

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\
 Data File : VF061892.D
 Acq On : 11 Mar 2019 16:28
 Operator : VA/AP
 Sample : K1824-09
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-28

Quant Time: Mar 12 05:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	3591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	4248	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	2633	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	841	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	440	16.83	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	33.66%	
35) Dibromofluoromethane	4.12	113	1086	36.63	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	73.26%	
50) Toluene-d8	7.56	98	4513	51.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.41	95	1151	33.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	66.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	89	2.019	ug/l #	47
3) Chloromethane	1.12	50	273	6.389	ug/l #	45
4) Vinyl Chloride	1.05	62	61	1.504	ug/l #	43
5) Bromomethane	1.31	94	361	13.060	ug/l #	3
6) Chloroethane	1.46	64	67	3.475	ug/l #	41
8) Diethyl Ether	1.76	74	143	12.694	ug/l #	1
9) 1,1,2-Trichlorotrifluoroet	1.98	101	86	2.556	ug/l #	21
11) Tert butyl alcohol	2.42	59	96	64.676	ug/l #	64
12) 1,1-Dichloroethene	1.80	96	138	4.493	ug/l #	1
13) Acrolein	2.04	56	273	145.150	ug/l #	42
14) Allyl chloride	2.09	41	394	11.645	ug/l #	20
15) Acrylonitrile	2.89	53	217	45.912	ug/l #	1
16) Acetone	2.25	43	454	82.878	ug/l #	50
18) Methyl Acetate	2.38	43	2060	143.943	ug/l #	62
19) Methyl tert-butyl Ether	2.45	73	200	3.850	ug/l #	56
20) Methylene Chloride	2.18	84	110	Below Cal	#	7
21) trans-1,2-Dichloroethene	2.30	96	70	2.422	ug/l #	1
22) Diisopropyl ether	2.79	45	412	4.681	ug/l #	48
23) Vinyl Acetate	3.21	43	300	7.630	ug/l #	76
24) 1,1-Dichloroethane	2.86	63	179	3.403	ug/l #	85
25) 2-Butanone	4.36	43	160	14.359	ug/l #	56
26) 2,2-Dichloropropane	3.59	77	63	2.683	ug/l #	55
27) cis-1,2-Dichloroethene	3.47	96	61	1.523	ug/l #	1
28) Bromochloromethane	3.86	49	69	3.009	ug/l #	2
29) Tetrahydrofuran	4.09	42	82	17.064	ug/l #	33
30) Chloroform	3.84	83	67	1.115	ug/l #	15
31) Cyclohexane	3.67	56	66	1.198	ug/l #	1
36) 1,1-Dichloropropene	4.25	75	64	1.595	ug/l #	1
37) Ethyl Acetate	4.14	43	311	18.465	ug/l #	20
40) Benzene	4.63	78	124	1.182	ug/l #	51
41) Methacrylonitrile	4.72	41	348	37.712	ug/l #	37
43) Isopropyl Acetate	6.96	43	140	6.743	ug/l #	42
45) 1,2-Dichloropropane	6.22	63	78	3.127	ug/l #	45
47) Bromodichloromethane	6.25	83	67	1.932	ug/l #	24

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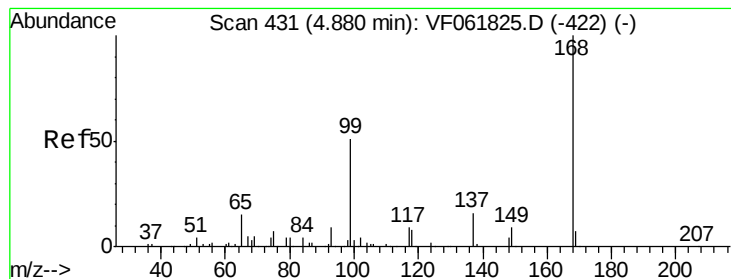
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

48) Methyl methacrylate	6.66	41	125	9.513	µg/l #	18
51) 4-Methyl-2-Pentanone	8.21	43	79	5.506	µg/l #	35
52) Toluene	7.62	92	67	1.080	µg/l	88
57) 1,3-Dichloropropane	8.96	76	77	2.634	µg/l #	43
59) 2-Hexanone	9.49	43	148	14.297	µg/l #	22
70) Styrene	10.67	104	83	1.705	µg/l #	33
74) N-amyl acetate	11.38	43	215	16.130	µg/l #	42
75) 1,1,2,2-Tetrachloroethane	11.68	83	65	6.755	µg/l #	23
78) n-propylbenzene	11.68	91	66	1.009	µg/l #	54
79) 2-Chlorotoluene	11.68	91	66	1.766	µg/l #	39
86) p-Isopropyltoluene	12.53	119	66	1.209	µg/l #	50
89) n-Butylbenzene	12.72	91	68	1.303	µg/l #	26
92) 1,2-Dibromo-3-Chloropropan	13.52	75	96	56.889	µg/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.00 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

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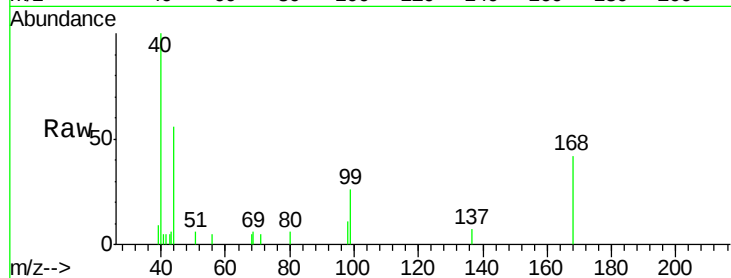
TP-28

Tot Ion:168 Resp: 3591

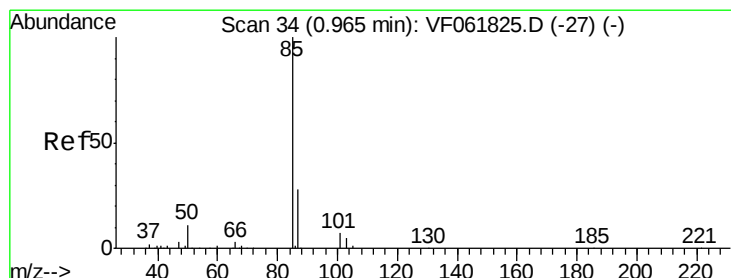
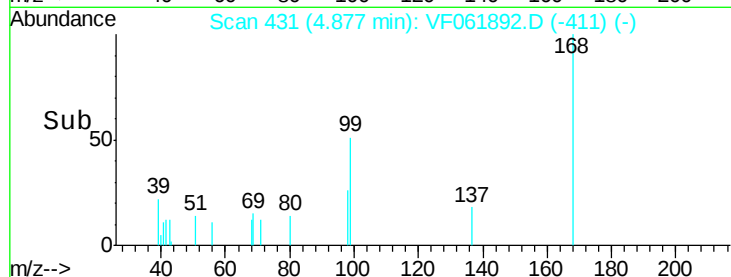
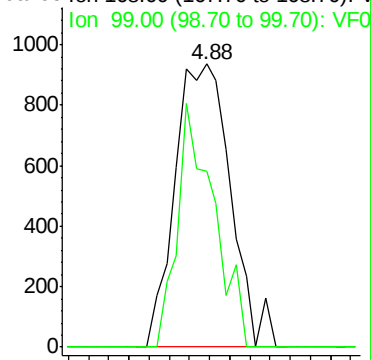
Ion Ratio Lower Upper

168 100

99 62.2 40.8 61.2#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 2.019 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.03 min

Lab File: VF061892.D

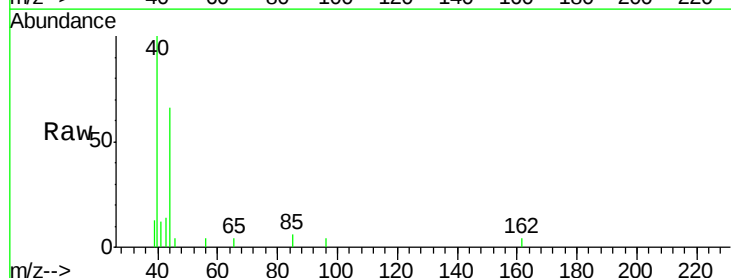
Acq: 11 Mar 2019 16:28

Tgt Ion: 85 Resp: 89

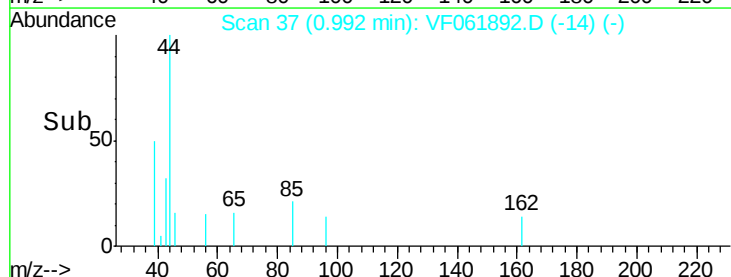
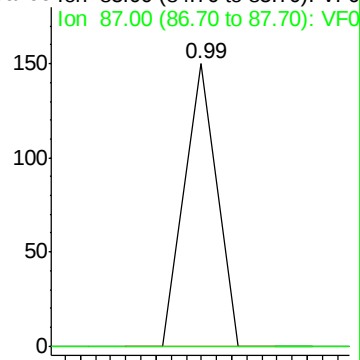
Ion Ratio Lower Upper

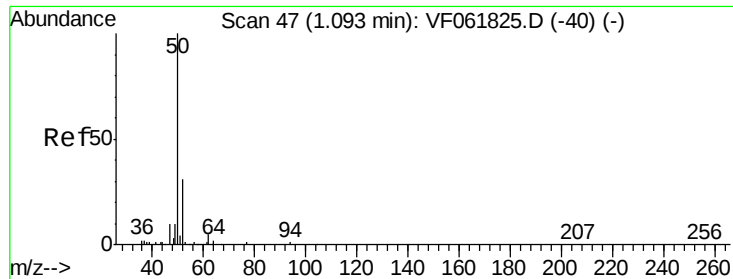
85 100

87 0.0 14.1 42.2#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 6.389 ug/l

RT: 1.12 min Scan# 50

Delta R.T. 0.03 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

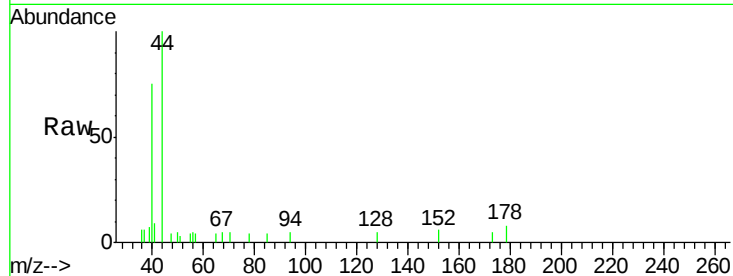
TP-28

Tot Ion: 50 Resp: 273

Ion Ratio Lower Upper

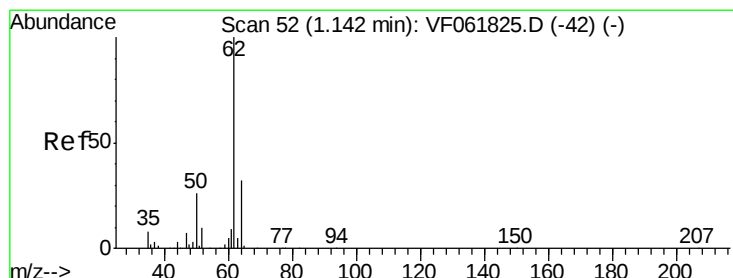
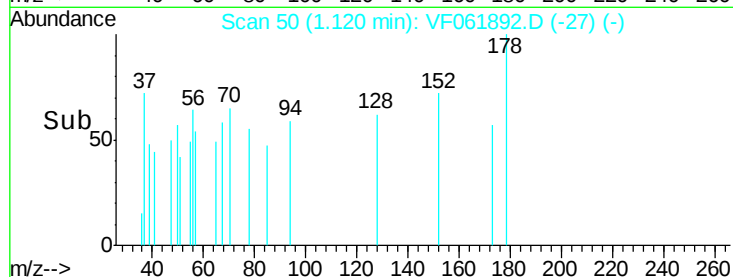
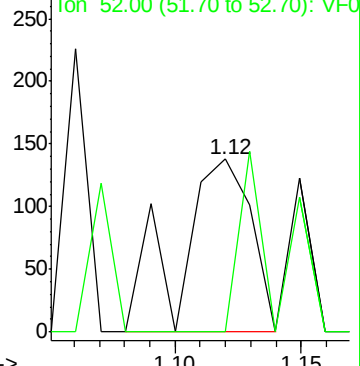
50 100

52 0.0 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 1.504 ug/l

RT: 1.05 min Scan# 43

Delta R.T. -0.09 min

Lab File: VF061892.D

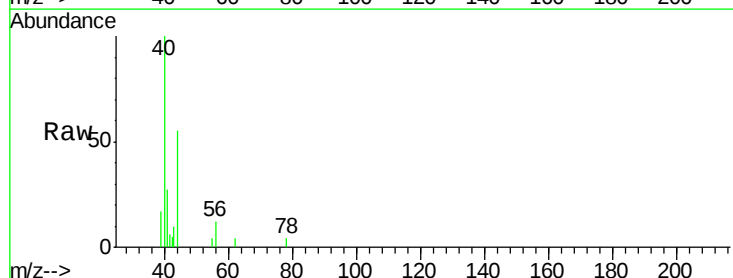
Acq: 11 Mar 2019 16:28

Tgt Ion: 62 Resp: 61

Ion Ratio Lower Upper

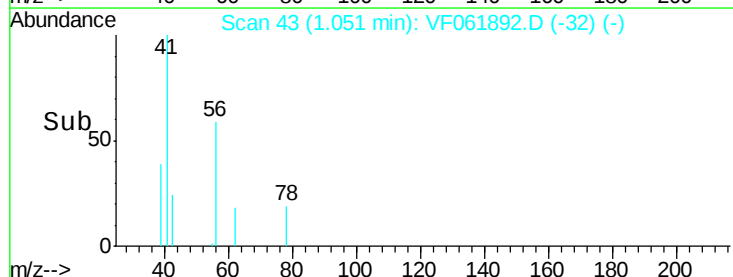
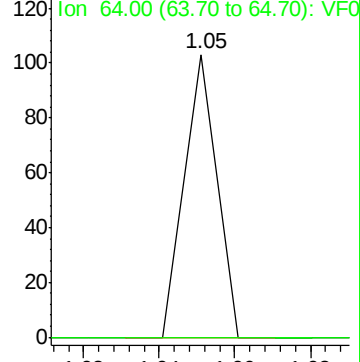
62 100

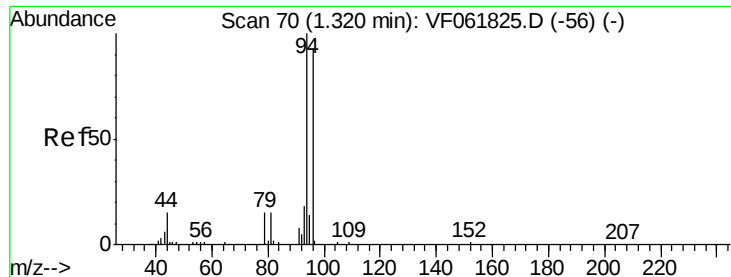
64 0.0 25.2 37.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 13.060 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

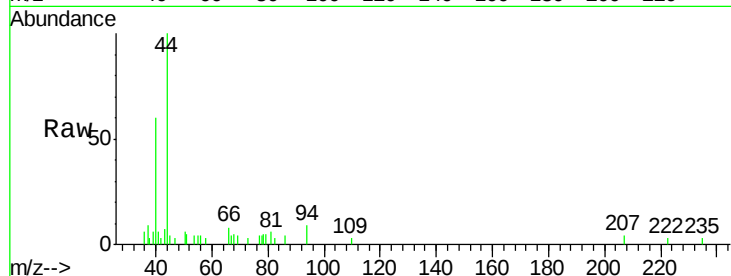
TP-28

Tot Ion: 94 Resp: 361

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.31

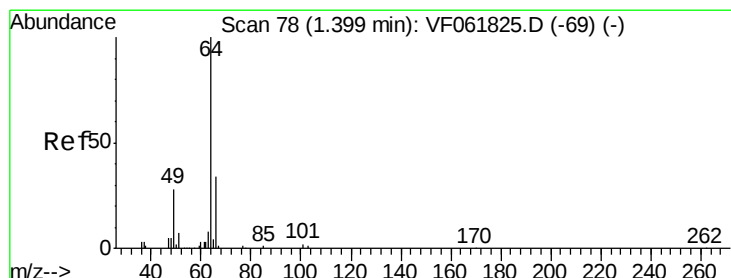
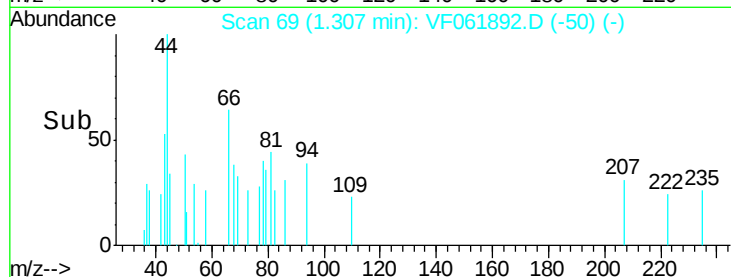
300

200

100

0

Time-->



#6

Chloroethane

Concen: 3.475 ug/l

RT: 1.46 min Scan# 84

Delta R.T. 0.06 min

Lab File: VF061892.D

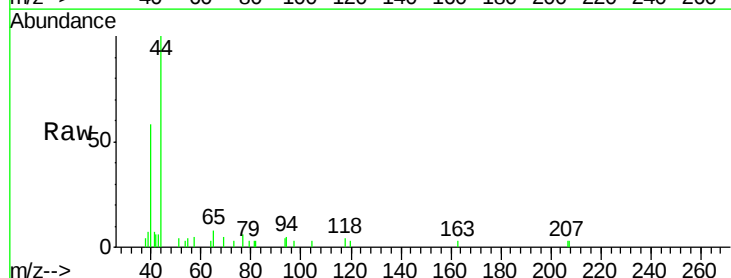
Acq: 11 Mar 2019 16:28

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.4#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.46

