

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059647.D
 Acq On : 24 Jul 2018 23:03
 Operator : VA/AP
 Sample : J4106-01
 Misc : 5.06µ/5mL/MSVOA F/SOIL
 ALS Vial : 97 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 25 05:11:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 02:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	6859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	5407	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	3106	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	847	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	700	7.32	ug/l	0.00
Spiked Amount						
			Recovery	=	14.64%	
35) Dibromofluoromethane	4.28	113	1514	31.11	ug/l	0.00
Spiked Amount						
			Recovery	=	62.22%	
50) Toluene-d8	7.69	98	2893	24.39	ug/l	0.00
Spiked Amount						
			Recovery	=	48.78%	
62) 4-Bromofluorobenzene	11.51	95	1061	17.41	ug/l	0.00
Spiked Amount						
			Recovery	=	34.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	266	4.477	ug/l #	40
4) Vinyl Chloride	1.07	62	79	1.782	ug/l #	39
5) Bromomethane	1.32	94	62	Below Cal	#	3
6) Chloroethane	1.50	64	60	2.250	ug/l #	39
8) Diethyl Ether	1.63	74	81	4.835	ug/l	100
11) Tert butyl alcohol	2.69	59	77	21.635	ug/l #	65
12) 1,1-Dichloroethene	1.86	96	66	Below Cal	#	1
13) Acrolein	2.04	56	79	45.273	ug/l #	7
14) Allyl chloride	2.20	41	101	1.242	ug/l #	86
15) Acrylonitrile	3.16	53	115	18.772	ug/l #	69
16) Acetone	2.34	43	173	11.492	ug/l #	68
17) Carbon Disulfide	1.83	76	60	Below Cal	#	76
18) Methyl Acetate	2.45	43	151	3.415	ug/l #	62
19) Methyl tert-butyl Ether	2.52	73	139	1.124	ug/l #	60
20) Methylene Chloride	2.27	84	147	Below Cal	#	33
23) Vinyl Acetate	3.33	43	146	2.028	ug/l #	83
25) 2-Butanone	4.51	43	145	9.801	ug/l #	61
26) 2,2-Dichloropropane	3.87	77	72	Below Cal	#	63
27) cis-1,2-Dichloroethene	3.72	96	82	1.359	ug/l	39
28) Bromochloromethane	3.81	49	77	Below Cal	#	11
29) Tetrahydrofuran	4.25	42	79	Below Cal	#	38
36) 1,1-Dichloropropene	4.44	75	141	2.545	ug/l #	45
37) Ethyl Acetate	4.26	43	211	7.257	ug/l #	1
39) Methylcyclohexane	5.51	83	62	1.380	ug/l #	63
41) Methacrylonitrile	4.89	41	182	17.564	ug/l #	47
42) 1,2-Dichloroethane	5.08	62	65	1.070	ug/l	84
43) Isopropyl Acetate	7.10	43	194	7.963	ug/l #	50
45) 1,2-Dichloropropane	6.43	63	69	2.659	ug/l #	43
47) Bromodichloromethane	6.56	83	71	1.108	ug/l #	28
48) Methyl methacrylate	6.89	41	279	15.556	ug/l #	34
49) 1,4-Dioxane	6.65	88	101	731.799	ug/l #	22
51) 4-Methyl-2-Pentanone	8.39	43	94	5.249	ug/l #	37
54) cis-1,3-Dichloropropene	7.45	75	76	1.408	ug/l #	8
55) 1,1,2-Trichloroethane	8.65	97	67	2.932	ug/l #	14

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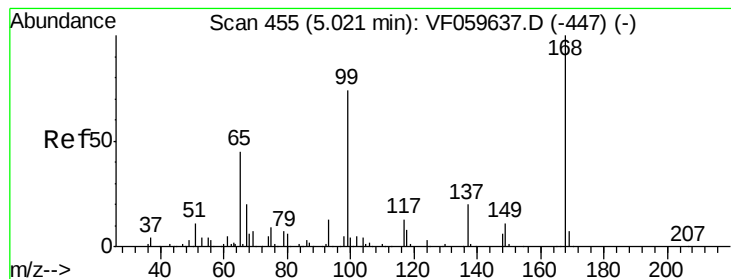
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 25 05:11:59 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	7.70	63	133	42.424	ug/l	100
59) 2-Hexanone	9.61	43	607	44.389	ug/l	65
60) Dibromochloromethane	8.83	129	70	1.657	ug/l #	11
61) 1,2-Dibromoethane	9.22	107	151	5.412	ug/l #	1
65) Chlorobenzene	9.94	112	62	1.077	ug/l #	42
66) 1,1,1,2-Tetrachloroethane	9.93	131	110	4.124	ug/l #	9
68) m/p-Xylenes	10.33	106	79	2.138	ug/l #	1
69) o-Xylene	10.68	106	61	1.551	ug/l #	1
73) Isopropylbenzene	11.33	105	67	1.259	ug/l #	50
74) N-amyl acetate	11.46	43	342	29.962	ug/l #	47
76) 1,2,3-Trichloropropane	11.88	75	74	11.113	ug/l #	27
78) n-propylbenzene	11.72	91	94	1.483	ug/l #	54
79) 2-Chlorotoluene	11.77	91	68	1.783	ug/l #	44
80) 1,3,5-Trimethylbenzene	11.99	105	85	1.797	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.88	75	74	18.055	ug/l #	7
82) 4-Chlorotoluene	11.97	91	85	2.089	ug/l #	43
84) 1,2,4-Trimethylbenzene	12.29	105	73	1.504	ug/l #	33
85) sec-Butylbenzene	12.36	105	166	2.611	ug/l #	57
86) p-Isopropyltoluene	12.56	119	95	1.717	ug/l #	50
89) n-Butylbenzene	12.83	91	92	Below Cal	#	31
90) Hexachloroethane	13.05	117	62	4.593	ug/l #	67
92) 1,2-Dibromo-3-Chloropropan	13.66	75	130	62.538	ug/l #	5

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

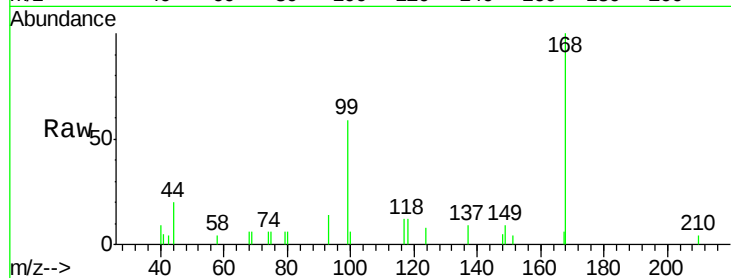
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 6859

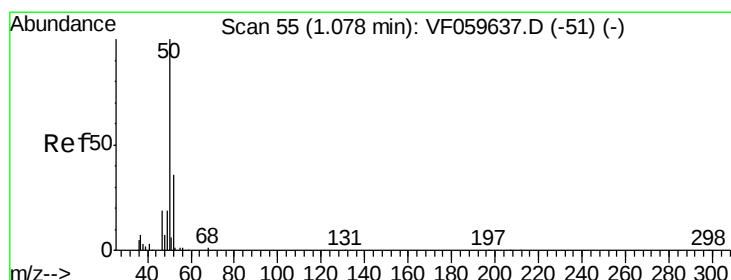
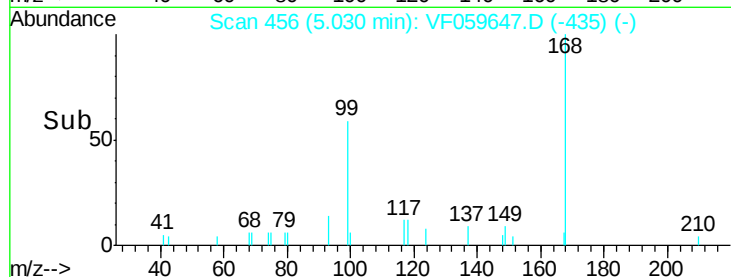
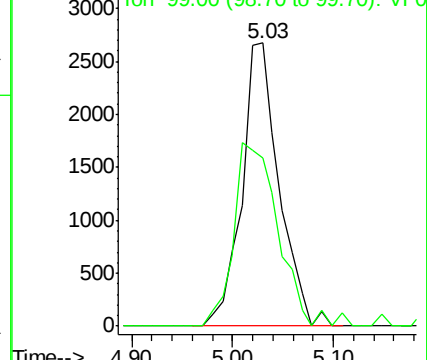
Ion Ratio Lower Upper

168 100

99 65.7 59.5 89.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 4.477 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059647.D

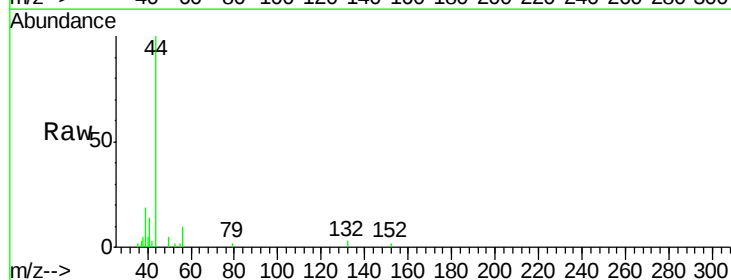
Acq: 24 Jul 2018 23:03

Tgt Ion: 50 Resp: 266

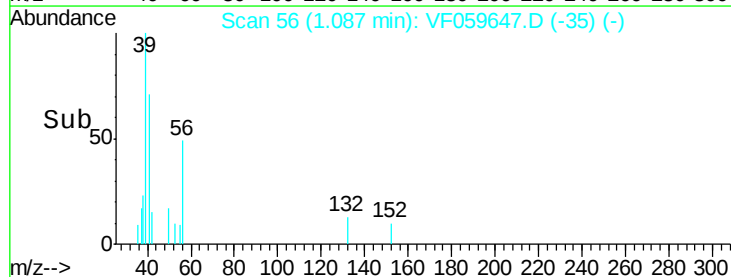
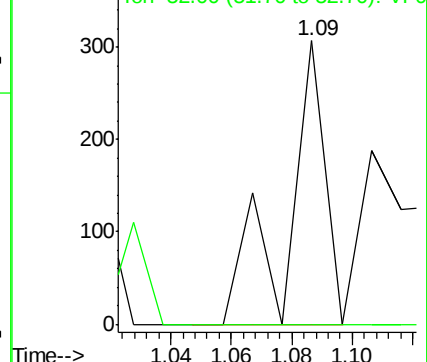
Ion Ratio Lower Upper

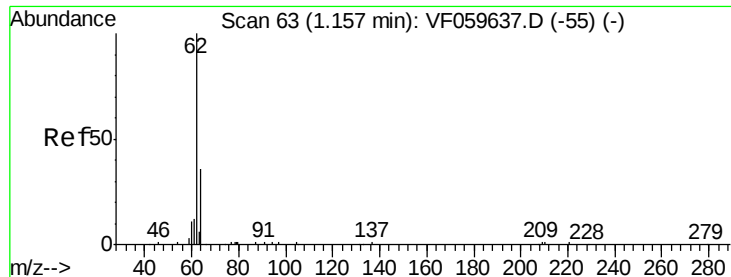
50 100

52 0.0 28.0 42.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 1.782 ug/l

RT: 1.07 min Scan# 54

Delta R.T. -0.09 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

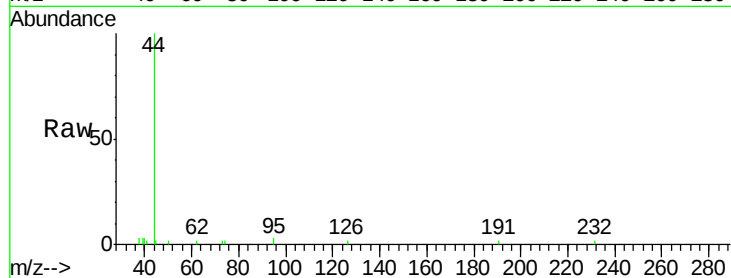
ClientSampled :

Tot Ion: 62 Resp: 79

Ion Ratio Lower Upper

62 100

64 0.0 28.6 43.0#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.07

150

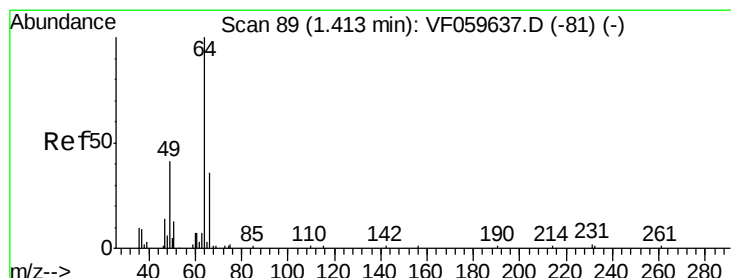
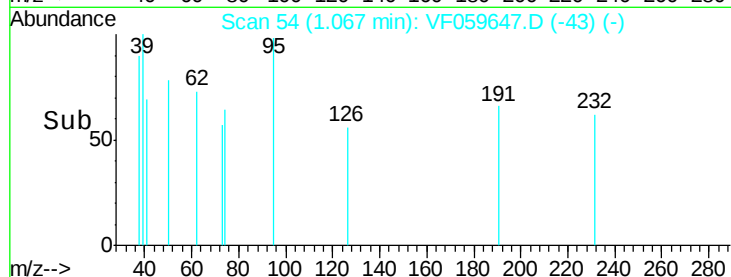
100

50

0

1.04 1.06 1.08 1.10

Time-->



#6

Chloroethane

Concen: 2.250 ug/l

RT: 1.50 min Scan# 98

Delta R.T. 0.09 min

Lab File: VF059647.D

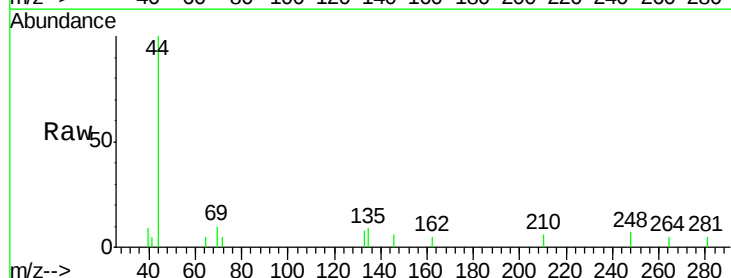
Acq: 24 Jul 2018 23:03

Tgt Ion: 64 Resp: 60

Ion Ratio Lower Upper

64 100

66 0.0 29.0 43.6#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.50

120

100

80

60

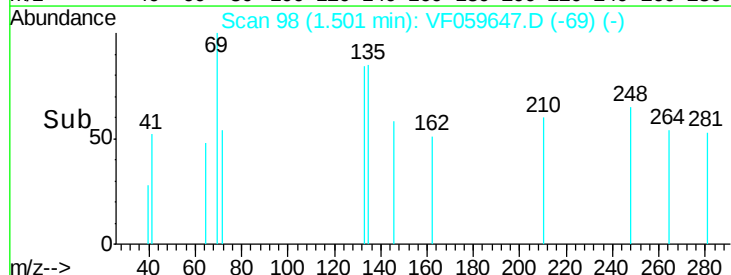
40

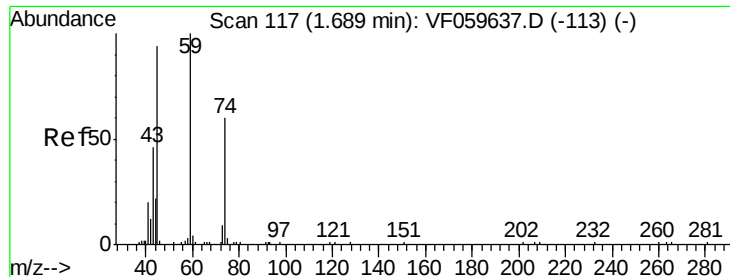
20

0

1.48 1.50 1.52

Time-->





#8

Diethyl Ether

Concen: 4.835 ug/l

RT: 1.63 min Scan# 111

Delta R.T. -0.06 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

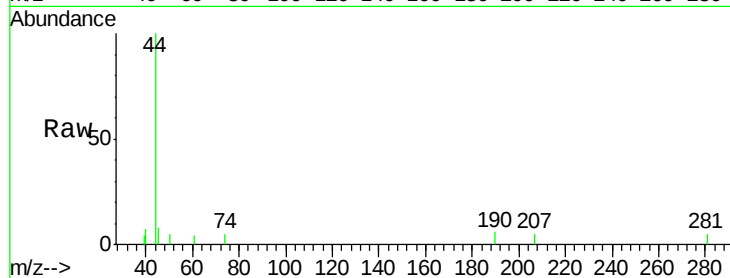
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 81

Ion Ratio Lower Upper

74 100

45 160.6 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

250

200

150

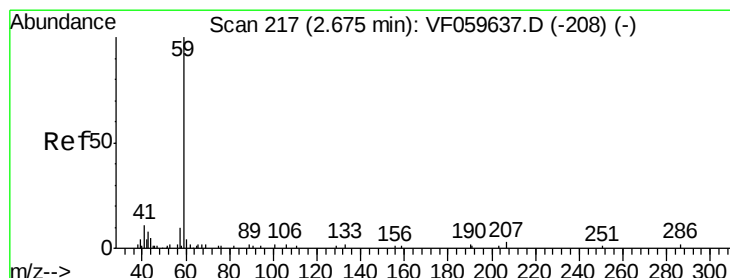
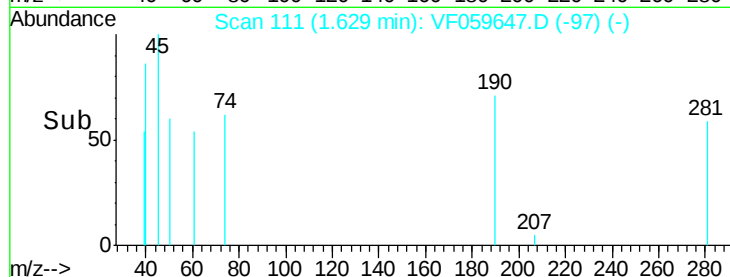
100

50

0

1.60 1.62 1.64 1.66

Time-->



#11

Tert butyl alcohol

Concen: 21.635 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059647.D

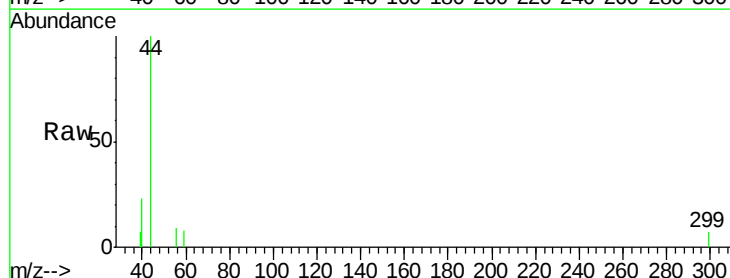
Acq: 24 Jul 2018 23:03

Tgt Ion: 59 Resp: 77

Ion Ratio Lower Upper

59 100

57 0.0 11.4 17.2#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

150

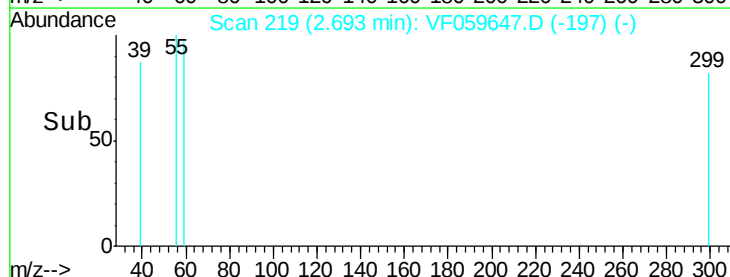
100

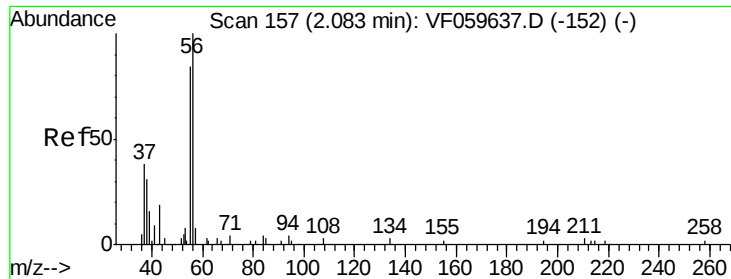
50

0

2.68 2.70 2.72

Time-->

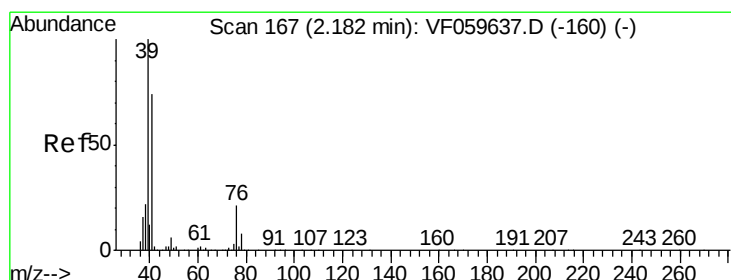
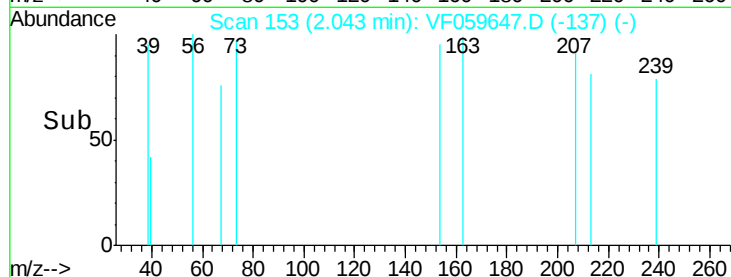
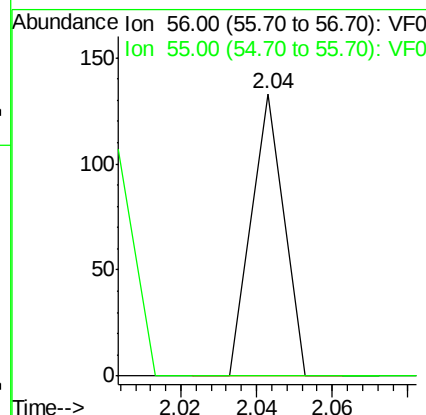
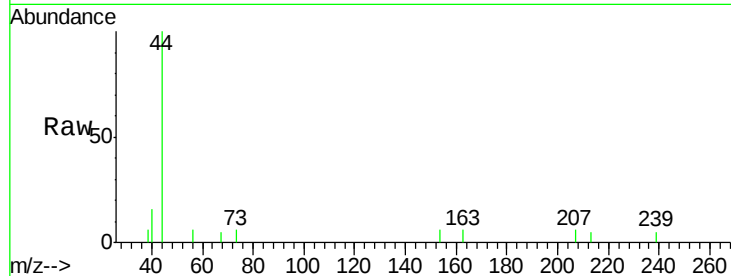




