

Data File : VF062492.D
Acq On : 12 May 2019 7:34
Operator : FY/SY
Sample : K2756-09
Misc : 5.79/5mL/MSVOA_F/SOIL
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

Quant Time: May 12 10:07:20 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	5.07	168	23413	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	17297	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	7724	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	1738	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	3803	17.19	ug/l	0.02
Spiked Amount	50.000		Recovery	=	34.38%	
35) Dibromofluoromethane	4.32	113	5763	41.82	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.64%	
50) Toluene-d8	7.72	98	10661	31.96	ug/l	0.02
Spiked Amount	50.000		Recovery	=	63.92%	
62) 4-Bromofluorobenzene	11.50	95	1942	12.90	ug/l	0.02
Spiked Amount	50.000		Recovery	=	25.80%	

Target Compounds					Qvalue	
3) Chloromethane	1.13	50	795	4.449	ug/l #	42
5) Bromomethane	1.42	94	119	Below Cal	#	58
6) Chloroethane	1.62	64	96	1.071	ug/l #	41
8) Diethyl Ether	1.76	74	61	1.090	ug/l #	1
11) Tert butyl alcohol	2.72	59	147	11.755	ug/l #	22
12) 1,1-Dichloroethene	1.86	96	209	1.164	ug/l #	13
14) Allyl chloride	2.17	41	720	4.541	ug/l #	83
15) Acrylonitrile	3.13	53	191	8.063	ug/l #	56
16) Acetone	2.38	43	374	8.356	ug/l #	62
18) Methyl Acetate	2.47	43	568	4.082	ug/l #	90
19) Methyl tert-butyl Ether	2.52	73	608	1.641	ug/l #	61
20) Methylene Chloride	2.36	84	251	1.550	ug/l #	1
21) trans-1,2-Dichloroethene	2.45	96	197	1.152	ug/l #	1
23) Vinyl Acetate	3.37	43	276	1.250	ug/l #	79
25) 2-Butanone	4.54	43	583	10.368	ug/l #	60
26) 2,2-Dichloropropane	3.74	77	593	3.545	ug/l	88
29) Tetrahydrofuran	4.25	42	160	6.191	ug/l #	36
37) Ethyl Acetate	4.28	43	167	Below Cal	#	73
38) Carbon Tetrachloride	4.20	117	60	Below Cal	#	14
41) Methacrylonitrile	4.92	41	240	6.736	ug/l #	12
42) 1,2-Dichloroethane	5.08	62	296	2.163	ug/l #	1
43) Isopropyl Acetate	7.12	43	79	1.169	ug/l #	8
45) 1,2-Dichloropropane	6.37	63	143	1.930	ug/l #	43
46) Dibromomethane	6.08	93	93	1.513	ug/l #	31
48) Methyl methacrylate	6.89	41	369	7.726	ug/l #	17
49) 1,4-Dioxane	6.80	88	63	116.710	ug/l #	16
51) 4-Methyl-2-Pentanone	8.45	43	210	4.101	ug/l #	40
53) t-1,3-Dichloropropene	8.39	75	248	2.134	ug/l #	43
54) cis-1,3-Dichloropropene	7.43	75	223	1.649	ug/l #	71
56) Ethyl methacrylate	8.83	69	71	1.050	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.35	63	64	3.147	ug/l #	42
59) 2-Hexanone	9.70	43	348	9.825	ug/l	81
64) Tetrachloroethene	8.29	164	63	1.005	ug/l #	1
68) m/p-Xylenes	10.24	106	85	1.029	ug/l #	1

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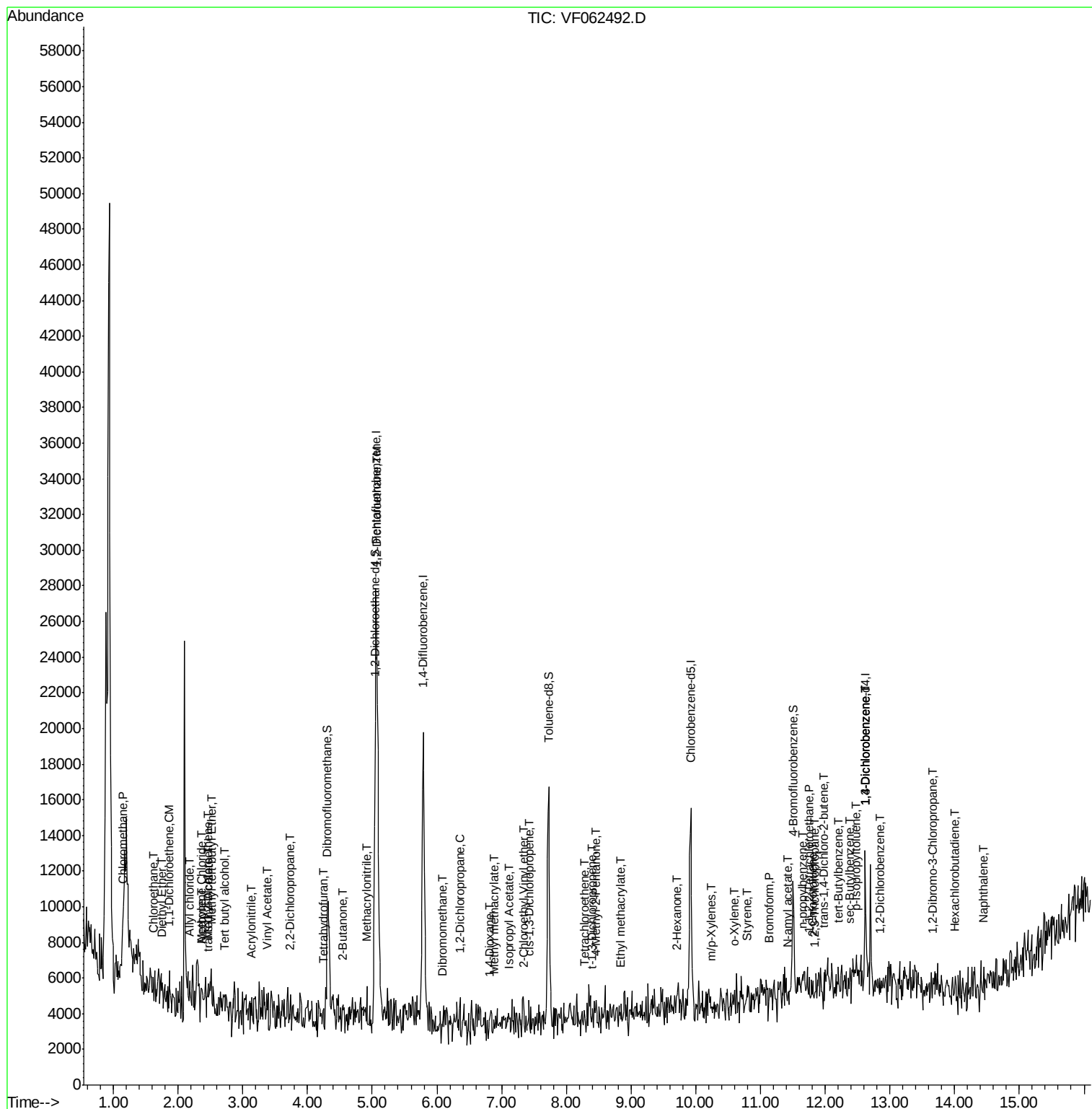
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) o-Xylene	10.59	106	122	1.367	ug/l #	1
70) Styrene	10.79	104	138	1.032	ug/l #	28
71) Bromoform	11.13	173	61	1.727	ug/l #	29
74) N-amyl acetate	11.43	43	467	21.112	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	11.75	83	61	3.781	ug/l #	62
76) 1,2,3-Trichloropropane	11.83	75	140	11.374	ug/l #	100
78) n-propylbenzene	11.65	91	128	1.167	ug/l #	35
79) 2-Chlorotoluene	11.81	91	76	1.114	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.98	75	139	30.044	ug/l #	5
83) tert-Butylbenzene	12.20	119	145	1.528	ug/l #	62
85) sec-Butylbenzene	12.38	105	288	2.493	ug/l	94
86) p-Isopropyltoluene	12.49	119	228	2.124	ug/l #	70
87) 1,3-Dichlorobenzene	12.62	146	64	1.296	ug/l #	25
88) 1,4-Dichlorobenzene	12.62	146	64	1.343	ug/l #	25
91) 1,2-Dichlorobenzene	12.83	146	59	1.234	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.66	75	105	29.052	ug/l #	1
94) Hexachlorobutadiene	14.02	225	62	1.940	ug/l #	18
95) Naphthalene	14.46	128	72	1.117	ug/l #	69

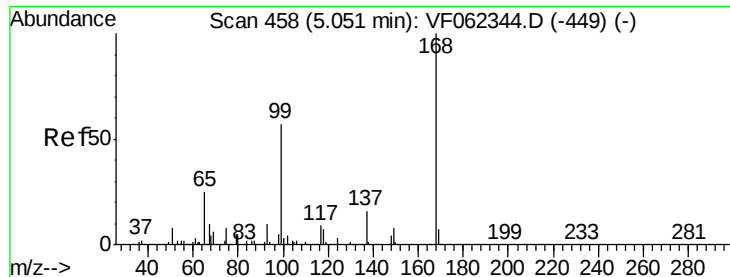
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

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Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

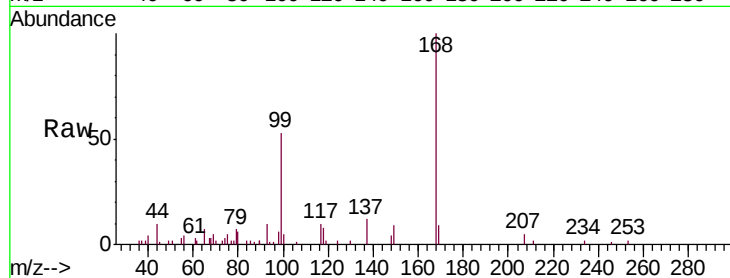
P021-SS006-1218-01

Tgt Ion:168 Resp: 23413

Ion Ratio Lower Upper

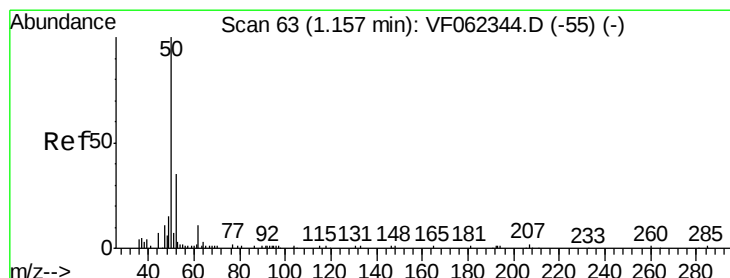
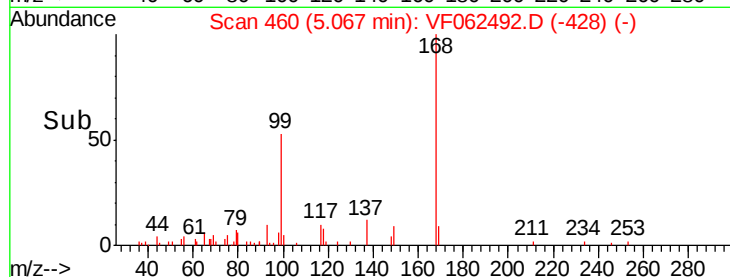
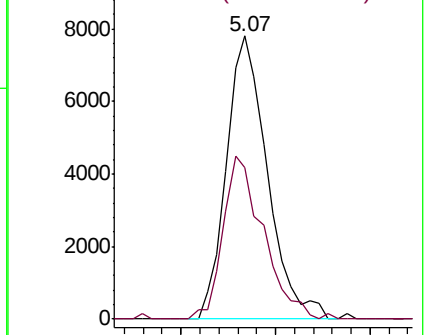
168 100

99 53.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#3

Chloromethane

Concen: 4.449 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.02 min

Lab File: VF062492.D

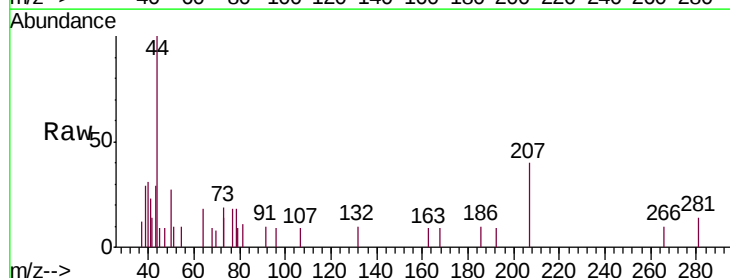
Acq: 12 May 2019 7:34

Tgt Ion: 50 Resp: 795

Ion Ratio Lower Upper

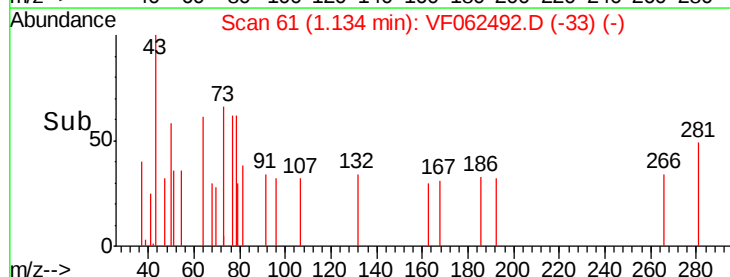
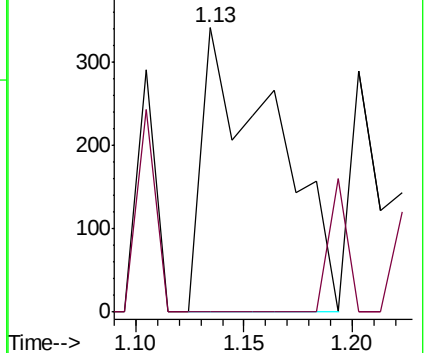
50 100

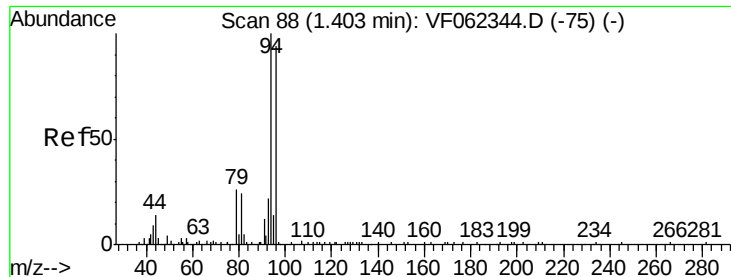
52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

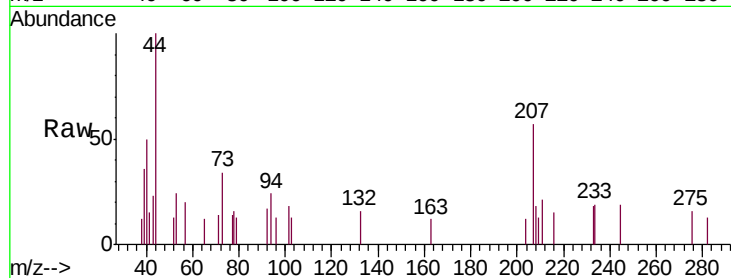
P021-SS006-1218-01

Tgt Ion: 94 Resp: 119

Ion Ratio Lower Upper

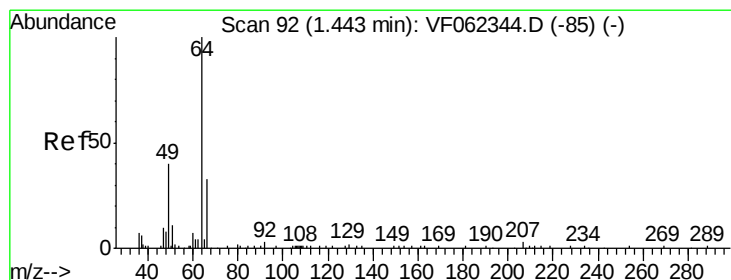
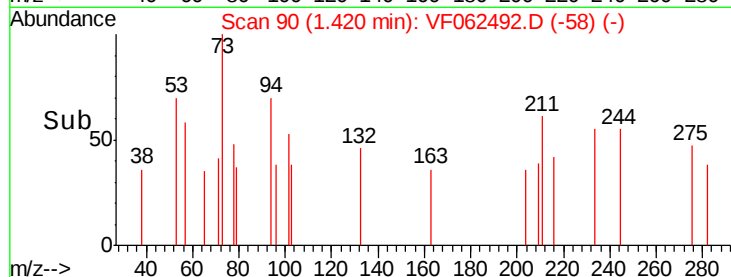
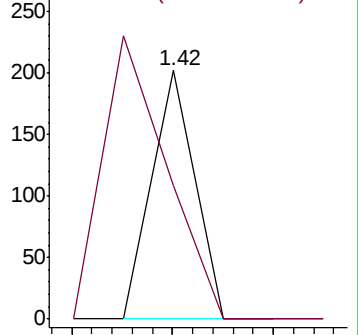
94 100

96 54.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#6

Chloroethane

Concen: 1.071 ug/l

RT: 1.62 min Scan# 110

Delta R.T. 0.17 min

Lab File: VF062492.D

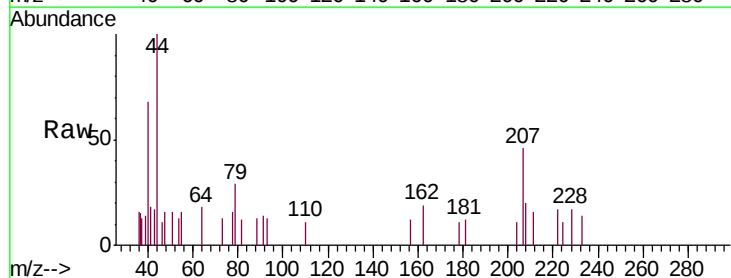
Acq: 12 May 2019 7:34

Tgt Ion: 64 Resp: 96

Ion Ratio Lower Upper

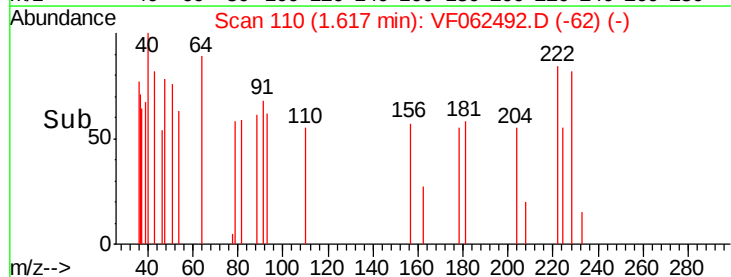
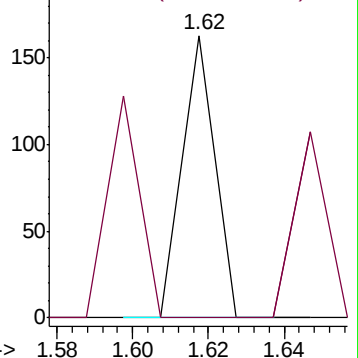
64 100

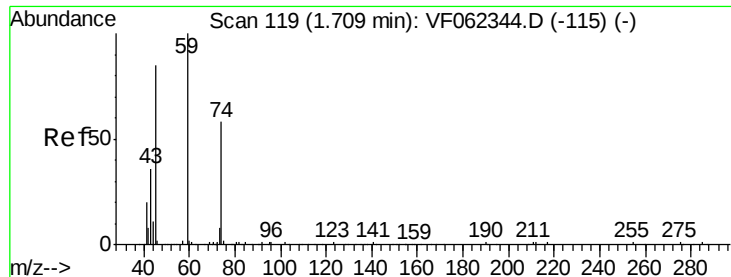
66 0.0 26.6 39.8#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0

