

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110818\
 Data File : VF060664.D
 Acq On : 8 Nov 2018 22:06
 Operator : VA/AP
 Sample : J5813-11RE
 Misc : 6.13g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-KRE

Quant Time: Nov 09 12:35:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	53021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	68839	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	46899	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	13686	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	13025	24.31	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	48.62%	
35) Dibromofluoromethane	4.10	113	23192	43.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.22%	
50) Toluene-d8	7.54	98	90769	57.61	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	115.22%	
62) 4-Bromofluorobenzene	11.41	95	23698	34.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.78%	

Target Compounds

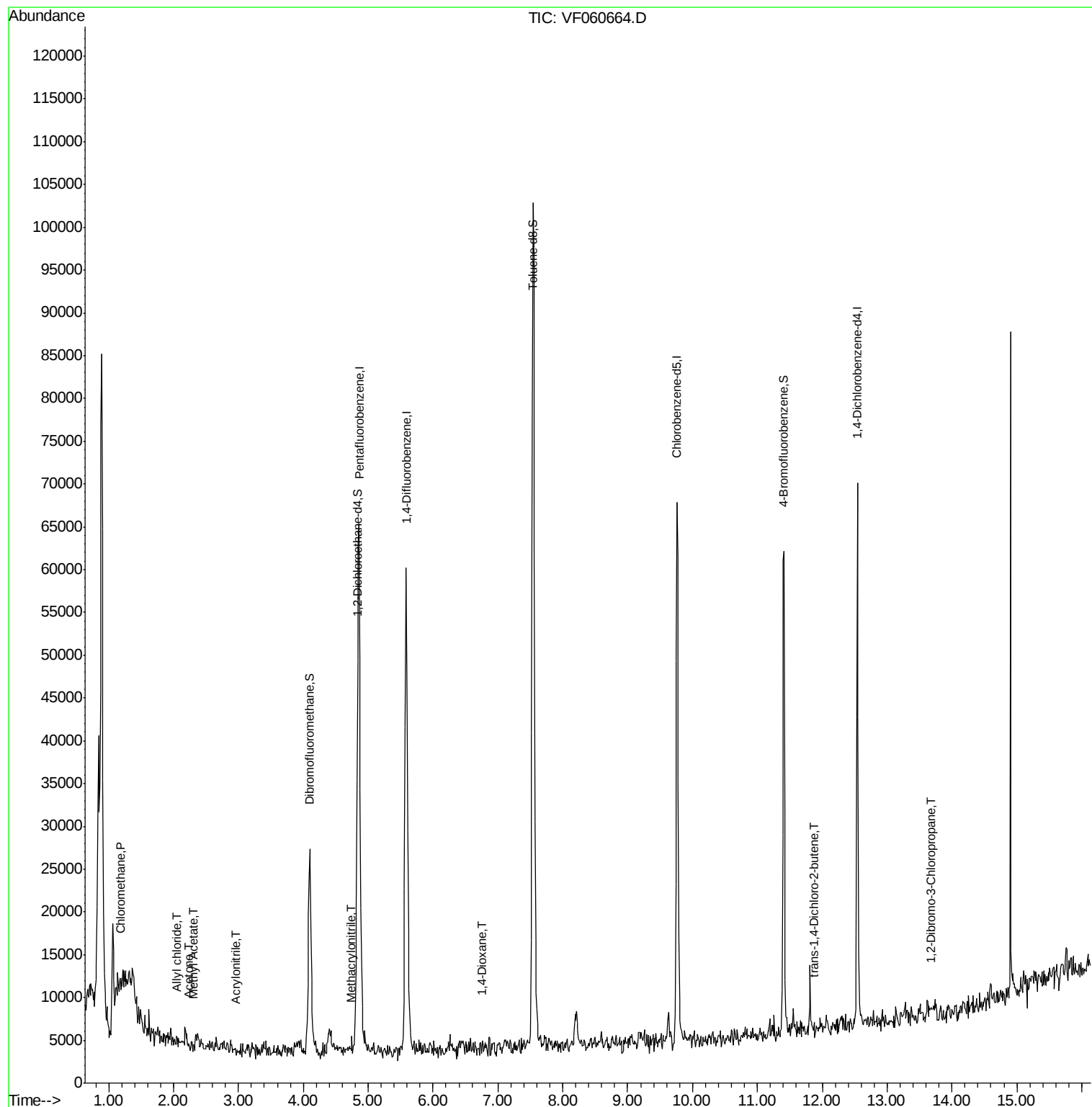
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	170	Below Cal	#	41
3) Chloromethane	1.18	50	688	1.483	ug/l	90
6) Chloroethane	1.42	64	73	Below Cal	#	40
11) Tert butyl alcohol	2.57	59	60	Below Cal	#	1
13) Acrolein	2.02	56	474	Below Cal		93
14) Allyl chloride	2.05	41	683	1.086	ug/l #	57
15) Acrylonitrile	2.94	53	73	1.143	ug/l #	15
16) Acetone	2.23	43	821	6.504	ug/l #	59
18) Methyl Acetate	2.30	43	346	2.227	ug/l #	64
20) Methylene Chloride	2.20	84	871	Below Cal	#	74
25) 2-Butanone	4.33	43	875	Below Cal	#	56
29) Tetrahydrofuran	4.05	42	331	Below Cal	#	50
41) Methacrylonitrile	4.73	41	348	1.689	ug/l #	42
49) 1,4-Dioxane	6.76	88	100	33.048	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.71	63	65	Below Cal		100
59) 2-Hexanone	9.48	43	678	Below Cal	#	26
74) N-amyl acetate	11.38	43	652	Below Cal	#	54
81) trans-1,4-Dichloro-2-buten	11.87	75	82	1.090	ug/l #	23
92) 1,2-Dibromo-3-Chloropropan	13.68	75	60	1.773	ug/l #	1

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

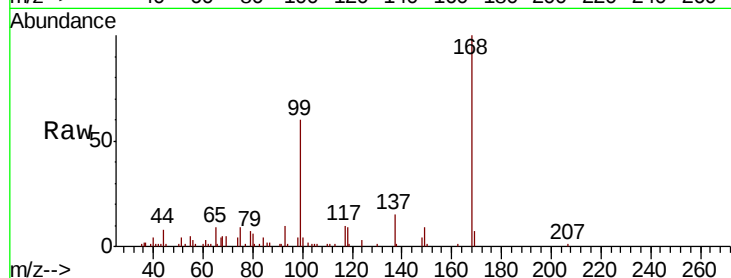
TS-KRE

Tot Ion:168 Resp: 53021

Ion Ratio Lower Upper

168 100

99 60.1 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

20000

15000

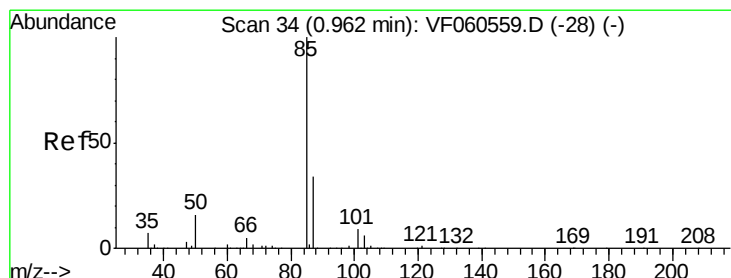
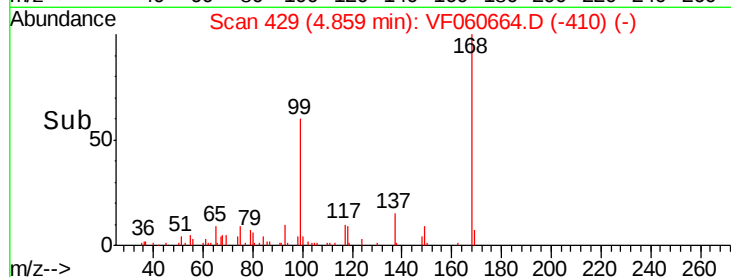
10000

