

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031419\
 Data File : VF061941.D
 Acq On : 14 Mar 2019 16:26
 Operator : VA/AP
 Sample : K1921-01
 Misc : 6.16g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 282-346

Quant Time: Mar 15 01:17:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	762	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	744	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	60	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	198	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	73	13.15	ug/l	0.03
Spiked Amount						
			Recovery	=	26.30%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount						
			Recovery	=	0.00%	
50) Toluene-d8	7.55	98	527	34.15	ug/l	-0.02
Spiked Amount						
			Recovery	=	68.30%	
62) 4-Bromofluorobenzene	11.41	95	194	32.09	ug/l	0.00
Spiked Amount						
			Recovery	=	64.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.11	50	112	12.353	ug/l #	45
4) Vinyl Chloride	1.12	62	73	8.482	ug/l #	43
5) Bromomethane	1.32	94	228	38.871	ug/l #	3
10) Methyl Iodide	1.99	142	69	5.079	ug/l #	40
11) Tert butyl alcohol	2.45	59	118	374.640	ug/l #	64
12) 1,1-Dichloroethene	1.83	96	73	11.202	ug/l #	1
13) Acrolein	2.11	56	389	974.689	ug/l	87
14) Allyl chloride	2.07	41	1434	199.735	ug/l #	36
15) Acrylonitrile	2.97	53	353	351.964	ug/l #	30
16) Acetone	2.26	43	2043	1757.565	ug/l #	50
17) Carbon Disulfide	1.87	76	175	8.627	ug/l #	1
18) Methyl Acetate	2.38	43	1399	297.379	ug/l #	62
19) Methyl tert-butyl Ether	2.49	73	84	7.619	ug/l #	56
20) Methylene Chloride	2.19	84	163	22.331	ug/l #	56
21) trans-1,2-Dichloroethene	2.31	96	63	10.271	ug/l #	1
22) Diisopropyl ether	2.79	45	885	47.388	ug/l #	1
23) Vinyl Acetate	3.25	43	586	70.238	ug/l #	76
24) 1,1-Dichloroethane	2.86	63	65	5.823	ug/l #	85
25) 2-Butanone	4.34	43	184	77.820	ug/l #	56
27) cis-1,2-Dichloroethene	3.47	96	67	7.885	ug/l	1
28) Bromochloromethane	3.69	49	82	16.852	ug/l #	2
29) Tetrahydrofuran	4.10	42	250	245.168	ug/l #	33
31) Cyclohexane	3.71	56	63	5.388	ug/l #	1
32) 1,1,1-Trichloroethane	4.14	97	60	7.634	ug/l #	22
36) 1,1-Dichloropropene	4.21	75	66	9.391	ug/l #	41
37) Ethyl Acetate	4.09	43	222	75.258	ug/l #	20
39) Methylcyclohexane	5.36	83	59	7.108	ug/l #	15
41) Methacrylonitrile	4.73	41	149	92.192	ug/l #	24
43) Isopropyl Acetate	6.97	43	242	66.553	ug/l #	42
46) Dibromomethane	6.23	93	76	27.644	ug/l #	2
48) Methyl methacrylate	6.69	41	341	148.180	ug/l #	18
51) 4-Methyl-2-Pentanone	8.27	43	118	46.954	ug/l #	35
52) Toluene	7.60	92	124	11.410	ug/l #	1
53) t-1,3-Dichloropropene	8.24	75	71	14.162	ug/l #	40

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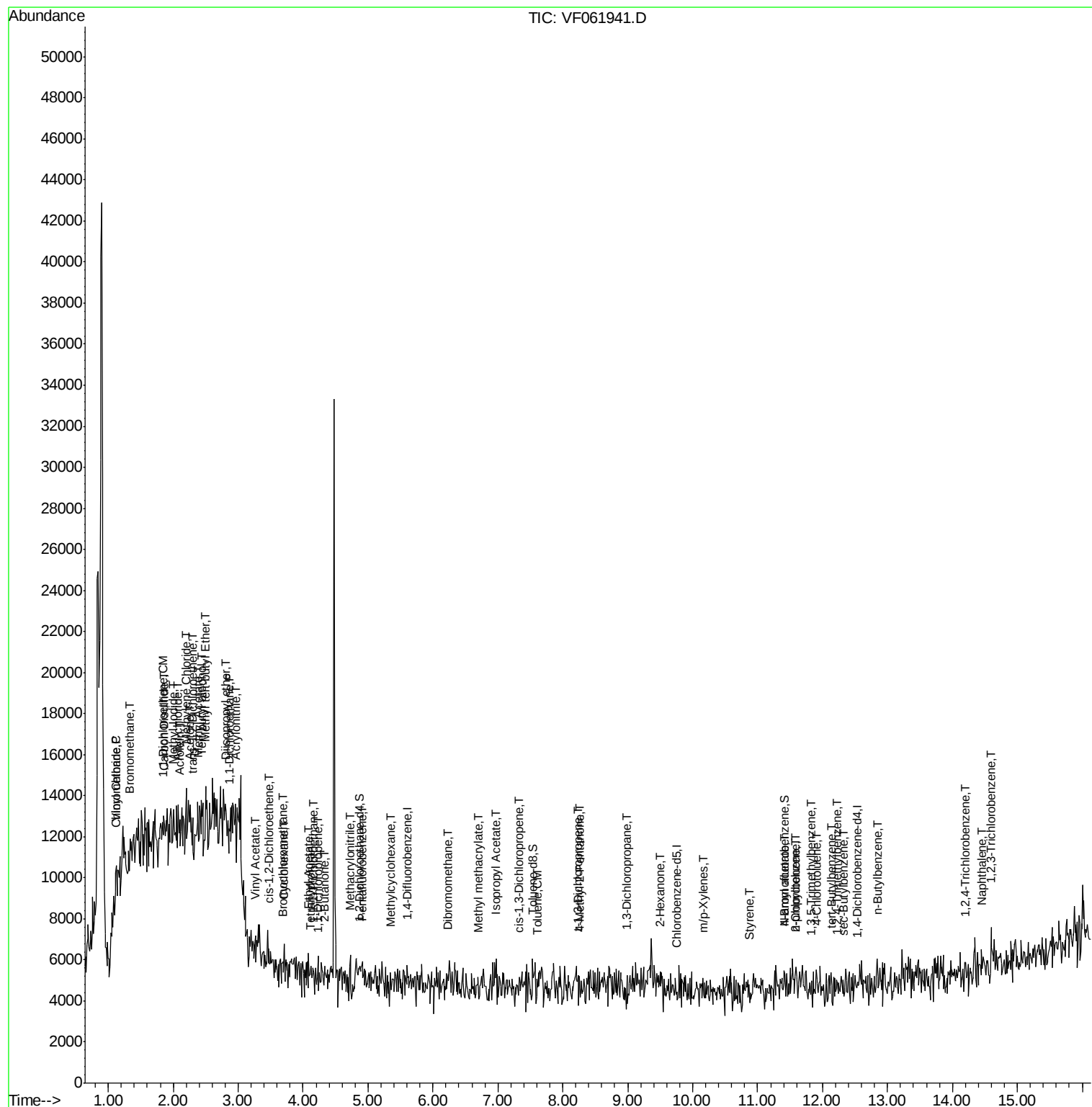
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) cis-1,3-Dichloropropene	7.32	75	77	11.135	ug/l #	36
57) 1,3-Dichloropropane	8.99	76	60	11.717	ug/l #	43
59) 2-Hexanone	9.49	43	127	70.050	ug/l #	22
68) m/p-Xylenes	10.16	106	59	80.609	ug/l #	1
70) Styrene	10.87	104	95	85.649	ug/l #	33
74) N-amyl acetate	11.41	43	257	81.896	ug/l #	42
78) n-propylbenzene	11.57	91	64	4.158	ug/l #	54
79) 2-Chlorotoluene	11.57	91	64	7.272	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.82	105	86	7.858	ug/l #	24
82) 4-Chlorotoluene	11.90	91	143	15.886	ug/l #	41
83) tert-Butylbenzene	12.14	119	64	5.507	ug/l #	36
84) 1,2,4-Trimethylbenzene	12.21	105	76	7.084	ug/l #	26
85) sec-Butylbenzene	12.32	105	180	11.903	ug/l #	57
89) n-Butylbenzene	12.84	91	159	12.943	ug/l #	26
93) 1,2,4-Trichlorobenzene	14.19	180	67	16.193	ug/l #	11
95) Naphthalene	14.46	128	509	69.070	ug/l #	55
96) 1,2,3-Trichlorobenzene	14.60	180	173	45.285	ug/l #	10

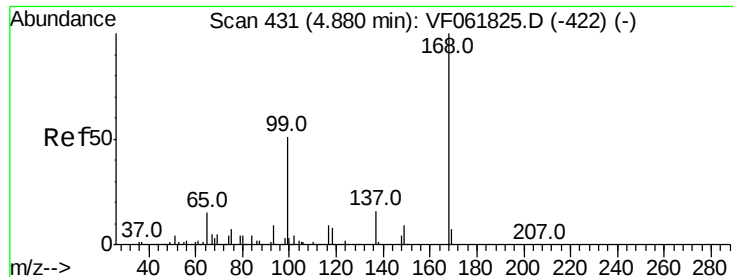
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

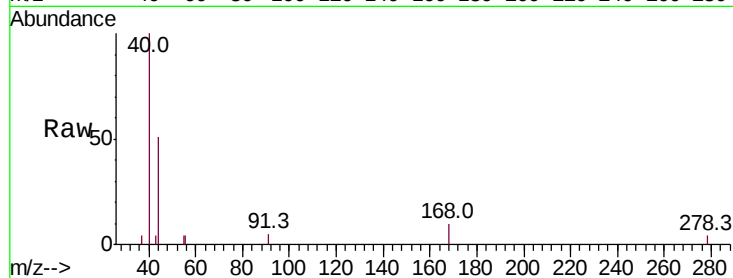
282-346

Tot Ion:168 Resp: 762

Ion Ratio Lower Upper

168 100

99 0.0 40.8 61.2#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

300

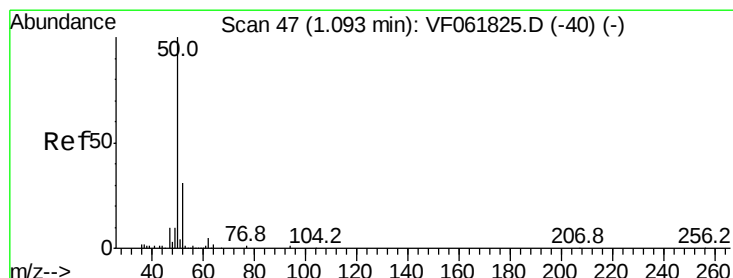
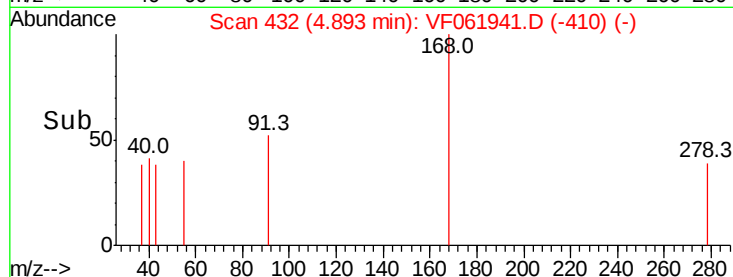
200

100

0

4.80 4.85 4.90

Time-->



#3

Chloromethane

Concen: 12.353 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061941.D

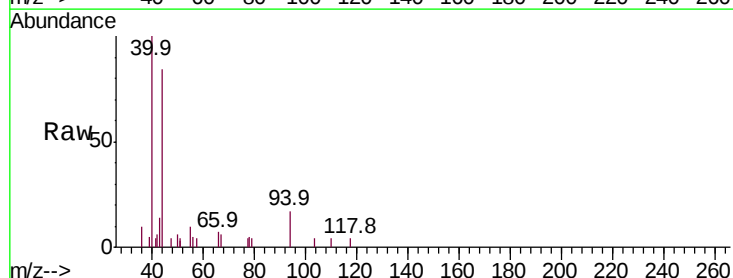
Acq: 14 Mar 2019 16:26

Tgt Ion: 50 Resp: 112

Ion Ratio Lower Upper

50 100

52 0.0 23.8 35.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.11

200

150

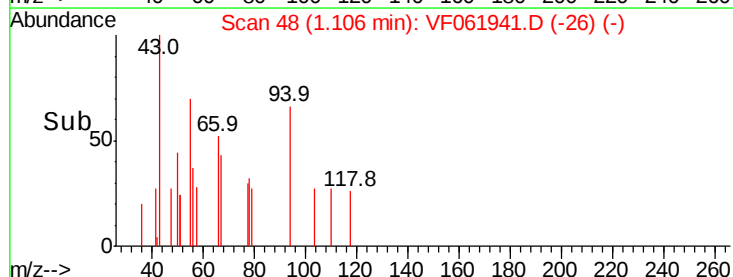
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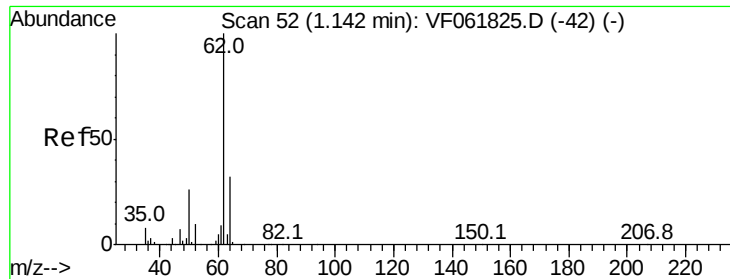
50

0

1.08 1.10 1.12 1.14

Time-->





#4

Vinyl Chloride

Concen: 8.482 ug/l

RT: 1.12 min Scan# 49

Delta R.T. -0.03 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

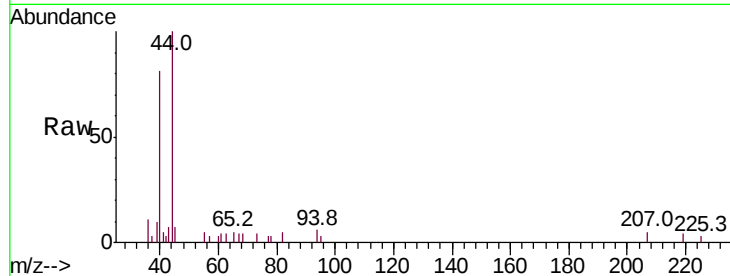
282-346

Tot Ion: 62 Resp: 73

Ion Ratio Lower Upper

62 100

64 0.0 25.2 37.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

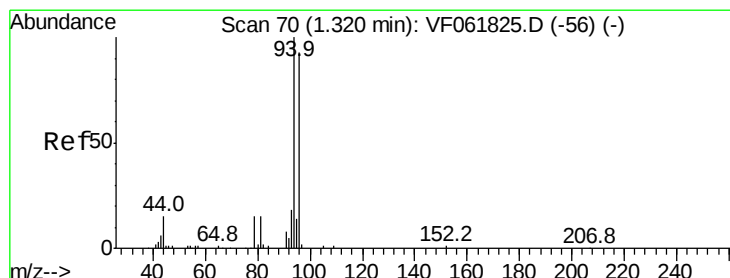
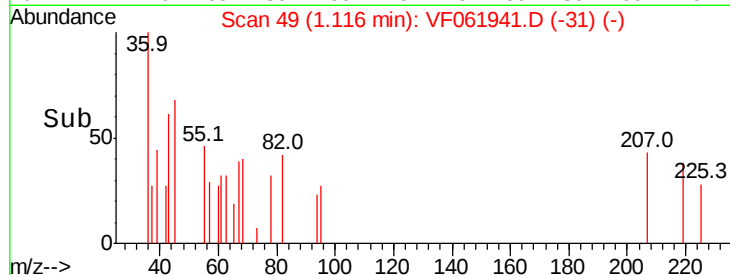
1.12

100

50

0

Time-->



#5

Bromomethane

Concen: 38.871 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061941.D

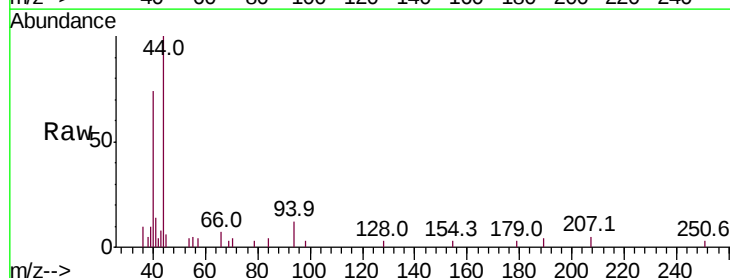
Acq: 14 Mar 2019 16:26

Tgt Ion: 94 Resp: 228

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.32

400

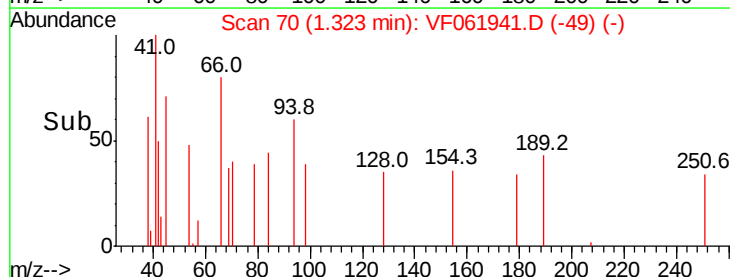
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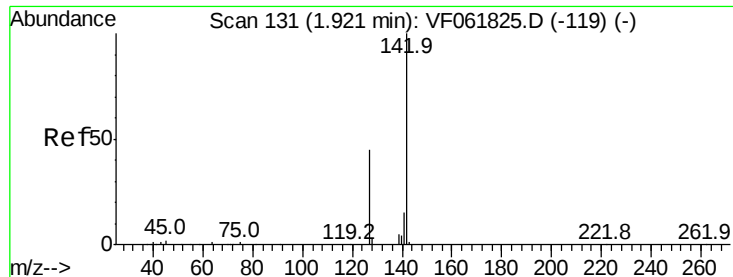
200

100

0

Time-->

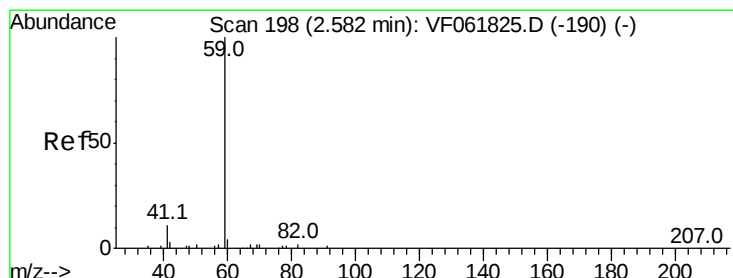
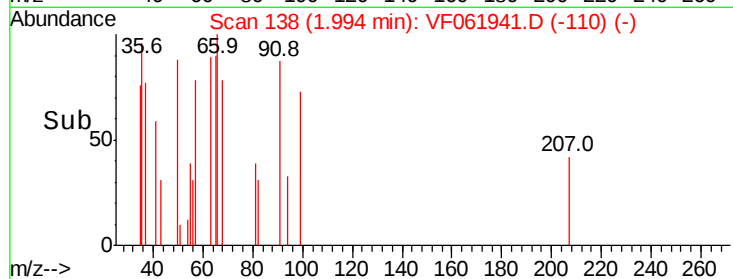
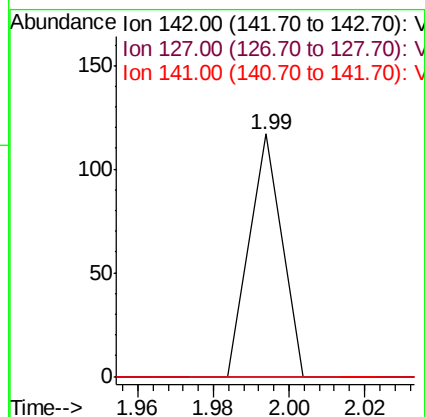
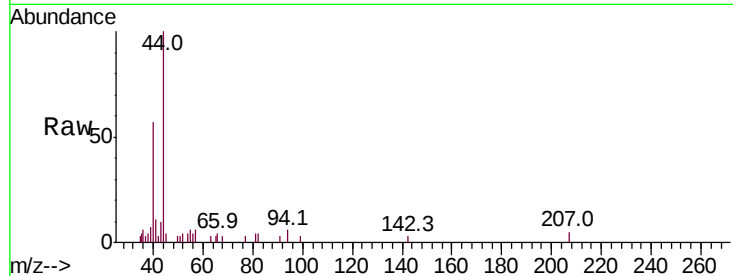




