

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059445.D
 Acq On : 5 Jul 2018 20:22
 Operator : VA/AP
 Sample : J3855-01
 Misc : 6.42g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:06:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	3366	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	3157	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.88	117	2773	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.61	152	875	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	916	21.06	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	42.12%	
35) Dibromofluoromethane	4.26	113	651	28.22	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	56.44%	
50) Toluene-d8	7.67	98	2632	46.08	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	92.16%	
62) 4-Bromofluorobenzene	11.49	95	1008	31.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	62.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.02	50	166	8.035	ug/l #	41
4) Vinyl Chloride	1.15	62	99	4.868	ug/l #	42
5) Bromomethane	1.36	94	63	Below Cal	#	4
6) Chloroethane	1.33	64	75	7.322	ug/l #	45
7) Trichlorofluoromethane	1.61	101	70	1.741	ug/l #	16
8) Diethyl Ether	1.78	74	59	5.722	ug/l #	1
11) Tert butyl alcohol	2.62	59	121	41.794	ug/l #	66
13) Acrolein	2.07	56	129	80.323	ug/l #	10
14) Allyl chloride	2.13	41	88	2.362	ug/l #	56
15) Acrylonitrile	3.03	53	59	11.572	ug/l #	1
16) Acetone	2.31	43	74	Below Cal	#	65
18) Methyl Acetate	2.42	43	65	2.199	ug/l #	61
19) Methyl tert-butyl Ether	2.36	73	89	1.202	ug/l #	63
20) Methylene Chloride	2.26	84	148	Below Cal	#	58
21) trans-1,2-Dichloroethene	2.25	96	170	8.031	ug/l #	1
23) Vinyl Acetate	3.37	43	62	1.180	ug/l #	79
24) 1,1-Dichloroethane	2.86	63	75	1.466	ug/l #	90
25) 2-Butanone	4.48	43	199	12.517	ug/l #	59
26) 2,2-Dichloropropane	3.76	77	63	1.786	ug/l #	62
27) cis-1,2-Dichloroethene	3.50	96	61	1.898	ug/l	1
29) Tetrahydrofuran	4.19	42	96	8.609	ug/l #	36
31) Cyclohexane	3.90	56	66	1.970	ug/l #	13
36) 1,1-Dichloropropene	4.33	75	80	2.901	ug/l #	44
37) Ethyl Acetate	4.25	43	143	6.827	ug/l #	26
38) Carbon Tetrachloride	4.16	117	76	2.184	ug/l #	10
41) Methacrylonitrile	4.93	41	80	8.504	ug/l #	1
42) 1,2-Dichloroethane	5.21	62	67	1.875	ug/l	83
43) Isopropyl Acetate	7.04	43	67	2.917	ug/l #	52
44) Trichloroethene	5.53	130	66	3.146	ug/l	1
45) 1,2-Dichloropropane	6.46	63	147	8.414	ug/l #	43
46) Dibromomethane	6.13	93	70	4.616	ug/l #	4
48) Methyl methacrylate	6.86	41	66	4.287	ug/l #	11
49) 1,4-Dioxane	6.58	88	70	845.549	ug/l #	38
51) 4-Methyl-2-Pentanone	8.45	43	69	4.054	ug/l #	39

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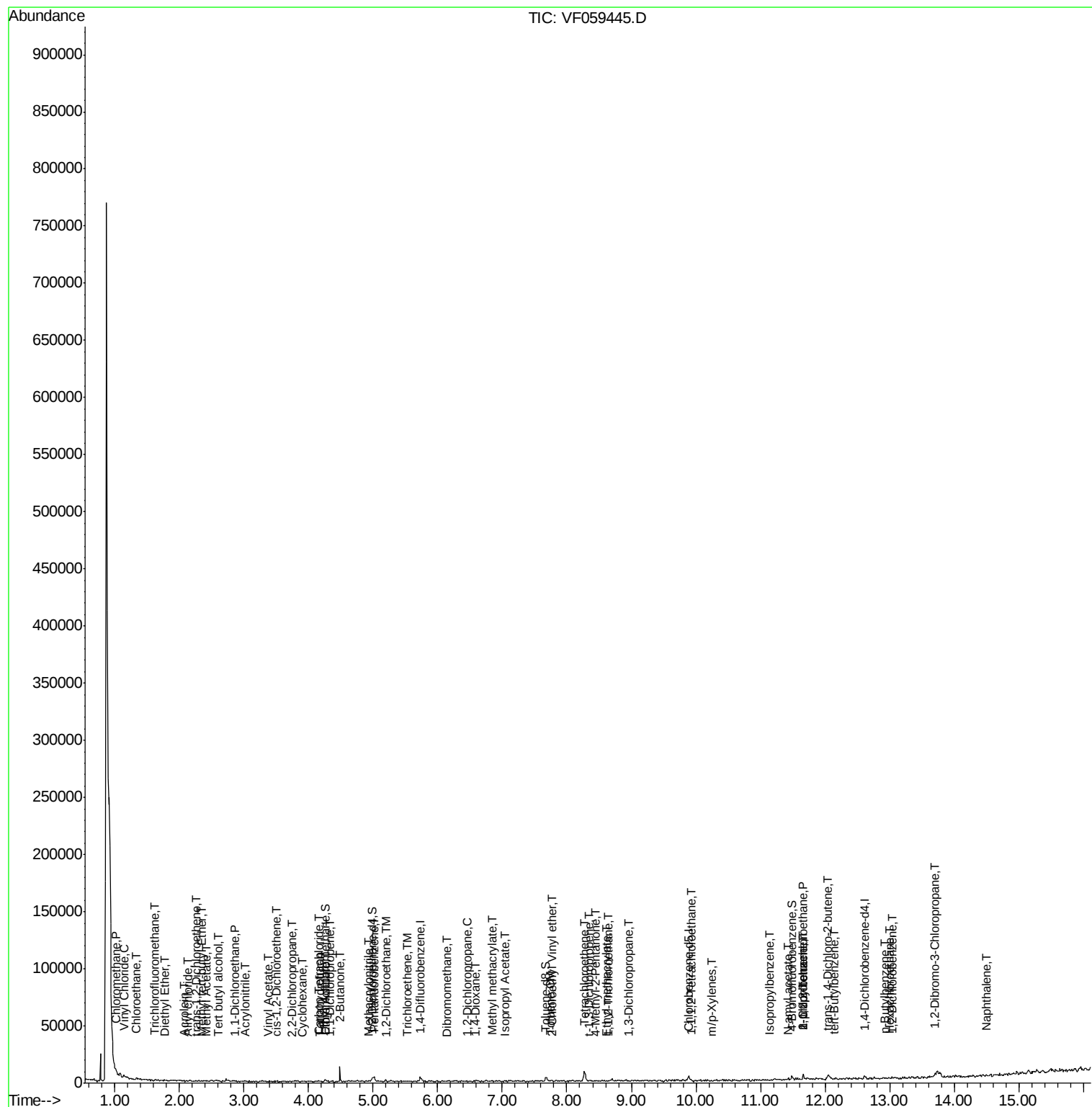
52) Toluene	7.74	92	104	2.273	ug/l #	1
53) t-1,3-Dichloropropene	8.35	75	69	2.062	ug/l #	43
55) 1,1,2-Trichloroethane	8.65	97	92	5.179	ug/l #	13
56) Ethyl methacrylate	8.61	69	76	3.453	ug/l #	18
57) 1,3-Dichloropropane	8.95	76	62	2.035	ug/l #	44
58) 2-Chloroethyl Vinyl ether	7.78	63	136	82.398	ug/l	100
59) 2-Hexanone	9.62	43	62	Below Cal	#	30
64) Tetrachloroethene	8.27	164	2548	141.673	ug/l #	78
66) 1,1,1,2-Tetrachloroethane	9.94	131	106	4.770	ug/l #	10
68) m/p-Xylenes	10.24	106	67	2.159	ug/l #	1
73) Isopropylbenzene	11.15	105	76	1.491	ug/l #	51
74) N-amyl acetate	11.41	43	93	5.027	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.67	83	61	4.738	ug/l #	24
78) n-propylbenzene	11.66	91	90	1.470	ug/l #	52
79) 2-Chlorotoluene	11.66	91	90	2.406	ug/l #	40
81) trans-1,4-Dichloro-2-buten	12.05	75	60	10.381	ug/l #	7
83) tert-Butylbenzene	12.14	119	211	4.725	ug/l #	31
89) n-Butylbenzene	12.92	91	66	1.309	ug/l #	29
90) Hexachloroethane	12.99	117	94	7.592	ug/l #	10
91) 1,2-Dichlorobenzene	13.05	146	81	3.155	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.70	75	67	23.477	ug/l #	1
95) Naphthalene	14.49	128	63	1.586	ug/l #	1

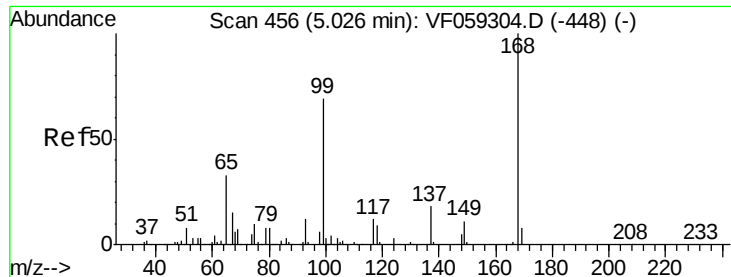
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

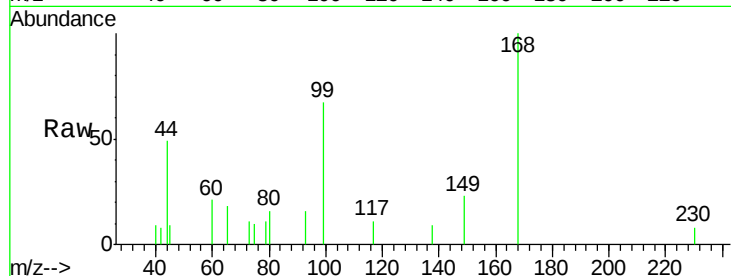
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 3366

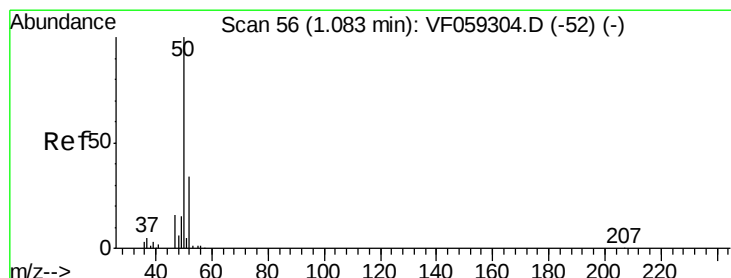
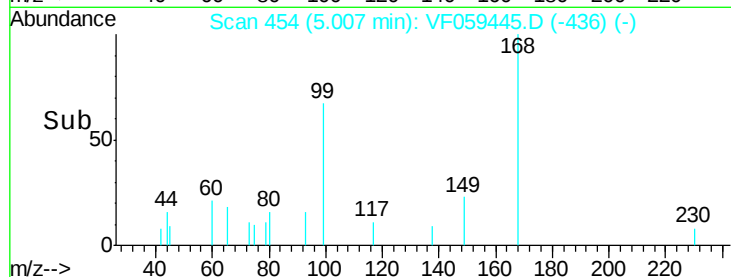
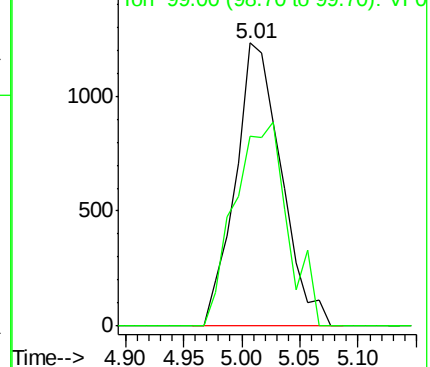
Ion Ratio Lower Upper

168 100

99 67.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 8.035 ug/l

RT: 1.02 min Scan# 50

Delta R.T. -0.06 min

Lab File: VF059445.D

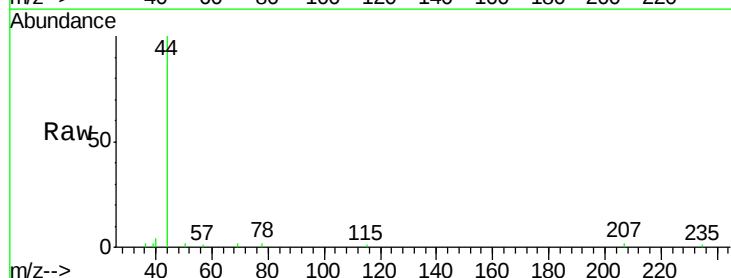
Acq: 5 Jul 2018 20:22

Tgt Ion: 50 Resp: 166

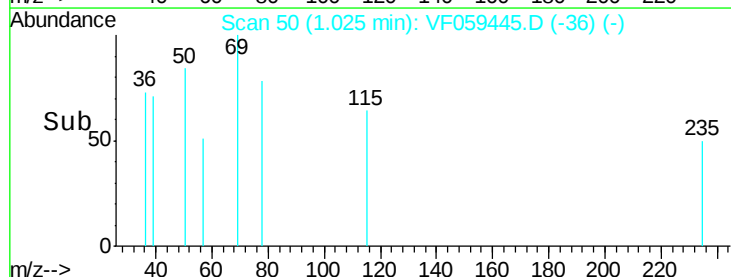
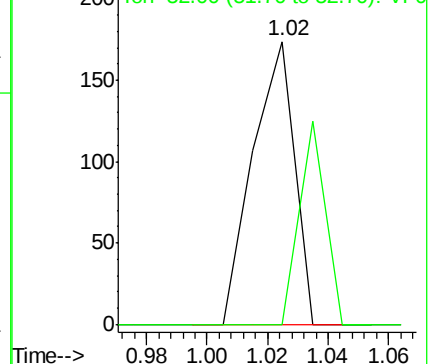
Ion Ratio Lower Upper

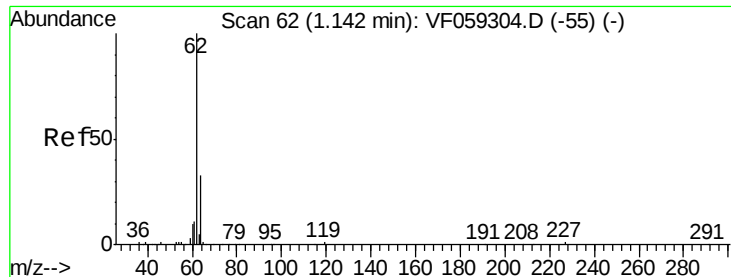
50 100

52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 4.868 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

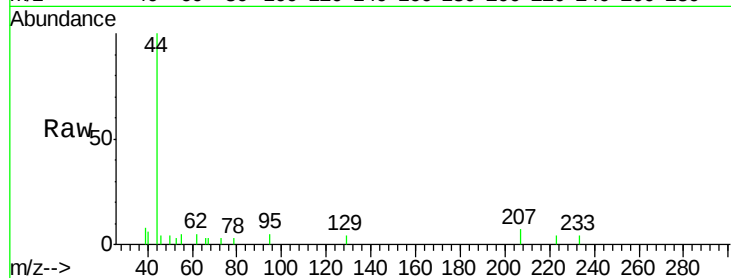
ClientSampleId :

Tot Ion: 62 Resp: 99

Ion Ratio Lower Upper

62 100

64 0.0 26.3 39.5#

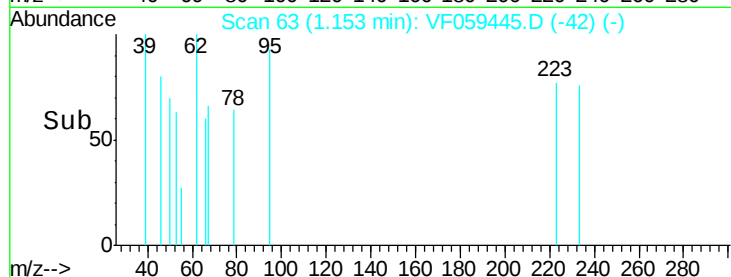


Abundance Ion 62.00 (61.70 to 62.70): VF0

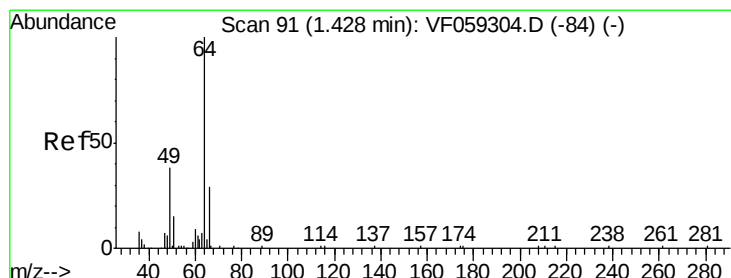
Ion 64.00 (63.70 to 64.70): VF0

1.15

1.12 1.14 1.16 1.18



Time-->



#6

Chloroethane

Concen: 7.322 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.10 min

Lab File: VF059445.D

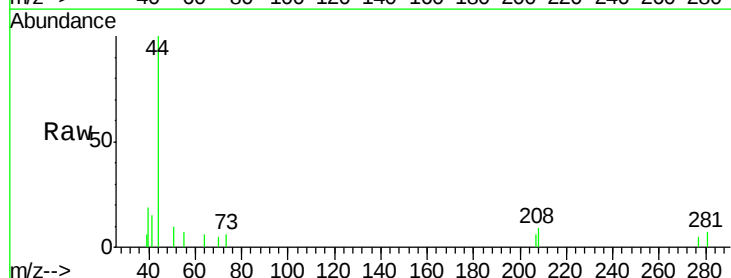
Acq: 5 Jul 2018 20:22

Tgt Ion: 64 Resp: 75

Ion Ratio Lower Upper

64 100

66 0.0 23.9 35.9#

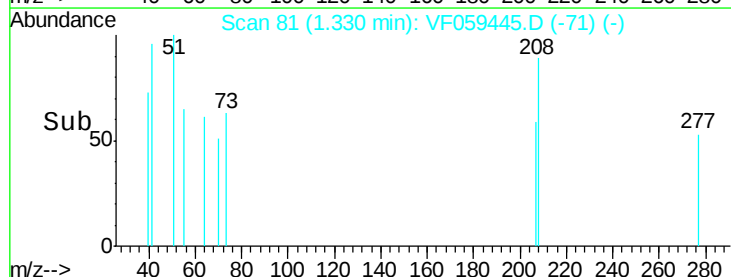


Abundance Ion 64.00 (63.70 to 64.70): VF0

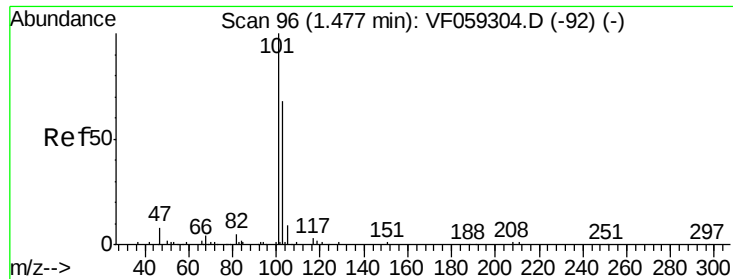
Ion 66.00 (65.70 to 66.70): VF0

1.33

1.30 1.32 1.34 1.36



Time-->



#7

Trichlorofluoromethane

Concen: 1.741 ug/l

RT: 1.61 min Scan# 109

Delta R.T. 0.13 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

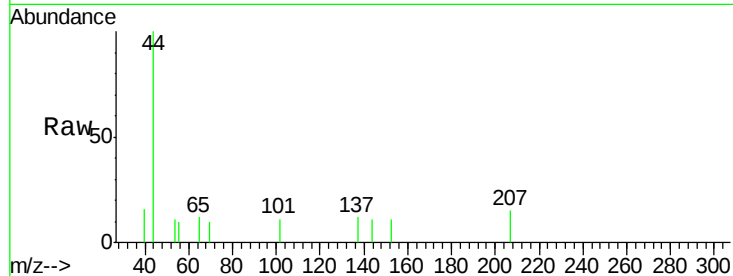
ClientSampleId :

Tot Ion:101 Resp: 70

Ion Ratio Lower Upper

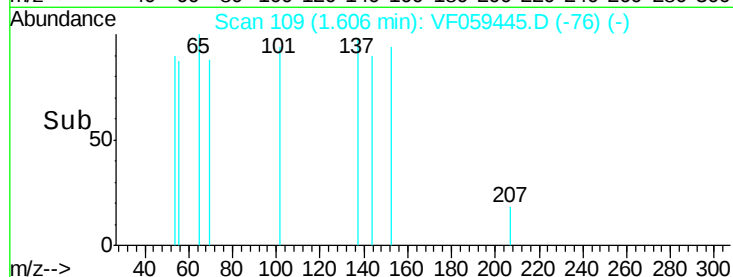
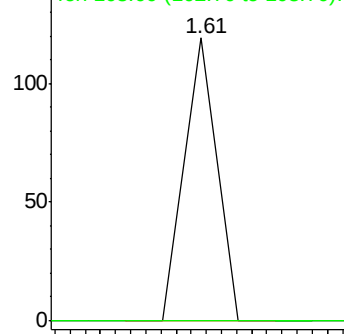
101 100

