

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF073118\
 Data File : VF059707.D
 Acq On : 31 Jul 2018 14:15
 Operator : VA/AP
 Sample : J4140-03
 Misc : 12.03g/5mL/MSVOA F/SOIL
 ALS Vial : 88 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(90-92)

Quant Time: Jul 31 14:45:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 05:19:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	11516	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	12115	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	4615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	463	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	3737	18.06	ug/l	0.00
Spiked Amount			Recovery	=	36.12%	
35) Dibromofluoromethane	4.28	113	4500	35.76	ug/l	0.00
Spiked Amount			Recovery	=	71.52%	
50) Toluene-d8	7.71	98	10782	36.74	ug/l	0.00
Spiked Amount			Recovery	=	73.48%	
62) 4-Bromofluorobenzene	11.51	95	1233	7.59	ug/l	0.00
Spiked Amount			Recovery	=	15.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.86	85	60	Below Cal	#	44
3) Chloromethane	1.09	50	440	1.839	ug/l #	83
4) Vinyl Chloride	1.17	62	63	Below Cal	#	47
5) Bromomethane	1.18	94	90	Below Cal	#	4
6) Chloroethane	1.42	64	69	Below Cal	#	1
8) Diethyl Ether	1.68	74	80	2.176	ug/l #	1
11) Tert butyl alcohol	2.68	59	62	6.005	ug/l #	74
12) 1,1-Dichloroethene	1.88	96	111	1.245	ug/l #	1
13) Acrolein	1.98	56	59	28.695	ug/l #	4
15) Acrylonitrile	3.09	53	62	4.698	ug/l #	7
16) Acetone	2.31	43	416	11.175	ug/l #	68
17) Carbon Disulfide	1.95	76	74	Below Cal	#	71
18) Methyl Acetate	2.42	43	201	Below Cal	#	64
20) Methylene Chloride	2.28	84	86	Below Cal	#	1
25) 2-Butanone	4.51	43	70	1.685	ug/l #	74
28) Bromochloromethane	3.96	49	67	Below Cal	#	15
29) Tetrahydrofuran	4.20	42	77	4.822	ug/l #	39
31) Cyclohexane	3.84	56	62	Below Cal	#	15
36) 1,1-Dichloropropene	4.51	75	74	Below Cal	#	46
37) Ethyl Acetate	4.35	43	73	Below Cal	#	19
39) Methylcyclohexane	5.56	83	158	Below Cal	#	13
41) Methacrylonitrile	4.92	41	79	Below Cal	#	51
45) 1,2-Dichloropropane	6.36	63	67	1.037	ug/l #	43
46) Dibromomethane	6.37	93	74	1.206	ug/l #	8
48) Methyl methacrylate	6.81	41	64	1.175	ug/l #	13
49) 1,4-Dioxane	7.10	88	64	105.461	ug/l #	21
51) 4-Methyl-2-Pentanone	8.42	43	235	4.264	ug/l #	42
56) Ethyl methacrylate	8.74	69	129	1.867	ug/l #	14
58) 2-Chloroethyl Vinyl ether	7.81	63	68	8.523	ug/l	100
59) 2-Hexanone	9.62	43	402	9.103	ug/l #	30
64) Tetrachloroethene	8.31	164	62	Below Cal	#	1
66) 1,1,1,2-Tetrachloroethane	10.07	131	64	1.485	ug/l #	63
68) m/p-Xylenes	10.15	106	67	Below Cal	#	1
71) Bromoform	10.99	173	69	2.457	ug/l #	30

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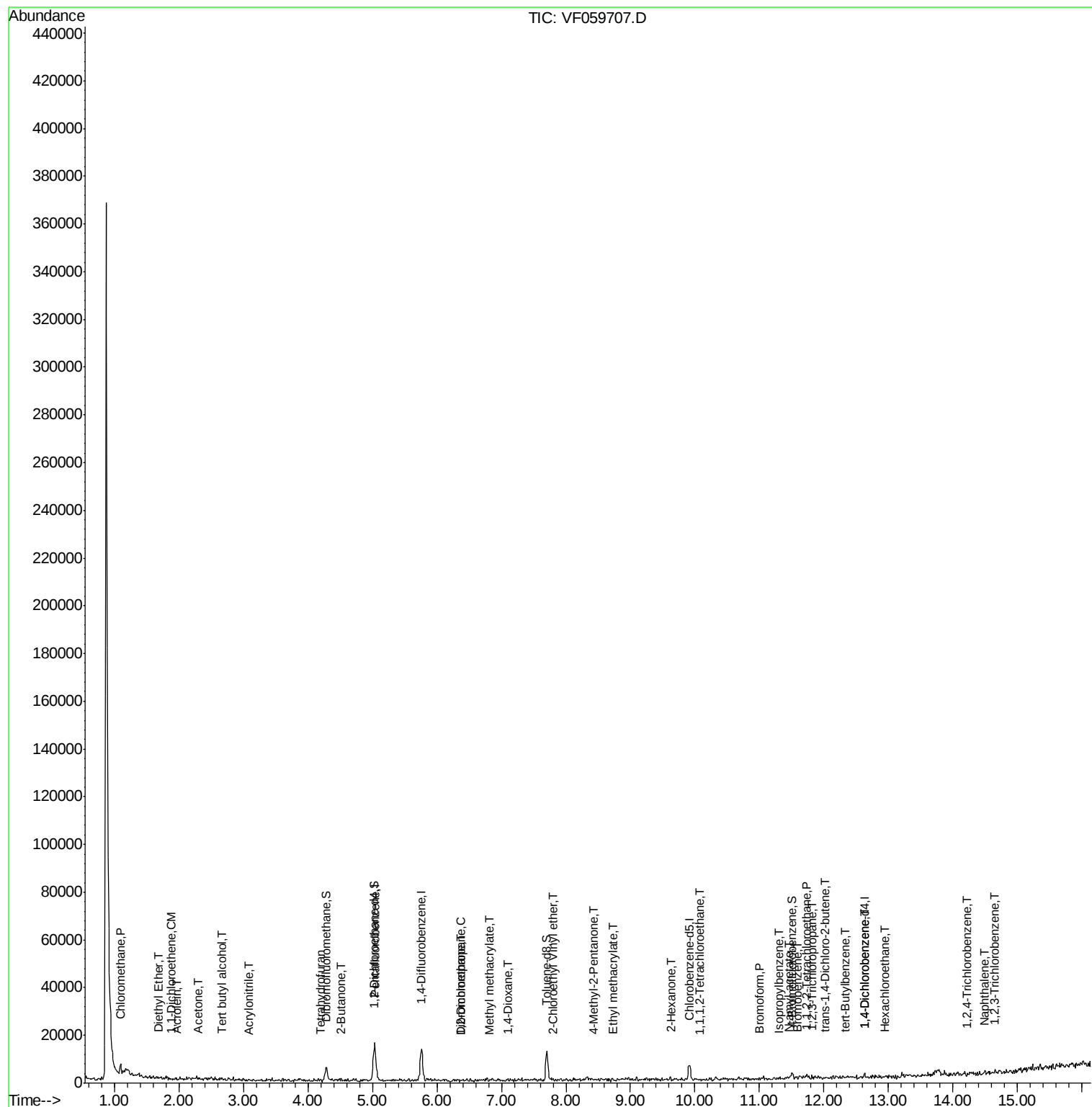
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) Isopropylbenzene	11.29	105	62	2.041	ug/l #	50
74) N-amyl acetate	11.46	43	622	81.154	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	11.74	83	73	12.765	ug/l #	25
76) 1,2,3-Trichloropropane	11.81	75	67	13.778	ug/l #	1
77) Bromobenzene	11.59	156	69	8.698	ug/l #	36
79) 2-Chlorotoluene	11.90	91	73	Below Cal	#	44
81) trans-1,4-Dichloro-2-buten	12.03	75	59	29.297	ug/l #	9
82) 4-Chlorotoluene	11.90	91	73	Below Cal	#	44
83) tert-Butylbenzene	12.33	119	66	2.420	ug/l #	26
86) p-Isopropyltoluene	12.57	119	132	Below Cal	#	49
87) 1,3-Dichlorobenzene	12.64	146	66	Below Cal	#	24
88) 1,4-Dichlorobenzene	12.64	146	66	1.050	ug/l #	24
89) n-Butylbenzene	12.91	91	93	Below Cal	#	29
90) Hexachloroethane	12.94	117	65	8.483	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.22	180	67	2.054	ug/l #	12
95) Naphthalene	14.50	128	350	17.533	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.65	180	75	6.797	ug/l #	13

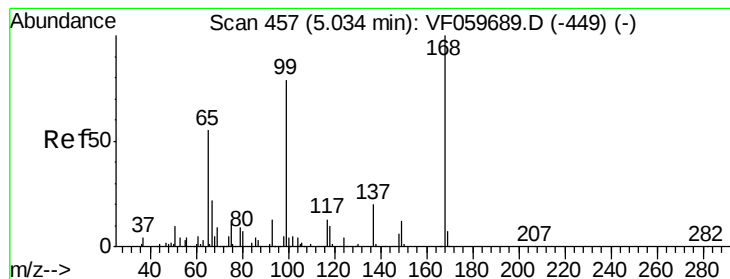
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

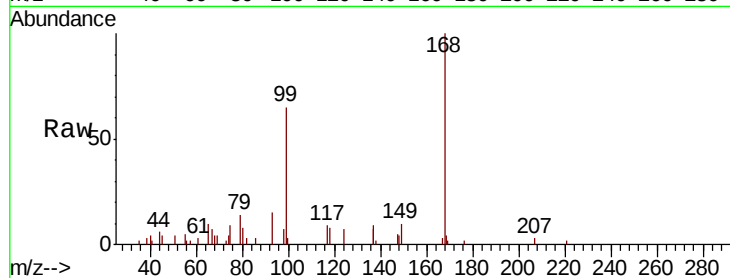
EPE-F-8(90-92)

Tot Ion:168 Resp: 11516

Ion Ratio Lower Upper

168 100

99 65.2 63.3 94.9

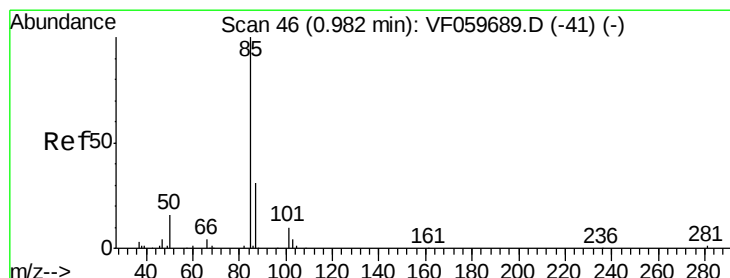
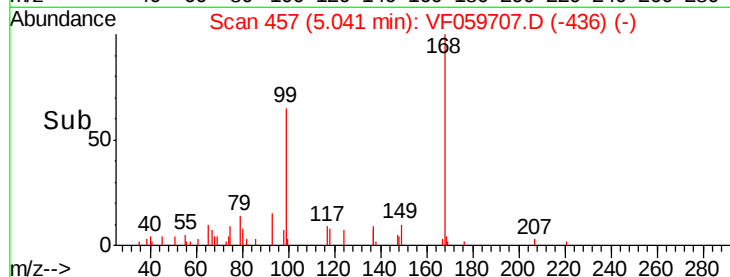


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.86 min Scan# 33

Delta R.T. -0.12 min

Lab File: VF059707.D

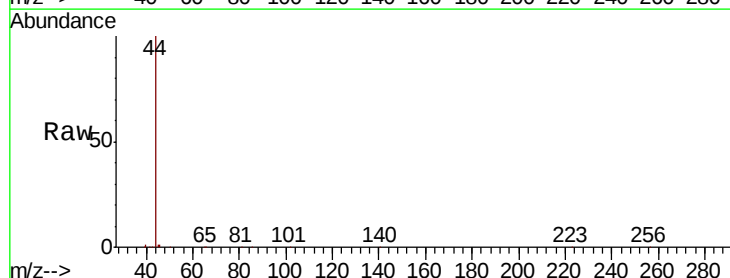
Acq: 31 Jul 2018 14:15

Tgt Ion: 85 Resp: 60

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#

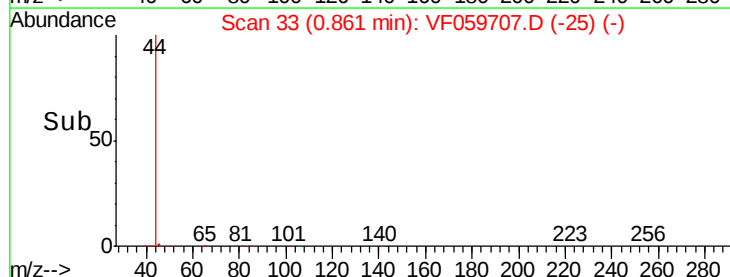


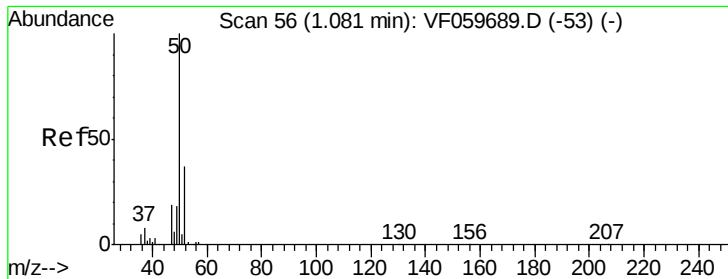
Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.86

Time-->





#3

Chloromethane

Concen: 1.839 ug/l

RT: 1.09 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

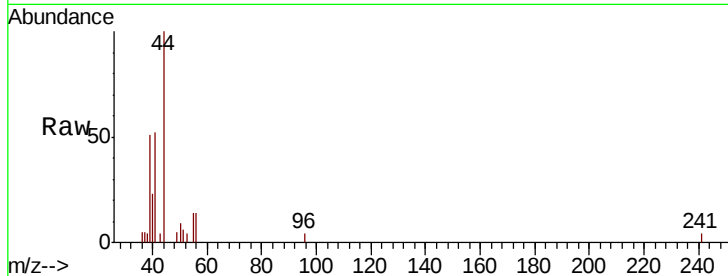
EPE-F-8(90-92)

Tot Ion: 50 Resp: 440

Ion Ratio Lower Upper

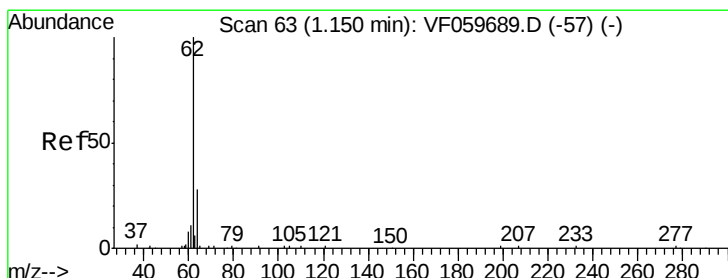
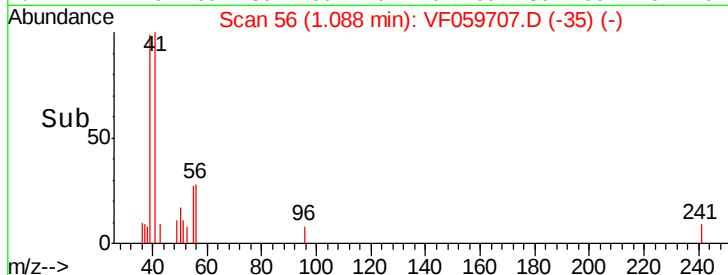
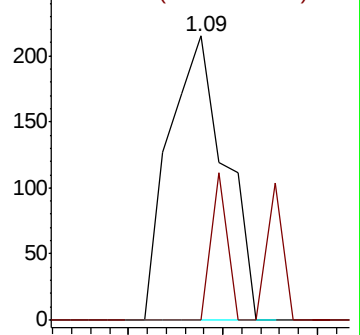
50 100

52 46.5 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: Below Cal

RT: 1.17 min Scan# 64

Delta R.T. 0.02 min

Lab File: VF059707.D

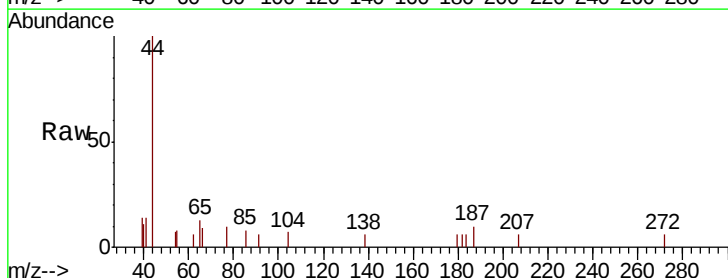
Acq: 31 Jul 2018 14:15

Tgt Ion: 62 Resp: 63

Ion Ratio Lower Upper

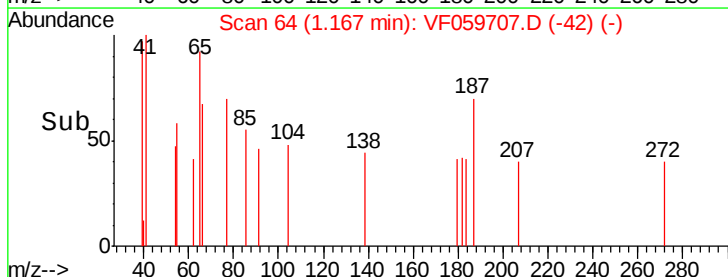
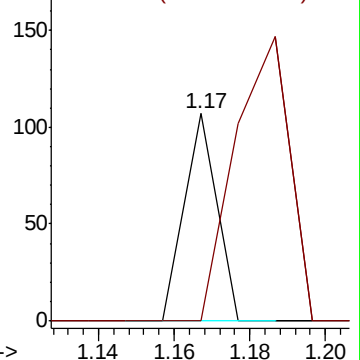
62 100

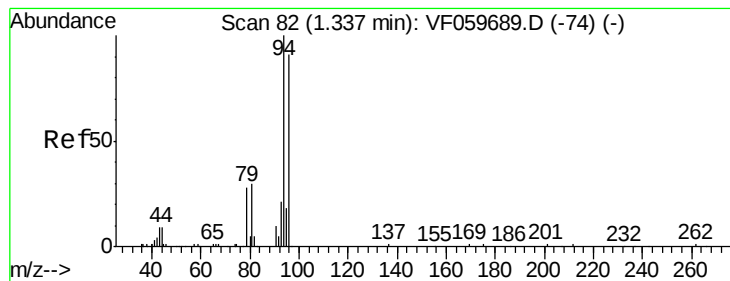
64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.18 min Scan# 65

