

Data File : VF059970.D
Acq On : 16 Aug 2018 20:09
Operator : VA/AP
Sample : VSTDIC020
Misc : 5.00g/5mL/MSVOA_F/SOIL
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Quant Time: Aug 17 04:41:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081618S.M
Quant Title : SW846 8260
QLast Update : Fri Aug 17 04:39:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	122386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	172005	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	182305	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	130748	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.02	65	56823	25.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.96%	
35) Dibromofluoromethane	4.29	113	36881	21.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.20%	
50) Toluene-d8	7.72	98	77642	20.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.82%	
62) 4-Bromofluorobenzene	11.51	95	50319	23.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	46.72%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.95	85	41926	22.684	ug/l	99
3) Chloromethane	1.07	50	19811	25.132	ug/l	98
4) Vinyl Chloride	1.12	62	21567	23.114	ug/l	94
5) Bromomethane	1.32	94	21917	25.960	ug/l	91
6) Chloroethane	1.39	64	12487	21.154	ug/l	94
7) Trichlorofluoromethane	1.47	101	30538	11.520	ug/l	98
8) Diethyl Ether	1.71	74	10345	26.033	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.86	101	33210	24.198	ug/l	95
10) Methyl Iodide	1.93	142	44914	21.919	ug/l	91
11) Tert butyl alcohol	2.71	59	20751	201.543	ug/l	98
12) 1,1-Dichloroethene	1.82	96	23305	23.557	ug/l	98
13) Acrolein	2.10	56	6687	125.093	ug/l	97
14) Allyl chloride	2.19	41	41998	28.462	ug/l	93
15) Acrylonitrile	3.08	53	32055	201.009	ug/l	98
16) Acetone	2.34	43	100543	196.111	ug/l	97
17) Carbon Disulfide	1.83	76	77786	29.121	ug/l	99
18) Methyl Acetate	2.46	43	48349	60.583	ug/l	100
19) Methyl tert-butyl Ether	2.54	73	87016	28.618	ug/l	93
20) Methylene Chloride	2.27	84	30124	26.157	ug/l	92
21) trans-1,2-Dichloroethene	2.41	96	25376	25.857	ug/l	88
22) Diisopropyl ether	2.93	45	83854	24.711	ug/l	96
23) Vinyl Acetate	3.33	43	187936	114.861	ug/l	98
24) 1,1-Dichloroethane	3.00	63	57072	24.080	ug/l	99
25) 2-Butanone	4.51	43	75539	156.841	ug/l	100
26) 2,2-Dichloropropane	3.75	77	52970	32.081	ug/l	95
27) cis-1,2-Dichloroethene	3.63	96	22989	21.839	ug/l	91
28) Bromochloromethane	3.89	49	17480	21.026	ug/l #	88
29) Tetrahydrofuran	4.27	42	30367	179.540	ug/l	94
30) Chloroform	4.04	83	68693	21.984	ug/l	93
31) Cyclohexane	3.85	56	25149	22.504	ug/l #	93
32) 1,1,1-Trichloroethane	4.28	97	65572	24.814	ug/l	97
36) 1,1-Dichloropropene	4.46	75	39951	20.967	ug/l	96
37) Ethyl Acetate	4.29	43	31574	33.951	ug/l #	81
38) Carbon Tetrachloride	4.17	117	50224	16.235	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	27729	20.060	ug/l	99
40) Benzene	4.81	78	67400	21.046	ug/l	91
41) Methacrylonitrile	4.93	41	14584	32.943	ug/l	93
42) 1,2-Dichloroethane	5.11	62	67574	25.649	ug/l	100
43) Isopropyl Acetate	7.12	43	30565	30.091	ug/l #	90
44) Trichloroethene	5.67	130	26416	21.275	ug/l	99
45) 1,2-Dichloropropane	6.40	63	19320	22.237	ug/l #	86
46) Dibromomethane	6.26	93	22334	25.370	ug/l	92
47) Bromodichloromethane	6.55	83	53347	21.590	ug/l	99
48) Methyl methacrylate	6.88	41	23268	31.187	ug/l	96
49) 1,4-Dioxane	6.89	88	3903	648.135	ug/l #	82
51) 4-Methyl-2-Pentanone	8.41	43	154199	159.788	ug/l	99
52) Toluene	7.78	92	51147	21.330	ug/l	99
53) t-1,3-Dichloropropene	8.43	75	48368	23.576	ug/l	97
54) cis-1,3-Dichloropropene	7.46	75	44479	22.910	ug/l	96
55) 1,1,2-Trichloroethane	8.64	97	23343	26.906	ug/l	85
56) Ethyl methacrylate	8.76	69	26934	27.761	ug/l	85
57) 1,3-Dichloropropane	9.00	76	40132	25.251	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.77	63	13027	110.189	ug/l	100
59) 2-Hexanone	9.64	43	126345	174.181	ug/l	95
60) Dibromochloromethane	8.87	129	38445	22.825	ug/l	99
61) 1,2-Dibromoethane	9.13	107	30357	27.651	ug/l	92
64) Tetrachloroethene	8.31	164	31648	22.353	ug/l	92
65) Chlorobenzene	9.94	112	71309	20.270	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	32534	19.173	ug/l	98
67) Ethyl Benzene	10.04	91	128228	20.580	ug/l	98
68) m/p-Xylenes	10.27	106	88376	42.091	ug/l	95
69) o-Xylene	10.83	106	45859	20.147	ug/l	99
70) Styrene	10.91	104	75315	22.054	ug/l	99
71) Bromoform	10.89	173	29021	25.910	ug/l	96
73) Isopropylbenzene	11.23	105	149142	18.449	ug/l	100
74) N-amyl acetate	11.47	43	50806	25.930	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.79	83	35767	24.436	ug/l	95
76) 1,2,3-Trichloropropane	11.88	75	35649	28.088	ug/l	97
77) Bromobenzene	11.60	156	43835	20.303	ug/l	96
78) n-propylbenzene	11.69	91	187493	19.676	ug/l	99
79) 2-Chlorotoluene	11.82	91	113426	18.939	ug/l	99
80) 1,3,5-Trimethylbenzene	11.91	105	138787	18.419	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.95	75	17626	33.202	ug/l	92
82) 4-Chlorotoluene	11.99	91	133181	20.093	ug/l	94
83) tert-Butylbenzene	12.22	119	141549	19.193	ug/l	95
84) 1,2,4-Trimethylbenzene	12.29	105	150520	19.872	ug/l	97
85) sec-Butylbenzene	12.39	105	176953	18.857	ug/l	96
86) p-Isopropyltoluene	12.55	119	156954	18.918	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	83632	20.534	ug/l	97
88) 1,4-Dichlorobenzene	12.64	146	84156	21.046	ug/l	96
89) n-Butylbenzene	12.92	91	153184	19.080	ug/l	97
90) Hexachloroethane	13.00	117	34392	16.900	ug/l	95
91) 1,2-Dichlorobenzene	13.02	146	83970	21.027	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.72	75	10872	26.340	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF081618\
Quantitation Report (Not Reviewed)

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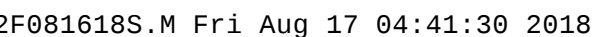
Instrument :
MSVOA_F
ClientSampleId :
VSTDICC020

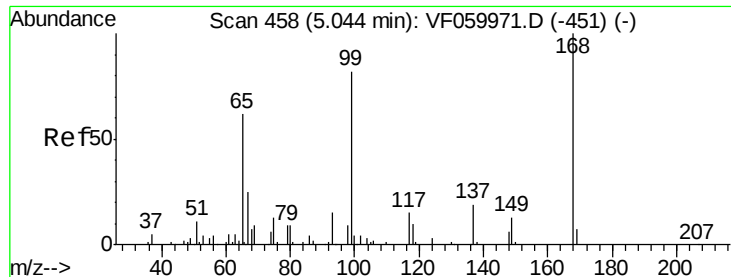
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	83696	26.391	ug/l	96
94) Hexachlorobutadiene	14.26	225	42293	18.996	ug/l	99
95) Naphthalene	14.53	128	123558	23.221	ug/l	98
96) 1,2,3-Trichlorobenzene	14.66	180	65361	21.430	ug/l	90

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

Quant Time: Aug 17 04:41:11 2018
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.00 min

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Instrument :

MSVOA_F

ClientSampleId :

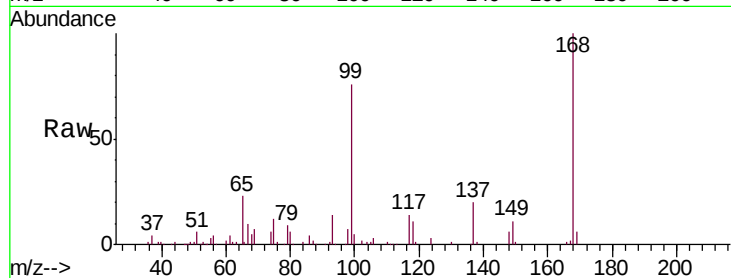
VSTDIC020

Tgt Ion:168 Resp: 122386

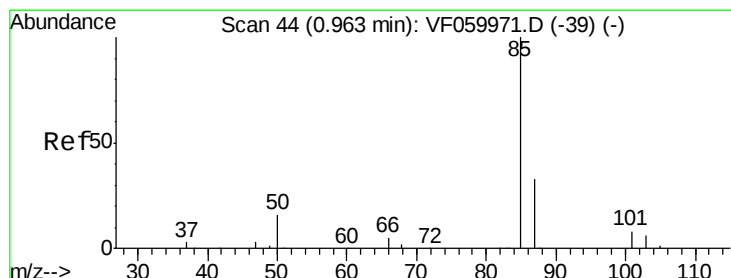
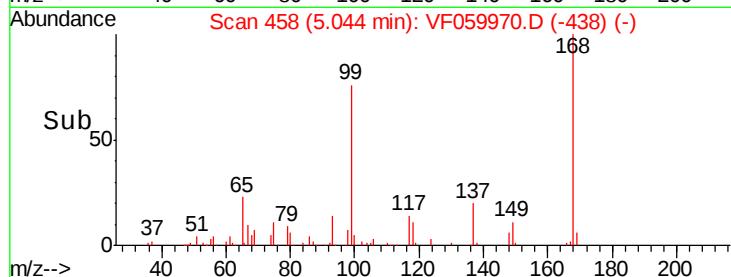
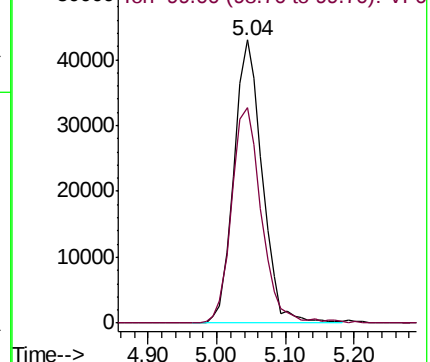
Ion Ratio Lower Upper

168 100

99 76.4 65.7 98.5



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 22.684 ug/l

RT: 0.95 min Scan# 43

Delta R.T. -0.01 min

Lab File: VF059970.D

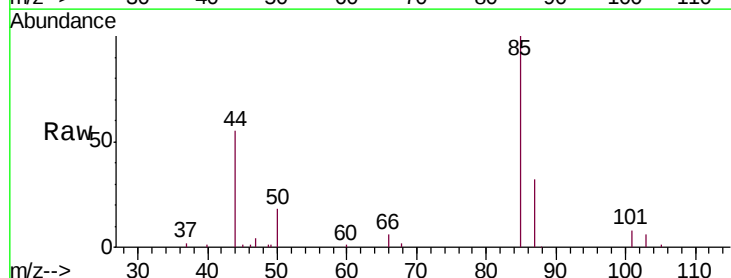
Acq: 16 Aug 2018 20:09

Tgt Ion: 85 Resp: 41926

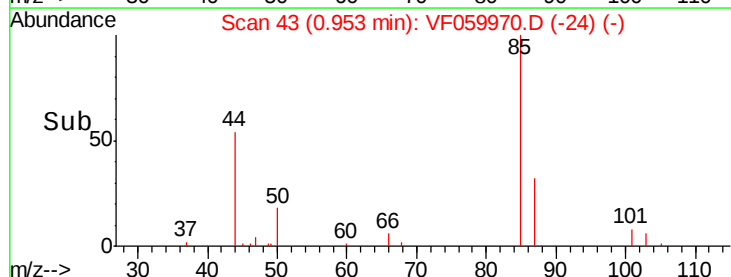
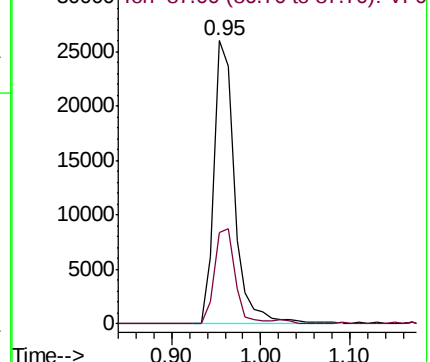
Ion Ratio Lower Upper

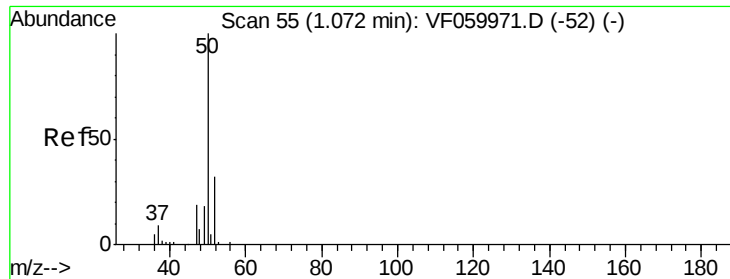
85 100

87 32.3 16.4 49.4



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 25.132 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

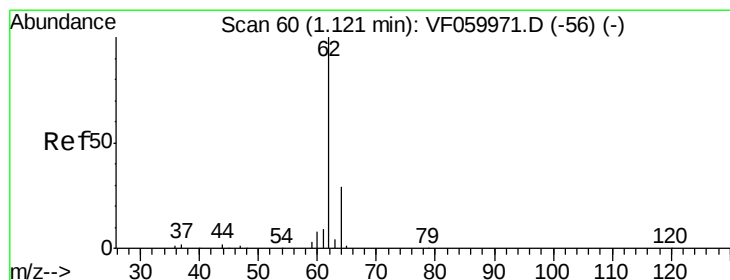
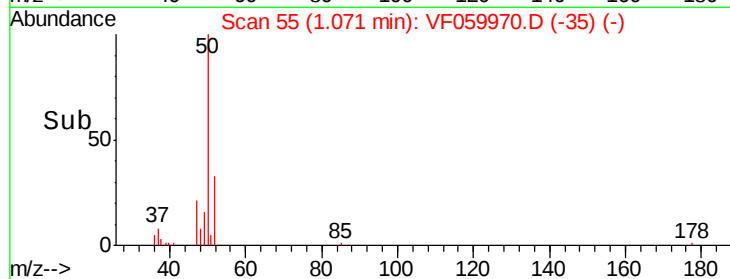
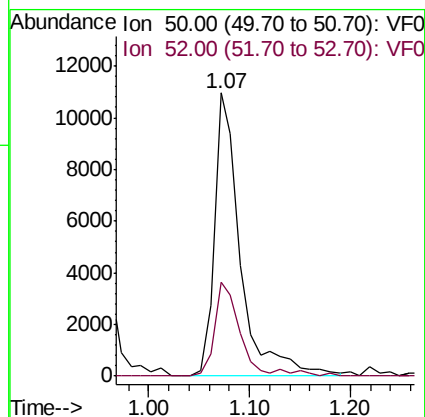
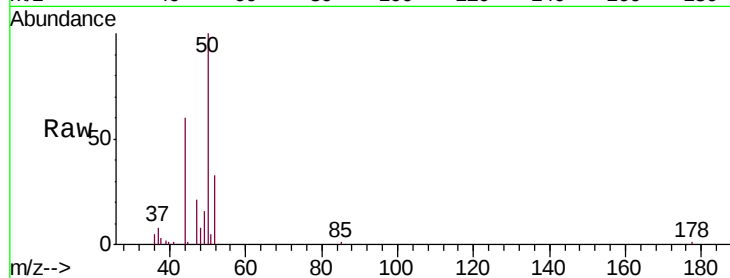
VSTDIC020

Tgt Ion: 50 Resp: 19811

Ion Ratio Lower Upper

50 100

52 33.0 25.7 38.5



#4

Vinyl Chloride

Concen: 23.114 ug/l

RT: 1.12 min Scan# 60

Delta R.T. -0.00 min

Lab File: VF059970.D

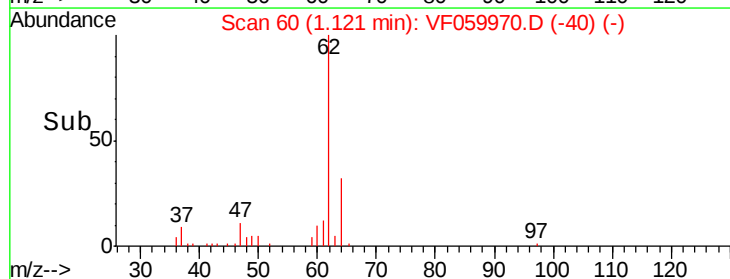
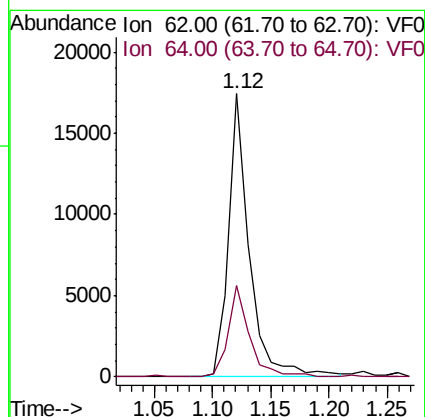
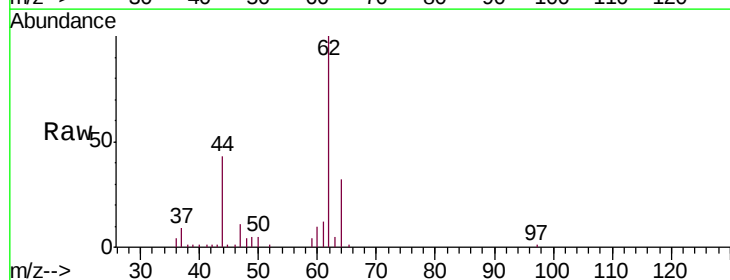
Acq: 16 Aug 2018 20:09

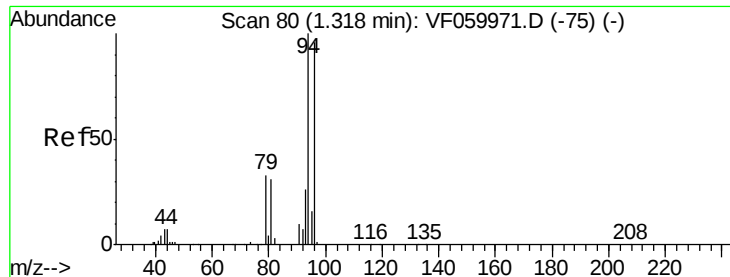
Tgt Ion: 62 Resp: 21567

Ion Ratio Lower Upper

62 100

64 32.1 23.1 34.7





#5

Bromomethane

Concen: 25.960 ug/l

RT: 1.32 min Scan# 80

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

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ClientSampleId :

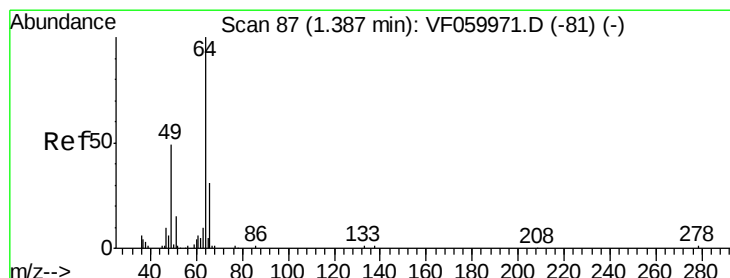
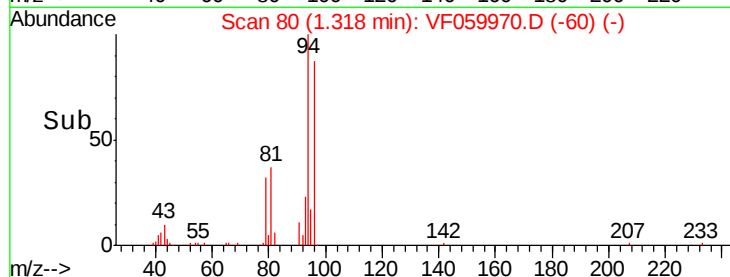
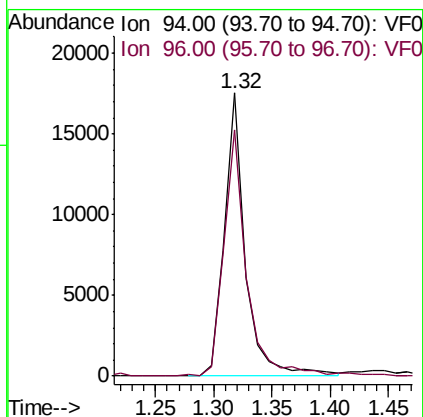
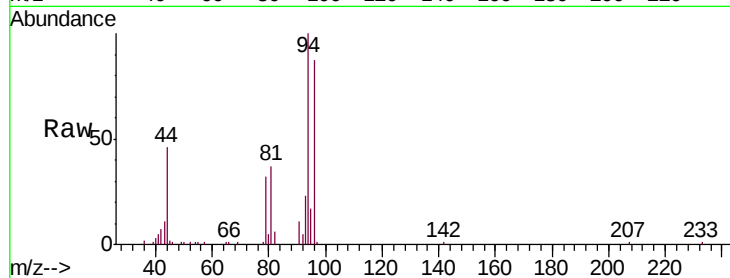
VSTDIC020

Tgt Ion: 94 Resp: 21917

Ion Ratio Lower Upper

94 100

96 86.8 76.7 115.1



#6

Chloroethane

Concen: 21.154 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.00 min

Lab File: VF059970.D

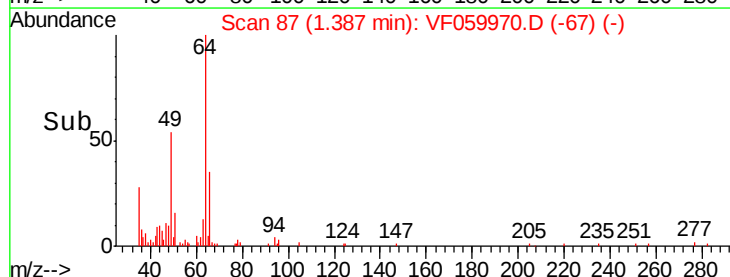
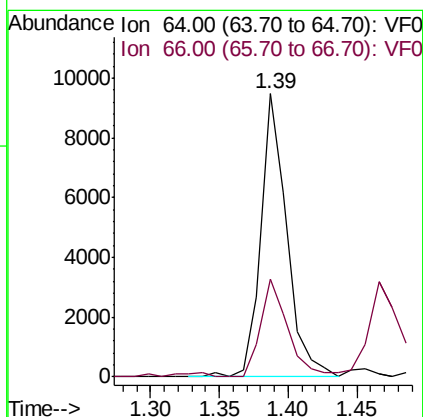
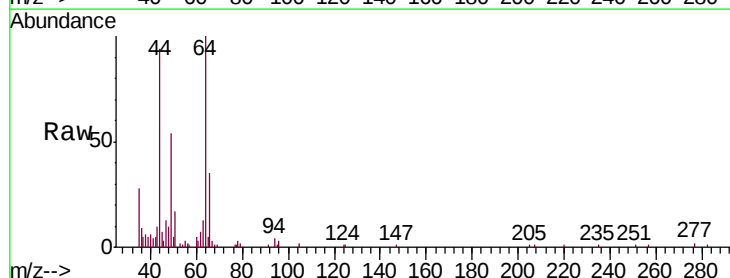
Acq: 16 Aug 2018 20:09

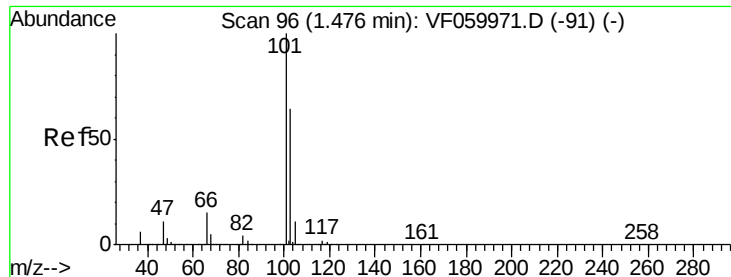
Tgt Ion: 64 Resp: 12487

Ion Ratio Lower Upper

64 100

66 34.6 25.0 37.4





#7

Trichlorofluoromethane

Concen: 11.520 ug/l

RT: 1.47 min Scan# 95

Delta R.T. -0.01 min

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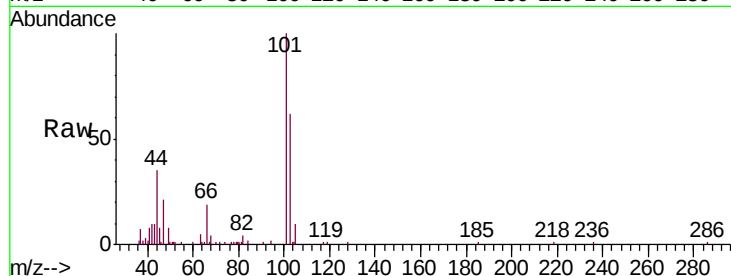
VSTDIC020

Tgt Ion:101 Resp: 30538

Ion Ratio Lower Upper

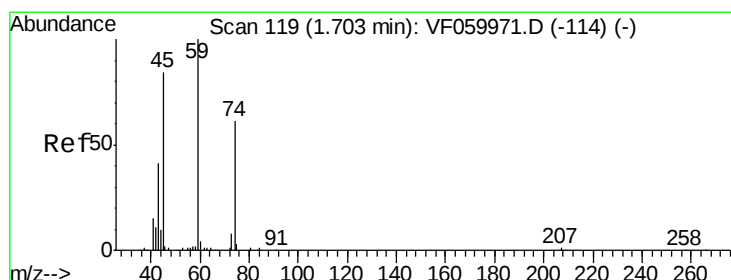
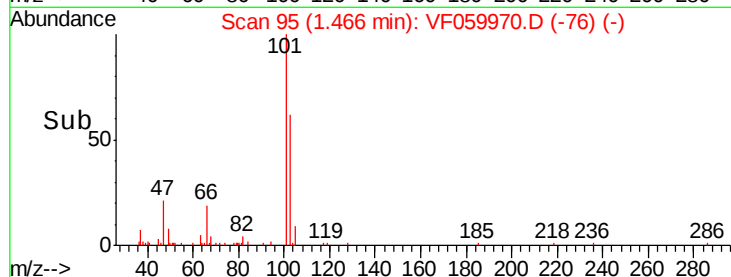
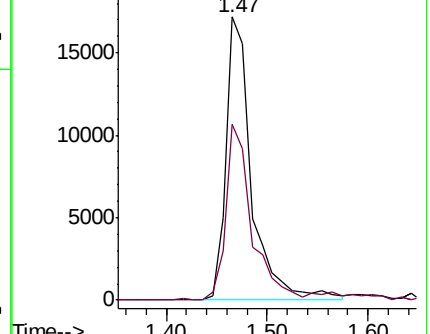
101 100

103 62.0 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 26.033 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF059970.D

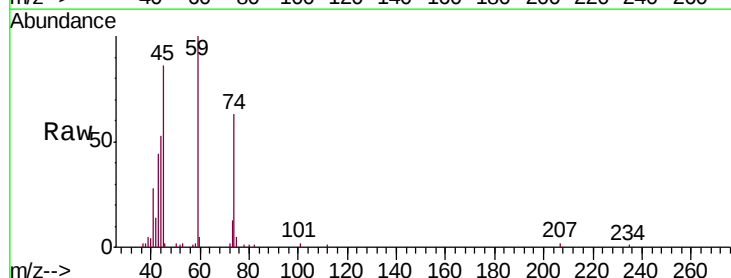
Acq: 16 Aug 2018 20:09

Tgt Ion: 74 Resp: 10345

Ion Ratio Lower Upper

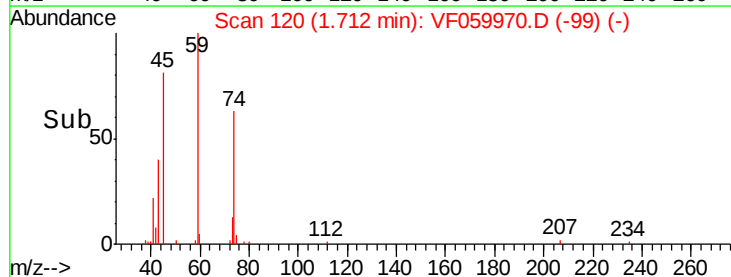
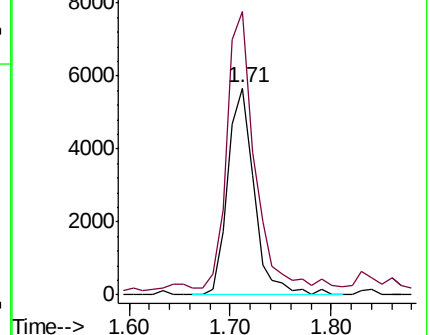
74 100

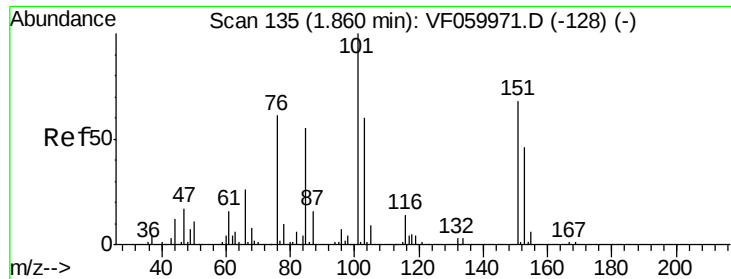
45 137.0 69.8 209.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.198 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.00 min

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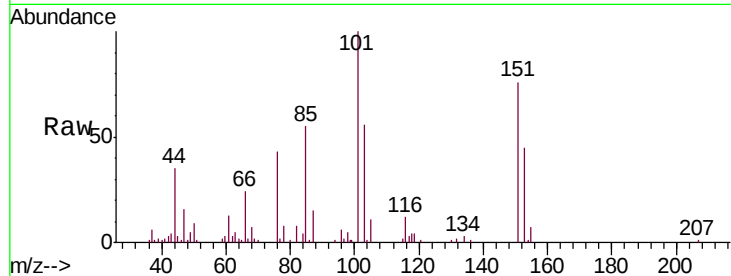
Tgt Ion:101 Resp: 33210

Ion Ratio Lower Upper

101 100

85 54.7 44.2 66.4

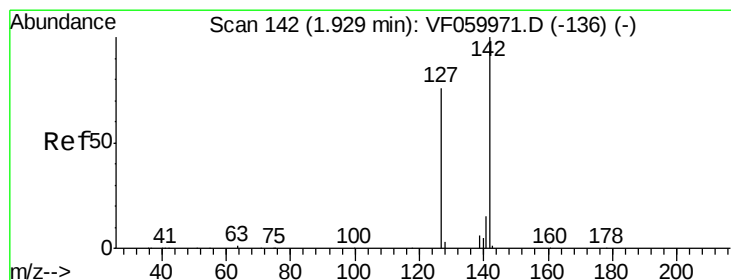
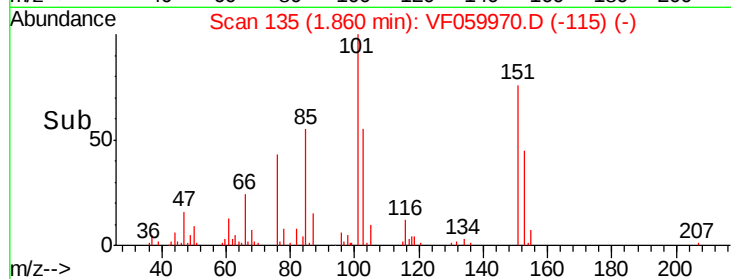
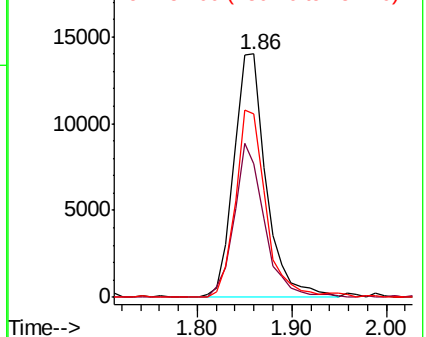
151 75.6 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 21.919 ug/l