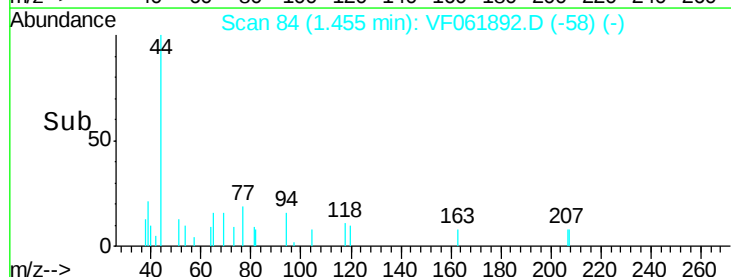
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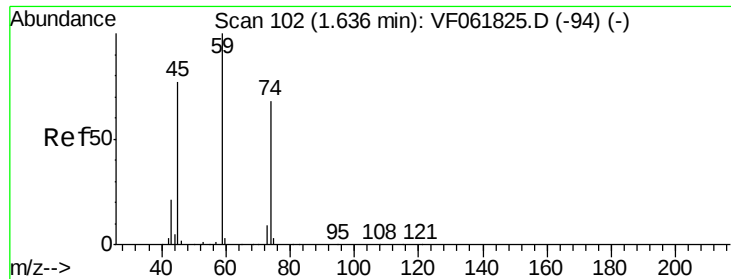
100

50

0

Time-->





#8

Diethyl Ether

Concen: 12.694 ug/l

RT: 1.76 min Scan# 115

Delta R.T. 0.13 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

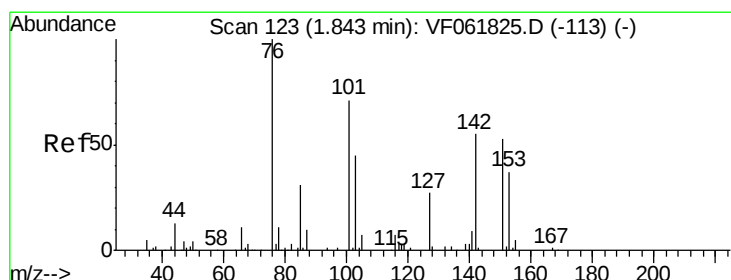
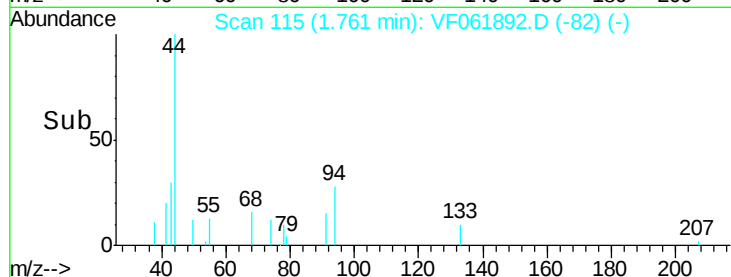
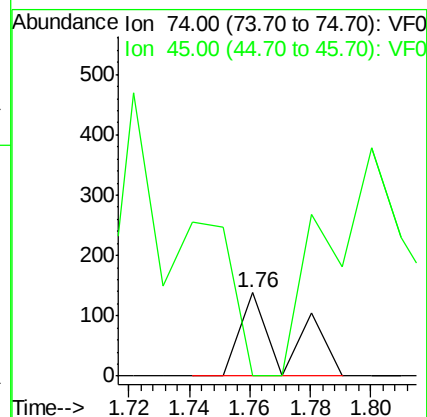
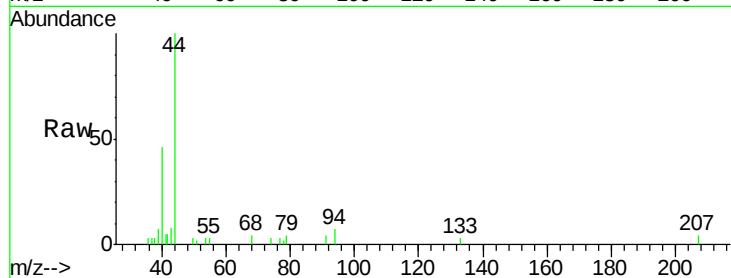
TP-28

Tot Ion: 74 Resp: 143

Ion Ratio Lower Upper

74 100

45 0.0 57.2 171.6#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.556 ug/l

RT: 1.98 min Scan# 137

Delta R.T. 0.14 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

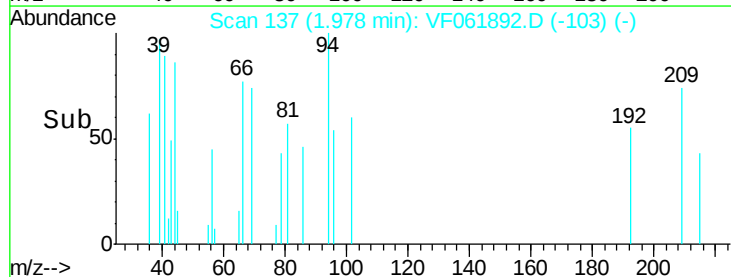
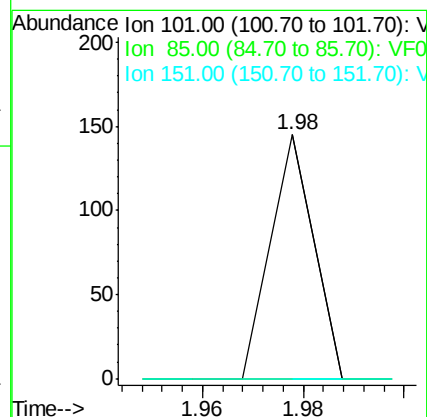
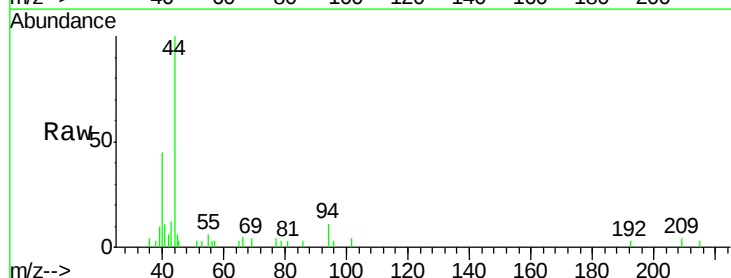
Tgt Ion: 101 Resp: 86

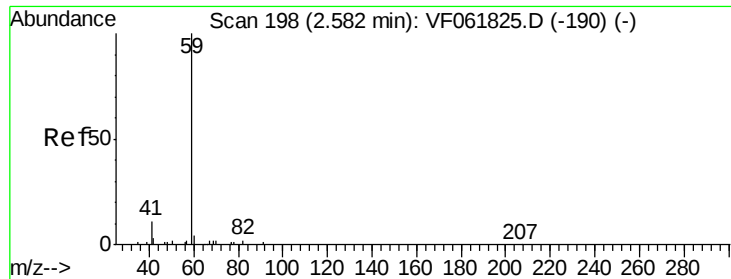
Ion Ratio Lower Upper

101 100

85 0.0 34.0 51.0#

151 0.0 57.3 85.9#



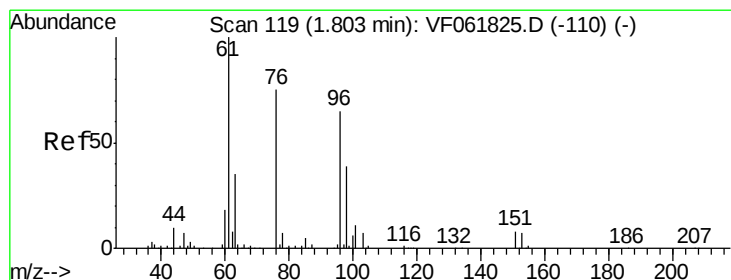
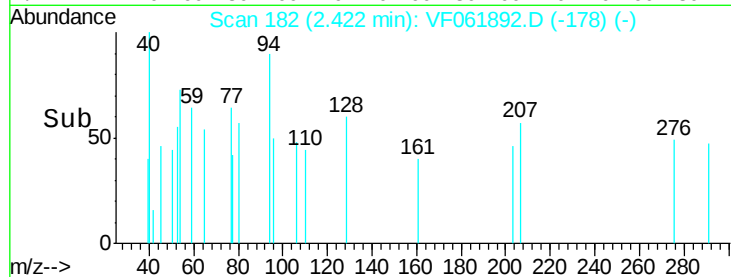
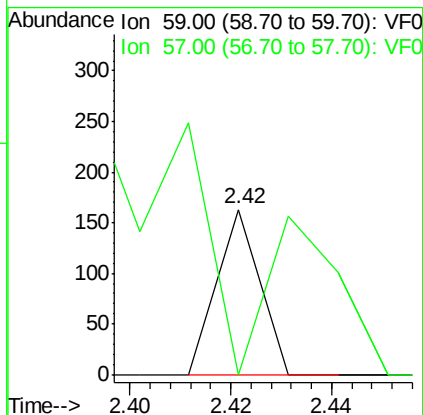
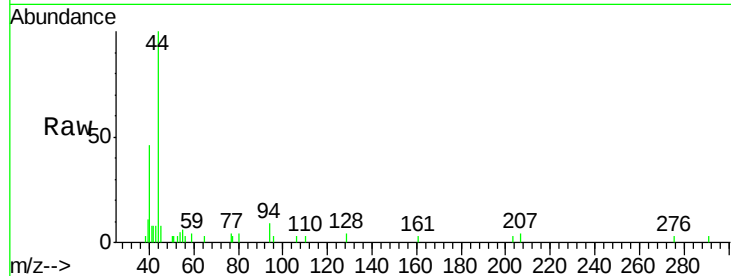


#11

Tert butyl alcohol
Concen: 64.676 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.16 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

Instrument :
MSVOA_F
ClientSampled :
TP-28

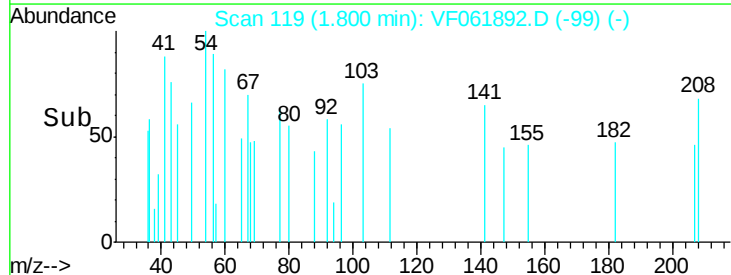
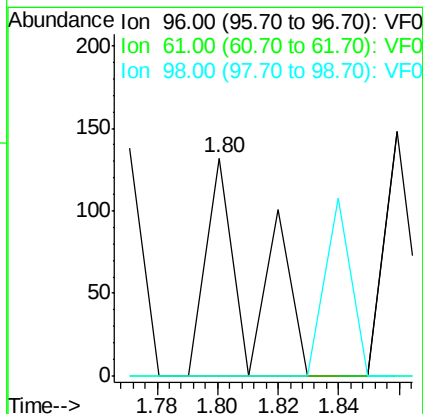
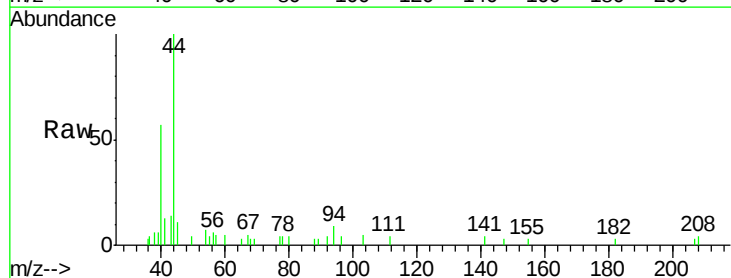
Tot Ion: 59 Resp: 96
Ion Ratio Lower Upper
59 100
57 0.0 11.8 17.6#

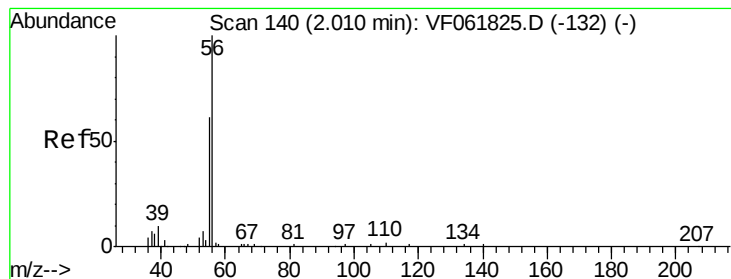


#12

1,1-Dichloroethene
Concen: 4.493 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

Tgt Ion: 96 Resp: 138
Ion Ratio Lower Upper
96 100
61 0.0 122.5 183.7#
98 0.0 47.1 70.7#





#13

Acrolein

Concen: 145.150 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.03 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

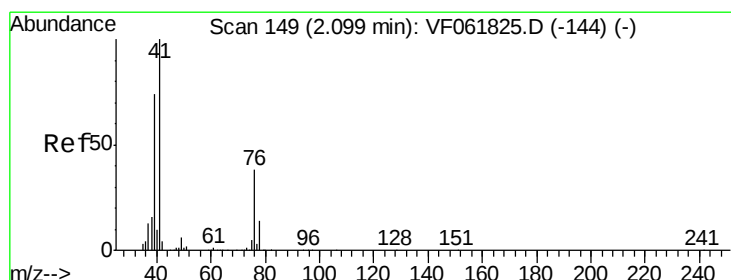
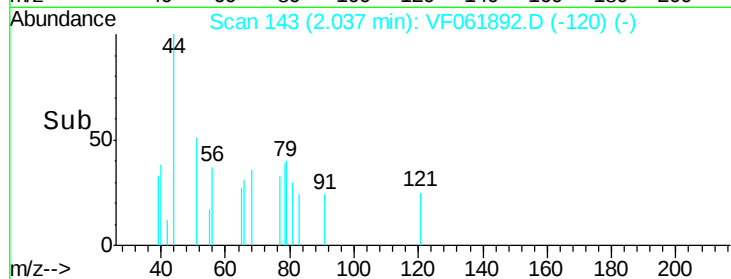
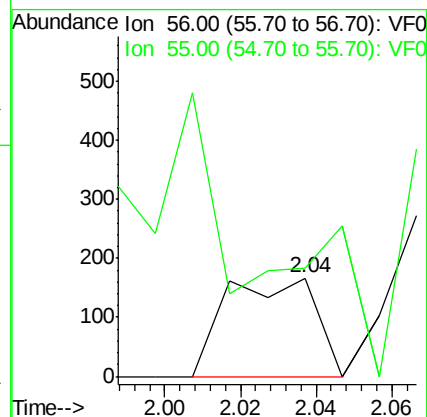
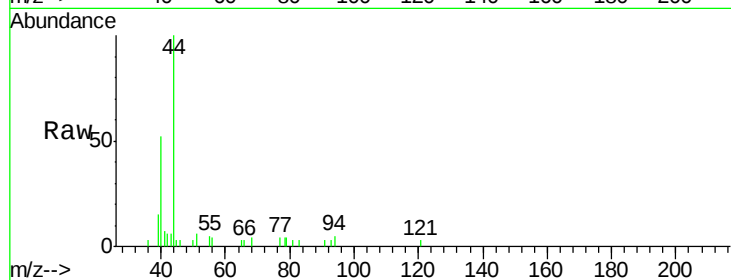
TP-28

Tot Ion: 56 Resp: 273

Ion Ratio Lower Upper

56 100

55 109.6 51.3 76.9#



#14

Allyl chloride

Concen: 11.645 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

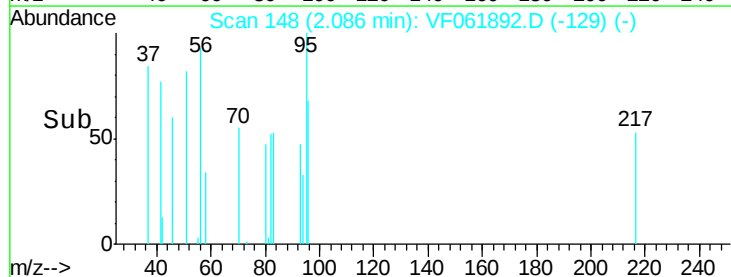
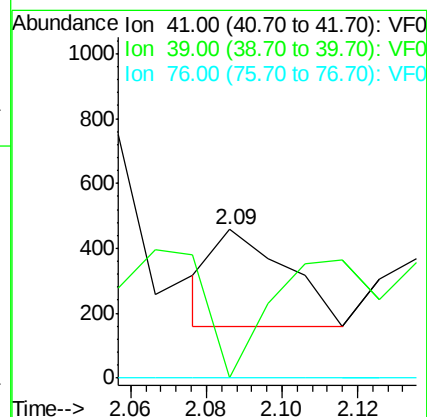
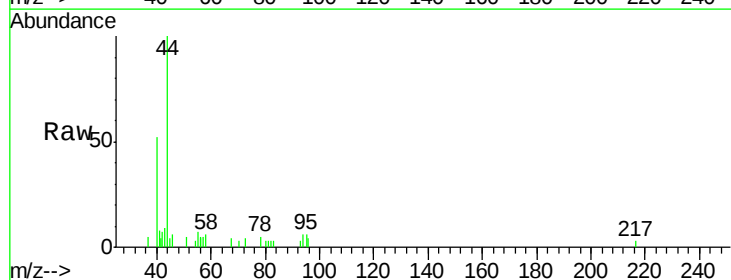
Tgt Ion: 41 Resp: 394

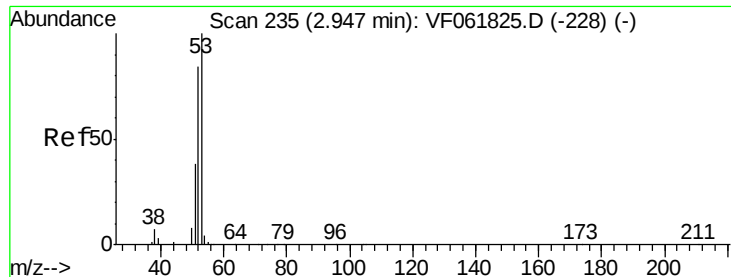
Ion Ratio Lower Upper

41 100

39 0.0 59.6 89.4#

76 0.0 32.3 48.5#





#15

Acrylonitrile

Concen: 45.912 ug/l

RT: 2.89 min Scan# 230

Delta R.T. -0.05 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

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ClientSampleId :

