

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061505.D
 Acq On : 24 Jan 2019 17:35
 Operator : VA/AP
 Sample : K1223-02RE
 Misc : 4.96g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-NRE

Quant Time: Jan 25 04:09:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	148787	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.63	114	260723	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.80	117	159368	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.57	152	37756	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.88	65	94187	51.27	ug/l	0.05
Spiked Amount			Recovery	=	102.54%	
35) Dibromofluoromethane	4.15	113	101222	49.20	ug/l	0.05
Spiked Amount			Recovery	=	98.40%	
50) Toluene-d8	7.58	98	187340	33.24	ug/l	0.04
Spiked Amount			Recovery	=	66.48%	
62) 4-Bromofluorobenzene	11.43	95	48237	18.32	ug/l	0.03
Spiked Amount			Recovery	=	36.64%	

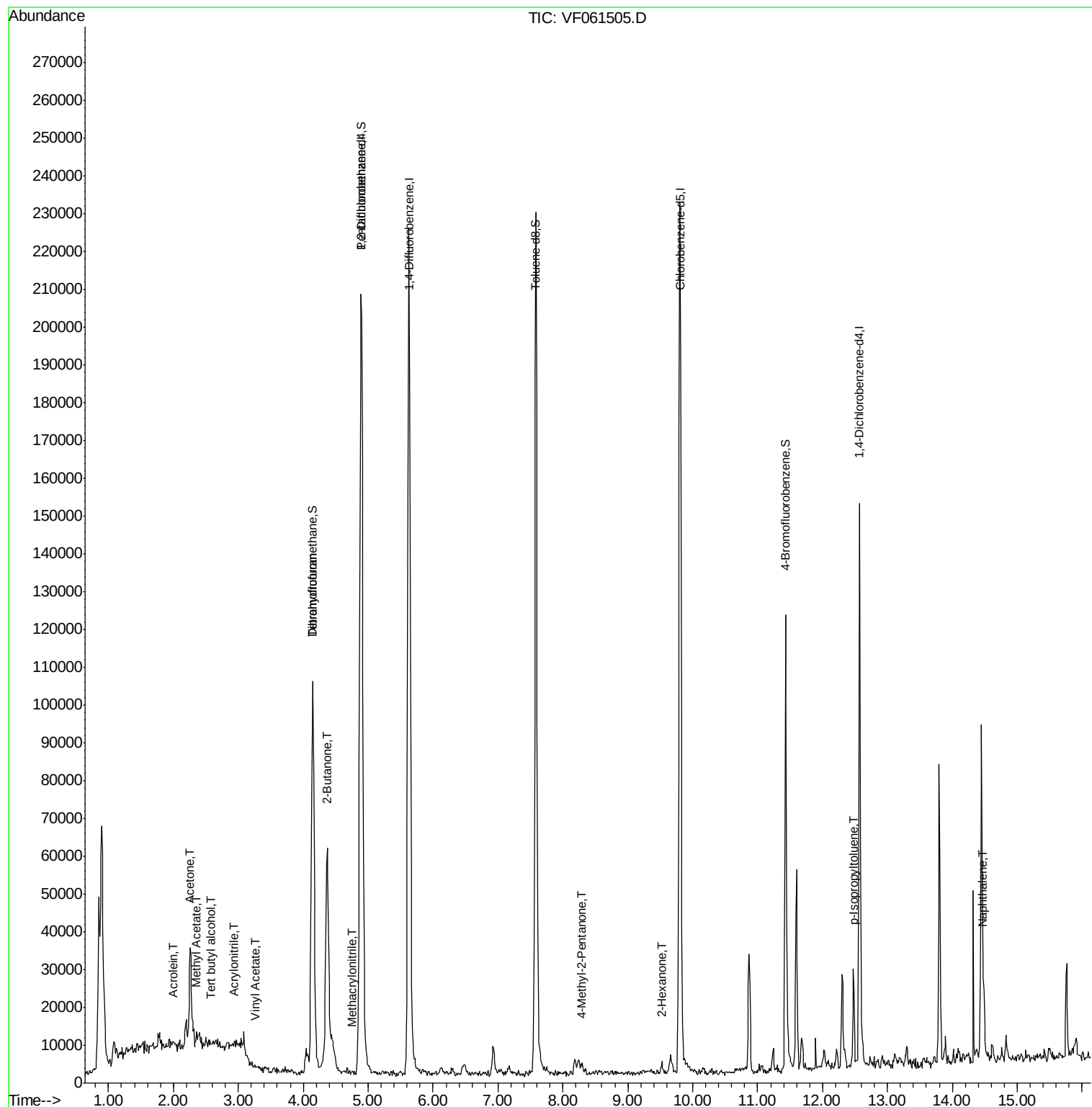
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	84	1.080	ug/l #	1
13) Acrolein	2.01	56	665	19.856	ug/l	94
14) Allyl chloride	2.14	41	394	Below Cal	#	34
15) Acrylonitrile	2.94	53	300	1.506	ug/l #	84
16) Acetone	2.26	43	37118	100.723	ug/l	95
18) Methyl Acetate	2.36	43	2701	3.696	ug/l #	76
23) Vinyl Acetate	3.25	43	209	3.293	ug/l #	78
25) 2-Butanone	4.37	43	124136	202.562	ug/l	100
29) Tetrahydrofuran	4.13	42	432	1.637	ug/l #	54
41) Methacrylonitrile	4.75	41	672	1.045	ug/l #	41
49) 1,4-Dioxane	6.29	88	63	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.30	43	3298	2.958	ug/l #	82
59) 2-Hexanone	9.53	43	2653	3.412	ug/l	87
86) p-Isopropyltoluene	12.48	119	14510	5.075	ug/l	97
95) Naphthalene	14.48	128	4153	2.572	ug/l #	76

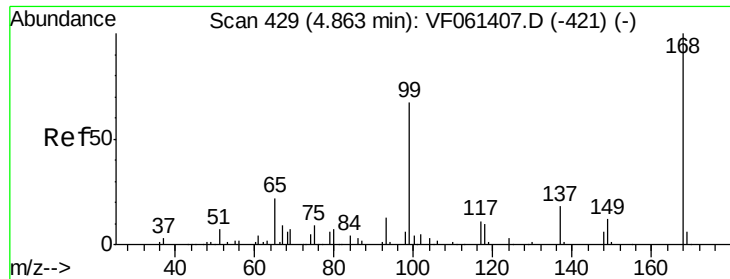
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012419\
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Quant Time: Jan 25 04:09:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.04 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampleId :

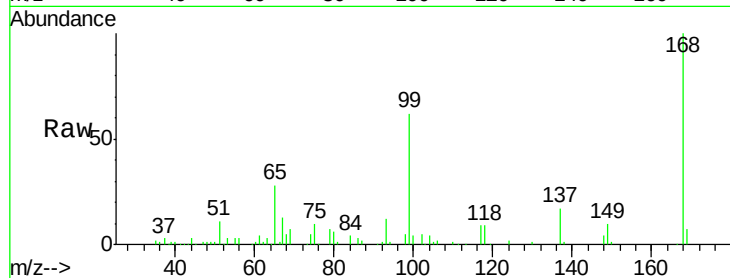
TS-NRE

Tot Ion:168 Resp: 148787

Ion Ratio Lower Upper

168 100

99 62.2 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

50000

40000

30000

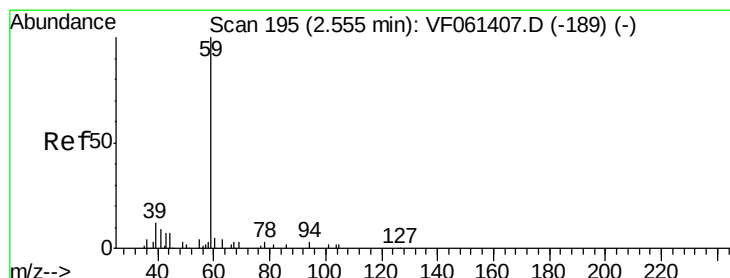
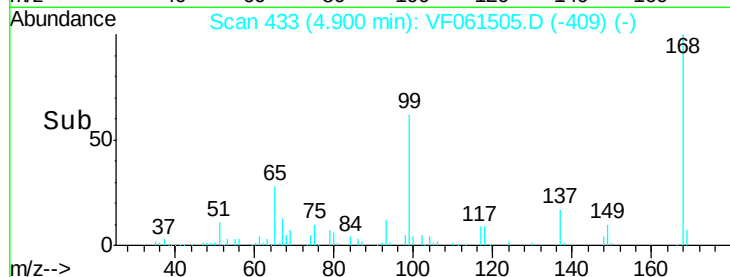
20000