RT: 1.93 min Scan# 142

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

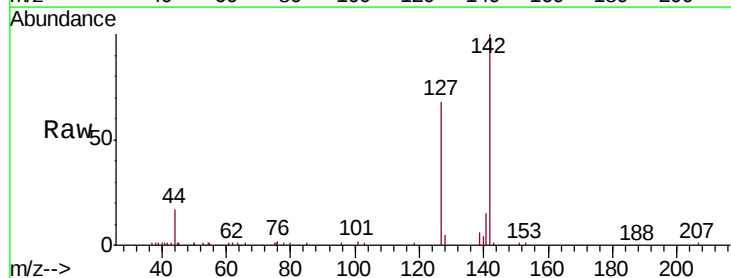
Tgt Ion:142 Resp: 44914

Ion Ratio Lower Upper

142 100

127 67.5 61.0 91.6

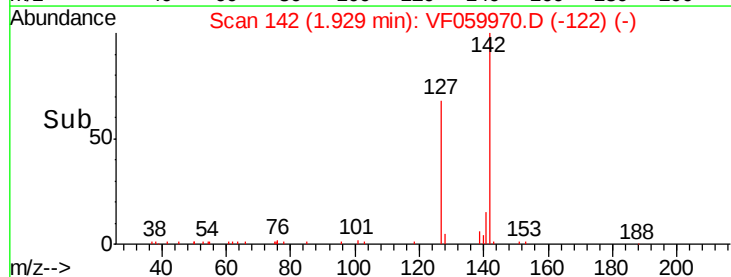
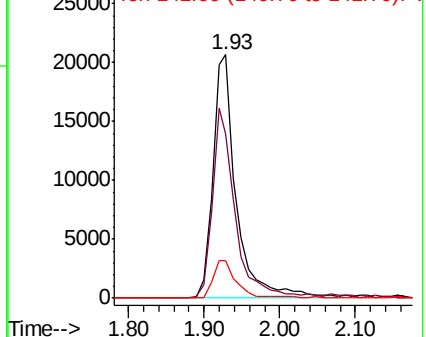
141 15.3 12.1 18.1

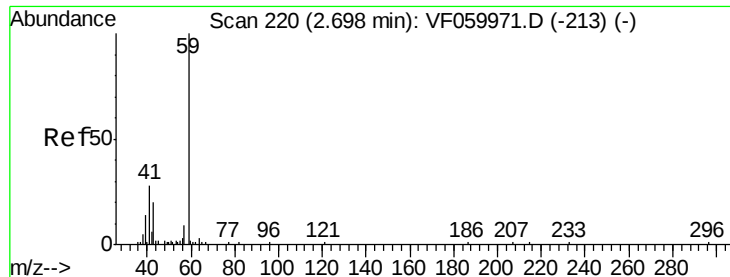


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

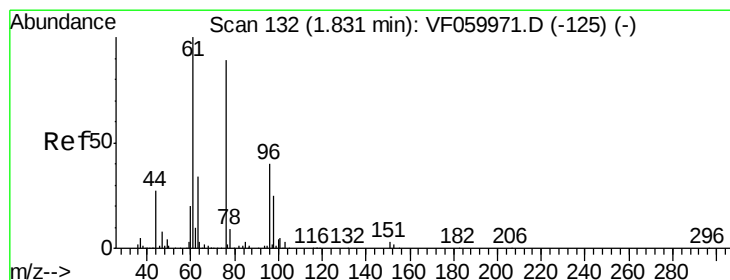
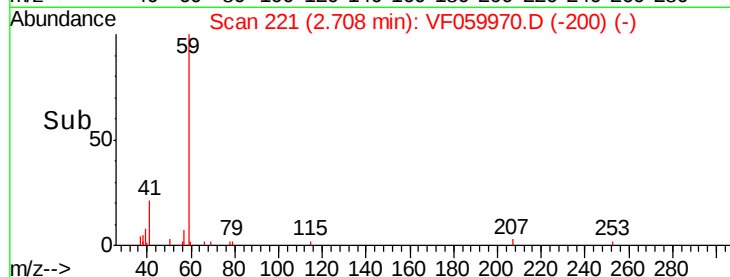
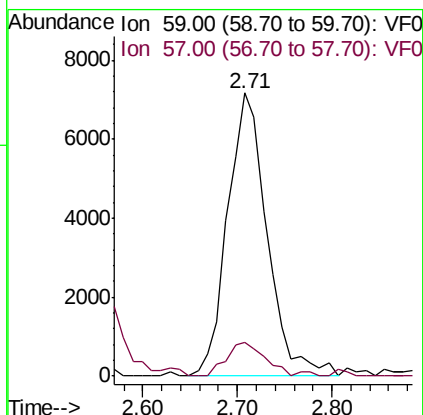
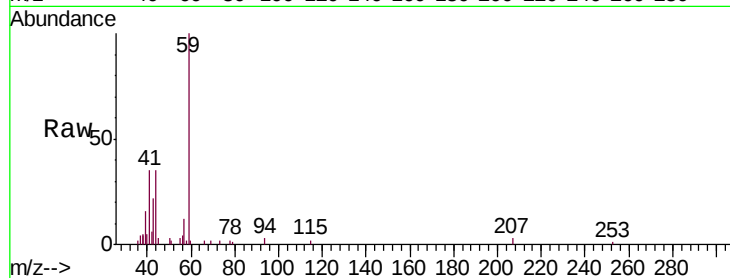




#11
Tert butyl alcohol
Concen: 201.543 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

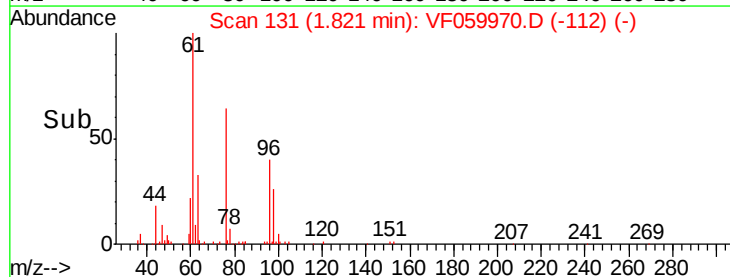
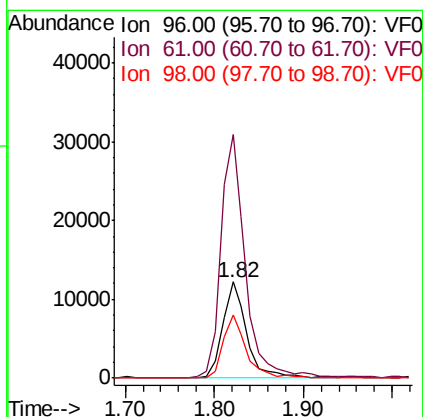
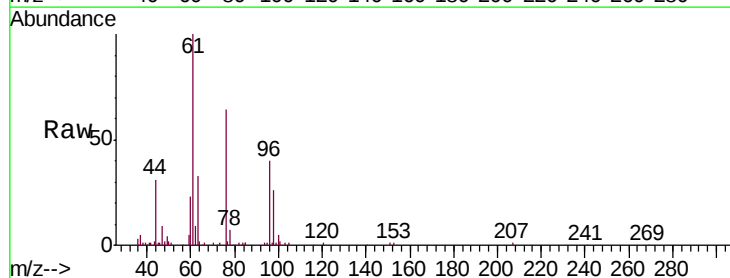
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

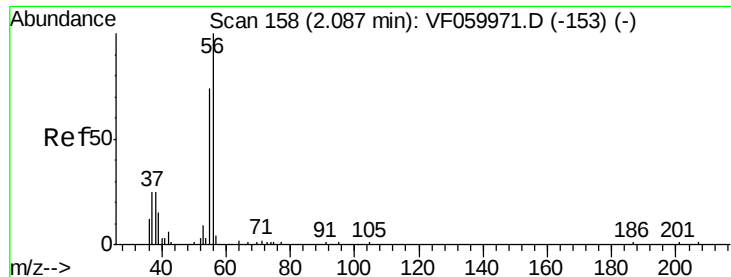
Tgt Ion: 59 Resp: 20751
Ion Ratio Lower Upper
59 100
57 11.7 8.8 13.2



#12
1,1-Dichloroethene
Concen: 23.557 ug/l
RT: 1.82 min Scan# 131
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 96 Resp: 23305
Ion Ratio Lower Upper
96 100
61 253.2 200.0 300.0
98 65.3 49.8 74.8





#13

Acrolein

Concen: 125.093 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

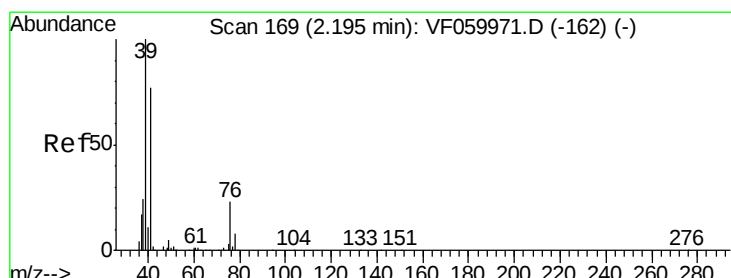
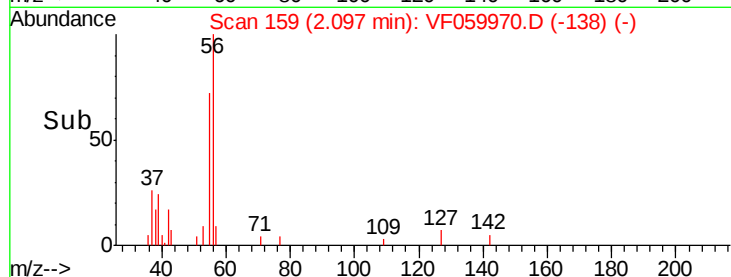
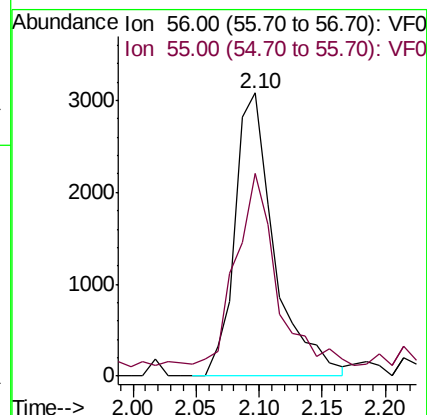
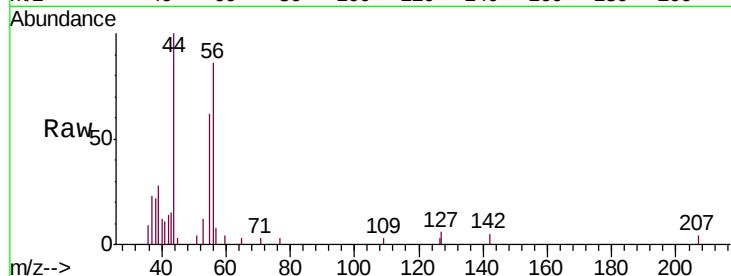
VSTDIC020

Tgt Ion: 56 Resp: 6687

Ion Ratio Lower Upper

56 100

55 71.8 59.2 88.8



#14

Allyl chloride

Concen: 28.462 ug/l

RT: 2.19 min Scan# 168

Delta R.T. -0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

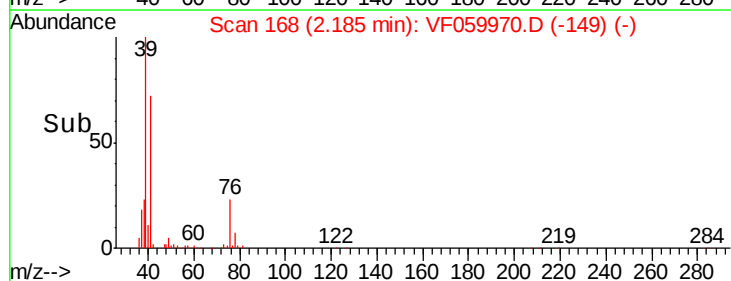
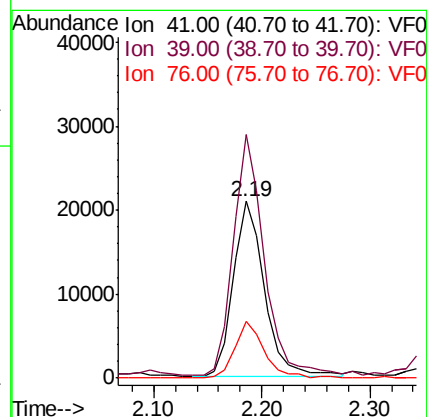
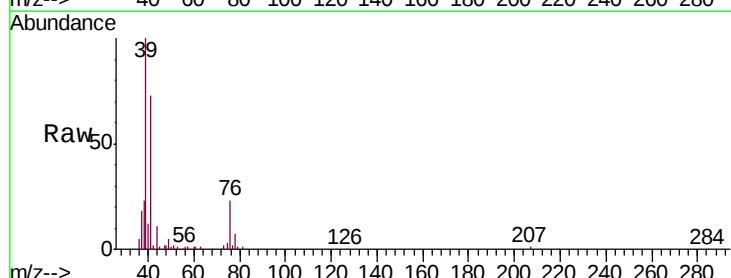
Tgt Ion: 41 Resp: 41998

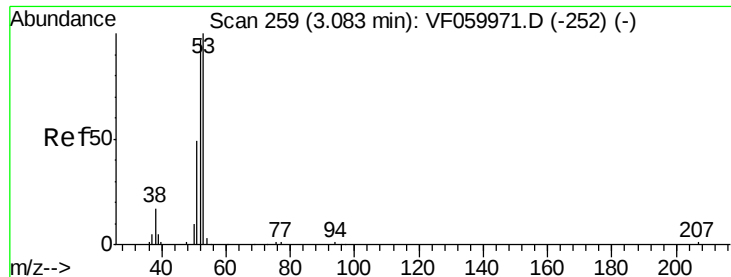
Ion Ratio Lower Upper

41 100

39 137.7 103.6 155.4

76 32.3 23.5 35.3





#15

Acrylonitrile

Concen: 201.009 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

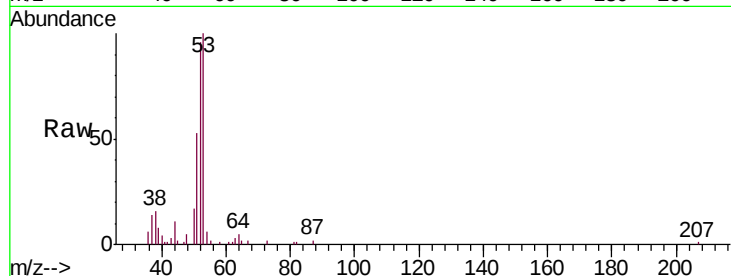
Tgt Ion: 53 Resp: 32055

Ion Ratio Lower Upper

53 100

52 95.8 77.6 116.4

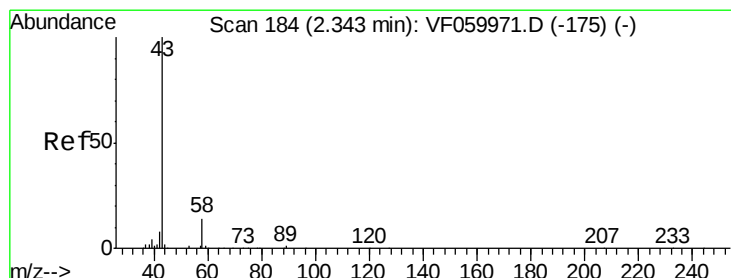
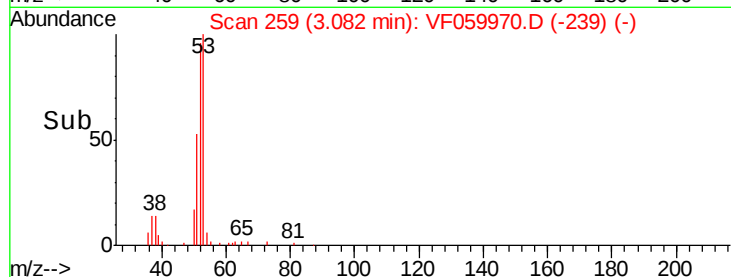
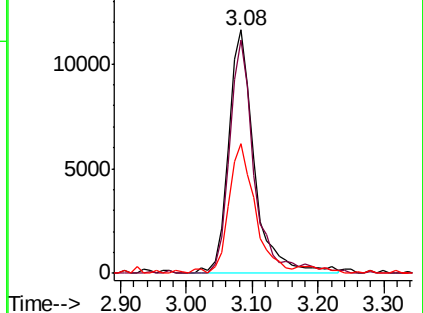
51 53.4 40.2 60.2



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: 196.111 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF059970.D

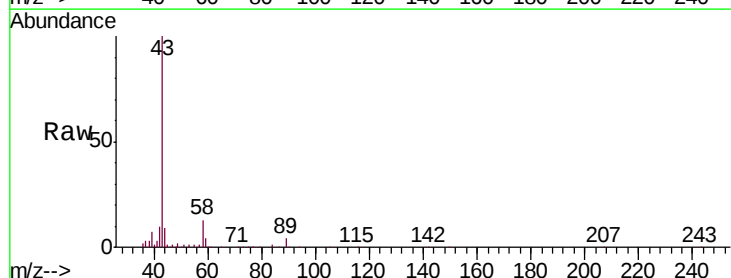
Acq: 16 Aug 2018 20:09

Tgt Ion: 43 Resp: 100543

Ion Ratio Lower Upper

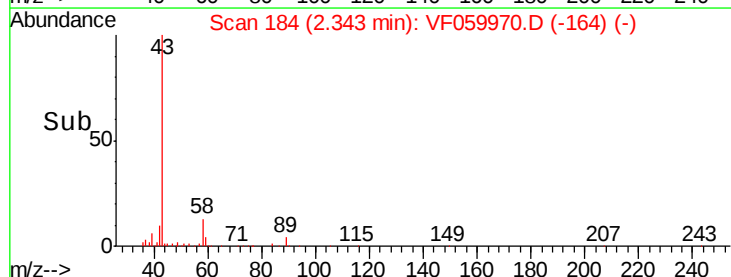
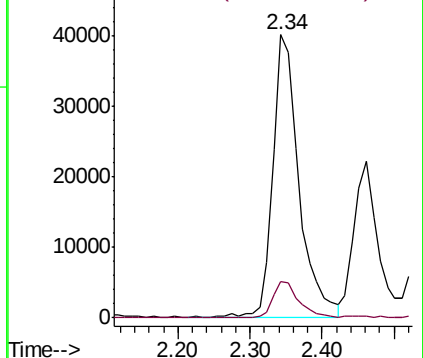
43 100

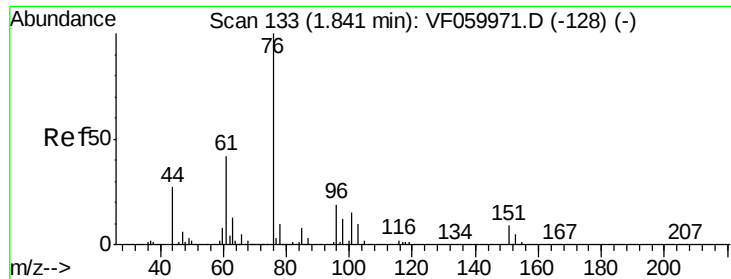
58 12.9 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

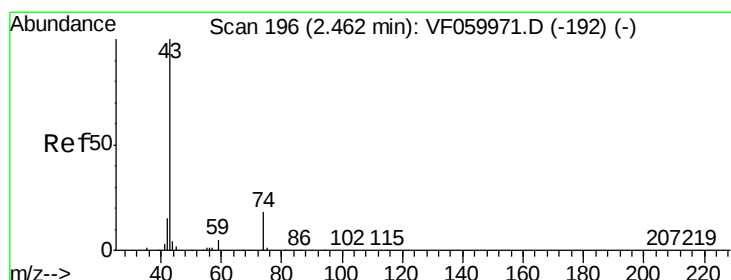
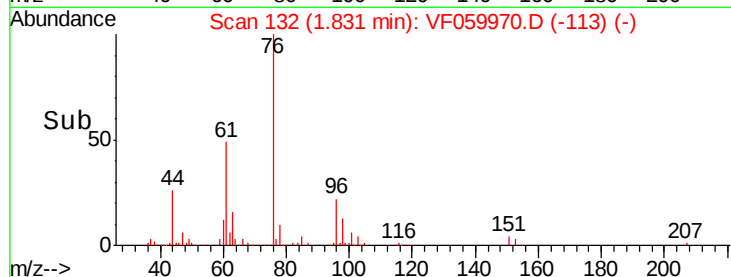
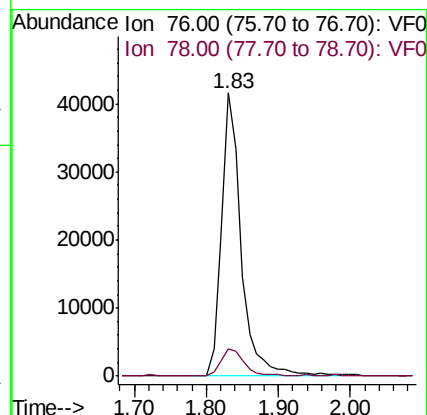
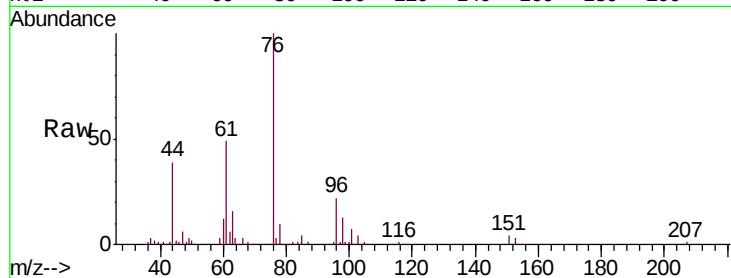




#17
Carbon Disulfide
Concen: 29.121 ug/l
RT: 1.83 min Scan# 132
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

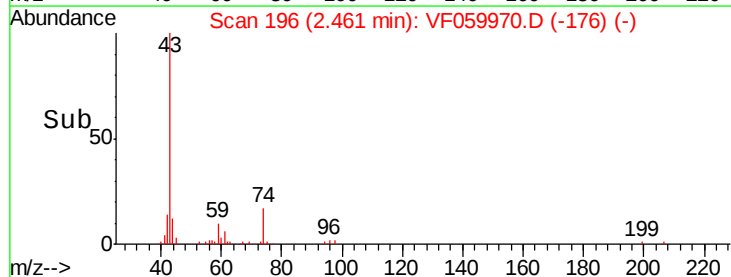
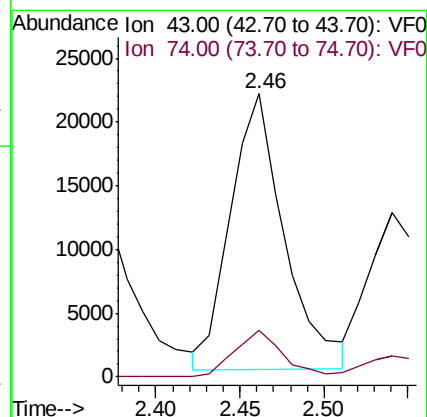
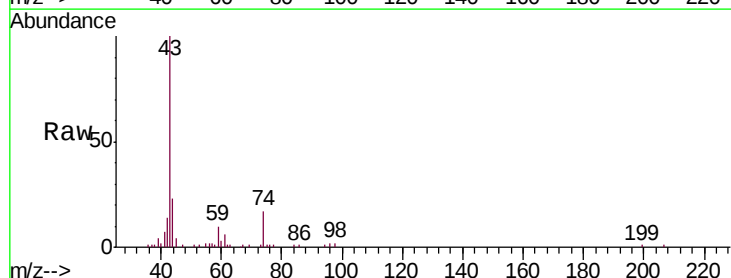
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

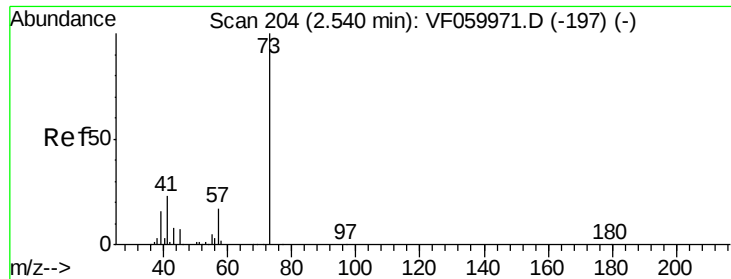
Tgt Ion: 76 Resp: 77786
Ion Ratio Lower Upper
76 100
78 9.5 8.0 12.0



#18
Methyl Acetate
Concen: 60.583 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 43 Resp: 48349
Ion Ratio Lower Upper
43 100
74 16.5 13.2 19.8

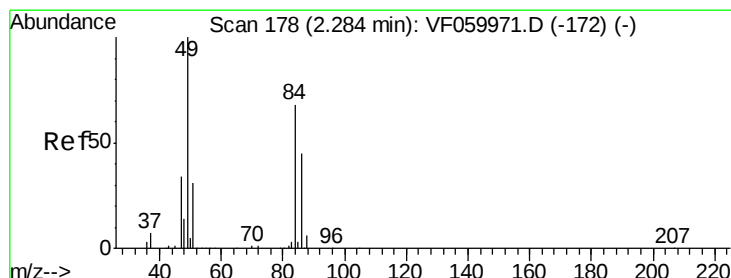
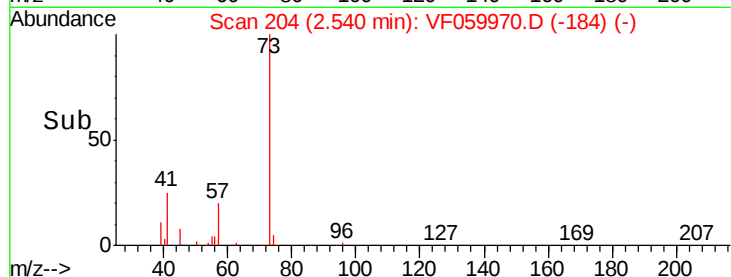
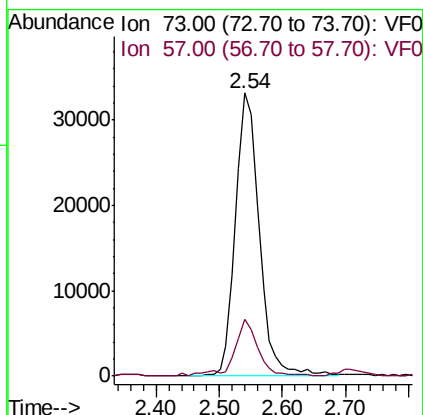
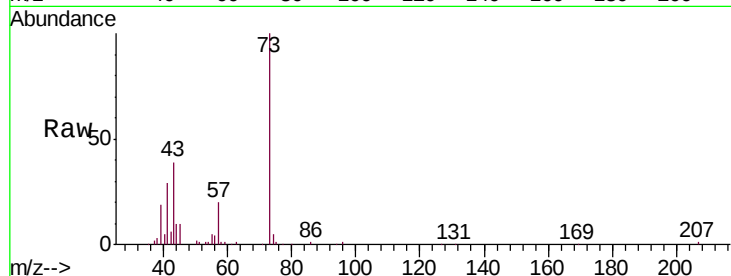




#19
Methyl tert-butyl Ether
Concen: 28.618 ug/l
RT: 2.54 min Scan# 204
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

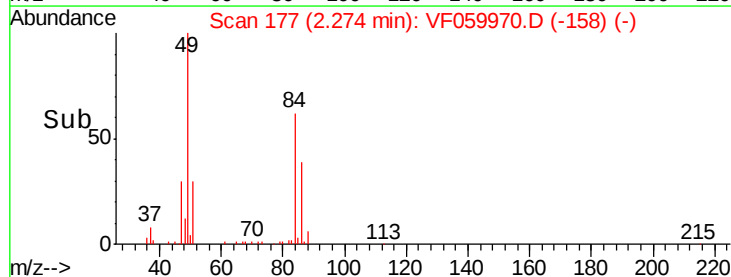
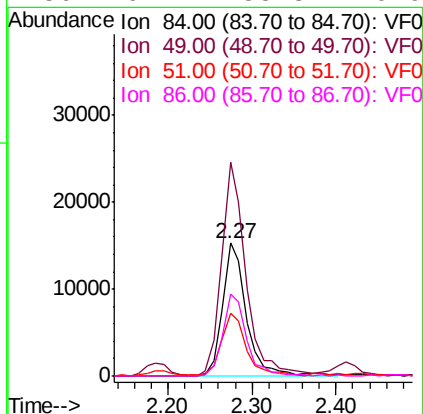
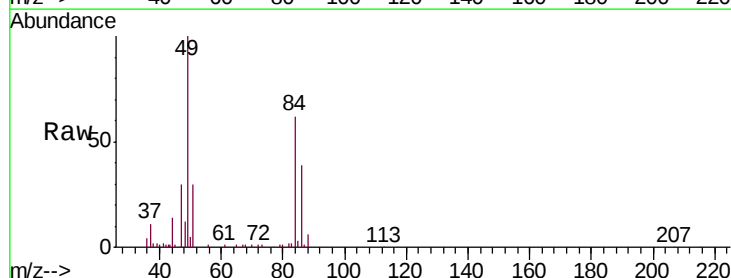
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

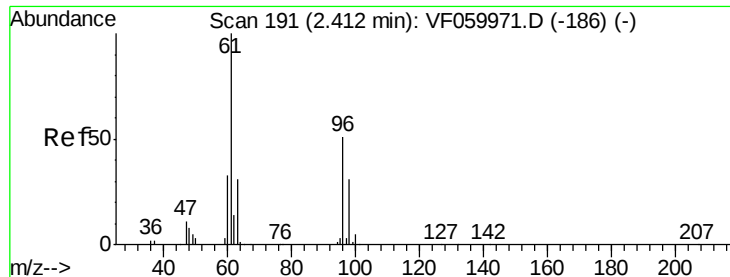
Tgt Ion: 73 Resp: 87016
Ion Ratio Lower Upper
73 100
57 20.2 13.7 20.5



#20
Methylene Chloride
Concen: 26.157 ug/l
RT: 2.27 min Scan# 177
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 84 Resp: 30124
Ion Ratio Lower Upper
84 100
49 161.1 118.2 177.2
51 47.6 36.3 54.5
86 62.1 53.3 79.9





#21

trans-1,2-Dichloroethene

Concen: 25.857 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

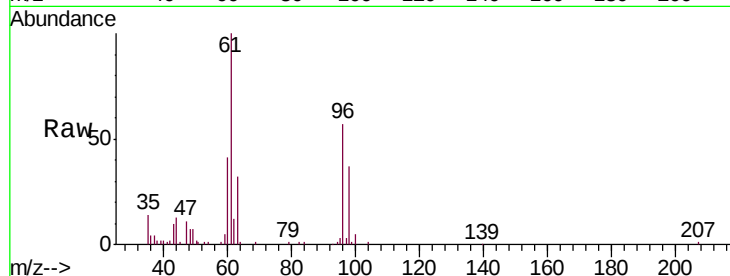
Tgt Ion: 96 Resp: 25376

Ion Ratio Lower Upper

96 100

61 176.0 156.9 235.3

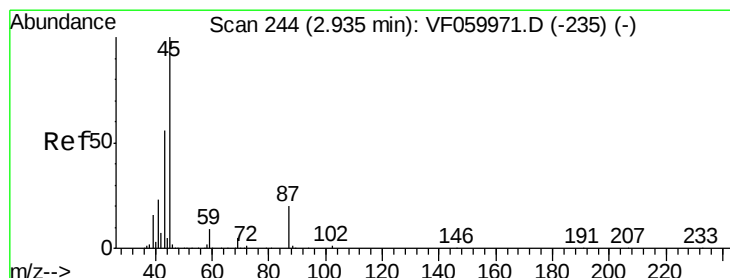
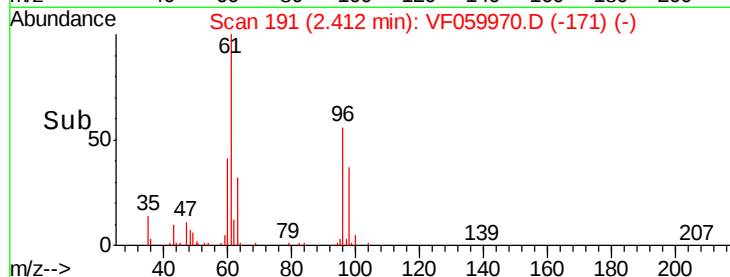
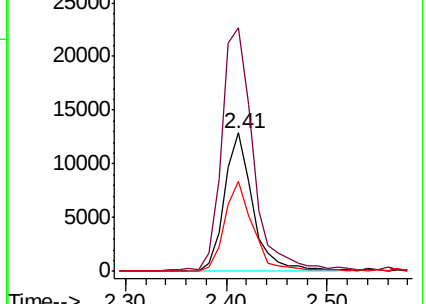
98 65.4 48.6 73.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 24.711 ug/l