TP-28

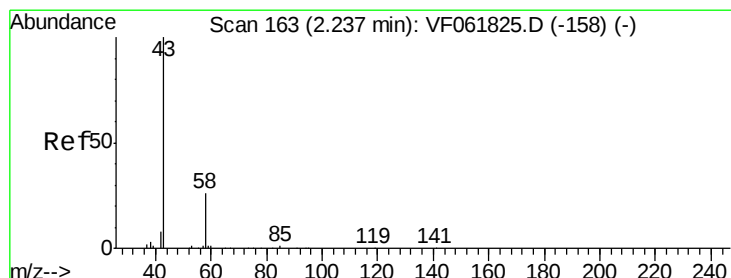
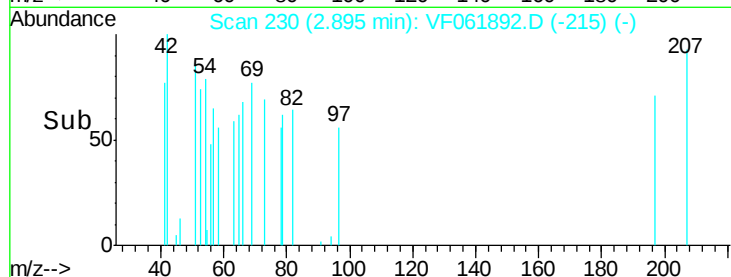
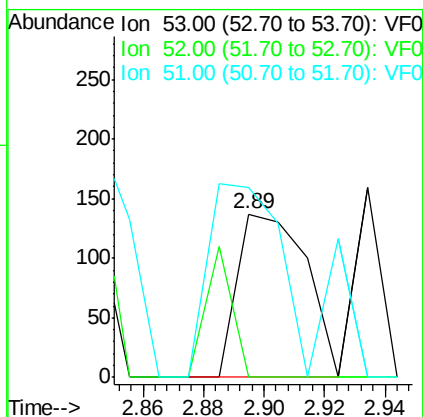
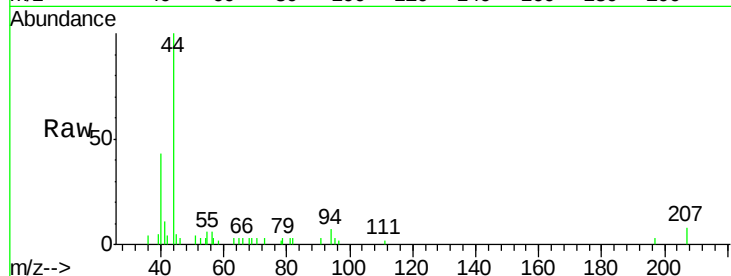
Tot Ion: 53 Resp: 217

Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 116.1 30.7 46.1#



#16

Acetone

Concen: 82.878 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.02 min

Lab File: VF061892.D

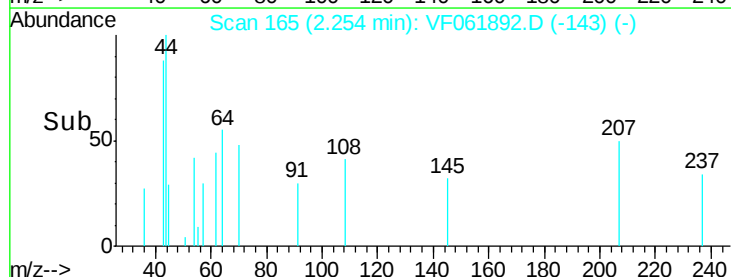
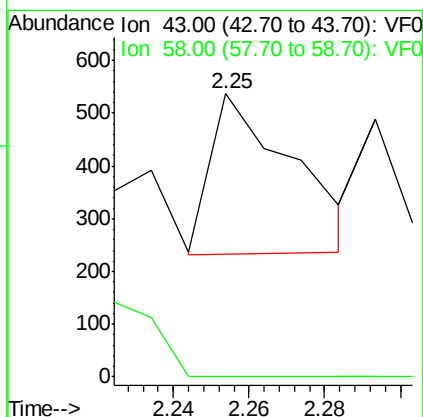
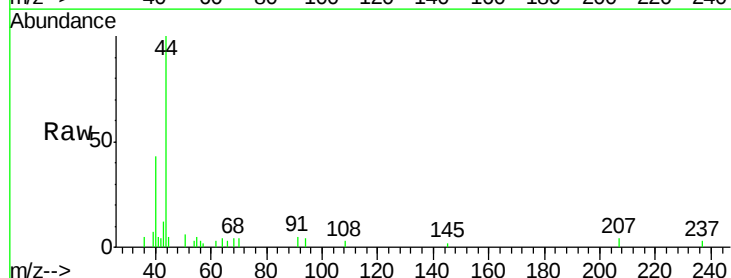
Acq: 11 Mar 2019 16:28

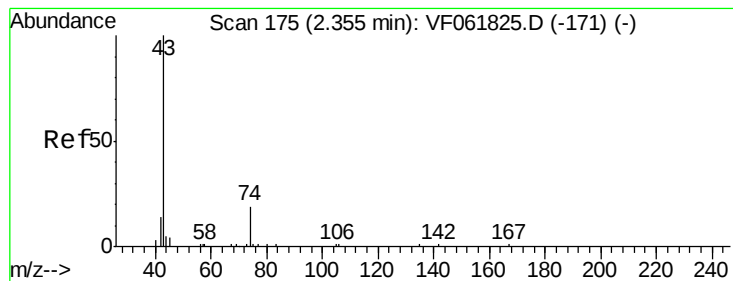
Tgt Ion: 43 Resp: 454

Ion Ratio Lower Upper

43 100

58 0.0 20.3 30.5#





#18

Methyl Acetate

Concen: 143.943 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

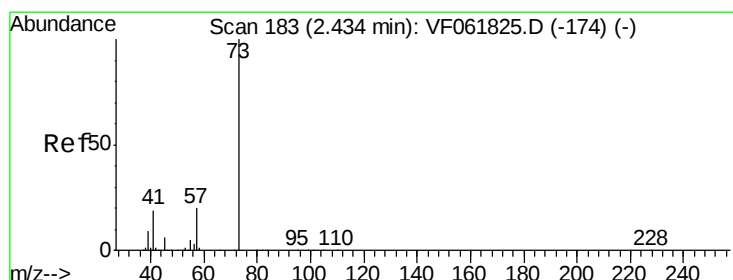
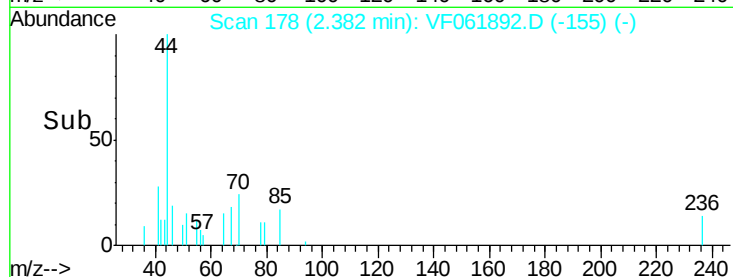
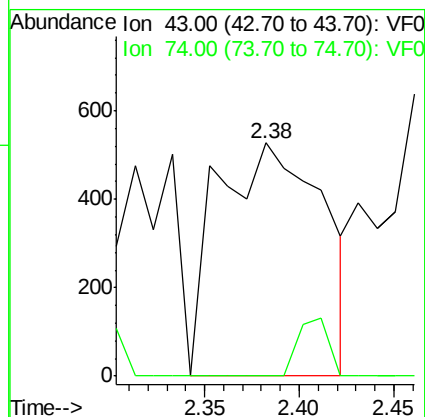
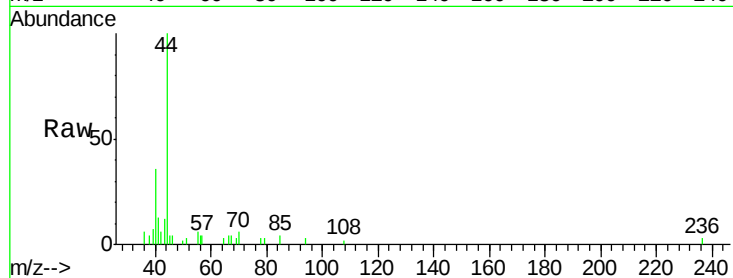
TP-28

Tot Ion: 43 Resp: 2060

Ion Ratio Lower Upper

43 100

74 0.0 13.2 19.8#



#19

Methyl tert-butyl Ether

Concen: 3.850 ug/l

RT: 2.45 min Scan# 185

Delta R.T. 0.02 min

Lab File: VF061892.D

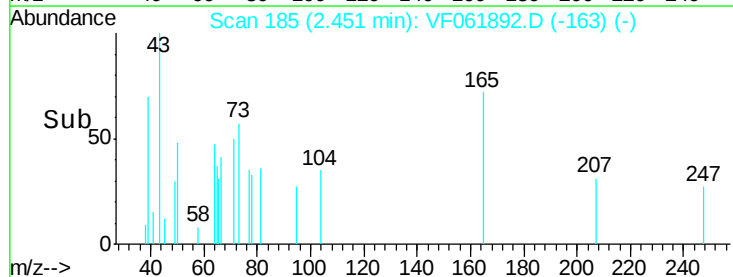
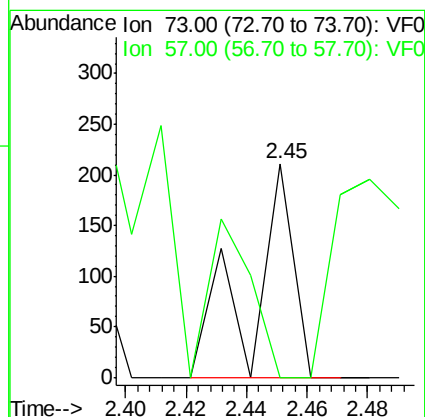
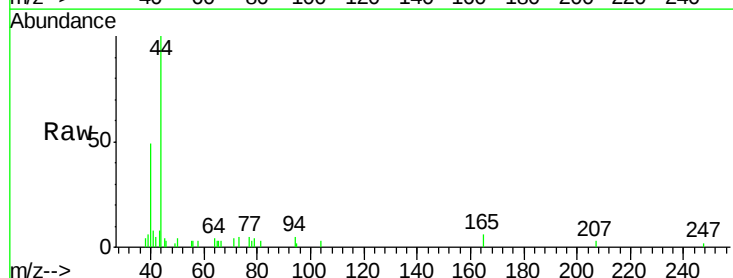
Acq: 11 Mar 2019 16:28

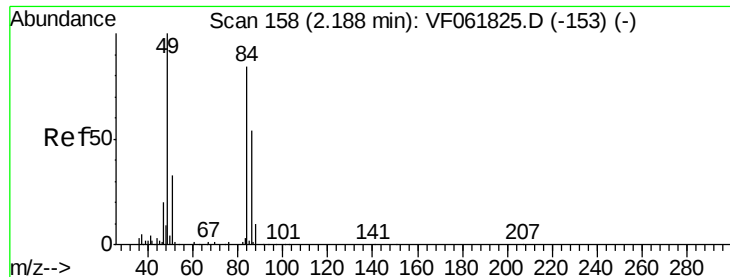
Tgt Ion: 73 Resp: 200

Ion Ratio Lower Upper

73 100

57 0.0 16.1 24.1#

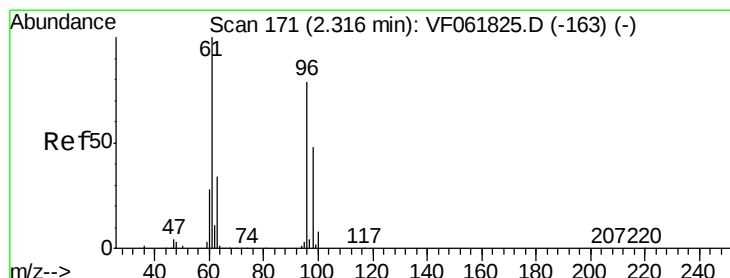
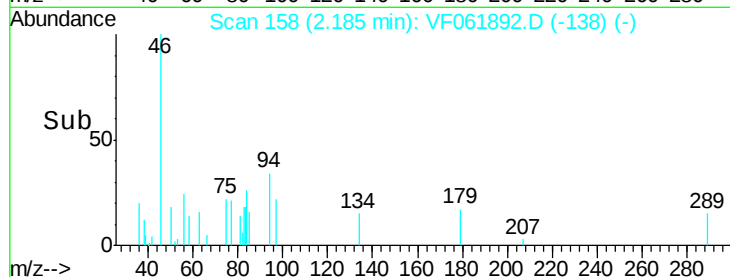
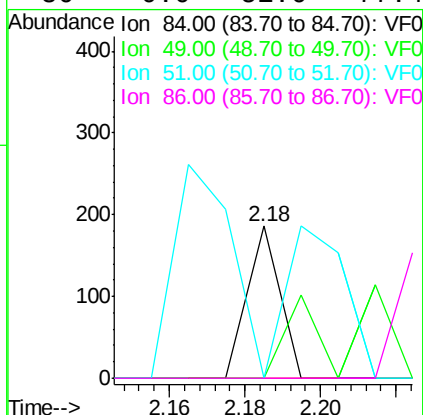
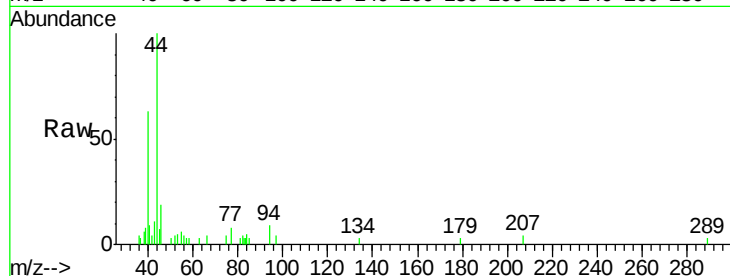




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

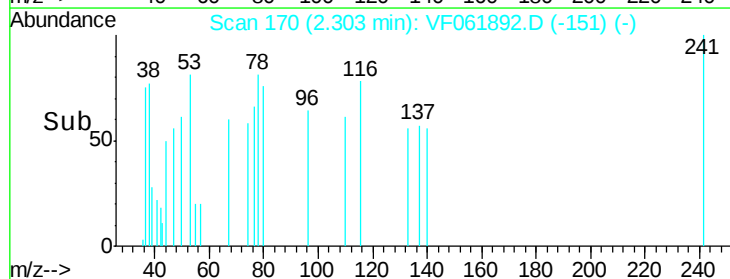
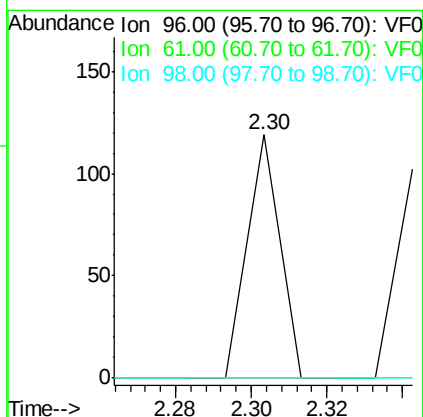
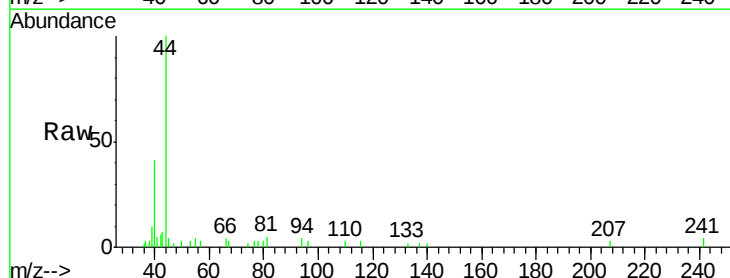
Instrument :
MSVOA_F
ClientSampleId :
TP-28

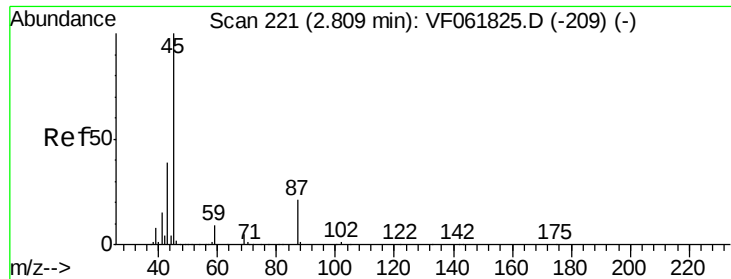
Tot Ion: 84 Resp: 110
Ion Ratio Lower Upper
84 100
49 0.0 96.8 145.2#
51 0.0 31.8 47.6#
86 0.0 51.6 77.4#



#21
trans-1,2-Dichloroethene
Concen: 2.422 ug/l
RT: 2.30 min Scan# 170
Delta R.T. -0.01 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

Tgt Ion: 96 Resp: 70
Ion Ratio Lower Upper
96 100
61 0.0 101.0 151.6#
98 0.0 48.8 73.2#

