

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060299.D
 Acq On : 20 Sep 2018 13:17
 Operator : VA/AP
 Sample : J4983-01RE
 Misc : 5.05/5mL/MSVOA F/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SAMPLE-01

Quant Time: Sep 20 15:45:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	234519	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	396210	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	340394	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	173130	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	130587	41.35	ug/l	0.00
Spiked Amount			Recovery	=	82.70%	
35) Dibromofluoromethane	4.28	113	143759	40.70	ug/l	-0.01
Spiked Amount			Recovery	=	81.40%	
50) Toluene-d8	7.69	98	336632	36.60	ug/l	-0.02
Spiked Amount			Recovery	=	73.20%	
62) 4-Bromofluorobenzene	11.49	95	146324	36.80	ug/l	-0.01
Spiked Amount			Recovery	=	73.60%	

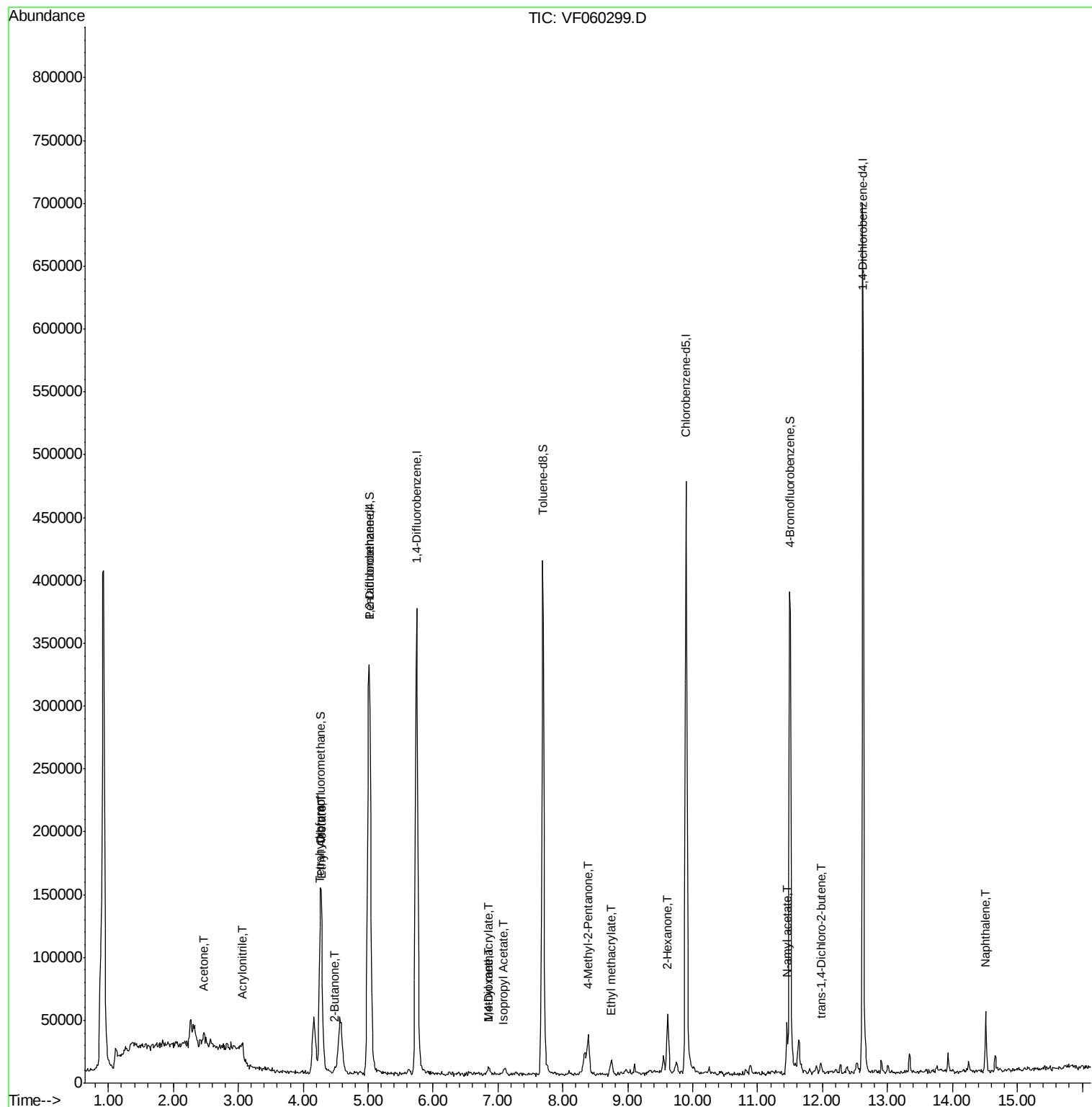
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	658	Below Cal		84
5) Bromomethane	1.39	94	685	Below Cal		91
11) Tert butyl alcohol	2.67	59	1815	Below Cal	#	1
13) Acrolein	1.98	56	790	Below Cal		94
15) Acrylonitrile	3.05	53	1550	3.475	ug/l #	61
16) Acetone	2.45	43	1423	1.600	ug/l	92
17) Carbon Disulfide	1.90	76	179	Below Cal	#	1
20) Methylene Chloride	2.26	84	9515	Below Cal	#	83
25) 2-Butanone	4.49	43	6155	5.142	ug/l	93
29) Tetrahydrofuran	4.25	42	1669	3.807	ug/l #	82
37) Ethyl Acetate	4.30	43	2782	1.330	ug/l #	1
43) Isopropyl Acetate	7.09	43	8616	3.422	ug/l #	85
48) Methyl methacrylate	6.86	41	3306	1.871	ug/l	94
49) 1,4-Dioxane	6.85	88	431	27.299	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	31100	16.028	ug/l #	86
56) Ethyl methacrylate	8.74	69	7970	3.067	ug/l #	80
59) 2-Hexanone	9.62	43	43810	31.711	ug/l	96
74) N-amyl acetate	11.45	43	27639	8.339	ug/l	92
78) n-propylbenzene	11.67	91	4472	Below Cal		93
81) trans-1,4-Dichloro-2-buten	11.97	75	1150	1.103	ug/l #	46
85) sec-Butylbenzene	12.38	105	3599	Below Cal		90
86) p-Isopropyltoluene	12.53	119	3250	Below Cal		87
89) n-Butylbenzene	12.90	91	5070	Below Cal		68
95) Naphthalene	14.51	128	31653	4.160	ug/l #	93

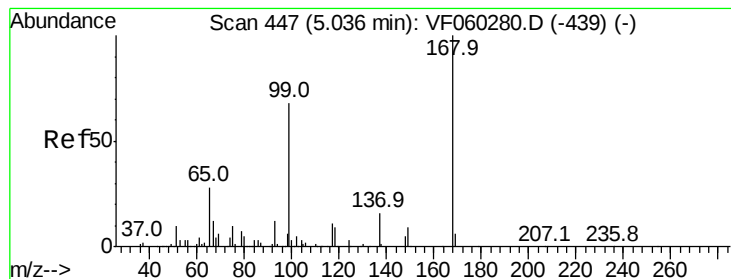
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.02 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

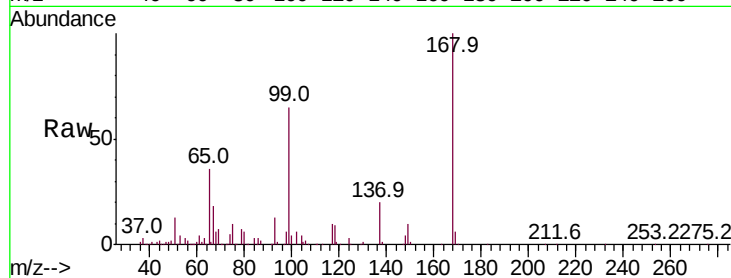
SAMPLE-01

Tot Ion:168 Resp: 234519

Ion Ratio Lower Upper

168 100

99 65.4 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

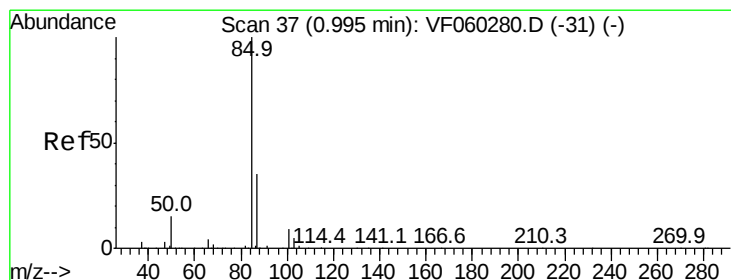
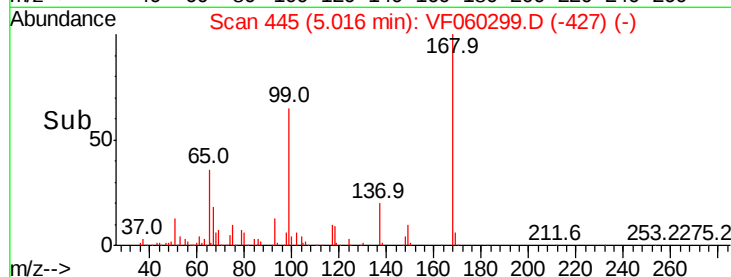
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060299.D

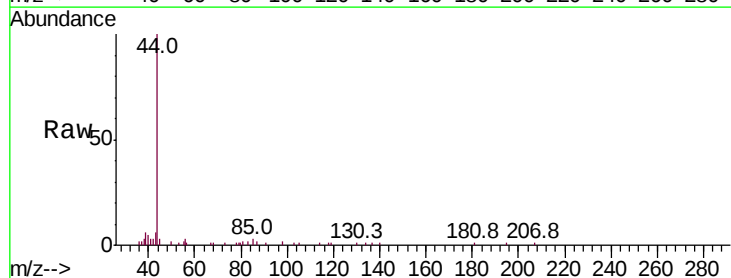
Acq: 20 Sep 2018 13:17

Tgt Ion: 85 Resp: 658

Ion Ratio Lower Upper

85 100

87 43.9 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

500

400

300

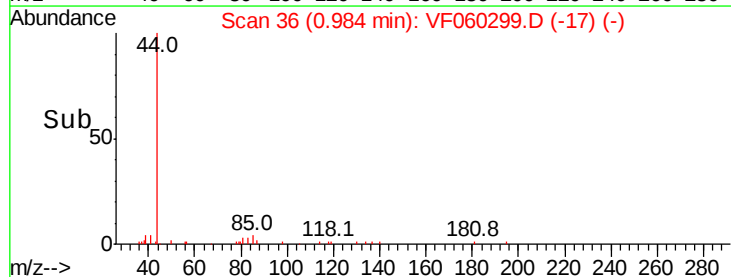
200

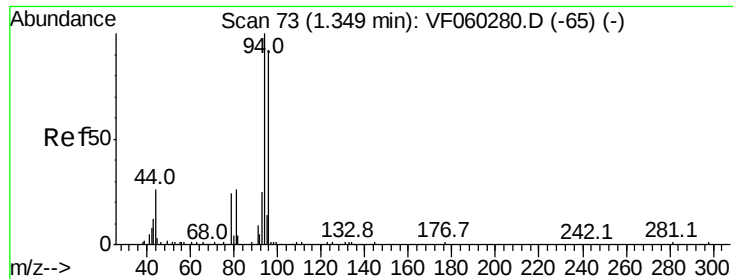
100

0

Time-->

0.96 0.98 1.00 1.02





#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.04 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