Delta R.T. -0.16 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

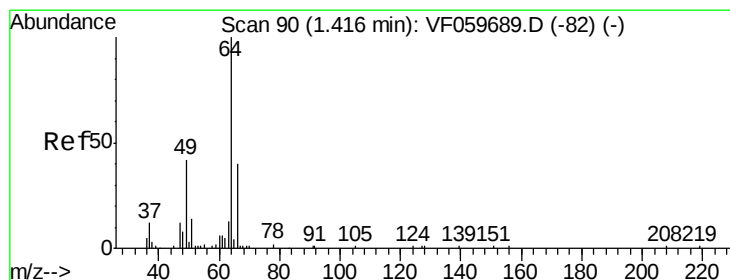
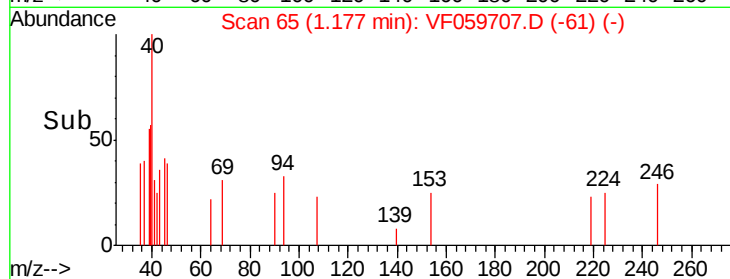
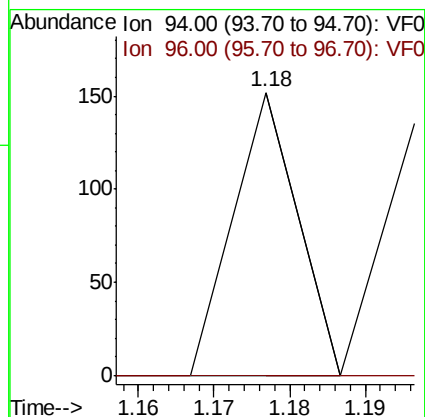
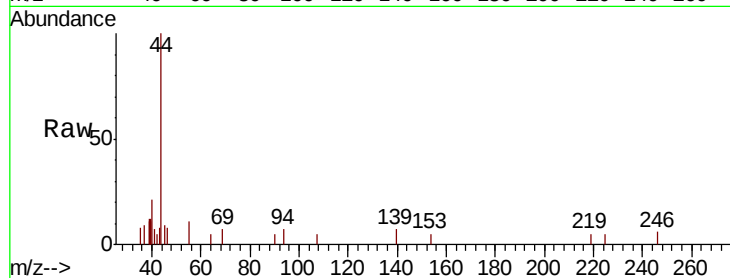
EPE-F-8(90-92)

Tot Ion: 94 Resp: 90

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



#6

Chloroethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF059707.D

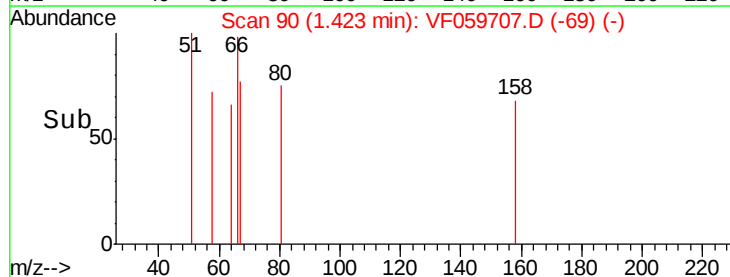
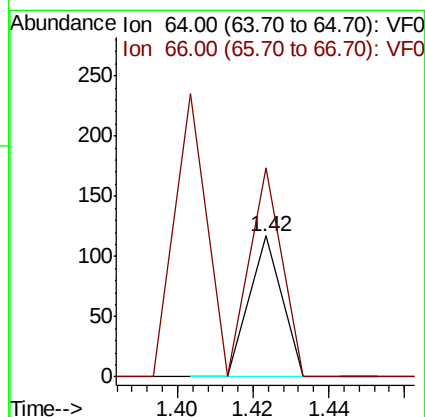
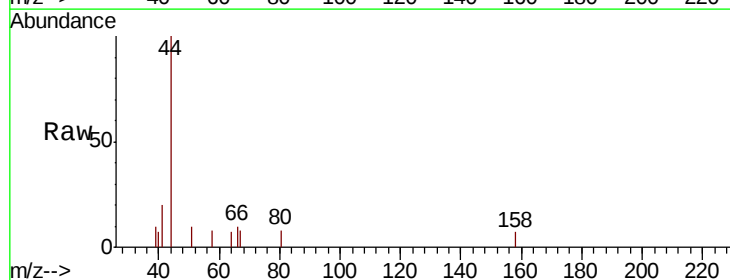
Acq: 31 Jul 2018 14:15

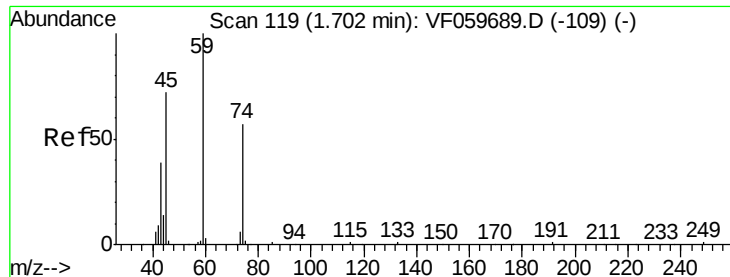
Tgt Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 148.7 32.6 49.0#





#8

Diethyl Ether

Concen: 2.176 ug/l

RT: 1.68 min Scan# 116

Delta R.T. -0.02 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

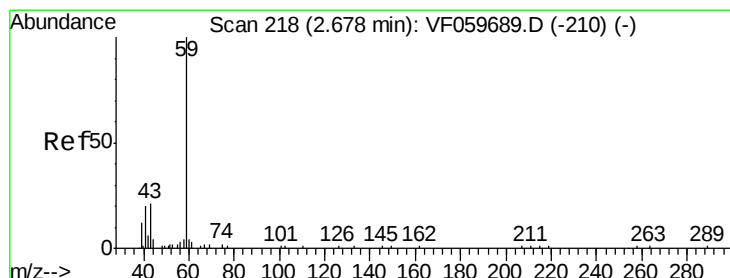
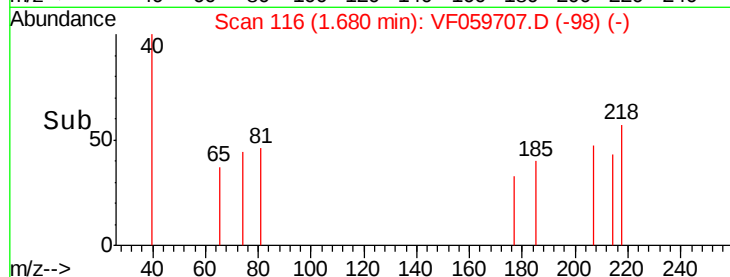
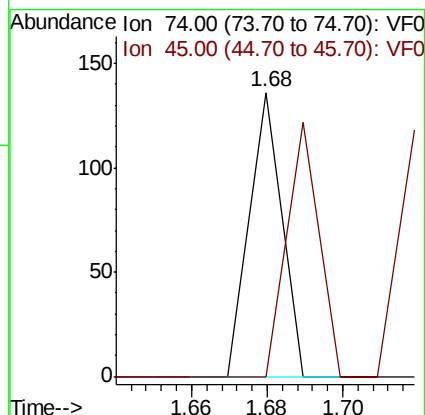
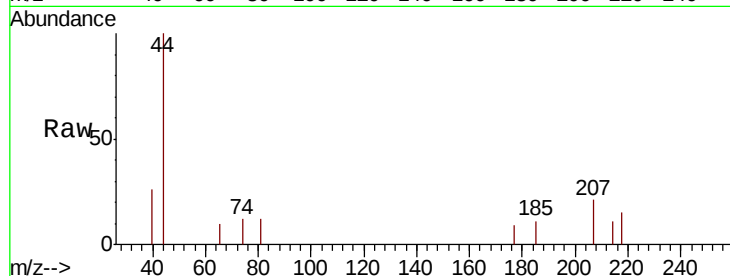
EPE-F-8(90-92)

Tot Ion: 74 Resp: 80

Ion Ratio Lower Upper

74 100

45 0.0 62.7 188.2#



#11

Tert butyl alcohol

Concen: 6.005 ug/l

RT: 2.68 min Scan# 217

Delta R.T. -0.00 min

Lab File: VF059707.D

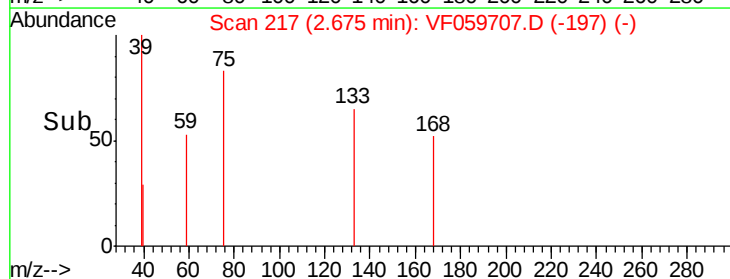
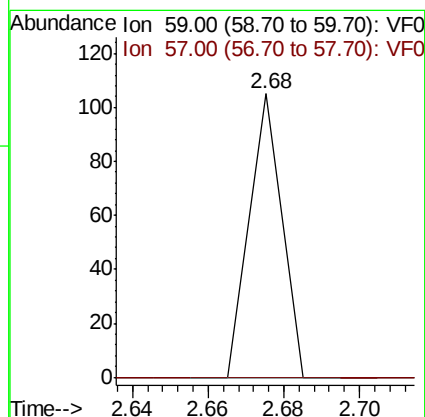
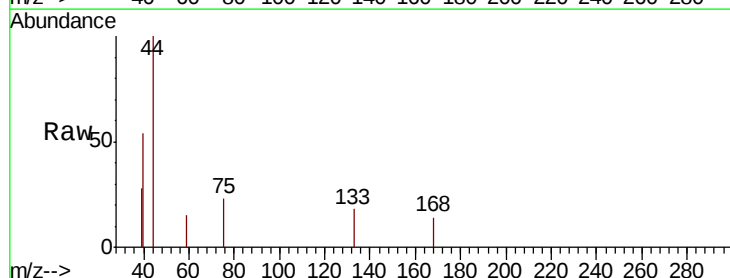
Acq: 31 Jul 2018 14:15

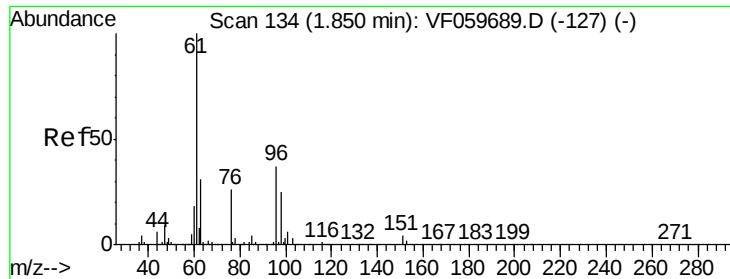
Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#

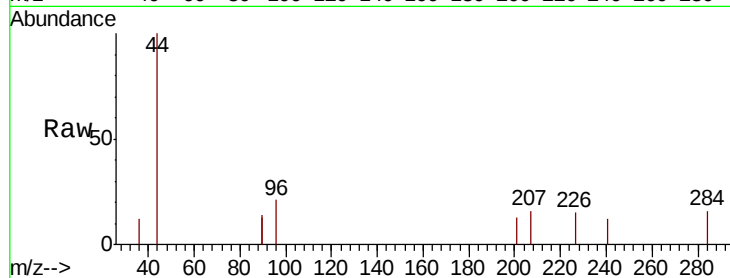




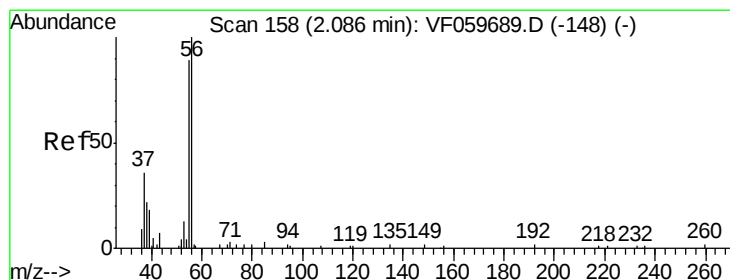
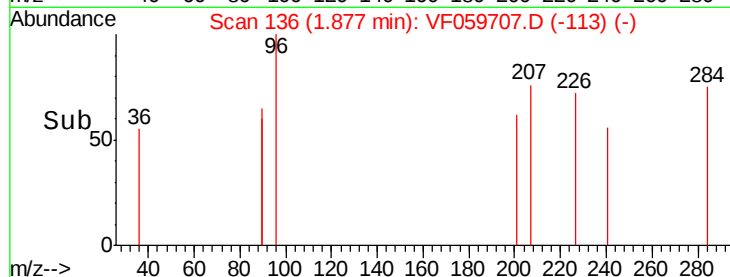
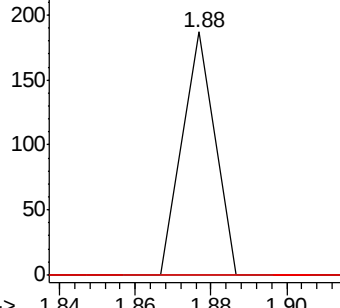
#12
 1,1-Dichloroethene
 Concen: 1.245 ug/l
 RT: 1.88 min Scan# 136
 Delta R.T. 0.03 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

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Tot Ion: 96 Resp: 111
 Ion Ratio Lower Upper
 96 100
 61 0.0 215.1 322.7#
 98 0.0 54.3 81.5#

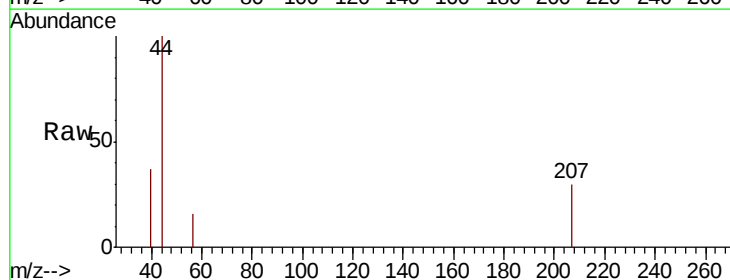


Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0

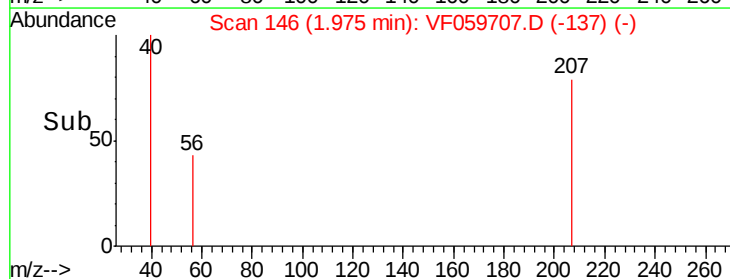
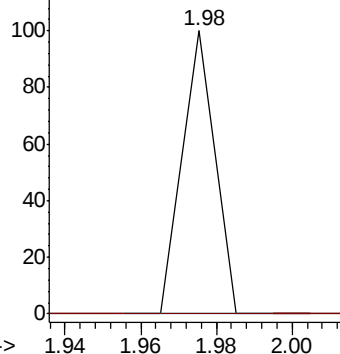


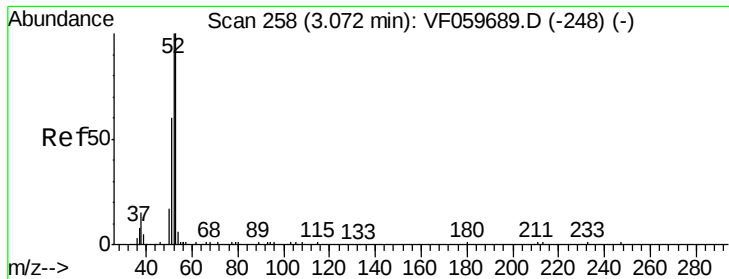
#13
 Acrolein
 Concen: 28.695 ug/l
 RT: 1.98 min Scan# 146
 Delta R.T. -0.11 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

Tgt Ion: 56 Resp: 59
 Ion Ratio Lower Upper
 56 100
 55 0.0 73.2 109.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0
 Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 4.698 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.02 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

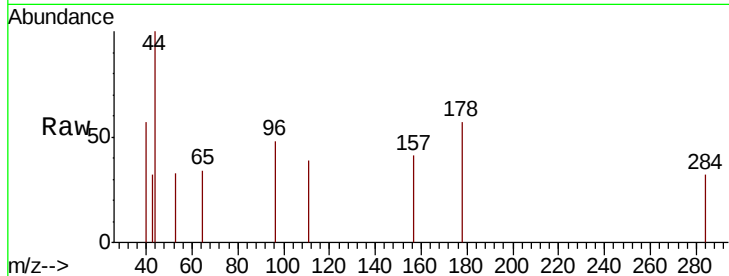
MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

Tot Ion: 53 Resp: 62

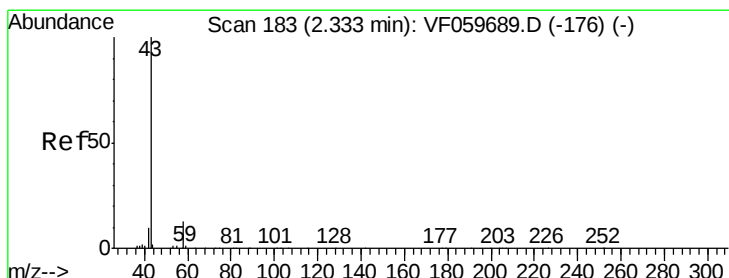
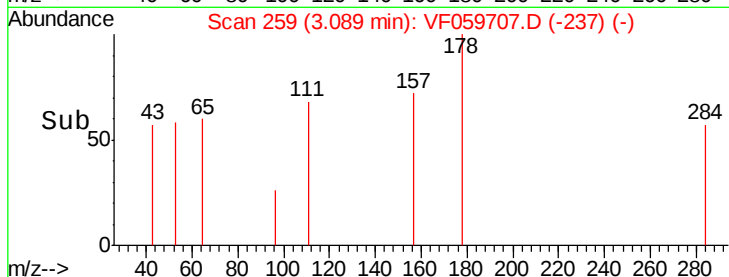
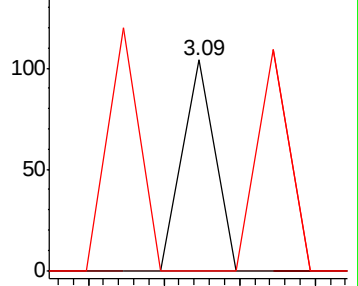
Ion	Ratio	Lower	Upper
53	100		
52	0.0	80.3	120.5#
51	0.0	49.4	74.0#