#10
Methyl Iodide
Concen: 5.079 ug/l
RT: 1.99 min Scan# 138
Delta R.T. 0.07 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

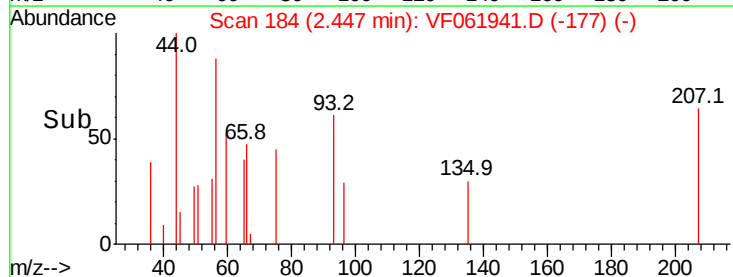
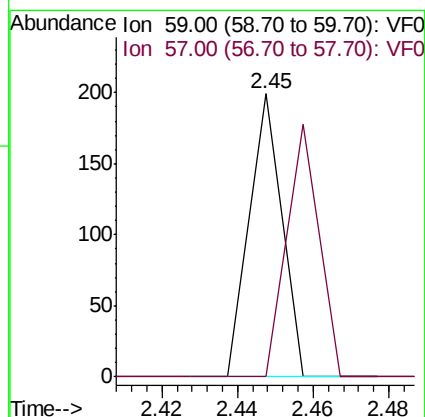
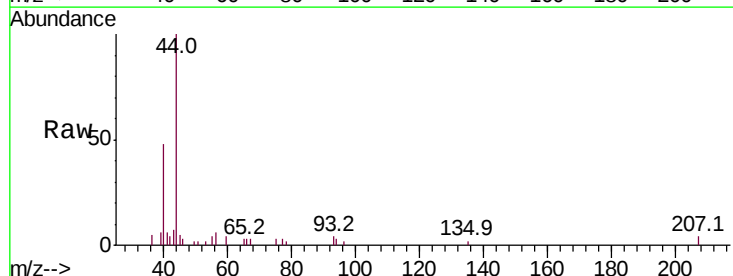
Instrument :
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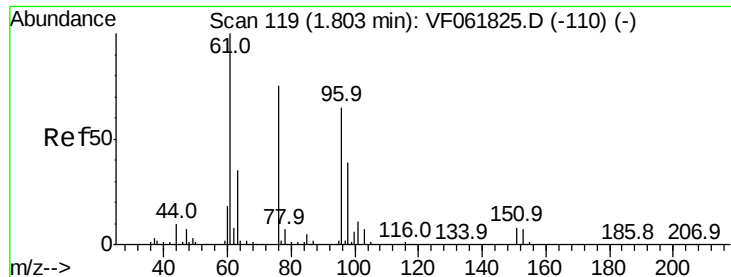
Tot Ion:142 Resp: 69
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 374.640 ug/l
RT: 2.45 min Scan# 184
Delta R.T. -0.13 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion: 59 Resp: 118
Ion Ratio Lower Upper
59 100
57 0.0 11.8 17.6#





#12

1,1-Dichloroethene

Concen: 11.202 ug/l

RT: 1.83 min Scan# 121

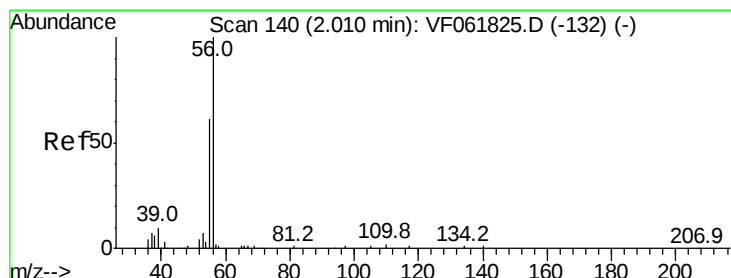
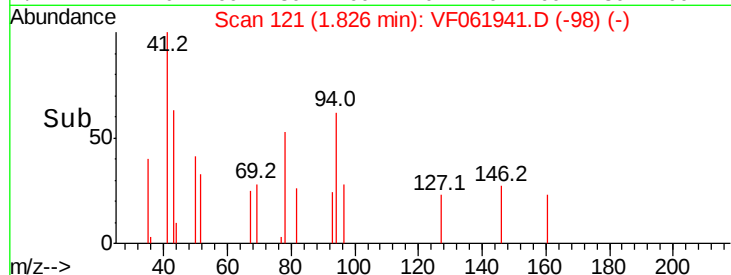
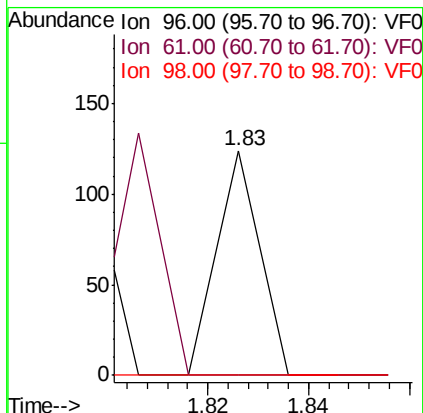
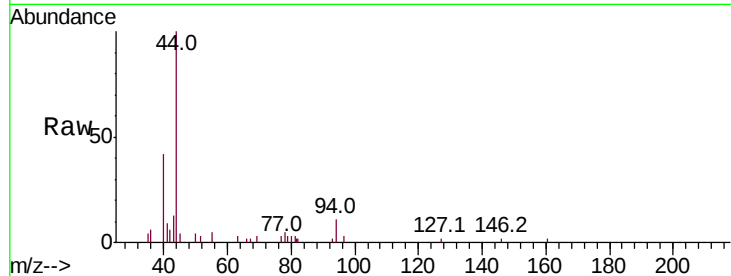
Delta R.T. 0.02 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :
MSVOA_F
ClientSampled :
282-346

Tot Ion:	96	Resp:	73
Ion	Ratio	Lower	Upper
96	100		
61	0.0	122.5	183.7#
98	0.0	47.1	70.7#



#13

Acrolein

Concen: 974.689 ug/l

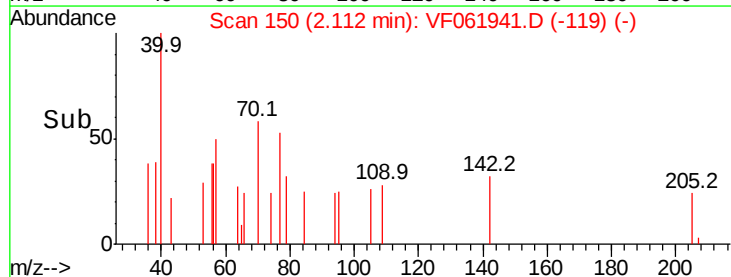
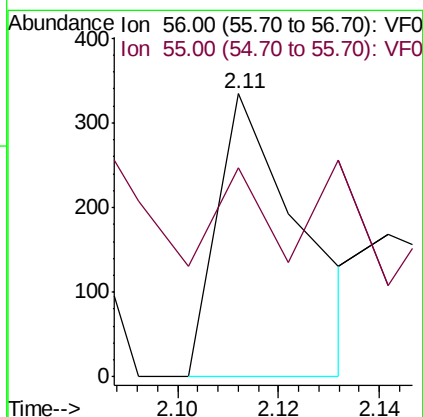
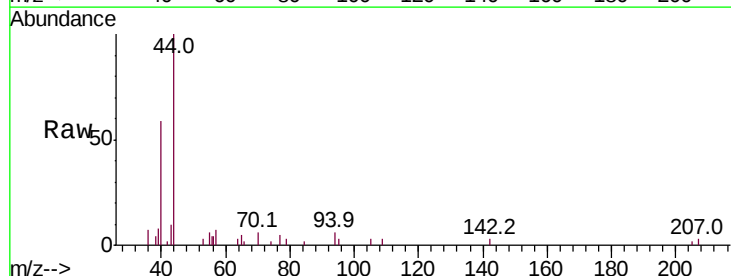
RT: 2.11 min Scan# 150

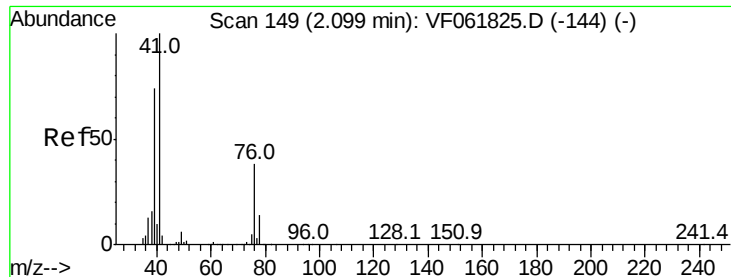
Delta R.T. 0.10 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Tgt Ion:	56	Resp:	389
Ion	Ratio	Lower	Upper
56	100		
55	74.0	51.3	76.9

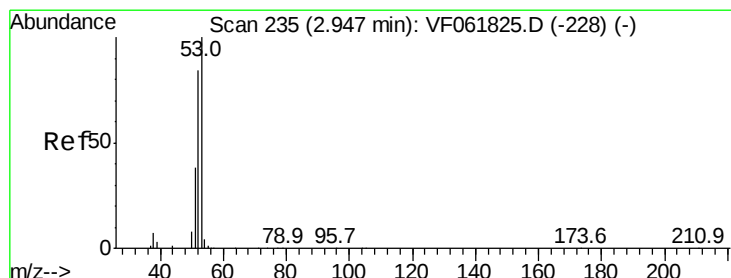
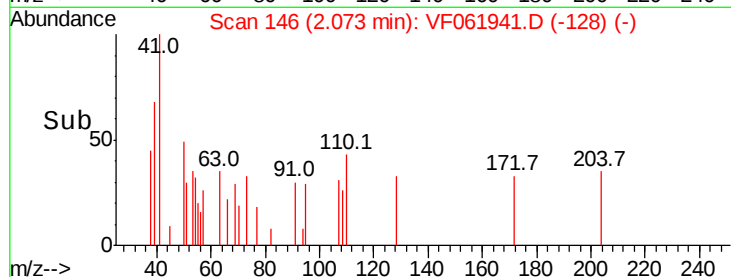
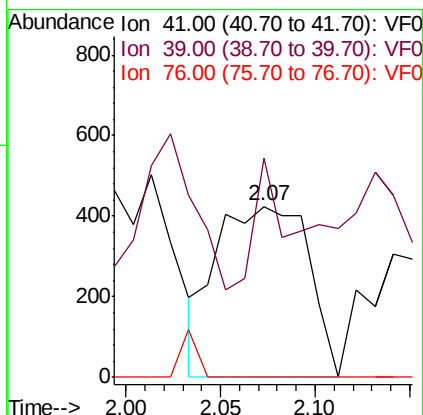
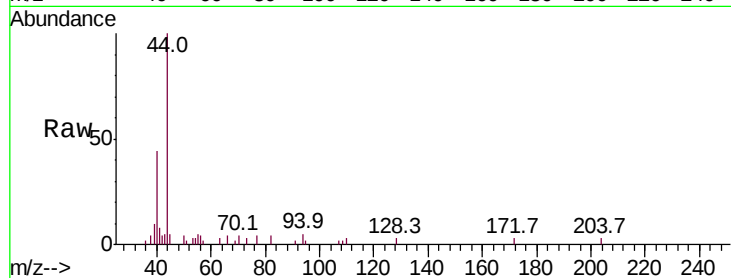




#14
Allvl chloride
Concen: 199.735 ug/l
RT: 2.07 min Scan# 146
Delta R.T. -0.03 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

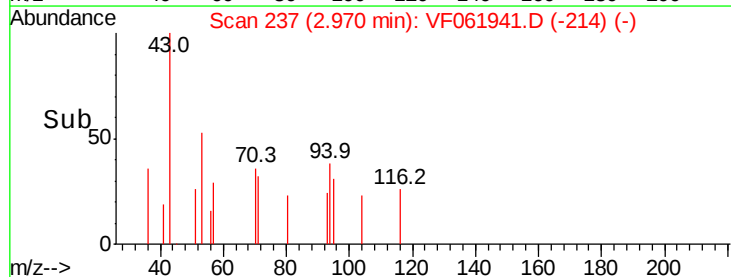
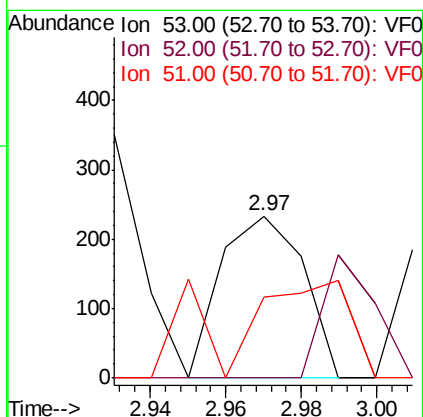
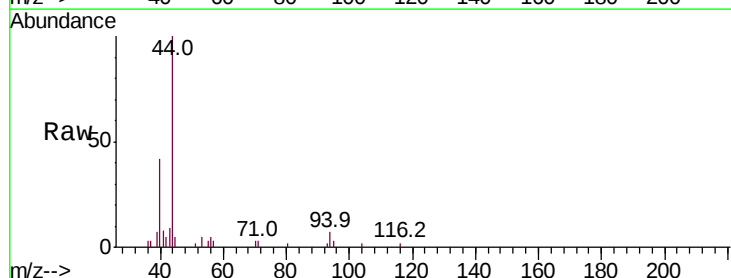
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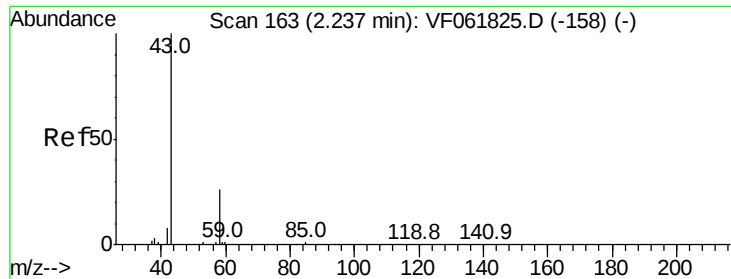
Tot Ion: 41 Resp: 1434
Ion Ratio Lower Upper
41 100
39 128.2 59.6 89.4#
76 0.0 32.3 48.5#



#15
Acrylonitrile
Concen: 351.964 ug/l
RT: 2.97 min Scan# 237
Delta R.T. 0.02 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion: 53 Resp: 353
Ion Ratio Lower Upper
53 100
52 0.0 67.4 101.0#
51 50.2 30.7 46.1#

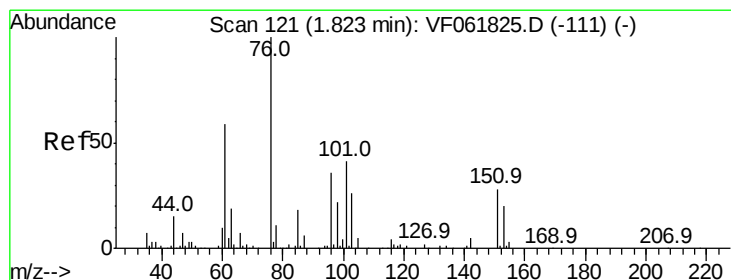
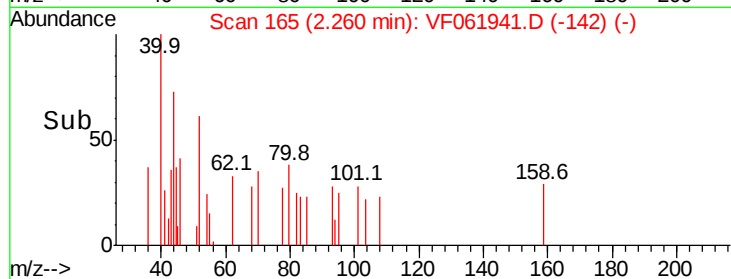
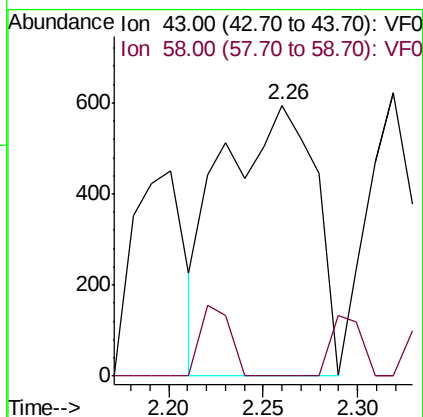
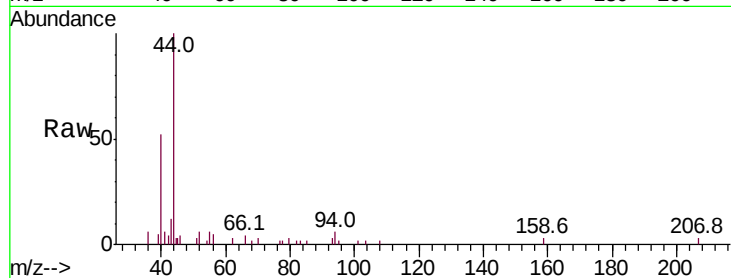




#16
Acetone
Concen: 1757.565 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.02 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

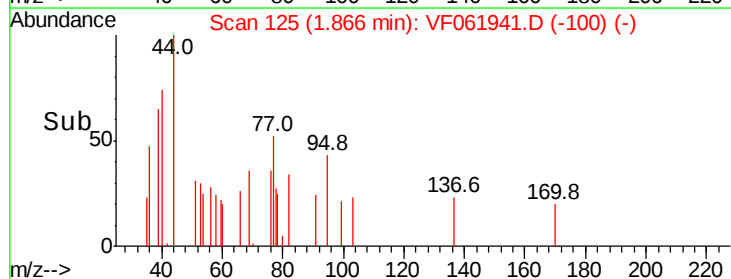
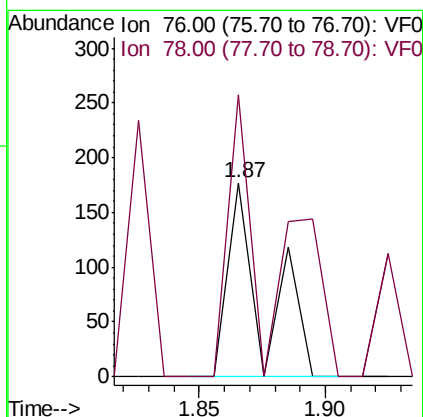
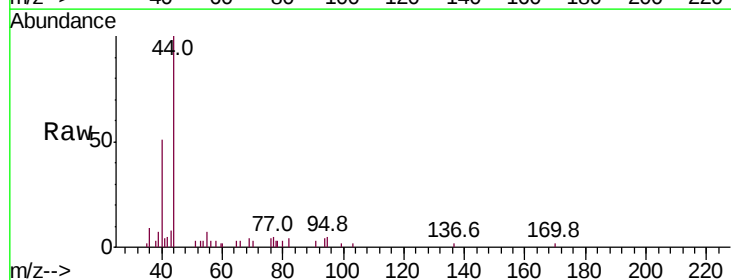
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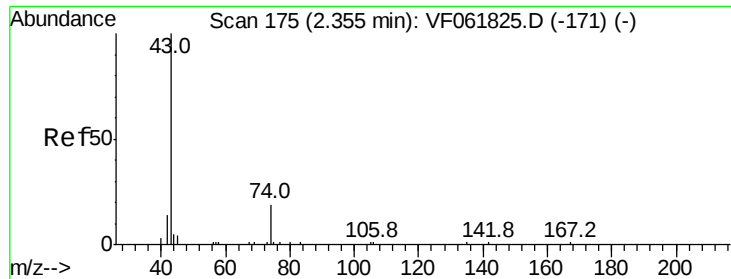
Tot Ion: 43 Resp: 2043
Ion Ratio Lower Upper
43 100
58 0.0 20.3 30.5#