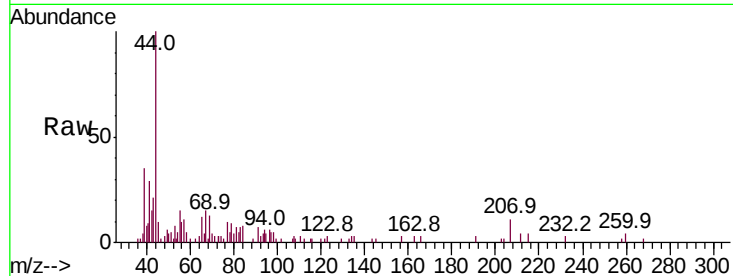
SAMPLE-01

Tot Ion: 94 Resp: 685

Ion Ratio Lower Upper

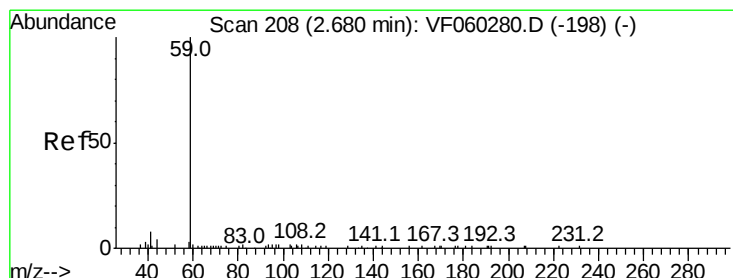
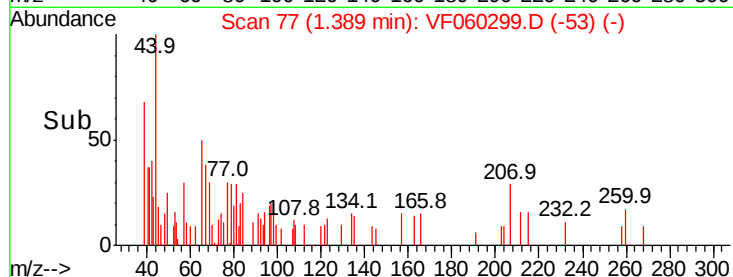
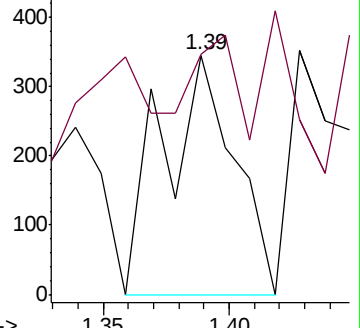
94 100

96 100.6 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.67 min Scan# 207

Delta R.T. -0.01 min

Lab File: VF060299.D

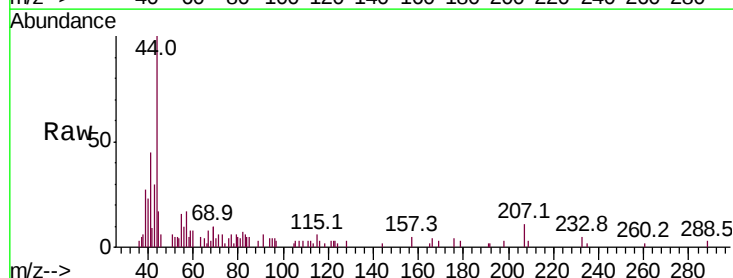
Acq: 20 Sep 2018 13:17

Tgt Ion: 59 Resp: 1815

Ion Ratio Lower Upper

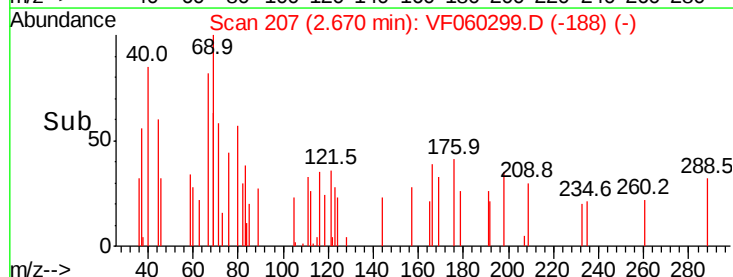
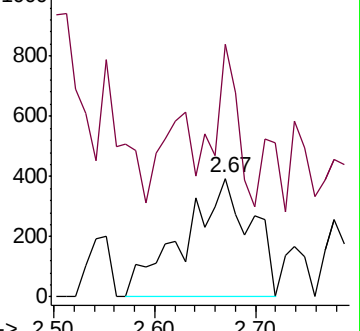
59 100

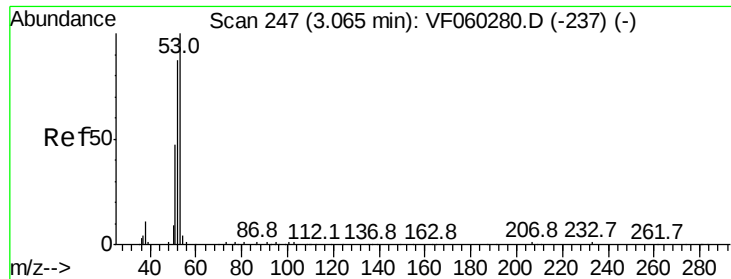
57 212.4 12.4 18.6#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#15

Acrylonitrile

Concen: 3.475 ug/l

RT: 3.05 min Scan# 246

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

SAMPLE-01

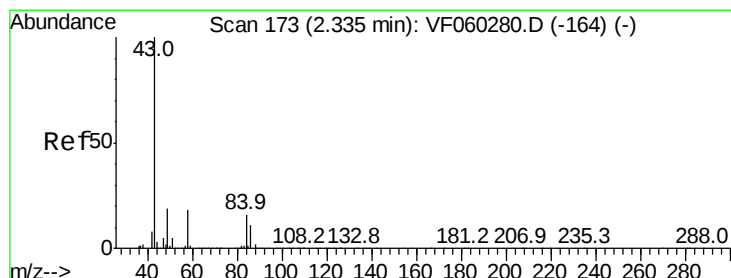
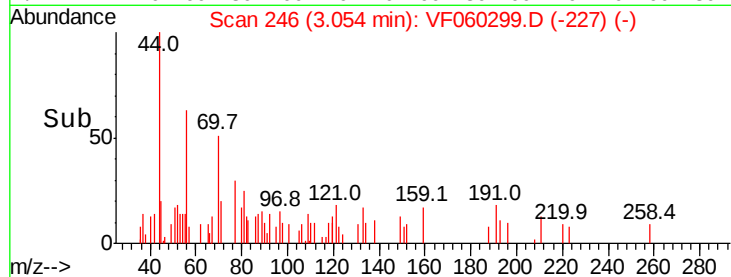
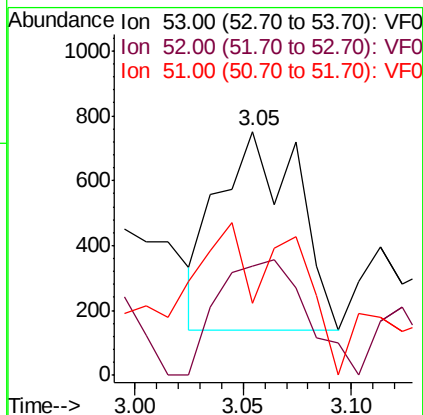
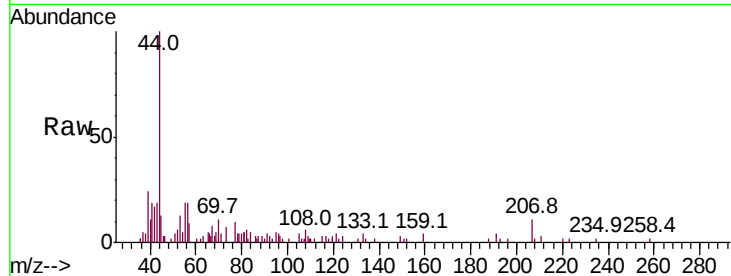
Tot Ion: 53 Resp: 1550

Ion Ratio Lower Upper

53 100

52 44.7 69.5 104.3#

51 29.4 38.1 57.1#



#16

Acetone

Concen: 1.600 ug/l

RT: 2.45 min Scan# 185

Delta R.T. 0.12 min

Lab File: VF060299.D

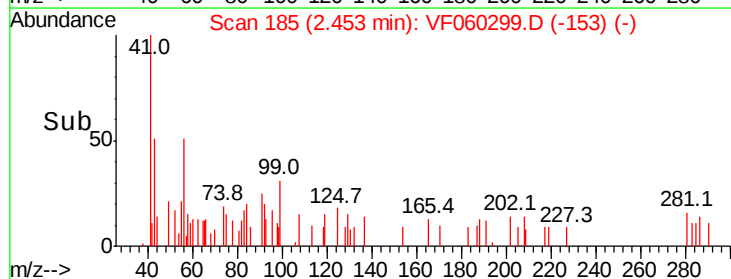
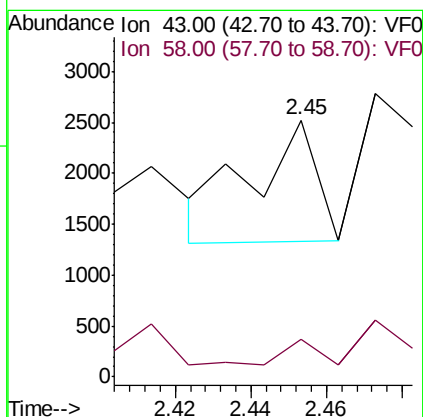
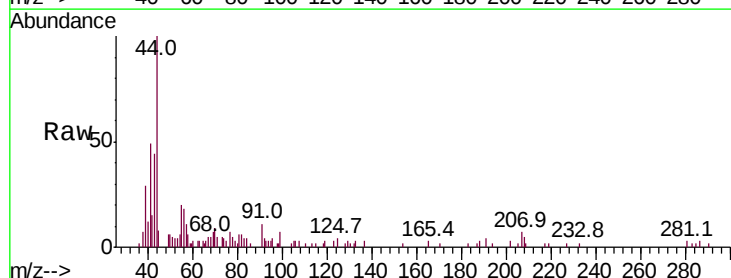
Acq: 20 Sep 2018 13:17