103 0.0 54.2 81.2#

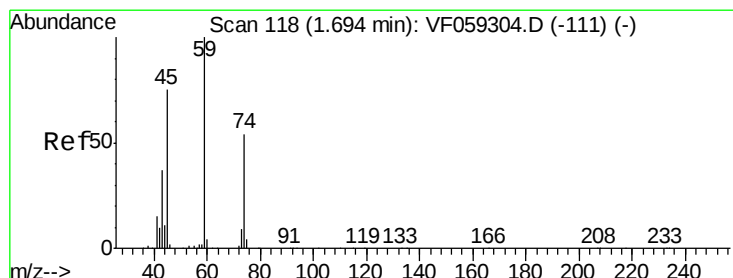


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#8

Diethyl Ether

Concen: 5.722 ug/l

RT: 1.78 min Scan# 127

Delta R.T. 0.09 min

Lab File: VF059445.D

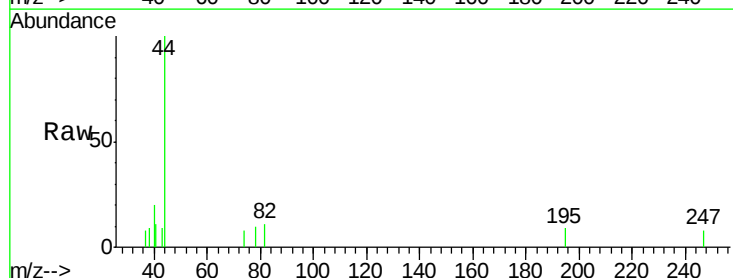
Acq: 5 Jul 2018 20:22

Tgt Ion: 74 Resp: 59

Ion Ratio Lower Upper

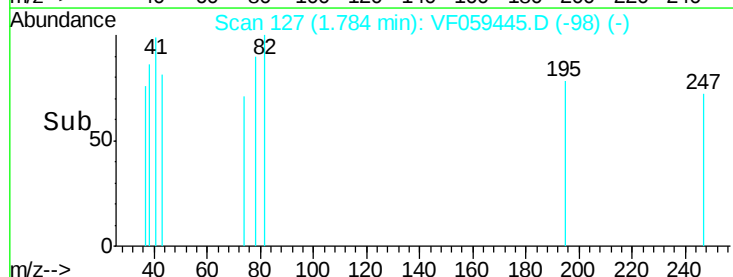
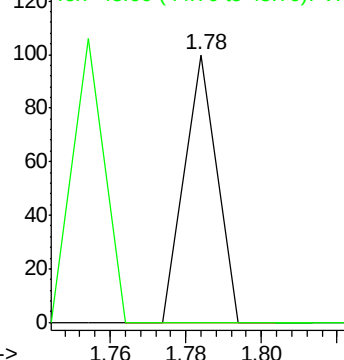
74 100

45 0.0 70.0 210.0#

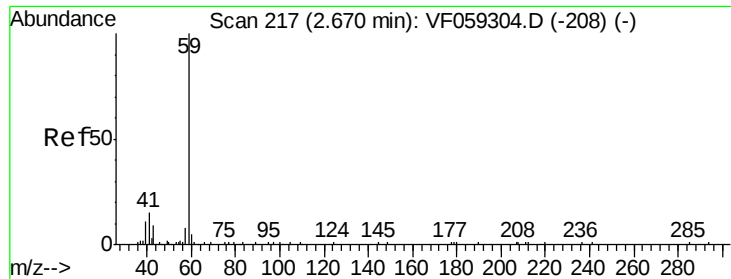


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->

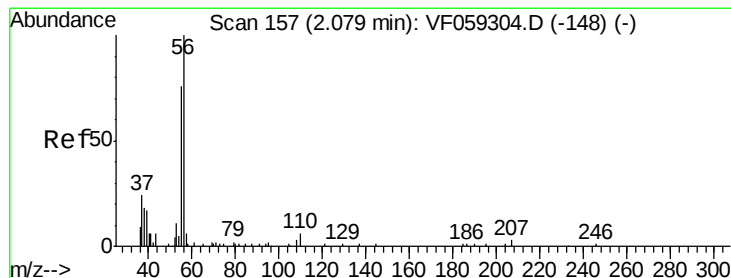
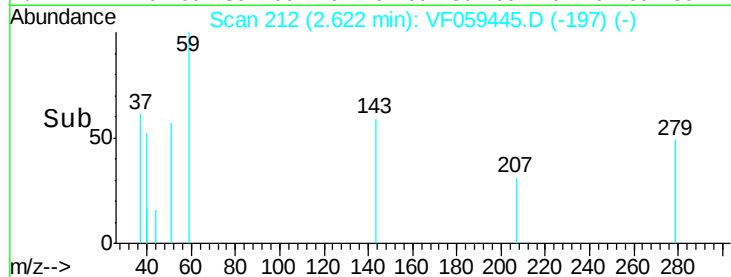
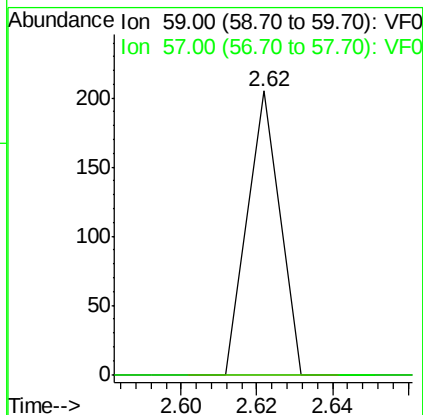
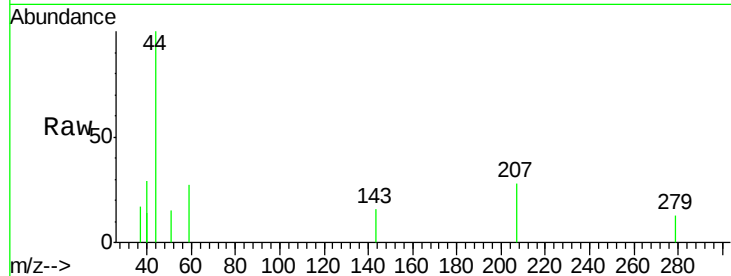


#11

Tert butyl alcohol
 Concen: 41.794 ug/l
 RT: 2.62 min Scan# 212
 Delta R.T. -0.05 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Instrument :
 MSVOA_F
 ClientSampled :

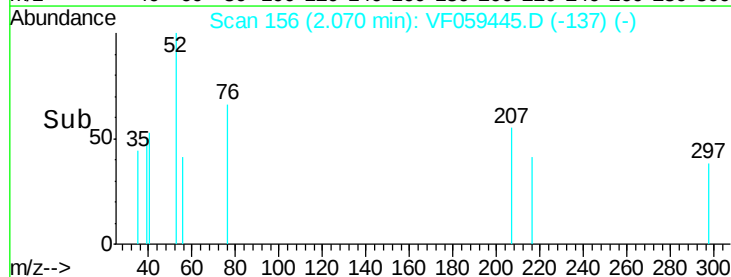
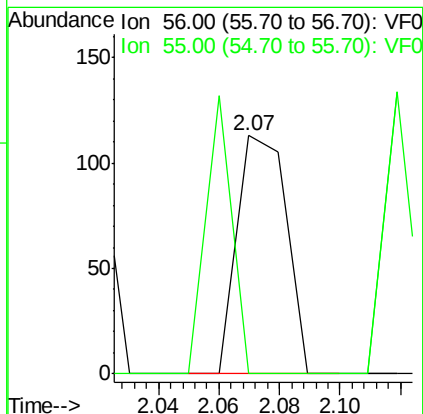
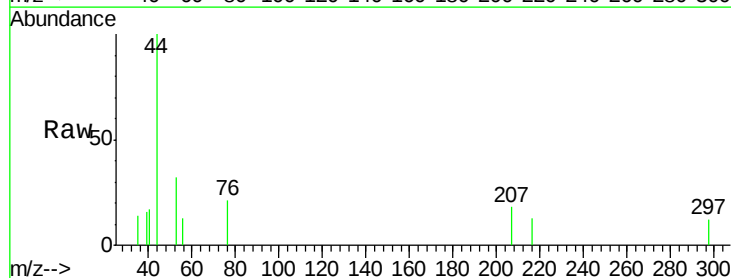
Tot Ion: 59 Resp: 121
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

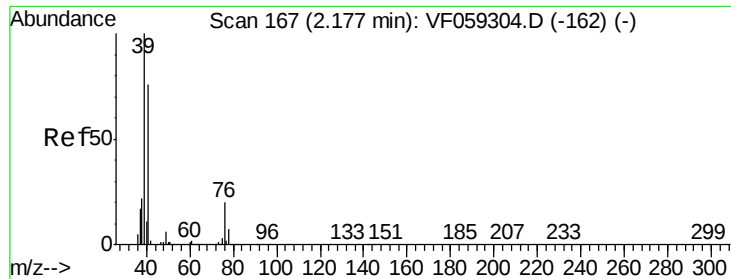


#13

Acrolein
 Concen: 80.323 ug/l
 RT: 2.07 min Scan# 156
 Delta R.T. -0.01 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Tgt Ion: 56 Resp: 129
 Ion Ratio Lower Upper
 56 100
 55 0.0 62.4 93.6#

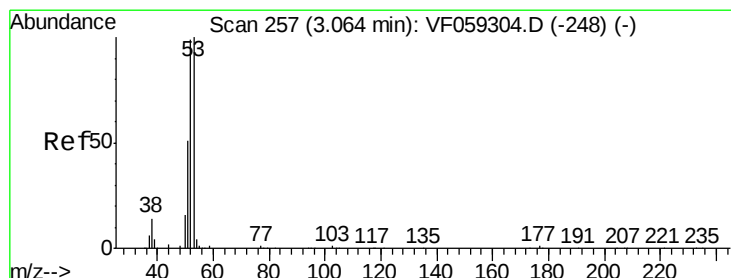
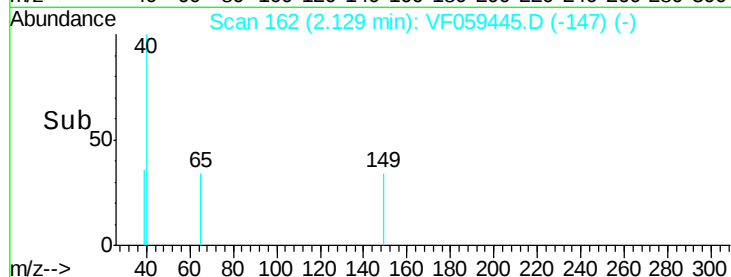
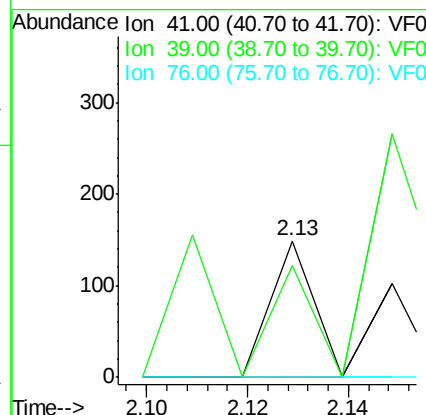
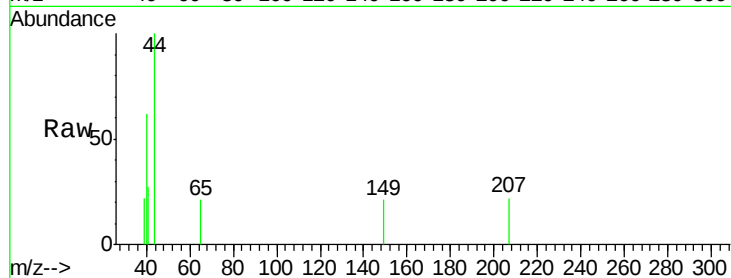




#14
Allvl chloride
Concen: 2.362 ug/l
RT: 2.13 min Scan# 162
Delta R.T. -0.05 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

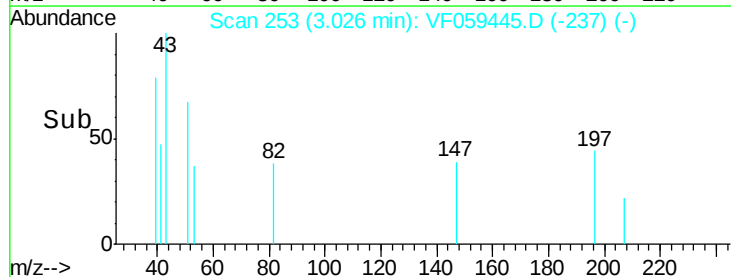
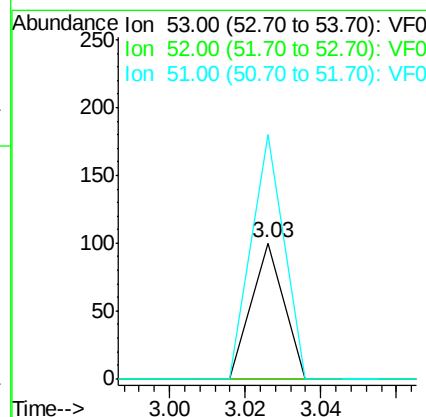
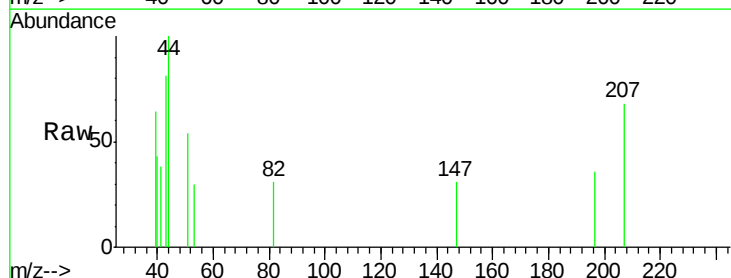
Instrument :
MSVOA_F
ClientSampled :

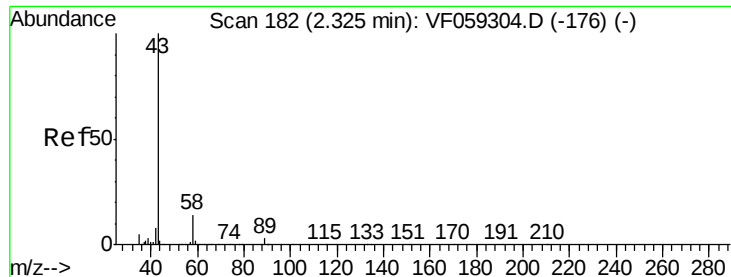
Tot Ion: 41 Resp: 88
Ion Ratio Lower Upper
41 100
39 81.9 105.6 158.4#
76 0.0 21.6 32.4#



#15
Acrylonitrile
Concen: 11.572 ug/l
RT: 3.03 min Scan# 253
Delta R.T. -0.04 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 53 Resp: 59
Ion Ratio Lower Upper
53 100
52 0.0 79.2 118.8#
51 180.0 40.9 61.3#

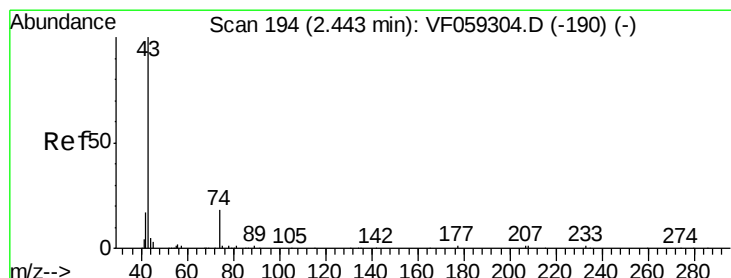
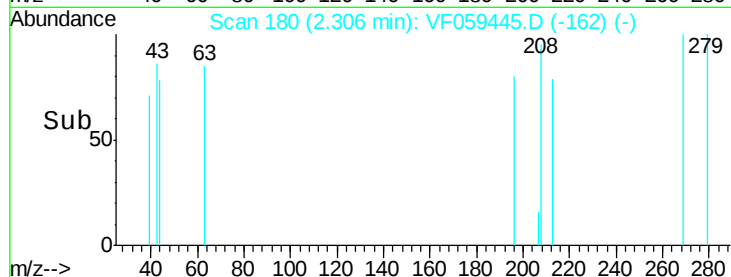
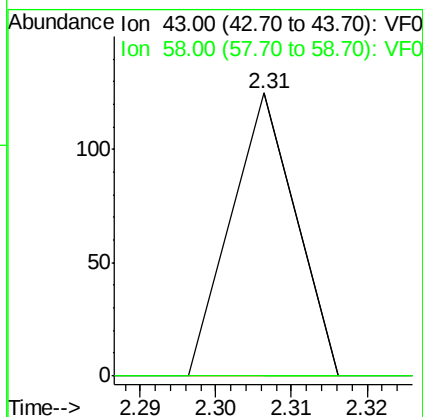
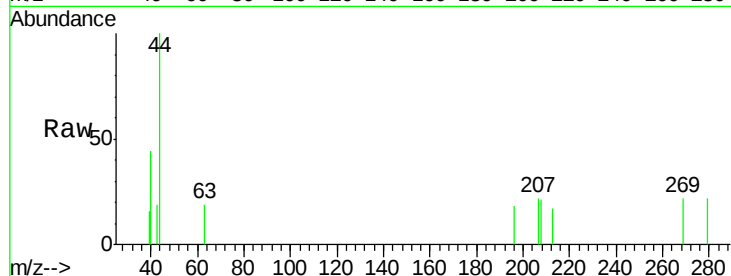




#16
Acetone
Concen: Below Cal
RT: 2.31 min Scan# 180
Delta R.T. -0.02 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

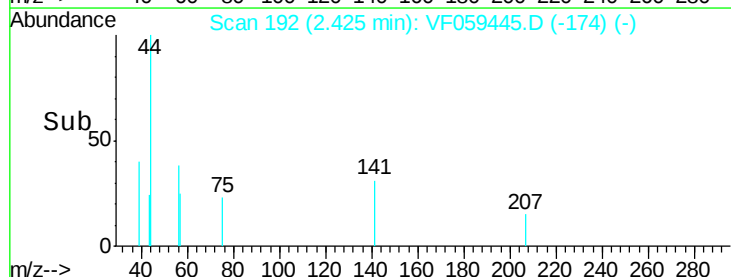
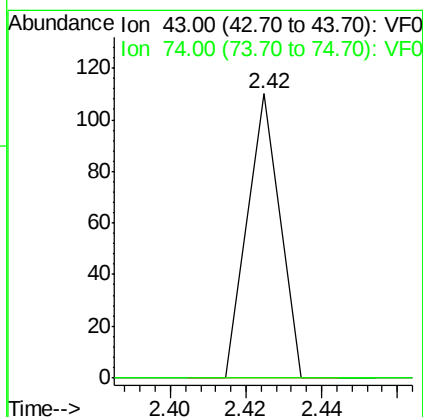
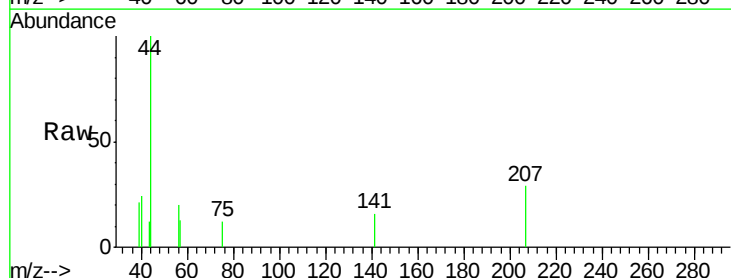
Instrument :
MSVOA_F
ClientSampleId :

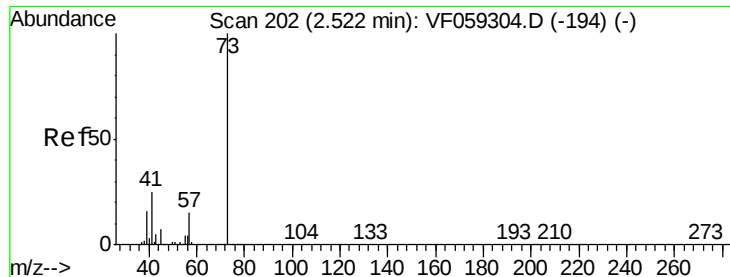
Tot Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
58 0.0 11.4 17.0#



#18
Methyl Acetate
Concen: 2.199 ug/l
RT: 2.42 min Scan# 192
Delta R.T. -0.02 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



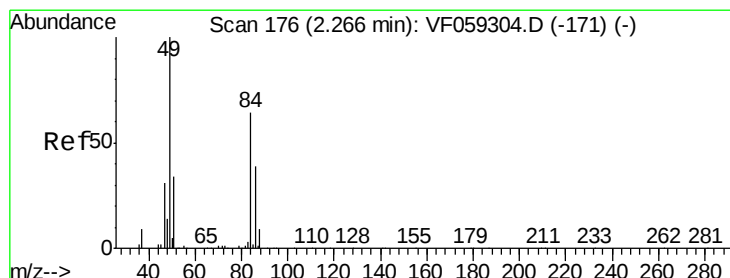
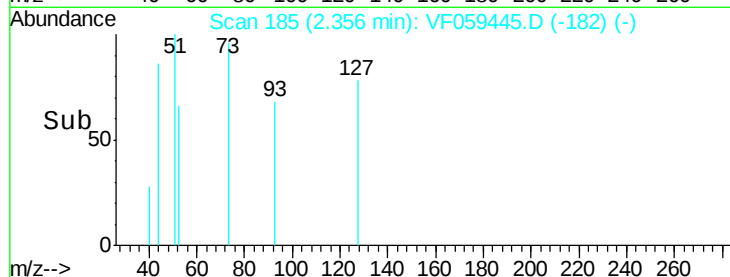
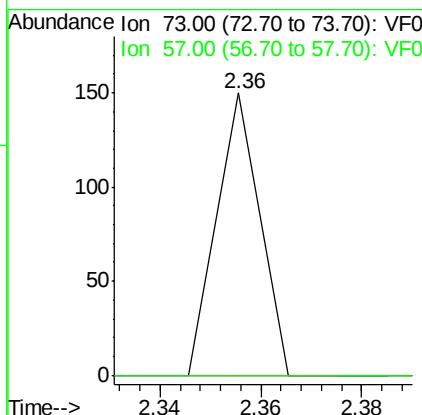
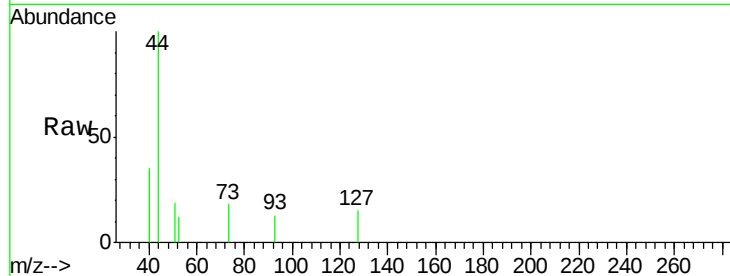


