

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059568.D
 Acq On : 19 Jul 2018 21:24
 Operator : VA/AP
 Sample : J3828-07
 Misc : 10.22g/5mL/MSVOA F/SOIL
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 04:53:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	7151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	6527	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	3134	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	117	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	209	1.88	ug/l	0.00
Spiked Amount			Recovery	=	3.76%	
35) Dibromofluoromethane	4.29	113	439	7.77	ug/l	-0.01
Spiked Amount			Recovery	=	15.54%	
50) Toluene-d8	7.70	98	2158	15.16	ug/l	-0.02
Spiked Amount			Recovery	=	30.32%	
62) 4-Bromofluorobenzene	11.51	95	407	5.45	ug/l	-0.01
Spiked Amount			Recovery	=	10.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	172	3.568	ug/l #	32
4) Vinyl Chloride	1.27	62	76	1.562	ug/l #	1
5) Bromomethane	1.37	94	66	1.958	ug/l #	3
6) Chloroethane	1.27	64	85	3.465	ug/l #	46
8) Diethyl Ether	1.76	74	61	2.663	ug/l	89
11) Tert butyl alcohol	2.62	59	114	11.119	ug/l #	74
13) Acrolein	2.15	56	67	Below Cal	#	52
15) Acrylonitrile	3.21	53	76	8.145	ug/l #	13
16) Acetone	2.33	43	299	Below Cal	#	64
18) Methyl Acetate	2.44	43	257	4.836	ug/l #	67
21) trans-1,2-Dichloroethene	2.42	96	225	4.552	ug/l #	1
23) Vinyl Acetate	3.32	43	255	2.327	ug/l #	84
25) 2-Butanone	4.54	43	160	6.197	ug/l #	60
26) 2,2-Dichloropropane	3.88	77	92	1.201	ug/l #	62
27) cis-1,2-Dichloroethene	3.64	96	153	2.659	ug/l	1
29) Tetrahydrofuran	4.28	42	158	Below Cal	#	38
31) Cyclohexane	3.88	56	67	1.117	ug/l #	15
39) Methylcyclohexane	5.63	83	67	1.351	ug/l #	14
41) Methacrylonitrile	4.92	41	143	7.633	ug/l #	27
43) Isopropyl Acetate	7.11	43	157	3.344	ug/l #	51
45) 1,2-Dichloropropane	6.45	63	80	2.274	ug/l #	42
48) Methyl methacrylate	6.87	41	412	12.288	ug/l #	56
51) 4-Methyl-2-Pentanone	8.39	43	675	20.284	ug/l	98
54) cis-1,3-Dichloropropene	7.47	75	169	2.238	ug/l #	1
56) Ethyl methacrylate	8.76	69	68	1.540	ug/l #	1
57) 1,3-Dichloropropane	8.85	76	158	2.509	ug/l #	42
58) 2-Chloroethyl Vinyl ether	7.67	63	76	19.490	ug/l	100
59) 2-Hexanone	9.63	43	83	3.300	ug/l #	30
60) Dibromochloromethane	8.82	129	65	1.083	ug/l #	12
64) Tetrachloroethene	8.20	164	63	2.699	ug/l #	1
65) Chlorobenzene	9.96	112	60	1.021	ug/l #	43
66) 1,1,1,2-Tetrachloroethane	9.98	131	138	5.155	ug/l #	8
68) m/p-Xylenes	10.25	106	64	1.733	ug/l #	66
69) o-Xylene	10.84	106	65	1.653	ug/l #	1

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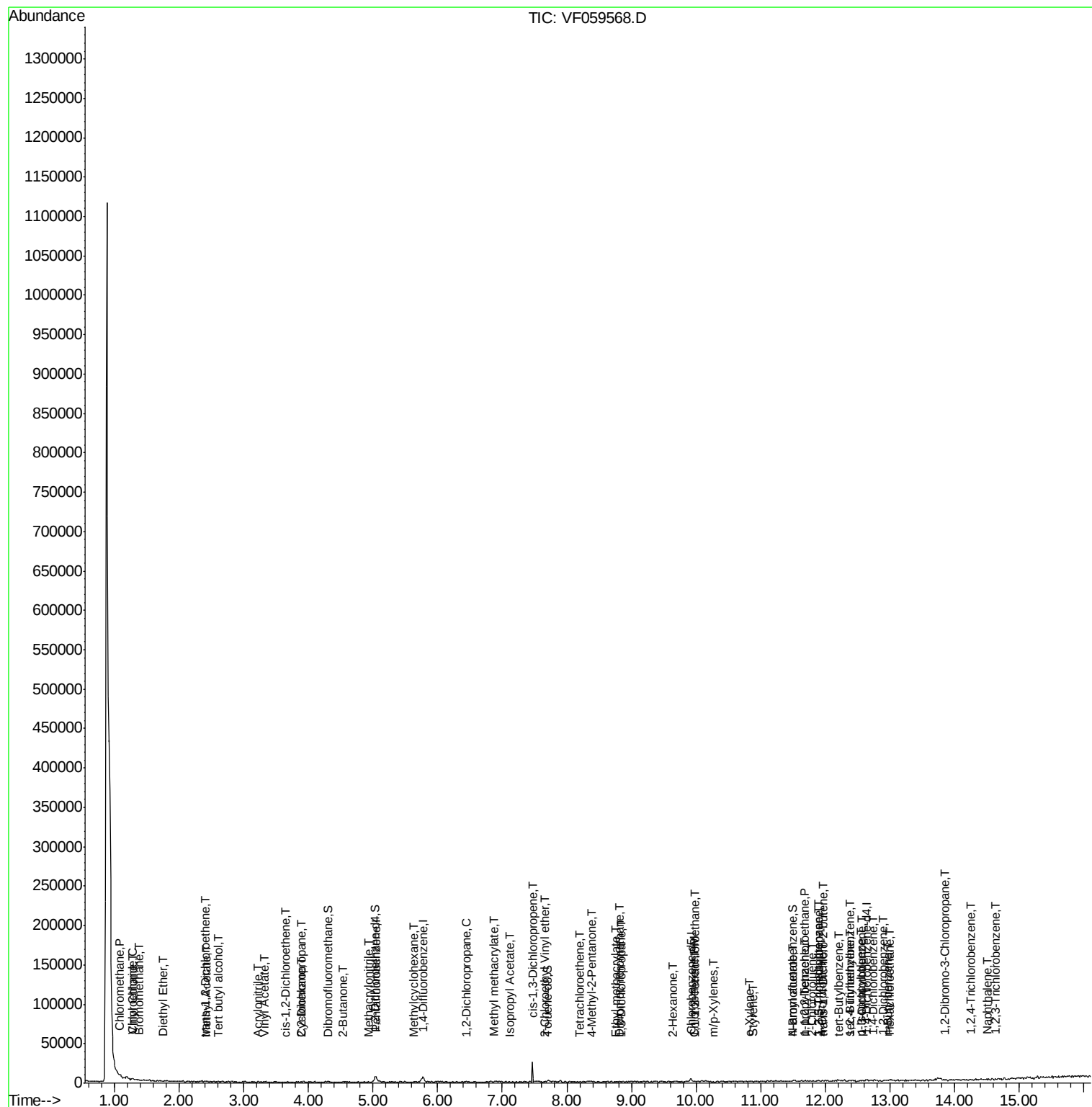
70) Styrene	10.89	104	66	1.092	ug/l #	26
74) N-amyl acetate	11.49	43	157	66.399	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.69	83	82	50.923	ug/l #	26
76) 1,2,3-Trichloropropane	11.89	75	126	95.821	ug/l #	38
78) n-propylbenzene	11.68	91	64	7.557	ug/l #	53
79) 2-Chlorotoluene	11.78	91	77	14.761	ug/l #	43
80) 1,3,5-Trimethylbenzene	11.90	105	60	9.699	ug/l #	29
81) trans-1,4-Dichloro-2-buten	11.96	75	216	359.592	ug/l #	6
82) 4-Chlorotoluene	11.94	91	61	10.436	ug/l #	46
83) tert-Butylbenzene	12.21	119	62	10.442	ug/l #	9
84) 1,2,4-Trimethylbenzene	12.36	105	61	9.584	ug/l #	31
85) sec-Butylbenzene	12.39	105	93	12.316	ug/l #	56
86) p-Isopropyltoluene	12.55	119	63	9.589	ug/l #	50
87) 1,3-Dichlorobenzene	12.56	146	64	18.027	ug/l #	23
88) 1,4-Dichlorobenzene	12.72	146	69	19.724	ug/l #	25
89) n-Butylbenzene	12.98	91	62	10.084	ug/l #	30
90) Hexachloroethane	12.99	117	78	52.266	ug/l #	17
91) 1,2-Dichlorobenzene	12.90	146	79	23.267	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.85	75	76	208.327	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.25	180	80	38.775	ug/l #	12
95) Naphthalene	14.50	128	441	102.892	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.63	180	130	69.737	ug/l #	11

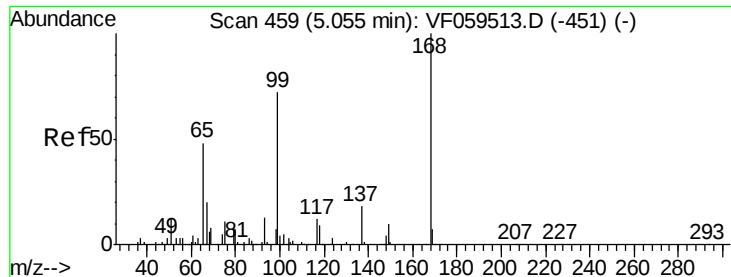
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.00 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

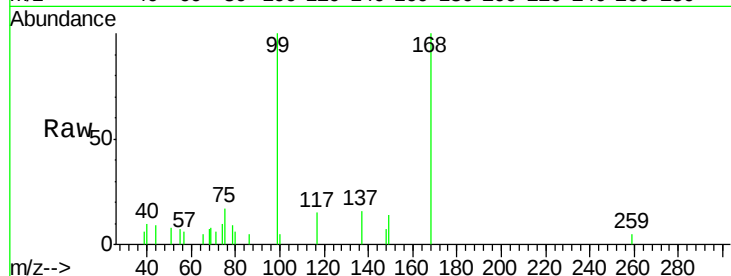
ClientSampleId :

Tot Ion:168 Resp: 7151

Ion Ratio Lower Upper

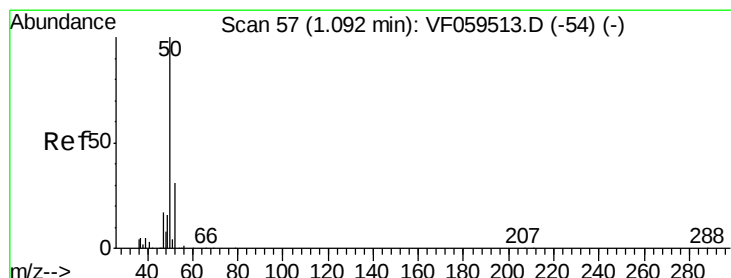
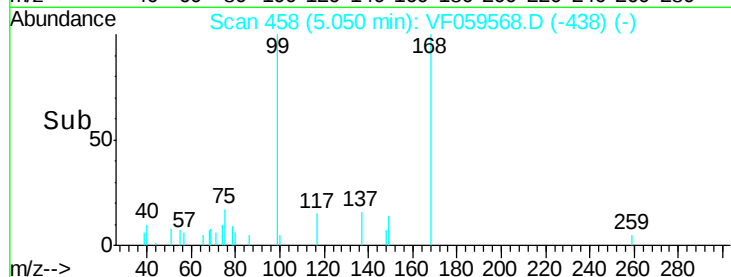
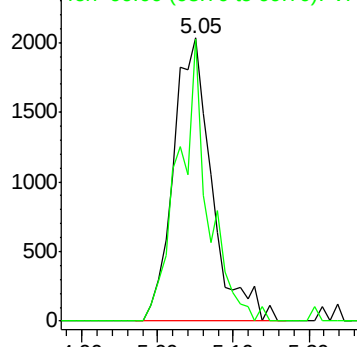
168 100

99 99.6 57.6 86.4#



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 3.568 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059568.D

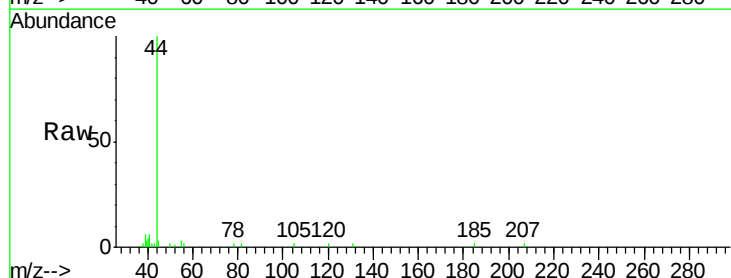
Acq: 19 Jul 2018 21:24

Tgt Ion: 50 Resp: 172

Ion Ratio Lower Upper

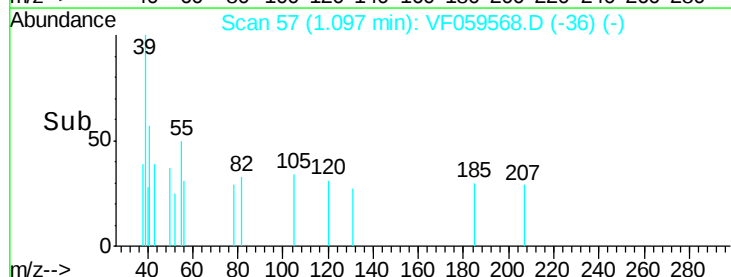
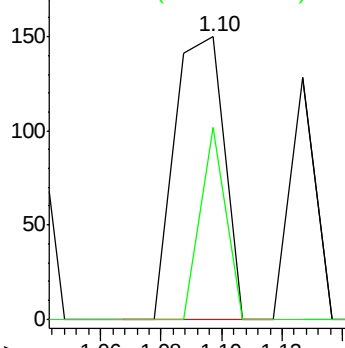
50 100

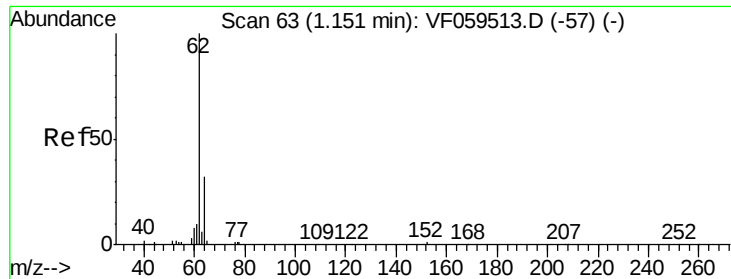
52 68.0 24.6 37.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#4

Vinyl Chloride

Concen: 1.562 ug/l

RT: 1.27 min Scan# 75

Delta R.T. 0.12 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

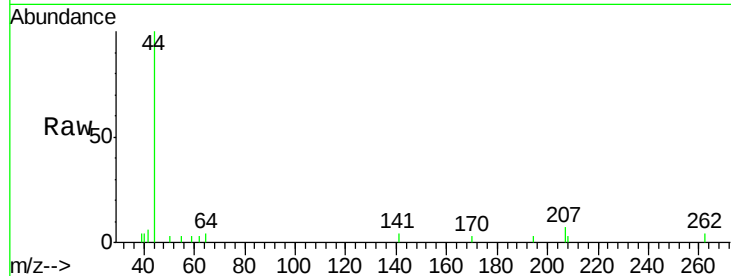
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 62 Resp: 76

Ion Ratio Lower Upper

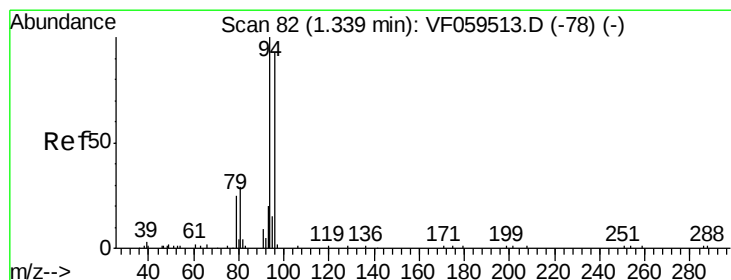
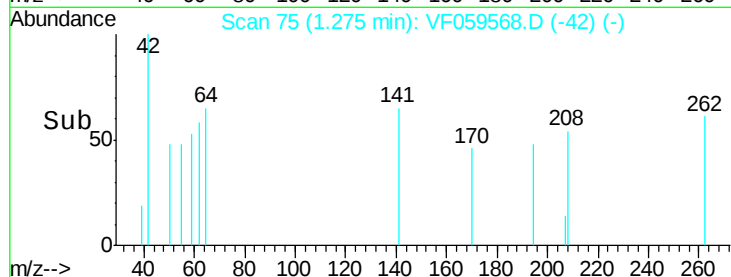
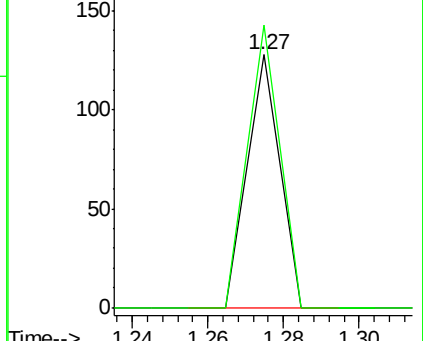
62 100

64 111.7 25.7 38.5#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



#5

Bromomethane

Concen: 1.958 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.03 min

Lab File: VF059568.D

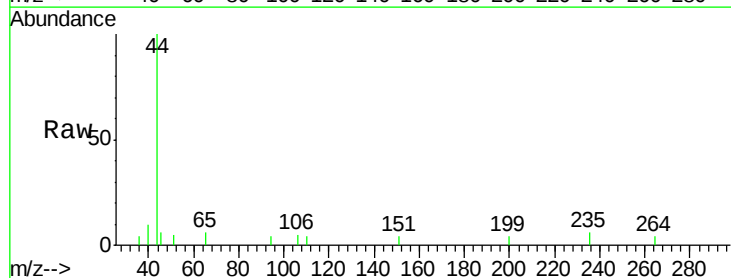
Acq: 19 Jul 2018 21:24

Tgt Ion: 94 Resp: 66

Ion Ratio Lower Upper

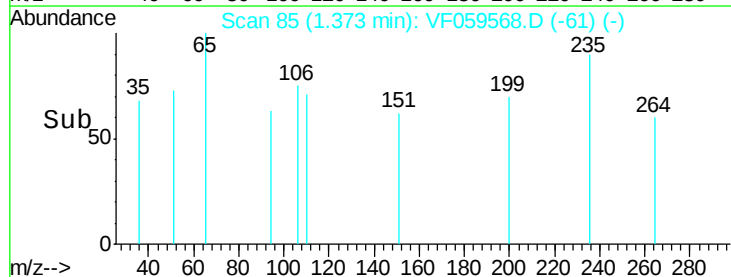
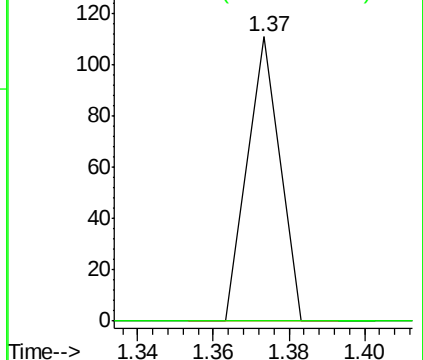
94 100

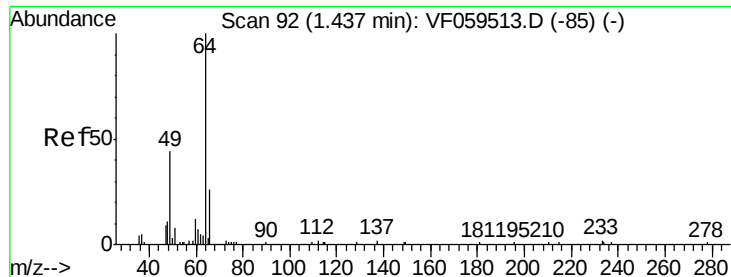
96 0.0 74.2 111.2#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 3.465 ug/l

RT: 1.27 min Scan# 75

Delta R.T. -0.16 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

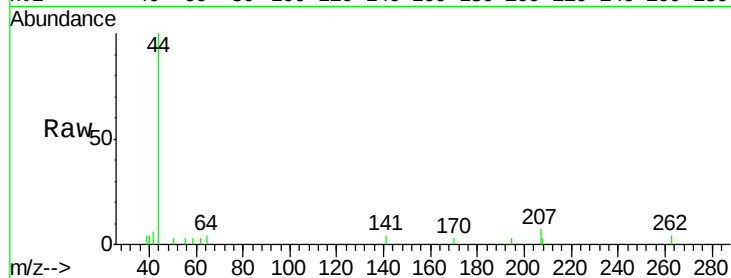
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 64 Resp: 85

Ion Ratio Lower Upper

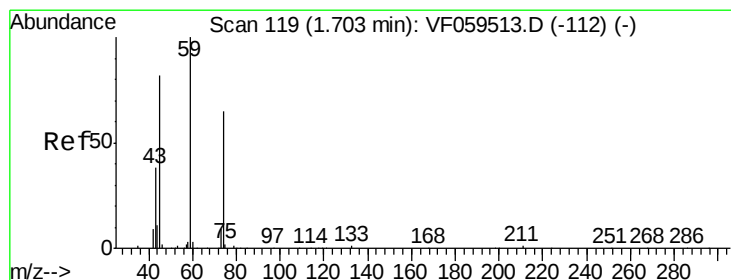
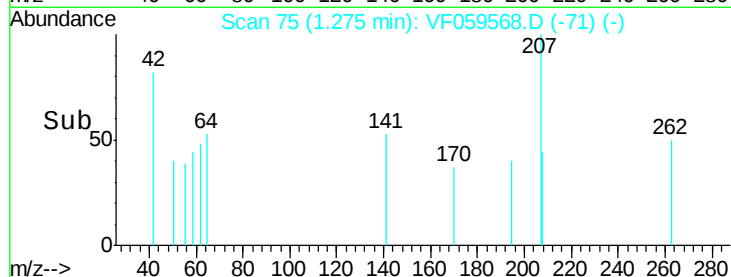
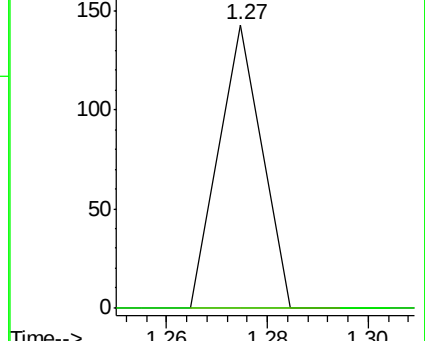
64 100