RT: 2.93 min Scan# 244

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Tgt Ion: 45 Resp: 83854

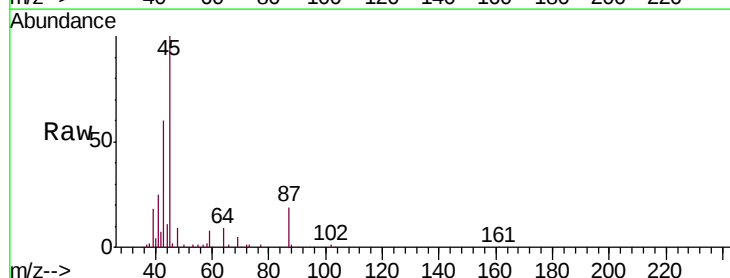
Ion Ratio Lower Upper

45 100

43 59.7 44.9 67.3

87 19.5 15.8 23.6

59 7.8 7.8 11.6

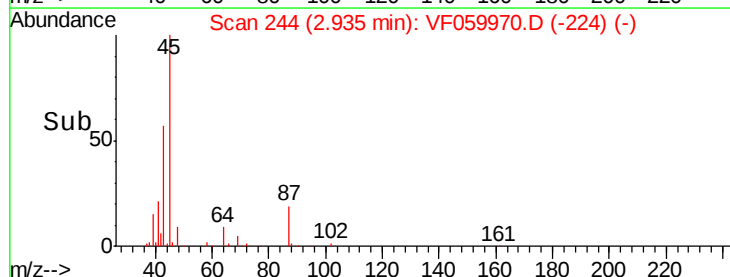
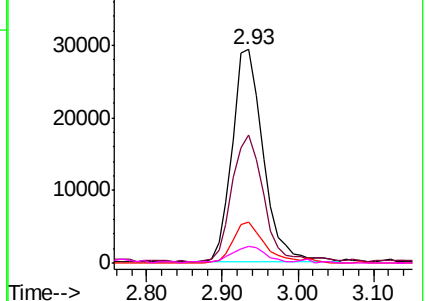


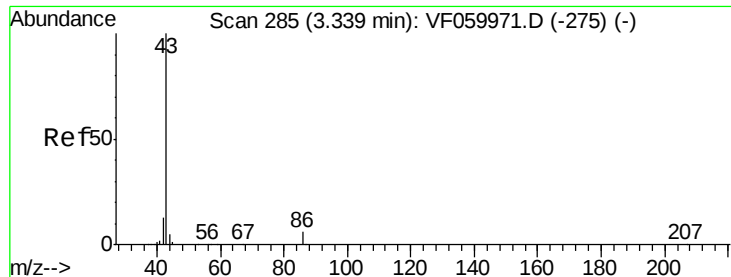
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 114.861 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

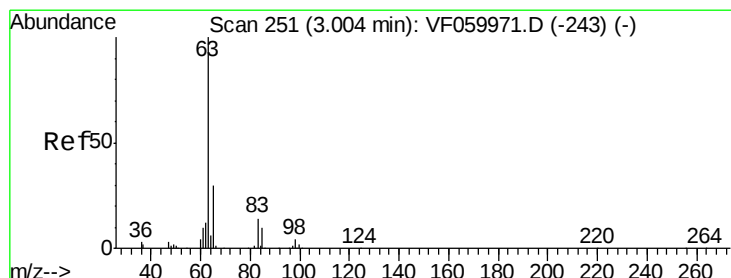
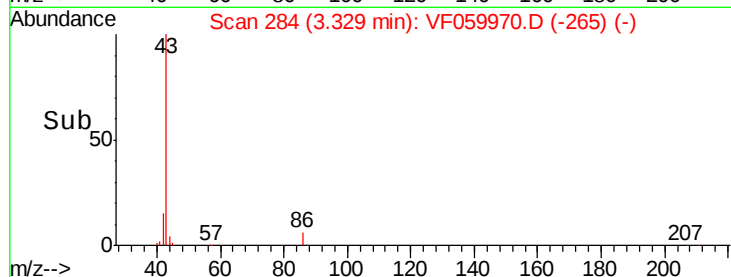
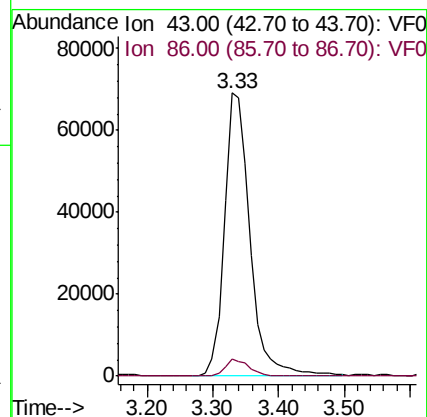
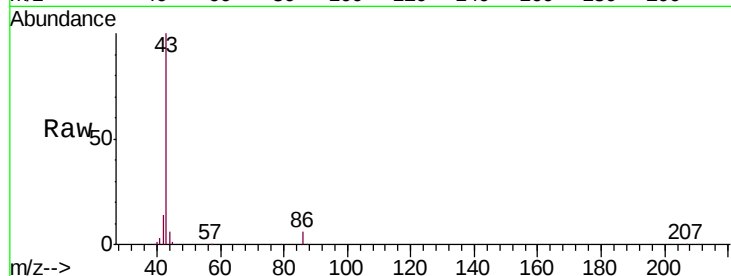
VSTDIC020

Tgt Ion: 43 Resp: 187936

Ion Ratio Lower Upper

43 100

86 6.2 4.5 6.7



#24

1,1-Dichloroethane

Concen: 24.080 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

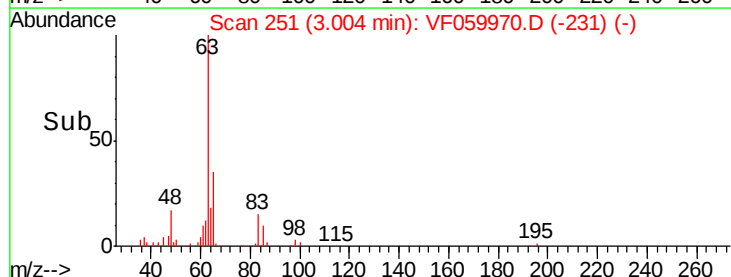
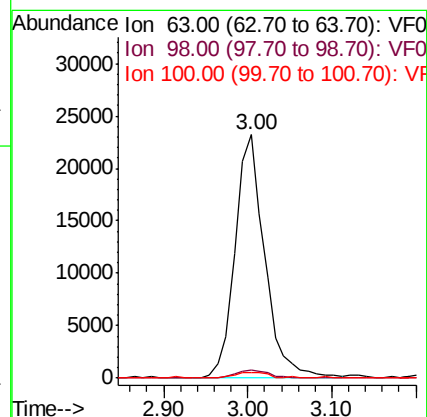
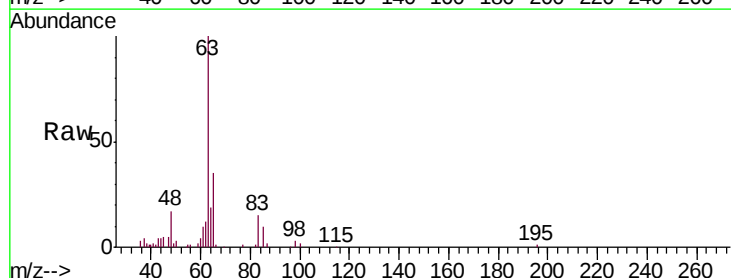
Tgt Ion: 63 Resp: 57072

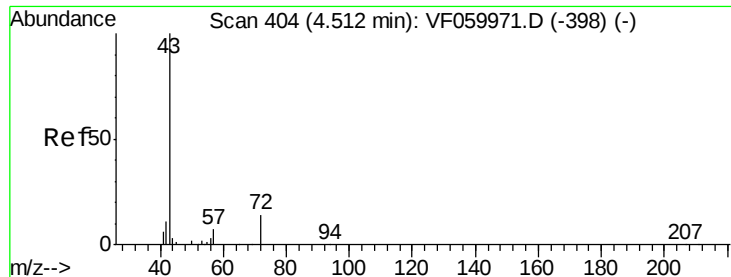
Ion Ratio Lower Upper

63 100

98 3.3 1.8 5.4

100 2.4 1.1 3.1





#25

2-Butanone

Concen: 156.841 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

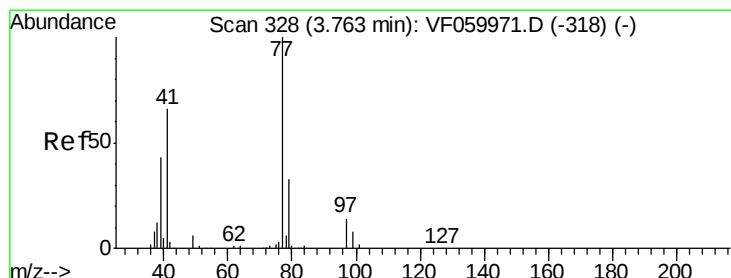
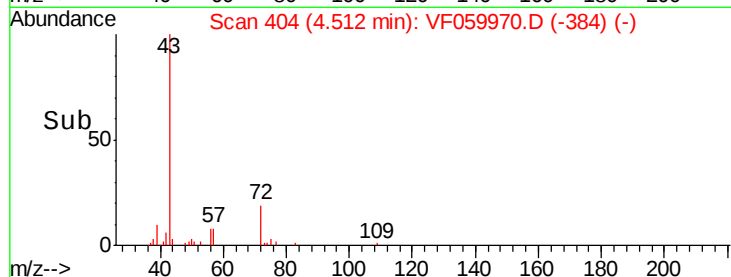
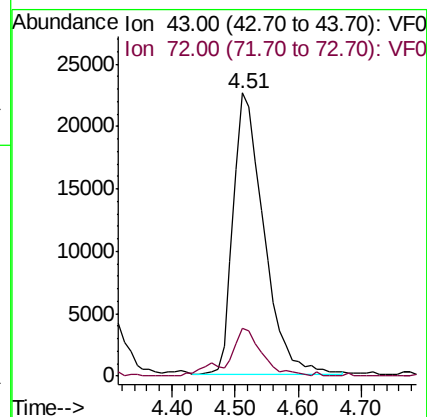
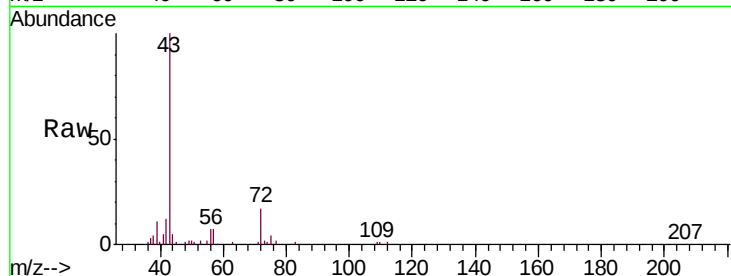
VSTDIC020

Tgt Ion: 43 Resp: 75539

Ion Ratio Lower Upper

43 100

72 16.8 13.4 20.2



#26

2,2-Dichloropropane

Concen: 32.081 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.01 min

Lab File: VF059970.D

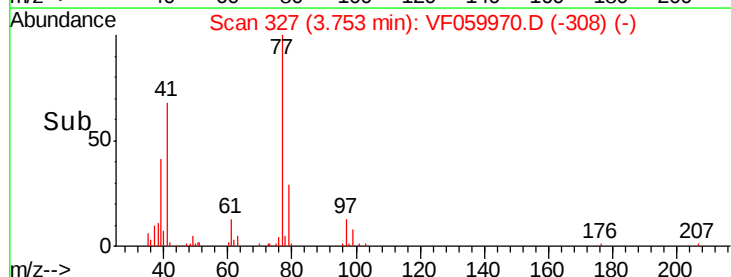
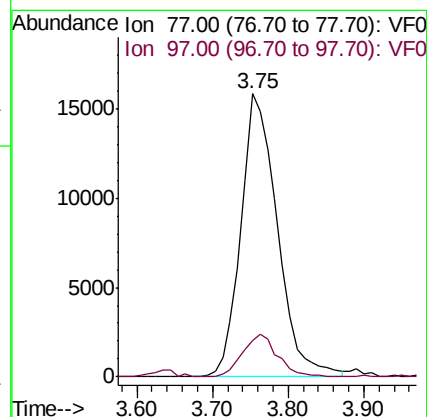
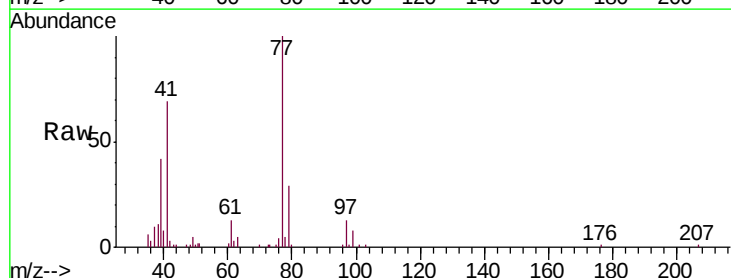
Acq: 16 Aug 2018 20:09

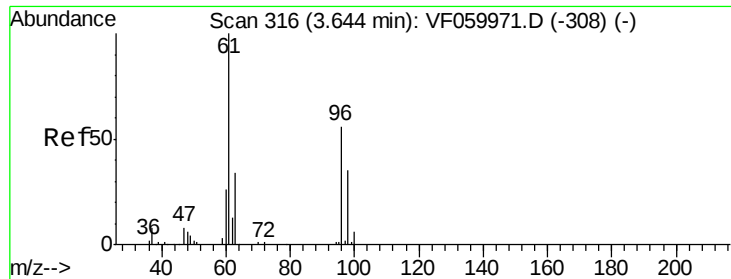
Tgt Ion: 77 Resp: 52970

Ion Ratio Lower Upper

77 100

97 13.0 7.4 22.3



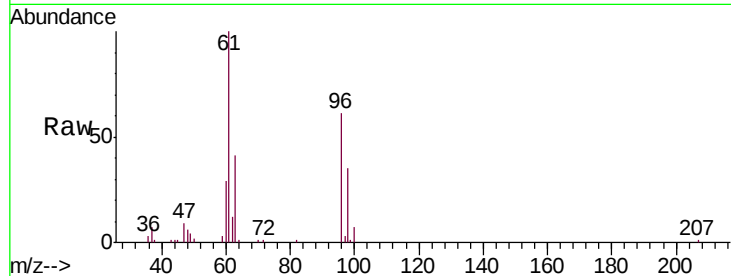


#27

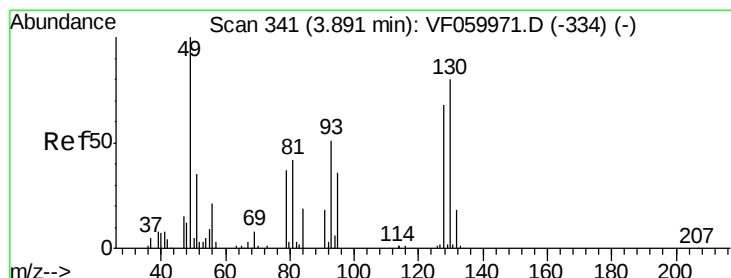
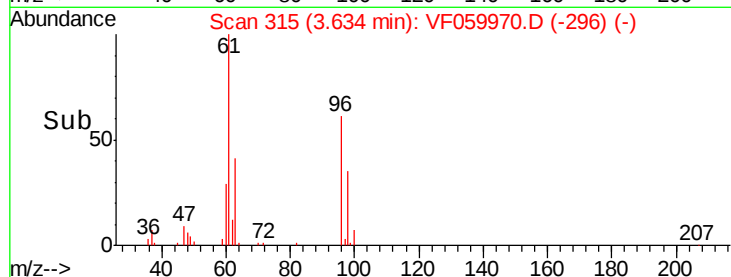
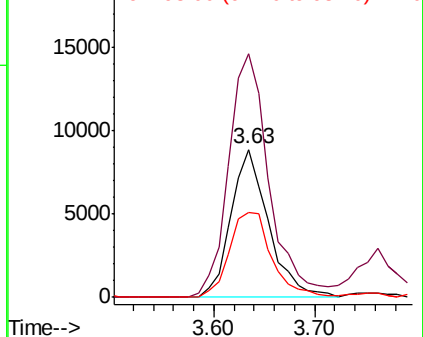
cis-1,2-Dichloroethene
Concen: 21.839 ug/l
RT: 3.63 min Scan# 315
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion: 96 Resp: 22989
Ion Ratio Lower Upper
96 100
61 164.3 0.0 356.4
98 57.4 0.0 125.2



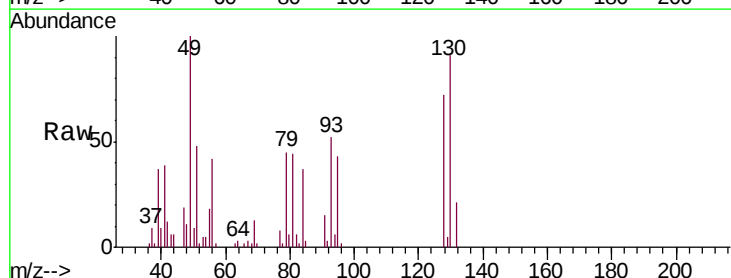
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



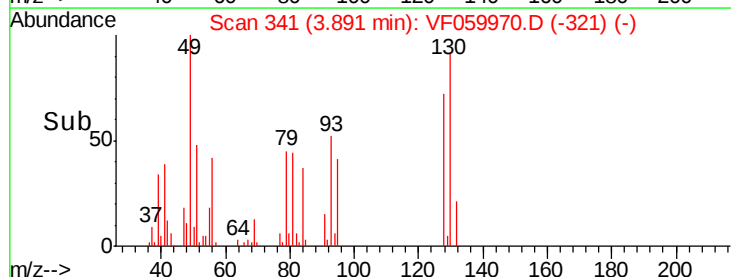
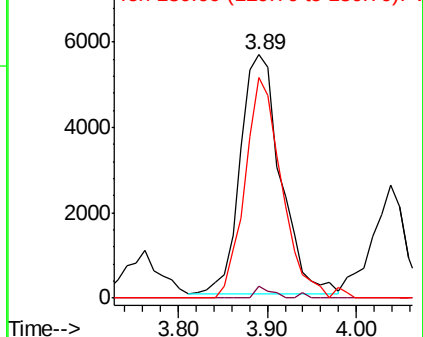
#28

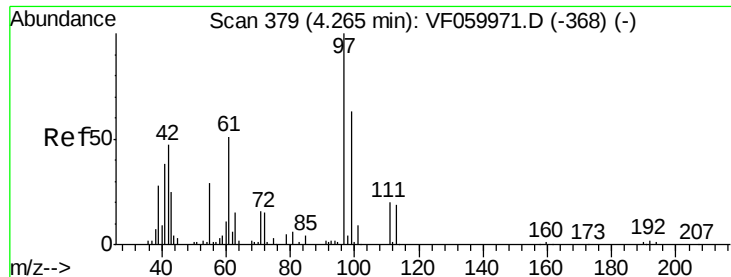
Bromochloromethane
Concen: 21.026 ug/l
RT: 3.89 min Scan# 341
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 49 Resp: 17480
Ion Ratio Lower Upper
49 100
129 4.8 0.0 4.6#
130 90.7 64.0 96.0



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: 179.540 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

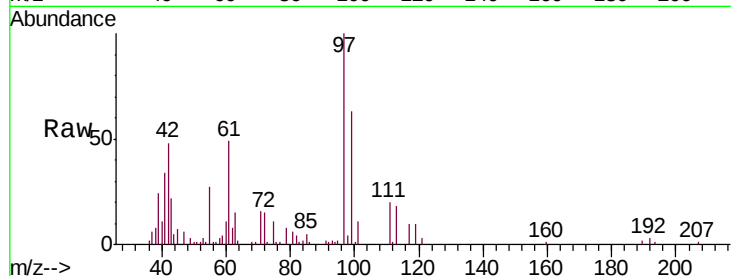
Tgt Ion: 42 Resp: 30367

Ion Ratio Lower Upper

42 100

72 30.1 27.9 41.9

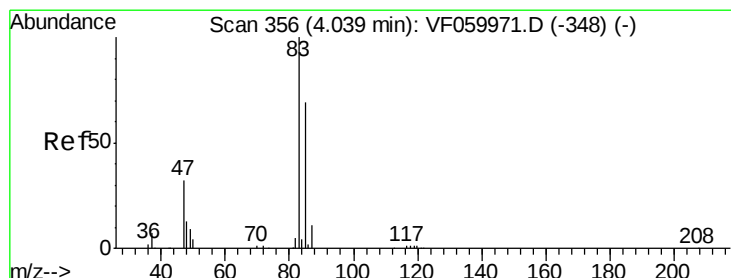
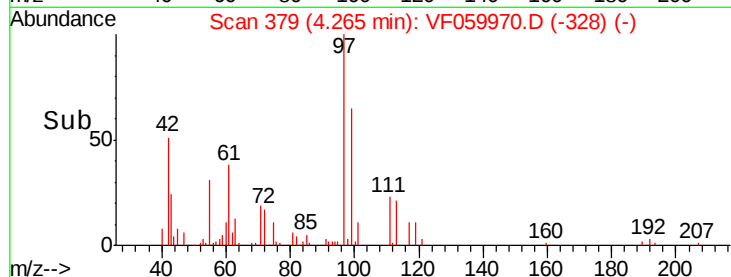
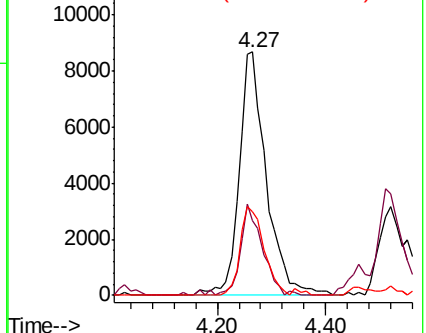
71 31.9 26.9 40.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 21.984 ug/l

RT: 4.04 min Scan# 356

Delta R.T. -0.00 min

Lab File: VF059970.D

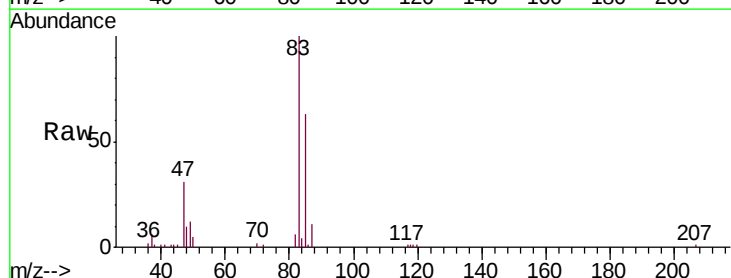
Acq: 16 Aug 2018 20:09

Tgt Ion: 83 Resp: 68693

Ion Ratio Lower Upper

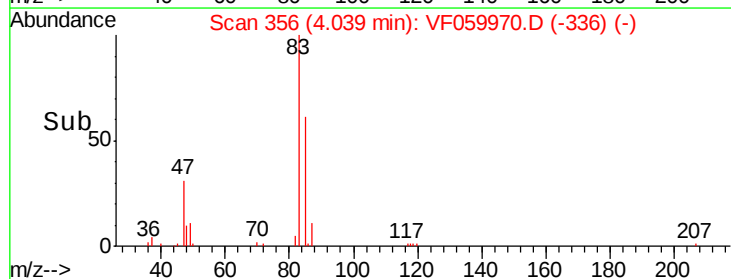
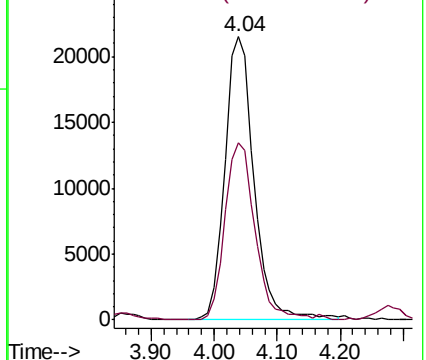
83 100

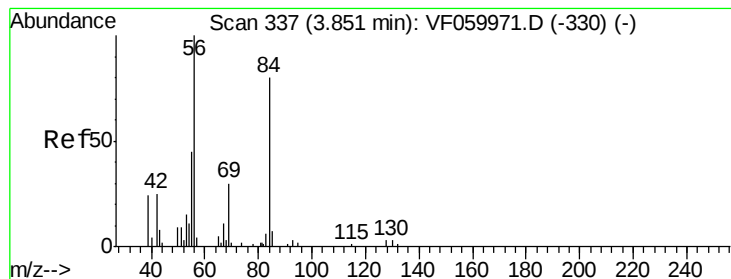
85 62.5 54.9 82.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 22.504 ug/l

RT: 3.85 min Scan# 337

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

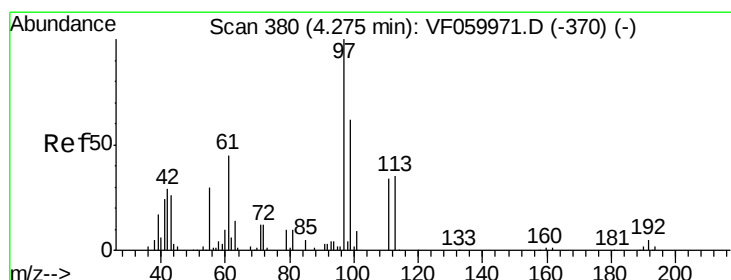
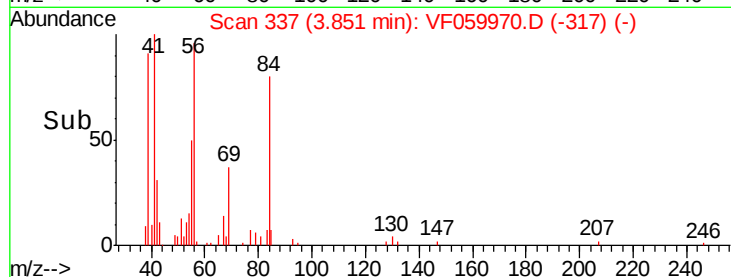
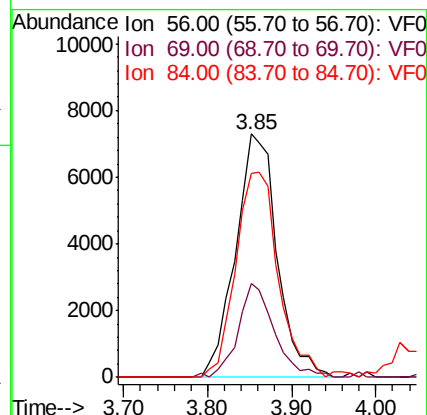
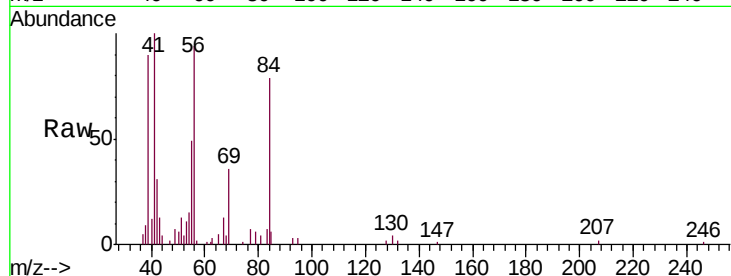
Tgt Ion: 56 Resp: 25149

Ion Ratio Lower Upper

56 100

69 38.4 23.8 35.6#

84 83.7 64.3 96.5



#32

1,1,1-Trichloroethane

Concen: 24.814 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

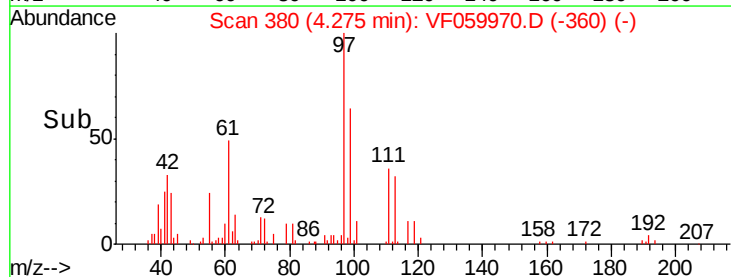
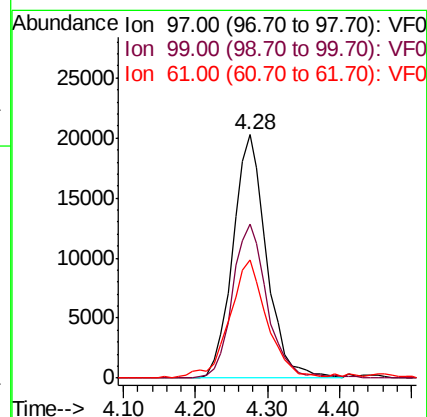
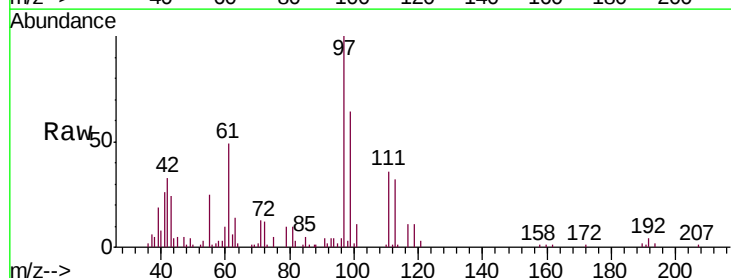
Tgt Ion: 97 Resp: 65572

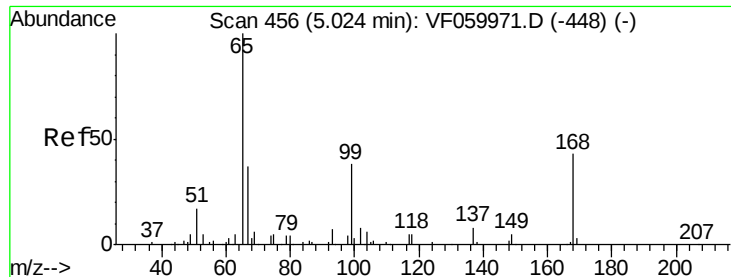
Ion Ratio Lower Upper

97 100

99 63.5 49.3 73.9

61 48.8 36.5 54.7

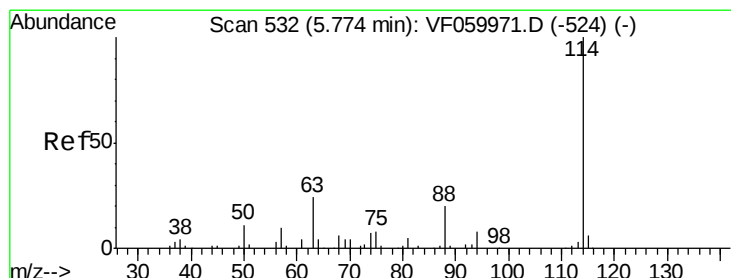
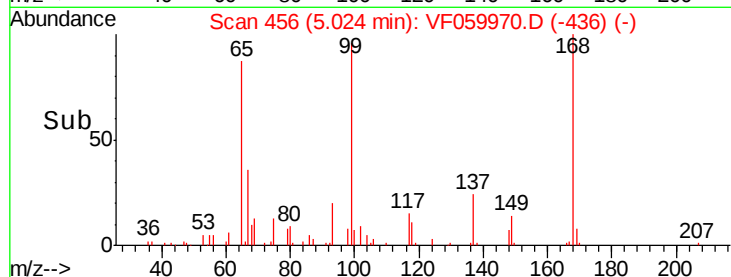
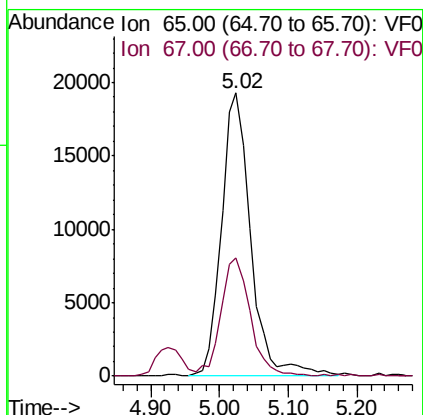
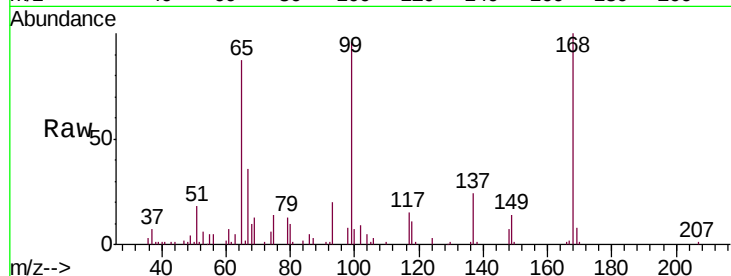




#33
 1,2-Dichloroethane-d4
 Concen: 25.484 ug/l
 RT: 5.02 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

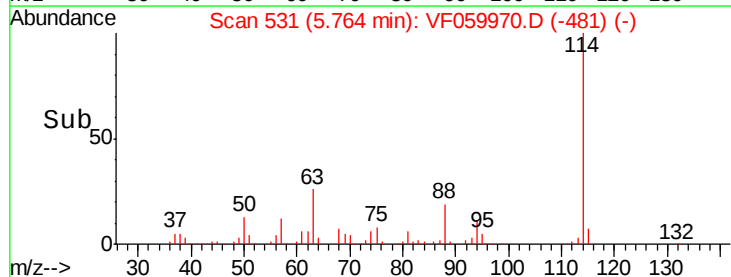
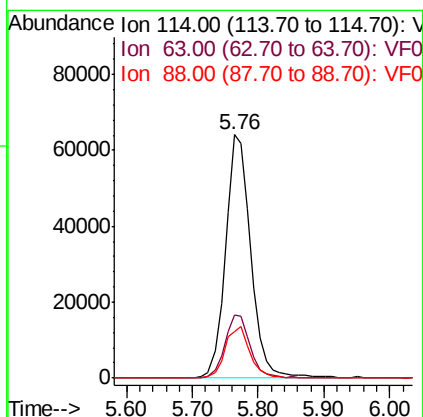
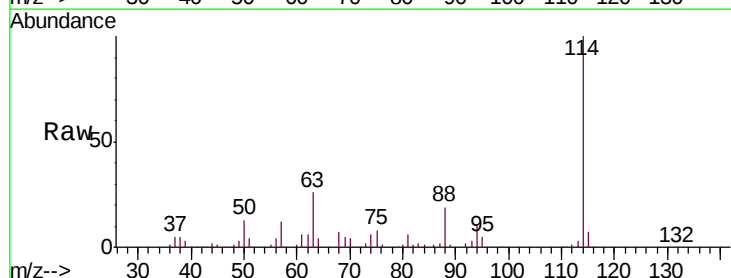
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