5000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060664.D

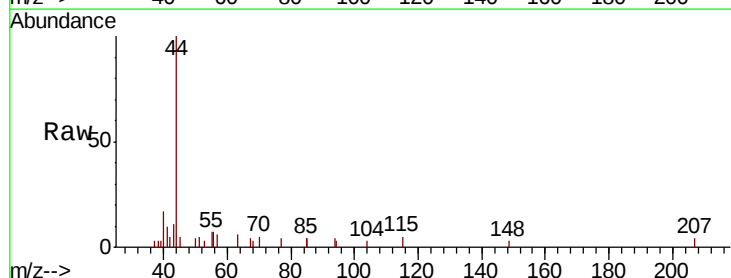
Acq: 8 Nov 2018 22:06

Tgt Ion: 85 Resp: 170

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

300

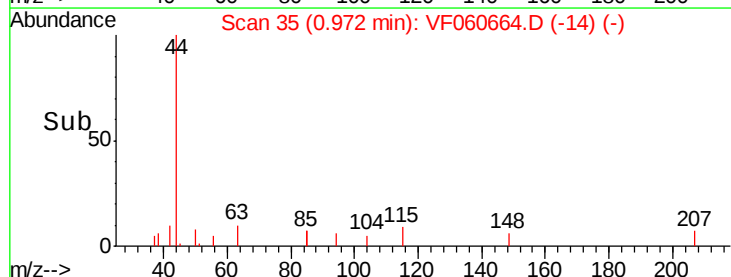
200

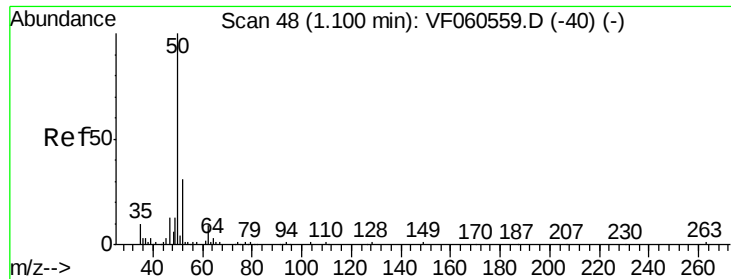
100

0

0.94 0.96 0.98 1.00

Time-->

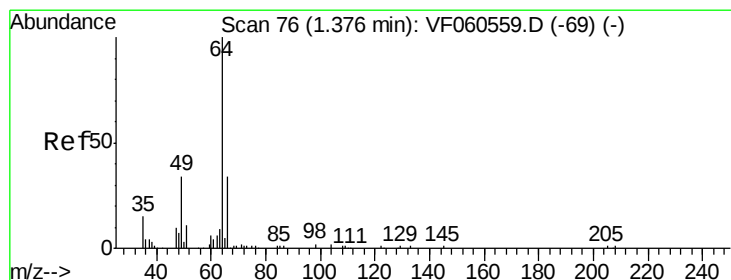
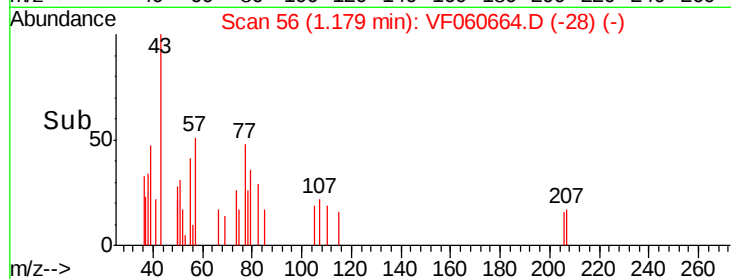
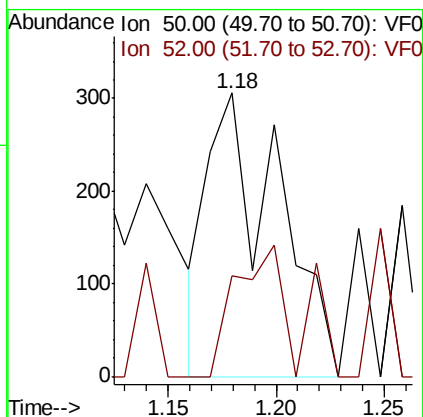
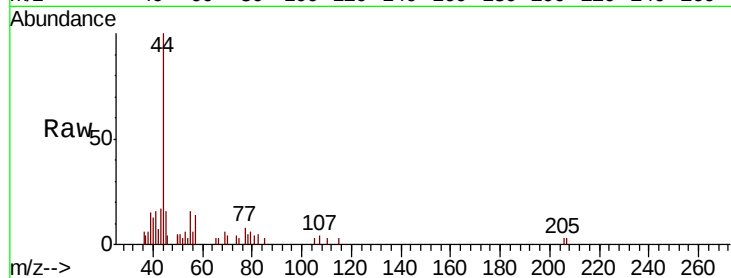




#3
Chloromethane
Concen: 1.483 ug/l
RT: 1.18 min Scan# 56
Delta R.T. 0.08 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

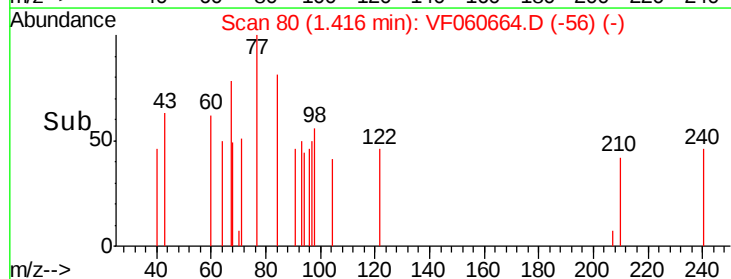
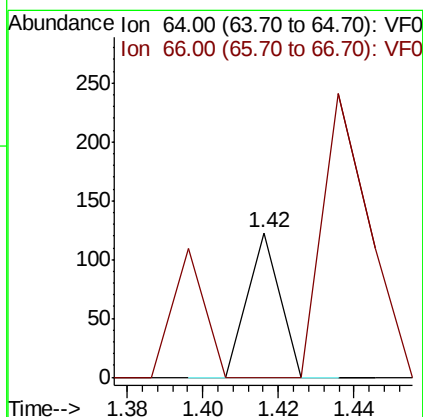
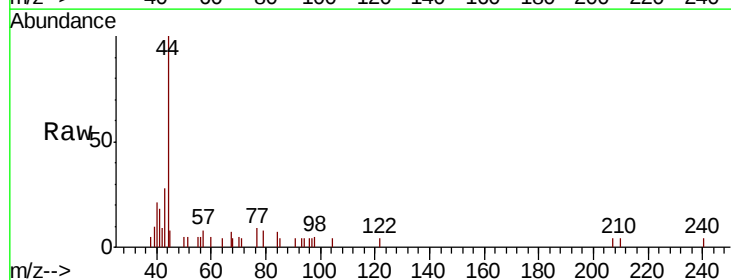
Instrument :
MSVOA_F
ClientSampleId :
TS-KRE

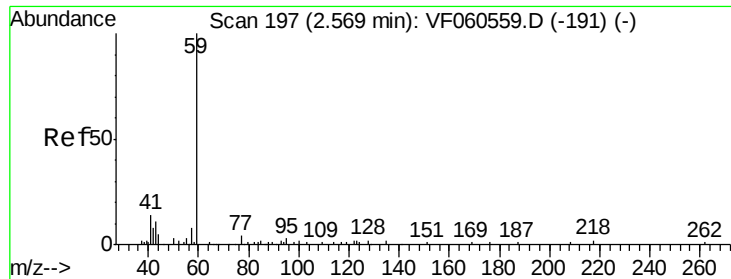
Tot Ion: 50 Resp: 688
Ion Ratio Lower Upper
50 100
52 35.6 24.0 36.0



#6
Chloroethane
Concen: Below Cal
RT: 1.42 min Scan# 80
Delta R.T. 0.04 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Tgt Ion: 64 Resp: 73
Ion Ratio Lower Upper
64 100
66 0.0 27.8 41.8#



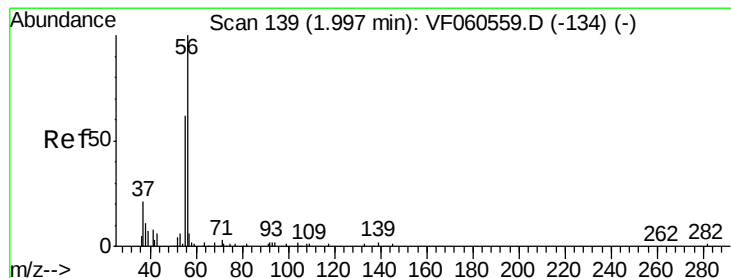
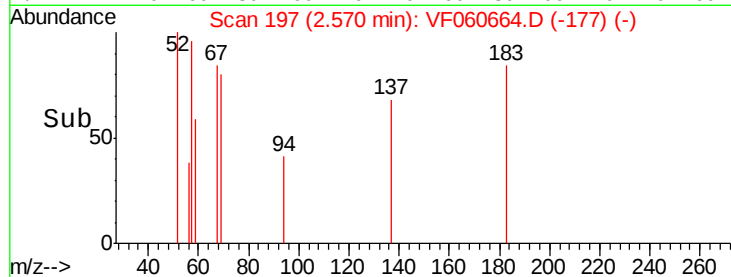
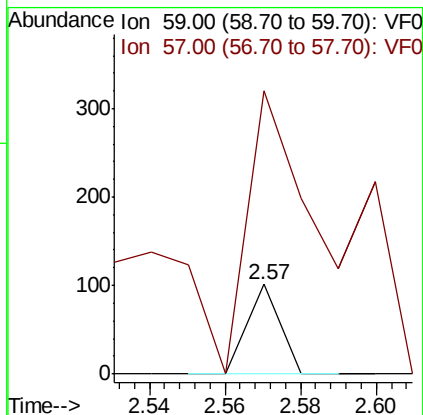
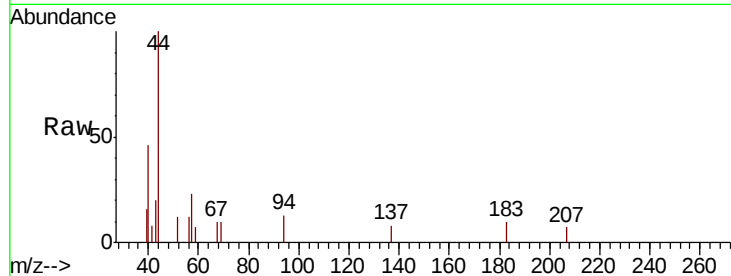


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.57 min Scan# 197
 Delta R.T. 0.00 min
 Lab File: VF060664.D
 Acq: 8 Nov 2018 22:06