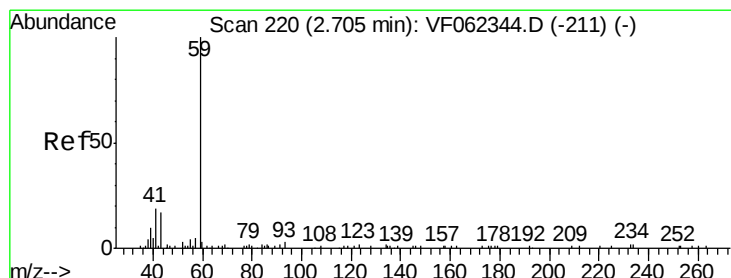
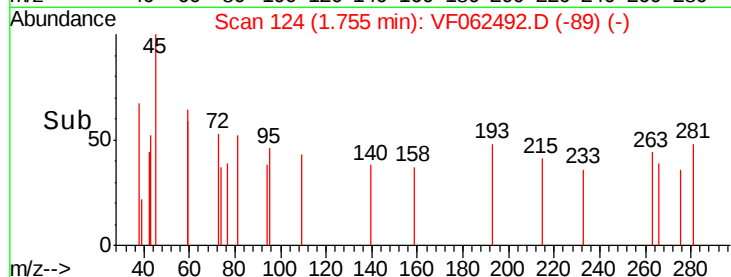
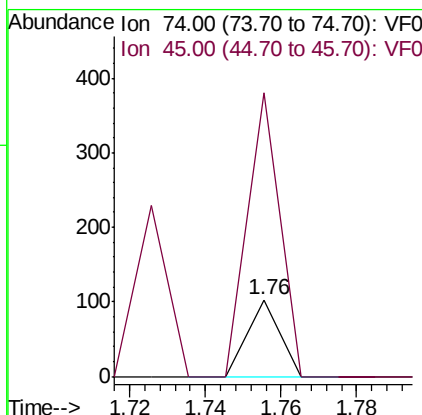
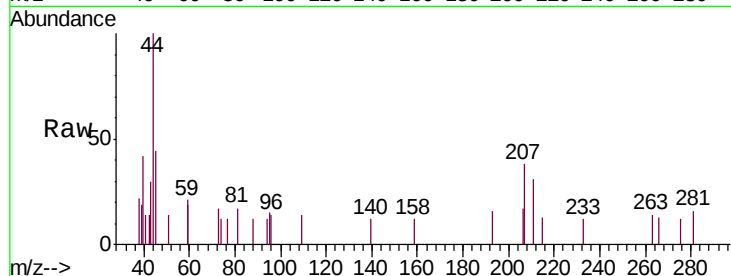




#8
Diethyl Ether
Concen: 1.090 ug/l
RT: 1.76 min Scan# 124
Delta R.T. 0.05 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

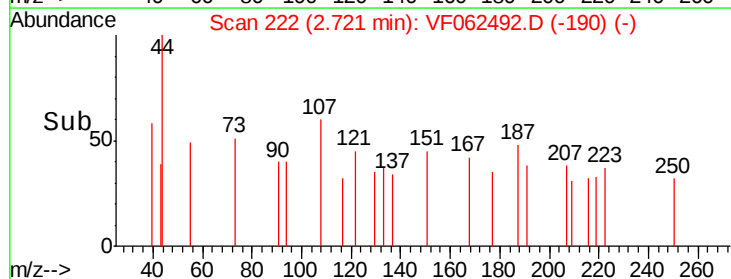
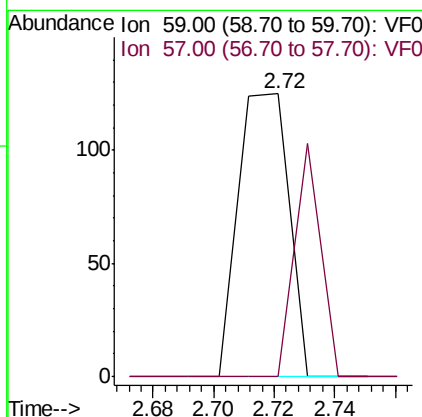
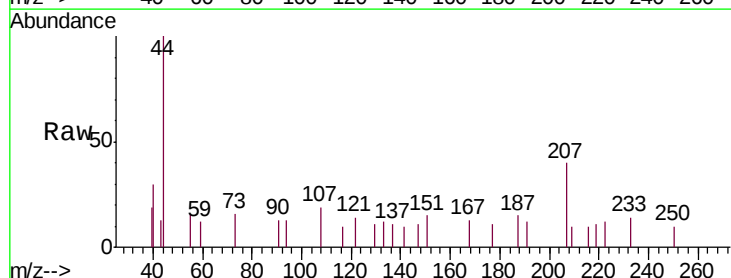
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

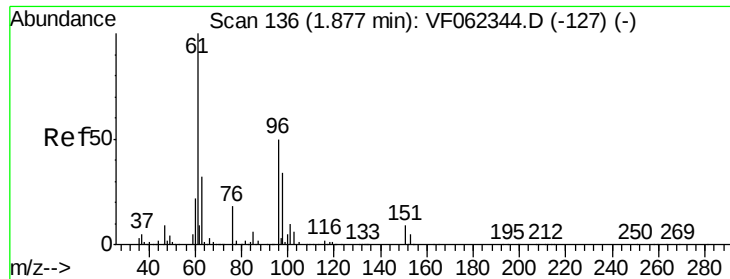
Tgt Ion: 74 Resp: 61
Ion Ratio Lower Upper
74 100
45 368.9 73.9 221.6#



#11
Tert butyl alcohol
Concen: 11.755 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion: 59 Resp: 147
Ion Ratio Lower Upper
59 100
57 41.5 9.3 13.9#





#12

1,1-Dichloroethene

Concen: 1.164 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

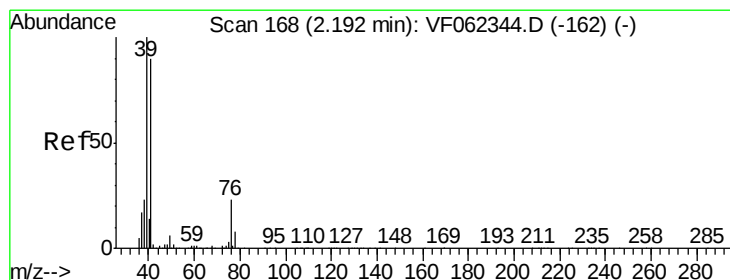
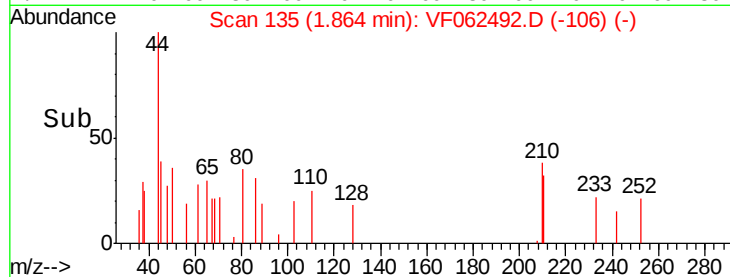
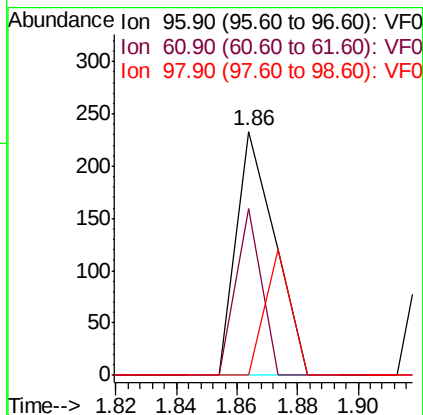
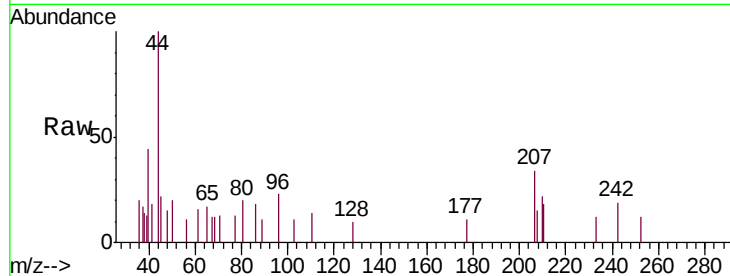
Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

Tgt Ion:	96	Resp:	209
Ion	Ratio	Lower	Upper
96	100		
61	68.7	163.2	244.8#
98	0.0	55.2	82.8#



#14

Allyl chloride

Concen: 4.541 ug/l

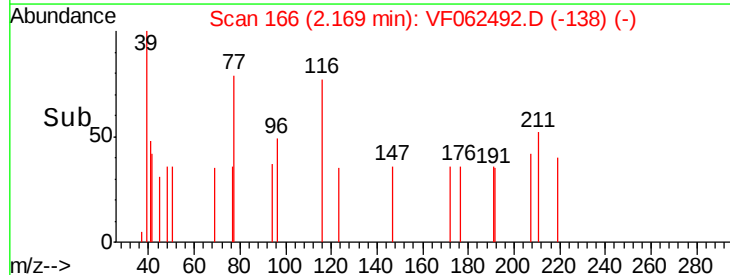
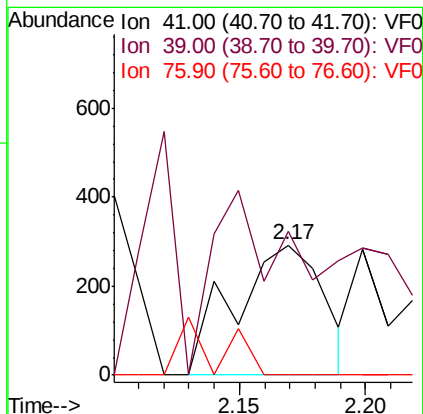
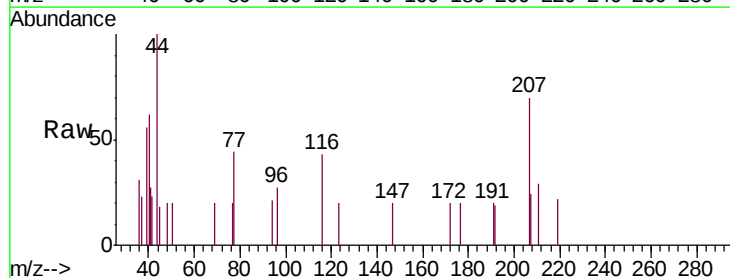
RT: 2.17 min Scan# 166

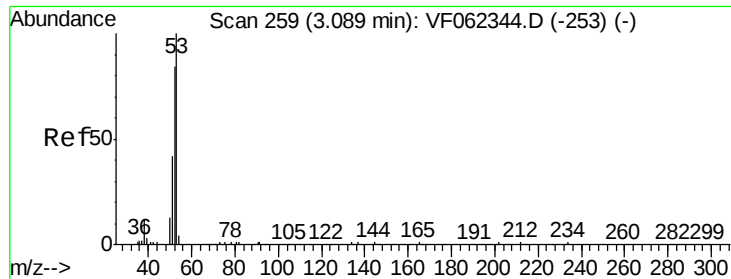
Delta R.T. -0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Tgt Ion:	41	Resp:	720
Ion	Ratio	Lower	Upper
41	100		
39	121.7	90.8	136.2
76	0.0	22.2	33.4#





#15

Acrylonitrile

Concen: 8.063 ug/l

RT: 3.13 min Scan# 263

Delta R.T. 0.04 min

Lab File: VF062492.D

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MSVOA_F

ClientSampleId :

P021-SS006-1218-01

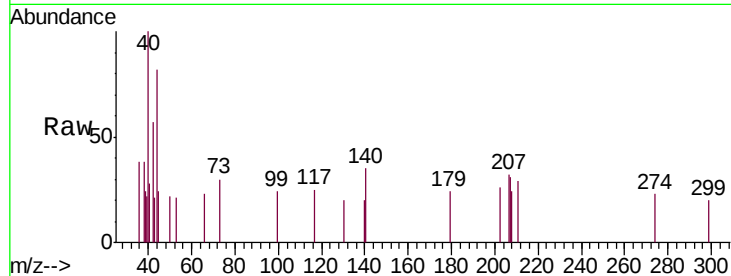
Tgt Ion: 53 Resp: 191

Ion Ratio Lower Upper

53 100

52 31.4 77.2 115.8#

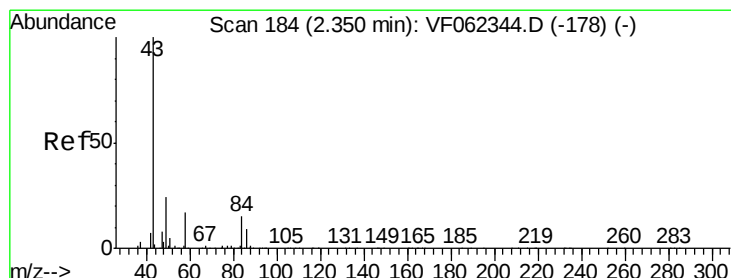
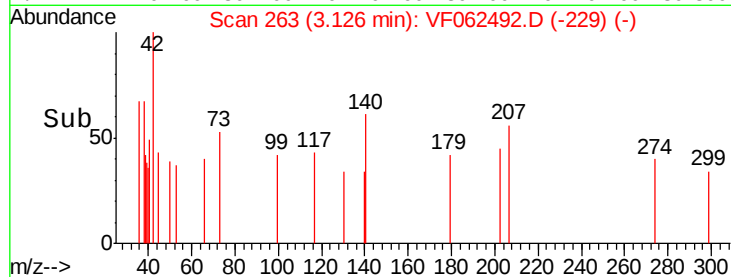
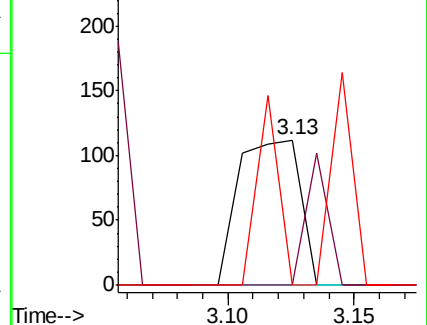
51 50.8 40.6 61.0



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: 8.356 ug/l

RT: 2.38 min Scan# 187

Delta R.T. 0.03 min

Lab File: VF062492.D

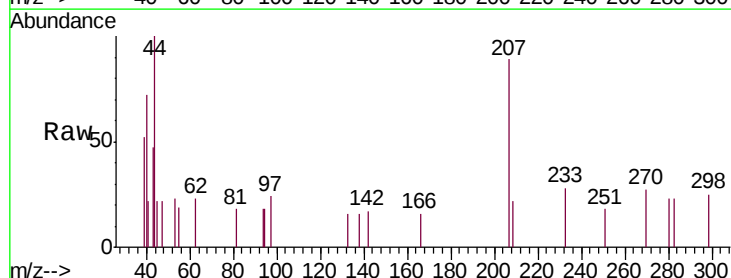
Acq: 12 May 2019 7:34

Tgt Ion: 43 Resp: 374

Ion Ratio Lower Upper

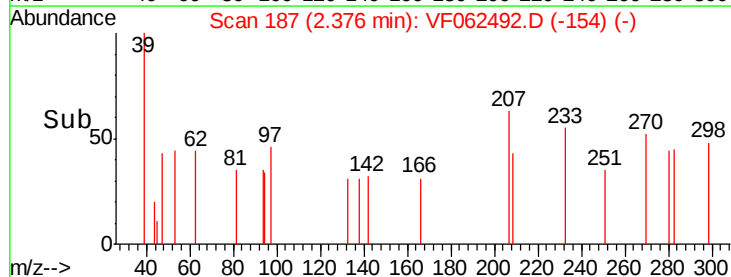
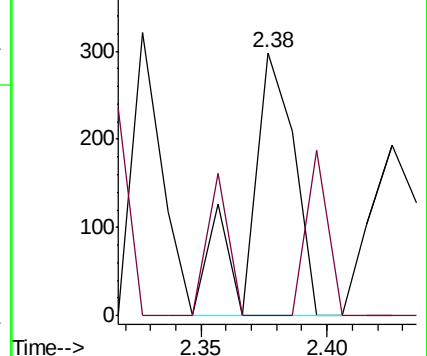
43 100

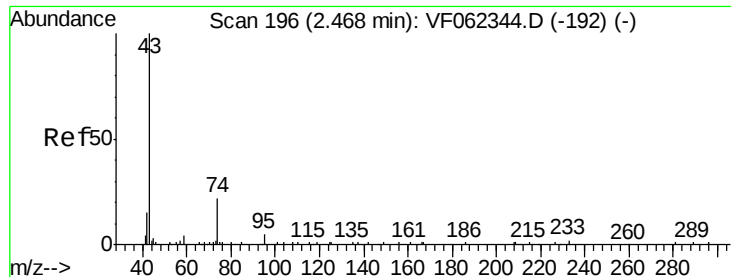
58 0.0 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

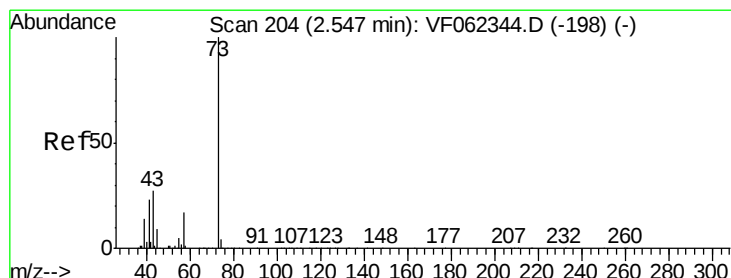
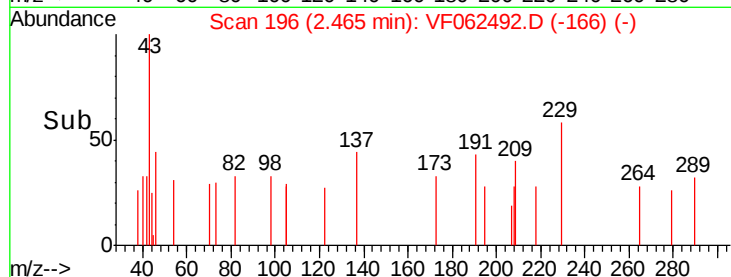
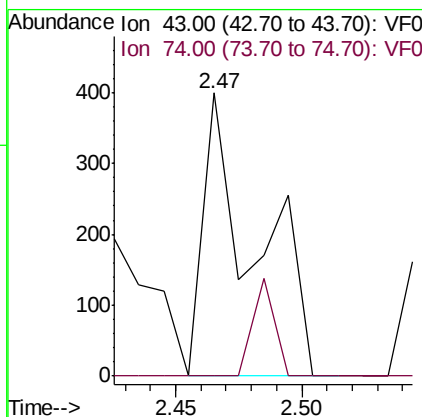
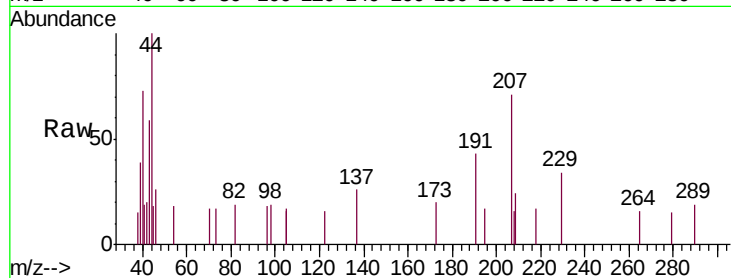




#18
Methyl Acetate
Concen: 4.082 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

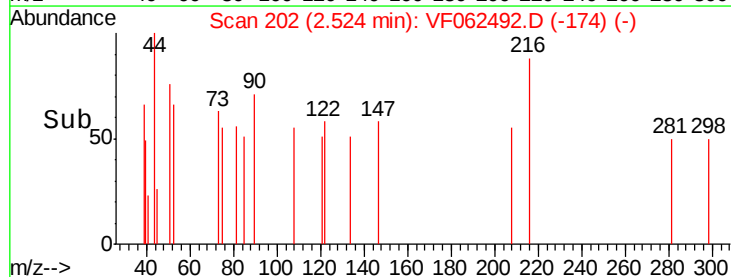
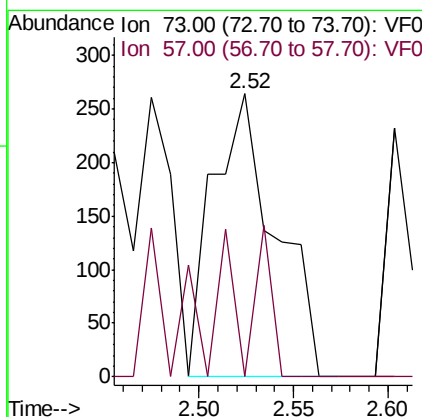
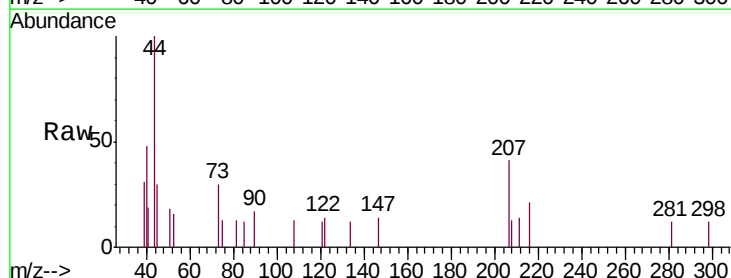
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