66 0.0 22.9 34.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 2.663 ug/l

RT: 1.76 min Scan# 124

Delta R.T. 0.05 min

Lab File: VF059568.D

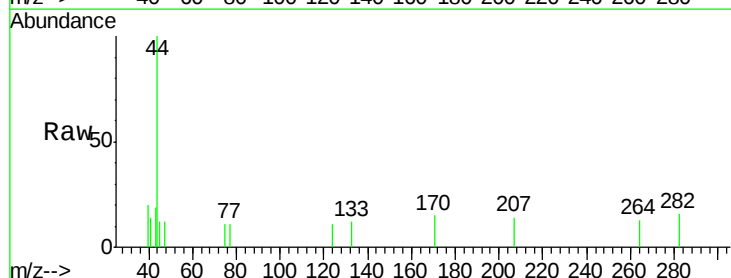
Acq: 19 Jul 2018 21:24

Tgt Ion: 74 Resp: 61

Ion Ratio Lower Upper

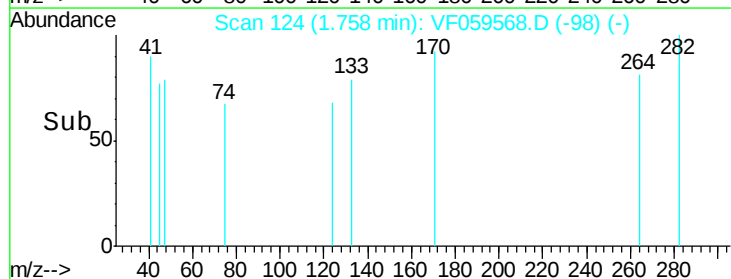
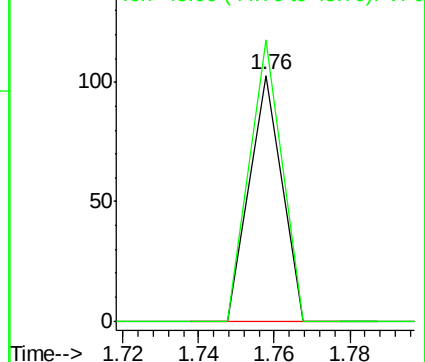
74 100

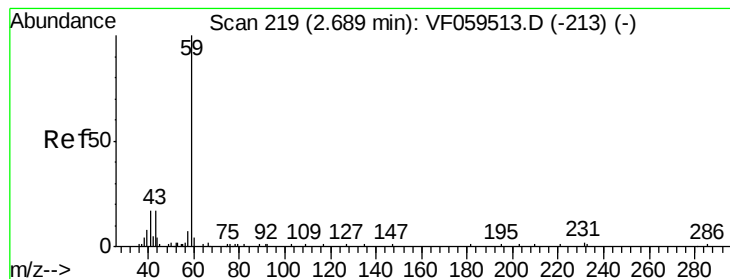
45 114.6 63.6 190.9



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



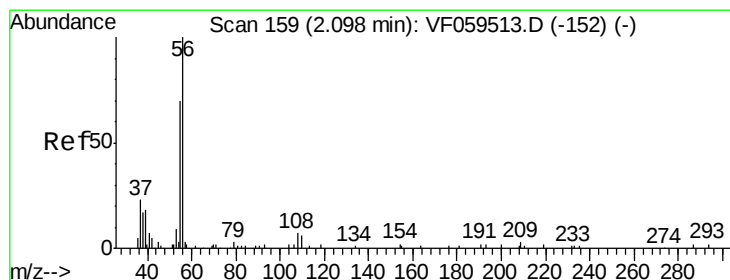
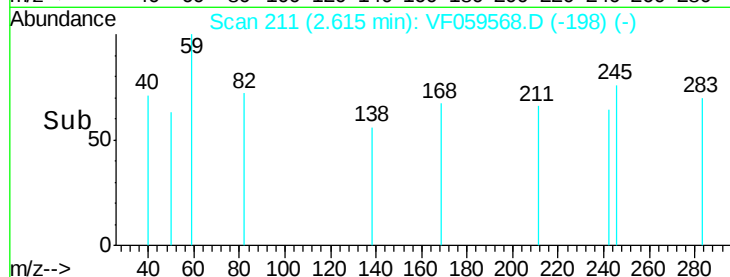
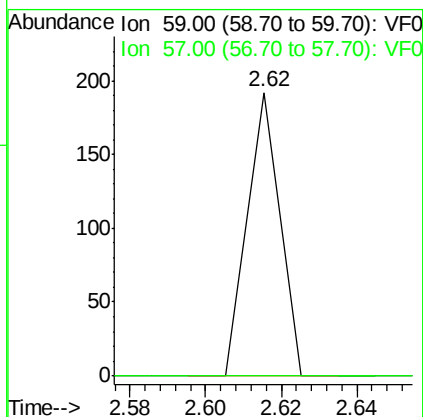
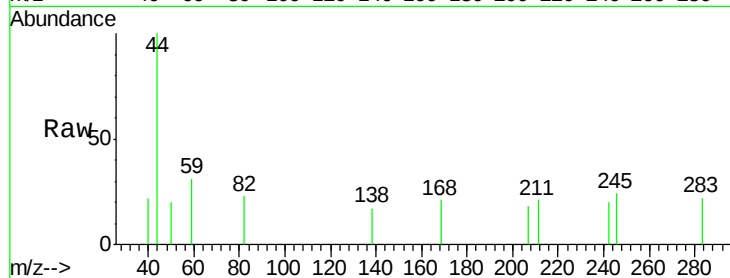


#11

Tert butyl alcohol
 Concen: 11.119 ug/l
 RT: 2.62 min Scan# 211
 Delta R.T. -0.07 min
 Lab File: VF059568.D
 Acq: 19 Jul 2018 21:24

Instrument :
 MSVOA_F
 ClientSampled :

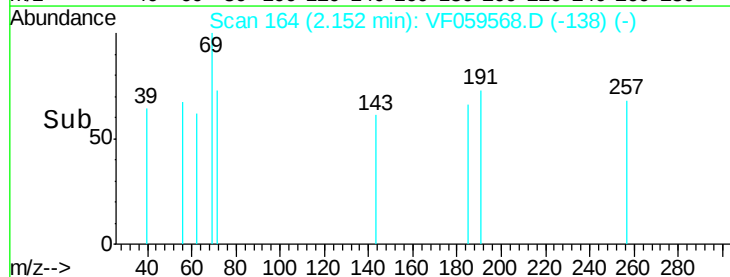
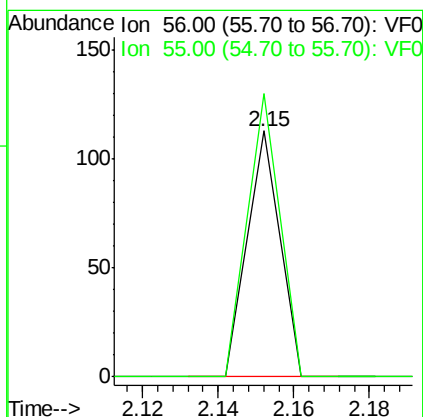
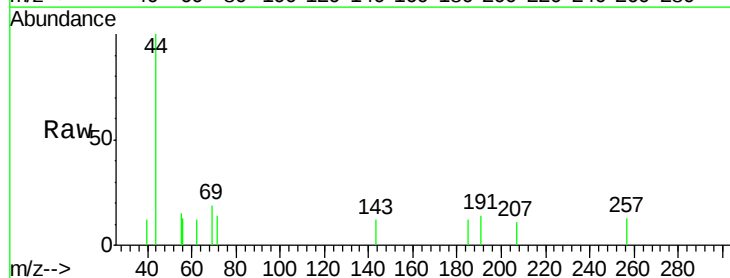
Tot Ion: 59 Resp: 114
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

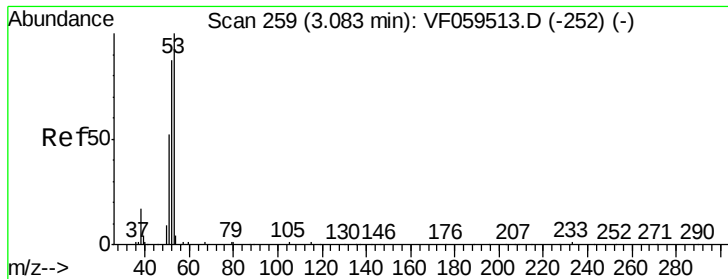


#13

Acrolein
 Concen: Below Cal
 RT: 2.15 min Scan# 164
 Delta R.T. 0.05 min
 Lab File: VF059568.D
 Acq: 19 Jul 2018 21:24

Tgt Ion: 56 Resp: 67
 Ion Ratio Lower Upper
 56 100
 55 115.0 59.4 89.2#





#15

Acrylonitrile

Concen: 8.145 ug/l

RT: 3.21 min Scan# 271

Delta R.T. 0.12 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

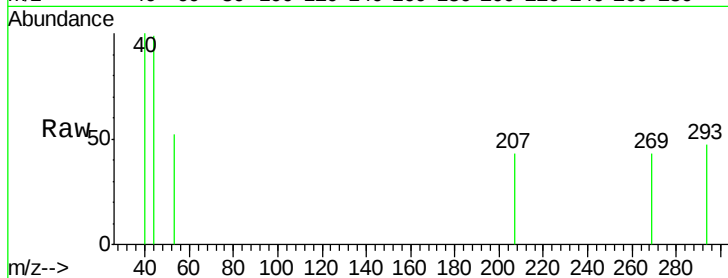
Tot Ion: 53 Resp: 76

Ion Ratio Lower Upper

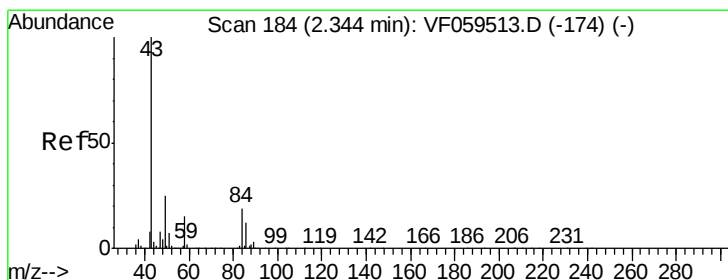
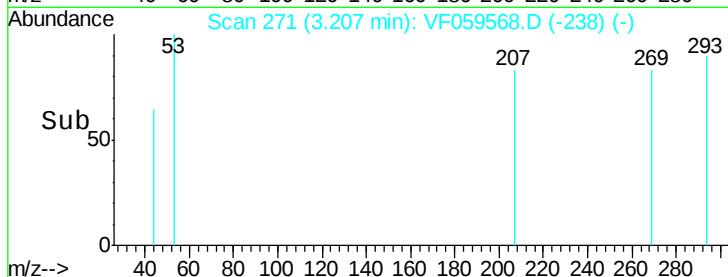
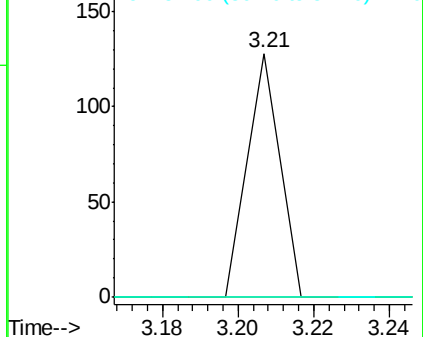
53 100

52 0.0 70.1 105.1#

51 0.0 42.5 63.7#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF059568.D

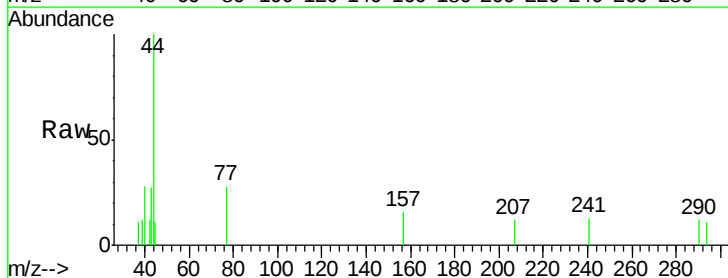
Acq: 19 Jul 2018 21:24

Tgt Ion: 43 Resp: 299

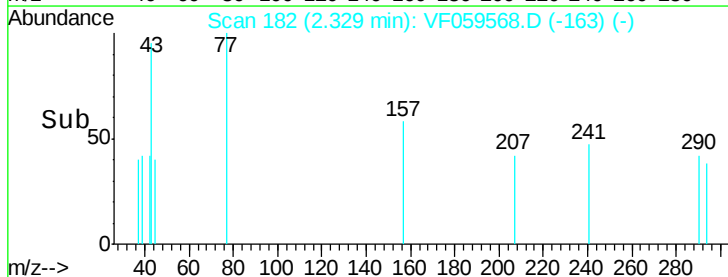
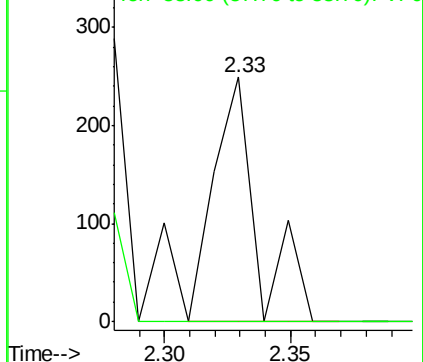
Ion Ratio Lower Upper

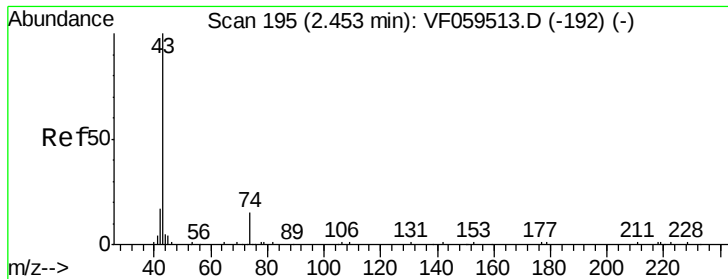
43 100

58 0.0 11.8 17.6#



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

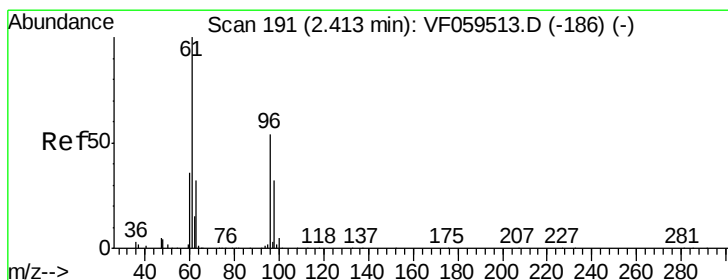
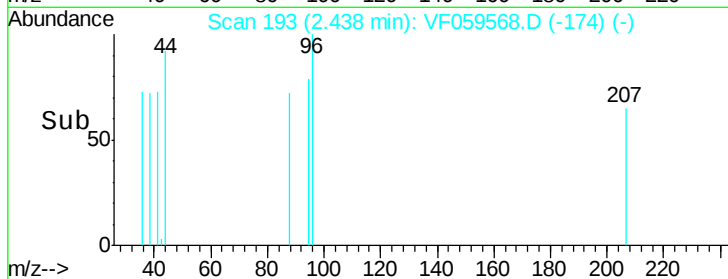
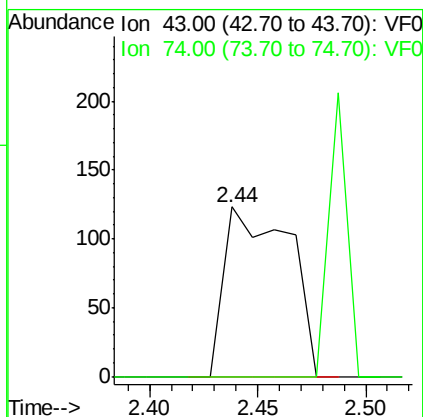
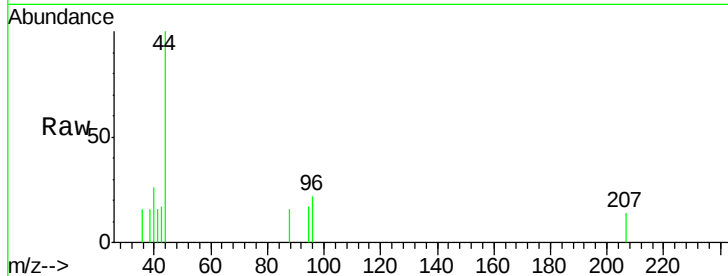




#18
Methvl Acetate
Concen: 4.836 ug/l
RT: 2.44 min Scan# 193
Delta R.T. -0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

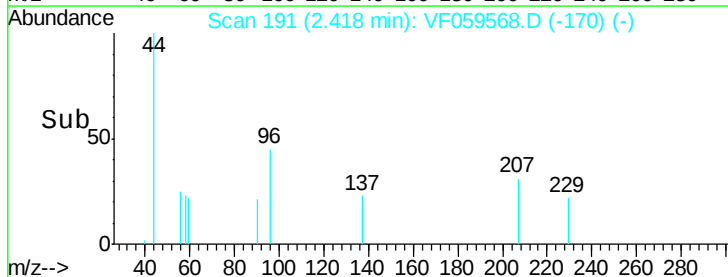
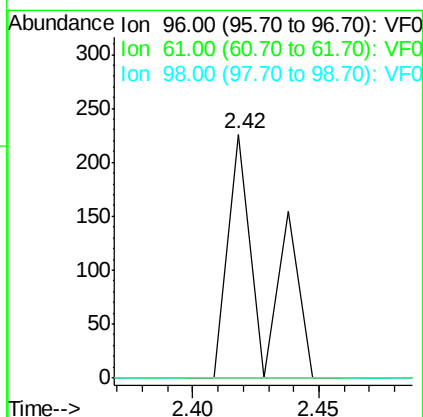
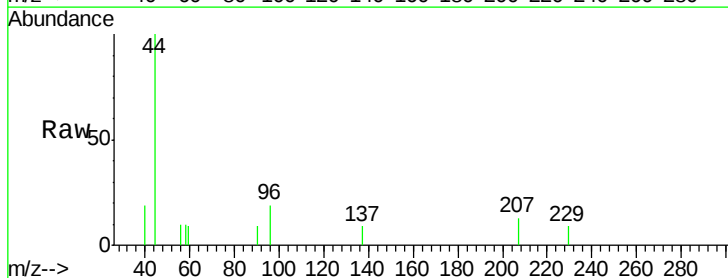
Instrument :
MSVOA_F
ClientSampleId :

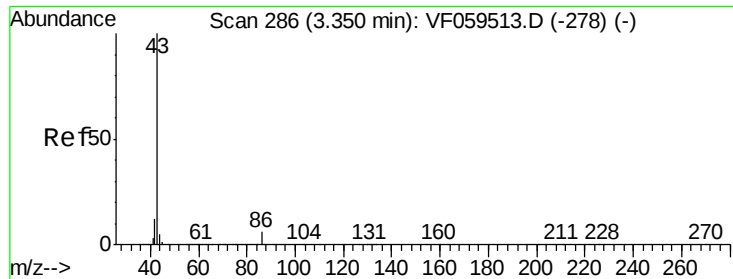
Tot Ion: 43 Resp: 257
Ion Ratio Lower Upper
43 100
74 0.0 10.6 15.8#



#21
trans-1,2-Dichloroethene
Concen: 4.552 ug/l
RT: 2.42 min Scan# 191
Delta R.T. 0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion: 96 Resp: 225
Ion Ratio Lower Upper
96 100
61 0.0 149.8 224.8#
98 0.0 47.8 71.8#





#23

Vinyl Acetate

Concen: 2.327 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.02 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

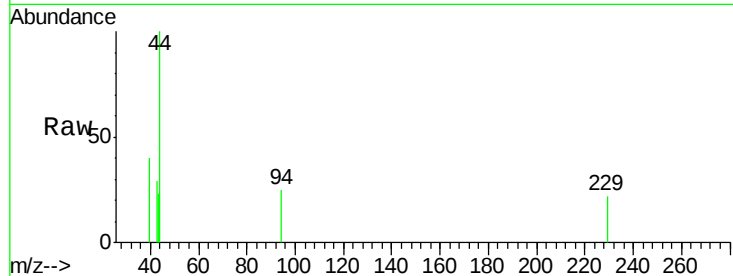
ClientSampleId :

Tot Ion: 43 Resp: 255

Ion Ratio Lower Upper

43 100

86 0.0 4.4 6.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.32

250

200

150

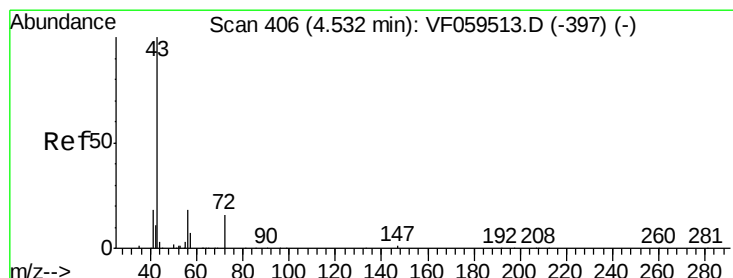
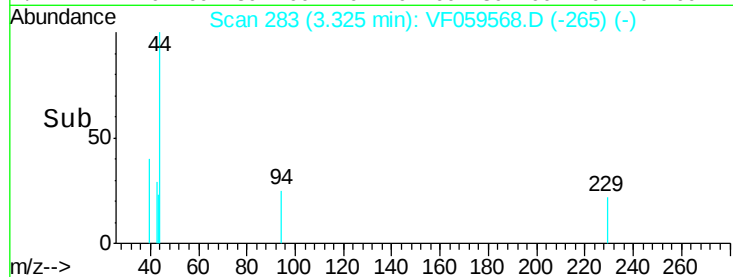
100