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-KRE

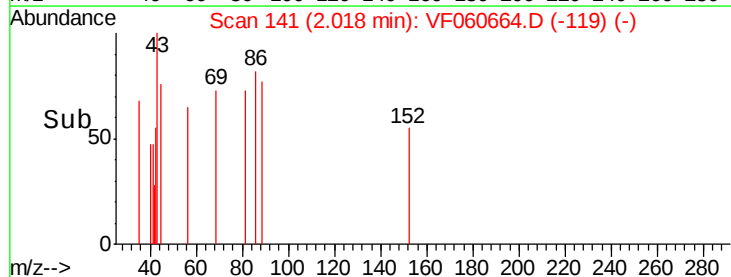
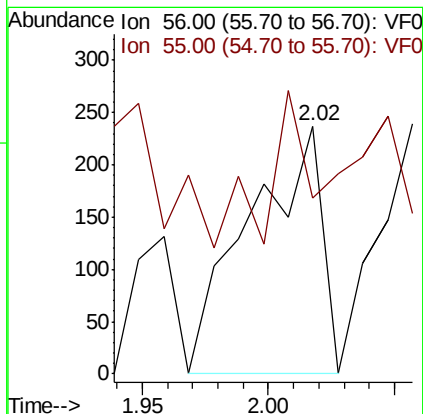
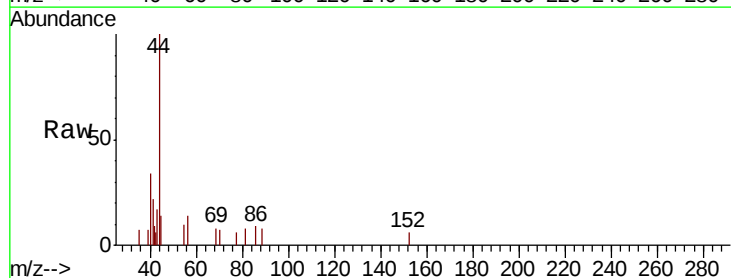
Tot Ion: 59 Resp: 60
 Ion Ratio Lower Upper
 59 100
 57 316.8 19.0 28.4#

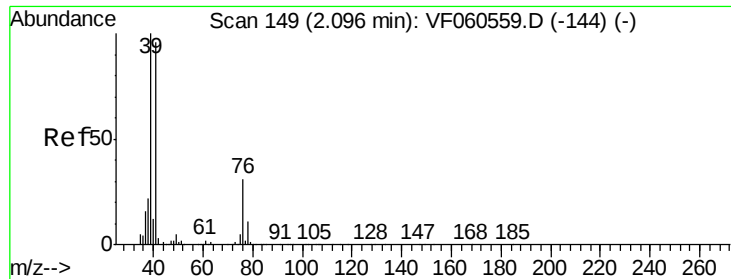


#13

Acrolein
 Concen: Below Cal
 RT: 2.02 min Scan# 141
 Delta R.T. 0.02 min
 Lab File: VF060664.D
 Acq: 8 Nov 2018 22:06

Tgt Ion: 56 Resp: 474
 Ion Ratio Lower Upper
 56 100
 55 70.9 61.8 92.6

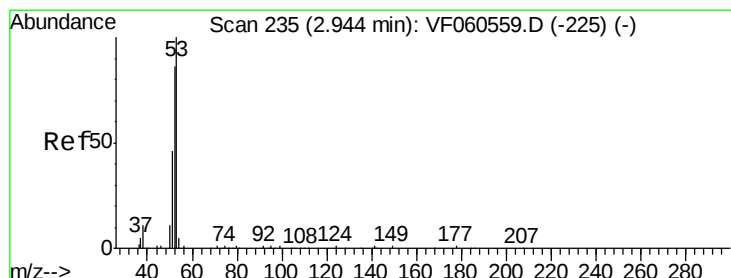
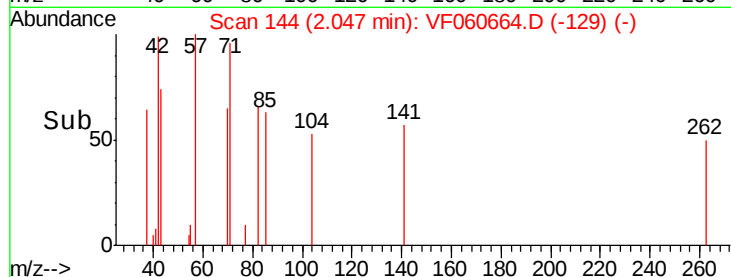
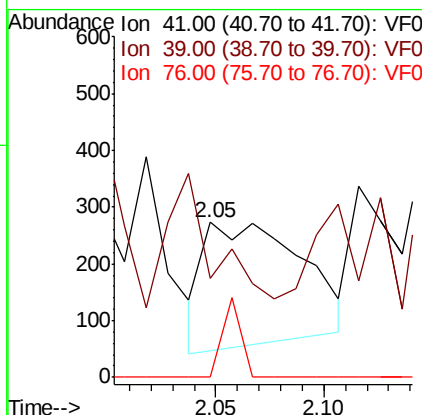
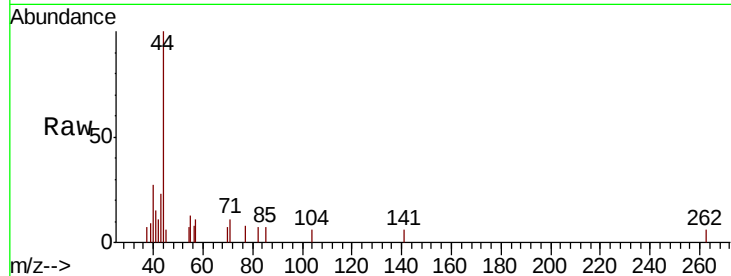




#14
Allvl chloride
Concen: 1.086 ug/l
RT: 2.05 min Scan# 144
Delta R.T. -0.05 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

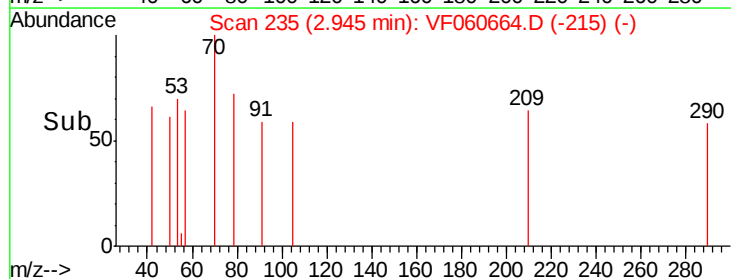
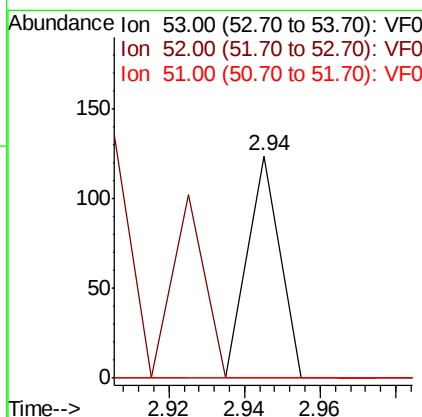
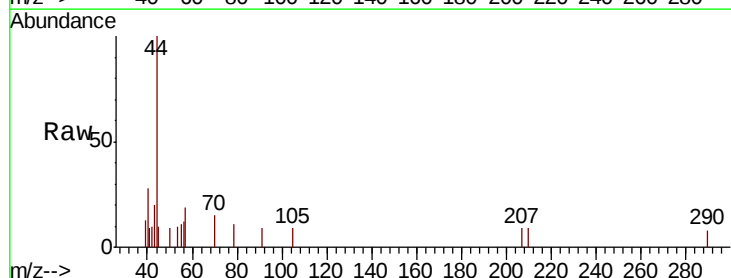
Instrument :
MSVOA_F
ClientSampled :
TS-KRE

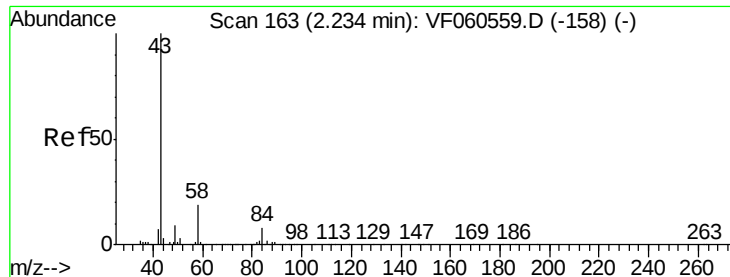
Tot Ion: 41 Resp: 683
Ion Ratio Lower Upper
41 100
39 64.1 82.6 124.0#
76 0.0 26.7 40.1#



#15
Acrylonitrile
Concen: 1.143 ug/l
RT: 2.94 min Scan# 235
Delta R.T. 0.00 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Tgt Ion: 53 Resp: 73
Ion Ratio Lower Upper
53 100
52 0.0 68.5 102.7#
51 0.0 38.2 57.2#





