

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042519\
 Data File : VF062299.D
 Acq On : 25 Apr 2019 18:32
 Operator : FY/SY
 Sample : K2564-03RE
 Misc : 5.65µ/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 C-3_042419RE

Quant Time: Apr 26 01:11:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	64868	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.76	114	62548	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	31982	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	10980	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	9489	18.06	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	36.12%	
35) Dibromofluoromethane	4.29	113	17217	37.12	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	74.24%	
50) Toluene-d8	7.70	98	47945	42.32	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	84.64%	
62) 4-Bromofluorobenzene	11.49	95	12747	27.30	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	54.60%	

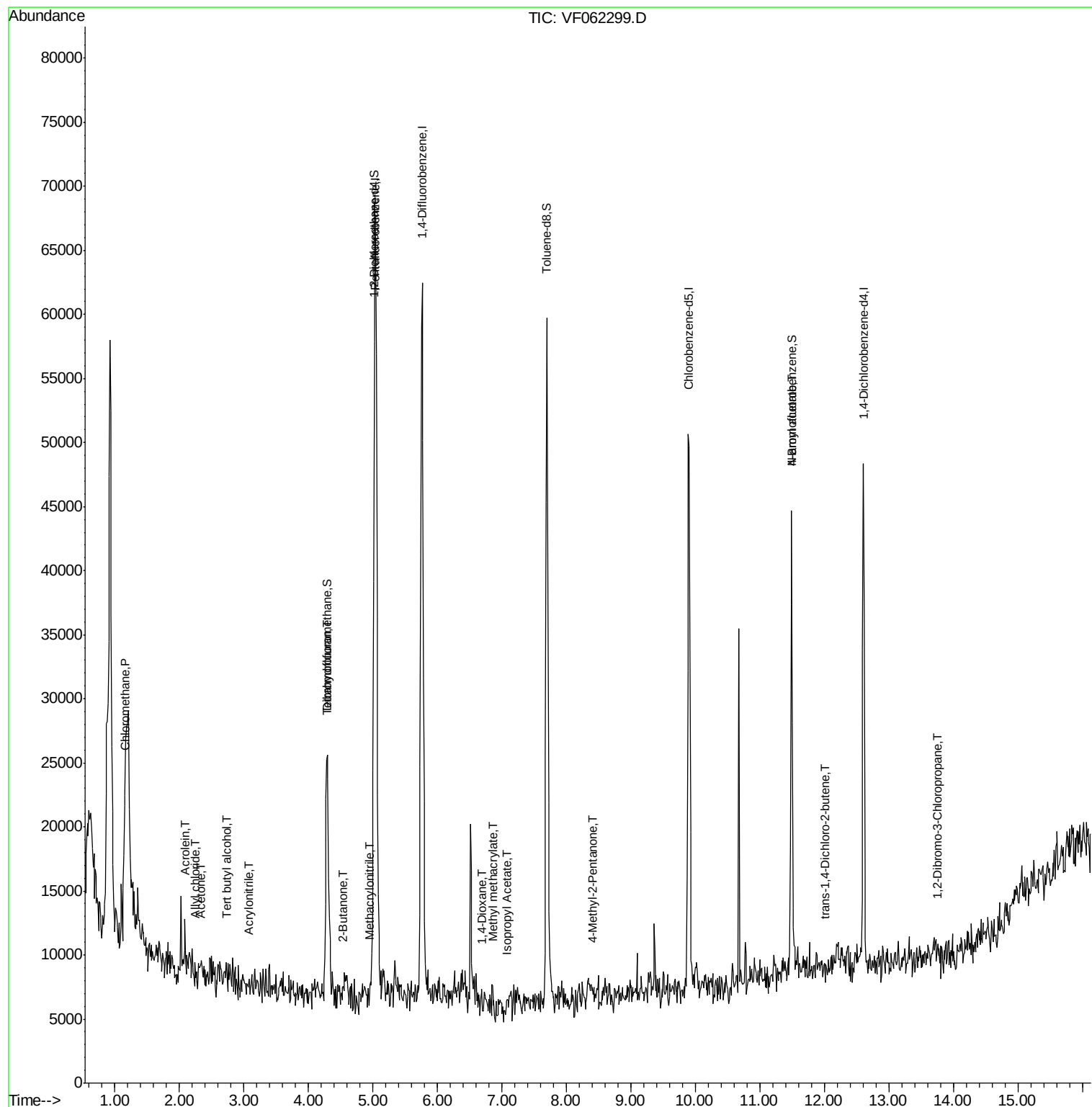
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.15	50	1012	1.558	ug/l #	17
11) Tert butyl alcohol	2.74	59	309	9.722	ug/l #	71
13) Acrolein	2.09	56	377	20.484	ug/l #	10
14) Allyl chloride	2.23	41	635	1.066	ug/l #	75
15) Acrylonitrile	3.07	53	147	1.670	ug/l #	50
16) Acetone	2.32	43	1407	11.960	ug/l #	56
20) Methylene Chloride	2.31	84	716	Below Cal	#	2
25) 2-Butanone	4.53	43	900	4.825	ug/l #	57
29) Tetrahydrofuran	4.28	42	1151	14.043	ug/l #	42
41) Methacrylonitrile	4.95	41	1048	7.771	ug/l #	29
43) Isopropyl Acetate	7.09	43	959	3.659	ug/l #	46
48) Methyl methacrylate	6.87	41	687	3.863	ug/l #	21
49) 1,4-Dioxane	6.68	88	63	30.761	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	1186	6.200	ug/l #	48
59) 2-Hexanone	9.61	43	674	Below Cal		66
74) N-amyl acetate	11.48	43	1340	7.731	ug/l #	60
81) trans-1,4-Dichloro-2-buten	11.99	75	75	1.979	ug/l #	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	99	4.106	ug/l #	1

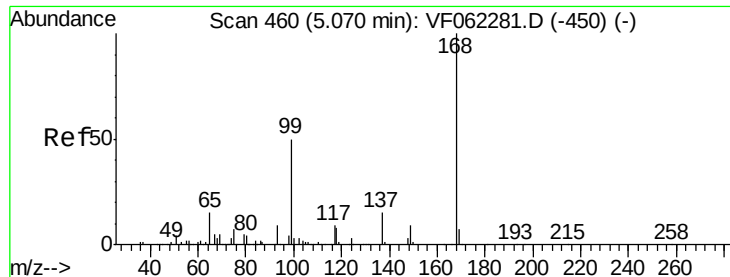
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 25 08:40:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 458

Delta R.T. -0.03 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

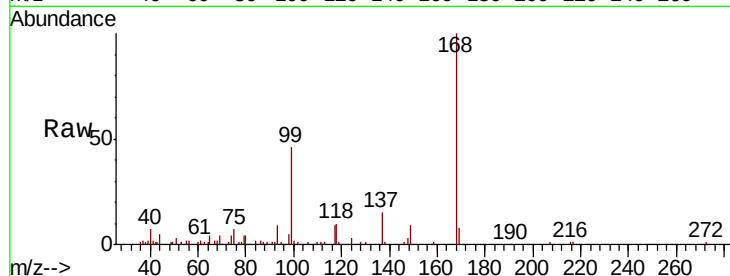
C-3_042419RE

Tot Ion:168 Resp: 64868

Ion Ratio Lower Upper

168 100

99 46.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.04

25000

20000

15000

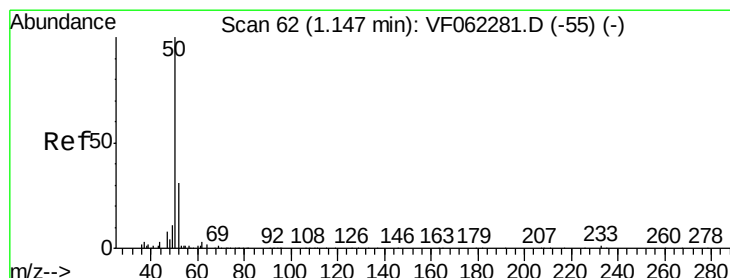
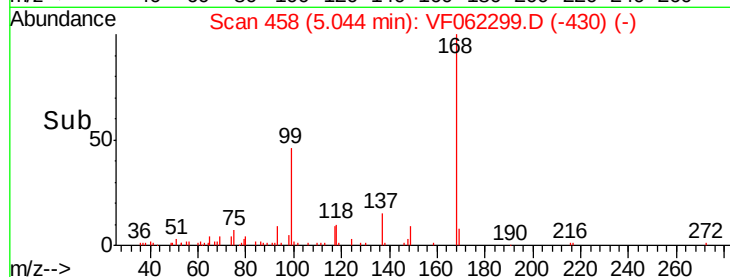
10000

5000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: 1.558 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062299.D