10000

0

Time-->

4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 1.080 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.03 min

Lab File: VF061505.D

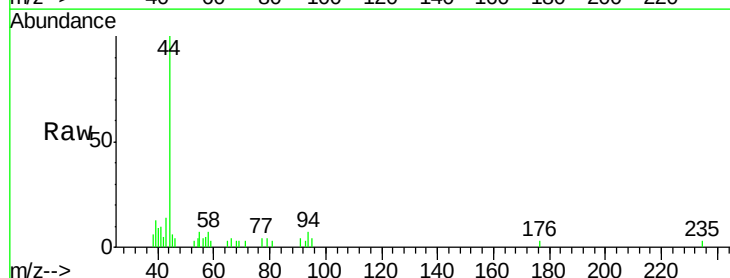
Acq: 24 Jan 2019 17:35

Tgt Ion: 59 Resp: 84

Ion Ratio Lower Upper

59 100

57 131.7 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

200

150

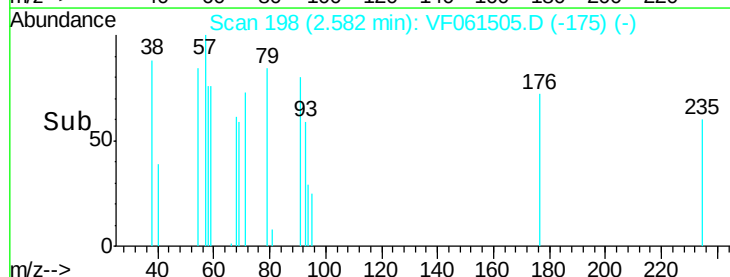
100

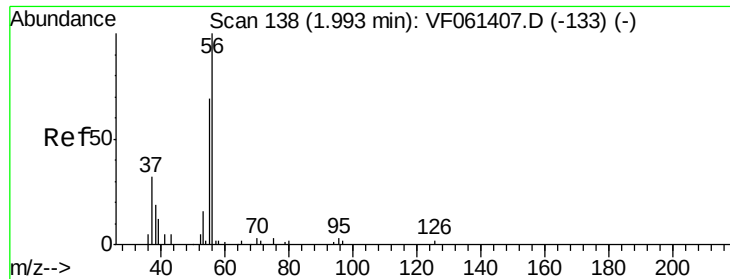
50

0

Time-->

2.56 2.58 2.60





#13

Acrolein

Concen: 19.856 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.02 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

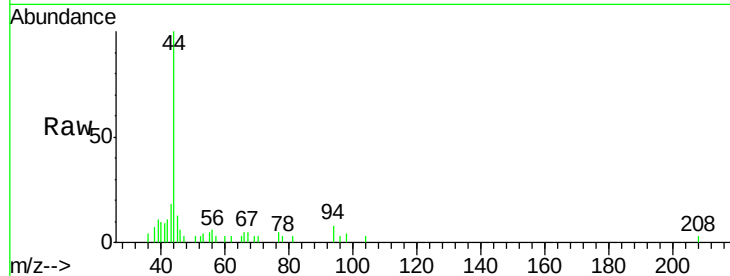
Instrument :
MSVOA_F
ClientSampleId :
TS-NRE

Tot Ion: 56 Resp: 665

Ion Ratio Lower Upper

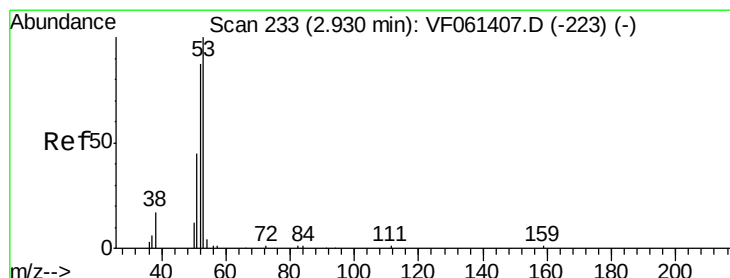
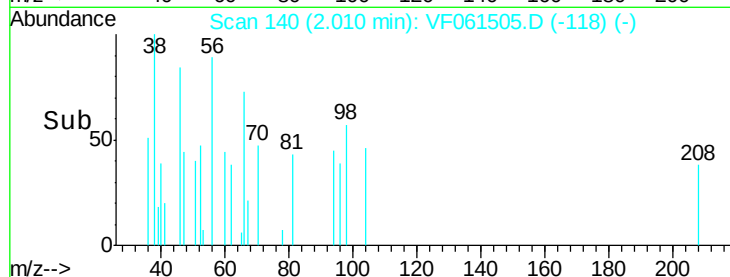
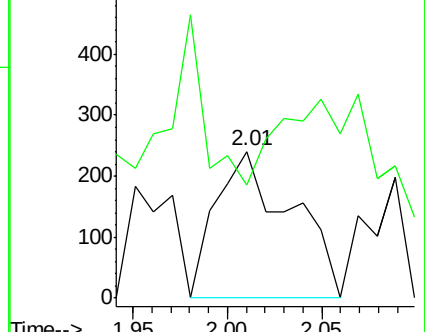
56 100

55 77.2 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.506 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

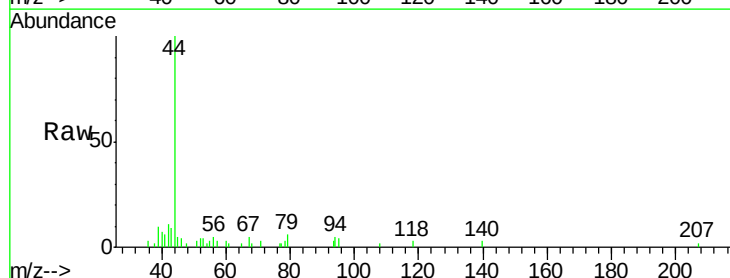
Tgt Ion: 53 Resp: 300

Ion Ratio Lower Upper

53 100

52 88.4 69.6 104.4

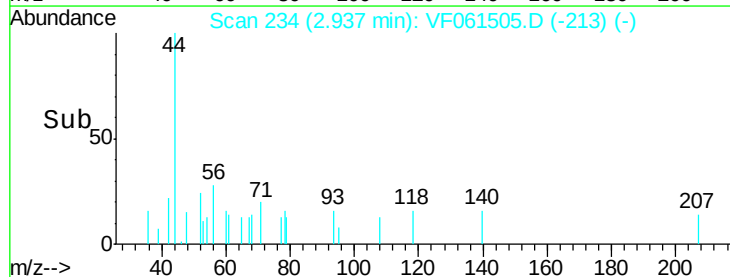
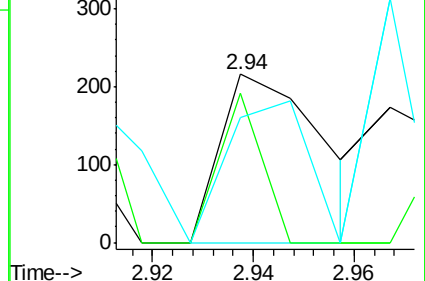
51 74.1 36.8 55.2#