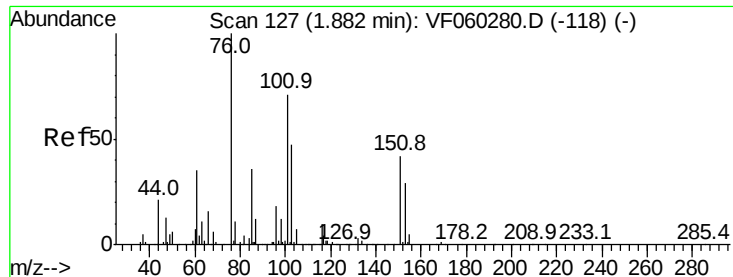
Tgt Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

58 14.7 14.5 21.7

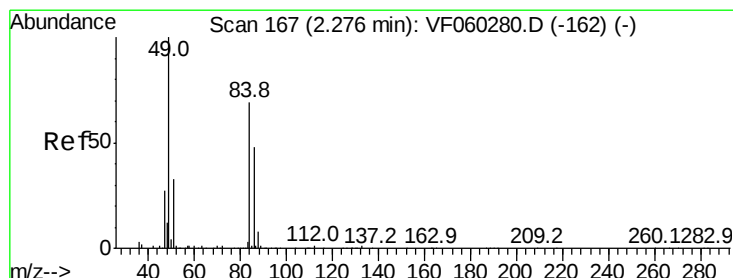
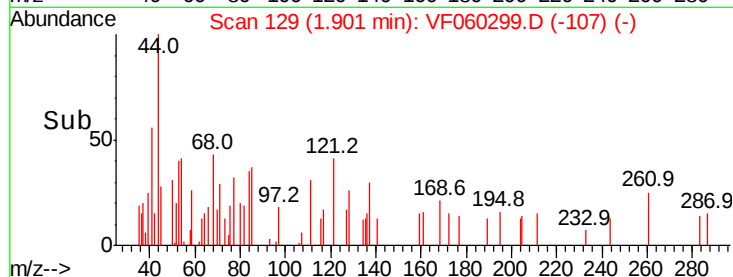
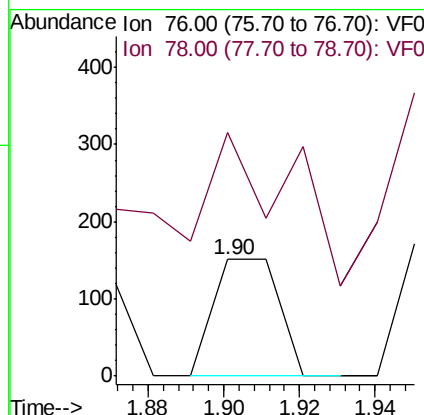
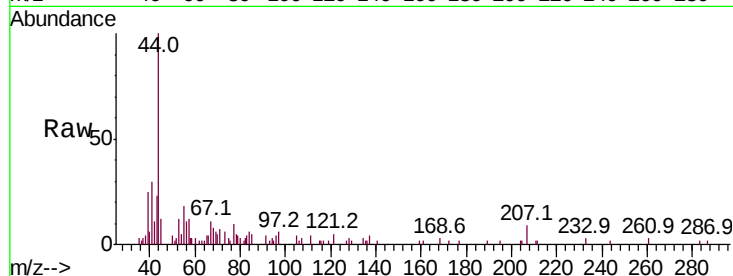




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.90 min Scan# 129
Delta R.T. 0.02 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

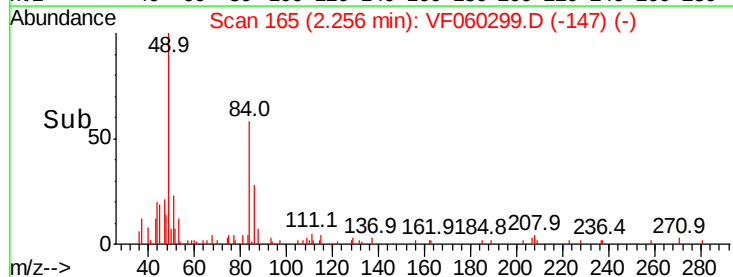
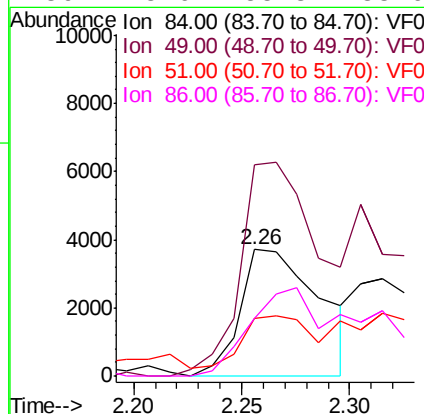
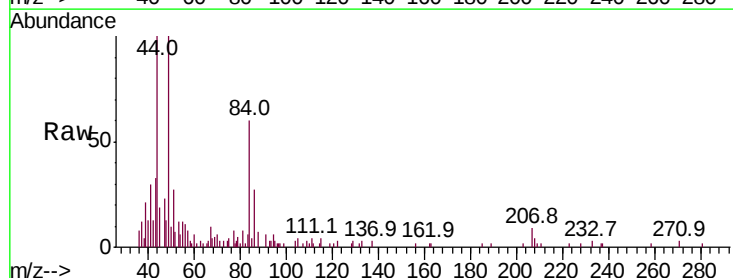
Instrument :
MSVOA_F
ClientSampled :
SAMPLE-01

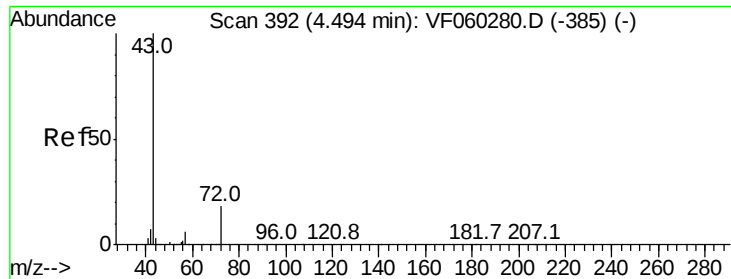
Tot Ion: 76 Resp: 179
Ion Ratio Lower Upper
76 100
78 208.6 9.4 14.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 165
Delta R.T. -0.02 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

Tgt Ion: 84 Resp: 9515
Ion Ratio Lower Upper
84 100
49 167.2 118.3 177.5
51 45.1 38.7 58.1
86 45.6 55.8 83.6#





#25

2-Butanone

Concen: 5.142 ug/l

RT: 4.49 min Scan# 392

Delta R.T. -0.00 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

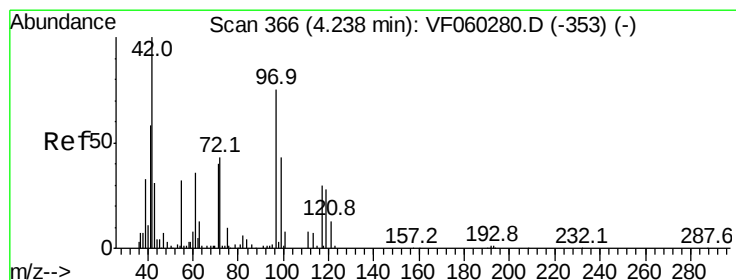
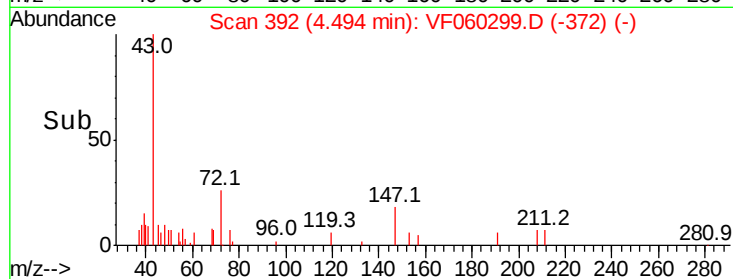
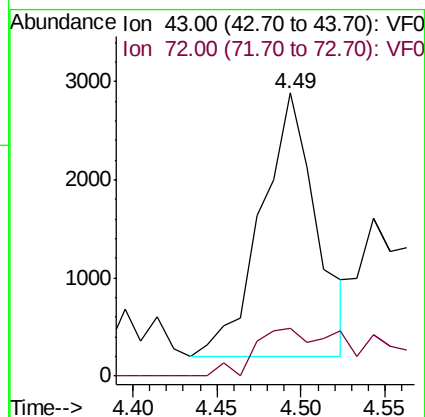
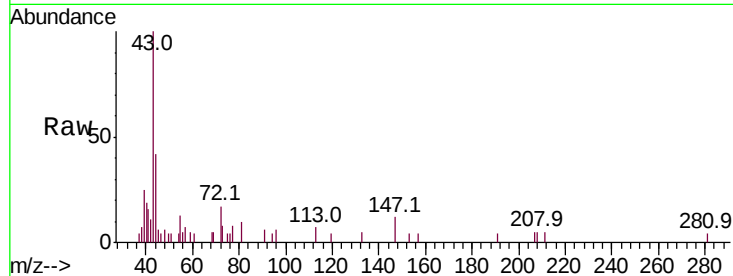
SAMPLE-01

Tot Ion: 43 Resp: 6155

Ion Ratio Lower Upper

43 100

72 16.9 16.2 24.2



#29

Tetrahydrofuran

Concen: 3.807 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

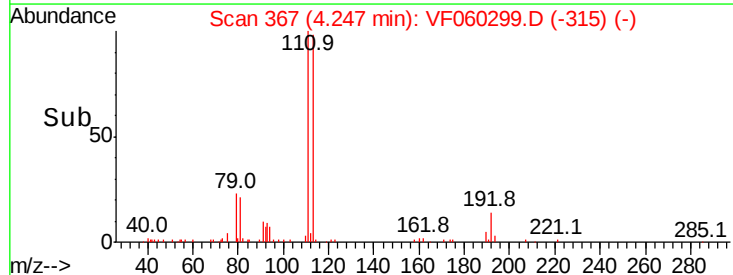
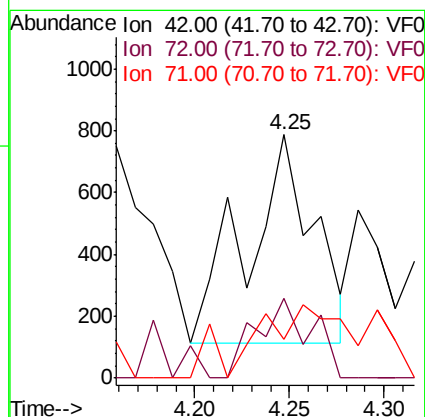
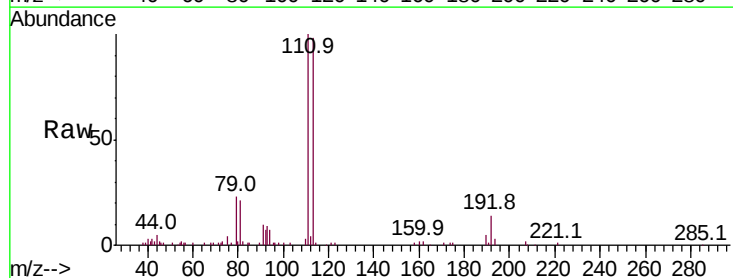
Tgt Ion: 42 Resp: 1669