#19

Methyl tert-butyl Ether
 Concen: 1.202 ug/l
 RT: 2.36 min Scan# 185
 Delta R.T. -0.17 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Instrument :
 MSVOA_F
 ClientSampleId :

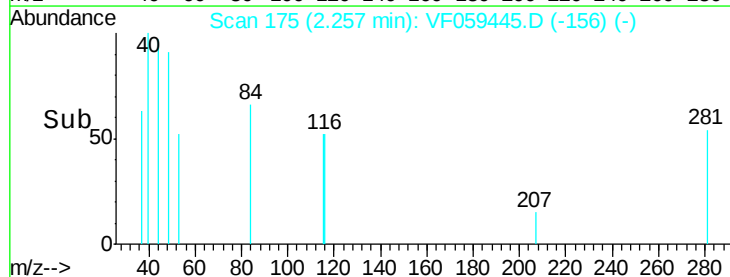
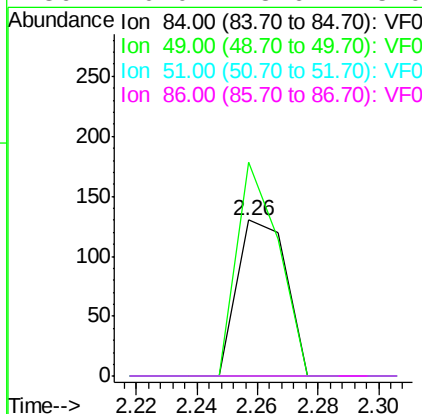
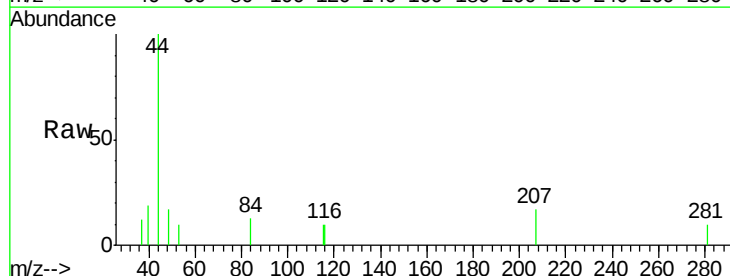
Tot Ion: 73 Resp: 89
 Ion Ratio Lower Upper
 73 100
 57 0.0 12.3 18.5#

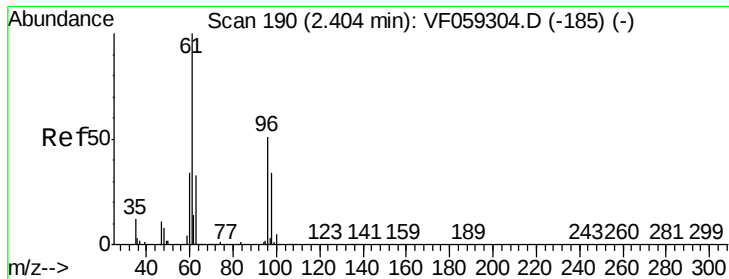


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.26 min Scan# 175
 Delta R.T. -0.01 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Tgt Ion: 84 Resp: 148
 Ion Ratio Lower Upper
 84 100
 49 136.9 126.5 189.7
 51 0.0 42.9 64.3#
 86 0.0 48.6 73.0#





#21

trans-1,2-Dichloroethene

Concen: 8.031 ug/l

RT: 2.25 min Scan# 174

Delta R.T. -0.16 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

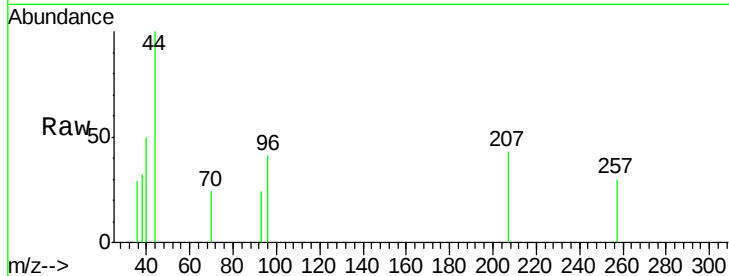
Tot Ion: 96 Resp: 170

Ion Ratio Lower Upper

96 100

61 0.0 157.4 236.2#

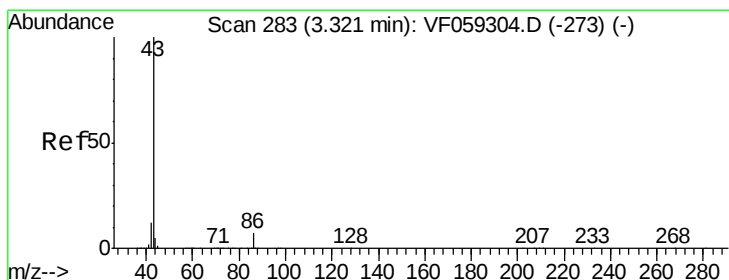
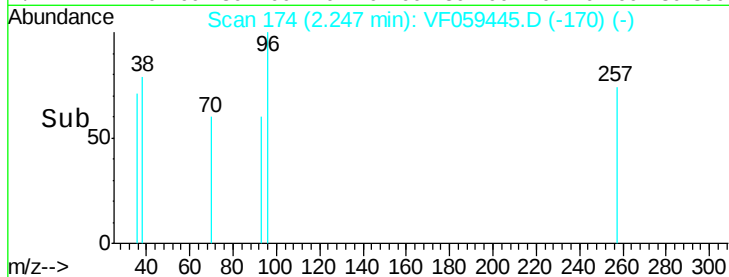
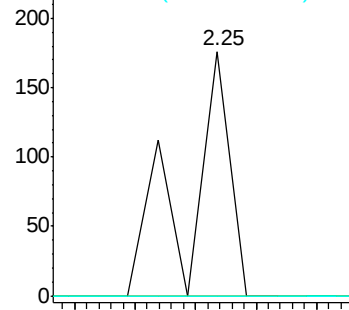
98 0.0 53.7 80.5#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#23

Vinyl Acetate

Concen: 1.180 ug/l

RT: 3.37 min Scan# 288

Delta R.T. 0.05 min

Lab File: VF059445.D

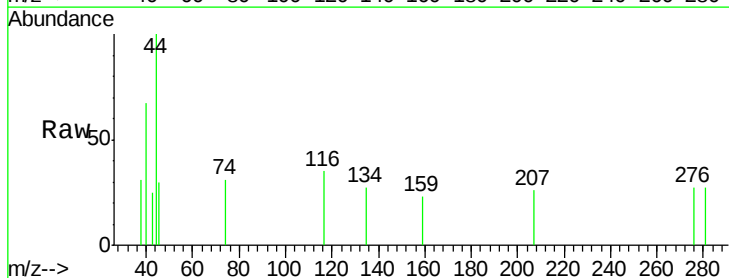
Acq: 5 Jul 2018 20:22

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

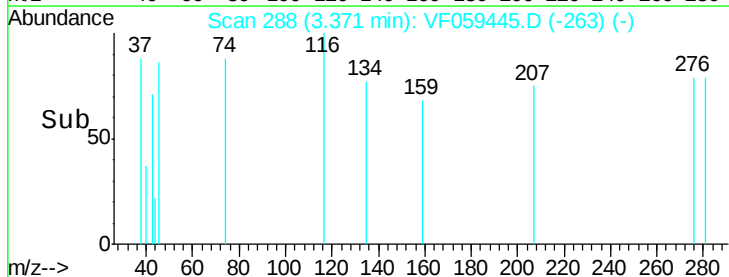
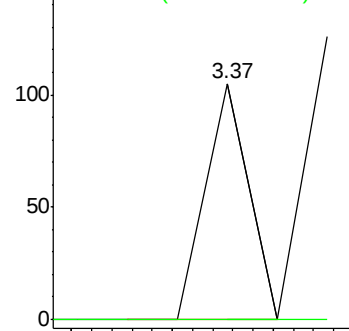
43 100

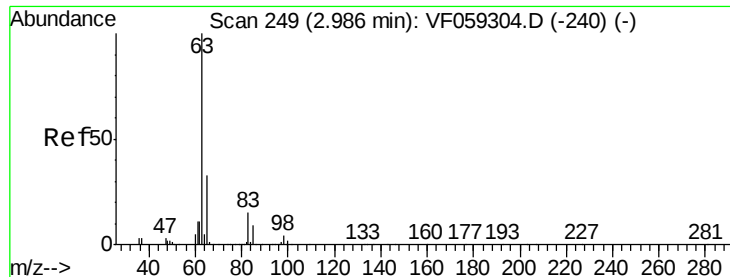
86 0.0 5.8 8.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 1.466 ug/l

RT: 2.86 min Scan# 236

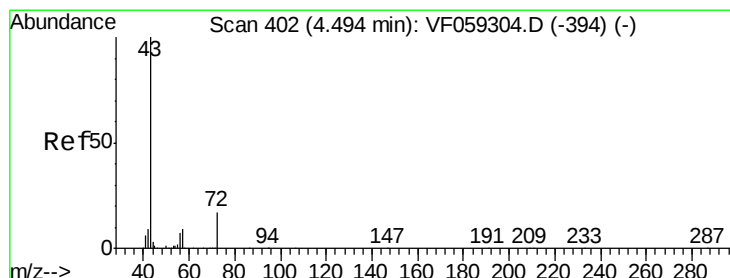
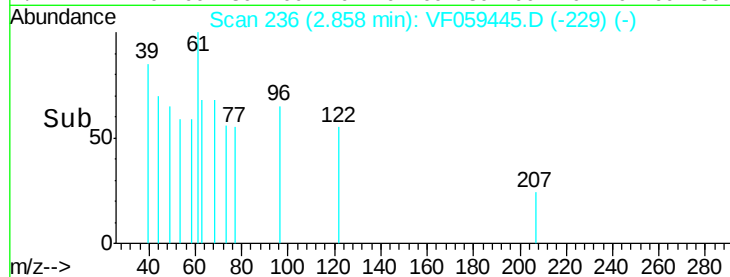
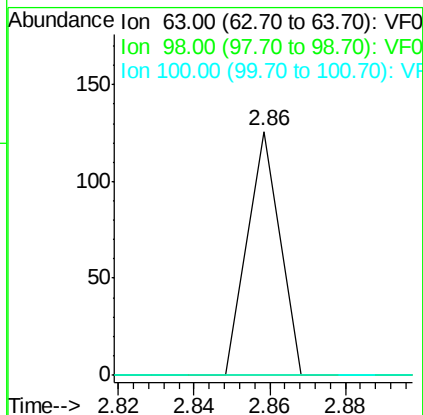
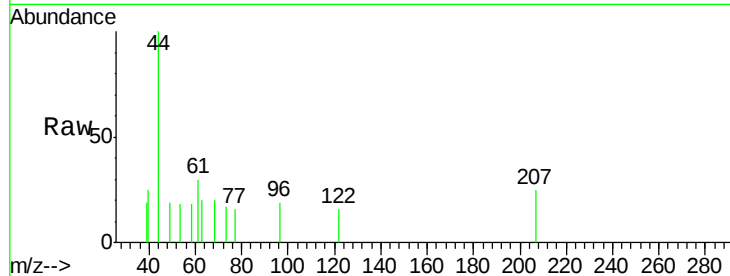
Delta R.T. -0.13 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	63	Resp:	75
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	0.0	1.3	3.9#



#25

2-Butanone

Concen: 12.517 ug/l

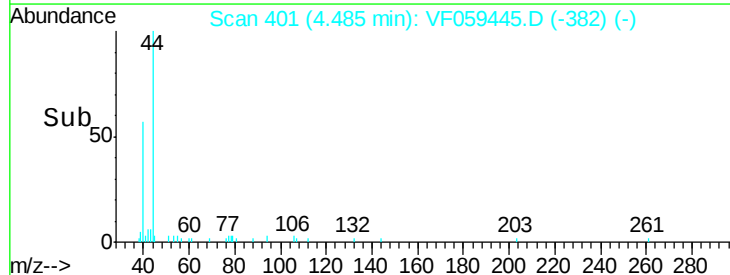
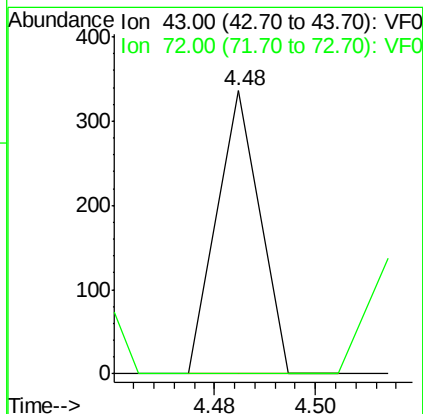
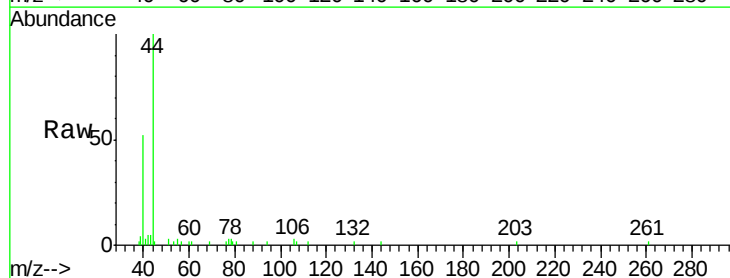
RT: 4.48 min Scan# 401

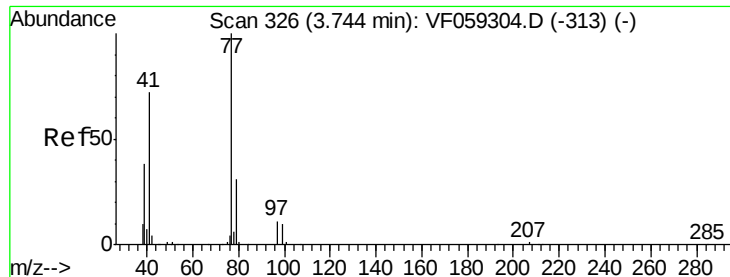
Delta R.T. -0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Tgt Ion:	43	Resp:	199
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#26

2,2-Dichloropropane

Concen: 1.786 ug/l

RT: 3.76 min Scan# 327

Delta R.T. 0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

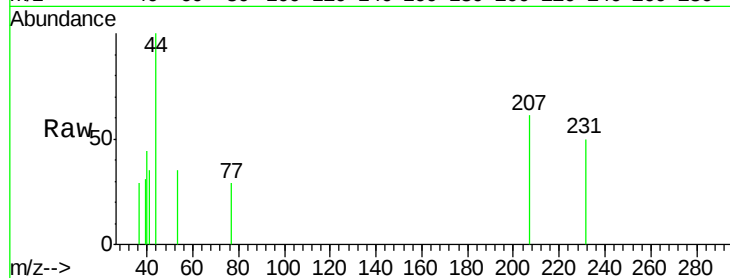
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 77 Resp: 63

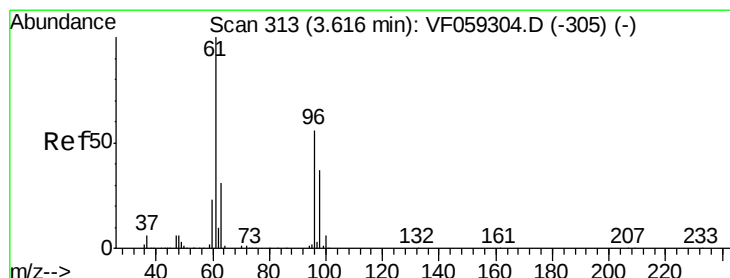
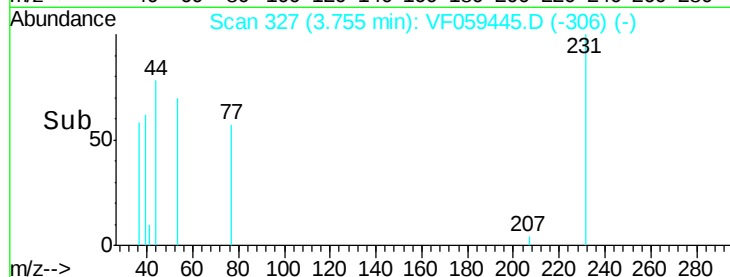
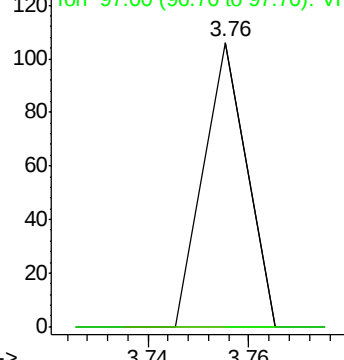
Ion Ratio Lower Upper

77 100

97 0.0 8.0 23.8#



Abundance Ion 77.00 (76.70 to 77.70): VF0
Ion 97.00 (96.70 to 97.70): VF0



#27

cis-1,2-Dichloroethene

Concen: 1.898 ug/l

RT: 3.50 min Scan# 301

Delta R.T. -0.12 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

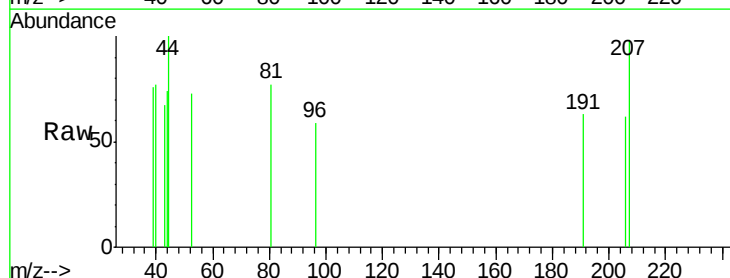
Tgt Ion: 96 Resp: 61

Ion Ratio Lower Upper

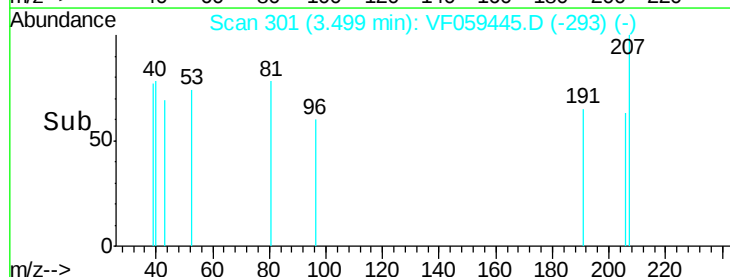
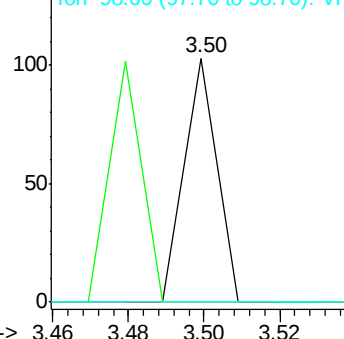
96 100

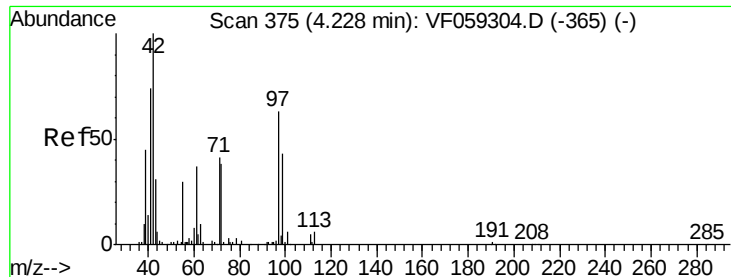
61 0.0 0.0 355.4

98 0.0 0.0 131.0



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

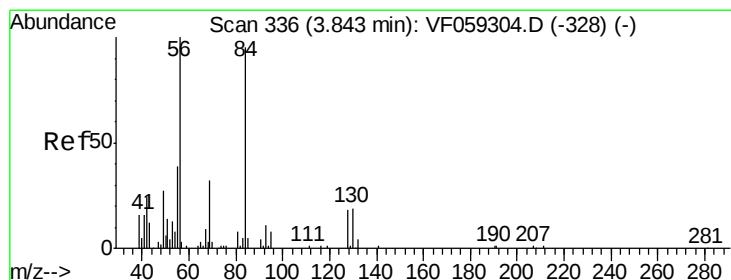
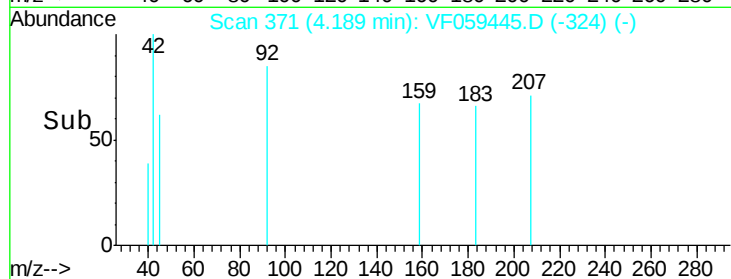
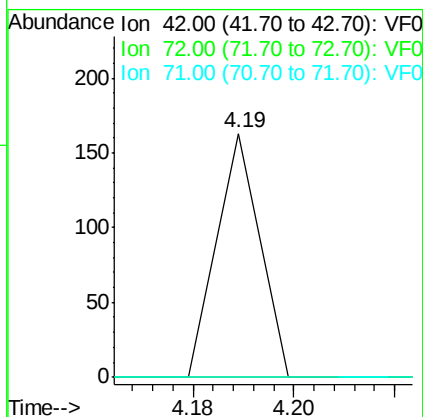
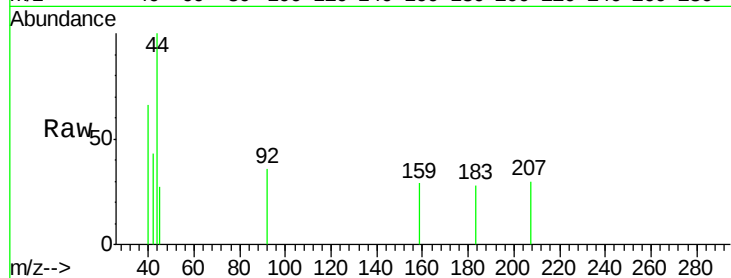




