X
ClientSampleId :
OR-03-082219

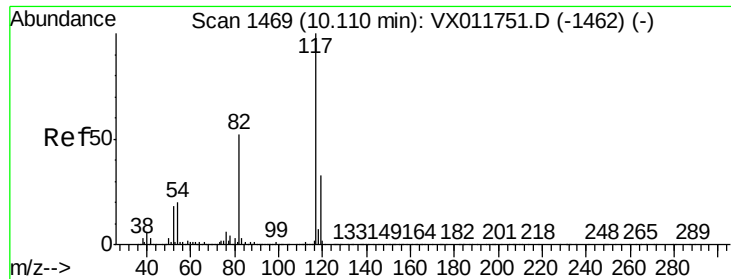
Tgt Ion: 43 Resp: 56414
Ion Ratio Lower Upper
43 100
58 20.8 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 48.087 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

Tgt Ion: 95 Resp: 271923
Ion Ratio Lower Upper
95 100
174 100.5 0.0 197.4
176 98.6 0.0 194.4

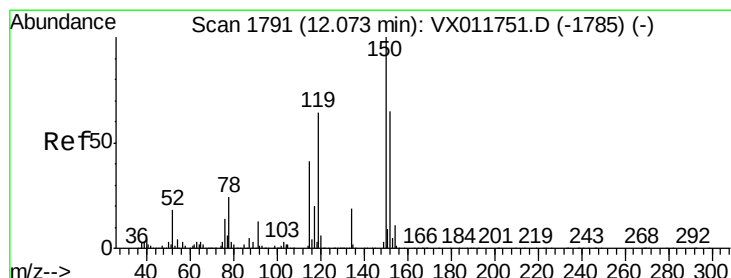
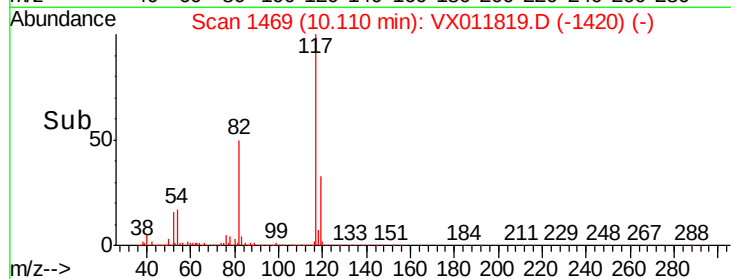
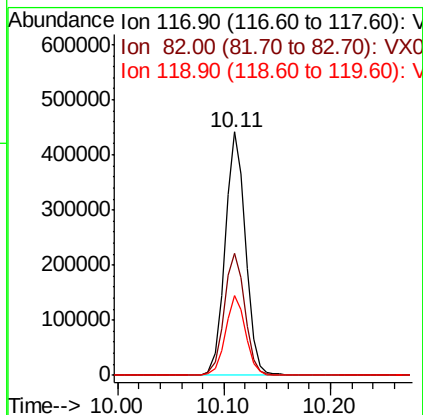
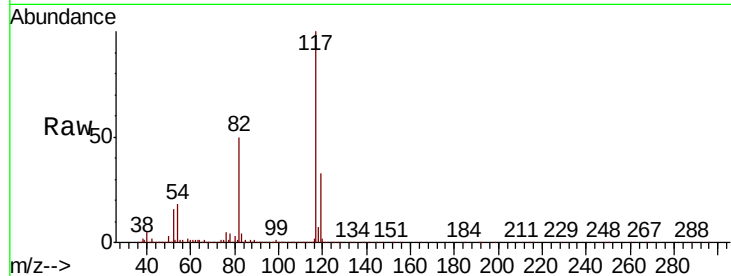