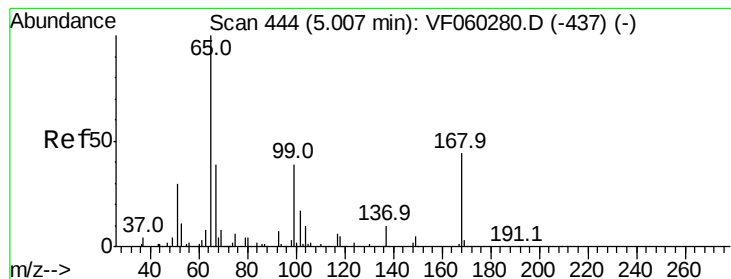
Ion Ratio Lower Upper

42 100

72 31.3 32.6 49.0#

71 53.4 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 41.353 ug/l

RT: 5.01 min Scan# 444

Delta R.T. -0.00 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

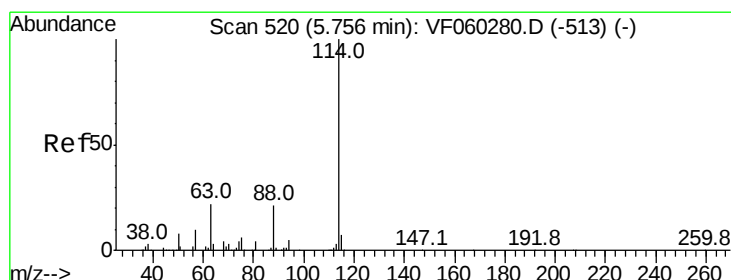
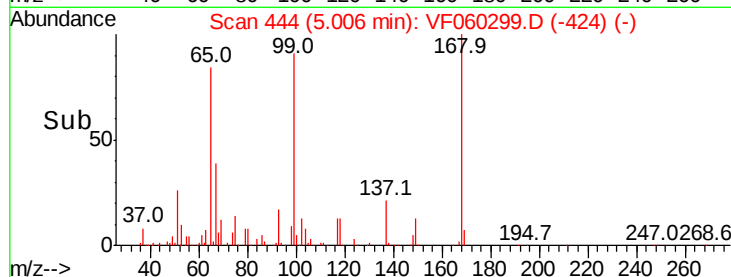
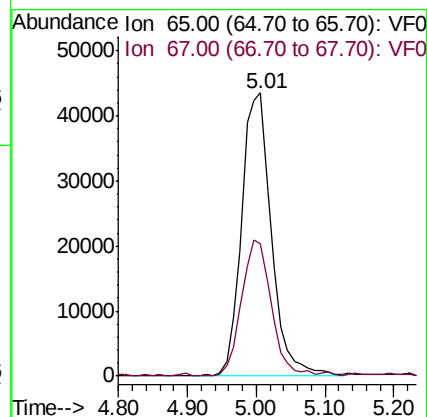
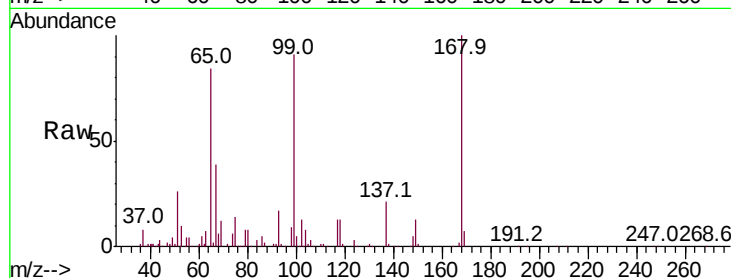
SAMPLE-01

Tot Ion: 65 Resp: 130587

Ion Ratio Lower Upper

65 100

67 46.7 0.0 94.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

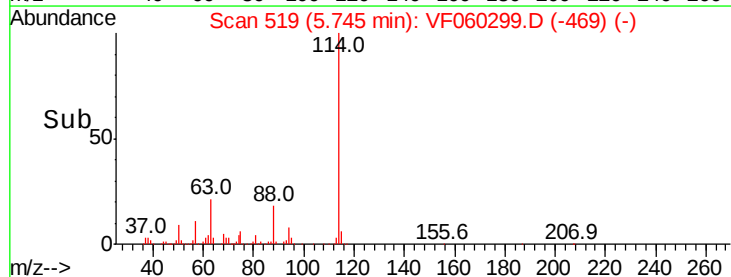
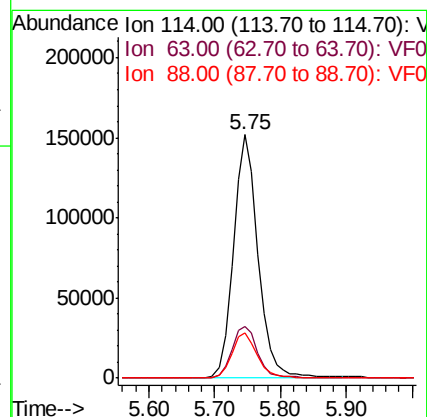
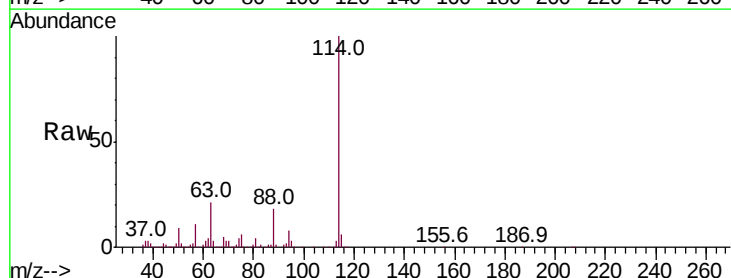
Tgt Ion: 114 Resp: 396210

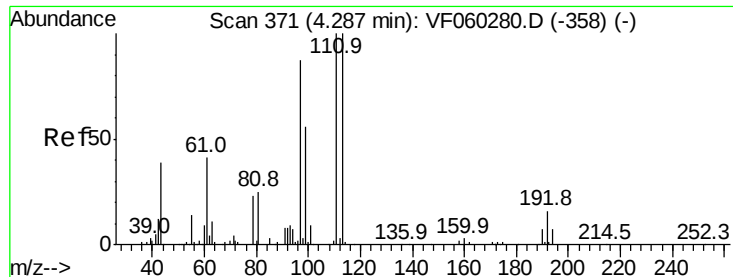
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

88 18.4 0.0 41.2

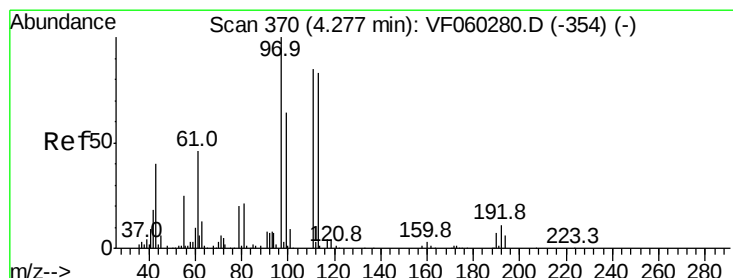
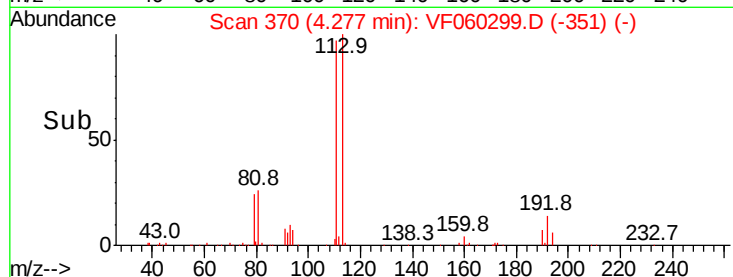
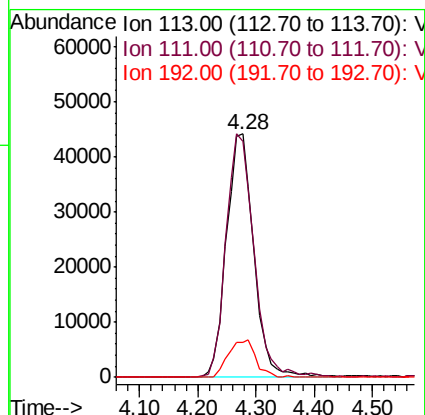
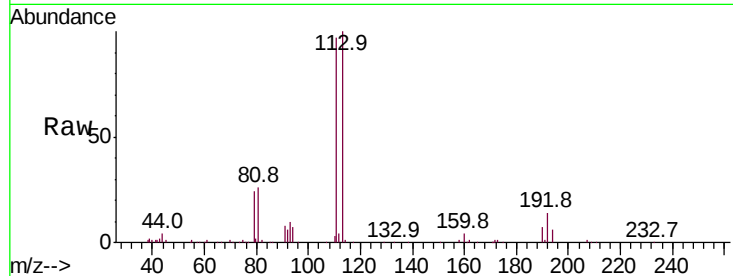




#35
 Dibromofluoromethane
 Concen: 40.703 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.01 min
 Lab File: VF060299.D
 Acq: 20 Sep 2018 13:17

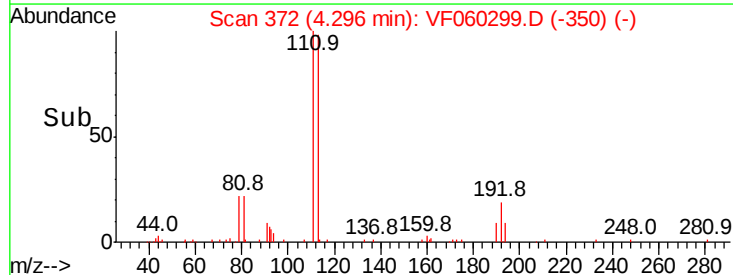
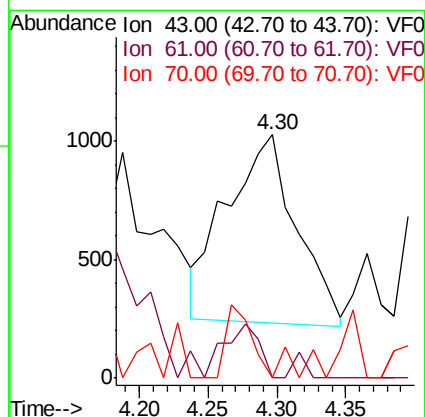
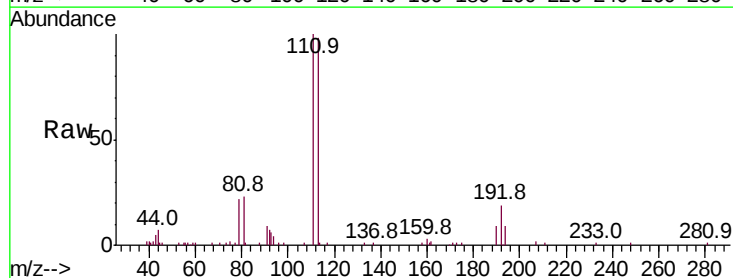
Instrument :
 MSVOA_F
 ClientSampleId :
 SAMPLE-01