#29
Tetrahydrofuran
Concen: 8.609 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.04 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

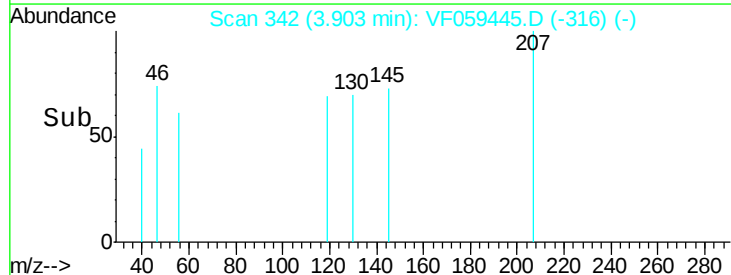
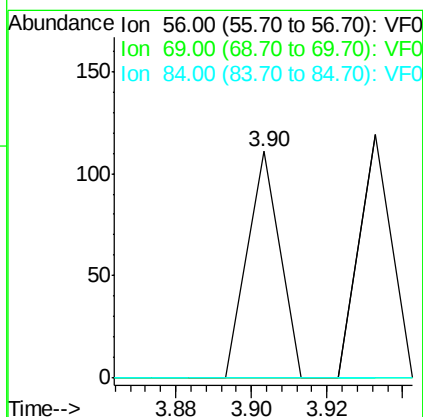
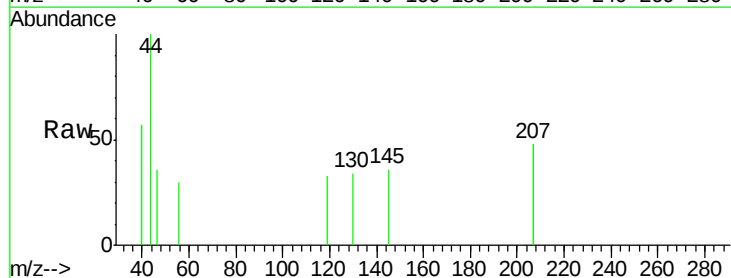
Instrument :
MSVOA_F
ClientSampleId :

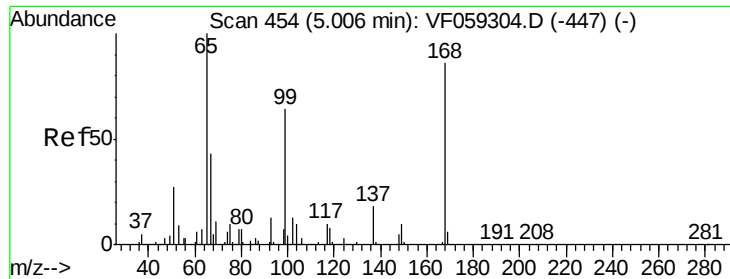
Tot Ion: 42 Resp: 96
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 0.0 32.5 48.7#



#31
Cyclohexane
Concen: 1.970 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.06 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
69 0.0 25.8 38.8#
84 0.0 75.6 113.4#





#33

1,2-Dichloroethane-d4

Concen: 21.063 ug/l

RT: 4.98 min Scan# 451

Delta R.T. -0.03 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

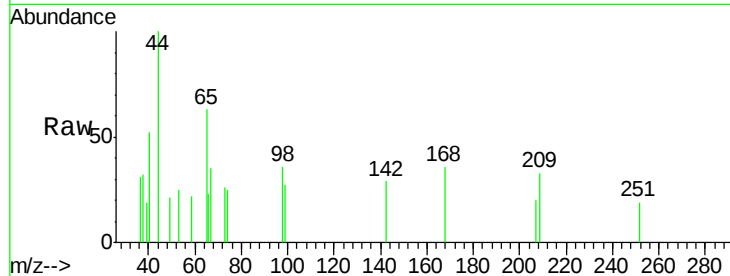
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 916

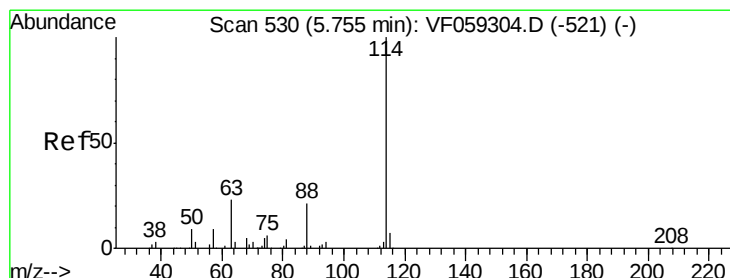
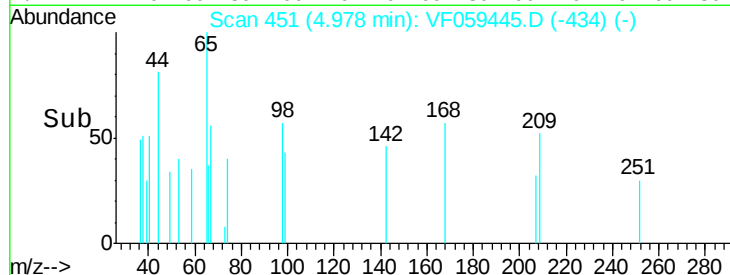
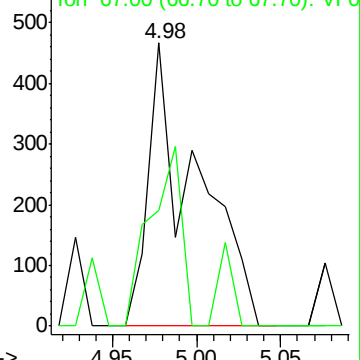
Ion Ratio Lower Upper

65 100

67 40.9 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

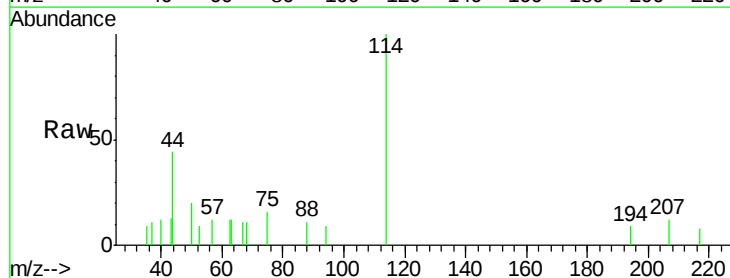
Tgt Ion: 114 Resp: 3157

Ion Ratio Lower Upper

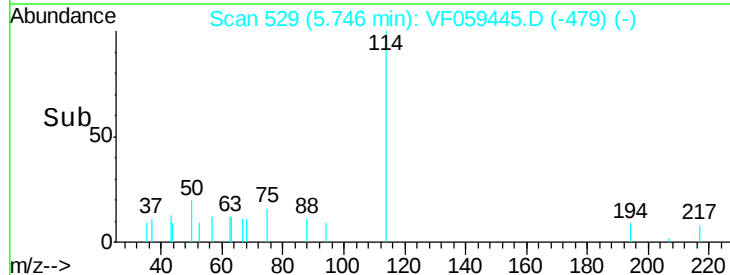
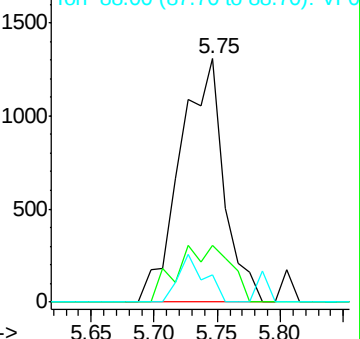
114 100

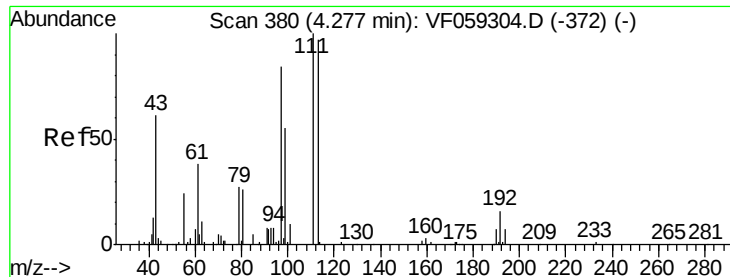
63 23.3 0.0 45.8

88 11.1 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

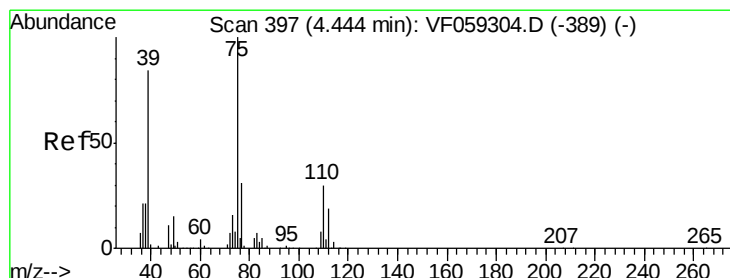
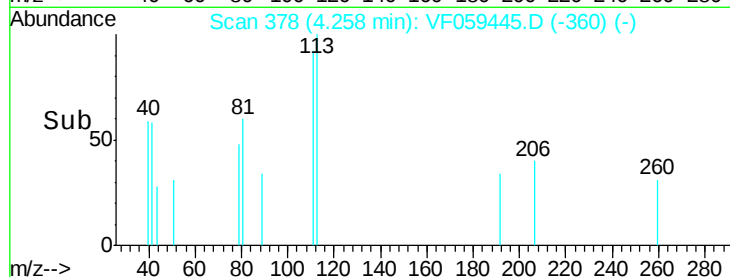
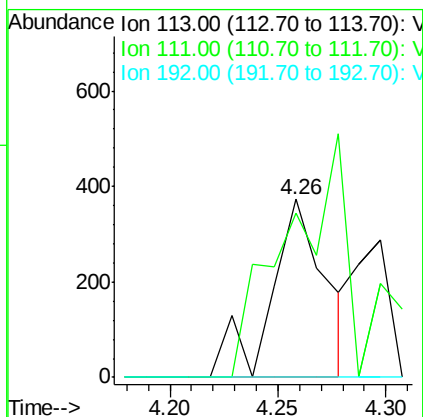
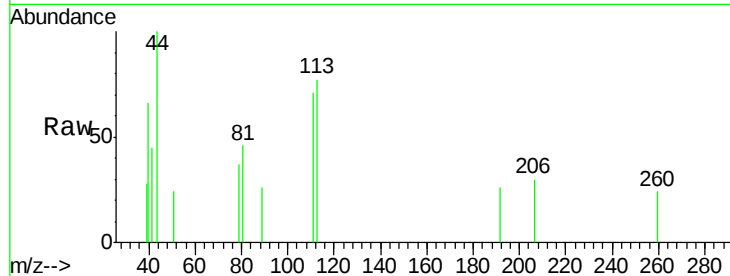




#35
 Dibromofluoromethane
 Concen: 28.222 ug/l
 RT: 4.26 min Scan# 378
 Delta R.T. -0.02 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

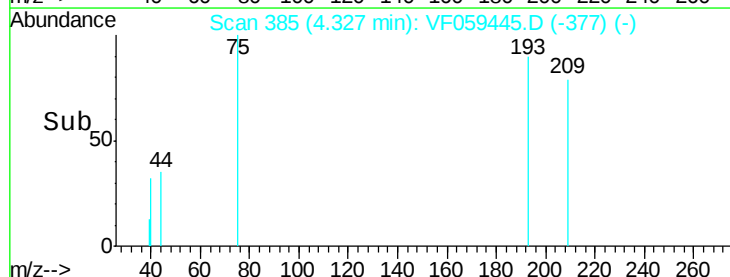
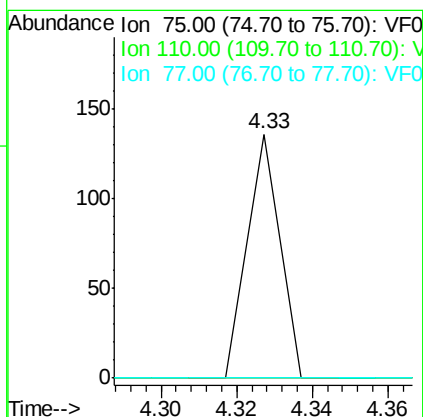
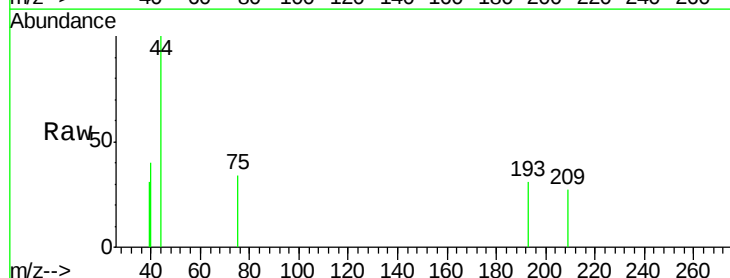
Instrument :
 MSVOA_F
 ClientSampleId :

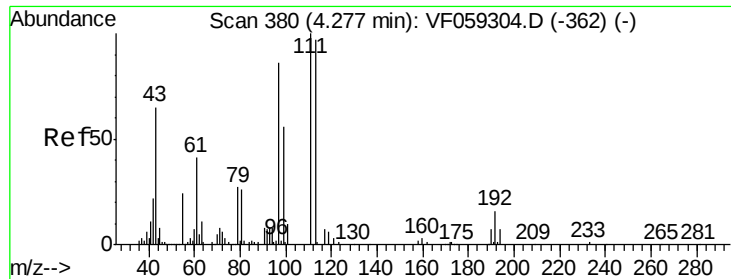
Tot Ion:113 Resp: 651
 Ion Ratio Lower Upper
 113 100
 111 92.2 82.1 123.1
 192 0.0 13.0 19.6#



#36
 1,1-Dichloropropene
 Concen: 2.901 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. -0.12 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Tgt Ion: 75 Resp: 80
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.8 44.4#
 77 0.0 25.2 37.8#

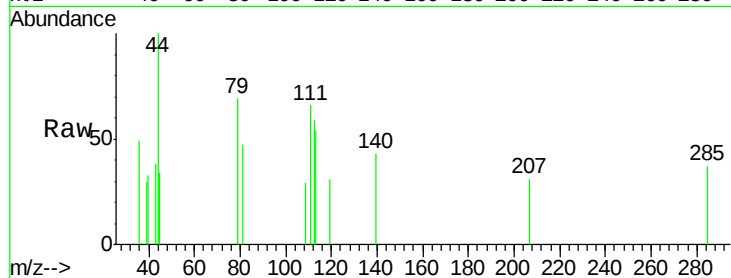




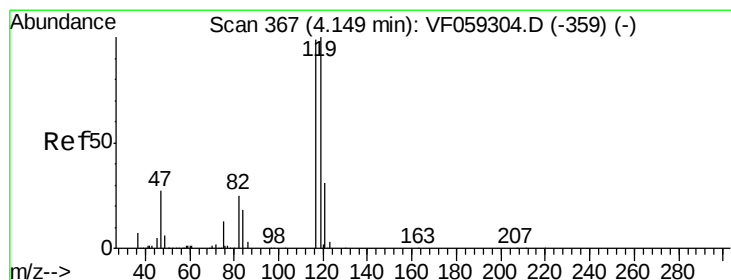
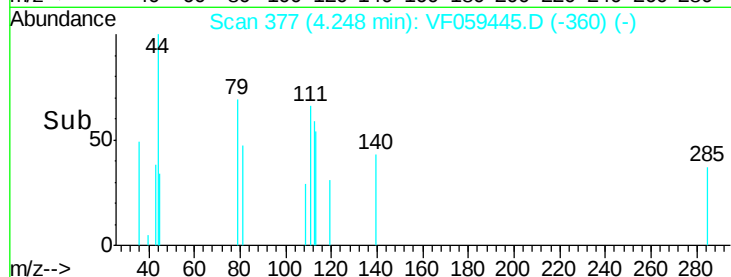
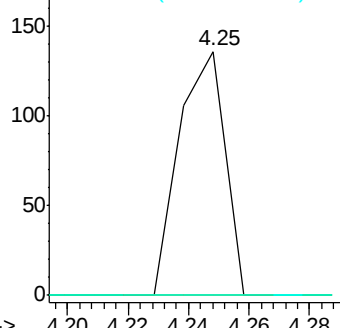
#37
Ethyl Acetate
Concen: 6.827 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.03 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 143
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#

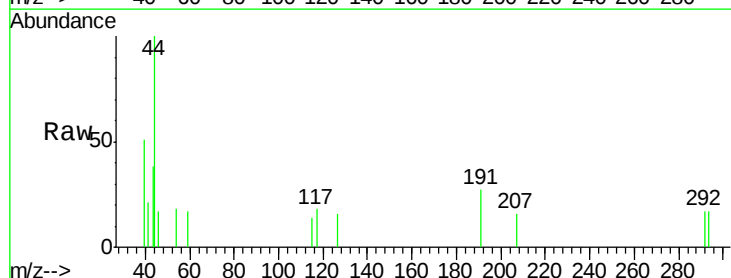


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

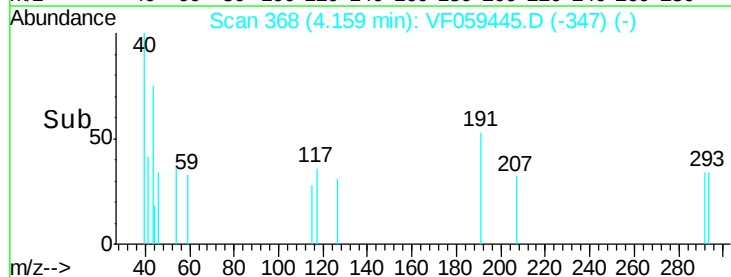
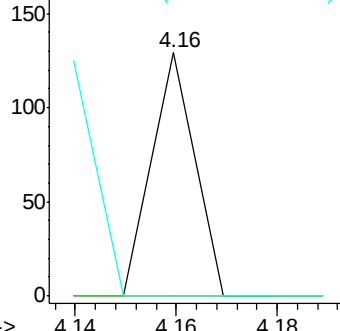


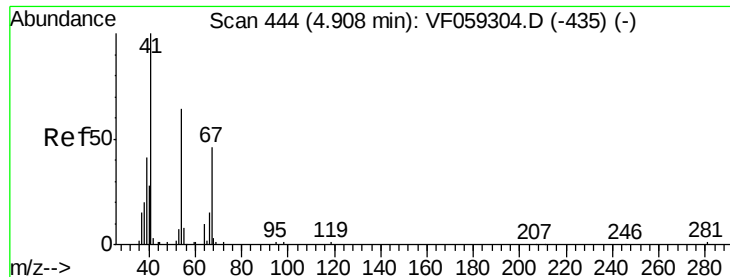
#38
Carbon Tetrachloride
Concen: 2.184 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.01 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 117 Resp: 76
Ion Ratio Lower Upper
117 100
119 0.0 81.0 121.4#
121 0.0 24.7 37.1#



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

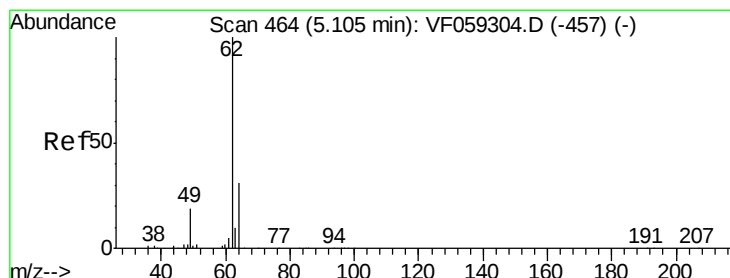
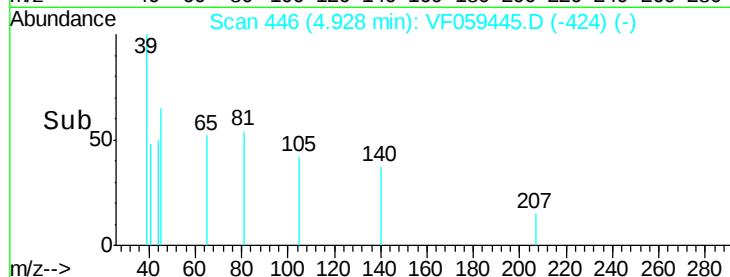
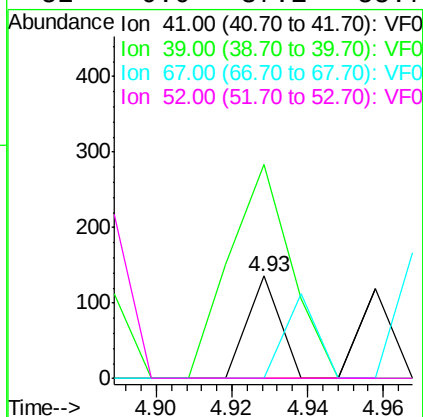
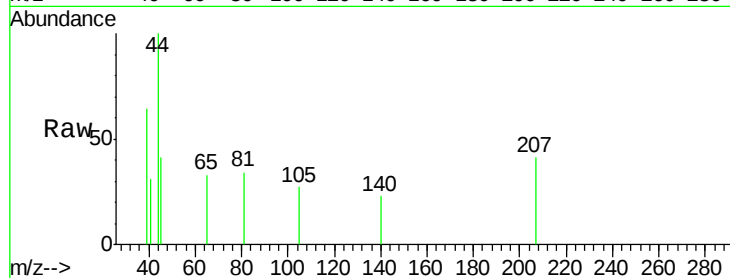




#41
Methacrylonitrile
Concen: 8.504 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.02 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