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: 11.175 ug/l

RT: 2.31 min Scan# 180

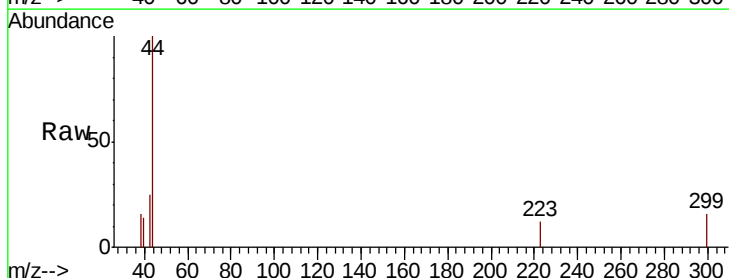
Delta R.T. -0.02 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

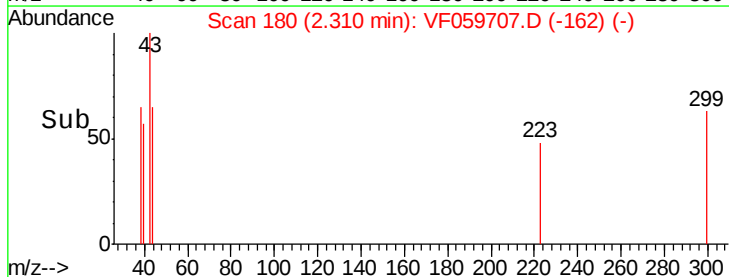
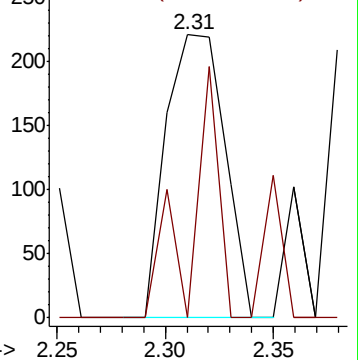
Tgt Ion: 43 Resp: 416

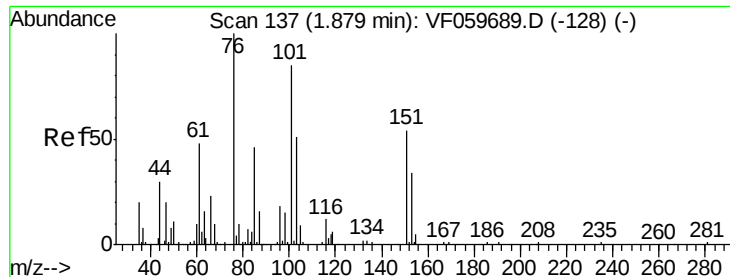
Ion	Ratio	Lower	Upper
43	100		
58	0.0	10.1	15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

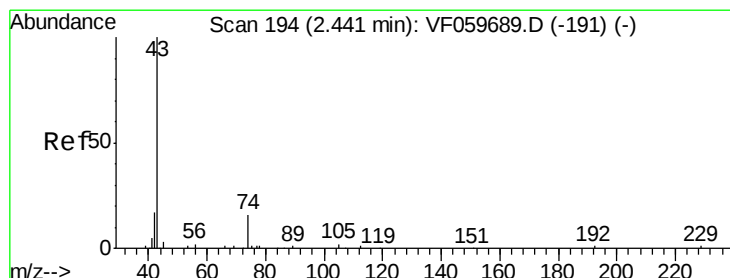
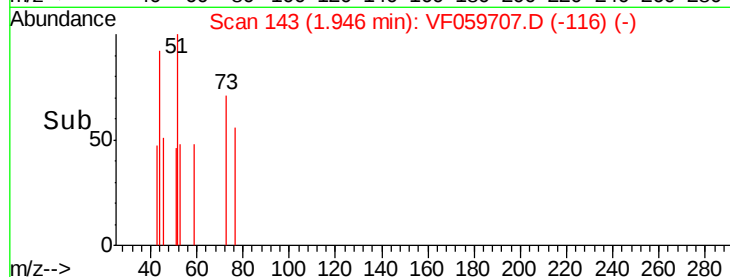
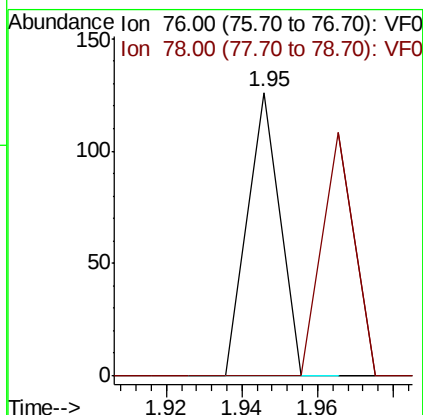
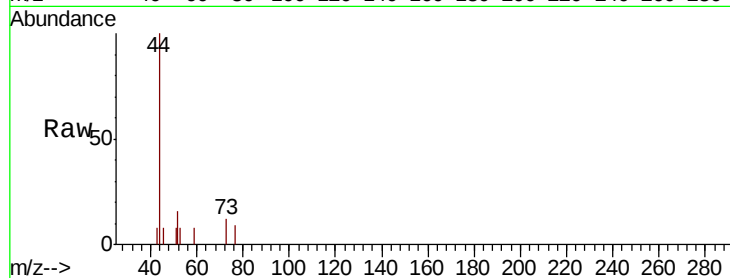




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.95 min Scan# 143
Delta R.T. 0.07 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

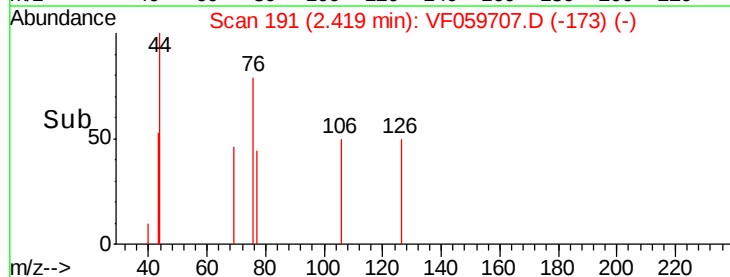
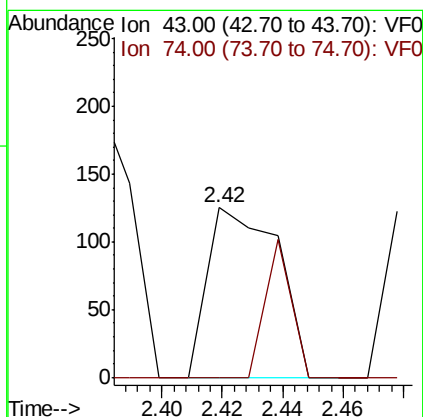
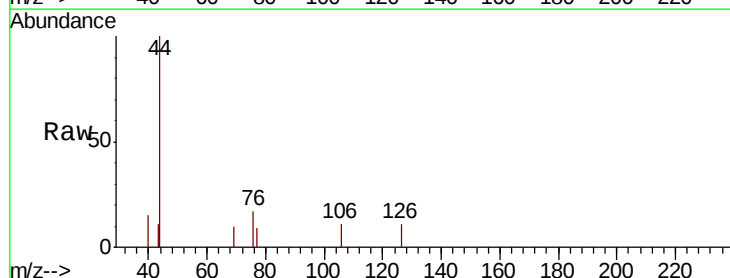
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

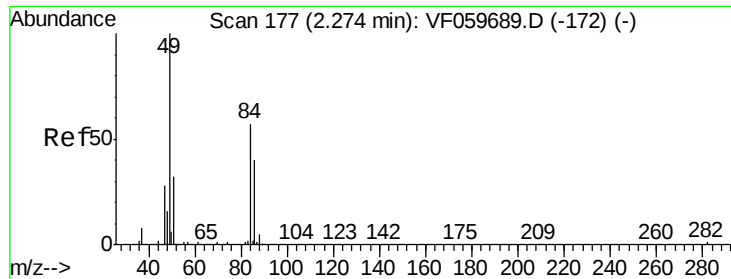
Tot Ion: 76 Resp: 74
Ion Ratio Lower Upper
76 100
78 0.0 8.9 13.3#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.42 min Scan# 191
Delta R.T. -0.02 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion: 43 Resp: 201
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.6#

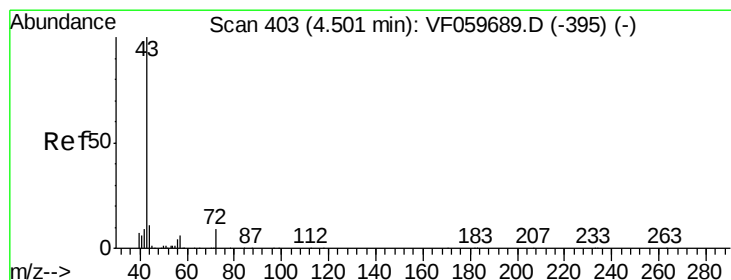
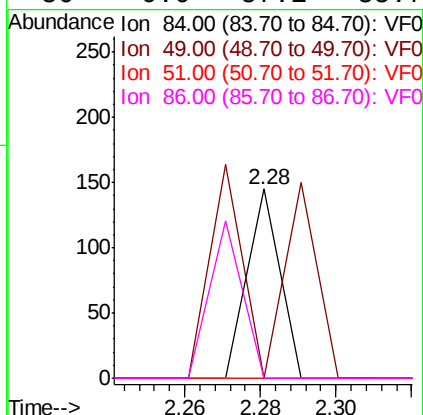
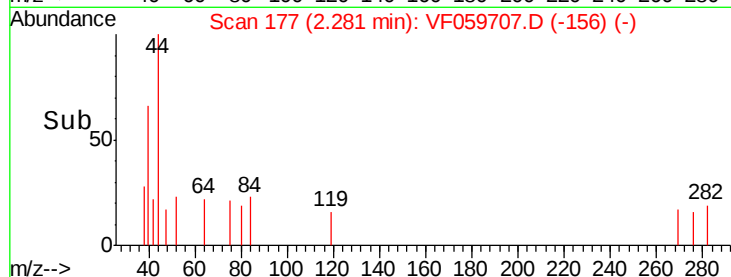
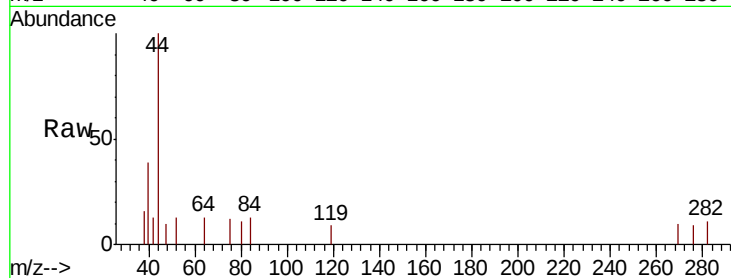




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

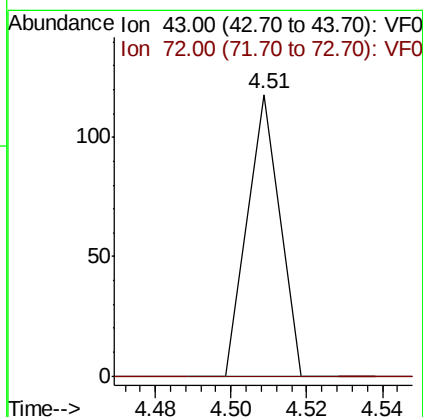
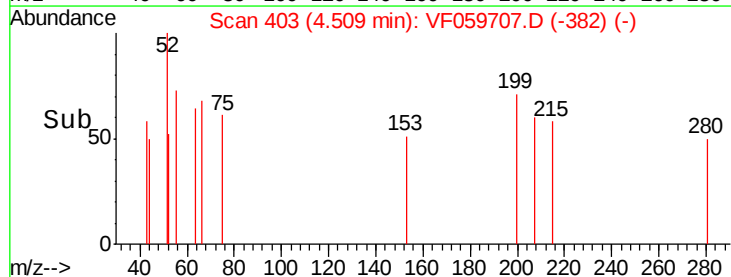
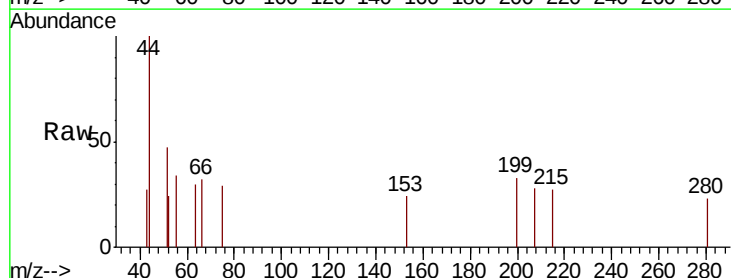
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

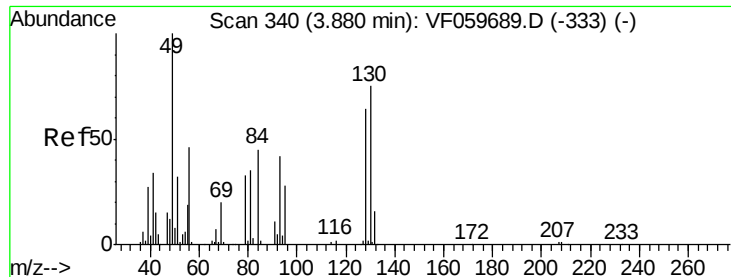
Tot Ion	Ratio	Lower	Upper
84	100		
49	0.0	142.2	213.4#
51	100.0	46.2	69.2#
86	0.0	57.1	85.7#



#25
2-Butanone
Concen: 1.685 ug/l
RT: 4.51 min Scan# 403
Delta R.T. 0.01 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	7.7	11.5#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.96 min Scan# 347

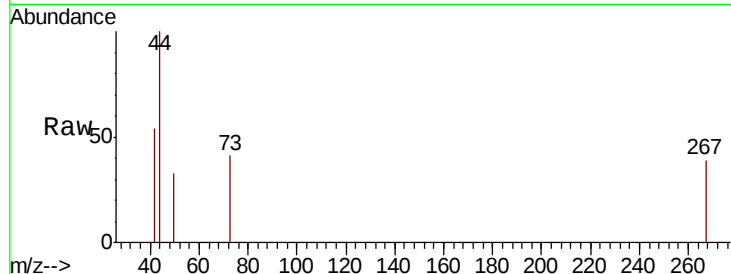
Delta R.T. 0.08 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

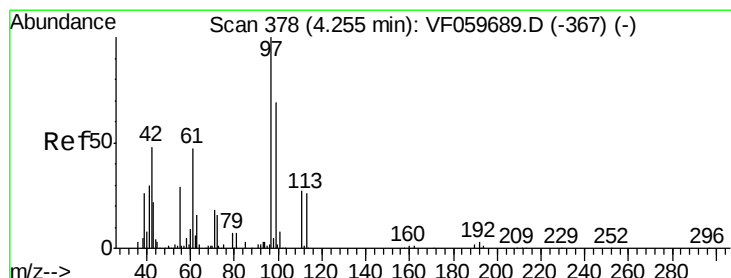
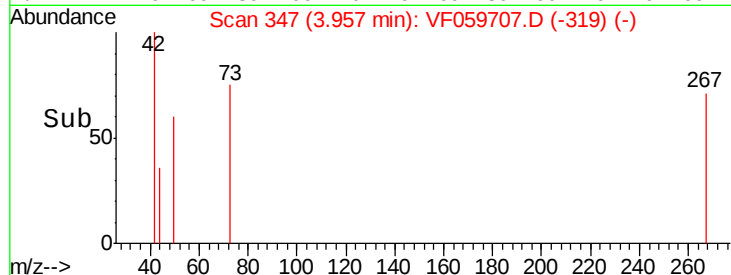
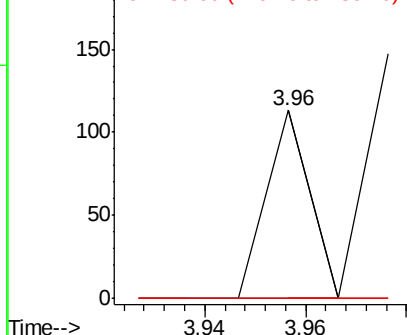
Tot Ion	49.00	Resp	67
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	0.0	59.6	89.4#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 4.822 ug/l

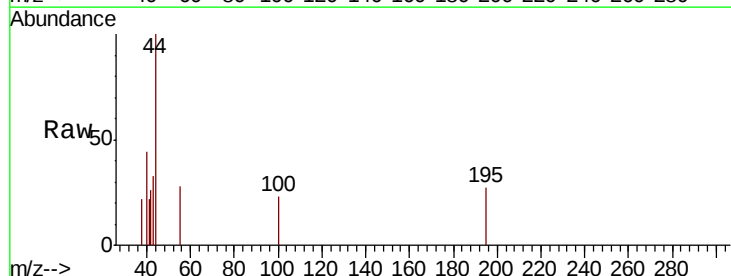
RT: 4.20 min Scan# 372

Delta R.T. -0.05 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

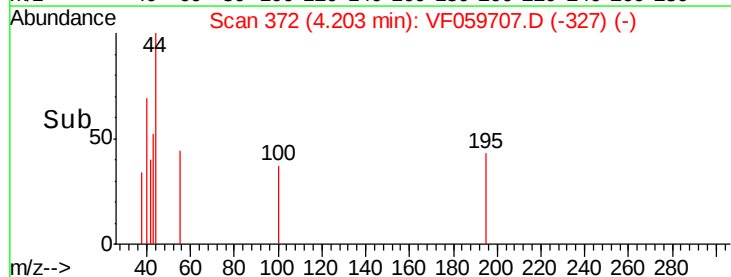
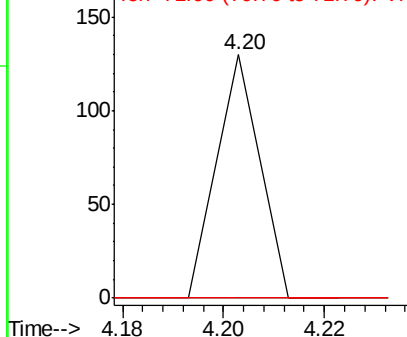
Tgt Ion	42	Resp	77
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.0	40.6#
71	0.0	29.7	44.5#