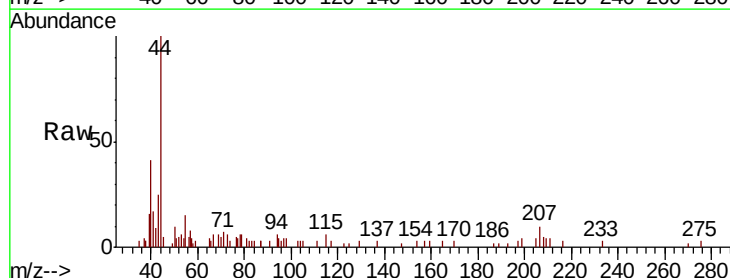
Acq: 25 Apr 2019 18:32

Tgt Ion: 50 Resp: 1012

Ion Ratio Lower Upper

50 100

52 75.7 24.2 36.4#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0

1.15

500

400

300

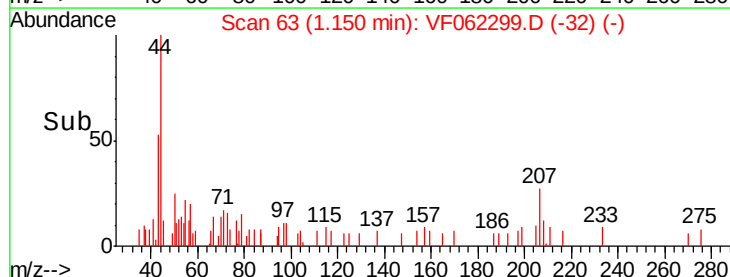
200

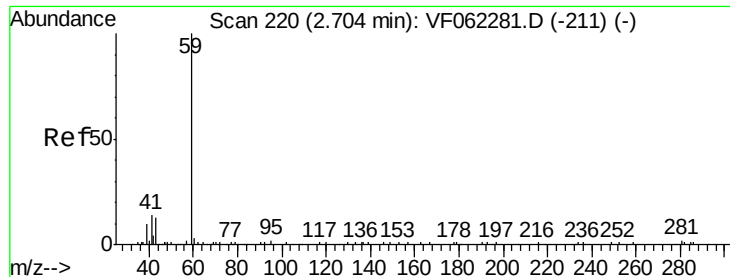
100

0

Time-->

1.10 1.15 1.20

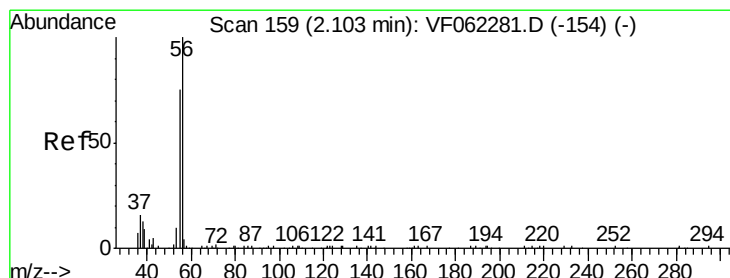
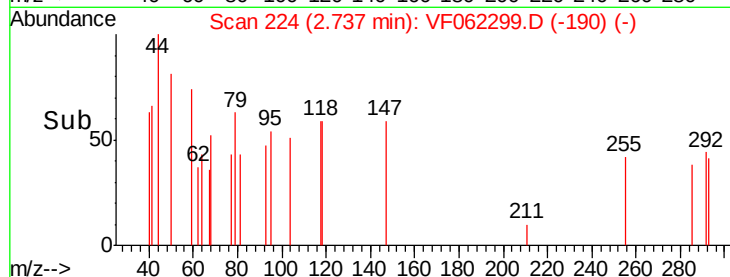
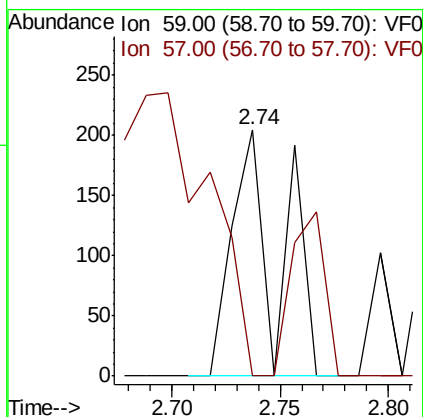
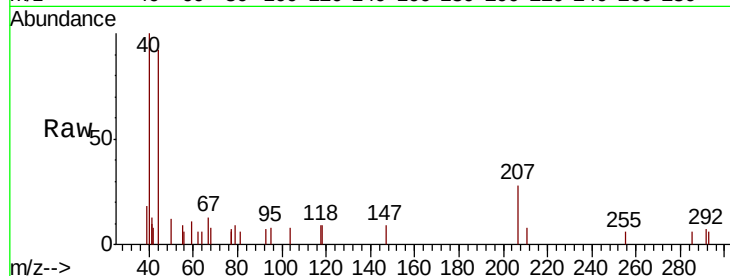




#11
Tert butyl alcohol
Concen: 9.722 ug/l
RT: 2.74 min Scan# 224
Delta R.T. 0.03 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

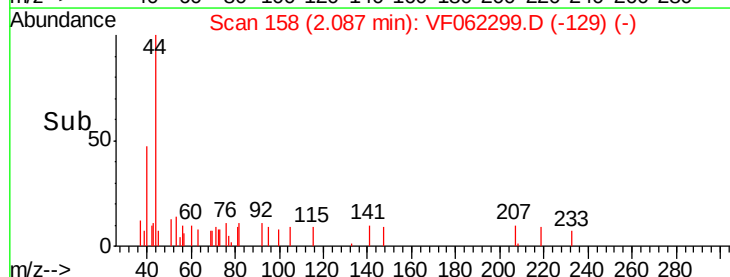
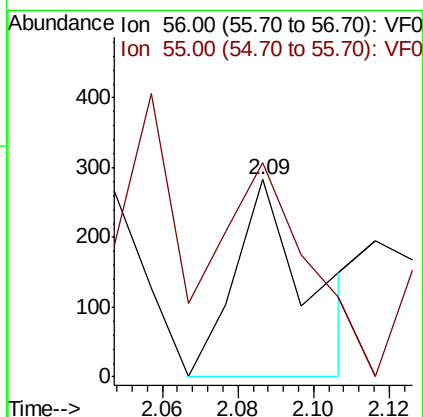
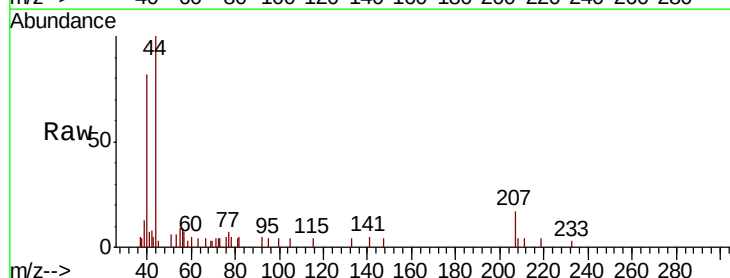
Instrument :
MSVOA_F
ClientSampleId :
C-3_042419RE

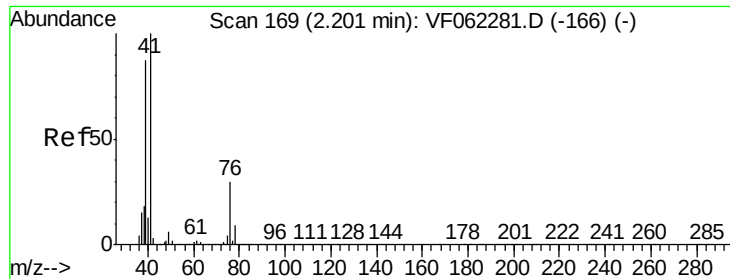
Tot Ion: 59 Resp: 309
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#13
Acrolein
Concen: 20.484 ug/l
RT: 2.09 min Scan# 158
Delta R.T. -0.02 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

Tgt Ion: 56 Resp: 377
Ion Ratio Lower Upper
56 100
55 0.0 62.3 93.5#

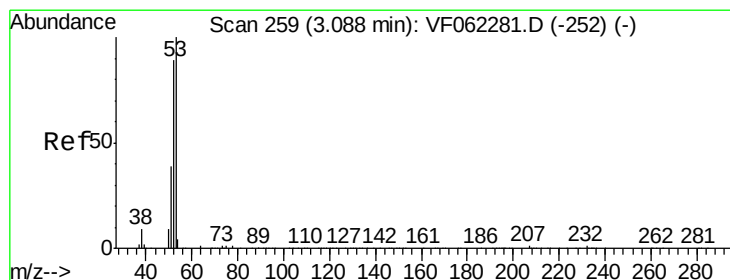
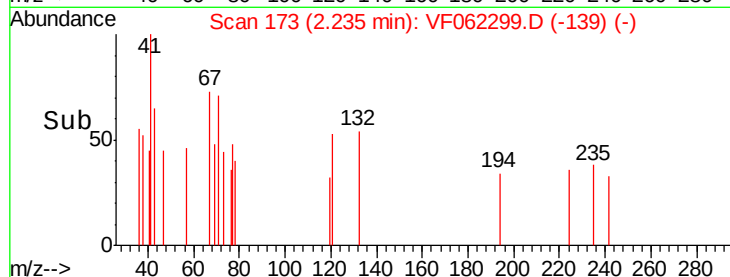
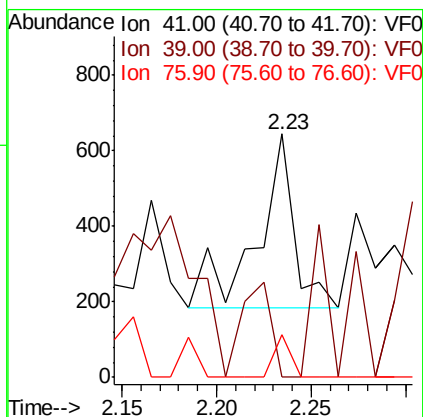
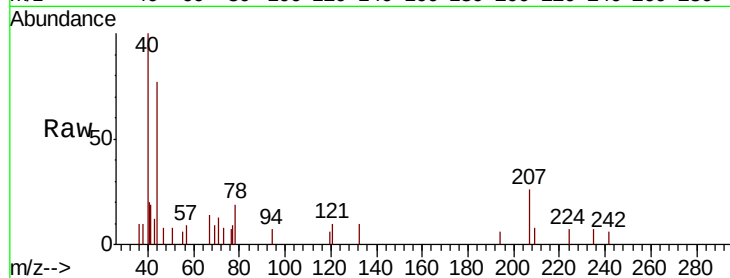