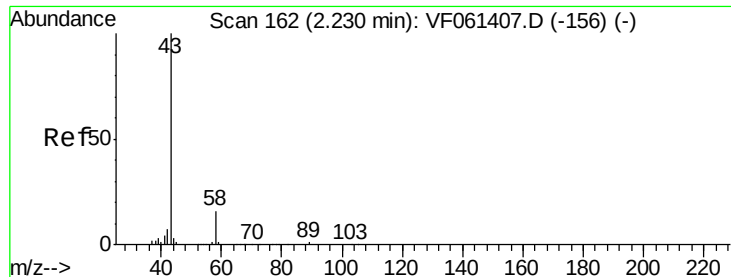


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

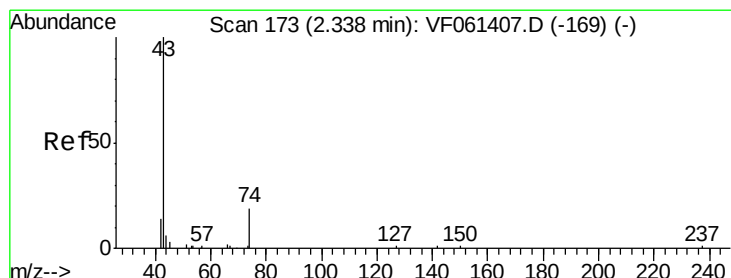
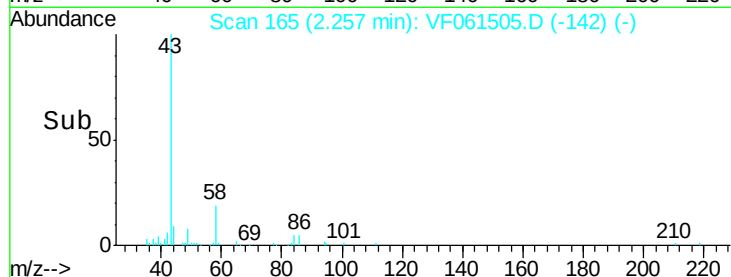
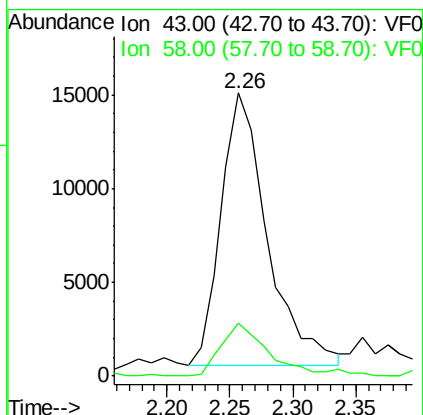
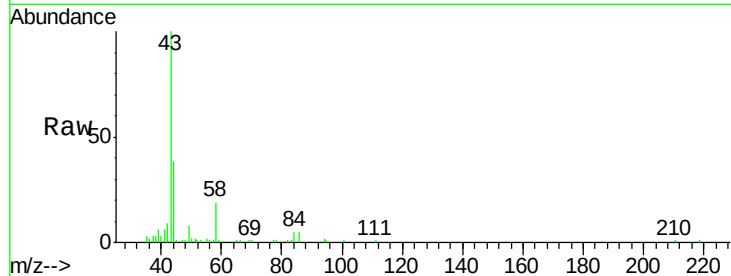




#16
Acetone
Concen: 100.723 ug/l
RT: 2.26 min Scan# 165
Delta R.T. 0.03 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

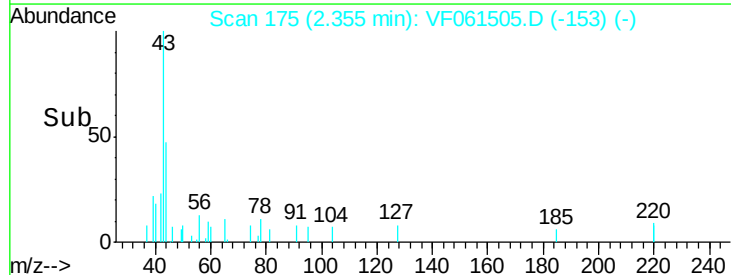
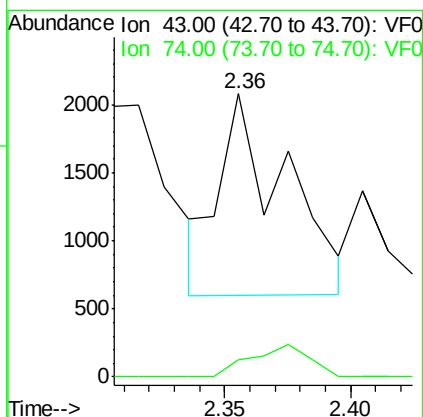
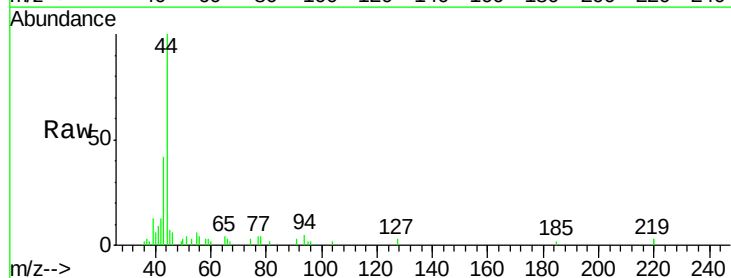
Instrument :
MSVOA_F
ClientSampleId :
TS-NRE

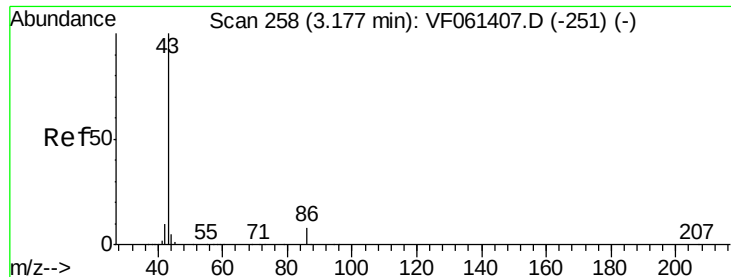
Tot Ion: 43 Resp: 37118
Ion Ratio Lower Upper
43 100
58 18.7 13.3 19.9



#18
Methyl Acetate
Concen: 3.696 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

Tgt Ion: 43 Resp: 2701
Ion Ratio Lower Upper
43 100
74 6.3 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.293 ug/l

RT: 3.25 min Scan# 266

Delta R.T. 0.08 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampled :

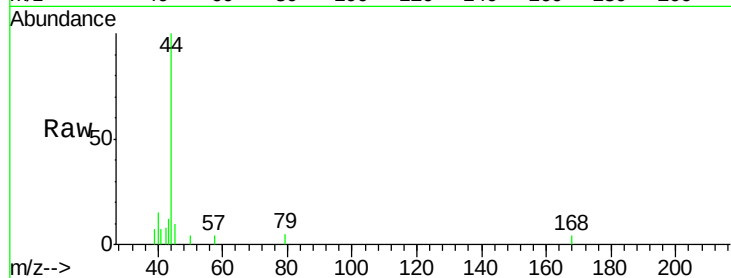
TS-NRE

Tot Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.25

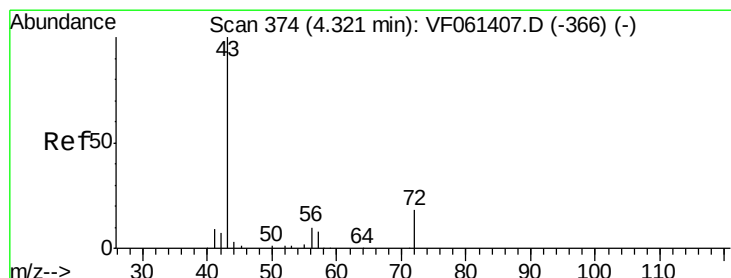
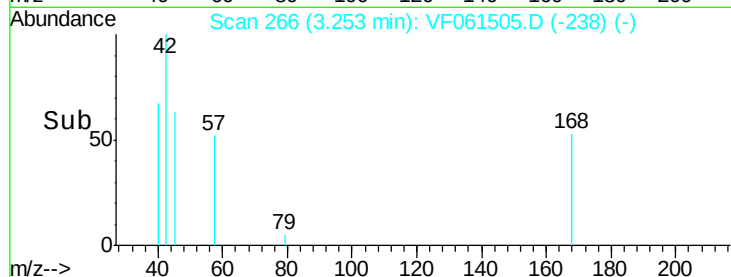
300