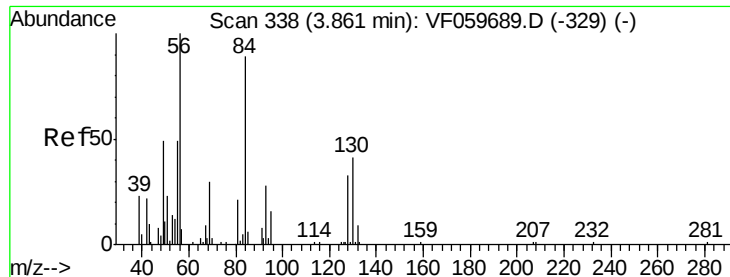


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

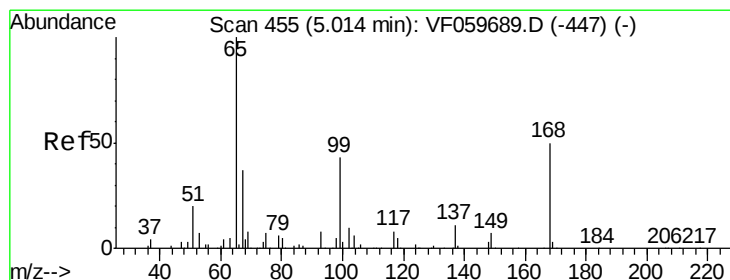
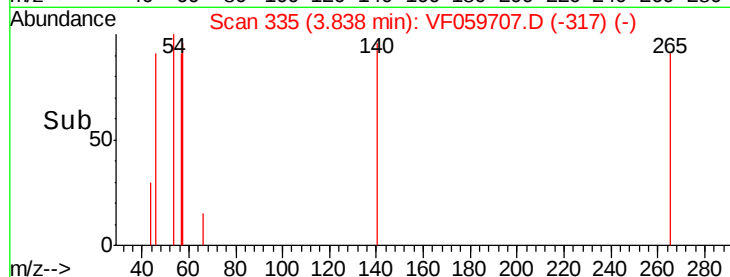
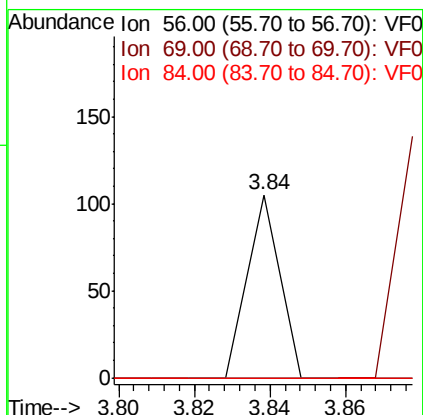
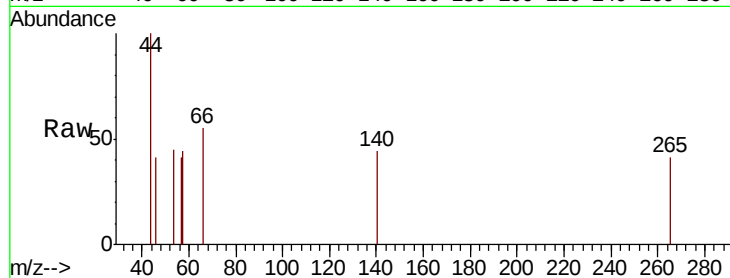




#31
Cyclohexane
Concen: Below Cal
RT: 3.84 min Scan# 335
Delta R.T. -0.02 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

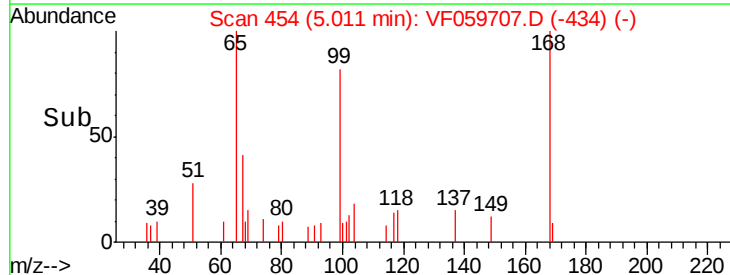
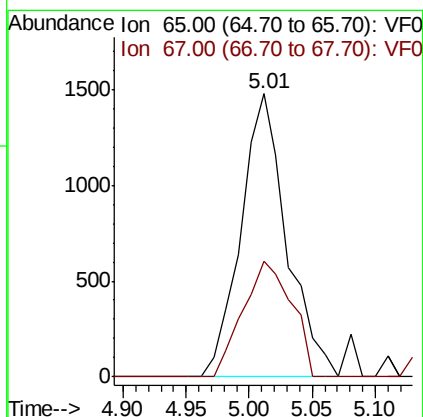
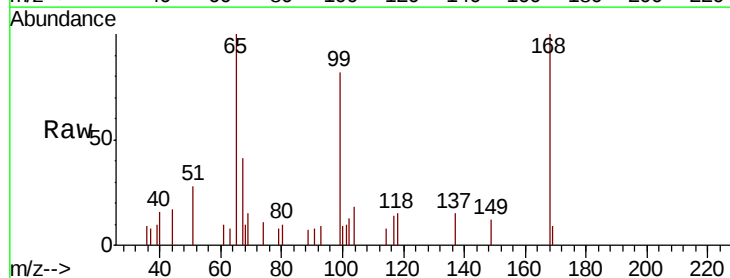
Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

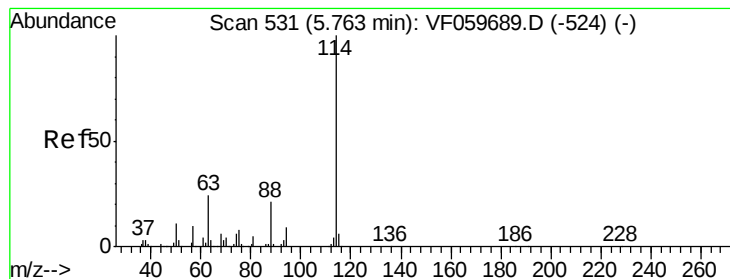
Tot Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
69 0.0 23.7 35.5#
84 0.0 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 18.056 ug/l
RT: 5.01 min Scan# 454
Delta R.T. -0.00 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion: 65 Resp: 3737
Ion Ratio Lower Upper
65 100
67 41.0 0.0 84.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

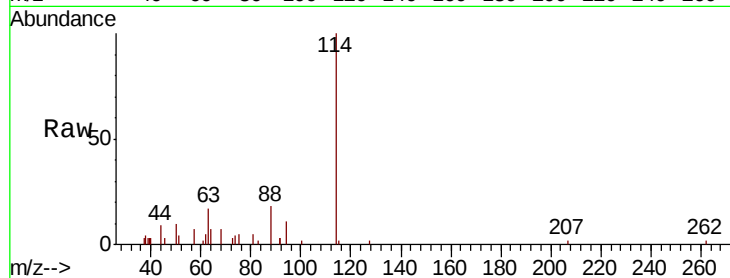
Tot Ion:114 Resp: 12115

Ion Ratio Lower Upper

114 100

63 17.3 0.0 47.4

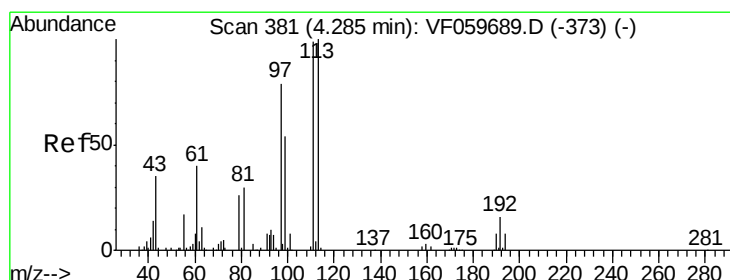
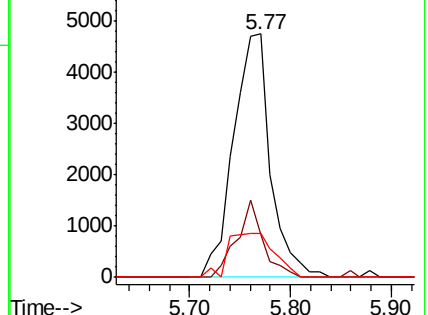
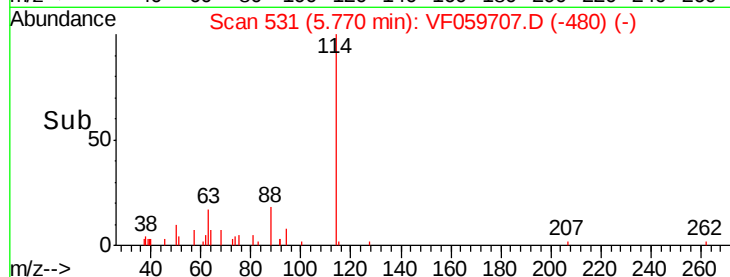
88 17.9 0.0 41.2



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: 35.762 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

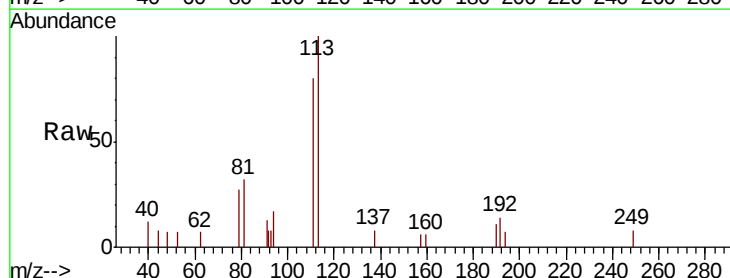
Tgt Ion:113 Resp: 4500

Ion Ratio Lower Upper

113 100

111 80.2 79.0 118.4

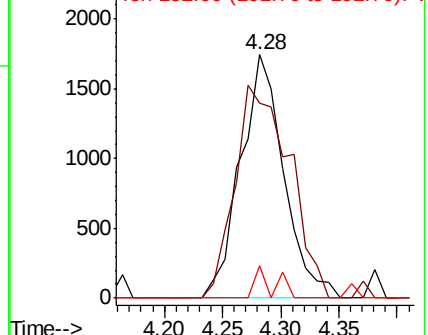
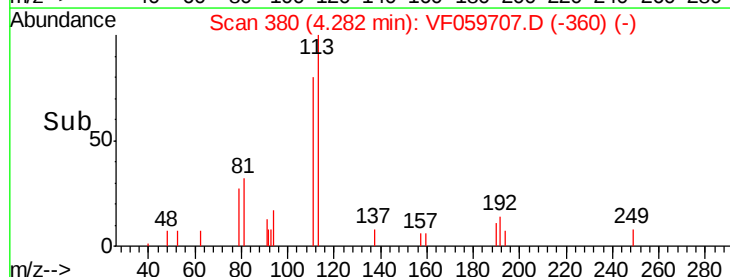
192 13.6 13.2 19.8

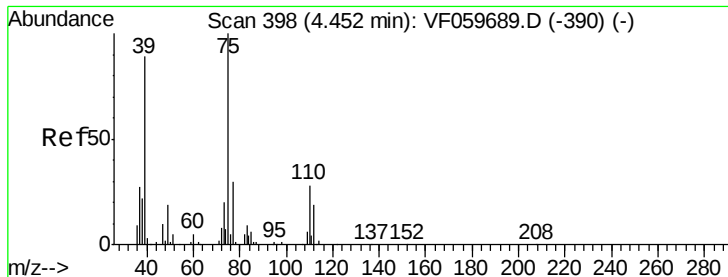


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: Below Cal

RT: 4.51 min Scan# 403

Delta R.T. 0.06 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

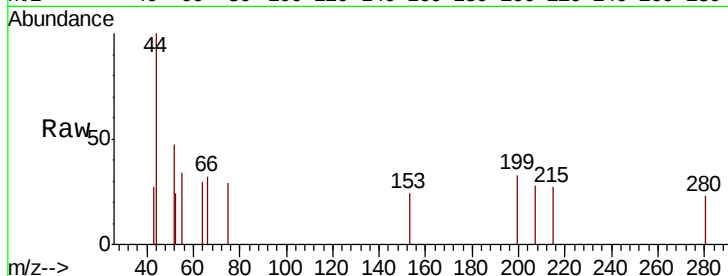
Tot Ion: 75 Resp: 74

Ion Ratio Lower Upper

75 100

110 0.0 14.0 41.9#

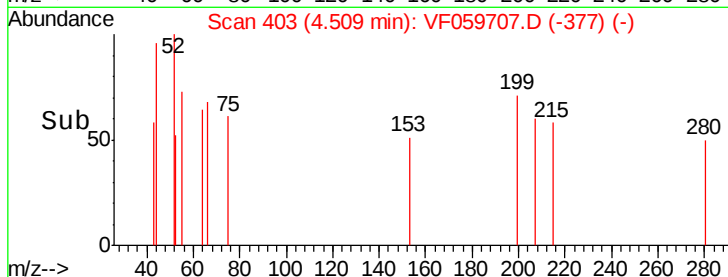
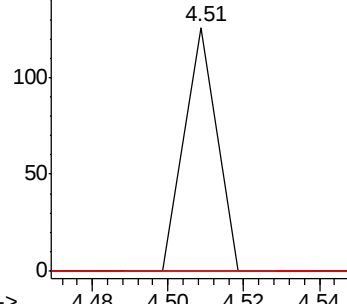
77 0.0 24.2 36.2#



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: Below Cal

RT: 4.35 min Scan# 387

Delta R.T. 0.06 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

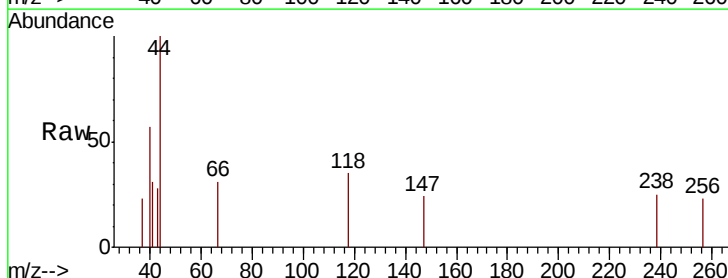
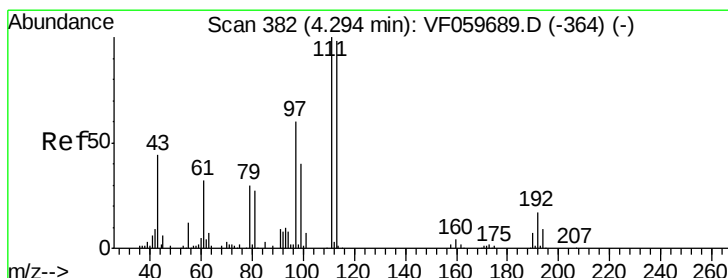
Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

61 0.0 58.2 87.2#

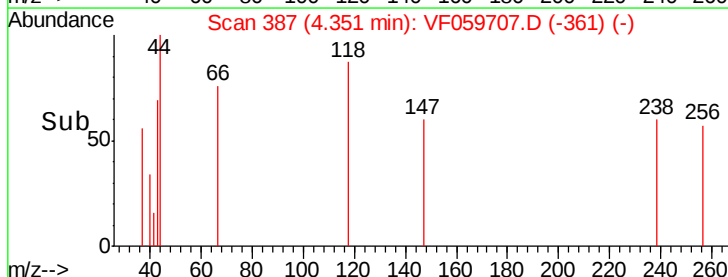
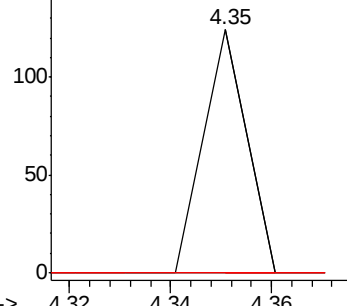
70 0.0 6.0 9.0#

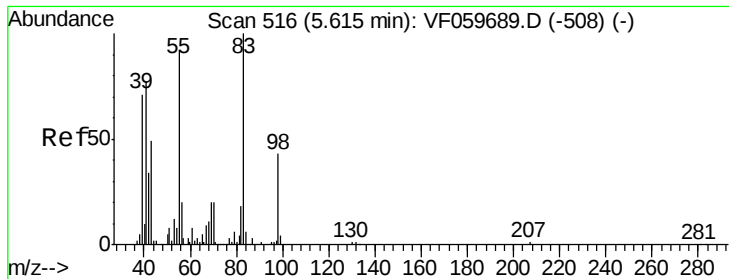


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

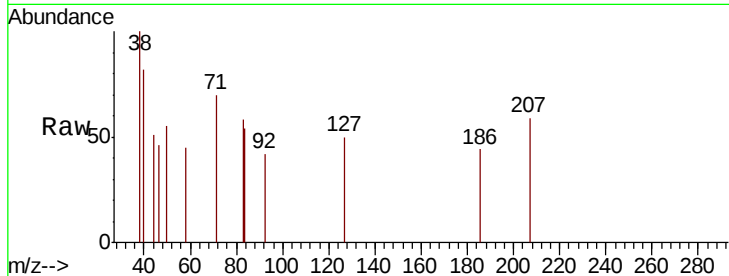




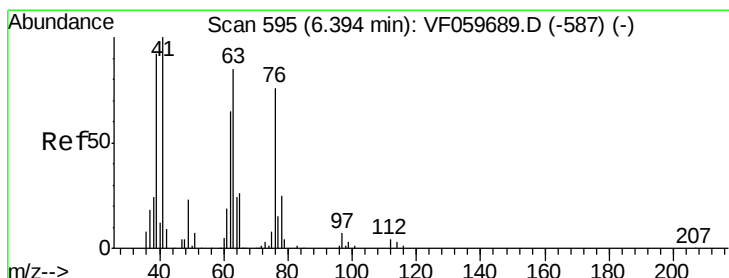
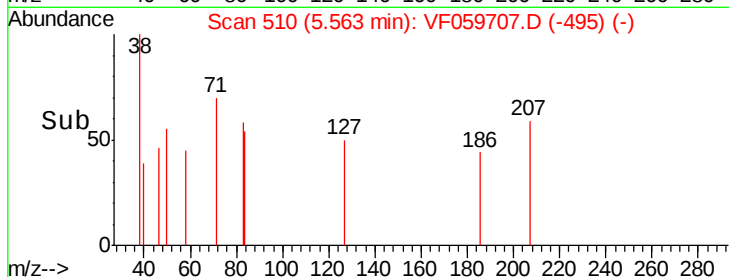
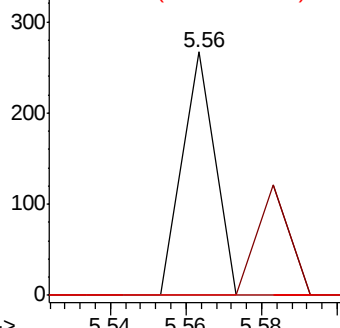
#39
Methvlcvclohexane
Concen: Below Cal
RT: 5.56 min Scan# 510
Delta R.T. -0.05 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