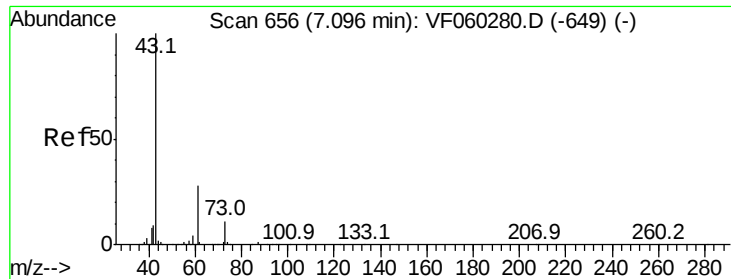
Tot Ion	Ratio	Lower	Upper
113	100		
111	97.1	79.6	119.4
192	14.3	13.0	19.6



#37
 Ethyl Acetate
 Concen: 1.330 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VF060299.D
 Acq: 20 Sep 2018 13:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	91.1	136.7#
70	0.0	6.9	10.3#



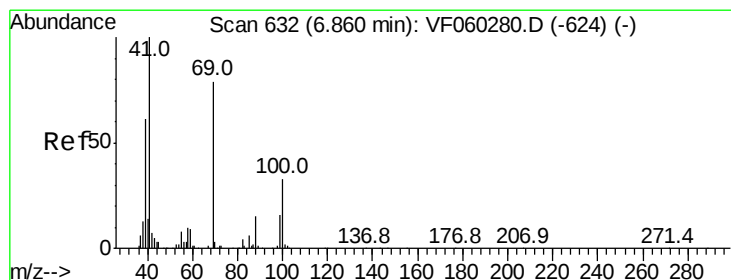
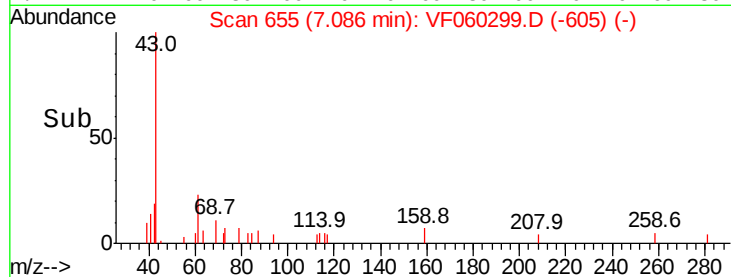
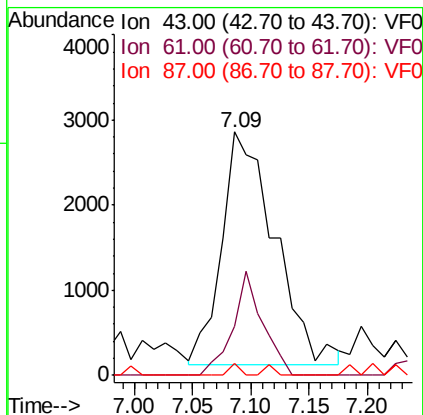
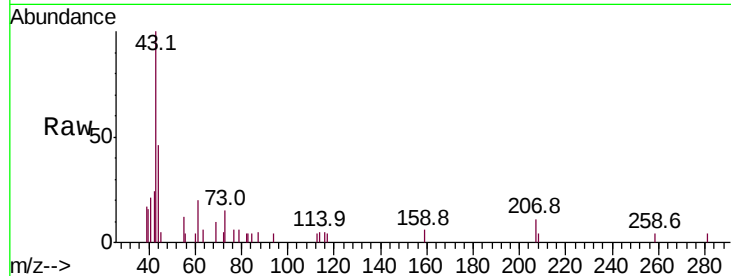


#43

Isopropyl Acetate
 Concen: 3.422 ug/l
 RT: 7.09 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: VF060299.D
 Acq: 20 Sep 2018 13:17

Instrument :
 MSVOA_F
 ClientSampleId :
 SAMPLE-01

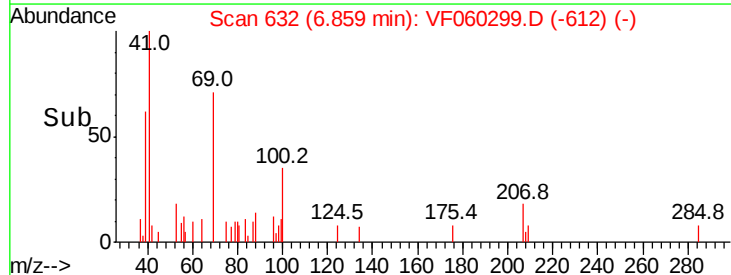
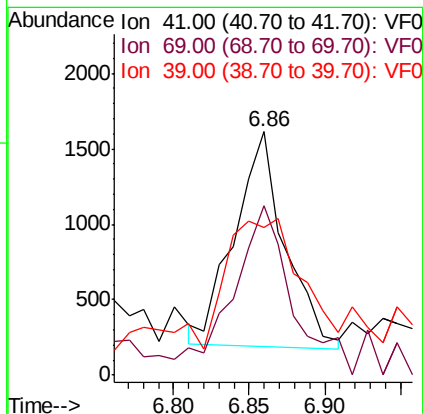
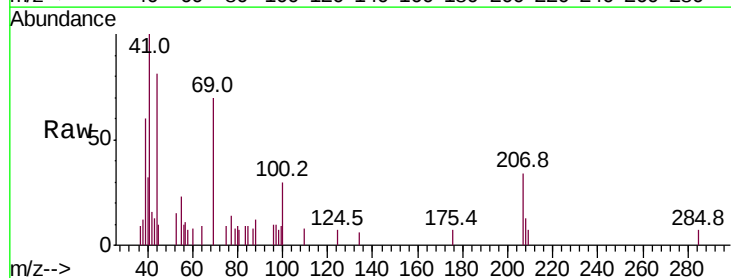
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.1	22.4	33.6#
87	4.9	0.6	0.8#

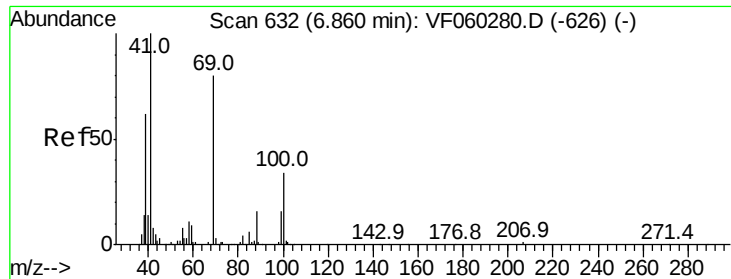


#48

Methyl methacrylate
 Concen: 1.871 ug/l
 RT: 6.86 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: VF060299.D
 Acq: 20 Sep 2018 13:17

Tgt Ion	Ratio	Lower	Upper
41	100		
69	69.8	62.6	94.0
39	60.5	49.1	73.7





#49

1,4-Dioxane

Concen: 27.299 ug/l

RT: 6.85 min Scan# 631

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

SAMPLE-01

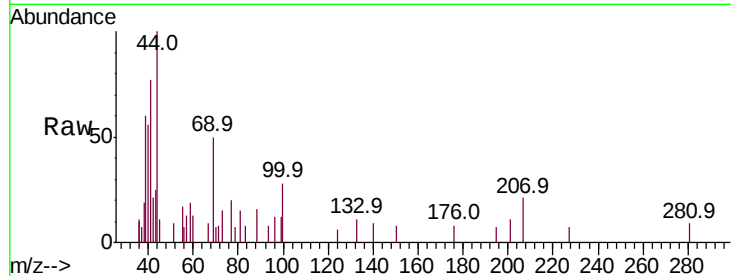
Tot Ion: 88 Resp: 431

Ion Ratio Lower Upper

88 100

43 153.6 40.2 60.4#

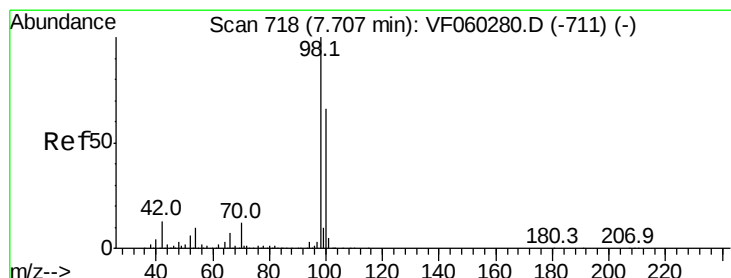
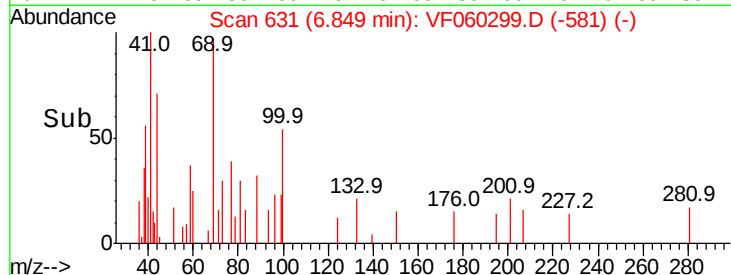
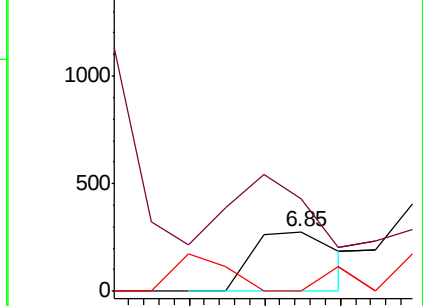
58 0.0 56.7 85.1#



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: 36.599 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060299.D