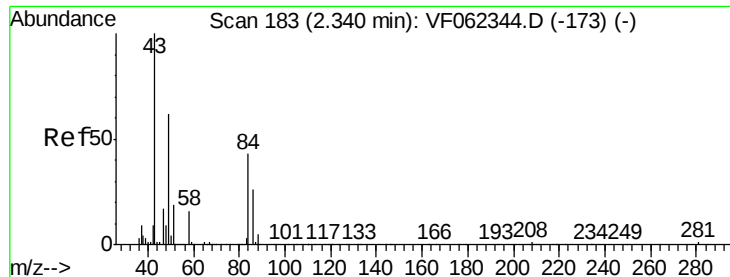
Tgt Ion: 43 Resp: 568
Ion Ratio Lower Upper
43 100
74 14.4 15.0 22.4#



#19
Methyl tert-butyl Ether
Concen: 1.641 ug/l
RT: 2.52 min Scan# 202
Delta R.T. -0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion: 73 Resp: 608
Ion Ratio Lower Upper
73 100
57 0.0 13.7 20.5#

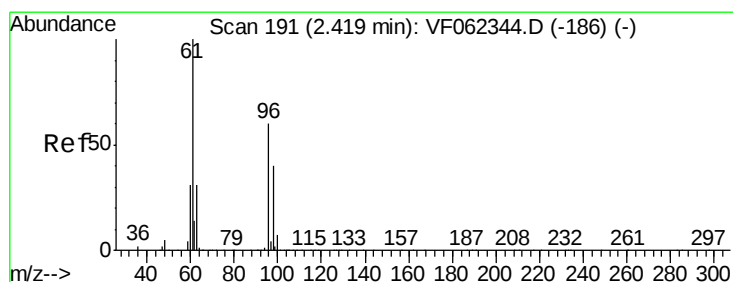
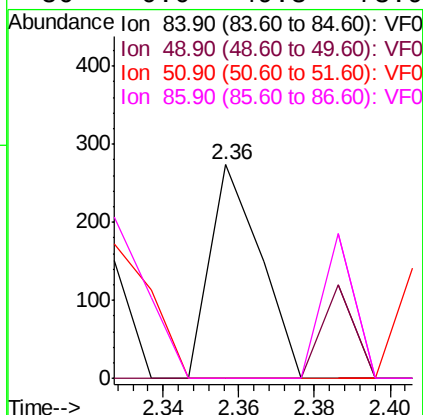
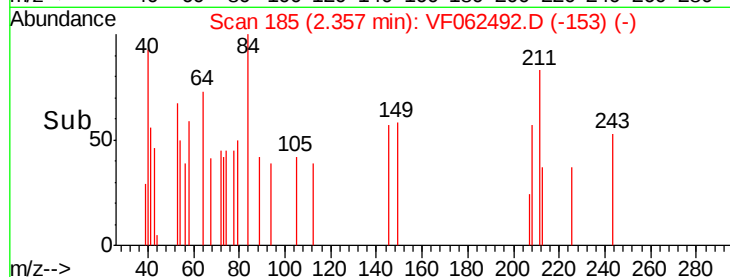
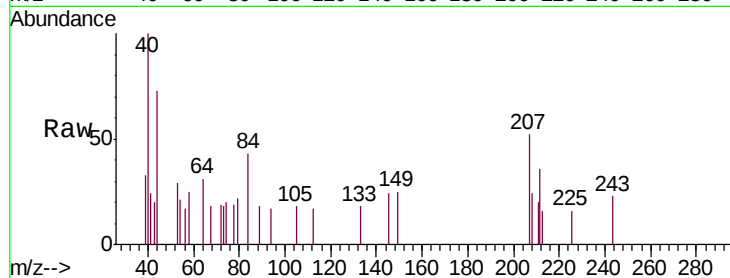




#20
Methylene Chloride
Concen: 1.550 ug/l
RT: 2.36 min Scan# 185
Delta R.T. 0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

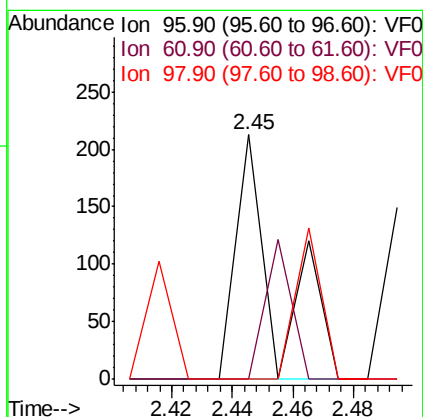
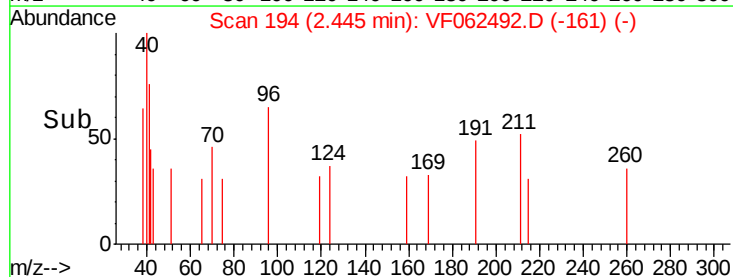
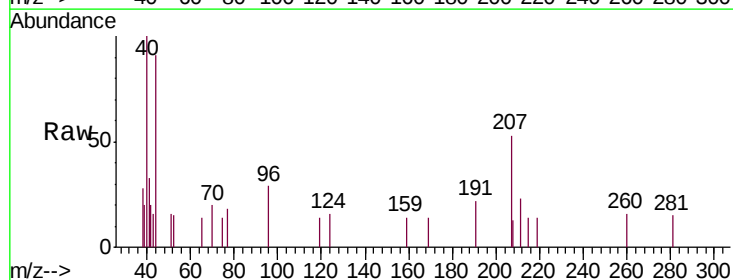
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

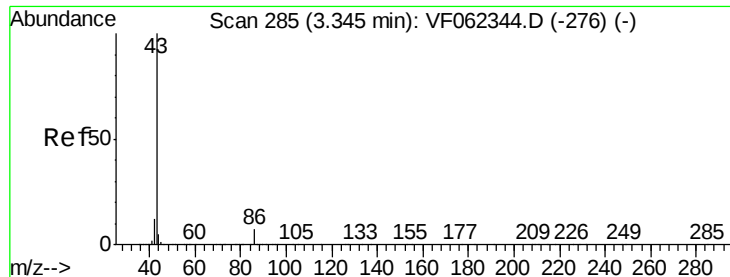
Tgt Ion:	84	Resp:	251
Ion	Ratio	Lower	Upper
84	100		
49	0.0	117.5	176.3#
51	0.0	37.0	55.4#
86	0.0	49.3	73.9#



#21
trans-1,2-Dichloroethene
Concen: 1.152 ug/l
RT: 2.45 min Scan# 194
Delta R.T. 0.03 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion:	96	Resp:	197
Ion	Ratio	Lower	Upper
96	100		
61	0.0	133.2	199.8#
98	0.0	53.1	79.7#





#23

Vinyl Acetate

Concen: 1.250 ug/l

RT: 3.37 min Scan# 288

Delta R.T. 0.03 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

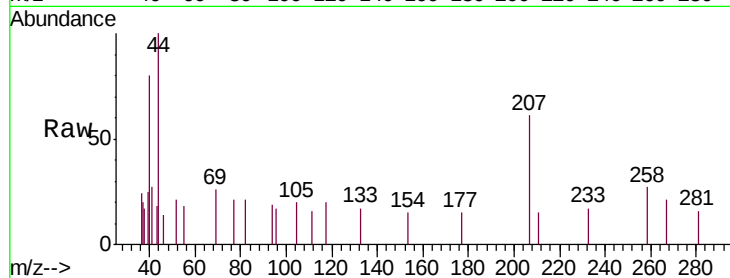
P021-SS006-1218-01

Tgt Ion: 43 Resp: 276

Ion Ratio Lower Upper

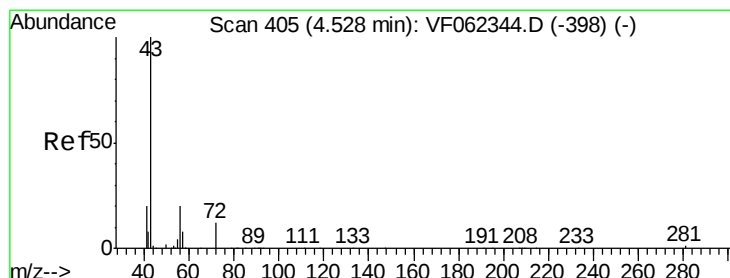
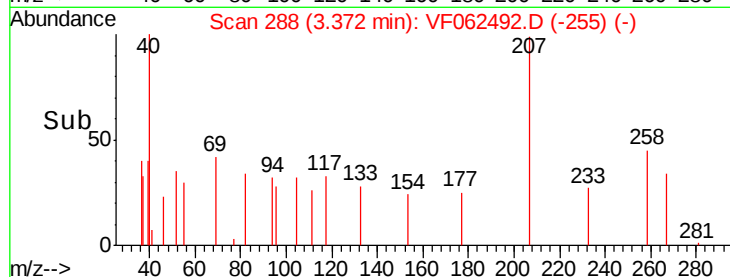
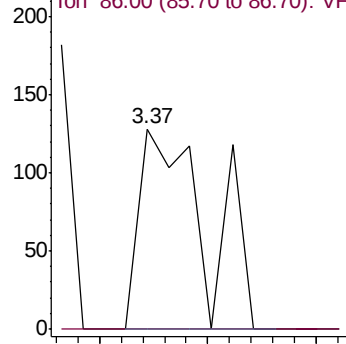
43 100

86 0.0 5.7 8.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 10.368 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062492.D

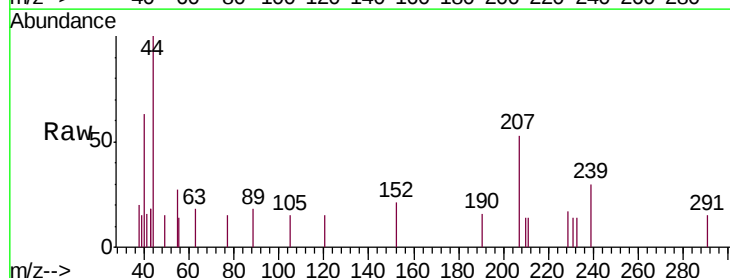
Acq: 12 May 2019 7:34

Tgt Ion: 43 Resp: 583

Ion Ratio Lower Upper

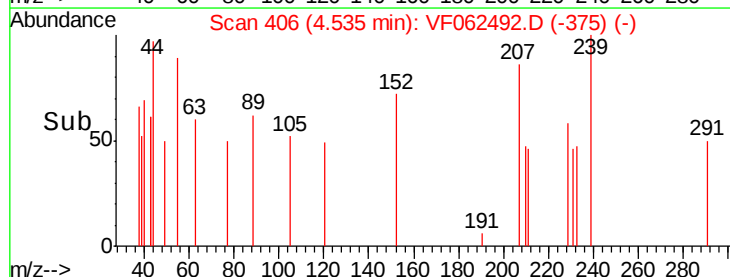
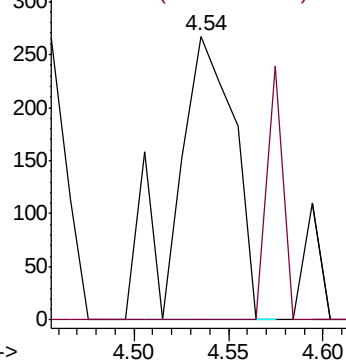
43 100

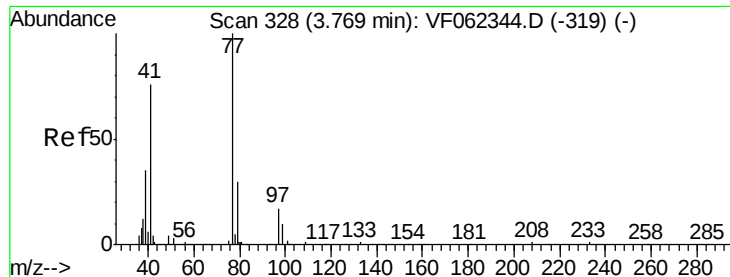
72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

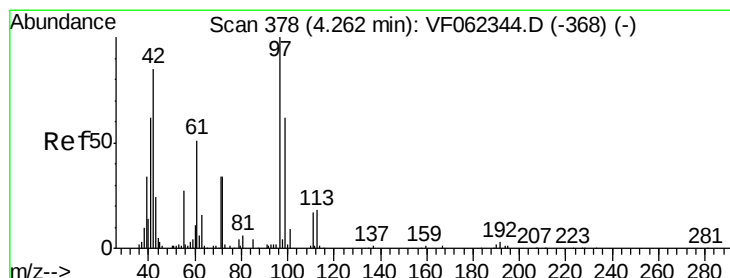
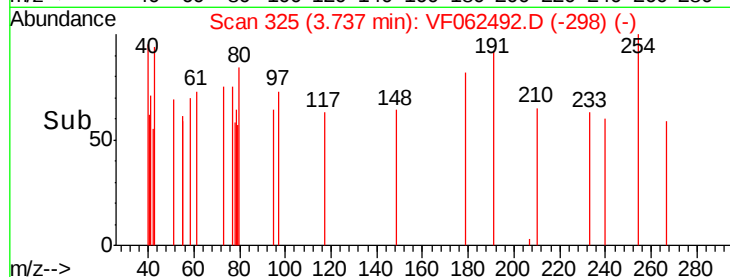
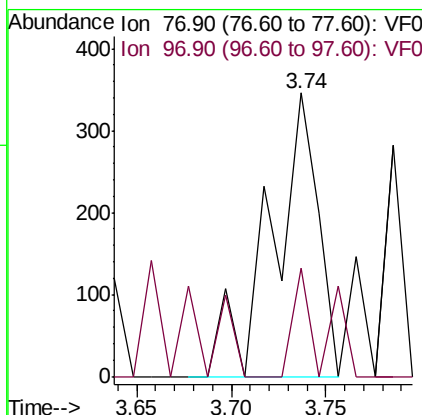
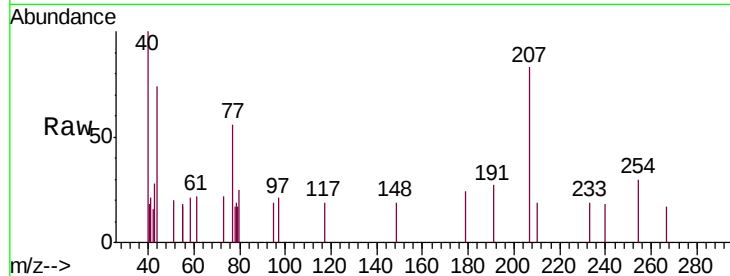




#26
 2,2-Dichloropropane
 Concen: 3.545 ug/l
 RT: 3.74 min Scan# 325
 Delta R.T. -0.03 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

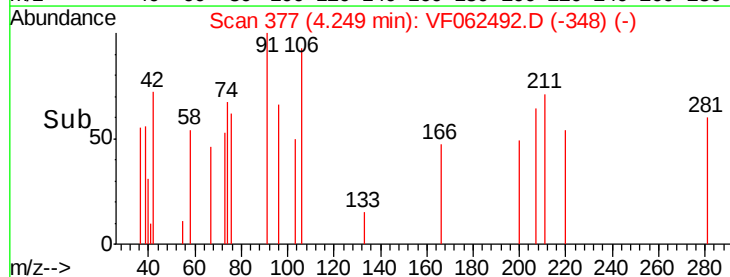
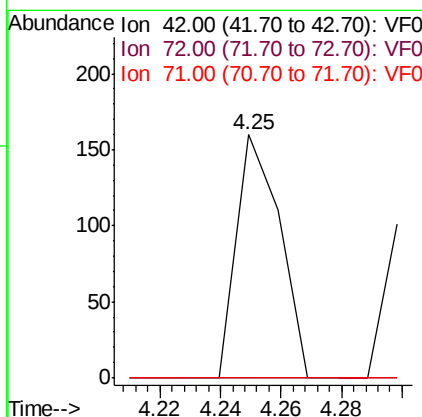
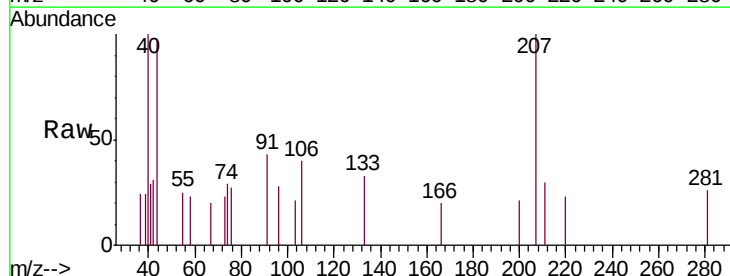
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-1218-01

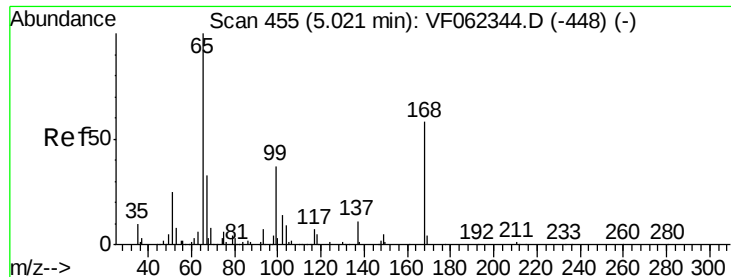
Tgt Ion: 77 Resp: 593
 Ion Ratio Lower Upper
 77 100
 97 24.3 9.5 28.5



#29
 Tetrahydrofuran
 Concen: 6.191 ug/l
 RT: 4.25 min Scan# 377
 Delta R.T. -0.01 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Tgt Ion: 42 Resp: 160
 Ion Ratio Lower Upper
 42 100
 72 0.0 31.4 47.0#
 71 0.0 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 17.188 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

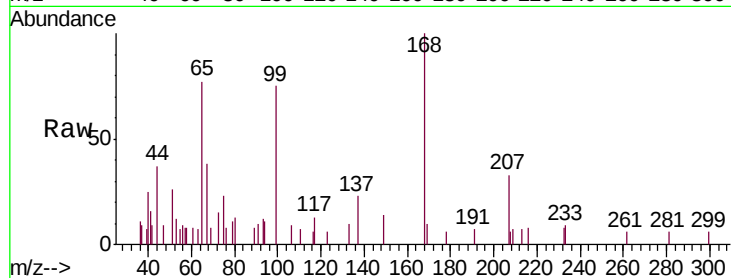
P021-SS006-1218-01

Tgt Ion: 65 Resp: 3803

Ion Ratio Lower Upper

65 100

67 49.9 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

5.04

1500

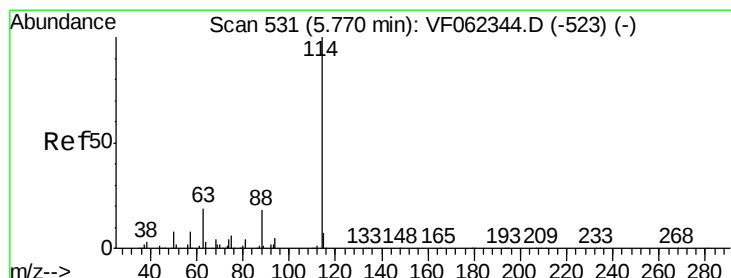
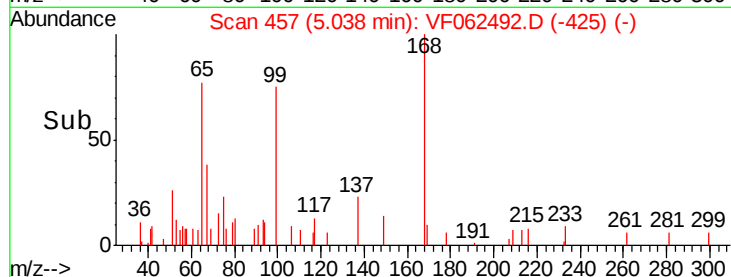
1000