50

0

3.30 3.35

Time-->



#25

2-Butanone

Concen: 6.197 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF059568.D

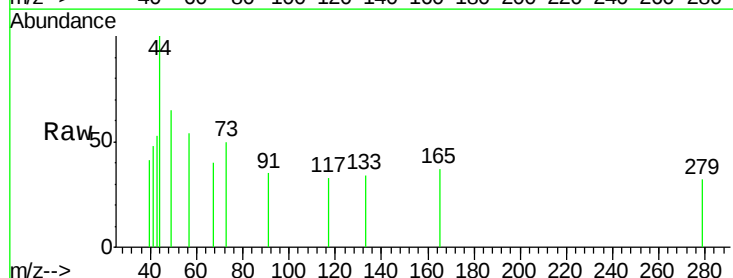
Acq: 19 Jul 2018 21:24

Tgt Ion: 43 Resp: 160

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.54

150

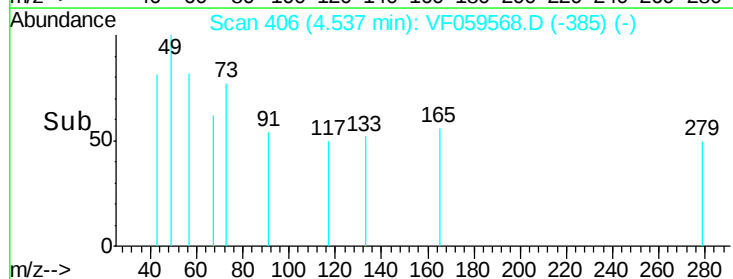
100

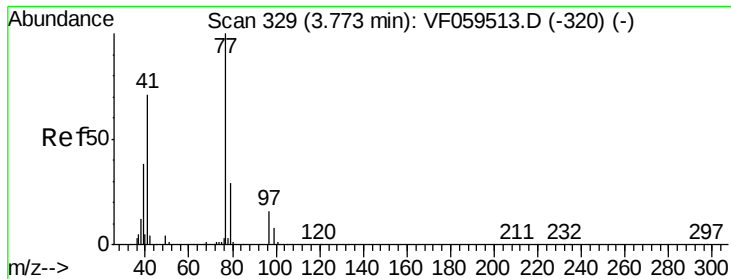
50

0

4.50 4.52 4.54 4.56

Time-->





#26

2,2-Dichloropropane

Concen: 1.201 ug/l

RT: 3.88 min Scan# 339

Delta R.T. 0.10 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

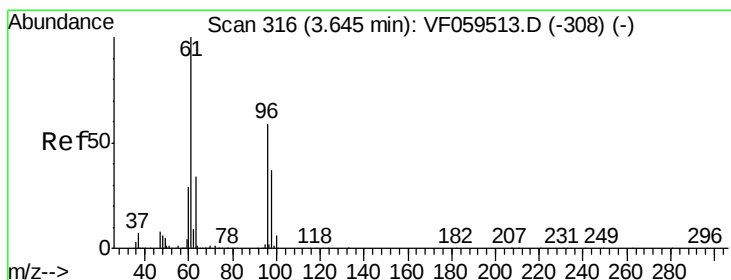
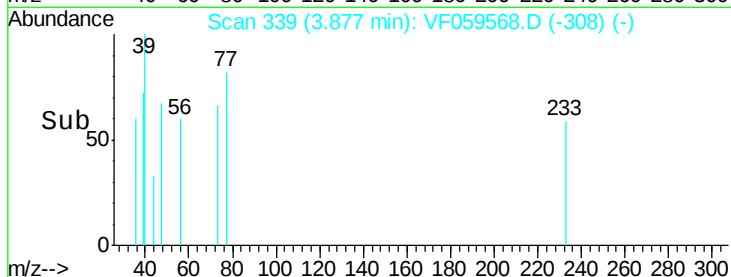
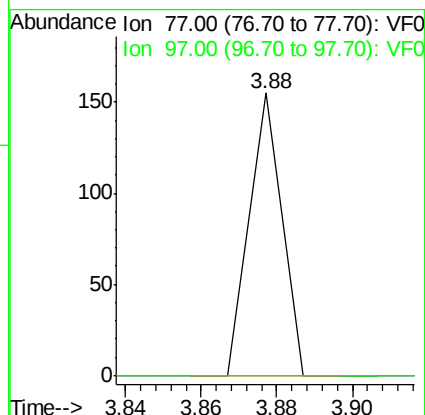
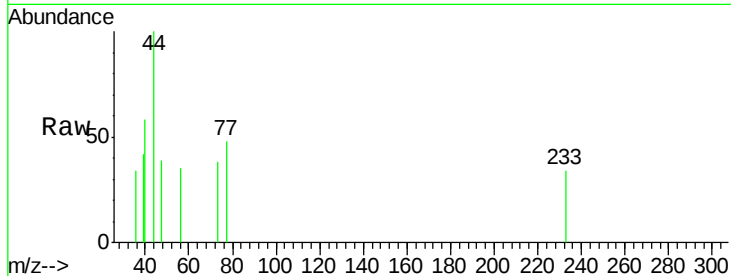
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 77 Resp: 92

Ion Ratio Lower Upper

77 100

97 0.0 8.1 24.3#



#27

cis-1,2-Dichloroethene

Concen: 2.659 ug/l

RT: 3.64 min Scan# 315

Delta R.T. -0.00 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

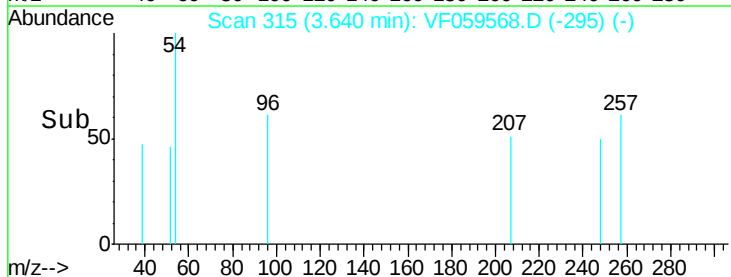
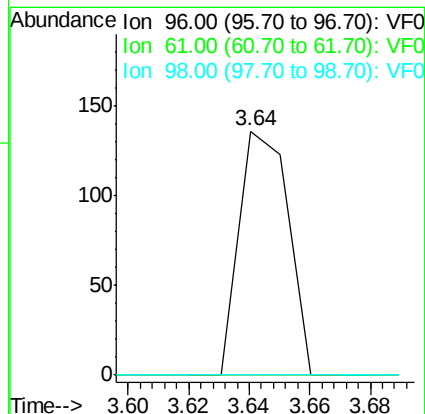
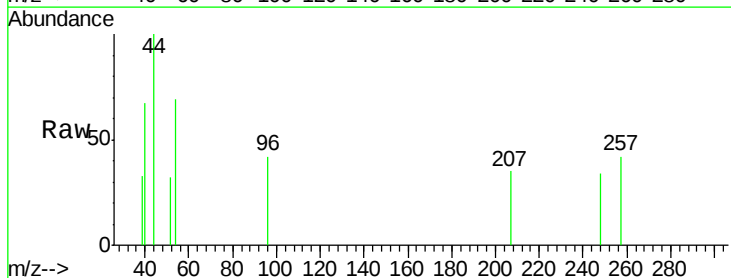
Tgt Ion: 96 Resp: 153

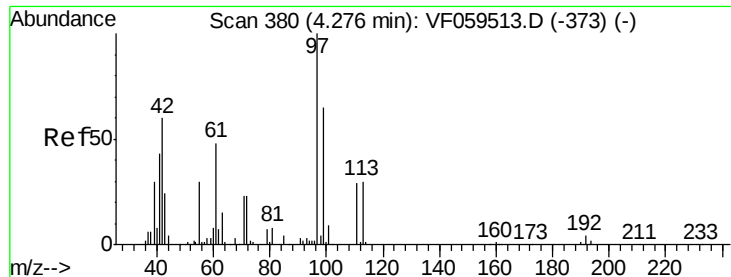
Ion Ratio Lower Upper

96 100

61 0.0 0.0 339.0

98 0.0 0.0 125.4





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.28 min Scan# 380

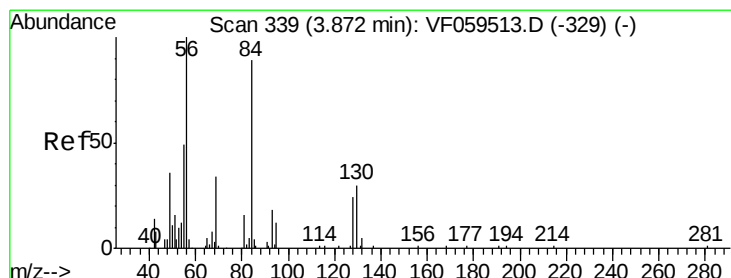
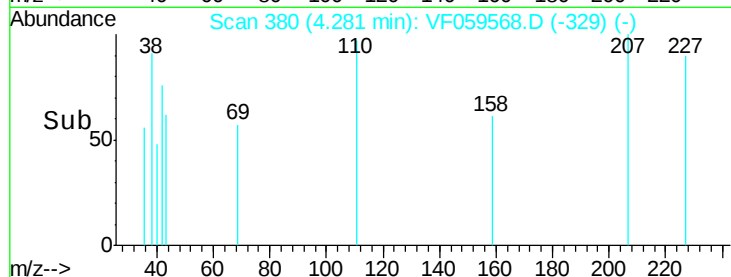
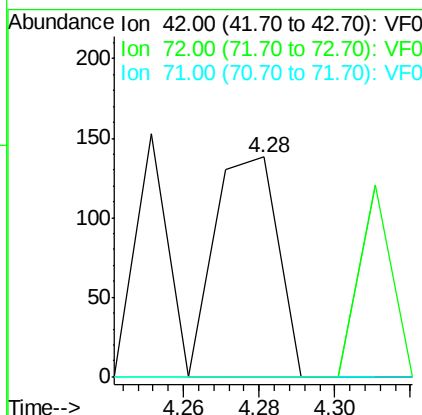
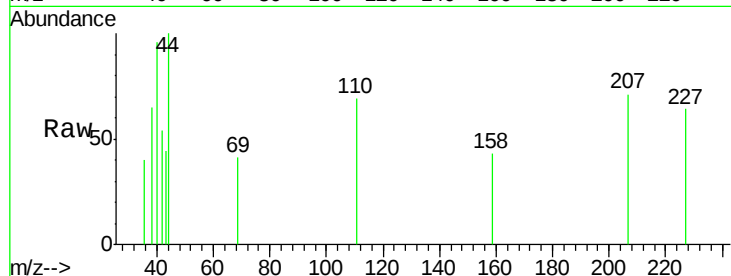
Delta R.T. 0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 42 Resp: 158
Ion Ratio Lower Upper
42 100
72 0.0 28.7 43.1#
71 0.0 30.8 46.2#



#31

Cyclohexane

Concen: 1.117 ug/l

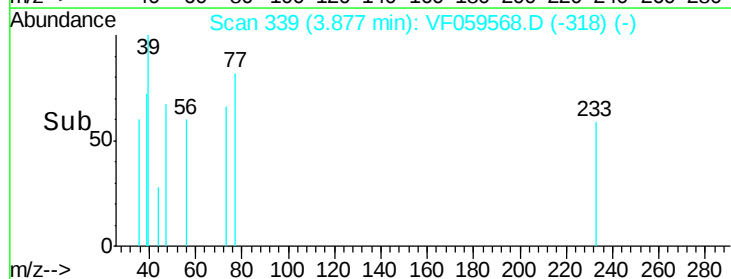
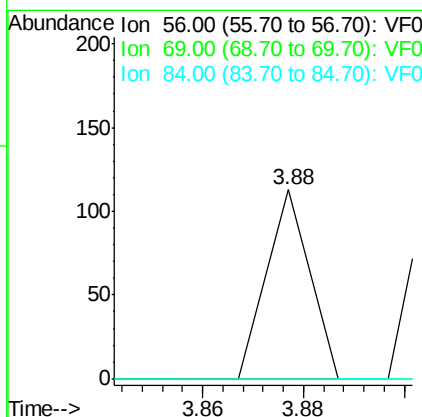
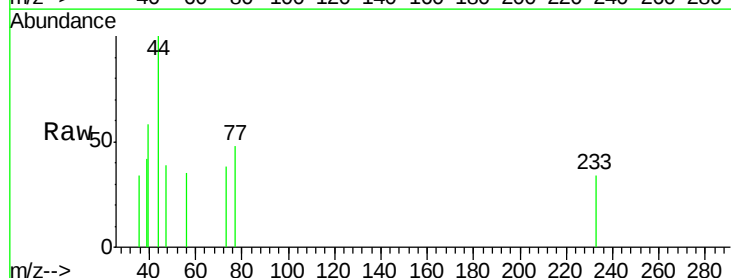
RT: 3.88 min Scan# 339

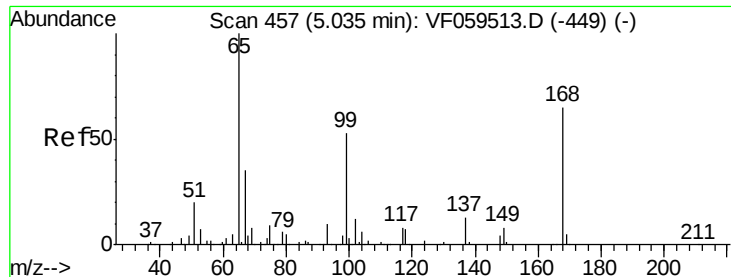
Delta R.T. 0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
69 0.0 27.6 41.4#
84 0.0 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 1.879 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

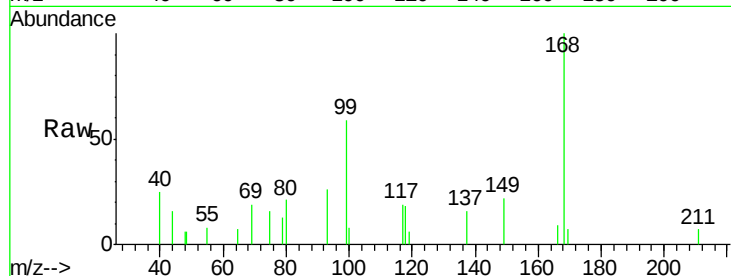
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 209

Ion Ratio Lower Upper

65 100

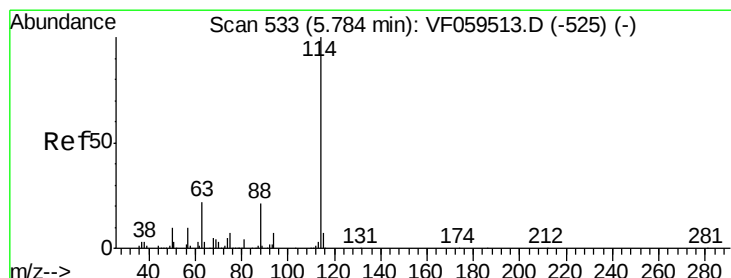
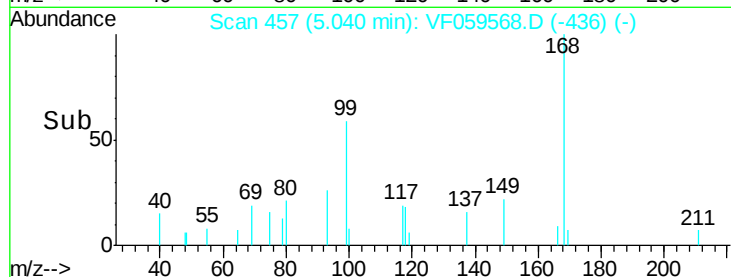
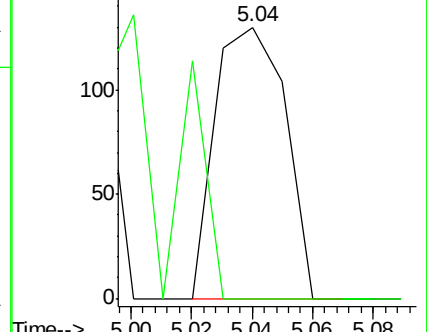
67 0.0 0.0 91.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.04



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

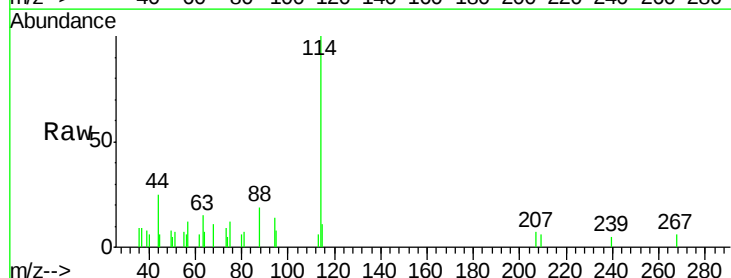
Tgt Ion: 114 Resp: 6527

Ion Ratio Lower Upper

114 100

63 13.5 0.0 44.8

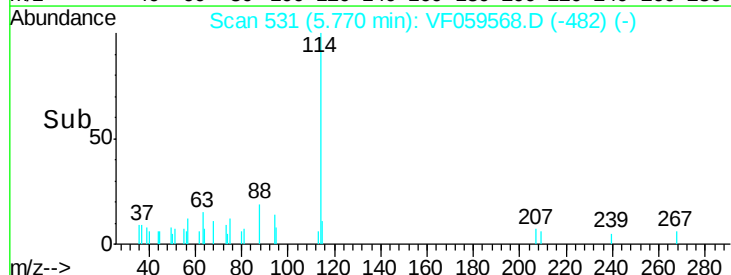
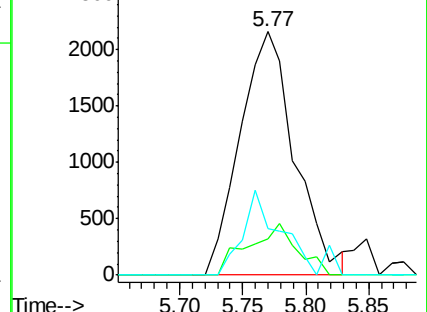
88 17.1 0.0 42.6

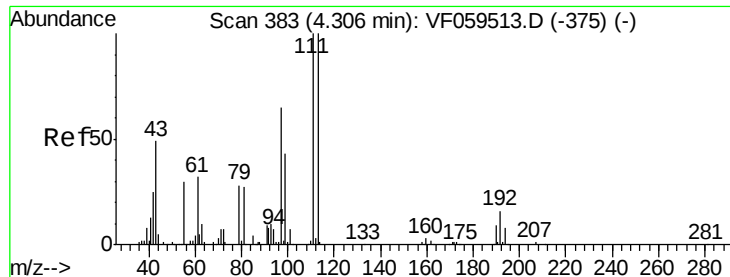


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 7.766 ug/l

RT: 4.29 min Scan# 381

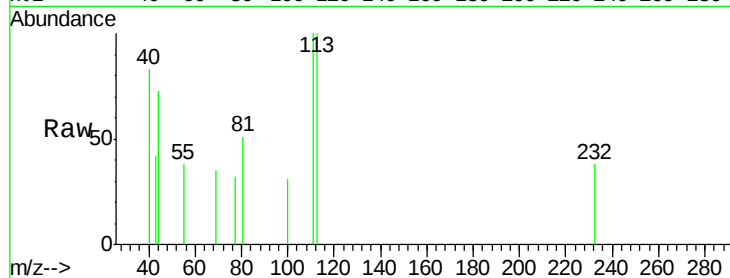
Delta R.T. -0.01 min

Lab File: VF059568.D

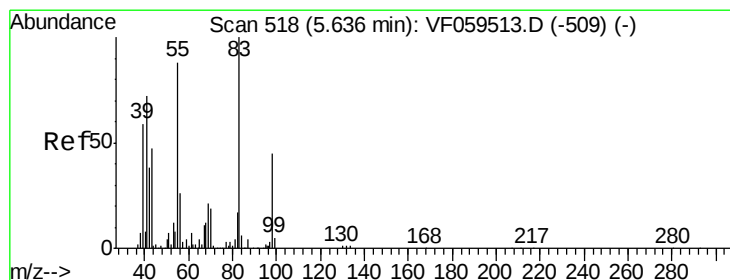
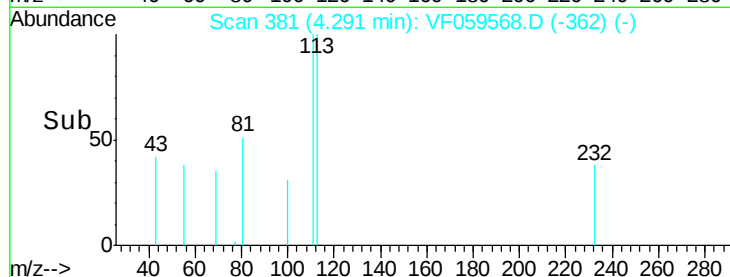
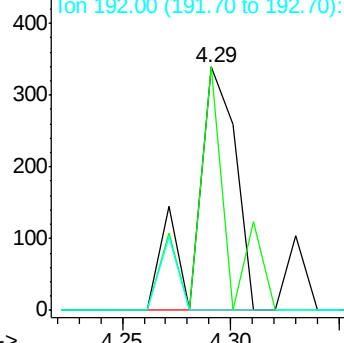
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 439
Ion Ratio Lower Upper
113 100
111 100.0 80.3 120.5
192 0.0 13.1 19.7#