Tot Ion: 83 Resp: 158
Ion Ratio Lower Upper
83 100
55 0.0 73.4 110.2#
98 0.0 34.2 51.4#

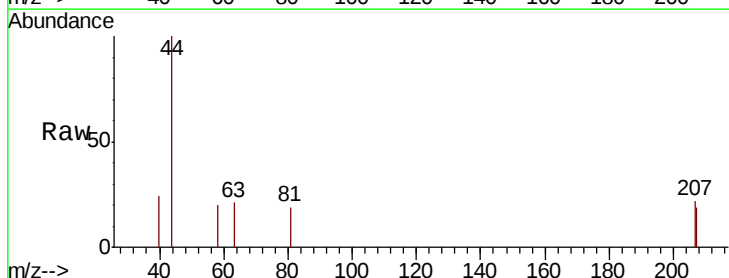


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

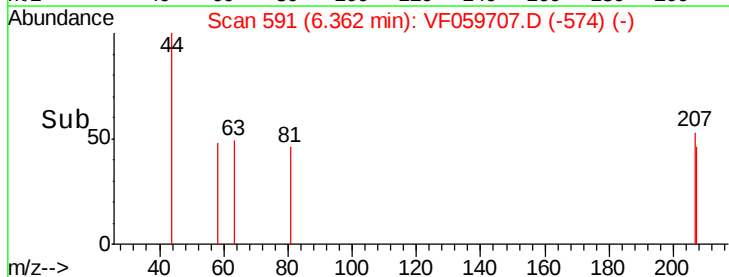
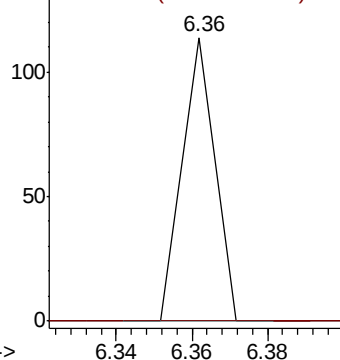


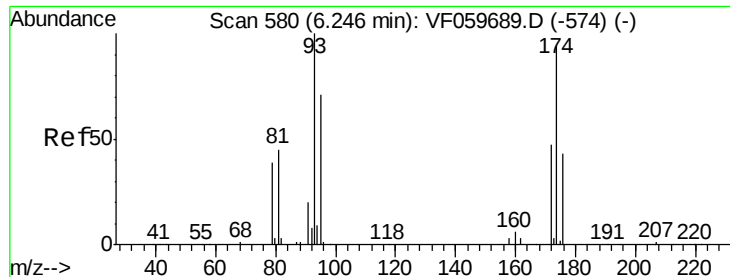
#45
1,2-Dichloropropane
Concen: 1.037 ug/l
RT: 6.36 min Scan# 591
Delta R.T. -0.03 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion: 63 Resp: 67
Ion Ratio Lower Upper
63 100
65 0.0 25.2 37.8#



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





#46

Dibromomethane

Concen: 1.206 ug/l

RT: 6.37 min Scan# 592

Delta R.T. 0.13 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

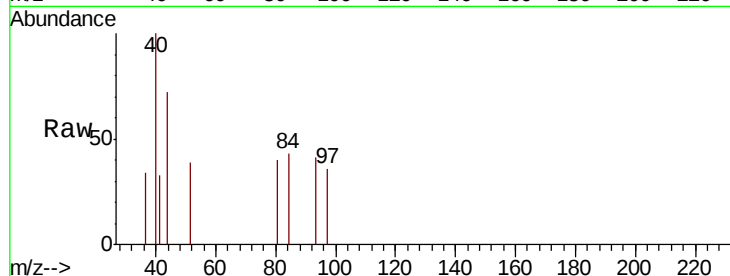
Tot Ion: 93 Resp: 74

Ion Ratio Lower Upper

93 100

95 0.0 57.1 85.7#

174 0.0 74.8 112.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

6.37

150

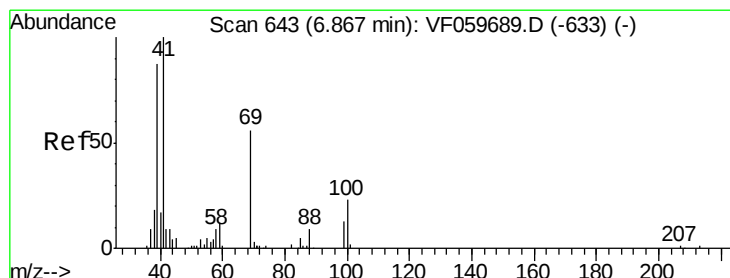
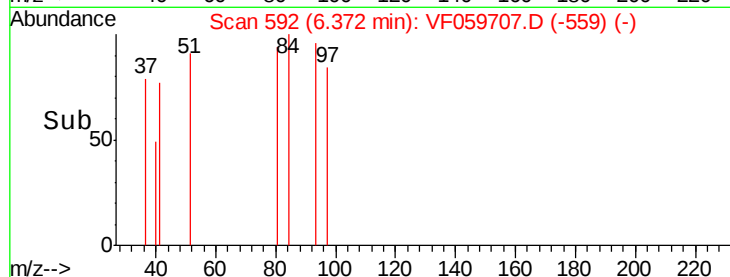
100

50

0

6.34 6.36 6.38 6.40

Time-->



#48

Methyl methacrylate

Concen: 1.175 ug/l

RT: 6.81 min Scan# 636

Delta R.T. -0.06 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

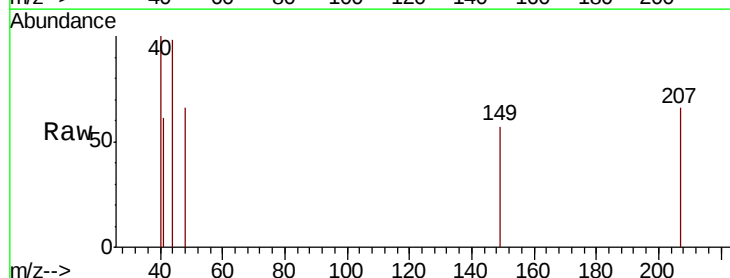
Tgt Ion: 41 Resp: 64

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

39 0.0 69.4 104.2#



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

6.81

150

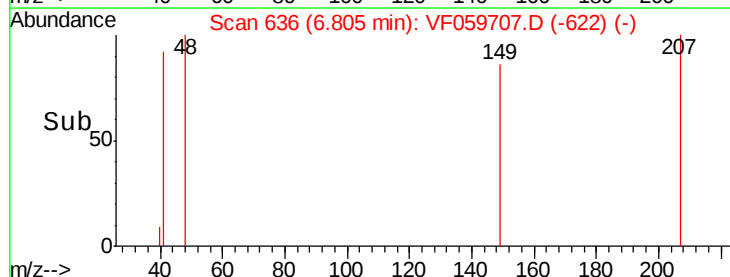
100

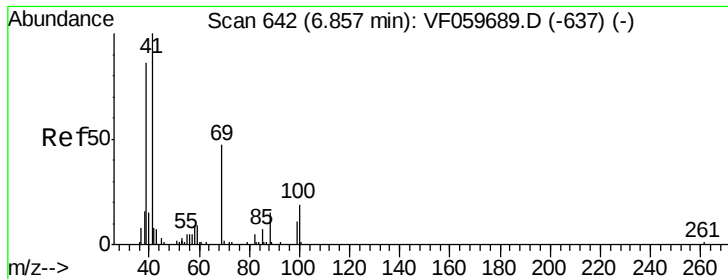
50

0

6.80 6.82

Time-->





#49

1,4-Dioxane

Concen: 105.461 ug/l

RT: 7.10 min Scan# 666

Delta R.T. 0.24 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

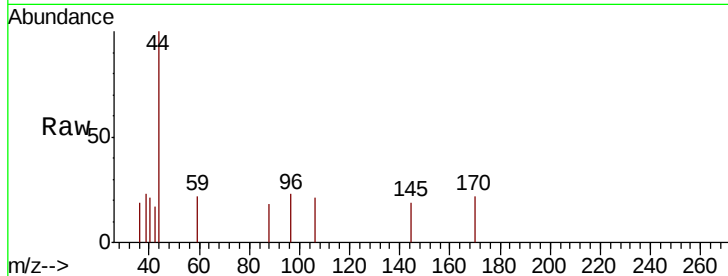
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

58 0.0 49.0 73.6#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

7.10

7.12

7.08

7.10

7.12

7.10

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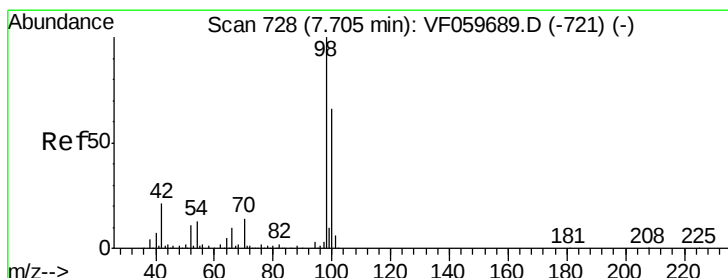
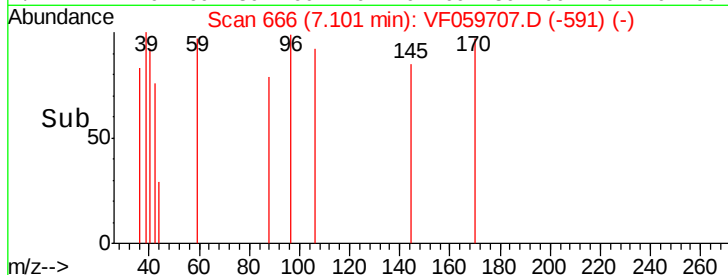
7.12

7.10

7.12

7.10

7.12



#50

Toluene-d8

Concen: 36.744 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059707.D

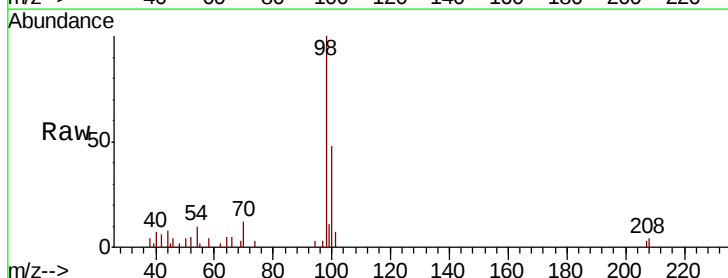
Acq: 31 Jul 2018 14:15

Tgt Ion: 98 Resp: 10782

Ion Ratio Lower Upper

98 100

100 48.5 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

7.70

7.72

7.70

7.72

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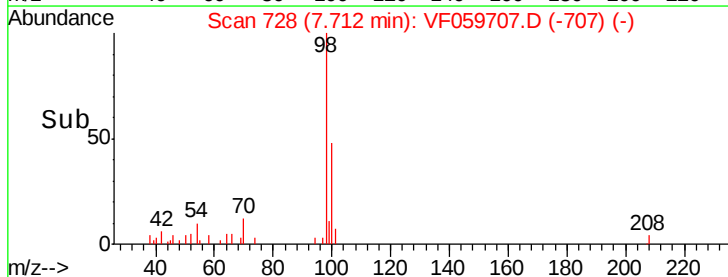
7.72

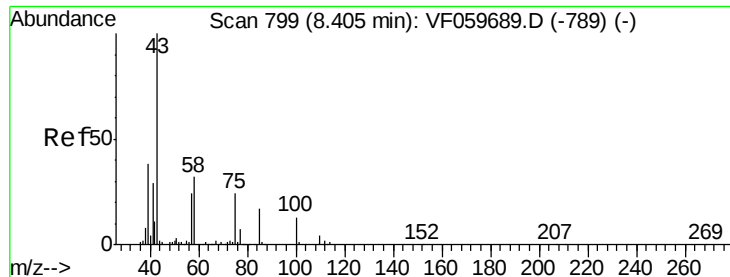
7.70

7.72

7.70

7.72





#51

4-Methyl-2-Pentanone

Concen: 4.264 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

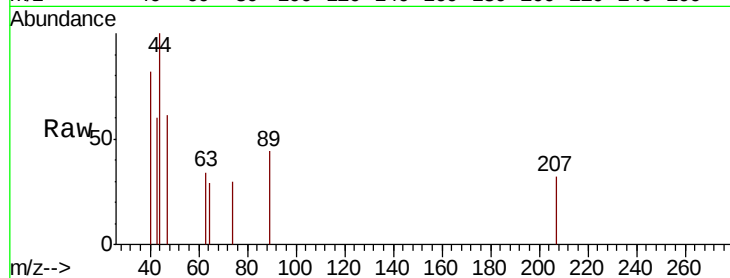
EPE-F-8(90-92)

Tot Ion: 43 Resp: 235

Ion Ratio Lower Upper

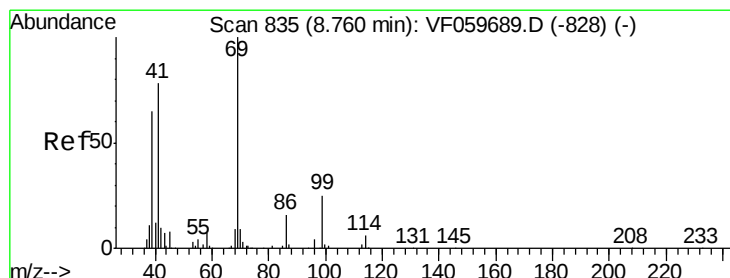
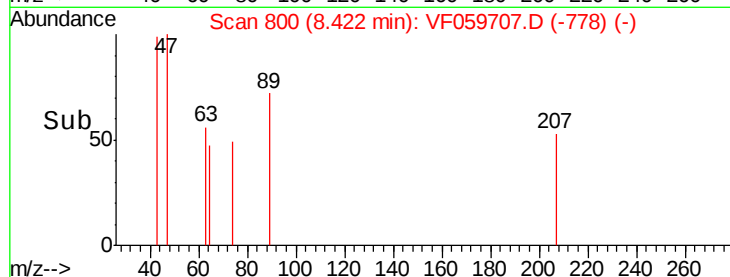
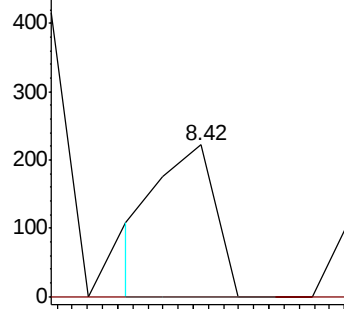
43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 1.867 ug/l

RT: 8.74 min Scan# 832

Delta R.T. -0.02 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

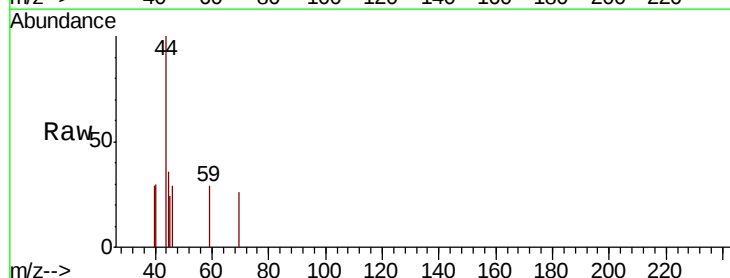
Tgt Ion: 69 Resp: 129

Ion Ratio Lower Upper

69 100

41 0.0 62.3 93.5#

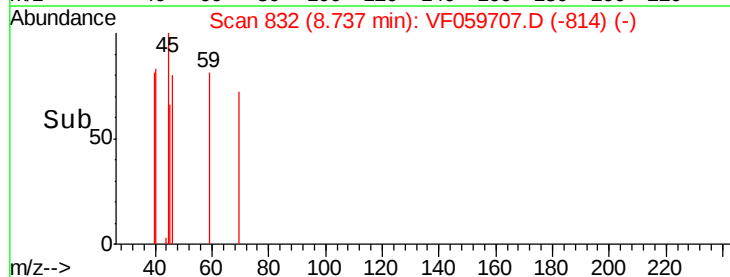
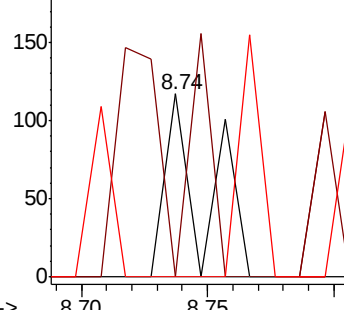
39 0.0 52.4 78.6#

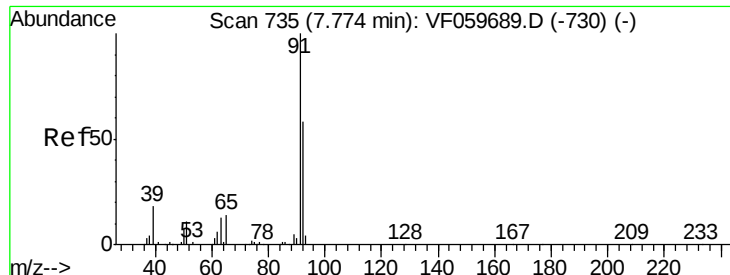


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

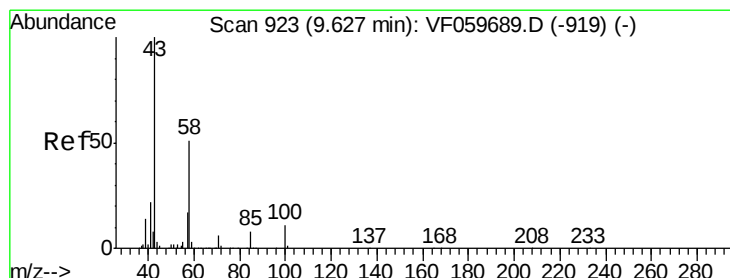
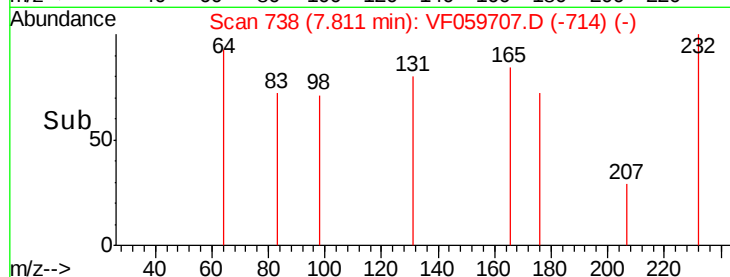
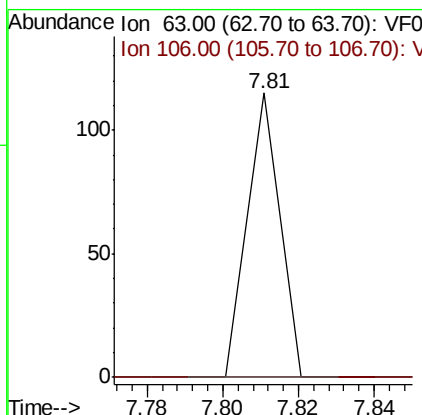
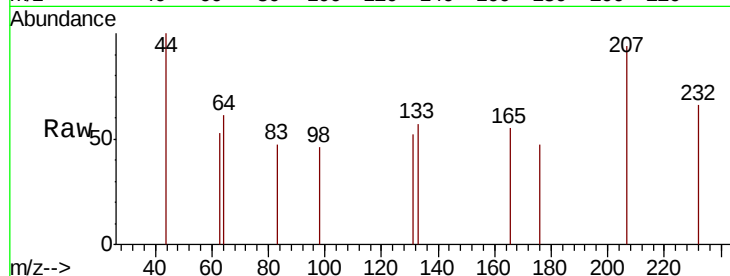