500

0

4.95 5.00 5.05 5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

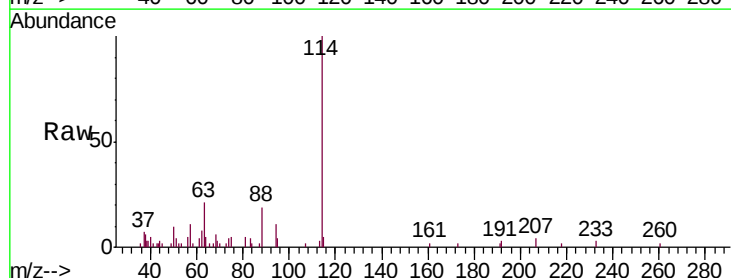
Tgt Ion: 114 Resp: 17297

Ion Ratio Lower Upper

114 100

63 21.5 0.0 37.4

88 18.8 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

8000

6000

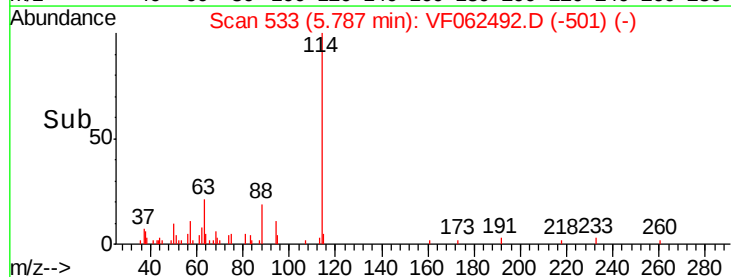
4000

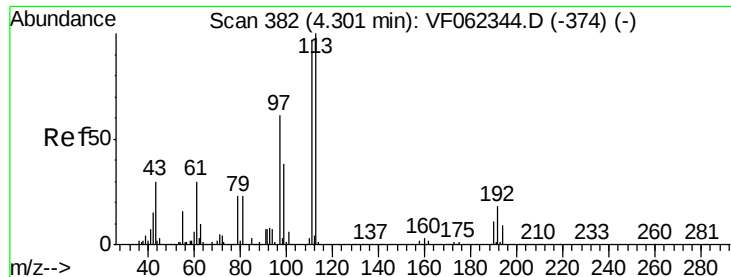
2000

0

5.70 5.80 5.90

Time-->

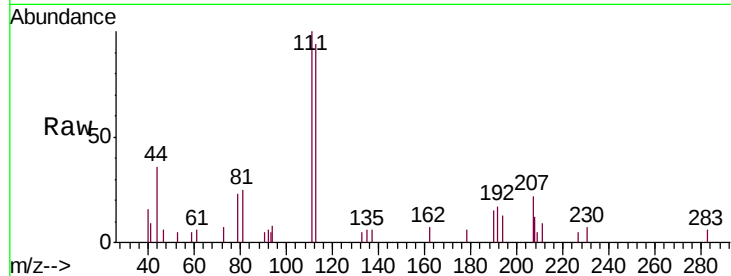




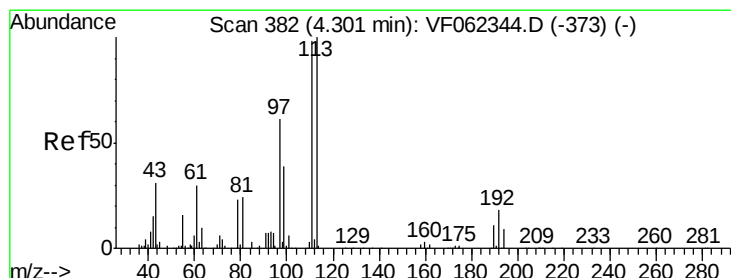
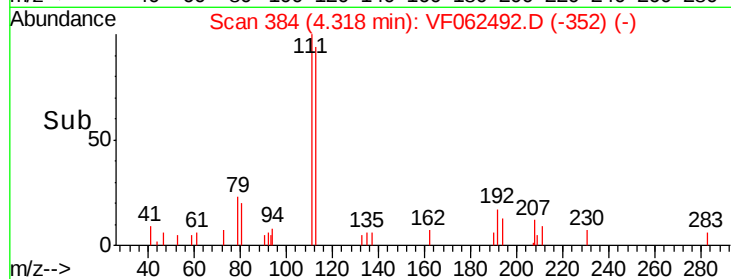
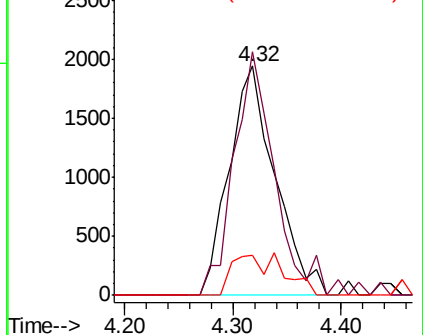
#35
 Dibromofluoromethane
 Concen: 41.821 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-1218-01

Tgt Ion: 113 Resp: 5763
 Ion Ratio Lower Upper
 113 100
 111 94.7 79.4 119.0
 192 19.6 16.0 24.0

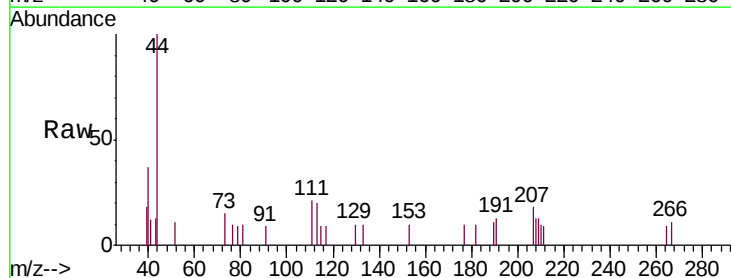


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

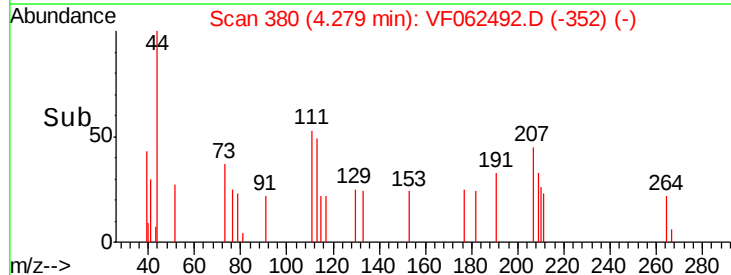
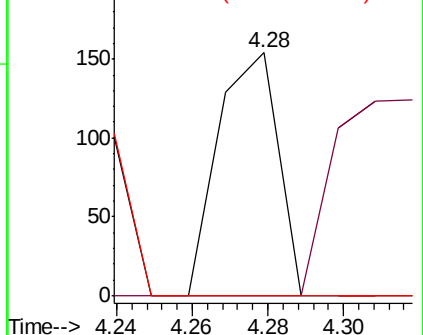


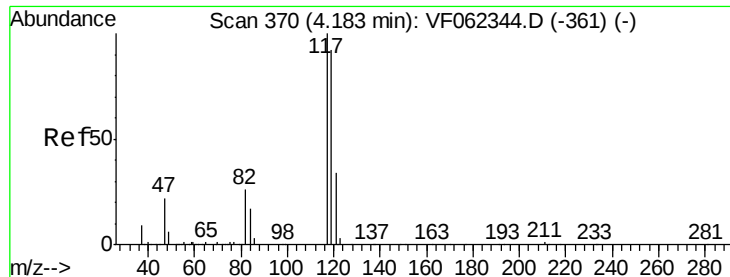
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.28 min Scan# 380
 Delta R.T. -0.02 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Tgt Ion: 43 Resp: 167
 Ion Ratio Lower Upper
 43 100
 61 0.0 0.0 0.0
 70 0.0 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: 4.20 min Scan# 372

Delta R.T. 0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

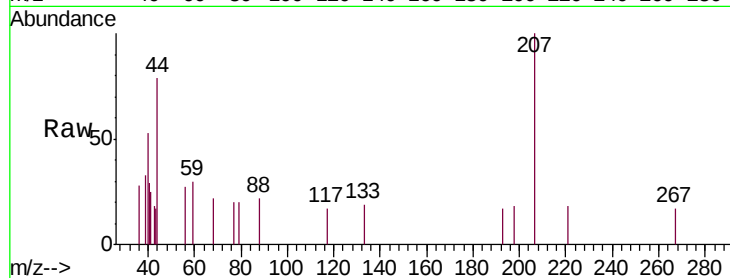
Tgt Ion: 117 Resp: 60

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

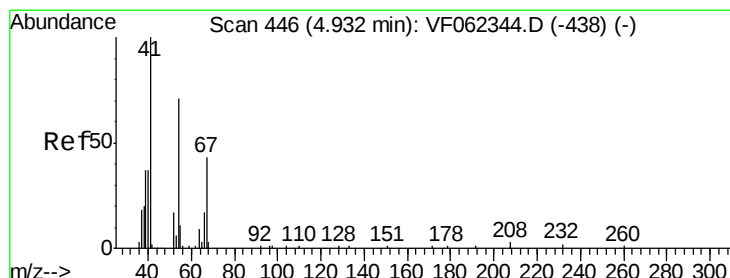
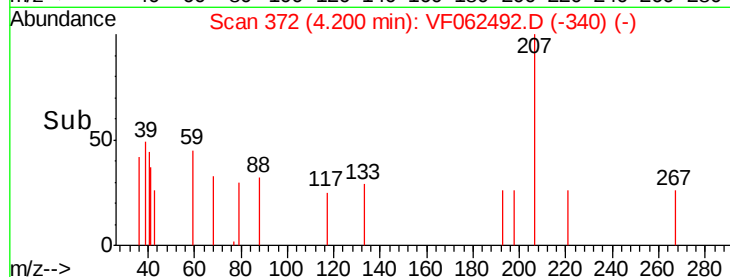
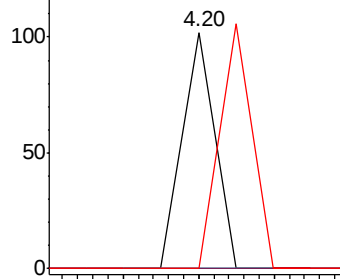
121 0.0 27.4 41.0#



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: 6.736 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Tgt Ion: 41 Resp: 240

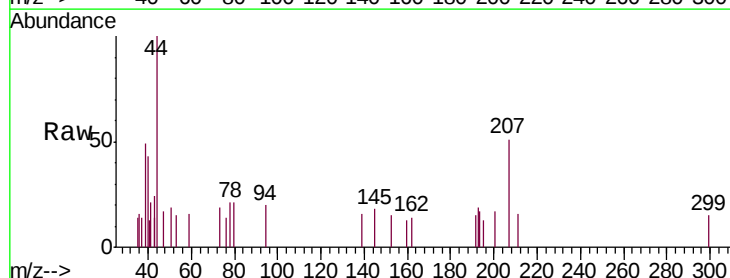
Ion Ratio Lower Upper

41 100

39 149.2 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

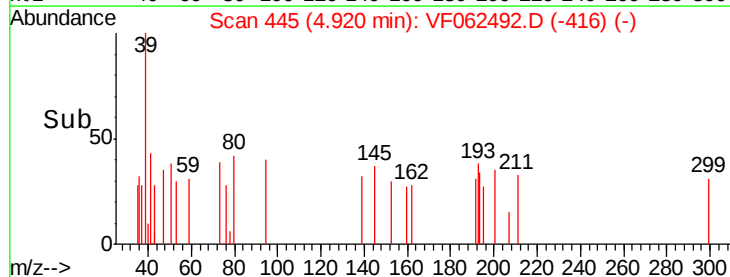
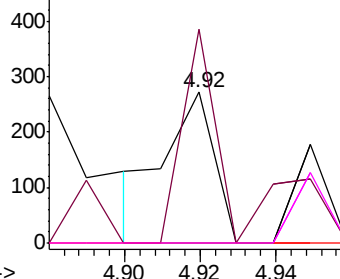


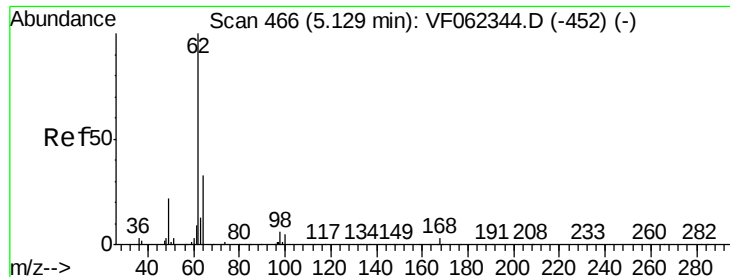
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#42

1,2-Dichloroethane

Concen: 2.163 ug/l

RT: 5.08 min Scan# 461

Delta R.T. -0.05 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

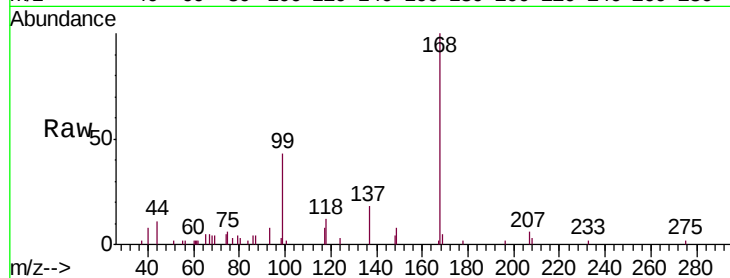
P021-SS006-1218-01

Tgt Ion: 62 Resp: 296

Ion Ratio Lower Upper

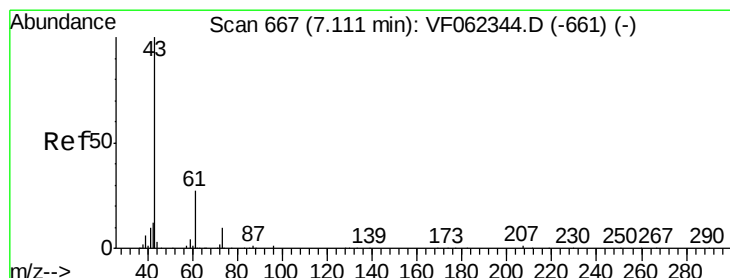
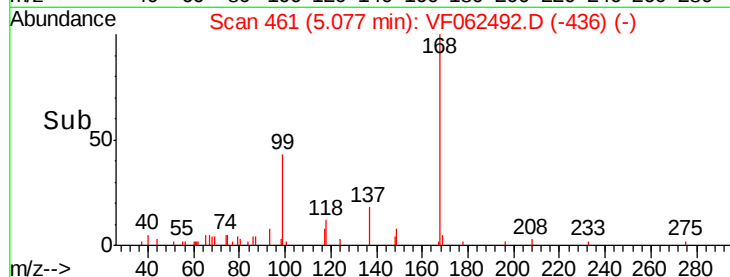
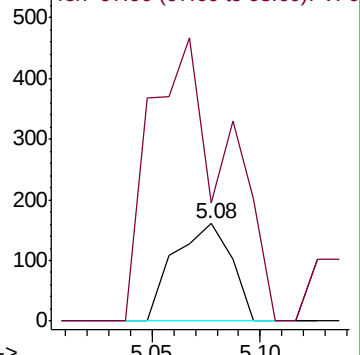
62 100

98 386.5 0.0 12.4#



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#43

Isopropyl Acetate

Concen: 1.169 ug/l

RT: 7.12 min Scan# 668

Delta R.T. 0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

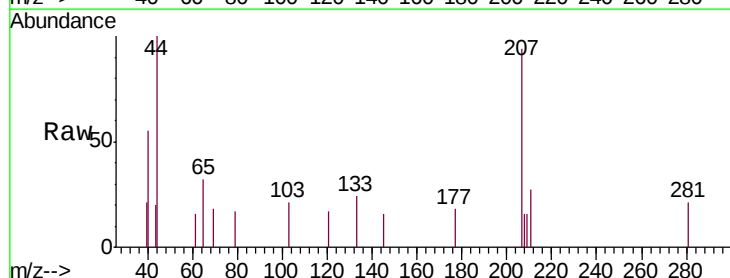
Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

61 78.5 22.8 34.2#

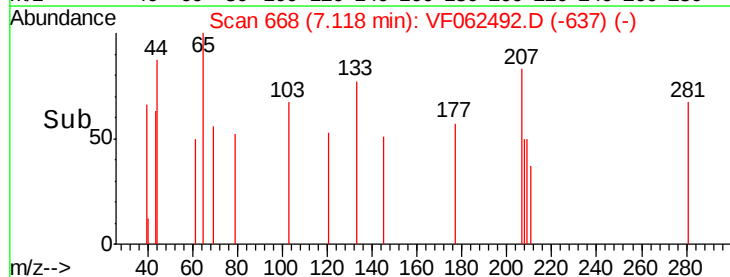
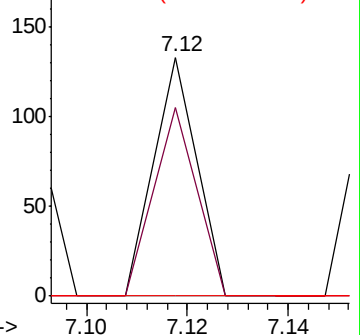
87 0.0 0.6 1.0#

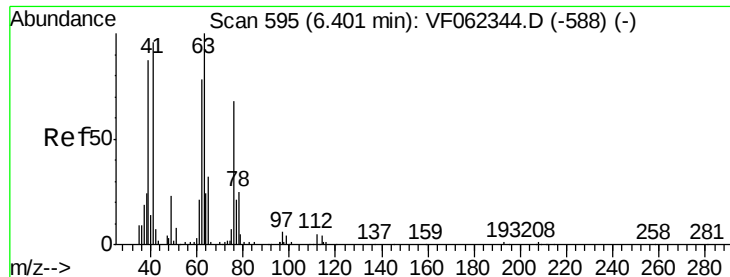


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#45

1,2-Dichloropropane

Concen: 1.930 ug/l

RT: 6.37 min Scan# 592

Delta R.T. -0.03 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

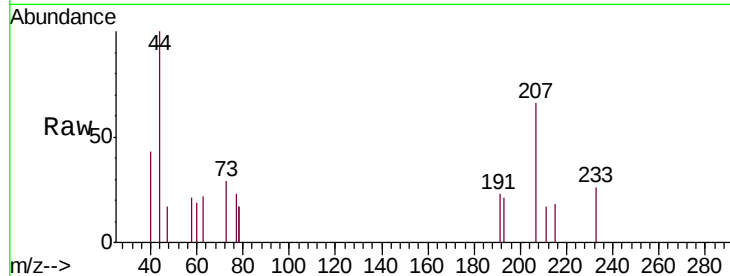
P021-SS006-1218-01

Tgt Ion: 63 Resp: 143

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0

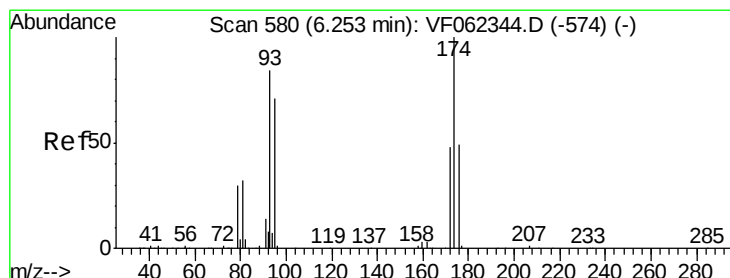
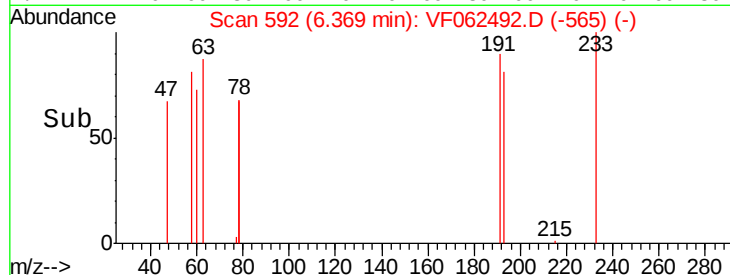
6.37