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



#39

Methylcyclohexane

Concen: 1.351 ug/l

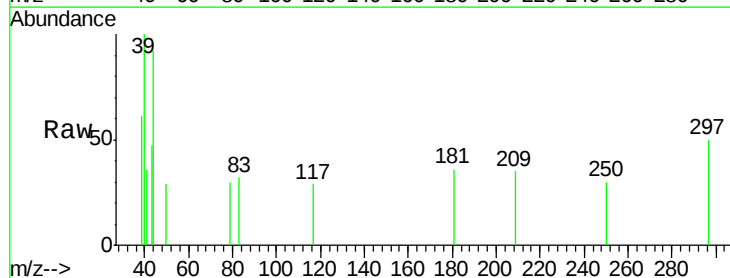
RT: 5.63 min Scan# 517

Delta R.T. -0.00 min

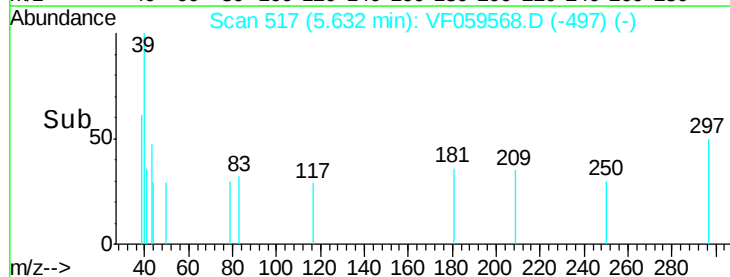
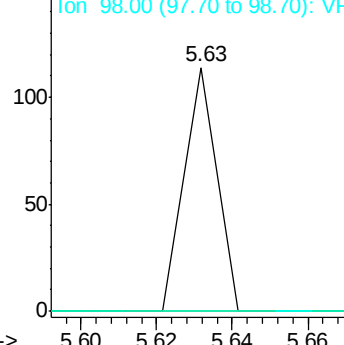
Lab File: VF059568.D

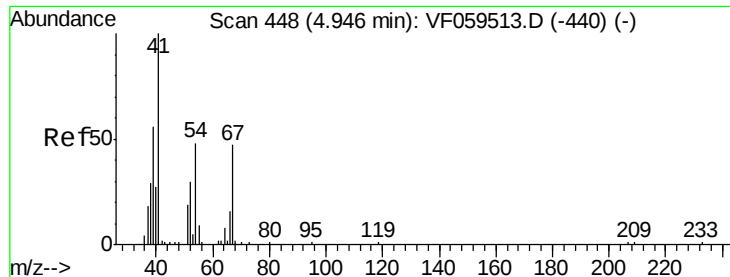
Acq: 19 Jul 2018 21:24

Tgt Ion: 83 Resp: 67
Ion Ratio Lower Upper
83 100
55 0.0 70.2 105.4#
98 0.0 36.2 54.2#



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 7.633 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 143

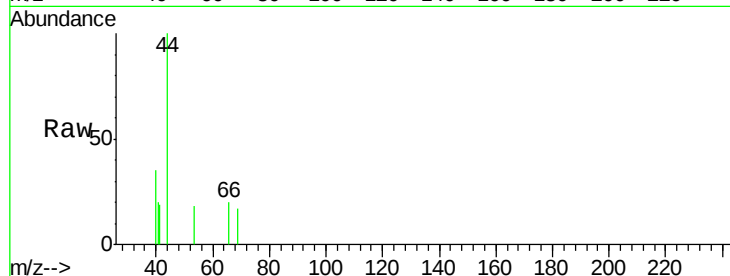
Ion Ratio Lower Upper

41 100

39 0.0 49.4 74.0#

67 0.0 37.4 56.2#

52 0.0 32.1 48.1#

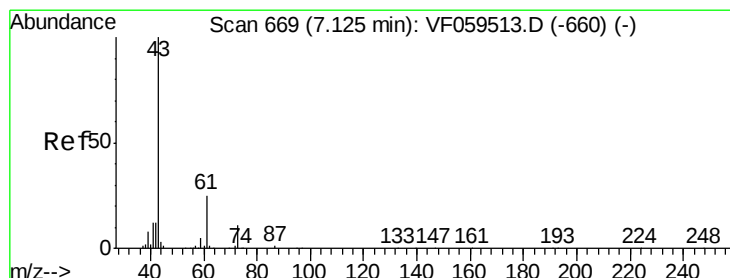
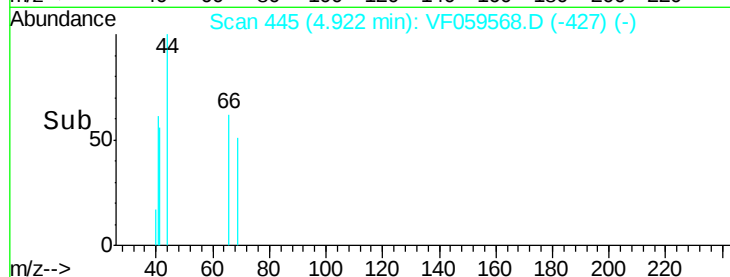
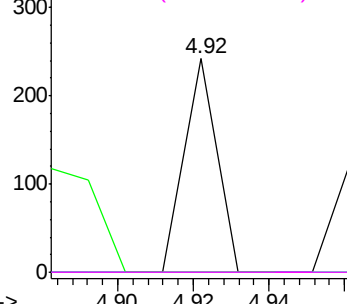


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 3.344 ug/l

RT: 7.11 min Scan# 667

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

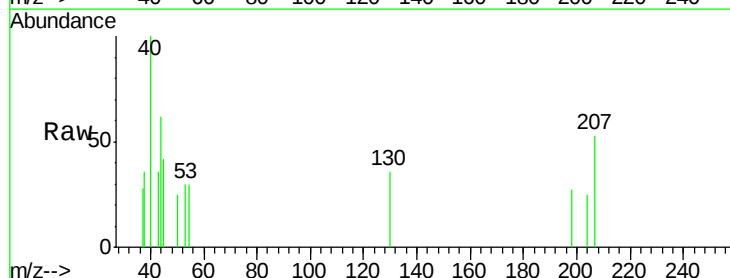
Tgt Ion: 43 Resp: 157

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

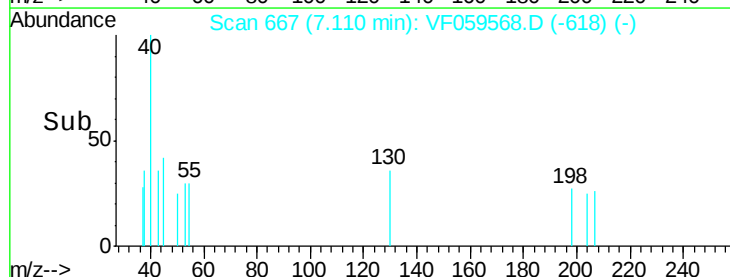
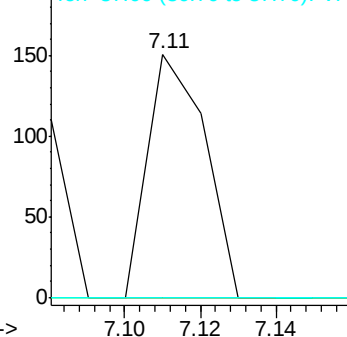
87 0.0 0.4 0.6#

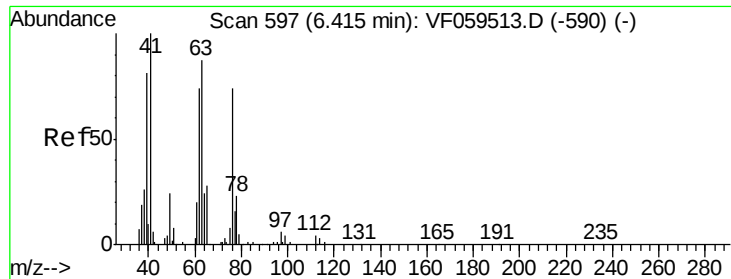


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 2.274 ug/l

RT: 6.45 min Scan# 600

Delta R.T. 0.03 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

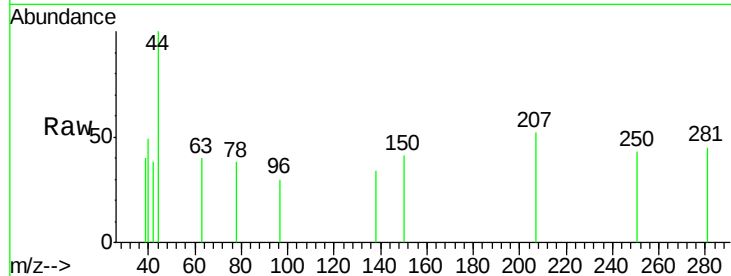
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 63 Resp: 80

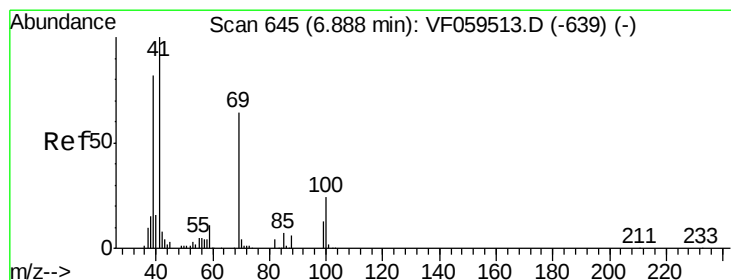
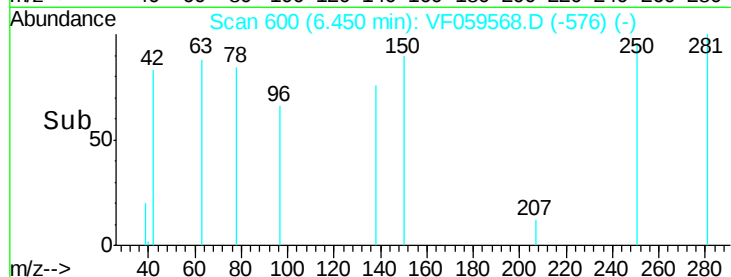
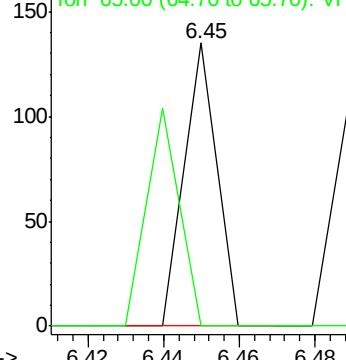
Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



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



#48

Methyl methacrylate

Concen: 12.288 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

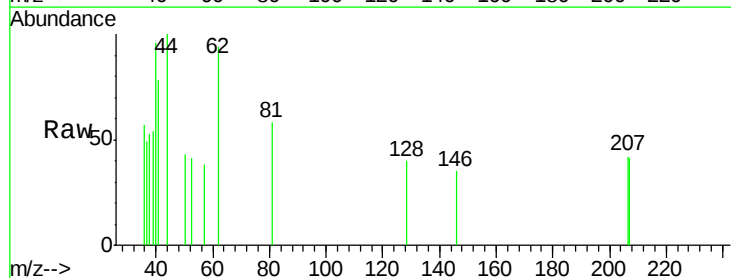
Tgt Ion: 41 Resp: 412

Ion Ratio Lower Upper

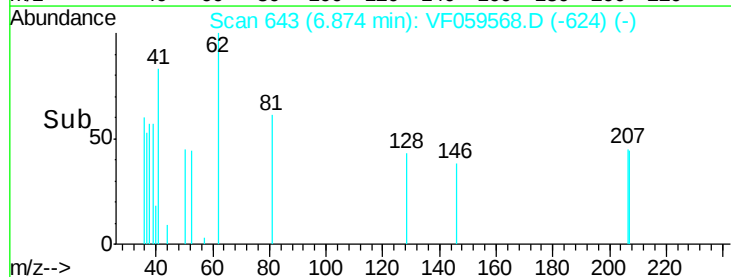
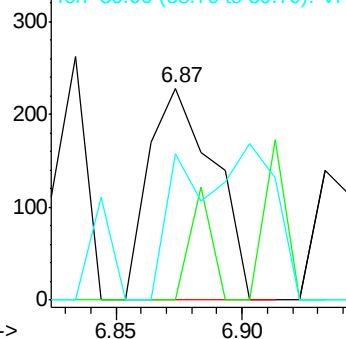
41 100

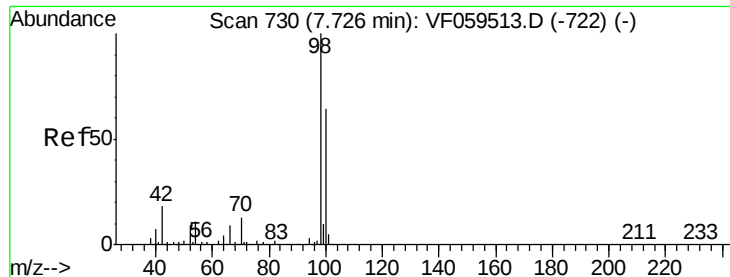
69 0.0 51.3 76.9#

39 68.9 65.3 97.9



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

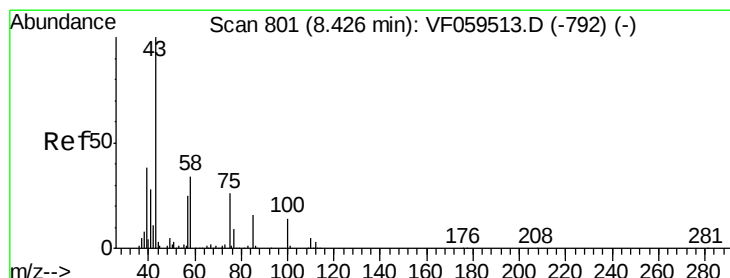
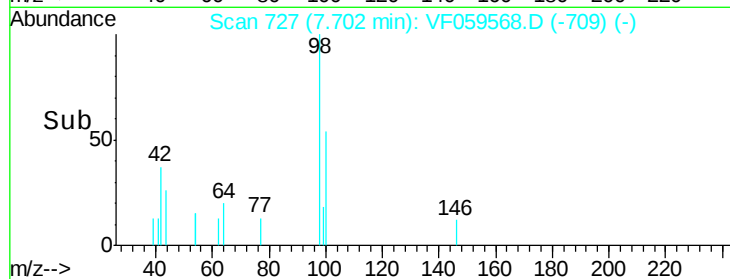
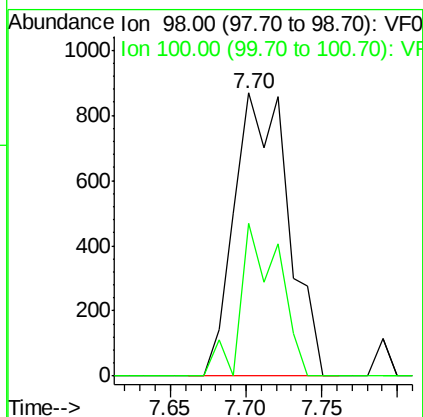
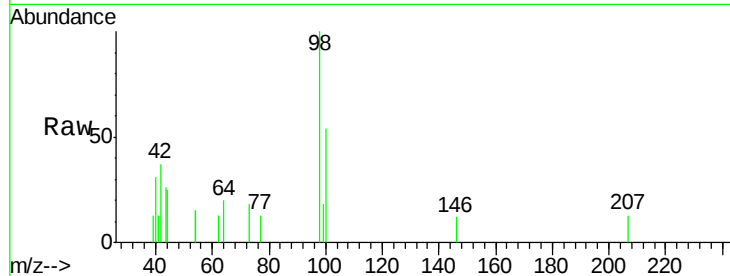




#50
Toluene-d8
Concen: 15.155 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

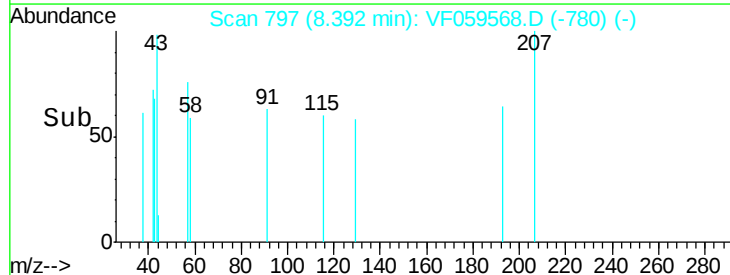
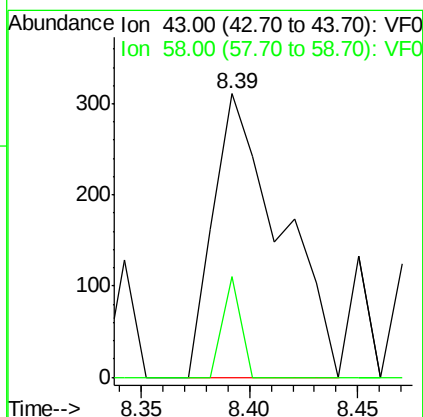
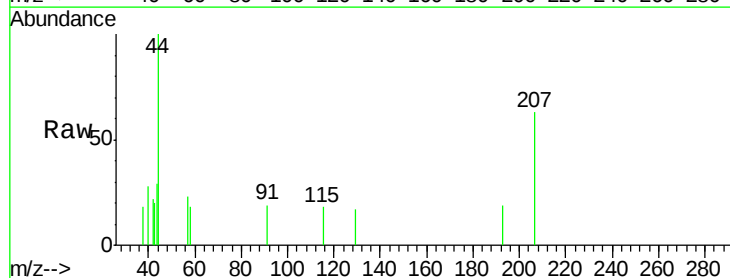
Instrument :
MSVOA_F
ClientSampled :

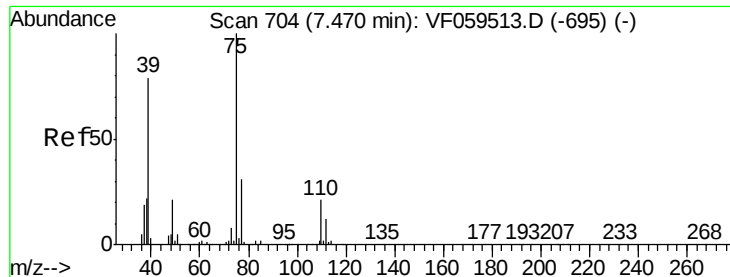
Tot Ion: 98 Resp: 2158
Ion Ratio Lower Upper
98 100
100 54.0 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 20.284 ug/l
RT: 8.39 min Scan# 797
Delta R.T. -0.03 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion: 43 Resp: 675
Ion Ratio Lower Upper
43 100
58 35.4 27.4 41.2



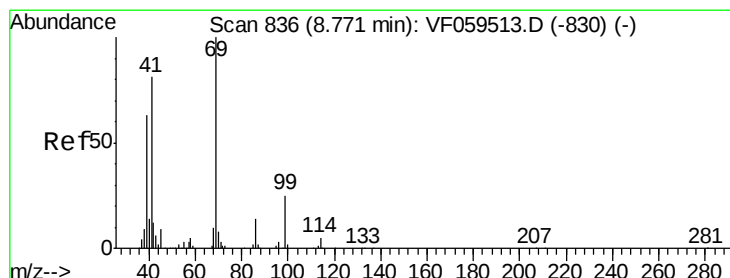
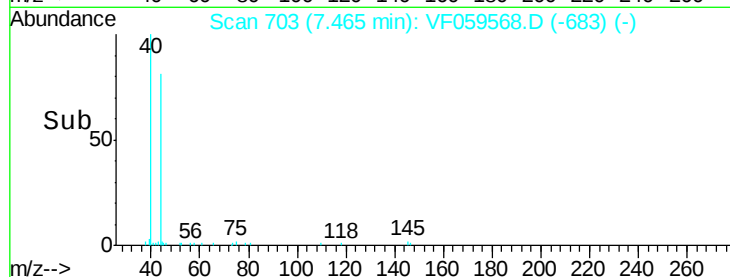
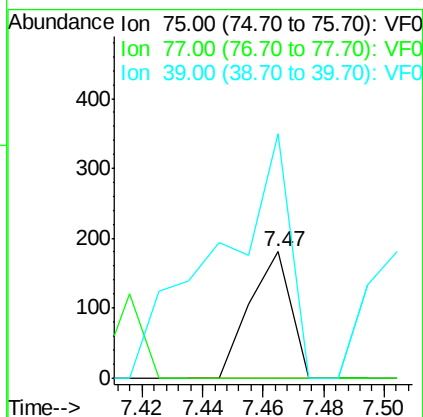
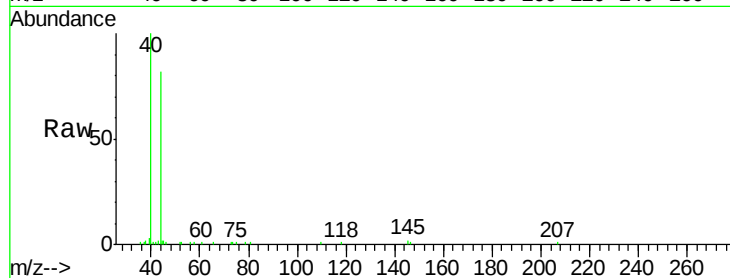


#54

cis-1,3-Dichloropropene
Concen: 2.238 ug/l
RT: 7.47 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampled :