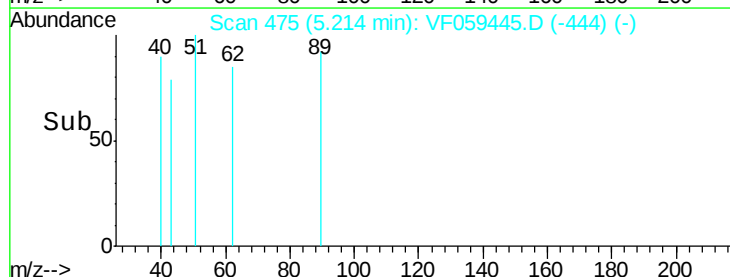
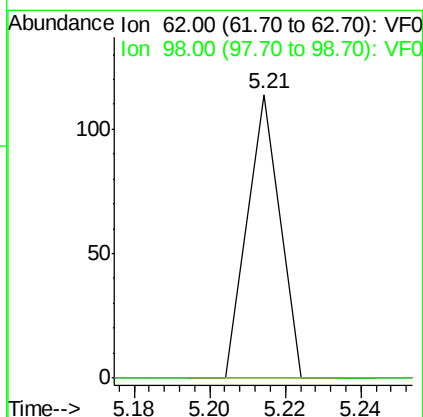
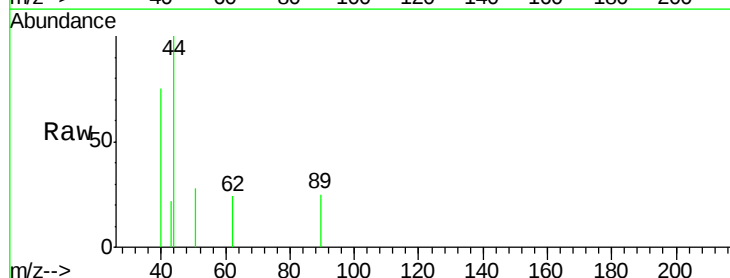
Instrument :
MSVOA_F
ClientSampled :

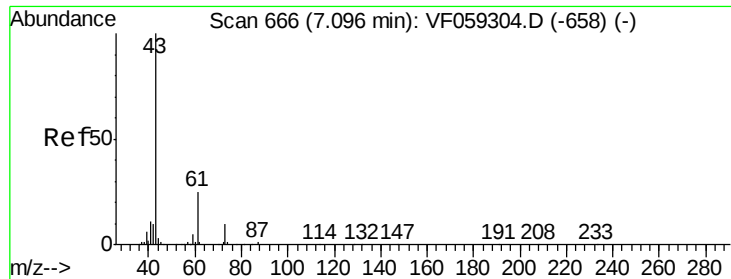
Tot Ion: 41 Resp: 80
Ion Ratio Lower Upper
41 100
39 208.1 50.0 75.0#
67 0.0 37.0 55.6#
52 0.0 37.1 55.7#



#42
1,2-Dichloroethane
Concen: 1.875 ug/l
RT: 5.21 min Scan# 475
Delta R.T. 0.11 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 62 Resp: 67
Ion Ratio Lower Upper
62 100
98 0.0 0.0 11.4



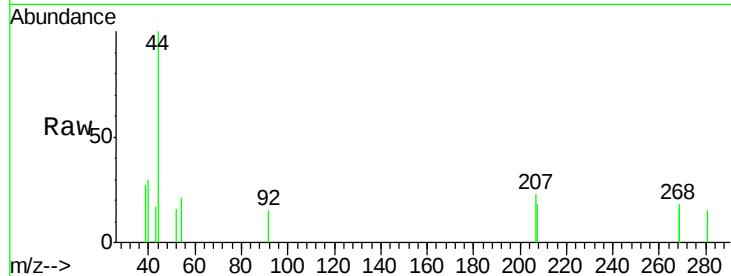


#43

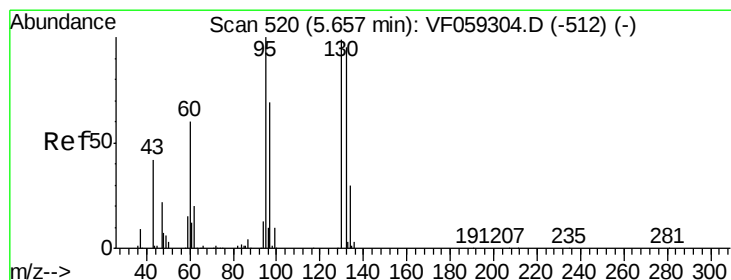
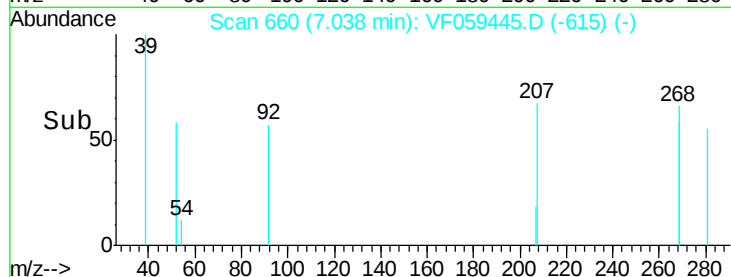
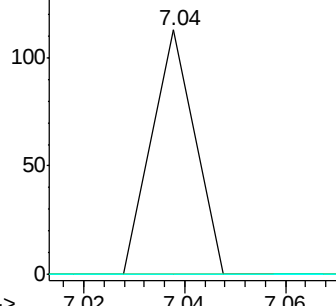
Isopropyl Acetate
 Concen: 2.917 ug/l
 RT: 7.04 min Scan# 660
 Delta R.T. -0.06 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion	43	Resp	67
Ion Ratio	100		
Lower	19.7		
Upper	29.5		
61	0.0		
87	0.0		
	0.5		
	0.7		



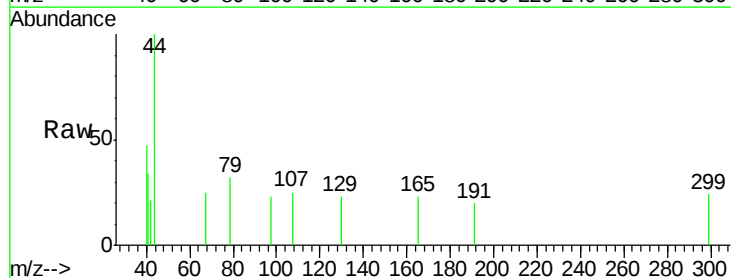
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



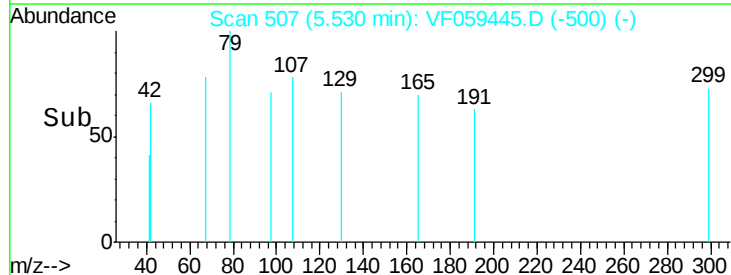
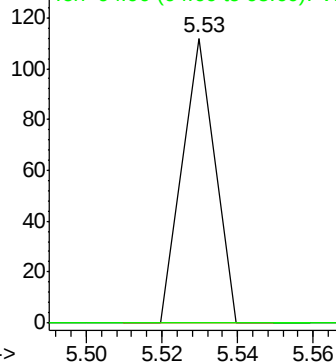
#44

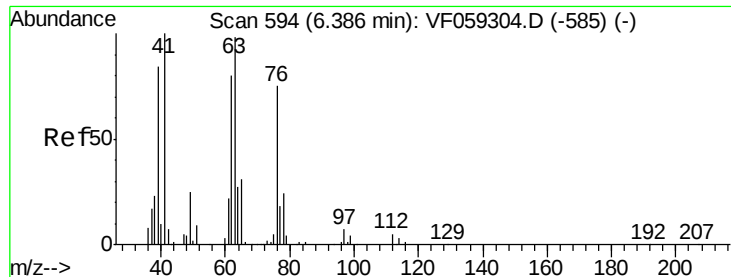
Trichloroethene
 Concen: 3.146 ug/l
 RT: 5.53 min Scan# 507
 Delta R.T. -0.13 min
 Lab File: VF059445.D
 Acq: 5 Jul 2018 20:22

Tgt Ion	130	Resp	66
Ion Ratio	100		
Lower	0.0		
Upper	202.4		
95	0.0		



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 8.414 ug/l

RT: 6.46 min Scan# 601

Delta R.T. 0.07 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

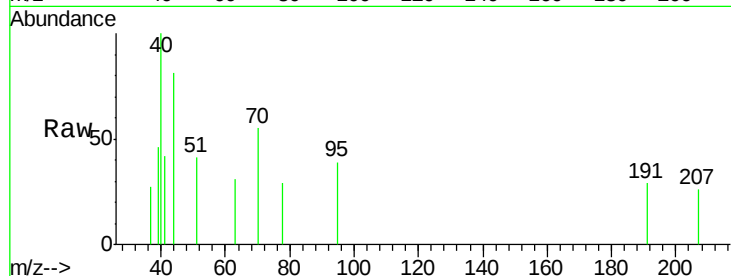
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 147

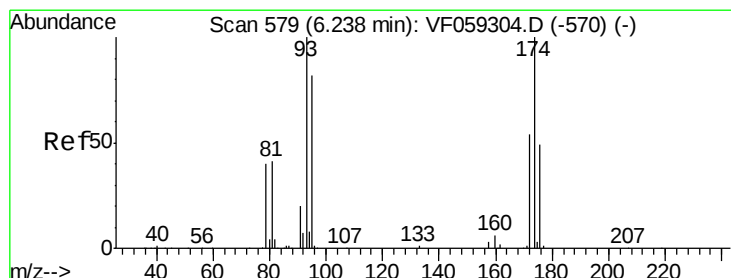
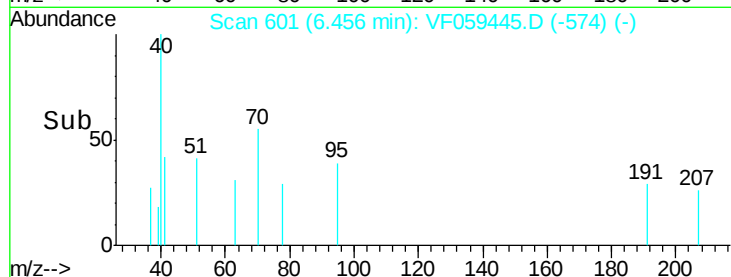
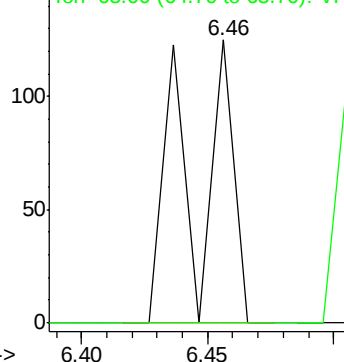
Ion Ratio Lower Upper

63 100

65 0.0 25.3 37.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 4.616 ug/l

RT: 6.13 min Scan# 568

Delta R.T. -0.11 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

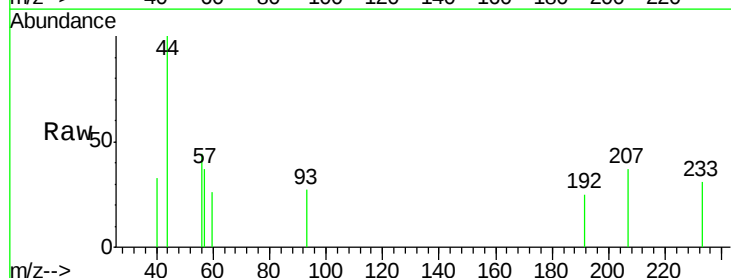
Tgt Ion: 93 Resp: 70

Ion Ratio Lower Upper

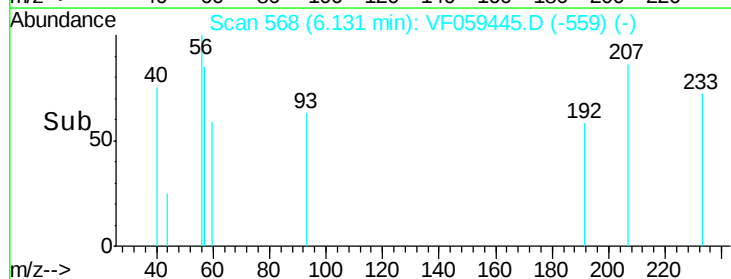
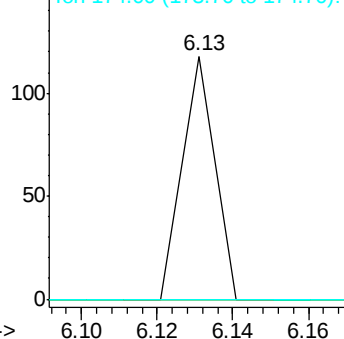
93 100

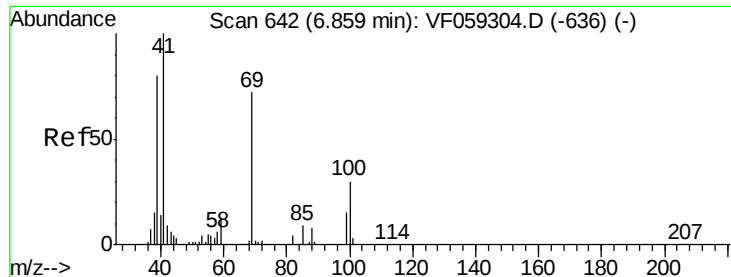
95 0.0 65.6 98.4#

174 0.0 80.0 120.0#



Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V

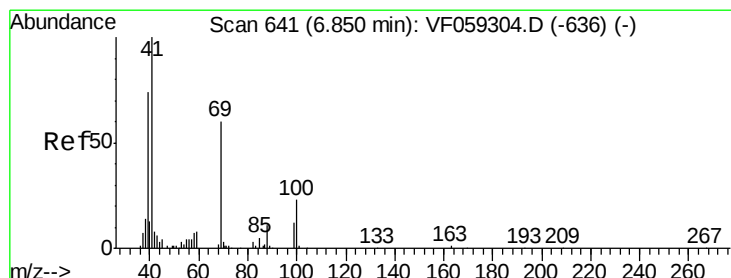
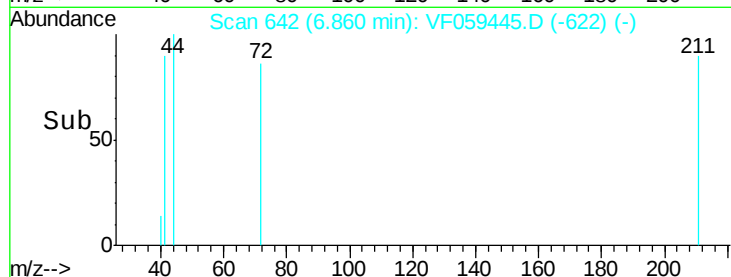
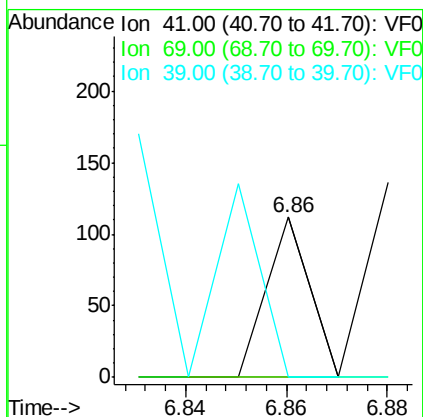
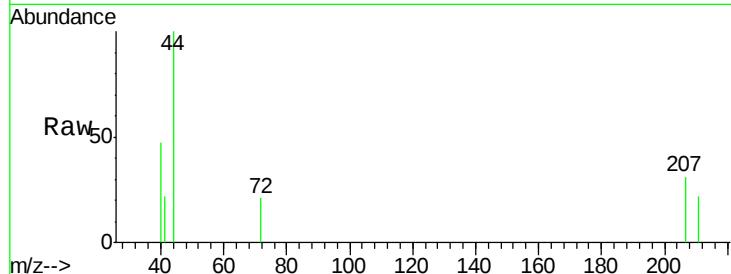




#48
Methvl methacrylate
Concen: 4.287 ug/l
RT: 6.86 min Scan# 642
Delta R.T. 0.00 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

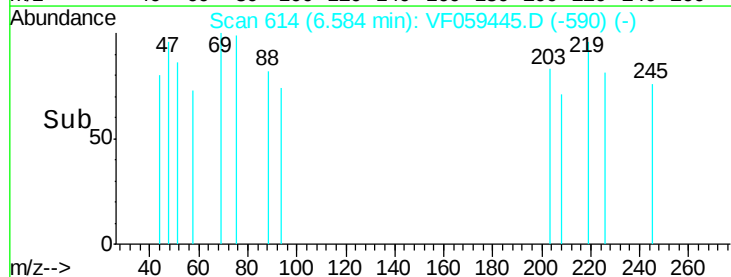
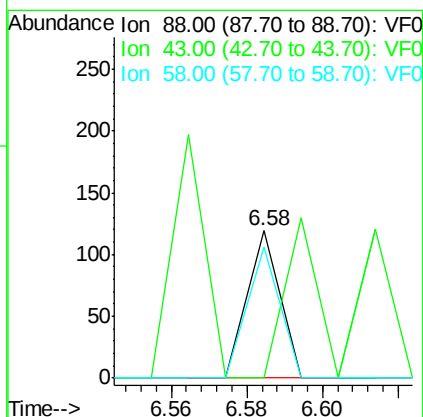
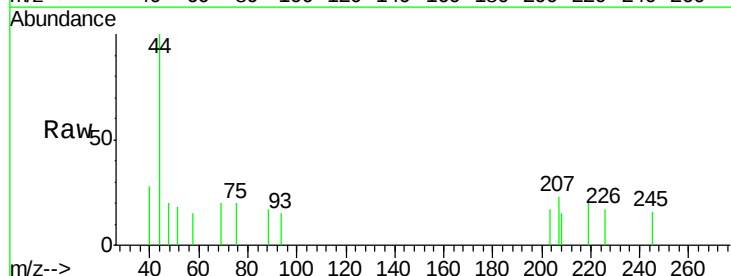
Instrument :
MSVOA_F
ClientSampleId :

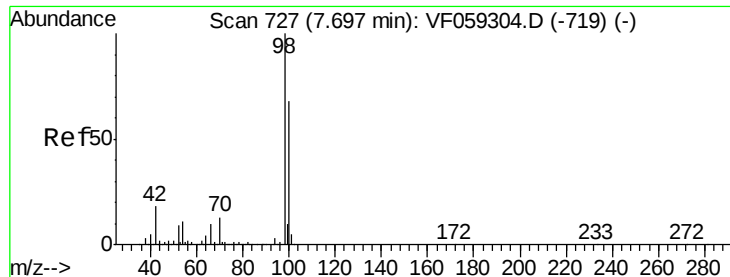
Tot Ion: 41 Resp: 66
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 64.4 96.6#



#49
1,4-Dioxane
Concen: 845.549 ug/l
RT: 6.58 min Scan# 614
Delta R.T. -0.26 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 89.1 46.6 69.8#





#50

Toluene-d8

Concen: 46.085 ug/l

RT: 7.67 min Scan# 724

Delta R.T. -0.03 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

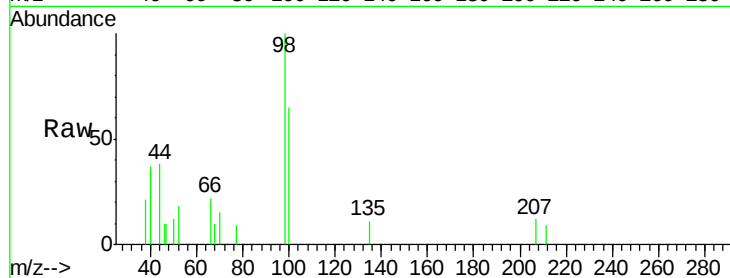
ClientSampleId :

Tot Ion: 98 Resp: 2632

Ion Ratio Lower Upper

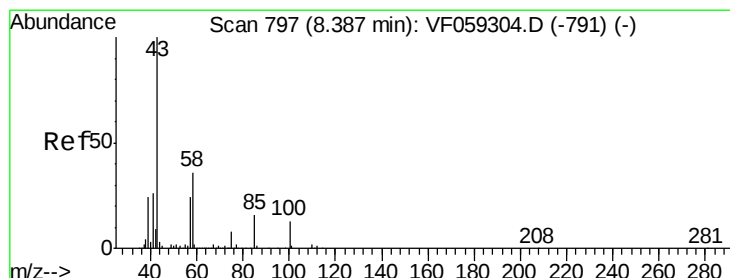
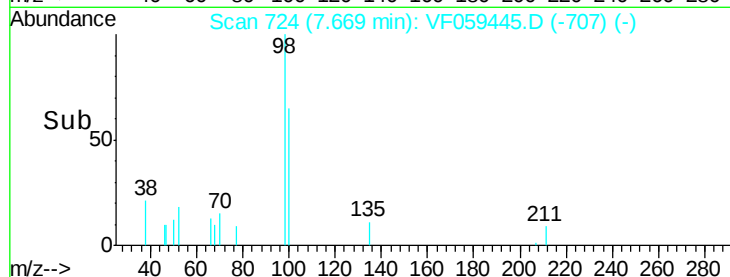
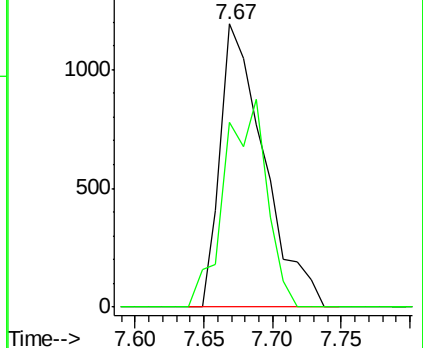
98 100

100 65.3 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 4.054 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.06 min