#13
 Acrolein
 Concen: 45.273 ug/l
 RT: 2.04 min Scan# 153
 Delta R.T. -0.04 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

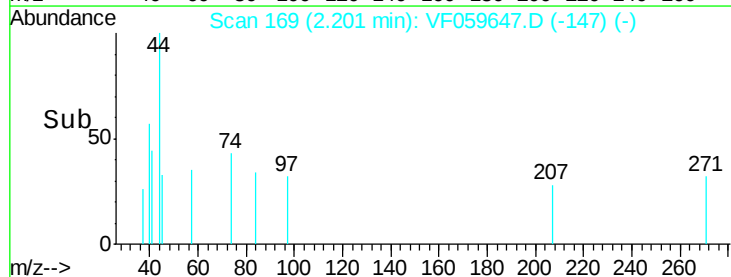
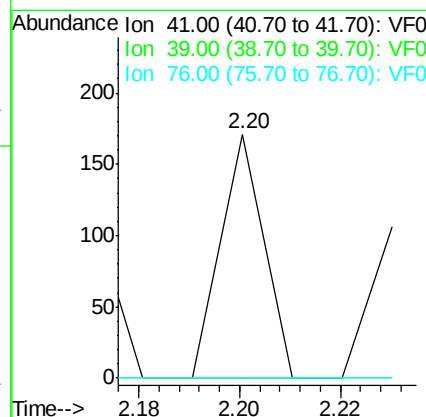
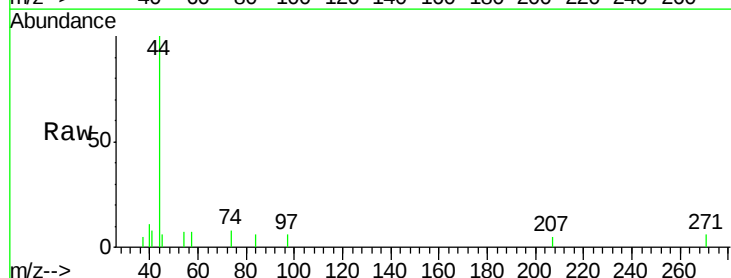
Instrument :
 MSVOA_F
 ClientSampled :

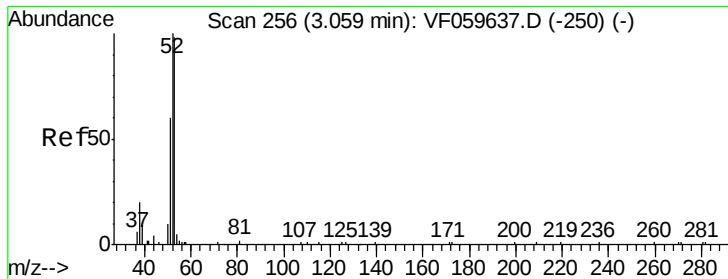
Tot Ion: 56 Resp: 79
 Ion Ratio Lower Upper
 56 100
 55 0.0 67.2 100.8#



#14
 Allyl chloride
 Concen: 1.242 ug/l
 RT: 2.20 min Scan# 169
 Delta R.T. 0.02 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Tgt Ion: 41 Resp: 101
 Ion Ratio Lower Upper
 41 100
 39 129.8 108.6 162.8
 76 0.0 23.0 34.6#





#15

Acrylonitrile

Concen: 18.772 ug/l

RT: 3.16 min Scan# 266

Delta R.T. 0.10 min

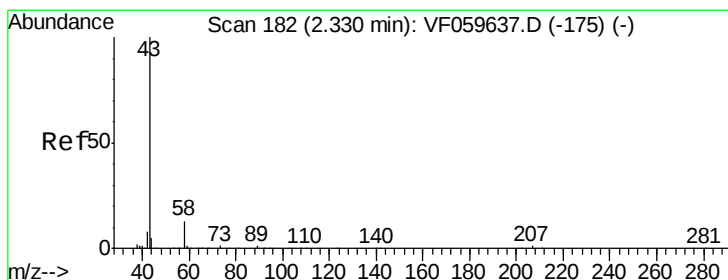
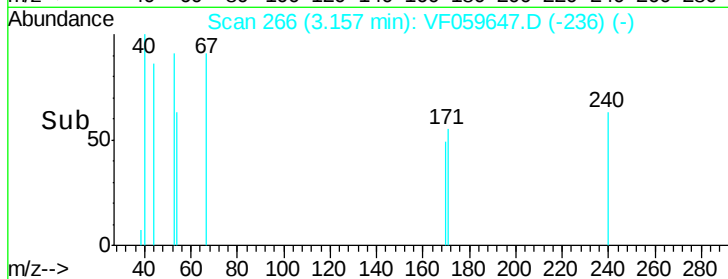
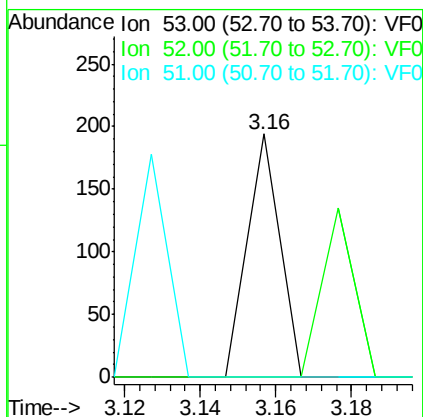
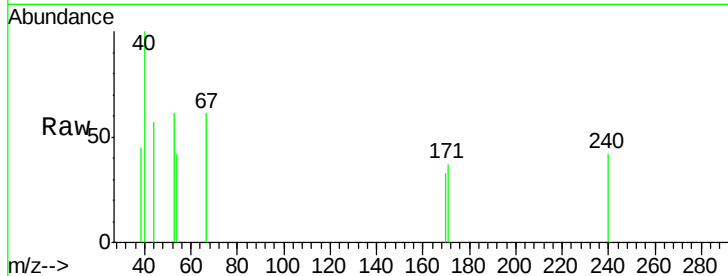
Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 53 Resp: 115

Ion	Ratio	Lower	Upper
53	100		
52	100.0	80.9	121.3
51	0.0	49.4	74.2#



#16

Acetone

Concen: 11.492 ug/l

RT: 2.34 min Scan# 183

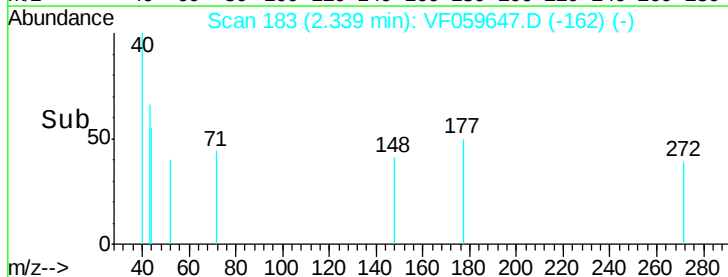
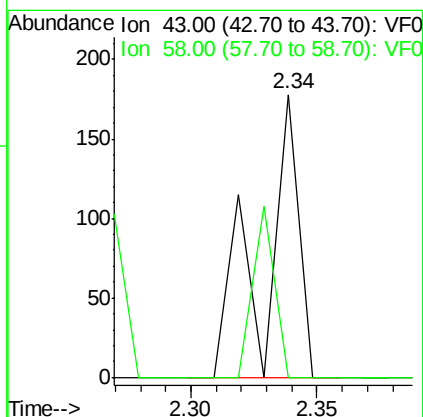
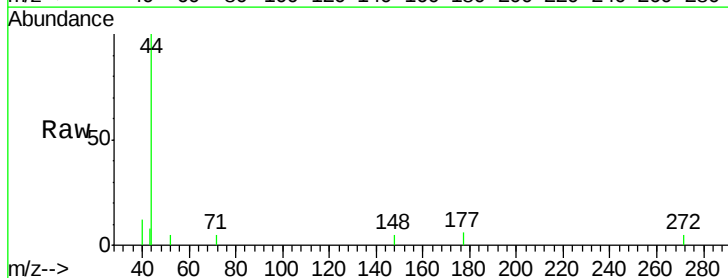
Delta R.T. 0.01 min

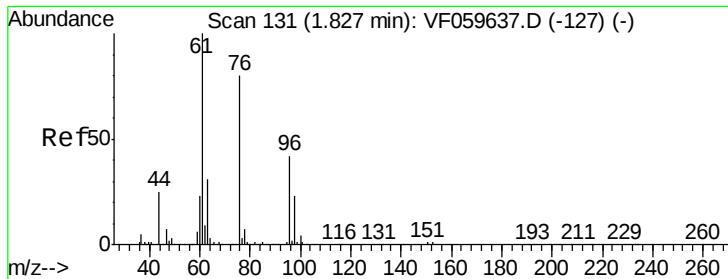
Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion: 43 Resp: 173

Ion	Ratio	Lower	Upper
43	100		
58	0.0	10.2	15.2#





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.83 min Scan# 131

Delta R.T. -0.00 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

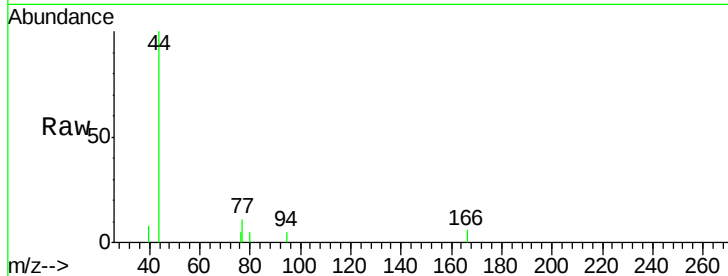
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 60

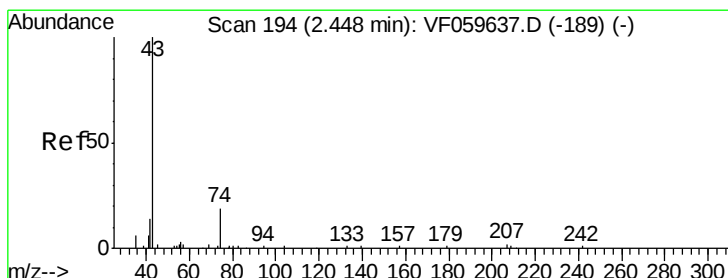
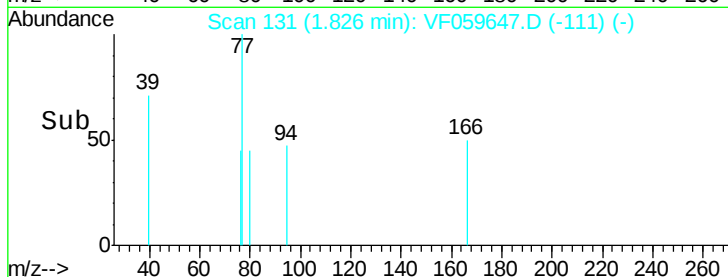
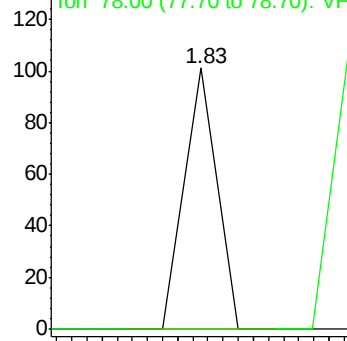
Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0
Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 3.415 ug/l

RT: 2.45 min Scan# 194

Delta R.T. -0.00 min

Lab File: VF059647.D

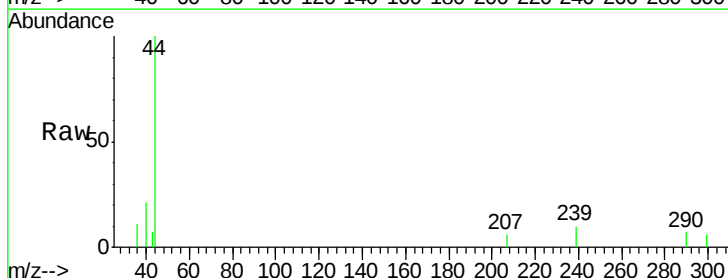
Acq: 24 Jul 2018 23:03

Tgt Ion: 43 Resp: 151

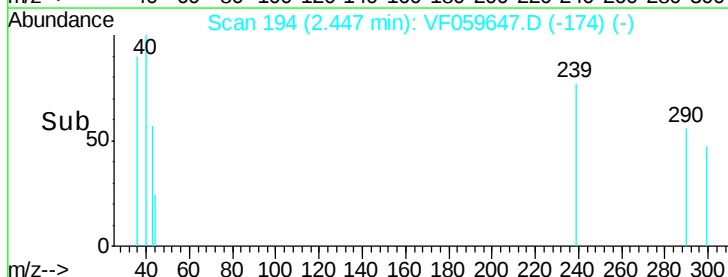
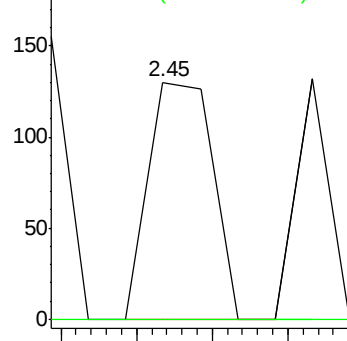
Ion Ratio Lower Upper

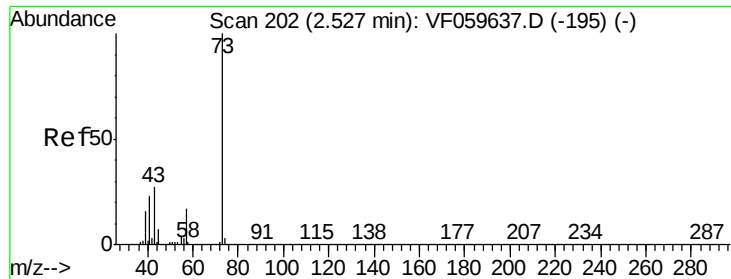
43 100

74 0.0 13.0 19.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 74.00 (73.70 to 74.70): VF0



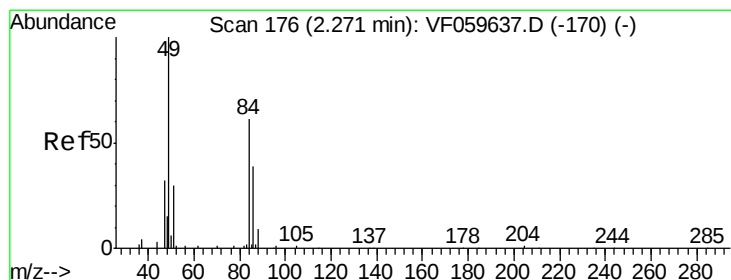
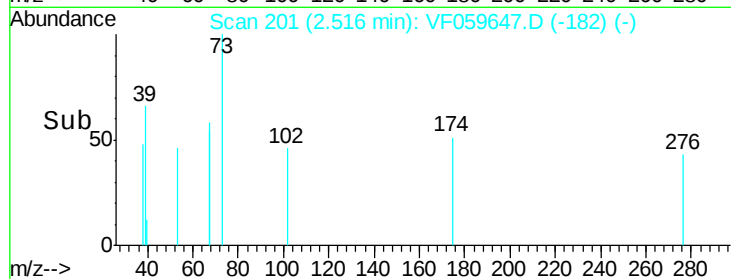
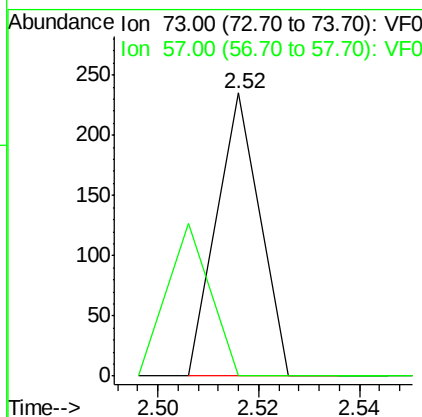
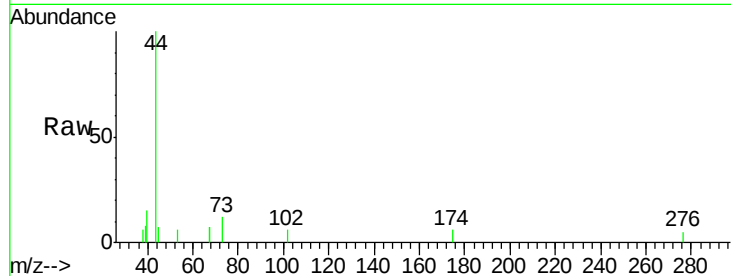


#19

Methyl tert-butyl Ether
 Concen: 1.124 ug/l
 RT: 2.52 min Scan# 201
 Delta R.T. -0.01 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Instrument :
 MSVOA_F
 ClientSampled :

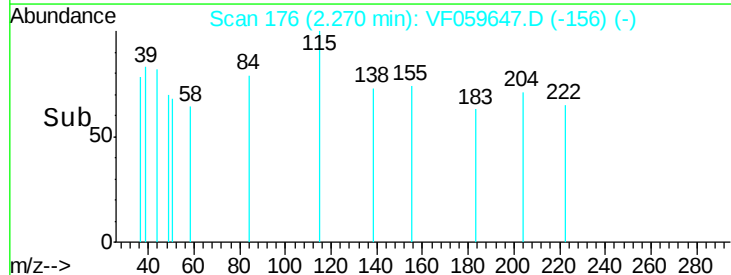
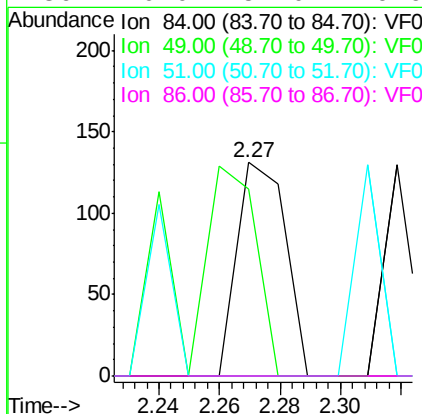
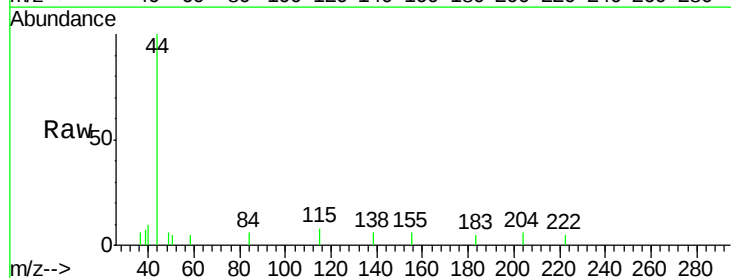
Tot Ion: 73 Resp: 139
 Ion Ratio Lower Upper
 73 100
 57 0.0 14.2 21.4#

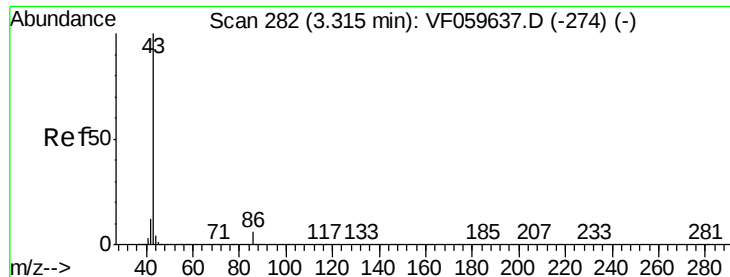


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.27 min Scan# 176
 Delta R.T. -0.00 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Tgt Ion: 84 Resp: 147
 Ion Ratio Lower Upper
 84 100
 49 87.8 133.8 200.8#
 51 0.0 41.1 61.7#
 86 0.0 51.0 76.6#