#17
Carbon Disulfide
Concen: 8.627 ug/l
RT: 1.87 min Scan# 125
Delta R.T. 0.04 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion: 76 Resp: 175
Ion Ratio Lower Upper
76 100
78 145.8 9.1 13.7#

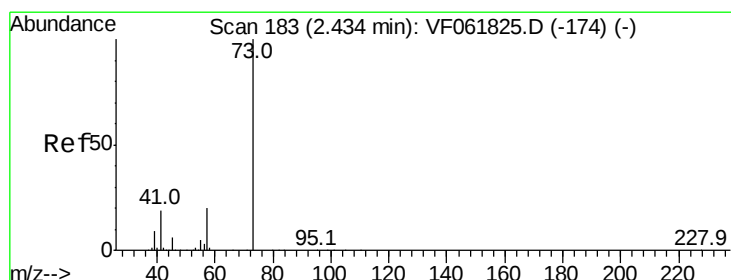
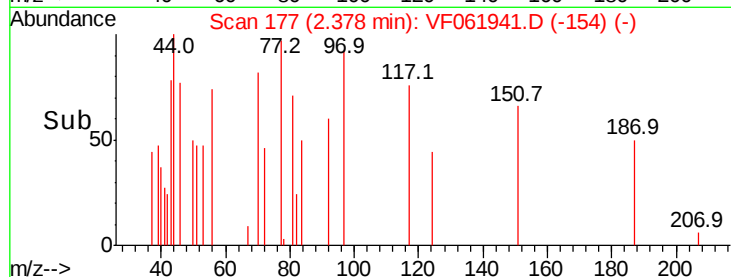
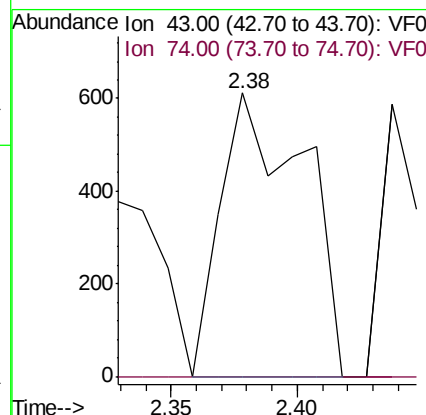
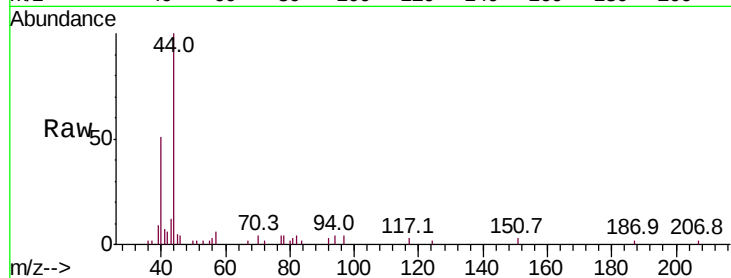




#18
Methyl Acetate
Concen: 297.379 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

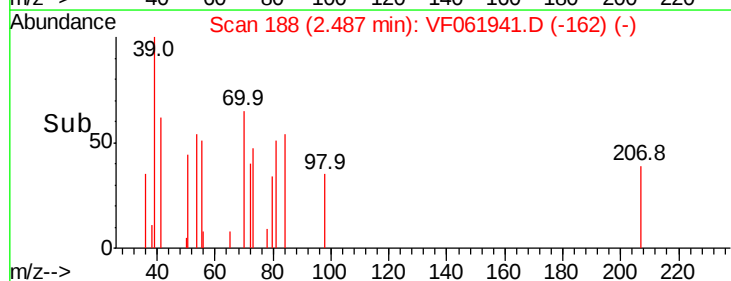
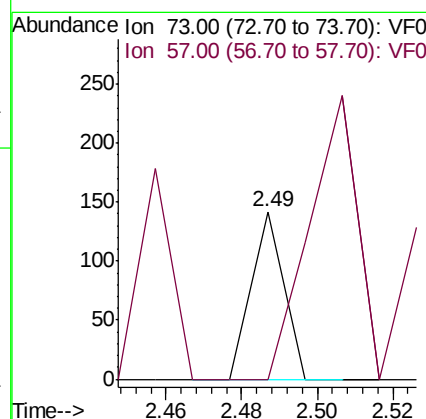
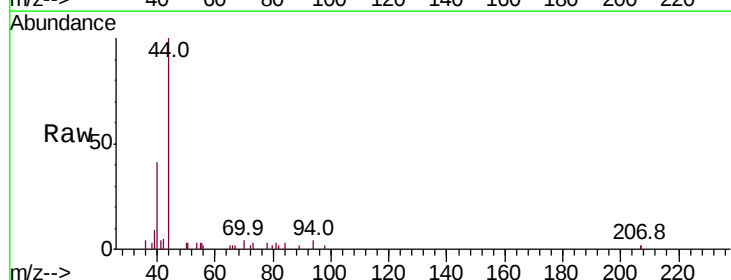
Instrument :
MSVOA_F
ClientSampleId :
282-346

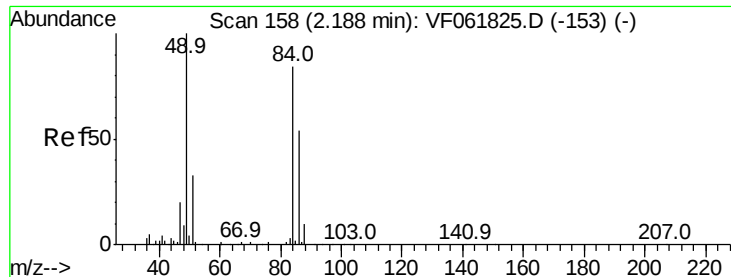
Tot Ion: 43 Resp: 1399
Ion Ratio Lower Upper
43 100
74 0.0 13.2 19.8#



#19
Methyl tert-butyl Ether
Concen: 7.619 ug/l
RT: 2.49 min Scan# 188
Delta R.T. 0.05 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion: 73 Resp: 84
Ion Ratio Lower Upper
73 100
57 0.0 16.1 24.1#





#20

Methylene Chloride

Concen: 22.331 ug/l

RT: 2.19 min Scan# 158

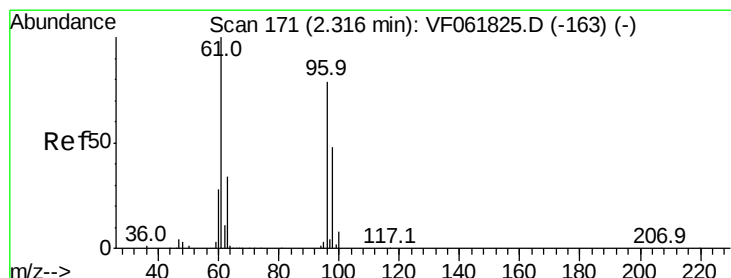
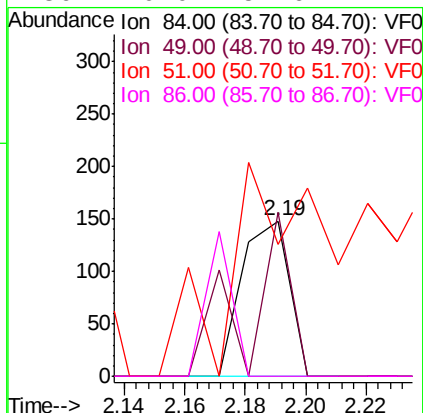
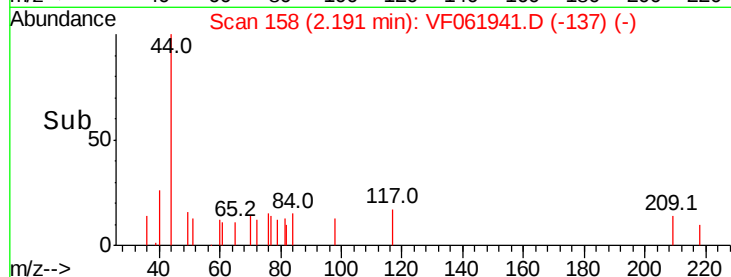
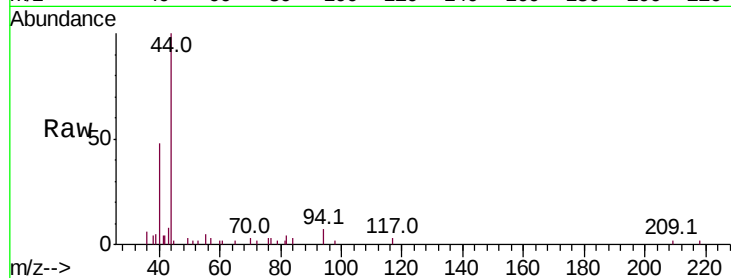
Delta R.T. 0.00 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :
MSVOA_F
ClientSampled :
282-346

Tot Ion:	84	Resp:	163
Ion	Ratio	Lower	Upper
84	100		
49	105.4	96.8	145.2
51	85.1	31.8	47.6#
86	0.0	51.6	77.4#



#21

trans-1,2-Dichloroethene

Concen: 10.271 ug/l

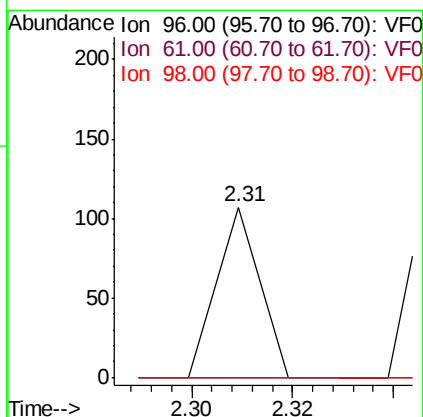
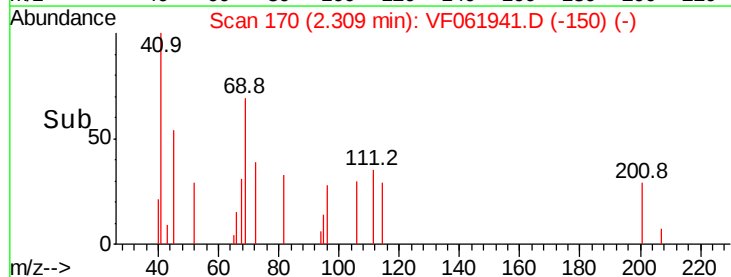
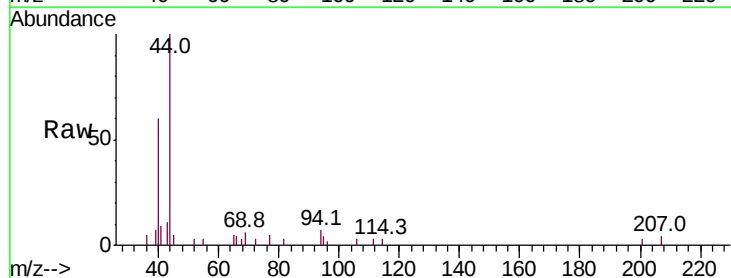
RT: 2.31 min Scan# 170

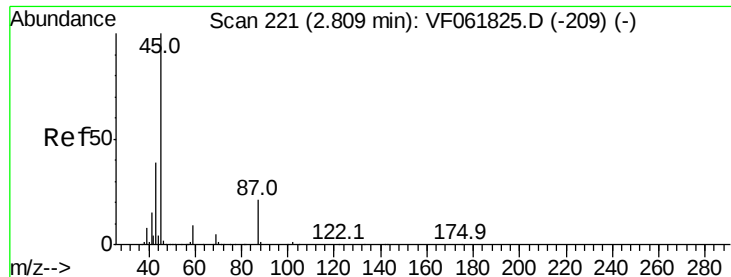
Delta R.T. -0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Tgt Ion:	96	Resp:	63
Ion	Ratio	Lower	Upper
96	100		
61	0.0	101.0	151.6#
98	0.0	48.8	73.2#





#22

Diisopropyl ether

Concen: 47.388 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

Tot Ion: 45 Resp: 885

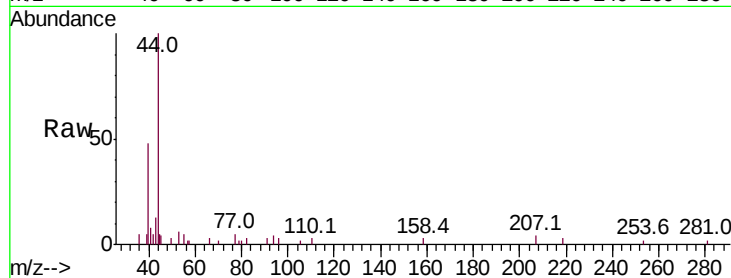
Ion Ratio Lower Upper

45 100

43 139.3 31.8 47.8#

87 0.0 17.1 25.7#

59 0.0 7.8 11.6#



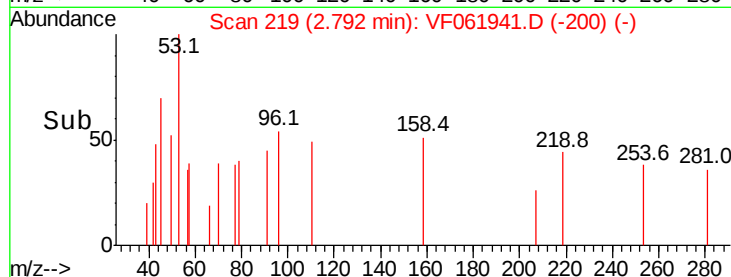
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

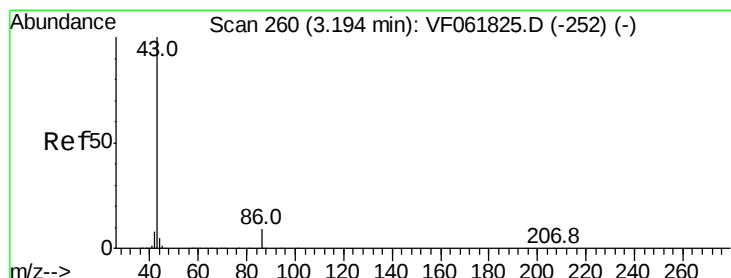
Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0

Time-->



Time-->



#23

Vinyl Acetate

Concen: 70.238 ug/l

RT: 3.25 min Scan# 265

Delta R.T. 0.05 min

Lab File: VF061941.D

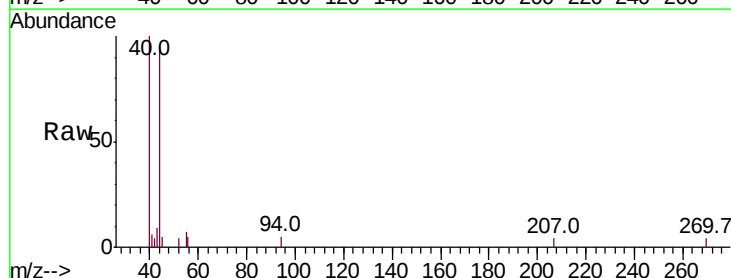
Acq: 14 Mar 2019 16:26

Tgt Ion: 43 Resp: 586

Ion Ratio Lower Upper

43 100

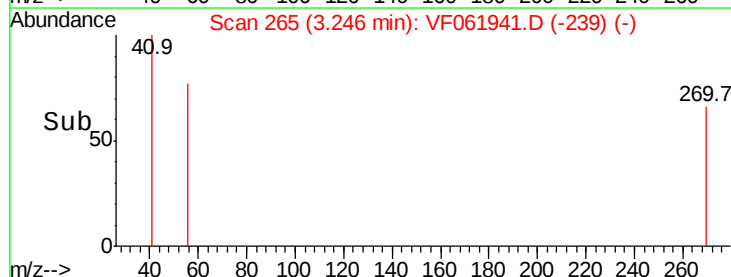
86 0.0 7.0 10.4#



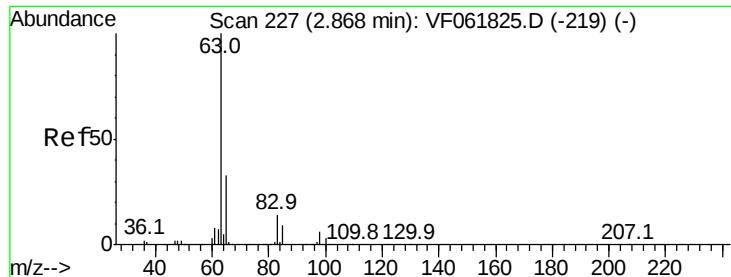
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

Time-->



Time-->



#24

1,1-Dichloroethane

Concen: 5.823 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

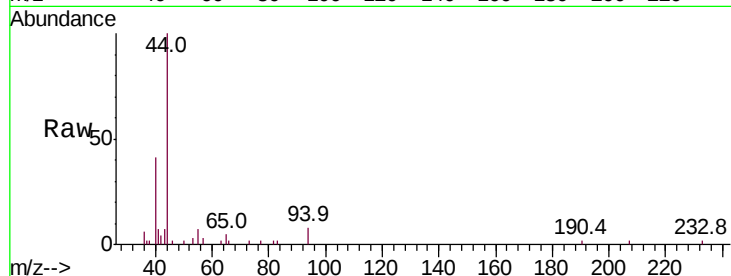
Tot Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

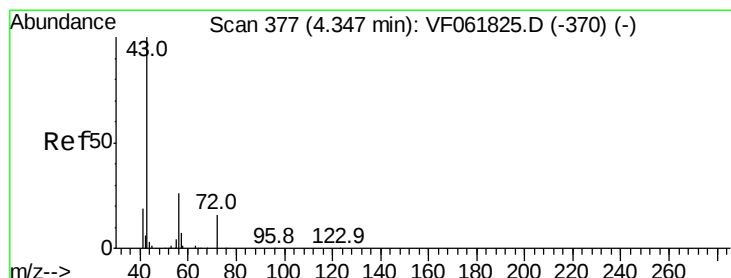
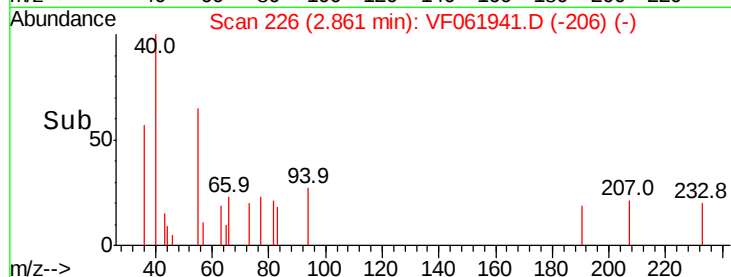
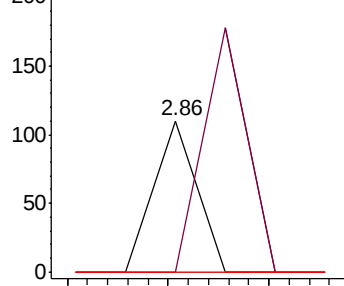
100 0.0 1.8 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 77.820 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061941.D