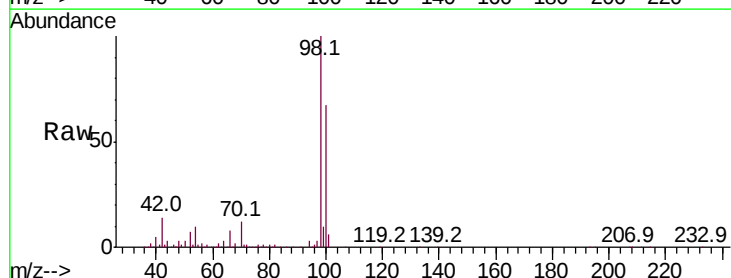
Acq: 20 Sep 2018 13:17

Tgt Ion: 98 Resp: 336632

Ion Ratio Lower Upper

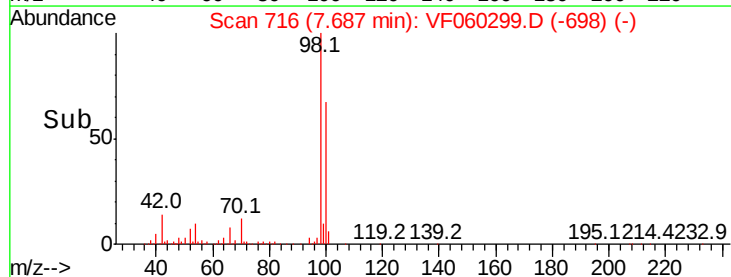
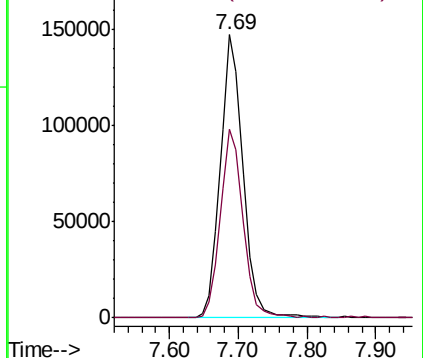
98 100

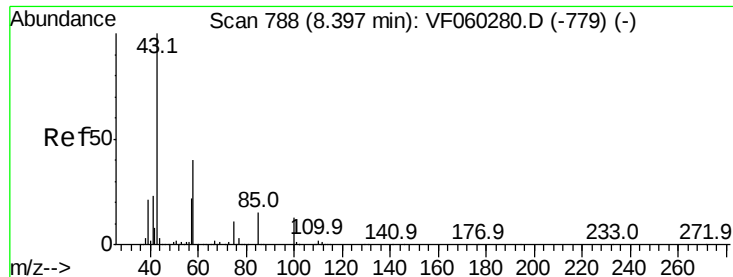
100 66.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 16.028 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

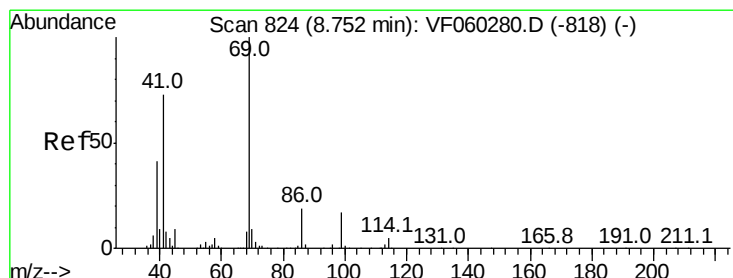
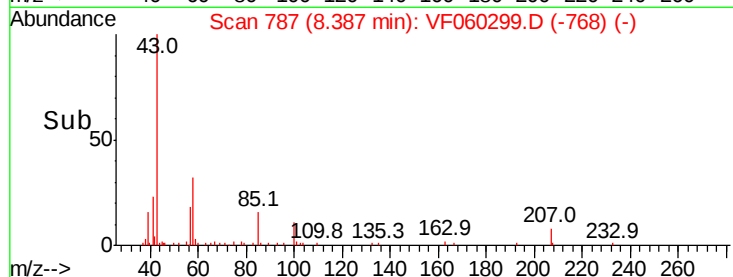
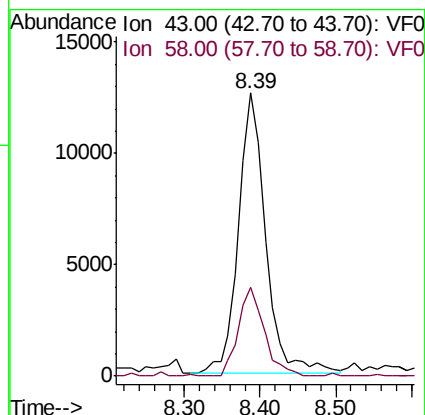
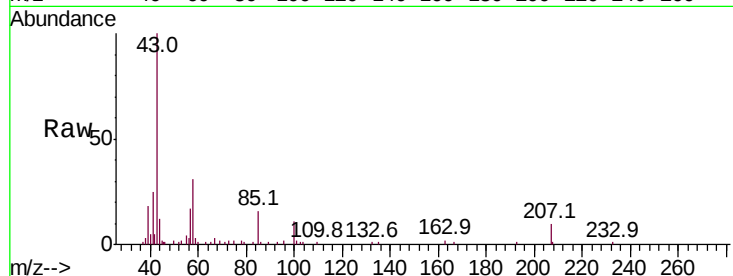
SAMPLE-01

Tot Ion: 43 Resp: 31100

Ion Ratio Lower Upper

43 100

58 31.4 31.8 47.8#



#56

Ethyl methacrylate

Concen: 3.067 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

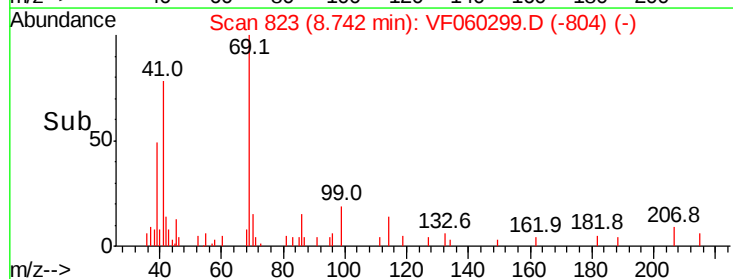
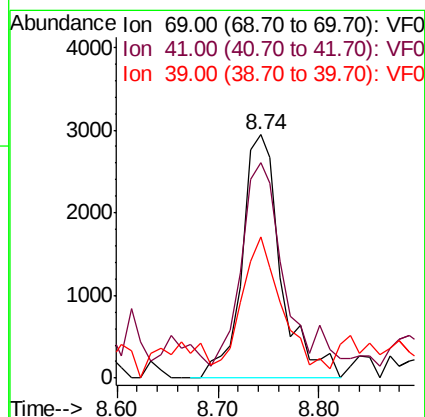
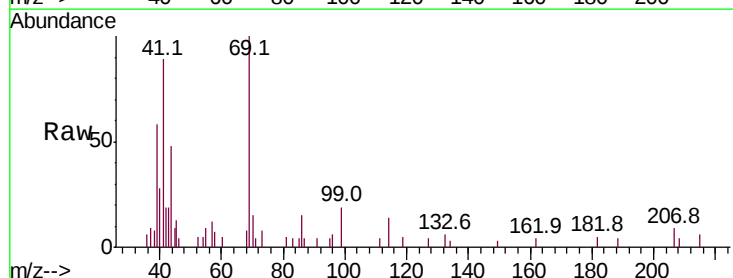
Tgt Ion: 69 Resp: 7970

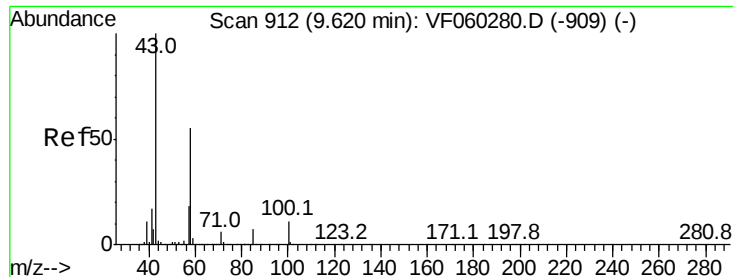
Ion Ratio Lower Upper

69 100

41 88.7 59.4 89.2

39 58.1 33.5 50.3#

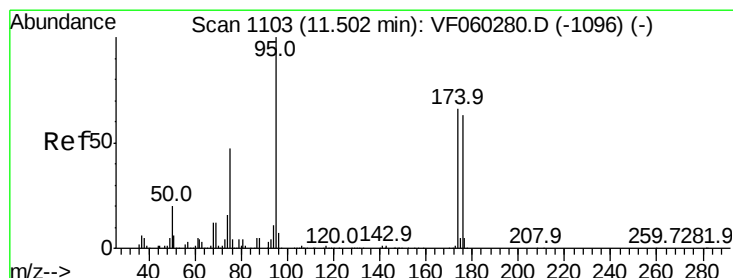
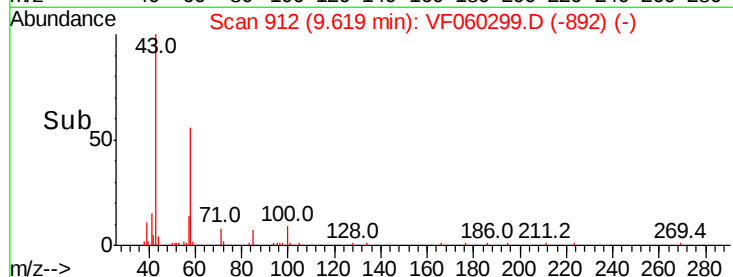
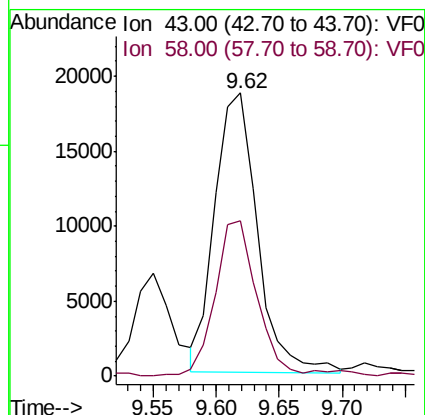
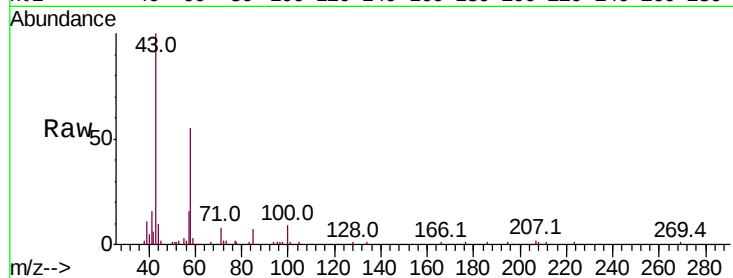




#59
2-Hexanone
Concen: 31.711 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