#16

Acetone

Concen: 6.504 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

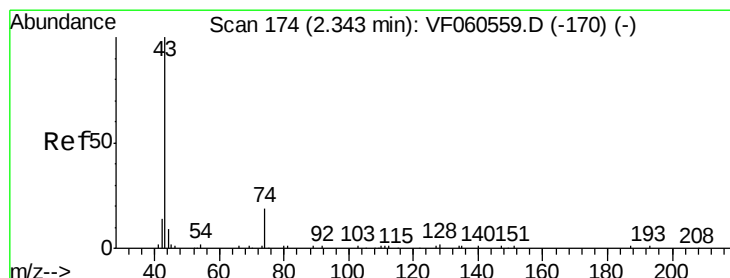
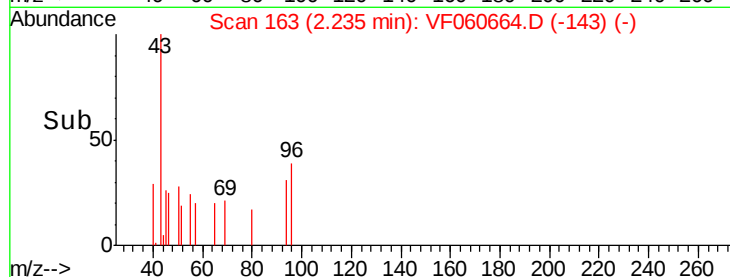
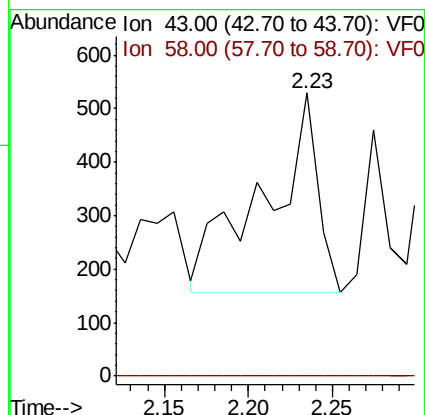
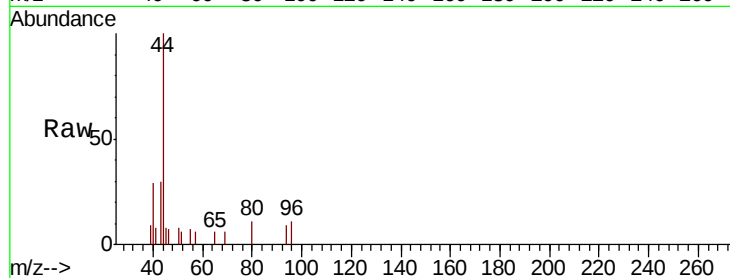
TS-KRE

Tot Ion: 43 Resp: 821

Ion Ratio Lower Upper

43 100

58 0.0 14.6 22.0#



#18

Methyl Acetate

Concen: 2.227 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.04 min

Lab File: VF060664.D

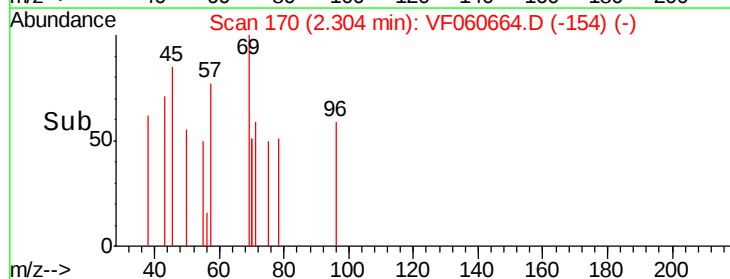
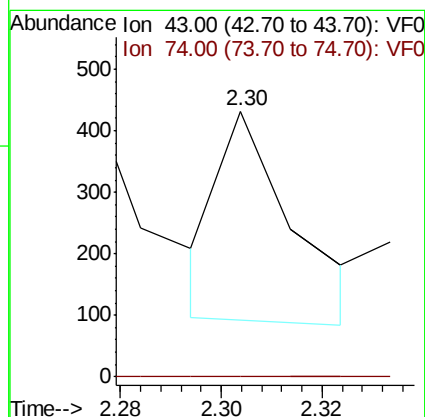
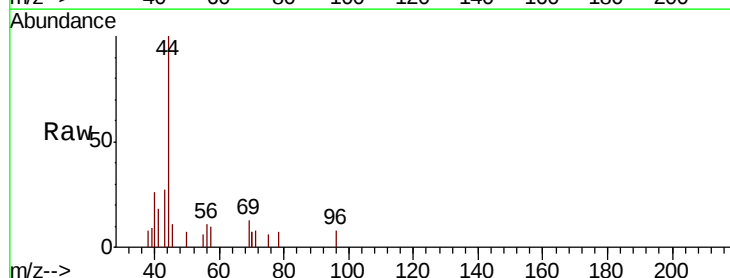
Acq: 8 Nov 2018 22:06

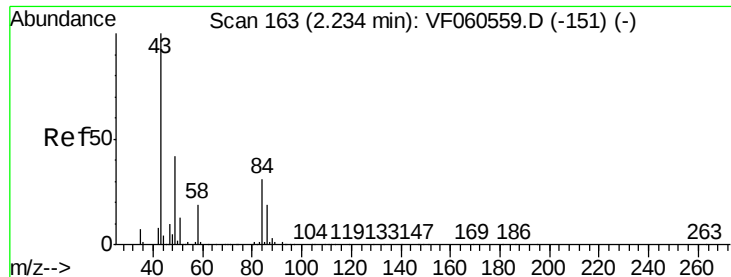
Tgt Ion: 43 Resp: 346

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#

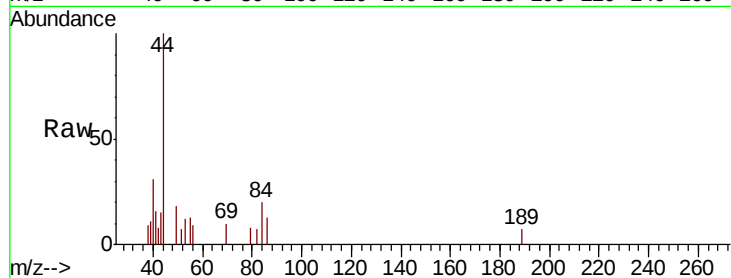




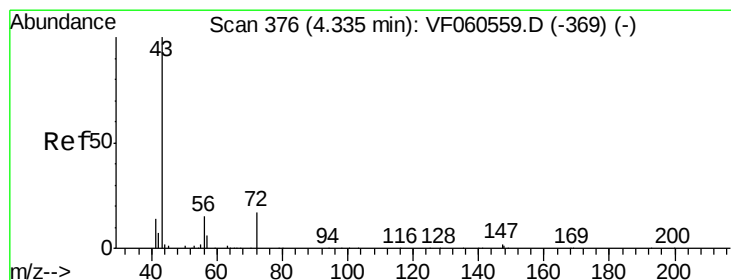
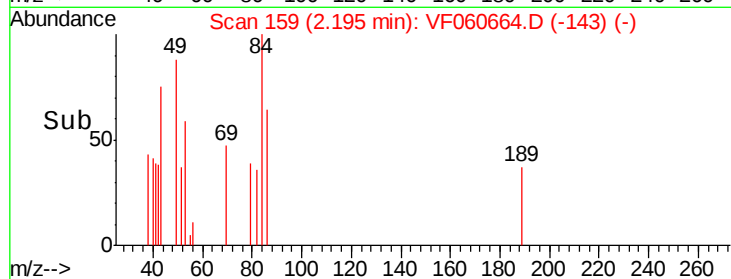
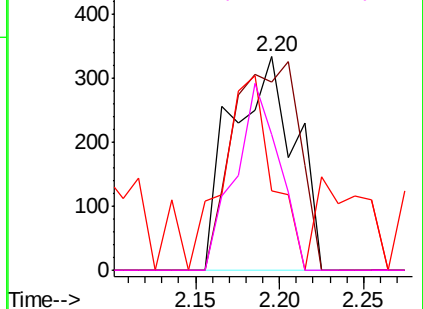
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.20 min Scan# 159
Delta R.T. -0.04 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Instrument :
MSVOA_F
ClientSampleId :
TS-KRE

Tot Ion: 84 Resp: 871
Ion Ratio Lower Upper
84 100
49 88.0 109.9 164.9#
51 37.2 35.8 53.8
86 63.7 48.3 72.5

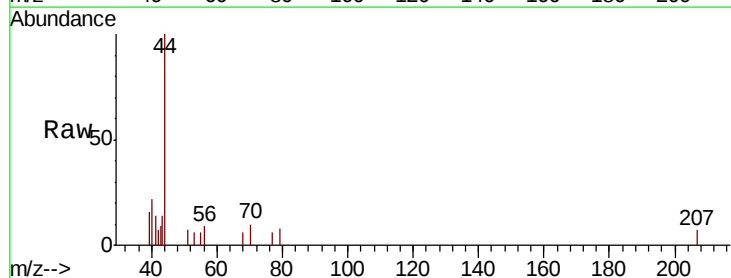


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

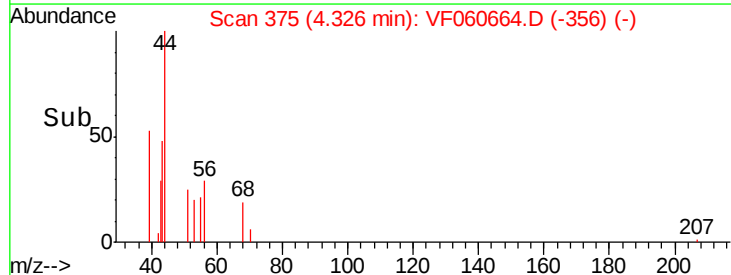
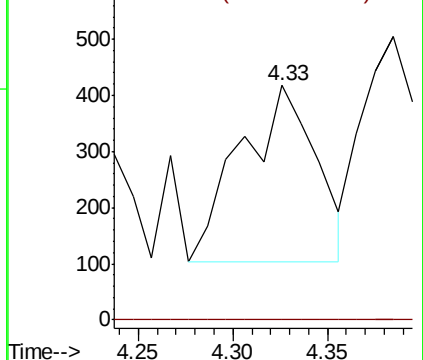


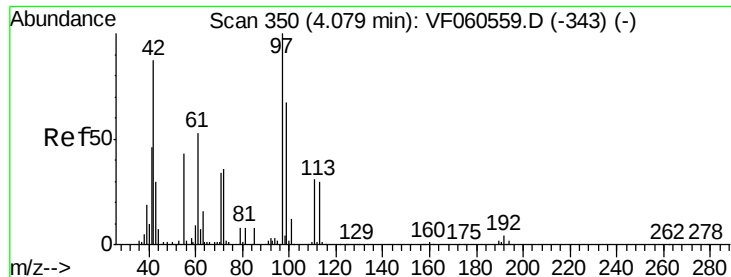
#25
2-Butanone
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. -0.01 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Tgt Ion: 43 Resp: 875
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