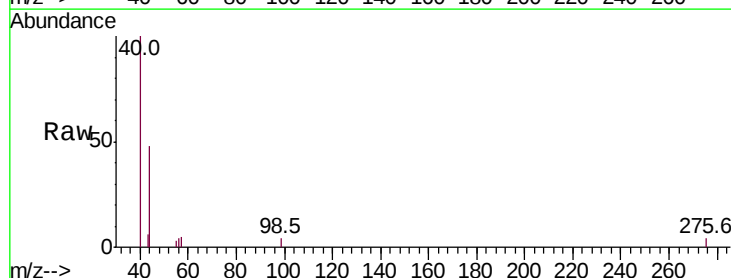
Acq: 14 Mar 2019 16:26

Tgt Ion: 43 Resp: 184

Ion Ratio Lower Upper

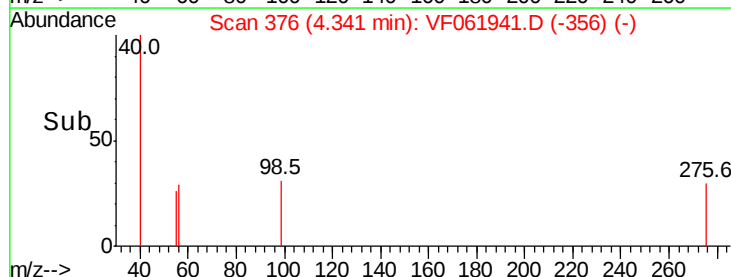
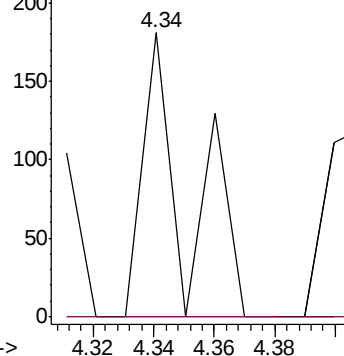
43 100

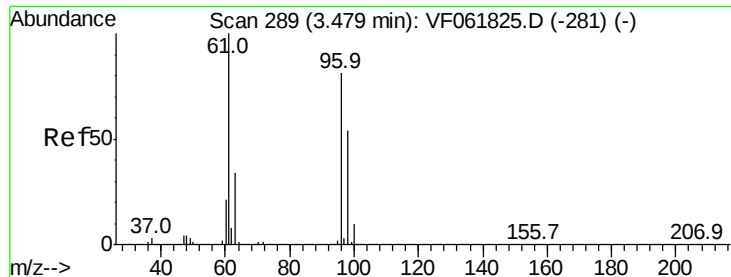
72 0.0 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



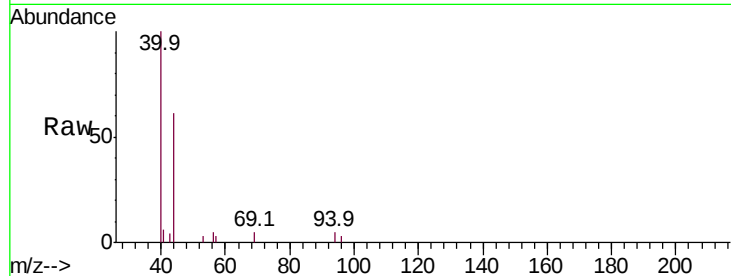


#27

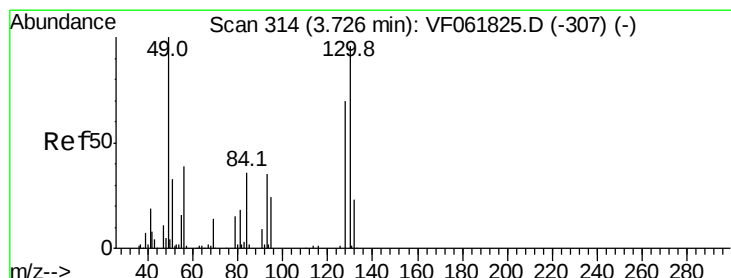
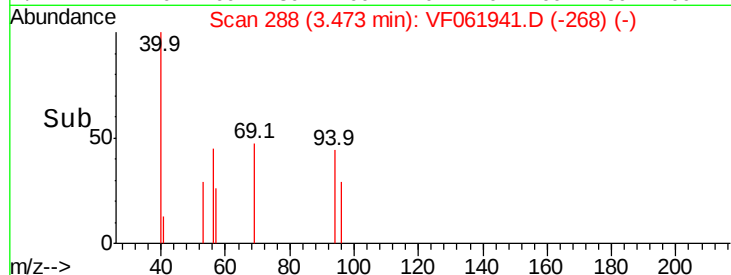
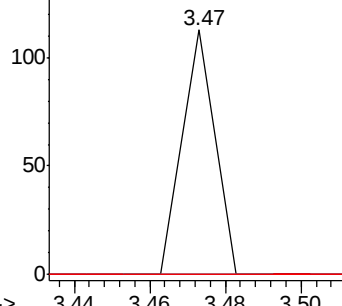
cis-1,2-Dichloroethene
Concen: 7.885 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Instrument :
MSVOA_F
ClientSampleId :
282-346

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	245.8
98	0.0	0.0	132.6



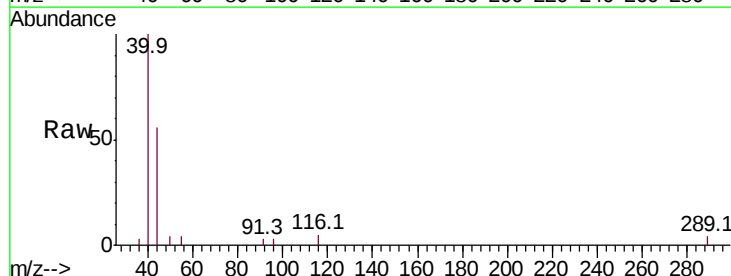
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



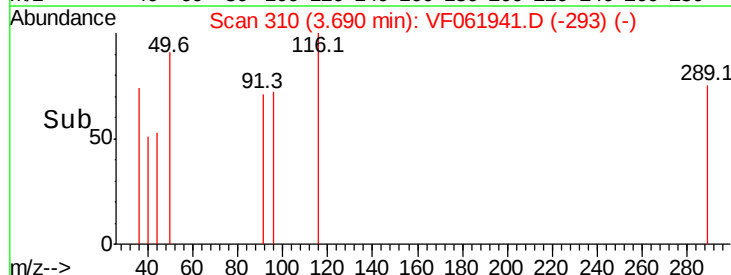
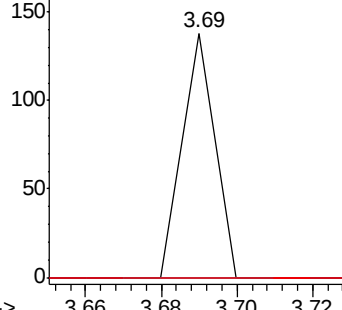
#28

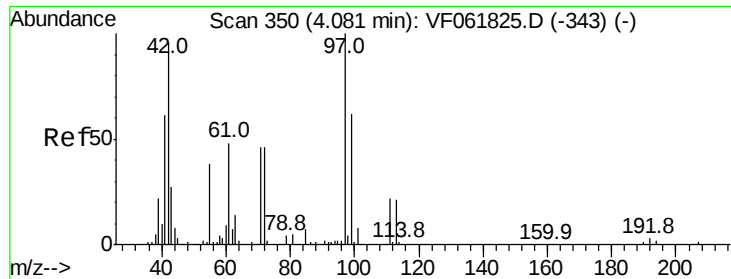
Bromochloromethane
Concen: 16.852 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.04 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	0.0	76.9	115.3#



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 245.168 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

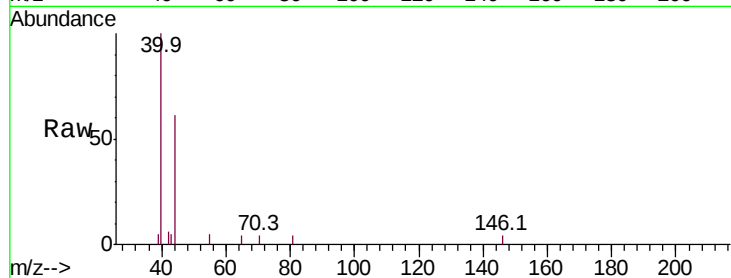
Tot Ion: 42 Resp: 250

Ion Ratio Lower Upper

42 100

72 0.0 34.4 51.6#

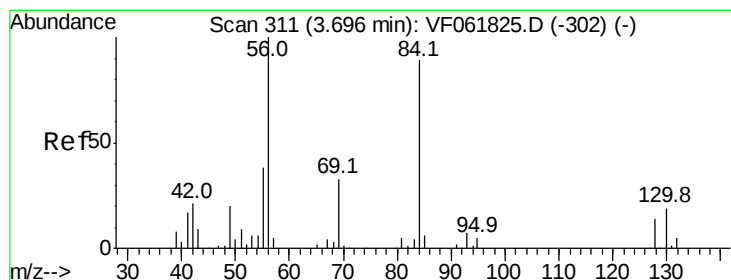
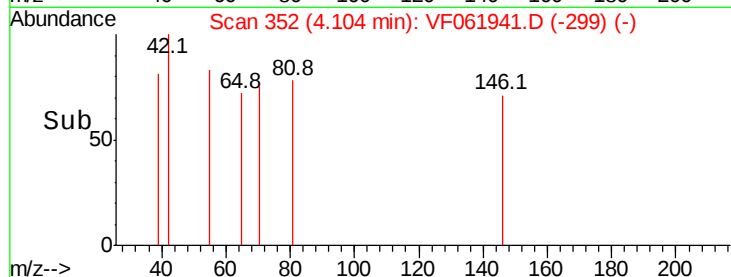
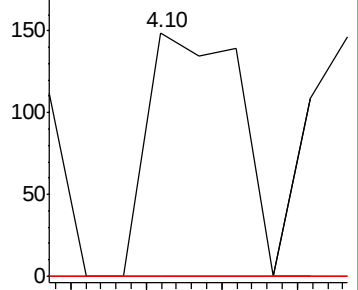
71 0.0 34.6 52.0#



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



#31

Cyclohexane

Concen: 5.388 ug/l

RT: 3.71 min Scan# 312

Delta R.T. 0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

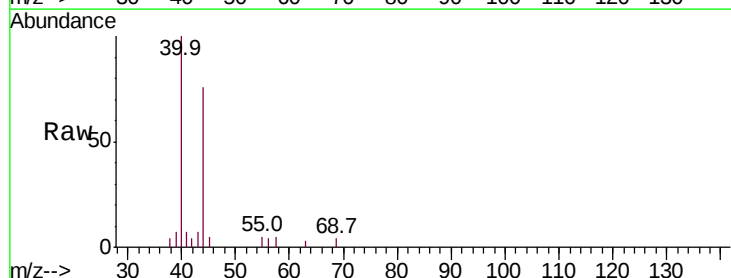
Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

69 108.5 26.0 39.0#

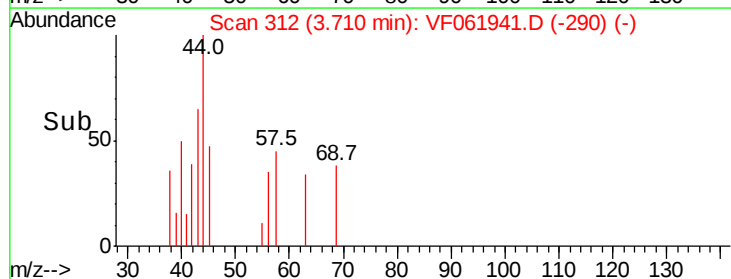
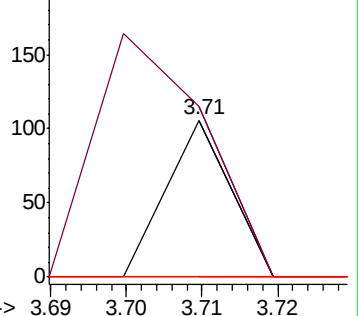
84 0.0 71.0 106.6#

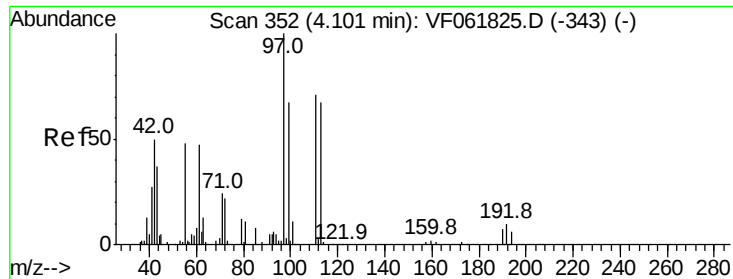


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0





#32

1,1,1-Trichloroethane

Concen: 7.634 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.04 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

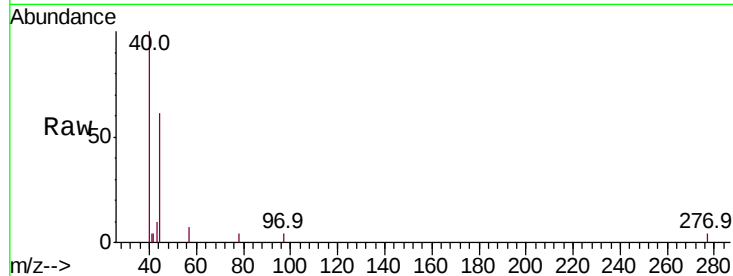
Tot Ion: 97 Resp: 60

Ion Ratio Lower Upper

97 100

99 0.0 53.8 80.8#

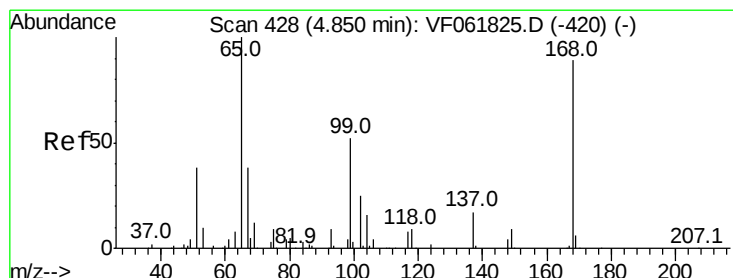
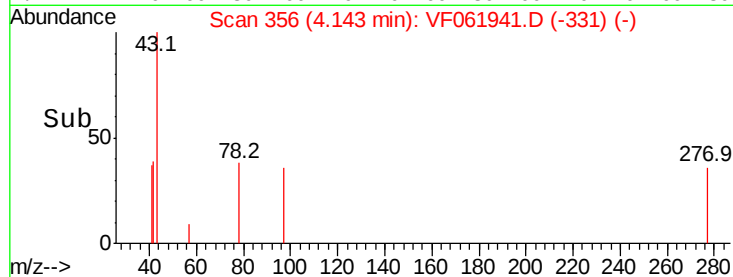
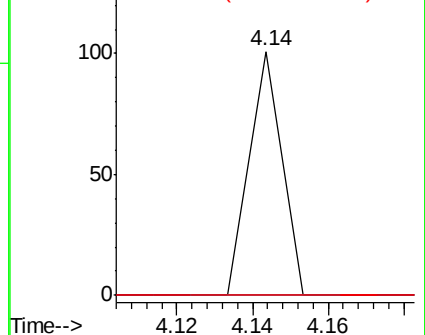
61 0.0 37.9 56.9#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 13.155 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.03 min

Lab File: VF061941.D

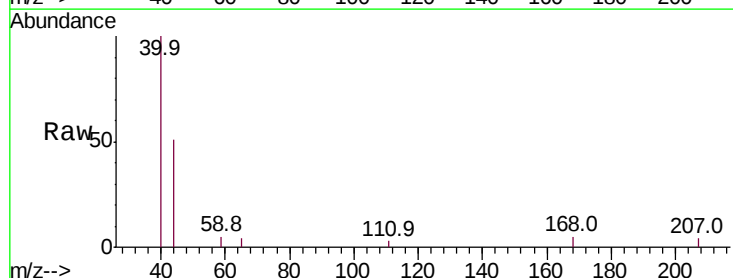
Acq: 14 Mar 2019 16:26

Tgt Ion: 65 Resp: 73

Ion Ratio Lower Upper

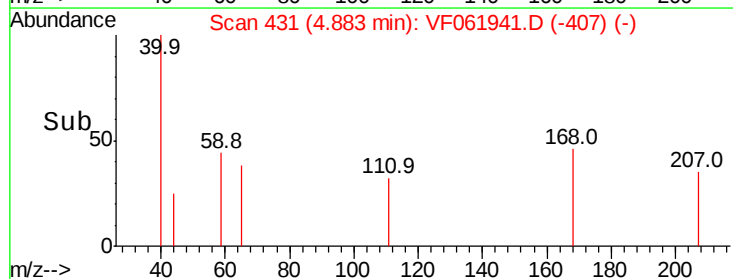
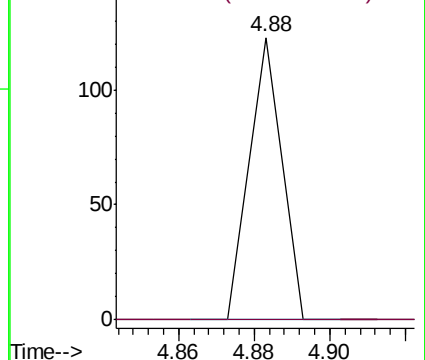
65 100

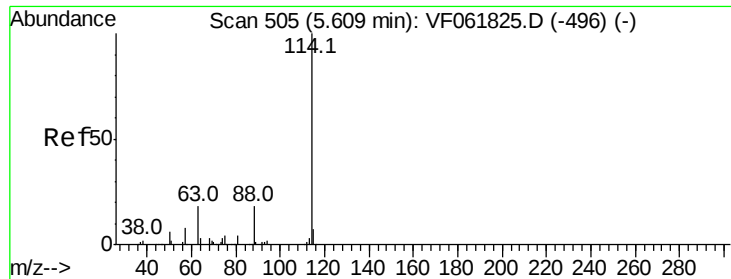
67 0.0 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

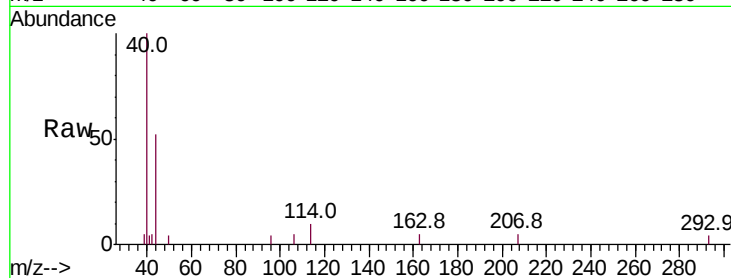




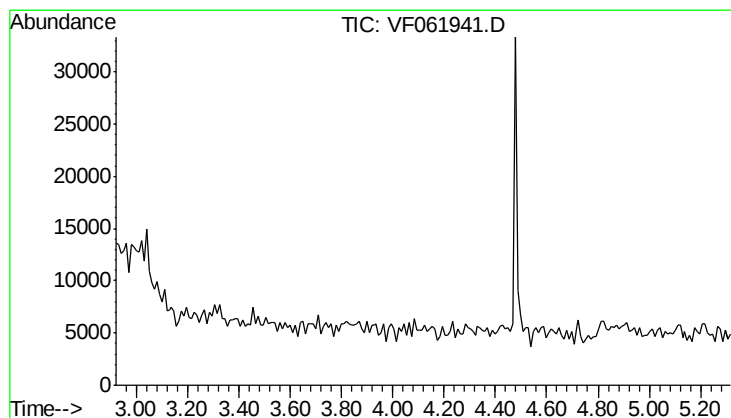
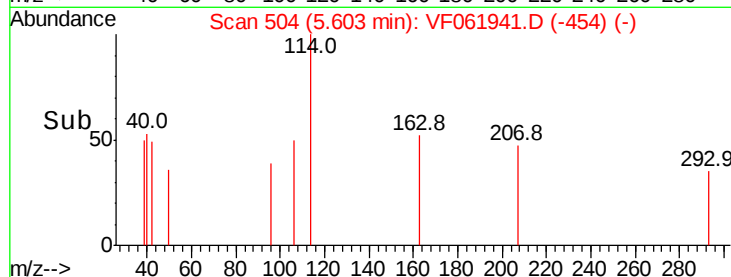
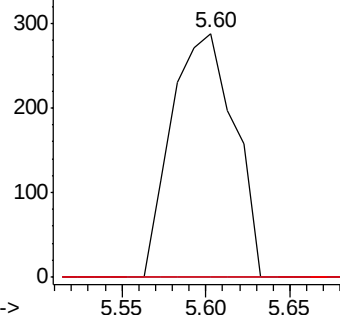
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061941.D
 Acq: 14 Mar 2019 16:26