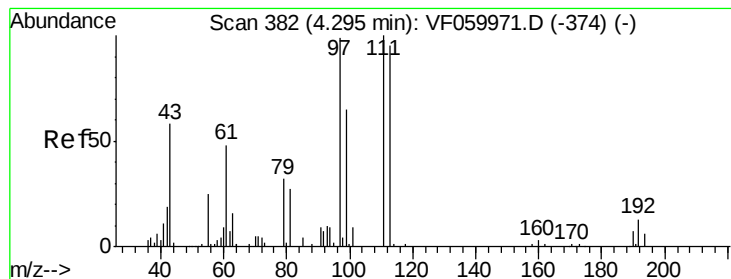
Tgt Ion: 65 Resp: 56823
 Ion Ratio Lower Upper
 65 100
 67 41.9 0.0 84.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.01 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion: 114 Resp: 172005
 Ion Ratio Lower Upper
 114 100
 63 26.1 0.0 48.8
 88 18.9 0.0 39.6





#35

Dibromofluoromethane

Concen: 21.101 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

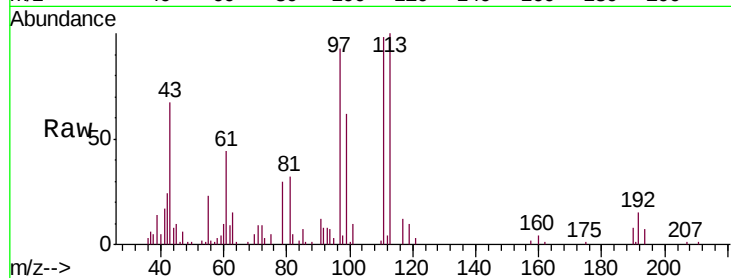
Tgt Ion: 113 Resp: 36881

Ion Ratio Lower Upper

113 100

111 97.8 83.9 125.9

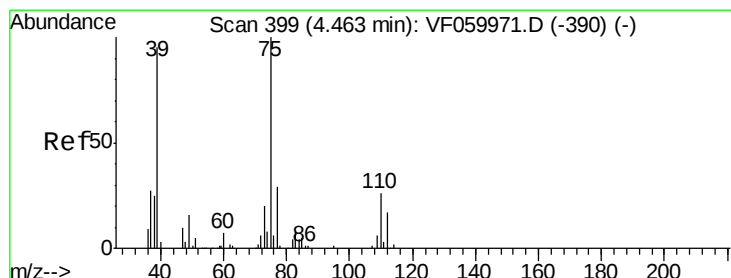
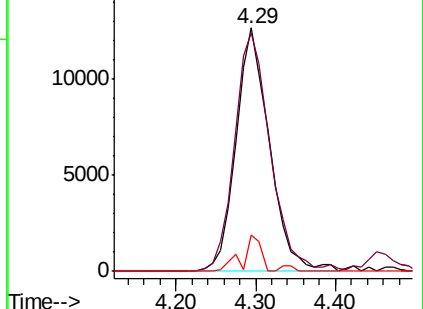
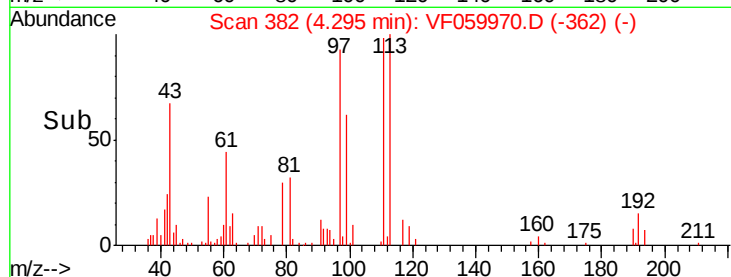
192 14.6 11.3 16.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.967 ug/l

RT: 4.46 min Scan# 399

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

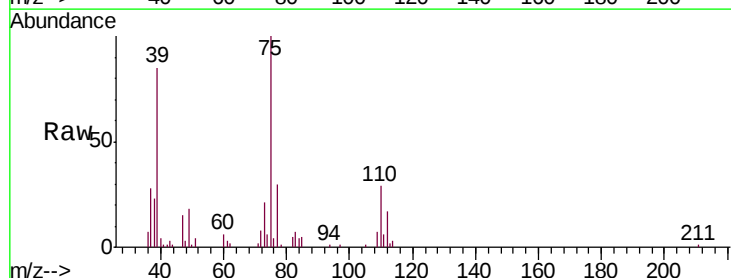
Tgt Ion: 75 Resp: 39951

Ion Ratio Lower Upper

75 100

110 29.2 13.1 39.3

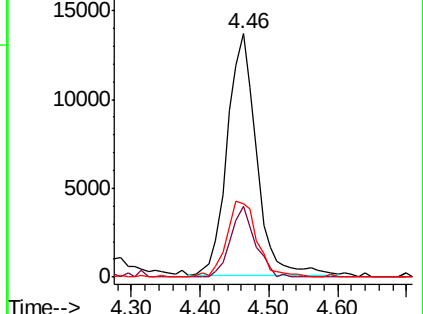
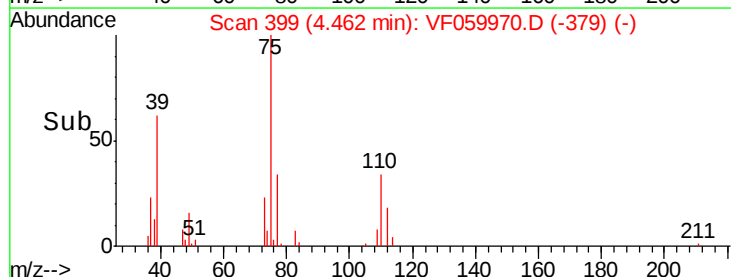
77 30.4 23.4 35.0

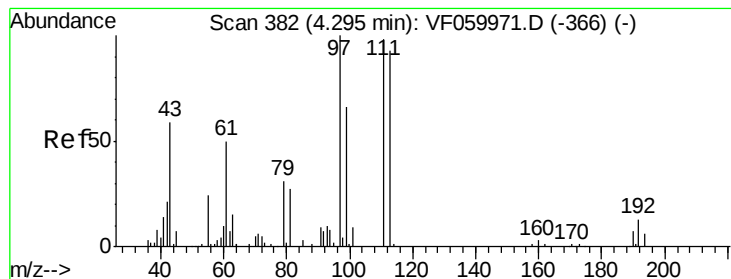


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 33.951 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

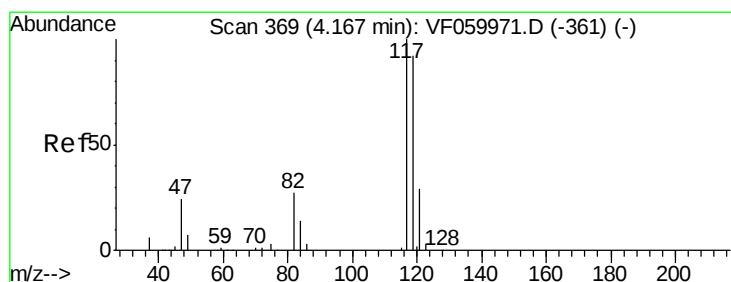
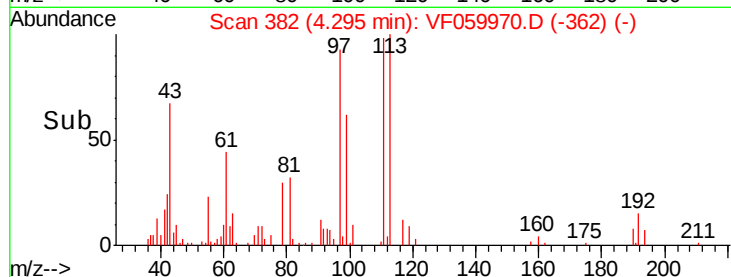
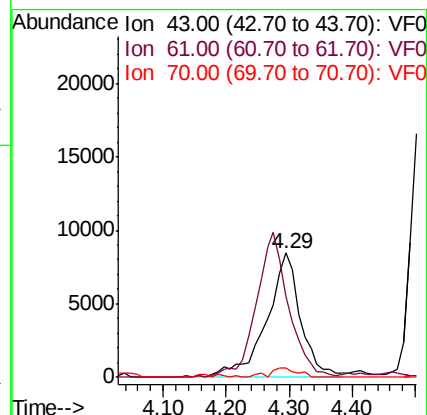
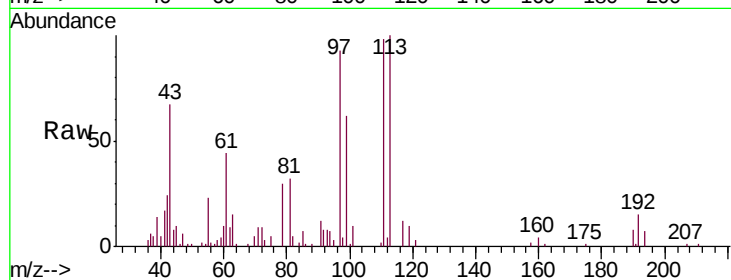
Tgt Ion: 43 Resp: 31574

Ion Ratio Lower Upper

43 100

61 65.4 67.0 100.4#

70 7.3 6.7 10.1



#38

Carbon Tetrachloride

Concen: 16.235 ug/l

RT: 4.17 min Scan# 369

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

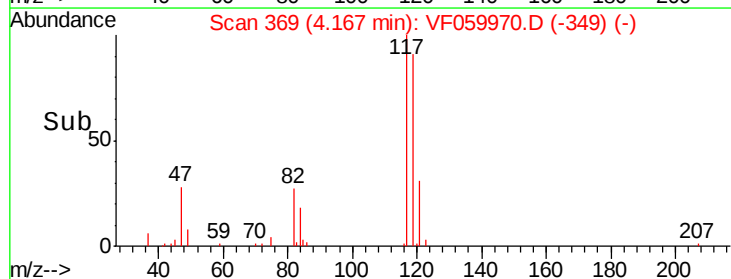
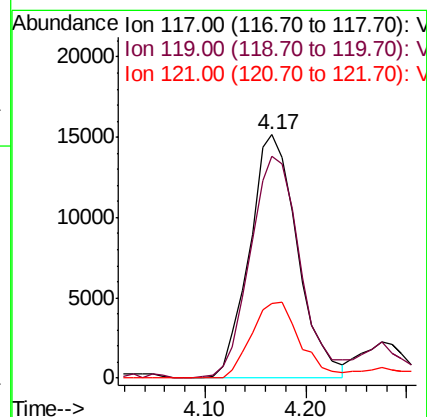
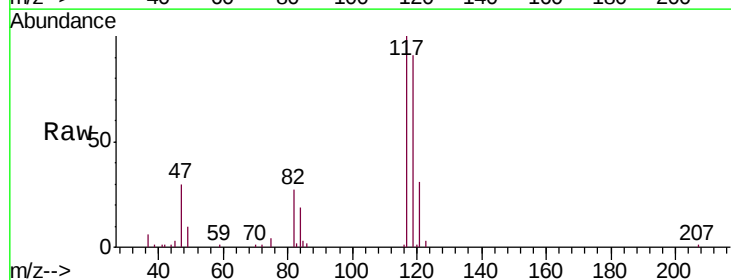
Tgt Ion: 117 Resp: 50224

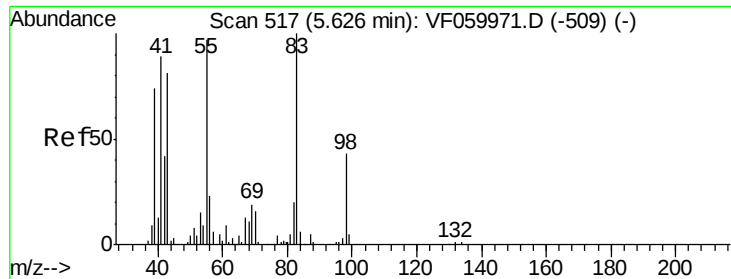
Ion Ratio Lower Upper

117 100

119 91.3 73.6 110.4

121 30.7 23.4 35.2

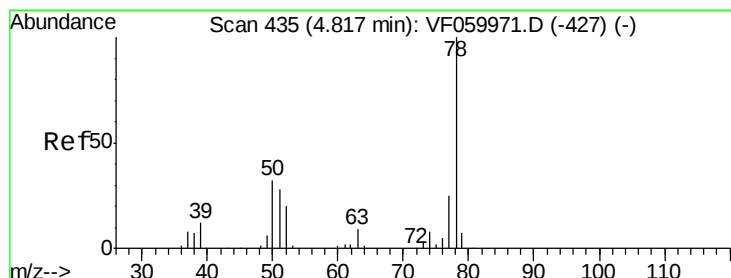
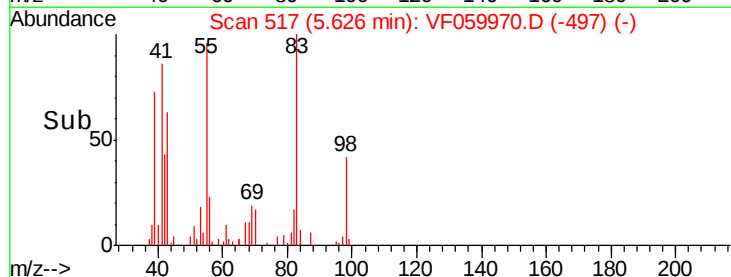
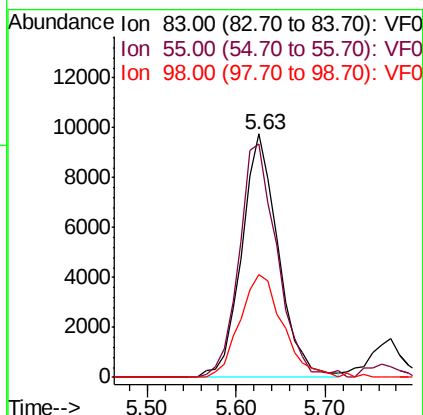
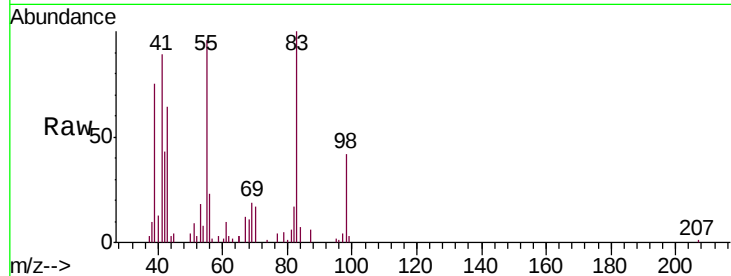




#39
Methylcyclohexane
Concen: 20.060 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

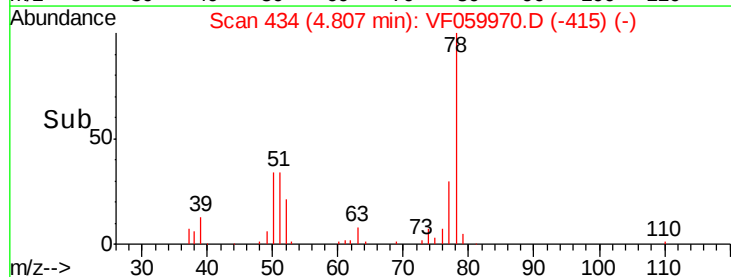
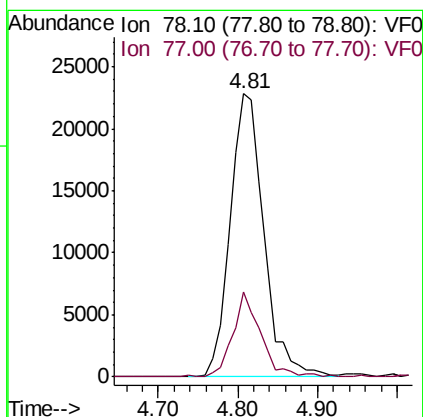
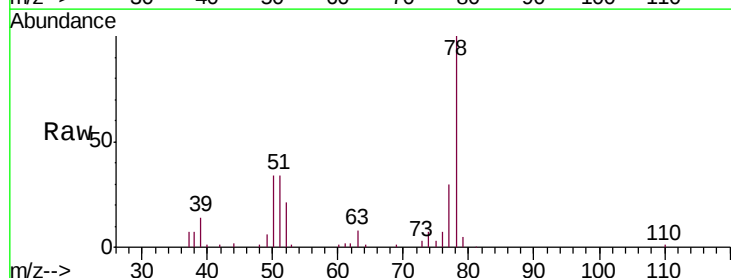
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

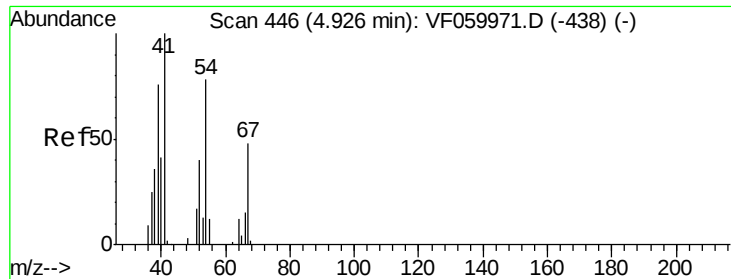
Tgt Ion: 83 Resp: 27729
Ion Ratio Lower Upper
83 100
55 96.1 77.7 116.5
98 42.0 34.2 51.4



#40
Benzene
Concen: 21.046 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 78 Resp: 67400
Ion Ratio Lower Upper
78 100
77 30.0 20.3 30.5





#41

Methacrylonitrile

Concen: 32.943 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 14584

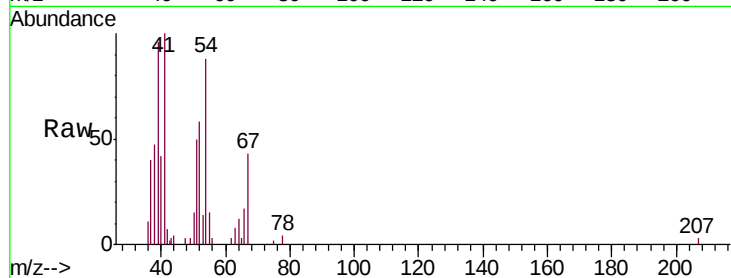
Ion Ratio Lower Upper

41 100

39 96.0 69.9 104.9

67 43.4 38.6 58.0

52 58.4 47.9 71.9

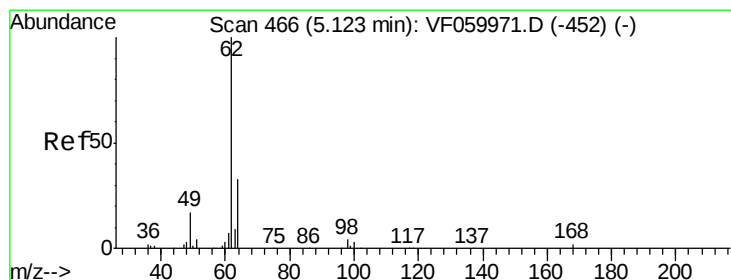
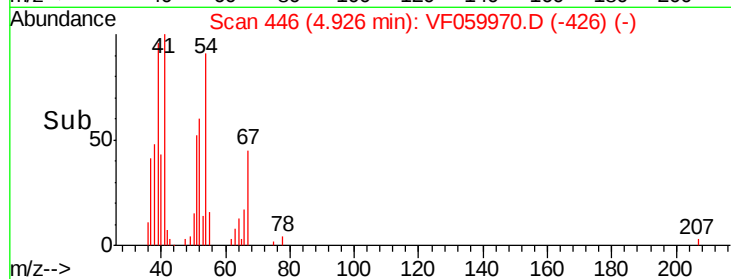
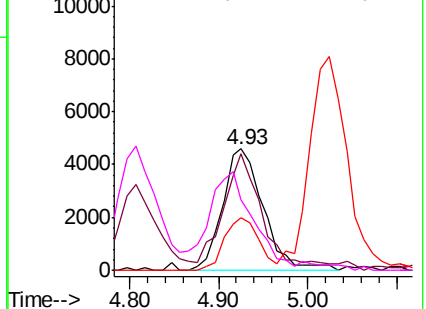


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#42

1,2-Dichloroethane

Concen: 25.649 ug/l

RT: 5.11 min Scan# 465

Delta R.T. -0.01 min

Lab File: VF059970.D

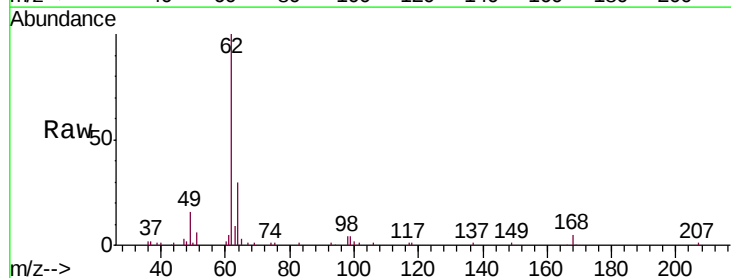
Acq: 16 Aug 2018 20:09

Tgt Ion: 62 Resp: 67574

Ion Ratio Lower Upper

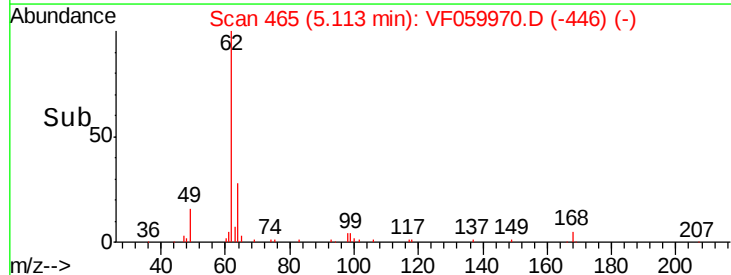
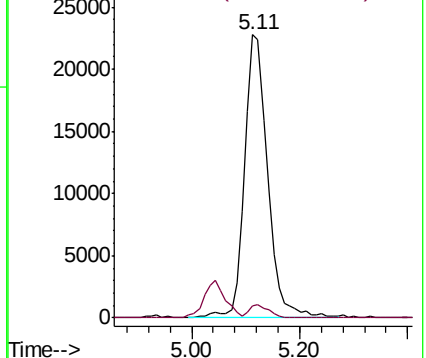
62 100

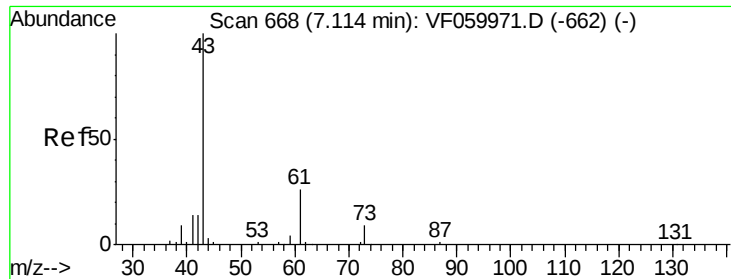
98 4.1 0.0 8.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

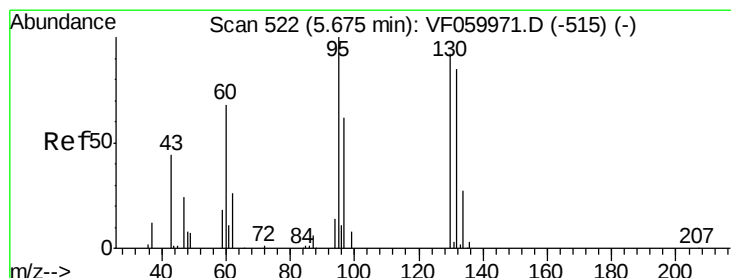
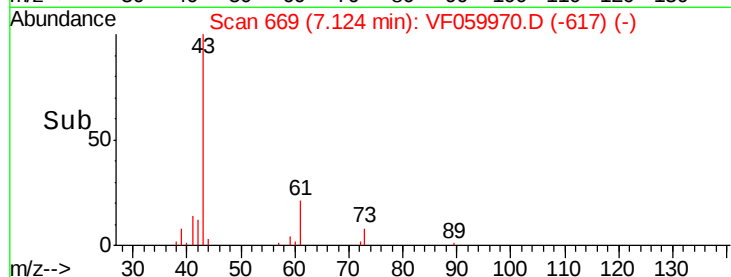
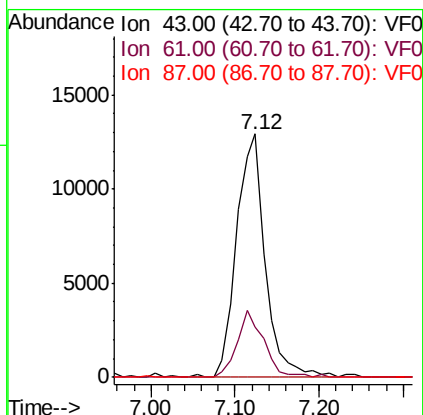
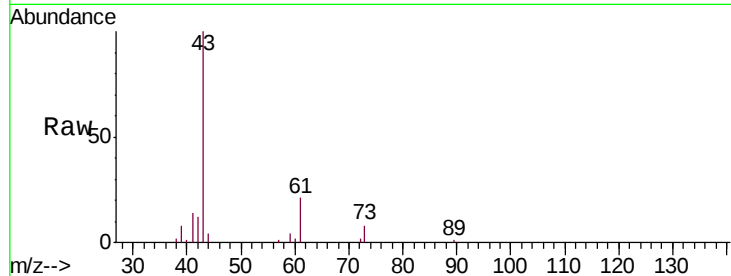




#43
Isopropyl Acetate
Concen: 30.091 ug/l
RT: 7.12 min Scan# 669
Delta R.T. 0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

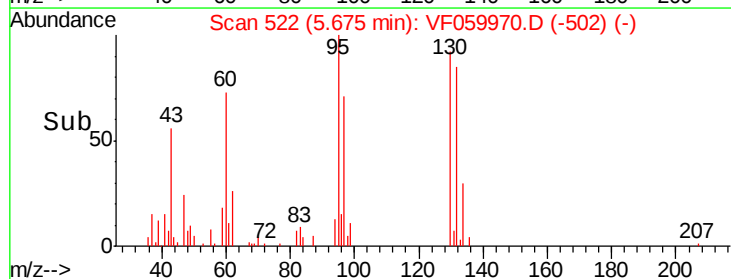
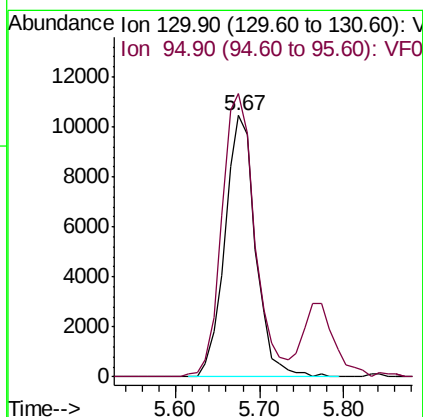
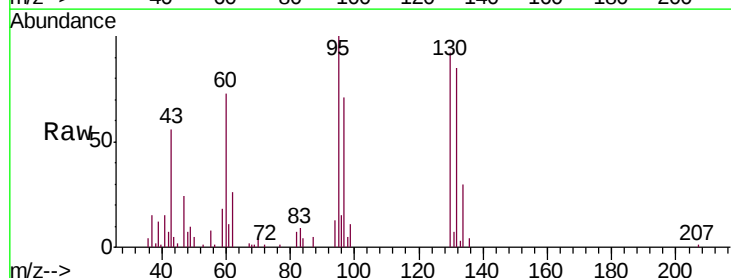
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

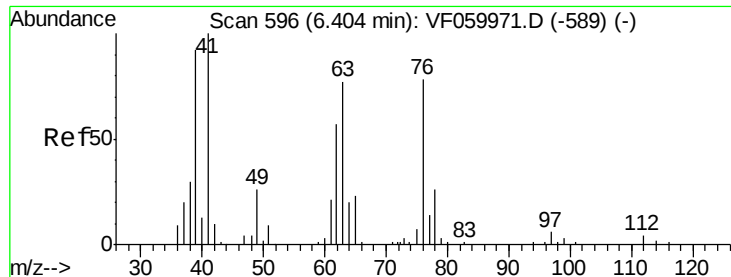
Tgt Ion: 43 Resp: 30565
Ion Ratio Lower Upper
43 100
61 20.8 20.8 31.2
87 0.0 0.5 0.7#



#44
Trichloroethene
Concen: 21.275 ug/l
RT: 5.67 min Scan# 522
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 130 Resp: 26416
Ion Ratio Lower Upper
130 100
95 108.3 0.0 218.4





#45

1,2-Dichloropropane

Concen: 22.237 ug/l

RT: 6.40 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

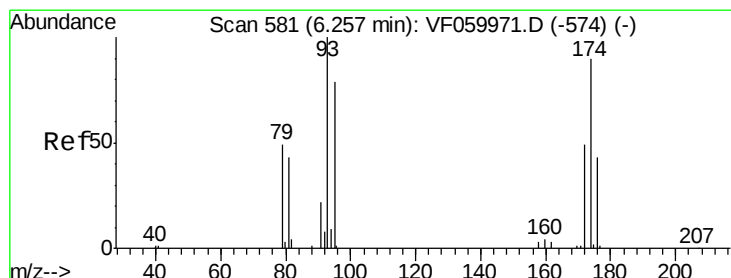
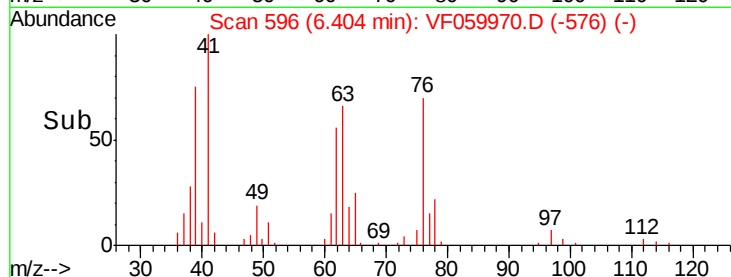
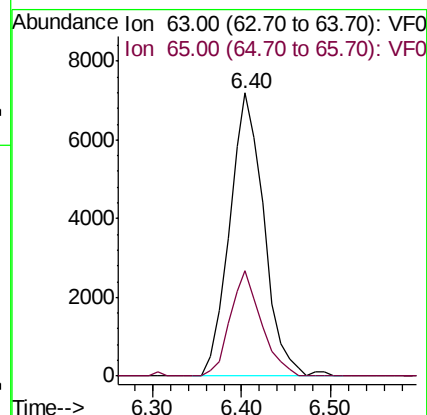
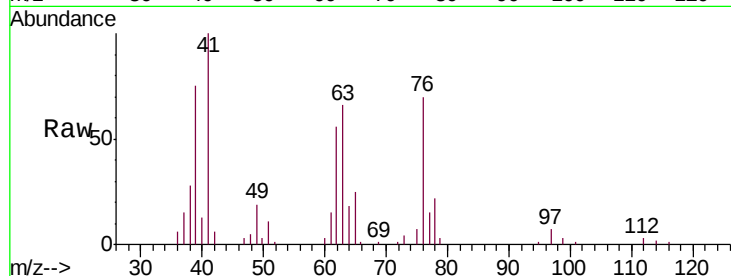
VSTDIC020

Tgt Ion: 63 Resp: 19320

Ion Ratio Lower Upper

63 100

65 37.4 23.8 35.6#



#46

Dibromomethane

Concen: 25.370 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

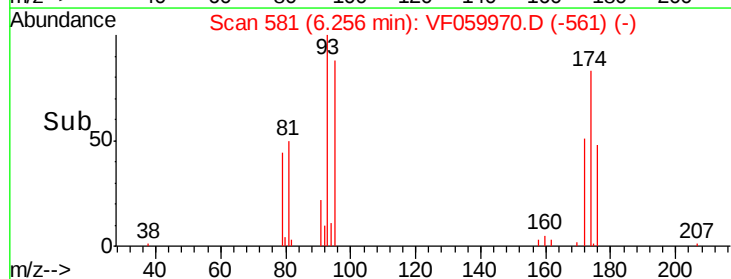
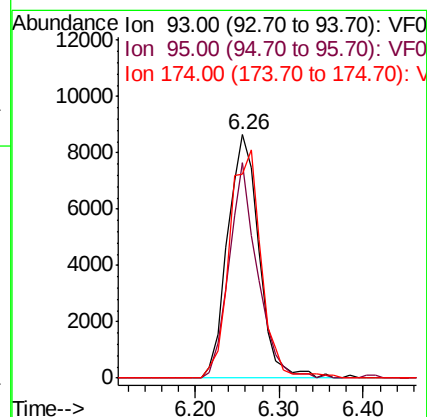
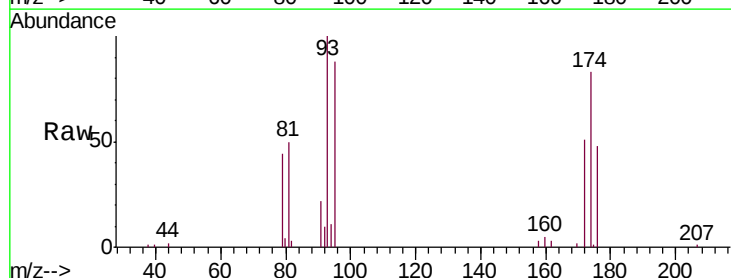
Tgt Ion: 93 Resp: 22334