TS-KRE

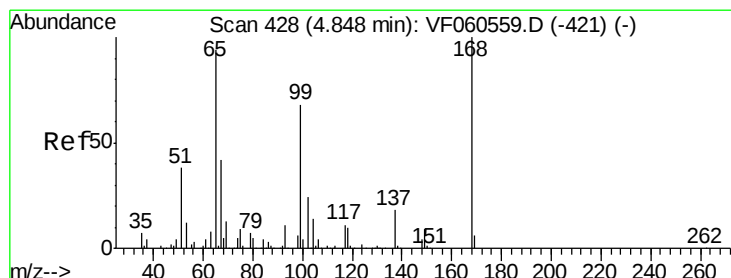
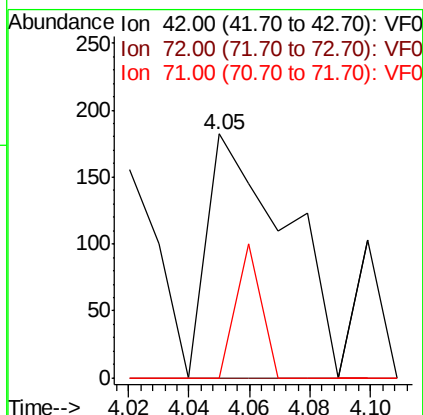
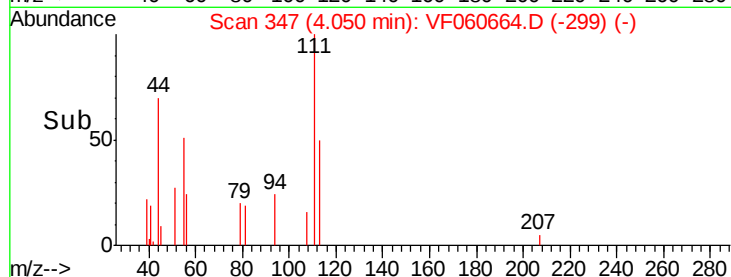
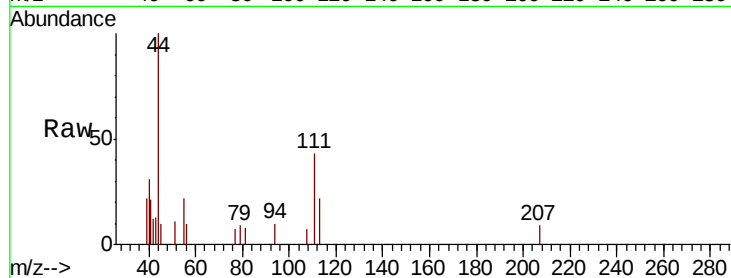
Tot Ion: 42 Resp: 331

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 17.8 31.8 47.6#



#33

1,2-Dichloroethane-d4

Concen: 24.314 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060664.D

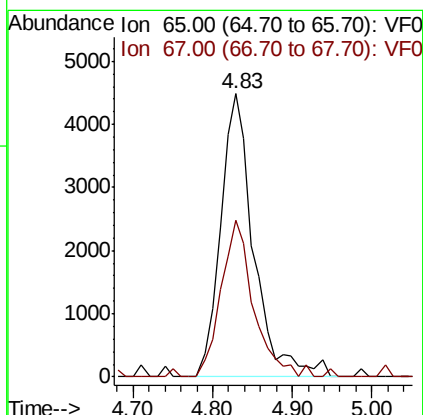
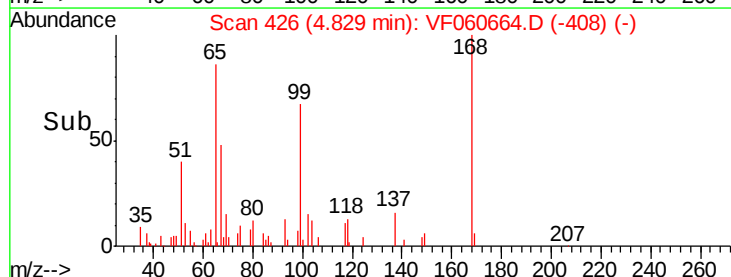
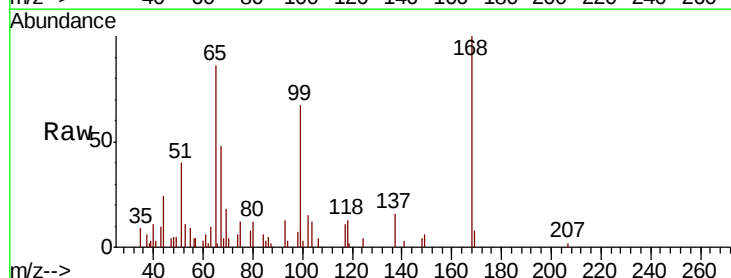
Acq: 8 Nov 2018 22:06

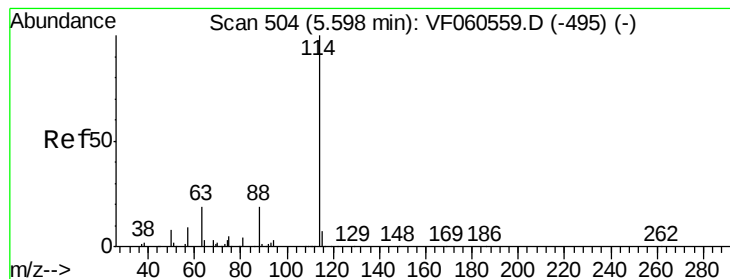
Tgt Ion: 65 Resp: 13025

Ion Ratio Lower Upper

65 100

67 55.3 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

TS-KRE

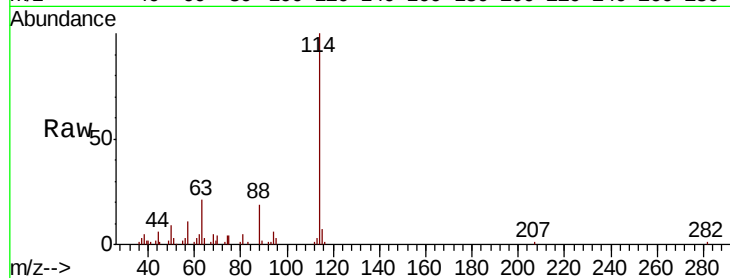
Tot Ion:114 Resp: 68839

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

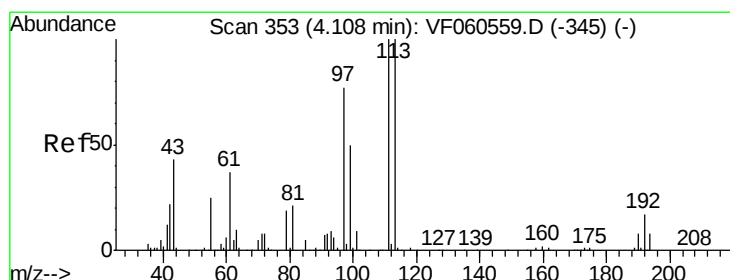
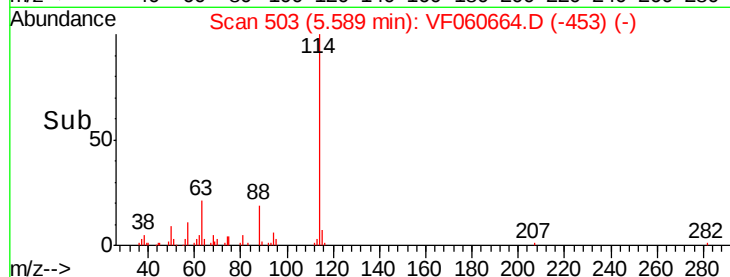
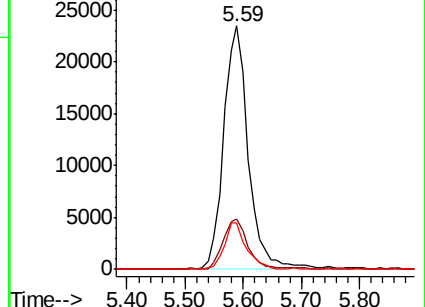
88 19.1 0.0 38.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 43.606 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

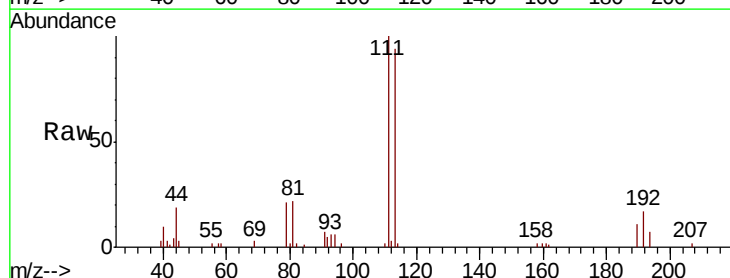
Tgt Ion:113 Resp: 23192

Ion Ratio Lower Upper

113 100

111 106.4 79.9 119.9

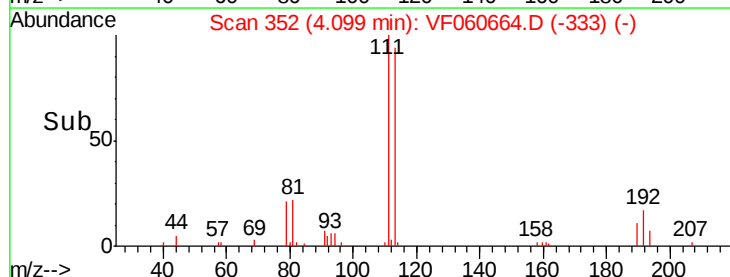
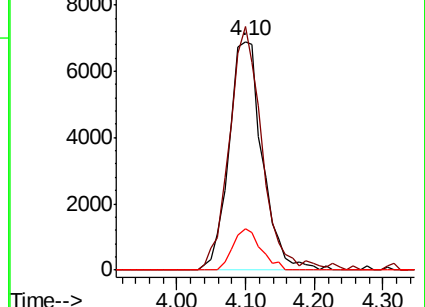
192 17.9 13.3 19.9