Lab File: VF059445.D

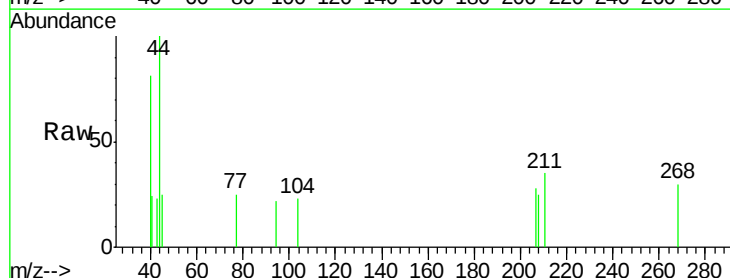
Acq: 5 Jul 2018 20:22

Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

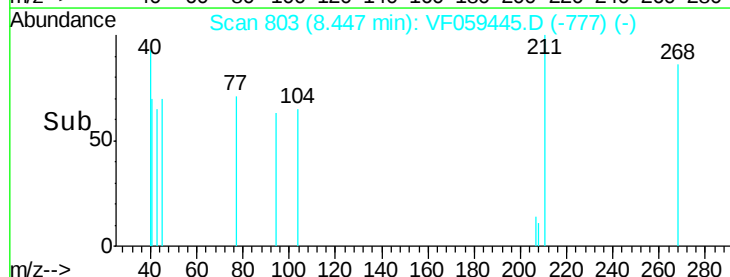
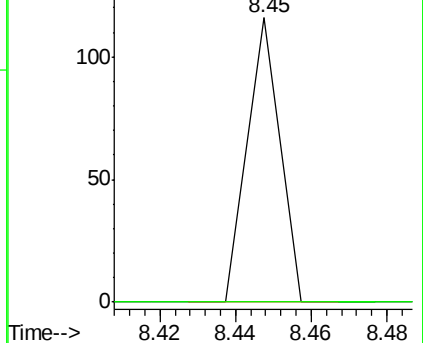
43 100

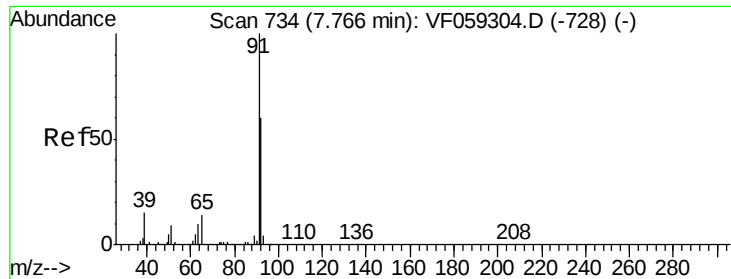
58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 2.273 ug/l

RT: 7.74 min Scan# 731

Delta R.T. -0.03 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

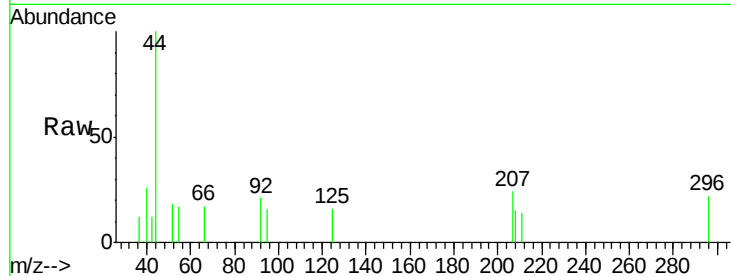
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 92 Resp: 104

Ion Ratio Lower Upper

92 100

91 0.0 132.8 199.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.74

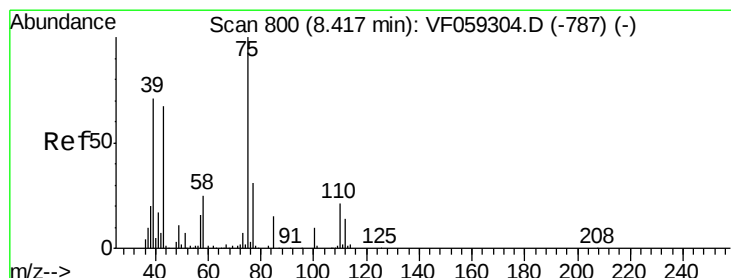
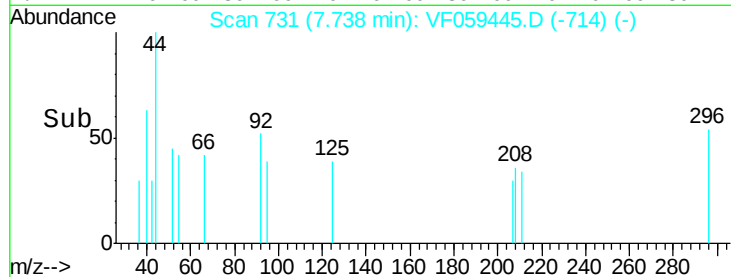
150

100

50

0

Time--> 7.70 7.72 7.74 7.76



#53

t-1,3-Dichloropropene

Concen: 2.062 ug/l

RT: 8.35 min Scan# 793

Delta R.T. -0.07 min

Lab File: VF059445.D

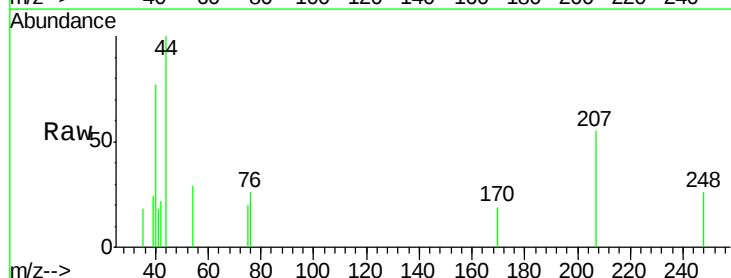
Acq: 5 Jul 2018 20:22

Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.35

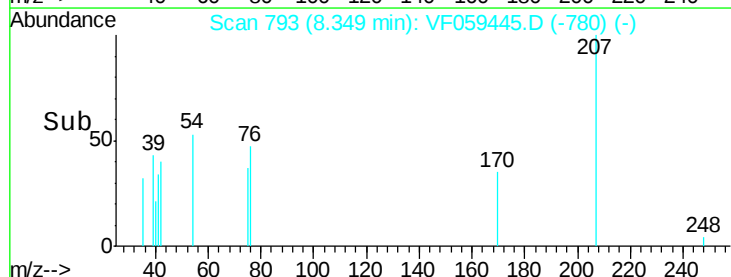
150

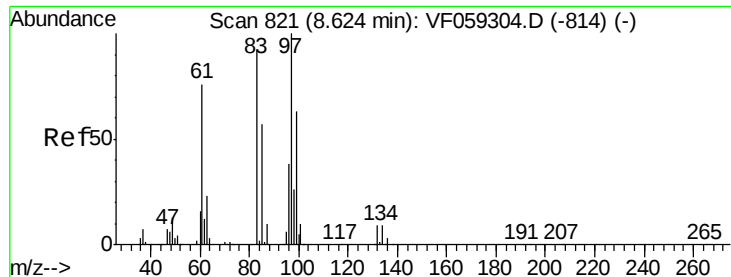
100

50

0

Time--> 8.32 8.34 8.36 8.38





#55

1,1,2-Trichloroethane

Concen: 5.179 ug/l

RT: 8.65 min Scan# 824

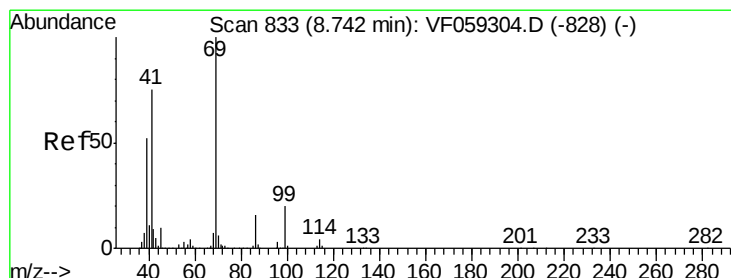
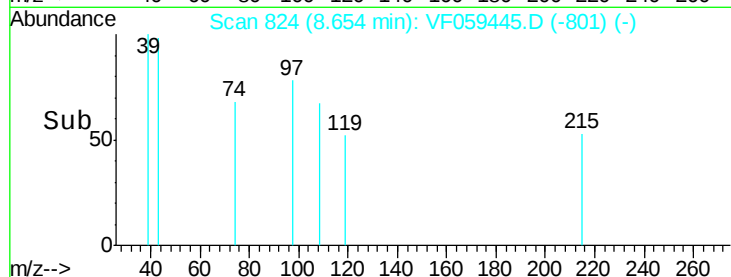
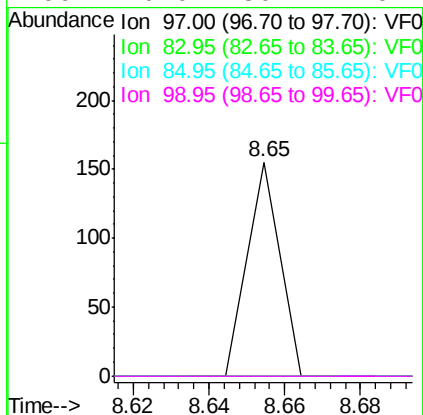
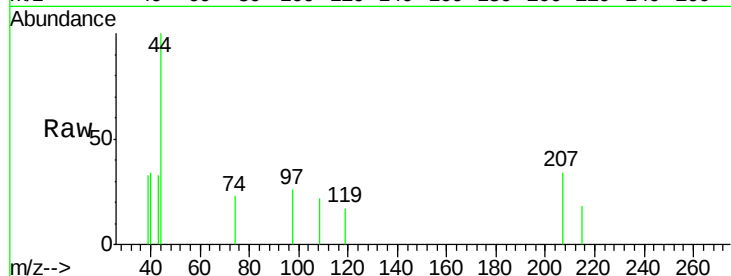
Delta R.T. 0.03 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	97	Resp:	92
Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.8	110.8#
85	0.0	45.5	68.3#
99	0.0	50.7	76.1#



#56

Ethyl methacrylate

Concen: 3.453 ug/l

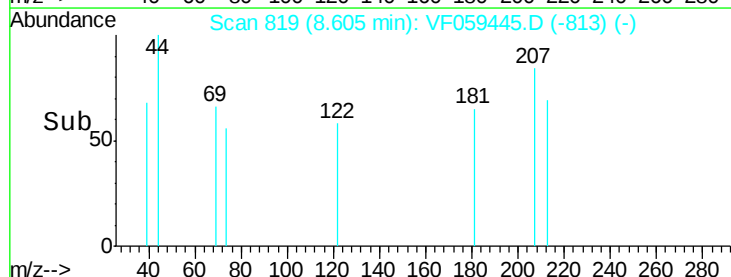
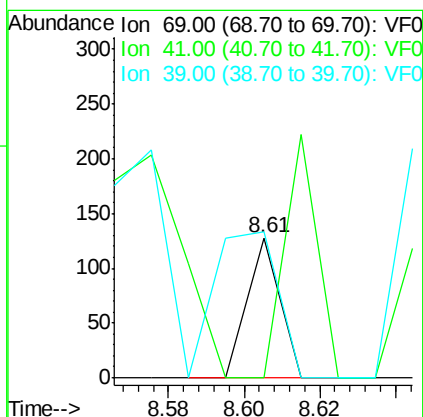
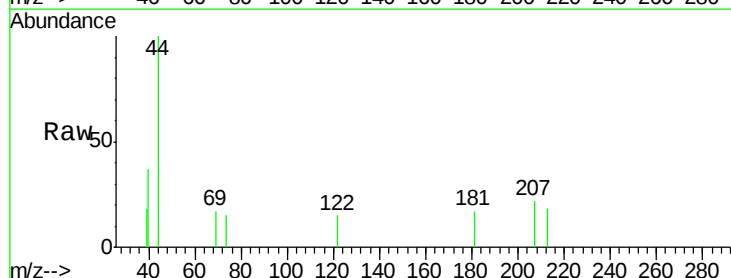
RT: 8.61 min Scan# 819

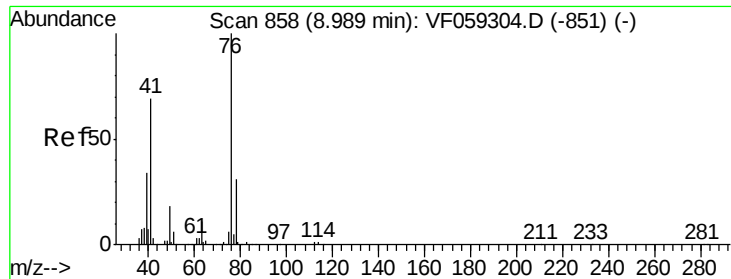
Delta R.T. -0.14 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Tgt Ion:	69	Resp:	76
Ion	Ratio	Lower	Upper
69	100		
41	0.0	60.3	90.5#
39	103.9	42.2	63.4#





#57

1,3-Dichloropropane

Concen: 2.035 ug/l

RT: 8.95 min Scan# 854

Delta R.T. -0.04 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

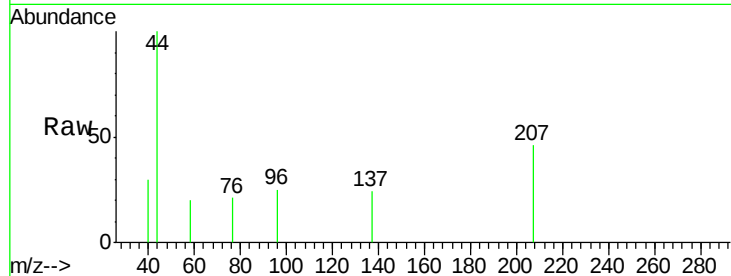
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 62

Ion Ratio Lower Upper

76 100

78 0.0 24.9 37.3#



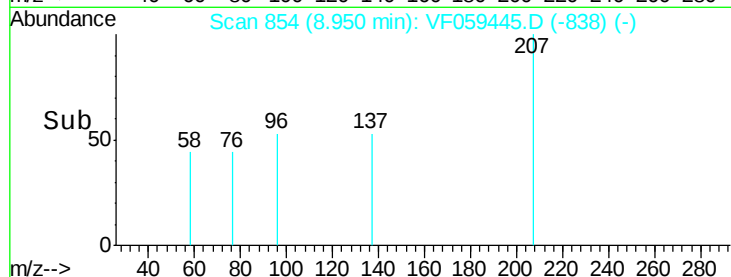
Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

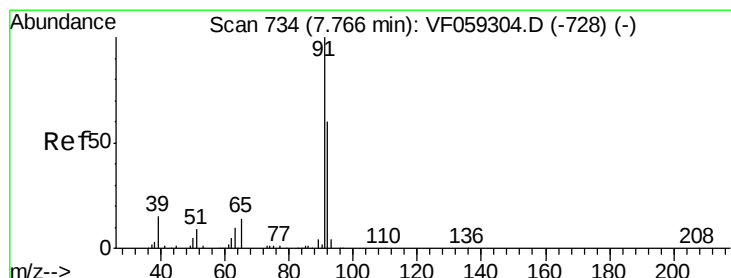
8.95

8.96

Time-->



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 82.398 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF059445.D

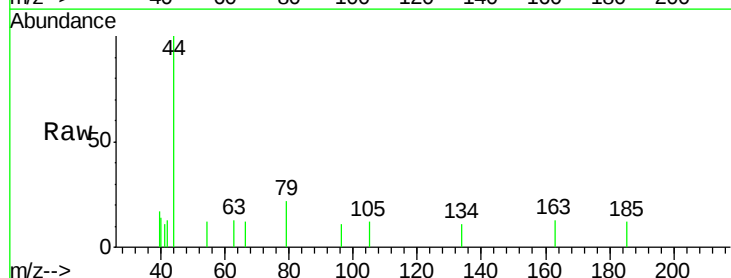
Acq: 5 Jul 2018 20:22

Tgt Ion: 63 Resp: 136

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



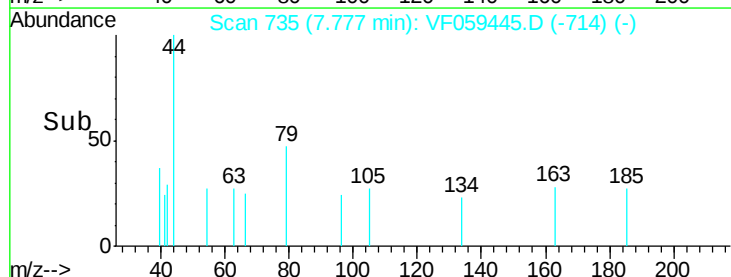
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

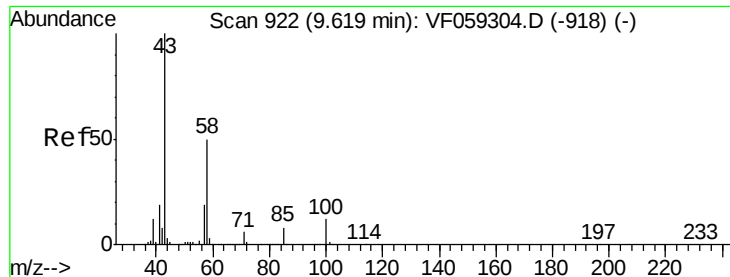
7.78

7.78

Time-->



Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. 0.00 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

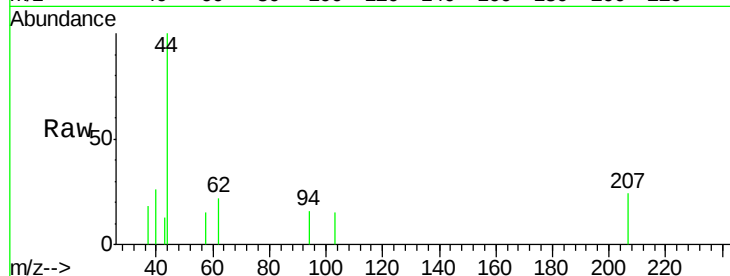
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 62

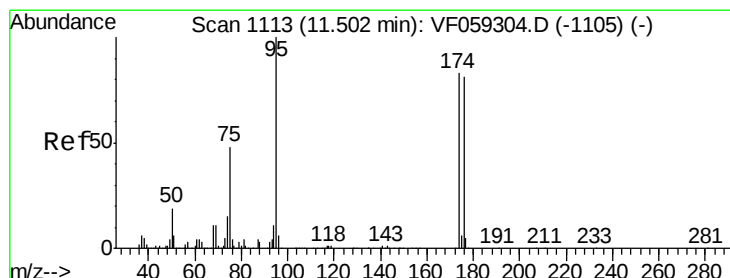
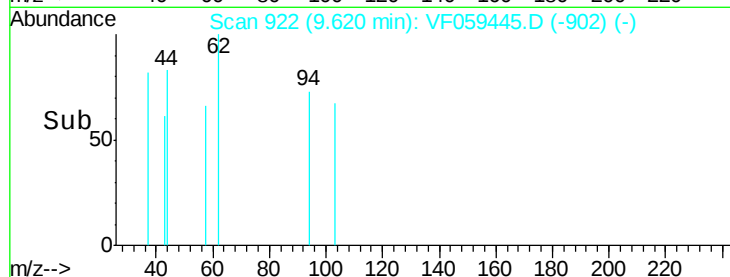
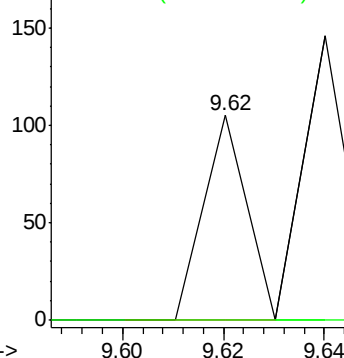
Ion Ratio Lower Upper

43 100

58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 31.288 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

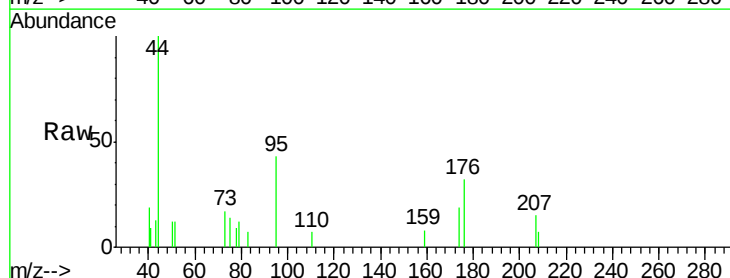
Tgt Ion: 95 Resp: 1008

Ion Ratio Lower Upper

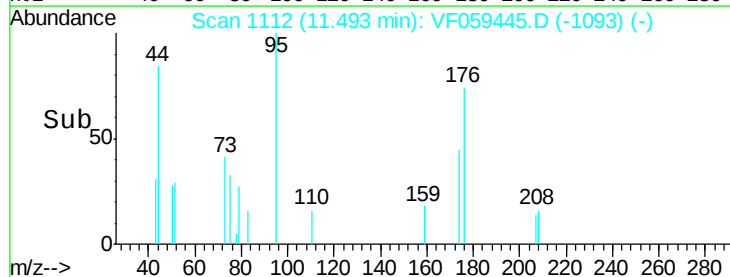
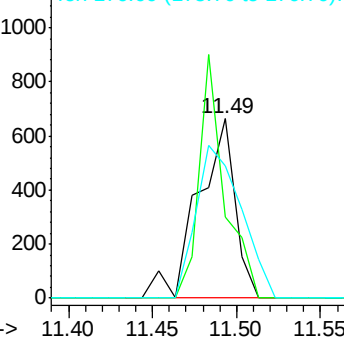
95 100