#14
Allvl chloride
Concen: 1.066 ug/l
RT: 2.23 min Scan# 173
Delta R.T. 0.03 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

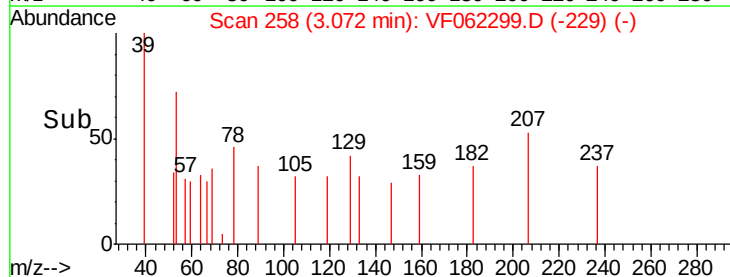
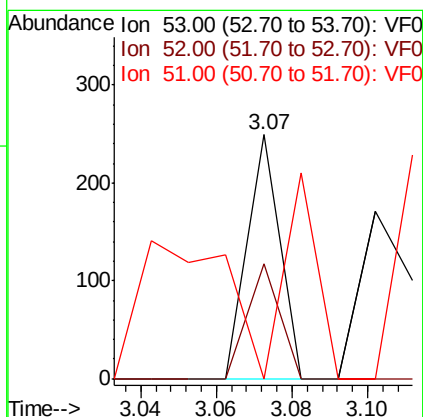
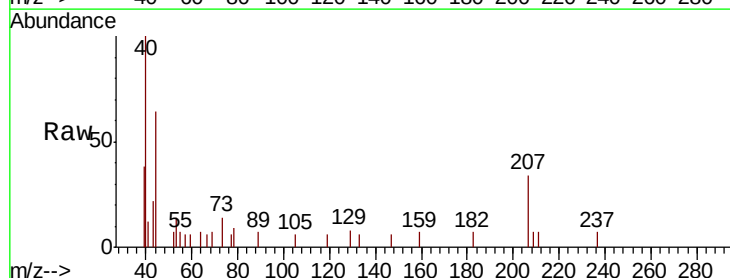
Instrument :
MSVOA_F
ClientSampleId :
C-3_042419RE

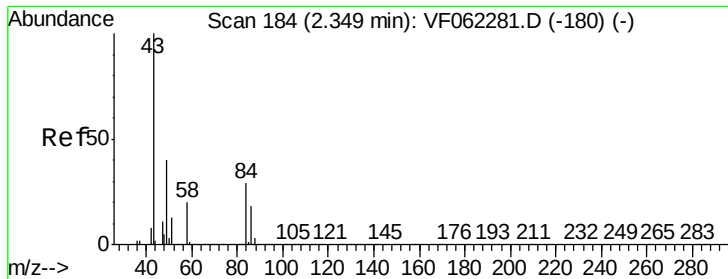
Tot Ion: 41 Resp: 635
Ion Ratio Lower Upper
41 100
39 42.4 50.3 75.5#
76 10.6 14.8 22.2#



#15
Acrylonitrile
Concen: 1.670 ug/l
RT: 3.07 min Scan# 258
Delta R.T. -0.02 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

Tgt Ion: 53 Resp: 147
Ion Ratio Lower Upper
53 100
52 47.6 70.6 105.8#
51 0.0 32.6 48.8#





#16

Acetone

Concen: 11.960 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.03 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

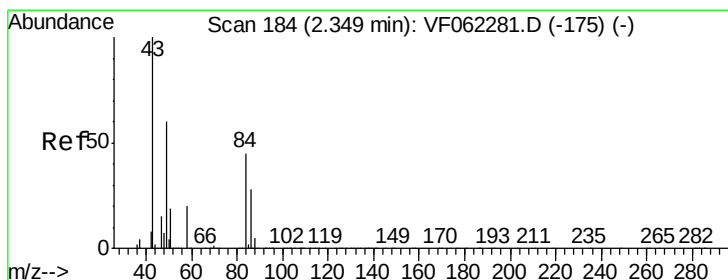
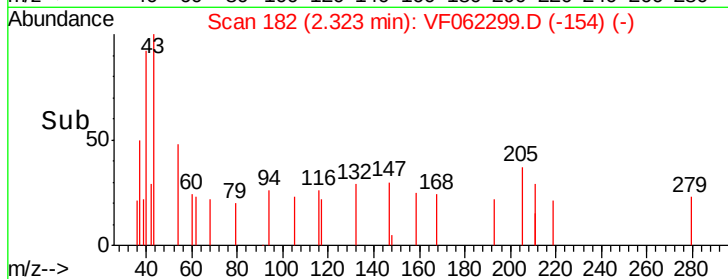
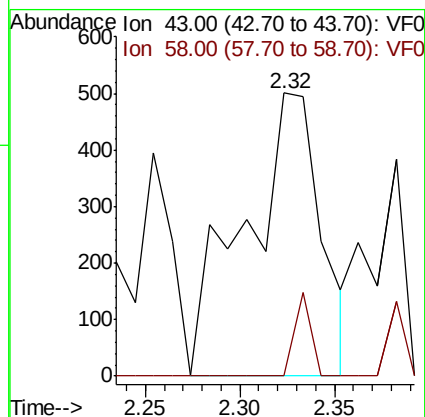
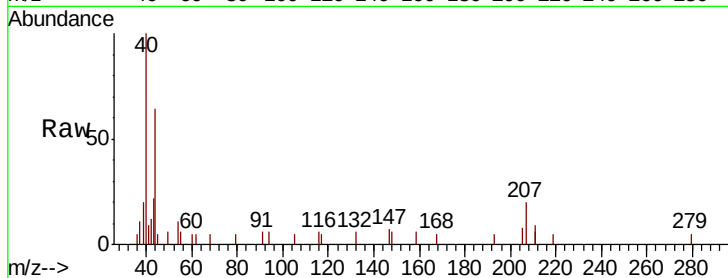
C-3_042419RE

Tot Ion: 43 Resp: 1407

Ion Ratio Lower Upper

43 100

58 0.0 16.4 24.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.31 min Scan# 181

Delta R.T. -0.04 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Tgt Ion: 84 Resp: 716

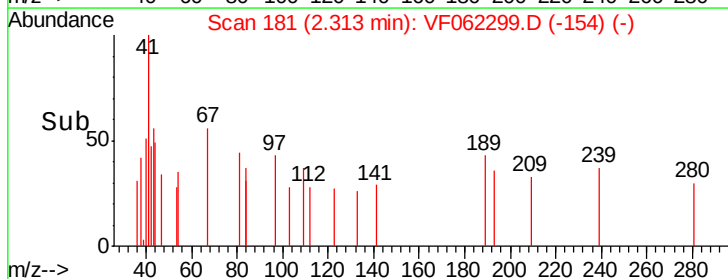
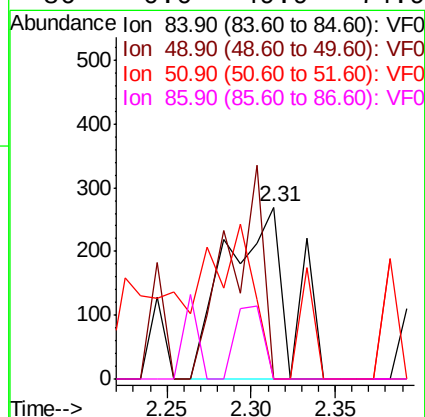
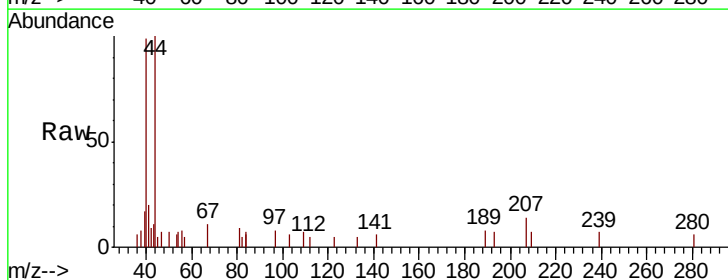
Ion Ratio Lower Upper

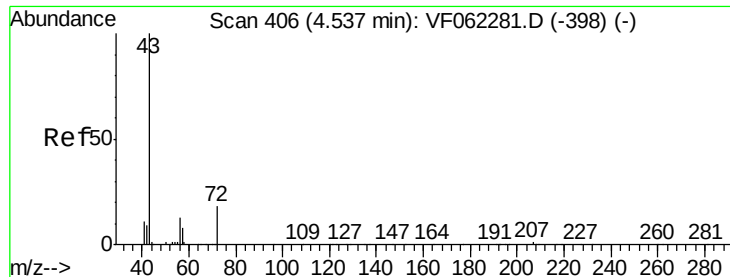
84 100

49 0.0 112.1 168.1#

51 0.0 35.9 53.9#

86 0.0 49.9 74.9#





#25

2-Butanone

Concen: 4.825 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.01 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