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

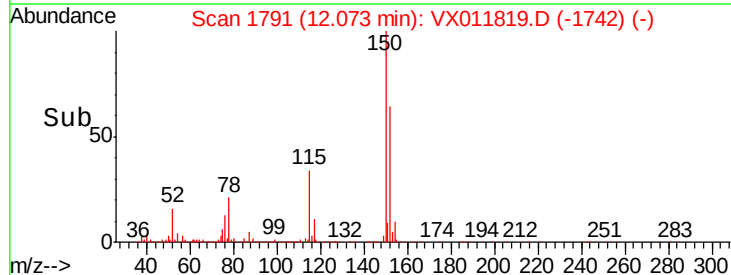
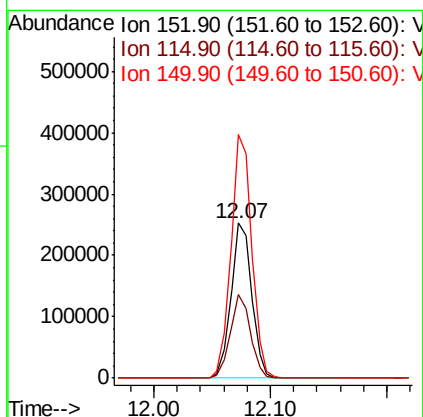
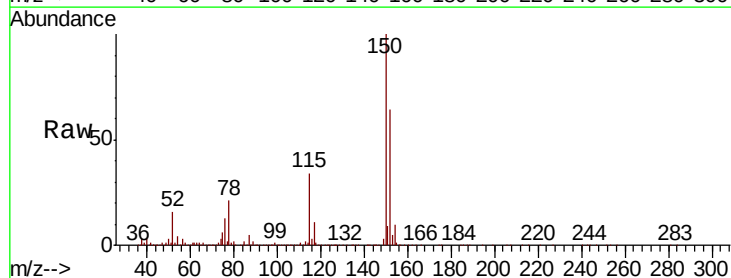
Instrument :
MSVOA_X
ClientSampleId :
OR-03-082219

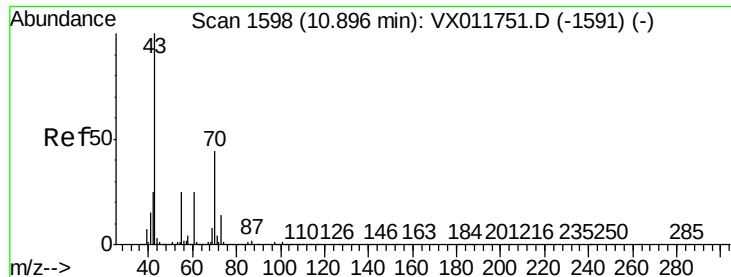
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.7	62.5
119	32.6	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011819.D
Acq: 24 Aug 2019 15:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.5	37.3	111.8
150	157.0	0.0	343.0