#23

Vinyl Acetate

Concen: 2.028 ug/l

RT: 3.33 min Scan# 284

Delta R.T. 0.02 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

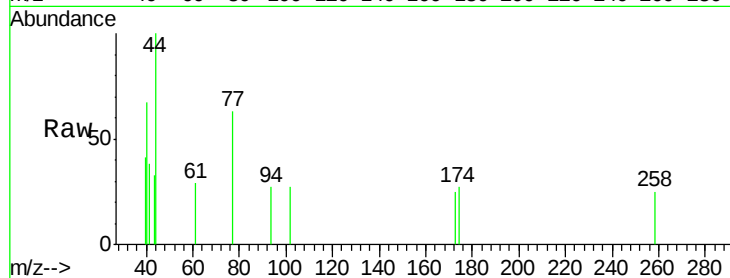
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 146

Ion Ratio Lower Upper

43 100

86 0.0 4.5 6.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

150

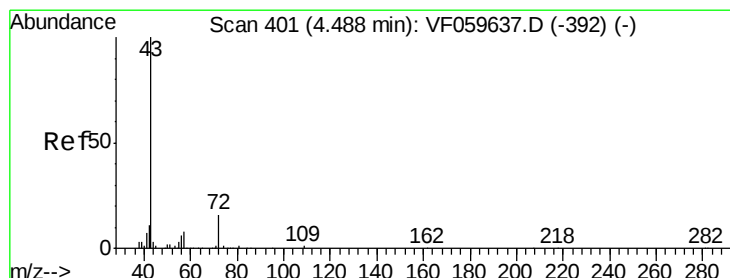
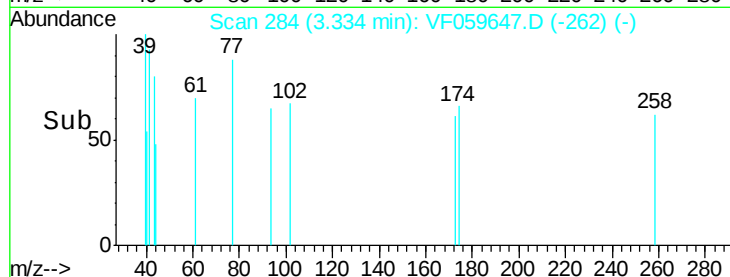
100

50

0

3.30 3.32 3.34 3.36

Time-->



#25

2-Butanone

Concen: 9.801 ug/l

RT: 4.51 min Scan# 403

Delta R.T. 0.02 min

Lab File: VF059647.D

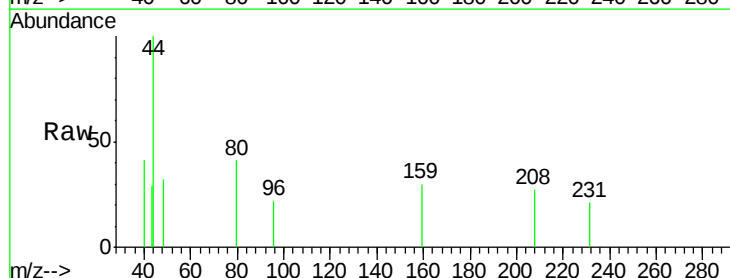
Acq: 24 Jul 2018 23:03

Tgt Ion: 43 Resp: 145

Ion Ratio Lower Upper

43 100

72 0.0 13.5 20.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

200

150

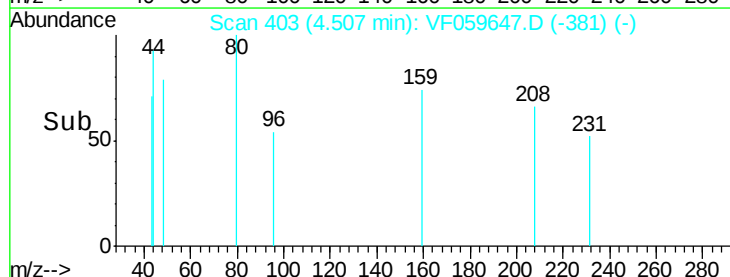
100

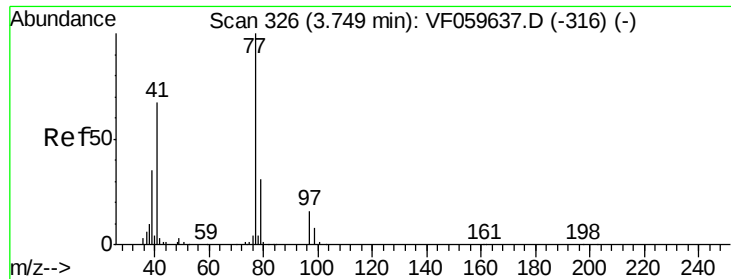
50

0

4.48 4.50 4.52 4.54

Time-->





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 3.87 min Scan# 338

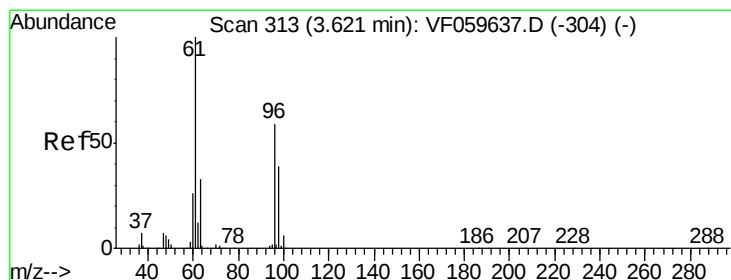
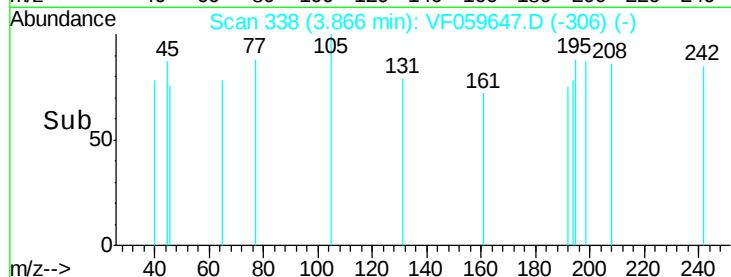
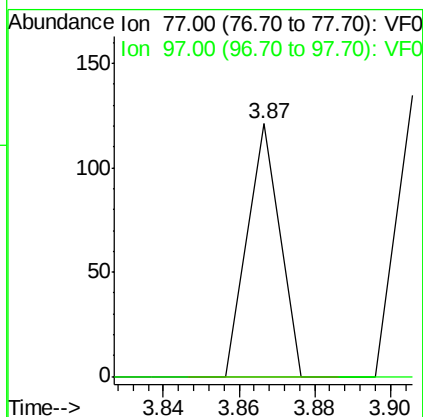
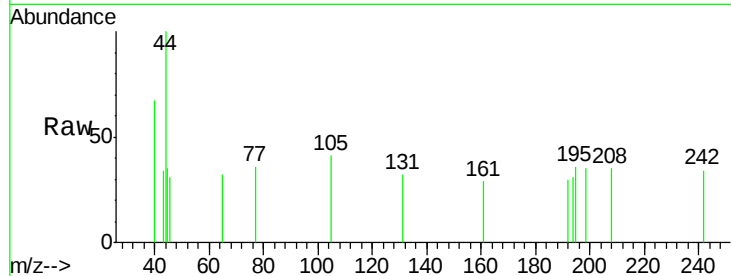
Delta R.T. 0.12 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 77 Resp: 72
Ion Ratio Lower Upper
77 100
97 0.0 7.8 23.3#



#27

cis-1,2-Dichloroethene

Concen: 1.359 ug/l

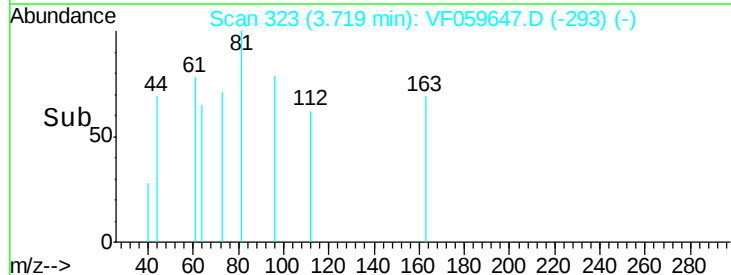
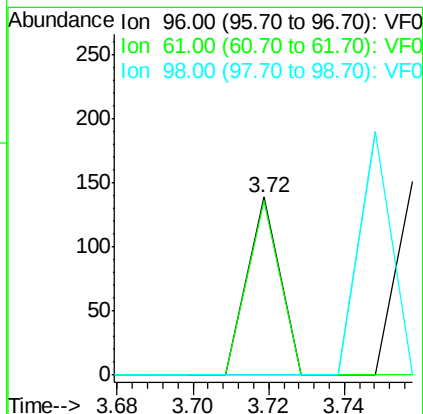
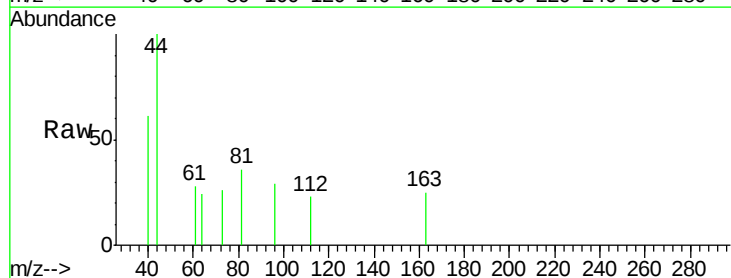
RT: 3.72 min Scan# 323

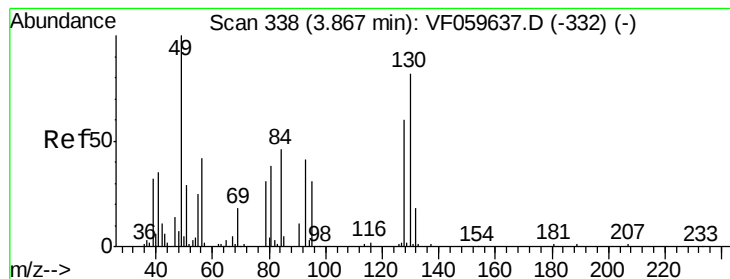
Delta R.T. 0.10 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion: 96 Resp: 82
Ion Ratio Lower Upper
96 100
61 97.8 0.0 337.4
98 0.0 0.0 132.8





#28

Bromochloromethane

Concen: Below Cal

RT: 3.81 min Scan# 332

Delta R.T. -0.06 min

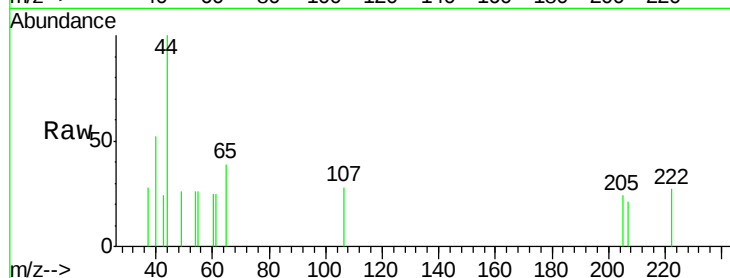
Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 49 Resp: 77

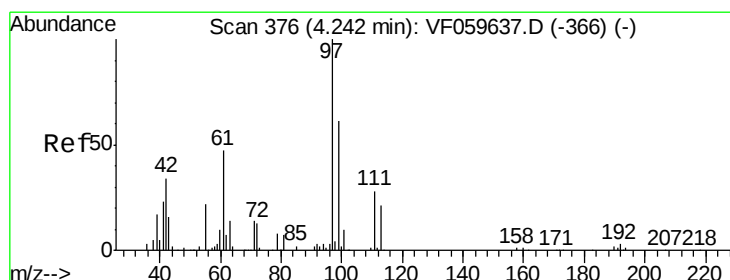
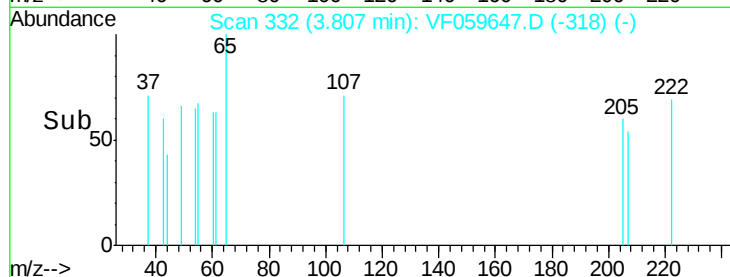
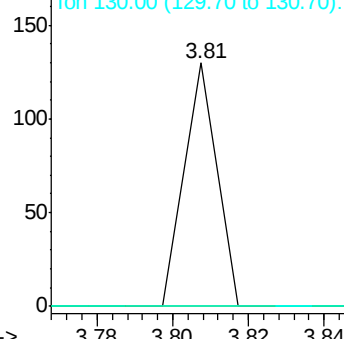
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	65.0	97.4



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

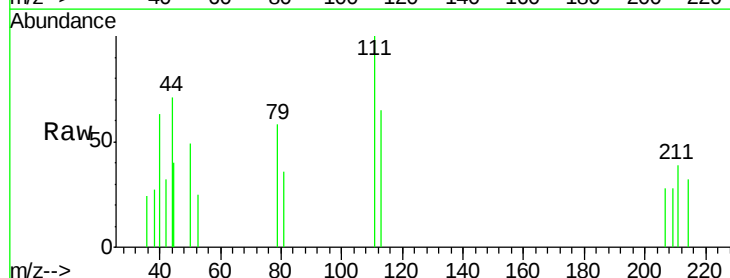
Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion: 42 Resp: 79

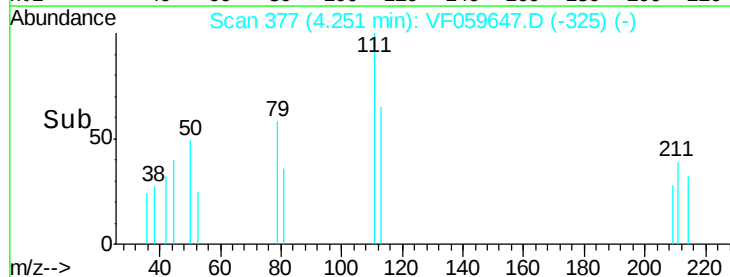
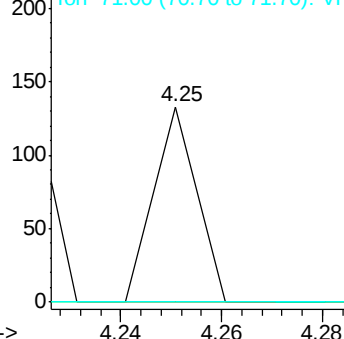
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.0	45.0
71	0.0	28.6	42.8

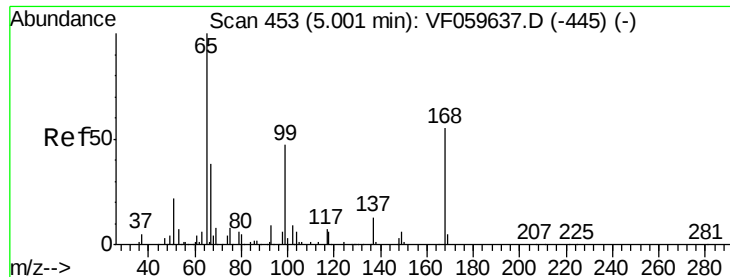


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 7.324 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

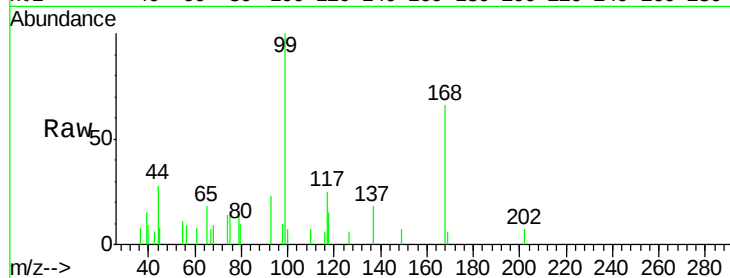
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 700

Ion Ratio Lower Upper

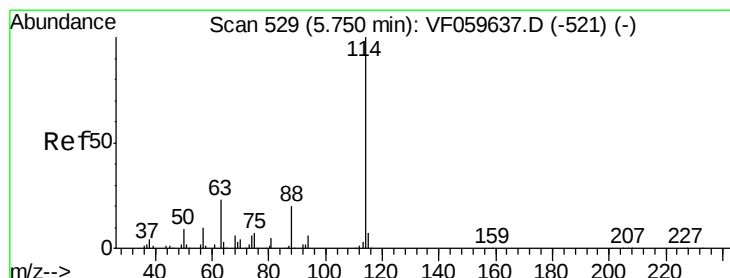
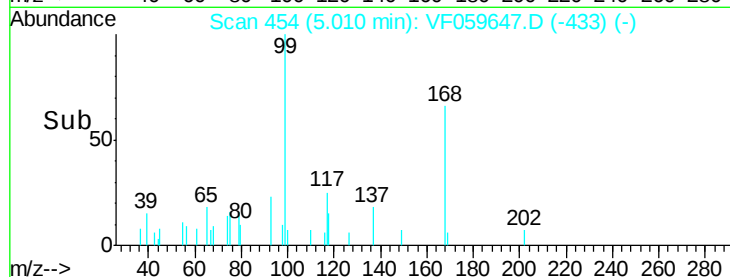
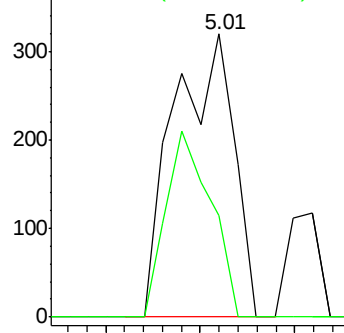
65 100

67 35.6 0.0 86.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 530

Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

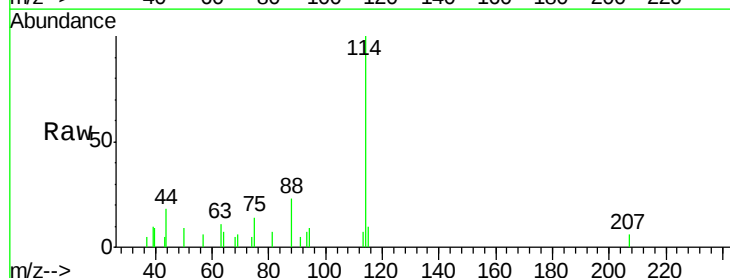
Tgt Ion: 114 Resp: 5407

Ion Ratio Lower Upper

114 100

63 10.8 0.0 45.6

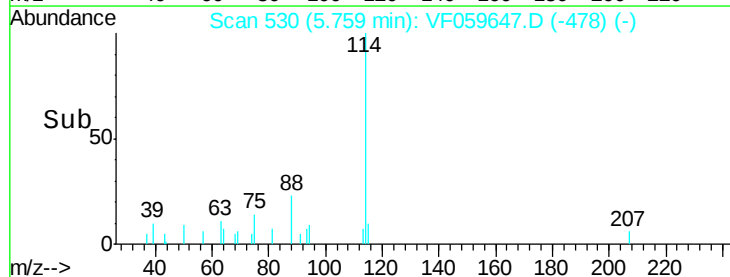
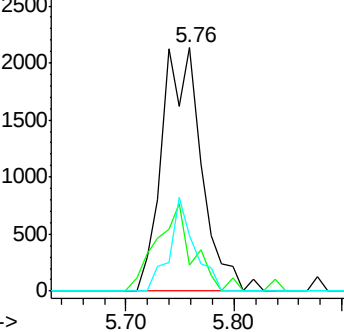
88 23.0 0.0 40.8