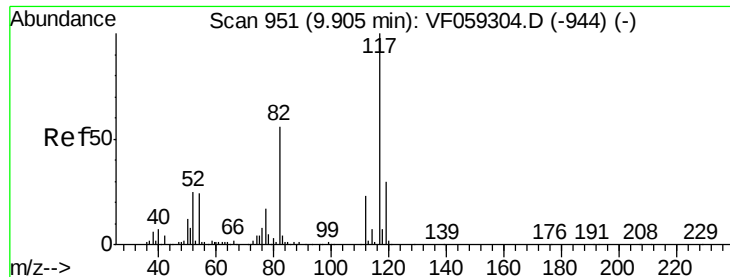
174 45.0 0.0 165.2

176 73.8 0.0 161.0



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

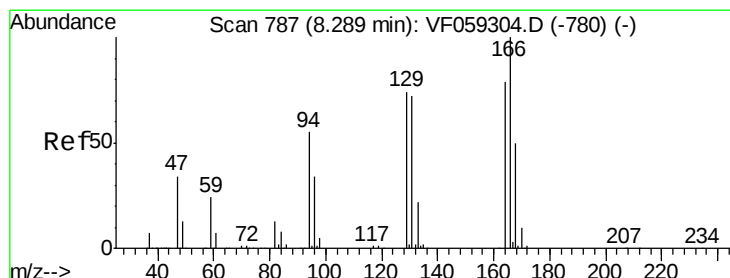
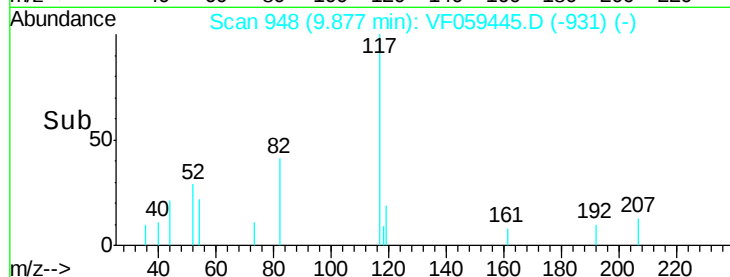
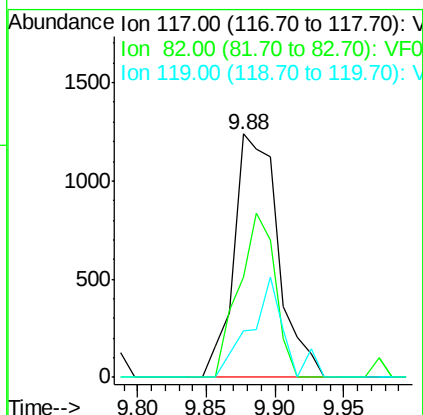
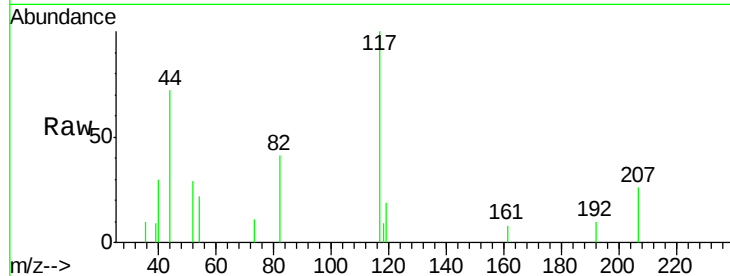




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 948
Delta R.T. -0.03 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

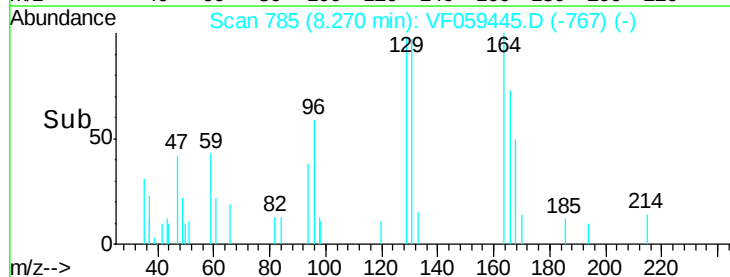
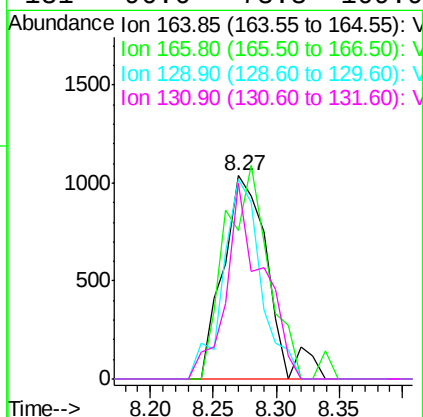
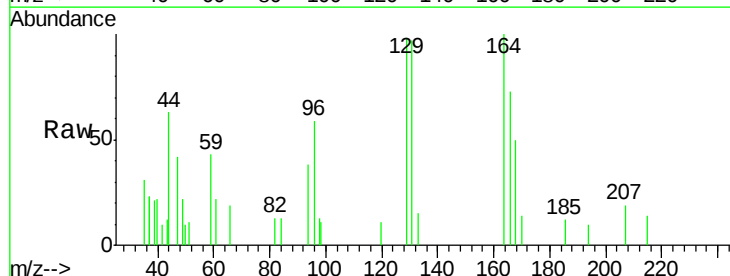
Instrument :
MSVOA_F
ClientSampleId :

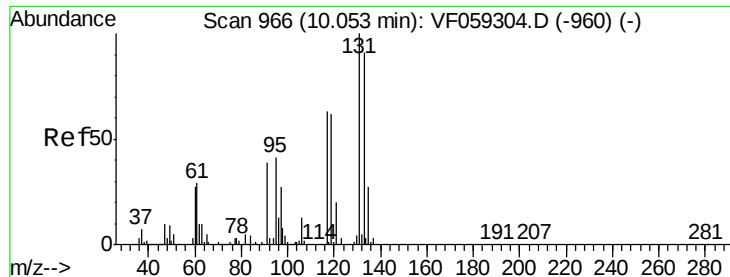
Tot Ion:117 Resp: 2773
Ion Ratio Lower Upper
117 100
82 41.0 44.6 66.8#
119 19.4 24.1 36.1#



#64
Tetrachloroethene
Concen: 141.673 ug/l
RT: 8.27 min Scan# 785
Delta R.T. -0.02 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion:164 Resp: 2548
Ion Ratio Lower Upper
164 100
166 73.4 101.1 151.7#
129 98.2 75.0 112.4
131 96.6 73.3 109.9





#66

1,1,1,2-Tetrachloroethane

Concen: 4.770 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.12 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

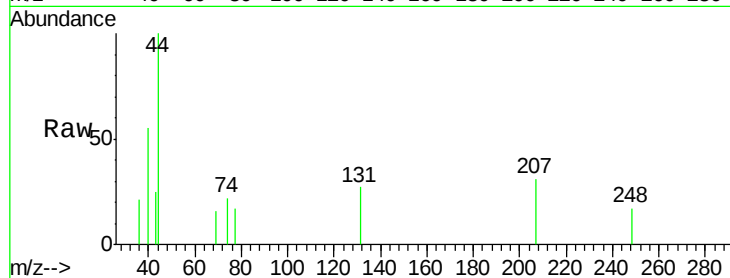
Tot Ion:131 Resp: 106

Ion Ratio Lower Upper

131 100

133 0.0 45.3 135.9#

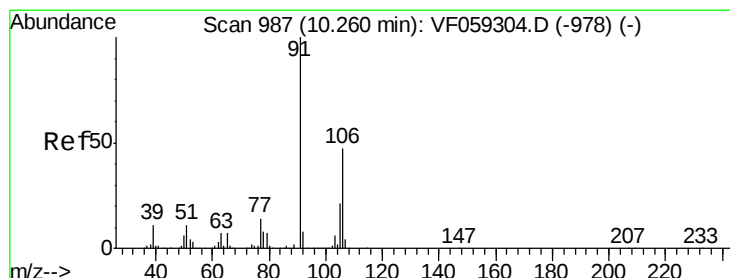
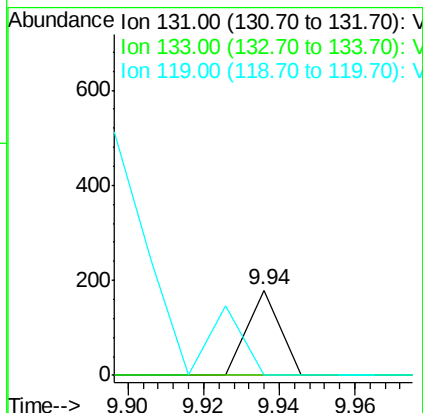
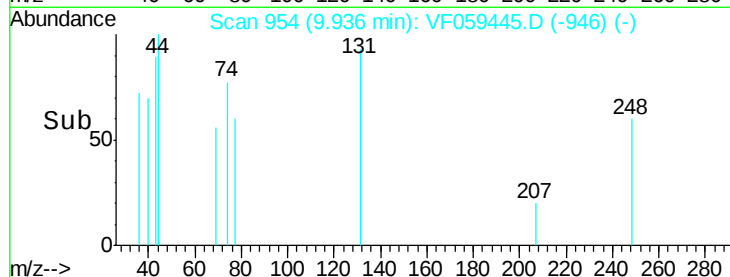
119 0.0 31.3 93.9#



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: 2.159 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.02 min

Lab File: VF059445.D

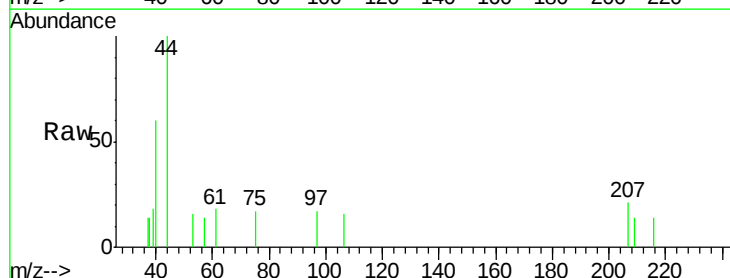
Acq: 5 Jul 2018 20:22

Tgt Ion:106 Resp: 67

Ion Ratio Lower Upper

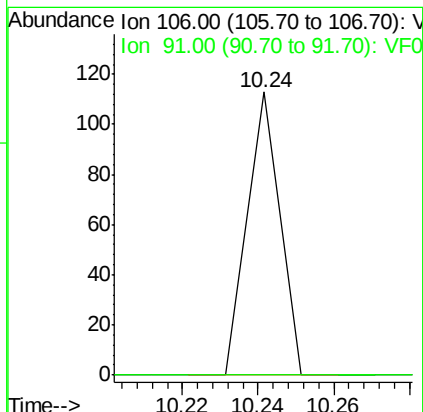
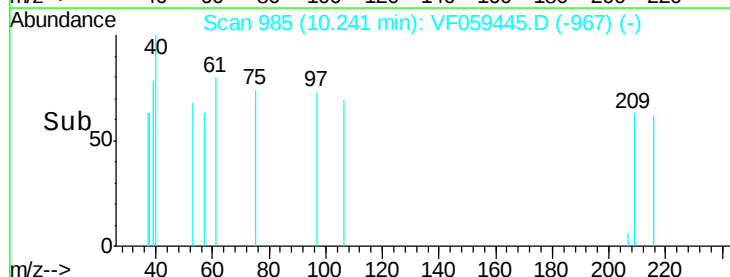
106 100

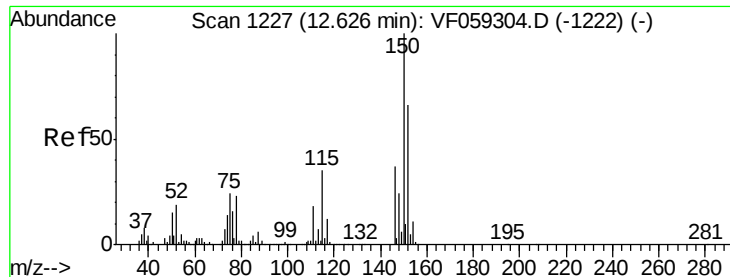
91 0.0 170.8 256.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



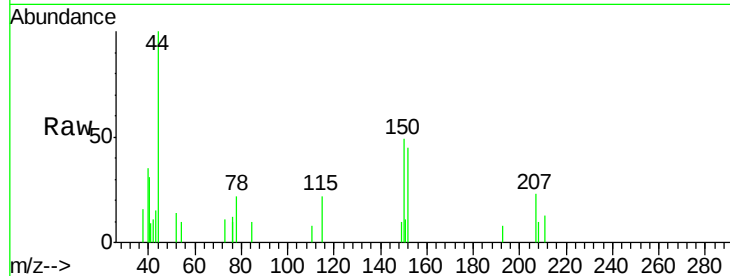


#72

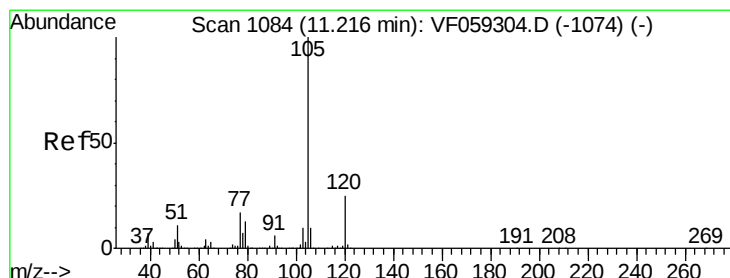
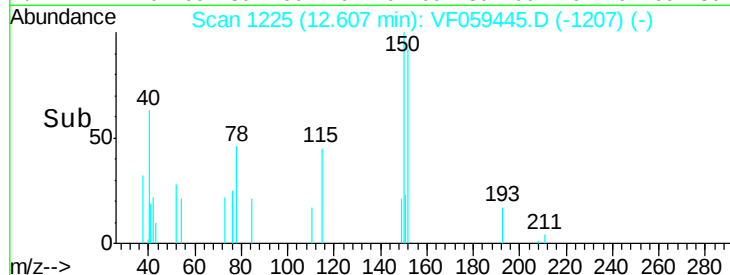
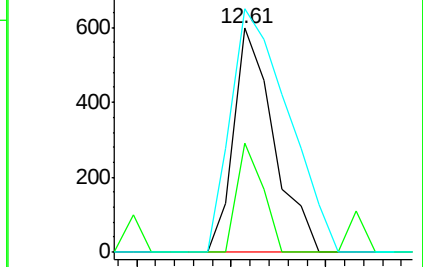
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	48.8	27.1	81.3
150	108.7	0.0	305.2



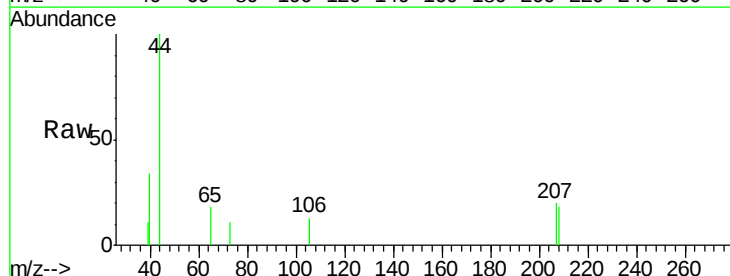
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



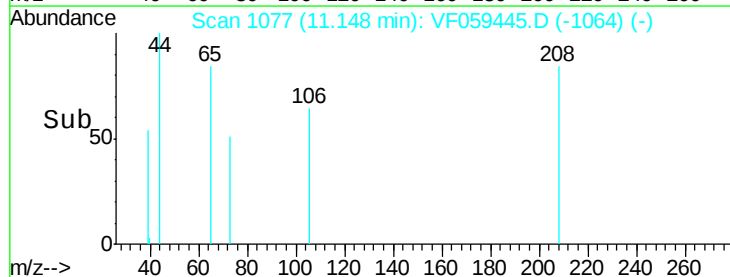
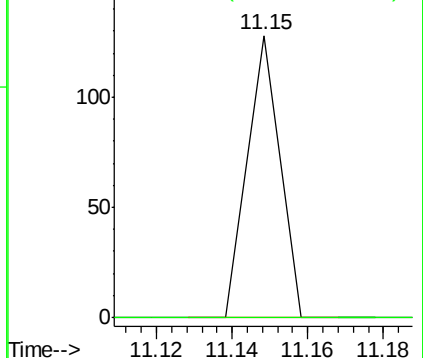
#73

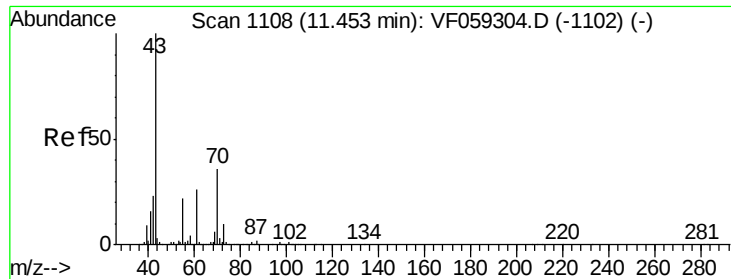
Isopropylbenzene
Concen: 1.491 ug/l
RT: 11.15 min Scan# 1077
Delta R.T. -0.07 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.3	36.8#



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

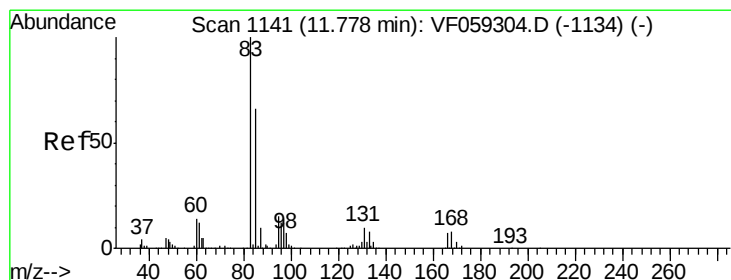
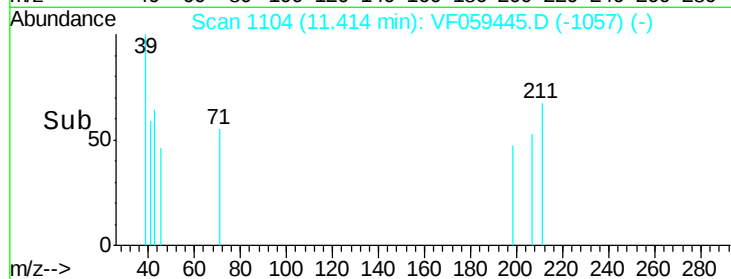
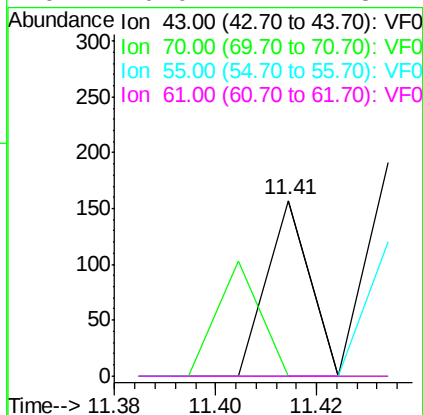
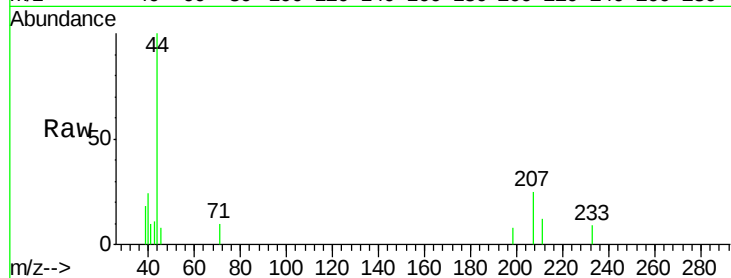




#74
N-amvl acetate
Concen: 5.027 ug/l
RT: 11.41 min Scan# 1104
Delta R.T. -0.04 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

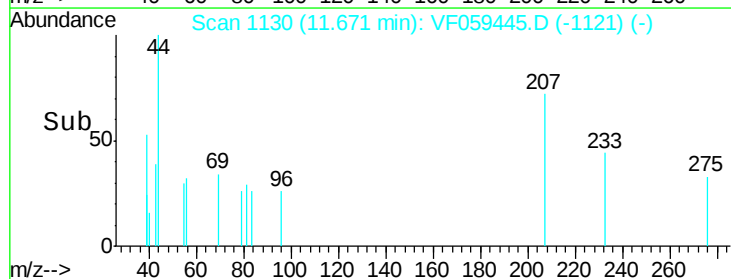
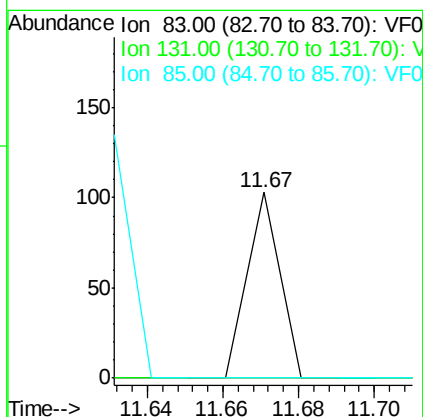
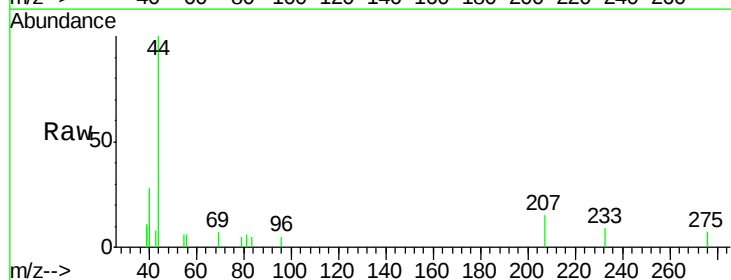
Instrument :
MSVOA_F
ClientSampled :

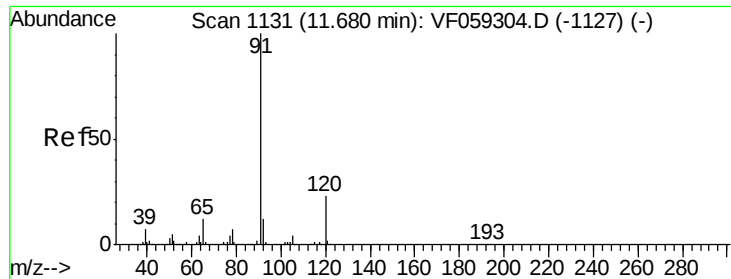
Tot Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
70 0.0 28.8 43.2#
55 0.0 17.4 26.0#
61 0.0 21.1 31.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 4.738 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. -0.11 min
Lab File: VF059445.D
Acq: 5 Jul 2018 20:22

Tgt Ion: 83 Resp: 61
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 0.0 32.8 98.4#





#78

n-propylbenzene

Concen: 1.470 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.02 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

