

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051319\
 Data File : VF062576.D
 Acq On : 14 May 2019 8:42
 Operator : FY/SY
 Sample : K2757-04
 Misc : 6.16g/5mL/MSVOA_F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS009-0206-01

Quant Time: May 14 11:05:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.09	168	79283	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.80	114	95595	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	74372	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.63	152	30488	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	30643	40.90	ug/l	0.04
Spiked Amount			Recovery	=	81.80%	
35) Dibromofluoromethane	4.34	113	39034	51.25	ug/l	0.04
Spiked Amount			Recovery	=	102.50%	
50) Toluene-d8	7.74	98	69800	37.86	ug/l	0.04
Spiked Amount			Recovery	=	75.72%	
62) 4-Bromofluorobenzene	11.51	95	27952	33.61	ug/l	0.03
Spiked Amount			Recovery	=	67.22%	

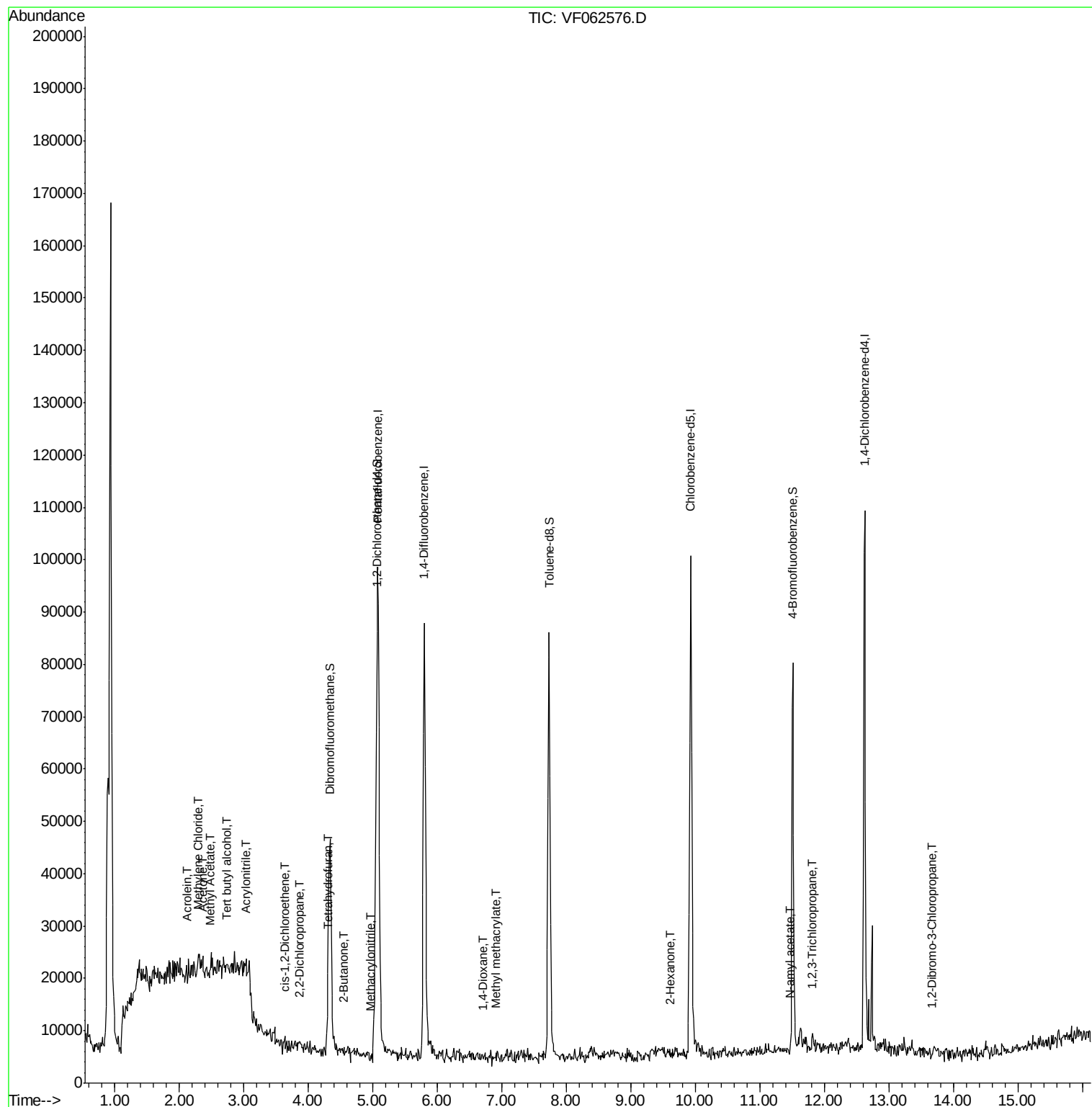
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	711	Below Cal		82
11) Tert butyl alcohol	2.75	59	1012	23.898	ug/l #	70
13) Acrolein	2.11	56	1348	33.190	ug/l #	44
15) Acrylonitrile	3.04	53	1062	13.240	ug/l #	26
16) Acetone	2.36	43	2756	18.183	ug/l #	77
18) Methyl Acetate	2.47	43	3986	12.043	ug/l	97
20) Methylene Chloride	2.30	84	1278	2.331	ug/l #	42
25) 2-Butanone	4.56	43	1151	6.045	ug/l #	60
26) 2,2-Dichloropropane	3.85	77	604	1.066	ug/l	81
27) cis-1,2-Dichloroethene	3.65	96	727	1.004	ug/l	7
29) Tetrahydrofuran	4.30	42	500	5.713	ug/l #	36
37) Ethyl Acetate	4.32	43	706	Below Cal	#	95
38) Carbon Tetrachloride	4.05	117	196	Below Cal	#	14
41) Methacrylonitrile	4.96	41	253	1.285	ug/l #	18
48) Methyl methacrylate	6.90	41	572	2.167	ug/l #	48
49) 1,4-Dioxane	6.70	88	64	10.646	ug/l #	1
59) 2-Hexanone	9.60	43	386	1.972	ug/l	86
74) N-amyl acetate	11.46	43	827	2.131	ug/l #	52
76) 1,2,3-Trichloropropane	11.82	75	282	1.306	ug/l #	100
92) 1,2-Dibromo-3-Chloropropan	13.67	75	67	1.057	ug/l #	52

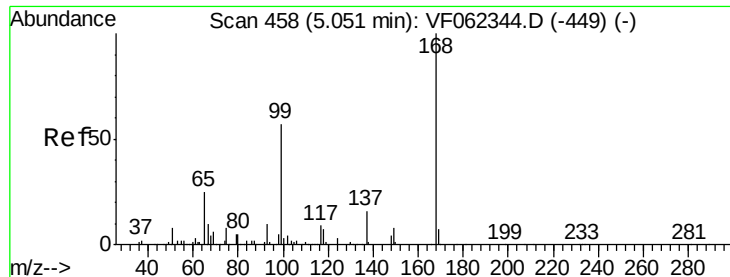
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF051319\
Data File : VF062576.D
Acq On : 14 May 2019 8:42
Operator : FY/SY
Sample : K2757-04
Misc : 6.16g/5mL/MSVOA_F/SOIL
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0206-01

Quant Time: May 14 11:05:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 462

Delta R.T. 0.04 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

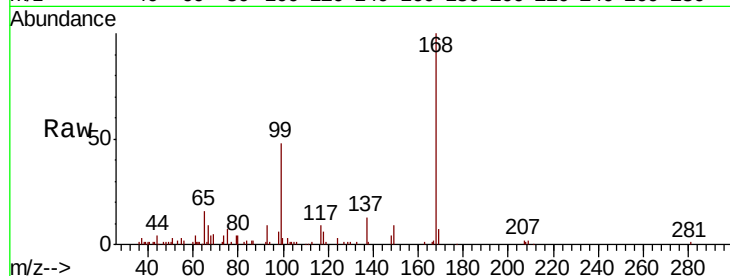
P021-SS009-0206-01

Tgt Ion: 168 Resp: 79283

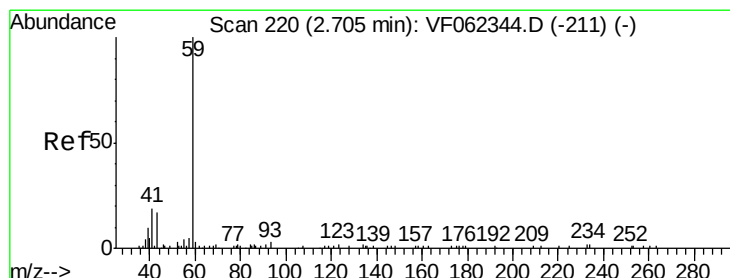
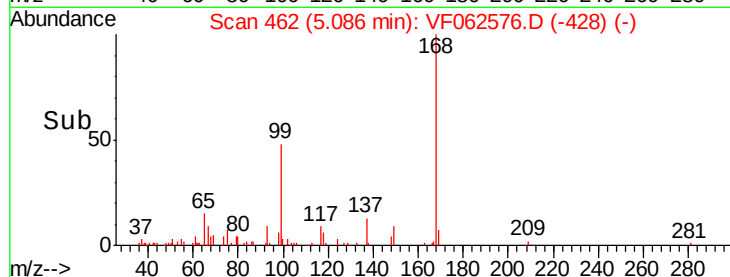
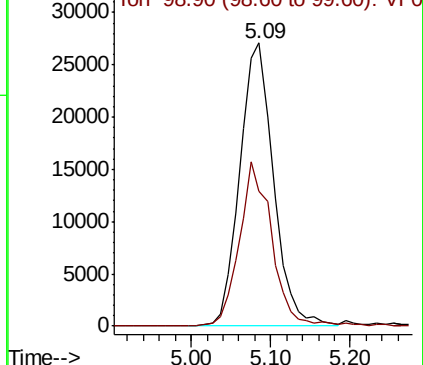
Ion Ratio Lower Upper