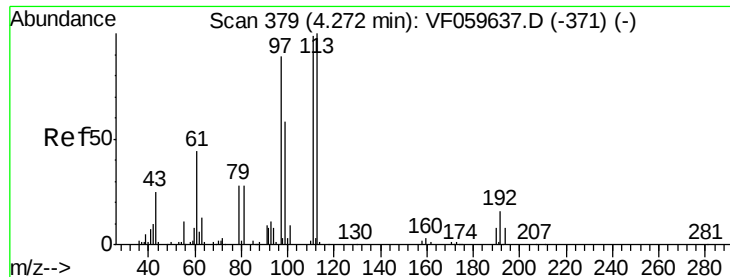


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

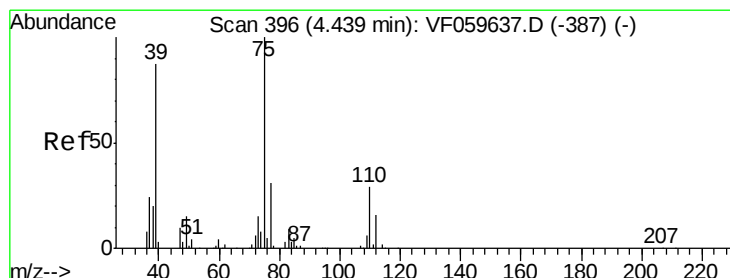
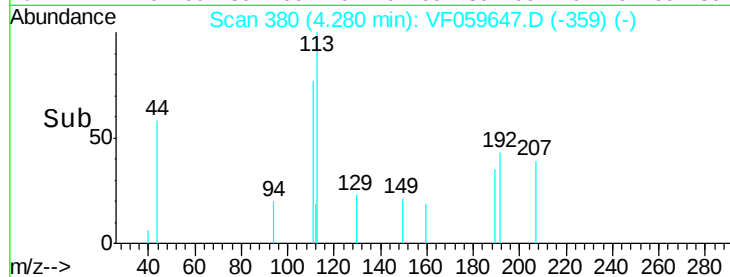
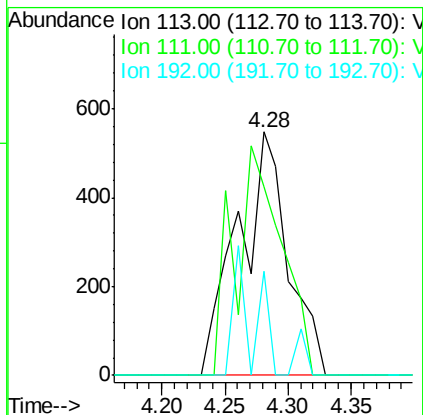
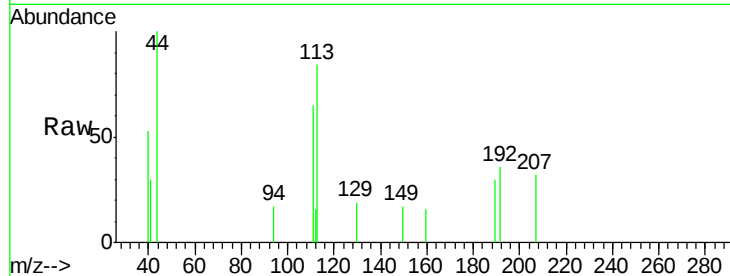




#35
 Dibromofluoromethane
 Concen: 31.113 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. 0.01 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

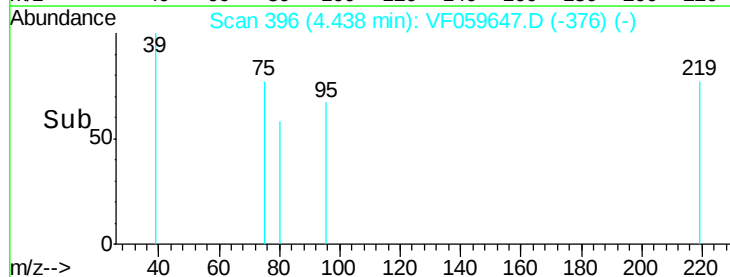
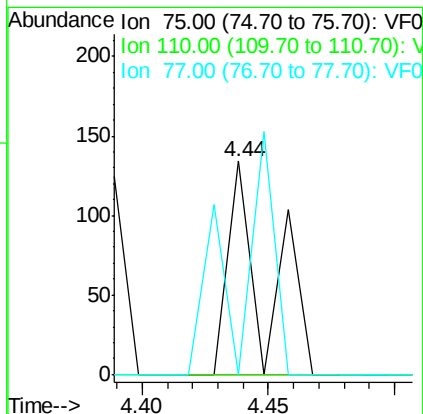
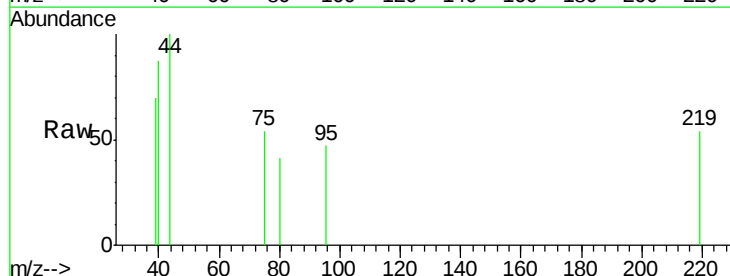
Instrument :
 MSVOA_F
 ClientSampleId :

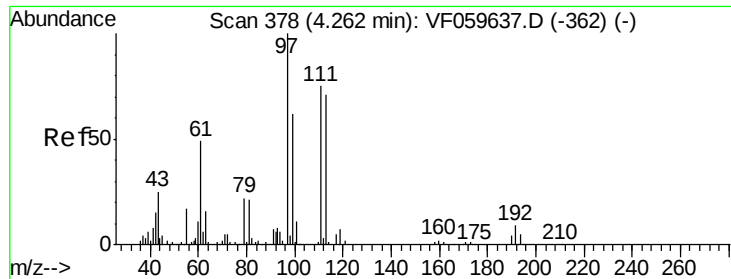
Tot Ion:113 Resp: 1514
 Ion Ratio Lower Upper
 113 100
 111 77.4 79.3 118.9#
 192 42.7 13.4 20.2#



#36
 1,1-Dichloropropene
 Concen: 2.545 ug/l
 RT: 4.44 min Scan# 396
 Delta R.T. -0.00 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Tgt Ion: 75 Resp: 141
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.6 43.8#
 77 0.0 24.4 36.6#

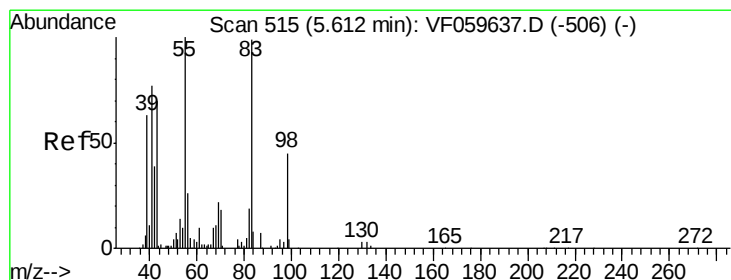
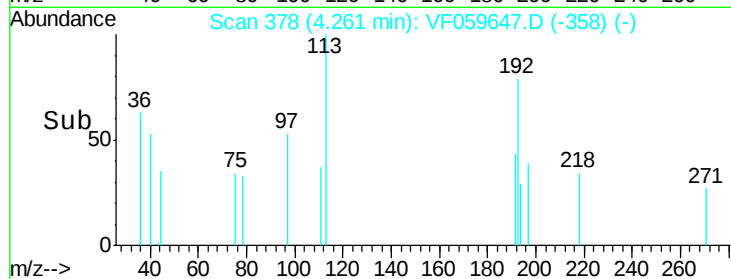
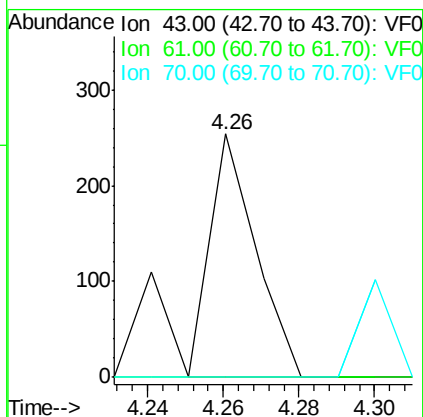
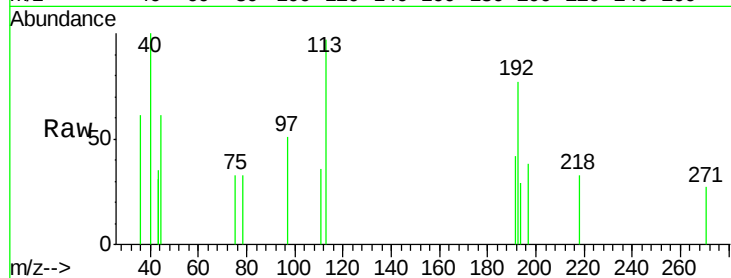




#37
Ethyl Acetate
Concen: 7.257 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.00 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

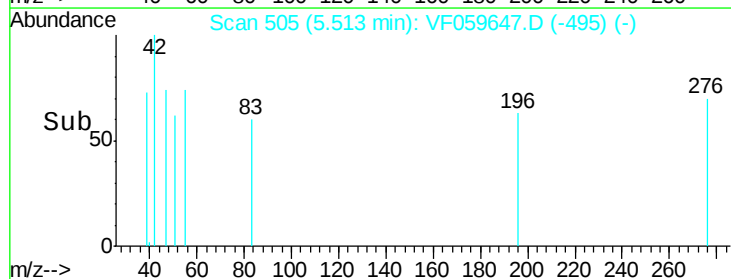
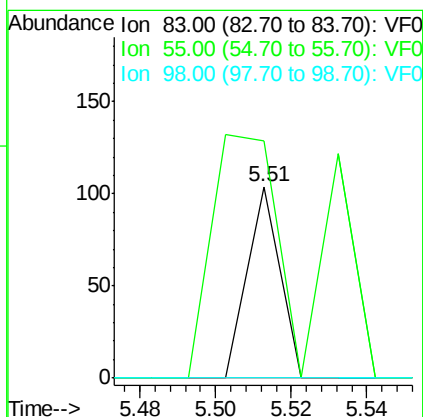
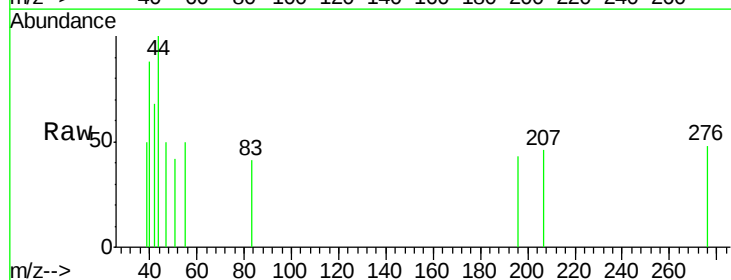
Instrument :
MSVOA_F
ClientSampleId :

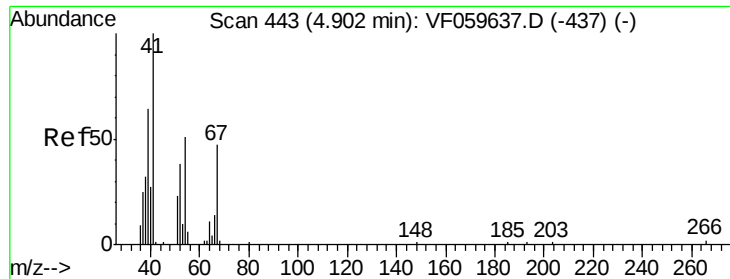
Tot Ion: 43 Resp: 211
Ion Ratio Lower Upper
43 100
61 0.0 156.6 234.8#
70 0.0 7.3 10.9#



#39
Methylcyclohexane
Concen: 1.380 ug/l
RT: 5.51 min Scan# 505
Delta R.T. -0.10 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

Tgt Ion: 83 Resp: 62
Ion Ratio Lower Upper
83 100
55 124.0 81.5 122.3#
98 0.0 36.7 55.1#

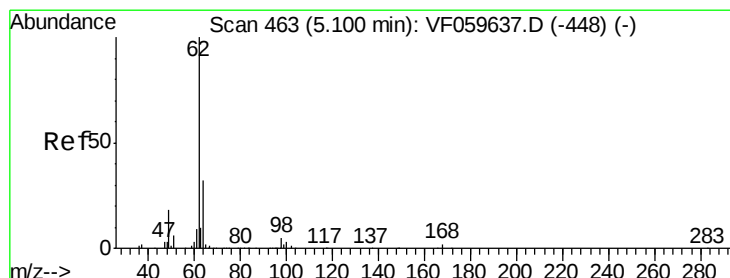
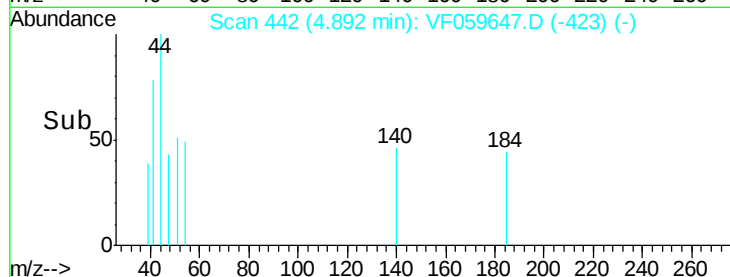
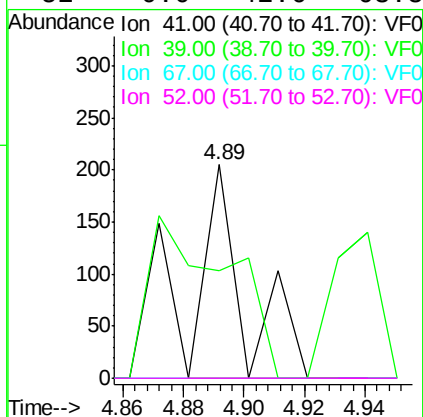
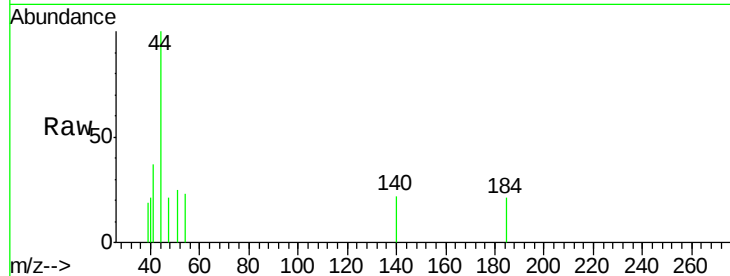




#41
Methacrylonitrile
Concen: 17.564 ug/l
RT: 4.89 min Scan# 442
Delta R.T. -0.01 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

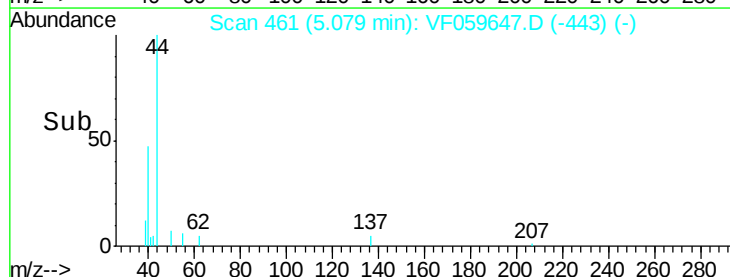
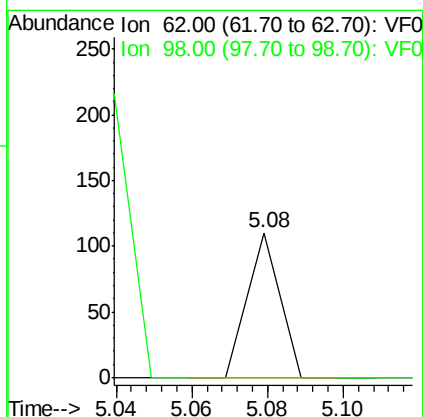
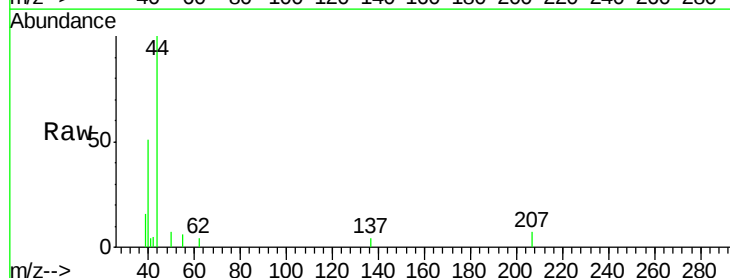
Instrument :
MSVOA_F
ClientSampled :

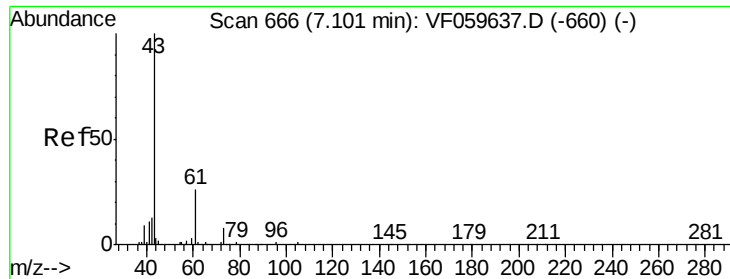
Tot Ion:	41	Resp:	182
Ion	Ratio	Lower	Upper
41	100		
39	50.2	56.9	85.3#
67	0.0	36.6	54.8#
52	0.0	42.6	63.8#



#42
1,2-Dichloroethane
Concen: 1.070 ug/l
RT: 5.08 min Scan# 461
Delta R.T. -0.02 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

Tgt Ion:	62	Resp:	65
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	10.6





#43

Isopropyl Acetate

Concen: 7.963 ug/l

RT: 7.10 min Scan# 666

Delta R.T. -0.00 min

Lab File: VF059647.D

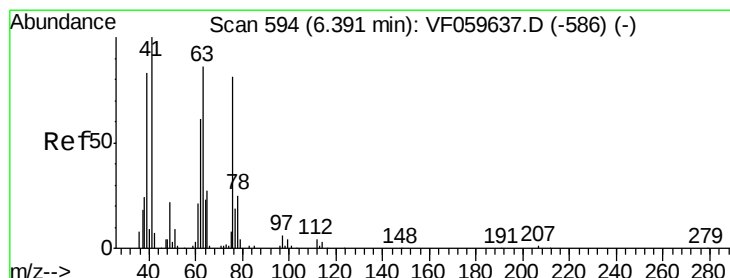
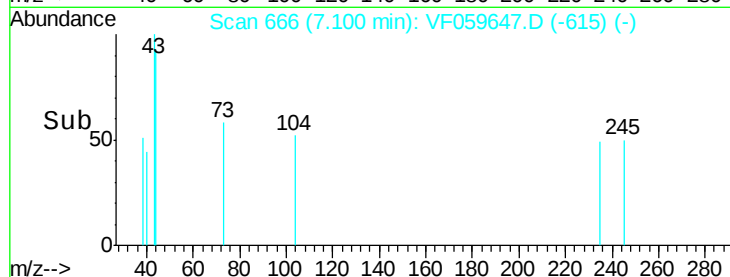
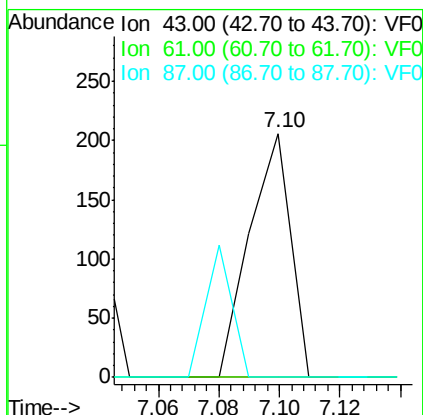
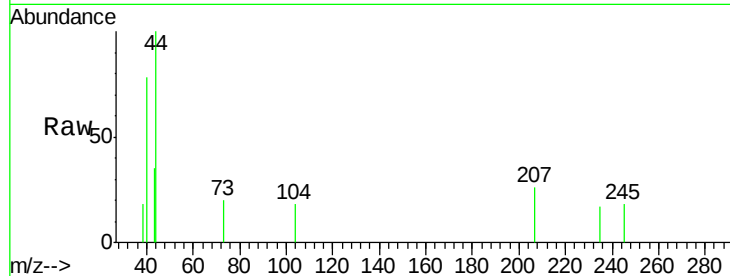
Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	43	Resp:	194
Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.5	30.7#
87	0.0	0.4	0.6#



#45

1,2-Dichloropropane

Concen: 2.659 ug/l

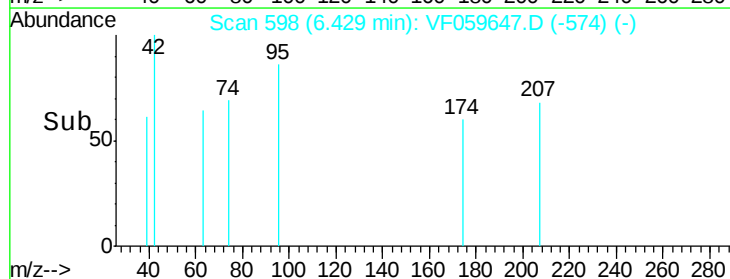
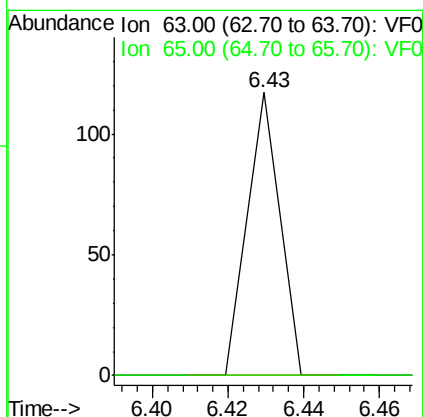
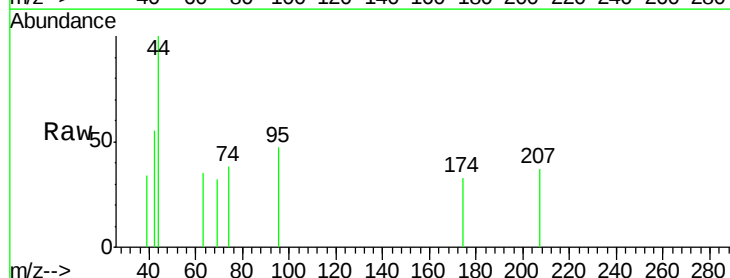
RT: 6.43 min Scan# 598