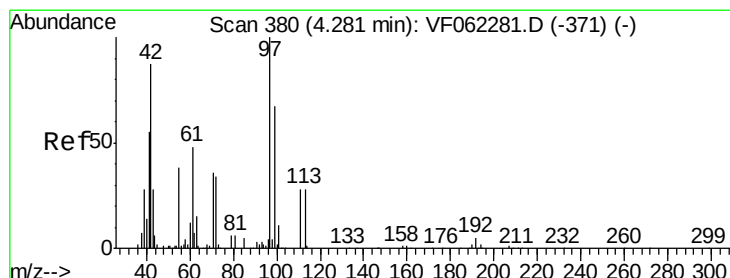
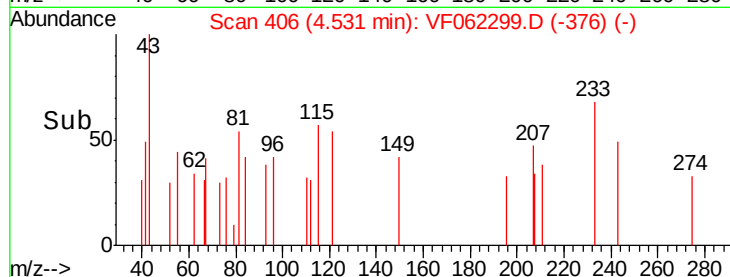
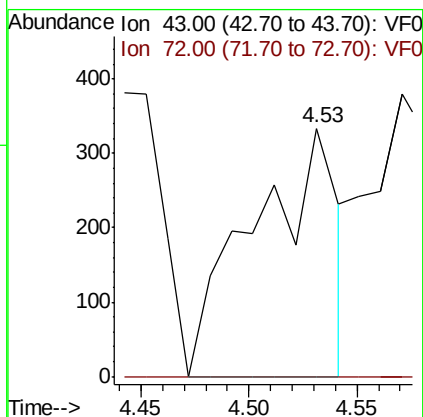
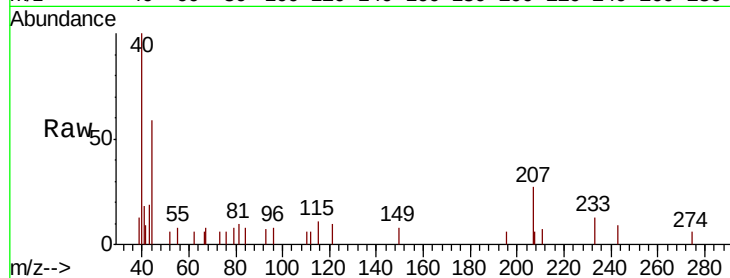
C-3_042419RE

Tot Ion: 43 Resp: 900

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



#29

Tetrahydrofuran

Concen: 14.043 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.01 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

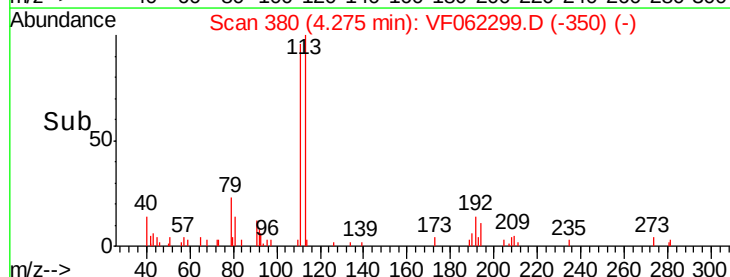
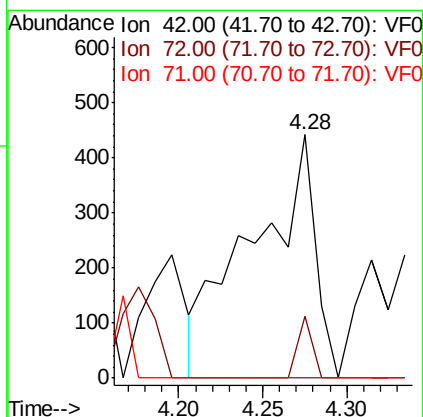
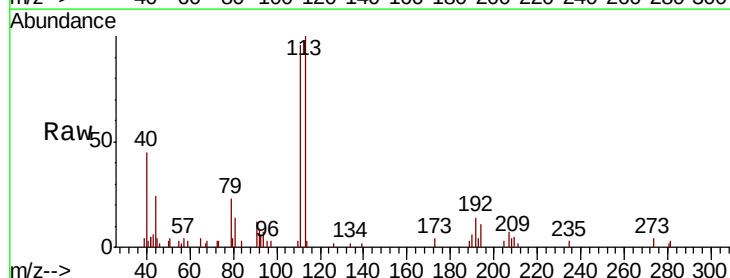
Tgt Ion: 42 Resp: 1151

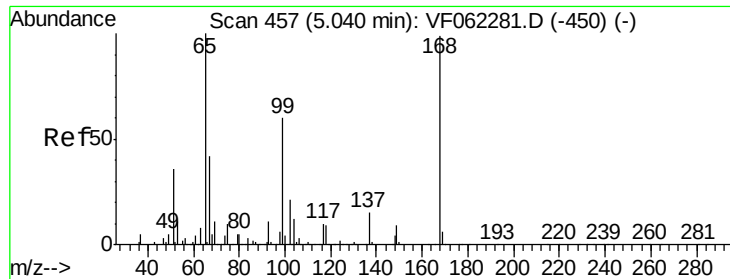
Ion Ratio Lower Upper

42 100

72 5.8 29.3 43.9#

71 0.0 31.2 46.8#

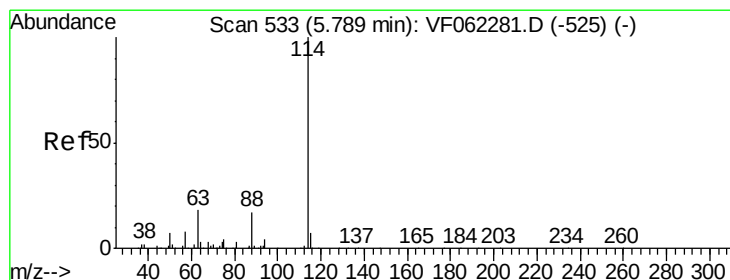
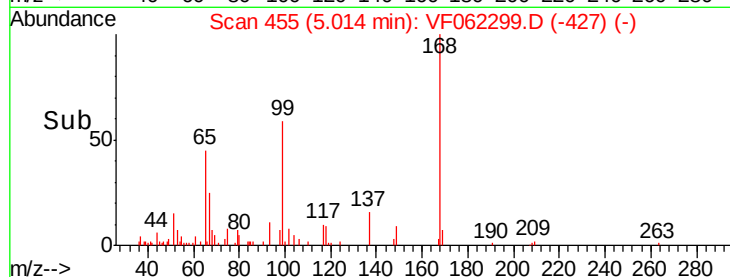
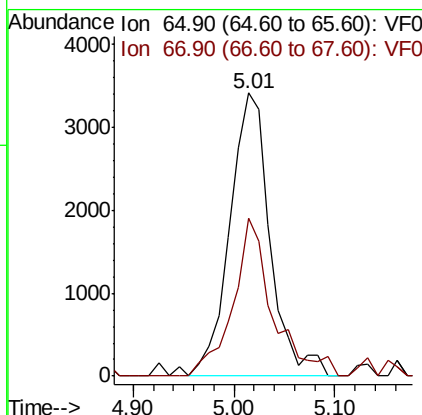
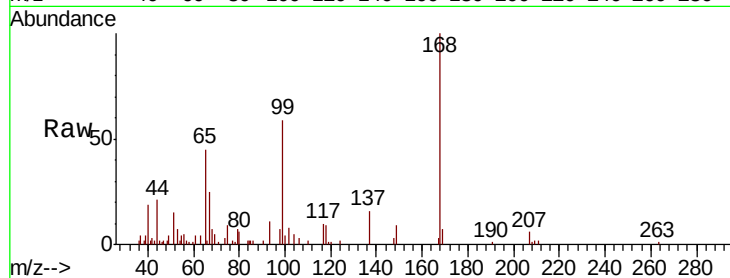




#33
 1,2-Dichloroethane-d4
 Concen: 18.059 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.03 min
 Lab File: VF062299.D
 Acq: 25 Apr 2019 18:32