168 100

99 47.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#11

Tert butyl alcohol

Concen: 23.898 ug/l

RT: 2.75 min Scan# 225

Delta R.T. 0.05 min

Lab File: VF062576.D

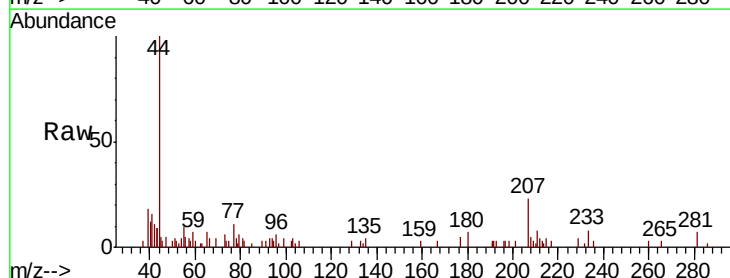
Acq: 14 May 2019 8:42

Tgt Ion: 59 Resp: 1012

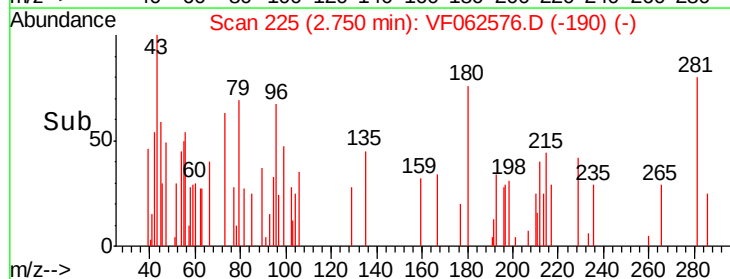
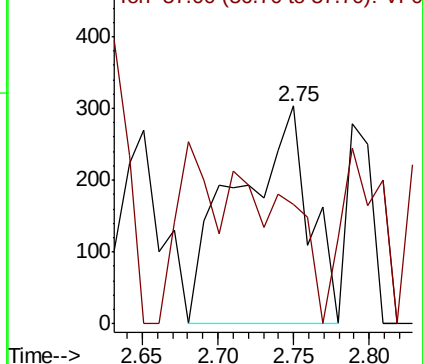
Ion Ratio Lower Upper

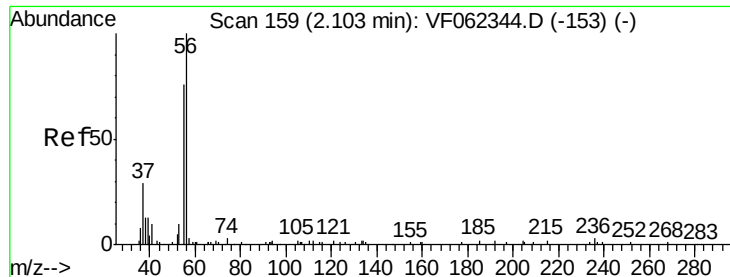
59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 33.190 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

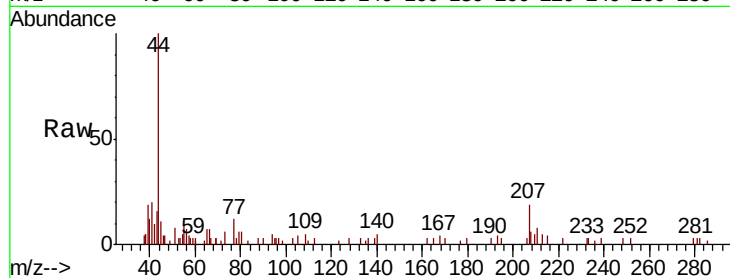
P021-SS009-0206-01

Tgt Ion: 56 Resp: 1348

Ion Ratio Lower Upper

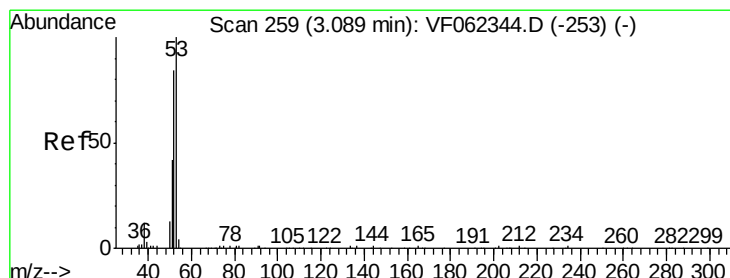
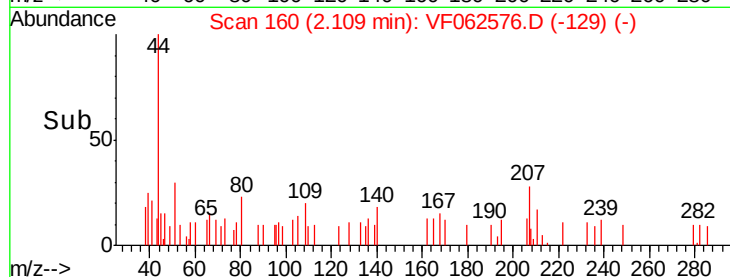
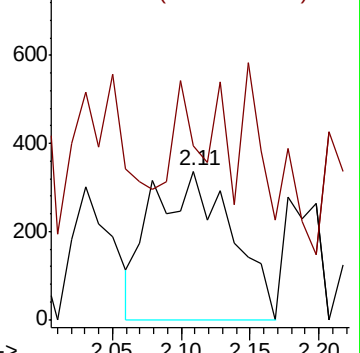
56 100

55 26.2 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 13.240 ug/l

RT: 3.04 min Scan# 254

Delta R.T. -0.05 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

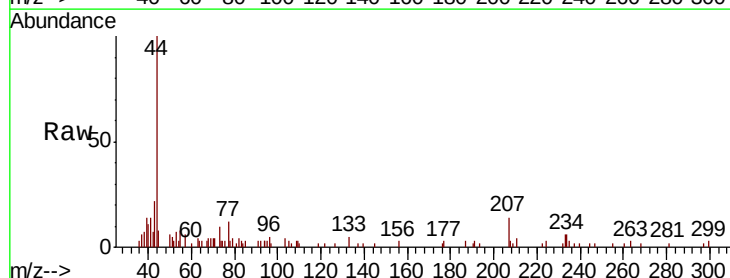
Tgt Ion: 53 Resp: 1062

Ion Ratio Lower Upper

53 100

52 23.4 77.2 115.8#

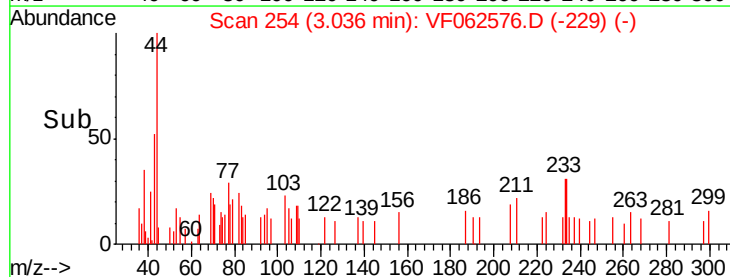
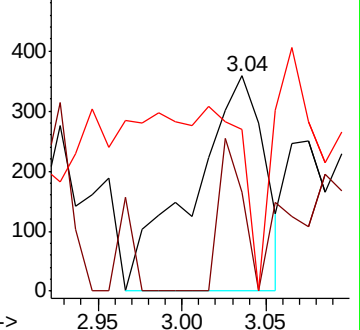
51 0.0 40.6 61.0#

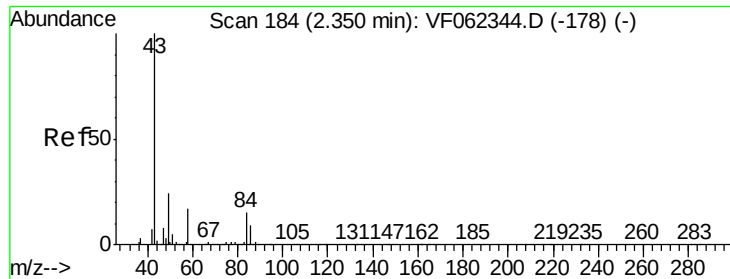


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 18.183 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

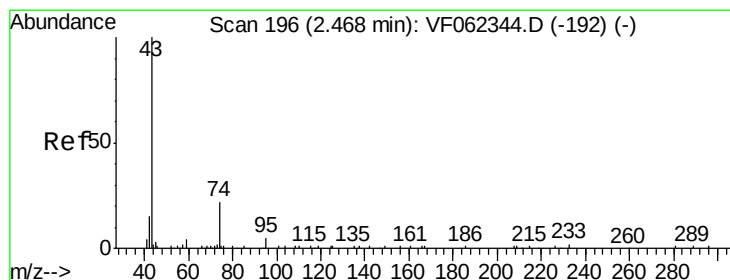
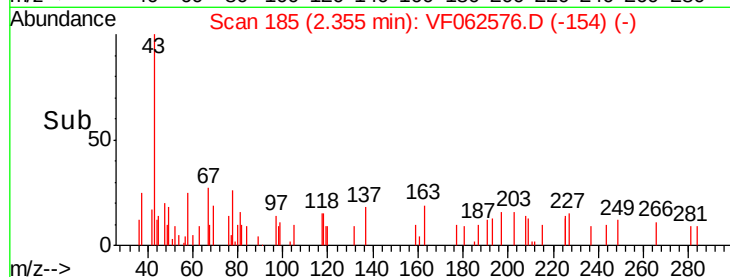
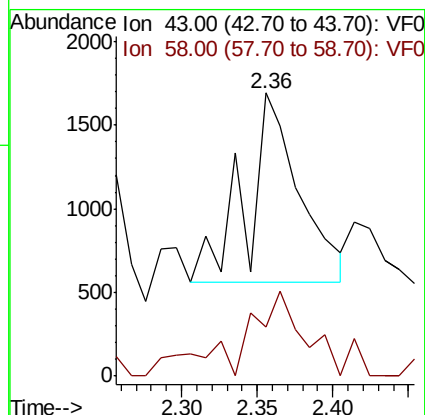
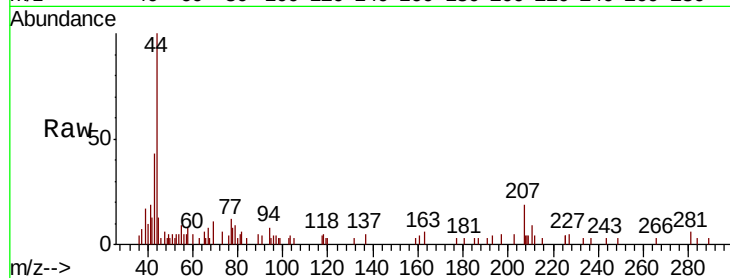
P021-SS009-0206-01