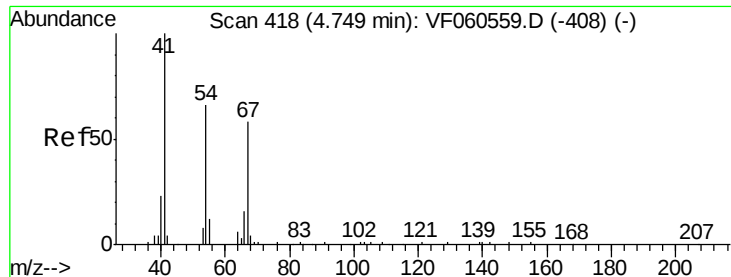


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 1.689 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.02 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampled :

TS-KRE

Tot Ion: 41 Resp: 348

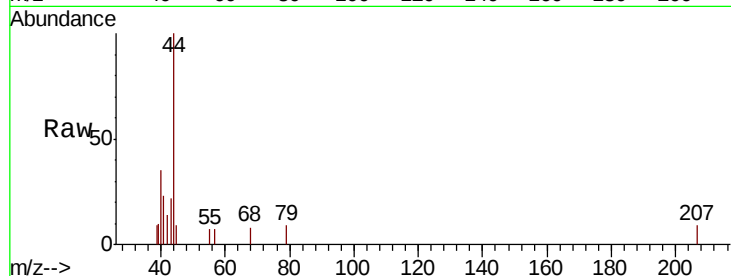
Ion Ratio Lower Upper

41 100

39 83.9 45.6 68.4#

67 0.0 45.3 67.9#

52 0.0 29.6 44.4#

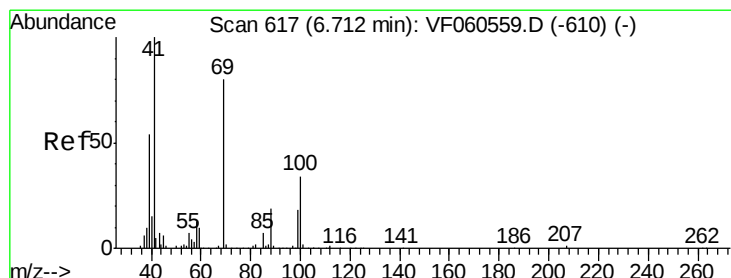
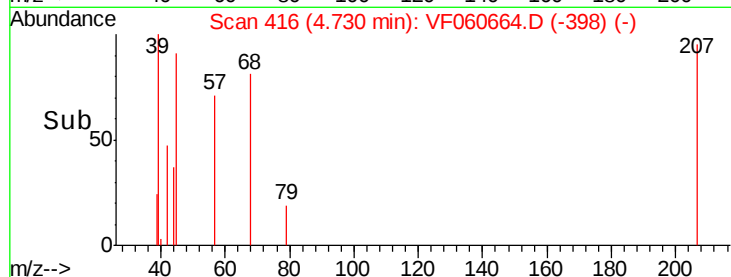
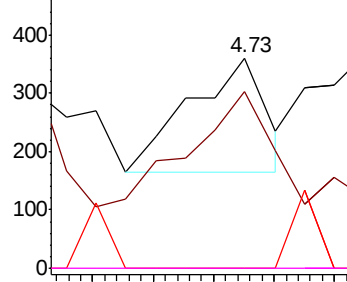


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#49

1,4-Dioxane

Concen: 33.048 ug/l

RT: 6.76 min Scan# 622

Delta R.T. 0.05 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

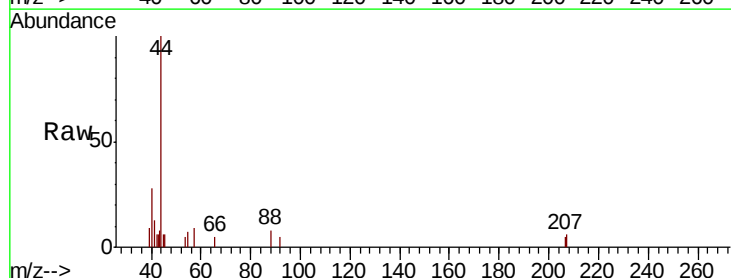
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 176.9 61.2 91.8#

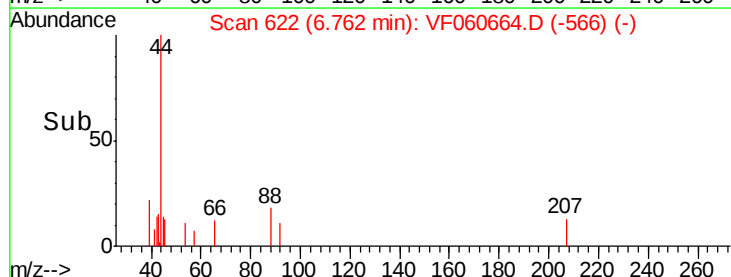
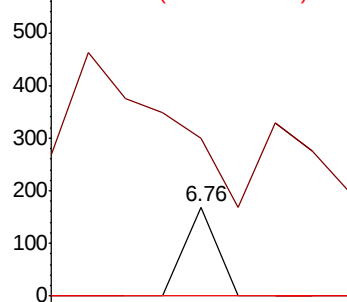
58 0.0 56.9 85.3#

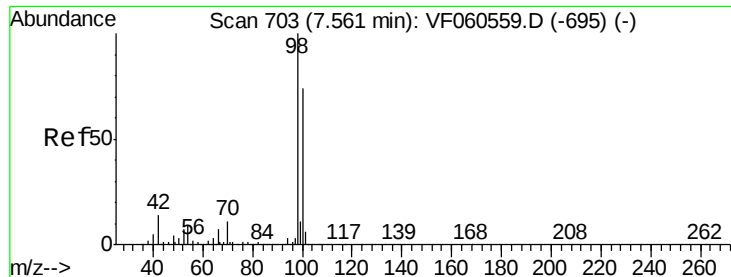


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 57.613 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

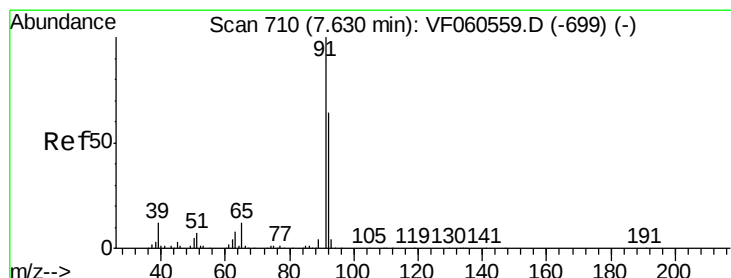
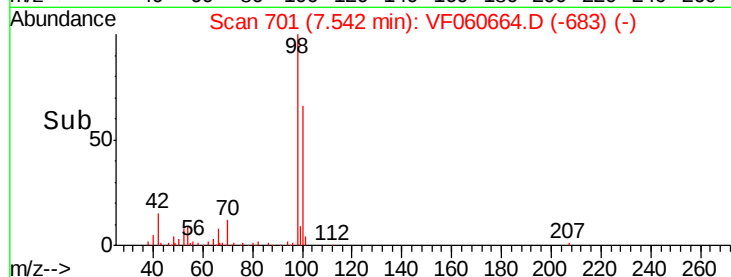
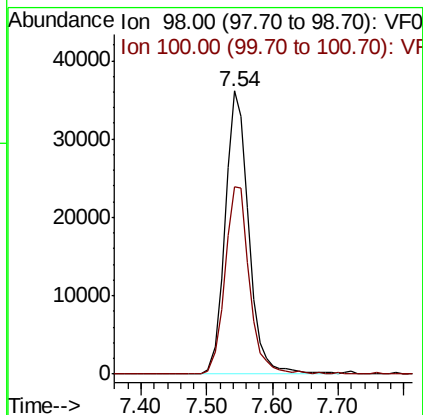
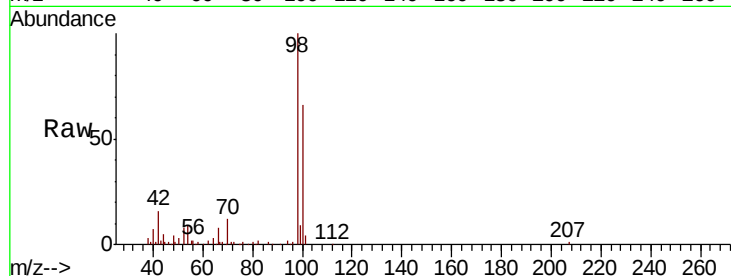
TS-KRE