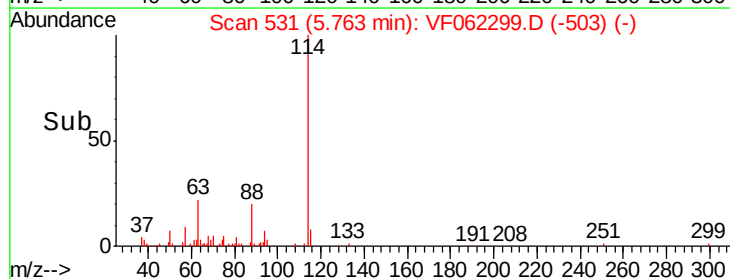
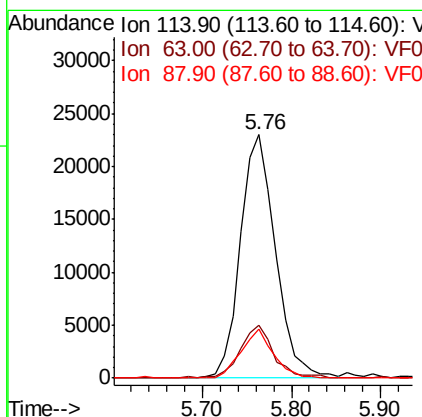
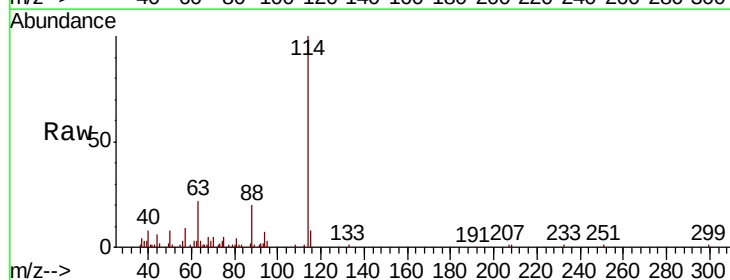
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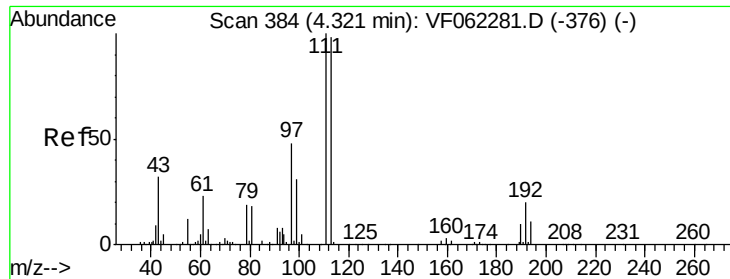
Tot Ion: 65 Resp: 9489
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 98.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 531
 Delta R.T. -0.03 min
 Lab File: VF062299.D
 Acq: 25 Apr 2019 18:32

Tgt Ion: 114 Resp: 62548
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 35.6
 88 20.3 0.0 34.6





#35

Dibromofluoromethane

Concen: 37.125 ug/l

RT: 4.29 min Scan# 382

Delta R.T. -0.03 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

C-3_042419RE

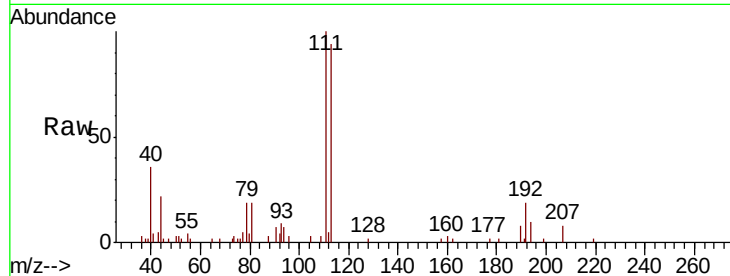
Tot Ion:113 Resp: 17217

Ion Ratio Lower Upper

113 100

111 104.8 81.4 122.2

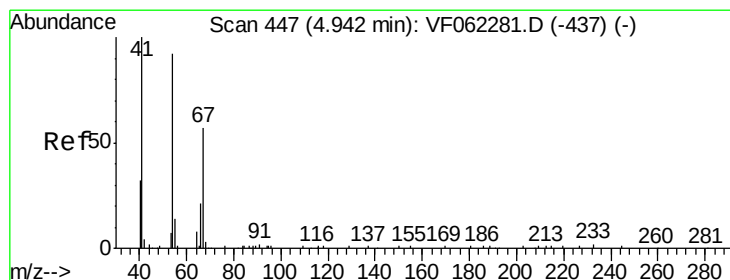
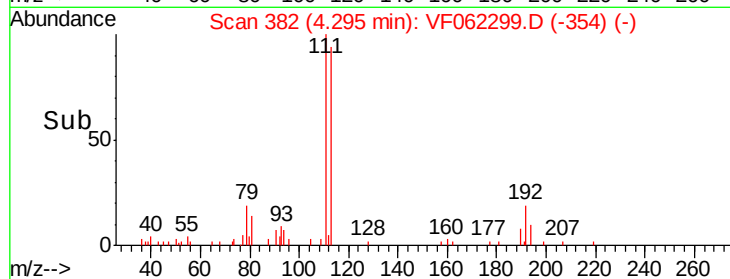
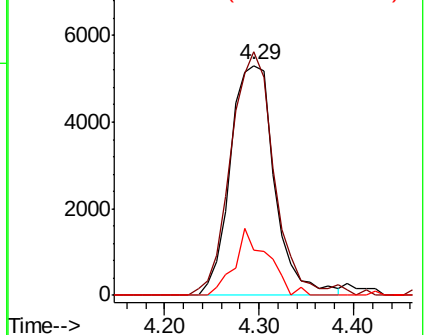
192 22.0 17.0 25.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#41

Methacrylonitrile

Concen: 7.771 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.00 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Tgt Ion: 41 Resp: 1048

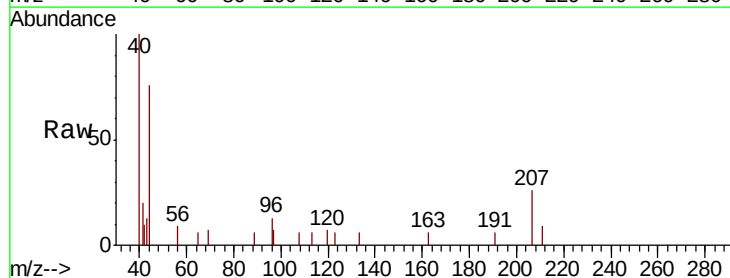
Ion Ratio Lower Upper

41 100

39 0.0 47.3 70.9#

67 0.0 41.3 61.9#

52 13.9 49.4 74.2#

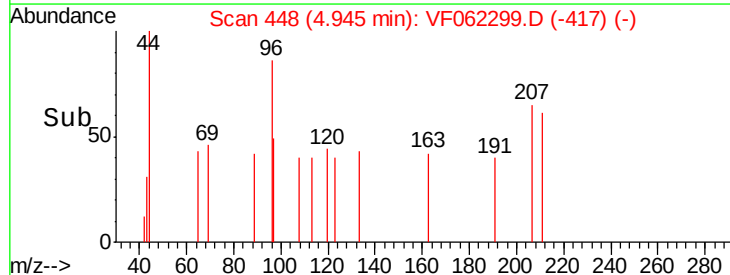
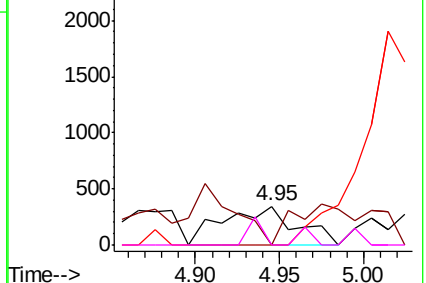


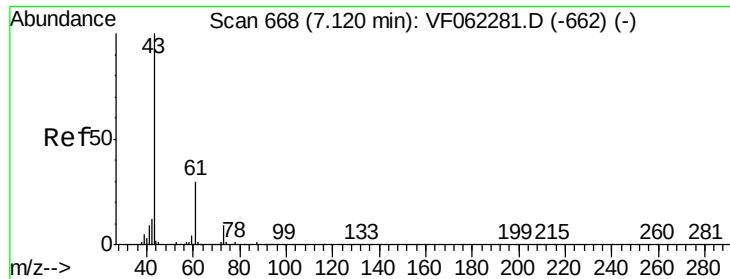
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 3.659 ug/l

RT: 7.09 min Scan# 666

Delta R.T. -0.03 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

C-3_042419RE

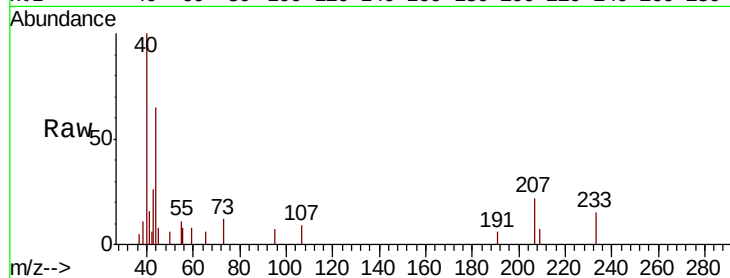
Tot Ion: 43 Resp: 959

Ion Ratio Lower Upper

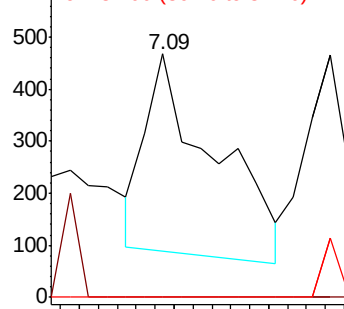
43 100

61 0.0 23.8 35.6#

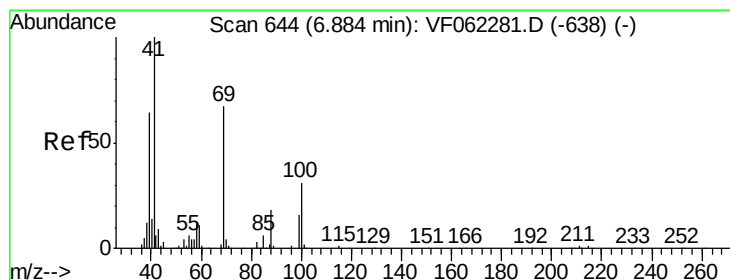
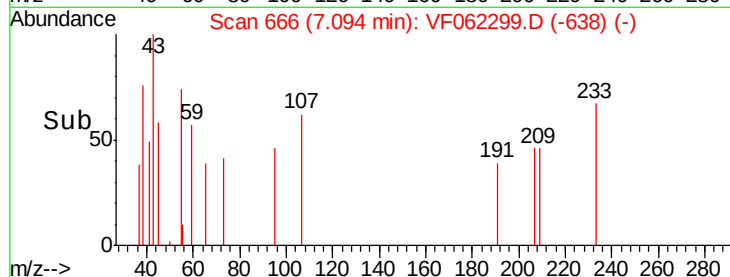
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