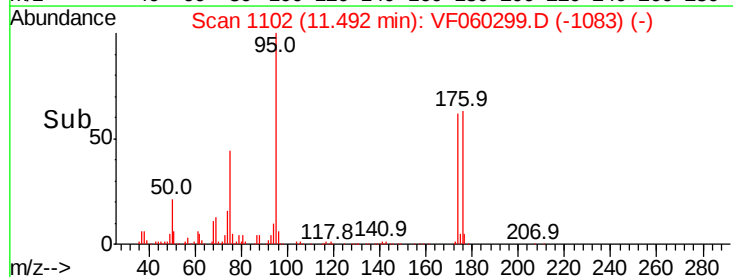
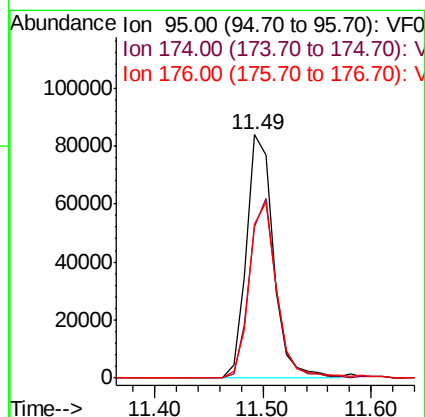
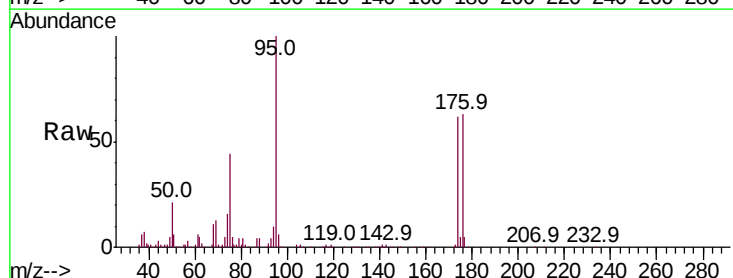
Instrument :
MSVOA_F
ClientSampleId :
SAMPLE-01

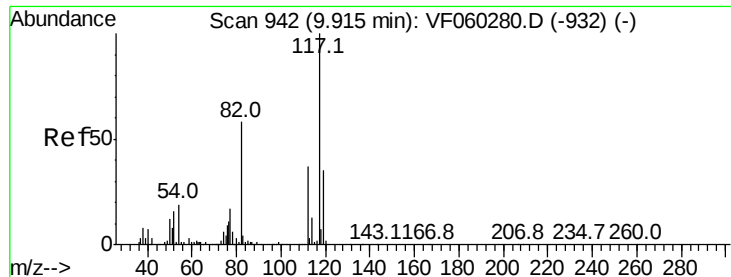
Tot Ion: 43 Resp: 43810
Ion Ratio Lower Upper
43 100
58 54.7 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 36.802 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

Tgt Ion: 95 Resp: 146324
Ion Ratio Lower Upper
95 100
174 62.0 0.0 131.2
176 63.1 0.0 126.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.02 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

SAMPLE-01

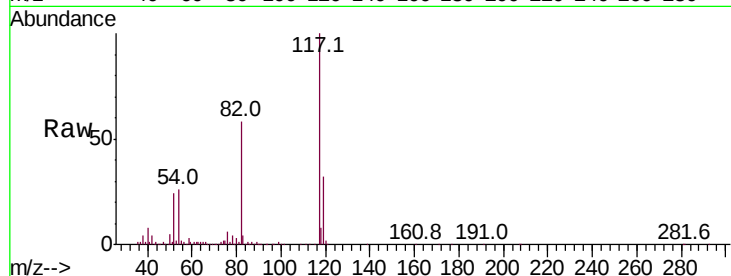
Tot Ion:117 Resp: 340394

Ion Ratio Lower Upper

117 100

82 57.6 46.2 69.2

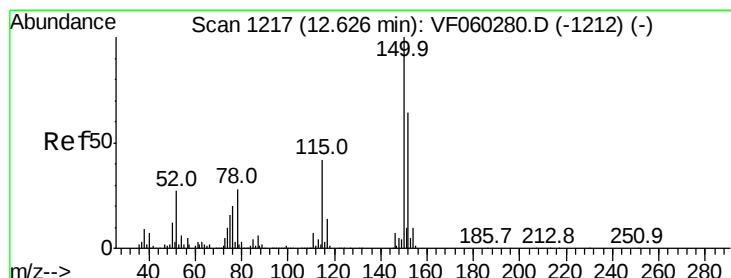
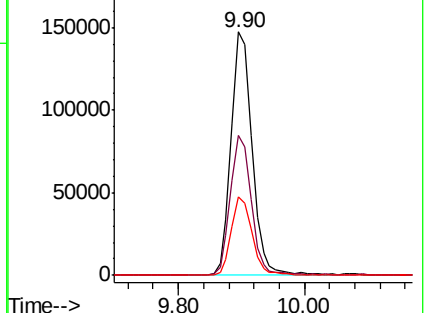
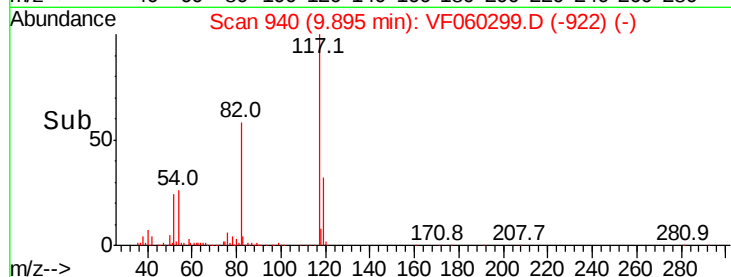
119 32.1 27.8 41.6



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: 12.62 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

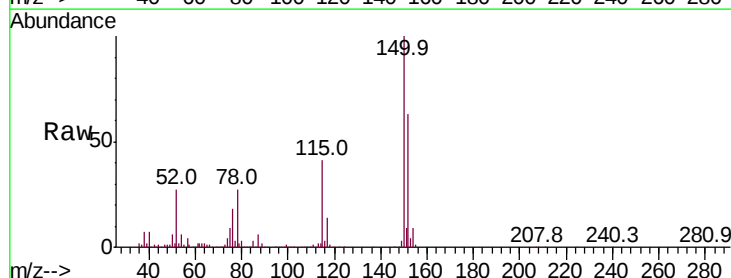
Tgt Ion:152 Resp: 173130

Ion Ratio Lower Upper

152 100

115 65.2 32.6 97.8

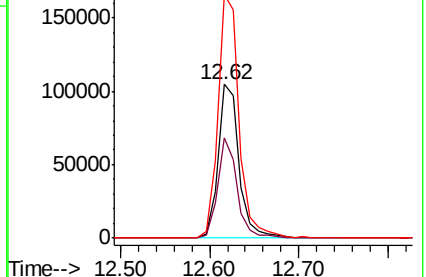
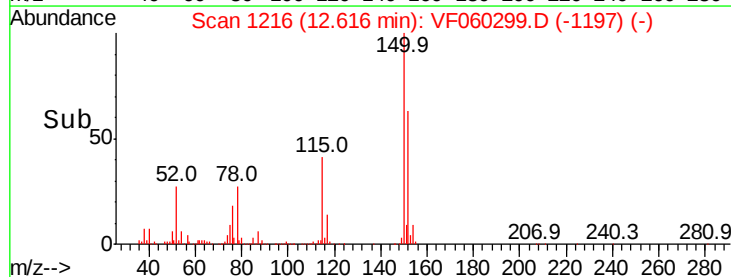
150 158.7 0.0 314.2

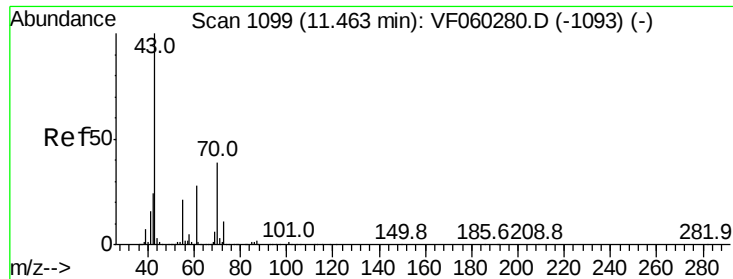


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 8.339 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

SAMPLE-01

Tot Ion: 43 Resp: 27639

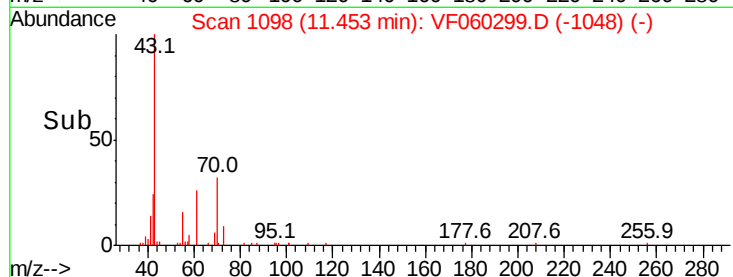
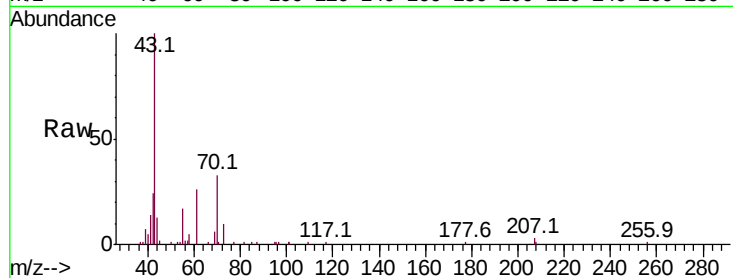
Ion Ratio Lower Upper

43 100

70 32.6 31.4 47.2

55 17.4 16.8 25.2

61 25.7 22.6 34.0



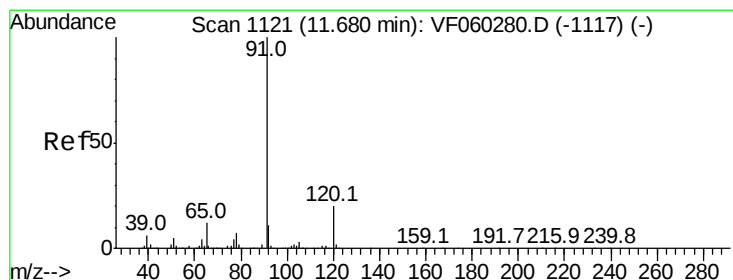
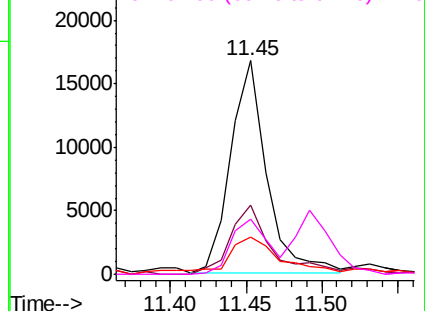
Abundance