Tgt Ion: 43 Resp: 2756

Ion Ratio Lower Upper

43 100

58 26.2 13.1 19.7#



#18

Methyl Acetate

Concen: 12.043 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062576.D

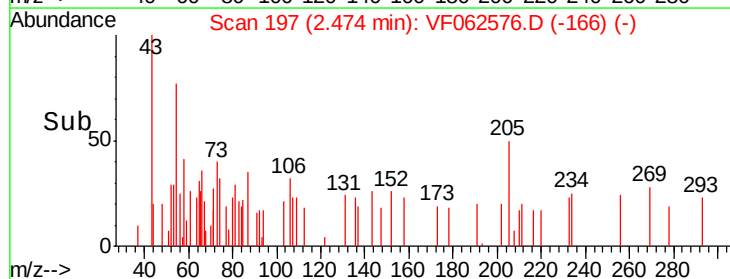
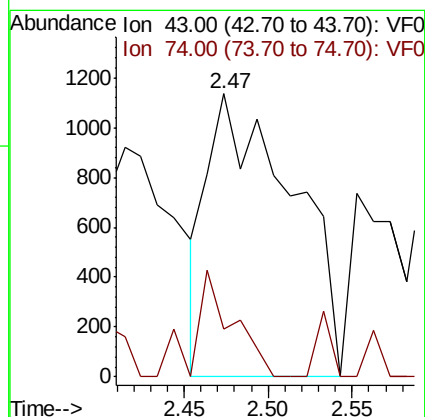
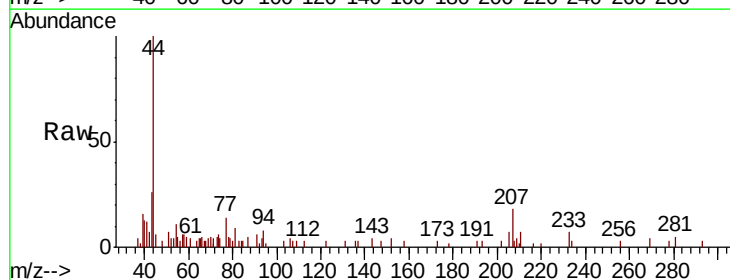
Acq: 14 May 2019 8:42

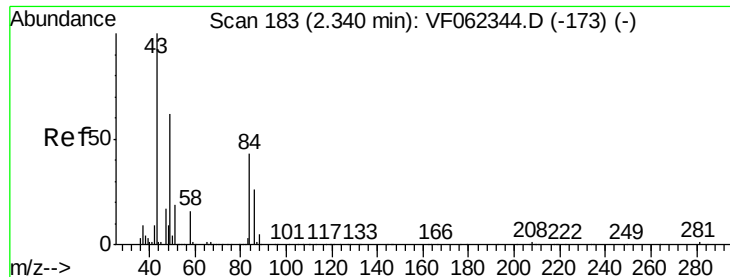
Tgt Ion: 43 Resp: 3986

Ion Ratio Lower Upper

43 100

74 17.2 15.0 22.4

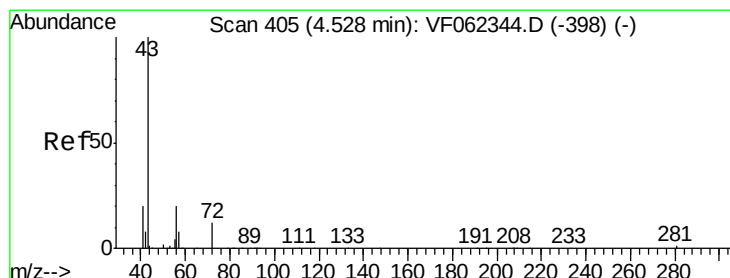
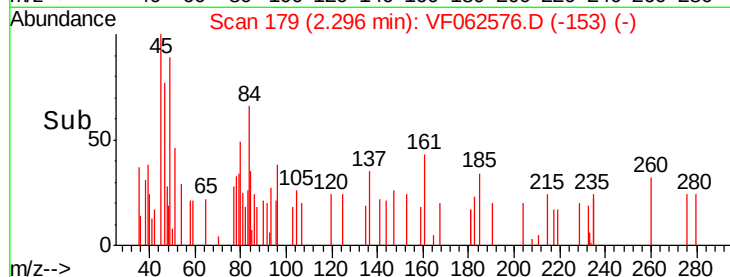
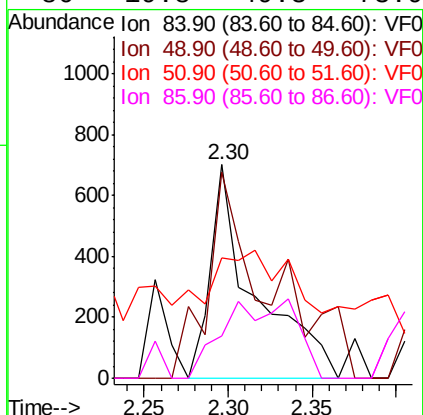
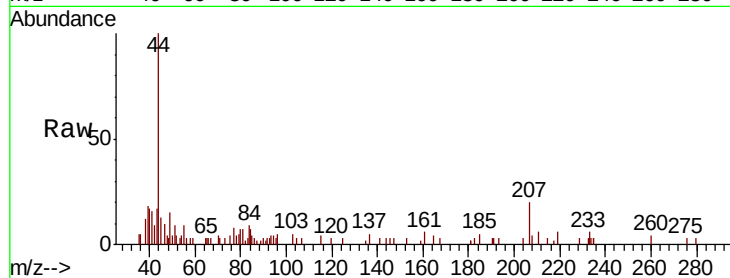




#20
Methylene Chloride
Concen: 2.331 ug/l
RT: 2.30 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

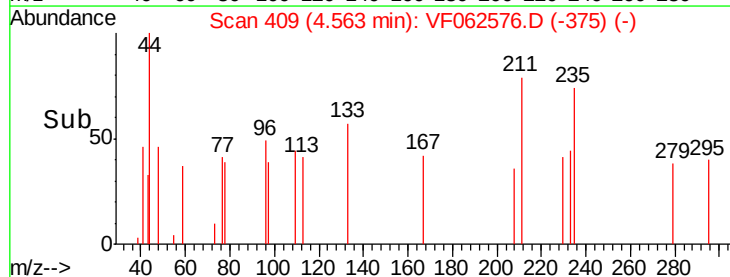
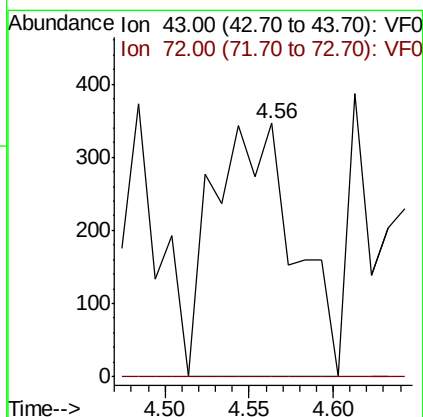
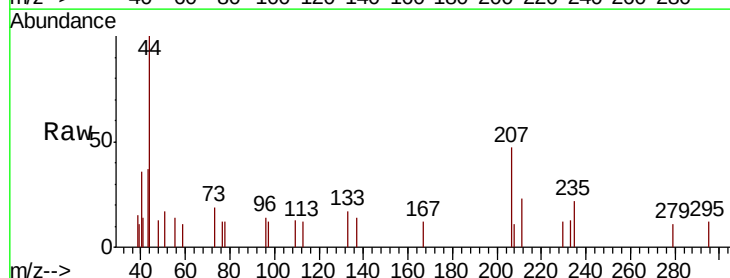
Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0206-01

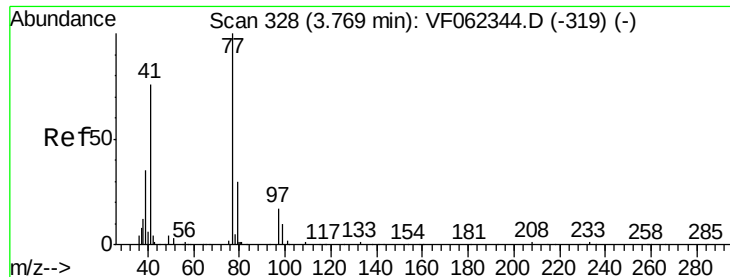
Tgt Ion:	84	Resp:	1278
Ion	Ratio	Lower	Upper
84	100		
49	63.1	117.5	176.3#
51	23.3	37.0	55.4#
86	19.8	49.3	73.9#