Time-->



#48

Methyl methacrylate

Concen: 3.863 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

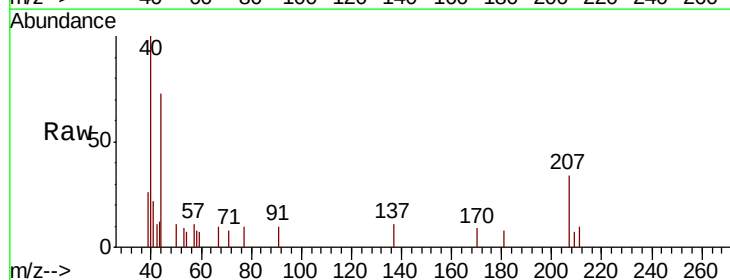
Tgt Ion: 41 Resp: 687

Ion Ratio Lower Upper

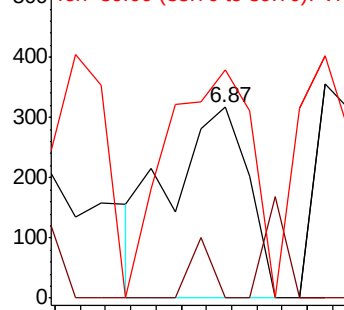
41 100

69 8.7 53.4 80.2#

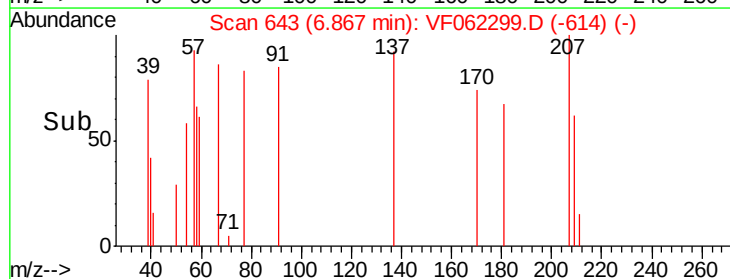
39 130.9 50.9 76.3#

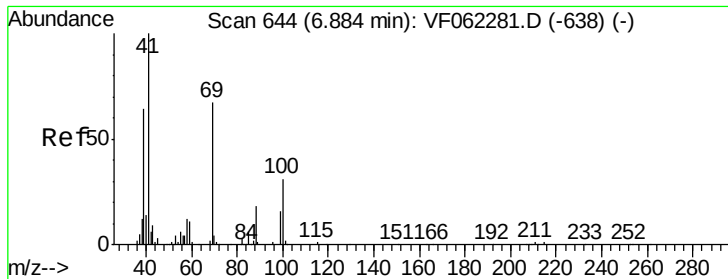


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0



Time-->





#49

1,4-Dioxane

Concen: 30.761 ug/l

RT: 6.68 min Scan# 624

Delta R.T. -0.20 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

C-3_042419RE

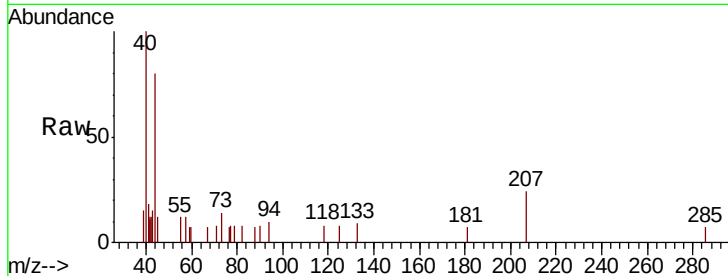
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 34.2 51.4#

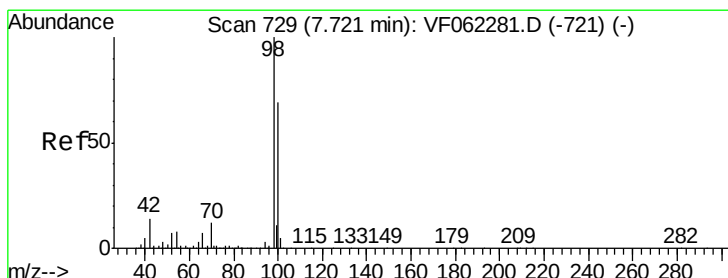
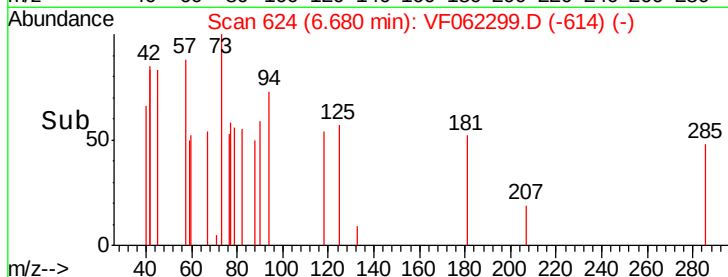
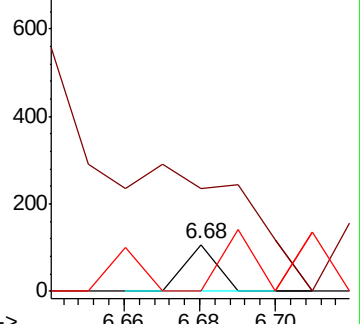
58 257.1 50.7 76.1#



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: 42.325 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.03 min

Lab File: VF062299.D

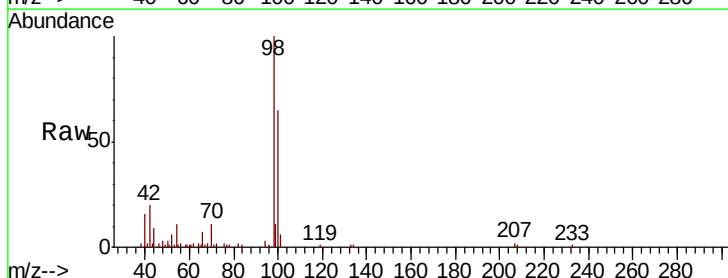
Acq: 25 Apr 2019 18:32

Tgt Ion: 98 Resp: 47945

Ion Ratio Lower Upper

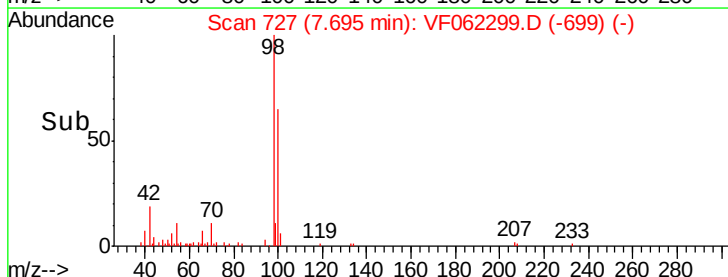
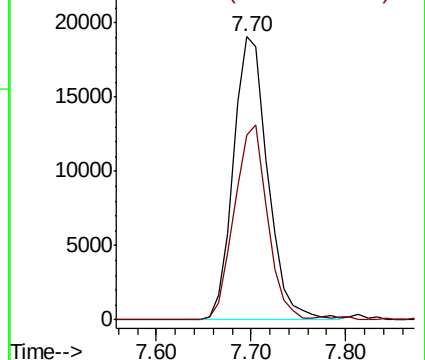
98 100

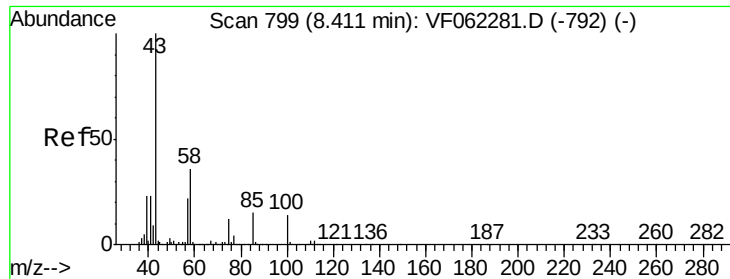
100 66.4 54.4 81.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