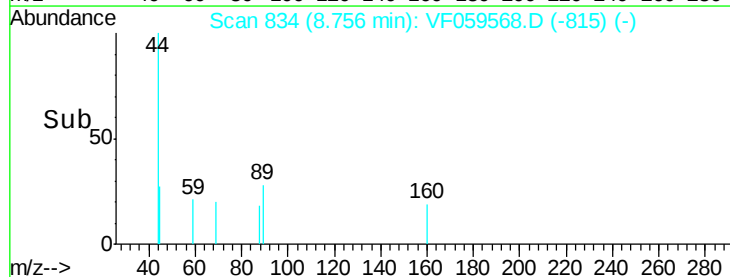
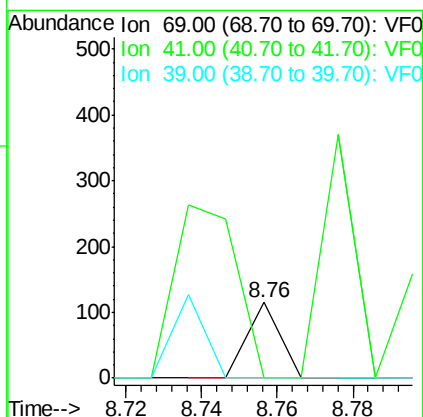
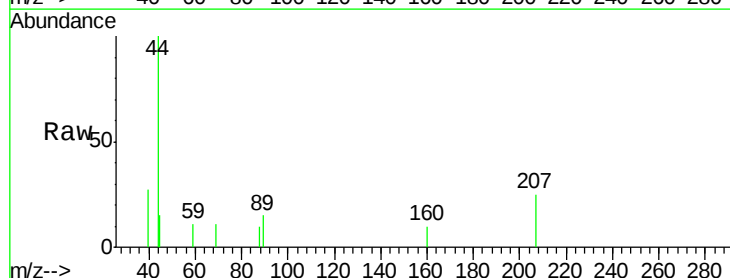
Tot Ion: 75 Resp: 169
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 193.9 63.8 95.6#

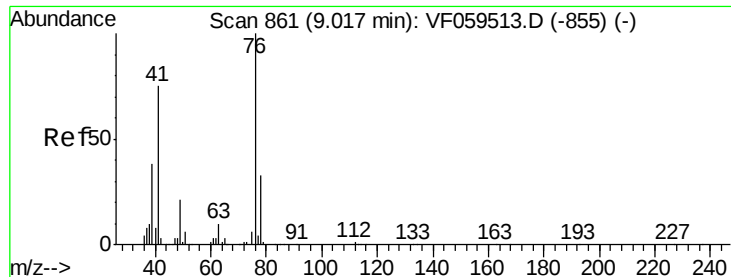


#56

Ethyl methacrylate
Concen: 1.540 ug/l
RT: 8.76 min Scan# 834
Delta R.T. -0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion: 69 Resp: 68
Ion Ratio Lower Upper
69 100
41 0.0 65.4 98.2#
39 242.6 51.0 76.4#





#57

1,3-Dichloropropane

Concen: 2.509 ug/l

RT: 8.85 min Scan# 843

Delta R.T. -0.17 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

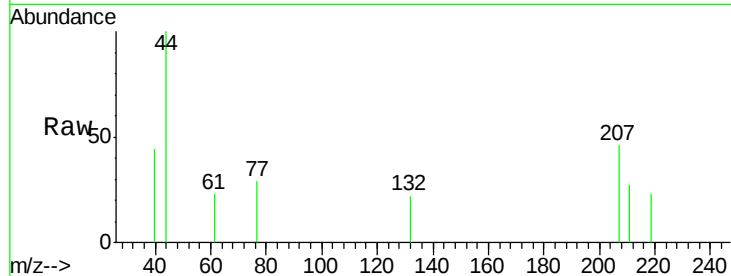
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 158

Ion Ratio Lower Upper

76 100

78 0.0 26.4 39.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

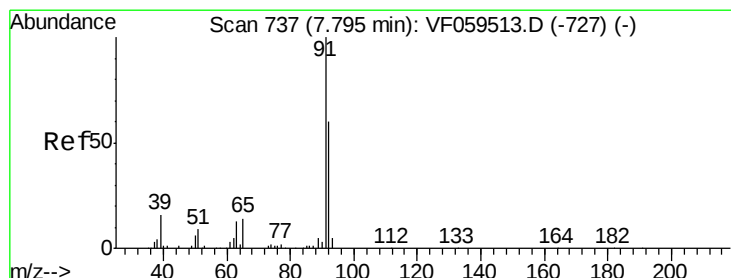
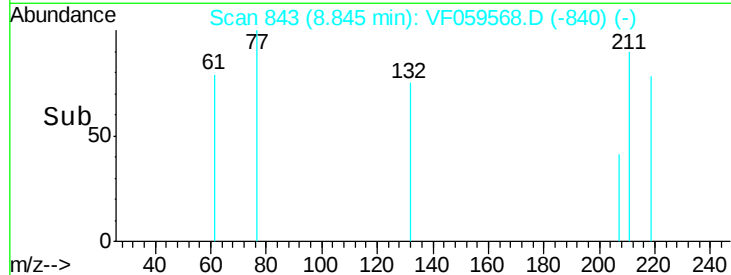
8.85

100

50

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 19.490 ug/l

RT: 7.67 min Scan# 724

Delta R.T. -0.12 min

Lab File: VF059568.D

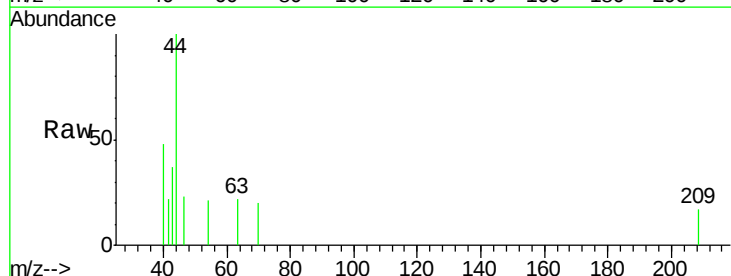
Acq: 19 Jul 2018 21:24

Tgt Ion: 63 Resp: 76

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

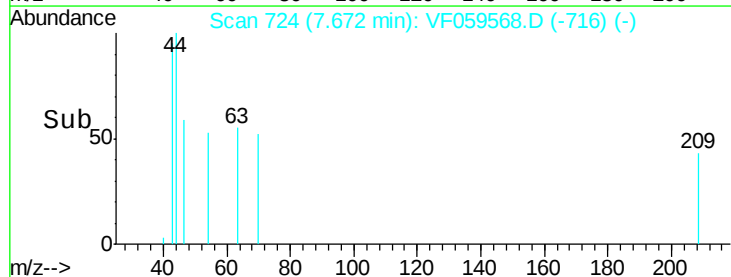
7.67

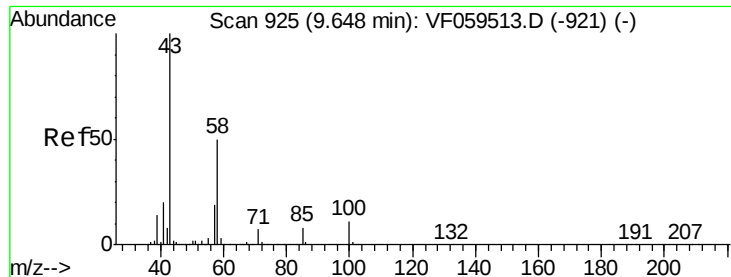
100

50

0

Time-->

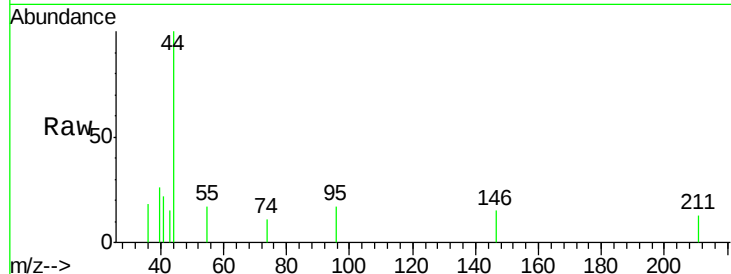




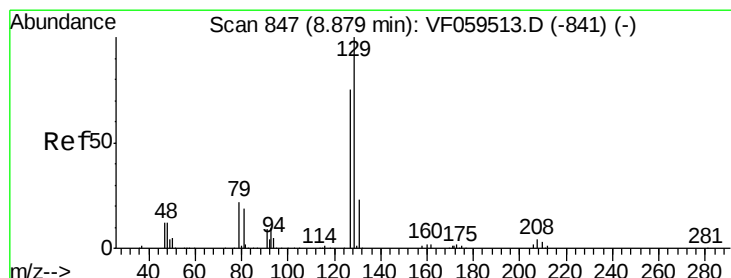
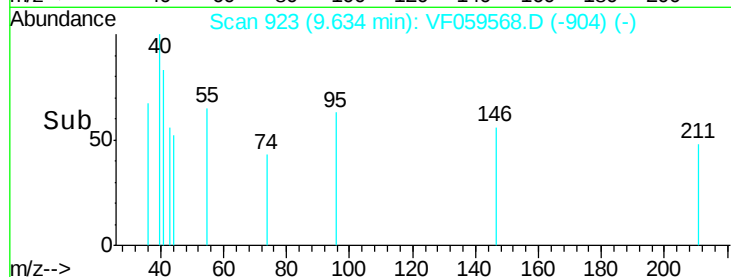
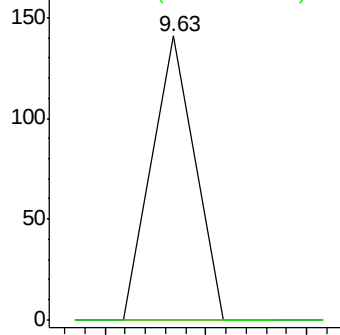
#59
2-Hexanone
Concen: 3.300 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#

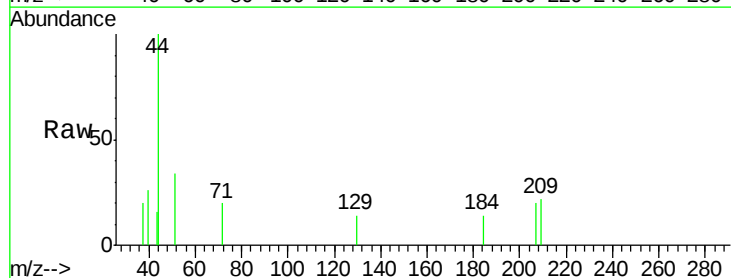


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

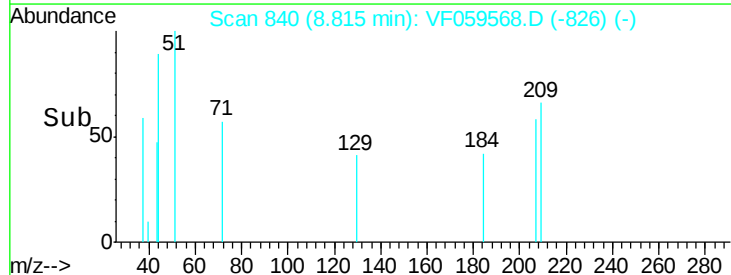
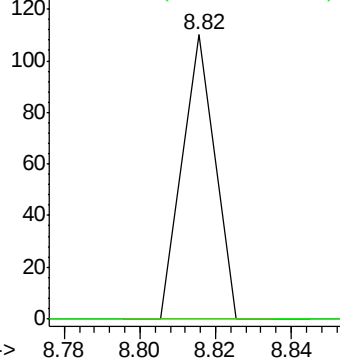


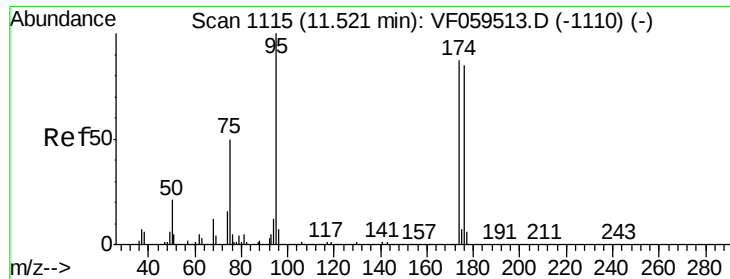
#60
Dibromochloromethane
Concen: 1.083 ug/l
RT: 8.82 min Scan# 840
Delta R.T. -0.06 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion: 129 Resp: 65
Ion Ratio Lower Upper
129 100
127 0.0 37.6 112.8#



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#62

4-Bromofluorobenzene

Concen: 5.449 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampleId :

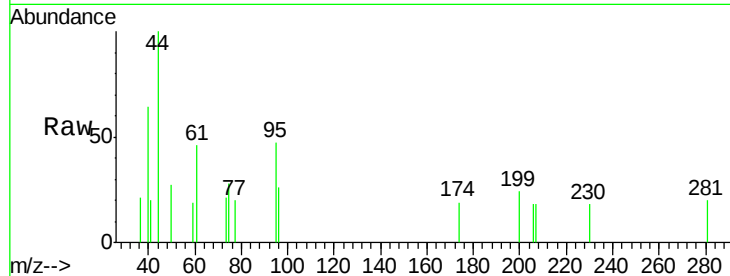
Tot Ion: 95 Resp: 407

Ion Ratio Lower Upper

95 100

174 39.4 0.0 174.4

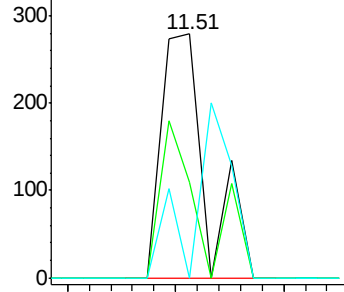
176 0.0 0.0 169.4



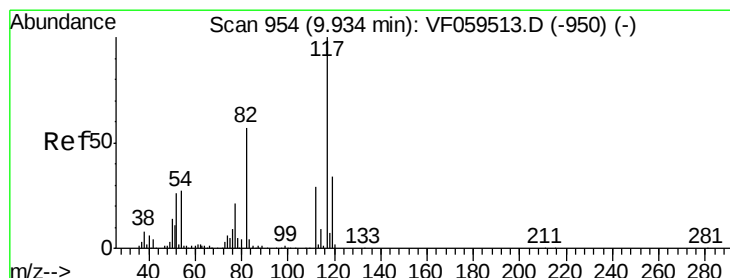
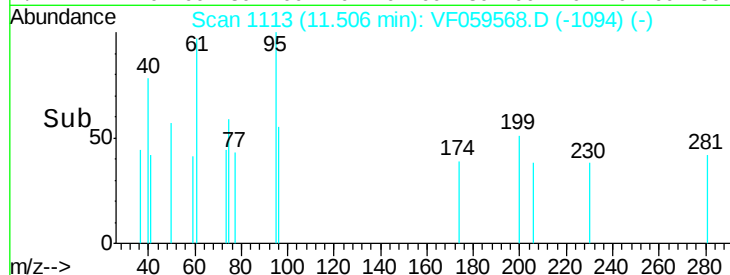
Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time--> 11.45 11.50 11.55



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

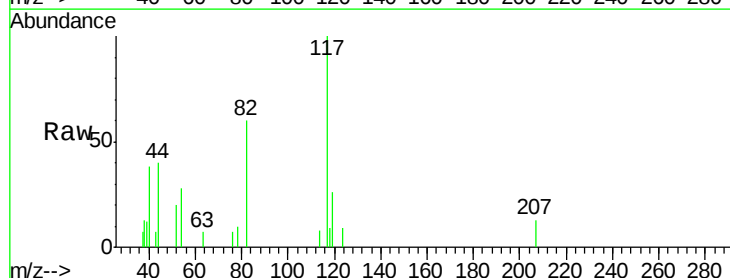
Tgt Ion: 117 Resp: 3134

Ion Ratio Lower Upper

117 100

82 59.7 46.1 69.1

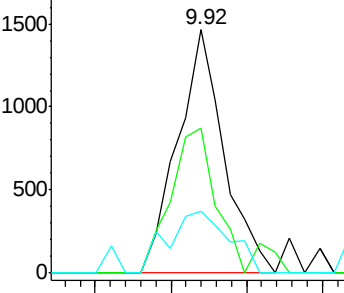
119 25.6 27.2 40.8#



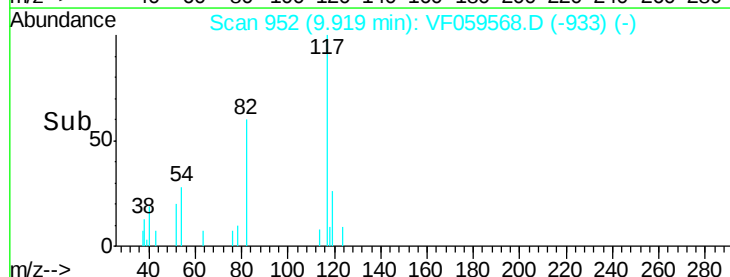
Abundance Ion 117.00 (116.70 to 117.70): V

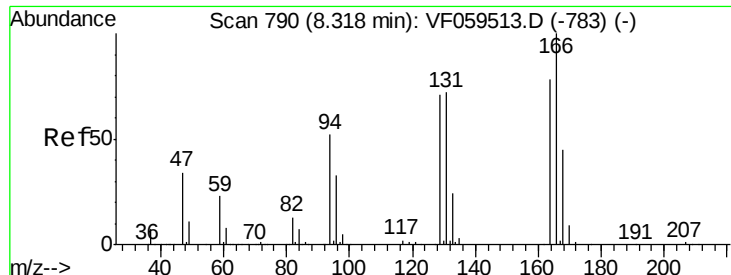
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



Time--> 9.85 9.90 9.95 10.00

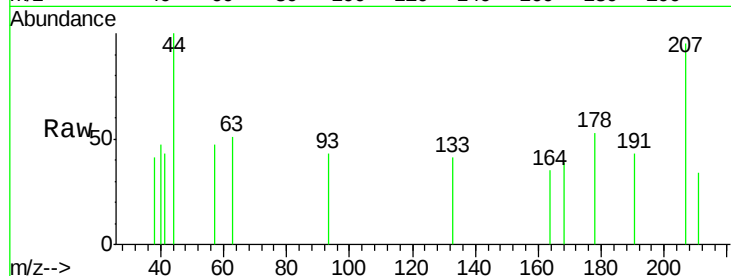




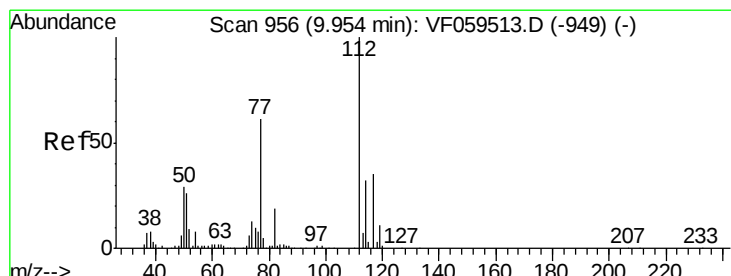
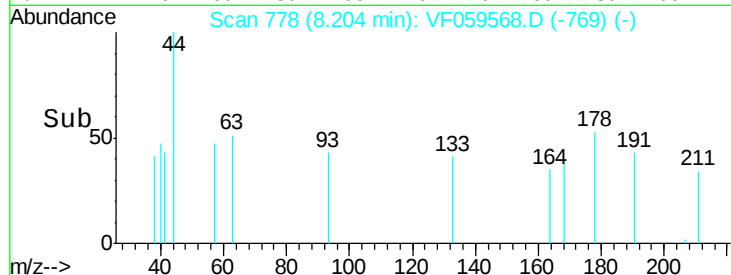
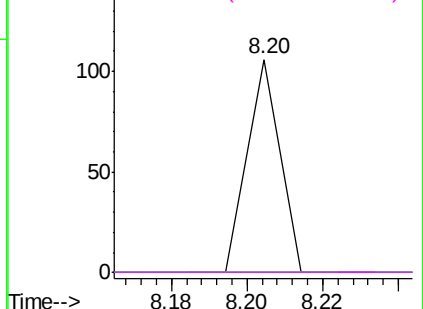
#64
Tetrachloroethene
Concen: 2.699 ug/l
RT: 8.20 min Scan# 778
Delta R.T. -0.11 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:164 Resp: 63
Ion Ratio Lower Upper
164 100
166 0.0 102.3 153.5#
129 0.0 72.4 108.6#
131 0.0 73.7 110.5#

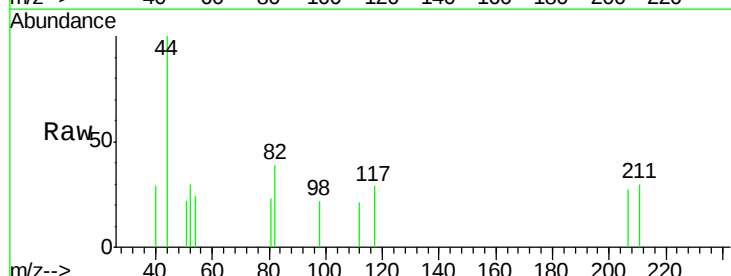


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

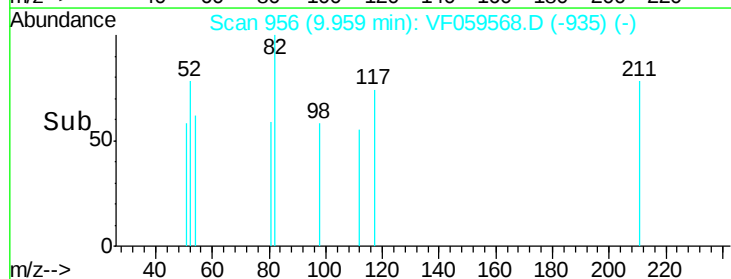
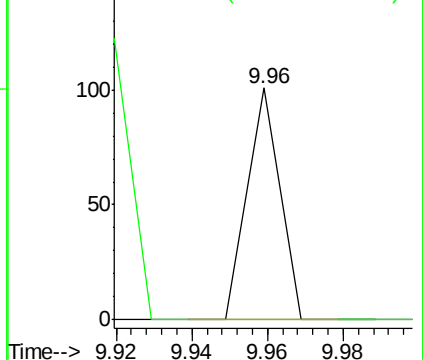