#74

N-ethyl acetate

Concen: 0.383 ug/l

RT: 10.83 min Scan# 1587

Delta R.T. -0.07 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

OR-03-082219

Tgt Ion: 43 Resp: 2808

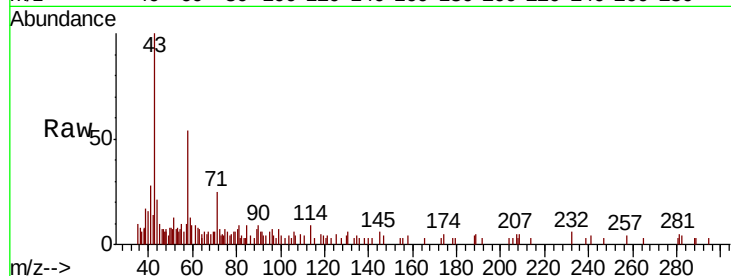
Ion Ratio Lower Upper

43 100

70 6.7 34.8 52.2#

55 0.0 19.5 29.3#

61 0.0 19.8 29.6#



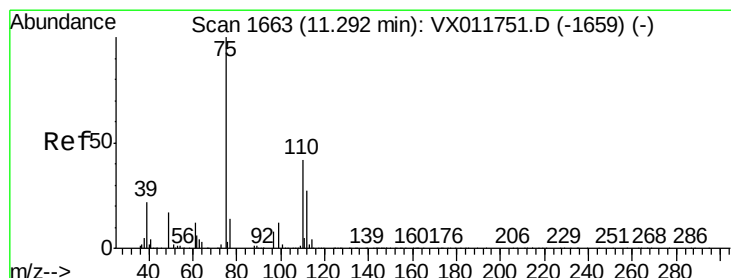
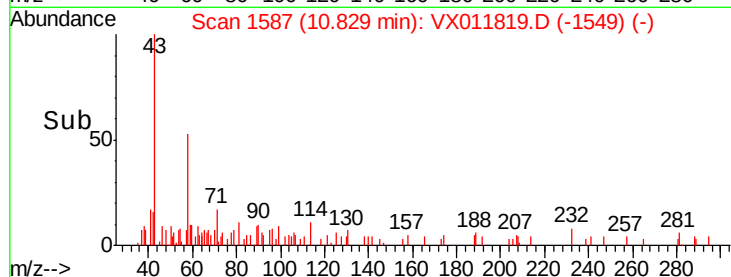
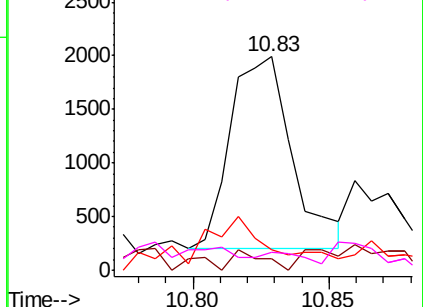
Abundance

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: 22.491 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011819.D

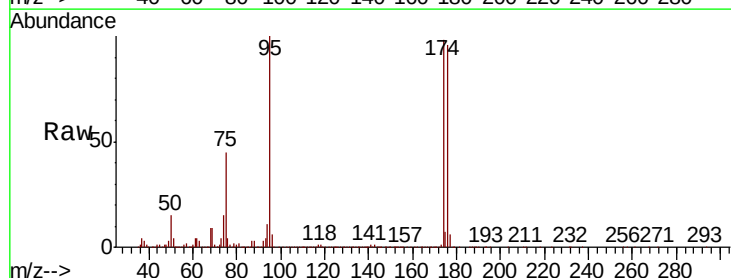
Acq: 24 Aug 2019 15:28

Tgt Ion: 75 Resp: 123942

Ion Ratio Lower Upper

75 100

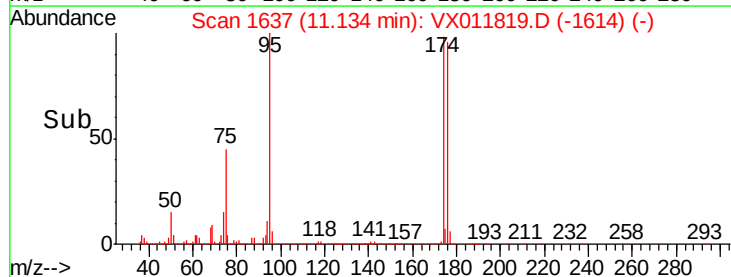
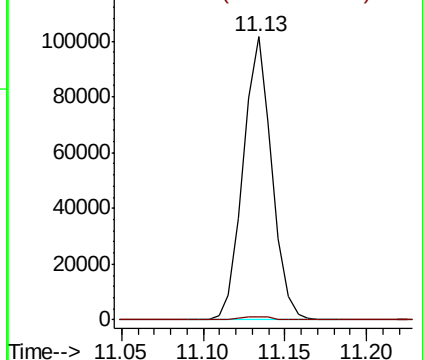
77 1.7 21.1 63.3#

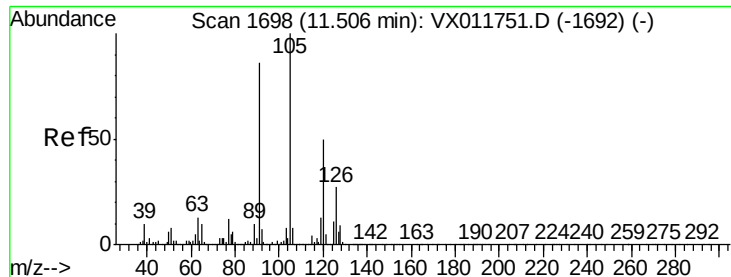


Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.232 ug/l

RT: 11.50 min Scan# 1697

Delta R.T. -0.01 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampleId :

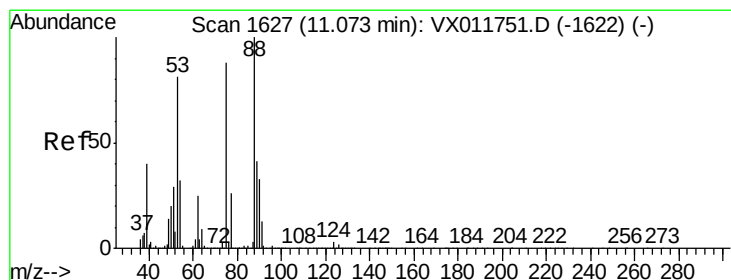
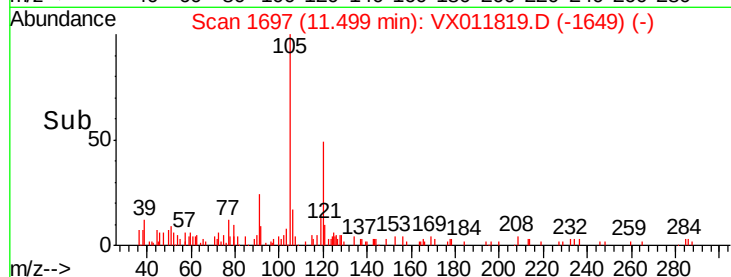
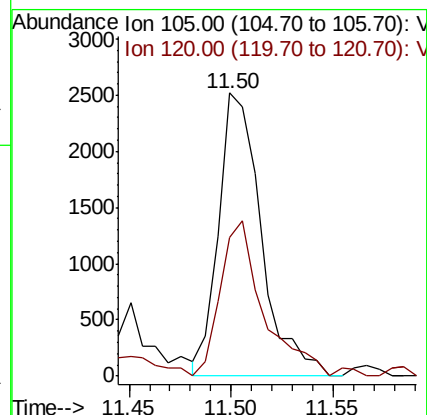
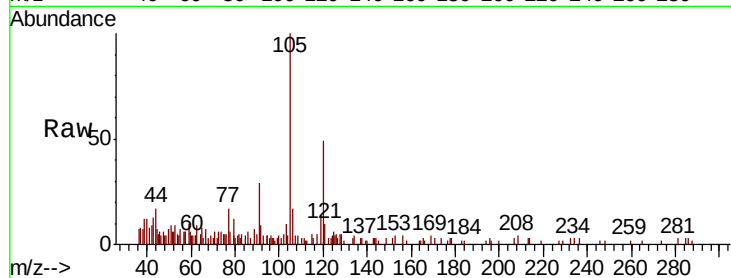
OR-03-082219

Tgt Ion:105 Resp: 3657

Ion Ratio Lower Upper

105 100

120 56.4 24.8 74.4



#81

trans-1,4-Dichloro-2-butene

Concen: 67.828 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

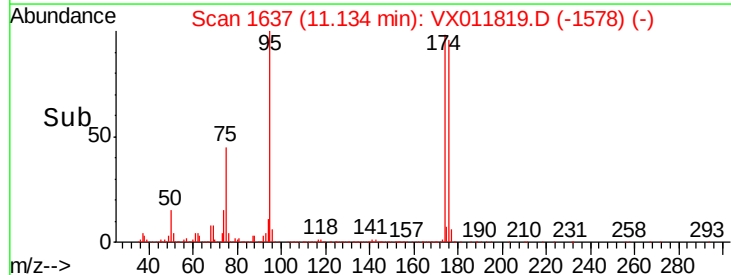
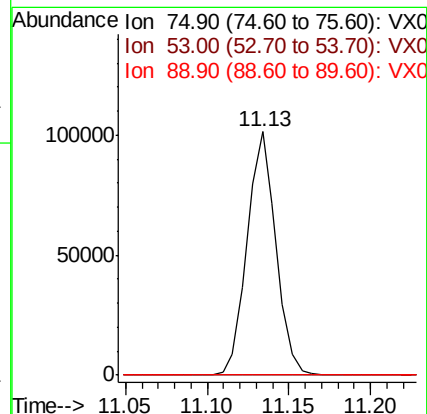
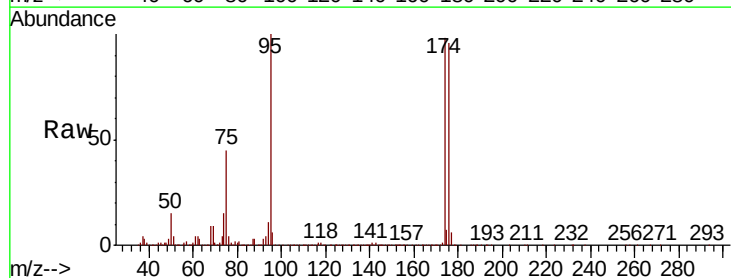
Tgt Ion: 75 Resp: 123942