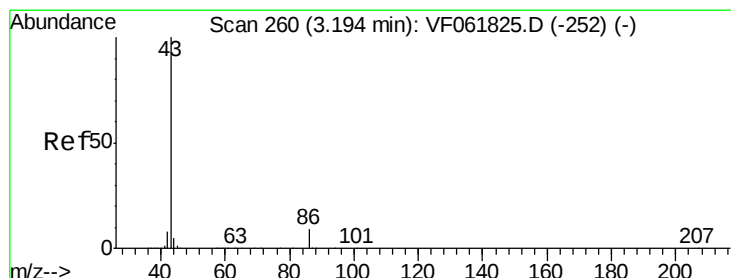
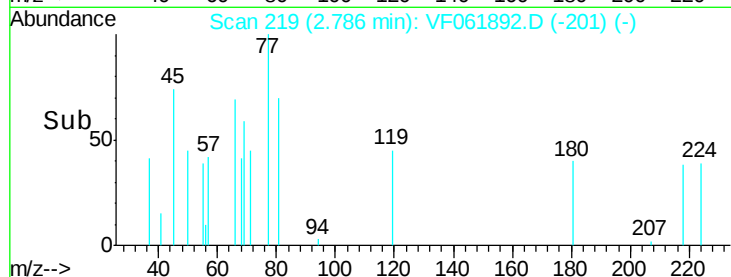
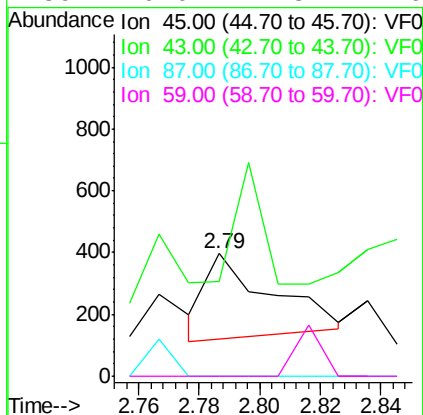
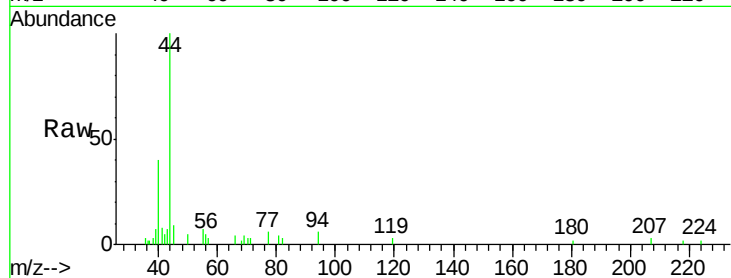




#22
Diisopropyl ether
Concen: 4.681 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.02 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

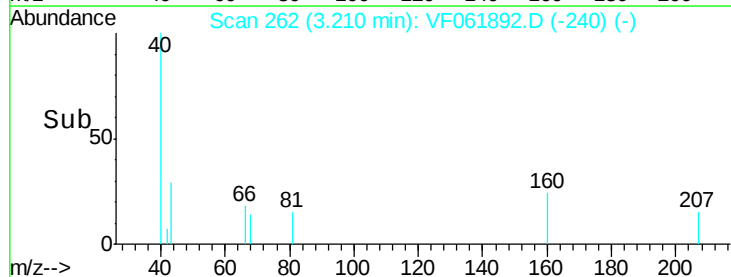
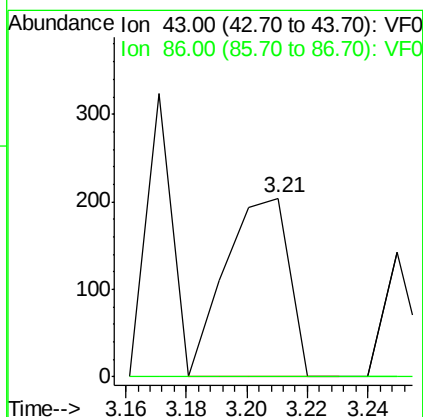
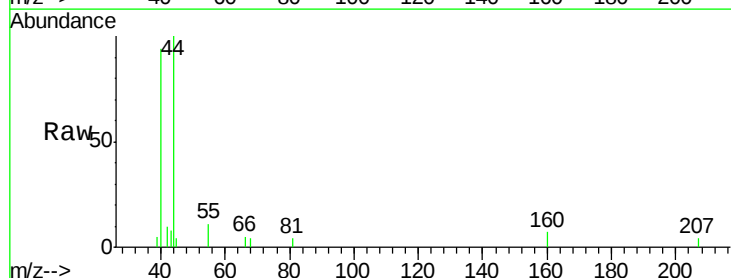
Instrument :
MSVOA_F
ClientSampleId :
TP-28

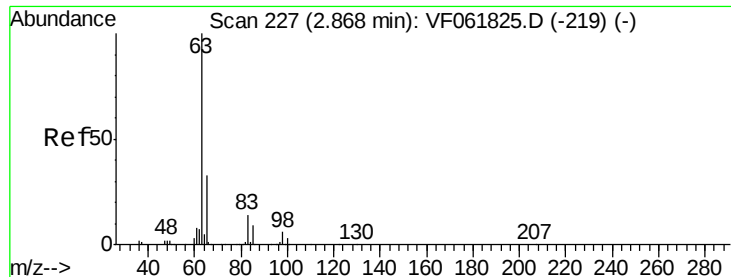
Tot Ion: 45 Resp: 412
Ion Ratio Lower Upper
45 100
43 77.5 31.8 47.8#
87 0.0 17.1 25.7#
59 0.0 7.8 11.6#



#23
Vinyl Acetate
Concen: 7.630 ug/l
RT: 3.21 min Scan# 262
Delta R.T. 0.02 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

Tgt Ion: 43 Resp: 300
Ion Ratio Lower Upper
43 100
86 0.0 7.0 10.4#





#24

1,1-Dichloroethane

Concen: 3.403 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

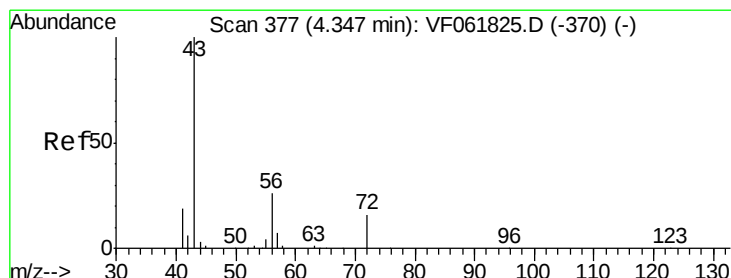
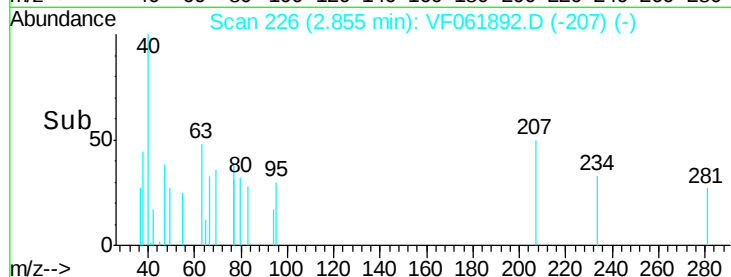
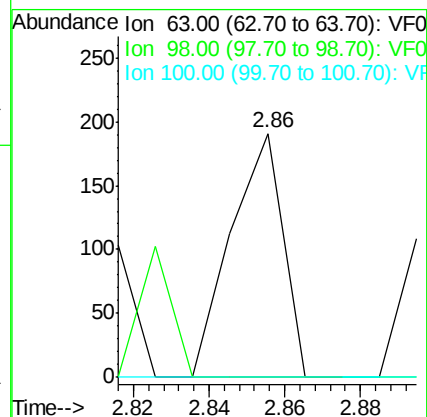
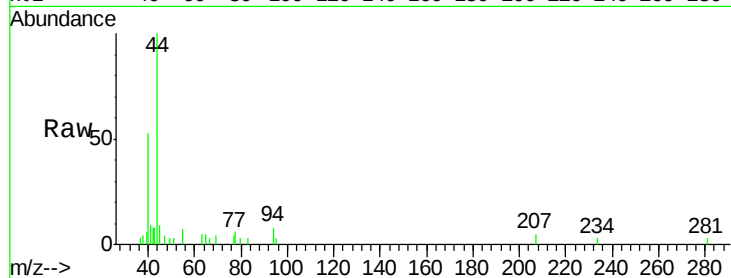
Tot Ion: 63 Resp: 179

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

100 0.0 1.8 5.3#



#25

2-Butanone

Concen: 14.359 ug/l

RT: 4.36 min Scan# 379

Delta R.T. 0.02 min

Lab File: VF061892.D

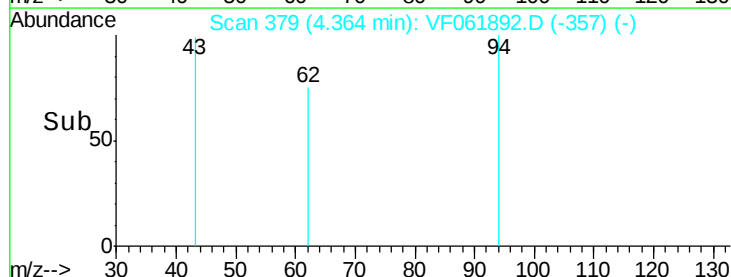
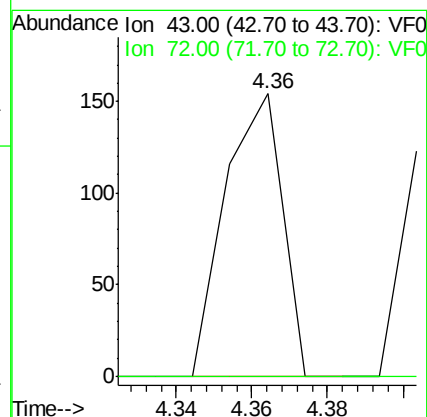
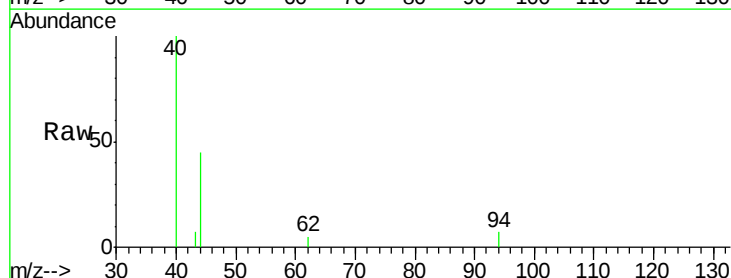
Acq: 11 Mar 2019 16:28

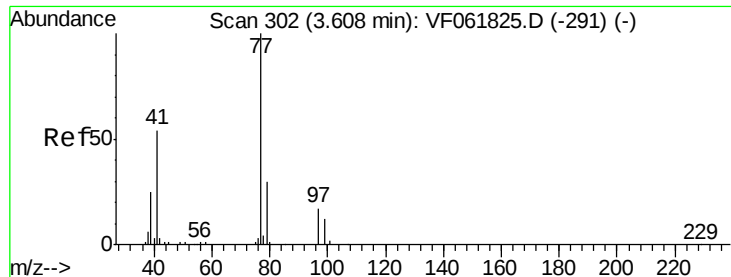
Tgt Ion: 43 Resp: 160

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#





#26

2,2-Dichloropropane

Concen: 2.683 ug/l

RT: 3.59 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

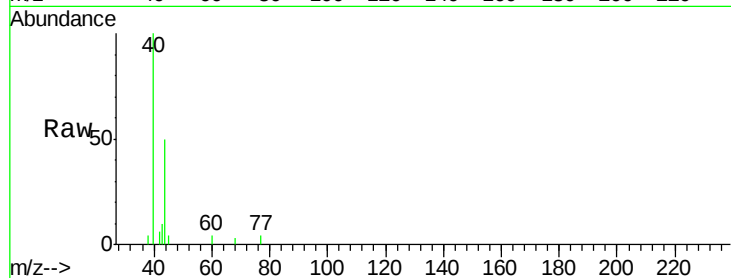
TP-28

Tot Ion: 77 Resp: 63

Ion Ratio Lower Upper

77 100

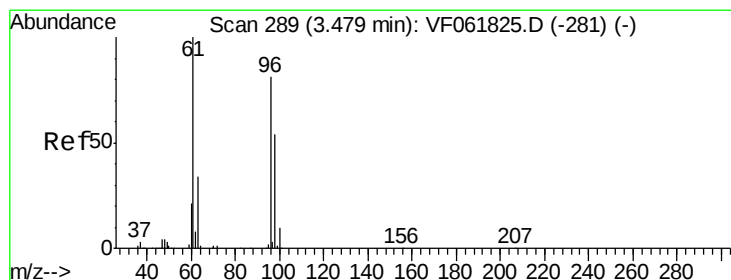
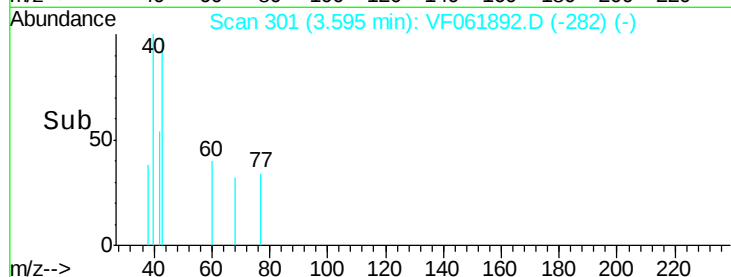
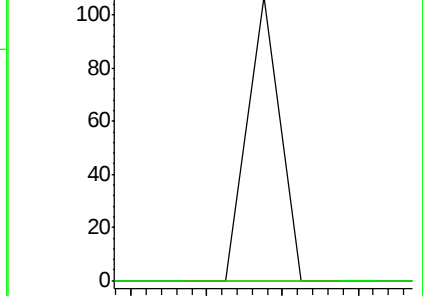
97 0.0 10.4 31.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.59



#27

cis-1,2-Dichloroethene

Concen: 1.523 ug/l

RT: 3.47 min Scan# 288

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

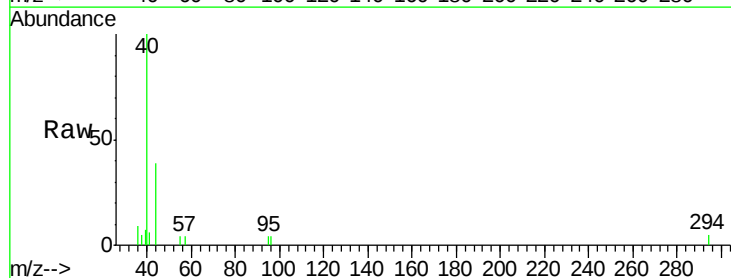
Tgt Ion: 96 Resp: 61

Ion Ratio Lower Upper

96 100

61 0.0 0.0 245.8

98 0.0 0.0 132.6

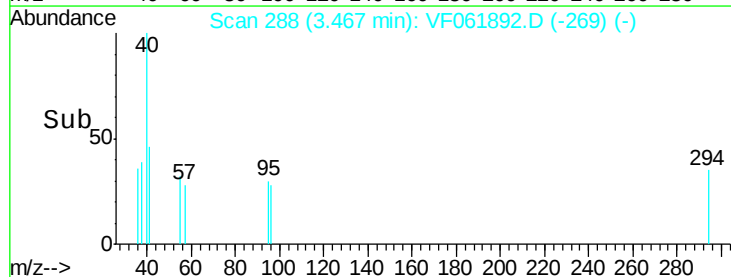
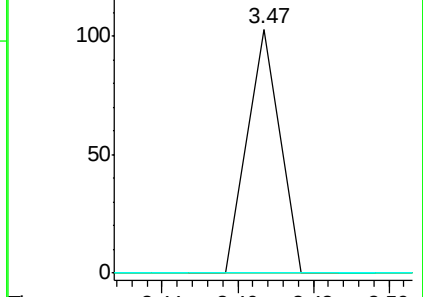


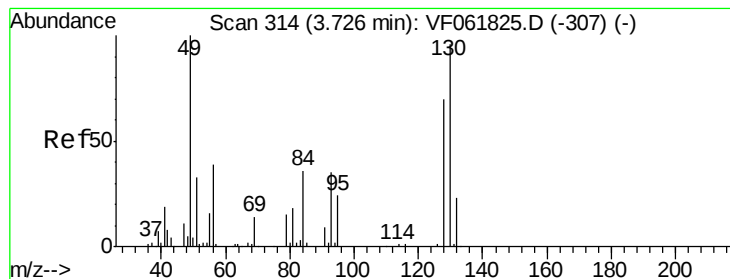
Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

3.47





#28

Bromochloromethane

Concen: 3.009 ug/l

RT: 3.86 min Scan# 328

Delta R.T. 0.14 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

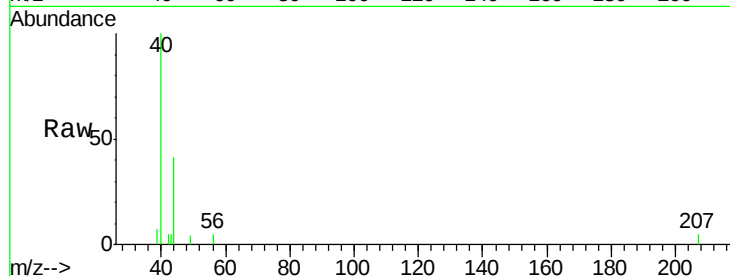
Tot Ion: 49 Resp: 69

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

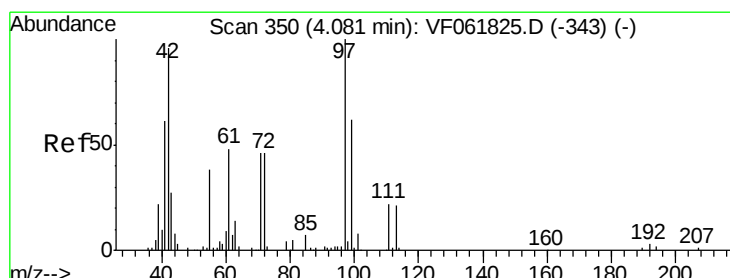
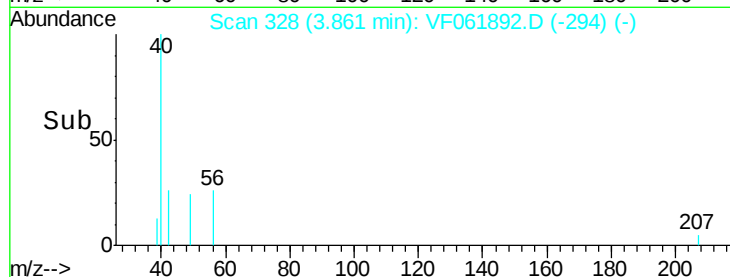
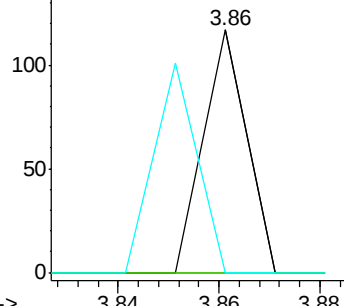
130 0.0 76.9 115.3#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: 17.064 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