#25
2-Butanone
Concen: 6.045 ug/l
RT: 4.56 min Scan# 409
Delta R.T. 0.04 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Tgt Ion:	43	Resp:	1151
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.2	21.4#

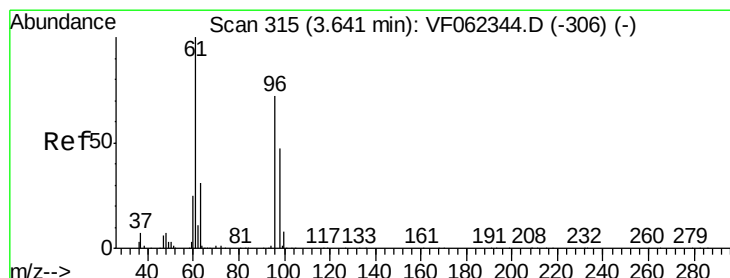
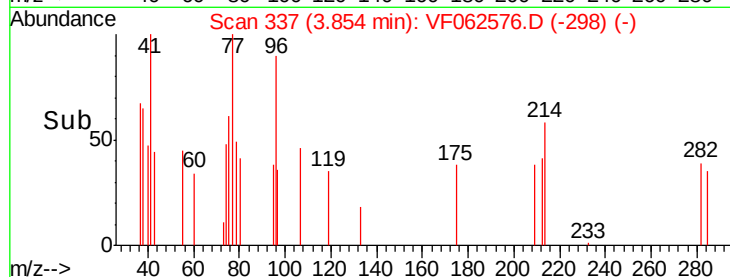
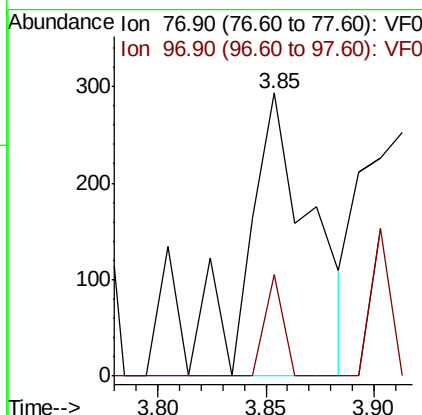
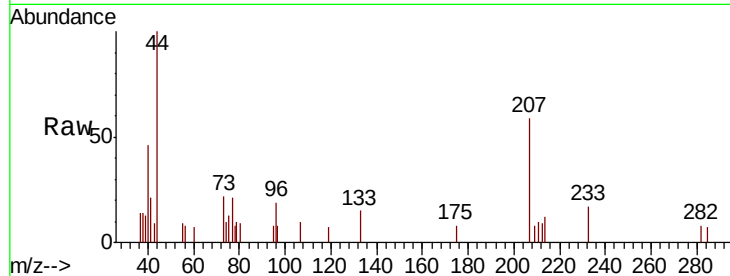




#26
 2,2-Dichloropropane
 Concen: 1.066 ug/l
 RT: 3.85 min Scan# 337
 Delta R.T. 0.08 min
 Lab File: VF062576.D
 Acq: 14 May 2019 8:42

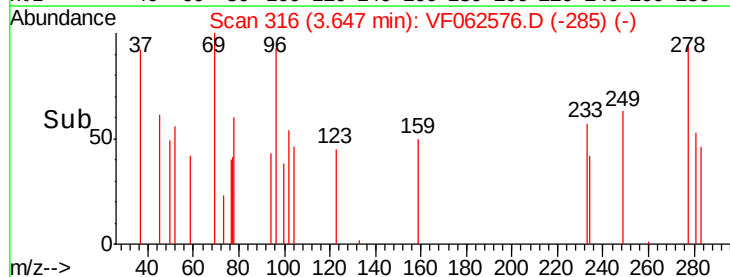
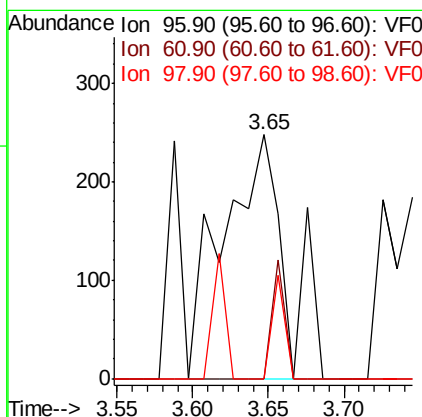
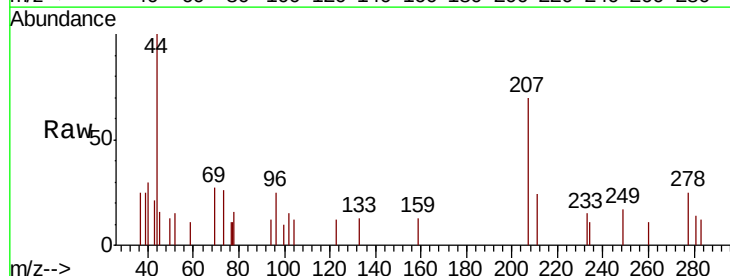
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS009-0206-01

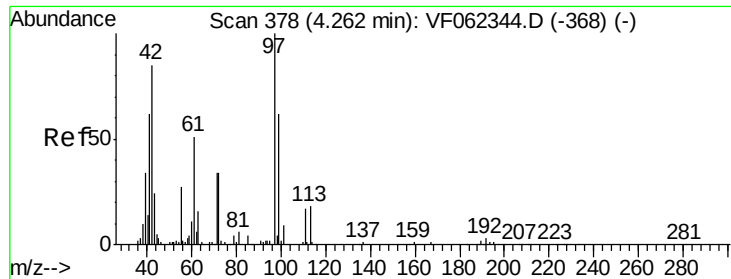
Tgt Ion: 77 Resp: 604
 Ion Ratio Lower Upper
 77 100
 97 10.3 9.5 28.5



#27
 cis-1,2-Dichloroethene
 Concen: 1.004 ug/l
 RT: 3.65 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: VF062576.D
 Acq: 14 May 2019 8:42

Tgt Ion: 96 Resp: 727
 Ion Ratio Lower Upper
 96 100
 61 9.8 0.0 263.0
 98 8.5 0.0 130.8





#29

Tetrahydrofuran

Concen: 5.713 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.04 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0206-01

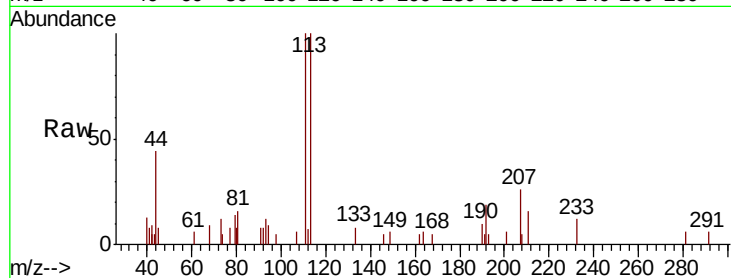
Tgt Ion: 42 Resp: 500

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

500

400

300

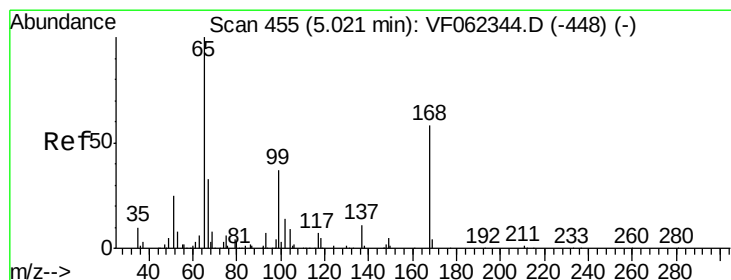
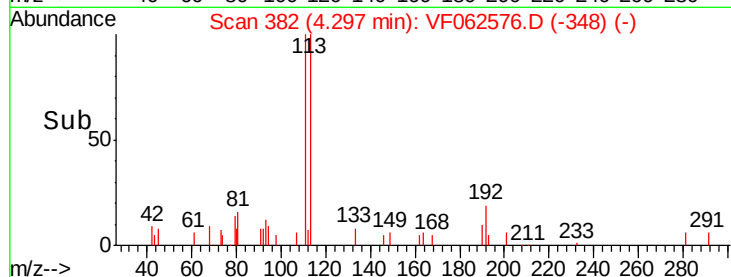
200