100

50

0

Time--> 6.32 6.34 6.36 6.38 6.40



#46

Dibromomethane

Concen: 1.513 ug/l

RT: 6.08 min Scan# 563

Delta R.T. -0.17 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

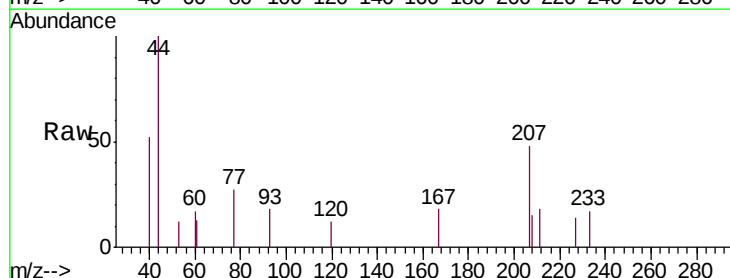
Tgt Ion: 93 Resp: 93

Ion Ratio Lower Upper

93 100

95 94.6 68.4 102.6

174 0.0 99.6 149.4#



Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V

200

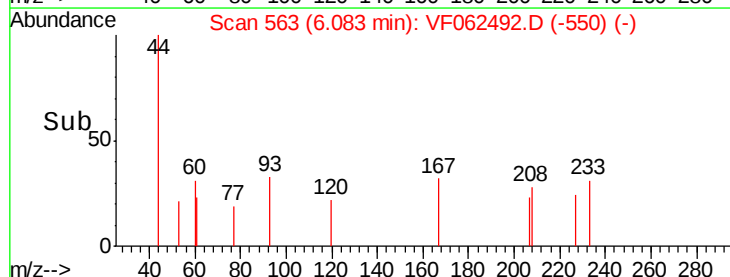
150

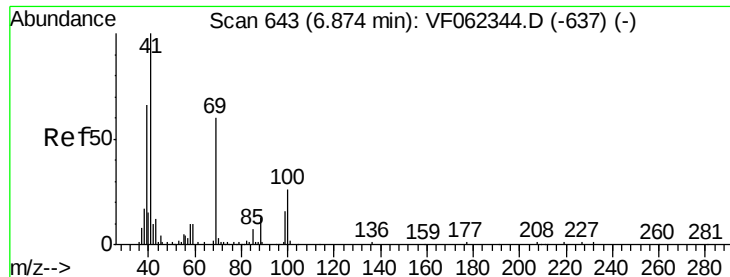
100

50

0

Time--> 6.06 6.08 6.10

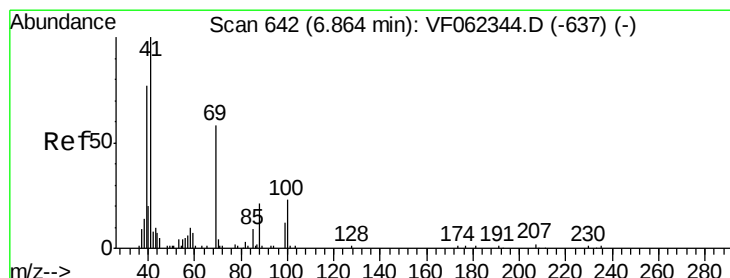
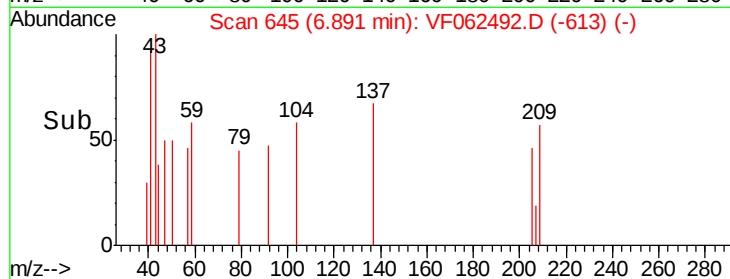
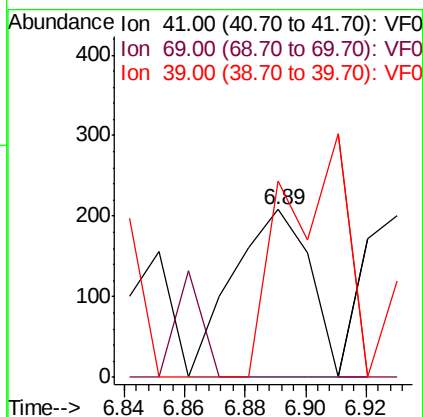
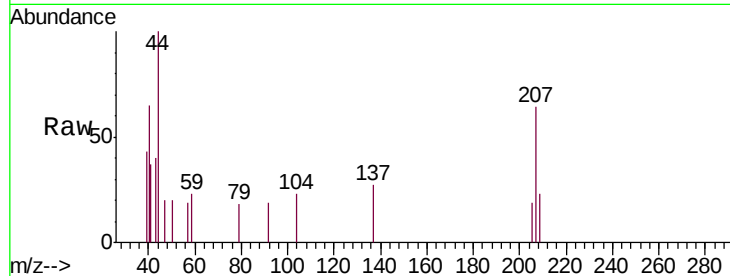




#48
Methyl methacrylate
Concen: 7.726 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

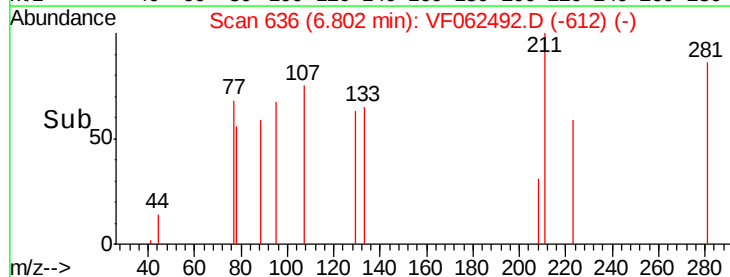
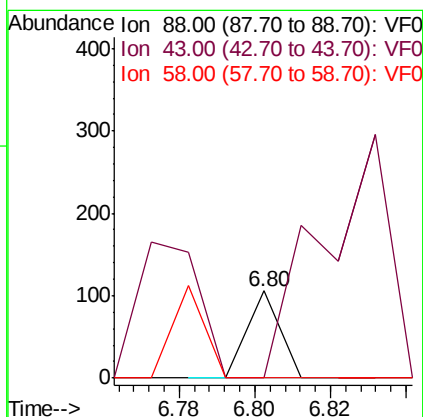
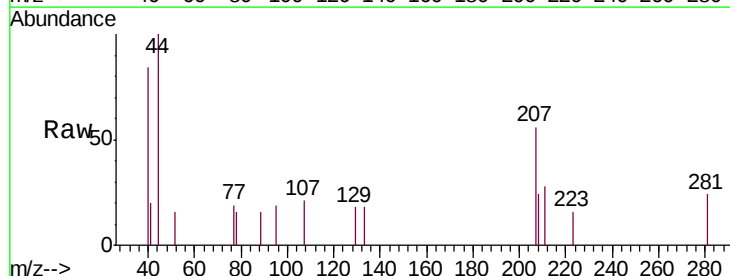
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

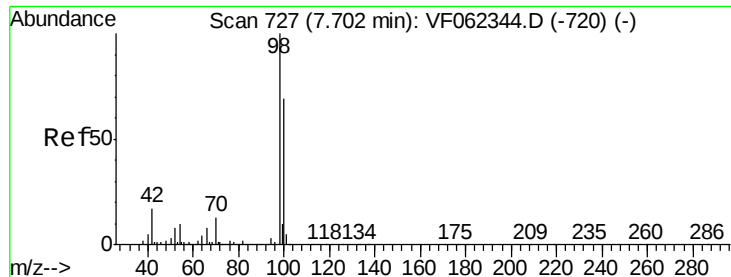
Tgt Ion: 41 Resp: 369
Ion Ratio Lower Upper
41 100
69 0.0 48.6 72.8#
39 0.0 56.1 84.1#



#49
1,4-Dioxane
Concen: 116.710 ug/l
RT: 6.80 min Scan# 636
Delta R.T. -0.06 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 0.0 52.8 79.2#





#50

Toluene-d8

Concen: 31.960 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

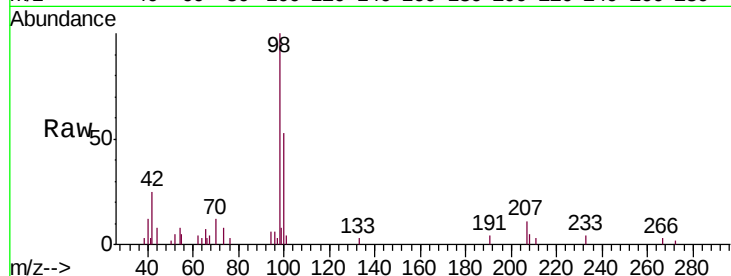
P021-SS006-1218-01

Tgt Ion: 98 Resp: 10661

Ion Ratio Lower Upper

98 100

100 62.5 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.72

4000

3000

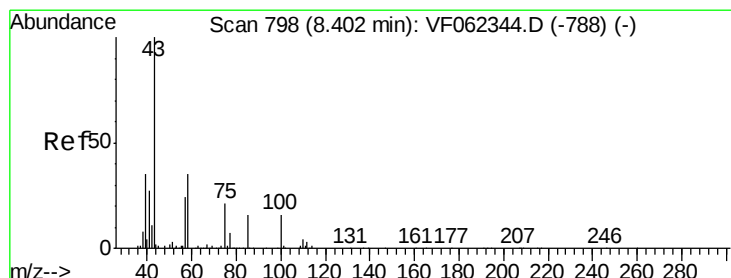
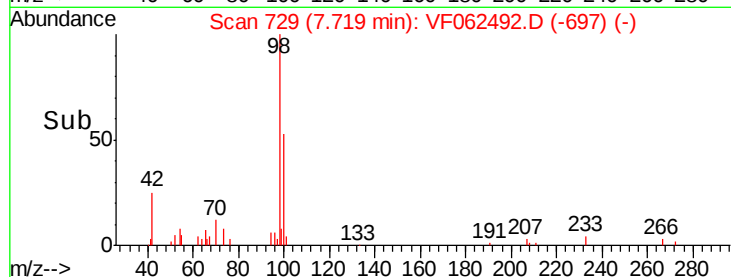
2000

1000

0

7.65 7.70 7.75 7.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.101 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.05 min

Lab File: VF062492.D

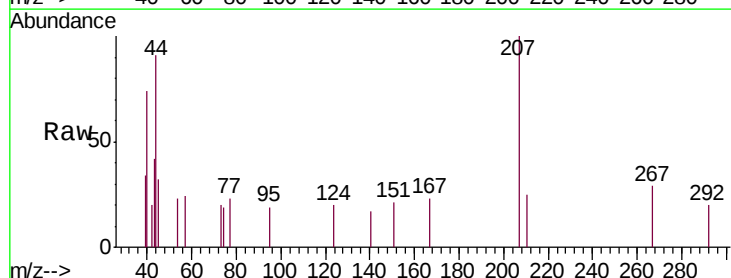
Acq: 12 May 2019 7:34

Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.45

300

250

200

150

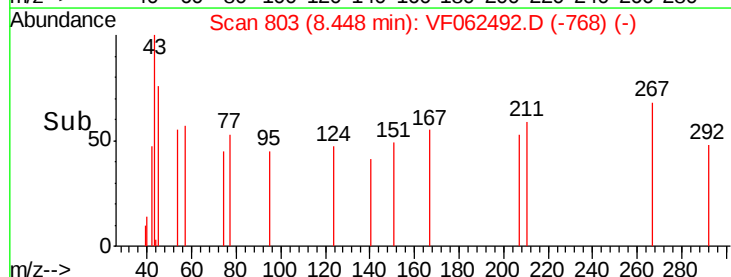
100

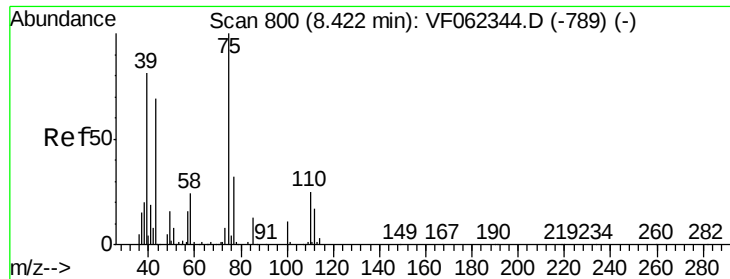
50

0

8.40 8.45 8.50

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.134 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.03 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

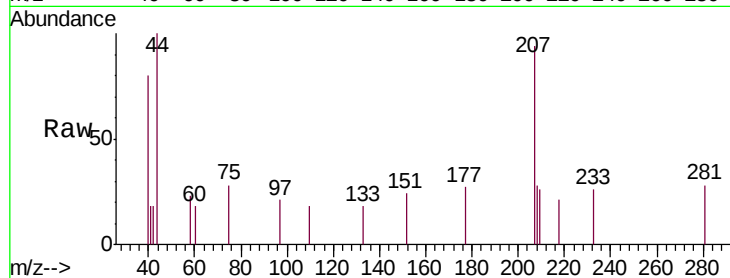
P021-SS006-1218-01

Tgt Ion: 75 Resp: 248

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

8.39

150

100

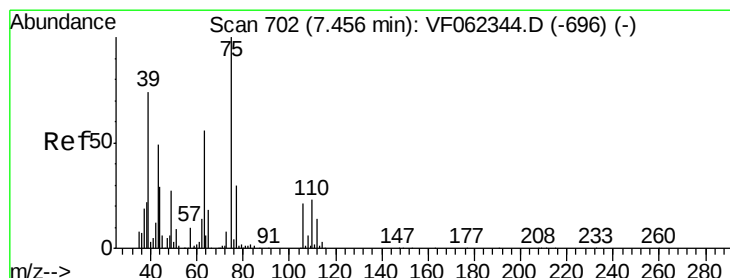
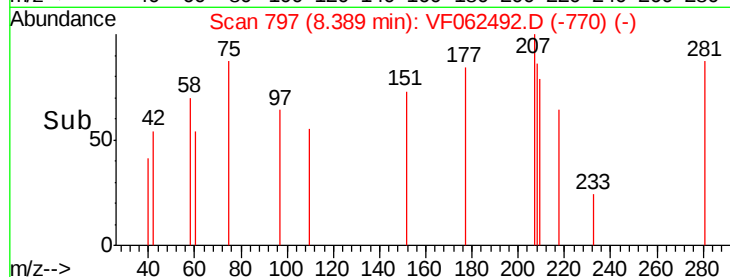
50

0

8.35

8.40

Time-->



#54

cis-1,3-Dichloropropene

Concen: 1.649 ug/l

RT: 7.43 min Scan# 700

Delta R.T. -0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

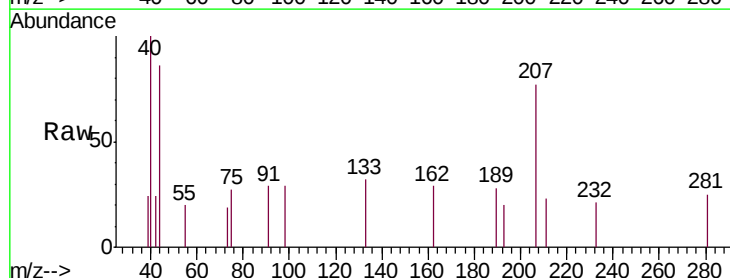
Tgt Ion: 75 Resp: 223

Ion Ratio Lower Upper

75 100

77 0.0 24.0 36.0#

39 88.4 58.7 88.1#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0

300

200

100

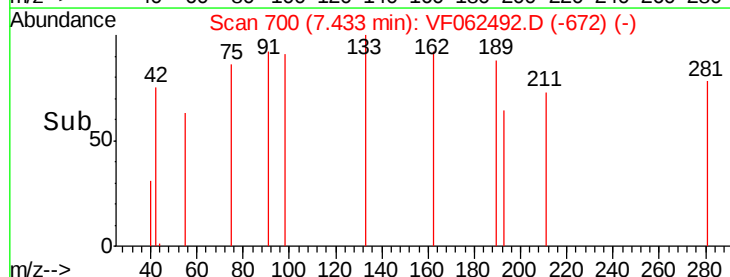
0

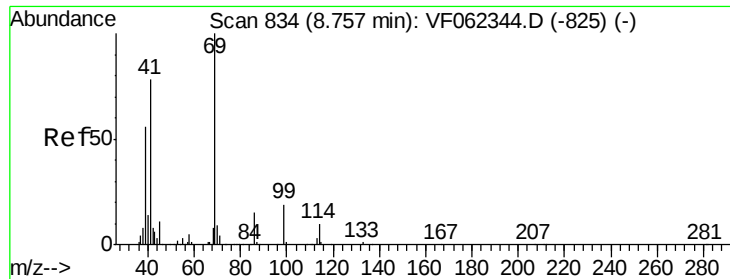
7.35

7.40

7.45

Time-->





#56

Ethyl methacrylate

Concen: 1.050 ug/l

RT: 8.83 min Scan# 842

Delta R.T. 0.08 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

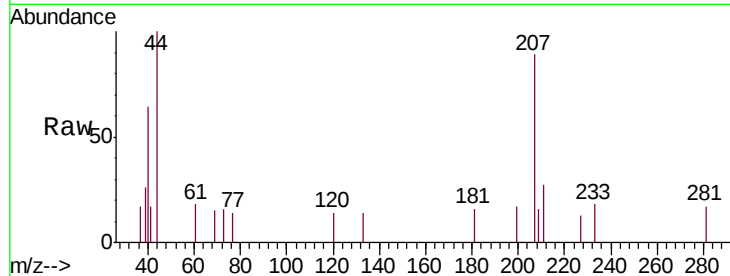
Tgt Ion: 69 Resp: 71

Ion Ratio Lower Upper

69 100

41 394.4 66.3 99.5#

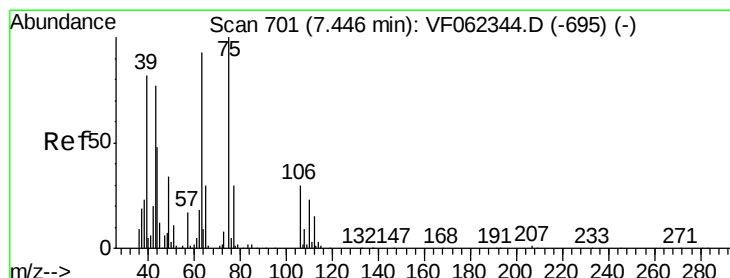
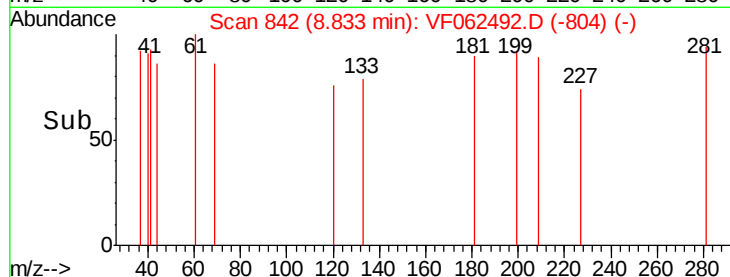
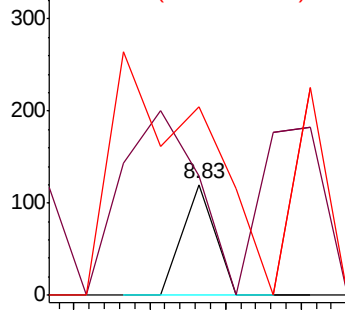
39 621.1 50.1 75.1#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 3.147 ug/l

RT: 7.35 min Scan# 692

Delta R.T. -0.09 min

Lab File: VF062492.D

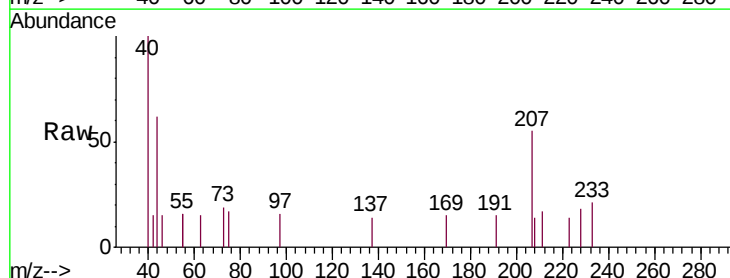
Acq: 12 May 2019 7:34

Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

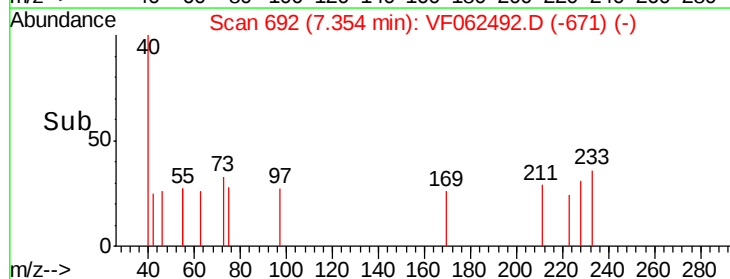
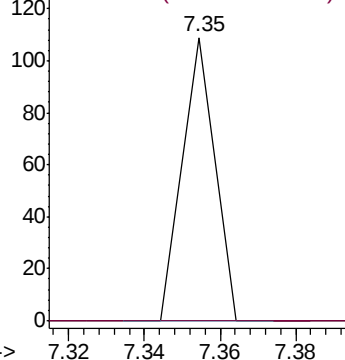
63 100