Instrument :
 MSVOA_F
 ClientSampleId :
 282-346

Tot Ion:114 Resp: 744
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 35.6
 88 0.0 0.0 35.6

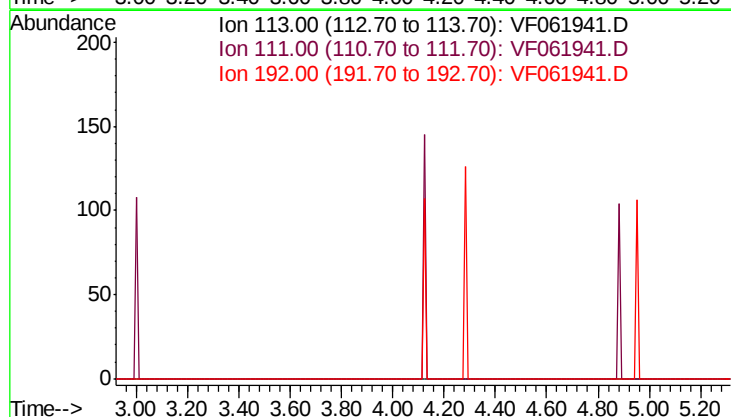


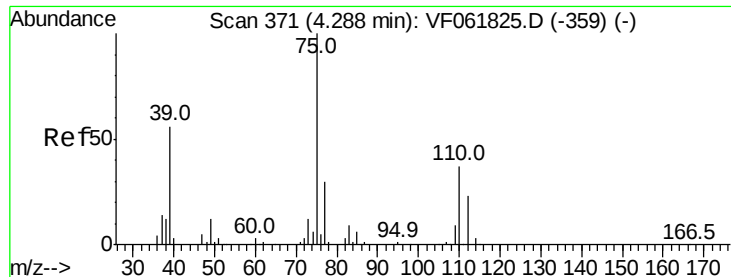
Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.12 min
 Lab File: VF061941.D
 Acq: 14 Mar 2019 16:26

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 97.0
 192 19.9





#36

1,1-Dichloropropene

Concen: 9.391 ug/l

RT: 4.21 min Scan# 363

Delta R.T. -0.08 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

282-346

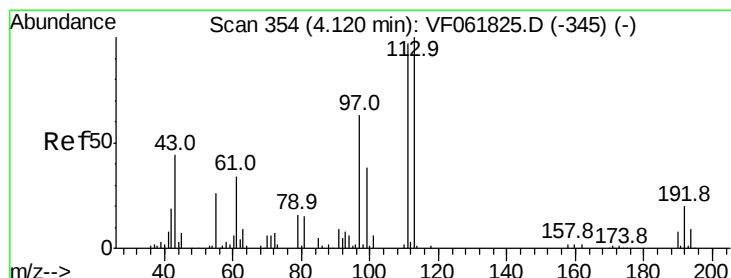
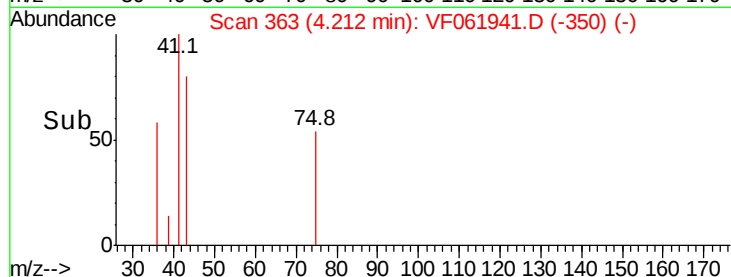
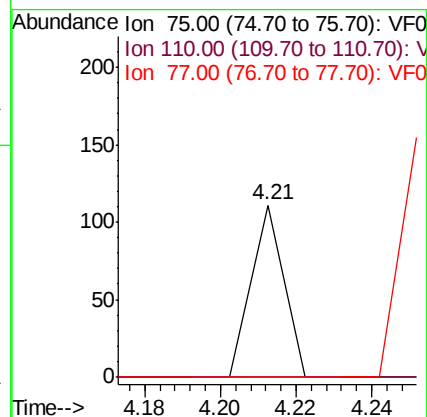
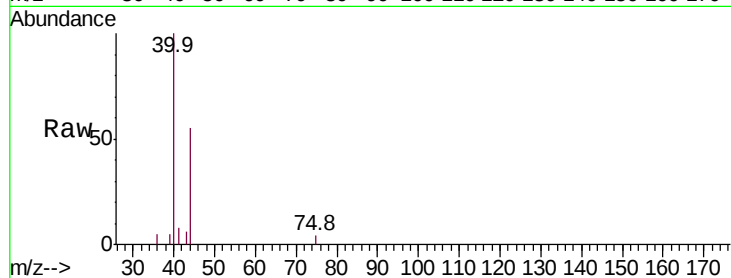
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.6#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 75.258 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

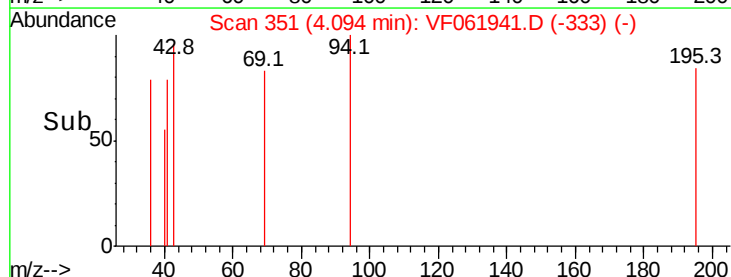
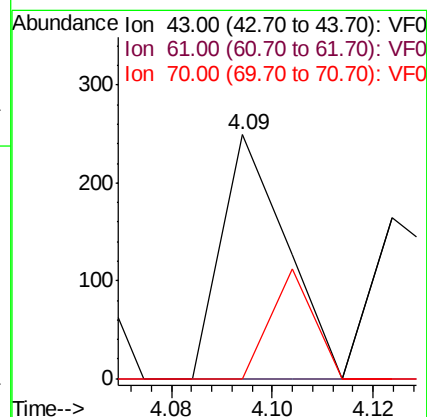
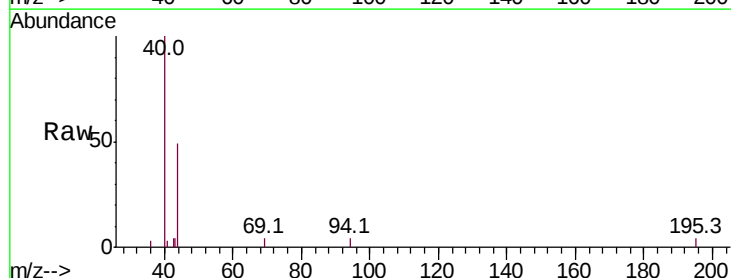
Tgt Ion: 43 Resp: 222

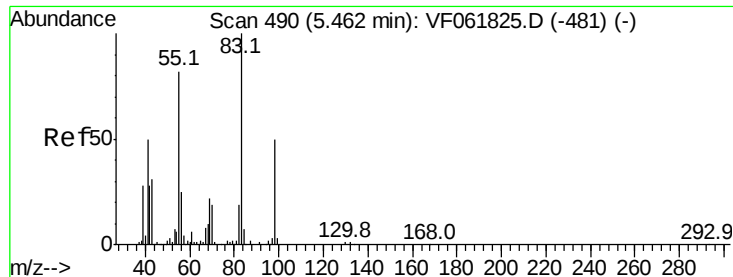
Ion Ratio Lower Upper

43 100

61 0.0 60.7 91.1#

70 0.0 10.6 15.8#

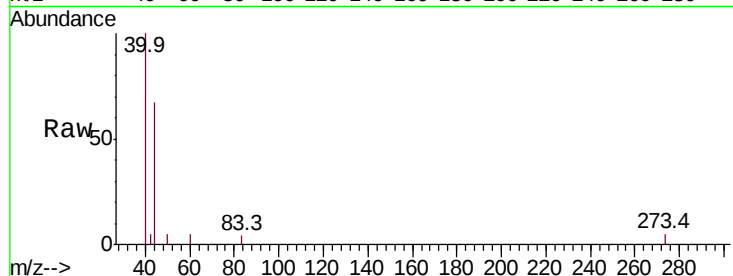




#39
Methylcyclohexane
Concen: 7.108 ug/l
RT: 5.36 min Scan# 479
Delta R.T. -0.11 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

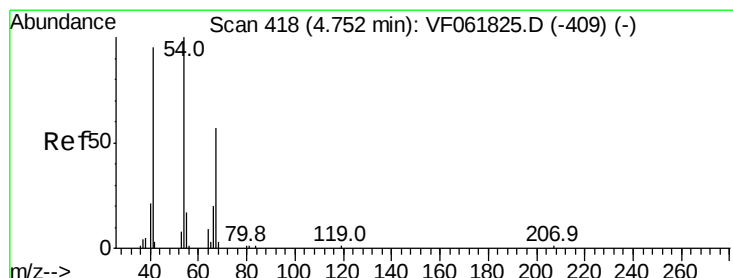
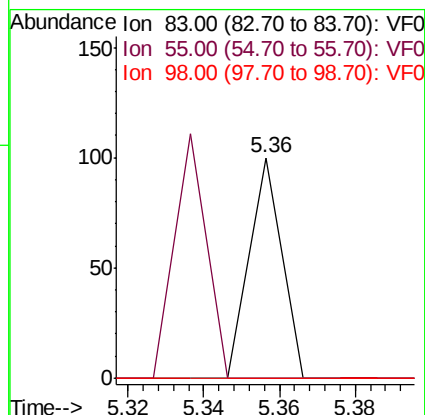
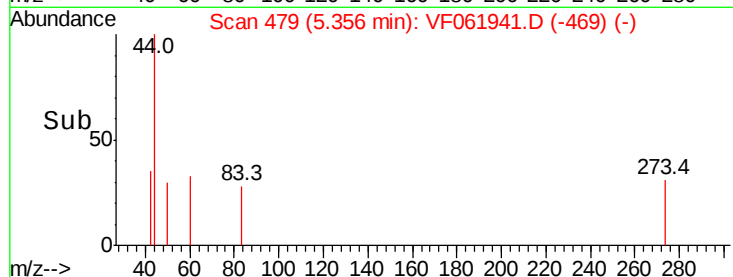
Instrument :
MSVOA_F
ClientSampleId :
282-346

Tot Ion: 83 Resp: 59
Ion Ratio Lower Upper
83 100
55 0.0 66.0 99.0#
98 0.0 39.8 59.6#



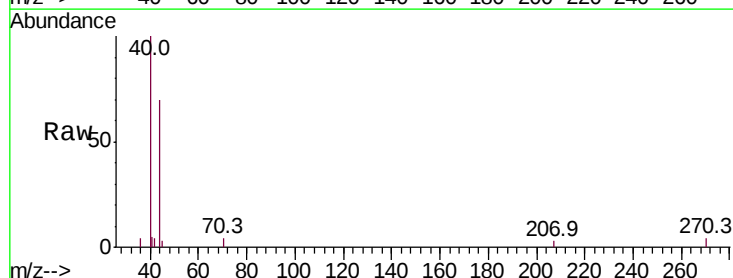
Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

5.36



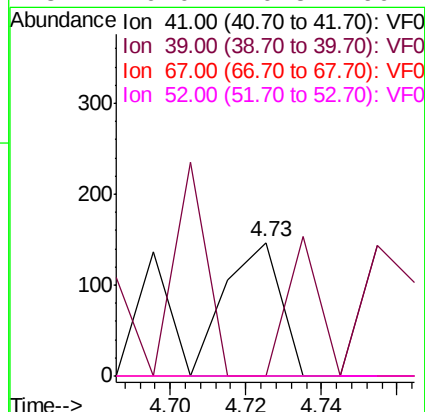
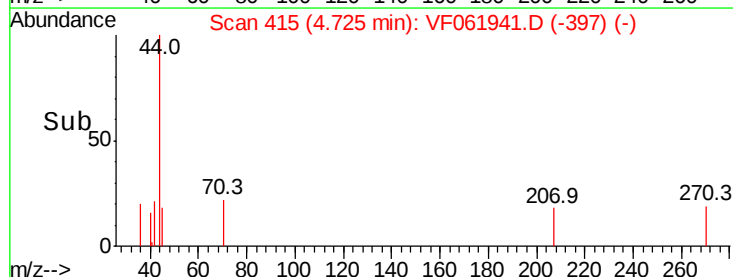
#41
Methacrylonitrile
Concen: 92.192 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

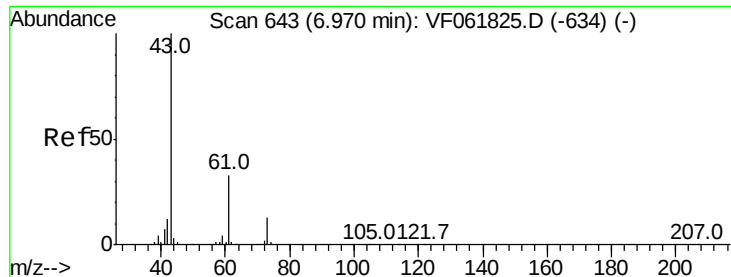
Tgt Ion: 41 Resp: 149
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 0.0 47.8 71.8#
52 0.0 40.5 60.7#



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

4.73





#43

Isopropyl Acetate

Concen: 66.553 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

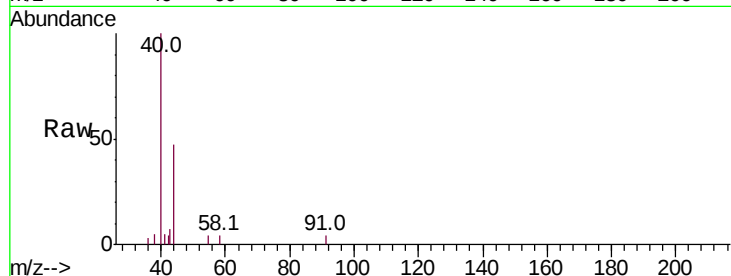
Tot Ion: 43 Resp: 242

Ion Ratio Lower Upper

43 100

61 0.0 26.1 39.1#

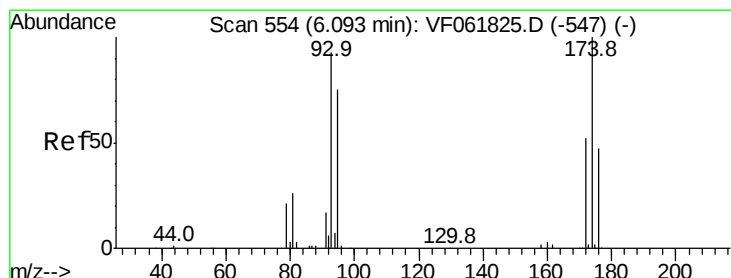
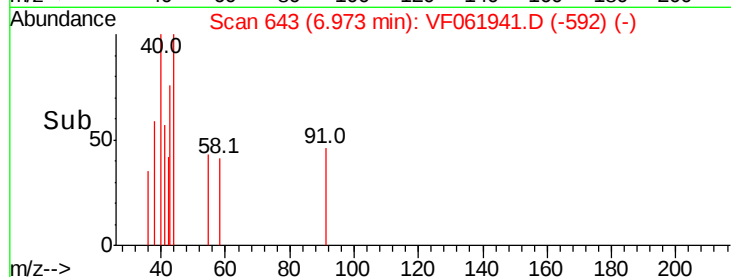
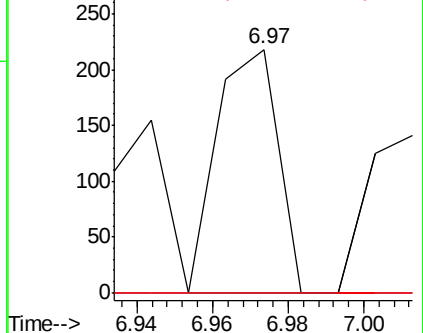
87 0.0 0.0 0.0



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



#46

Dibromomethane

Concen: 27.644 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.14 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

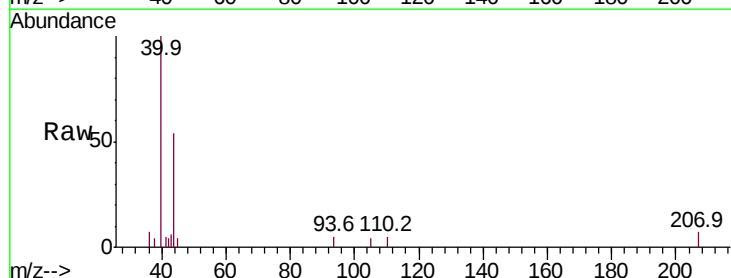
Tgt Ion: 93 Resp: 76

Ion Ratio Lower Upper

93 100

95 0.0 64.4 96.6#

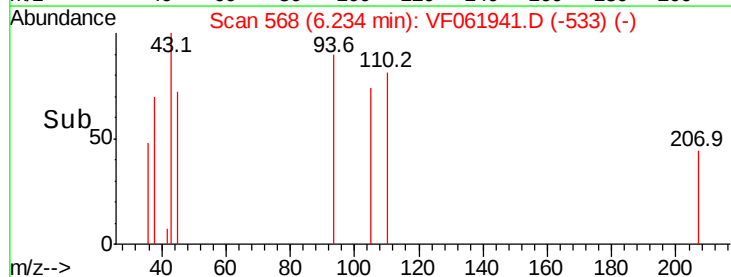
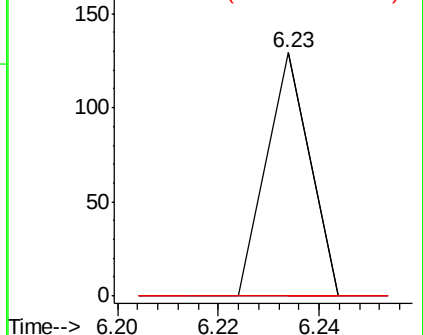
174 0.0 85.8 128.6#

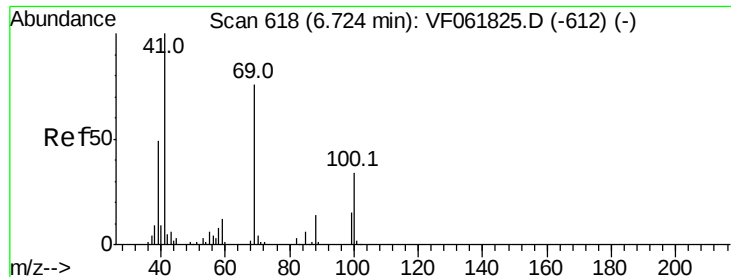


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#48

Methyl methacrylate

Concen: 148.180 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.04 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

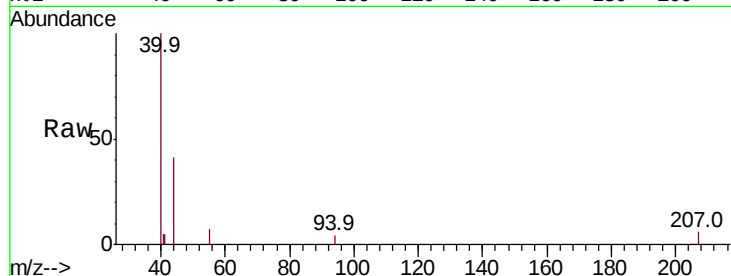
Tot Ion: 41 Resp: 341

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

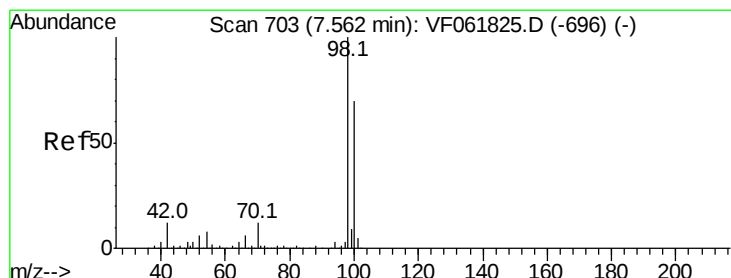
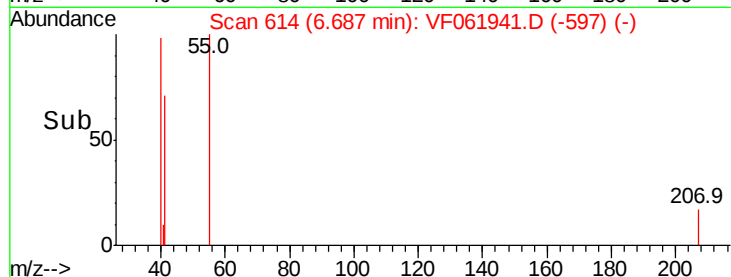
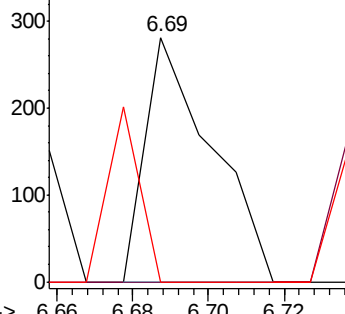
39 0.0 39.7 59.5#