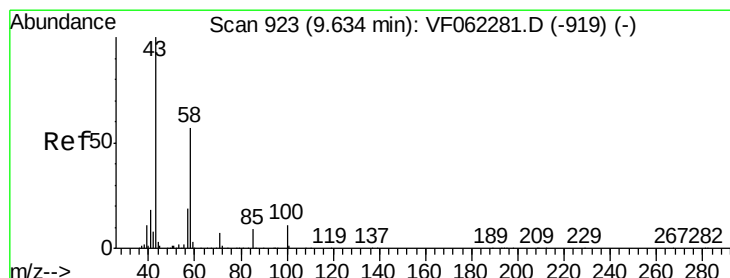
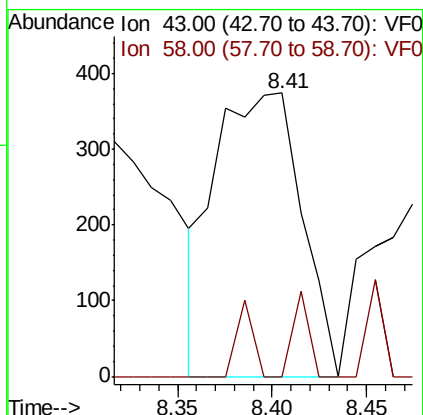
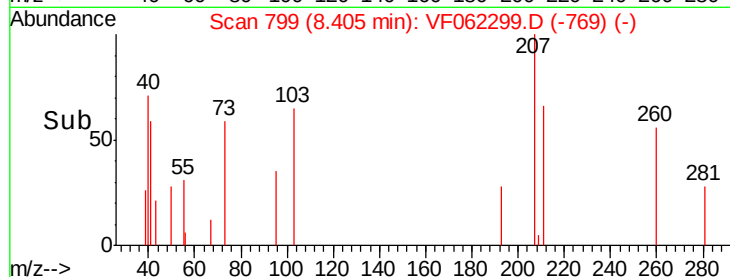
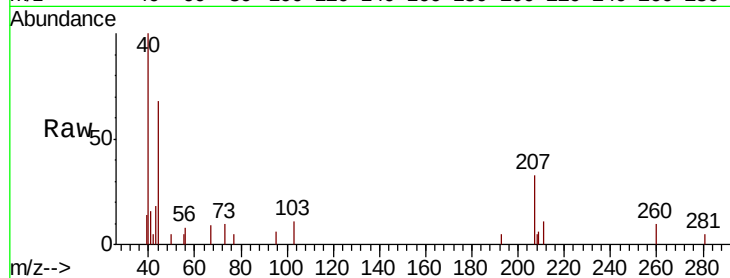




#51
4-Methyl-2-Pentanone
Concen: 6.200 ug/l
RT: 8.41 min Scan# 799
Delta R.T. -0.01 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

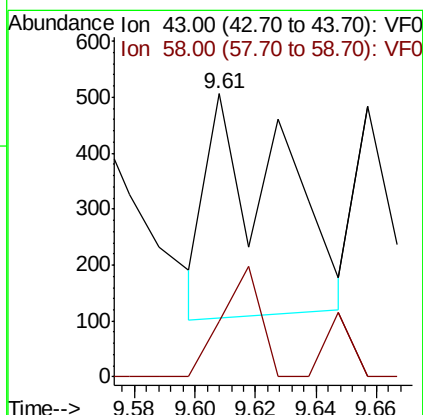
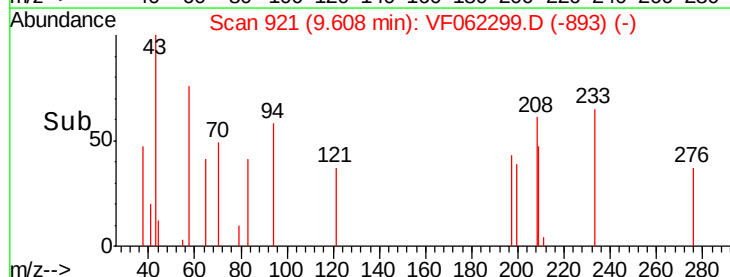
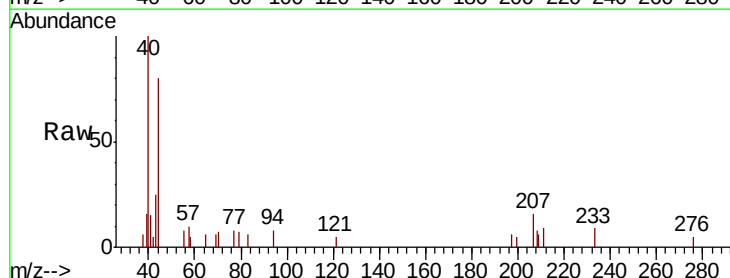
Instrument :
MSVOA_F
ClientSampleId :
C-3_042419RE

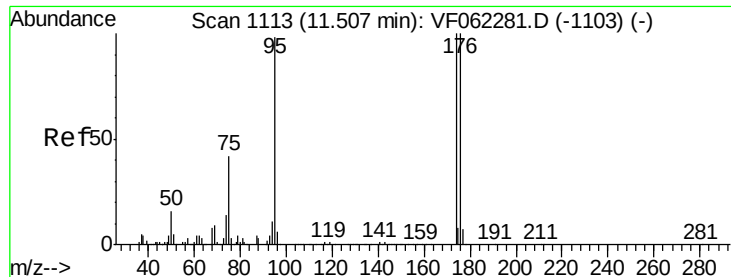
Tot Ion: 43 Resp: 1186
Ion Ratio Lower Upper
43 100
58 5.6 29.1 43.7#



#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.03 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

Tgt Ion: 43 Resp: 674
Ion Ratio Lower Upper
43 100
58 26.1 24.9 74.7





#62

4-Bromofluorobenzene

Concen: 27.300 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

C-3_042419RE

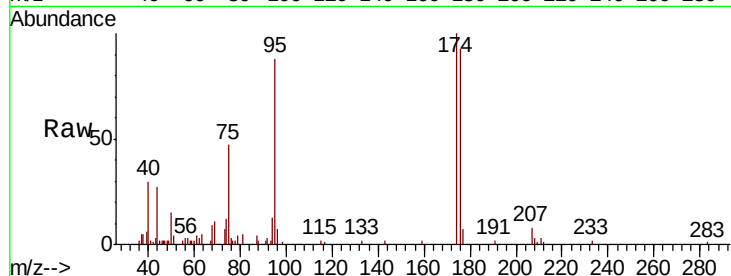
Tot Ion: 95 Resp: 12747

Ion Ratio Lower Upper

95 100

174 96.5 0.0 185.2

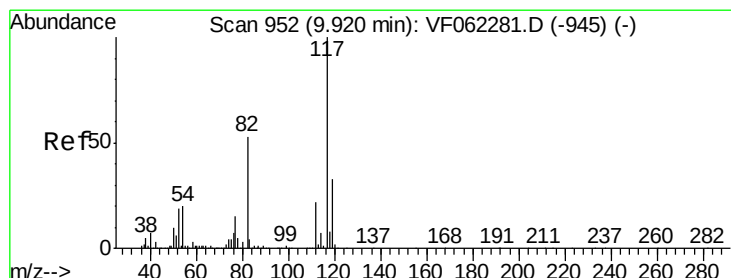
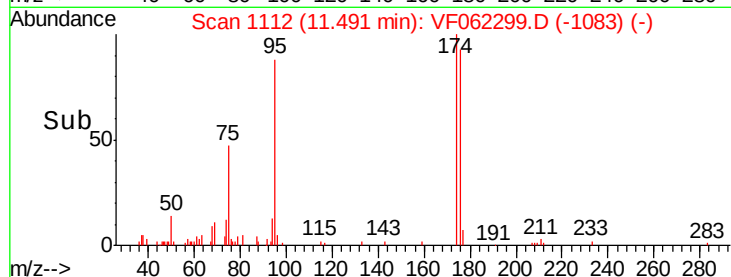
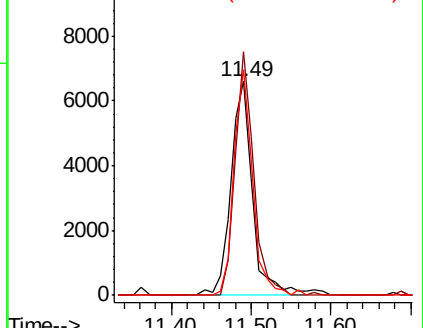
176 90.4 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

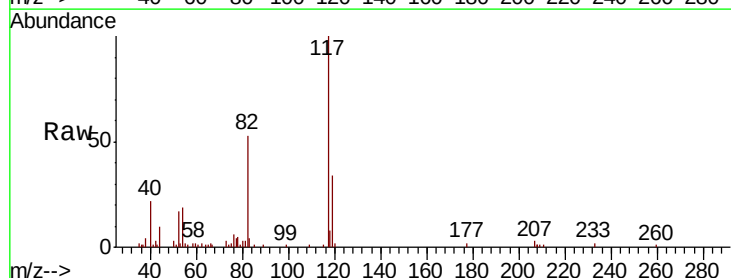
Tgt Ion: 117 Resp: 31982

Ion Ratio Lower Upper

117 100

82 52.6 42.6 64.0

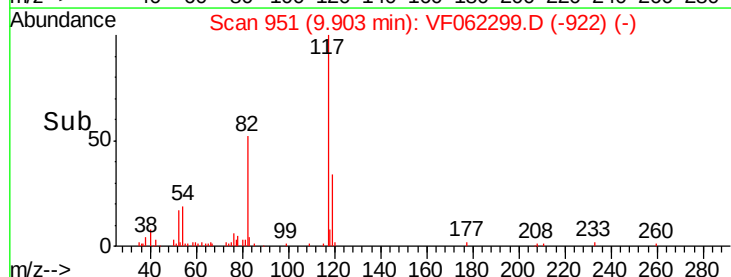
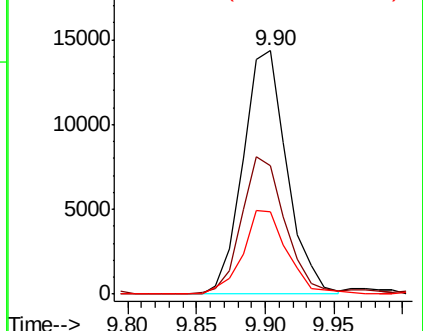
119 33.7 26.1 39.1