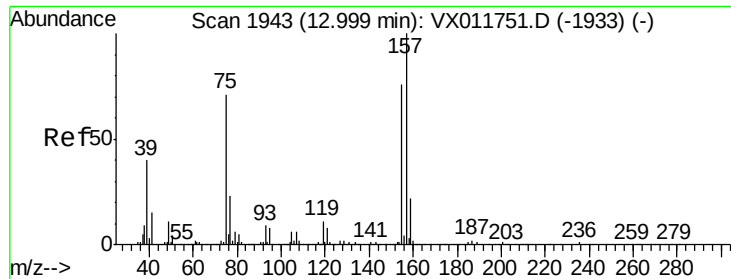
Ion Ratio Lower Upper

75 100

53 0.5 77.1 115.7#

89 0.0 38.5 57.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.226 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Instrument :

MSVOA_X

ClientSampled :

OR-03-082219

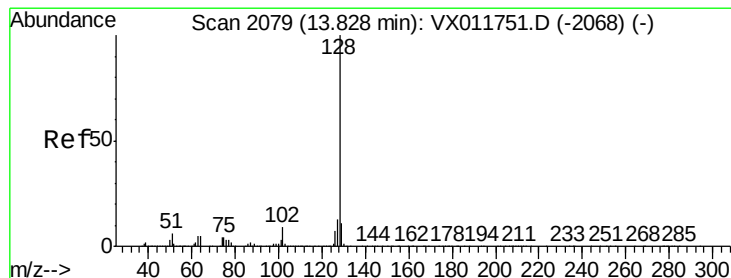
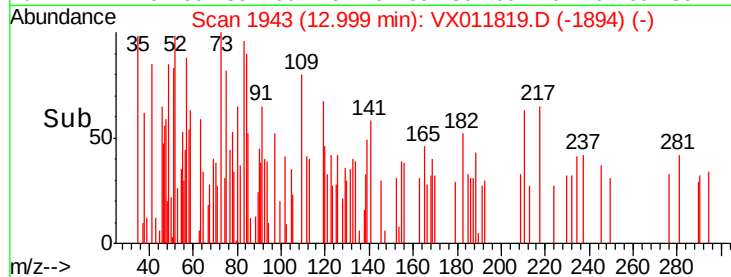
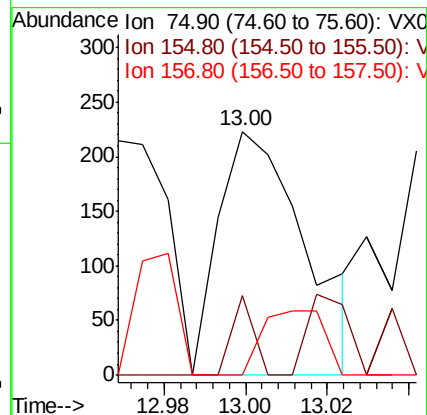
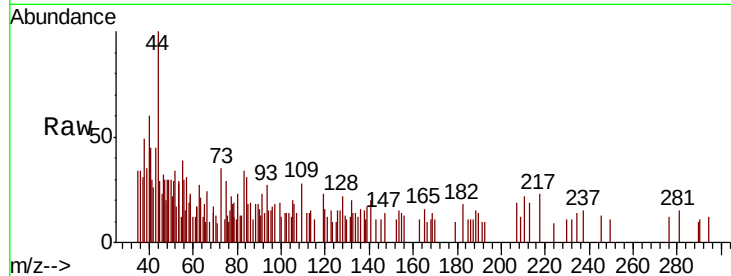
Tgt Ion: 75 Resp: 329

Ion Ratio Lower Upper

75 100

155 8.2 52.6 157.9#

157 24.0 68.3 204.9#



#95

Naphthalene

Concen: 0.424 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX011819.D

Acq: 24 Aug 2019 15:28

Tgt Ion: 128 Resp: 8318

Ion Ratio Lower Upper

128 100

127 16.1 10.4 15.6#

129 13.6 8.7 13.1#