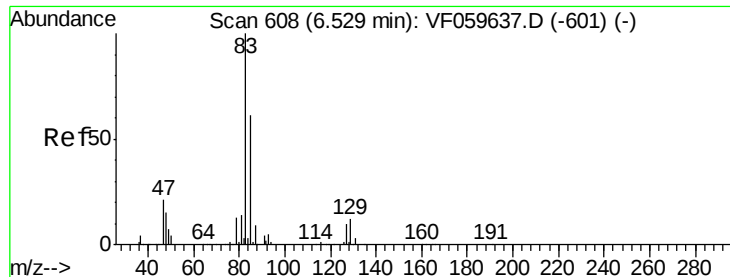
Delta R.T. 0.04 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion:	63	Resp:	69
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.1	37.7#





#47

Bromodichloromethane

Concen: 1.108 ug/l

RT: 6.56 min Scan# 611

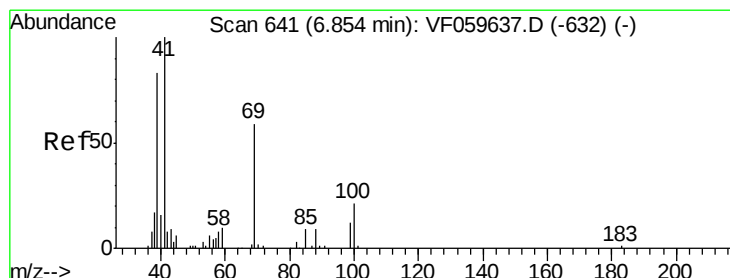
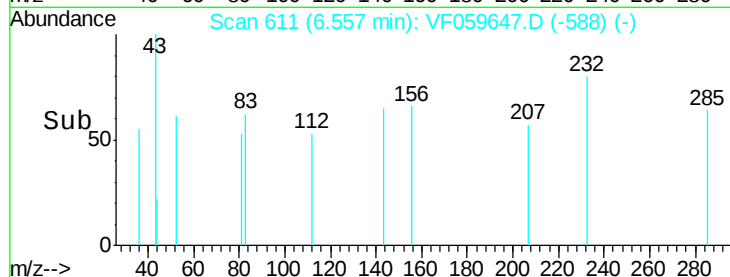
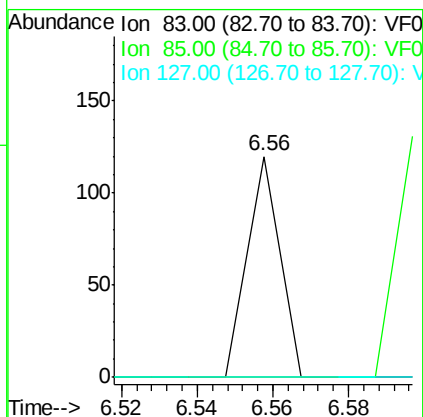
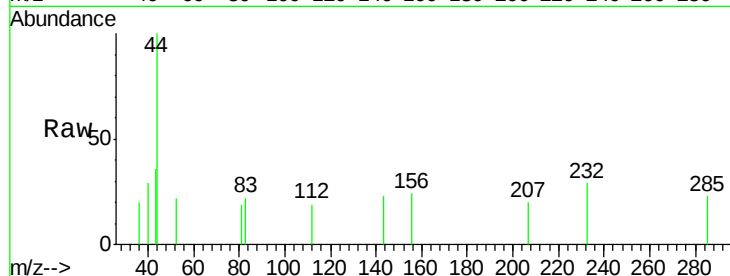
Delta R.T. 0.03 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	83	Resp:	71
Ion	Ratio	Lower	Upper
83	100		
85	0.0	48.6	72.8#
127	0.0	7.7	11.5#



#48

Methyl methacrylate

Concen: 15.556 ug/l

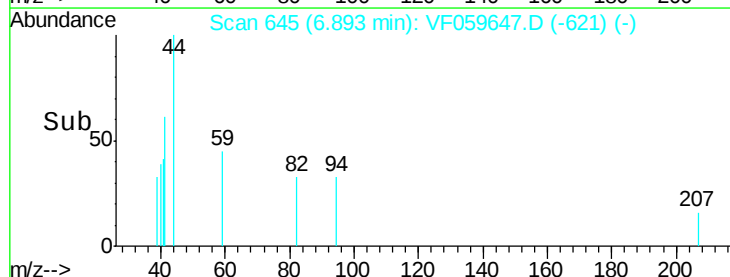
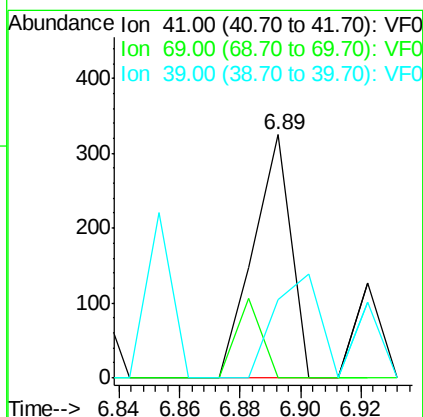
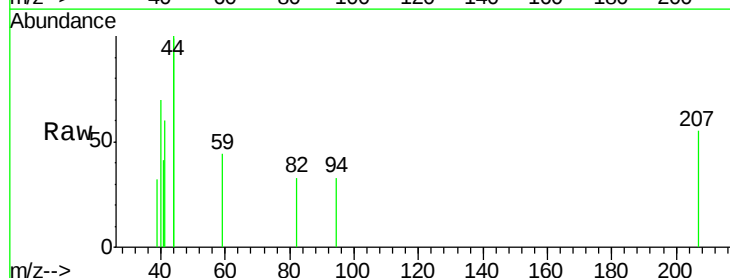
RT: 6.89 min Scan# 645

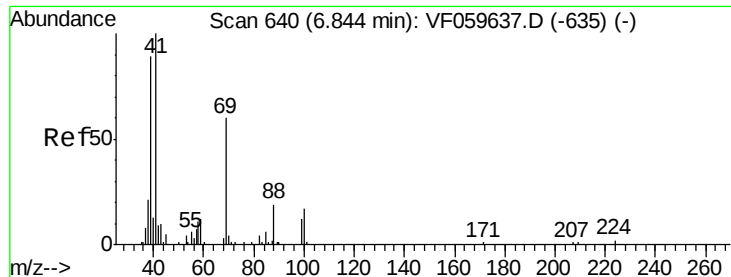
Delta R.T. 0.04 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion:	41	Resp:	279
Ion	Ratio	Lower	Upper
41	100		
69	0.0	47.5	71.3#
39	32.0	67.0	100.6#

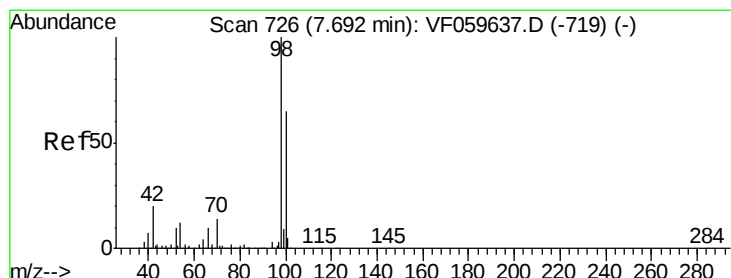
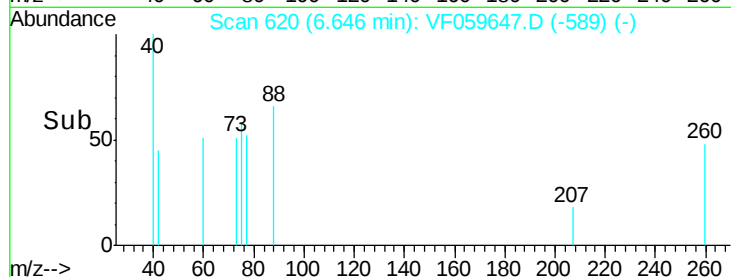
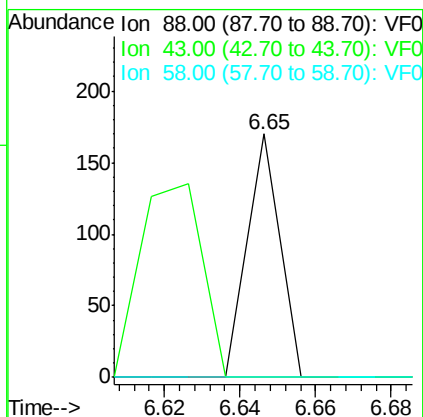
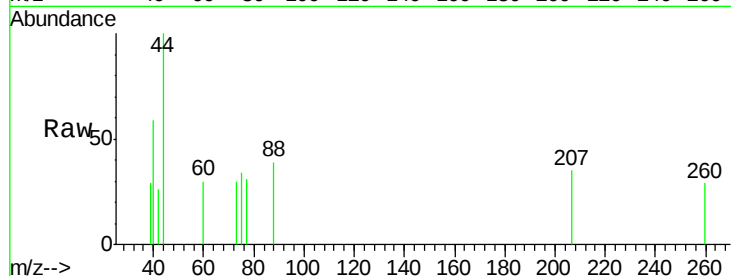




#49
 1,4-Dioxane
 Concen: 731.799 ug/l
 RT: 6.65 min Scan# 620
 Delta R.T. -0.20 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

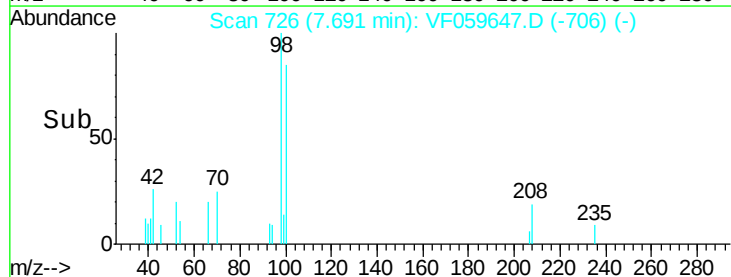
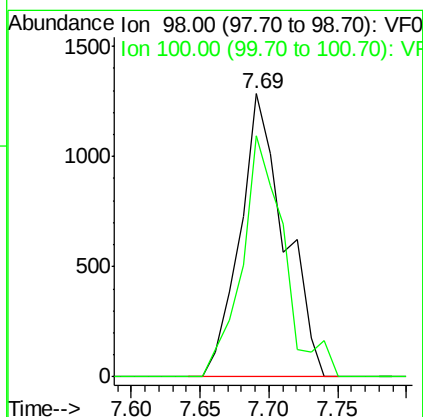
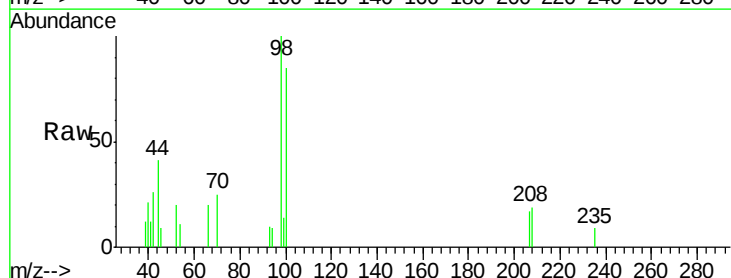
Instrument :
 MSVOA_F
 ClientSampled :

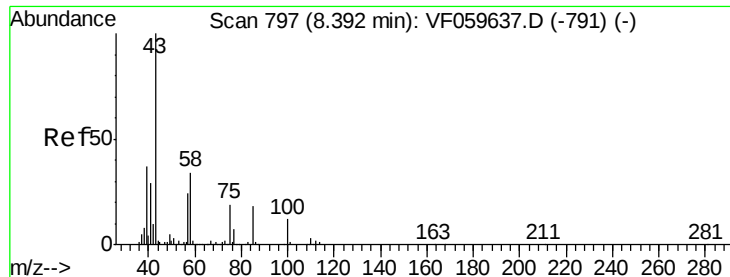
Tot Ion: 88 Resp: 101
 Ion Ratio Lower Upper
 88 100
 43 0.0 45.3 67.9#
 58 0.0 47.7 71.5#



#50
 Toluene-d8
 Concen: 24.392 ug/l
 RT: 7.69 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Tgt Ion: 98 Resp: 2893
 Ion Ratio Lower Upper
 98 100
 100 85.4 52.2 78.4#





#51

4-Methyl-2-Pentanone

Concen: 5.249 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

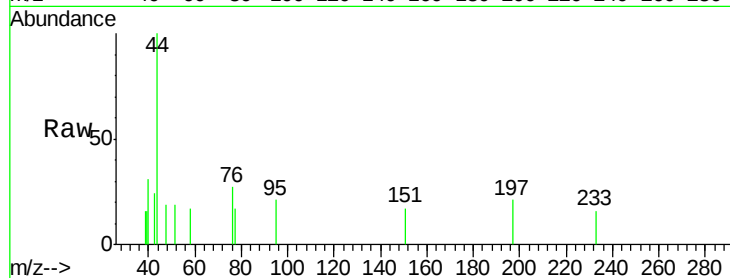
ClientSampled :

Tot Ion: 43 Resp: 94

Ion Ratio Lower Upper

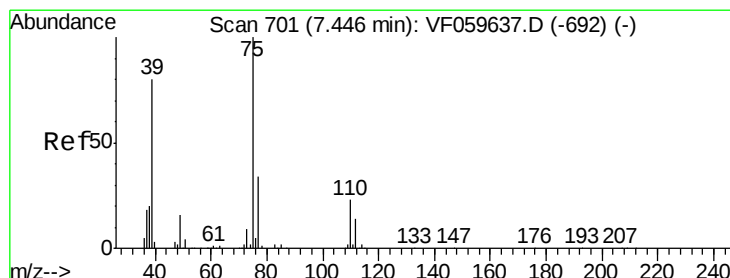
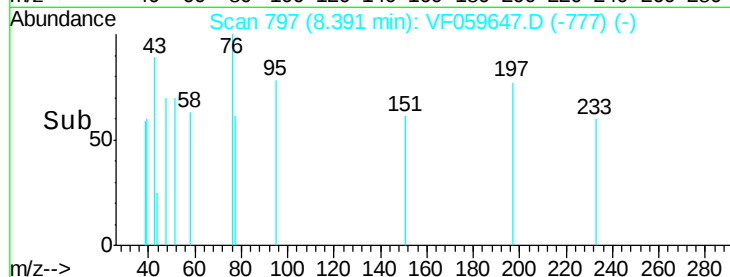
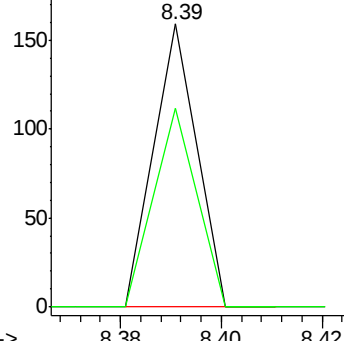
43 100

58 70.4 27.3 40.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 1.408 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

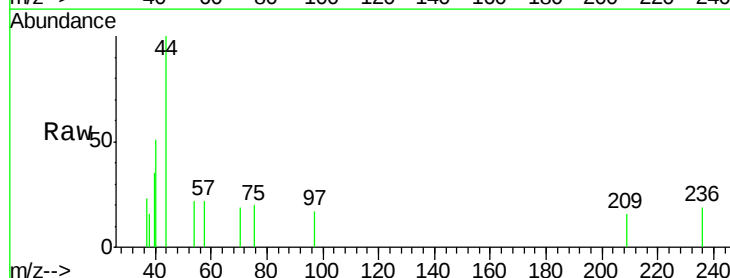
Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

77 0.0 27.5 41.3#

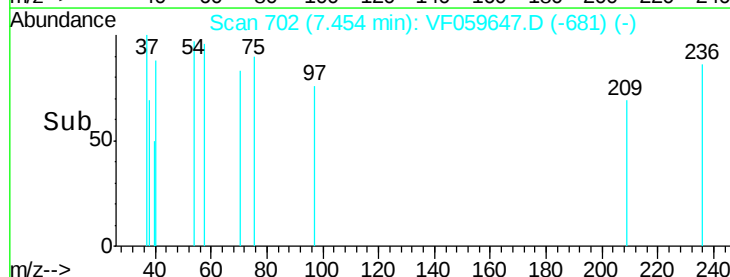
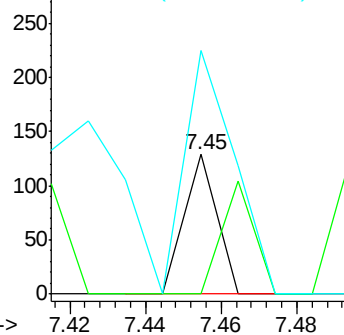
39 174.4 64.4 96.6#

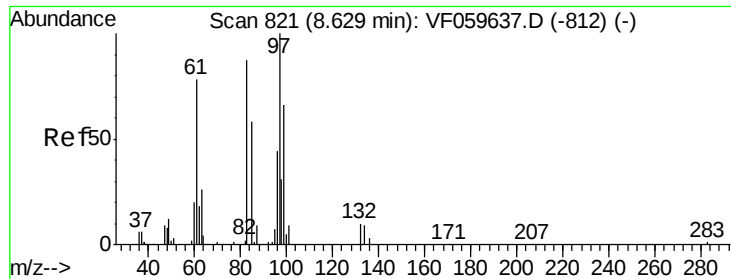


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 2.932 ug/l

RT: 8.65 min Scan# 823

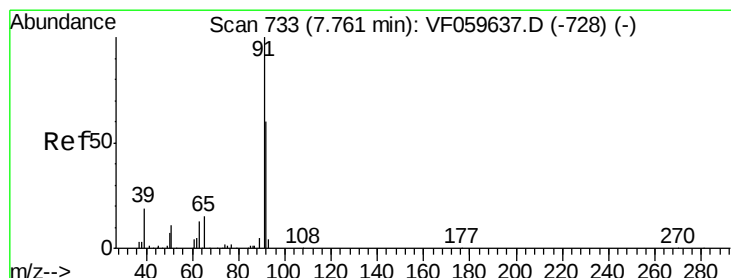
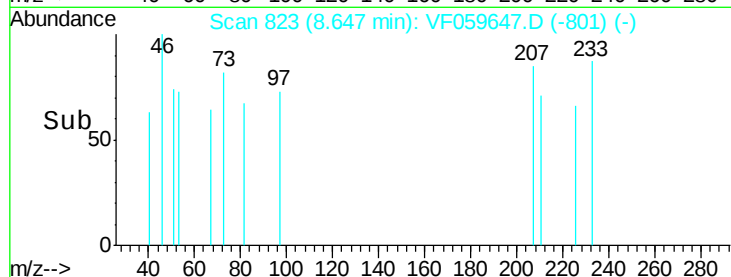
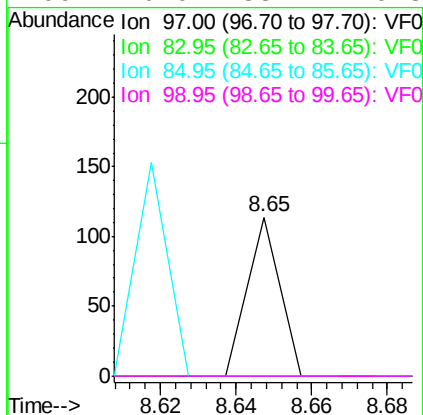
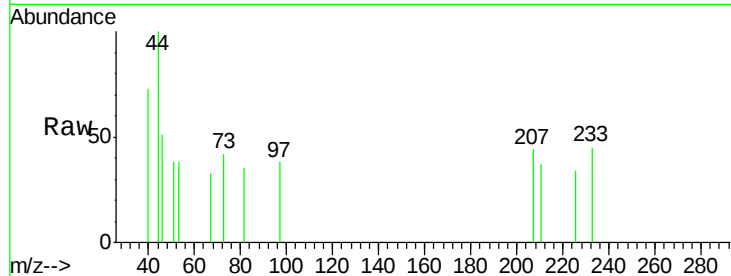
Delta R.T. 0.02 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	97	Resp:	67
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.5	104.3#
85	0.0	46.0	69.0#
99	0.0	53.2	79.8#



#58

2-Chloroethyl Vinyl ether

Concen: 42.424 ug/l

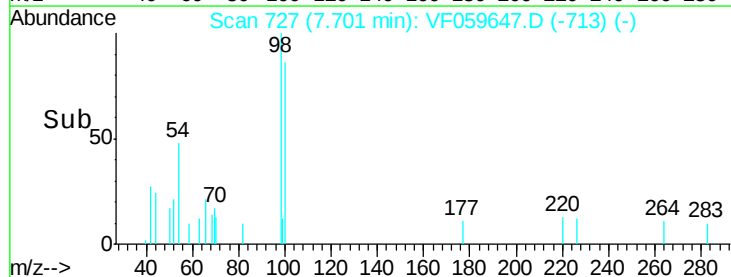
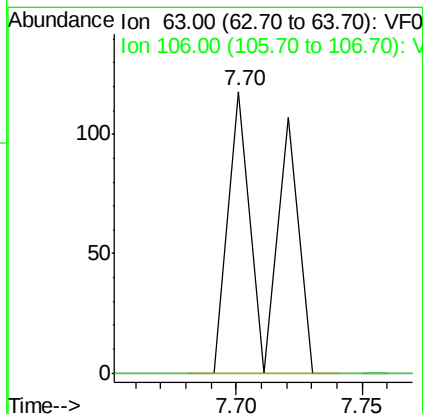
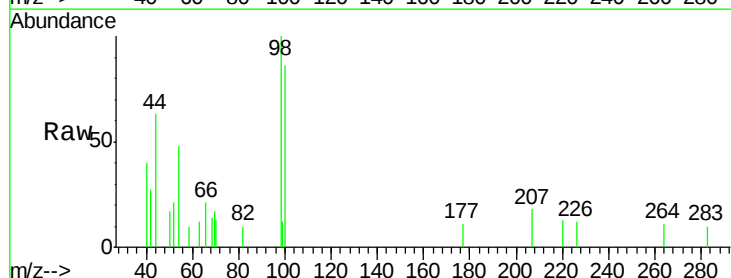
RT: 7.70 min Scan# 727