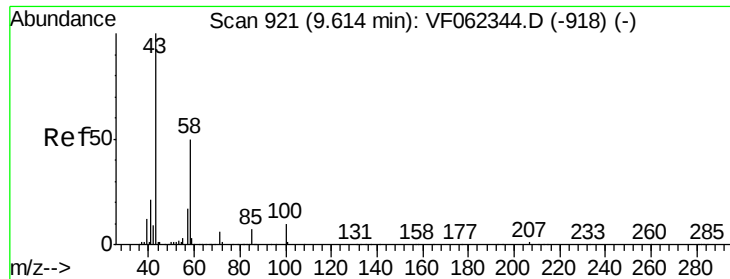
106 0.0 25.8 38.8#



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

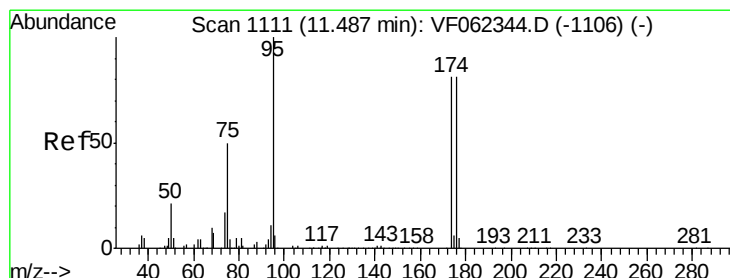
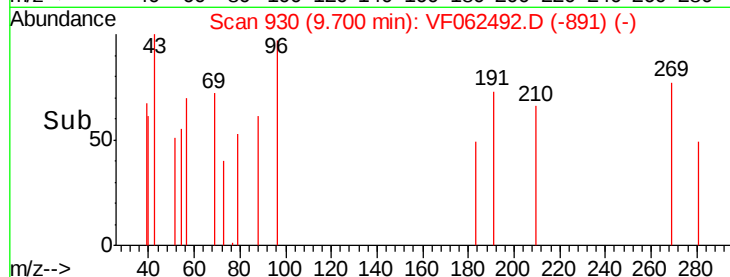
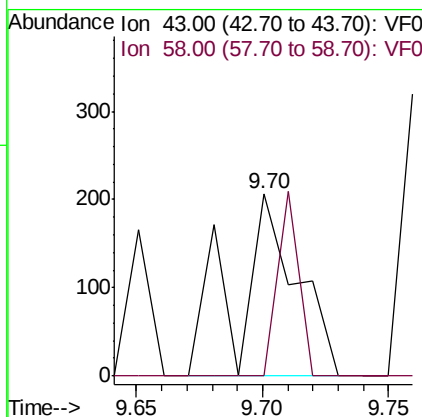
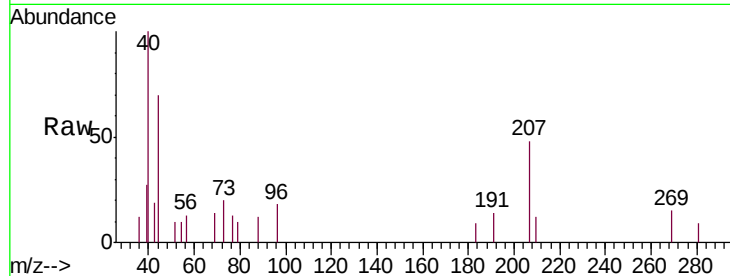




#59
2-Hexanone
Concen: 9.825 ug/l
RT: 9.70 min Scan# 930
Delta R.T. 0.09 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

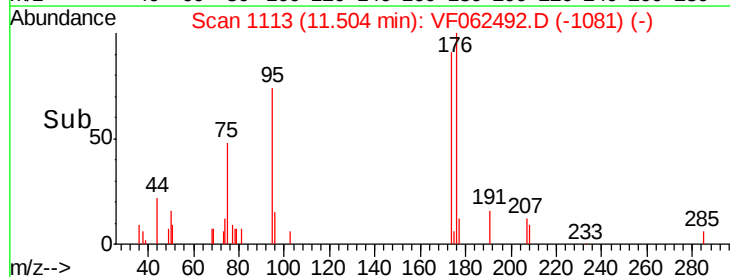
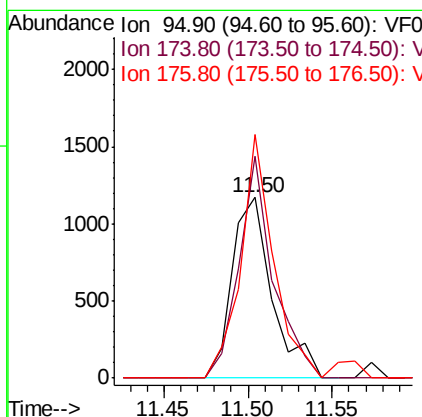
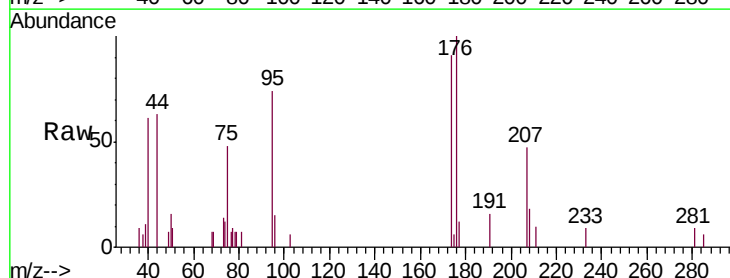
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

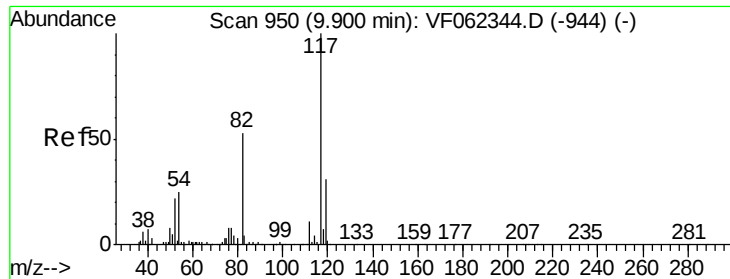
Tgt Ion: 43 Resp: 348
Ion Ratio Lower Upper
43 100
58 35.6 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 12.904 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion: 95 Resp: 1942
Ion Ratio Lower Upper
95 100
174 104.9 0.0 191.8
176 110.1 0.0 193.2

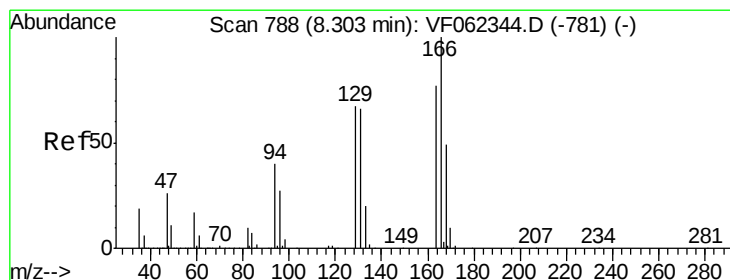
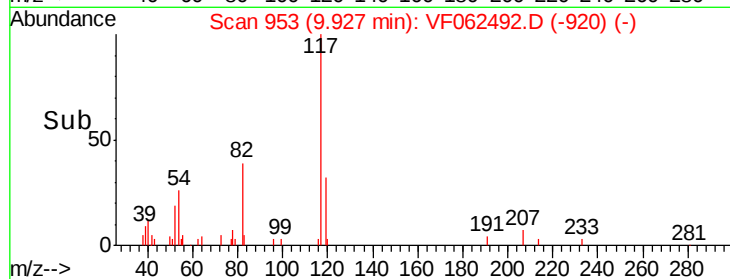
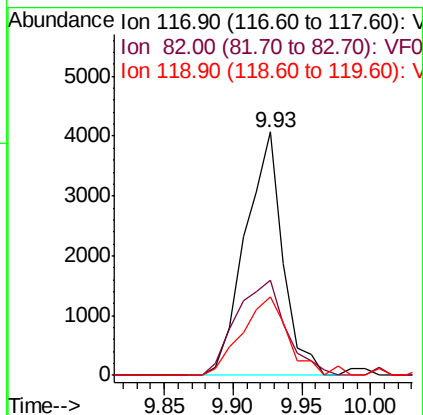
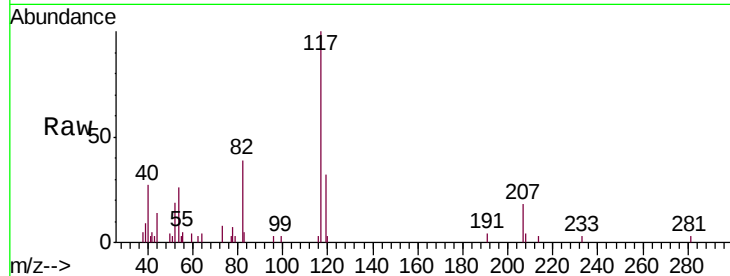




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

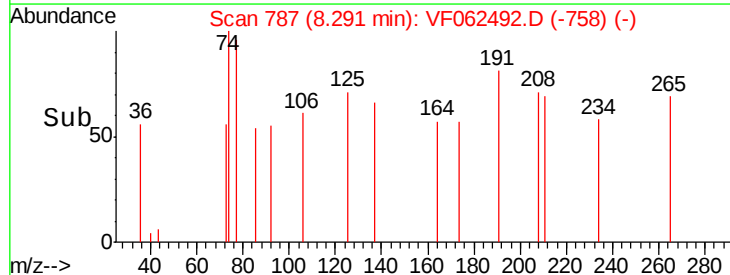
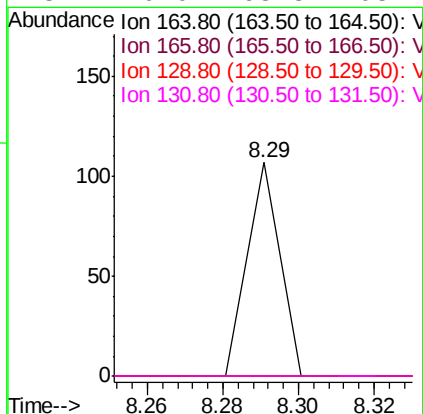
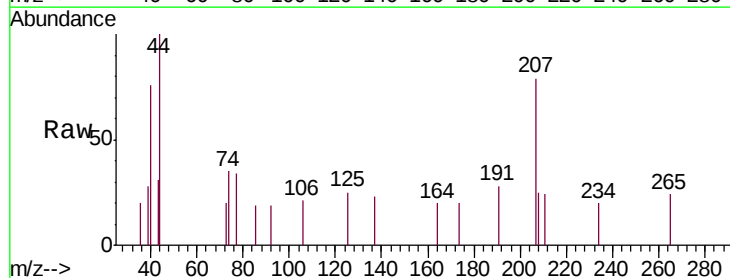
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

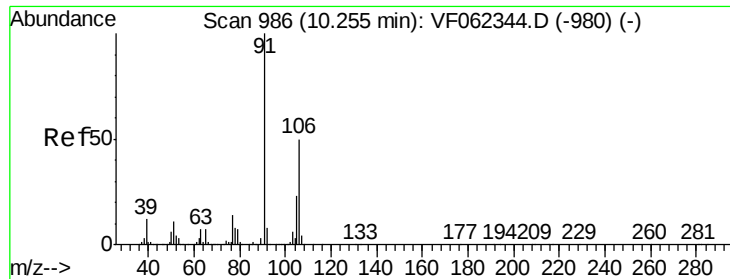
Tgt Ion:117 Resp: 7724
Ion Ratio Lower Upper
117 100
82 38.9 42.2 63.2#
119 32.3 25.0 37.4



#64
Tetrachloroethene
Concen: 1.005 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.01 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion:164 Resp: 63
Ion Ratio Lower Upper
164 100
166 0.0 104.2 156.4#
129 0.0 69.6 104.4#
131 0.0 68.8 103.2#

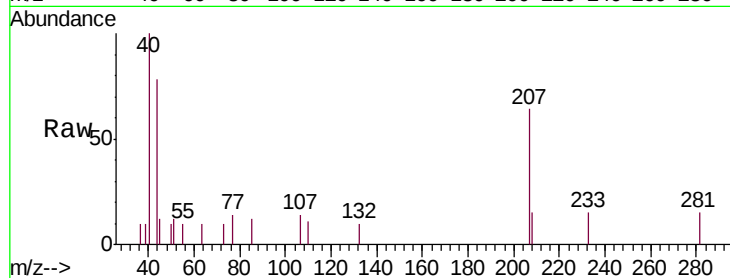




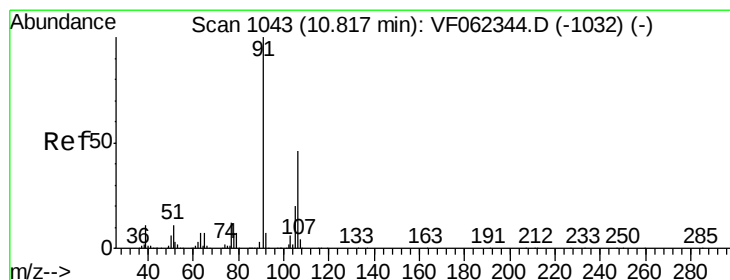
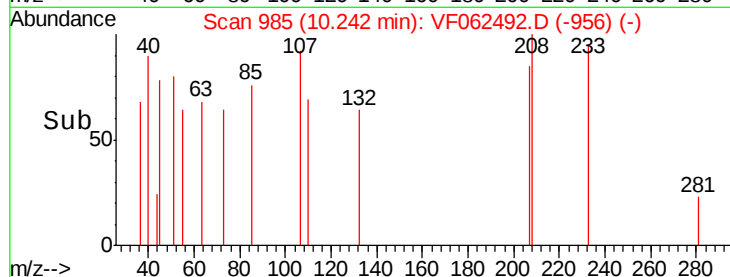
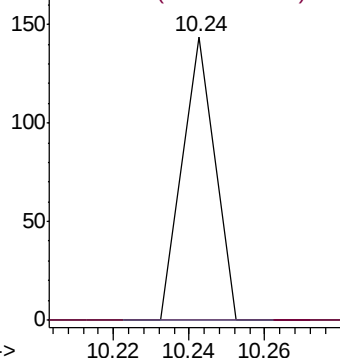
#68
m/p-Xylenes
Concen: 1.029 ug/l
RT: 10.24 min Scan# 985
Delta R.T. -0.01 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

Tgt Ion:106 Resp: 85
Ion Ratio Lower Upper
106 100
91 0.0 167.4 251.2#

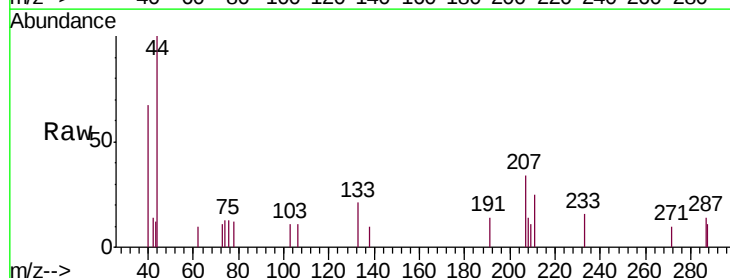


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

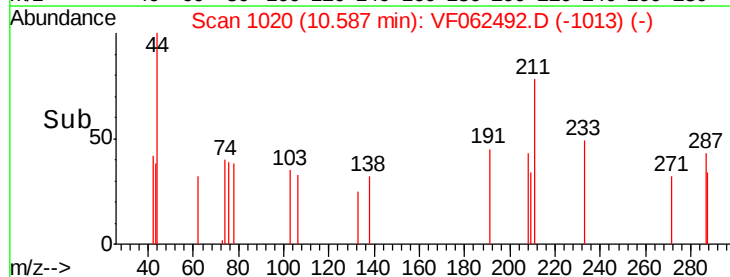
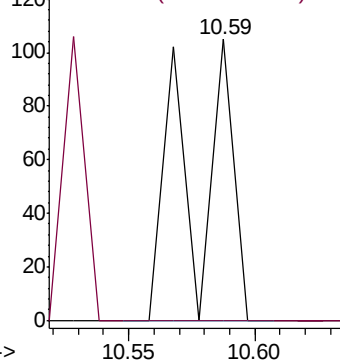


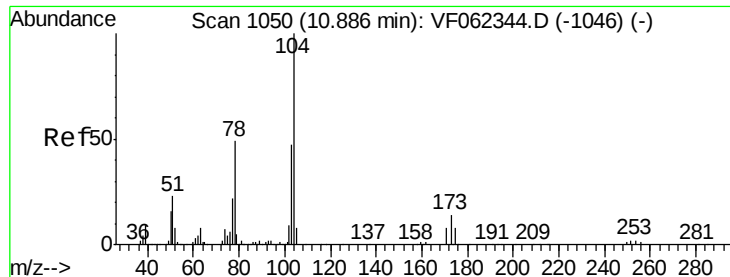
#69
o-Xylene
Concen: 1.367 ug/l
RT: 10.59 min Scan# 1020
Delta R.T. -0.23 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion:106 Resp: 122
Ion Ratio Lower Upper
106 100
91 0.0 111.3 333.8#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#70

Styrene

Concen: 1.032 ug/l

RT: 10.79 min Scan# 1041

Delta R.T. -0.09 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

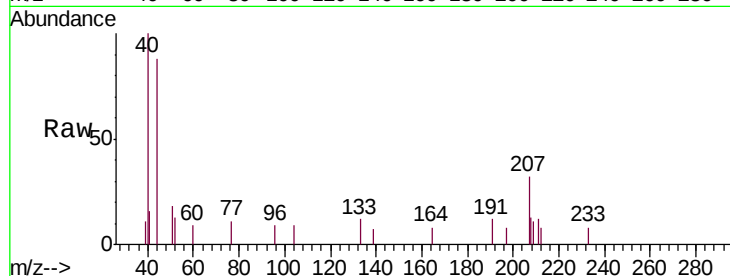
Tgt Ion:104 Resp: 138

Ion Ratio Lower Upper

104 100

78 0.0 39.5 59.3#

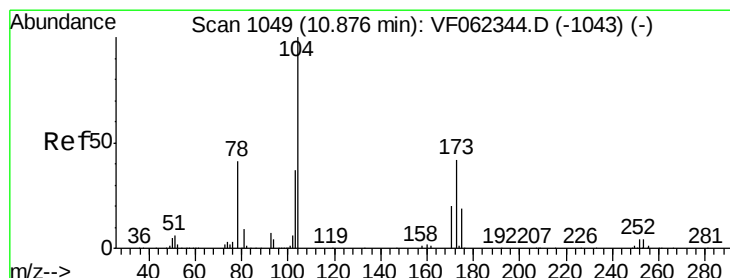
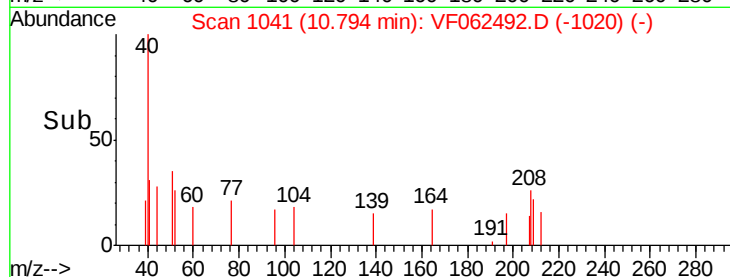
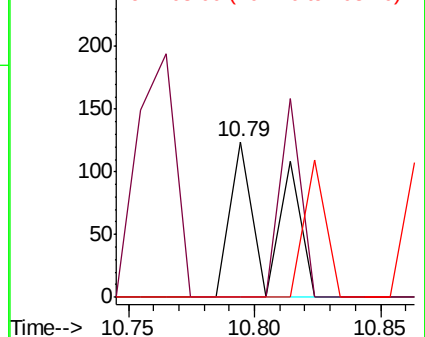
103 0.0 38.4 57.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 1.727 ug/l

RT: 11.13 min Scan# 1075

Delta R.T. 0.25 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

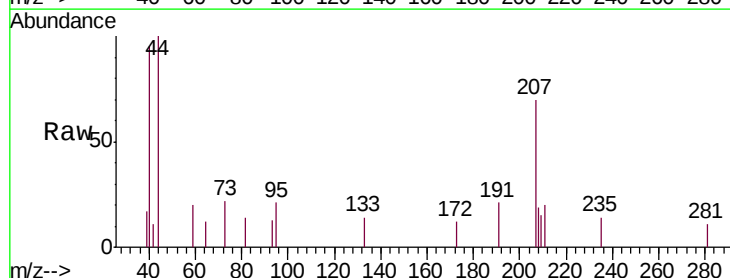
Tgt Ion:173 Resp: 61

Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.2#

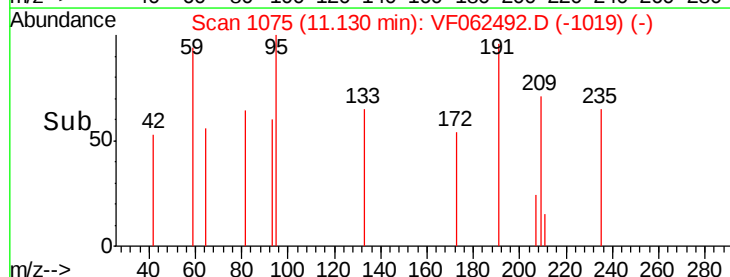
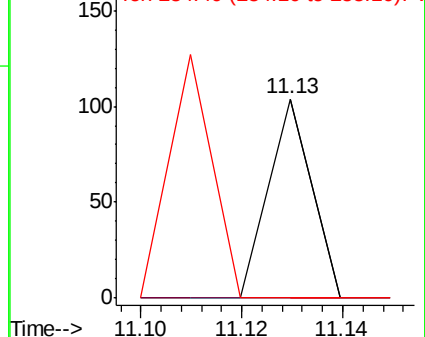
254 123.0 0.1 0.1#