Tot Ion: 98 Resp: 90769

Ion Ratio Lower Upper

98 100

100 66.4 59.4 89.2



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.71 min Scan# 718

Delta R.T. 0.08 min

Lab File: VF060664.D

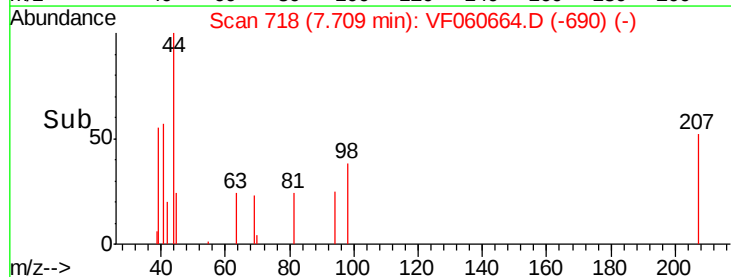
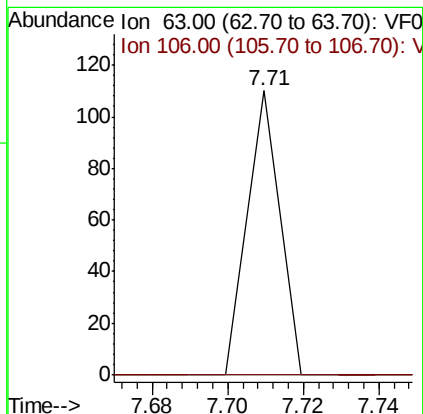
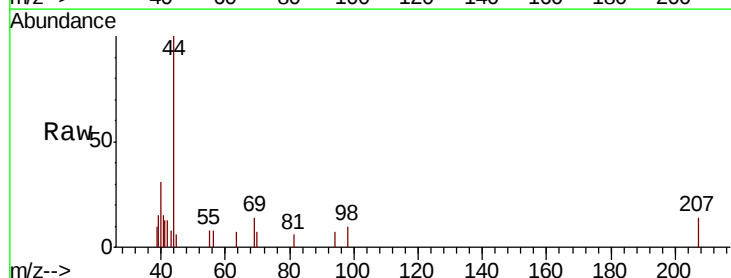
Acq: 8 Nov 2018 22:06

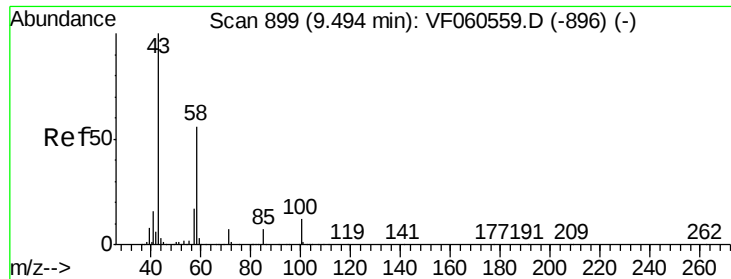
Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

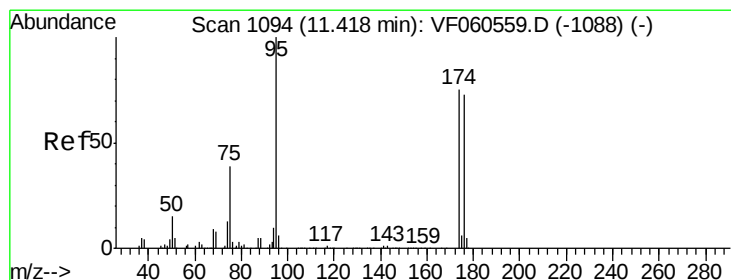
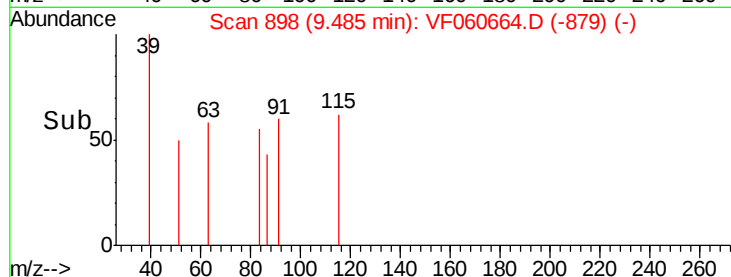
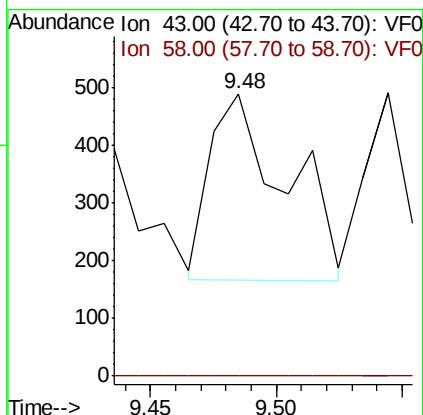
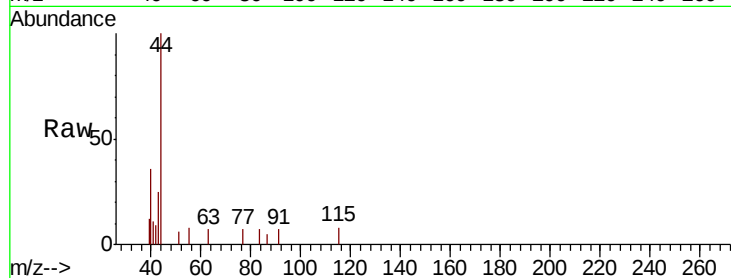




#59
2-Hexanone
Concen: Below Cal
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

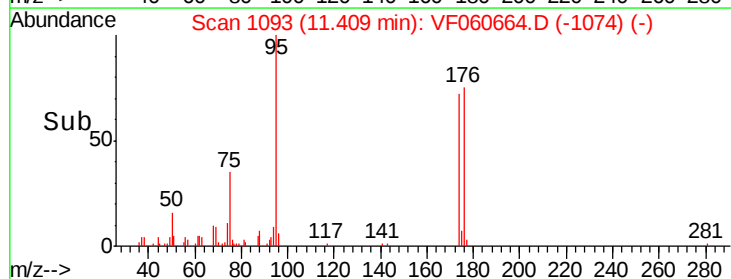
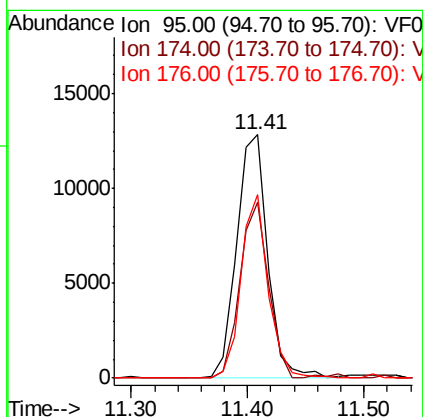
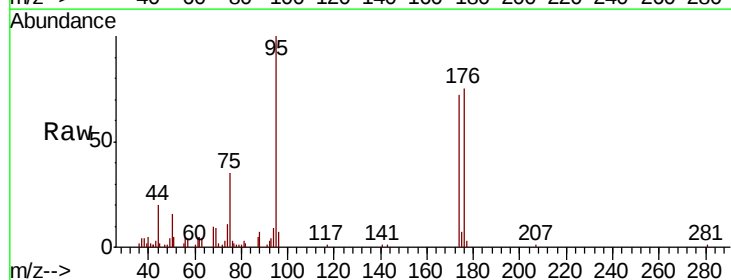
Instrument :
MSVOA_F
ClientSampleId :
TS-KRE

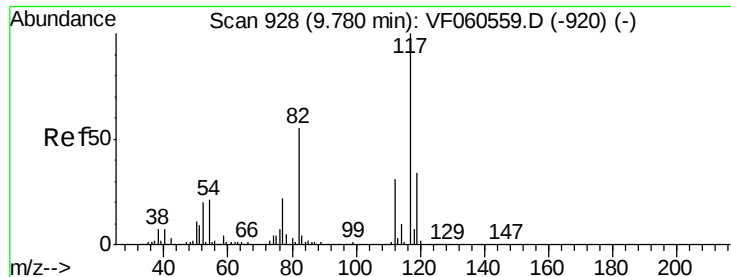
Tot Ion: 43 Resp: 678
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 34.388 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Tgt Ion: 95 Resp: 23698
Ion Ratio Lower Upper
95 100
174 72.1 0.0 149.0
176 75.5 0.0 145.6

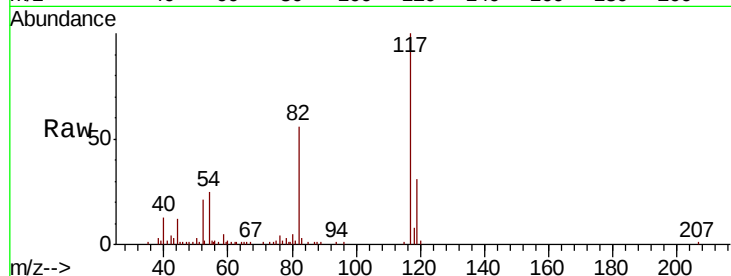




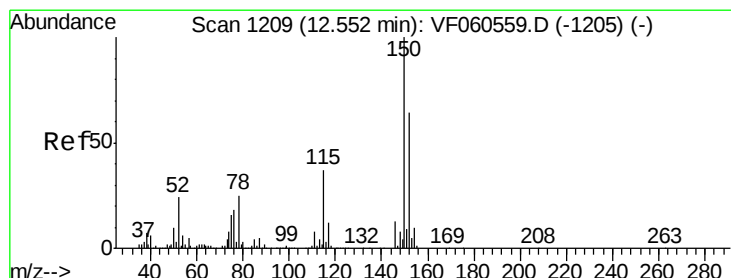
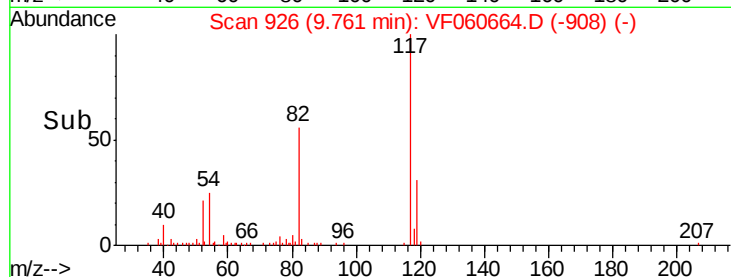
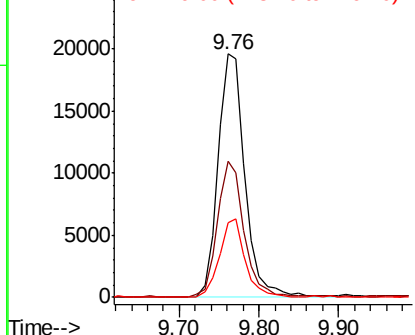
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Instrument :
MSVOA_F
ClientSampleId :
TS-KRE