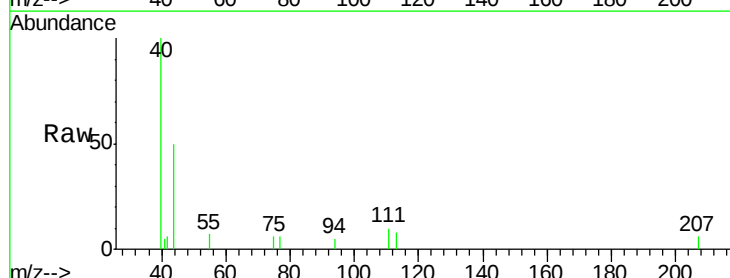
Tgt Ion: 42 Resp: 82

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

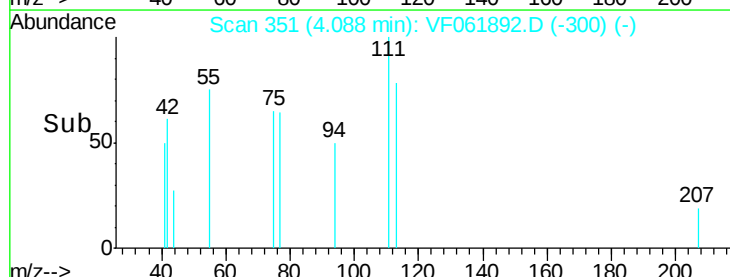
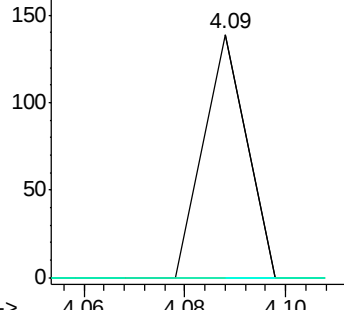
71 0.0 34.6 52.0#

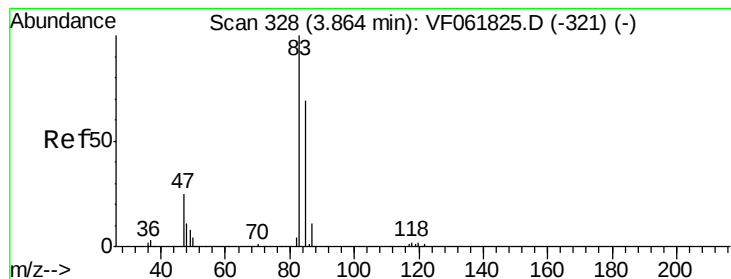


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#30

Chloroform

Concen: 1.115 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

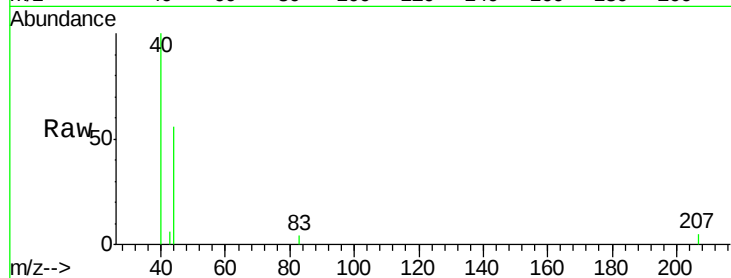
TP-28

Tot Ion: 83 Resp: 67

Ion Ratio Lower Upper

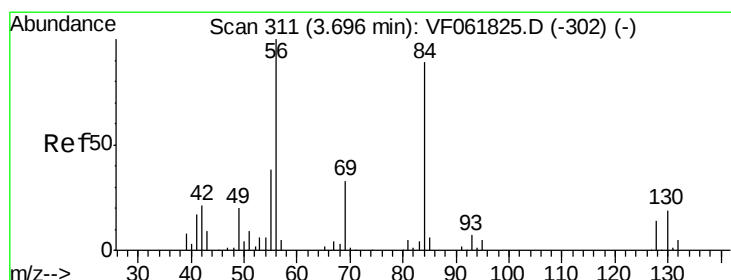
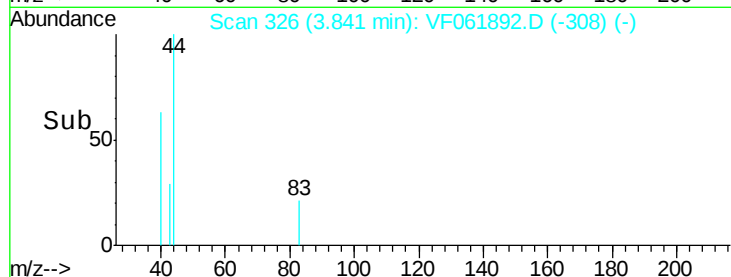
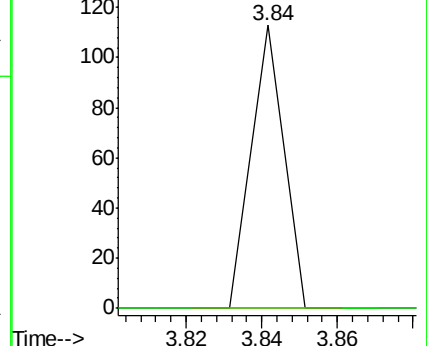
83 100

85 0.0 55.3 82.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#31

Cyclohexane

Concen: 1.198 ug/l

RT: 3.67 min Scan# 309

Delta R.T. -0.02 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

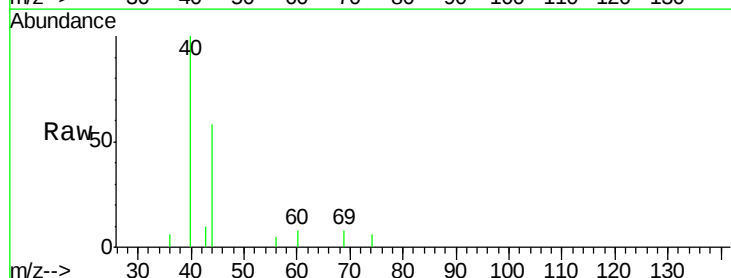
Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

69 153.2 26.0 39.0#

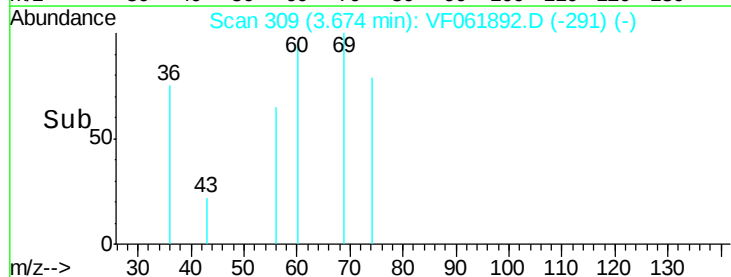
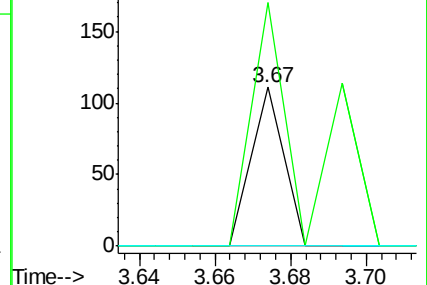
84 0.0 71.0 106.6#

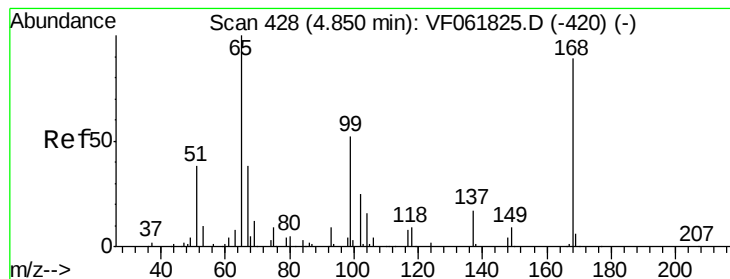


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 16.825 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

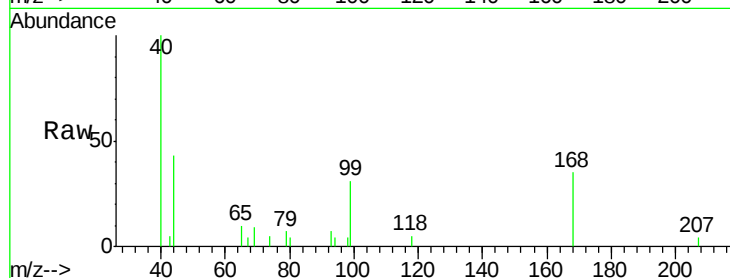
TP-28

Tot Ion: 65 Resp: 440

Ion Ratio Lower Upper

65 100

67 43.0 0.0 108.6

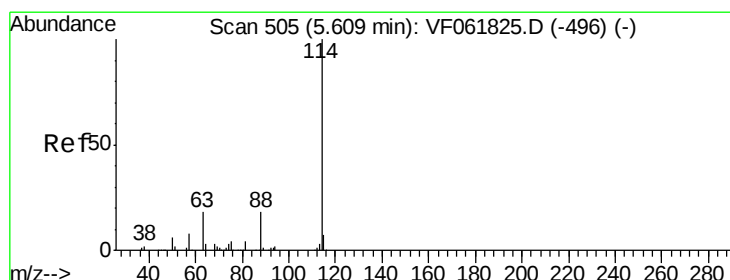
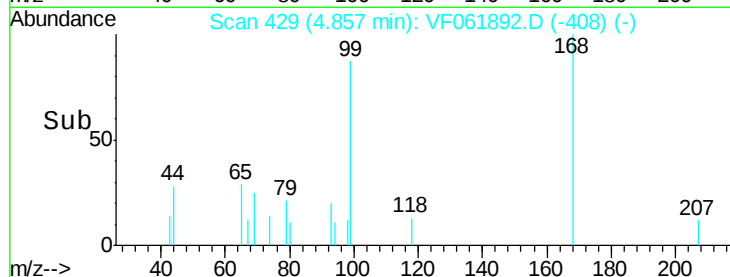


Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

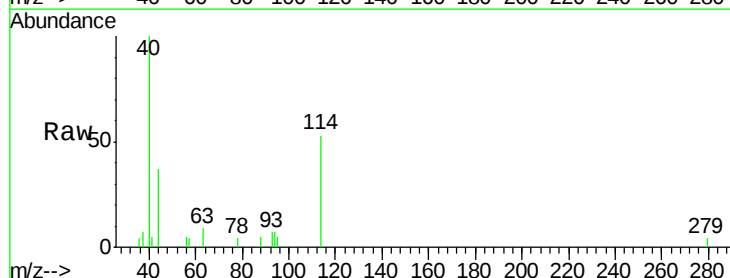
Tgt Ion: 114 Resp: 4248

Ion Ratio Lower Upper

114 100

63 16.4 0.0 35.6

88 9.4 0.0 35.6



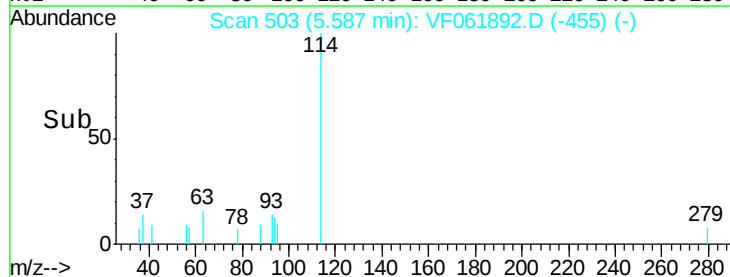
Abundance Ion 114.00 (113.70 to 114.70): V

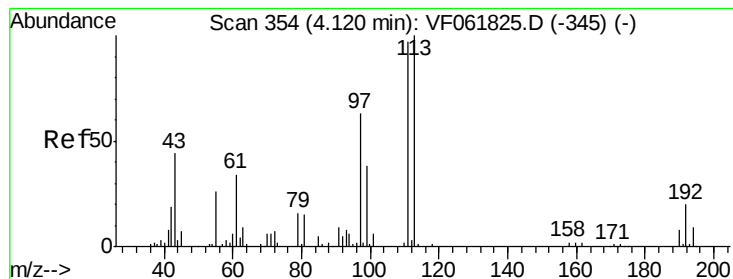
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.59

Time-->





#35

Dibromofluoromethane

Concen: 36.633 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

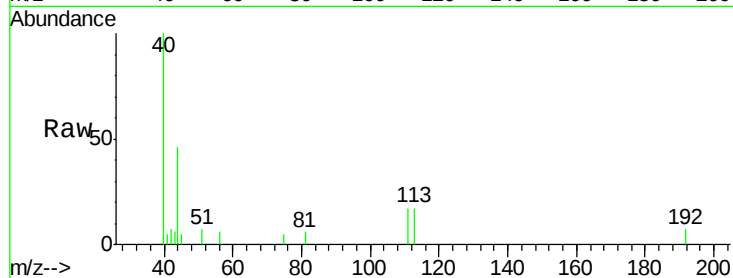
Tot Ion:113 Resp: 1086

Ion Ratio Lower Upper

113 100

111 102.1 77.6 116.4

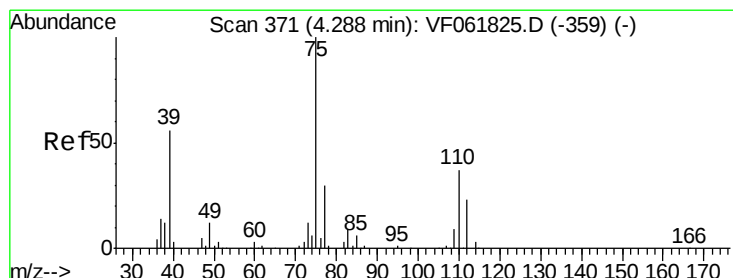
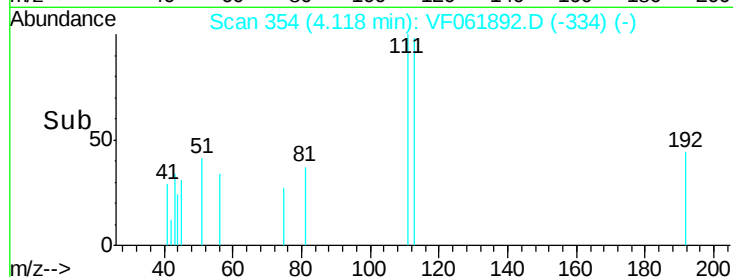
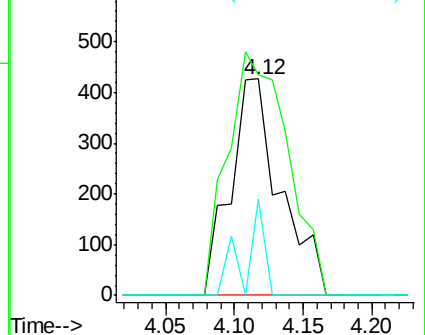
192 44.5 15.9 23.9#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 1.595 ug/l

RT: 4.25 min Scan# 367

Delta R.T. -0.04 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

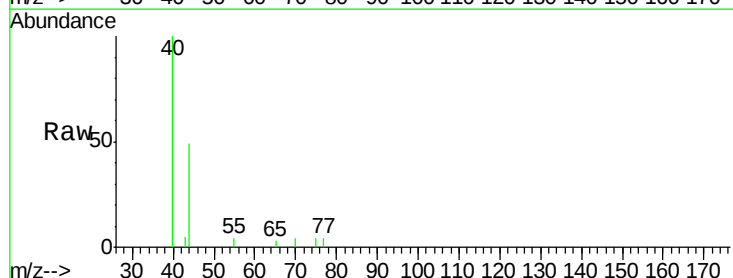
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.6#

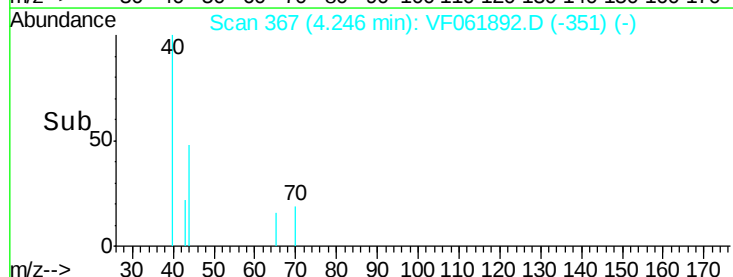
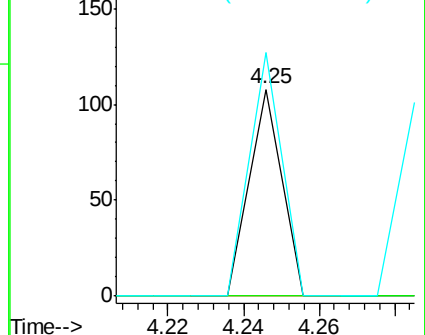
77 117.6 24.2 36.2#

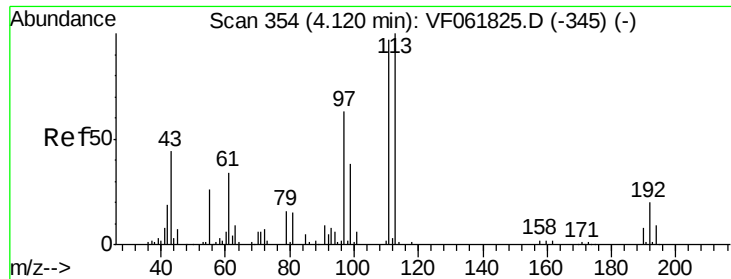


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

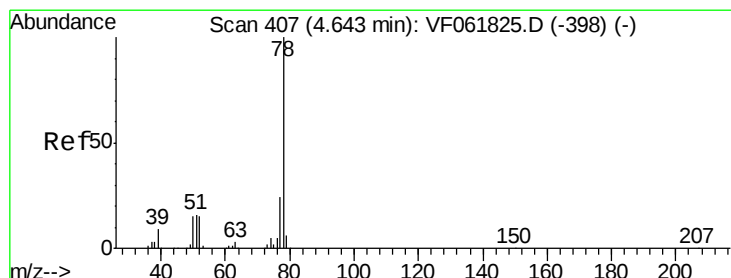
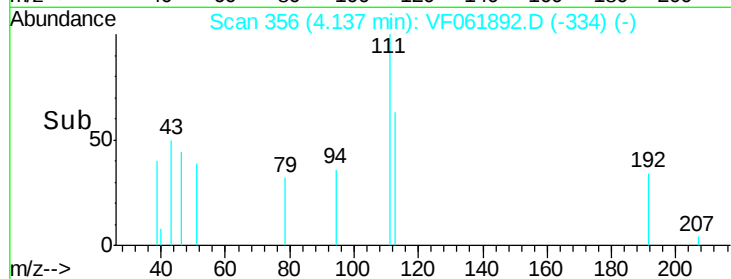
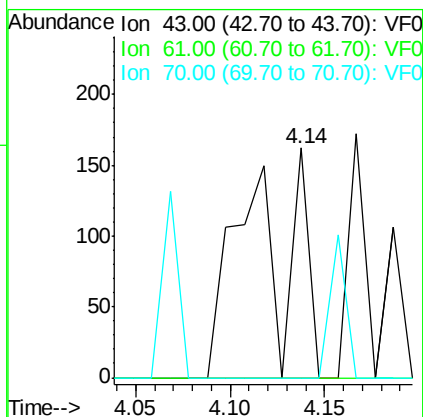
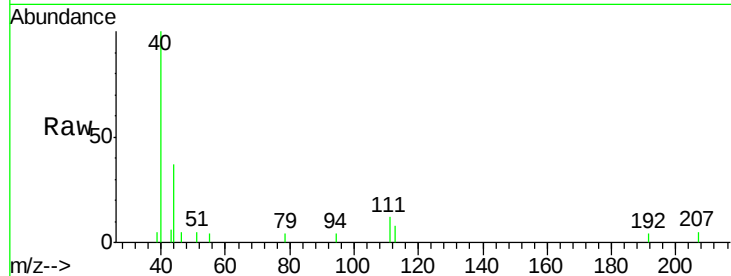