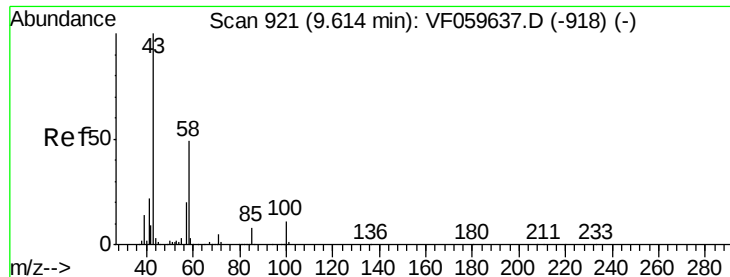
Delta R.T. -0.06 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion:	63	Resp:	133
Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0

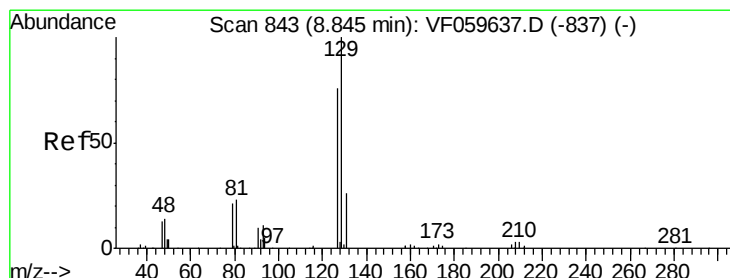
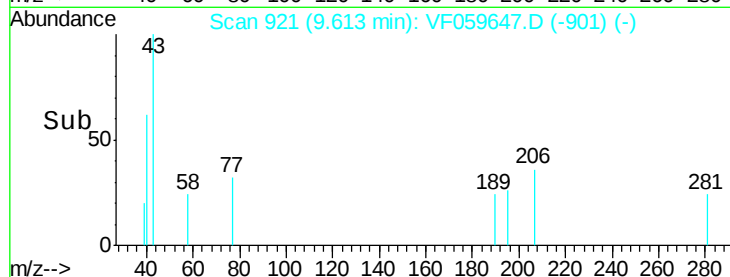
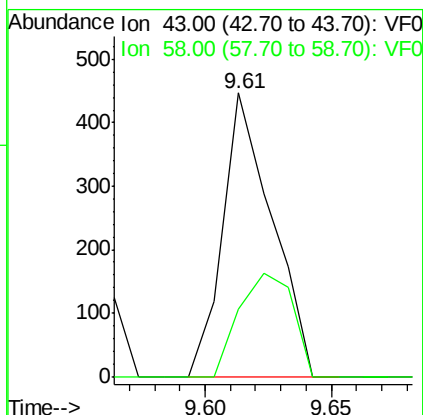
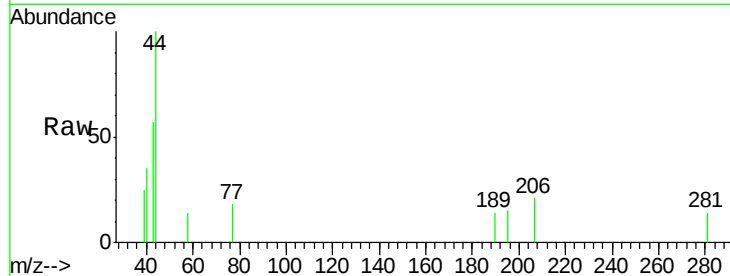




#59
2-Hexanone
Concen: 44.389 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.00 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

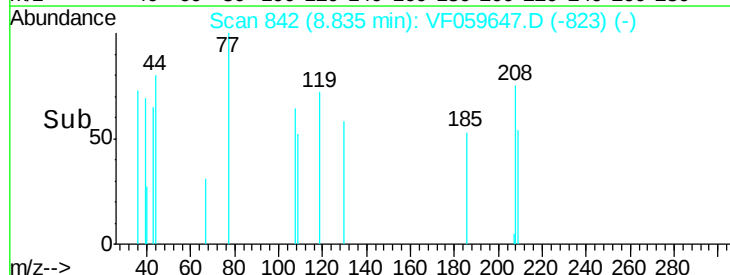
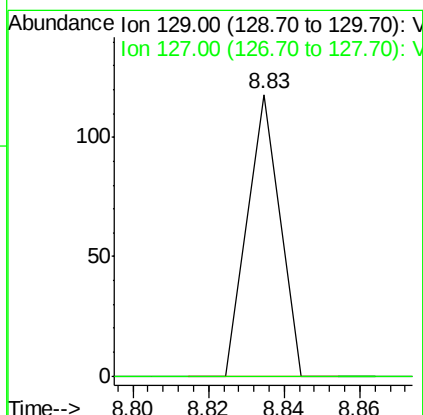
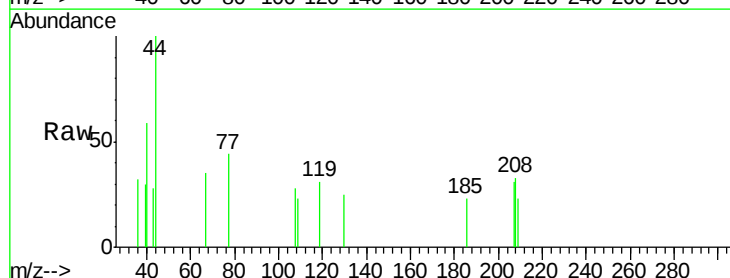
Instrument :
MSVOA_F
ClientSampled :

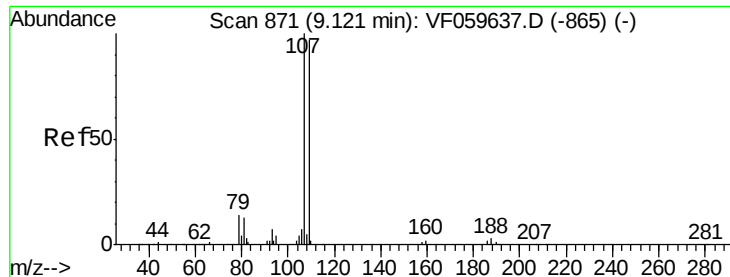
Tot Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
58 23.7 23.6 71.0



#60
Dibromochloromethane
Concen: 1.657 ug/l
RT: 8.83 min Scan# 842
Delta R.T. -0.01 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

Tgt Ion: 129 Resp: 70
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.5#





#61

1,2-Dibromoethane

Concen: 5.412 ug/l

RT: 9.22 min Scan# 881

Delta R.T. 0.10 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

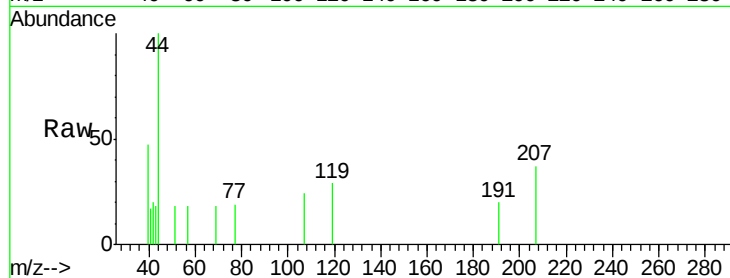
ClientSampleId :

Tot Ion:107 Resp: 151

Ion Ratio Lower Upper

107 100

109 0.0 77.3 115.9#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.22

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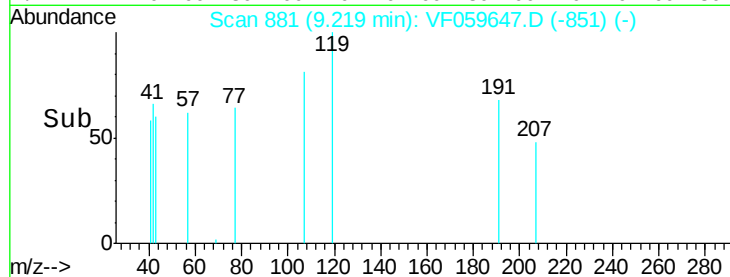
9.22

9.22

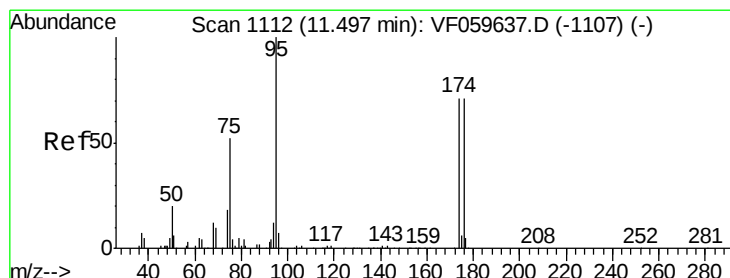
9.22

9.22

9.22



Time-->



#62

4-Bromofluorobenzene

Concen: 17.409 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

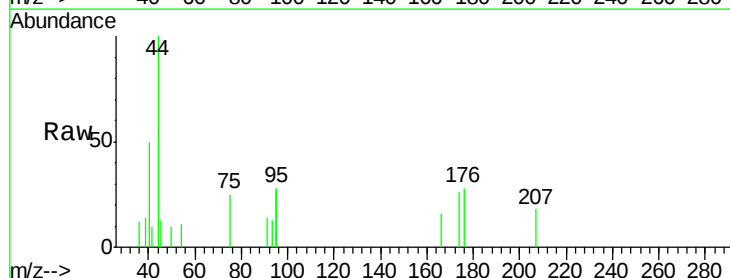
Tgt Ion: 95 Resp: 1061

Ion Ratio Lower Upper

95 100

174 47.2 0.0 141.8

176 51.6 0.0 142.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.51

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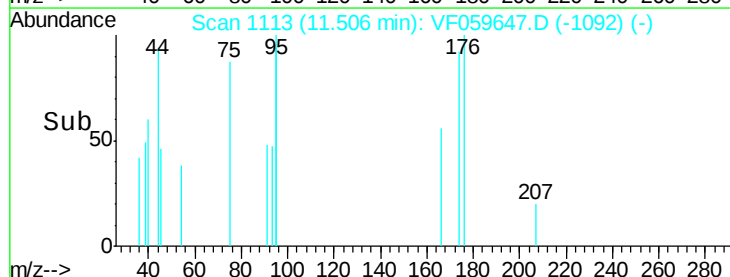
11.51

11.51

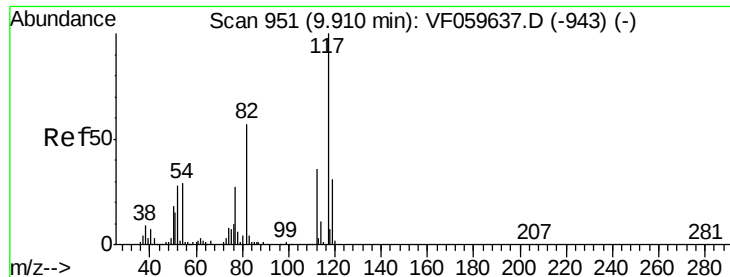
11.51

11.51

11.51



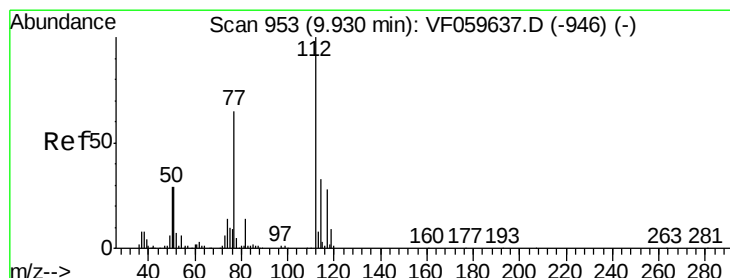
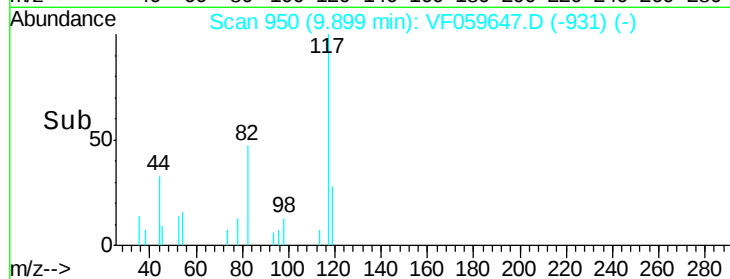
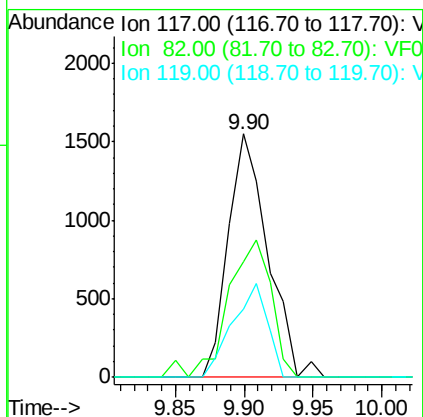
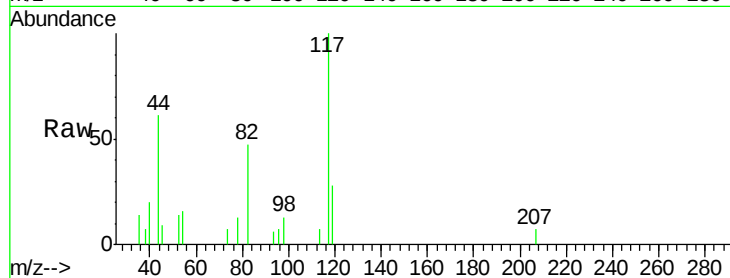
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

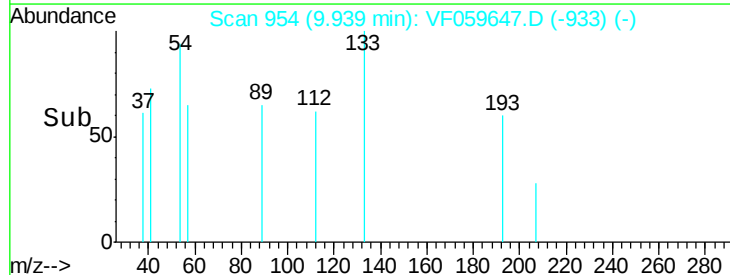
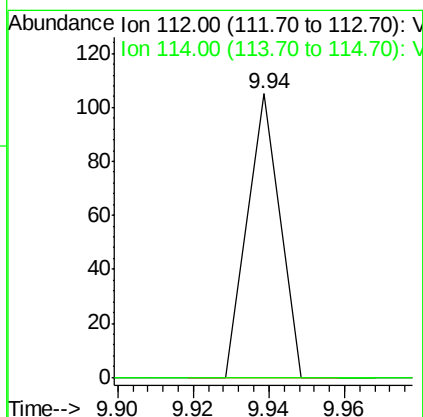
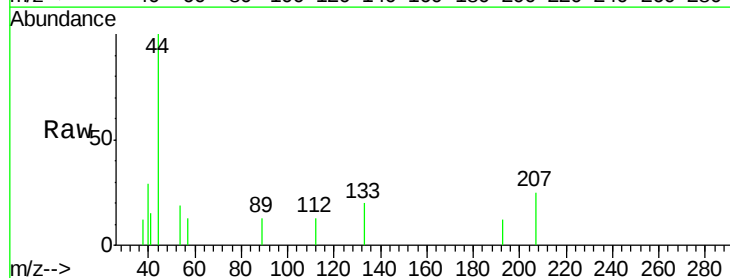
Instrument :
MSVOA_F
ClientSampleId :

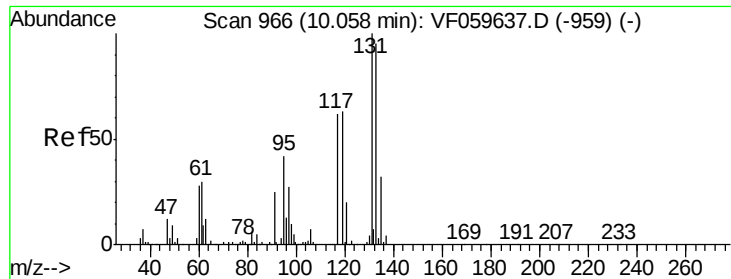
Tot Ion	Ratio	Lower	Upper
117	100		
82	47.4	45.9	68.9
119	28.3	25.1	37.7



#65
Chlorobenzene
Concen: 1.077 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.01 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

Tgt Ion	Ratio	Lower	Upper
112	100		
114	0.0	26.4	39.6#





#66

1,1,1,2-Tetrachloroethane

Concen: 4.124 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.13 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

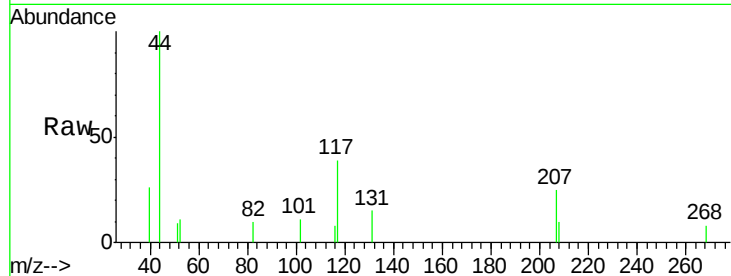
Tot Ion:131 Resp: 110

Ion Ratio Lower Upper

131 100

133 0.0 47.5 142.6#

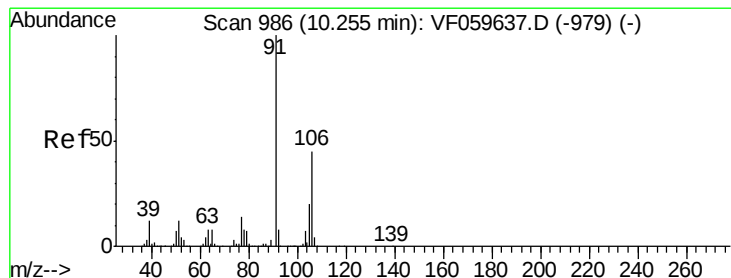
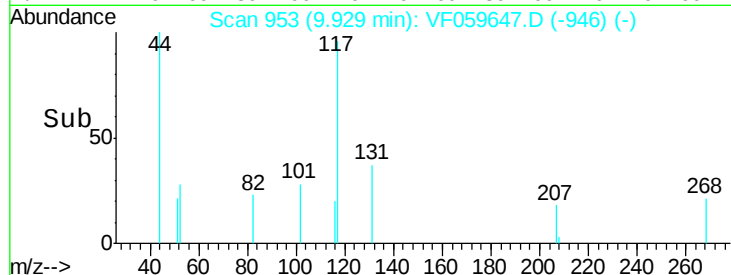
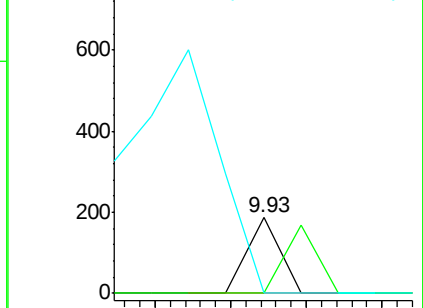
119 0.0 31.8 95.4#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#68

m/p-Xylenes

Concen: 2.138 ug/l

RT: 10.33 min Scan# 994

Delta R.T. 0.08 min

Lab File: VF059647.D

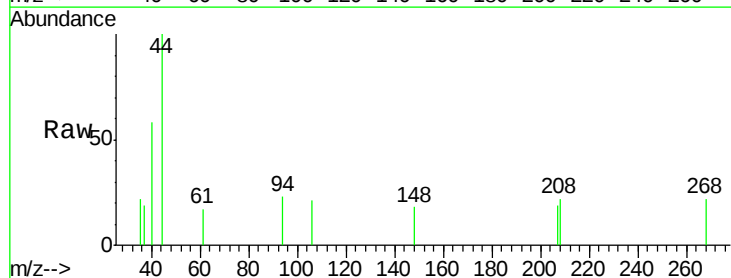
Acq: 24 Jul 2018 23:03

Tgt Ion:106 Resp: 79

Ion Ratio Lower Upper

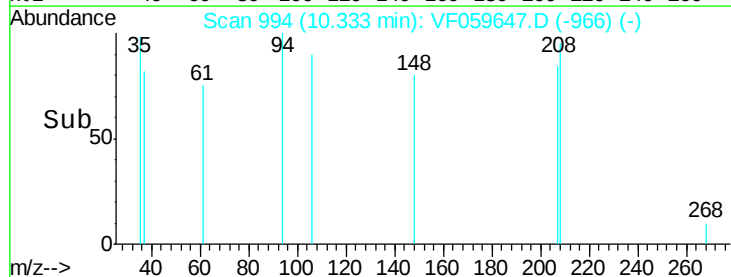
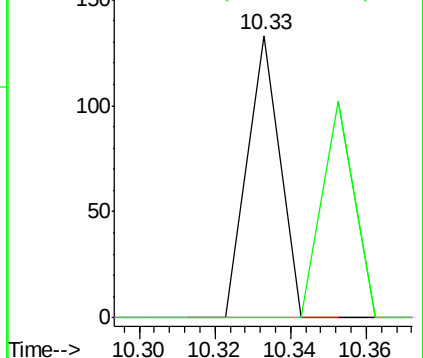
106 100