200

100

0

Time--> 3.22 3.24 3.26



#25

2-Butanone

Concen: 202.562 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.05 min

Lab File: VF061505.D

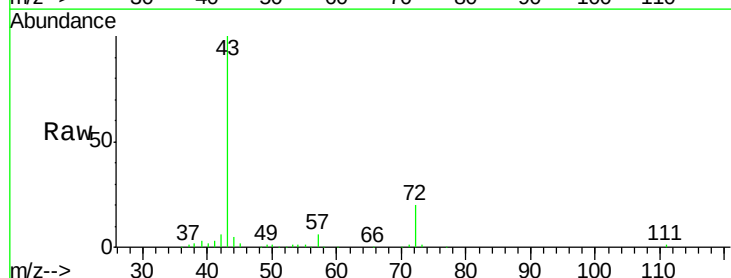
Acq: 24 Jan 2019 17:35

Tgt Ion: 43 Resp: 124136

Ion Ratio Lower Upper

43 100

72 19.9 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.37

40000

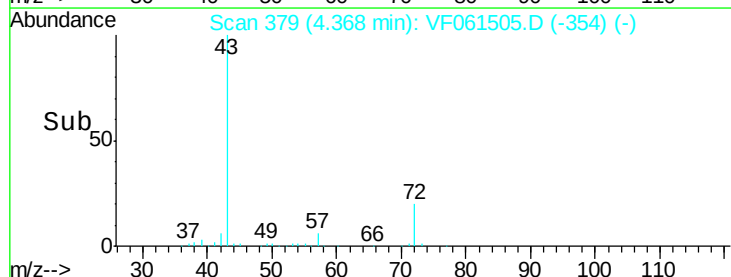
30000

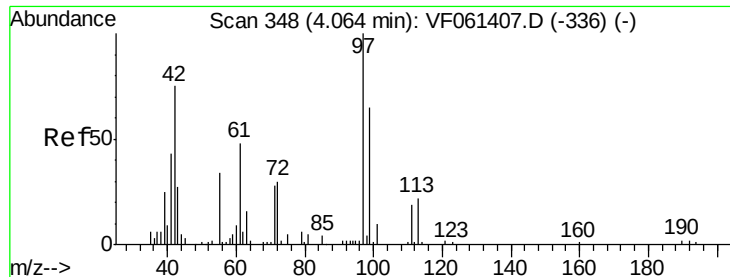
20000

10000

0

Time--> 4.20 4.30 4.40 4.50





#29

Tetrahydrofuran

Concen: 1.637 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.07 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampleId :

TS-NRE

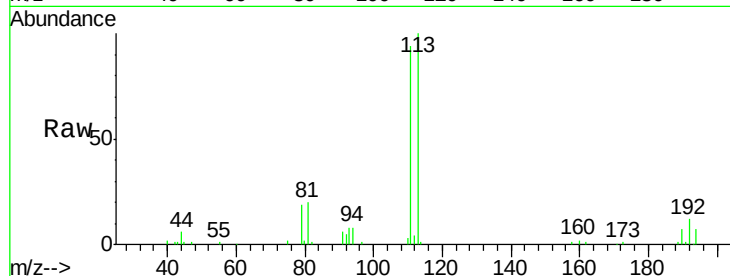
Tot Ion: 42 Resp: 432

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

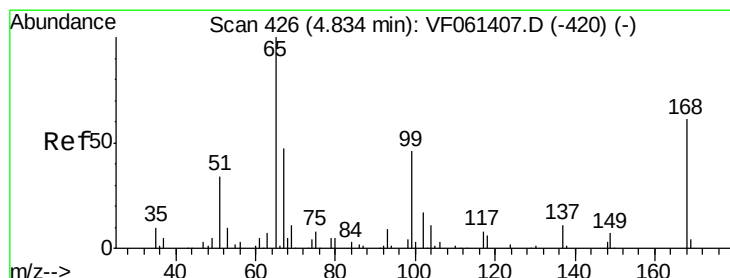
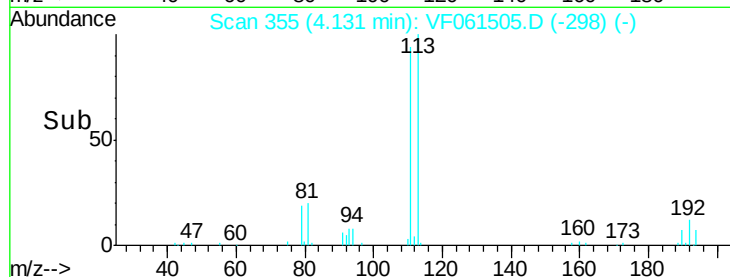
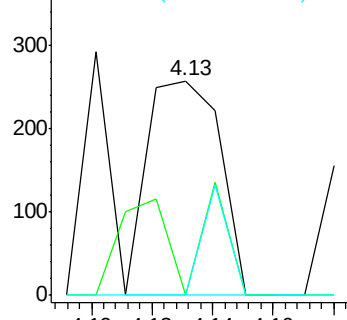
71 18.3 29.6 44.4#



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



#33

1,2-Dichloroethane-d4

Concen: 51.273 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.05 min

Lab File: VF061505.D

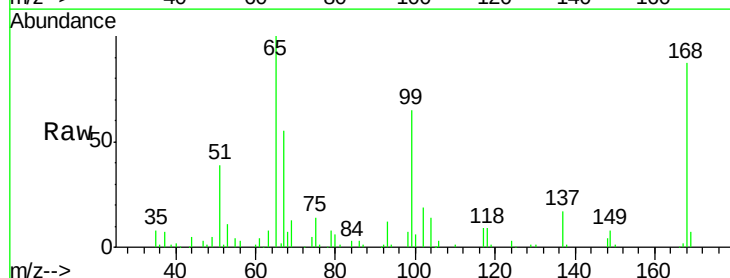
Acq: 24 Jan 2019 17:35

Tgt Ion: 65 Resp: 94187

Ion Ratio Lower Upper

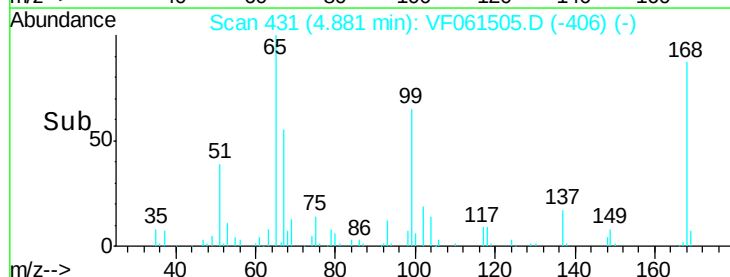
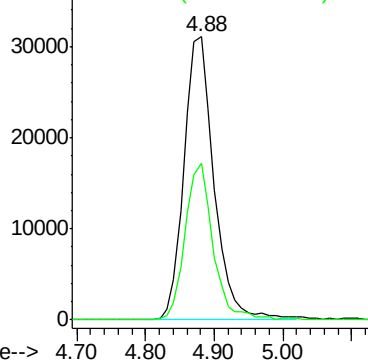
65 100

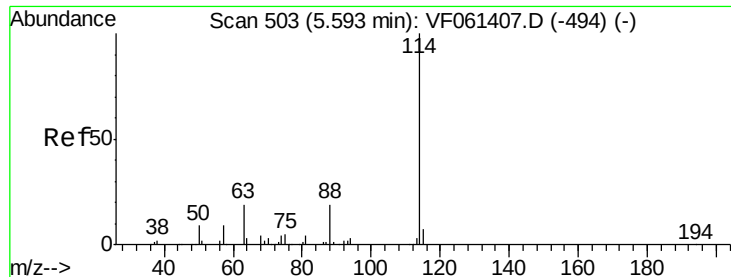
67 55.3 0.0 99.8



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: 5.63 min Scan# 507

Delta R.T. 0.04 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampleId :

TS-NRE

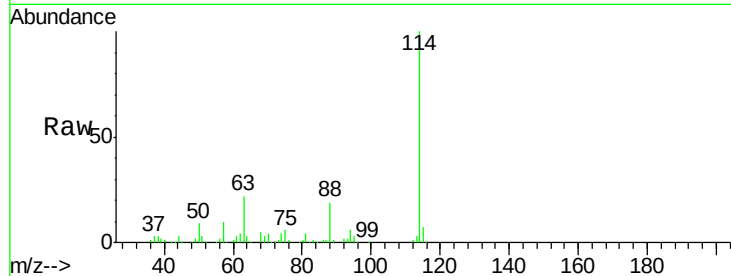
Tot Ion:114 Resp: 260723

Ion Ratio Lower Upper

114 100

63 22.2 0.0 39.0

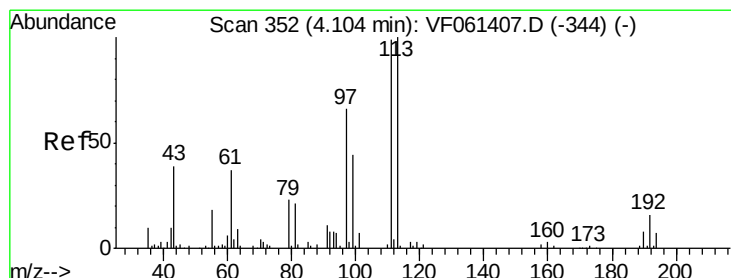
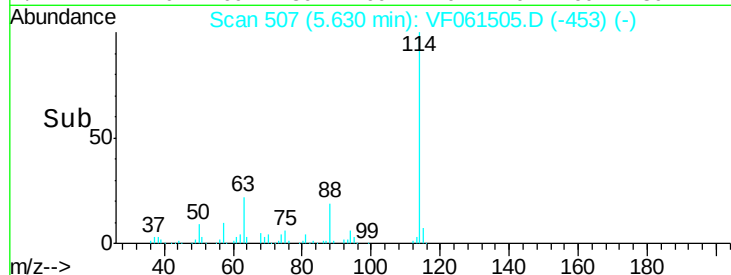
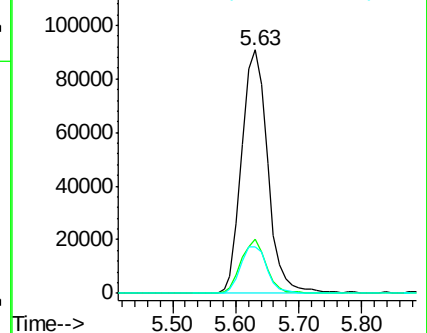
88 19.4 0.0 37.4



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: 49.201 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.05 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

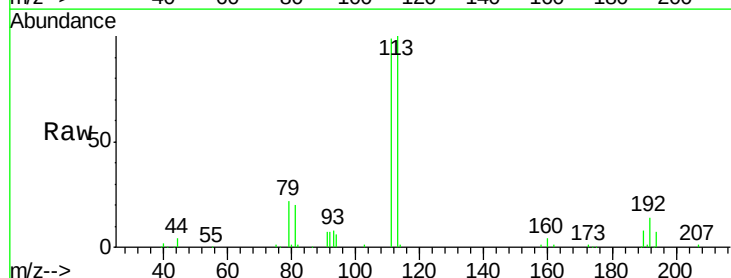
Tgt Ion:113 Resp: 101222

Ion Ratio Lower Upper

113 100

111 98.8 79.4 119.0

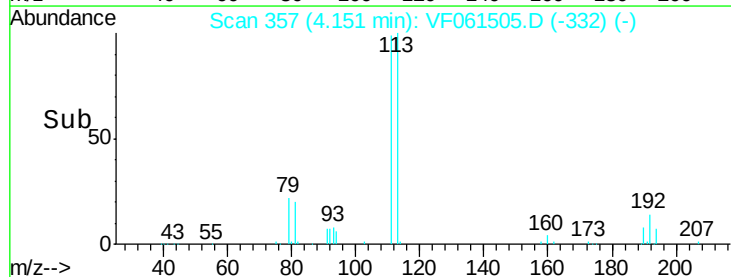
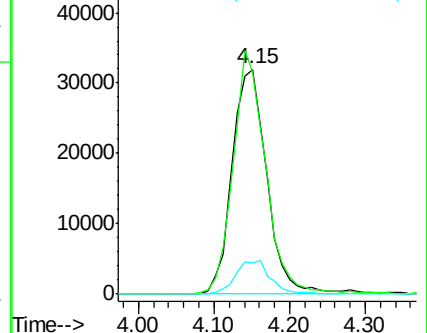
192 14.1 12.4 18.6

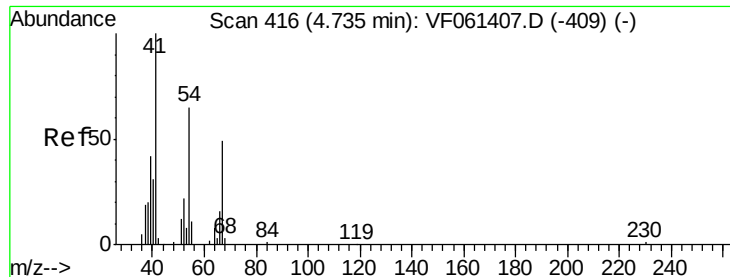


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 1.045 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.02 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampled :

TS-NRE

Tot Ion: 41 Resp: 672

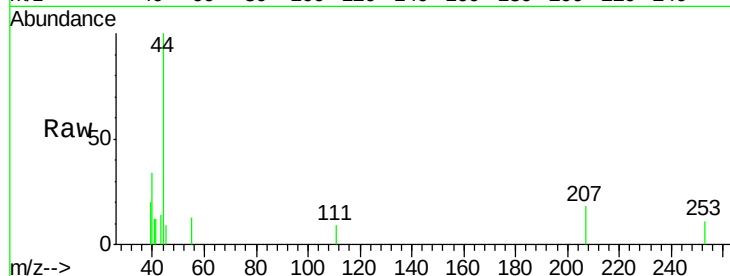
Ion Ratio Lower Upper

41 100

39 84.3 43.1 64.7#

67 0.0 38.8 58.2#

52 0.0 33.2 49.8#

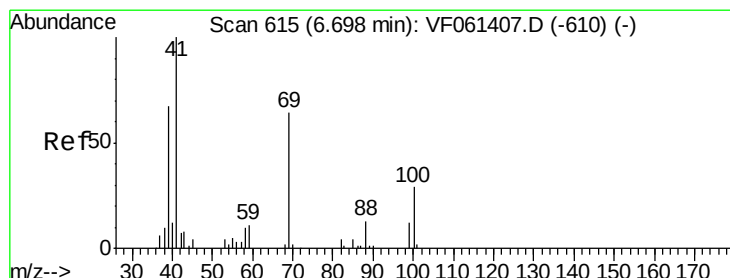
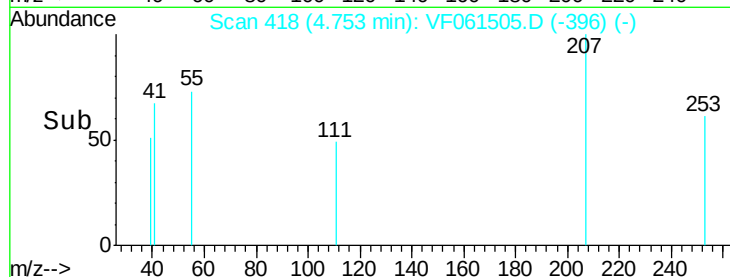
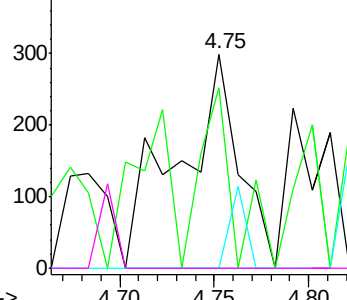