#37
Ethyl Acetate
Concen: 18.465 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.02 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

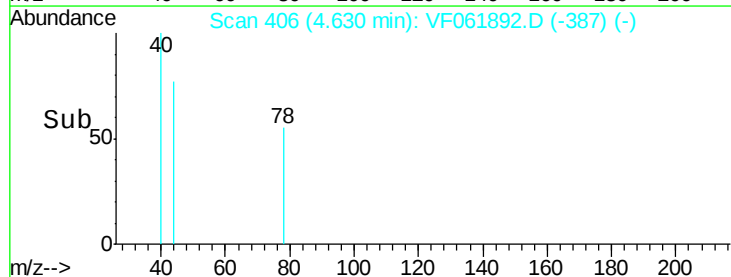
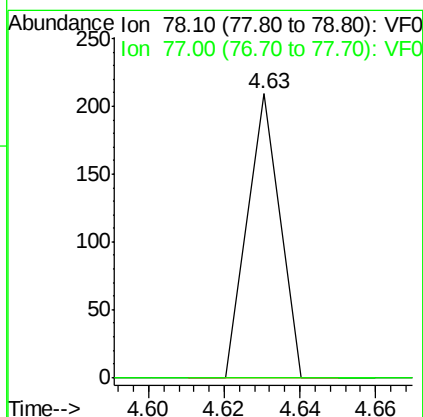
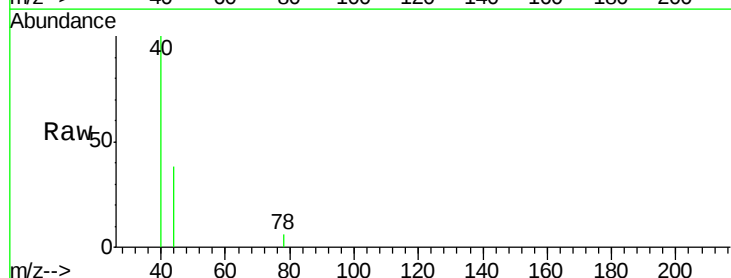
Instrument :
MSVOA_F
ClientSampled :
TP-28

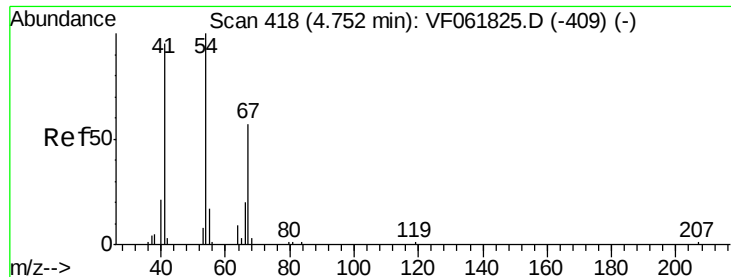
Tot Ion: 43 Resp: 311
Ion Ratio Lower Upper
43 100
61 0.0 60.7 91.1#
70 0.0 10.6 15.8#



#40
Benzene
Concen: 1.182 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061892.D
Acq: 11 Mar 2019 16:28

Tgt Ion: 78 Resp: 124
Ion Ratio Lower Upper
78 100
77 0.0 19.5 29.3#





#41

Methacrylonitrile

Concen: 37.712 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.03 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

Tot Ion: 41 Resp: 348

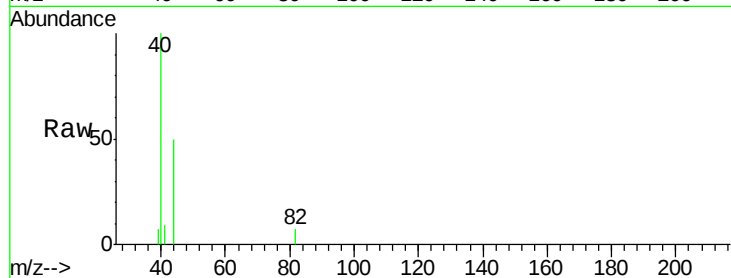
Ion Ratio Lower Upper

41 100

39 79.6 43.0 64.6#

67 0.0 47.8 71.8#

52 0.0 40.5 60.7#

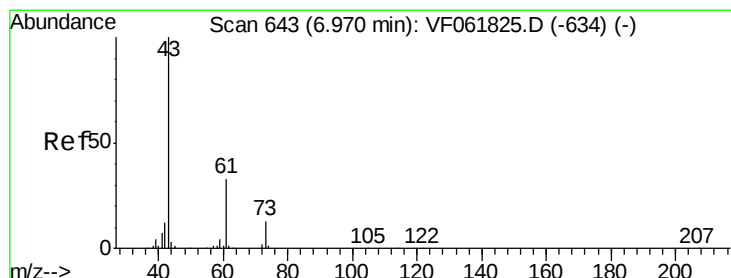
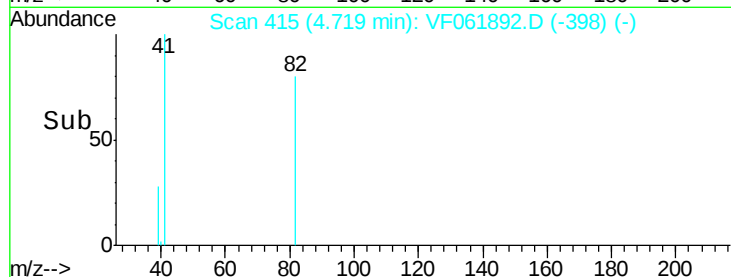
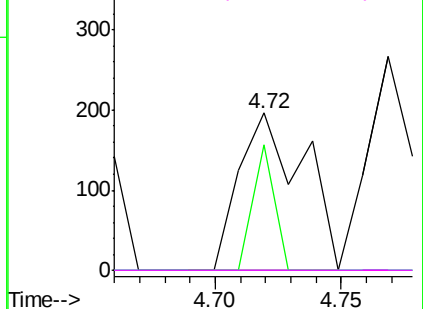


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 6.743 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

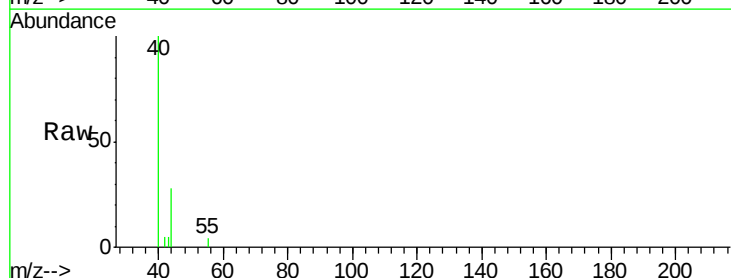
Tgt Ion: 43 Resp: 140

Ion Ratio Lower Upper

43 100

61 0.0 26.1 39.1#

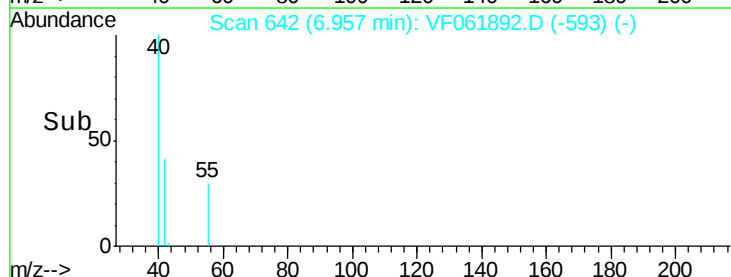
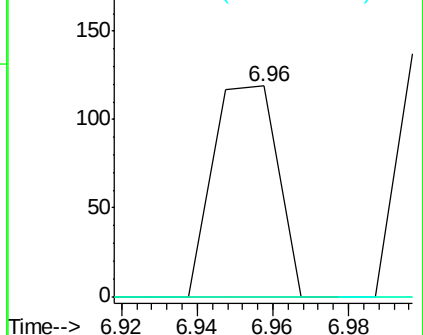
87 0.0 0.0 0.0

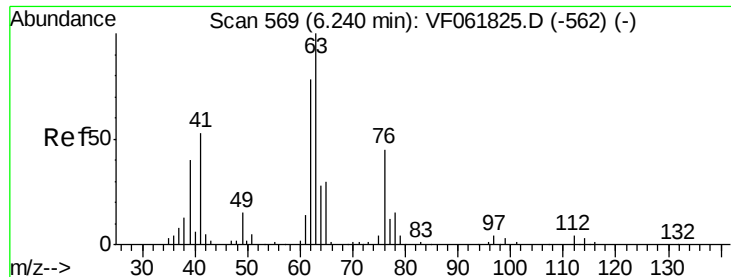


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 3.127 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.02 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

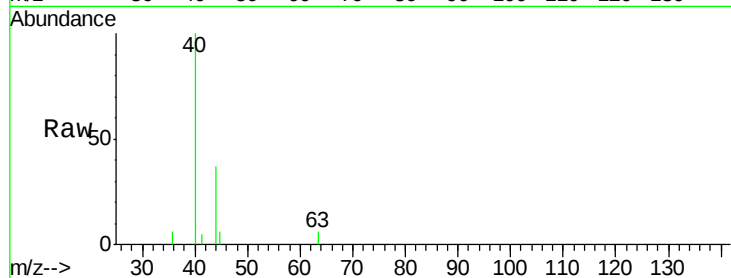
TP-28

Tot Ion: 63 Resp: 78

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.22

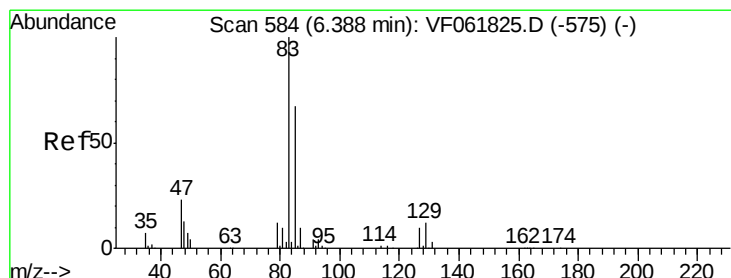
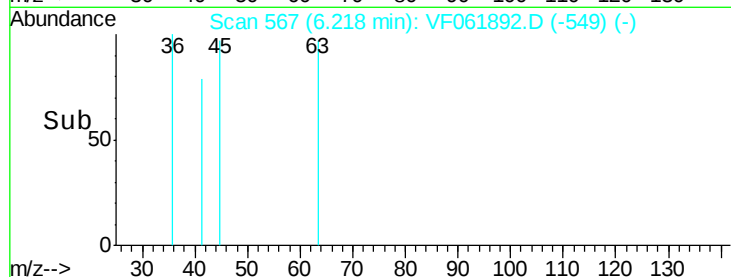
150

100

50

0

Time--> 6.18 6.20 6.22 6.24



#47

Bromodichloromethane

Concen: 1.932 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.14 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

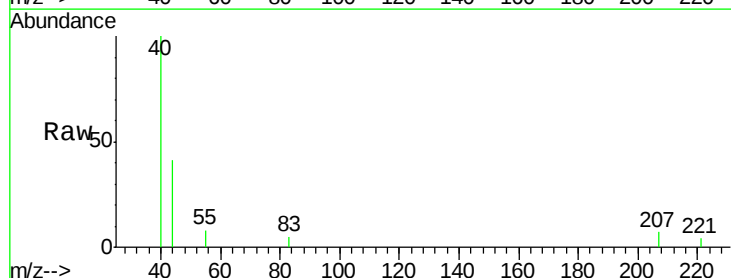
Tgt Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

85 0.0 53.6 80.4#

127 0.0 8.1 12.1#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

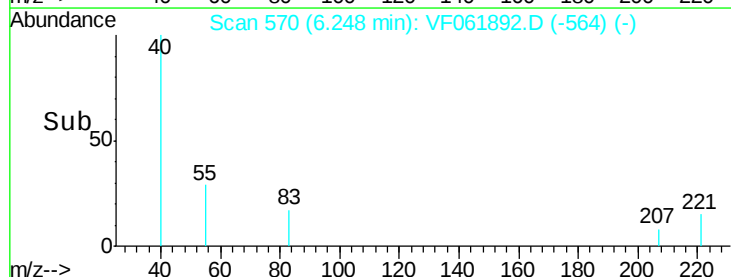
150

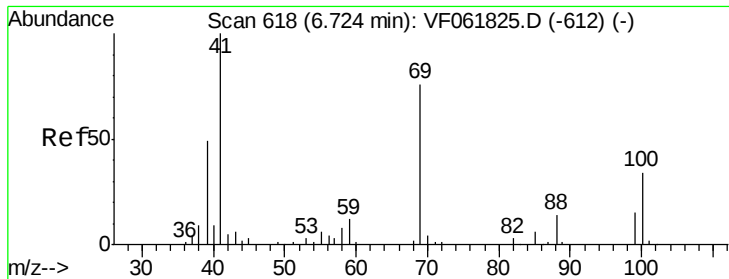
100

50

0

Time--> 6.22 6.24 6.26 6.28





#48

Methyl methacrylate

Concen: 9.513 ug/l

RT: 6.66 min Scan# 612

Delta R.T. -0.06 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

TP-28

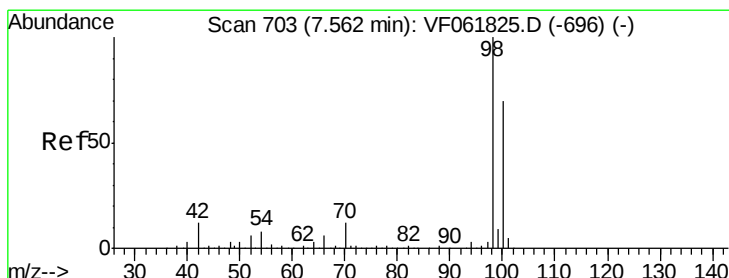
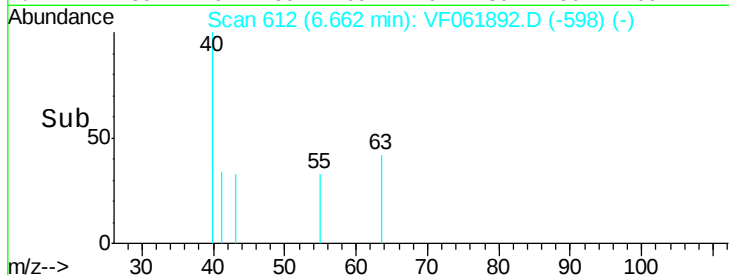
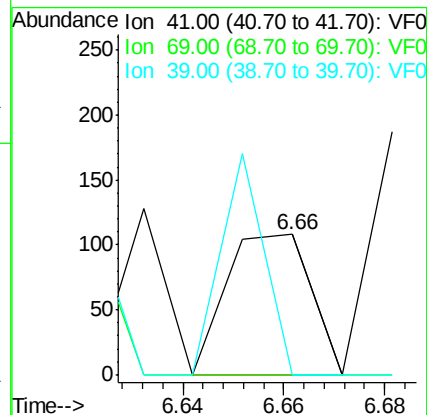
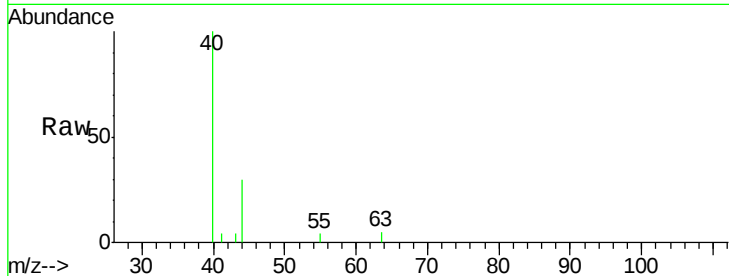
Tot Ion: 41 Resp: 125

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

39 0.0 39.7 59.5#



#50

Toluene-d8

Concen: 51.217 ug/l

RT: 7.56 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF061892.D

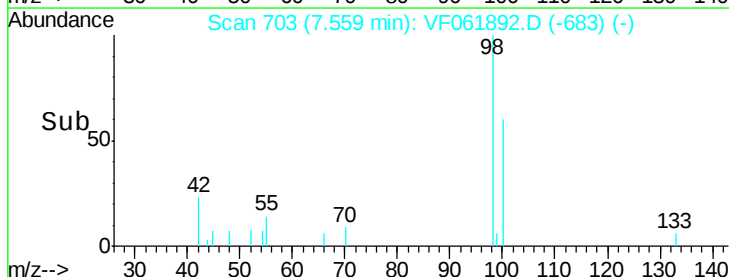
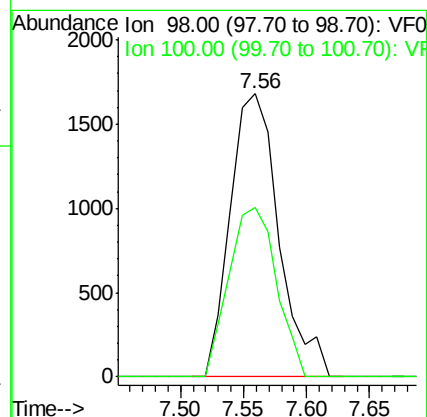
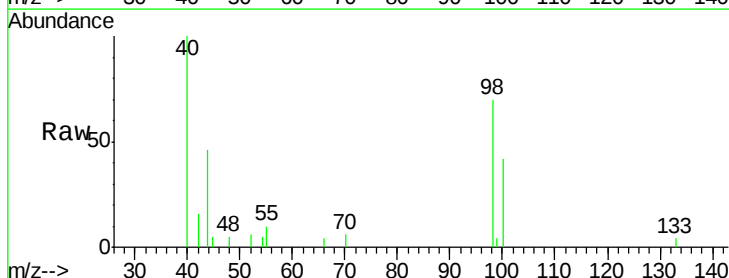
Acq: 11 Mar 2019 16:28