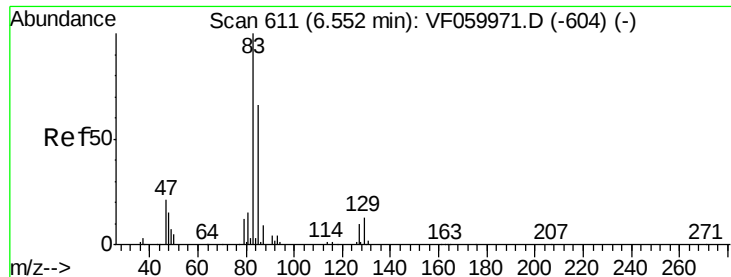
Ion Ratio Lower Upper

93 100

95 88.5 64.0 96.0

174 83.9 71.8 107.8





#47

Bromodichloromethane

Concen: 21.590 ug/l

RT: 6.55 min Scan# 611

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

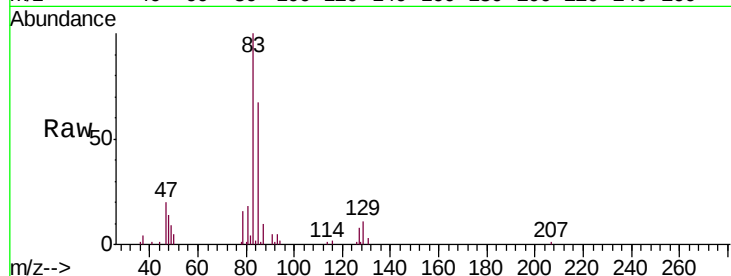
Tgt Ion: 83 Resp: 53347

Ion Ratio Lower Upper

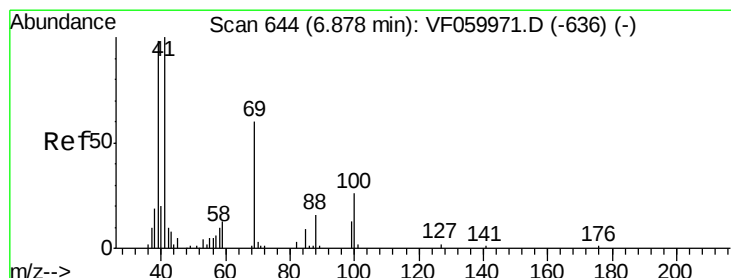
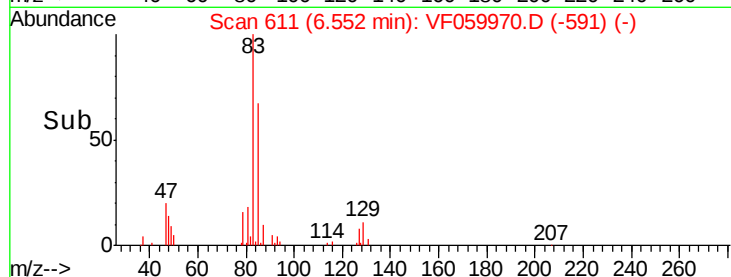
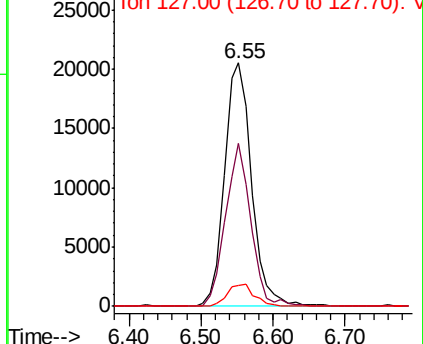
83 100

85 66.8 53.2 79.8

127 9.4 8.4 12.6



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 31.187 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

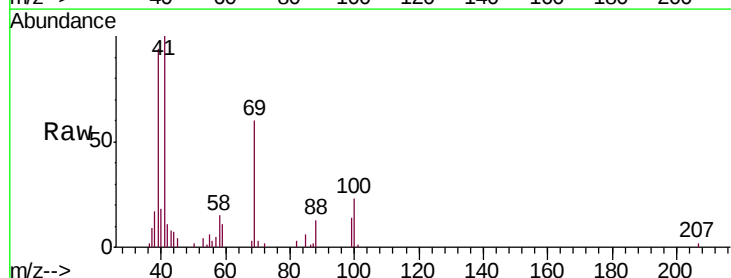
Tgt Ion: 41 Resp: 23268

Ion Ratio Lower Upper

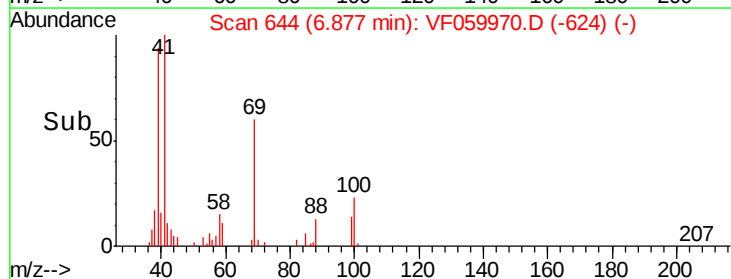
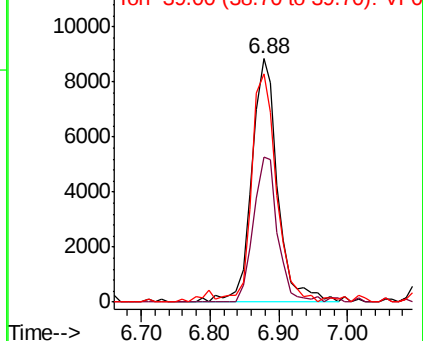
41 100

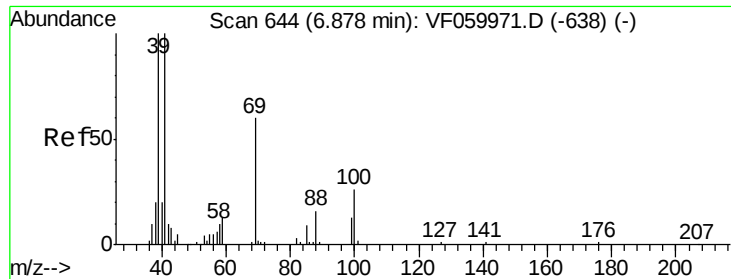
69 59.6 48.1 72.1

39 93.8 79.3 118.9



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

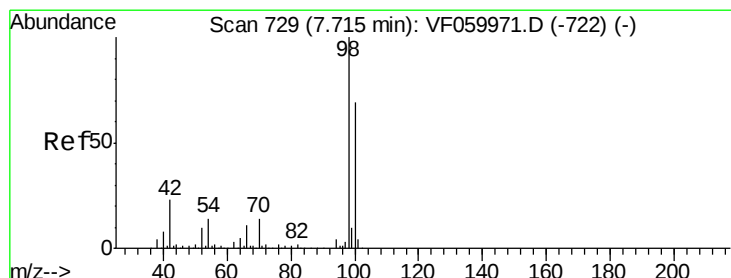
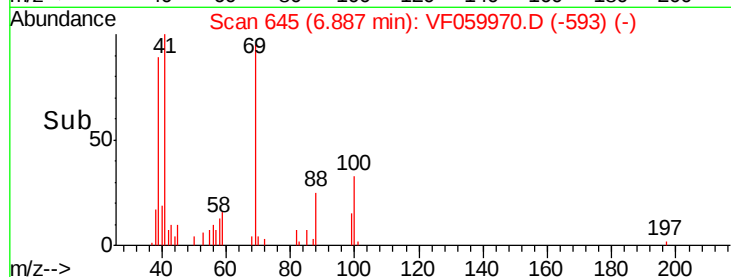
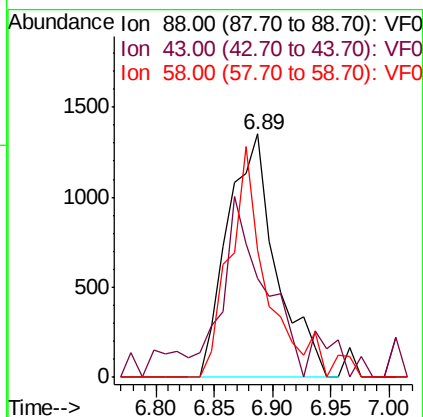
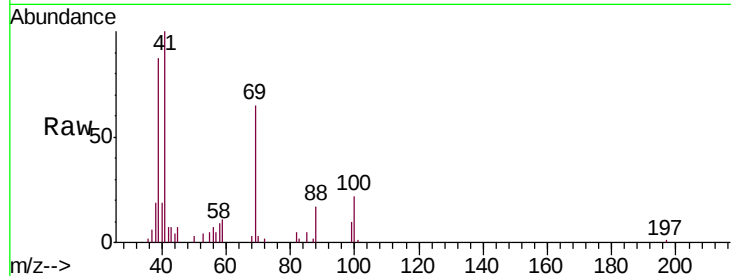




#49
 1,4-Dioxane
 Concen: 648.135 ug/l
 RT: 6.89 min Scan# 645
 Delta R.T. 0.01 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

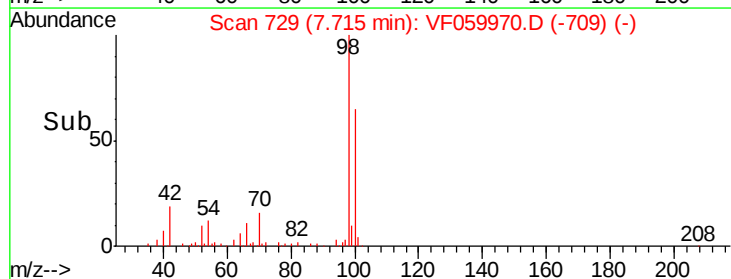
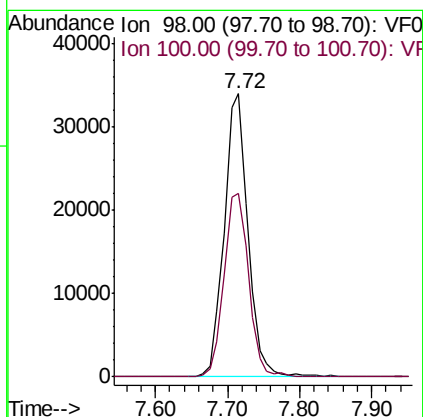
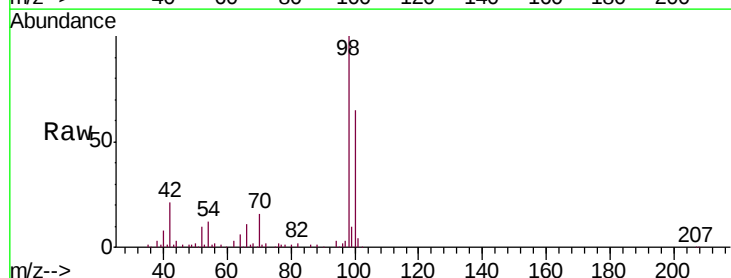
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

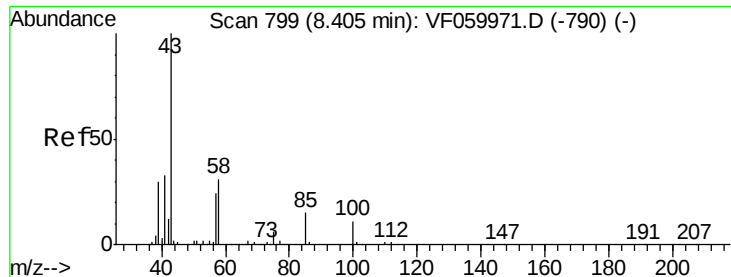
Tgt Ion: 88 Resp: 3903
 Ion Ratio Lower Upper
 88 100
 43 40.6 45.3 67.9#
 58 52.4 51.2 76.8



#50
 Toluene-d8
 Concen: 20.413 ug/l
 RT: 7.72 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion: 98 Resp: 77642
 Ion Ratio Lower Upper
 98 100
 100 64.8 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 159.788 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

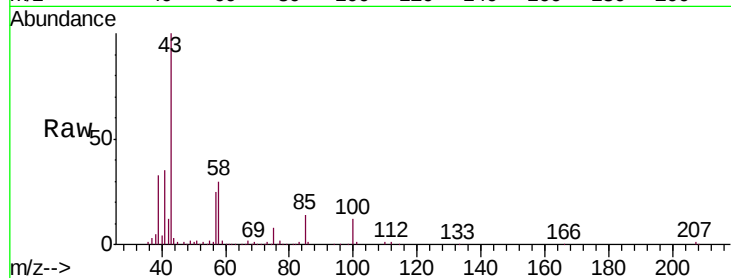
VSTDIC020

Tgt Ion: 43 Resp: 154199

Ion Ratio Lower Upper

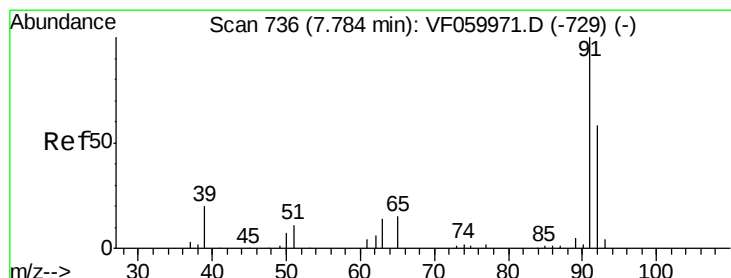
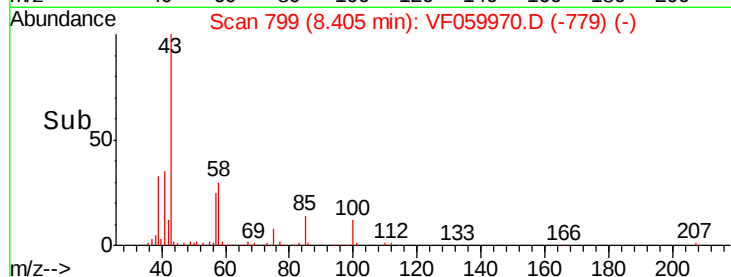
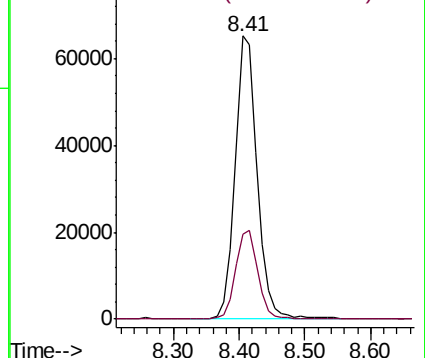
43 100

58 30.2 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.330 ug/l

RT: 7.78 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF059970.D

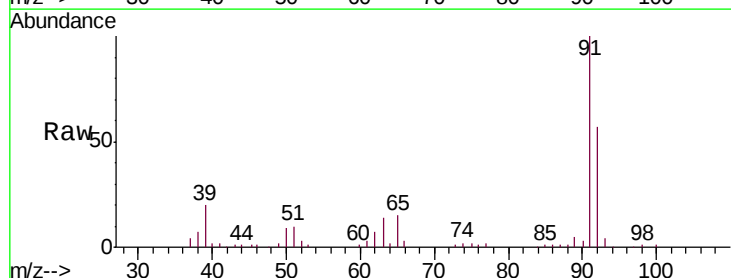
Acq: 16 Aug 2018 20:09

Tgt Ion: 92 Resp: 51147

Ion Ratio Lower Upper

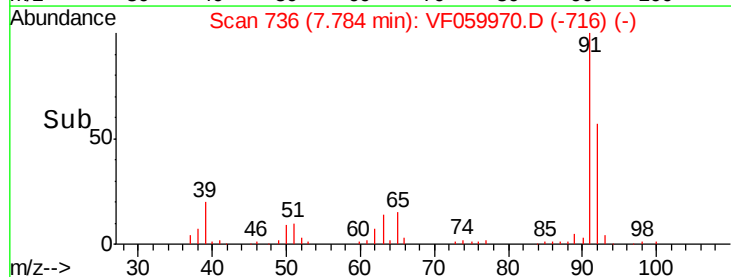
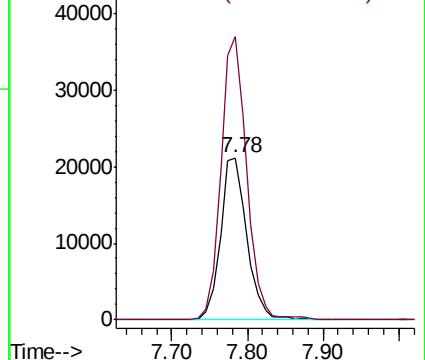
92 100

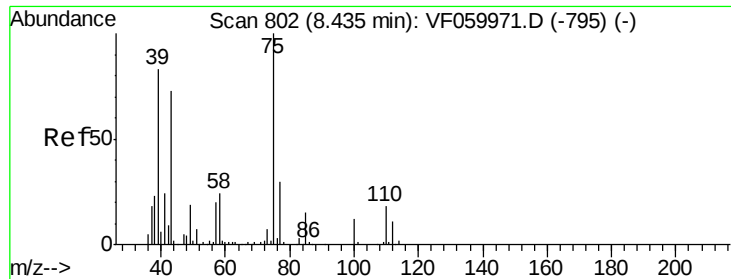
91 175.0 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 23.576 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

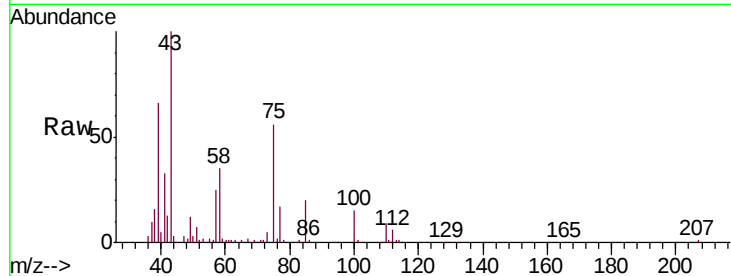
VSTDIC020

Tgt Ion: 75 Resp: 48368

Ion Ratio Lower Upper

75 100

77 31.2 23.5 35.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

25000

20000

15000

10000

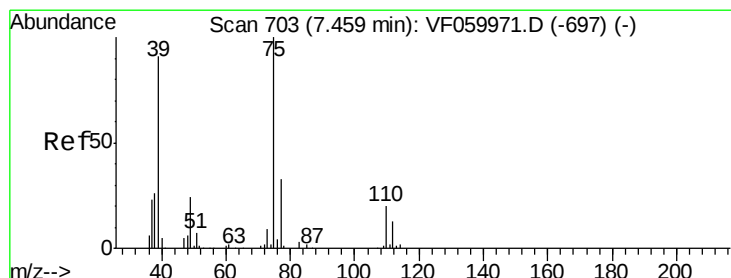
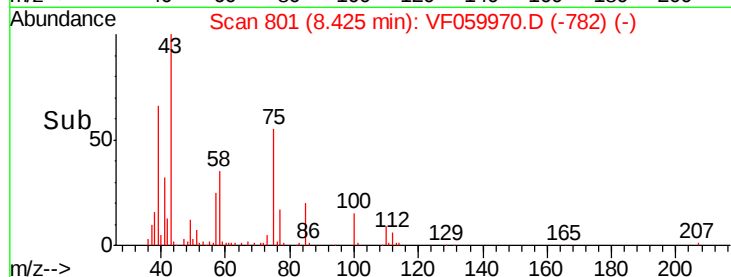
5000

0

8.43

8.40 8.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 22.910 ug/l

RT: 7.46 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

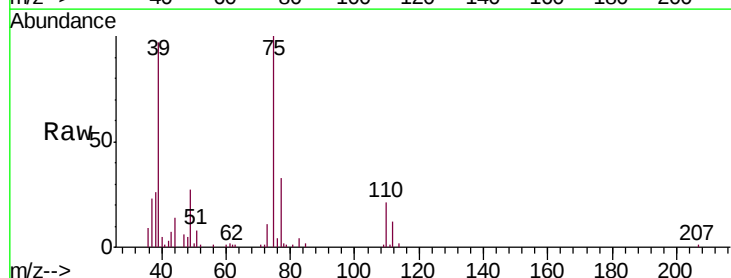
Tgt Ion: 75 Resp: 44479

Ion Ratio Lower Upper

75 100

77 33.2 26.2 39.4

39 97.1 73.2 109.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

25000

20000

15000

10000

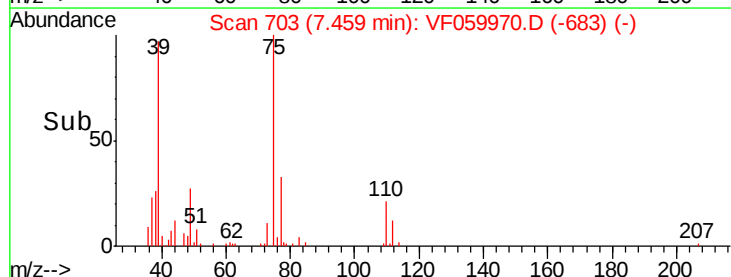
5000

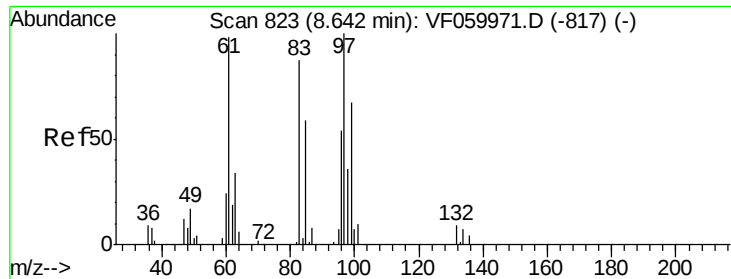
0

7.46

7.40 7.50 7.60

Time-->





#55

1,1,2-Trichloroethane

Concen: 26.906 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 23343

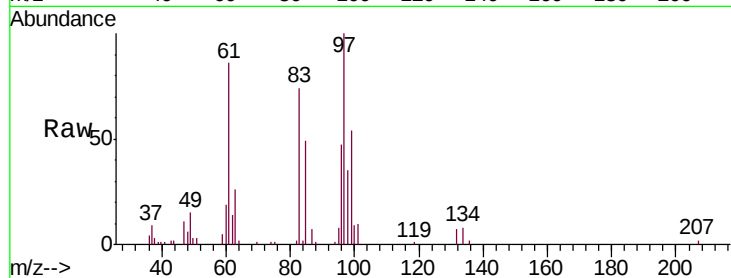
Ion Ratio Lower Upper

97 100

83 74.3 69.7 104.5

85 48.9 47.4 71.2

99 54.0 53.8 80.6

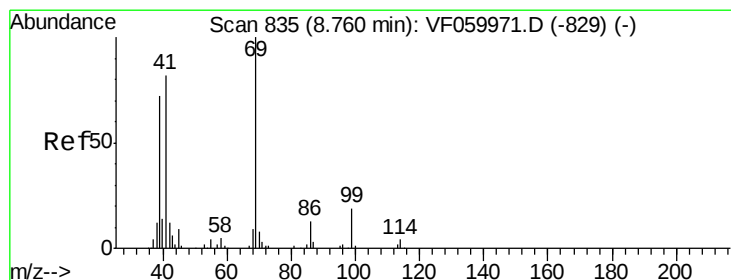
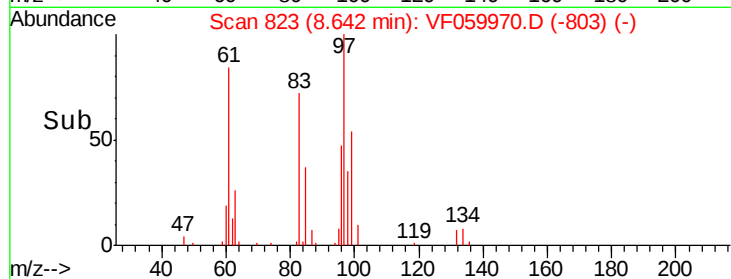
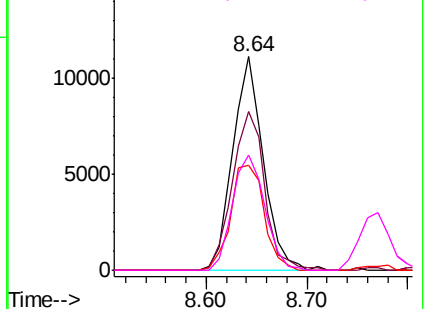


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 27.761 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

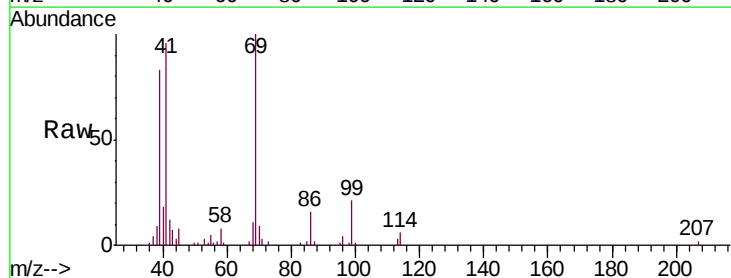
Tgt Ion: 69 Resp: 26934

Ion Ratio Lower Upper

69 100

41 96.3 65.6 98.4

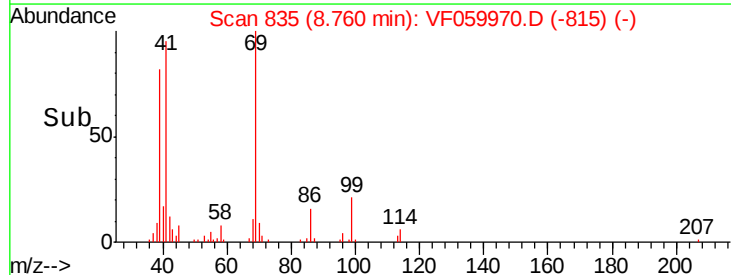
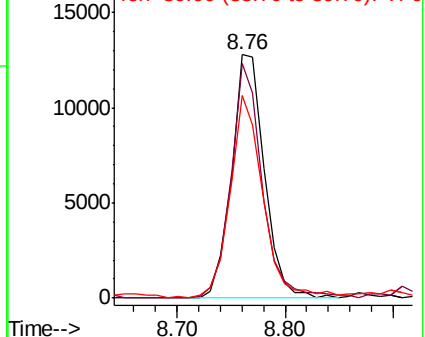
39 83.4 58.1 87.1

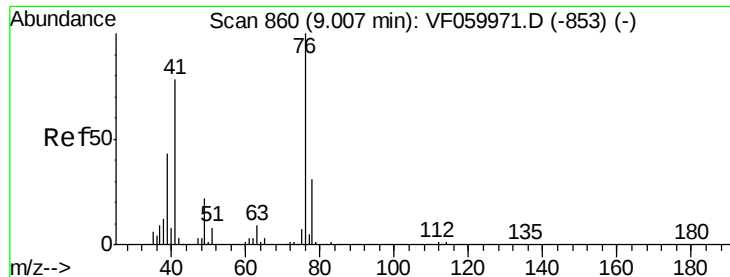


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 25.251 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

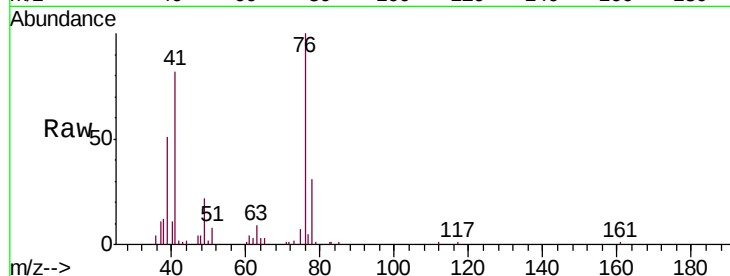
VSTDIC020

Tgt Ion: 76 Resp: 40132

Ion Ratio Lower Upper

76 100

78 31.0 24.7 37.1



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

20000

15000

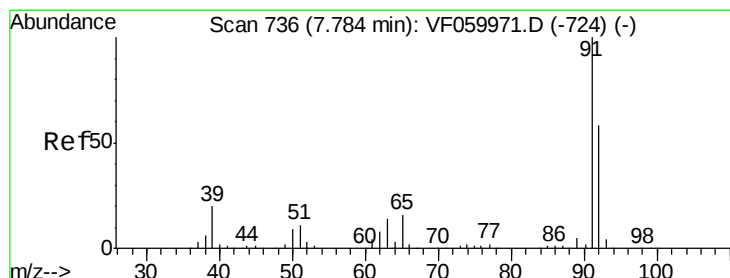
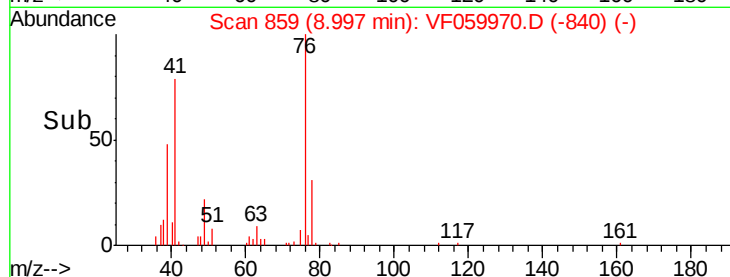
10000

5000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 110.189 ug/l

RT: 7.77 min Scan# 735

Delta R.T. -0.01 min

Lab File: VF059970.D

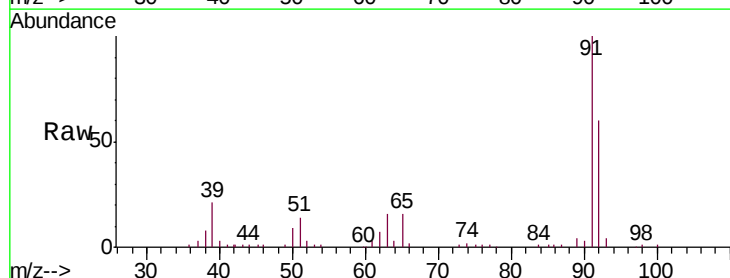
Acq: 16 Aug 2018 20:09

Tgt Ion: 63 Resp: 13027

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

6000

5000

4000

3000

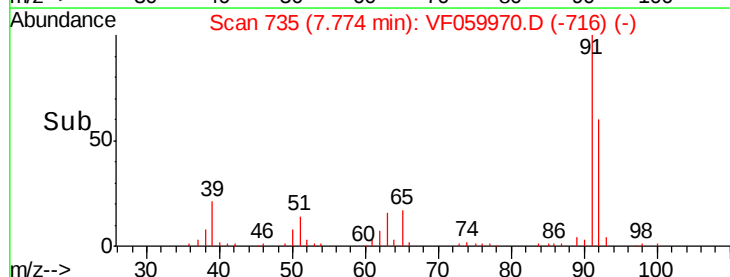
2000

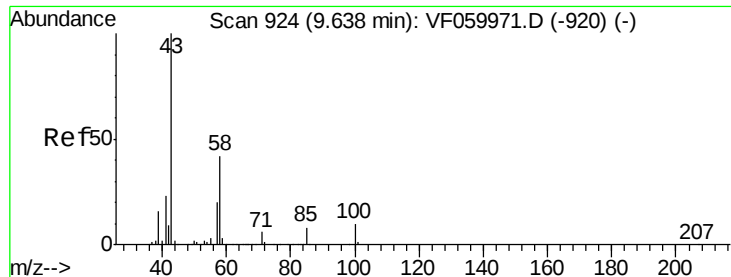
1000

0

7.70 7.75 7.80 7.85

Time-->

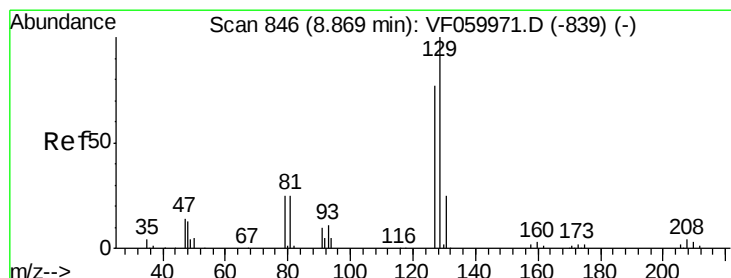
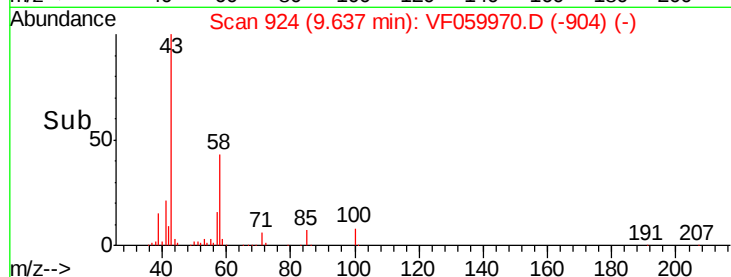
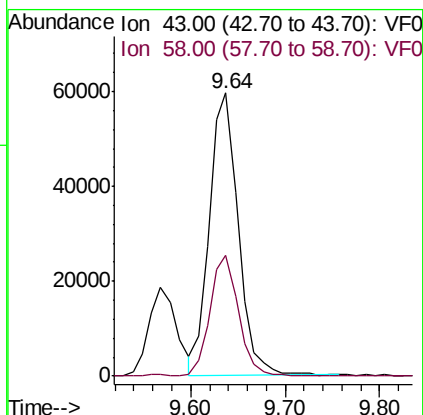
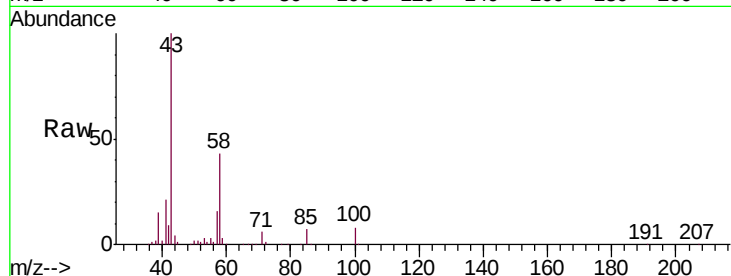