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



#50

Toluene-d8

Concen: 34.148 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061941.D

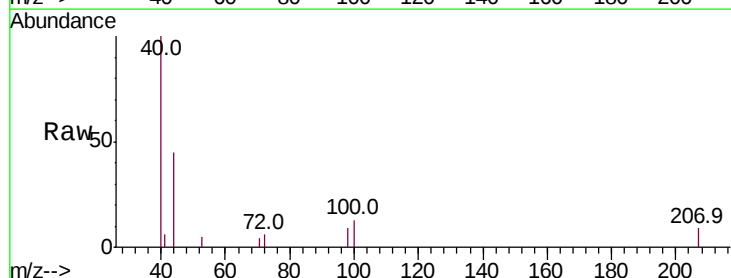
Acq: 14 Mar 2019 16:26

Tgt Ion: 98 Resp: 527

Ion Ratio Lower Upper

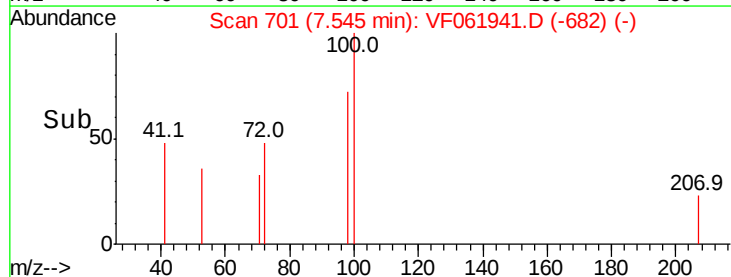
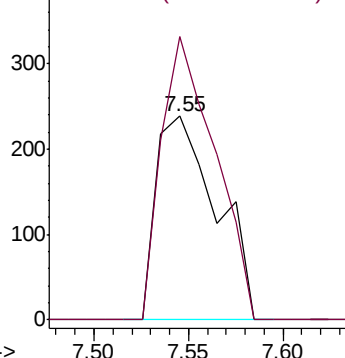
98 100

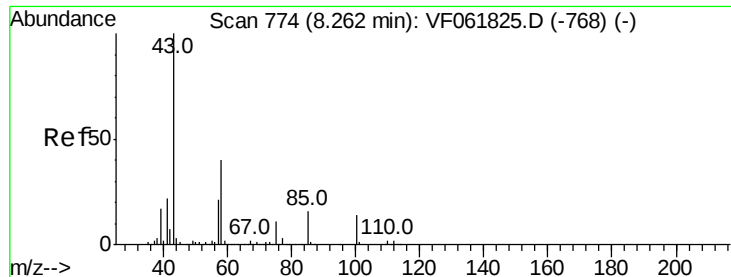
100 138.9 56.0 84.0#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 46.954 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

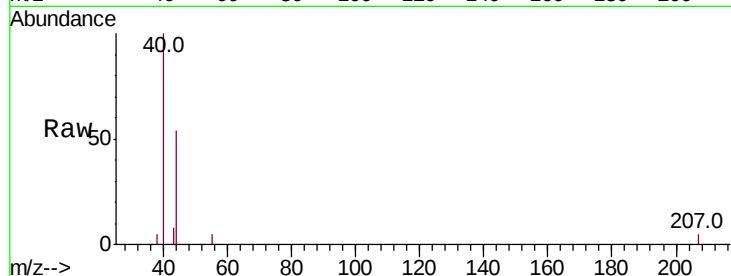
282-346

Tot Ion: 43 Resp: 118

Ion Ratio Lower Upper

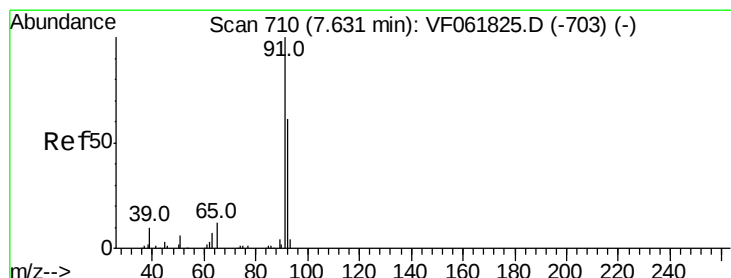
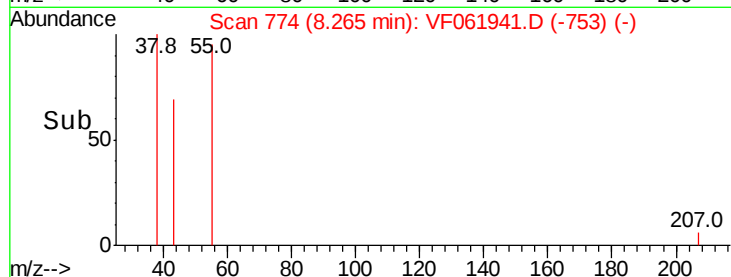
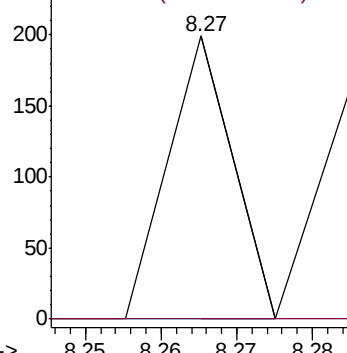
43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 11.410 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061941.D

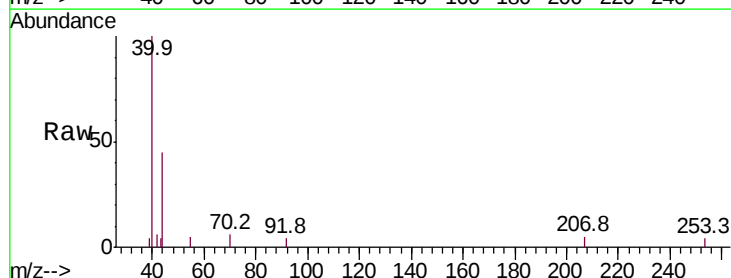
Acq: 14 Mar 2019 16:26

Tgt Ion: 92 Resp: 124

Ion Ratio Lower Upper

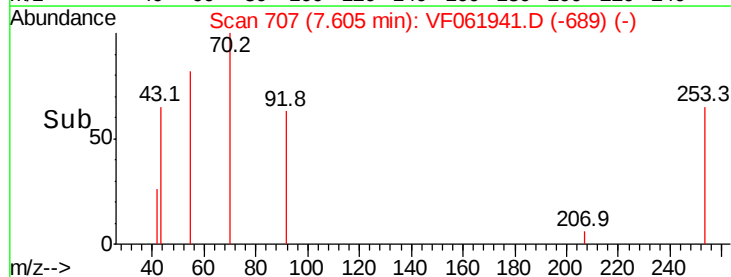
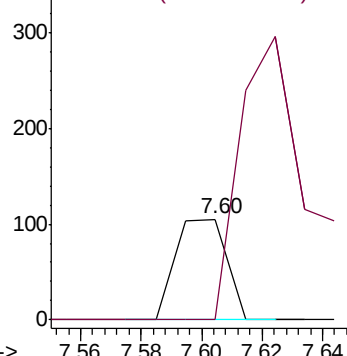
92 100

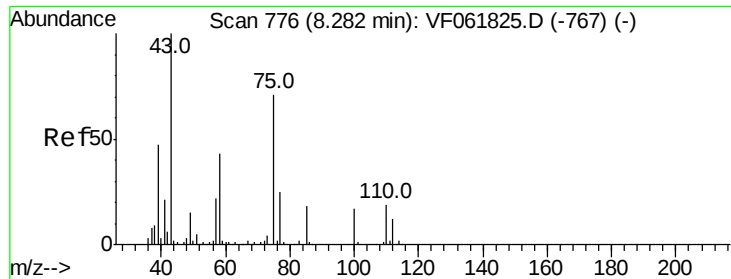
91 0.0 132.0 198.0#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 14.162 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.05 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

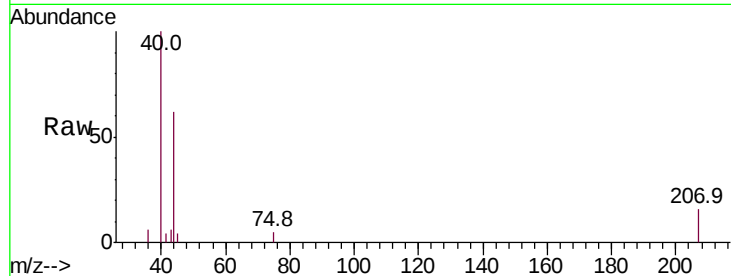
282-346

Tot Ion: 75 Resp: 71

Ion Ratio Lower Upper

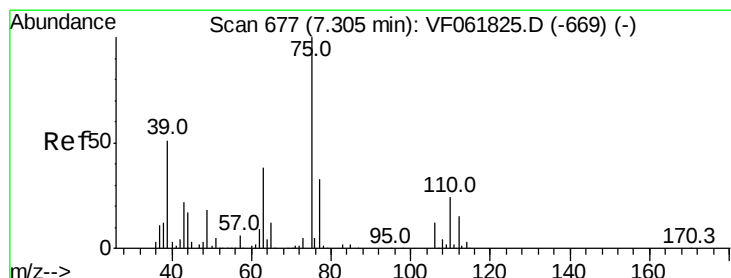
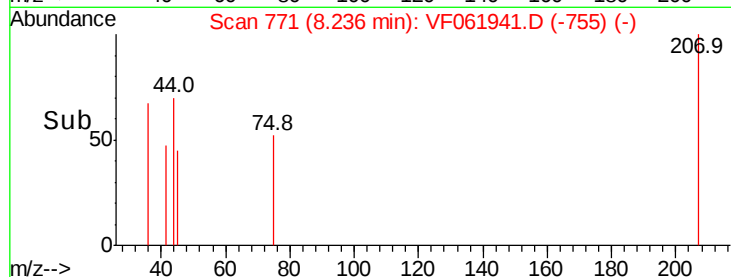
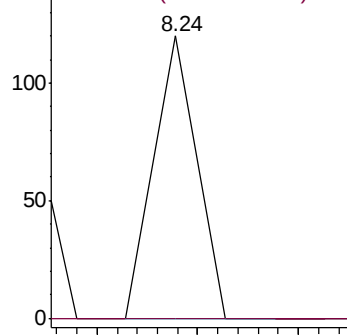
75 100

77 0.0 28.0 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 11.135 ug/l

RT: 7.32 min Scan# 678

Delta R.T. 0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

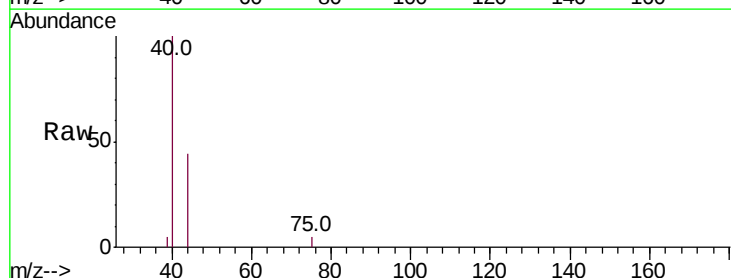
Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

77 0.0 26.3 39.5#

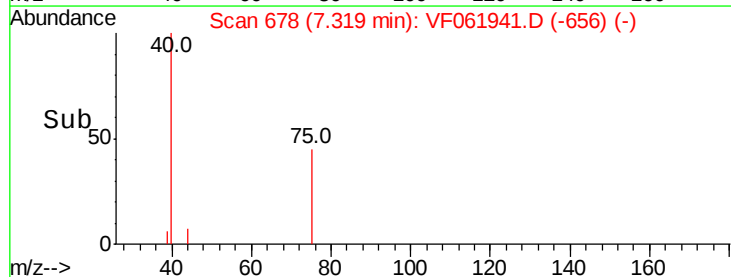
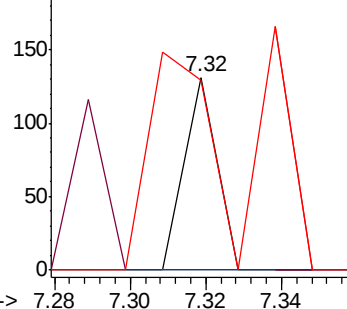
39 98.5 40.8 61.2#

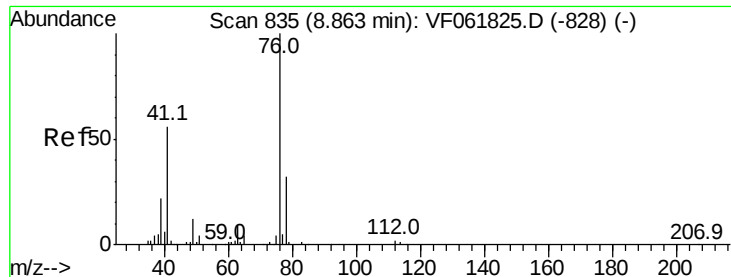


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 11.717 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.12 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

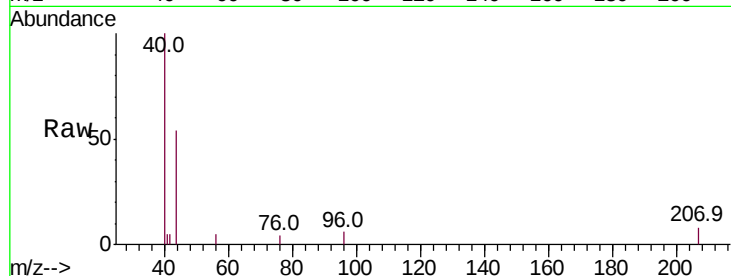
282-346

Tot Ion: 76 Resp: 60

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.99

100

80

60

40

20

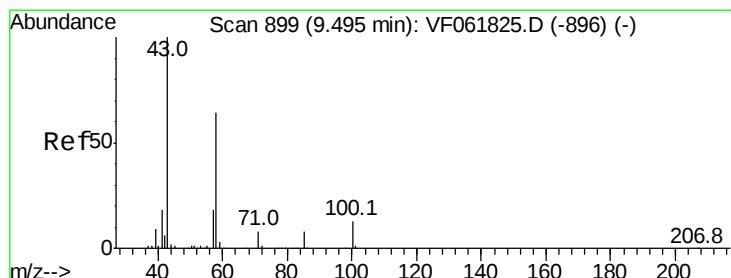
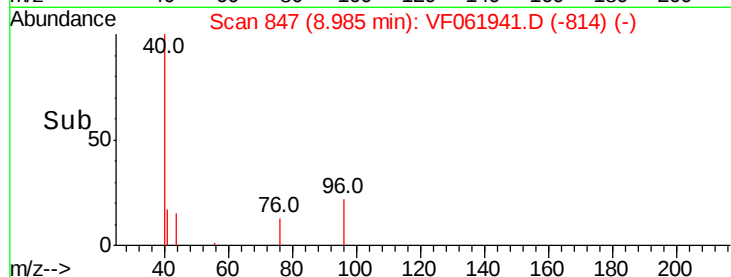
0

8.96

8.98

9.00

Time-->



#59

2-Hexanone

Concen: 70.050 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.01 min

Lab File: VF061941.D

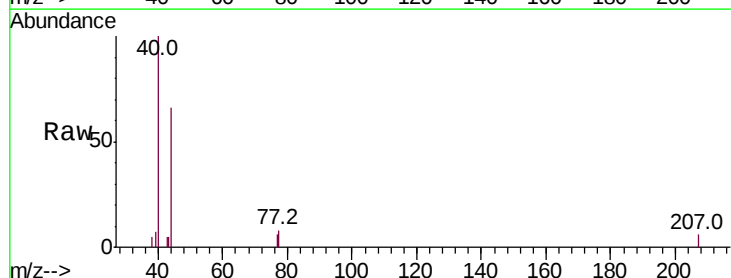
Acq: 14 Mar 2019 16:26

Tgt Ion: 43 Resp: 127

Ion Ratio Lower Upper

43 100

58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

250

200

150

100

50

0

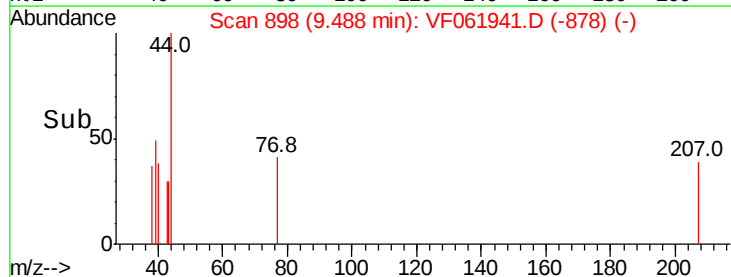
9.47

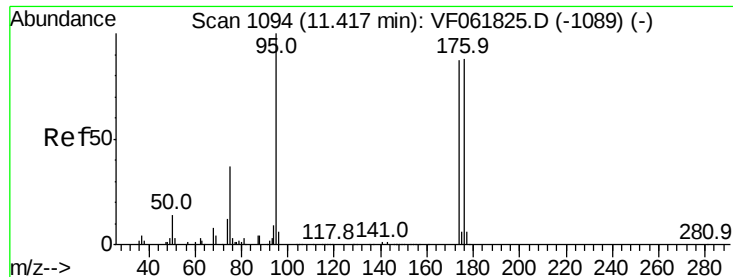
9.48

9.49

9.50

Time-->





#62

4-Bromofluorobenzene

Concen: 32.091 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

282-346

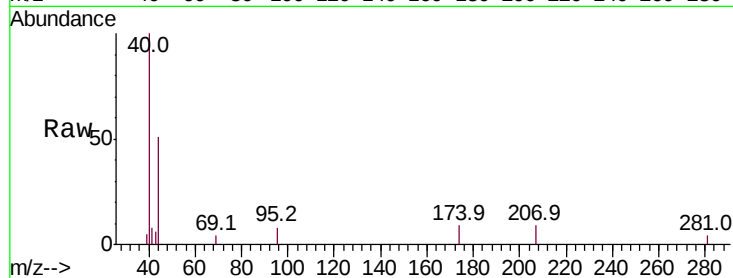
Tot Ion: 95 Resp: 194

Ion Ratio Lower Upper

95 100

174 111.3 0.0 174.0

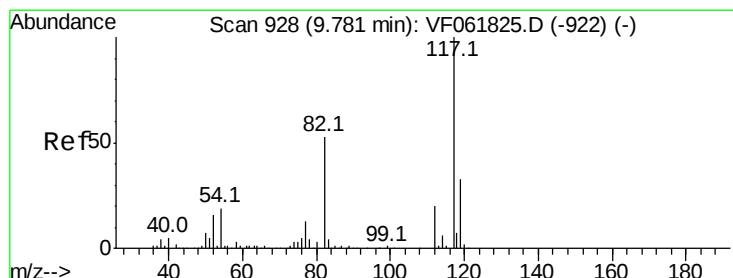
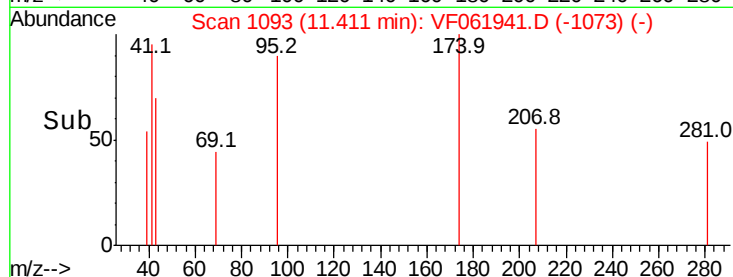
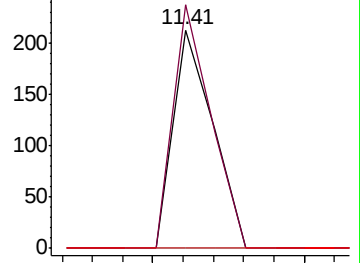
176 0.0 0.0 175.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