100

0

4.26 4.28 4.30 4.32 4.34

Time-->



#33

1,2-Dichloroethane-d4

Concen: 40.898 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.04 min

Lab File: VF062576.D

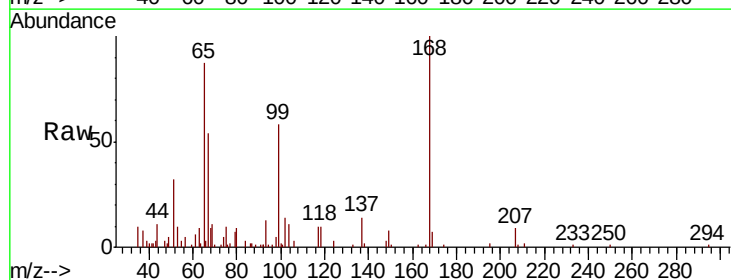
Acq: 14 May 2019 8:42

Tgt Ion: 65 Resp: 30643

Ion Ratio Lower Upper

65 100

67 49.5 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

10000

8000

6000

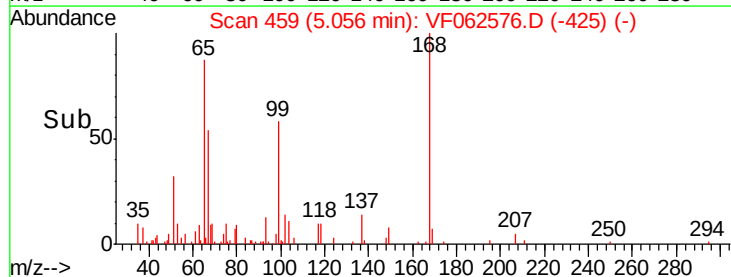
4000

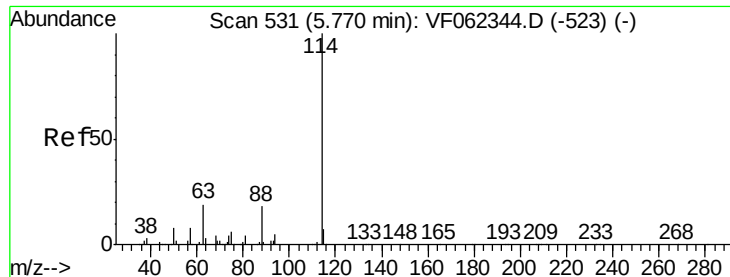
2000

0

5.00 5.10 5.20

Time-->

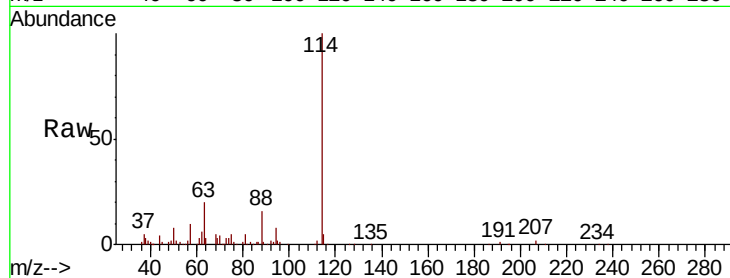




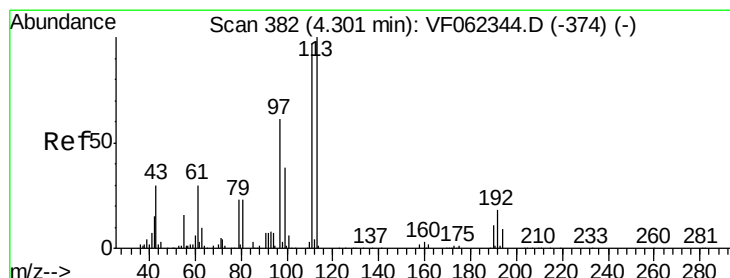
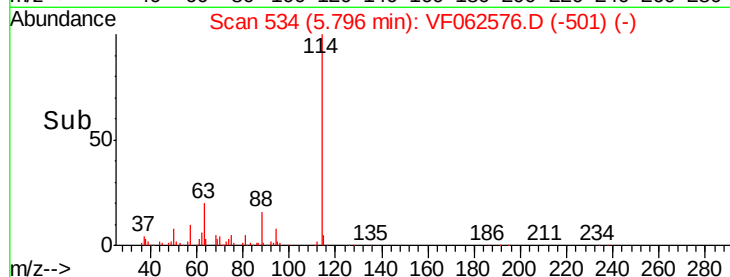
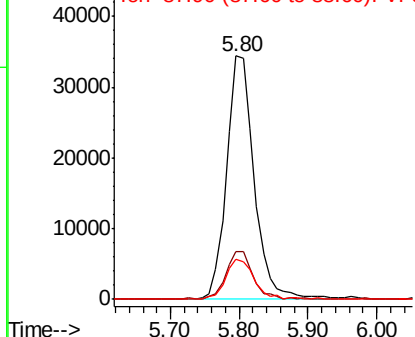
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062576.D
 Acq: 14 May 2019 8:42

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS009-0206-01

Tgt Ion:	114	Resp:	95595
Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	37.4
88	16.2	0.0	36.4

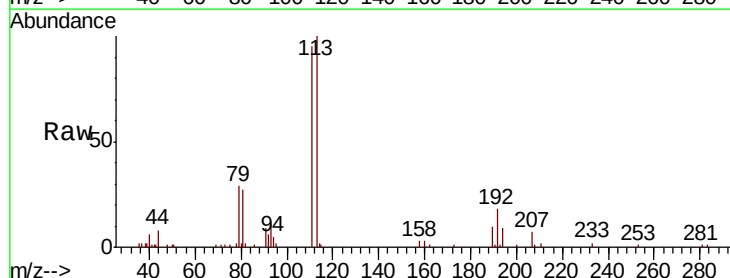


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 87.90 (87.60 to 88.60): VF0

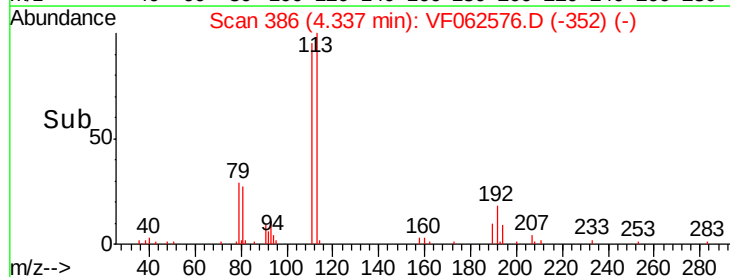
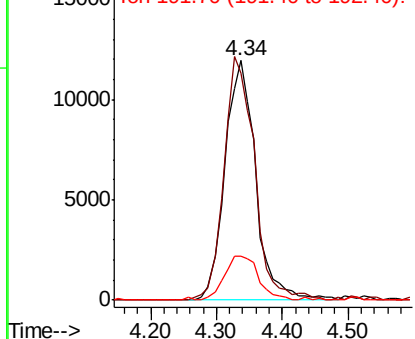


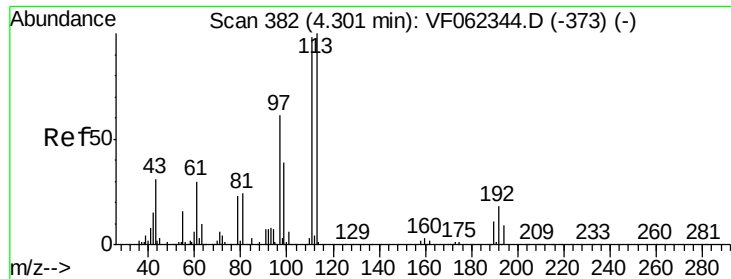
#35
 Dibromofluoromethane
 Concen: 51.253 ug/l
 RT: 4.34 min Scan# 386
 Delta R.T. 0.04 min
 Lab File: VF062576.D
 Acq: 14 May 2019 8:42

Tgt Ion:	113	Resp:	39034
Ion	Ratio	Lower	Upper
113	100		
111	100.8	79.4	119.0
192	20.3	16.0	24.0



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

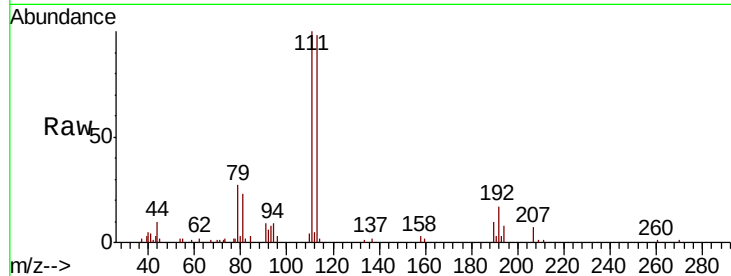




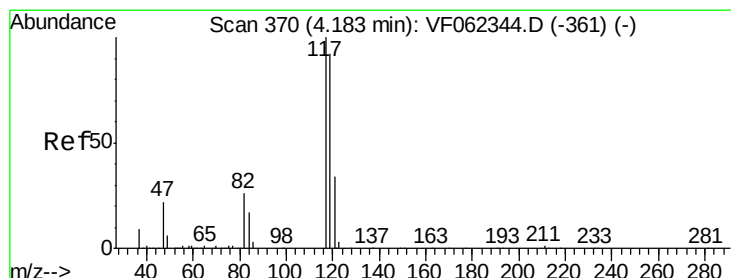
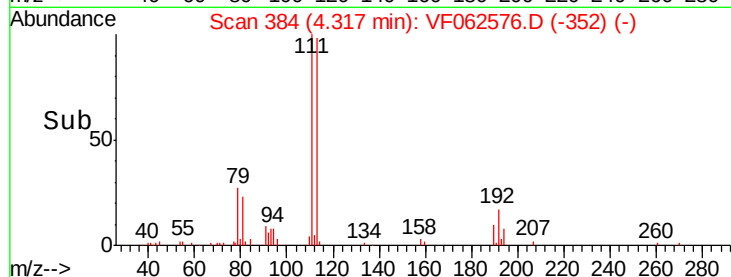
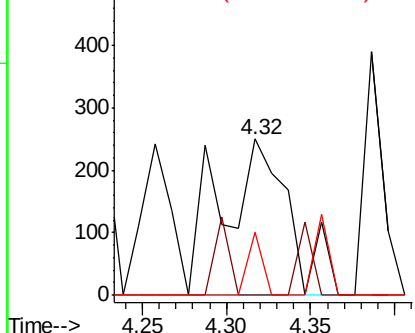
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0206-01

Tgt Ion: 43 Resp: 706
Ion Ratio Lower Upper
43 100
61 10.5 0.0 0.0#
70 8.5 8.2 12.2