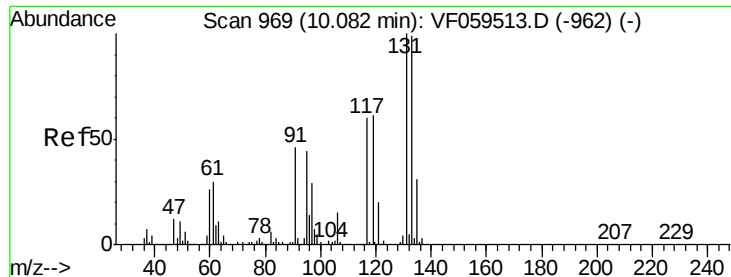
#65
Chlorobenzene
Concen: 1.021 ug/l
RT: 9.96 min Scan# 956
Delta R.T. 0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion:112 Resp: 60
Ion Ratio Lower Upper
112 100
114 0.0 25.4 38.2#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 5.155 ug/l

RT: 9.98 min Scan# 958

Delta R.T. -0.10 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampled :

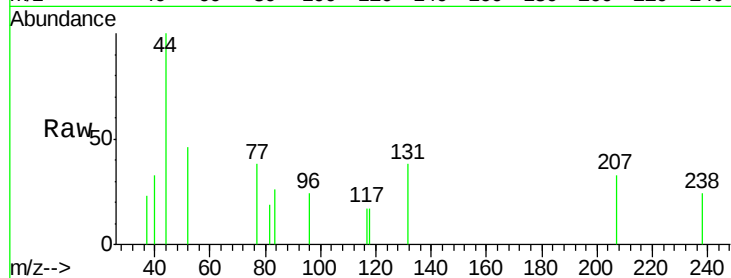
Tot Ion:131 Resp: 138

Ion Ratio Lower Upper

131 100

133 0.0 49.6 148.8#

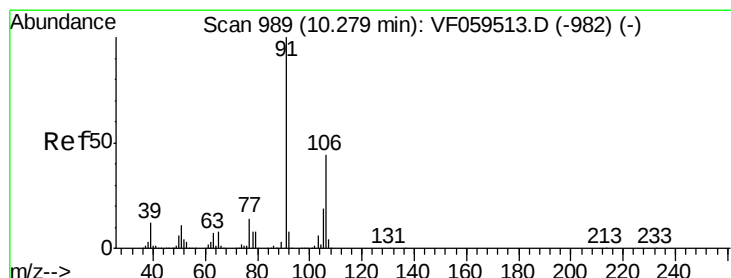
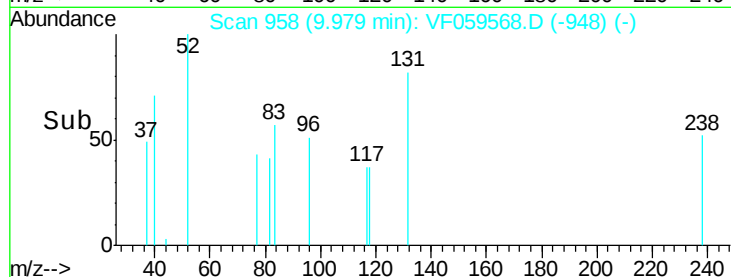
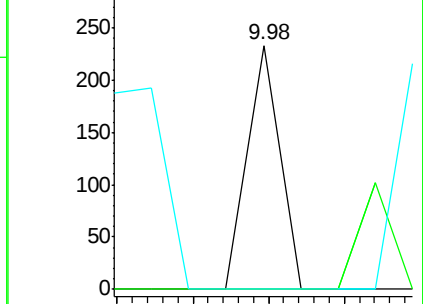
119 0.0 31.4 94.3#



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: 1.733 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.02 min

Lab File: VF059568.D

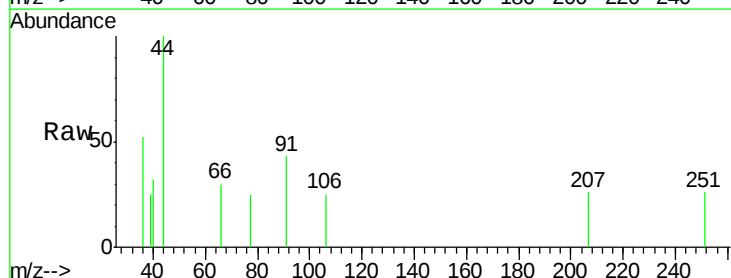
Acq: 19 Jul 2018 21:24

Tgt Ion:106 Resp: 64

Ion Ratio Lower Upper

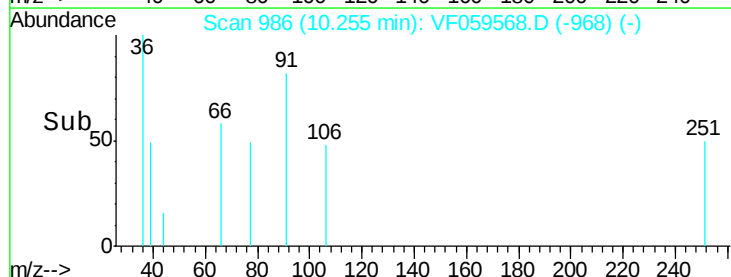
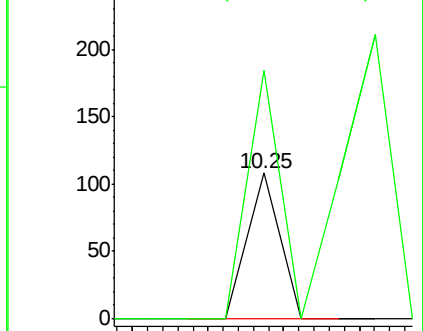
106 100

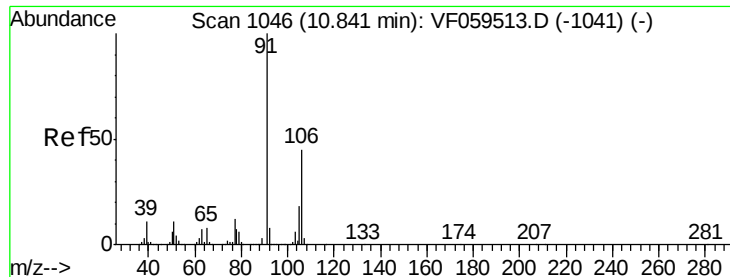
91 170.4 181.0 271.4#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

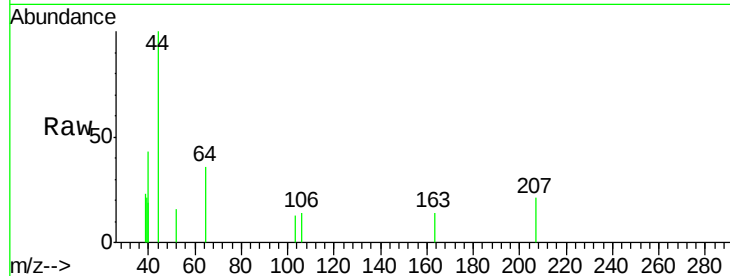




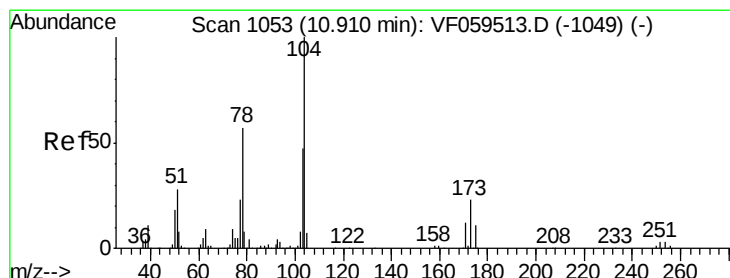
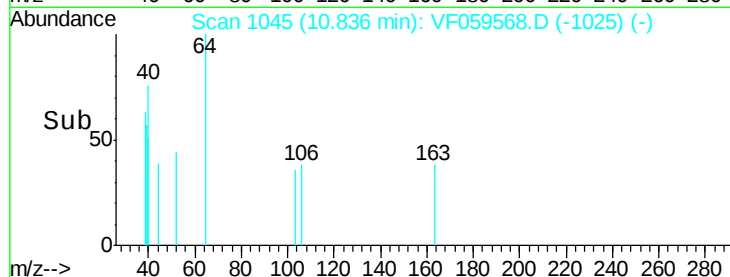
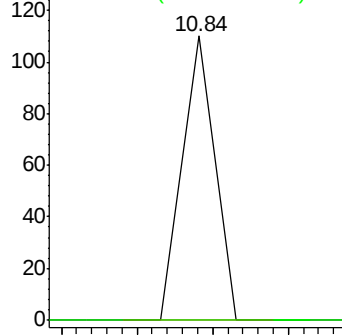
#69
o-Xylene
Concen: 1.653 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 0.0 112.3 336.9#

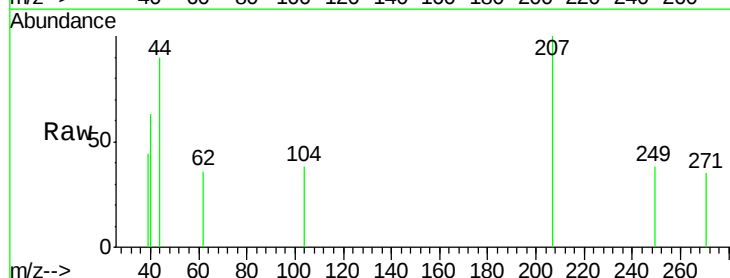


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

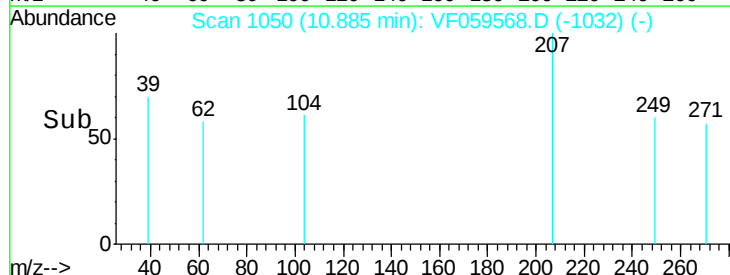
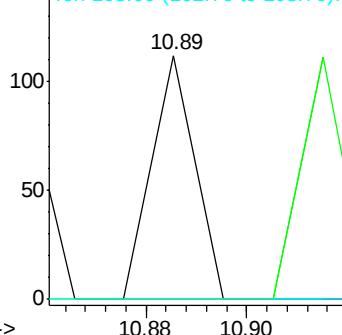


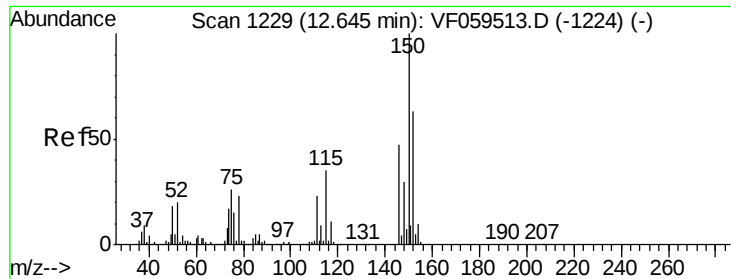
#70
Styrene
Concen: 1.092 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.02 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion:104 Resp: 66
Ion Ratio Lower Upper
104 100
78 0.0 45.7 68.5#
103 0.0 38.1 57.1#



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: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampleId :

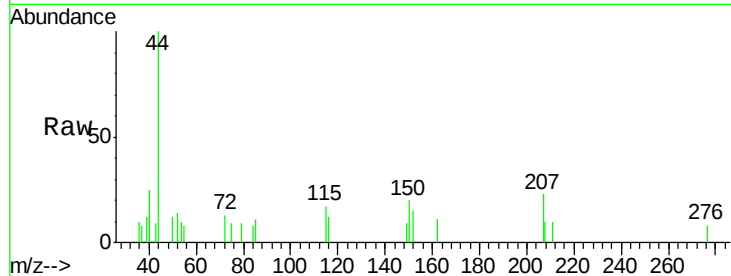
Tot Ion:152 Resp: 117

Ion Ratio Lower Upper

152 100

115 109.1 27.8 83.3#

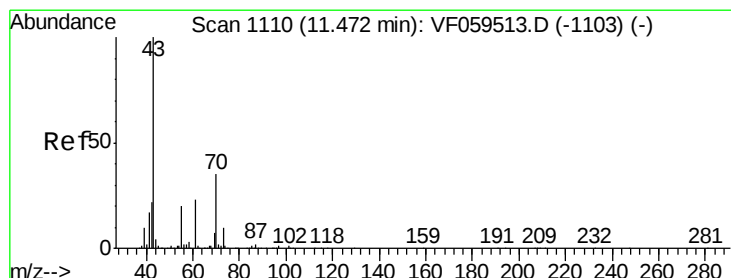
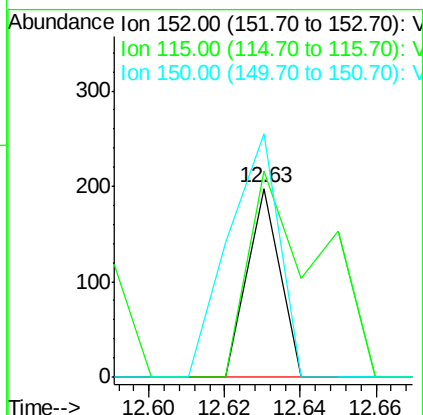
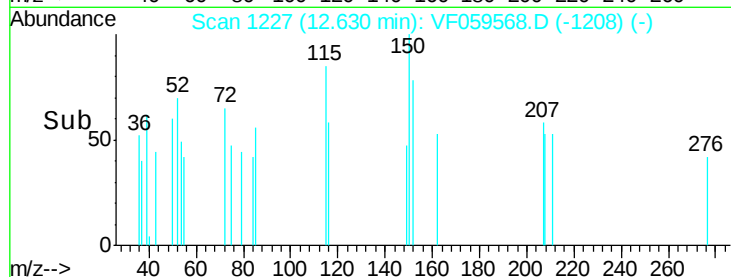
150 128.8 0.0 318.4



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-ethyl acetate

Concen: 66.399 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Tgt Ion: 43 Resp: 157

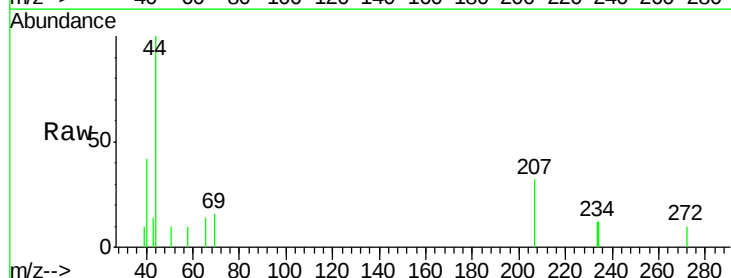
Ion Ratio Lower Upper

43 100

70 0.0 27.9 41.9#

55 0.0 16.2 24.2#

61 0.0 18.6 27.8#

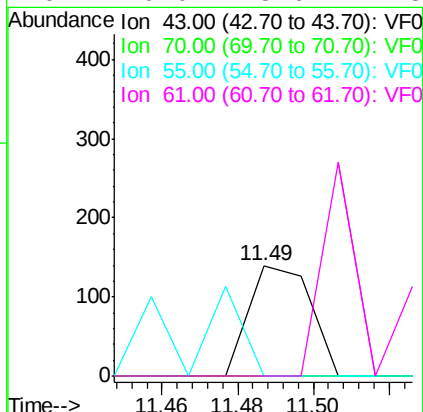
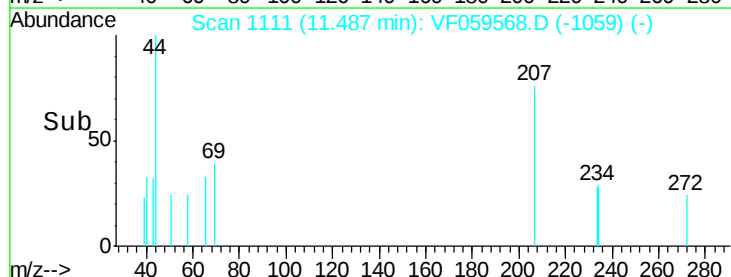


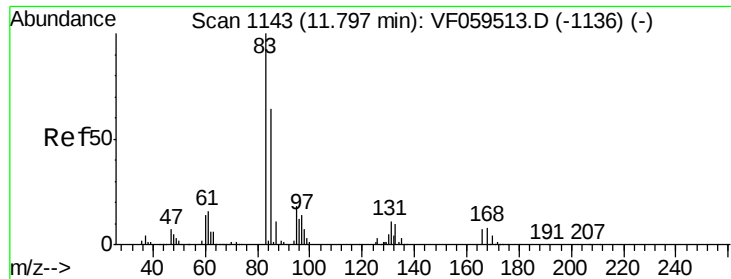
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 50.923 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. -0.10 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampled :

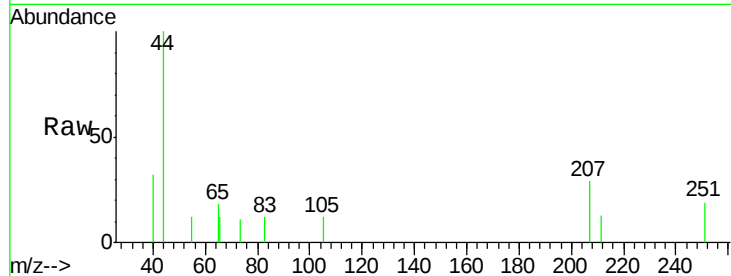
Tot Ion: 83 Resp: 82

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

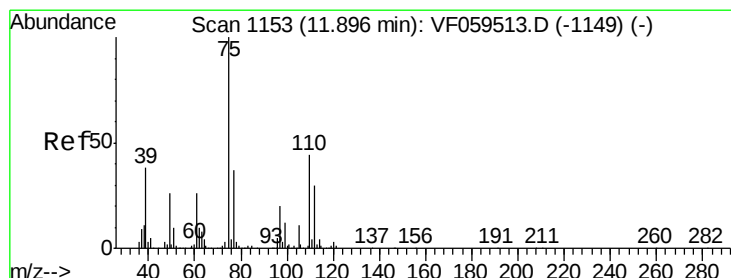
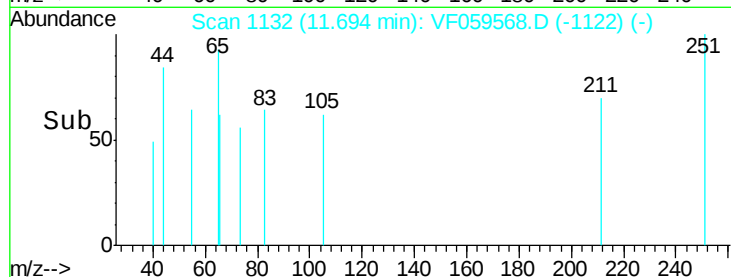
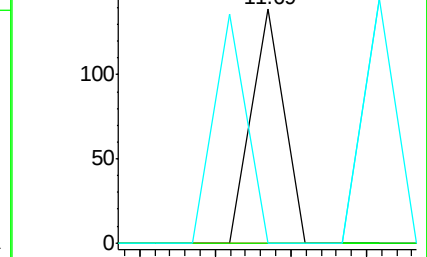
85 0.0 31.9 95.9#



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



#76

1,2,3-Trichloropropane

Concen: 95.821 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059568.D

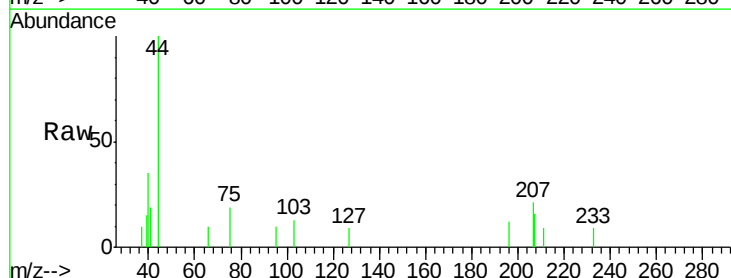
Acq: 19 Jul 2018 21:24

Tgt Ion: 75 Resp: 126

Ion Ratio Lower Upper

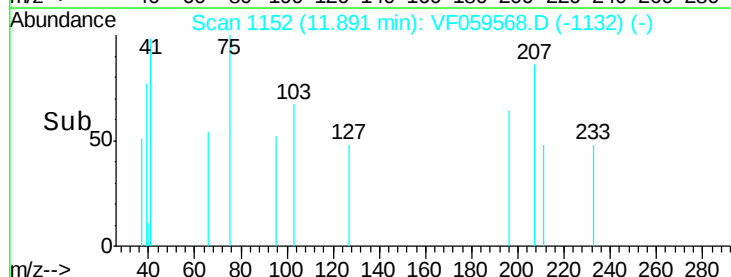
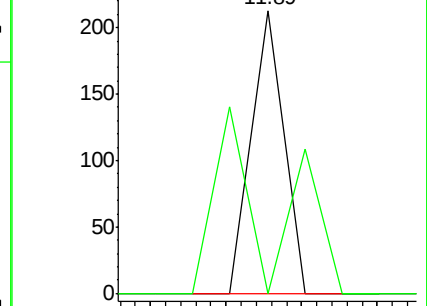
75 100

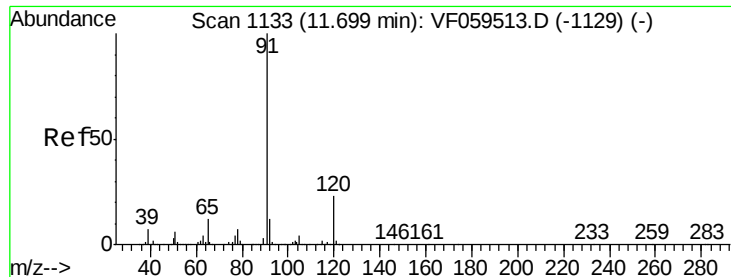
77 0.0 18.7 56.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 7.557 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