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.29 min Scan# 574

Delta R.T. -0.41 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

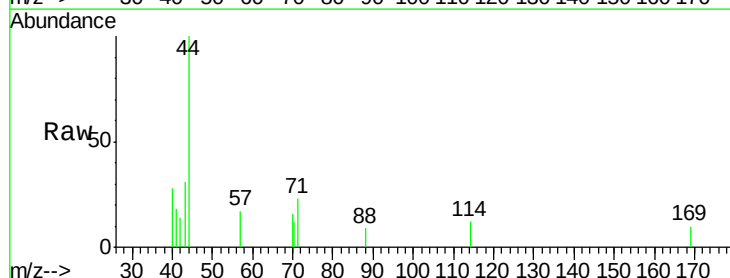
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 356.6 55.5 83.3#

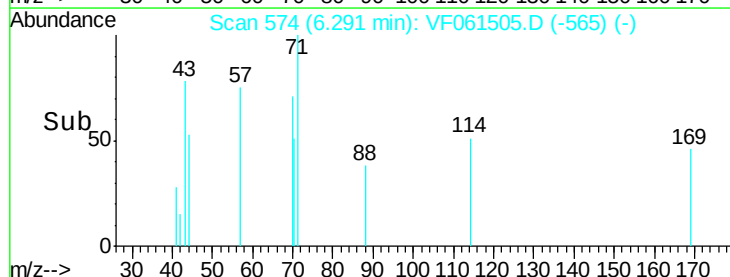
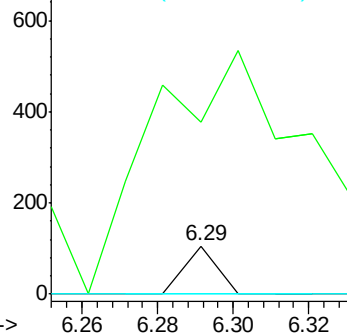
58 0.0 59.9 89.9#

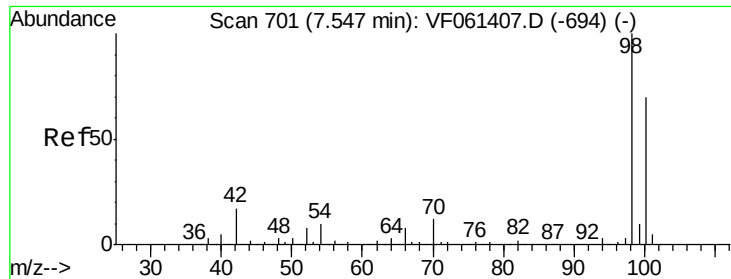


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 33.236 ug/l

RT: 7.58 min Scan# 705

Delta R.T. 0.04 min

Lab File: VF061505.D

Acq: 24 Jan 2019 17:35

Instrument :

MSVOA_F

ClientSampleId :

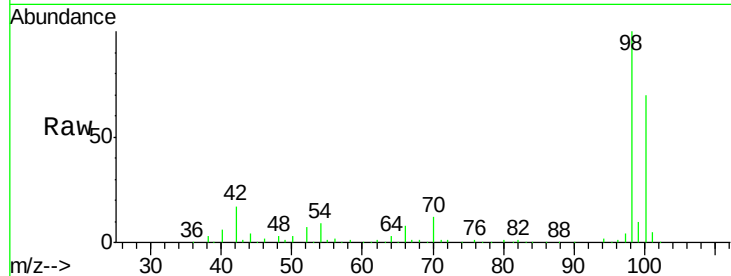
TS-NRE

Tot Ion: 98 Resp: 187340

Ion Ratio Lower Upper

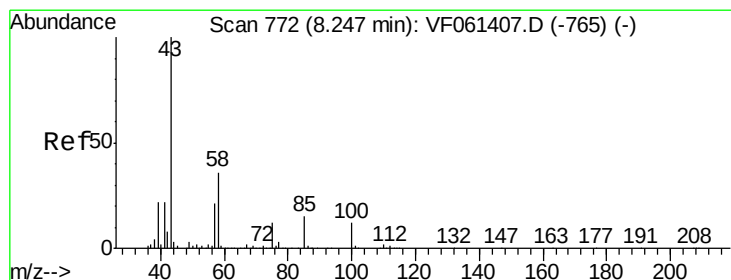
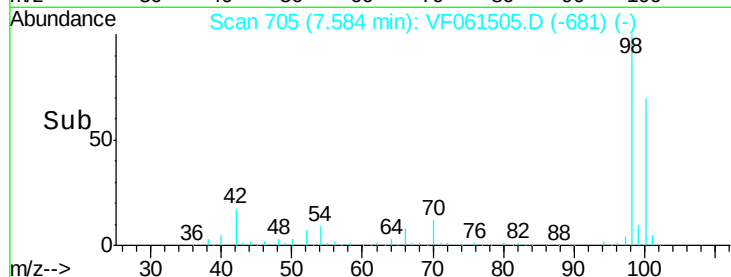
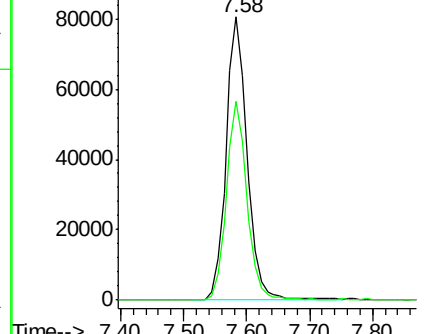
98 100

100 70.2 55.6 83.4



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: 2.958 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.06 min

Lab File: VF061505.D

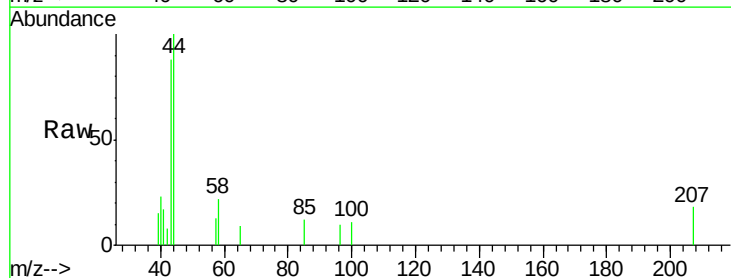
Acq: 24 Jan 2019 17:35

Tgt Ion: 43 Resp: 3298

Ion Ratio Lower Upper

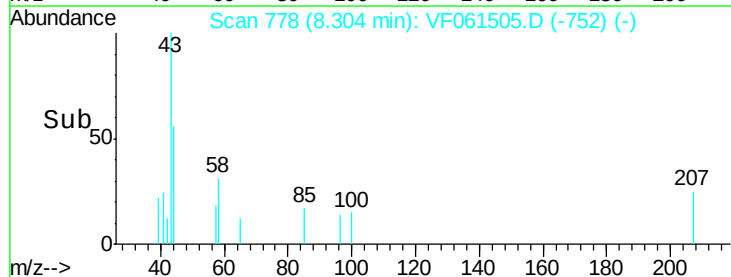
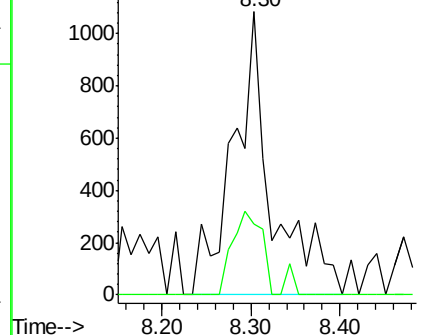
43 100