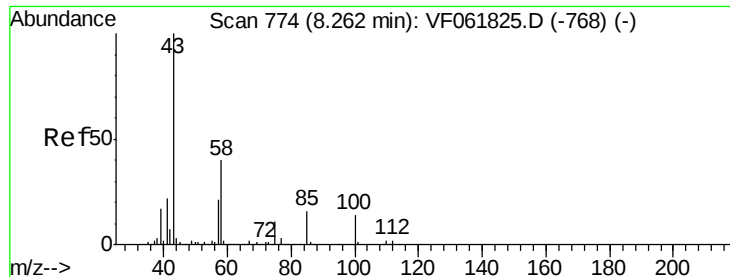
Tgt Ion: 98 Resp: 4513

Ion Ratio Lower Upper

98 100

100 59.9 56.0 84.0





#51

4-Methyl-2-Pentanone

Concen: 5.506 ug/l

RT: 8.21 min Scan# 769

Delta R.T. -0.05 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

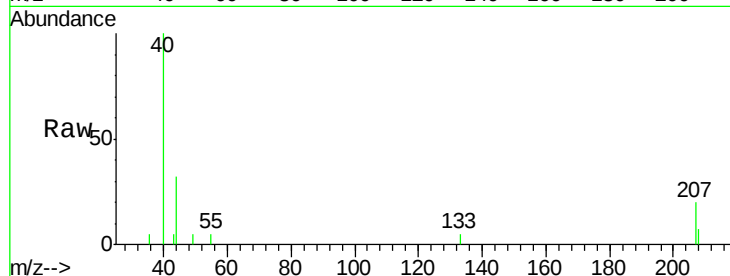
TP-28

Tot Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.21

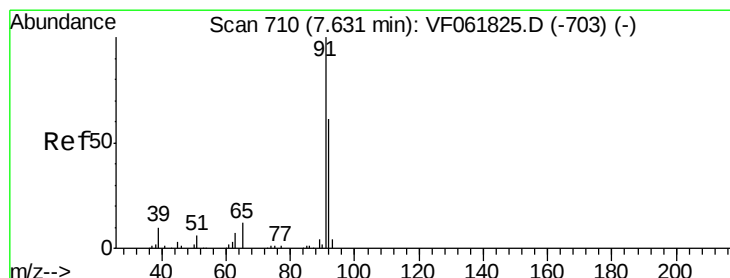
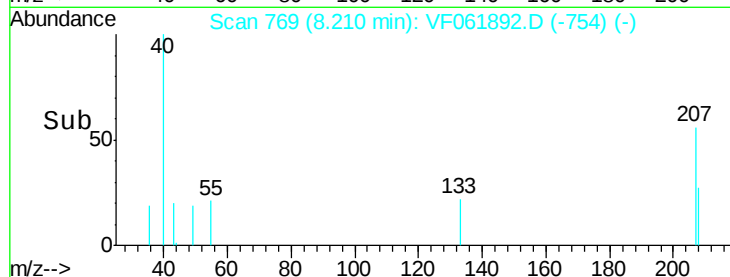
150

100

50

0

Time-->



#52

Toluene

Concen: 1.080 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061892.D

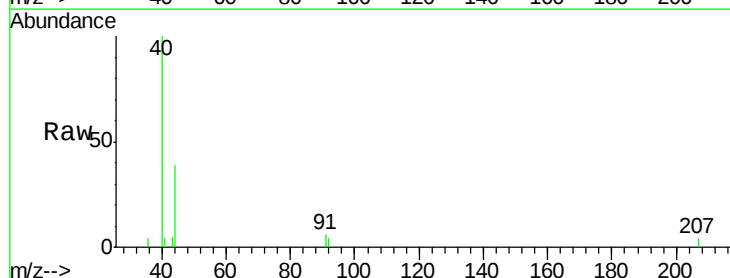
Acq: 11 Mar 2019 16:28

Tgt Ion: 92 Resp: 67

Ion Ratio Lower Upper

92 100

91 148.2 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200

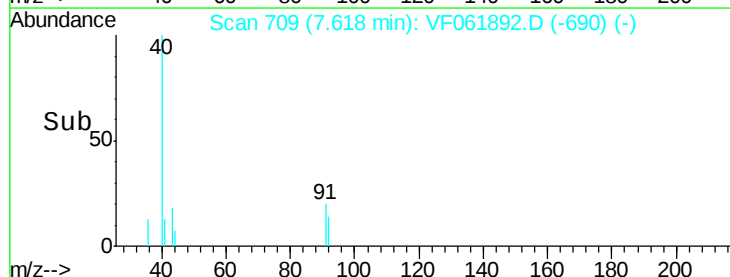
150

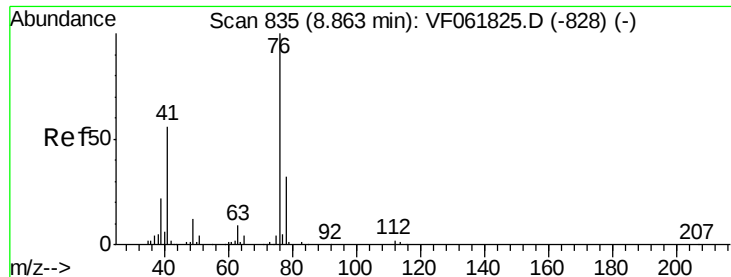
100

50

0

Time-->





#57

1,3-Dichloropropane

Concen: 2.634 ug/l

RT: 8.96 min Scan# 845

Delta R.T. 0.10 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

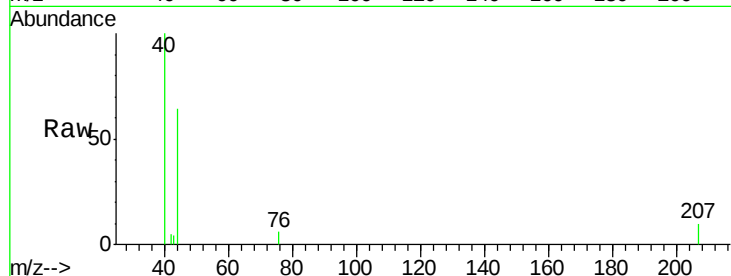
TP-28

Tot Ion: 76 Resp: 77

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.96

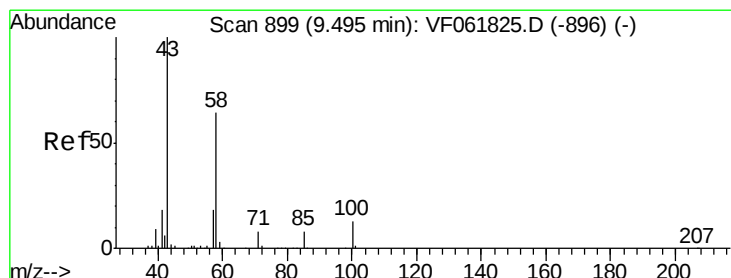
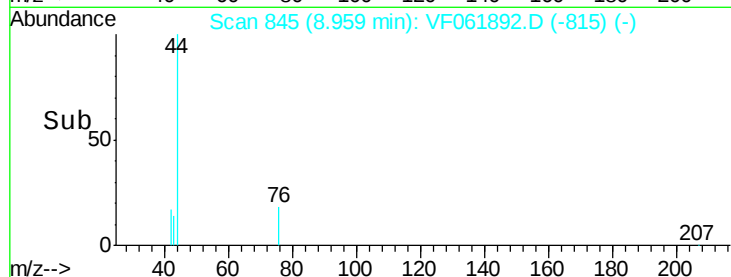
150

100

50

0

Time--> 8.92 8.94 8.96 8.98



#59

2-Hexanone

Concen: 14.297 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.00 min

Lab File: VF061892.D

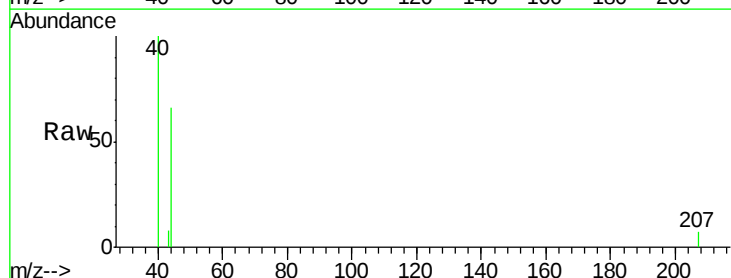
Acq: 11 Mar 2019 16:28

Tgt Ion: 43 Resp: 148

Ion Ratio Lower Upper

43 100

58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

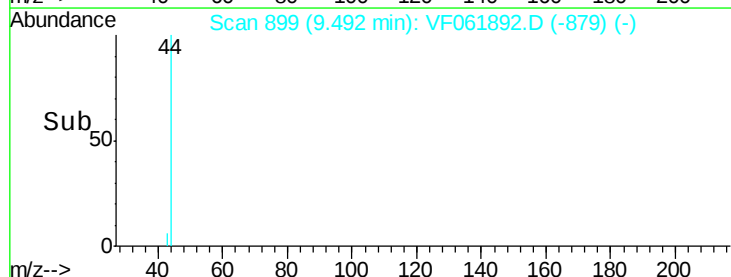
150

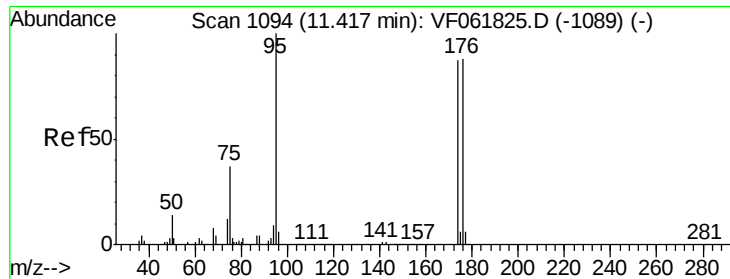
100

50

0

Time--> 9.44 9.46 9.48 9.50 9.52





#62

4-Bromofluorobenzene

Concen: 33.346 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

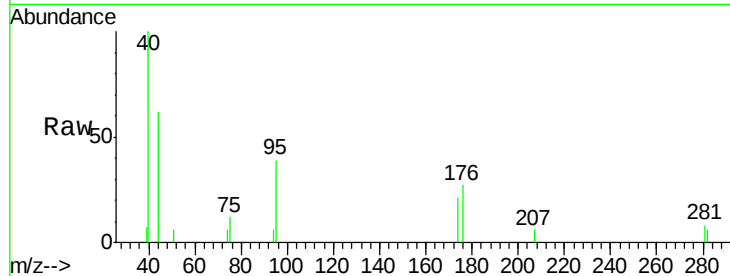
Tot Ion: 95 Resp: 1151

Ion Ratio Lower Upper

95 100

174 53.4 0.0 174.0

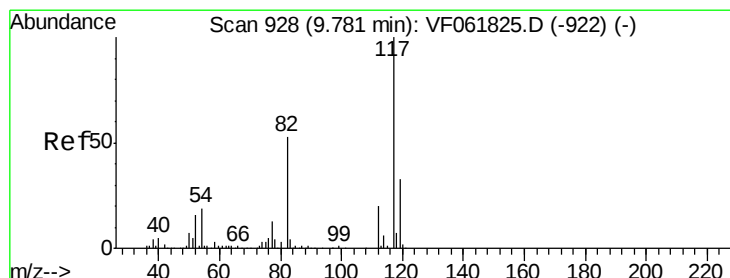
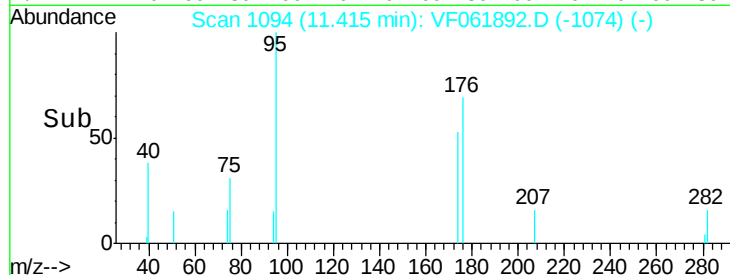
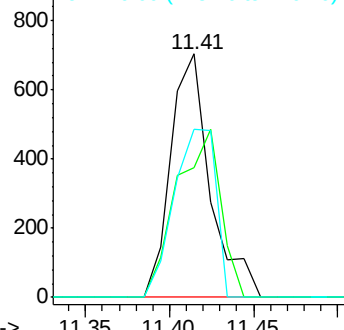
176 69.0 0.0 175.2



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: 9.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

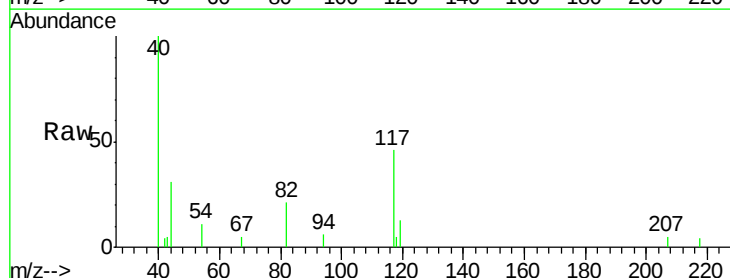
Tgt Ion: 117 Resp: 2633

Ion Ratio Lower Upper

117 100

82 45.6 42.6 63.8

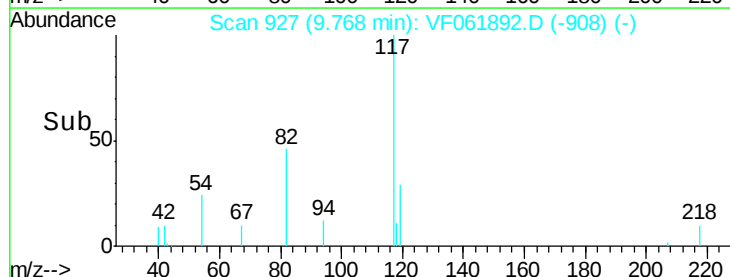
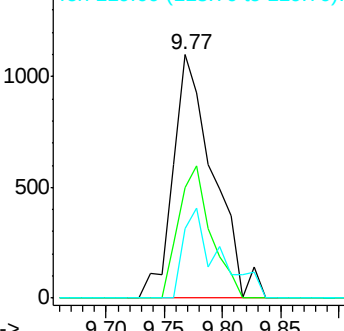
119 28.7 26.0 39.0

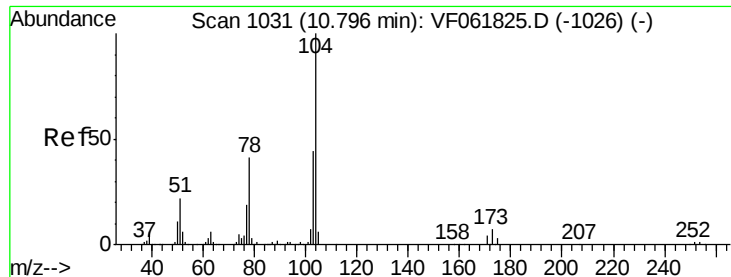


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#70

Stvrene

Concen: 1.705 ug/l

RT: 10.67 min Scan# 1019

Delta R.T. -0.12 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

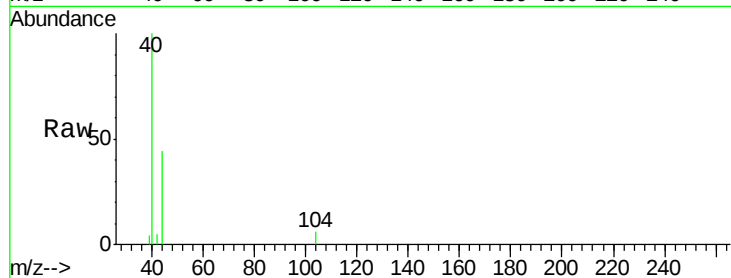
Tot Ion:104 Resp: 83

Ion Ratio Lower Upper

104 100

78 0.0 33.3 49.9#

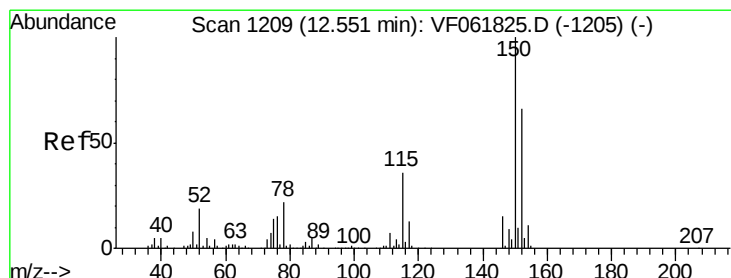
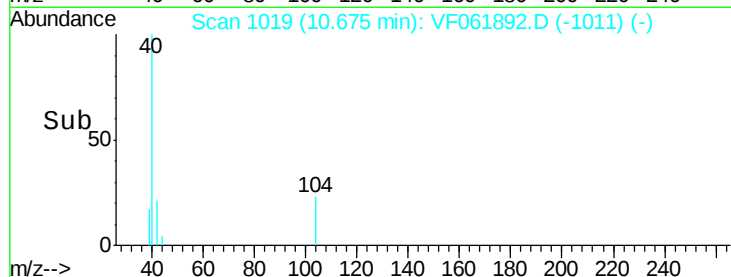
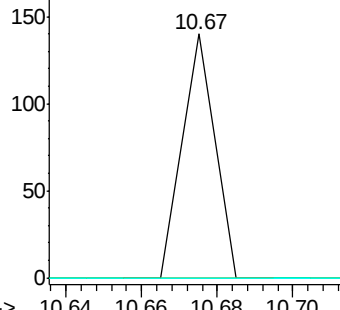
103 0.0 35.4 53.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