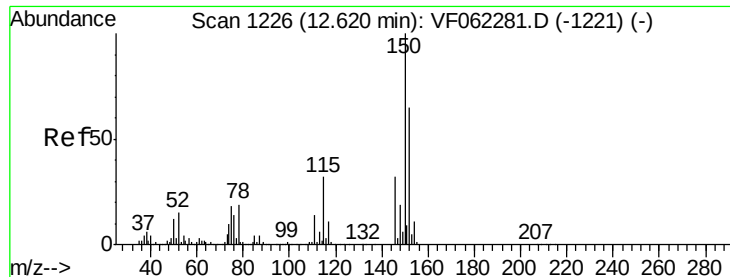


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



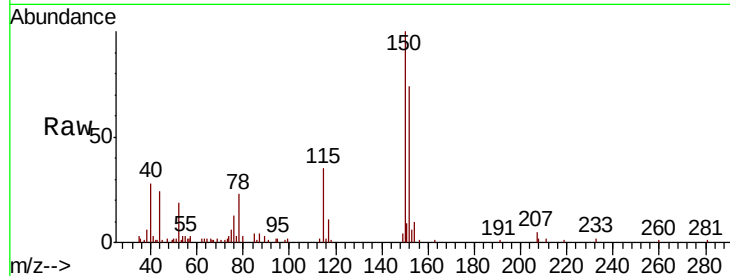


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

Instrument :
MSVOA_F
ClientSampleId :
C-3_042419RE

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.5	25.6	76.8
150	154.2	0.0	330.6

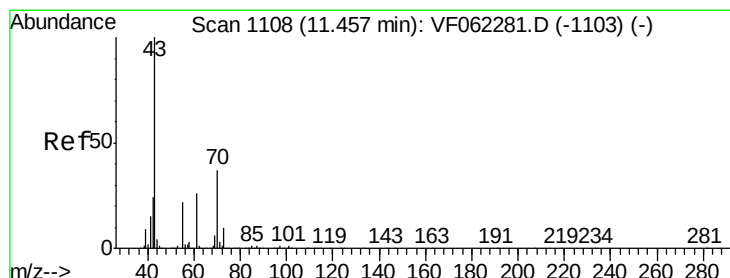
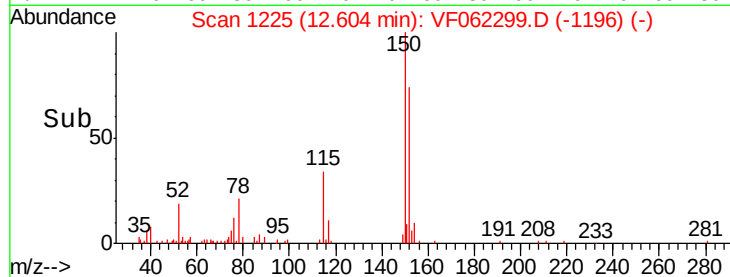
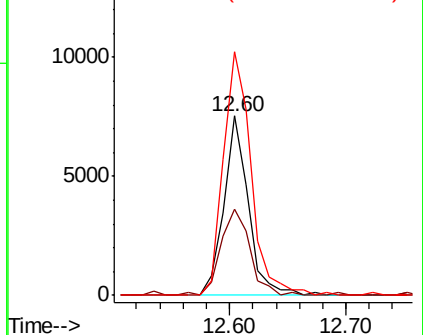


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

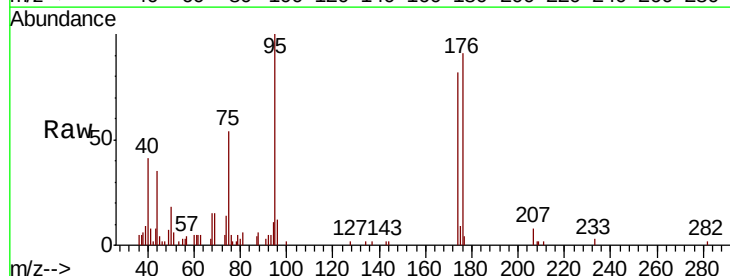
Ion 149.90 (149.60 to 150.60): V



#74

N-amyl acetate
Concen: 7.731 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. 0.02 min
Lab File: VF062299.D
Acq: 25 Apr 2019 18:32

Tgt Ion	Ratio	Lower	Upper
43	100		
70	19.9	27.8	41.8#
55	0.0	16.6	24.8#
61	53.4	20.0	30.0#



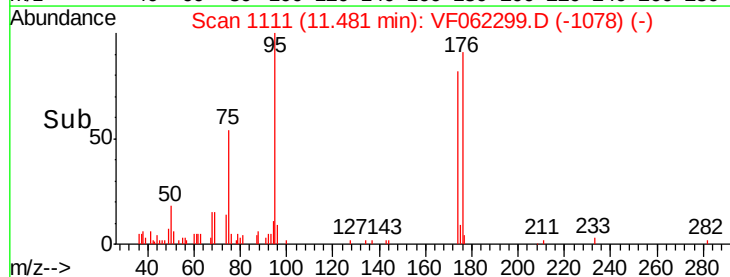
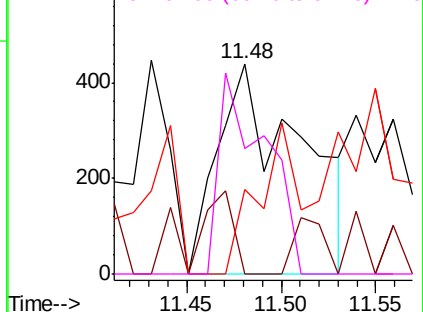
Abundance

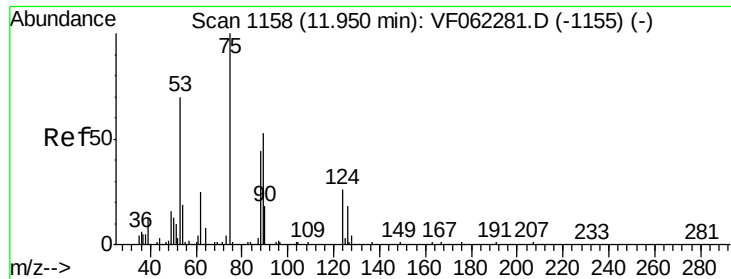
Ion 43.00 (42.70 to 43.70): VF0

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: 1.979 ug/l

RT: 11.99 min Scan# 1163

Delta R.T. 0.04 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

C-3_042419RE

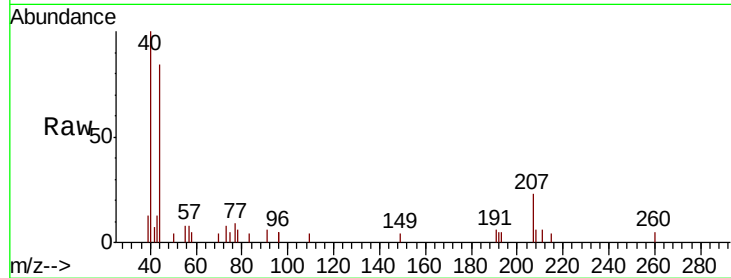
Tot Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

53 85.3 67.1 100.7

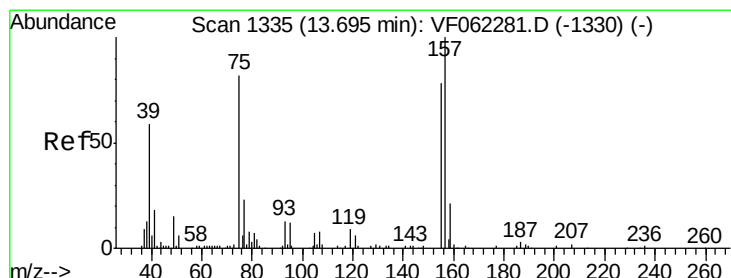
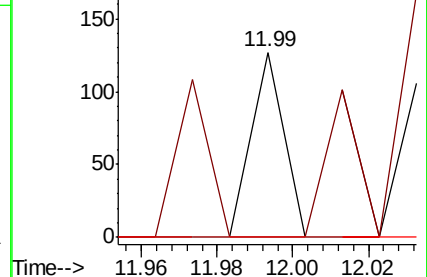
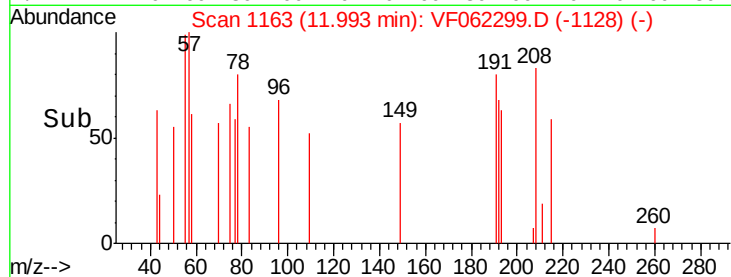
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.106 ug/l

RT: 13.75 min Scan# 1341

Delta R.T. 0.05 min

Lab File: VF062299.D

Acq: 25 Apr 2019 18:32

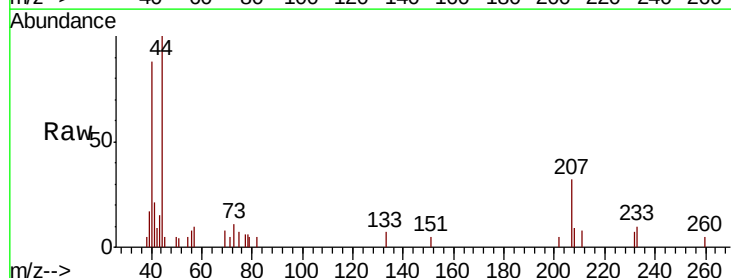
Tgt Ion: 75 Resp: 99

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

157 0.0 64.5 193.5#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