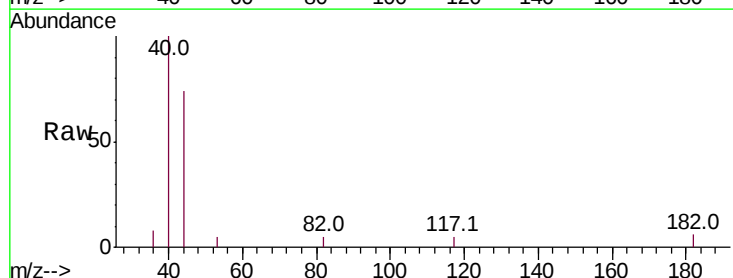
Tgt Ion: 117 Resp: 60

Ion Ratio Lower Upper

117 100

82 105.9 42.6 63.8#

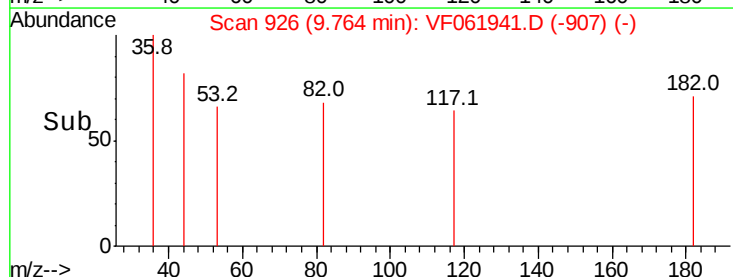
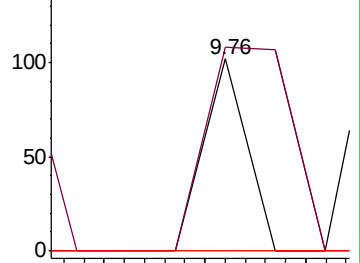
119 0.0 26.0 39.0#

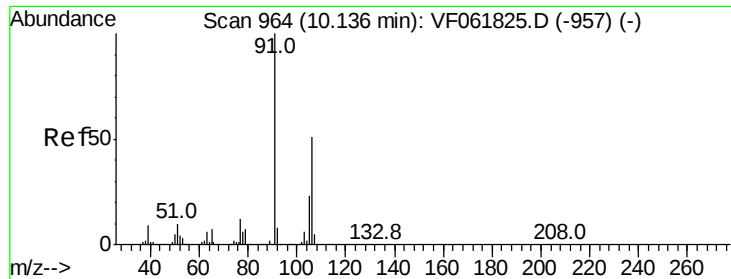


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#68

m/p-Xvlenes

Concen: 80.609 ug/l

RT: 10.16 min Scan# 966

Delta R.T. 0.02 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

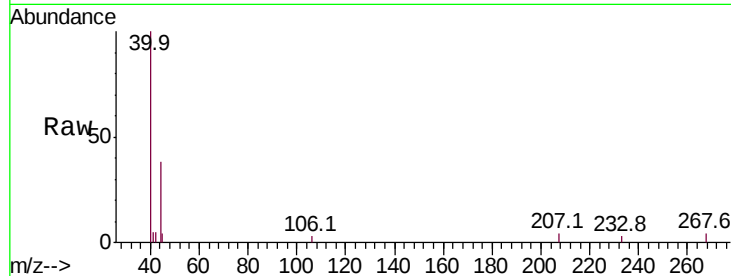
282-346

Tot Ion:106 Resp: 59

Ion Ratio Lower Upper

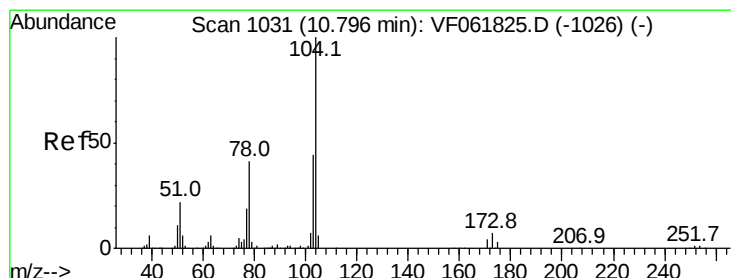
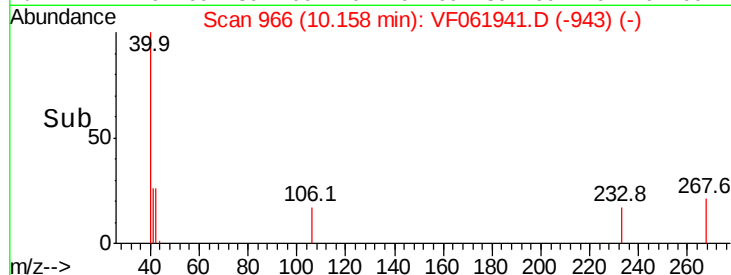
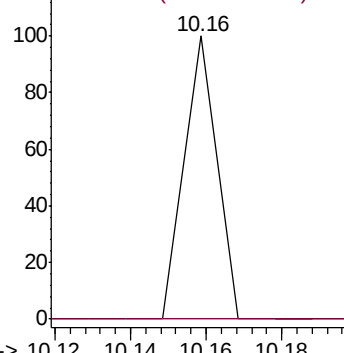
106 100

91 0.0 157.5 236.3#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#70

Styrene

Concen: 85.649 ug/l

RT: 10.87 min Scan# 1038

Delta R.T. 0.07 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

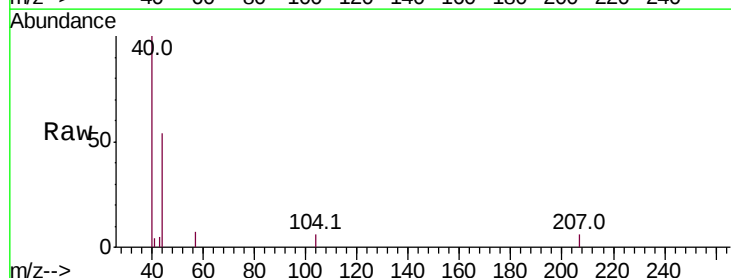
Tgt Ion:104 Resp: 95

Ion Ratio Lower Upper

104 100

78 0.0 33.3 49.9#

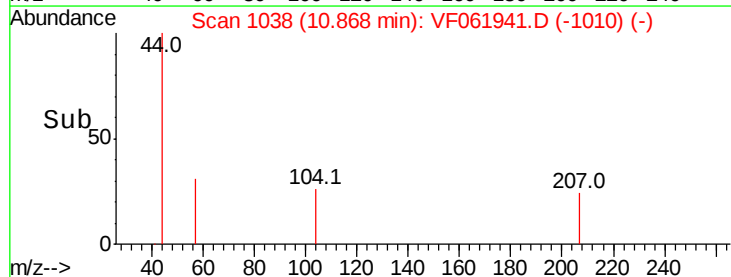
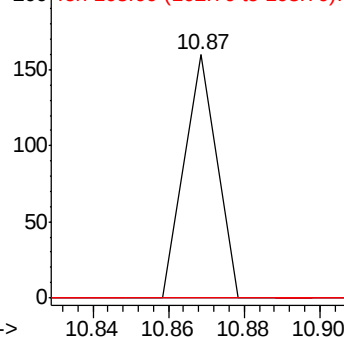
103 0.0 35.4 53.0#

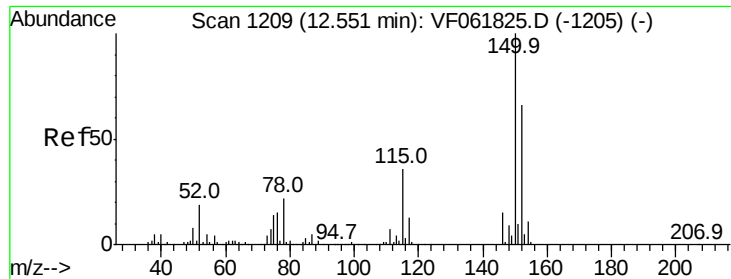


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



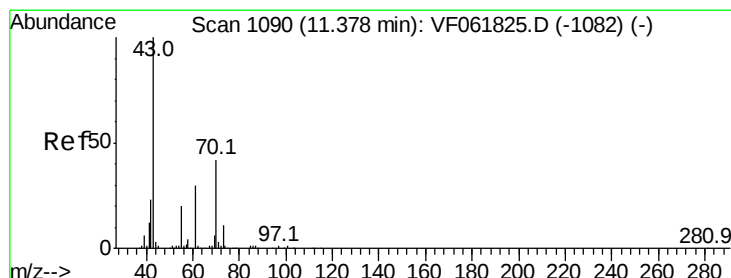
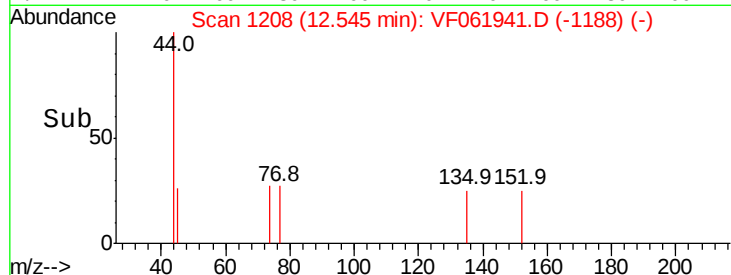
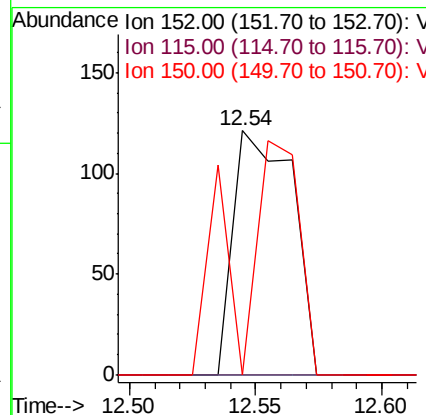
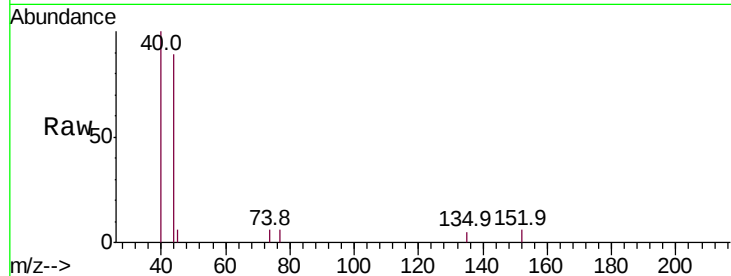


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Instrument :
MSVOA_F
ClientSampleId :
282-346

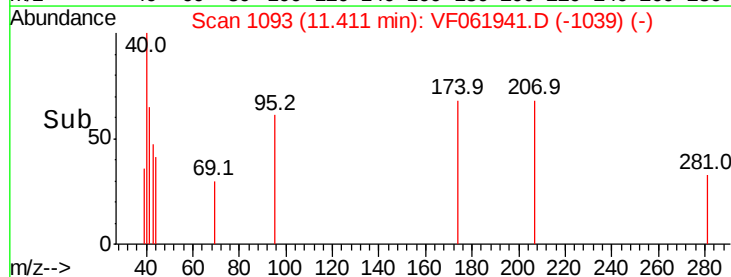
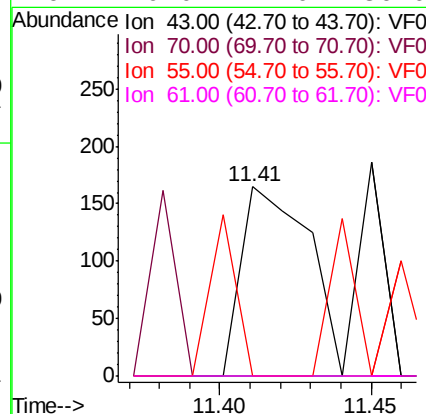
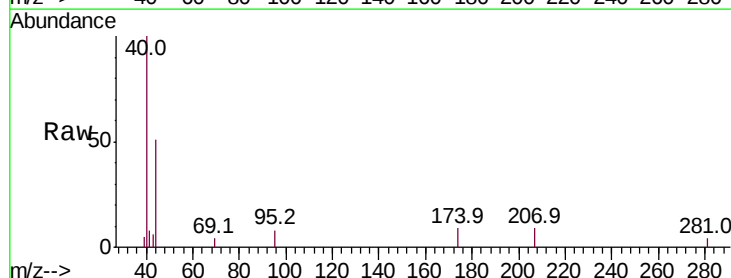
Tot Ion:152 Resp: 198
Ion Ratio Lower Upper
152 100
115 0.0 27.7 83.1#
150 0.0 0.0 304.2

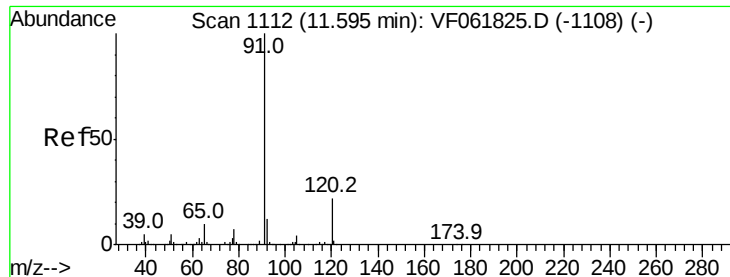


#74

N-ethyl acetate
Concen: 81.896 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.03 min
Lab File: VF061941.D
Acq: 14 Mar 2019 16:26

Tgt Ion: 43 Resp: 257
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.0#
55 0.0 16.3 24.5#
61 0.0 24.0 36.0#





#78

n-propylbenzene

Concen: 4.158 ug/l

RT: 11.57 min Scan# 1109

Delta R.T. -0.03 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

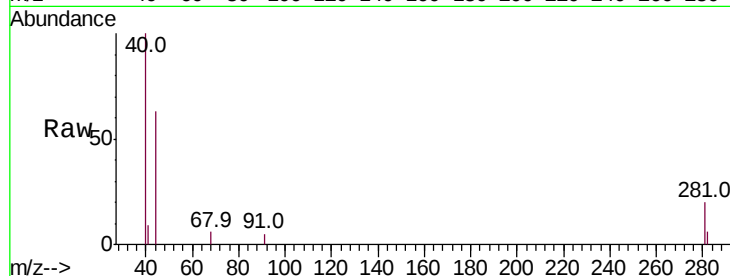
282-346

Tot Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.57

120

100

80

60

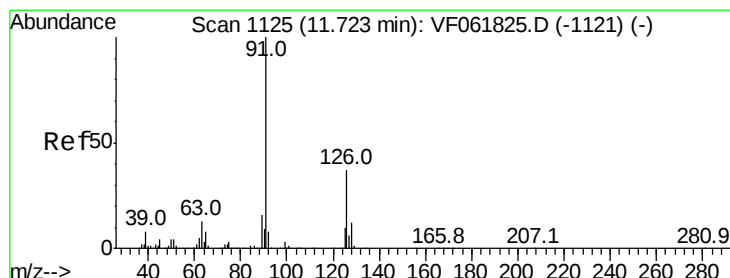
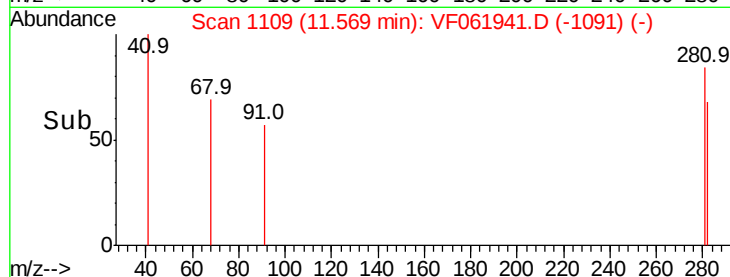
40

20

0

11.54 11.56 11.58 11.60

Time-->



#79

2-Chlorotoluene

Concen: 7.272 ug/l

RT: 11.57 min Scan# 1109

Delta R.T. -0.15 min

Lab File: VF061941.D

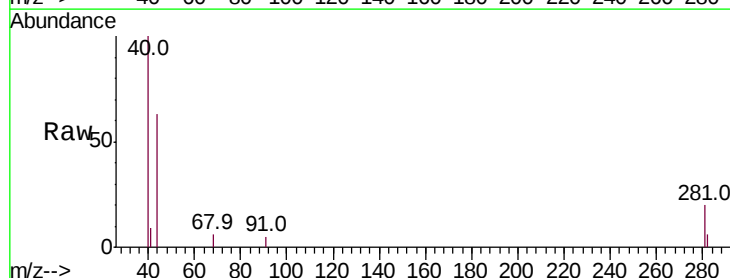
Acq: 14 Mar 2019 16:26

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.57

120

100

80

60

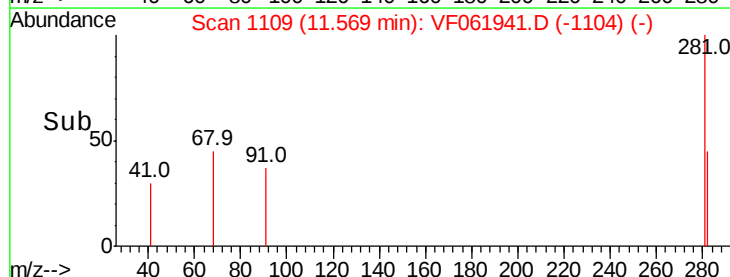
40

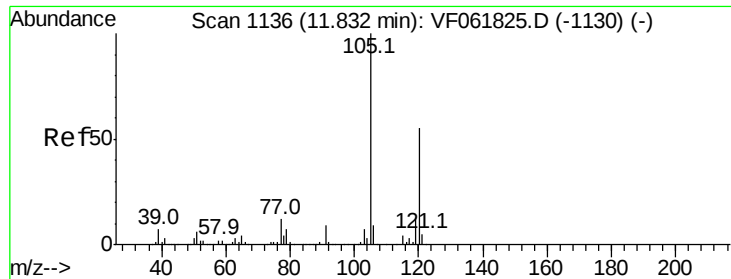
20

0

11.54 11.56 11.58 11.60

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 7.858 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

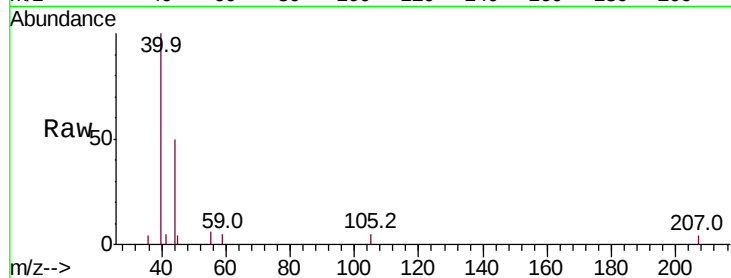
282-346

Tot Ion:105 Resp: 86

Ion Ratio Lower Upper

105 100

120 0.0 27.4 82.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.82

150

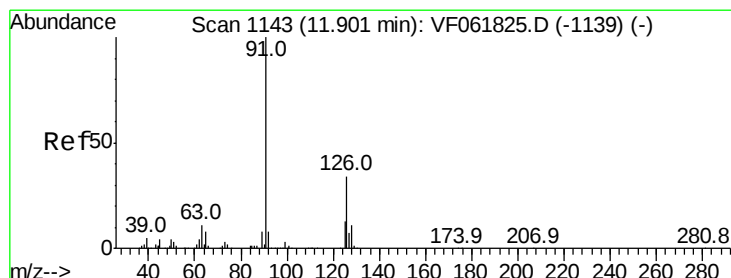
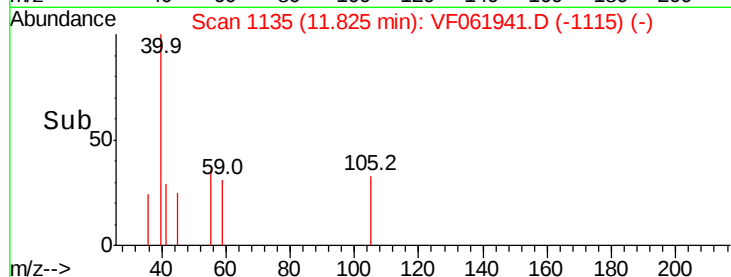
100