#58
 2-Chloroethyl Vinyl ether
 Concen: 8.523 ug/l
 RT: 7.81 min Scan# 738
 Delta R.T. 0.04 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

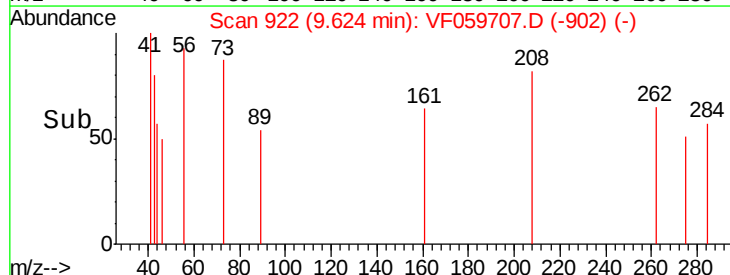
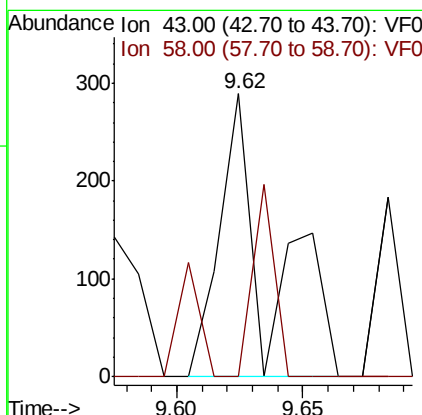
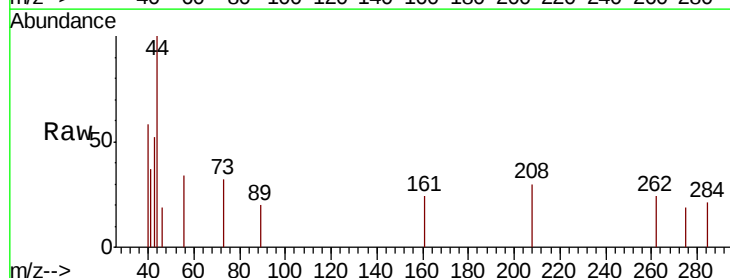
Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(90-92)

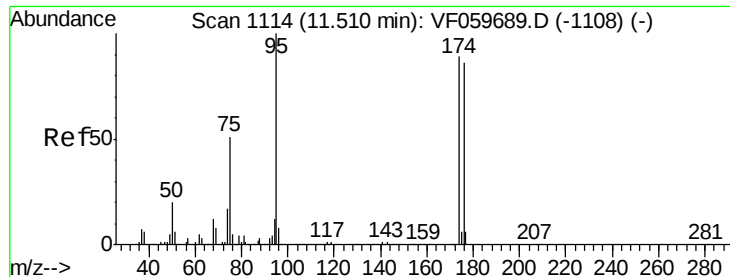
Tot Ion: 63 Resp: 68
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 9.103 ug/l
 RT: 9.62 min Scan# 922
 Delta R.T. -0.00 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

Tgt Ion: 43 Resp: 402
 Ion Ratio Lower Upper
 43 100
 58 0.0 23.3 69.8#





#62

4-Bromofluorobenzene

Concen: 7.590 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampled :

EPE-F-8(90-92)

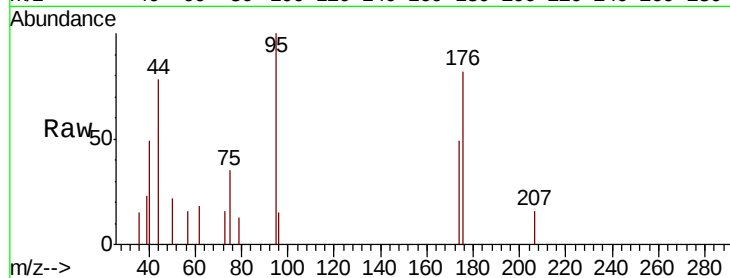
Tot Ion: 95 Resp: 1233

Ion Ratio Lower Upper

95 100

174 48.6 0.0 178.4

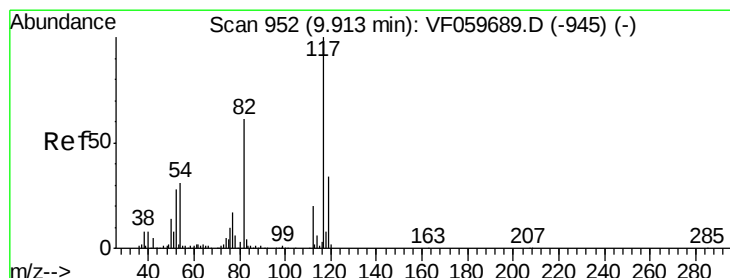
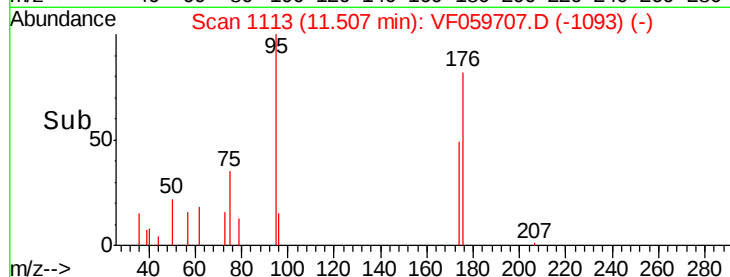
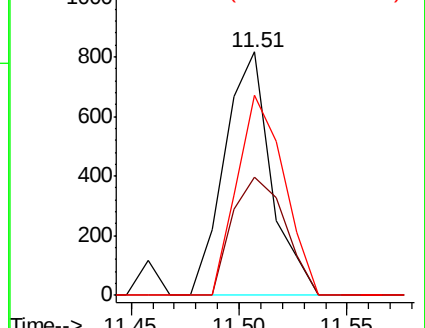
176 82.3 0.0 173.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

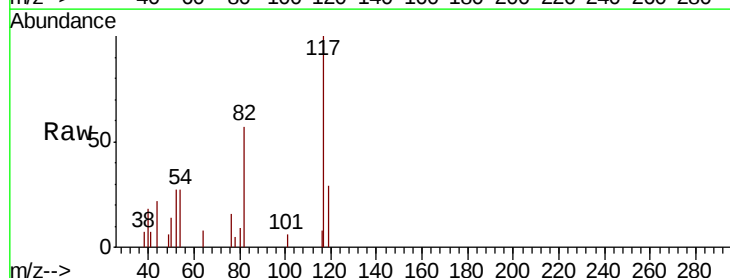
Tgt Ion: 117 Resp: 4615

Ion Ratio Lower Upper

117 100

82 57.1 49.0 73.4

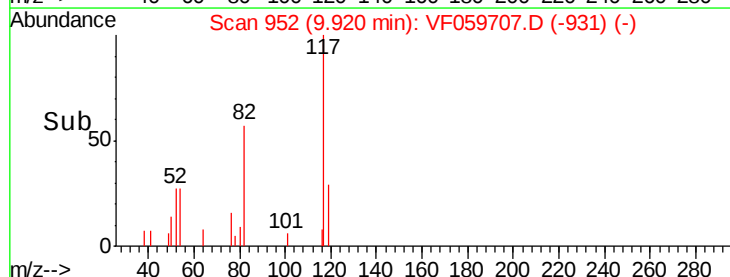
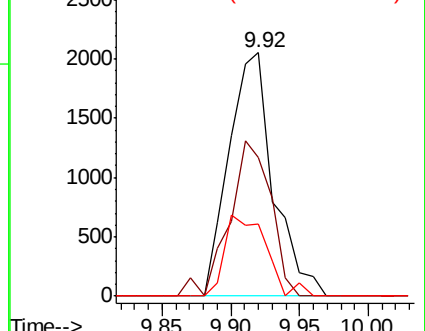
119 29.3 27.3 40.9

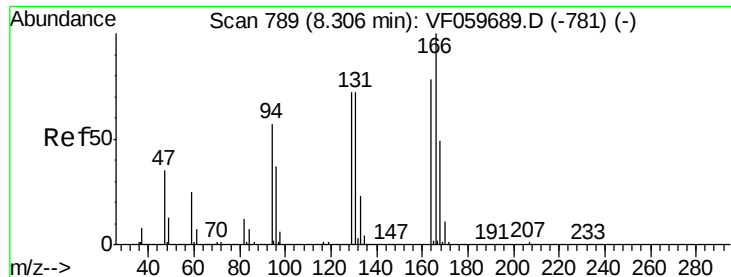


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: Below Cal

RT: 8.31 min Scan# 789

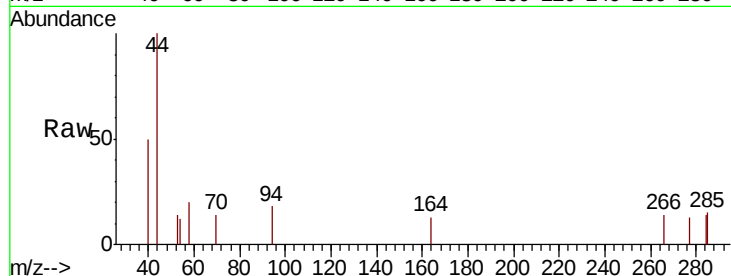
Delta R.T. 0.01 min

Lab File: VF059707.D

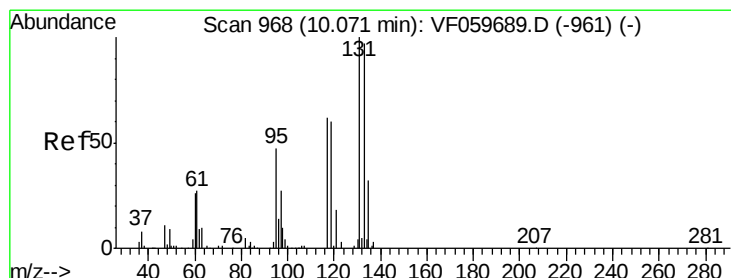
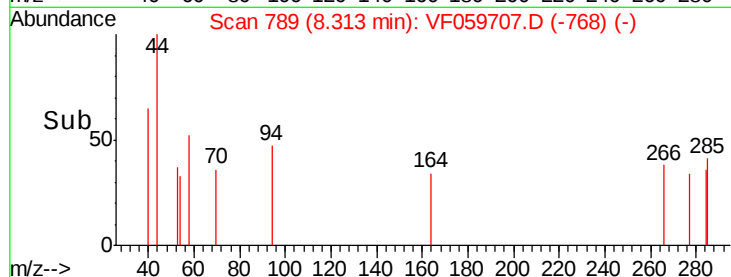
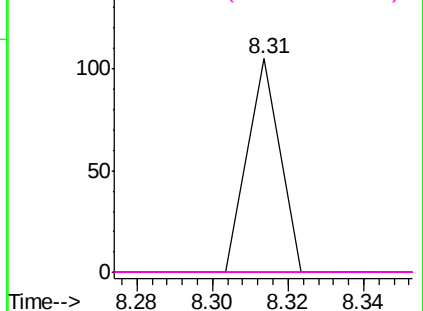
Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

Tot Ion:	164	Resp:	62
Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.1	153.1#
129	0.0	73.8	110.6#
131	0.0	73.1	109.7#



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



#66

1,1,1,2-Tetrachloroethane

Concen: 1.485 ug/l

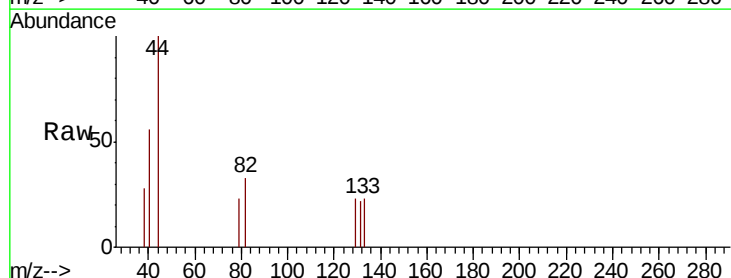
RT: 10.07 min Scan# 967

Delta R.T. -0.00 min

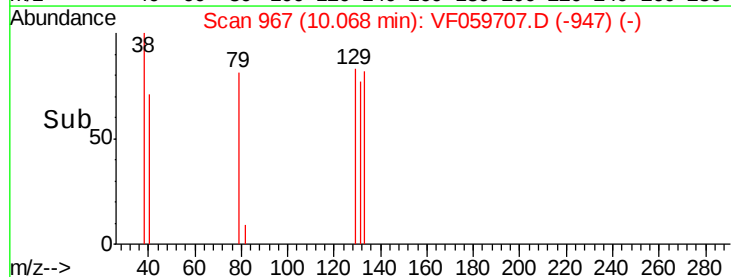
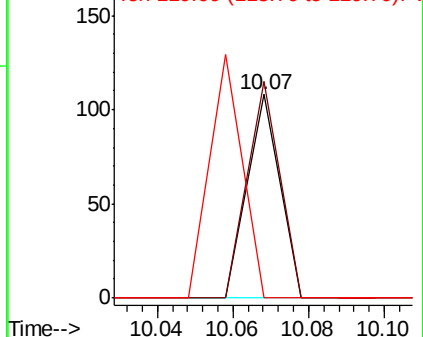
Lab File: VF059707.D

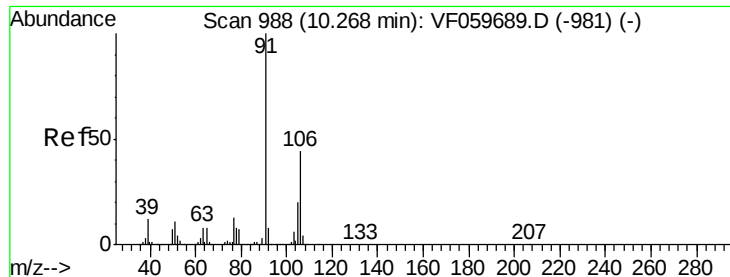
Acq: 31 Jul 2018 14:15

Tgt Ion:	131	Resp:	64
Ion	Ratio	Lower	Upper
131	100		
133	106.5	48.5	145.5
119	0.0	30.3	90.8#



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

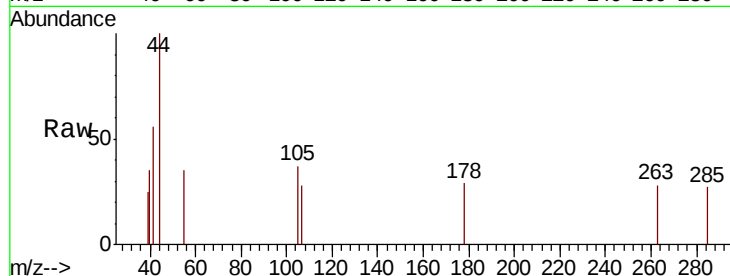




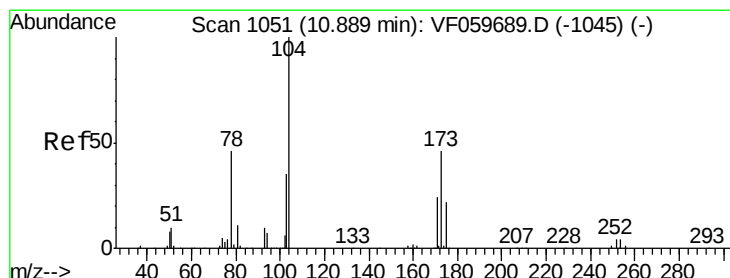
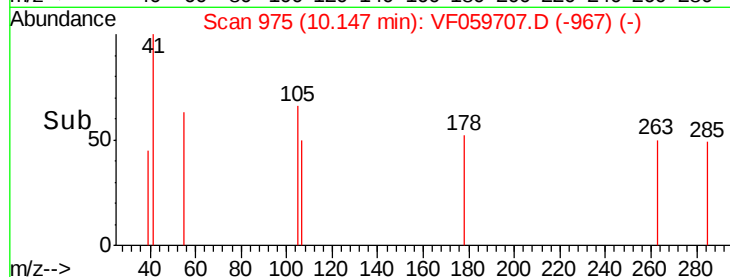
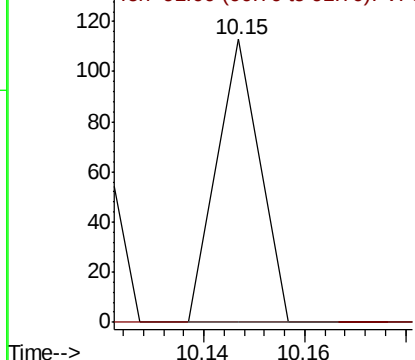
#68
m/p-Xvlenes
Concen: Below Cal
RT: 10.15 min Scan# 975
Delta R.T. -0.12 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