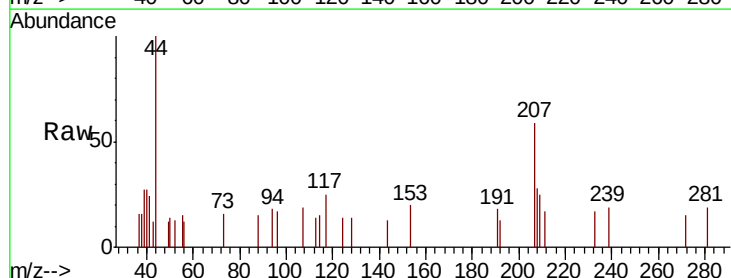


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

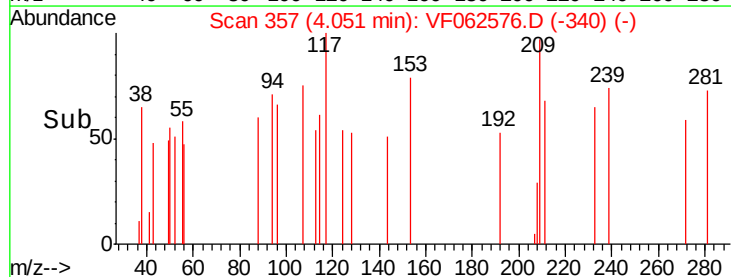
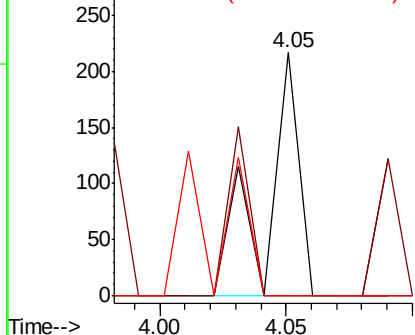


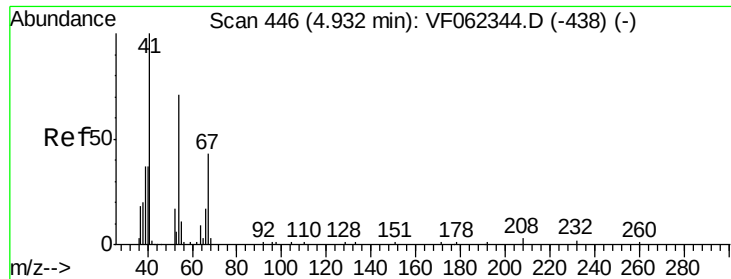
#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.05 min Scan# 357
Delta R.T. -0.13 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Tgt Ion: 117 Resp: 196
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

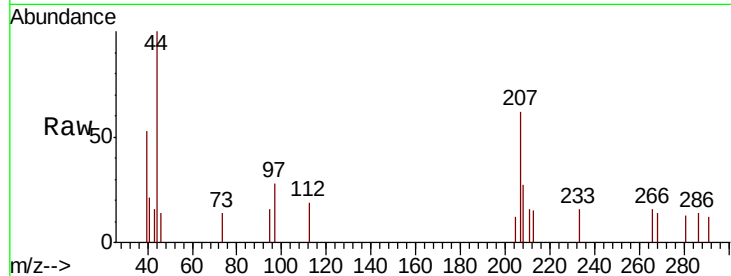




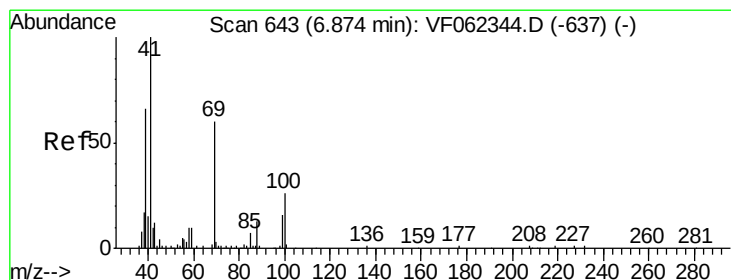
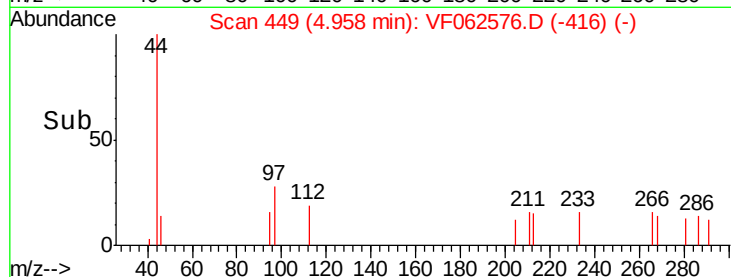
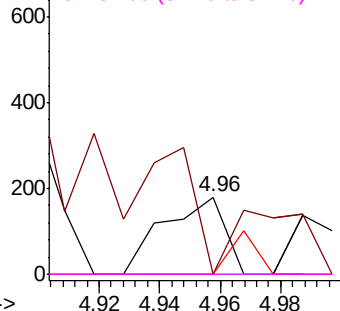
#41
Methacrylonitrile
Concen: 1.285 ug/l
RT: 4.96 min Scan# 449
Delta R.T. 0.03 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0206-01

Tgt Ion:	41	Resp:	253
Ion	Ratio	Lower	Upper
41	100		
39	0.0	54.3	81.5#
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#

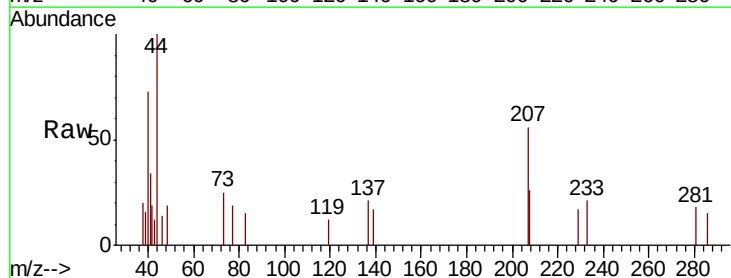


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

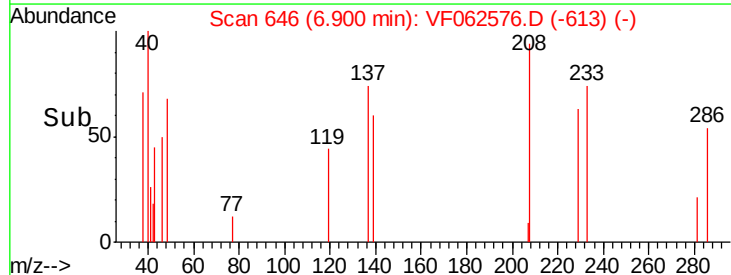
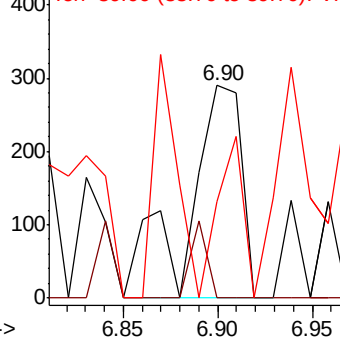


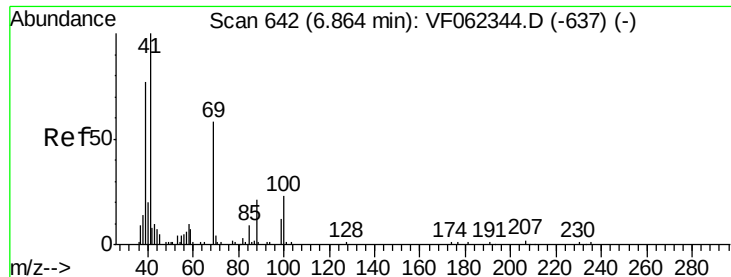
#48
Methyl methacrylate
Concen: 2.167 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.03 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Tgt Ion:	41	Resp:	572
Ion	Ratio	Lower	Upper
41	100		
69	10.8	48.6	72.8#
39	36.4	56.1	84.1#



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: 10.646 ug/l

RT: 6.70 min Scan# 626

Delta R.T. -0.16 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0206-01

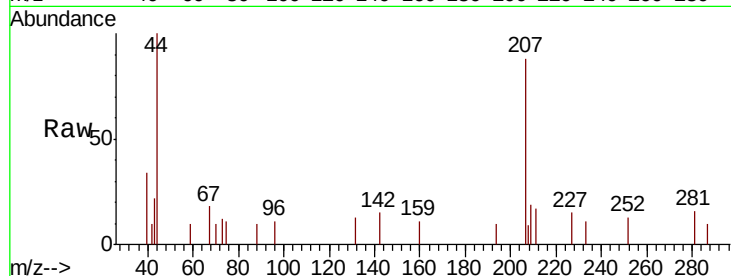
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 229.7 55.6 83.4#

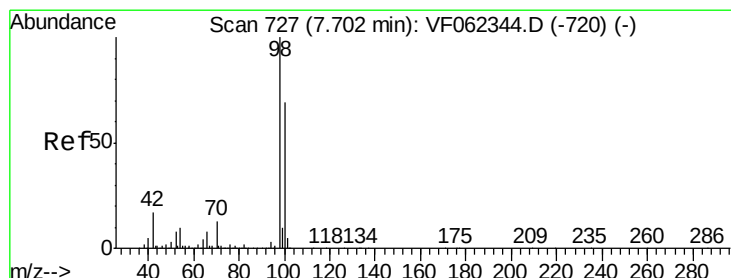
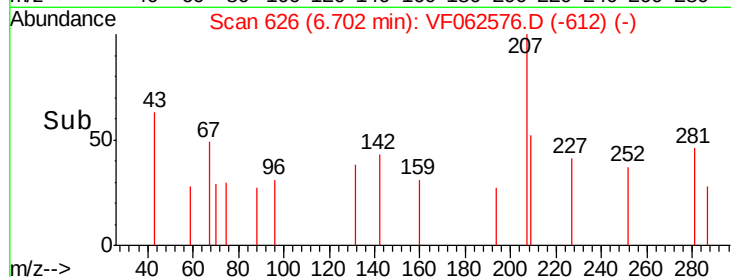
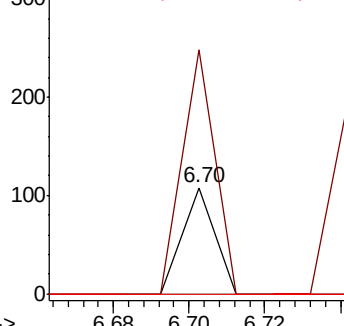
58 0.0 52.8 79.2#