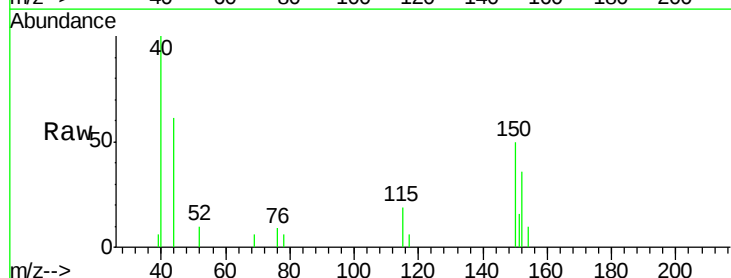
Tgt Ion:152 Resp: 841

Ion Ratio Lower Upper

152 100

115 52.5 27.7 83.1

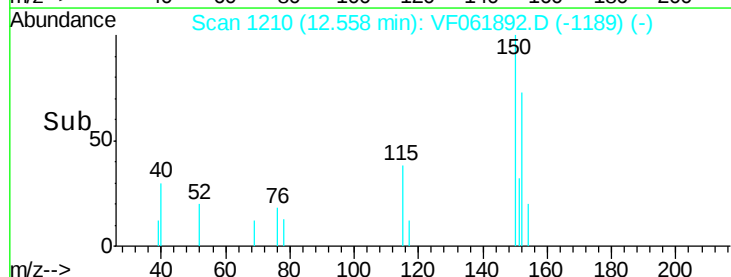
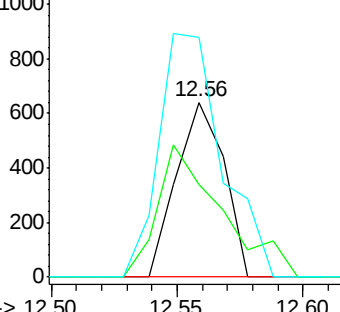
150 136.8 0.0 304.2

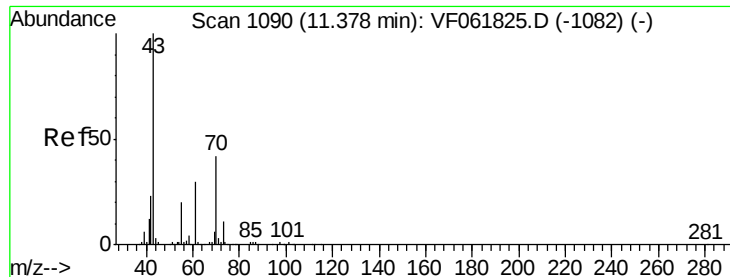


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 16.130 ug/l

RT: 11.38 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

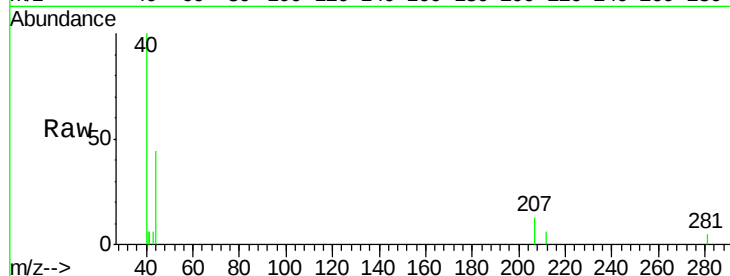
MSVOA_F

ClientSampled :

TP-28

Tot Ion: 43 Resp: 215

Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.0#
55	0.0	16.3	24.5#
61	0.0	24.0	36.0#

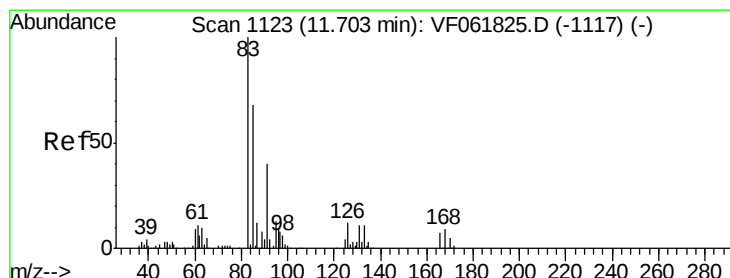
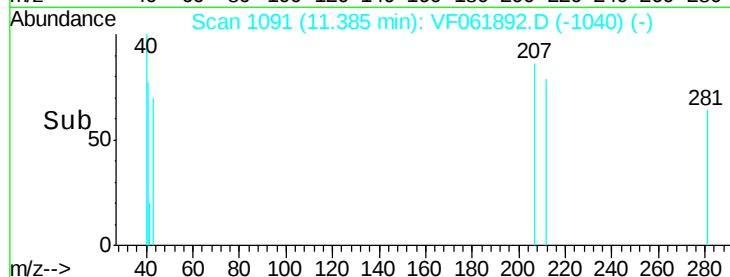
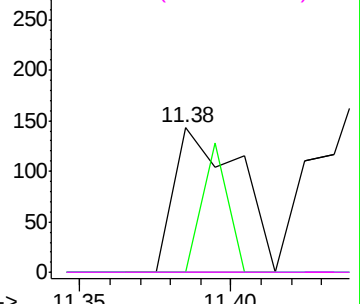


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 6.755 ug/l

RT: 11.68 min Scan# 1121

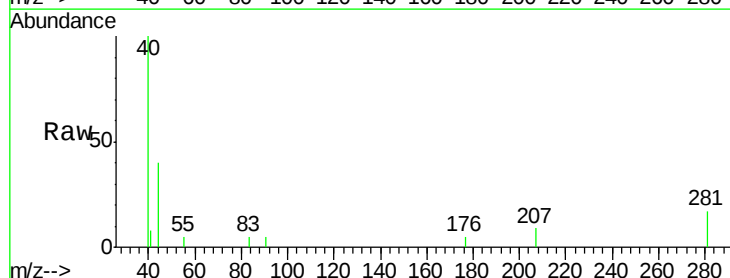
Delta R.T. -0.02 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Tgt Ion: 83 Resp: 65

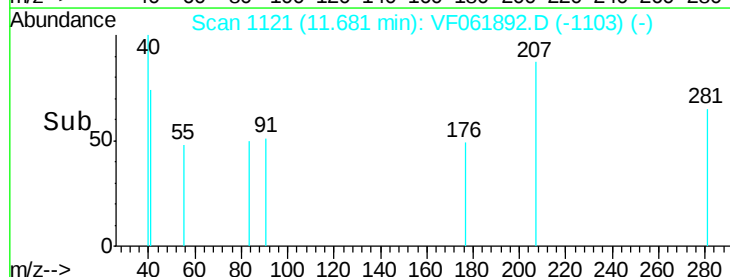
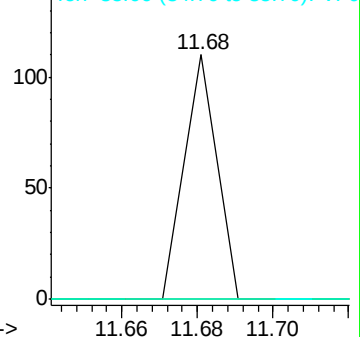
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.7#
85	0.0	34.2	102.6#

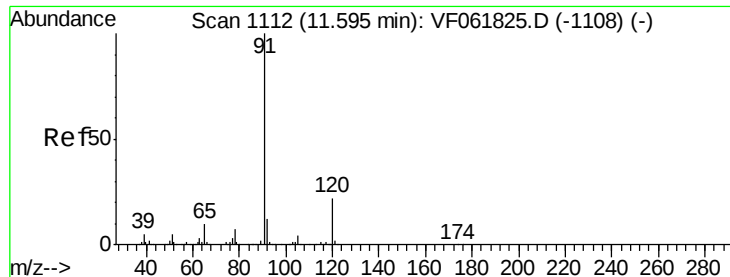


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#78

n-propylbenzene

Concen: 1.009 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. 0.09 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampled :

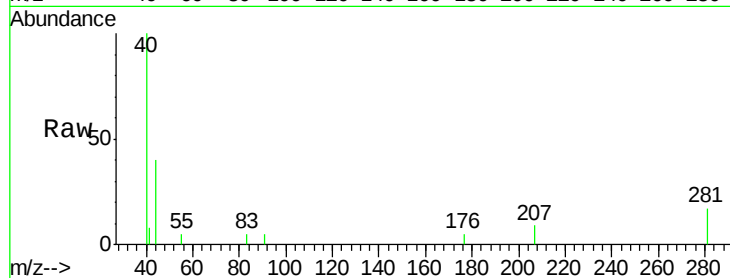
TP-28

Tot Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.68

100

80

60

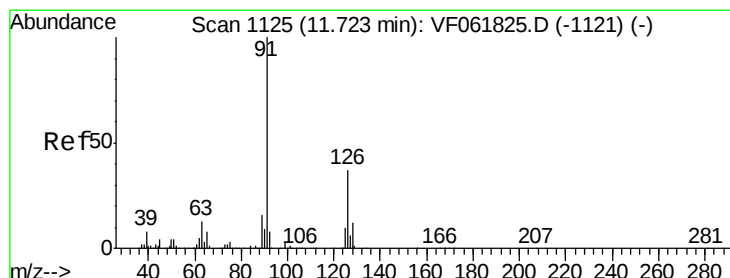
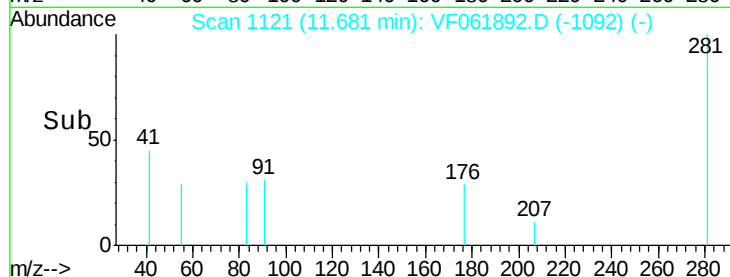
40

20

0

11.66 11.68 11.70

Time-->



#79

2-Chlorotoluene

Concen: 1.766 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF061892.D

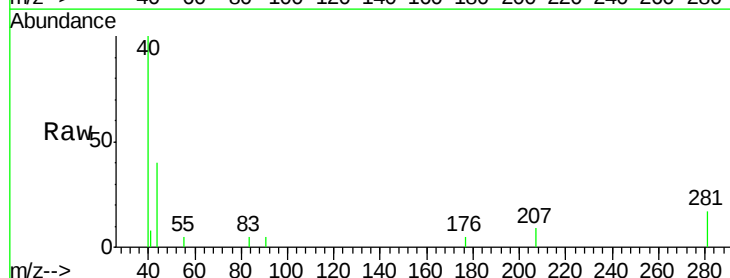
Acq: 11 Mar 2019 16:28

Tgt Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.68

120

100

80

60

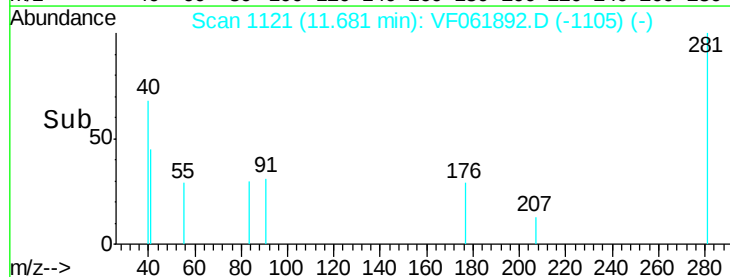
40

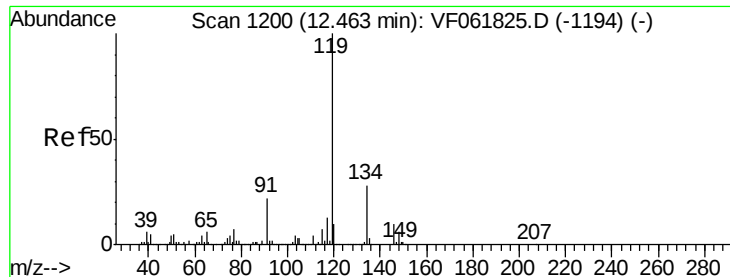
20

0

11.66 11.68 11.70

Time-->

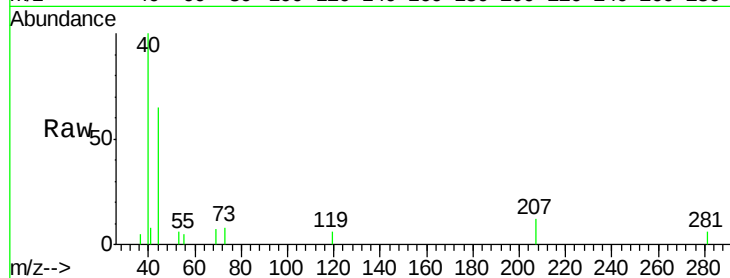




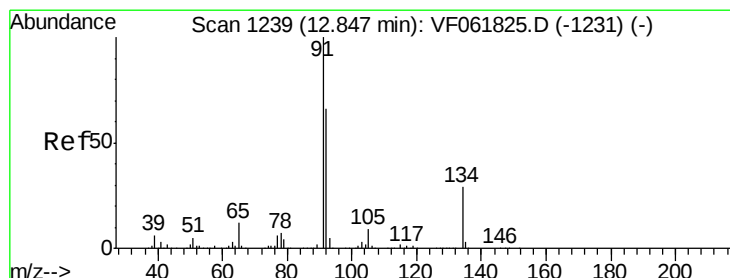
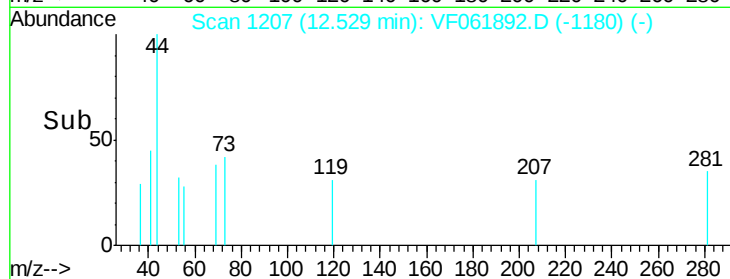
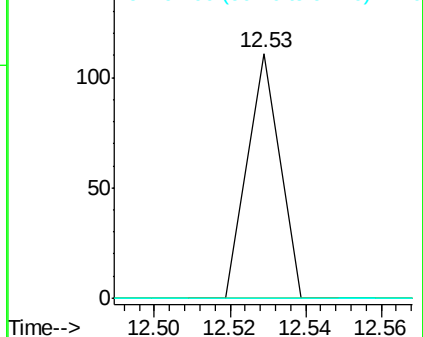
#86
 p-Isopropyltoluene
 Concen: 1.209 ug/l
 RT: 12.53 min Scan# 1207
 Delta R.T. 0.07 min
 Lab File: VF061892.D
 Acq: 11 Mar 2019 16:28

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-28

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	14.0	42.0#
91	0.0	11.1	33.3#

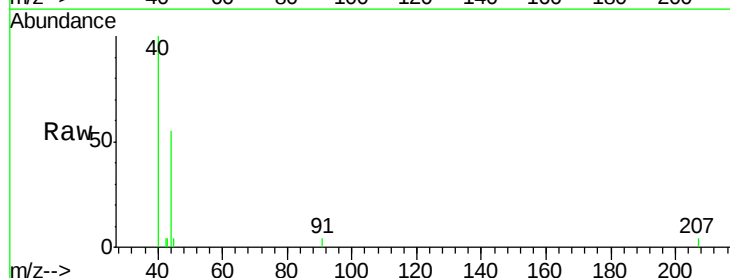


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

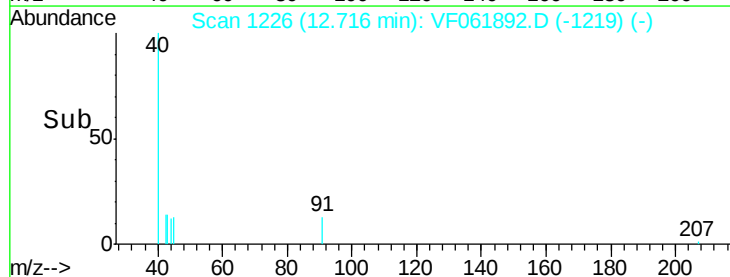
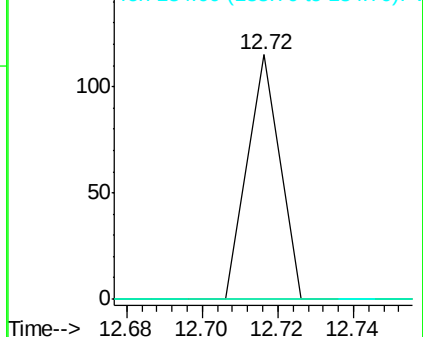


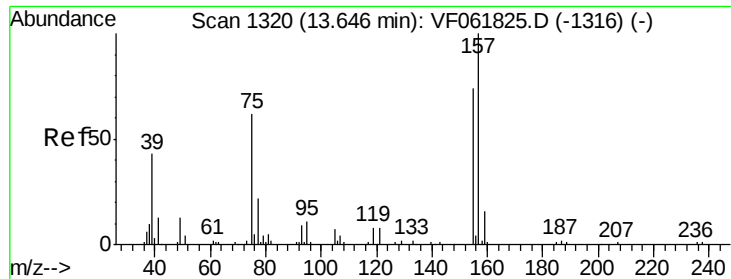
#89
 n-Butylbenzene
 Concen: 1.303 ug/l
 RT: 12.72 min Scan# 1226
 Delta R.T. -0.13 min
 Lab File: VF061892.D
 Acq: 11 Mar 2019 16:28

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	32.9	98.6#
134	0.0	14.5	43.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0
 Ion 92.00 (91.70 to 92.70): VF0
 Ion 134.00 (133.70 to 134.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 56.889 ug/l

RT: 13.52 min Scan# 1308

Delta R.T. -0.12 min

Lab File: VF061892.D

Acq: 11 Mar 2019 16:28

Instrument :

MSVOA_F

ClientSampleId :

TP-28

Tot Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

155 0.0 59.8 179.4#

157 0.0 81.2 243.4#