Tot Ion:106 Resp: 67
Ion Ratio Lower Upper
106 100
91 0.0 181.7 272.5#

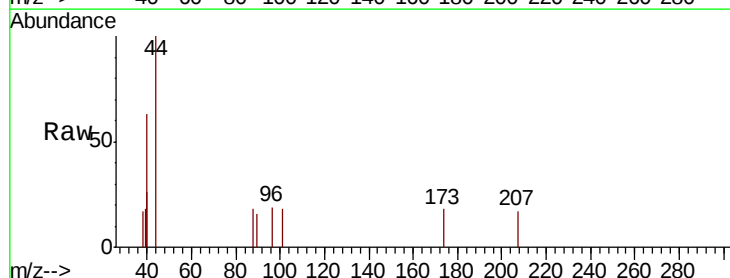


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

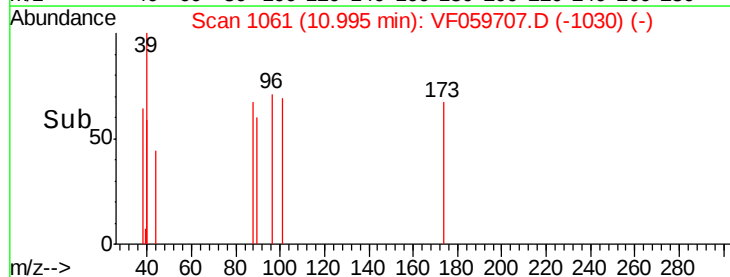
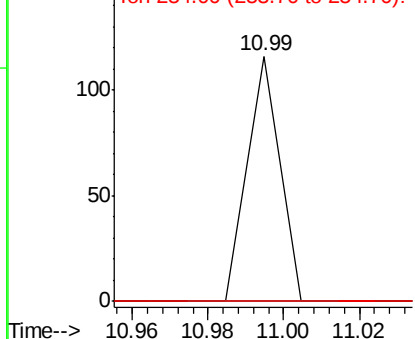


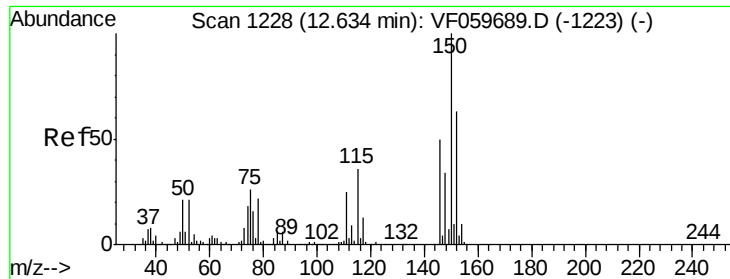
#71
Bromoform
Concen: 2.457 ug/l
RT: 10.99 min Scan# 1061
Delta R.T. 0.11 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion:173 Resp: 69
Ion Ratio Lower Upper
173 100
175 0.0 23.4 70.0#
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



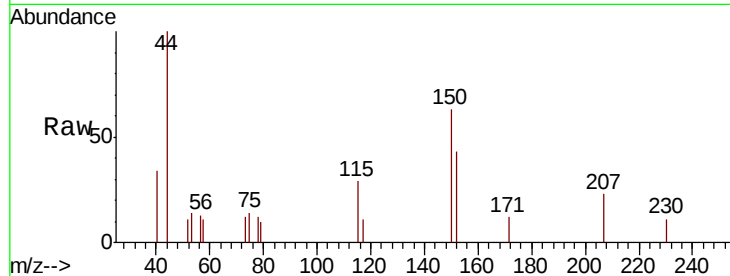


#72

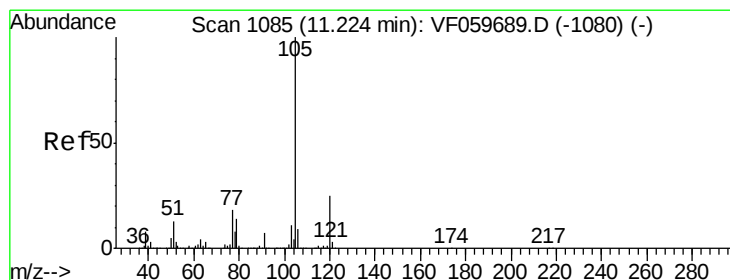
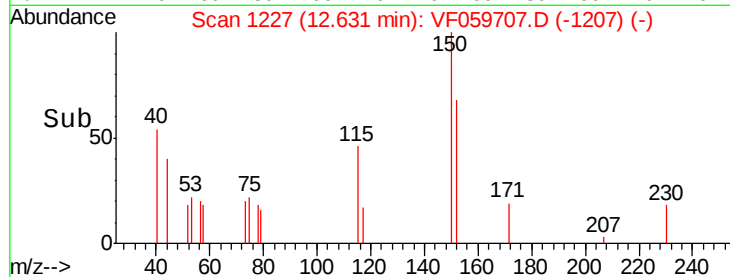
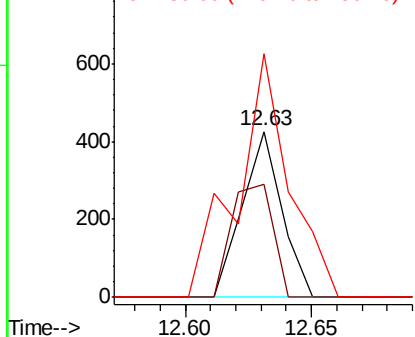
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

Tot Ion:152 Resp: 463
Ion Ratio Lower Upper
152 100
115 67.8 28.2 84.6
150 146.9 0.0 316.2



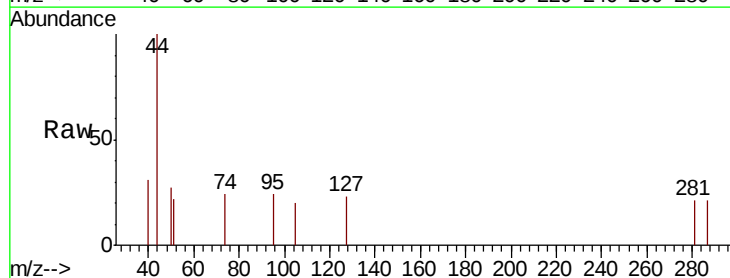
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



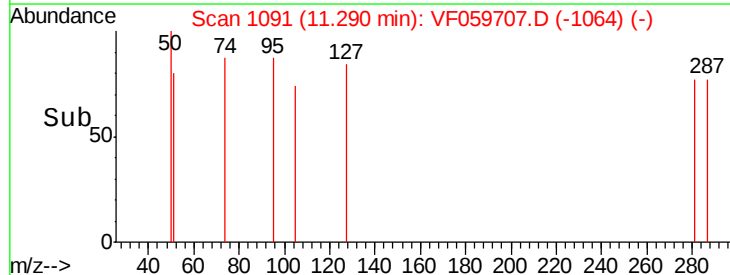
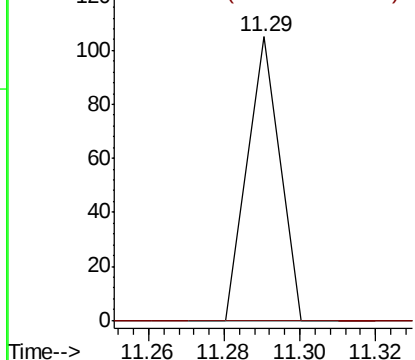
#73

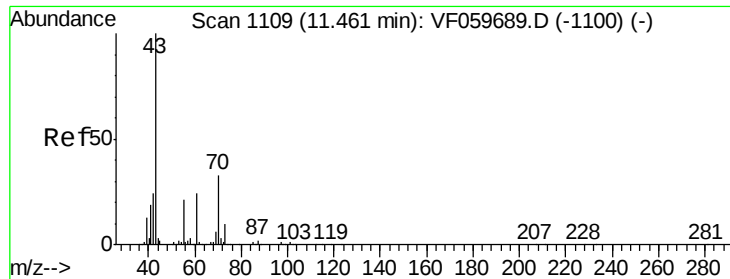
Isopropylbenzene
Concen: 2.041 ug/l
RT: 11.29 min Scan# 1091
Delta R.T. 0.07 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion:105 Resp: 62
Ion Ratio Lower Upper
105 100
120 0.0 12.4 37.4#



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





#74

N-amvl acetate

Concen: 81.154 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

Tot Ion: 43 Resp: 622

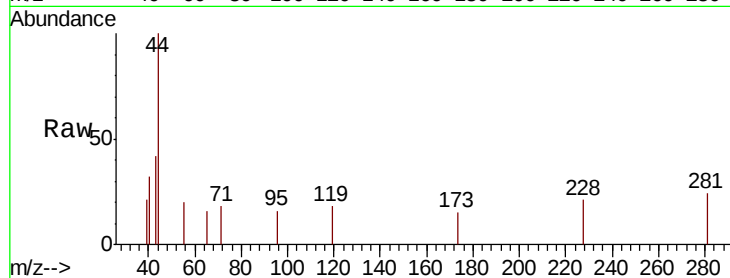
Ion Ratio Lower Upper

43 100

70 0.0 26.3 39.5#

55 48.7 16.6 25.0#

61 0.0 19.1 28.7#

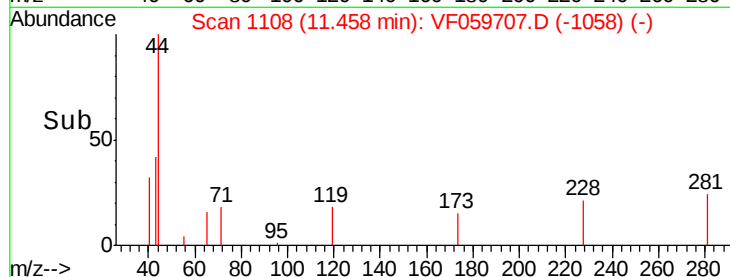
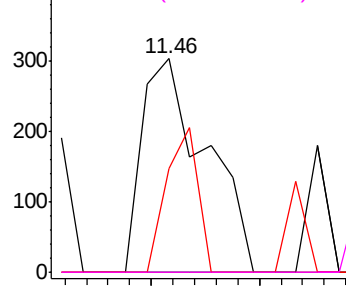


Abundance Ion 43.00 (42.70 to 43.70): VF0

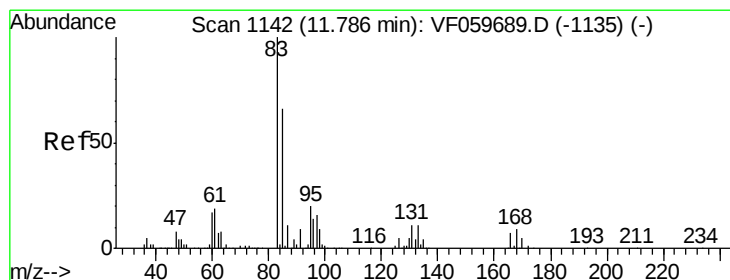
Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: 12.765 ug/l

RT: 11.74 min Scan# 1137

Delta R.T. -0.04 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

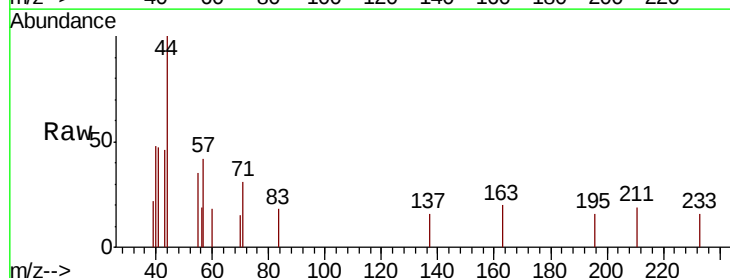
Tgt Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.3#

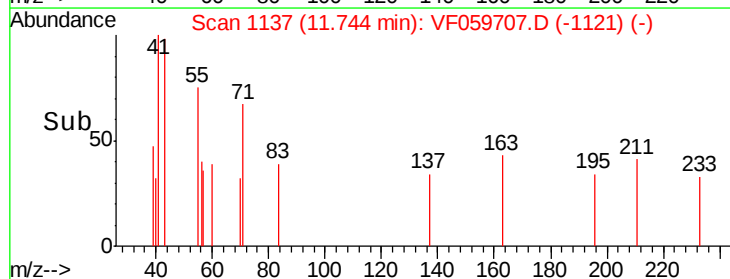
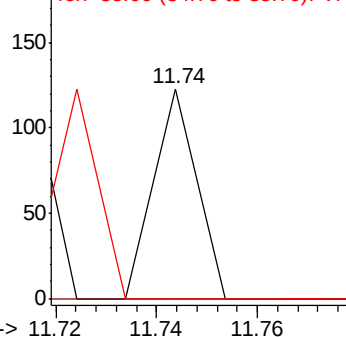
85 0.0 32.8 98.3#

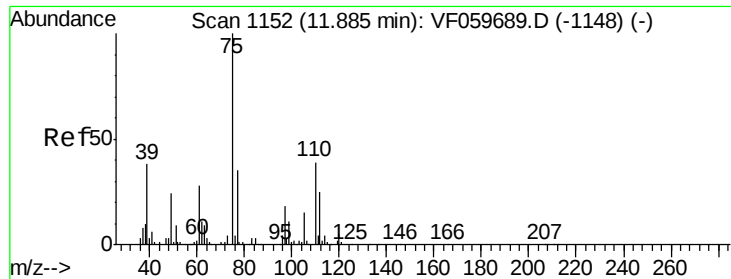


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

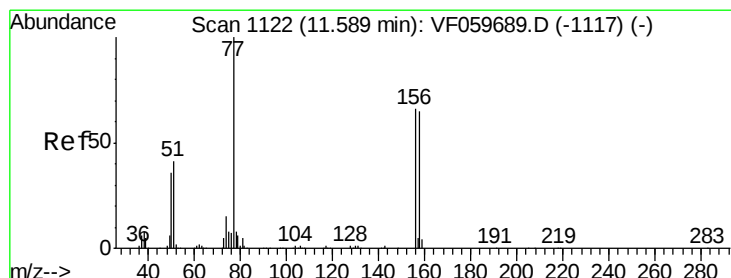
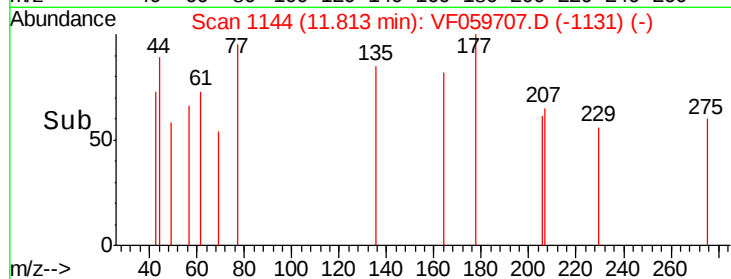
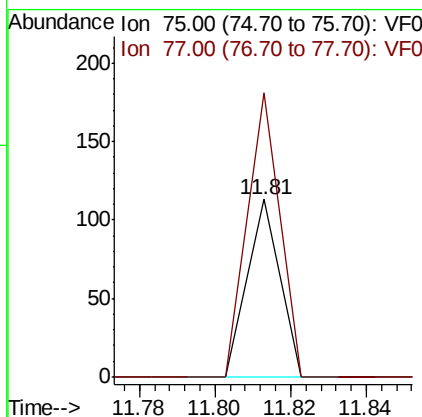
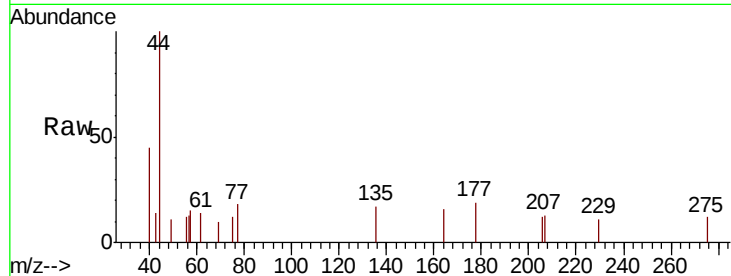




#76
 1,2,3-Trichloropropane
 Concen: 13.778 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. -0.07 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

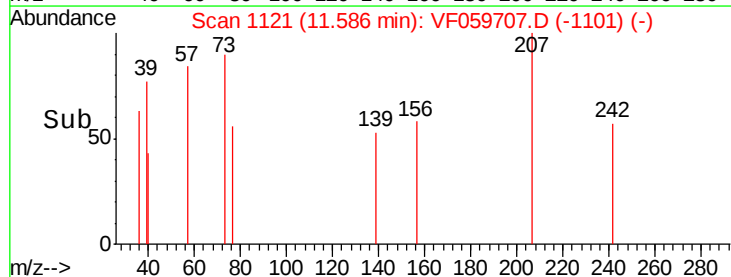
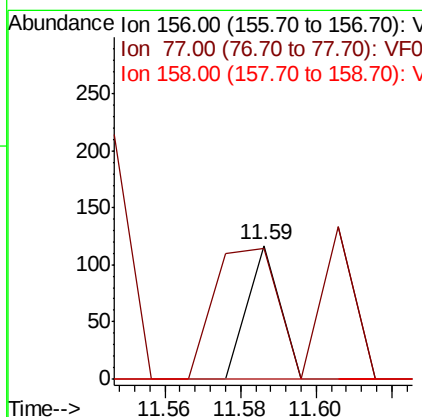
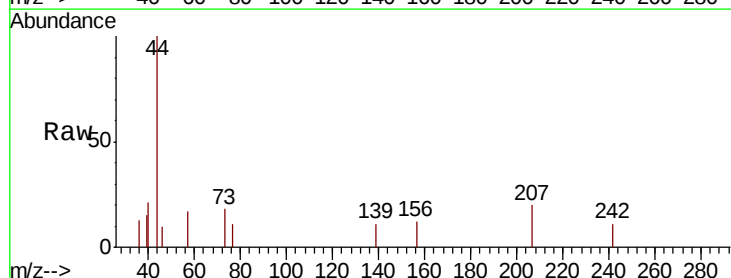
Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(90-92)

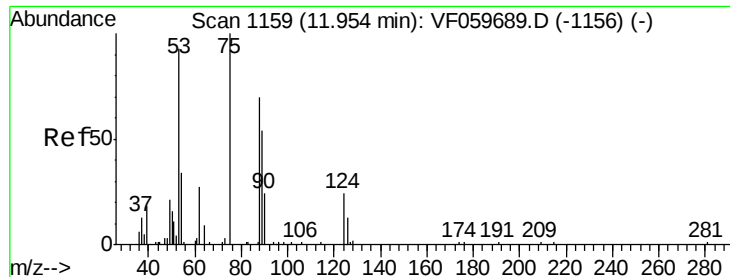
Tot Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 77 160.2 18.0 54.0#



#77
 Bromobenzene
 Concen: 8.698 ug/l
 RT: 11.59 min Scan# 1121
 Delta R.T. -0.00 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