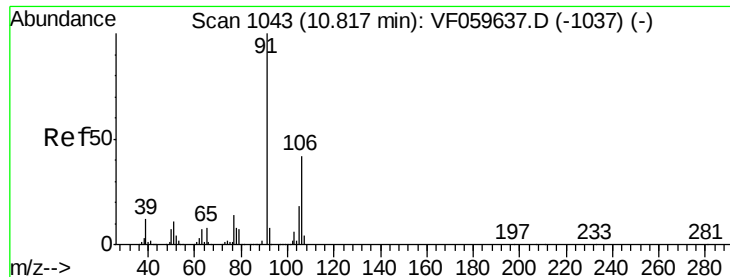
91 0.0 177.8 266.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

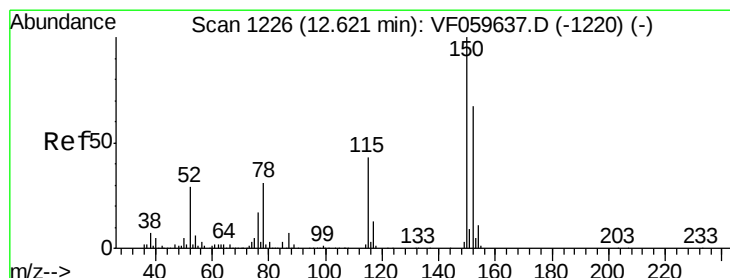
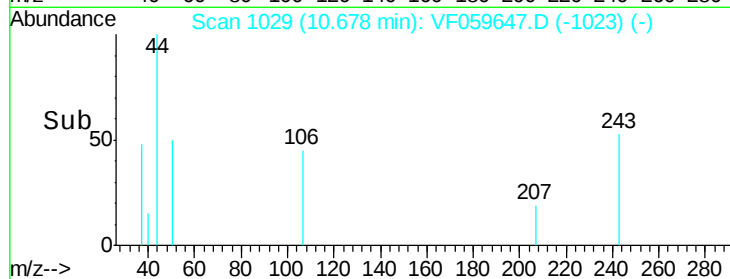
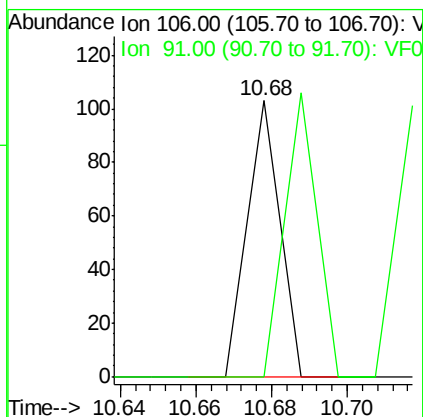
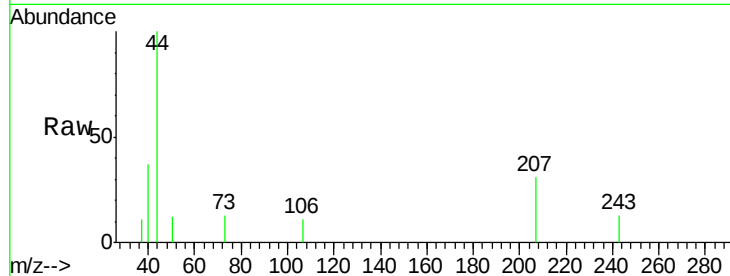




#69
o-Xylene
Concen: 1.551 ug/l
RT: 10.68 min Scan# 1029
Delta R.T. -0.14 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

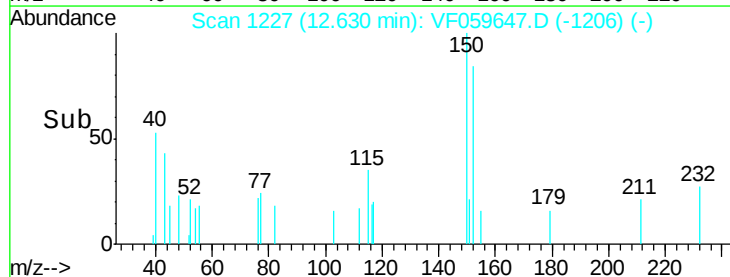
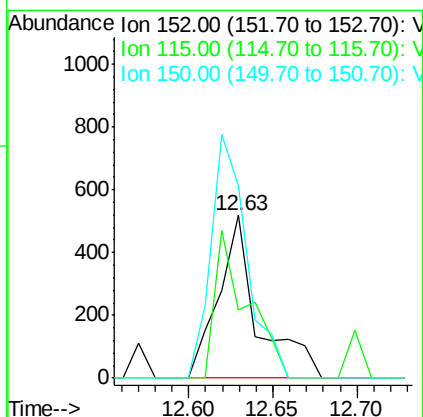
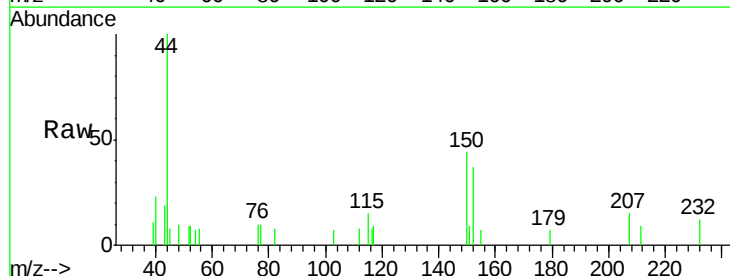
Instrument :
MSVOA_F
ClientSampled :

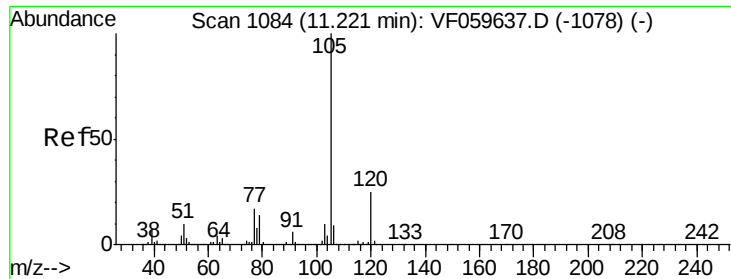
Tot Ion:106 Resp: 61
Ion Ratio Lower Upper
106 100
91 0.0 119.3 357.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF059647.D
Acq: 24 Jul 2018 23:03

Tgt Ion:152 Resp: 847
Ion Ratio Lower Upper
152 100
115 41.9 32.0 96.2
150 118.5 0.0 313.2





#73

Isopropylbenzene

Concen: 1.259 ug/l

RT: 11.33 min Scan# 1095

Delta R.T. 0.11 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

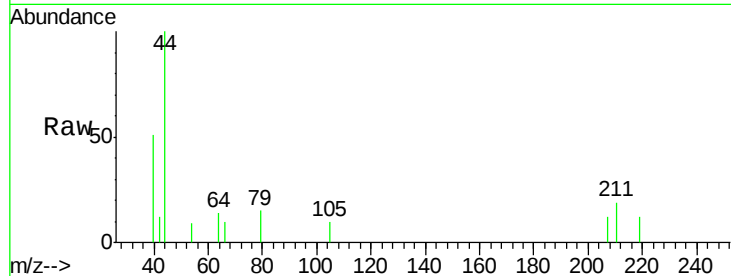
ClientSampled :

Tot Ion:105 Resp: 67

Ion Ratio Lower Upper

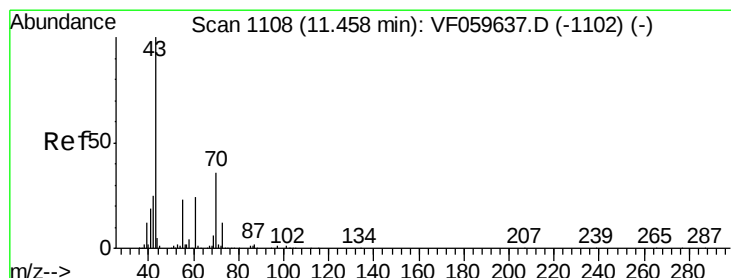
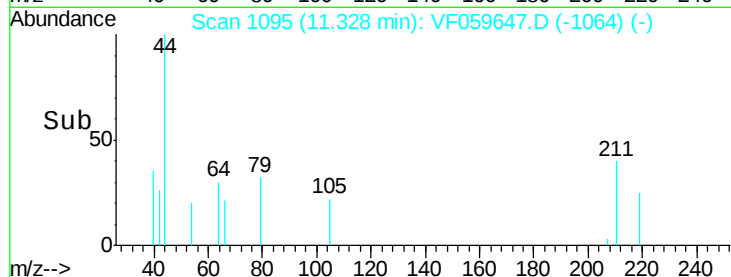
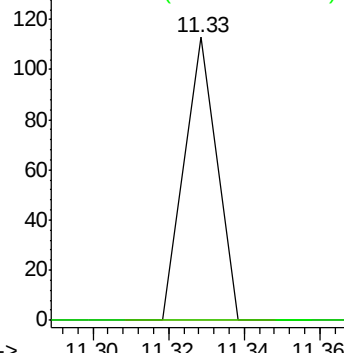
105 100

120 0.0 12.6 37.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 29.962 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion: 43 Resp: 342

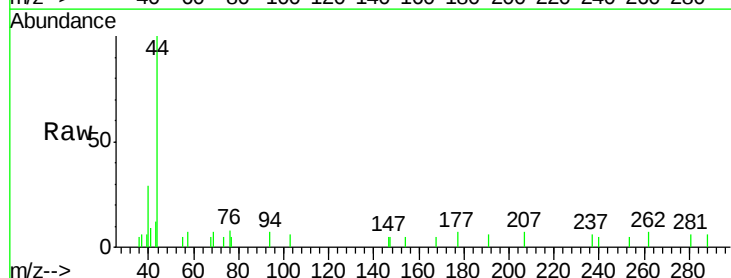
Ion Ratio Lower Upper

43 100

70 0.0 29.4 44.0#

55 44.6 18.2 27.4#

61 0.0 18.9 28.3#

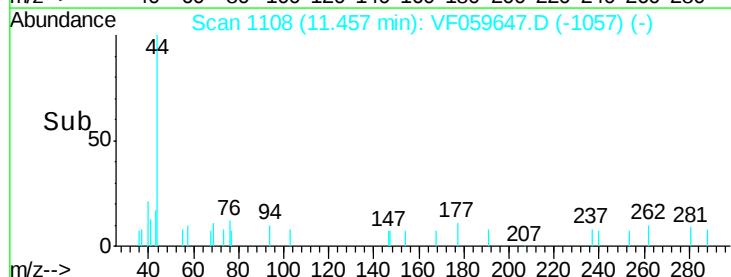
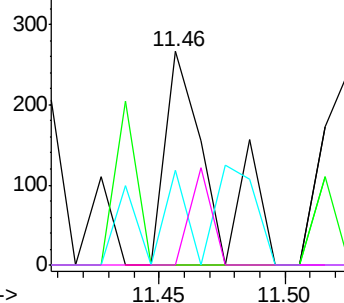


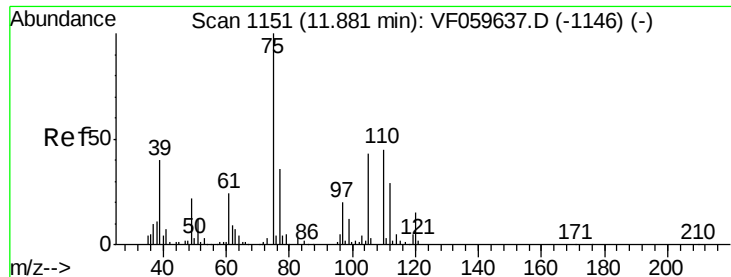
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#76

1,2,3-Trichloropropane

Concen: 11.113 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

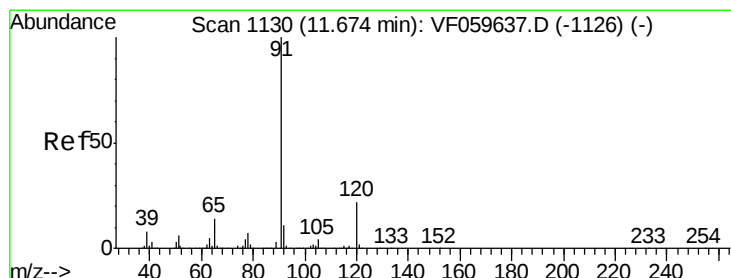
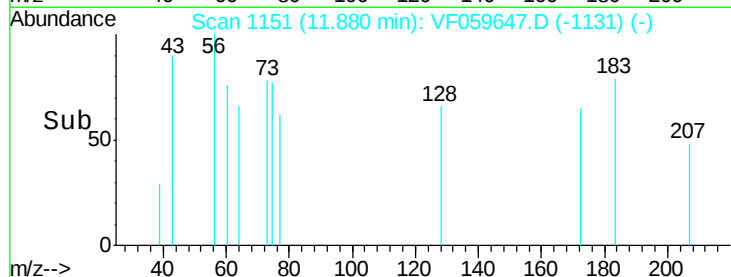
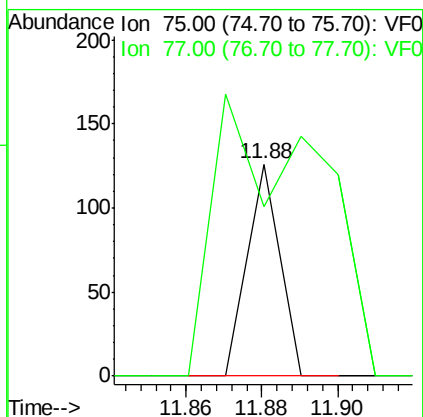
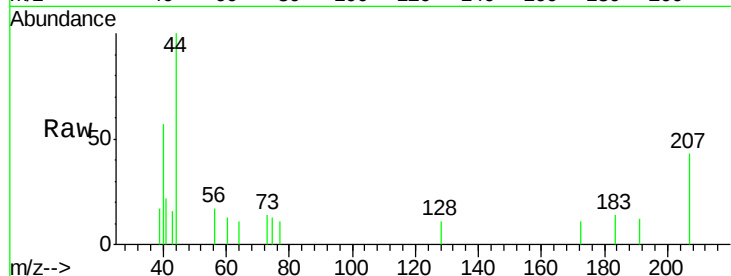
ClientSampled :

Tot Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

77 80.2 18.4 55.0#



#78

n-propylbenzene

Concen: 1.483 ug/l

RT: 11.72 min Scan# 1135

Delta R.T. 0.05 min

Lab File: VF059647.D

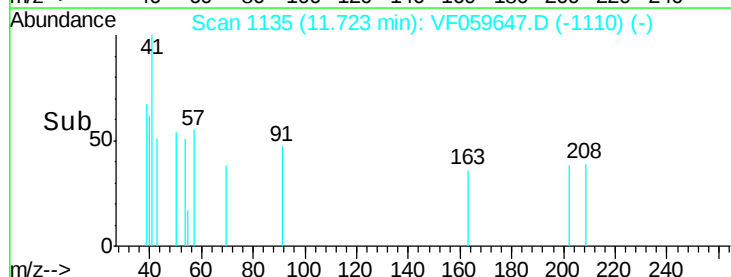
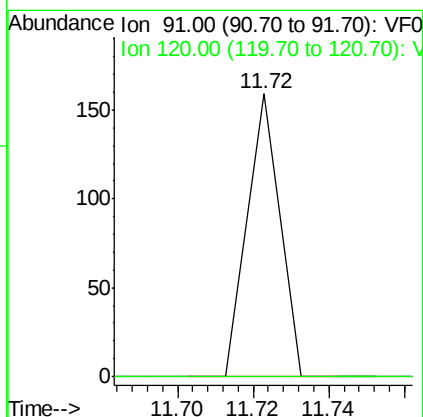
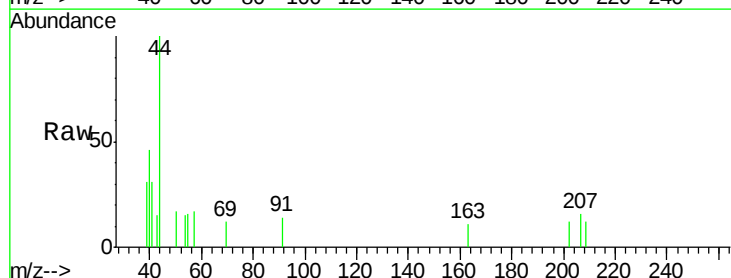
Acq: 24 Jul 2018 23:03

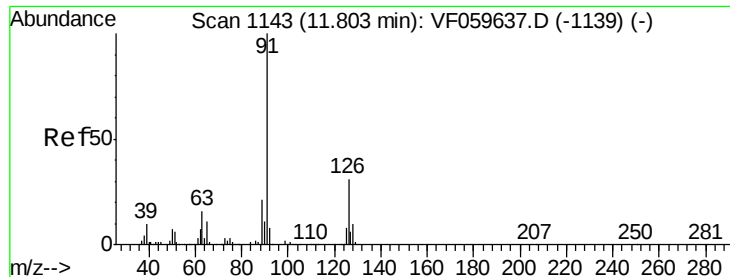
Tgt Ion: 91 Resp: 94

Ion Ratio Lower Upper

91 100

120 0.0 10.8 32.4#





#79

2-Chlorotoluene

Concen: 1.783 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.03 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

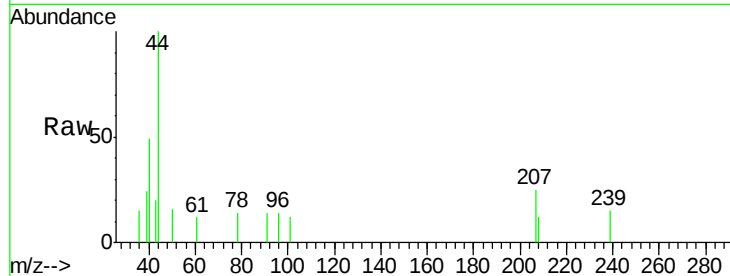
ClientSampleId :

Tot Ion: 91 Resp: 68

Ion Ratio Lower Upper

91 100

126 0.0 15.4 46.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

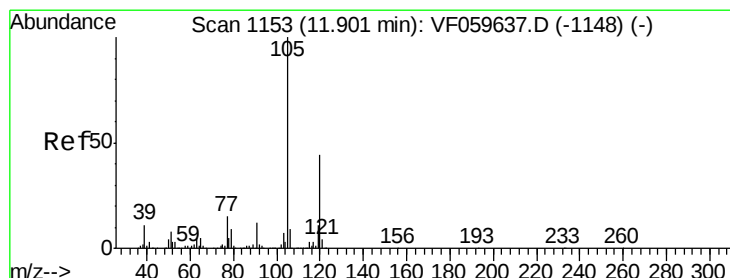
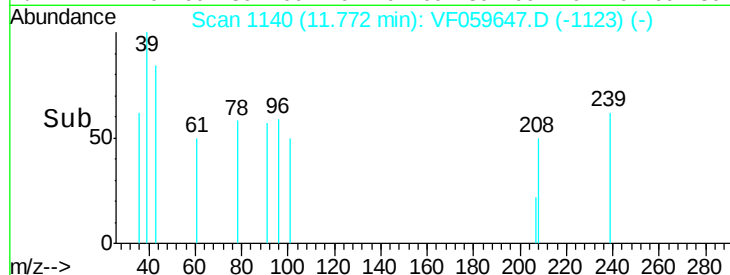
11.77