#59
2-Hexanone
Concen: 174.181 ug/l
RT: 9.64 min Scan# 924
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

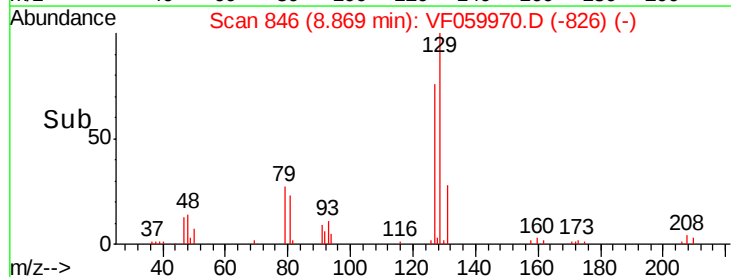
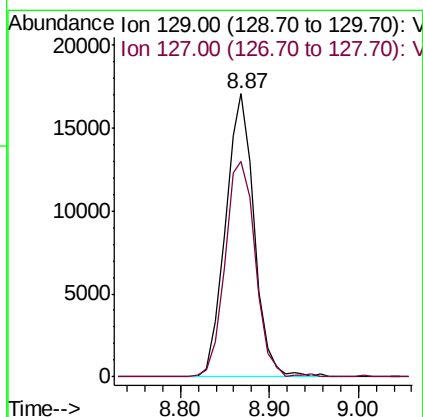
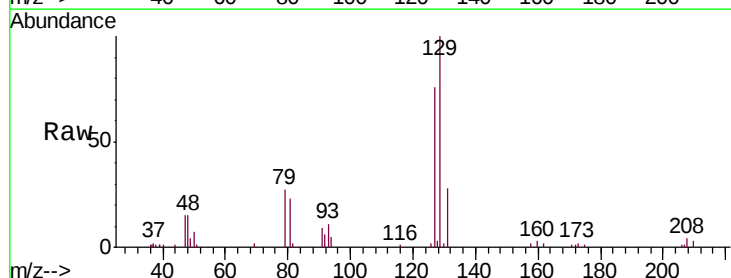
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

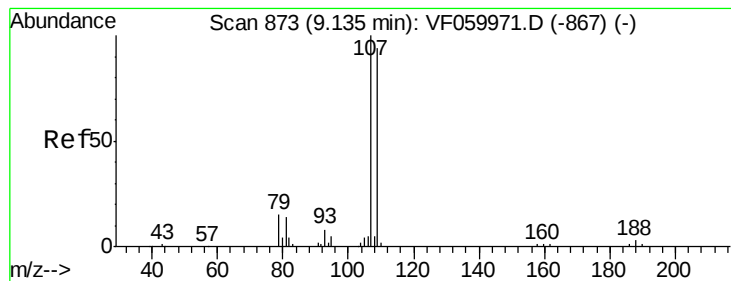
Tgt Ion: 43 Resp: 126345
Ion Ratio Lower Upper
43 100
58 42.7 19.8 59.3



#60
Dibromochloromethane
Concen: 22.825 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 129 Resp: 38445
Ion Ratio Lower Upper
129 100
127 76.2 38.4 115.2





#61

1,2-Dibromoethane

Concen: 27.651 ug/l

RT: 9.13 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

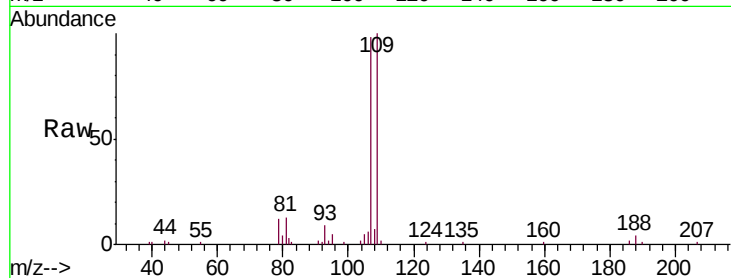
VSTDIC020

Tgt Ion:107 Resp: 30357

Ion Ratio Lower Upper

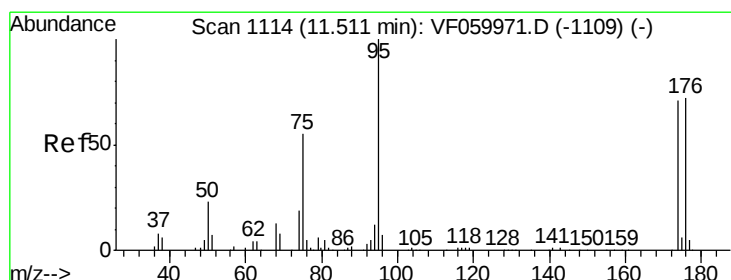
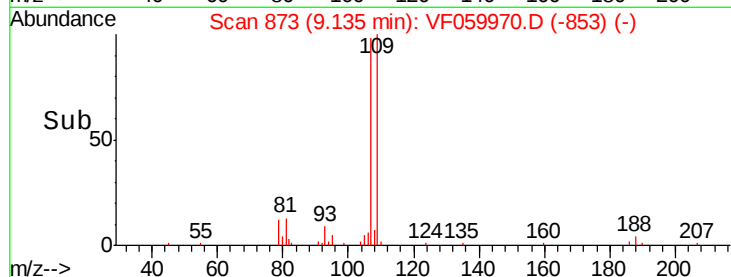
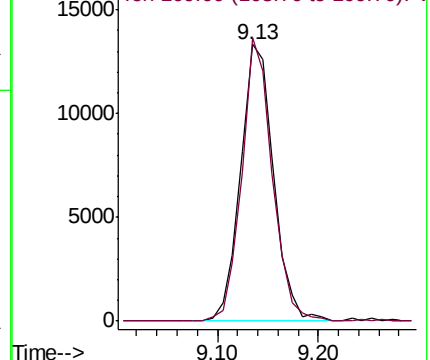
107 100

109 102.2 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 23.360 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

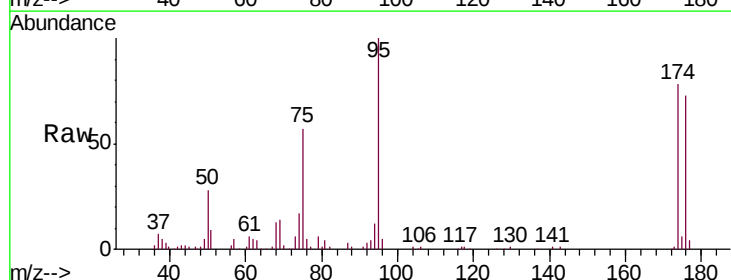
Tgt Ion: 95 Resp: 50319

Ion Ratio Lower Upper

95 100

174 77.6 0.0 142.8

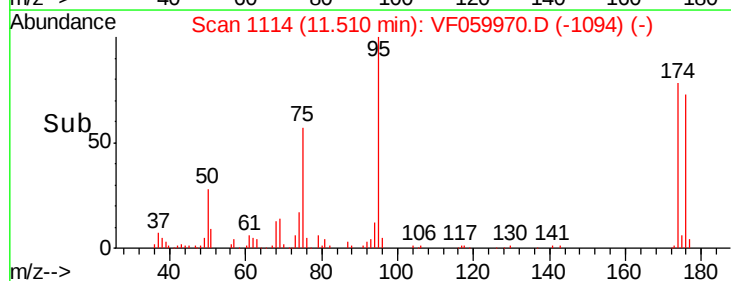
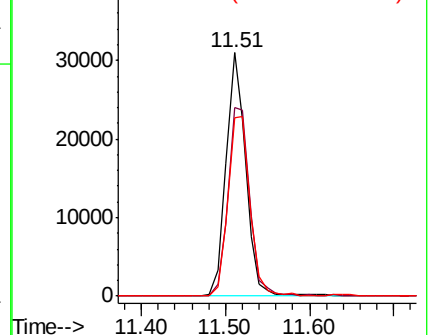
176 73.2 0.0 143.4

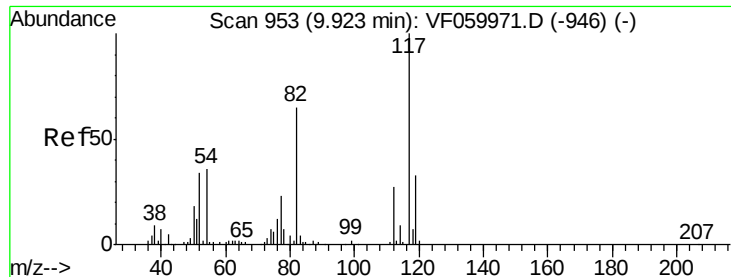


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

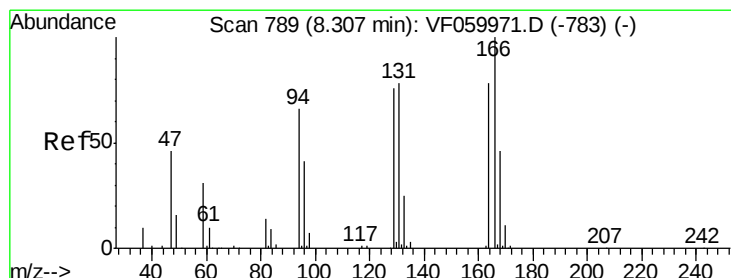
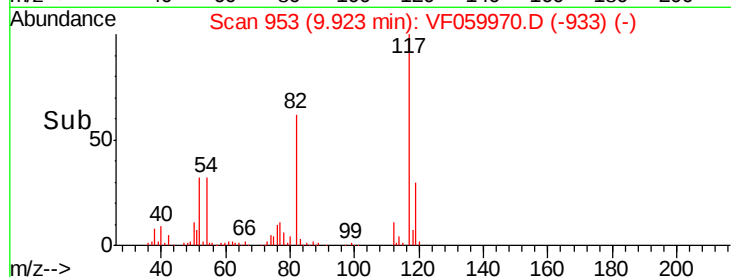
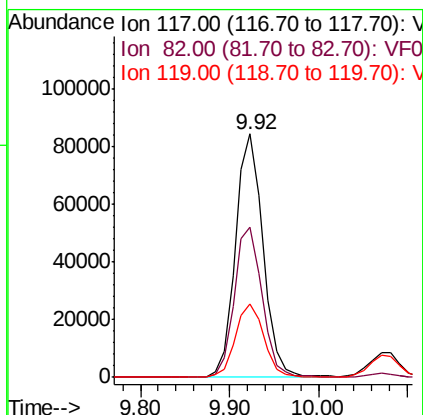
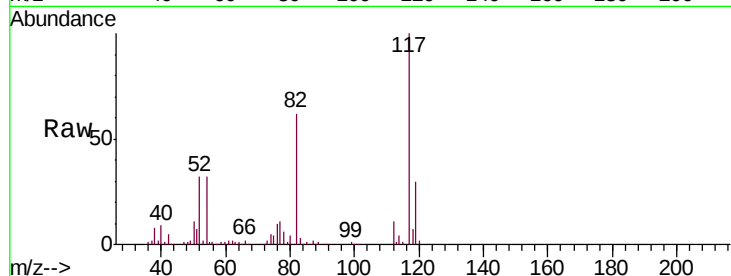




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

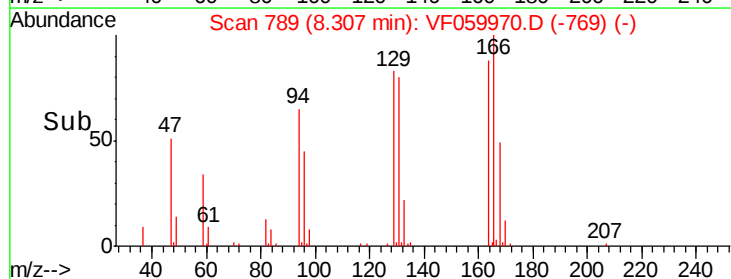
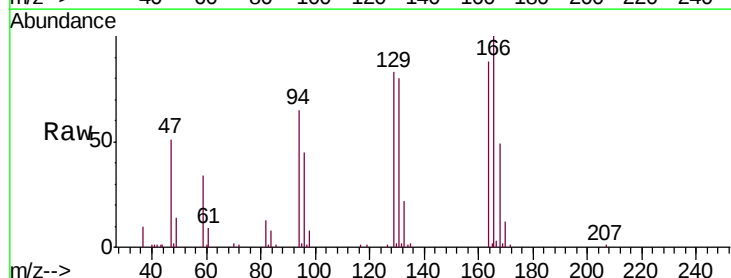
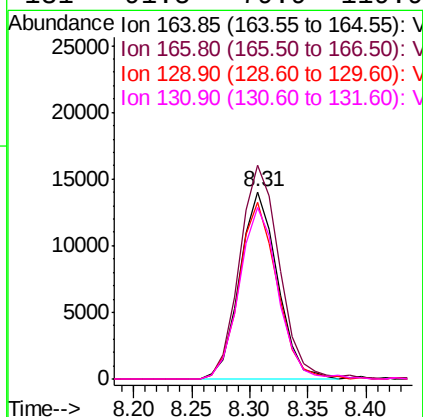
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

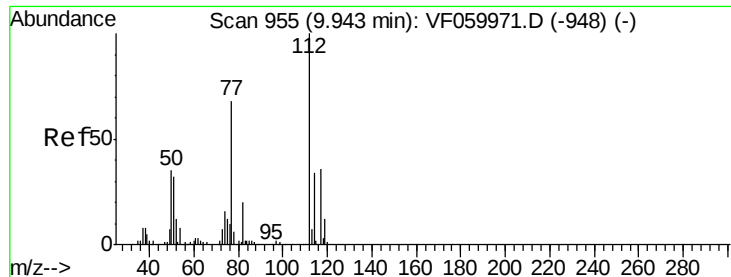
Tgt Ion	Ratio	Lower	Upper
117	100		
82	61.9	52.0	78.0
119	30.4	26.6	39.8



#64
Tetrachloroethene
Concen: 22.353 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	114.2	102.2	153.2
129	94.5	77.8	116.6
131	91.5	79.9	119.9

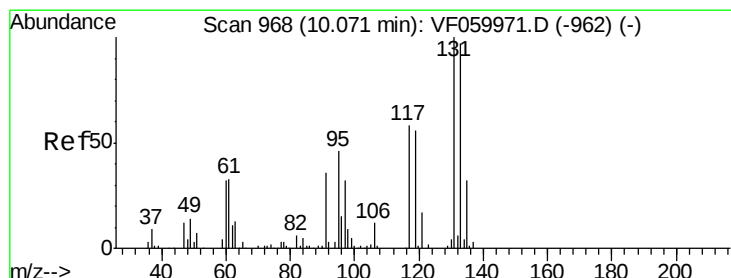
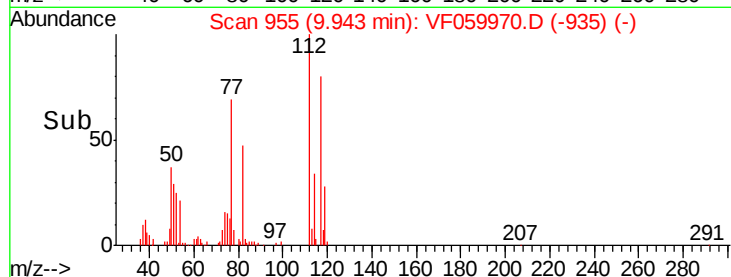
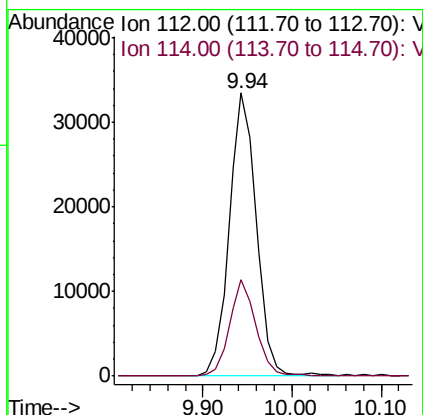
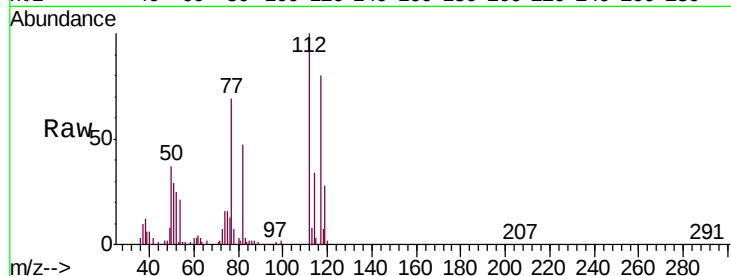




#65
Chlorobenzene
Concen: 20.270 ug/l
RT: 9.94 min Scan# 955
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

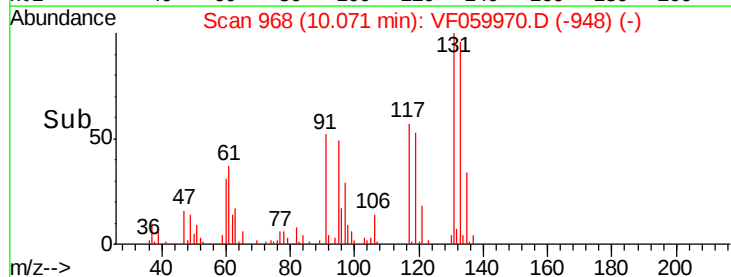
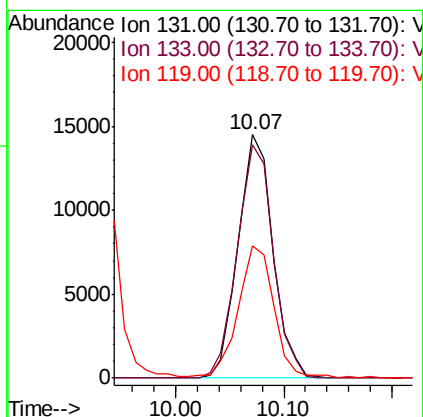
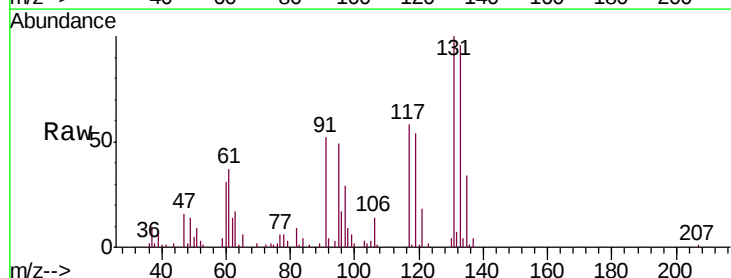
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

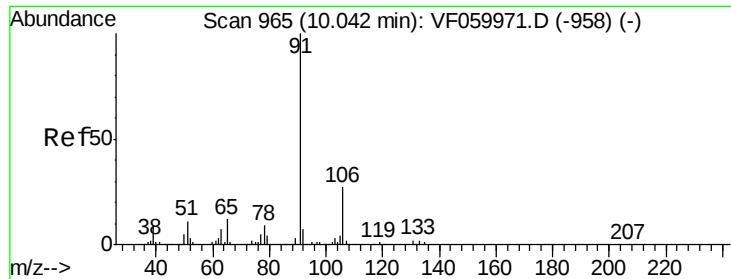
Tgt Ion:112 Resp: 71309
Ion Ratio Lower Upper
112 100
114 34.1 27.0 40.4



#66
1,1,1,2-Tetrachloroethane
Concen: 19.173 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion:131 Resp: 32534
Ion Ratio Lower Upper
131 100
133 96.0 48.5 145.6
119 54.2 28.4 85.2

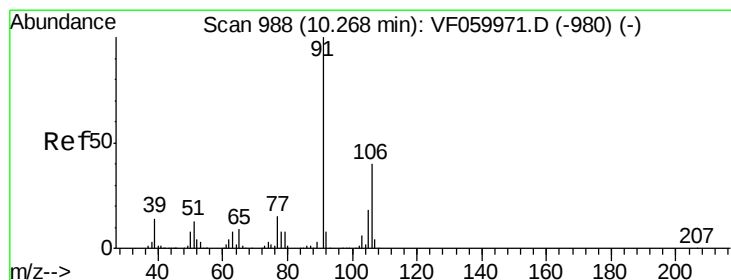
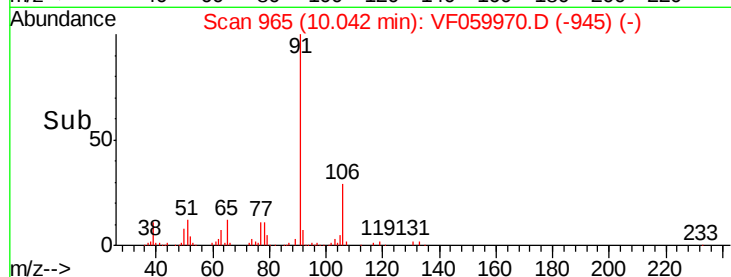
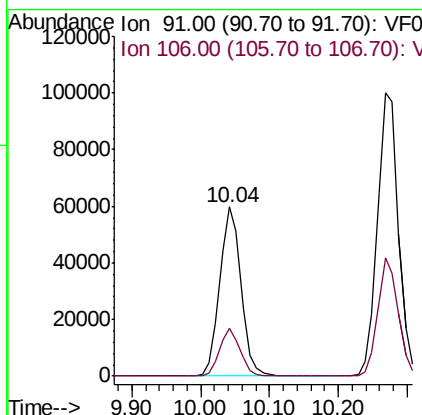
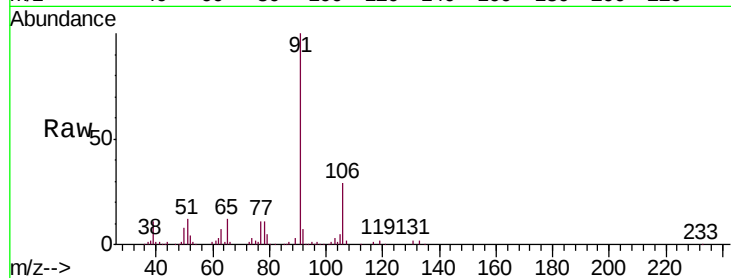




#67
Ethyl Benzene
Concen: 20.580 ug/l
RT: 10.04 min Scan# 965
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

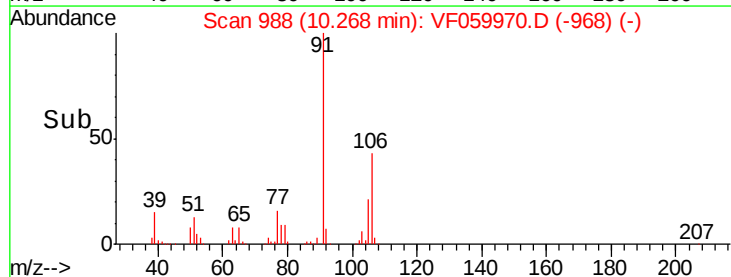
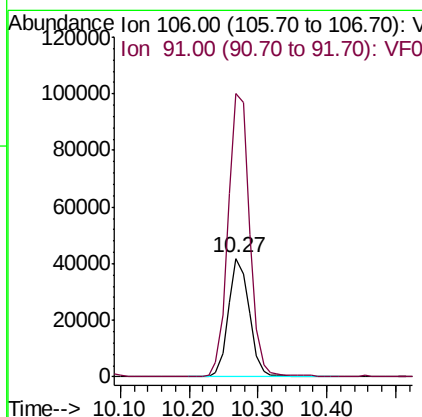
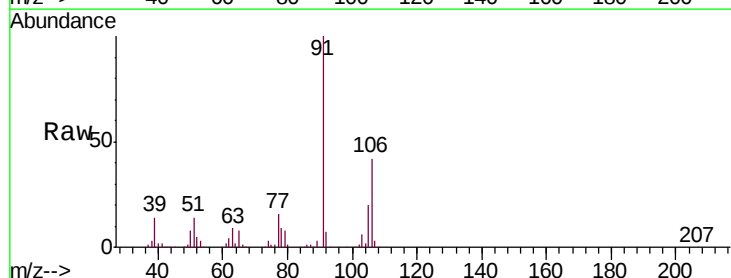
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

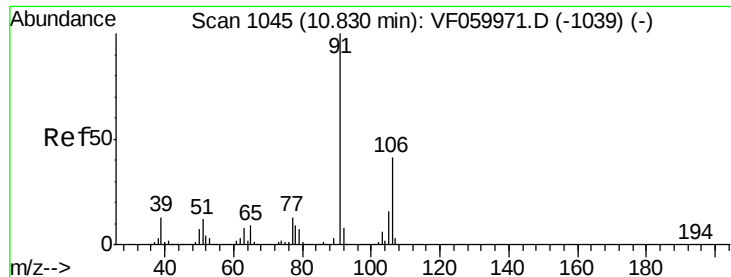
Tgt Ion: 91 Resp: 128228
Ion Ratio Lower Upper
91 100
106 28.6 21.8 32.8



#68
m/p-Xylenes
Concen: 42.091 ug/l
RT: 10.27 min Scan# 988
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 106 Resp: 88376
Ion Ratio Lower Upper
106 100
91 239.0 198.0 297.0

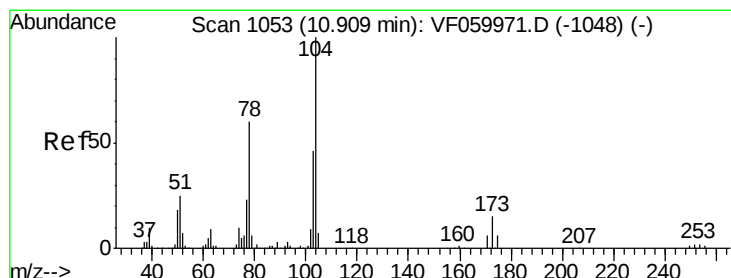
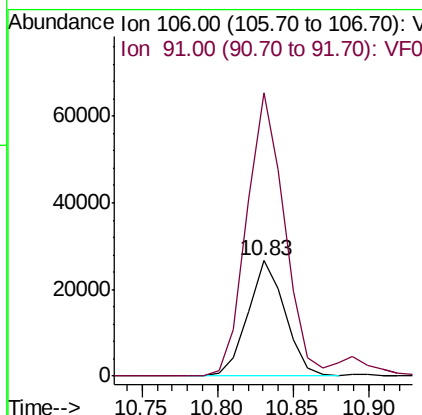
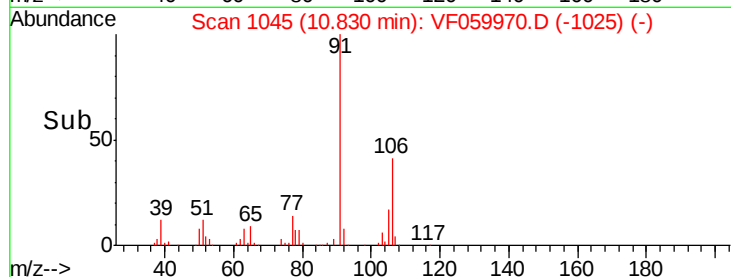
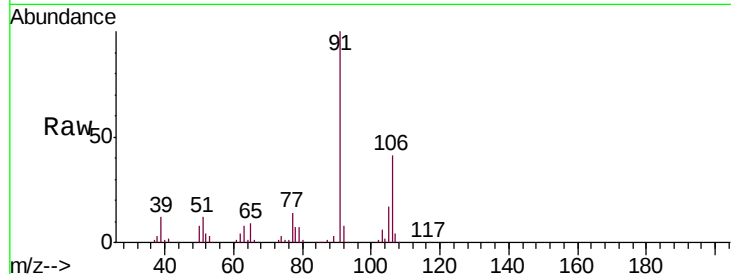




#69
o-Xylene
Concen: 20.147 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

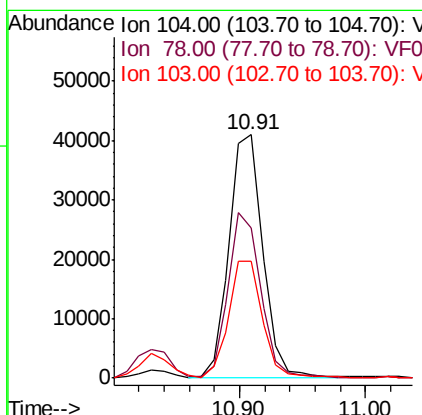
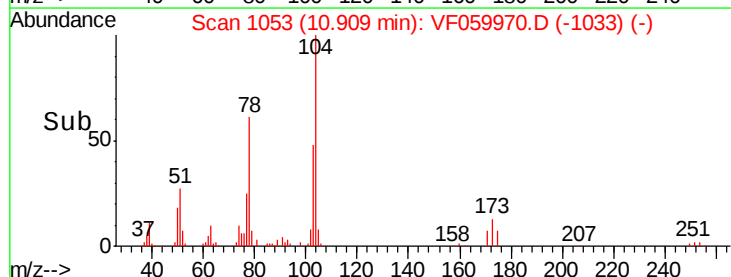
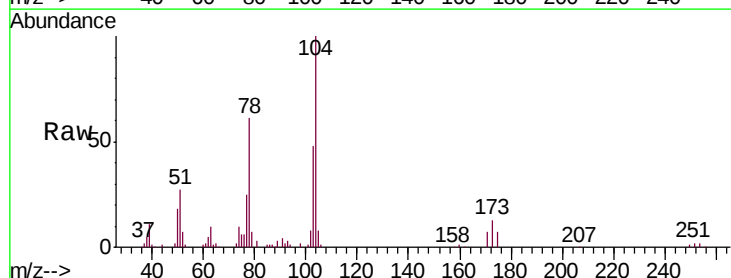
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

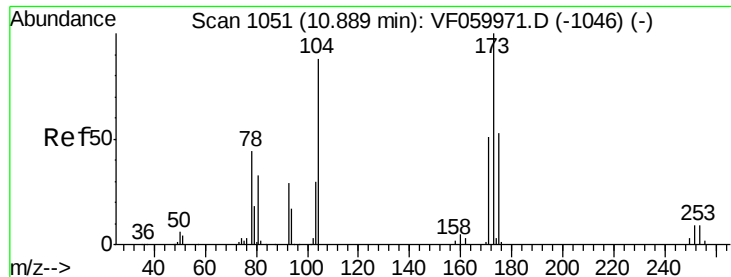
Tgt Ion:106 Resp: 45859
Ion Ratio Lower Upper
106 100
91 244.9 121.9 365.7



#70
Styrene
Concen: 22.054 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion:104 Resp: 75315
Ion Ratio Lower Upper
104 100
78 61.5 49.0 73.4
103 48.0 37.5 56.3





#71

Bromoform

Concen: 25.910 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

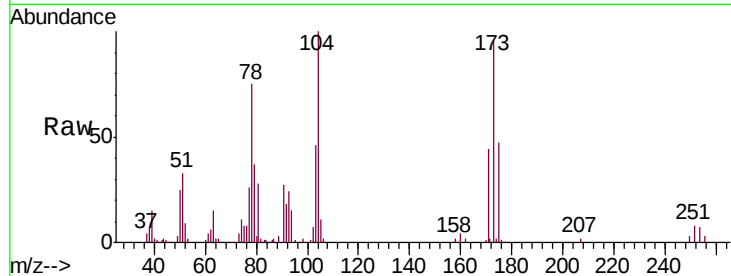
Tgt Ion:173 Resp: 29021

Ion Ratio Lower Upper

173 100

175 49.4 26.3 78.8

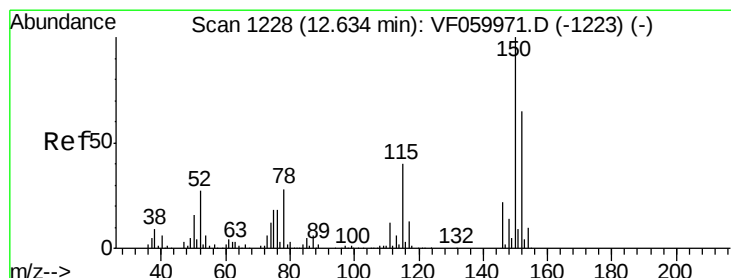
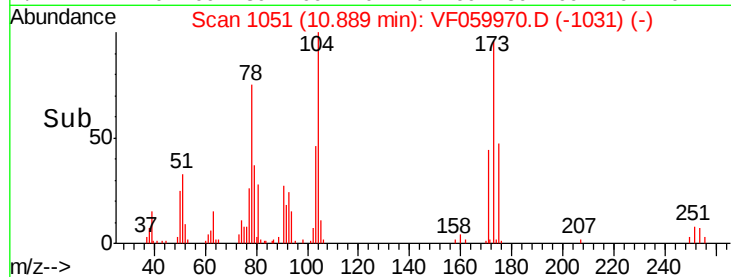
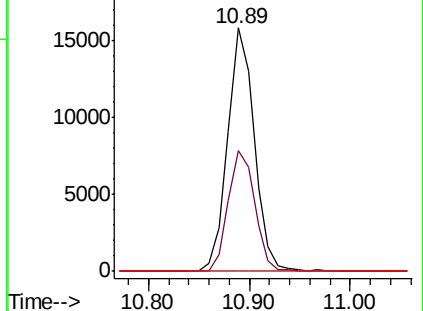
254 0.0 0.0 0.0