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	43.9	65.9
119	30.6	27.4	41.0

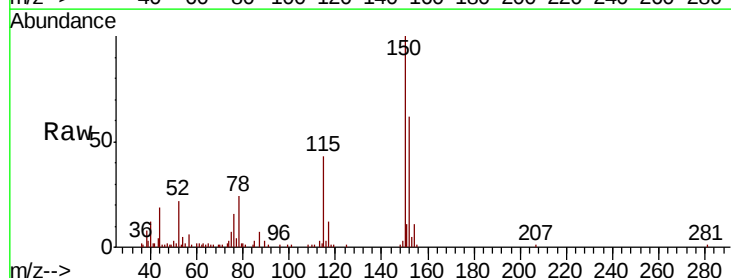


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

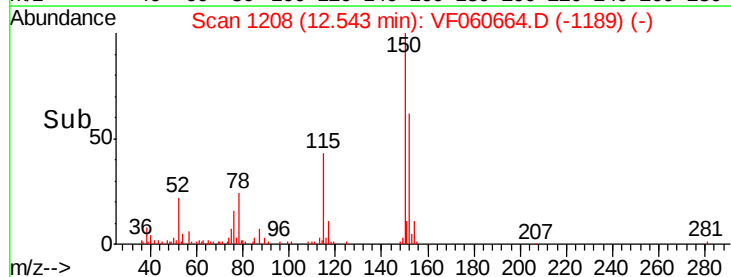
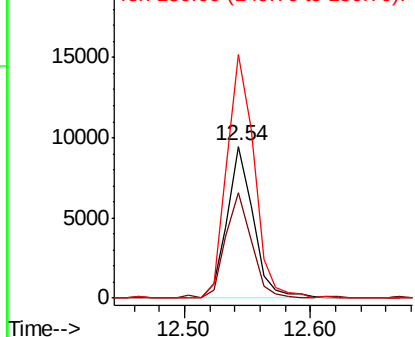


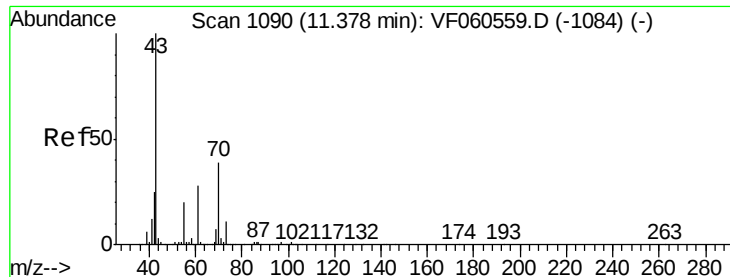
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060664.D
Acq: 8 Nov 2018 22:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.6	29.6	88.8
150	160.6	0.0	315.6



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





#74

N-amvl acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampled :

TS-KRE

Tot Ion: 43 Resp: 652

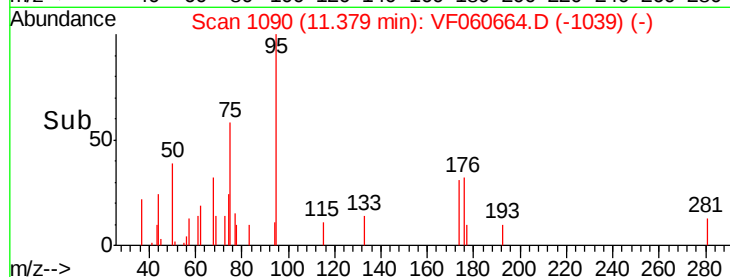
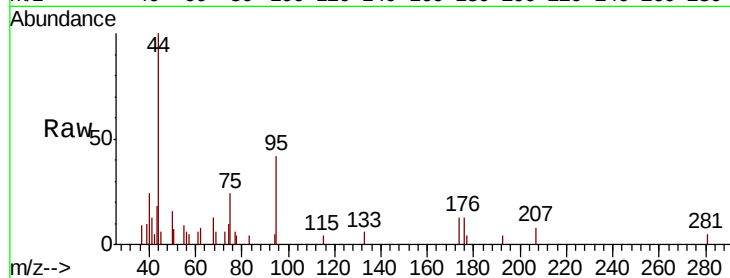
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 48.1 16.6 24.8#

61 33.8 22.0 33.0#

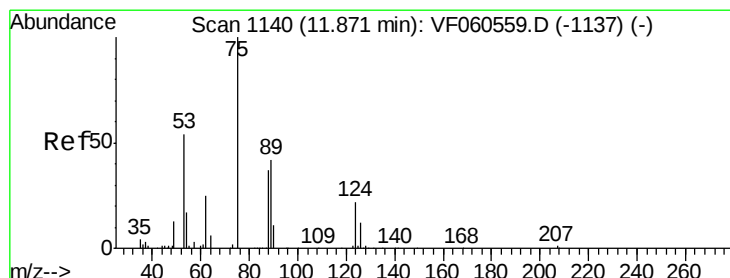
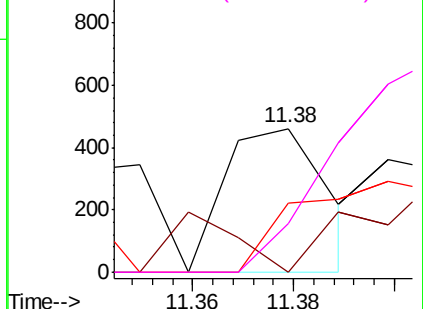


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.090 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

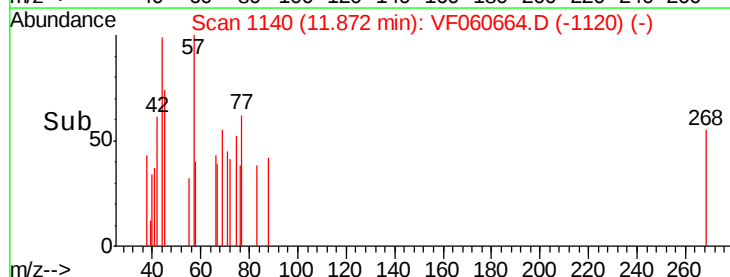
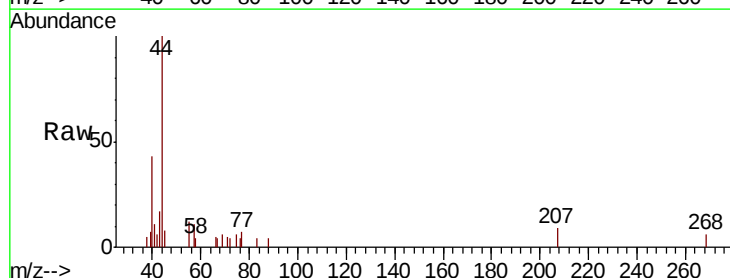
Tgt Ion: 75 Resp: 82

Ion Ratio Lower Upper

75 100

53 0.0 51.6 77.4#

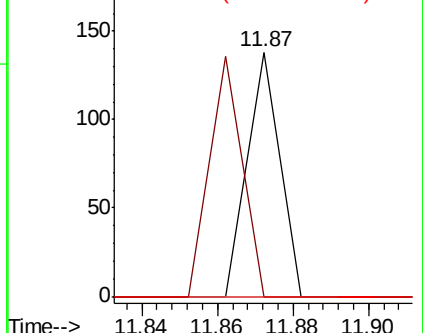
89 0.0 36.7 55.1#

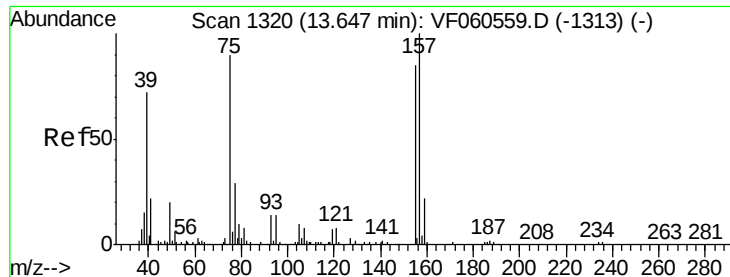


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.773 ug/l

RT: 13.68 min Scan# 1323

Delta R.T. 0.03 min

Lab File: VF060664.D

Acq: 8 Nov 2018 22:06

Instrument :

MSVOA_F

ClientSampleId :

TS-KRE

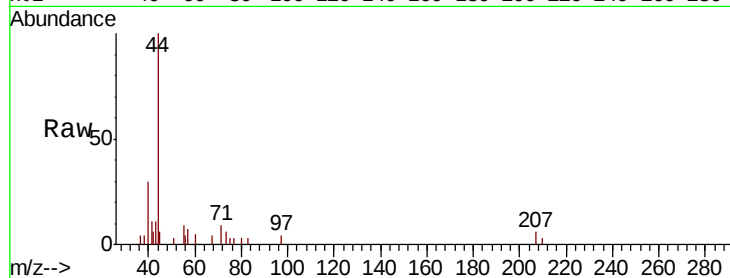
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 47.3 141.8#

157 0.0 55.3 165.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