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



#78

n-propylbenzene

Concen: Below Cal

RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060299.D

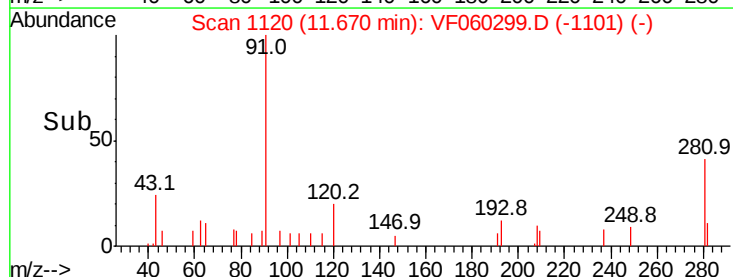
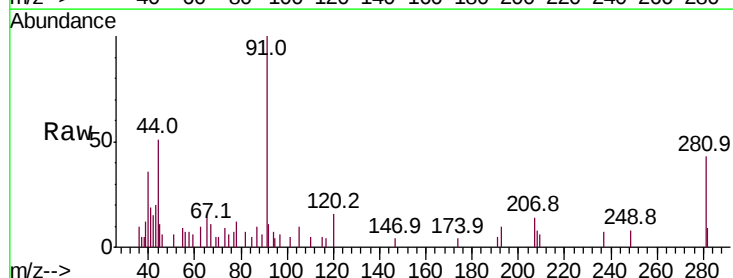
Acq: 20 Sep 2018 13:17

Tgt Ion: 91 Resp: 4472

Ion Ratio Lower Upper

91 100

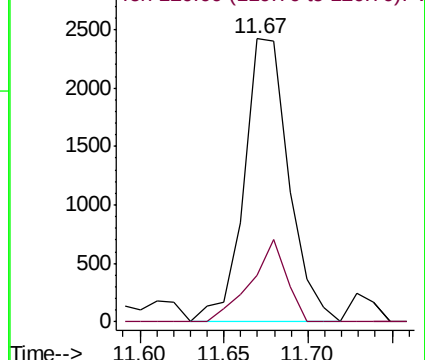
120 16.5 10.0 29.8

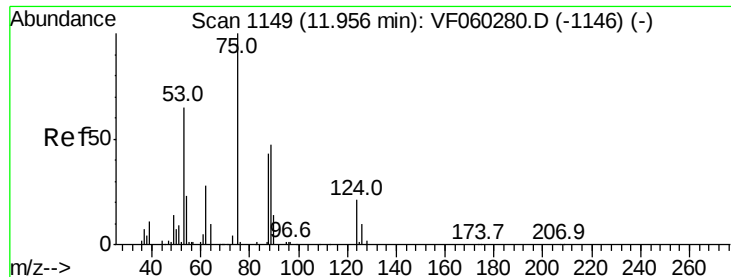


Abundance

Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.103 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF060299.D

Acq: 20 Sep 2018 13:17

Instrument :

MSVOA_F

ClientSampleId :

SAMPLE-01

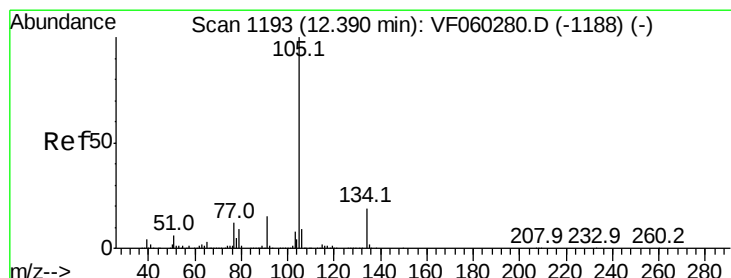
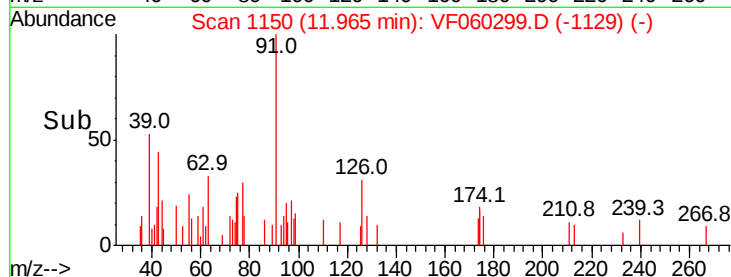
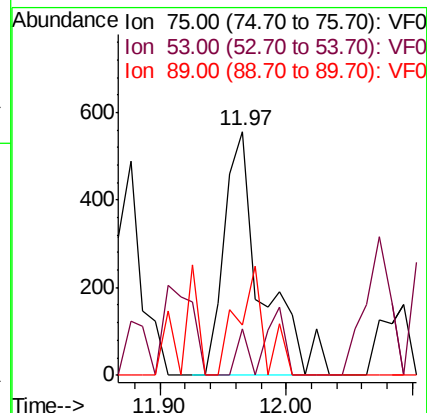
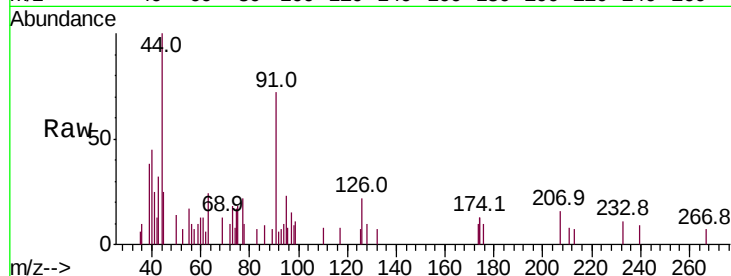
Tot Ion: 75 Resp: 1150

Ion Ratio Lower Upper

75 100

53 19.2 56.5 84.7#

89 20.9 40.6 60.8#



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060299.D

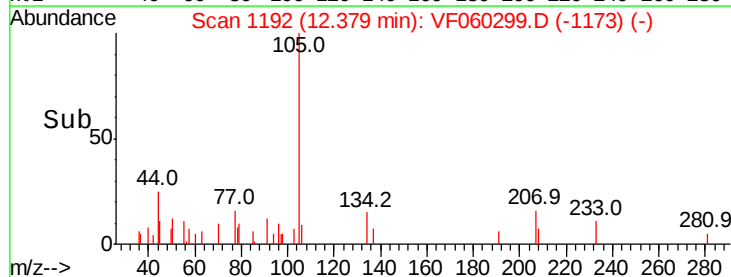
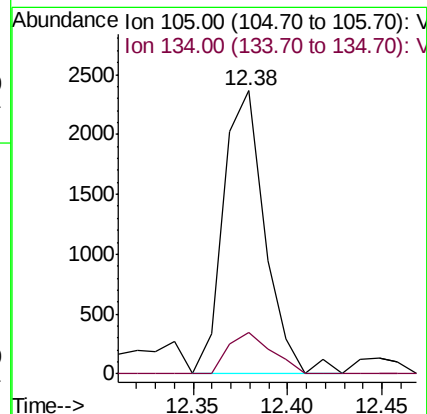
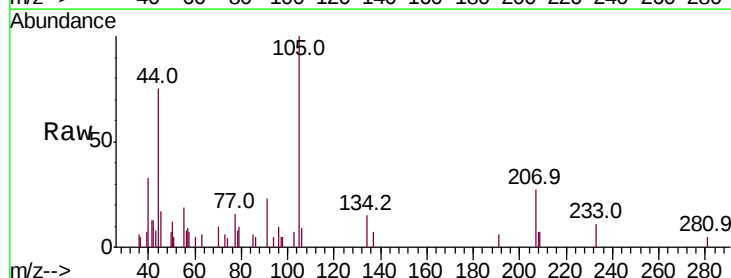
Acq: 20 Sep 2018 13:17

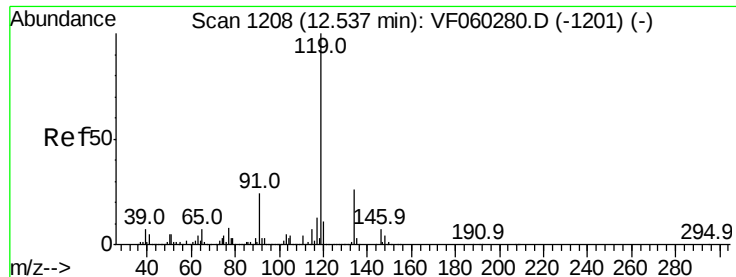
Tgt Ion:105 Resp: 3599

Ion Ratio Lower Upper

105 100

134 14.6 9.6 28.6

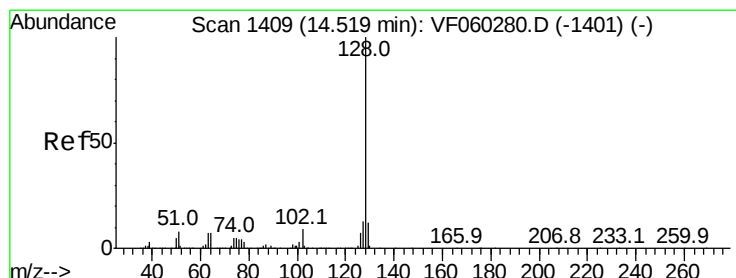
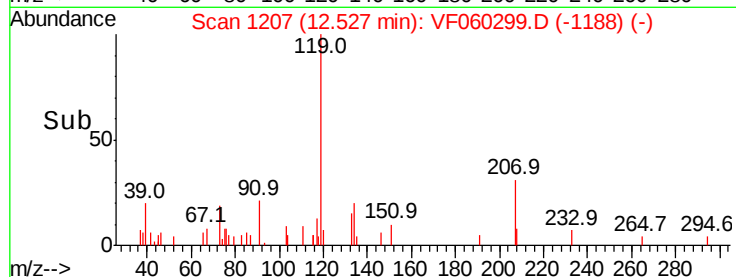
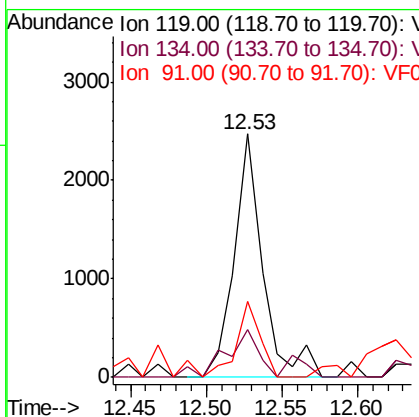
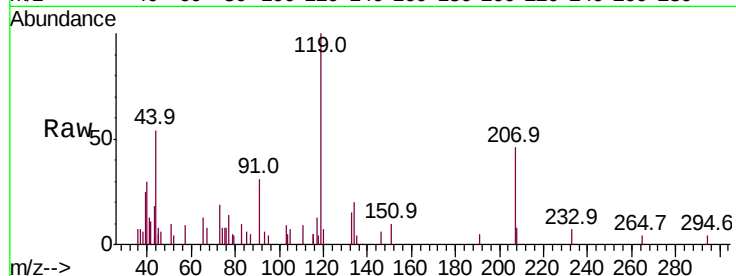




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 12.53 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

Instrument :
MSVOA_F
ClientSampleId :
SAMPLE-01

Tot Ion	Ratio	Lower	Upper
119	100		
134	19.8	12.9	38.7
91	31.2	11.9	35.7



#95
Naphthalene
Concen: 4.160 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. -0.01 min
Lab File: VF060299.D
Acq: 20 Sep 2018 13:17

Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.1	15.1#
129	13.4	9.8	14.8