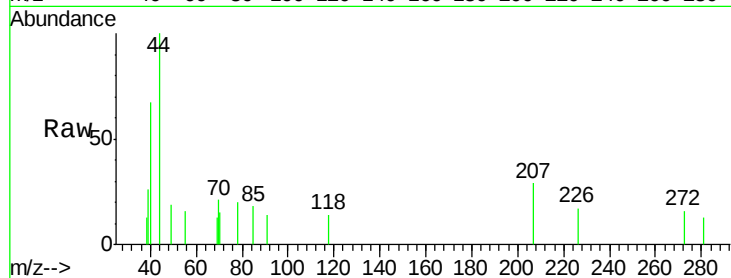
ClientSampleId :

Tot Ion: 91 Resp: 64

Ion Ratio Lower Upper

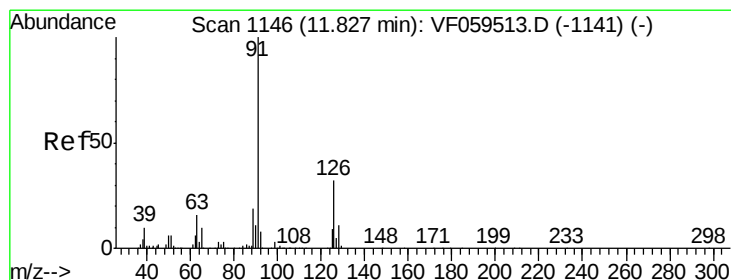
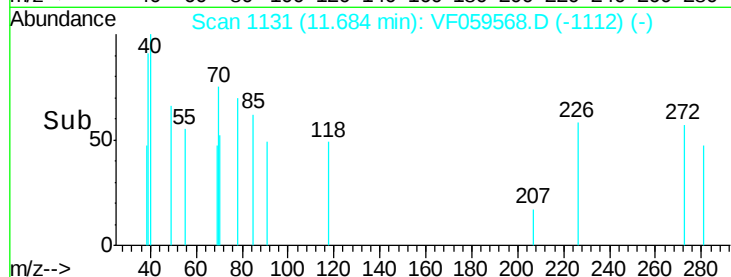
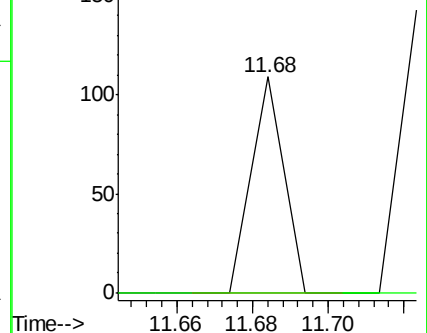
91 100

120 0.0 11.3 33.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 14.761 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.04 min

Lab File: VF059568.D

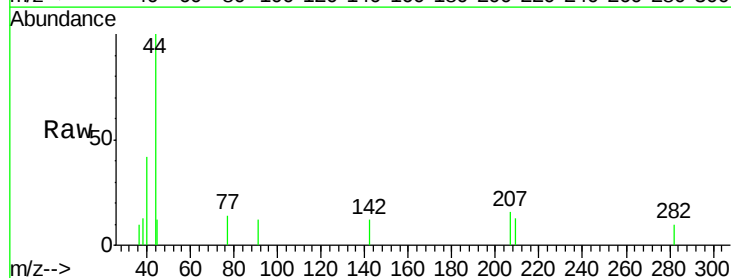
Acq: 19 Jul 2018 21:24

Tgt Ion: 91 Resp: 77

Ion Ratio Lower Upper

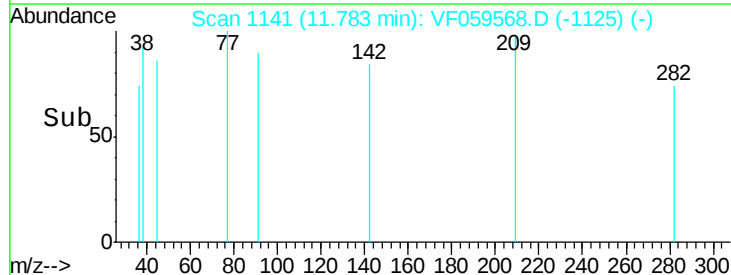
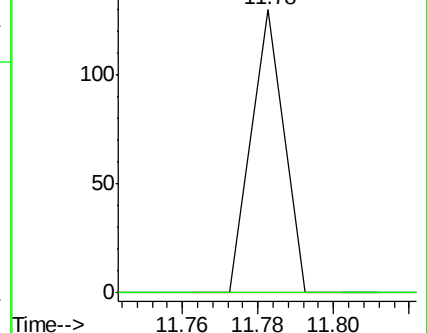
91 100

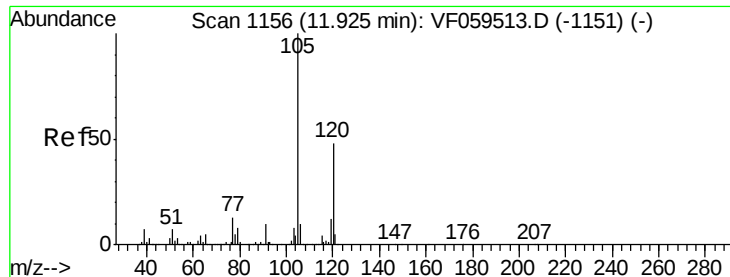
126 0.0 15.7 47.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 9.699 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

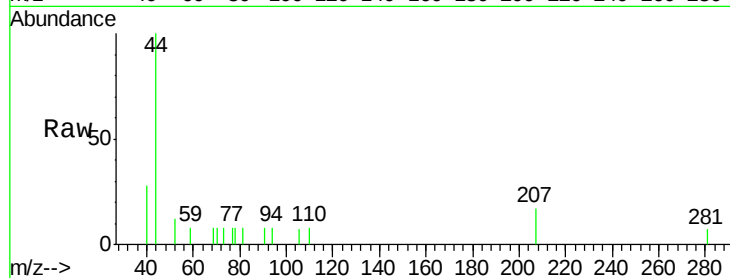
ClientSampleId :

Tot Ion:105 Resp: 60

Ion Ratio Lower Upper

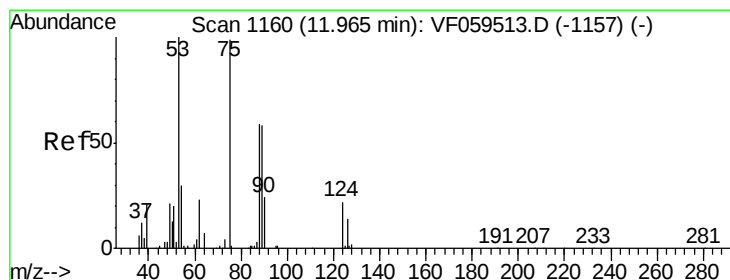
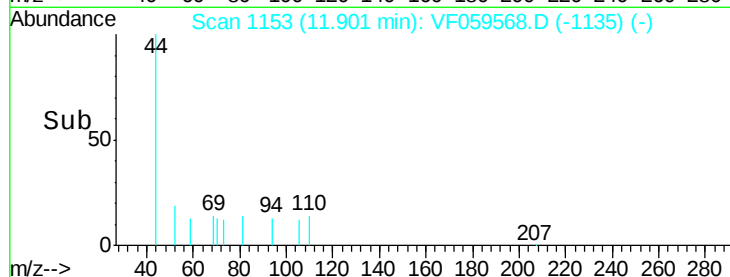
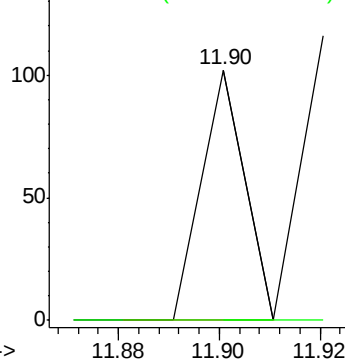
105 100

120 0.0 24.1 72.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 359.592 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

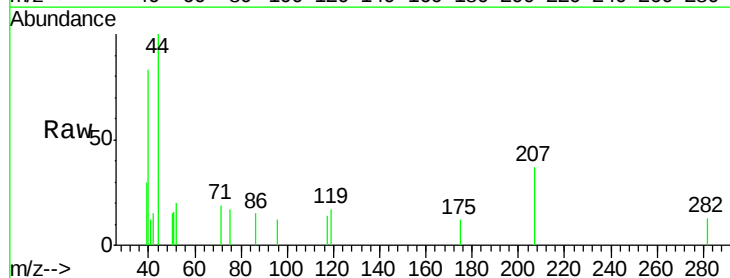
Tgt Ion: 75 Resp: 216

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

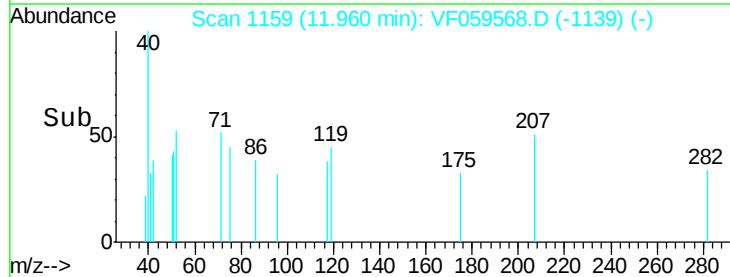
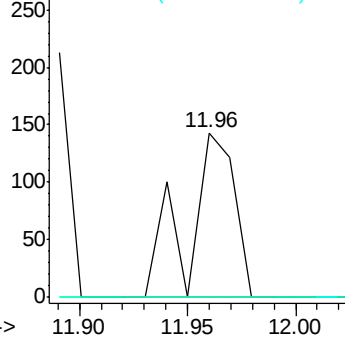
89 0.0 48.2 72.4#

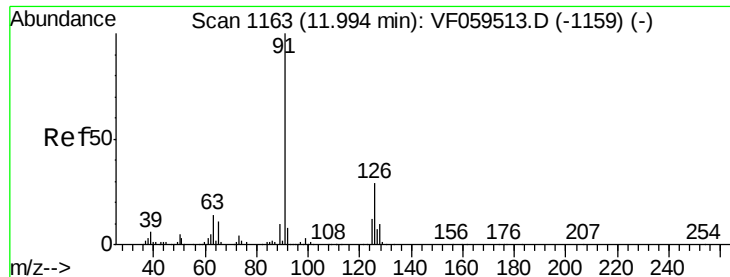


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#82

4-Chlorotoluene

Concen: 10.436 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.05 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

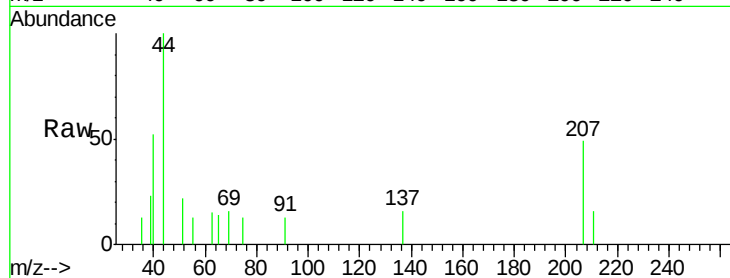
ClientSampled :

Tot Ion: 91 Resp: 61

Ion Ratio Lower Upper

91 100

126 0.0 14.4 43.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.94

100

80

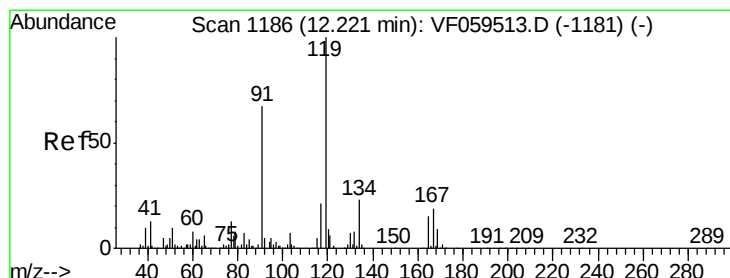
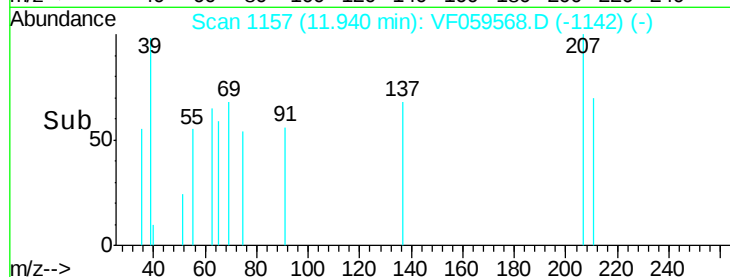
60

40

20

0

Time--> 11.92 11.94 11.96



#83

tert-Butylbenzene

Concen: 10.442 ug/l

RT: 12.21 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

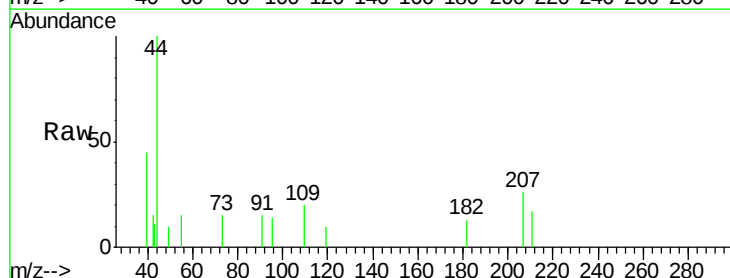
Tgt Ion: 119 Resp: 62

Ion Ratio Lower Upper

119 100

91 151.4 33.5 100.5#

134 0.0 11.3 33.8#



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

200

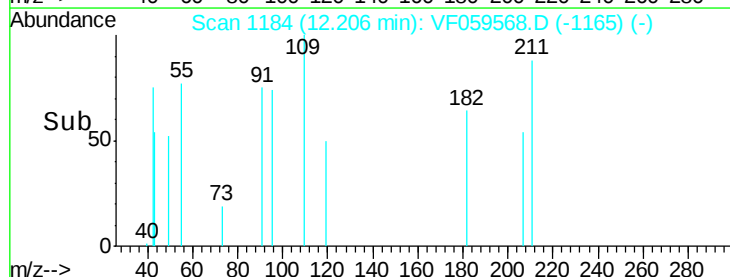
150

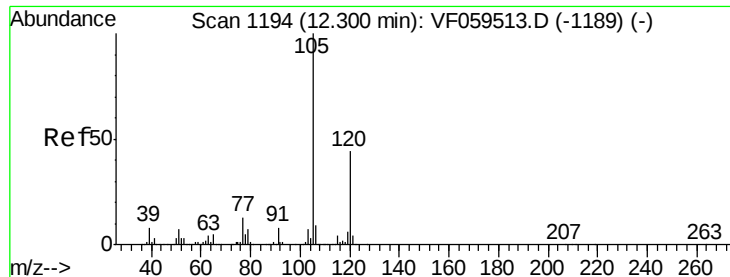
100

50

0

Time--> 12.18 12.20 12.22





#84

1,2,4-Trimethylbenzene

Concen: 9.584 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. 0.06 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

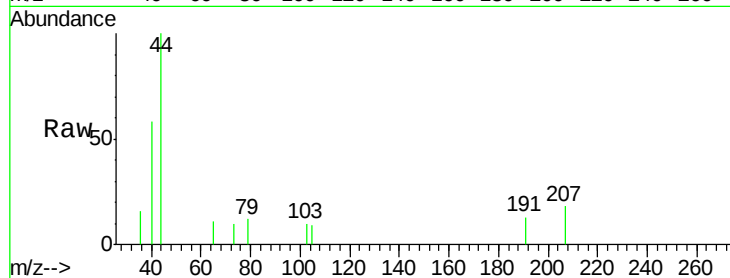
ClientSampled :

Tot Ion:105 Resp: 61

Ion Ratio Lower Upper

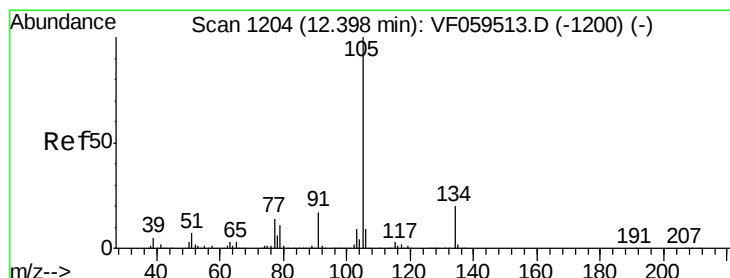
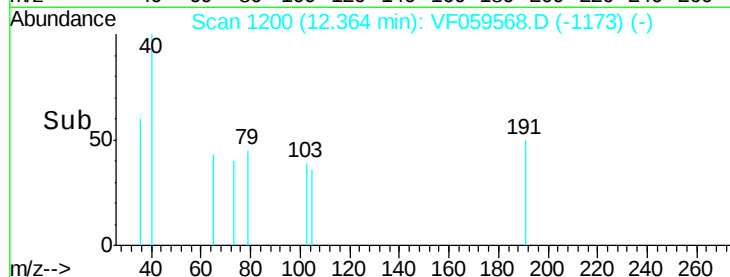
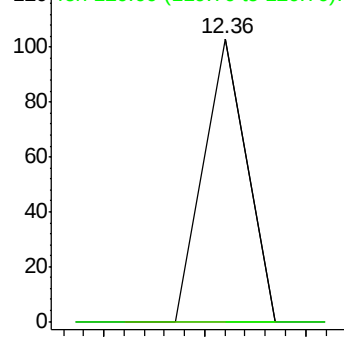
105 100

120 0.0 22.5 67.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 12.316 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VF059568.D

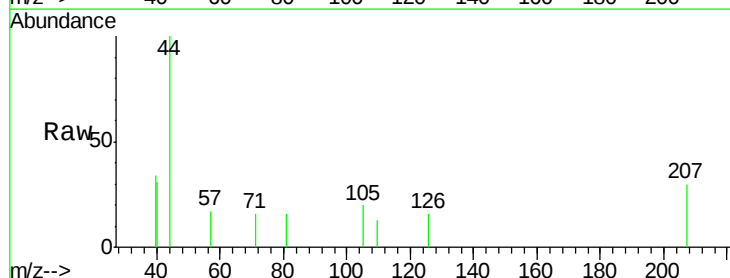
Acq: 19 Jul 2018 21:24

Tgt Ion:105 Resp: 93

Ion Ratio Lower Upper

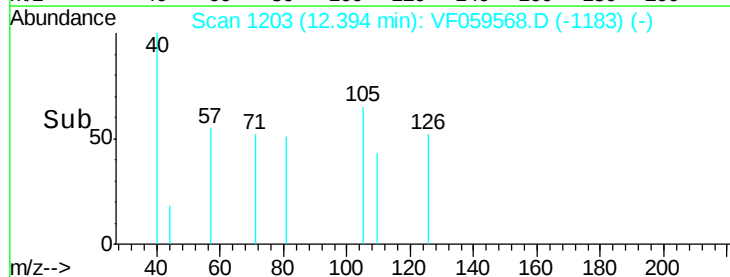
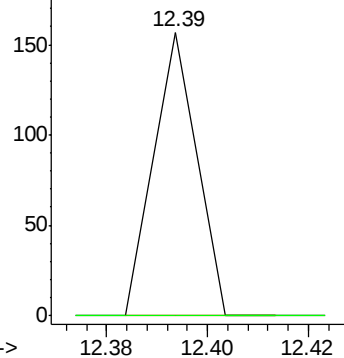
105 100

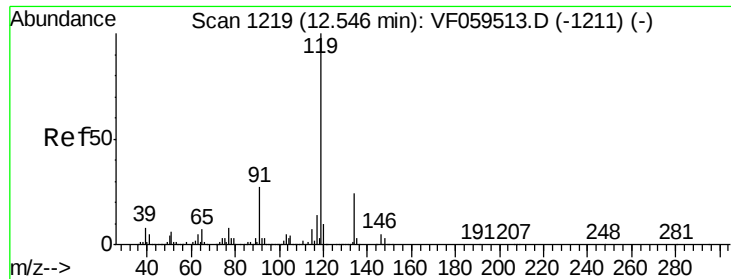
134 0.0 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

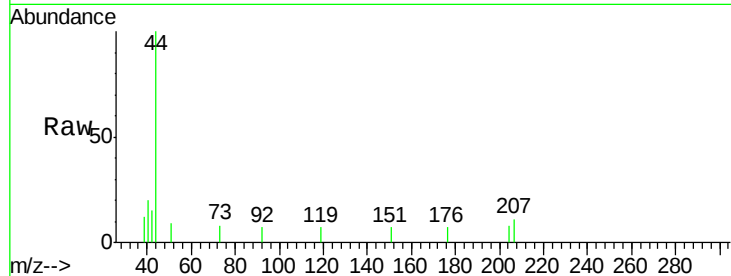




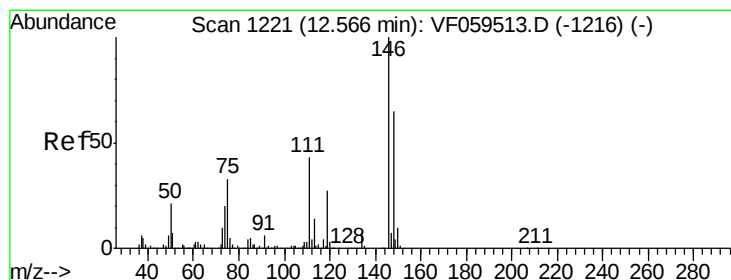
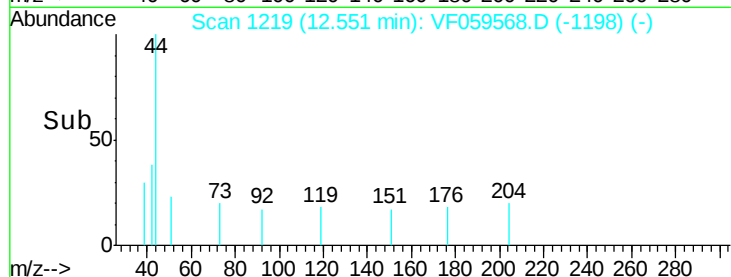
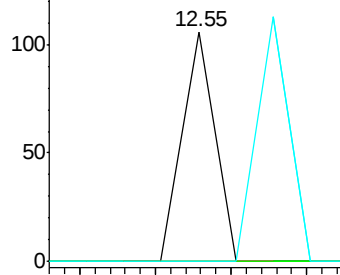
#86
p-Isopropyltoluene
Concen: 9.589 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.0	36.0#
91	0.0	13.5	40.4#