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: 37.862 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.04 min

Lab File: VF062576.D

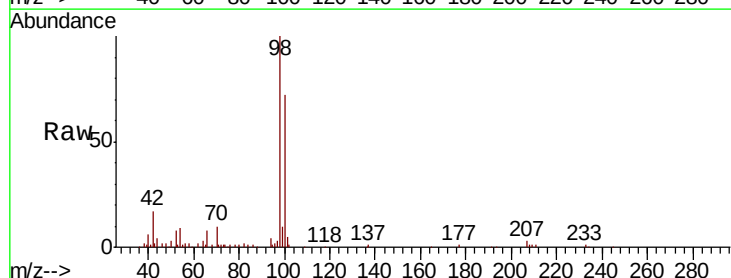
Acq: 14 May 2019 8:42

Tgt Ion: 98 Resp: 69800

Ion Ratio Lower Upper

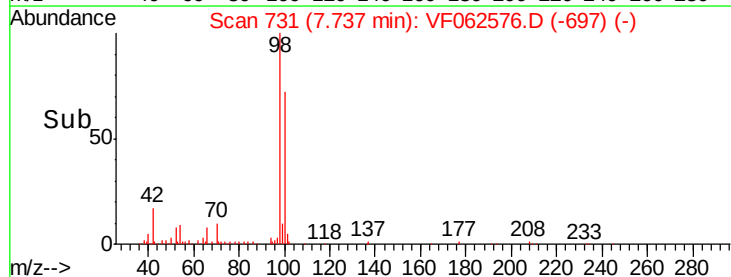
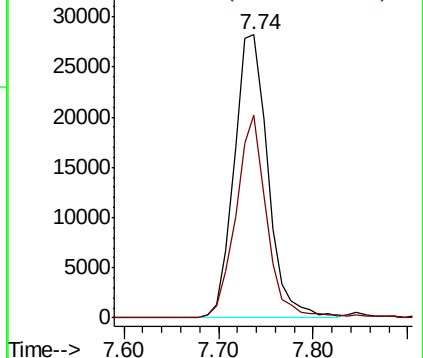
98 100

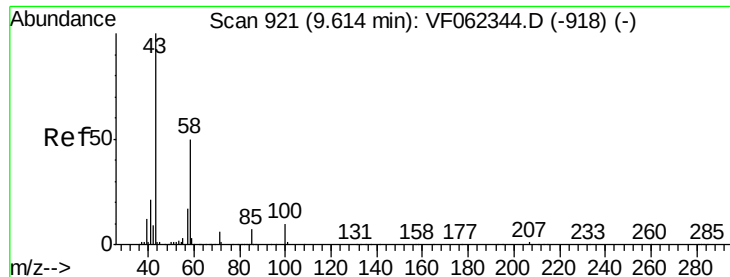
100 65.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#59

2-Hexanone

Concen: 1.972 ug/l

RT: 9.60 min Scan# 920

Delta R.T. -0.01 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

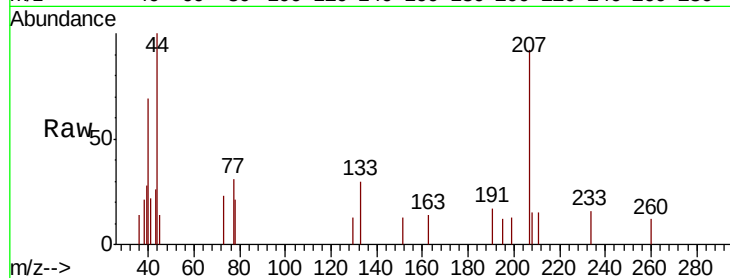
P021-SS009-0206-01

Tgt Ion: 43 Resp: 386

Ion Ratio Lower Upper

43 100

58 38.9 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

300

200

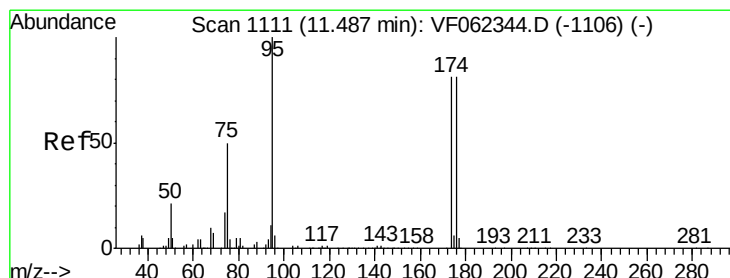
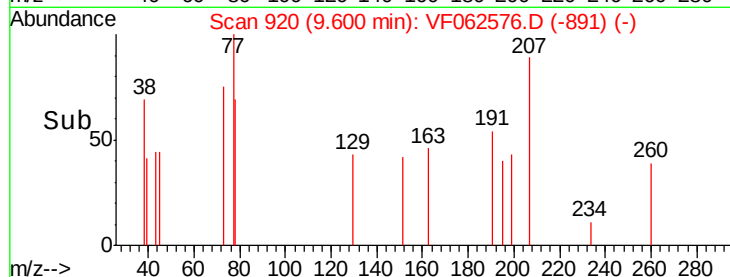
100

0

9.55

9.60

Time-->



#62

4-Bromofluorobenzene

Concen: 33.607 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

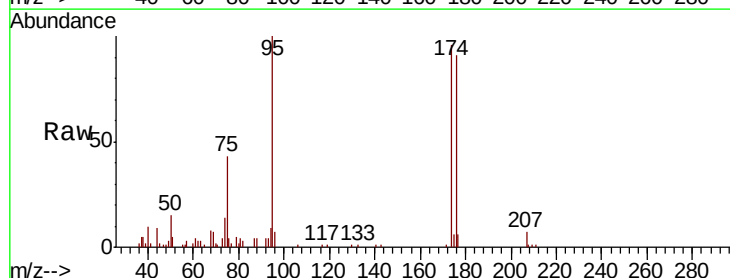
Tgt Ion: 95 Resp: 27952

Ion Ratio Lower Upper

95 100

174 92.8 0.0 191.8

176 86.8 0.0 193.2



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

20000

15000

10000

5000

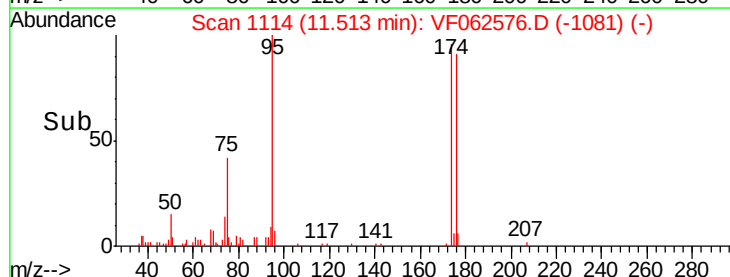
0

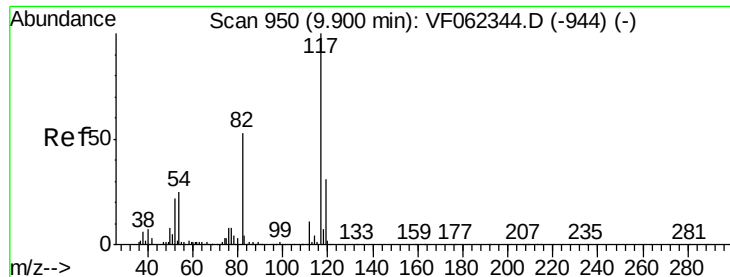
11.40

11.50

11.60

Time-->

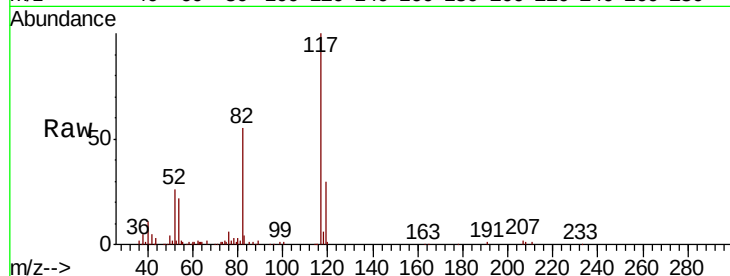




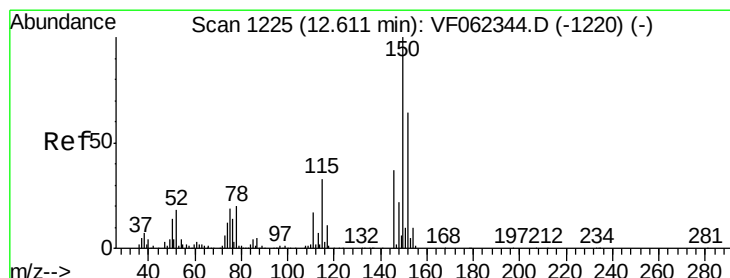
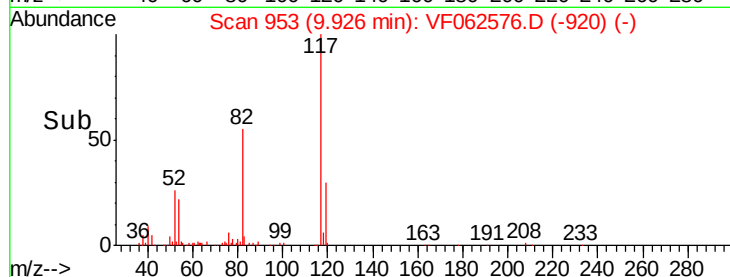
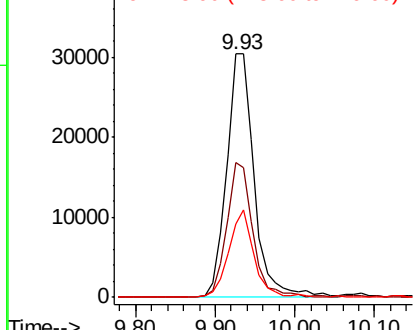
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Instrument :
MSVOA_F
ClientSampleId :
P021-SS009-0206-01