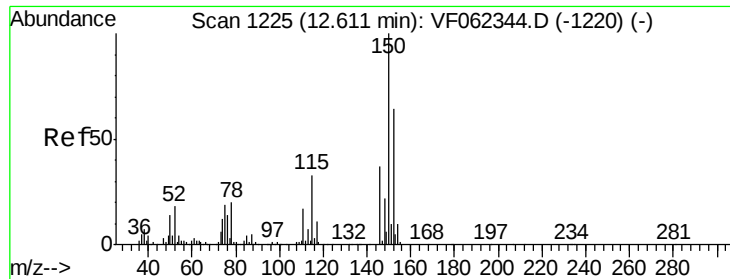


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



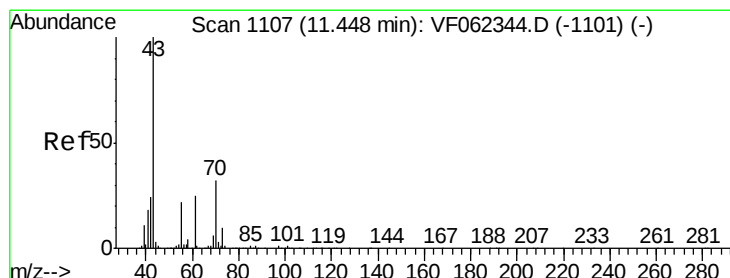
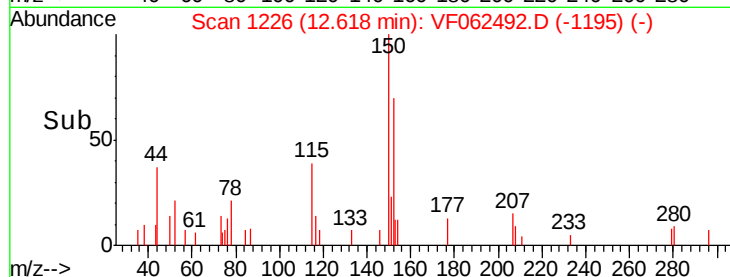
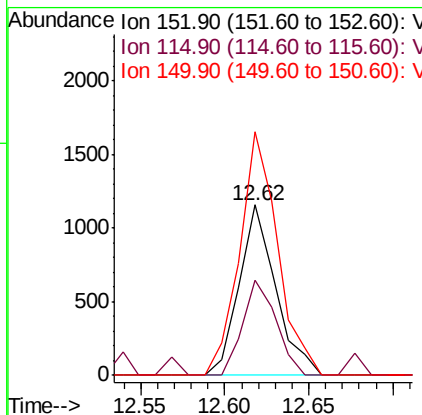
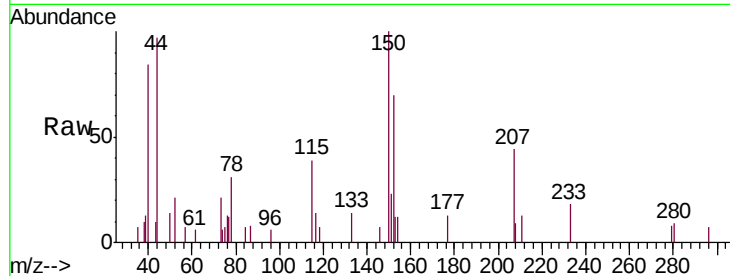


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-1218-01

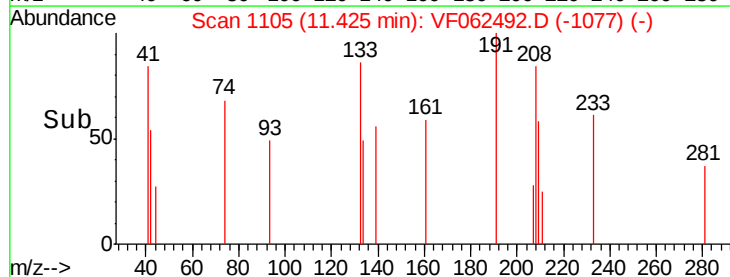
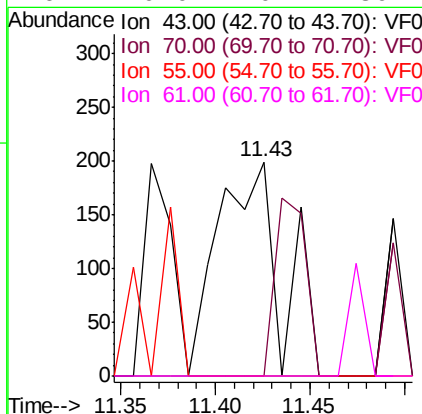
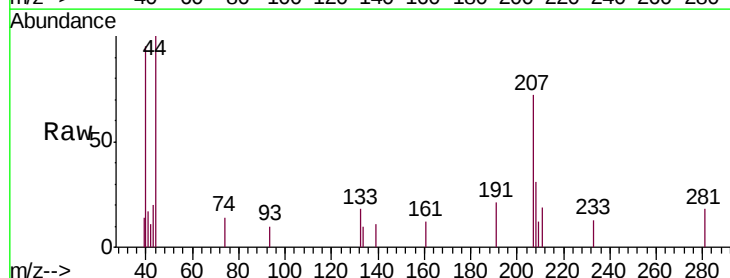
Tgt Ion: 152 Resp: 1738
Ion Ratio Lower Upper
152 100
115 51.0 26.4 79.2
150 148.7 0.0 335.0

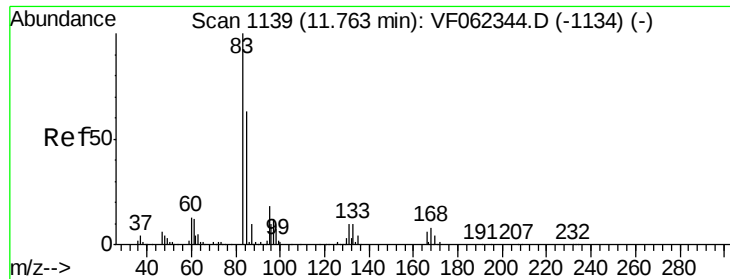


#74

N-ethyl acetate
Concen: 21.112 ug/l
RT: 11.43 min Scan# 1105
Delta R.T. -0.02 min
Lab File: VF062492.D
Acq: 12 May 2019 7:34

Tgt Ion: 43 Resp: 467
Ion Ratio Lower Upper
43 100
70 40.3 26.5 39.7#
55 0.0 17.8 26.6#
61 0.0 20.2 30.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 3.781 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

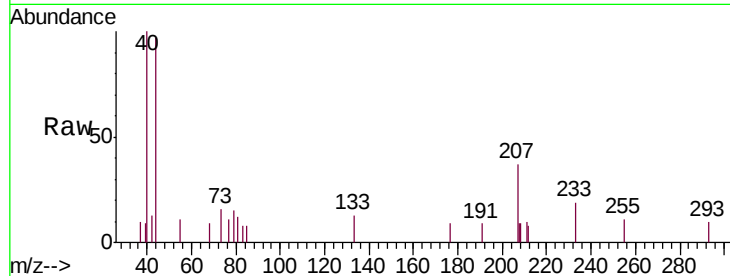
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

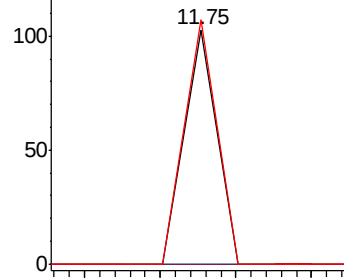
85 103.3 35.3 105.7



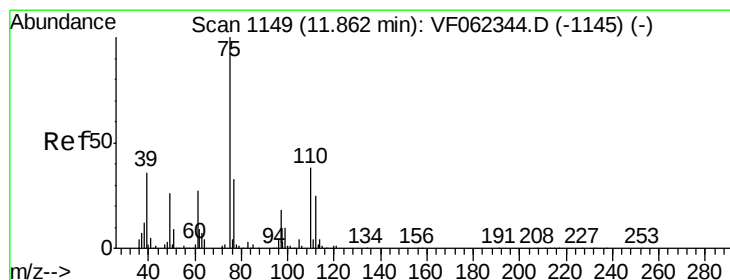
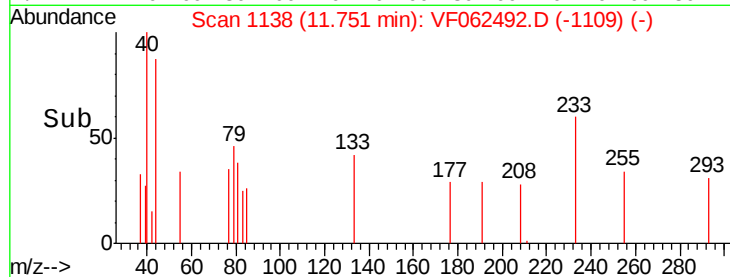
Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



Time-->



#76

1,2,3-Trichloropropane

Concen: 11.374 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. -0.03 min

Lab File: VF062492.D

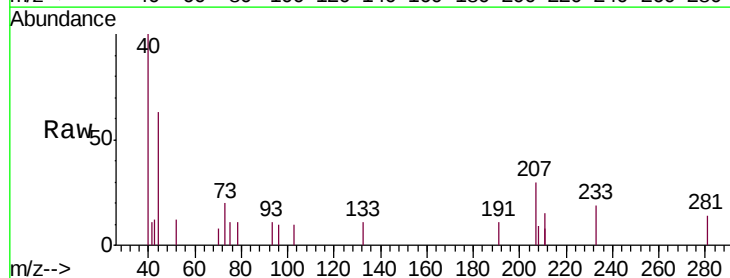
Acq: 12 May 2019 7:34

Tgt Ion: 75 Resp: 140

Ion Ratio Lower Upper

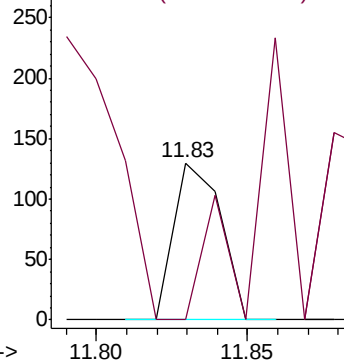
75 100

77 0.0 0.0 0.0

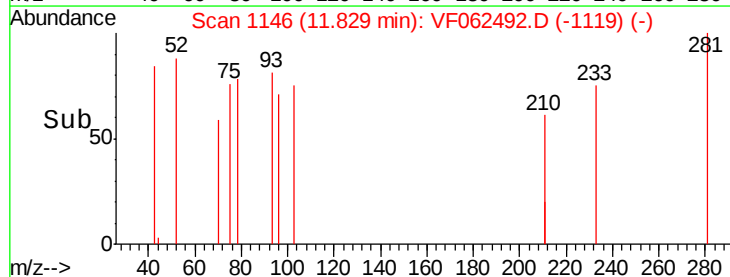


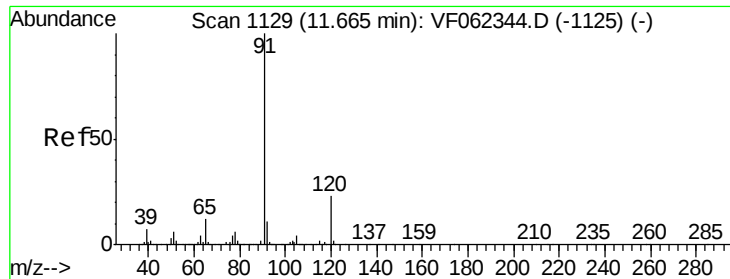
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time-->





#78

n-propylbenzene

Concen: 1.167 ug/l

RT: 11.65 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

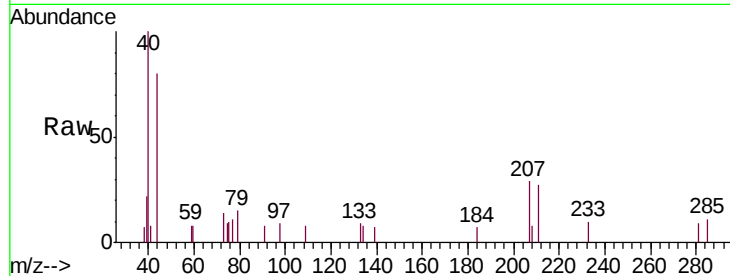
P021-SS006-1218-01

Tgt Ion: 91 Resp: 128

Ion Ratio Lower Upper

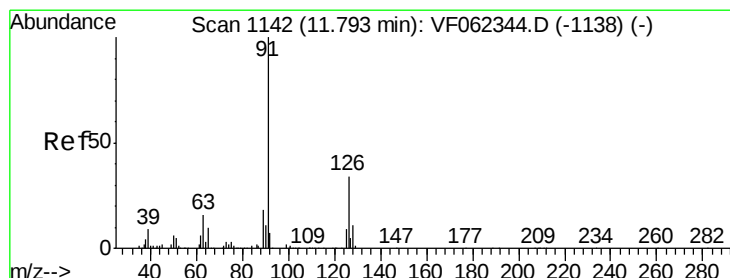
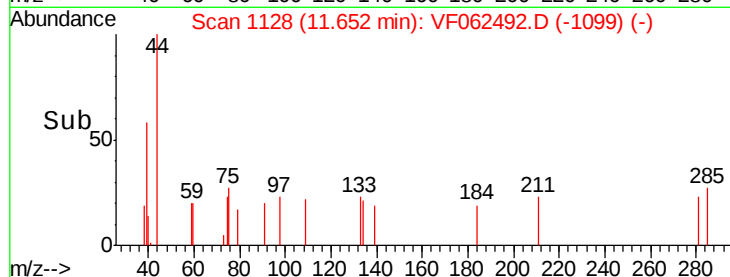
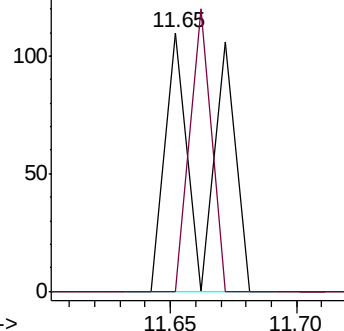
91 100

120 55.5 11.9 35.5#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.114 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062492.D

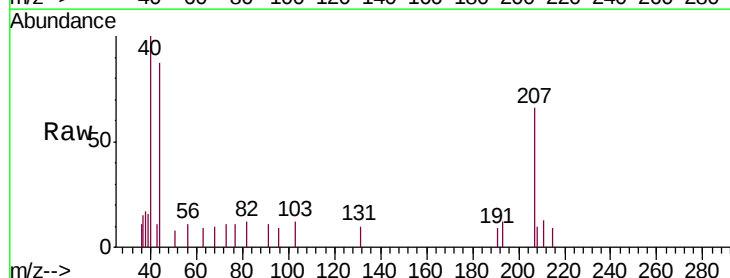
Acq: 12 May 2019 7:34

Tgt Ion: 91 Resp: 76

Ion Ratio Lower Upper

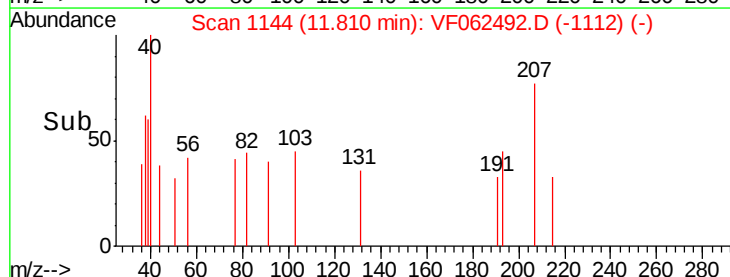
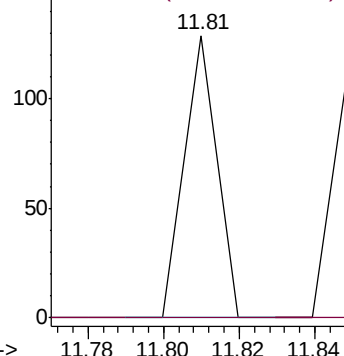
91 100

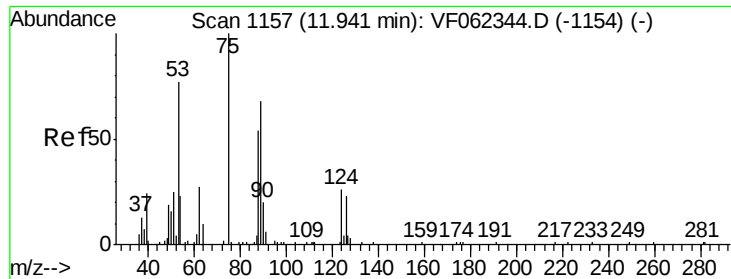
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 30.044 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.04 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

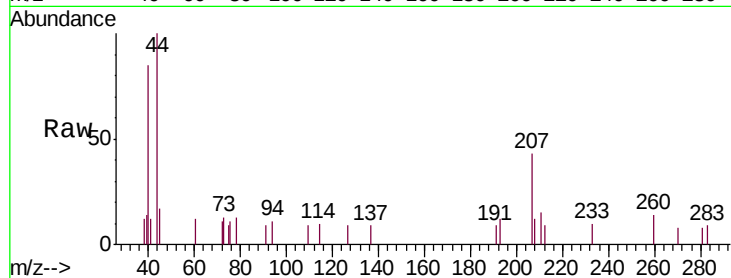
Tgt Ion: 75 Resp: 139

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

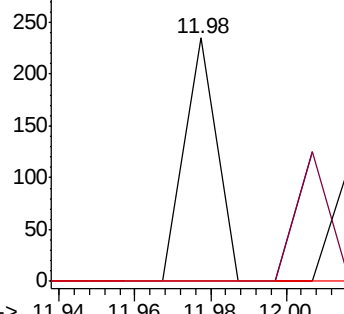
89 0.0 0.0 0.0



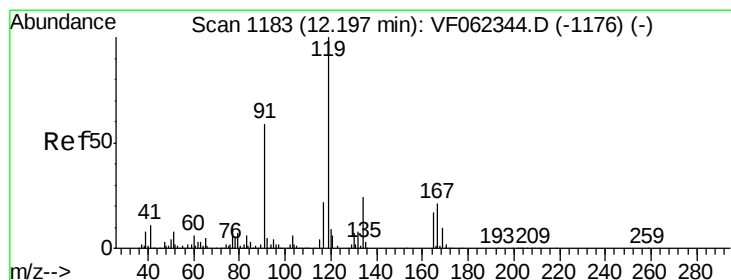
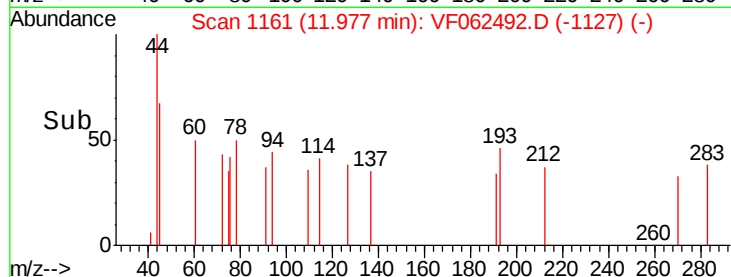
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