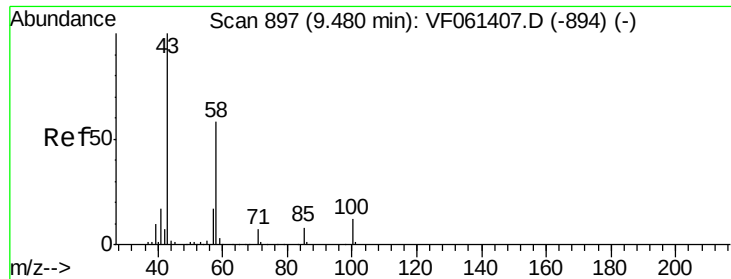
58 25.3 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

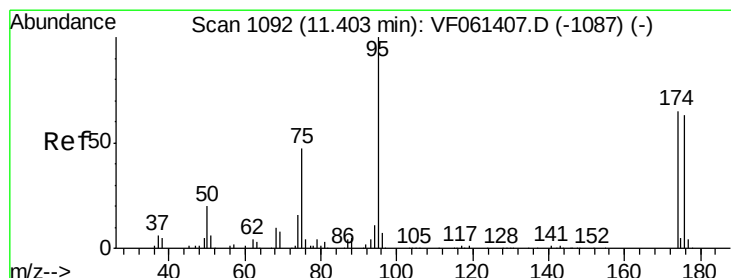
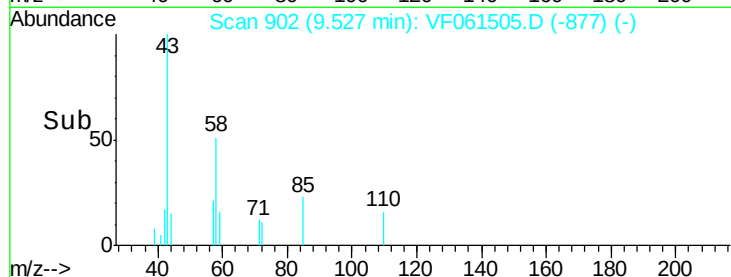
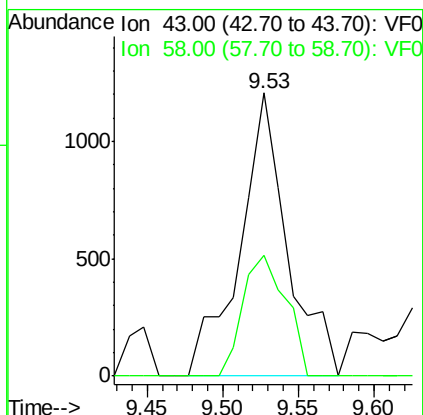
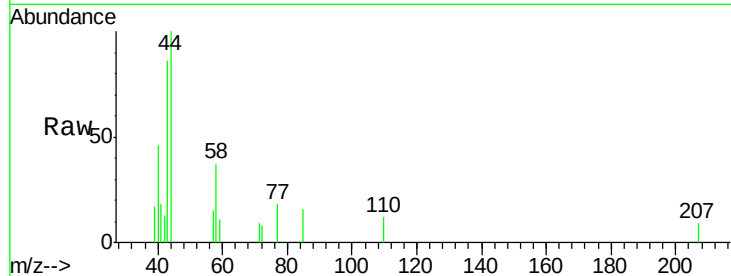




#59
2-Hexanone
Concen: 3.412 ug/l
RT: 9.53 min Scan# 902
Delta R.T. 0.05 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

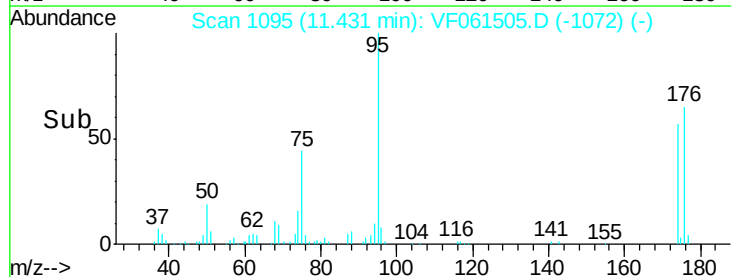
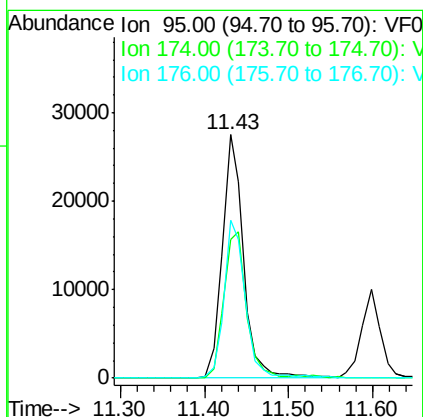
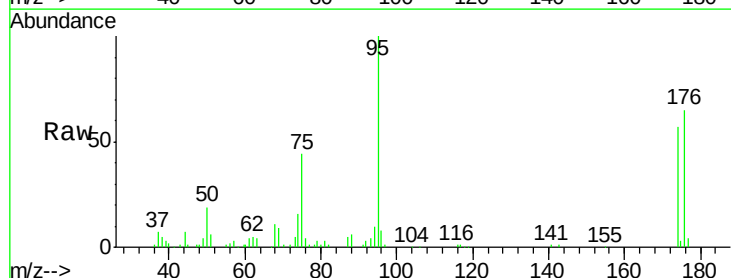
Instrument :
MSVOA_F
ClientSampled :
TS-NRE

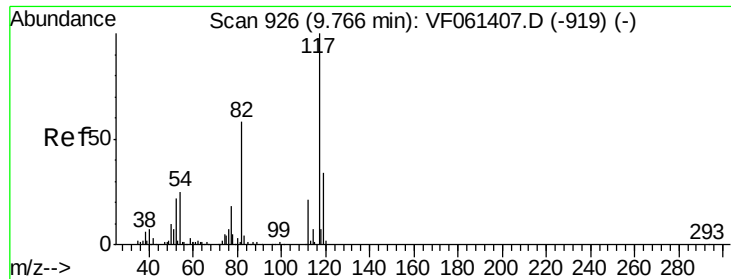
Tot Ion: 43 Resp: 2653
Ion Ratio Lower Upper
43 100
58 42.9 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 18.316 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.03 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

Tgt Ion: 95 Resp: 48237
Ion Ratio Lower Upper
95 100
174 57.2 0.0 130.4
176 64.6 0.0 126.2

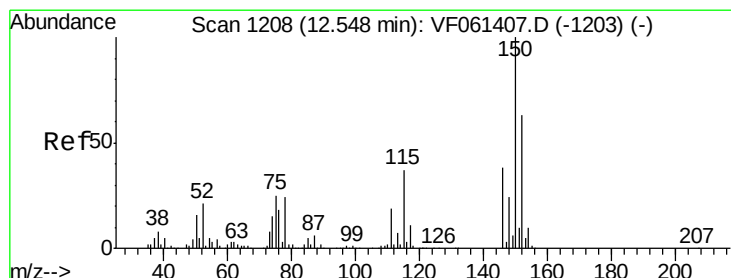
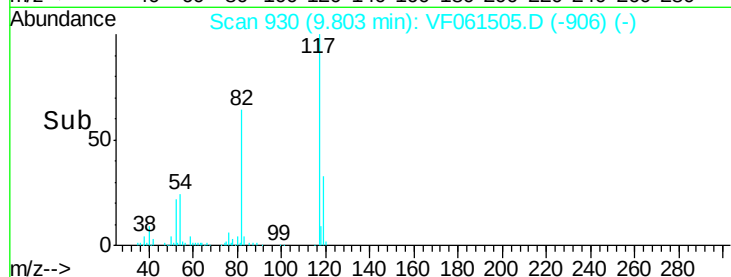
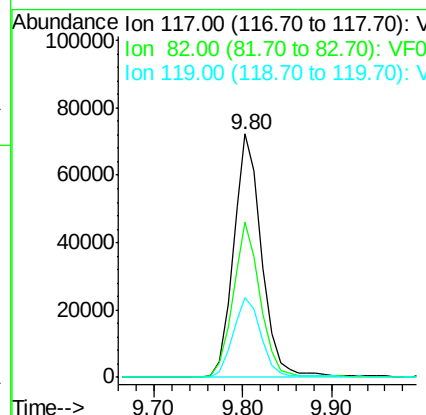
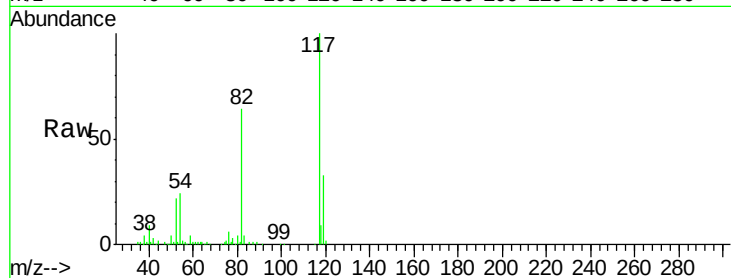