Tgt Ion:117 Resp: 74372
Ion Ratio Lower Upper
117 100
82 55.2 42.2 63.2
119 30.0 25.0 37.4

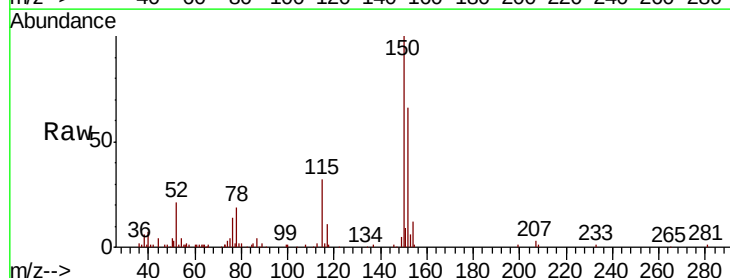


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

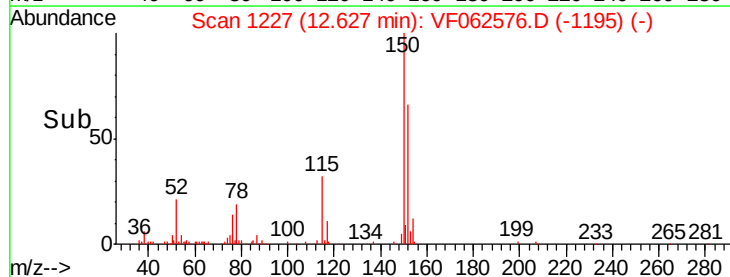
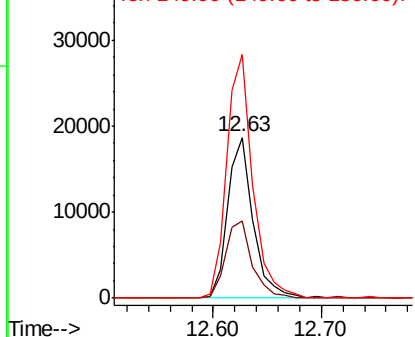


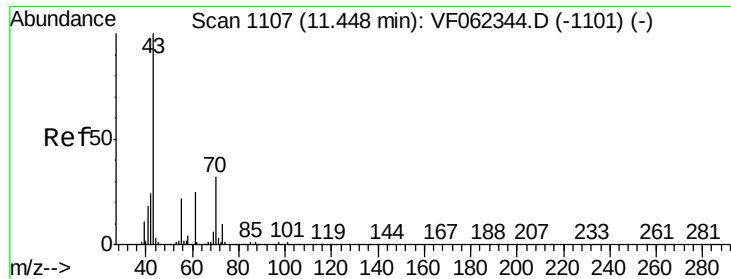
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.02 min
Lab File: VF062576.D
Acq: 14 May 2019 8:42

Tgt Ion:152 Resp: 30488
Ion Ratio Lower Upper
152 100
115 50.7 26.4 79.2
150 155.5 0.0 335.0



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-ethyl acetate

Concen: 2.131 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.02 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0206-01

Tgt Ion: 43 Resp: 827

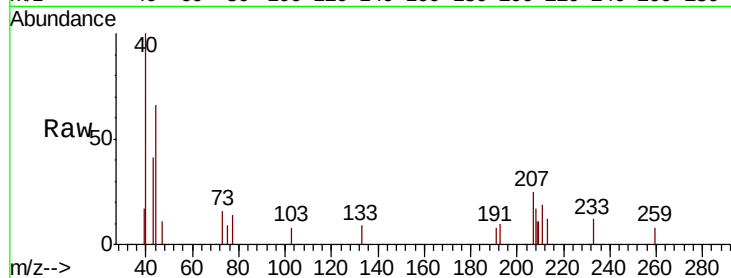
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 7.9 17.8 26.6#

61 0.0 20.2 30.2#

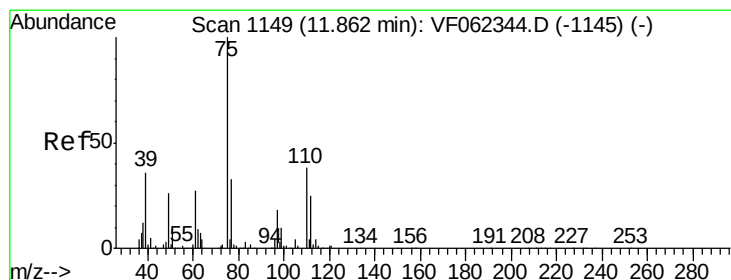
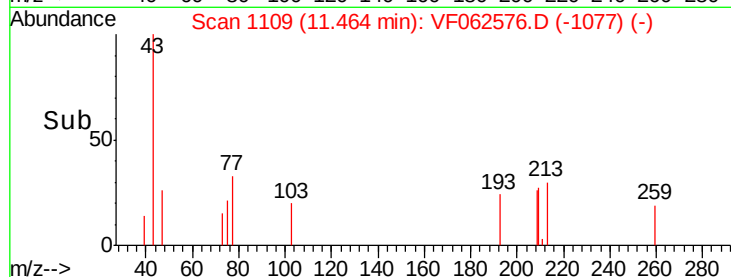
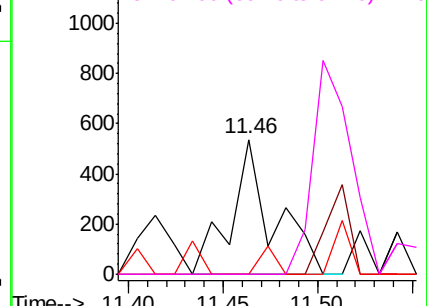


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#76

1,2,3-Trichloropropane

Concen: 1.306 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.04 min

Lab File: VF062576.D

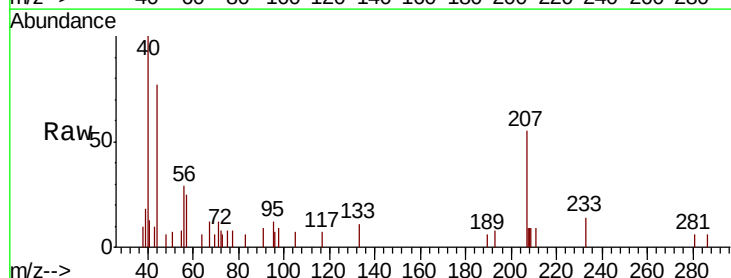
Acq: 14 May 2019 8:42

Tgt Ion: 75 Resp: 282

Ion Ratio Lower Upper

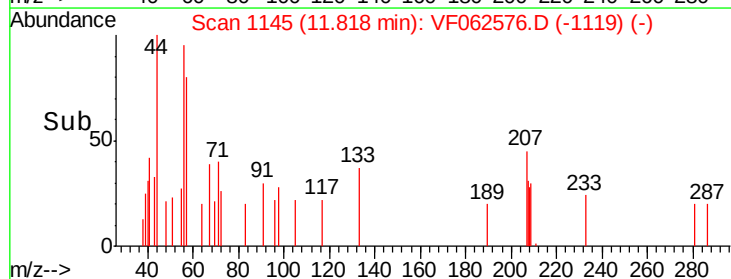
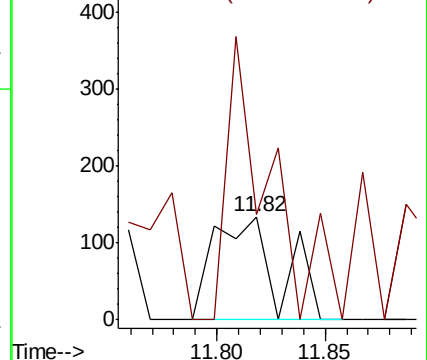
75 100

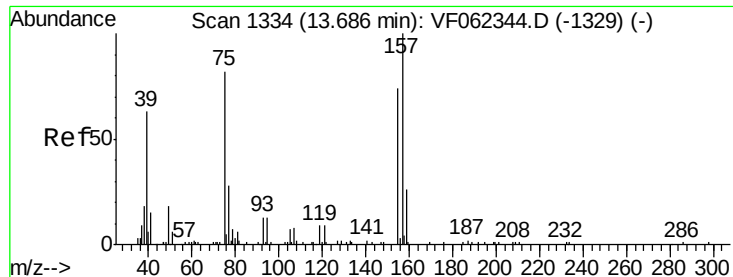
77 152.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.057 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VF062576.D

Acq: 14 May 2019 8:42

Instrument :

MSVOA_F

ClientSampleId :

P021-SS009-0206-01

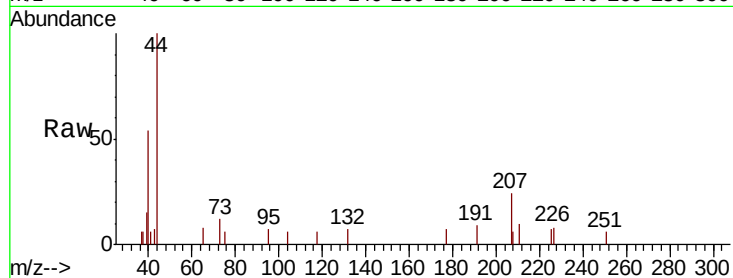
Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 143.3 67.3 201.8



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