Time-->



#83

tert-Butylbenzene

Concen: 1.528 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

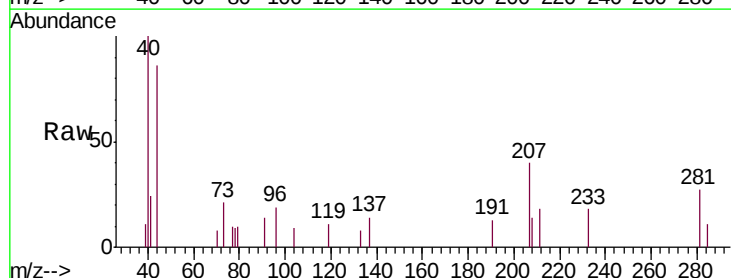
Tgt Ion: 119 Resp: 145

Ion Ratio Lower Upper

119 100

91 77.9 30.4 91.3

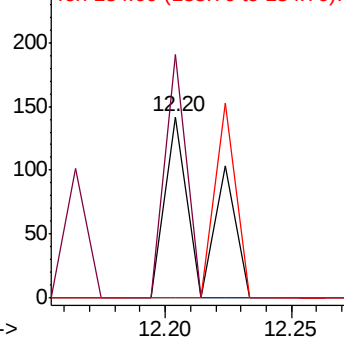
134 62.1 11.9 35.7#



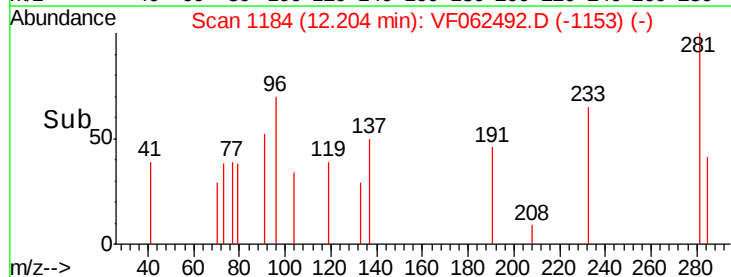
Abundance Ion 119.00 (118.70 to 119.70): V

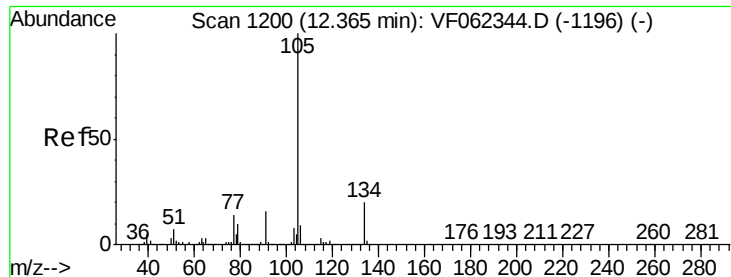
Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



Time-->

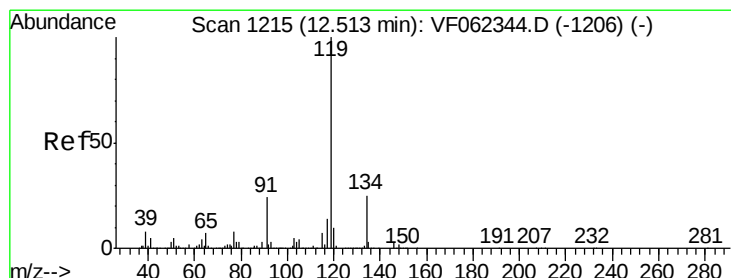
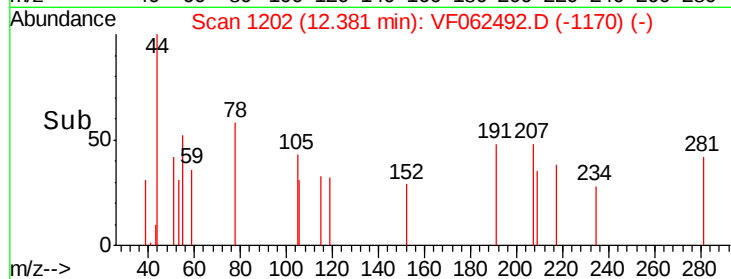
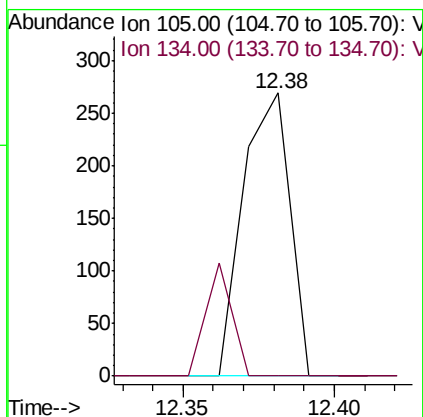
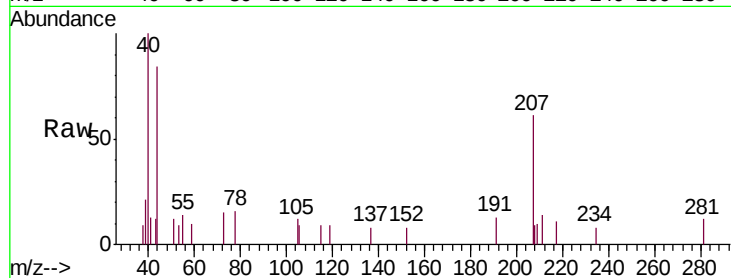




#85
 sec-Butylbenzene
 Concen: 2.493 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.02 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

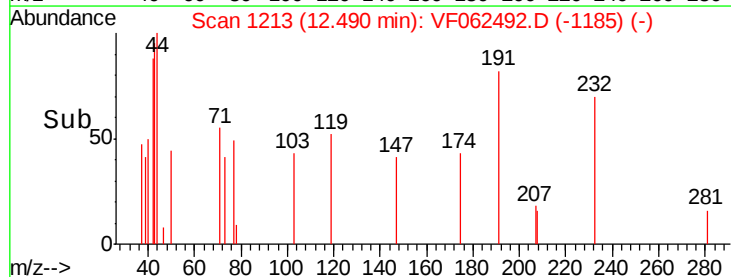
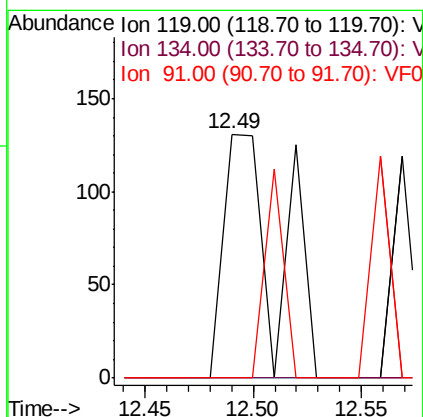
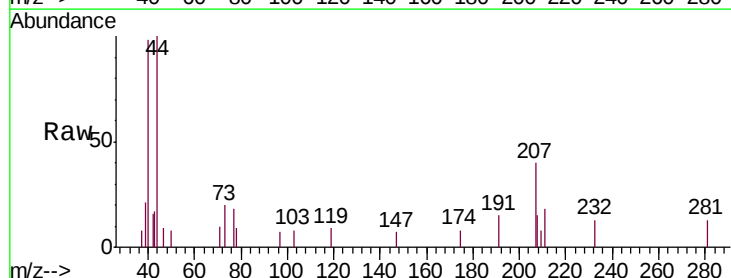
Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-1218-01

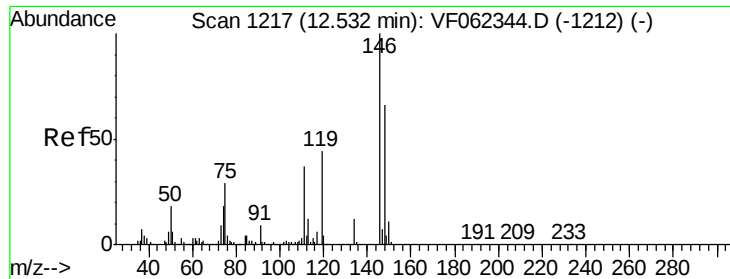
Tgt Ion:105 Resp: 288
 Ion Ratio Lower Upper
 105 100
 134 22.2 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 2.124 ug/l
 RT: 12.49 min Scan# 1213
 Delta R.T. -0.02 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Tgt Ion:119 Resp: 228
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.9 38.7#
 91 28.9 12.3 36.8

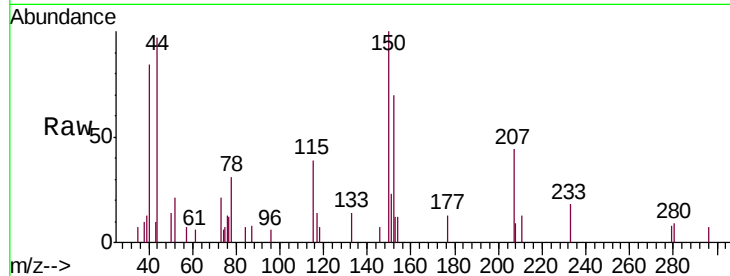




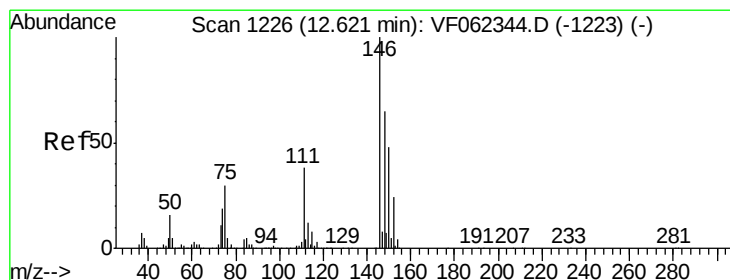
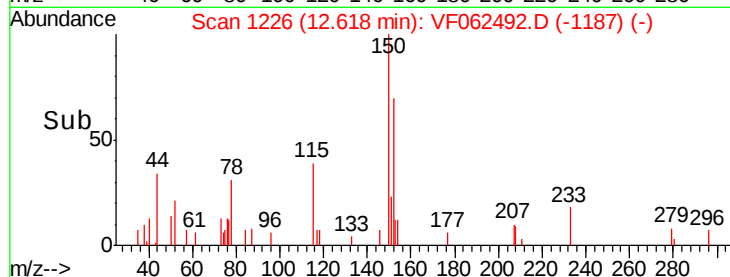
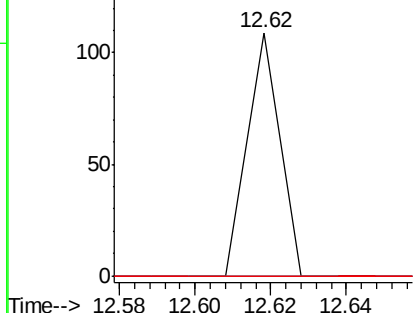
#87
 1,3-Dichlorobenzene
 Concen: 1.296 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. 0.09 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-1218-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.3	54.8#
148	0.0	32.3	96.9#

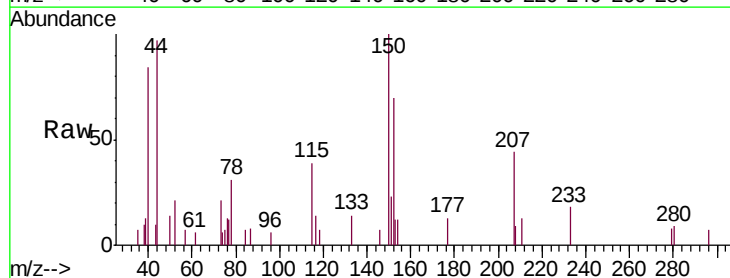


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

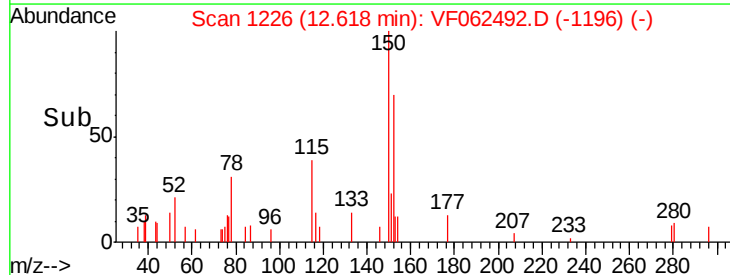
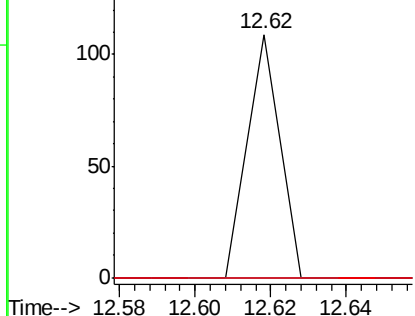


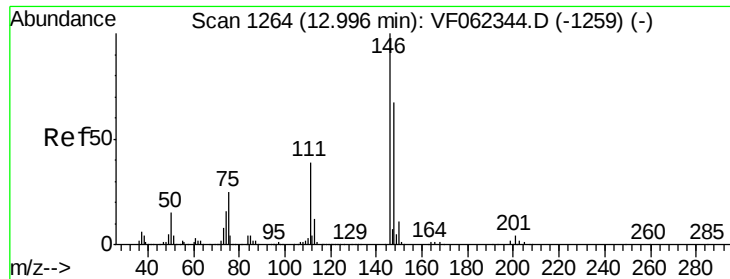
#88
 1,4-Dichlorobenzene
 Concen: 1.343 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. -0.00 min
 Lab File: VF062492.D
 Acq: 12 May 2019 7:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.8	56.3#
148	0.0	32.2	96.6#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.234 ug/l

RT: 12.83 min Scan# 1248

Delta R.T. -0.16 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

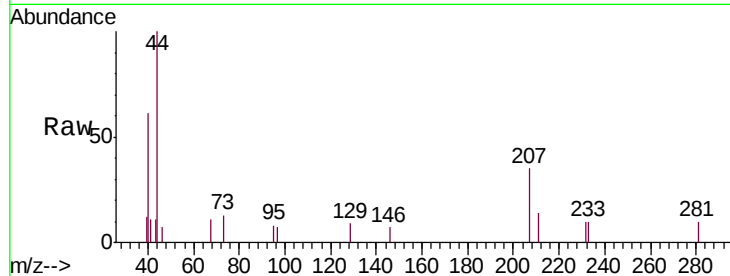
Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

Tgt Ion:	146	Resp:	59
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.0	60.0#
148	0.0	33.1	99.5#



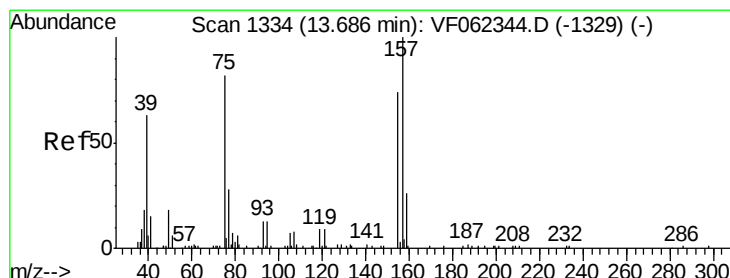
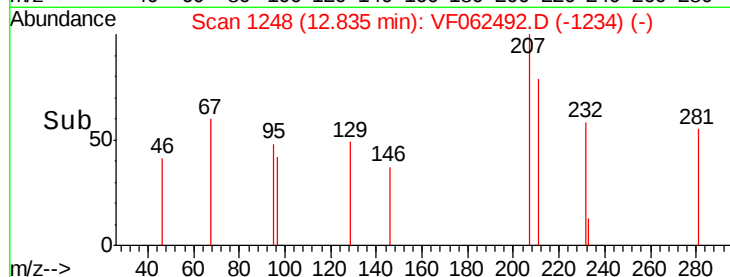
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

12.83

Time--> 12.80 12.82 12.84 12.86



#92

1,2-Dibromo-3-Chloropropane

Concen: 29.052 ug/l

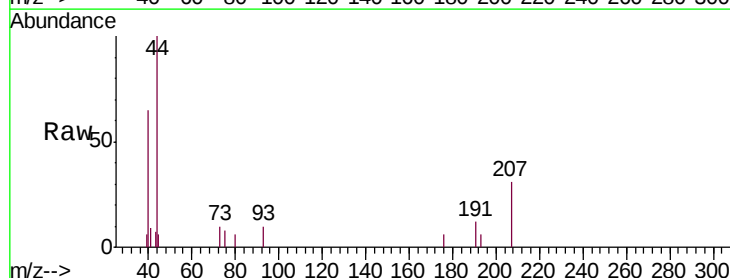
RT: 13.66 min Scan# 1332

Delta R.T. -0.02 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Tgt Ion:	75	Resp:	105
Ion	Ratio	Lower	Upper
75	100		
155	0.0	51.8	155.4#
157	0.0	67.3	201.8#



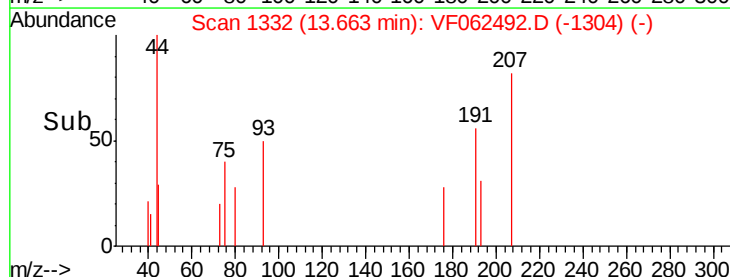
Abundance Ion 74.90 (74.60 to 75.60): VF0

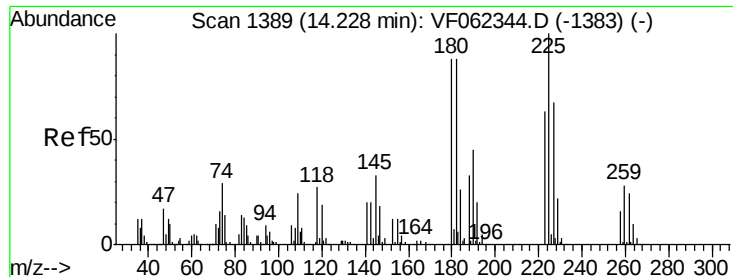
Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

13.66

Time--> 13.64 13.66 13.68





#94

Hexachlorobutadiene

Concen: 1.940 ug/l

RT: 14.02 min Scan# 1368

Delta R.T. -0.21 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

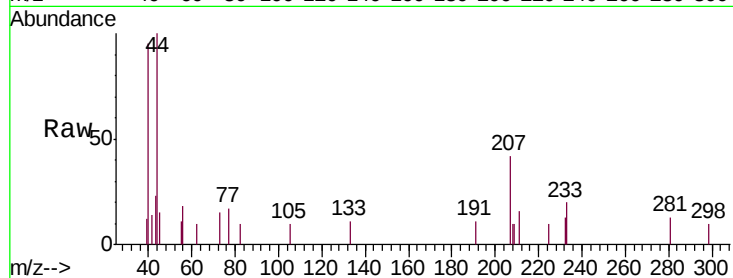
Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-1218-01

Tgt Ion:	225	Resp:	62
Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.9	95.5#
227	0.0	33.1	99.5#



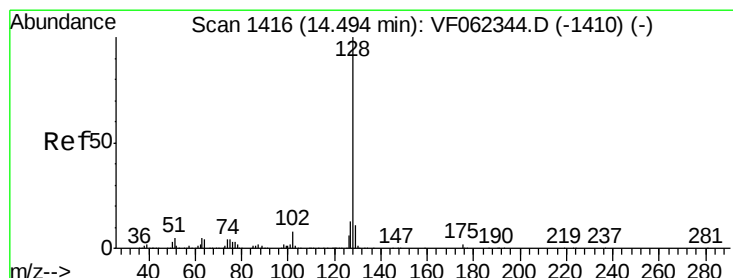
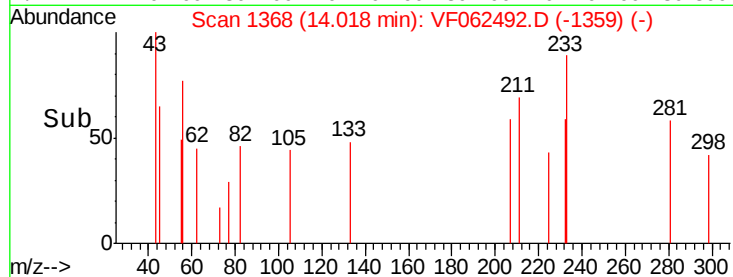
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

14.02

Time--> 13.98 14.00 14.02 14.04



#95

Naphthalene

Concen: 1.117 ug/l

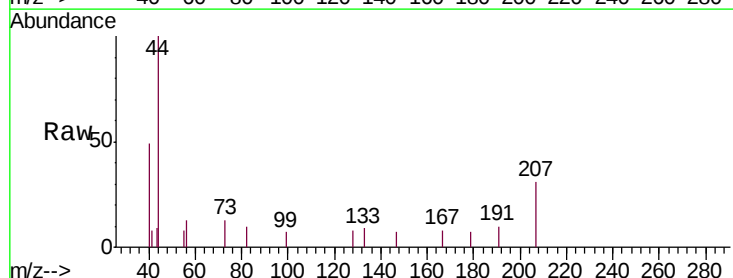
RT: 14.46 min Scan# 1413

Delta R.T. -0.03 min

Lab File: VF062492.D

Acq: 12 May 2019 7:34

Tgt Ion:	128	Resp:	72
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

14.46

Time--> 14.44 14.46 14.48