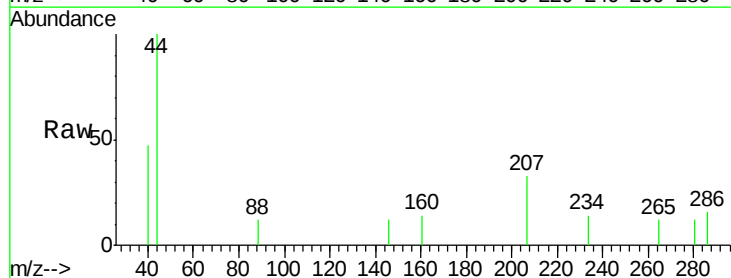


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

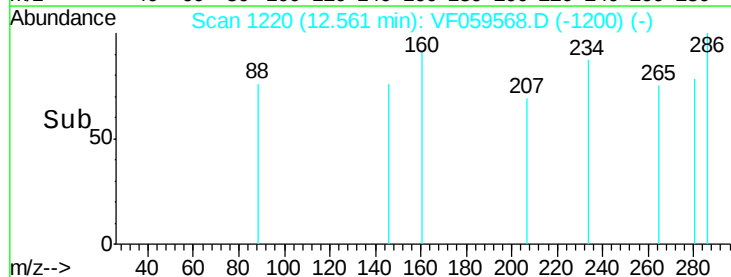
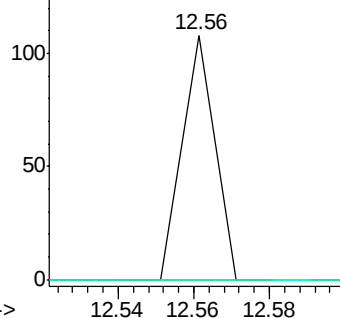


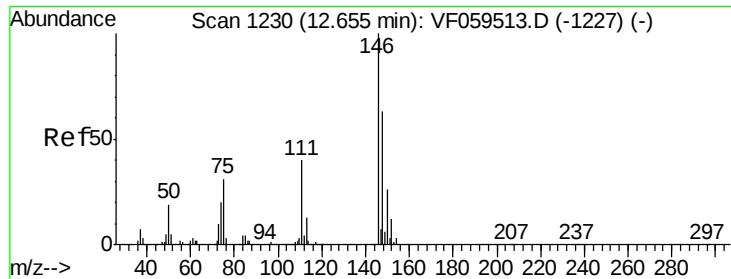
#87
1,3-Dichlorobenzene
Concen: 18.027 ug/l
RT: 12.56 min Scan# 1220
Delta R.T. -0.00 min
Lab File: VF059568.D
Acq: 19 Jul 2018 21:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.4	64.3#
148	0.0	32.7	98.1#



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





#88

1,4-Dichlorobenzene

Concen: 19.724 ug/l

RT: 12.72 min Scan# 1236

Delta R.T. 0.06 min

Lab File: VF059568.D

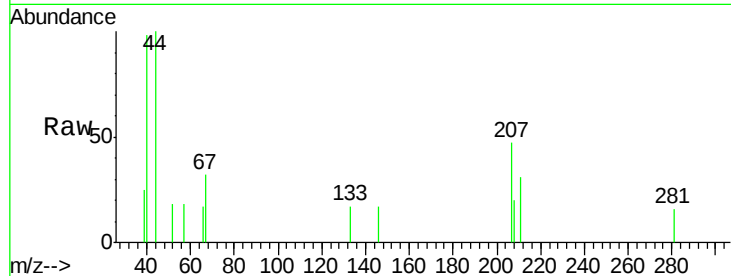
Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampleId :

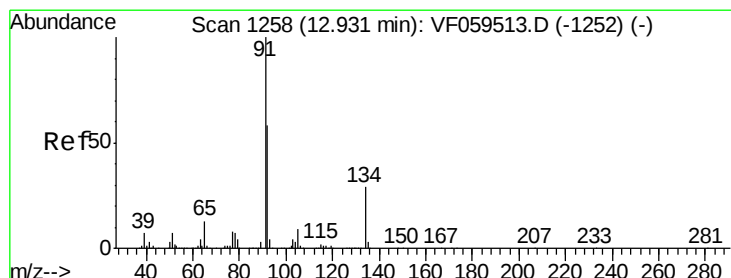
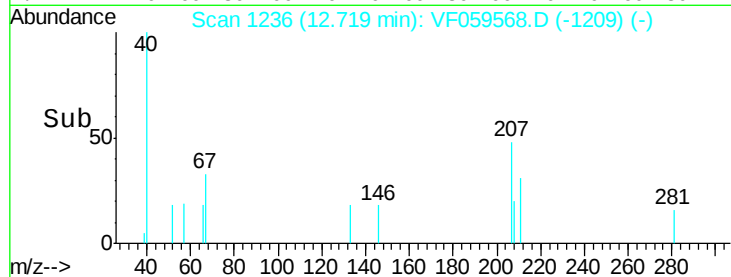
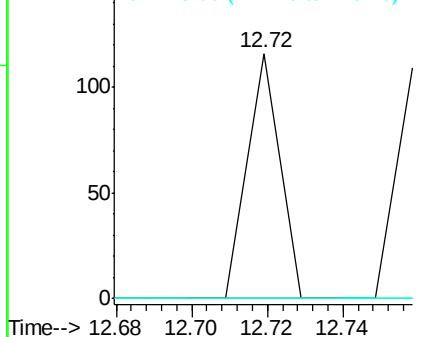
Tot Ion:	146	Resp:	69
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.0	59.9#
148	0.0	31.5	94.5#



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



#89

n-Butylbenzene

Concen: 10.084 ug/l

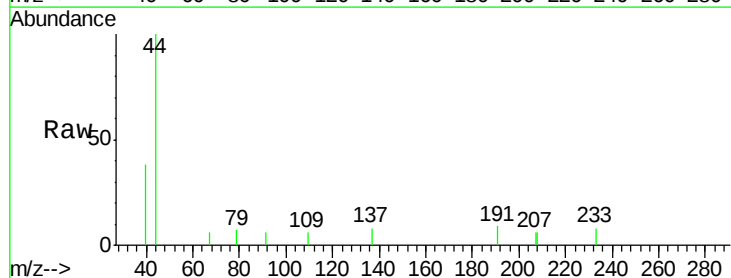
RT: 12.98 min Scan# 1262

Delta R.T. 0.04 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

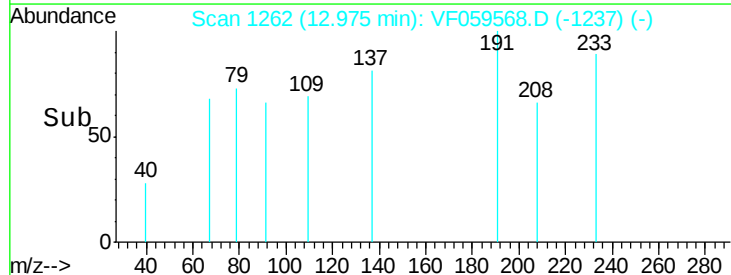
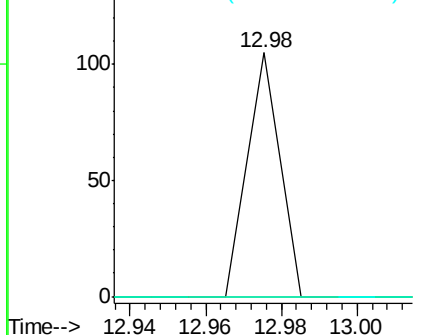
Tgt Ion:	91	Resp:	62
Ion	Ratio	Lower	Upper
91	100		
92	0.0	29.1	87.3#
134	0.0	14.3	42.9#

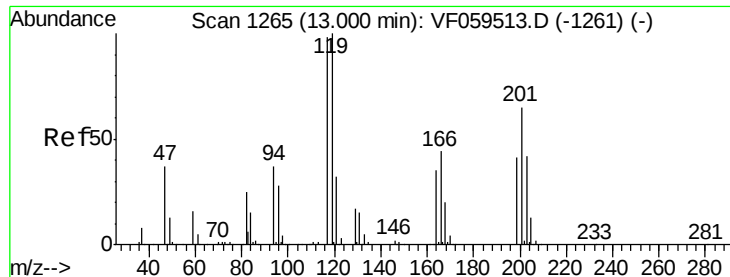


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 52.266 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

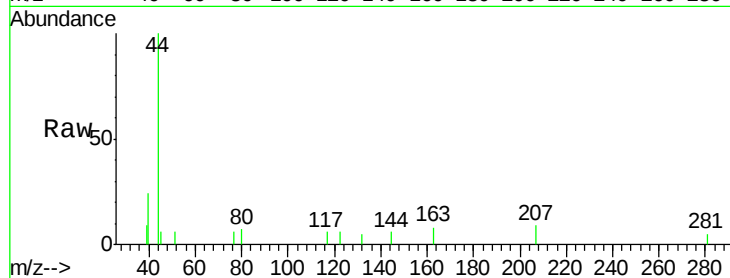
ClientSampleId :

Tot Ion:117 Resp: 78

Ion Ratio Lower Upper

117 100

201 0.0 32.6 98.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

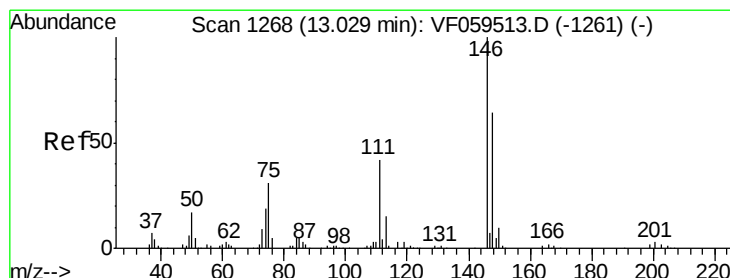
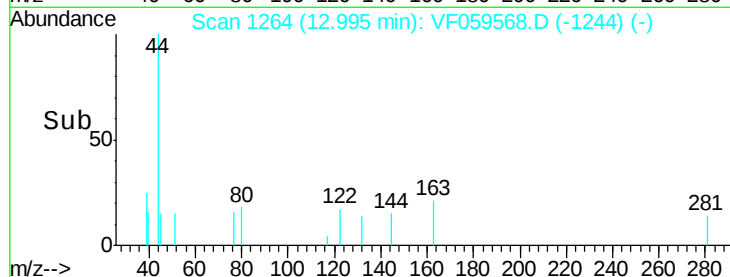
12.99

100

50

0

Time--> 12.96 12.98 13.00 13.02



#91

1,2-Dichlorobenzene

Concen: 23.267 ug/l

RT: 12.90 min Scan# 1254

Delta R.T. -0.13 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

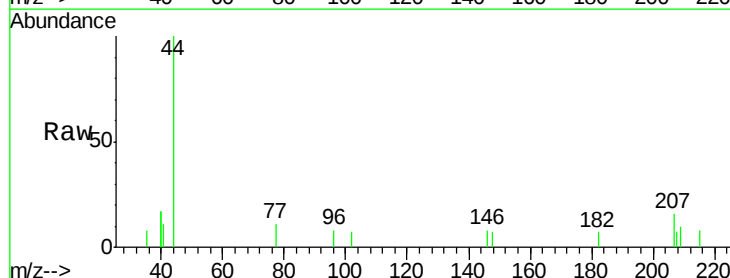
Tgt Ion:146 Resp: 79

Ion Ratio Lower Upper

146 100

111 0.0 21.1 63.1#

148 0.0 32.3 96.8#



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

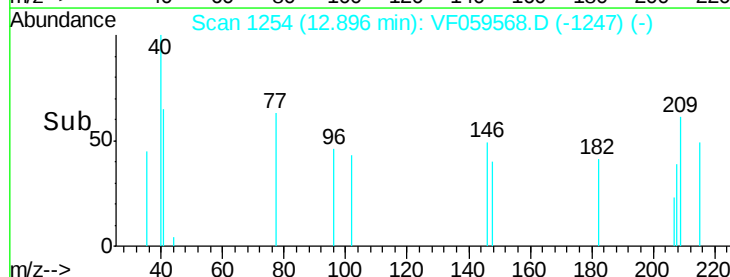
12.90

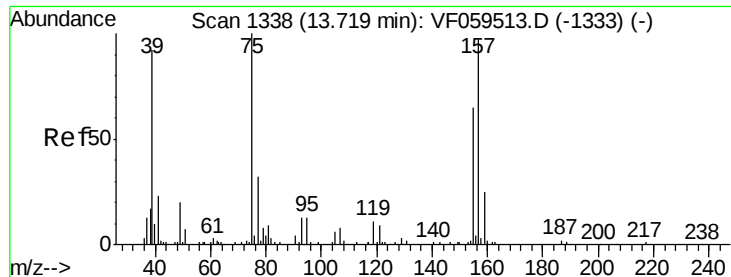
100

50

0

Time--> 12.86 12.88 12.90 12.92





#92

1,2-Dibromo-3-Chloropropane

Concen: 208.327 ug/l

RT: 13.85 min Scan# 1351

Delta R.T. 0.13 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampleId :

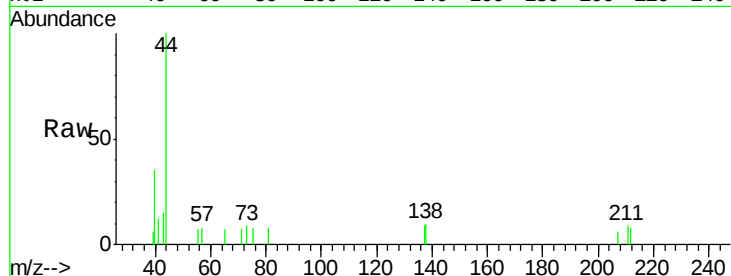
Tot Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

155 0.0 32.8 98.3#

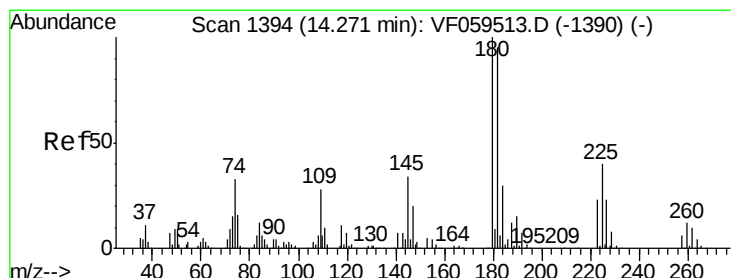
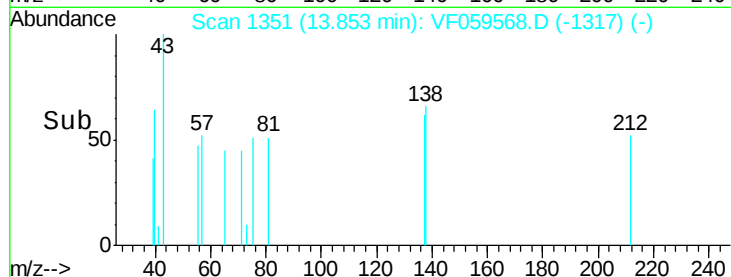
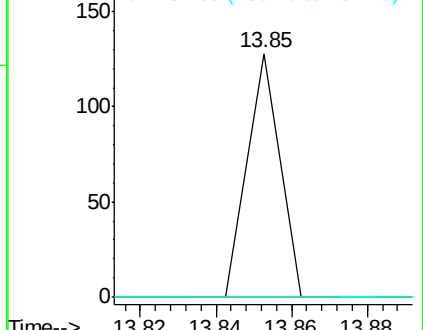
157 0.0 48.5 145.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 38.775 ug/l

RT: 14.25 min Scan# 1391

Delta R.T. -0.02 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

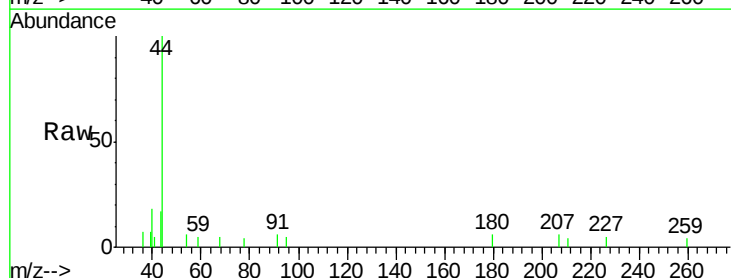
Tgt Ion: 180 Resp: 80

Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.5#

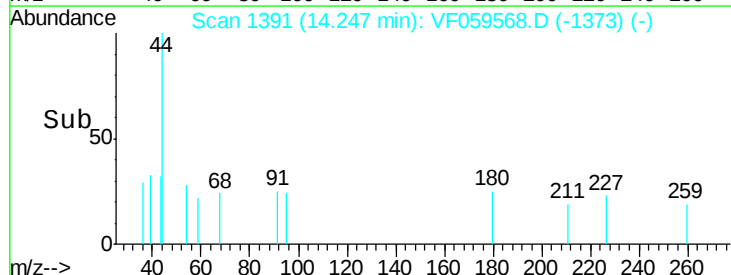
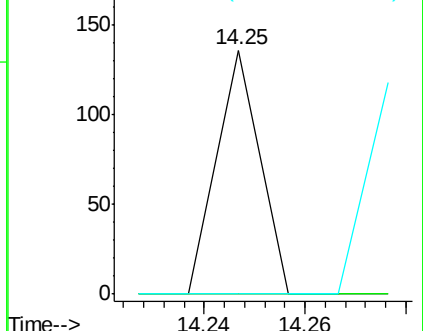
145 0.0 17.3 51.7#

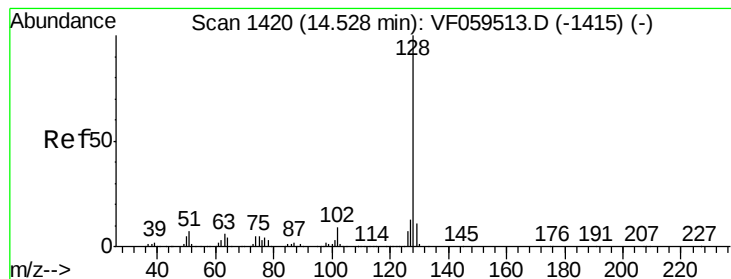


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#95

Naphthalene

Concen: 102.892 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

Instrument :

MSVOA_F

ClientSampled :

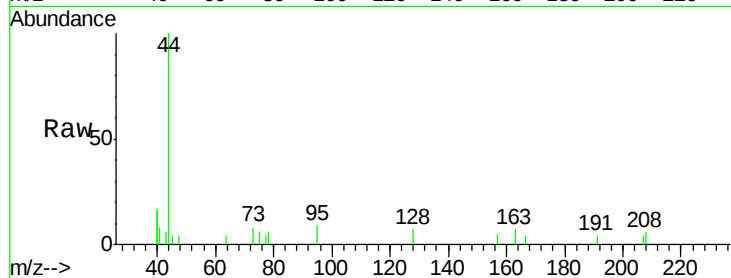
Tot Ion:128 Resp: 441

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

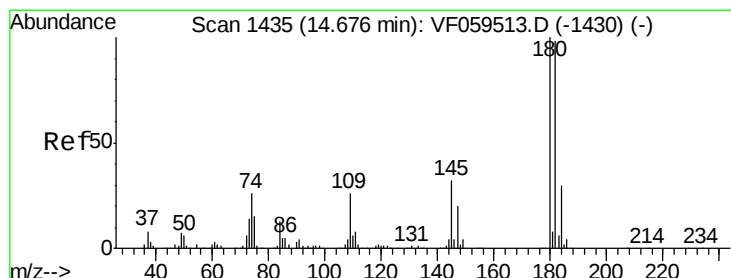
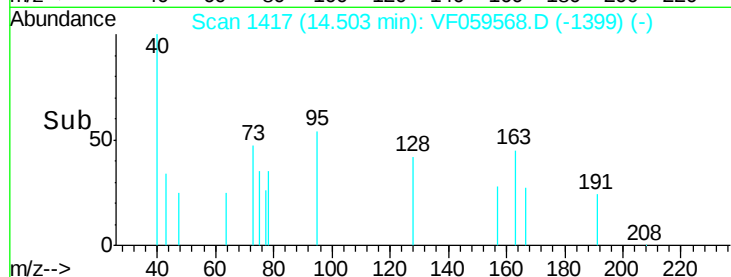
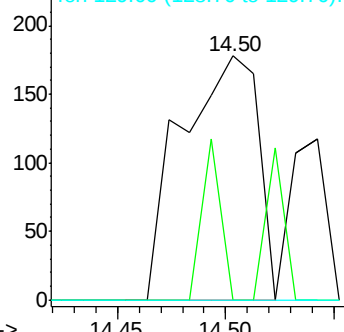
129 0.0 9.0 13.4#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 69.737 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.04 min

Lab File: VF059568.D

Acq: 19 Jul 2018 21:24

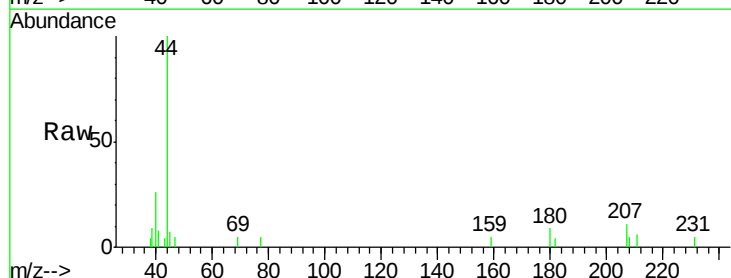
Tgt Ion:180 Resp: 130

Ion Ratio Lower Upper

180 100

182 0.0 48.8 146.4#

145 0.0 16.2 48.6#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