Tgt Ion: 156 Resp: 69
 Ion Ratio Lower Upper
 156 100
 77 97.4 75.2 225.6
 158 0.0 49.1 147.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 29.297 ug/l

RT: 12.03 min Scan# 1166

Delta R.T. 0.08 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

EPE-F-8(90-92)

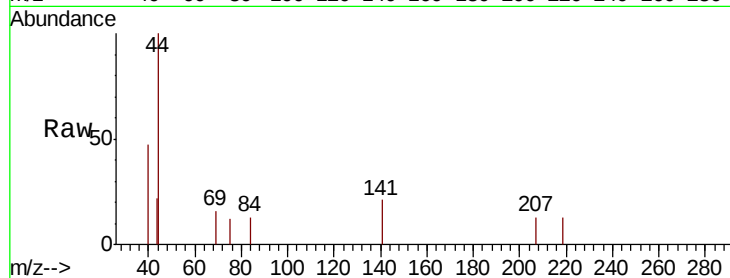
Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

53 0.0 78.3 117.5#

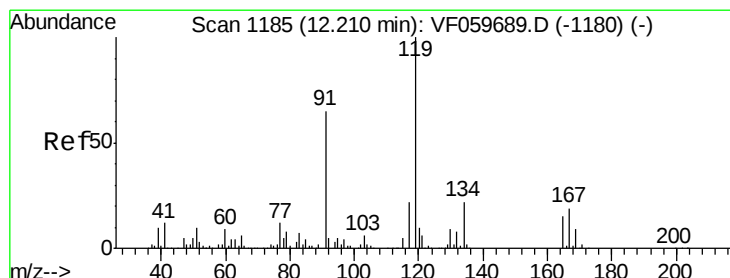
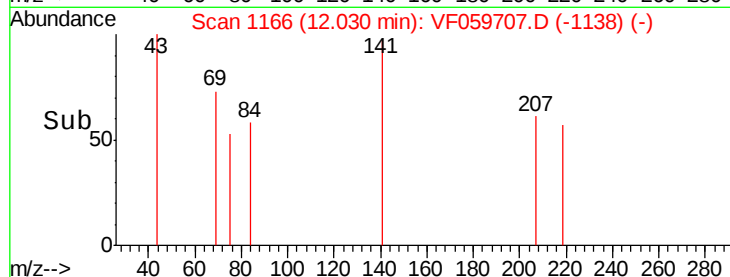
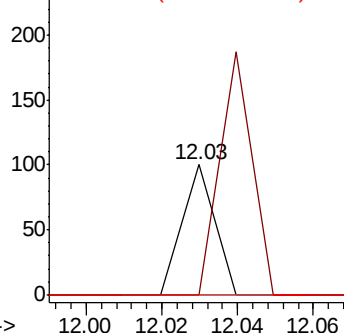
89 0.0 45.4 68.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#83

tert-Butylbenzene

Concen: 2.420 ug/l

RT: 12.33 min Scan# 1196

Delta R.T. 0.12 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

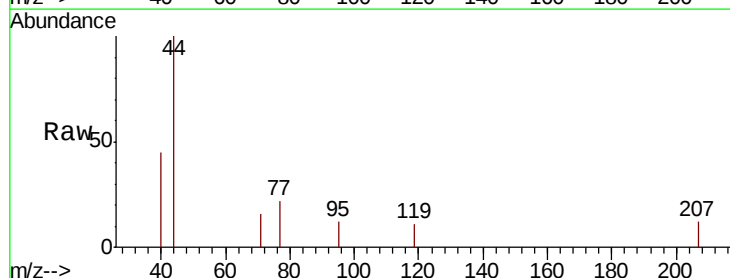
Tgt Ion: 119 Resp: 66

Ion Ratio Lower Upper

119 100

91 0.0 32.8 98.4#

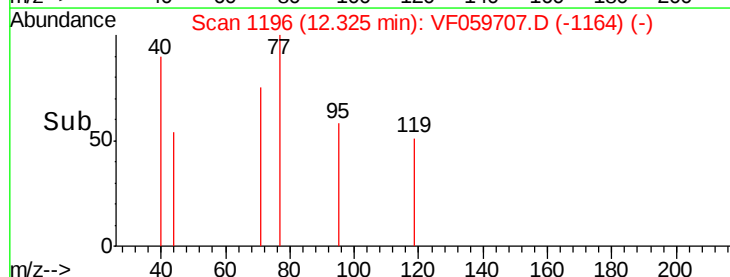
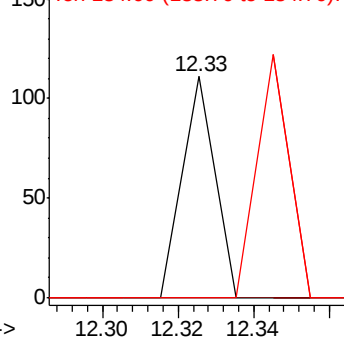
134 0.0 10.9 32.7#

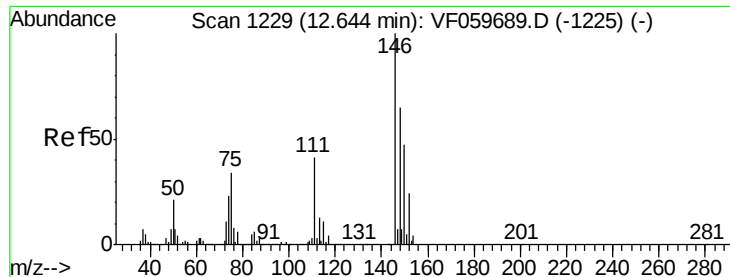


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

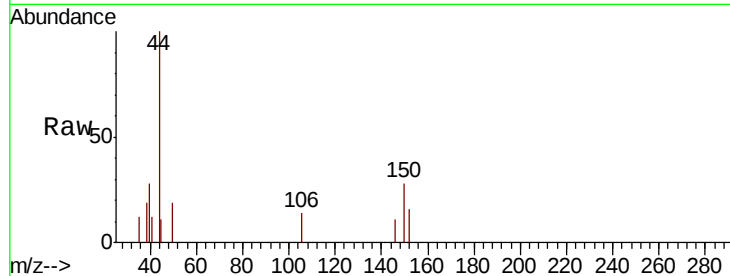




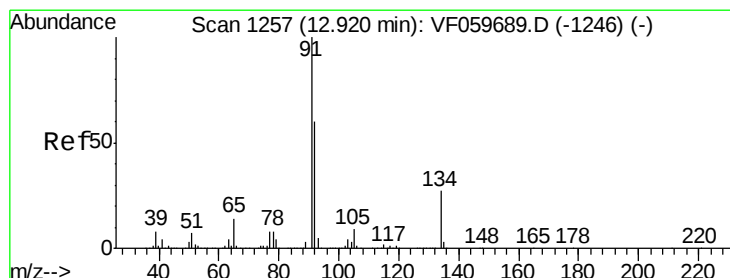
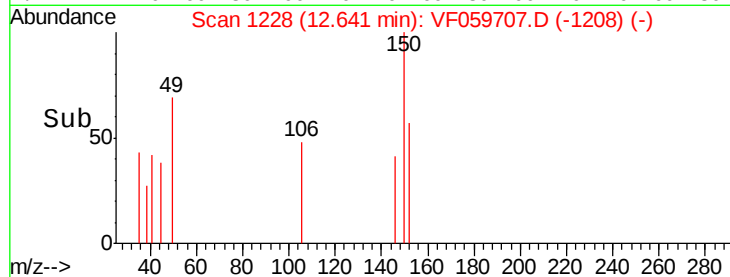
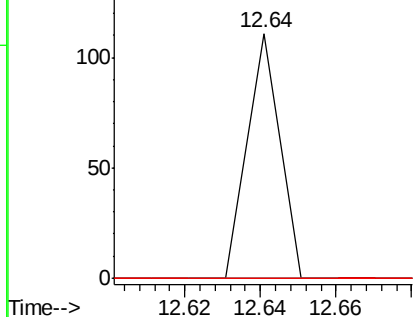
#88
 1,4-Dichlorobenzene
 Concen: 1.050 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. -0.00 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-F-8(90-92)

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.8	62.2#
148	0.0	32.3	96.9#

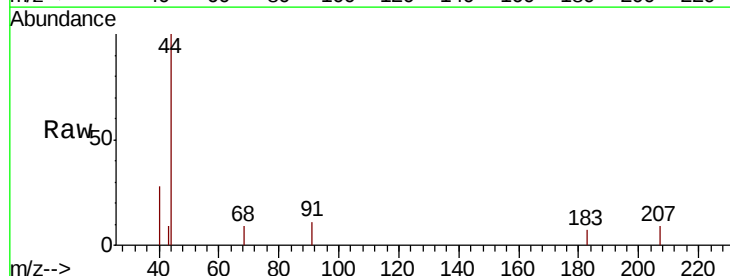


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

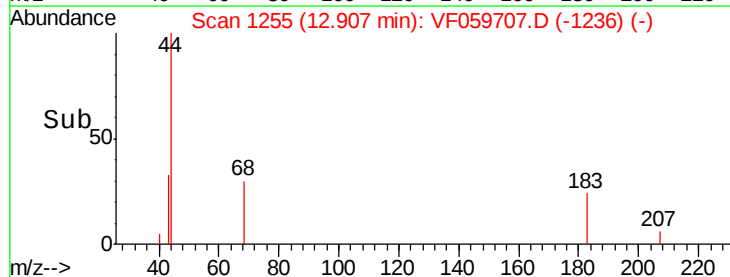
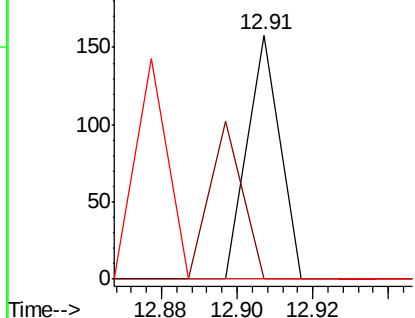


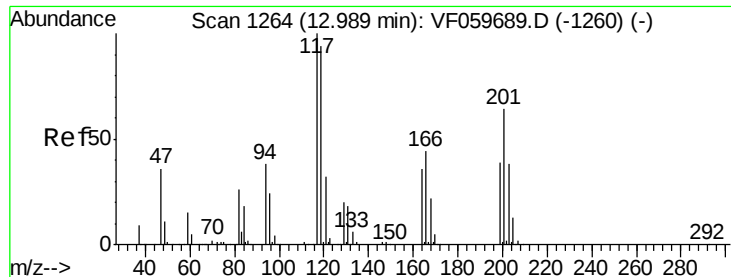
#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 12.91 min Scan# 1255
 Delta R.T. -0.01 min
 Lab File: VF059707.D
 Acq: 31 Jul 2018 14:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	30.1	90.3#
134	0.0	13.7	41.0#



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: 8.483 ug/l

RT: 12.94 min Scan# 1258

Delta R.T. -0.05 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

Instrument :

MSVOA_F

ClientSampleId :

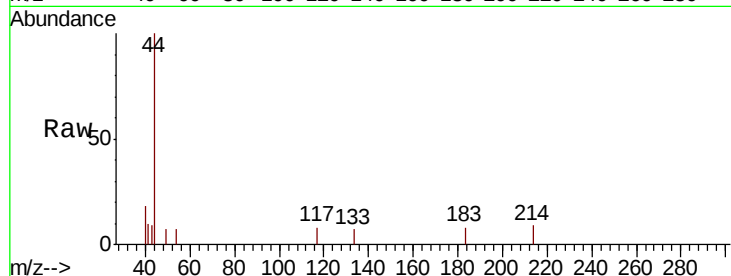
EPE-F-8(90-92)

Tot Ion:117 Resp: 65

Ion Ratio Lower Upper

117 100

201 0.0 31.9 95.5#

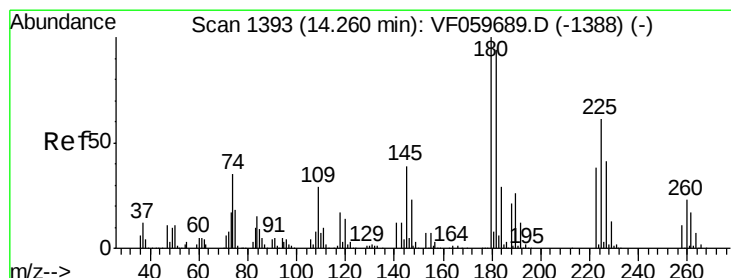
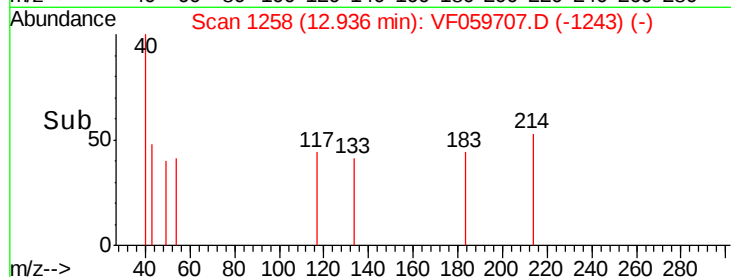


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

12.94

Time--> 12.90 12.92 12.94 12.96



#93

1,2,4-Trichlorobenzene

Concen: 2.054 ug/l

RT: 14.22 min Scan# 1388

Delta R.T. -0.04 min

Lab File: VF059707.D

Acq: 31 Jul 2018 14:15

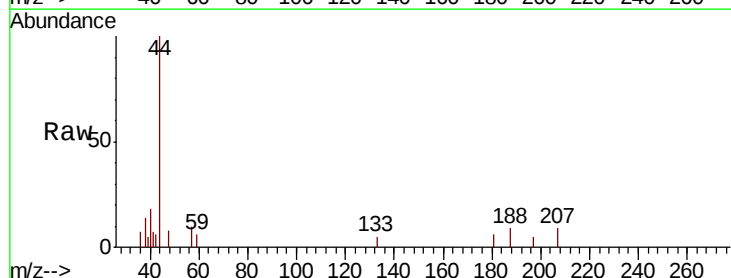
Tgt Ion:180 Resp: 67

Ion Ratio Lower Upper

180 100

182 0.0 47.2 141.6#

145 0.0 19.3 57.9#



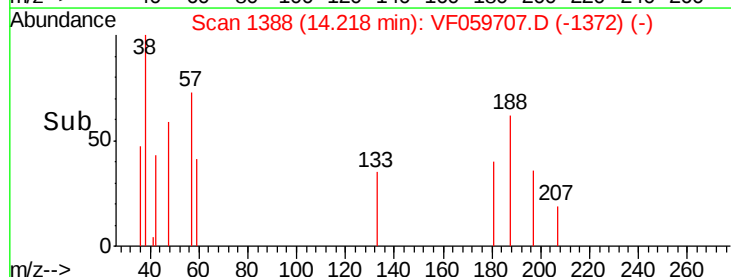
Abundance Ion 180.00 (179.70 to 180.70): V

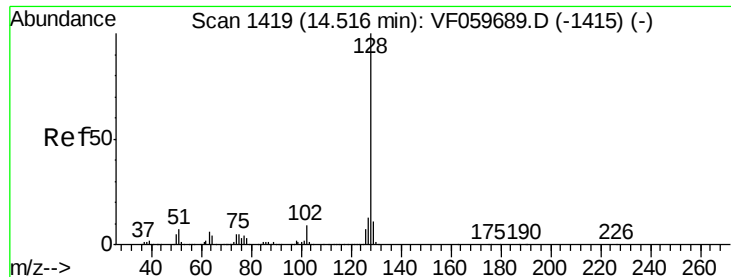
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

14.22

Time--> 14.18 14.20 14.22 14.24

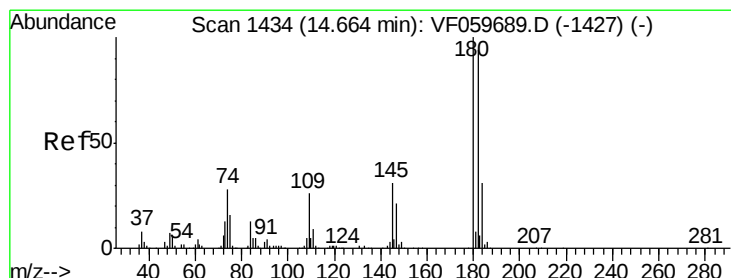
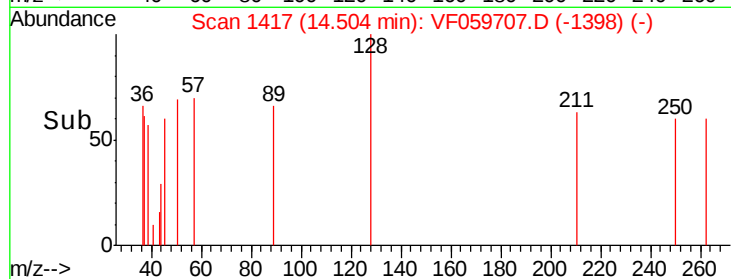
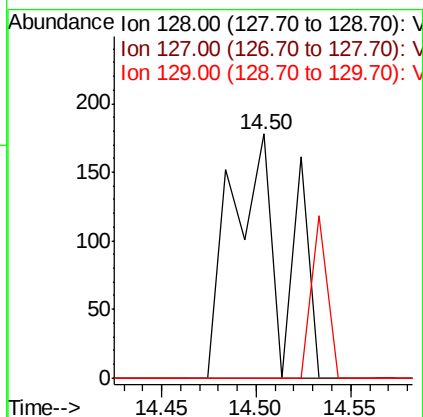
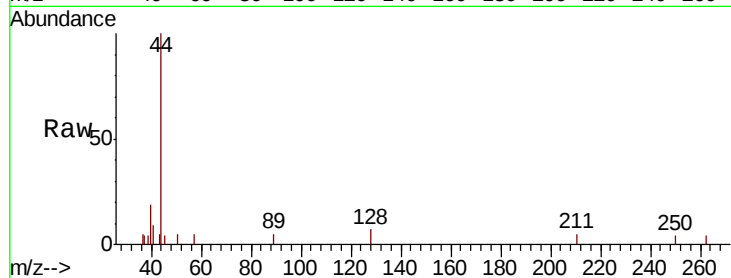




#95
Naphthalene
Concen: 17.533 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Instrument :
MSVOA_F
ClientSampleId :
EPE-F-8(90-92)

Tot Ion:128 Resp: 350
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 6.797 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. -0.01 min
Lab File: VF059707.D
Acq: 31 Jul 2018 14:15

Tgt Ion:180 Resp: 75
Ion Ratio Lower Upper
180 100
182 0.0 47.2 141.6#
145 0.0 15.6 46.7#