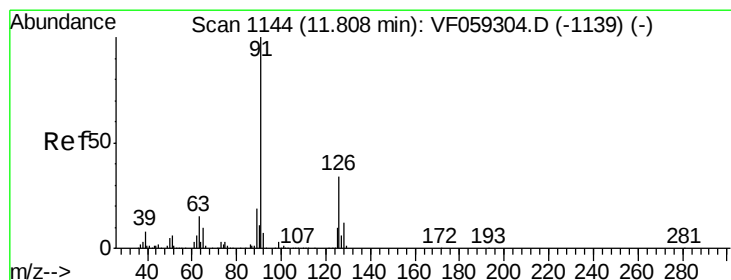
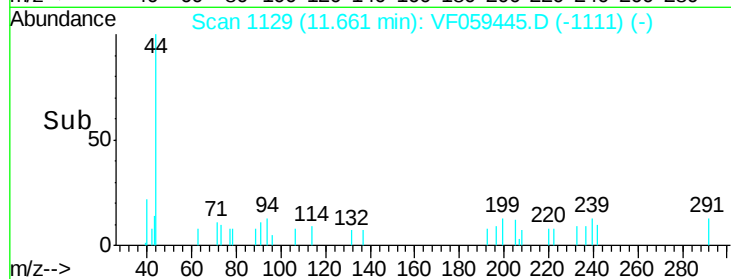
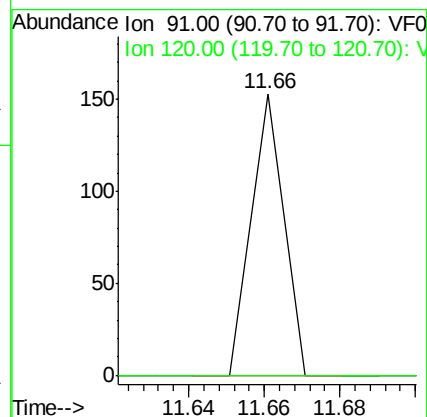
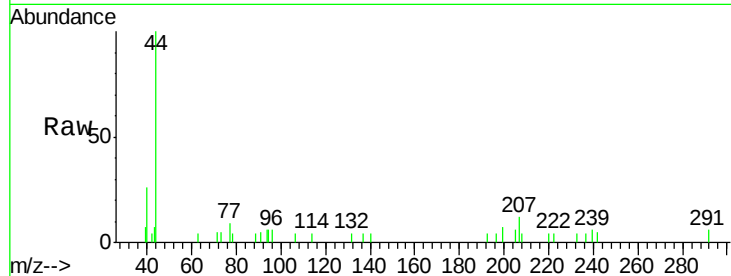
ClientSampleId :

Tot Ion: 91 Resp: 90

Ion Ratio Lower Upper

91 100

120 0.0 11.7 35.0#



#79

2-Chlorotoluene

Concen: 2.406 ug/l

RT: 11.66 min Scan# 1129

Delta R.T. -0.15 min

Lab File: VF059445.D

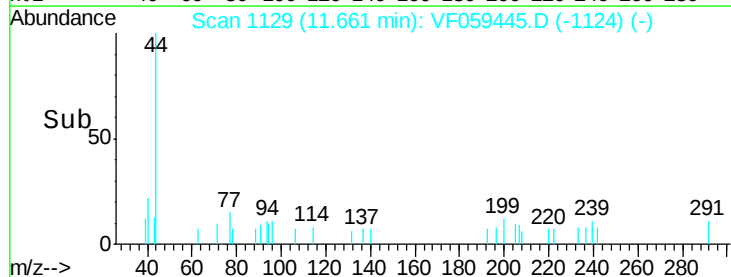
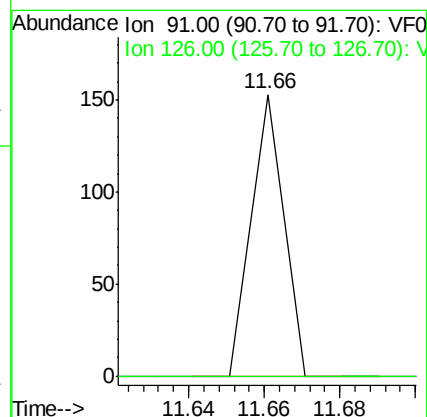
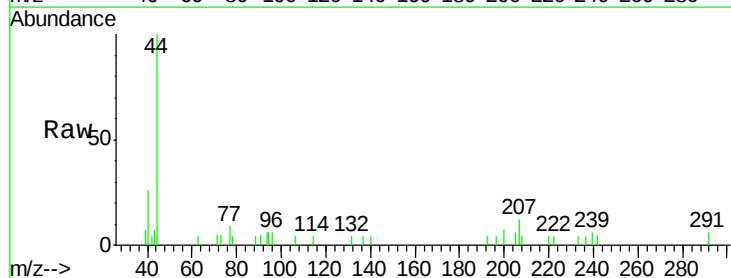
Acq: 5 Jul 2018 20:22

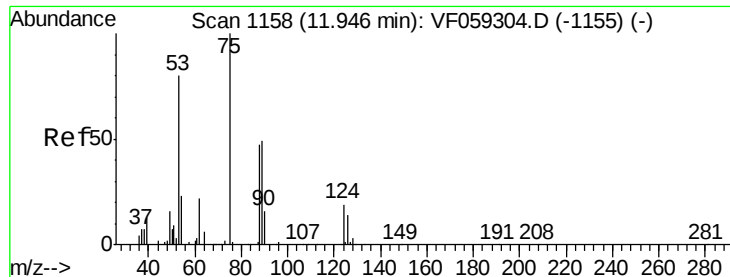
Tgt Ion: 91 Resp: 90

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 10.381 ug/l

RT: 12.05 min Scan# 1168

Delta R.T. 0.10 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

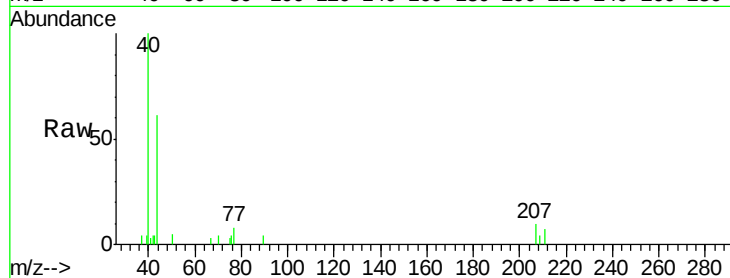
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

53 0.0 68.8 103.2#

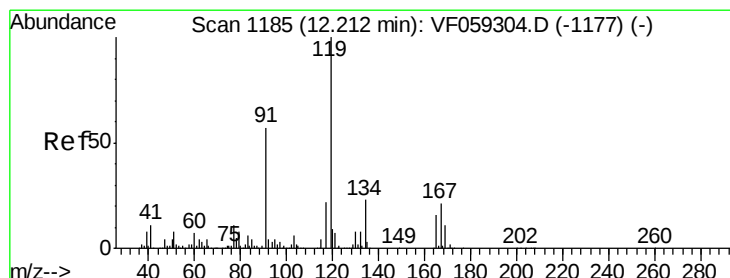
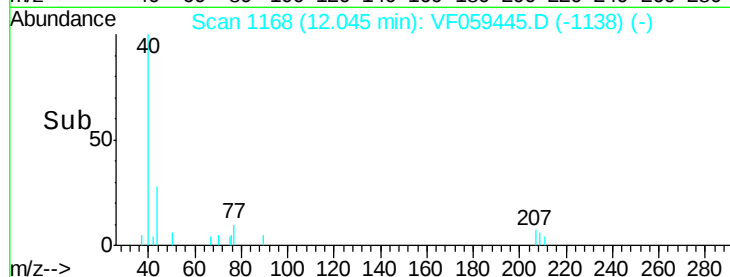
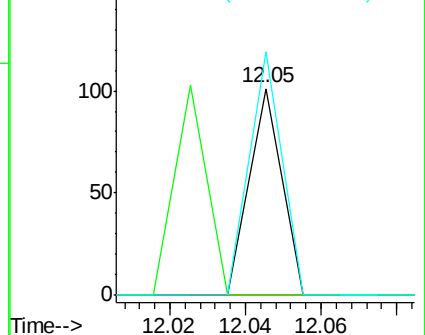
89 117.8 42.0 63.0#



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



#83

tert-Butylbenzene

Concen: 4.725 ug/l

RT: 12.14 min Scan# 1178

Delta R.T. -0.07 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

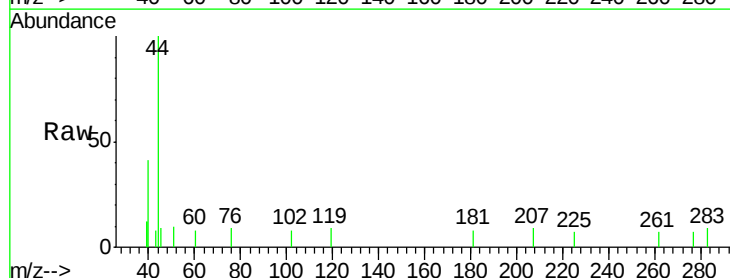
Tgt Ion: 119 Resp: 211

Ion Ratio Lower Upper

119 100

91 0.0 28.4 85.2#

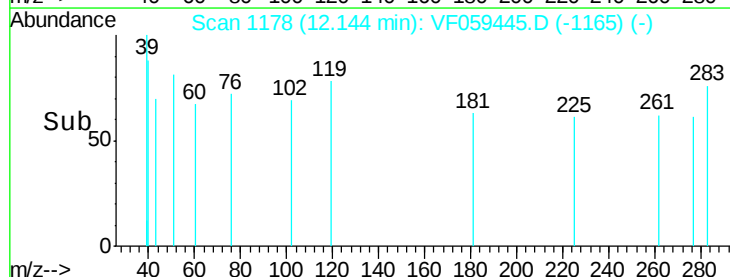
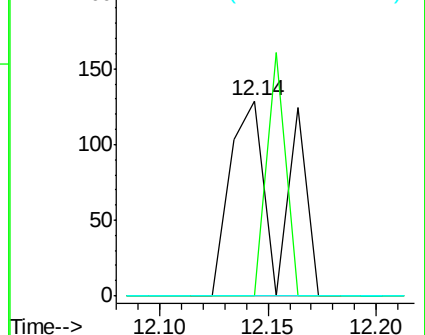
134 0.0 11.7 35.1#

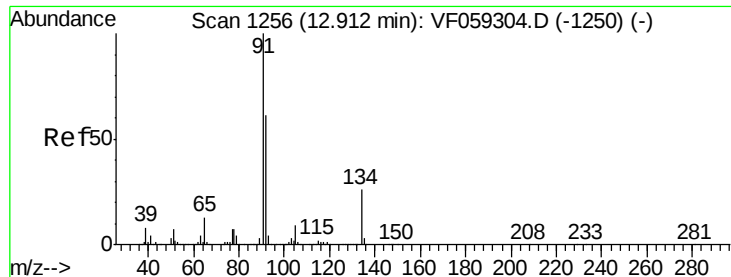


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V





#89

n-Butylbenzene

Concen: 1.309 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VF059445.D

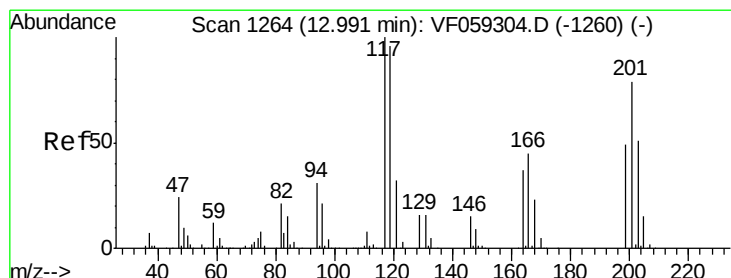
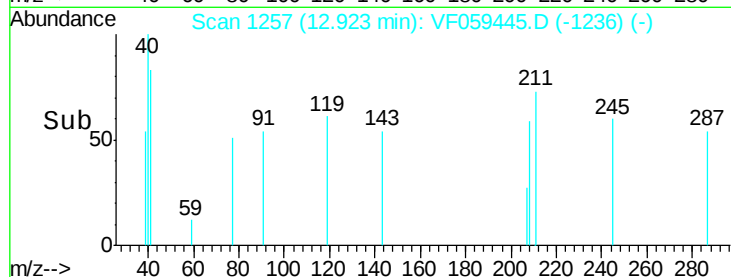
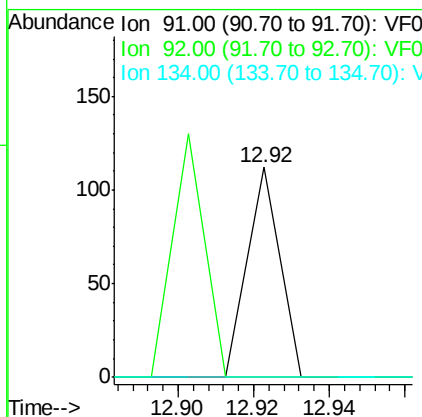
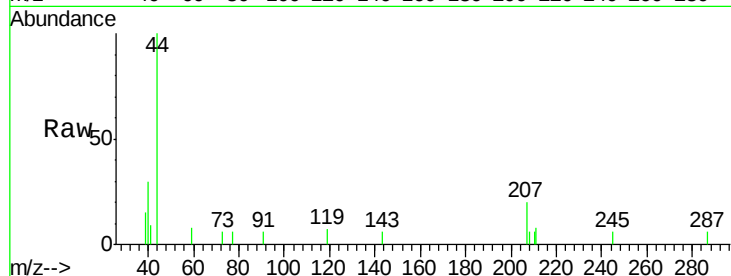
Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:	91	Resp:	66
Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.3	91.0#
134	0.0	12.9	38.7#



#90

Hexachloroethane

Concen: 7.592 ug/l

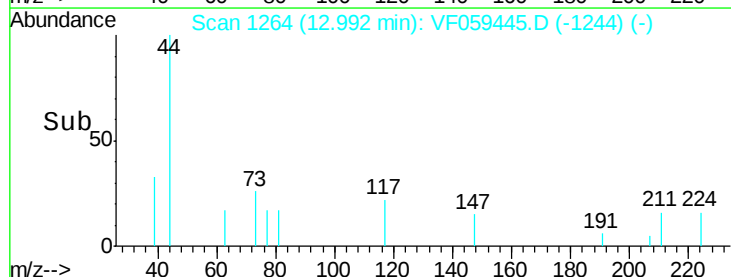
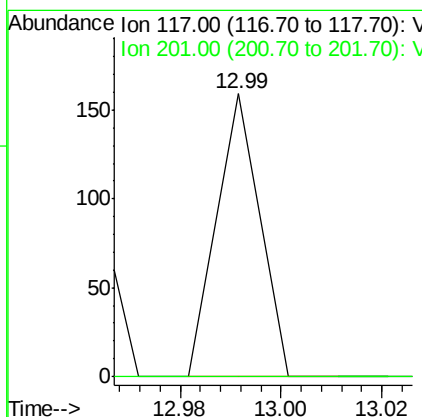
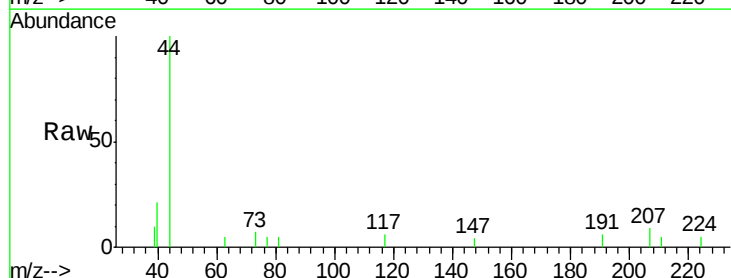
RT: 12.99 min Scan# 1264

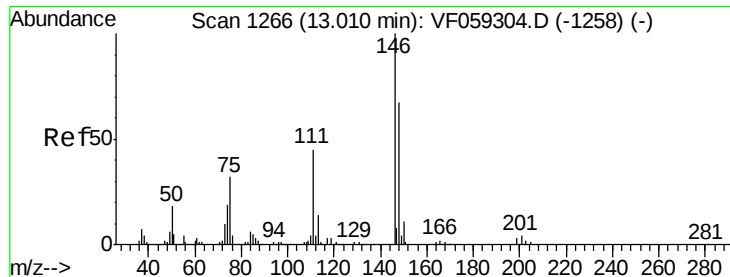
Delta R.T. 0.00 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Tgt Ion:	117	Resp:	94
Ion	Ratio	Lower	Upper
117	100		
201	0.0	39.5	118.5#





#91

1,2-Dichlorobenzene

Concen: 3.155 ug/l

RT: 13.05 min Scan# 1270

Delta R.T. 0.04 min

Lab File: VF059445.D

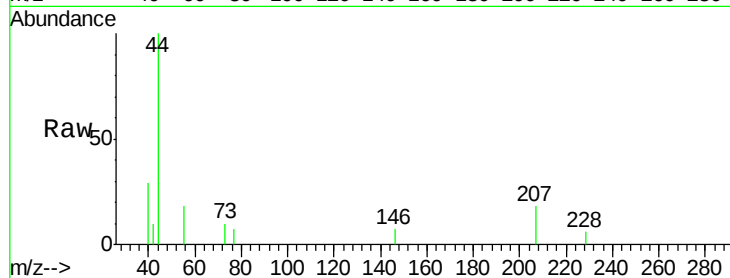
Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	146	Resp:	81
Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.0#
148	0.0	33.5	100.4#



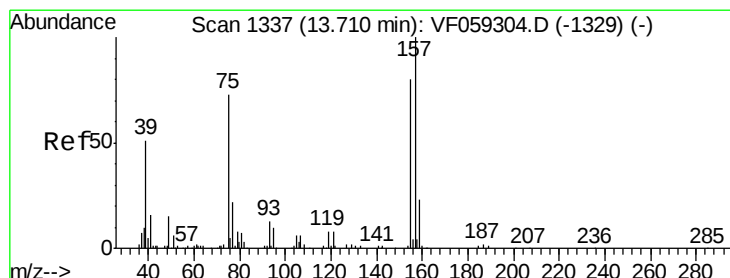
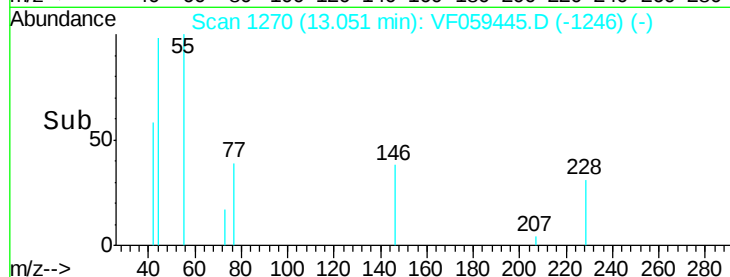
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.05

Time--> 13.02 13.04 13.06 13.08



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.477 ug/l

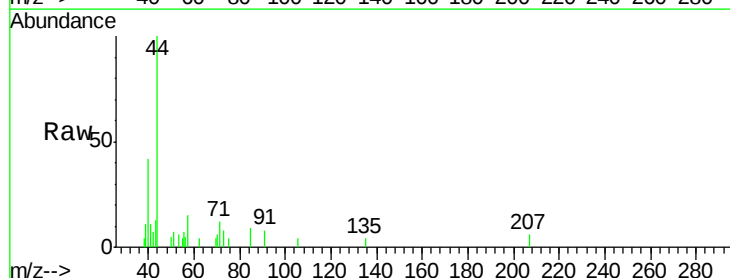
RT: 13.70 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Tgt Ion:	75	Resp:	67
Ion	Ratio	Lower	Upper
75	100		
155	0.0	54.6	163.8#
157	0.0	68.7	205.9#



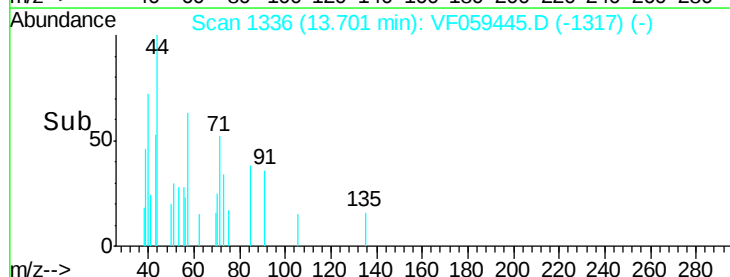
Abundance Ion 75.00 (74.70 to 75.70): VF0

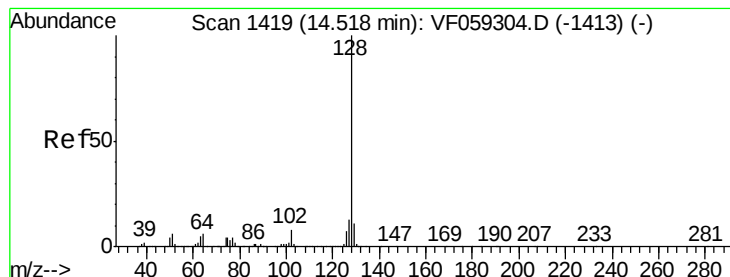
Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

13.70

Time--> 13.68 13.70 13.72





#95

Naphthalene

Concen: 1.586 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.03 min

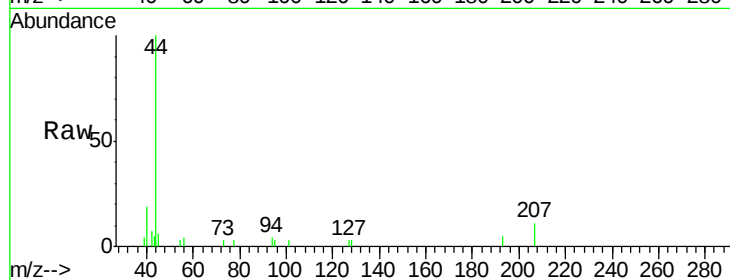
Lab File: VF059445.D

Acq: 5 Jul 2018 20:22

Instrument :

MSVOA_F

ClientSampleId :



Tot Ion:	128	Resp:	63
Ion	Ratio	Lower	Upper
128	100		
127	104.7	10.1	15.1#
129	0.0	8.8	13.2#