50

0

11.80 11.82 11.84

Time-->



#82

4-Chlorotoluene

Concen: 15.886 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF061941.D

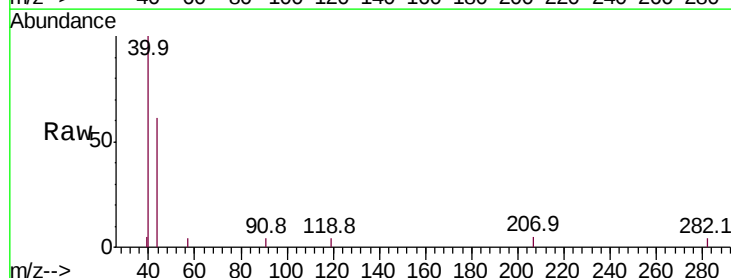
Acq: 14 Mar 2019 16:26

Tgt Ion: 91 Resp: 143

Ion Ratio Lower Upper

91 100

126 0.0 17.0 50.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.90

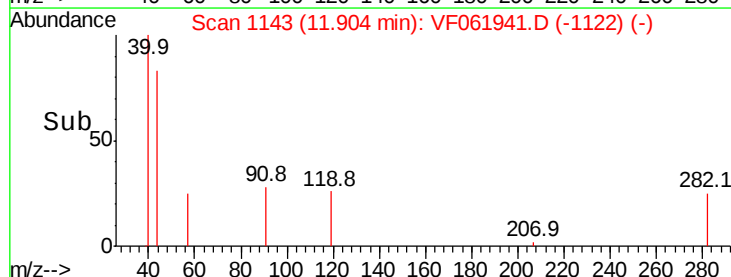
100

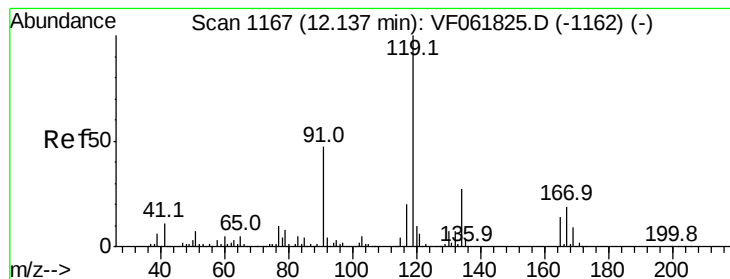
50

0

11.85 11.90

Time-->





#83

tert-Butylbenzene

Concen: 5.507 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampled :

282-346

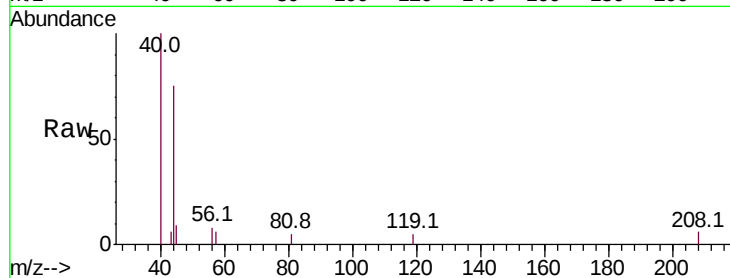
Tot Ion:119 Resp: 64

Ion Ratio Lower Upper

119 100

91 0.0 23.5 70.5#

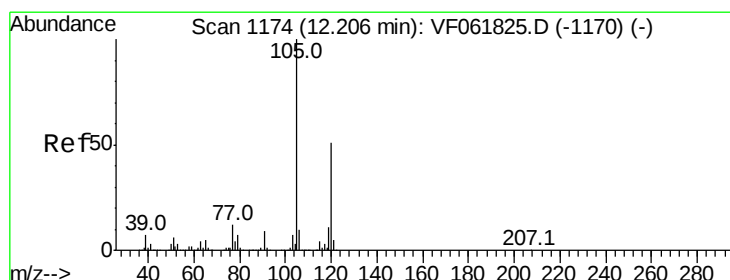
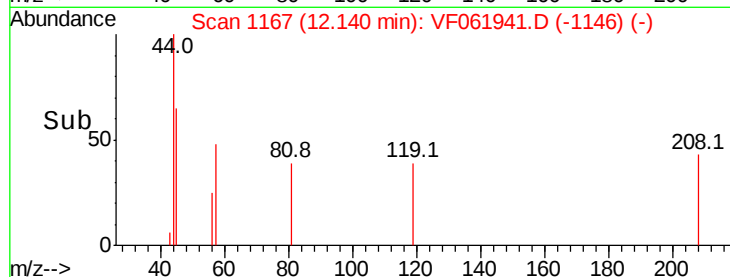
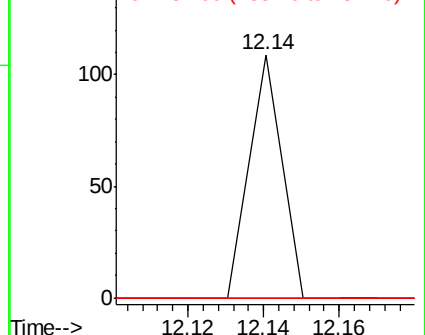
134 0.0 13.3 39.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 7.084 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF061941.D

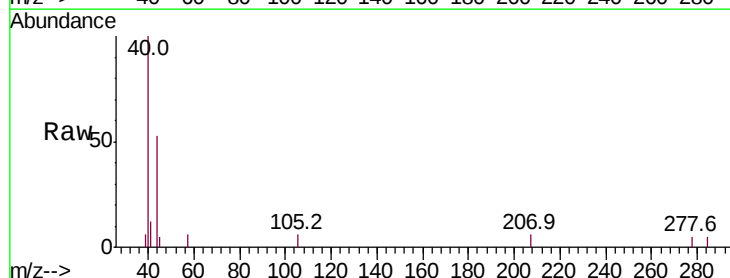
Acq: 14 Mar 2019 16:26

Tgt Ion:105 Resp: 76

Ion Ratio Lower Upper

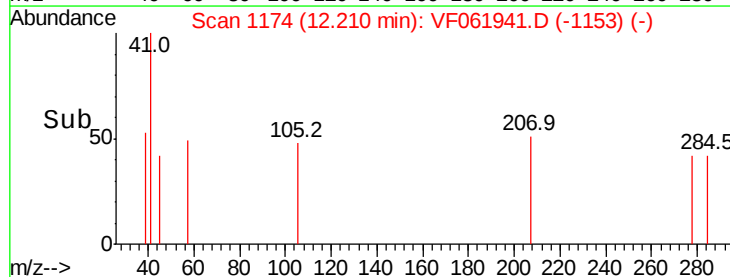
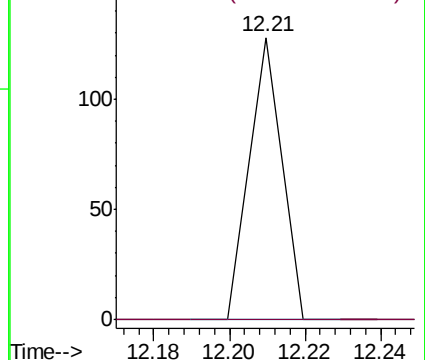
105 100

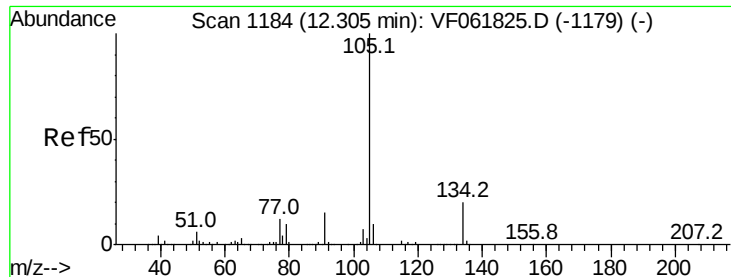
120 0.0 25.8 77.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 11.903 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

Instrument :

MSVOA_F

ClientSampleId :

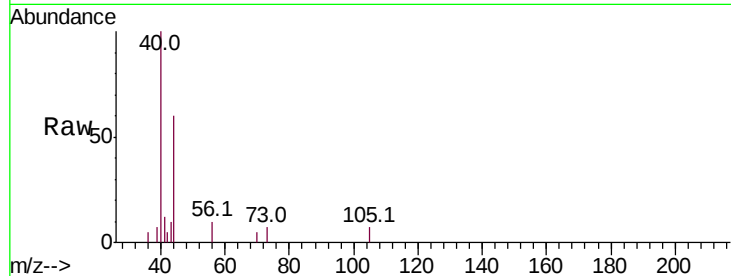
282-346

Tot Ion:105 Resp: 180

Ion Ratio Lower Upper

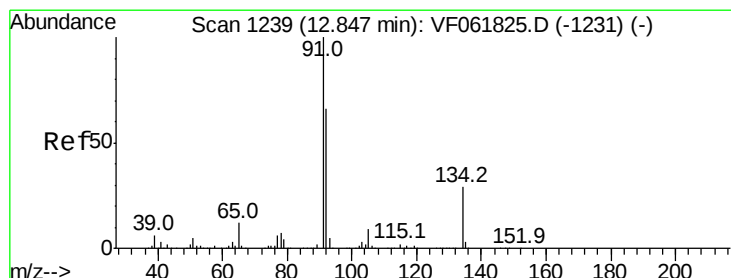
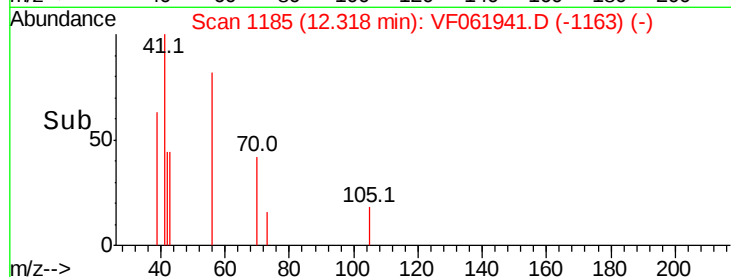
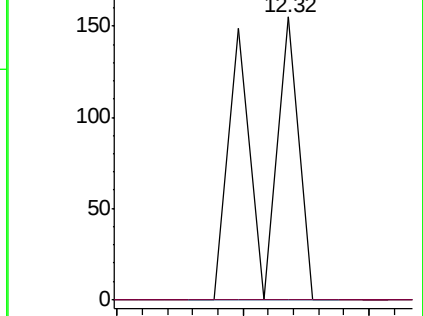
105 100

134 0.0 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 12.943 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VF061941.D

Acq: 14 Mar 2019 16:26

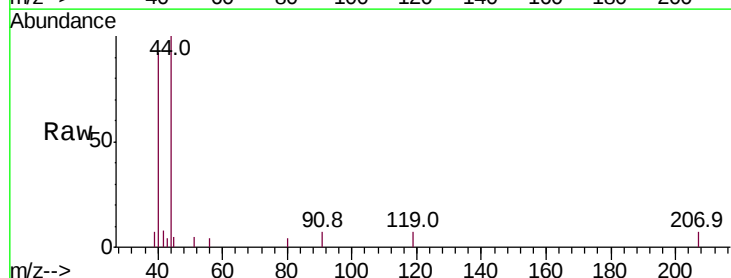
Tgt Ion: 91 Resp: 159

Ion Ratio Lower Upper

91 100

92 0.0 32.9 98.6#

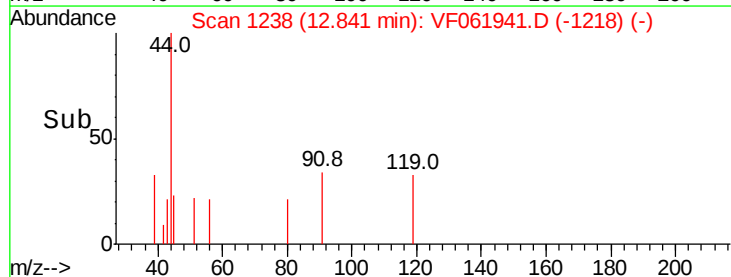
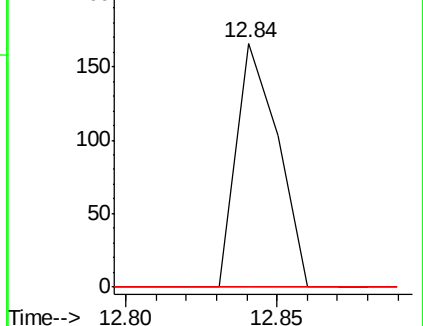
134 0.0 14.5 43.6#

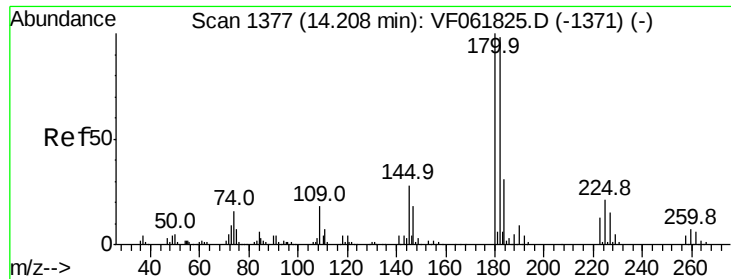


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

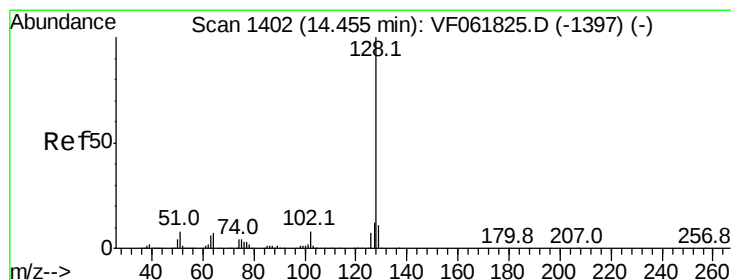
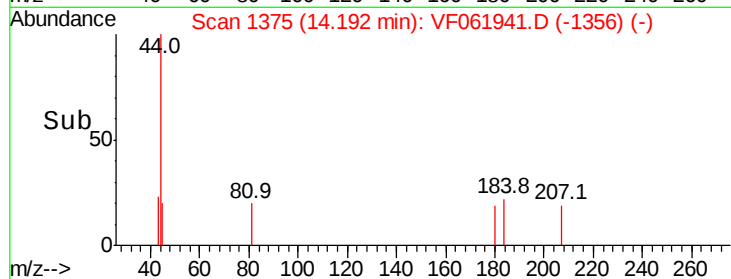
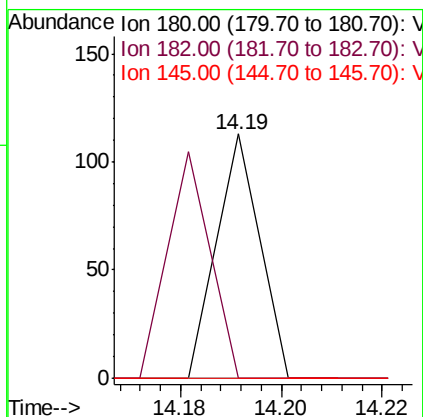
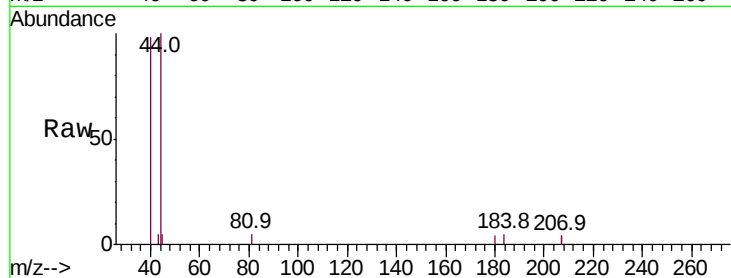




#93
 1,2,4-Trichlorobenzene
 Concen: 16.193 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061941.D
 Acq: 14 Mar 2019 16:26

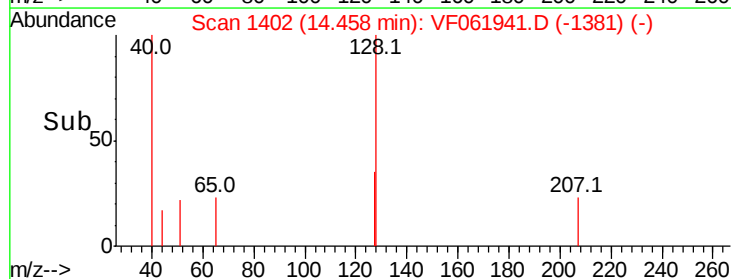
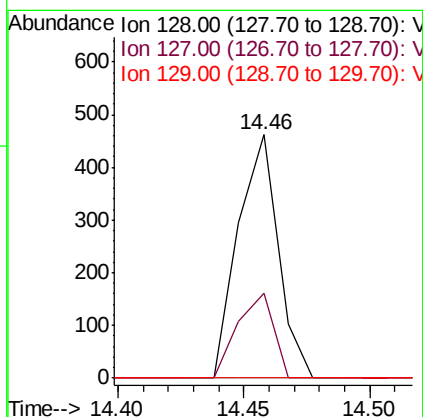
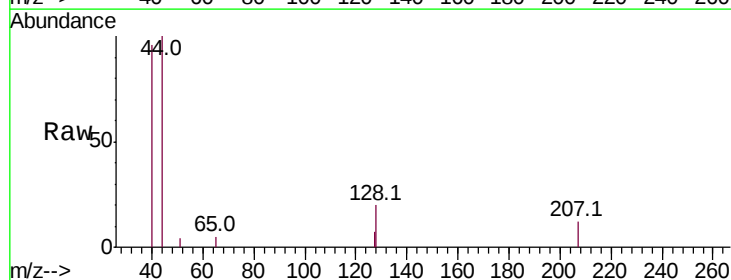
Instrument :
 MSVOA_F
 ClientSampleId :
 282-346

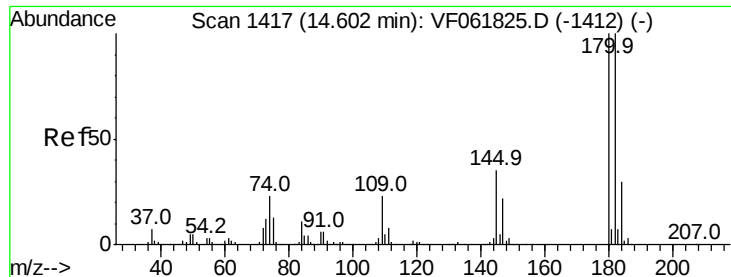
Tot Ion:180 Resp: 67
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.0 147.2#
 145 0.0 14.1 42.4#



#95
 Naphthalene
 Concen: 69.070 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.00 min
 Lab File: VF061941.D
 Acq: 14 Mar 2019 16:26

Tgt Ion:128 Resp: 509
 Ion Ratio Lower Upper
 128 100
 127 34.6 9.3 13.9#
 129 0.0 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 45.285 ug/l
 RT: 14.60 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: VF061941.D
 Acq: 14 Mar 2019 16:26

Instrument :
 MSVOA_F
 ClientSampleId :
 282-346

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	50.2	150.7#
145	0.0	17.5	52.5#