100

50

0

Time--> 11.74 11.76 11.78 11.80



#80

1,3,5-Trimethylbenzene

Concen: 1.797 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.09 min

Lab File: VF059647.D

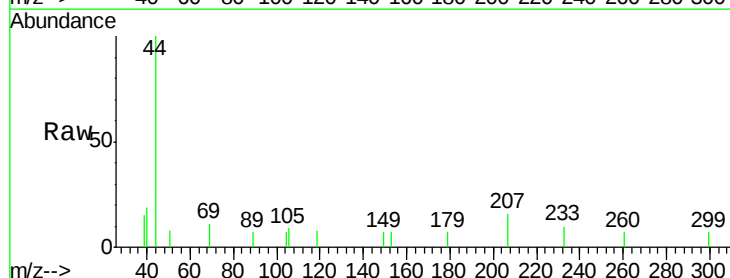
Acq: 24 Jul 2018 23:03

Tgt Ion: 105 Resp: 85

Ion Ratio Lower Upper

105 100

120 0.0 21.8 65.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.99

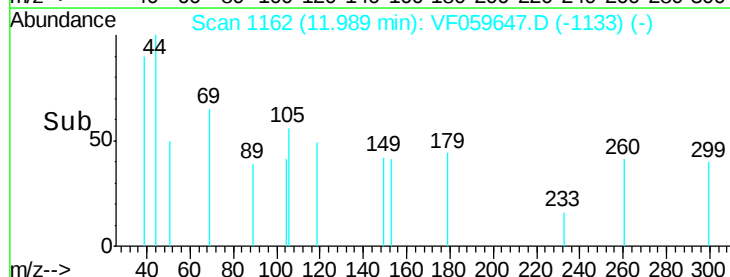
150

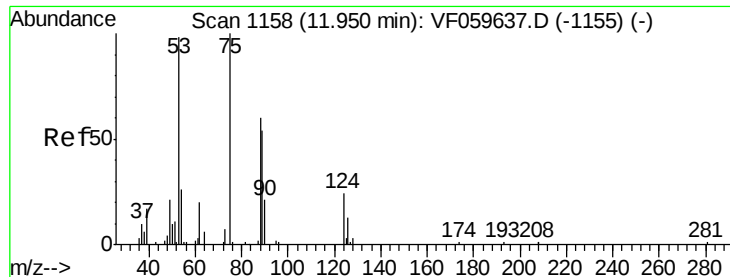
100

50

0

Time--> 11.96 11.98 12.00 12.02





#81

trans-1,4-Dichloro-2-butene

Concen: 18.055 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.07 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

ClientSampled :

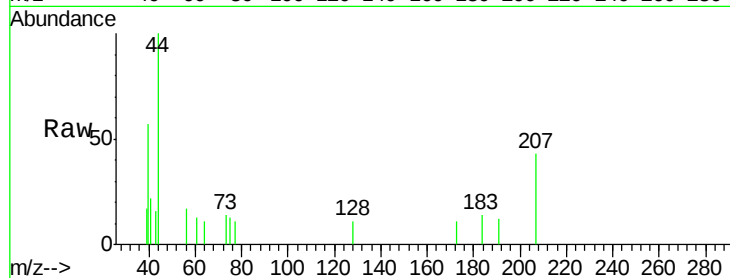
Tot Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

53 0.0 82.3 123.5#

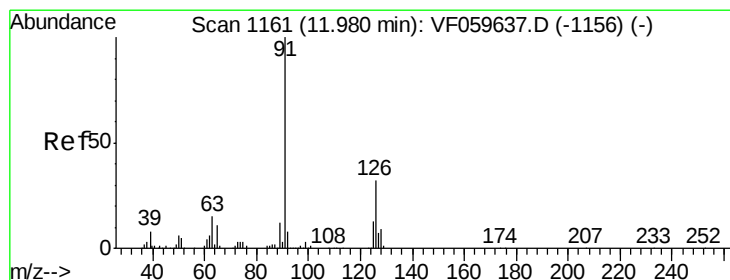
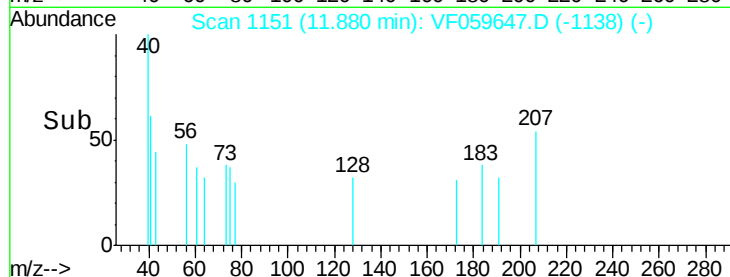
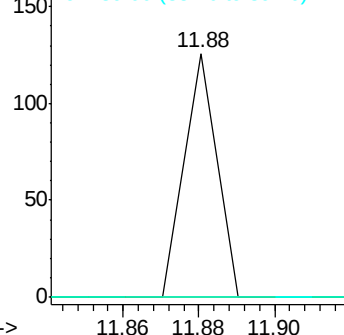
89 0.0 48.2 72.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 2.089 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VF059647.D

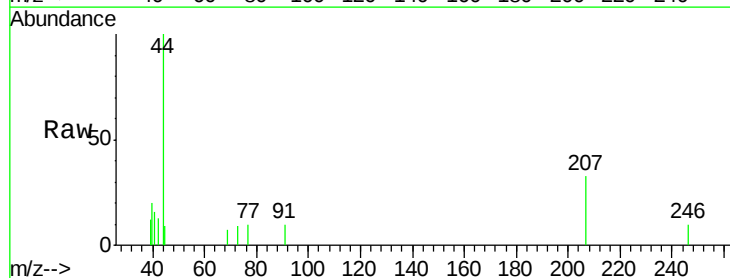
Acq: 24 Jul 2018 23:03

Tgt Ion: 91 Resp: 85

Ion Ratio Lower Upper

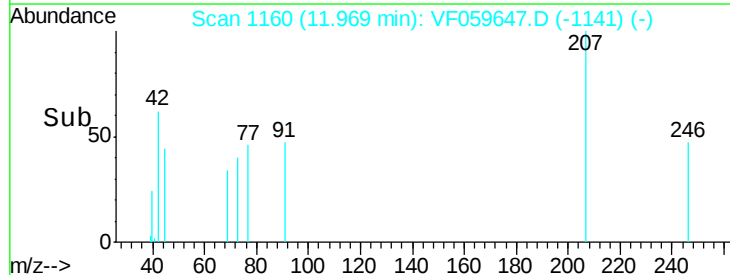
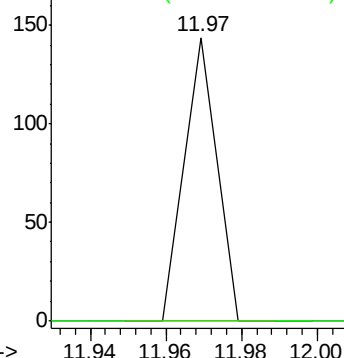
91 100

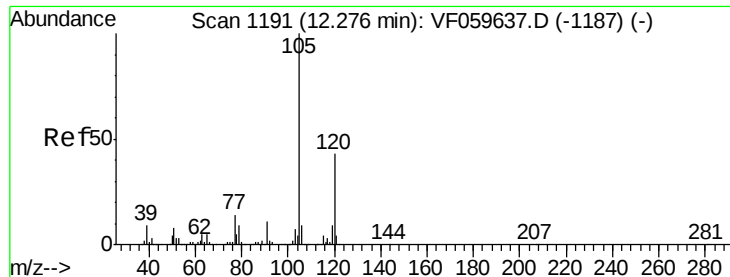
126 0.0 16.1 48.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

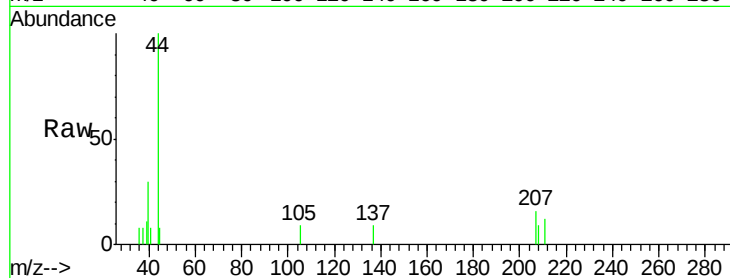




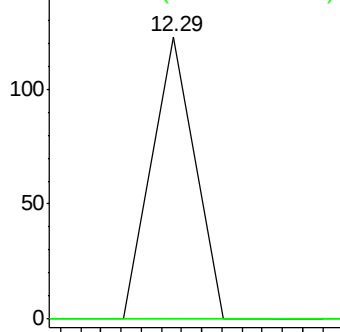
#84
 1,2,4-Trimethylbenzene
 Concen: 1.504 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. 0.02 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

Instrument :
 MSVOA_F
 ClientSampled :

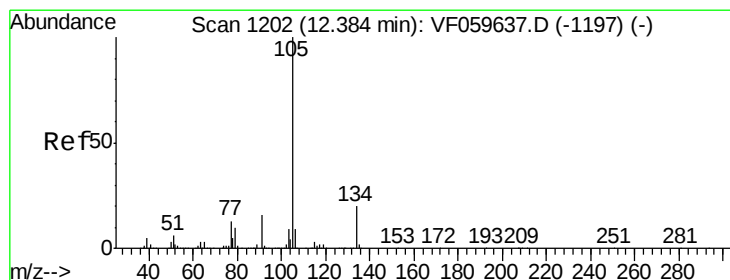
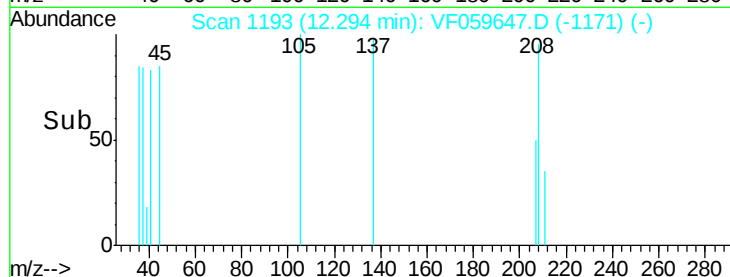
Tot Ion:105 Resp: 73
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.4 64.2#



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

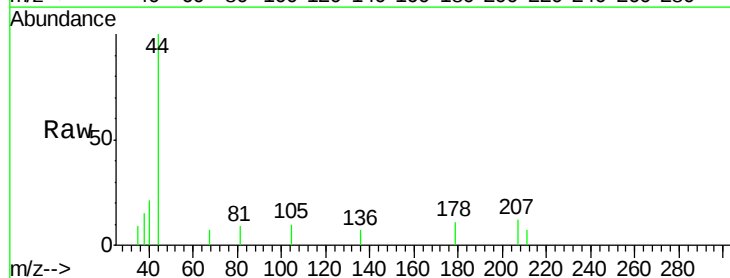


Time-->

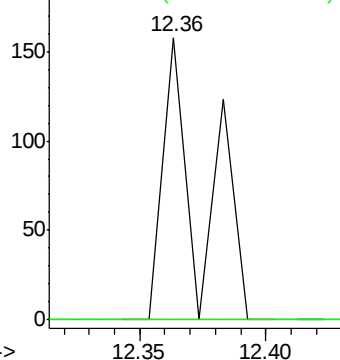


#85
 sec-Butylbenzene
 Concen: 2.611 ug/l
 RT: 12.36 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF059647.D
 Acq: 24 Jul 2018 23:03

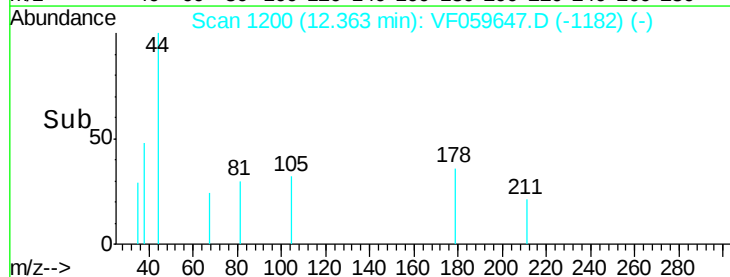
Tgt Ion:105 Resp: 166
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.9 29.7#

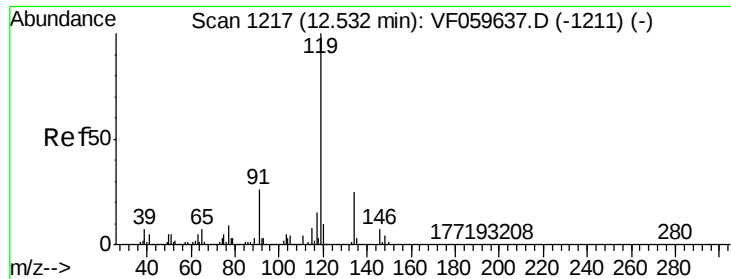


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V



Time-->





#86

p-Isopropyltoluene

Concen: 1.717 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.03 min

Lab File: VF059647.D

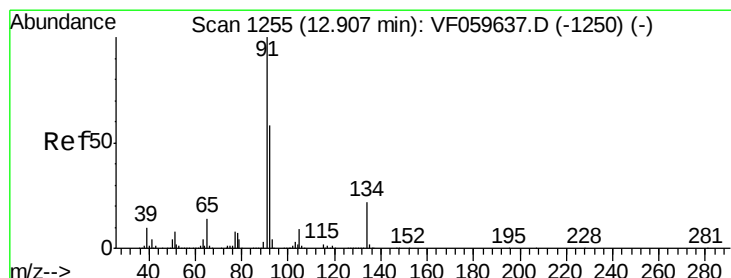
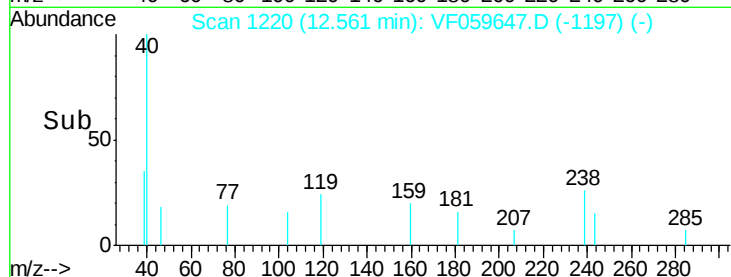
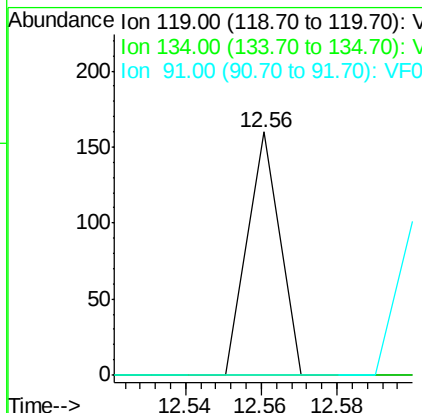
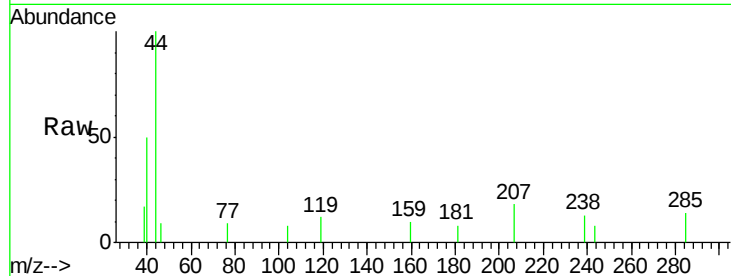
Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	119	Resp:	95
Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.4	37.0#
91	0.0	13.1	39.1#



#89

n-Butylbenzene

Concen: Below Cal

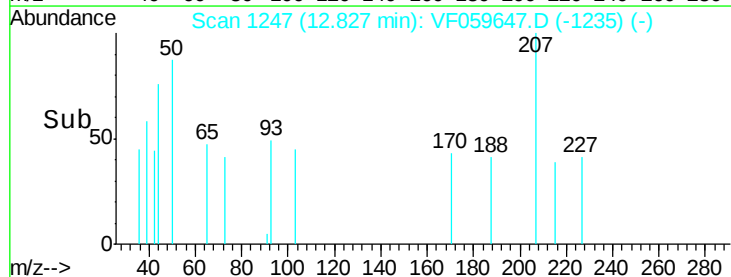
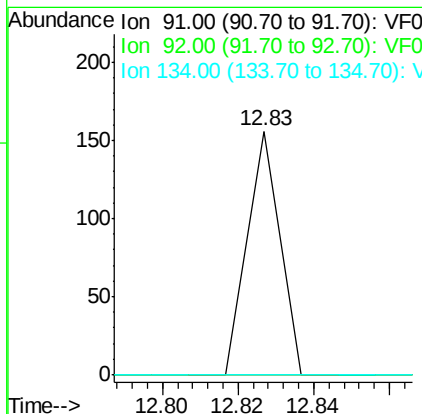
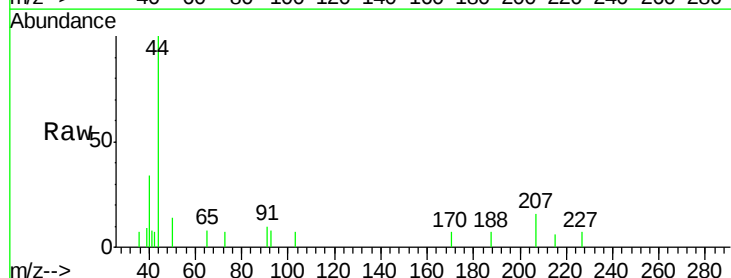
RT: 12.83 min Scan# 1247

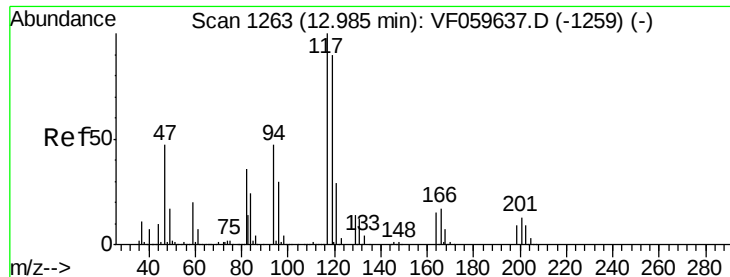
Delta R.T. -0.08 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Tgt Ion:	91	Resp:	92
Ion	Ratio	Lower	Upper
91	100		
92	0.0	29.1	87.3#
134	0.0	11.2	33.6#





#90

Hexachloroethane

Concen: 4.593 ug/l

RT: 13.05 min Scan# 1270

Delta R.T. 0.07 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

Instrument :

MSVOA_F

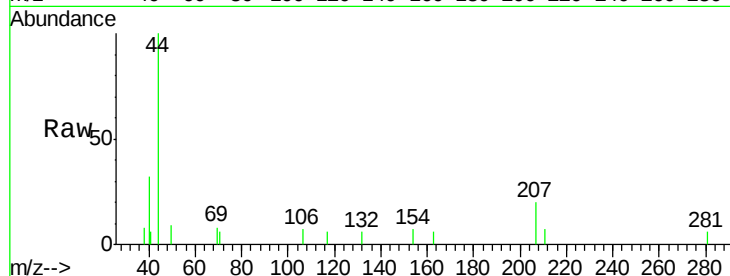
ClientSampled :

Tot Ion:117 Resp: 62

Ion Ratio Lower Upper

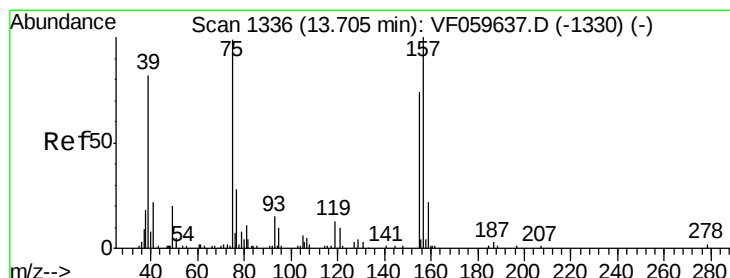
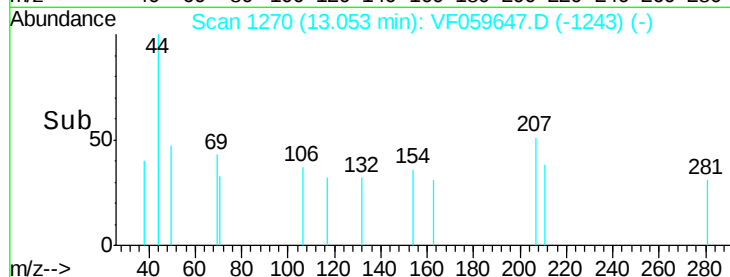
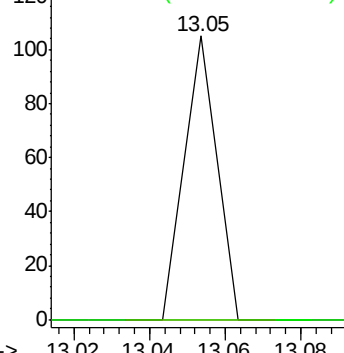
117 100

201 0.0 6.6 19.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 62.538 ug/l

RT: 13.66 min Scan# 1332

Delta R.T. -0.04 min

Lab File: VF059647.D

Acq: 24 Jul 2018 23:03

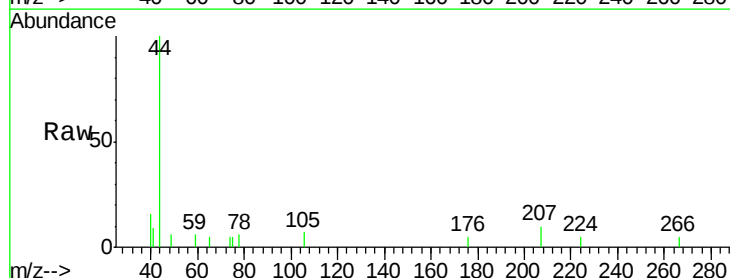
Tgt Ion: 75 Resp: 130

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.7#

157 0.0 50.6 151.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