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# 1228

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

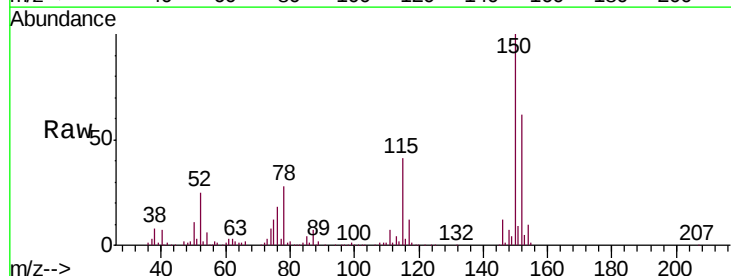
Tgt Ion:152 Resp: 130748

Ion Ratio Lower Upper

152 100

115 65.9 30.6 92.0

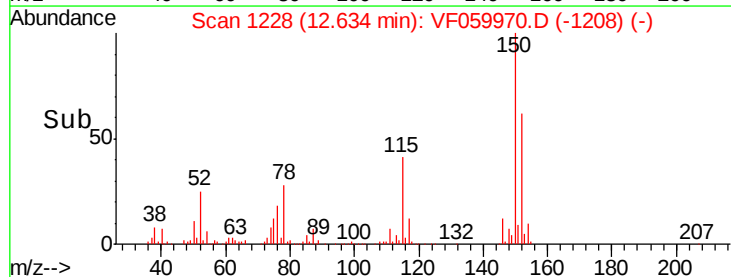
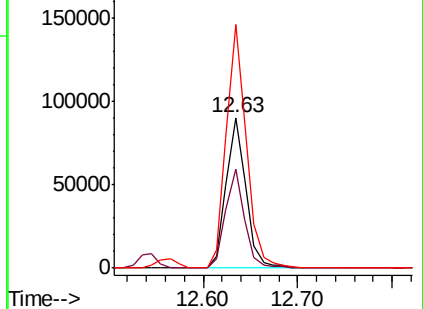
150 162.1 0.0 308.2

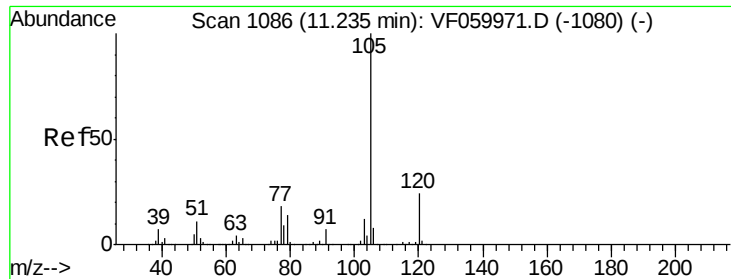


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 18.449 ug/l

RT: 11.23 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

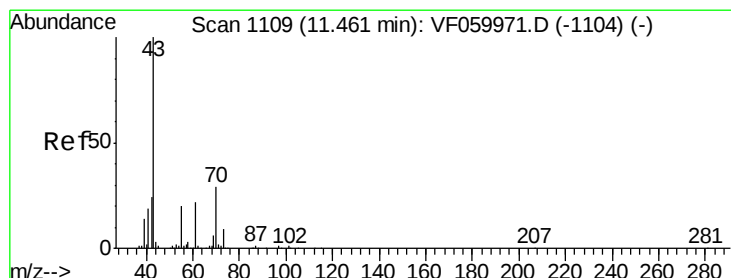
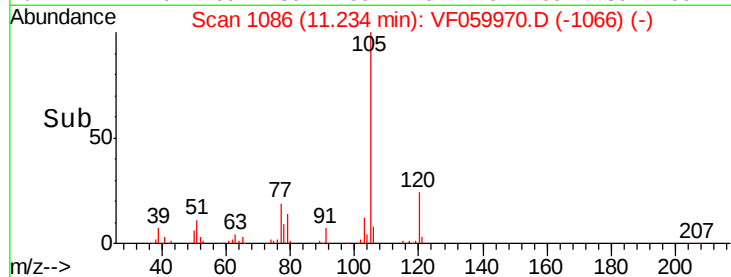
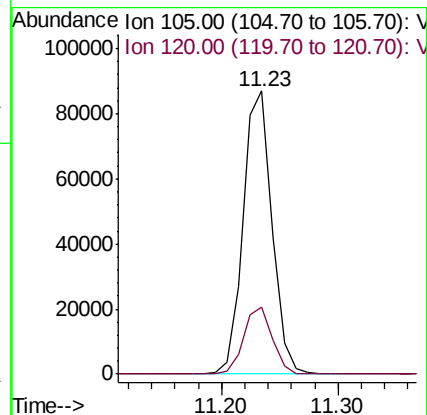
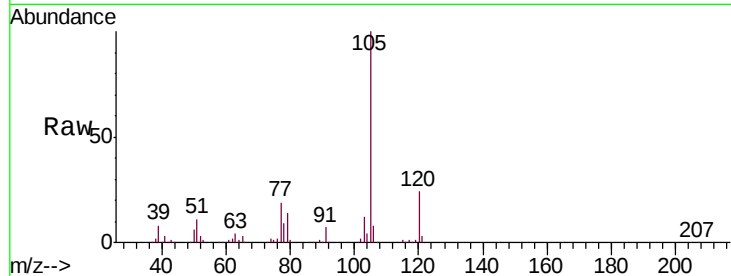
VSTDIC020

Tgt Ion: 105 Resp: 149142

Ion Ratio Lower Upper

105 100

120 23.8 11.9 35.5



#74

N-ethyl acetate

Concen: 25.930 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Tgt Ion: 43 Resp: 50806

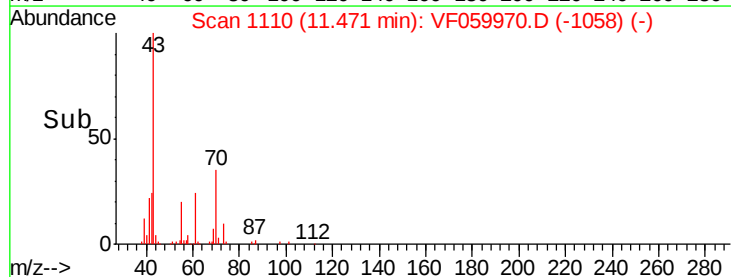
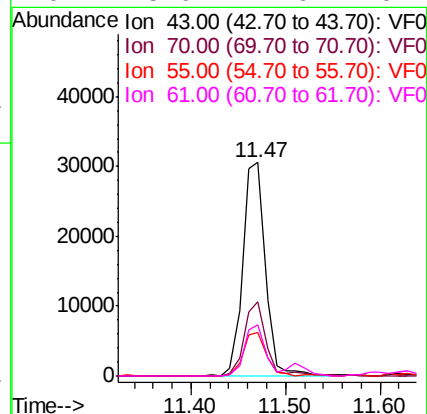
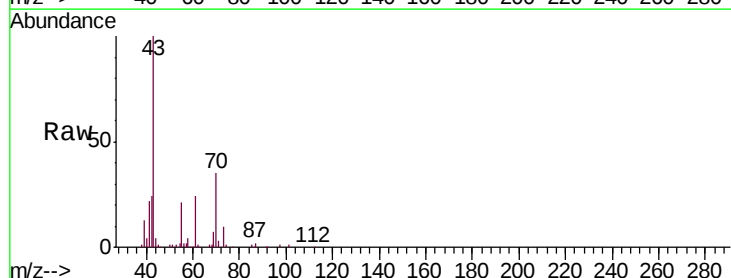
Ion Ratio Lower Upper

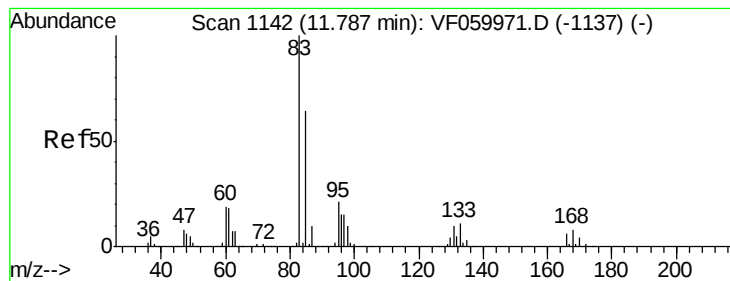
43 100

70 34.8 23.2 34.8#

55 20.6 15.8 23.8

61 23.9 17.6 26.4





#75

1,1,2,2-Tetrachloroethane

Concen: 24.436 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

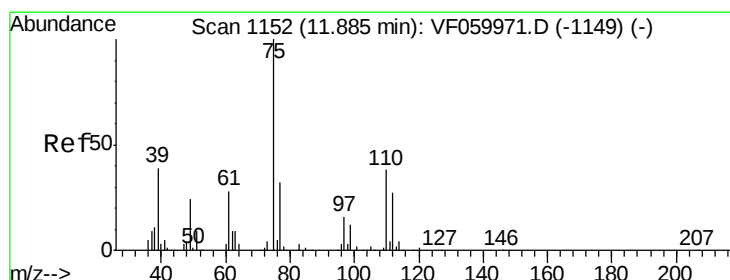
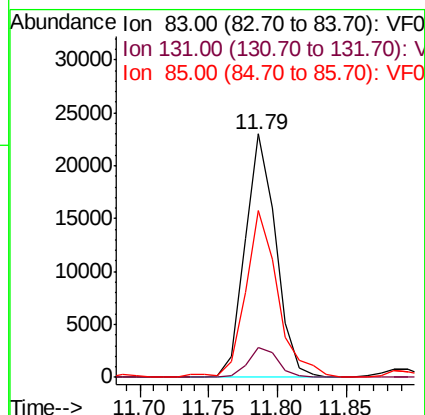
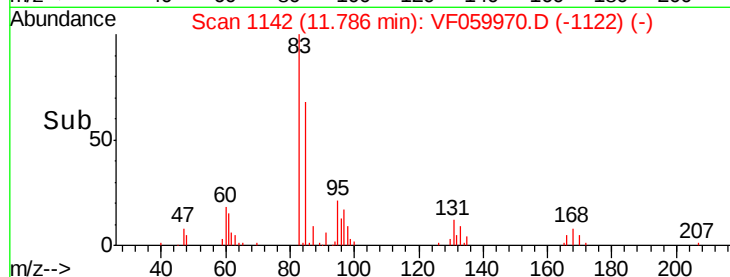
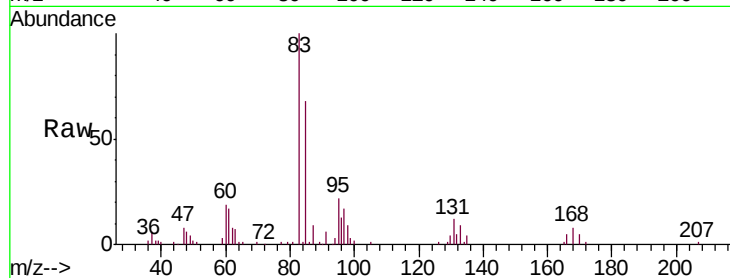
Tgt Ion: 83 Resp: 35767

Ion Ratio Lower Upper

83 100

131 12.5 5.1 15.4

85 68.3 32.3 96.9



#76

1,2,3-Trichloropropane

Concen: 28.088 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF059970.D

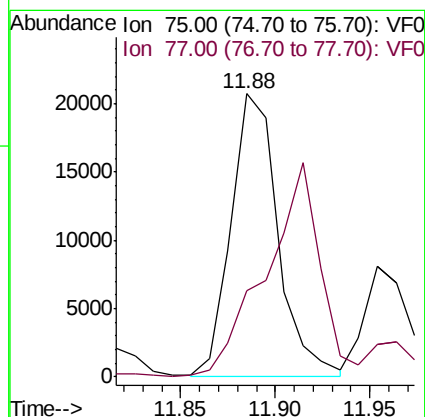
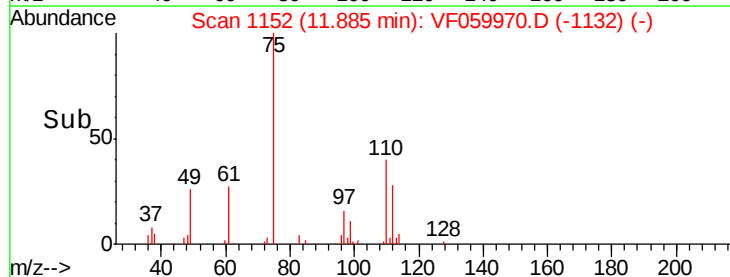
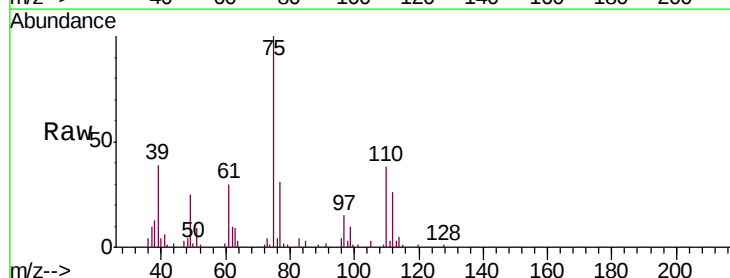
Acq: 16 Aug 2018 20:09

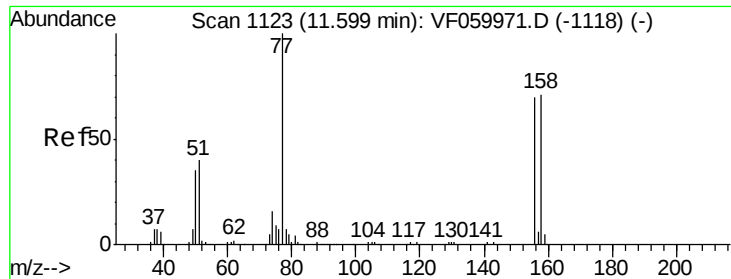
Tgt Ion: 75 Resp: 35649

Ion Ratio Lower Upper

75 100

77 30.5 16.2 48.5

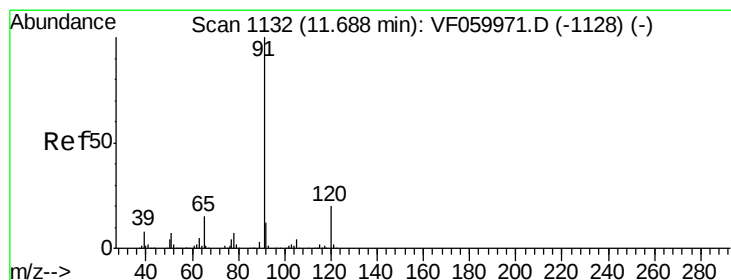
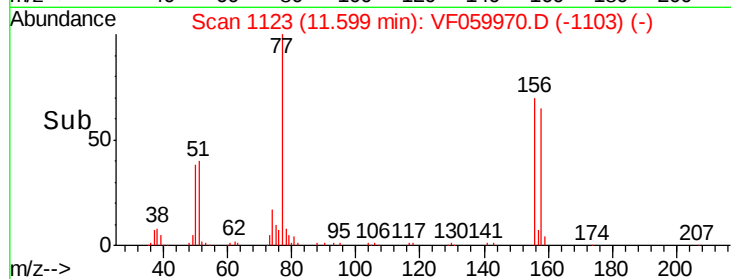
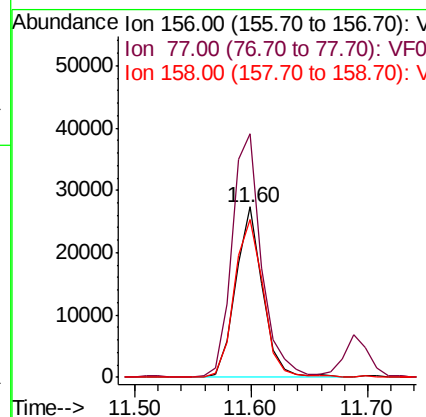
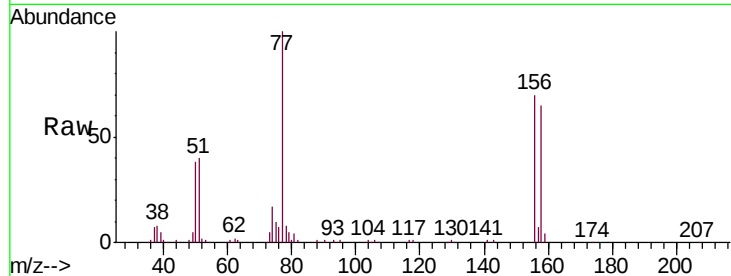




#77
Bromobenzene
Concen: 20.303 ug/l
RT: 11.60 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

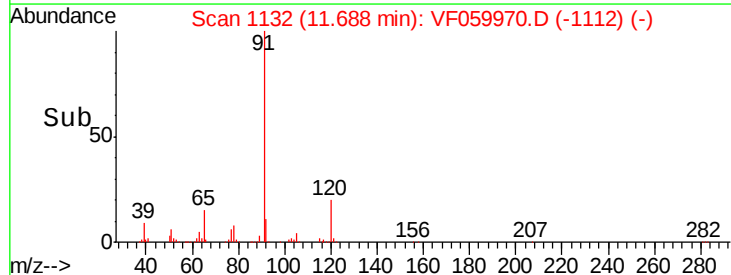
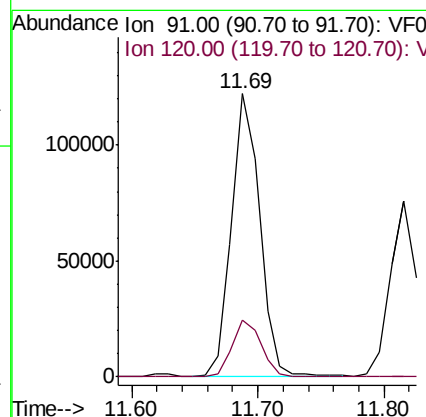
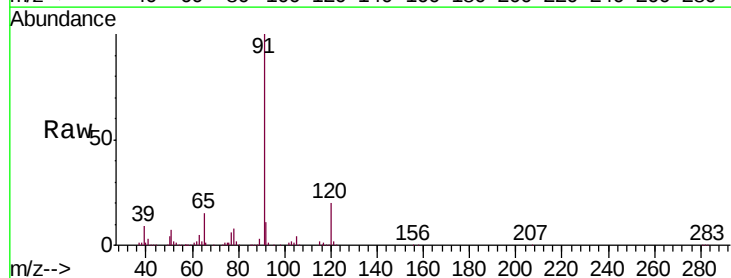
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

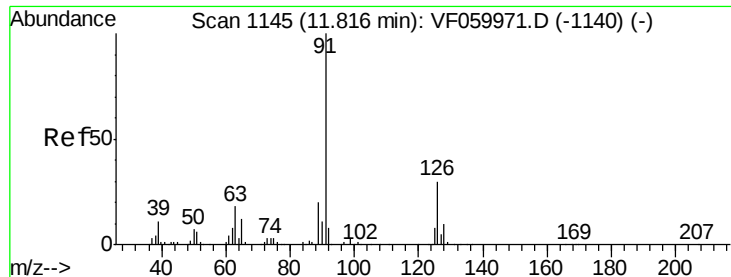
Tgt Ion:156 Resp: 43835
Ion Ratio Lower Upper
156 100
77 143.2 71.9 215.6
158 92.5 51.2 153.6



#78
n-propylbenzene
Concen: 19.676 ug/l
RT: 11.69 min Scan# 1132
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion: 91 Resp: 187493
Ion Ratio Lower Upper
91 100
120 19.9 10.2 30.6

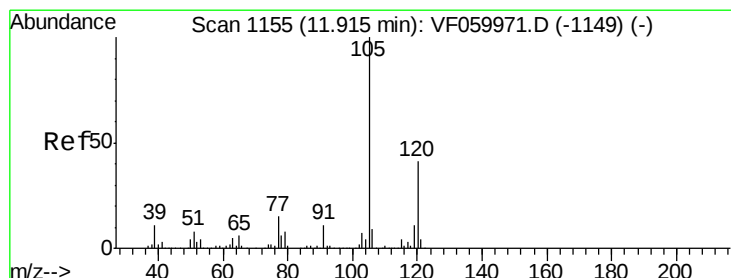
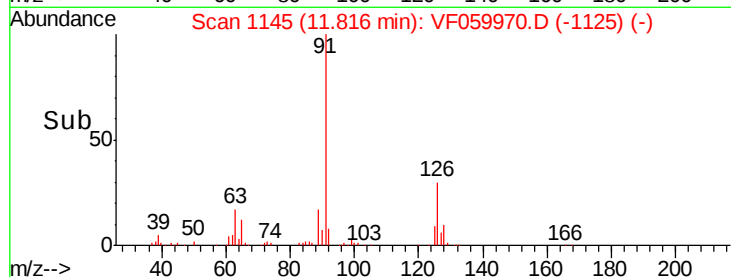
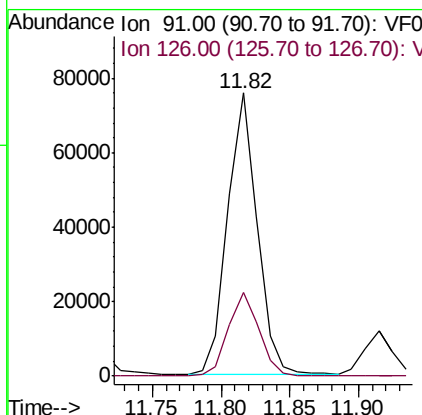
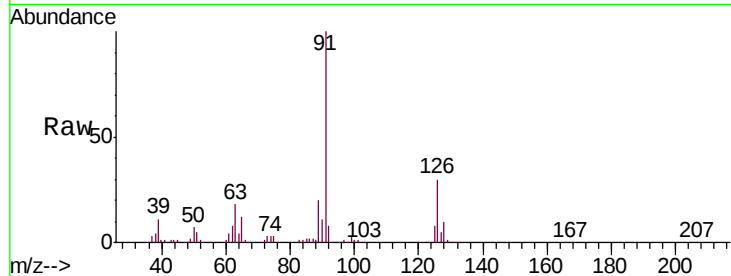




#79
 2-Chlorotoluene
 Concen: 18.939 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

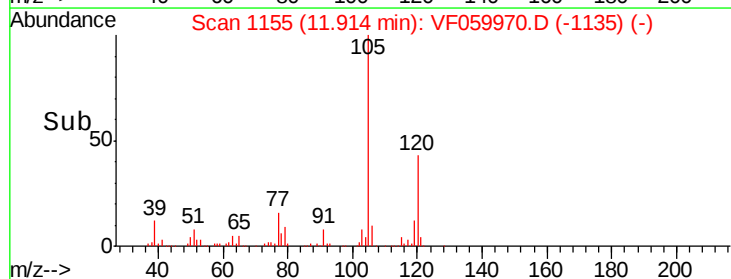
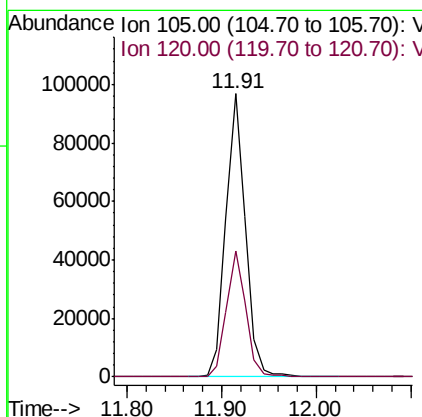
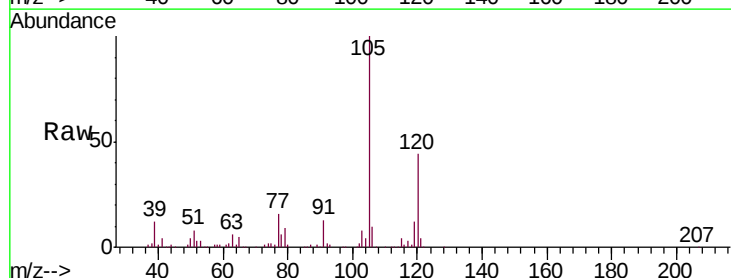
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

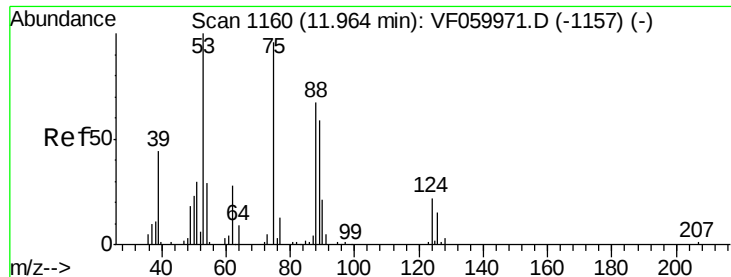
Tgt Ion: 91 Resp: 113426
 Ion Ratio Lower Upper
 91 100
 126 29.6 14.9 44.9



#80
 1,3,5-Trimethylbenzene
 Concen: 18.419 ug/l
 RT: 11.91 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion:105 Resp: 138787
 Ion Ratio Lower Upper
 105 100
 120 44.3 20.6 61.8





#81

trans-1,4-Dichloro-2-butene

Concen: 33.202 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

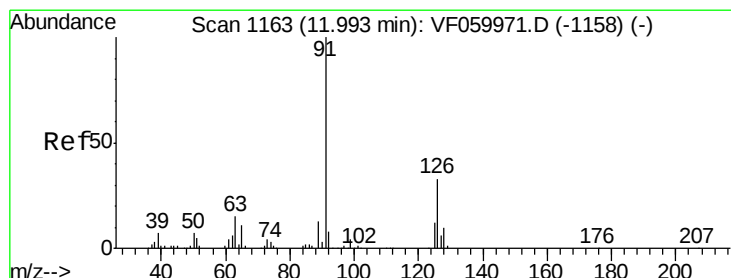
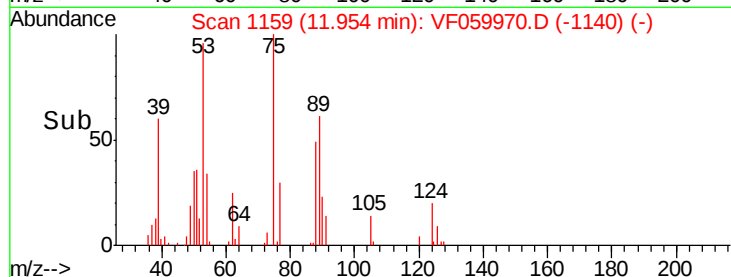
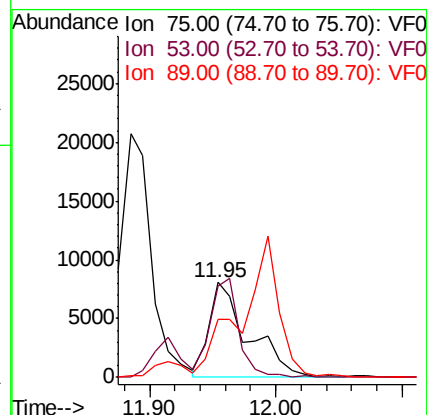
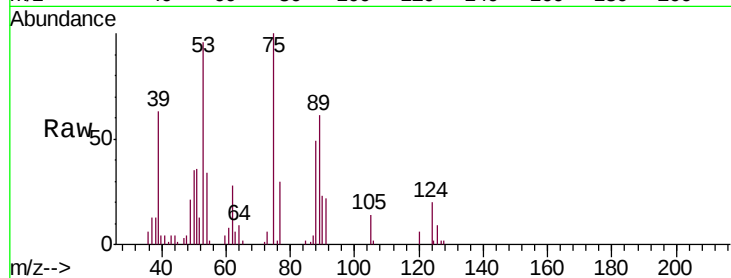
Tgt Ion: 75 Resp: 17626

Ion Ratio Lower Upper

75 100

53 95.7 85.1 127.7

89 60.6 50.2 75.4



#82

4-Chlorotoluene

Concen: 20.093 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VF059970.D

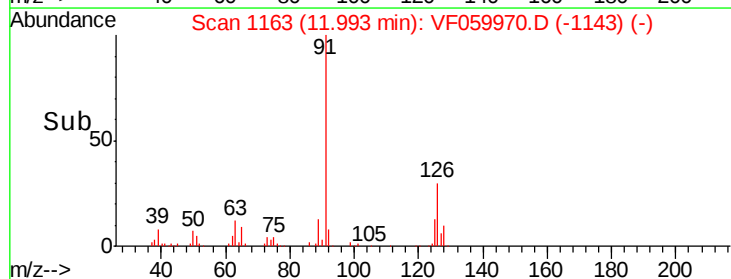
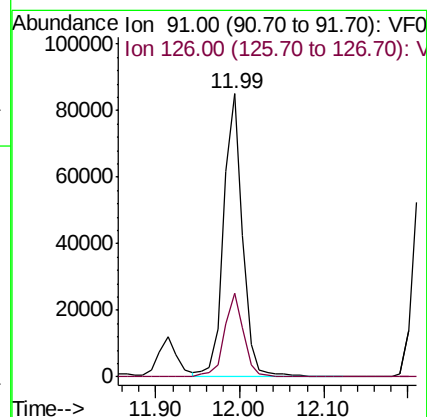
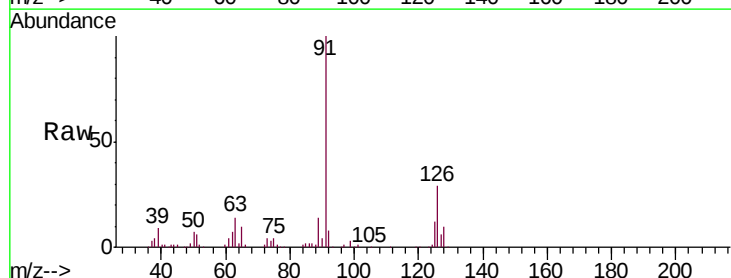
Acq: 16 Aug 2018 20:09

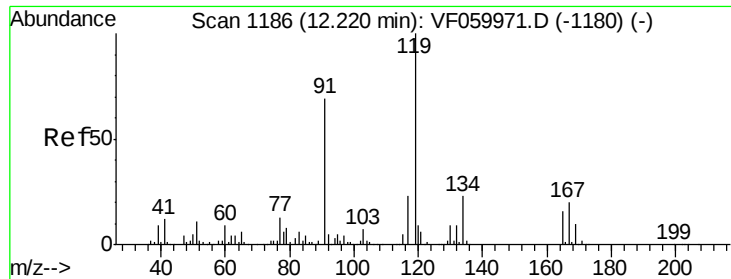
Tgt Ion: 91 Resp: 133181

Ion Ratio Lower Upper

91 100

126 29.4 16.4 49.2

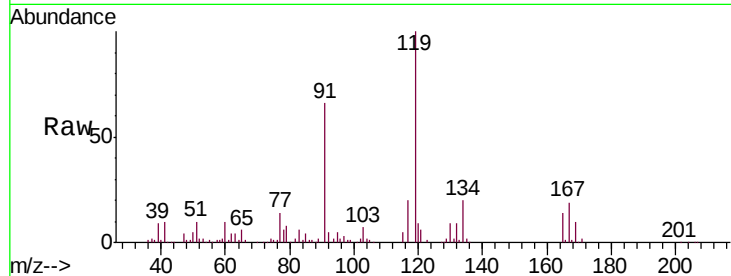




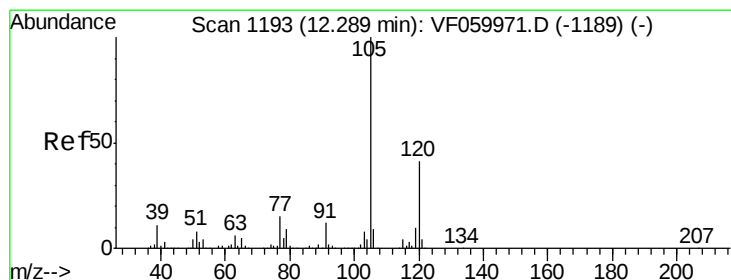
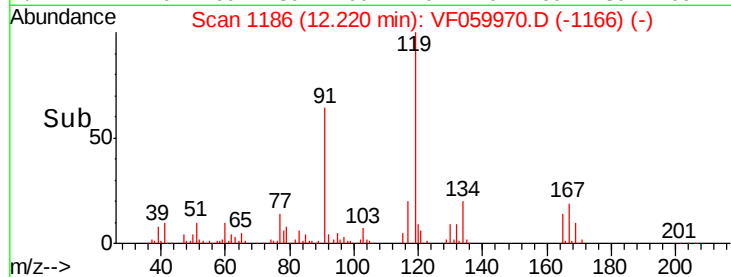
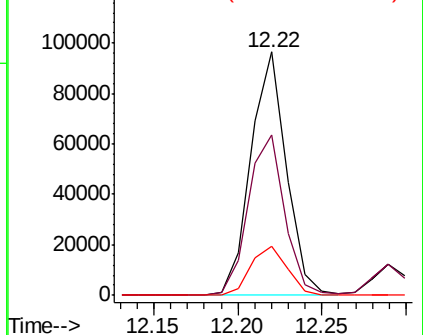
#83
 tert-Butylbenzene
 Concen: 19.193 ug/l
 RT: 12.22 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion:119 Resp: 141549
 Ion Ratio Lower Upper
 119 100
 91 66.1 34.8 104.3
 134 20.0 11.5 34.4