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.04 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

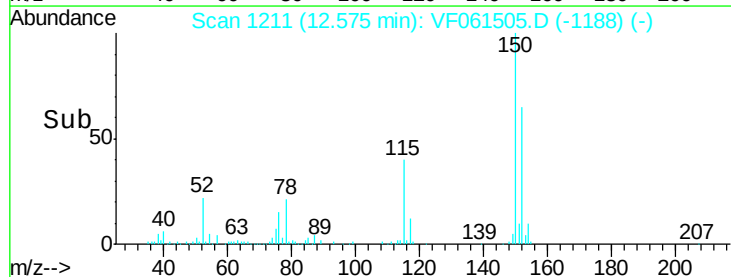
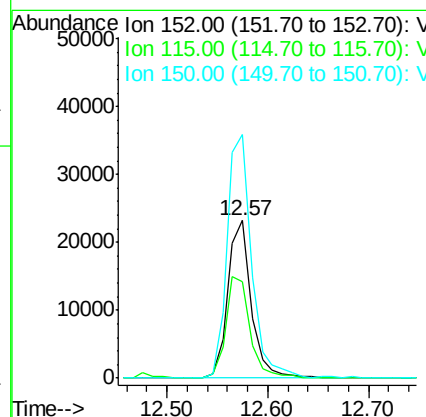
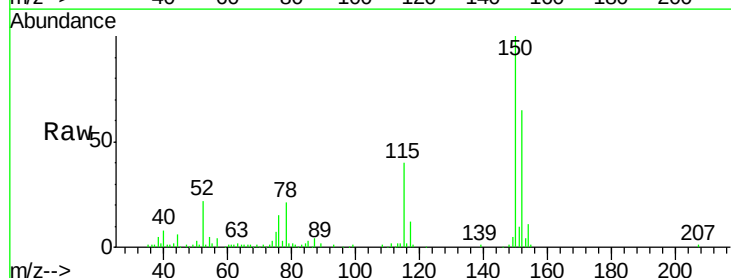
Instrument :
MSVOA_F
ClientSampleId :
TS-NRE

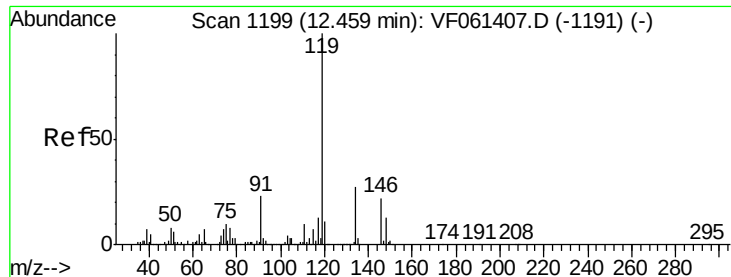
Tot Ion:117 Resp: 159368
Ion Ratio Lower Upper
117 100
82 63.7 46.4 69.6
119 32.5 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.03 min
Lab File: VF061505.D
Acq: 24 Jan 2019 17:35

Tgt Ion:152 Resp: 37756
Ion Ratio Lower Upper
152 100
115 61.2 30.0 90.0
150 154.7 0.0 321.4

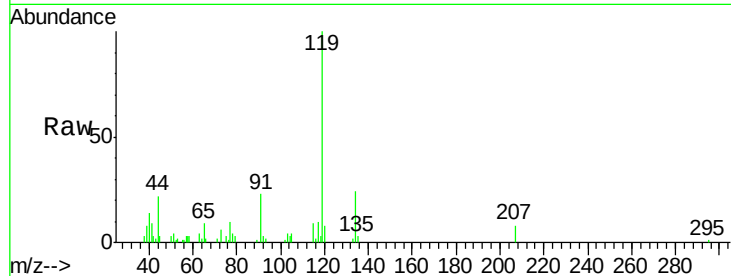




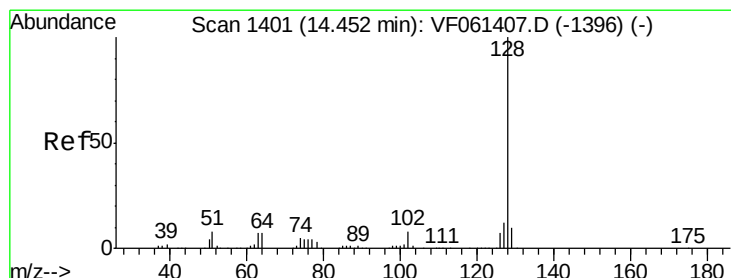
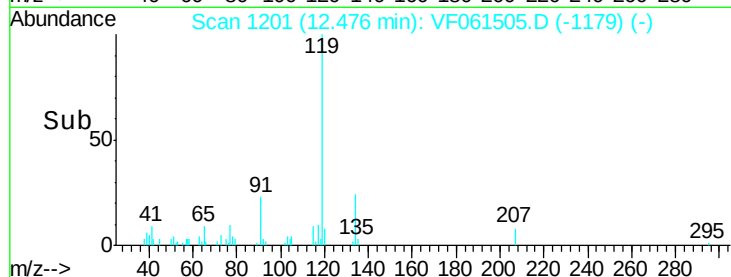
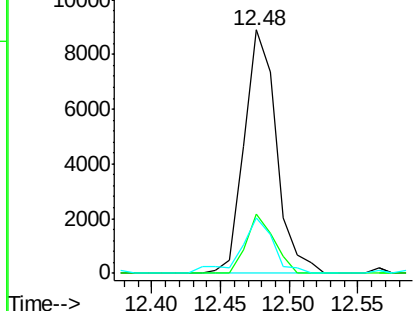
#86
 p-Isopropyltoluene
 Concen: 5.075 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. 0.02 min
 Lab File: VF061505.D
 Acq: 24 Jan 2019 17:35

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-NRE

Tot Ion:119 Resp: 14510
 Ion Ratio Lower Upper
 119 100
 134 24.2 13.4 40.2
 91 22.8 11.4 34.2

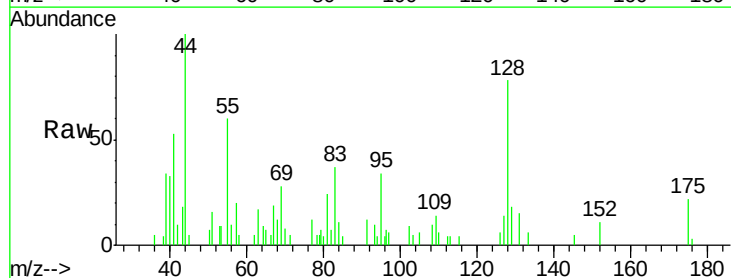


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V



#95
 Naphthalene
 Concen: 2.572 ug/l
 RT: 14.48 min Scan# 1404
 Delta R.T. 0.03 min
 Lab File: VF061505.D
 Acq: 24 Jan 2019 17:35

Tgt Ion:128 Resp: 4153
 Ion Ratio Lower Upper
 128 100
 127 17.8 9.5 14.3#
 129 23.5 8.4 12.6#



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