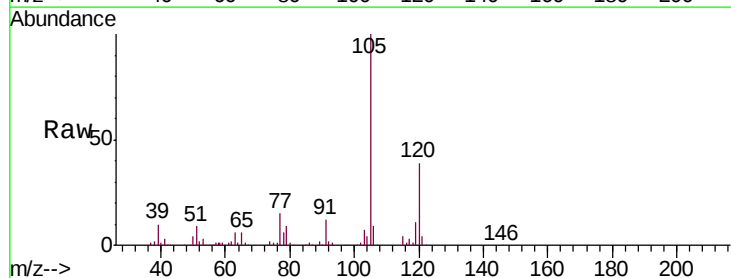


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

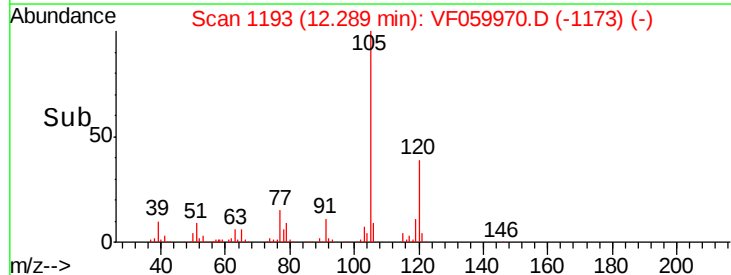
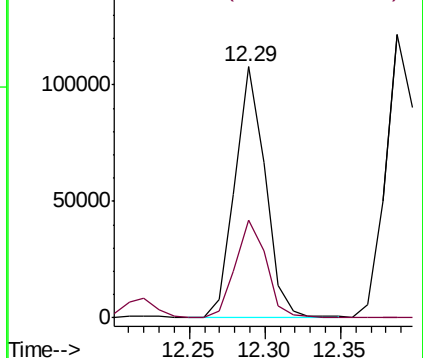


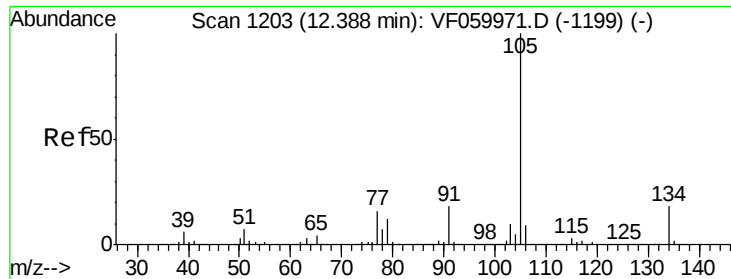
#84
 1,2,4-Trimethylbenzene
 Concen: 19.872 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion:105 Resp: 150520
 Ion Ratio Lower Upper
 105 100
 120 39.1 20.6 61.8



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

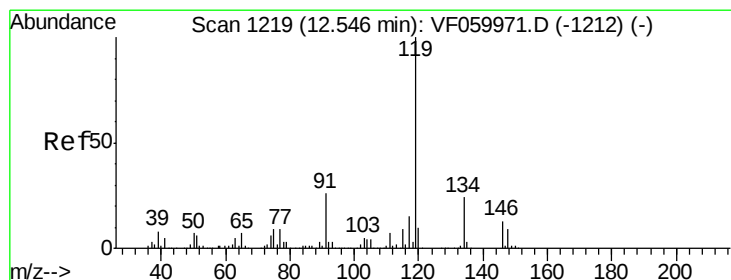
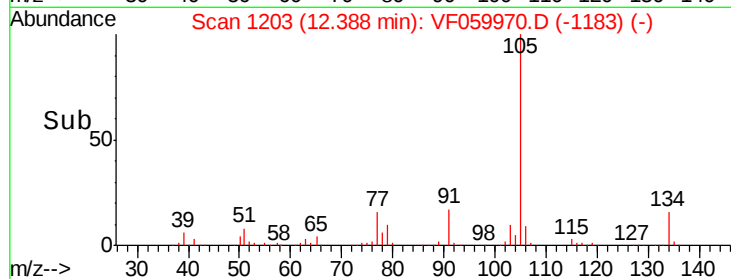
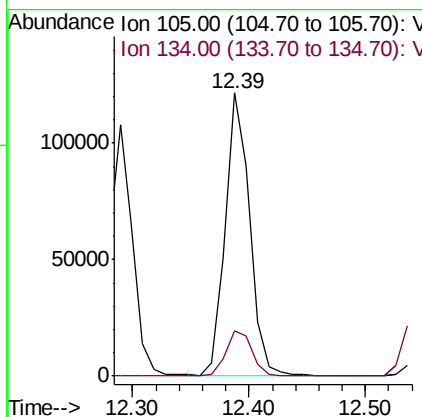
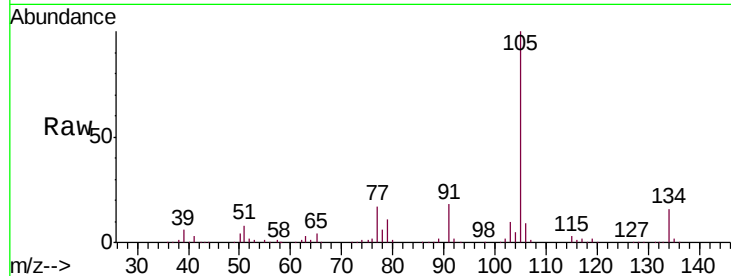




#85
 sec-Butylbenzene
 Concen: 18.857 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

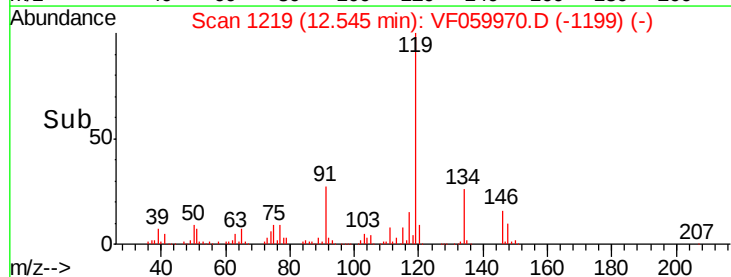
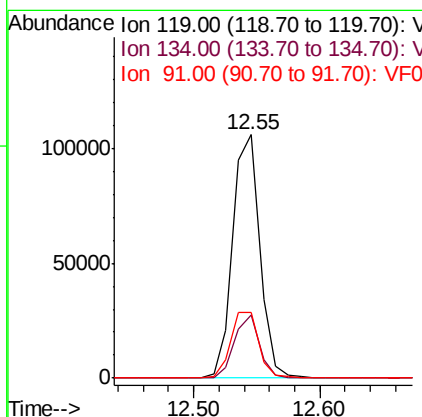
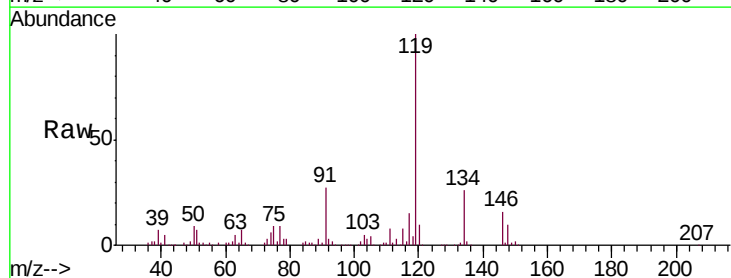
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

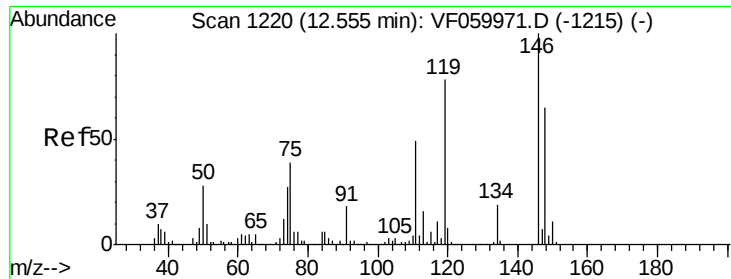
Tgt Ion:105 Resp: 176953
 Ion Ratio Lower Upper
 105 100
 134 16.1 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 18.918 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion:119 Resp: 156954
 Ion Ratio Lower Upper
 119 100
 134 25.9 12.0 36.1
 91 26.7 13.1 39.1

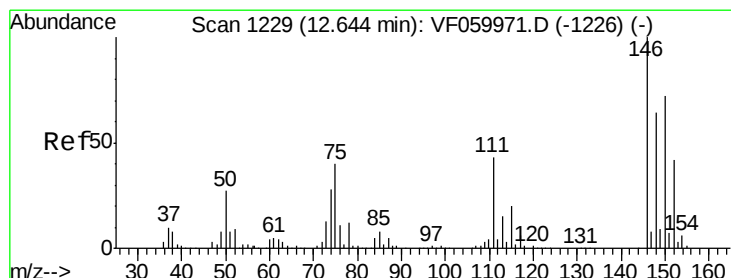
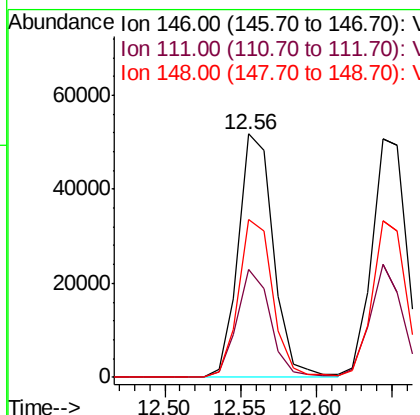
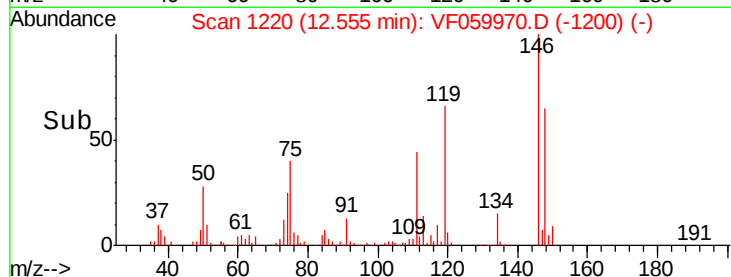
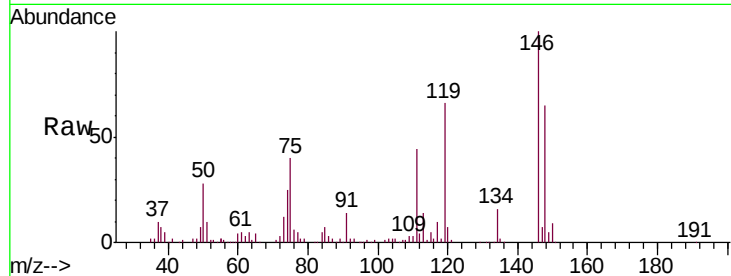




#87
 1,3-Dichlorobenzene
 Concen: 20.534 ug/l
 RT: 12.56 min Scan# 1220
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

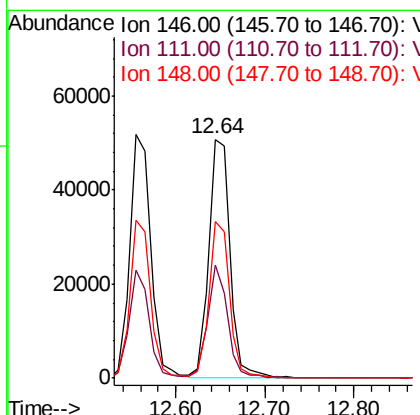
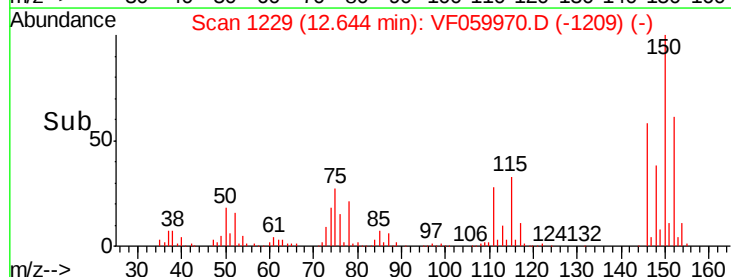
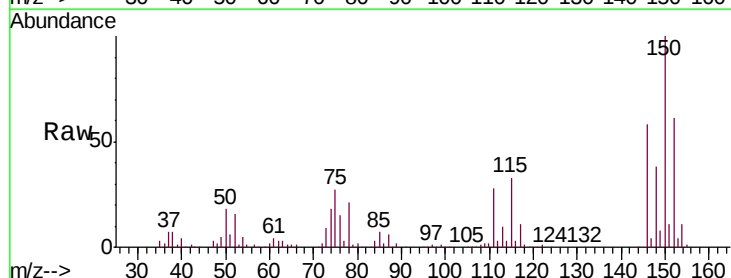
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

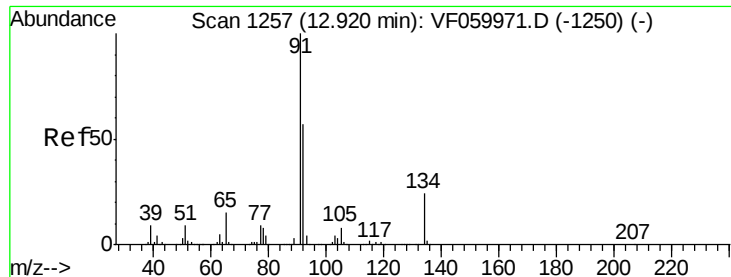
Tgt Ion:146 Resp: 83632
 Ion Ratio Lower Upper
 146 100
 111 44.2 24.4 73.2
 148 64.9 32.3 96.8



#88
 1,4-Dichlorobenzene
 Concen: 21.046 ug/l
 RT: 12.64 min Scan# 1229
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion:146 Resp: 84156
 Ion Ratio Lower Upper
 146 100
 111 47.3 21.4 64.2
 148 65.4 31.9 95.7





#89

n-Butylbenzene

Concen: 19.080 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VF059970.D

Acq: 16 Aug 2018 20:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

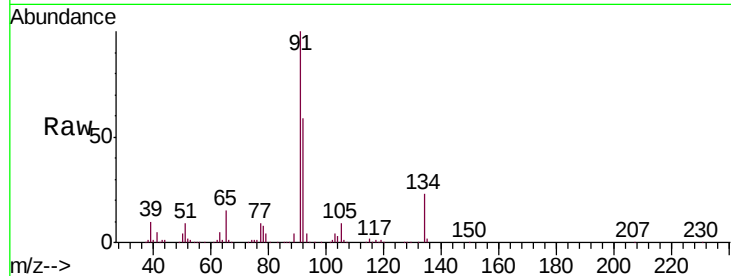
Tgt Ion: 91 Resp: 153184

Ion Ratio Lower Upper

91 100

92 59.2 28.3 85.0

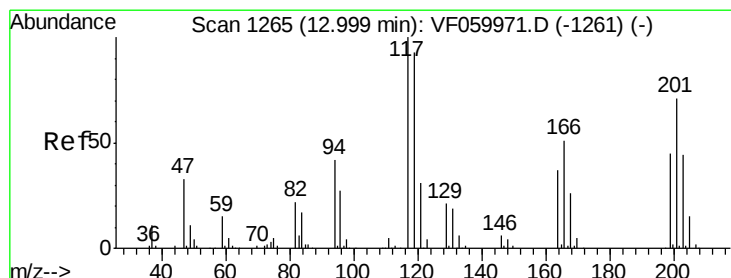
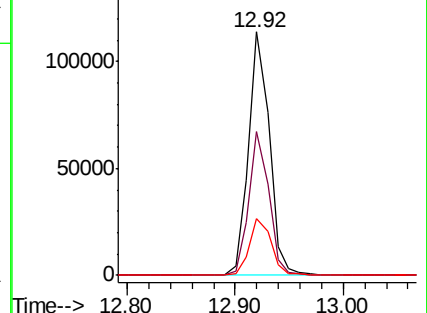
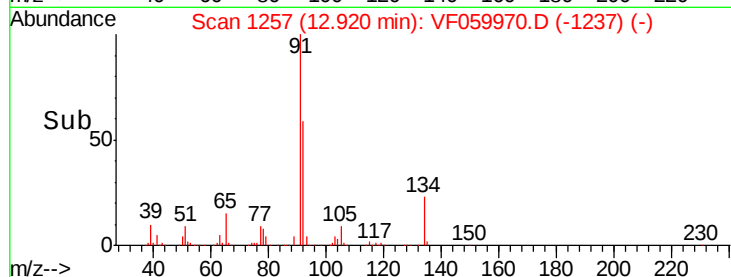
134 23.5 11.9 35.7



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: 16.900 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF059970.D

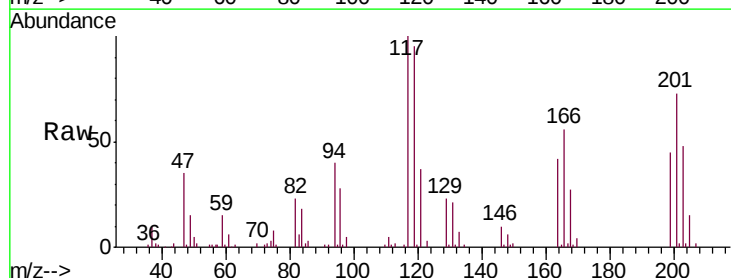
Acq: 16 Aug 2018 20:09

Tgt Ion: 117 Resp: 34392

Ion Ratio Lower Upper

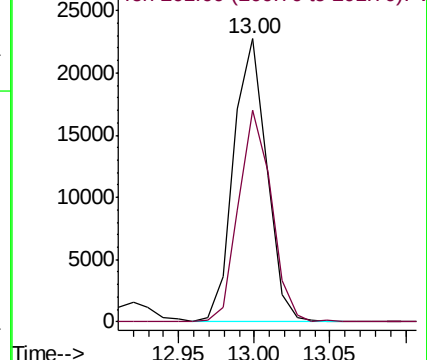
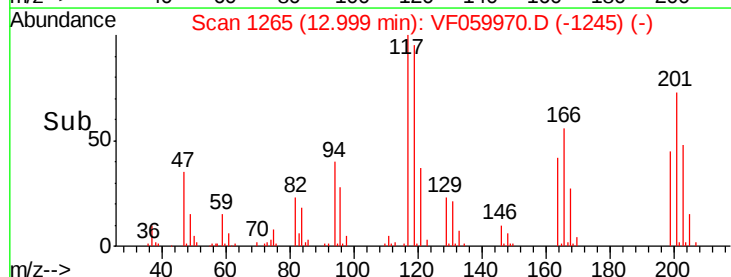
117 100

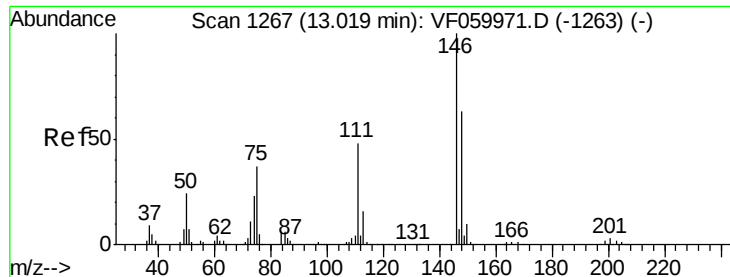
201 74.6 35.3 105.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

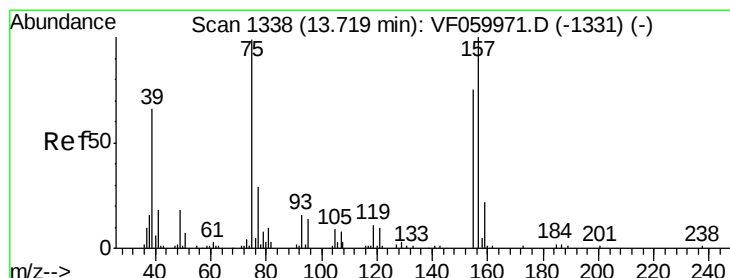
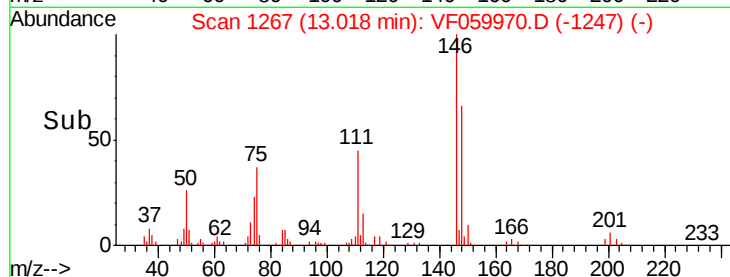
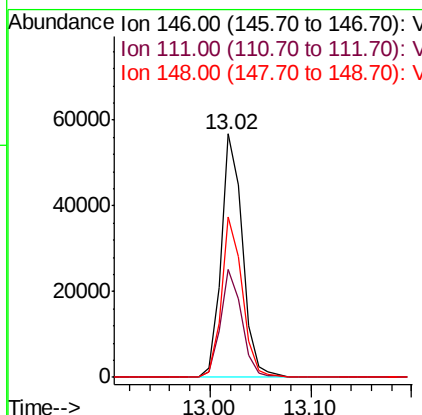
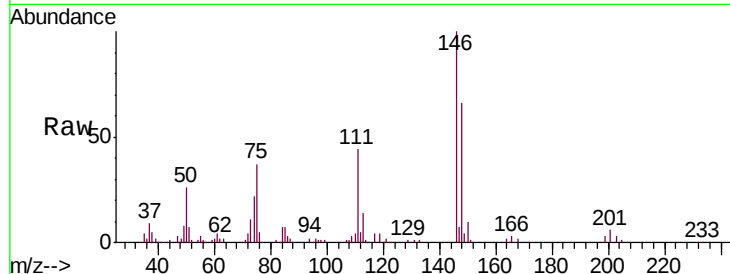




#91
 1,2-Dichlorobenzene
 Concen: 21.027 ug/l
 RT: 13.02 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

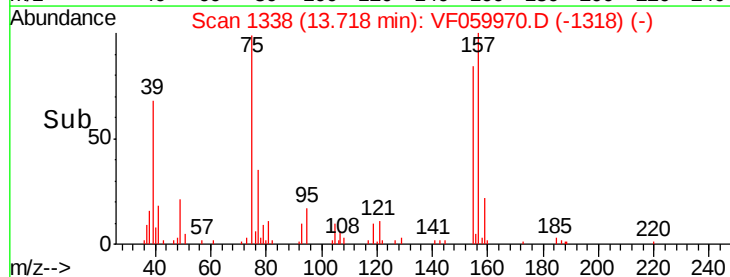
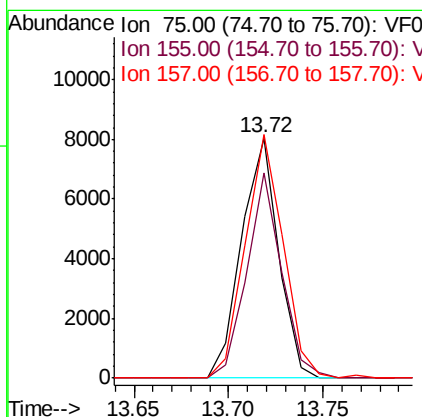
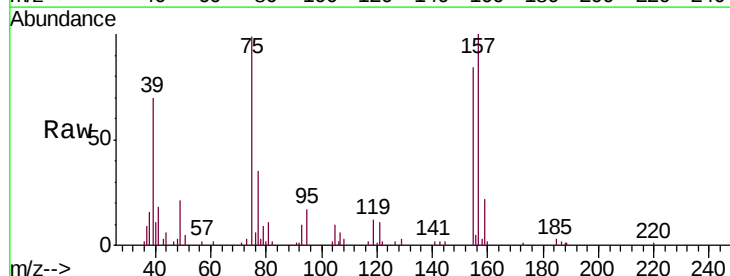
Instrument :
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 ClientSampleId :
 VSTDIC020

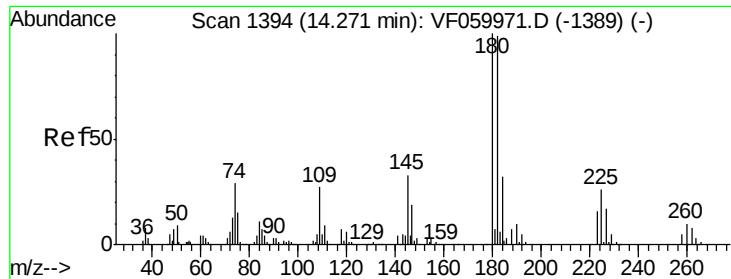
Tgt Ion: 146 Resp: 83970
 Ion Ratio Lower Upper
 146 100
 111 44.4 23.9 71.8
 148 66.0 31.4 94.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 26.340 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion: 75 Resp: 10872
 Ion Ratio Lower Upper
 75 100
 155 85.4 38.0 114.0
 157 101.3 50.6 151.8

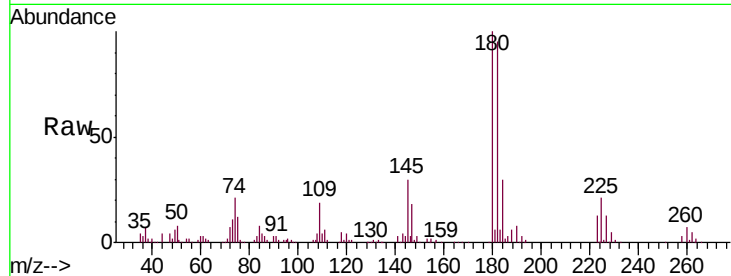




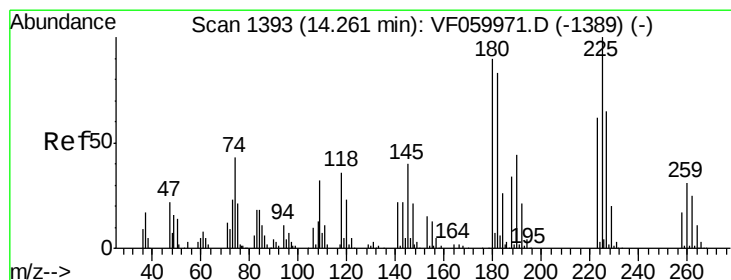
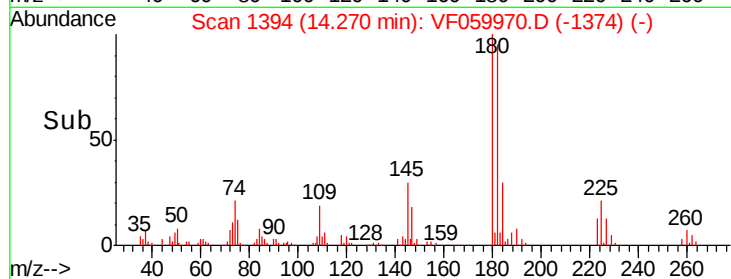
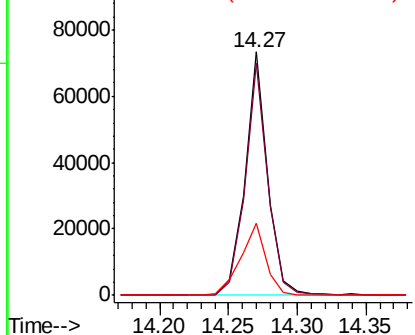
#93
 1,2,4-Trichlorobenzene
 Concen: 26.391 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tgt Ion:180 Resp: 83696
 Ion Ratio Lower Upper
 180 100
 182 95.4 49.7 149.1
 145 29.6 16.4 49.4

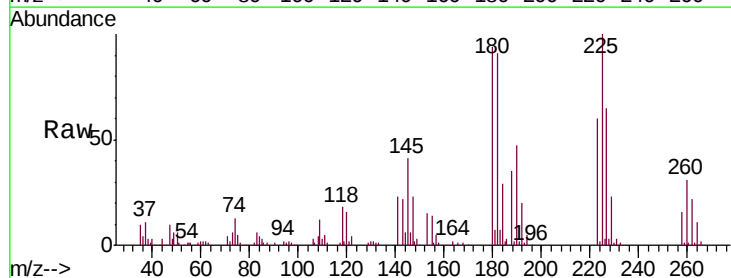


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

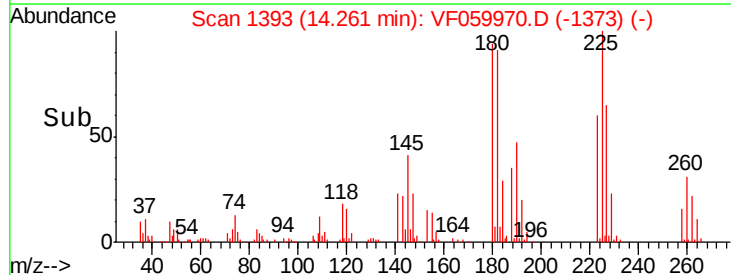
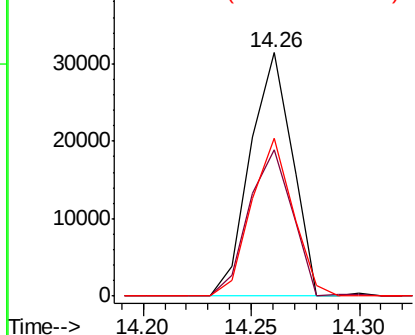


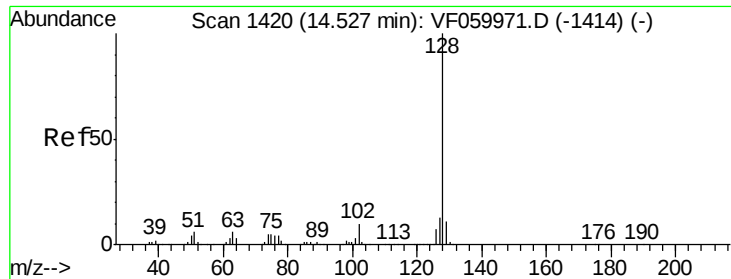
#94
 Hexachlorobutadiene
 Concen: 18.996 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059970.D
 Acq: 16 Aug 2018 20:09

Tgt Ion:225 Resp: 42293
 Ion Ratio Lower Upper
 225 100
 223 59.9 31.0 93.0
 227 65.0 32.4 97.2



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

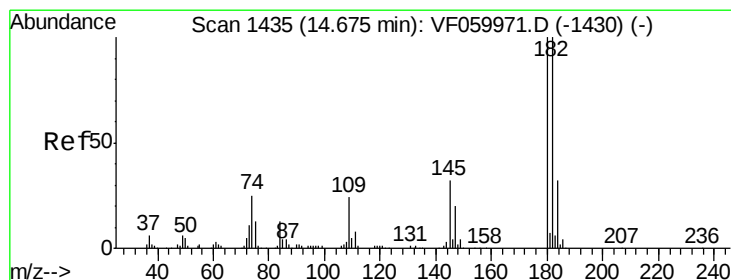
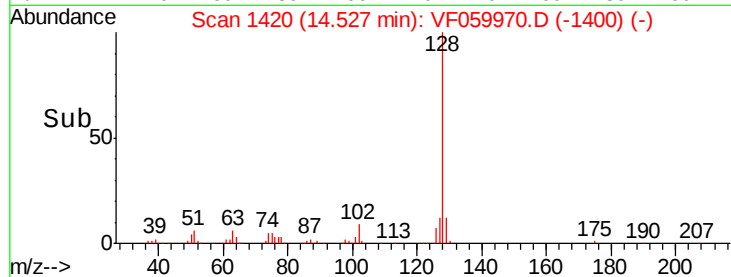
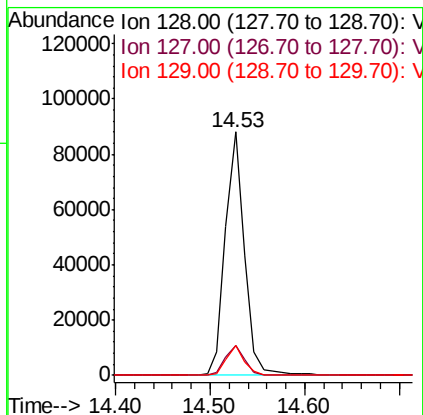
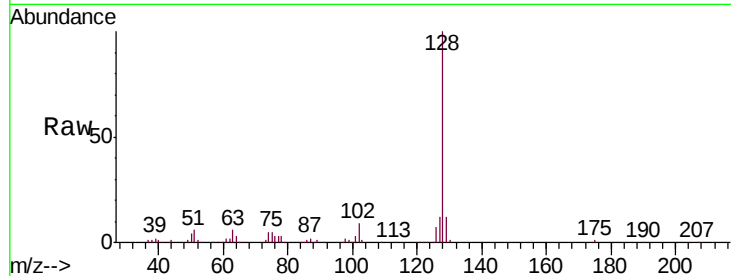




#95
Naphthalene
Concen: 23.221 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.00 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	12.0	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 21.430 ug/l
RT: 14.66 min Scan# 1434
Delta R.T. -0.01 min
Lab File: VF059970.D
Acq: 16 Aug 2018 20:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.5	49.9	149.7
145	36.8	16.2	48.5

