

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062530.D
 Acq On : 13 May 2019 5:16
 Operator : FY/SY
 Sample : K2734-11RE
 Misc : 4.82g/5mL/MSVOA F/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-0002-01RE

Quant Time: May 13 07:32:47 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	5.08	168	224008	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	283584	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	194892	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.63	152	77626	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	117250	55.39	ug/l	0.04
Spiked Amount			Recovery	=	110.78%	
35) Dibromofluoromethane	4.33	113	142250	62.96	ug/l	0.03
Spiked Amount			Recovery	=	125.92%	
50) Toluene-d8	7.73	98	251944	46.07	ug/l	0.03
Spiked Amount			Recovery	=	92.14%	
62) 4-Bromofluorobenzene	11.50	95	81634	33.09	ug/l	0.02
Spiked Amount			Recovery	=	66.18%	

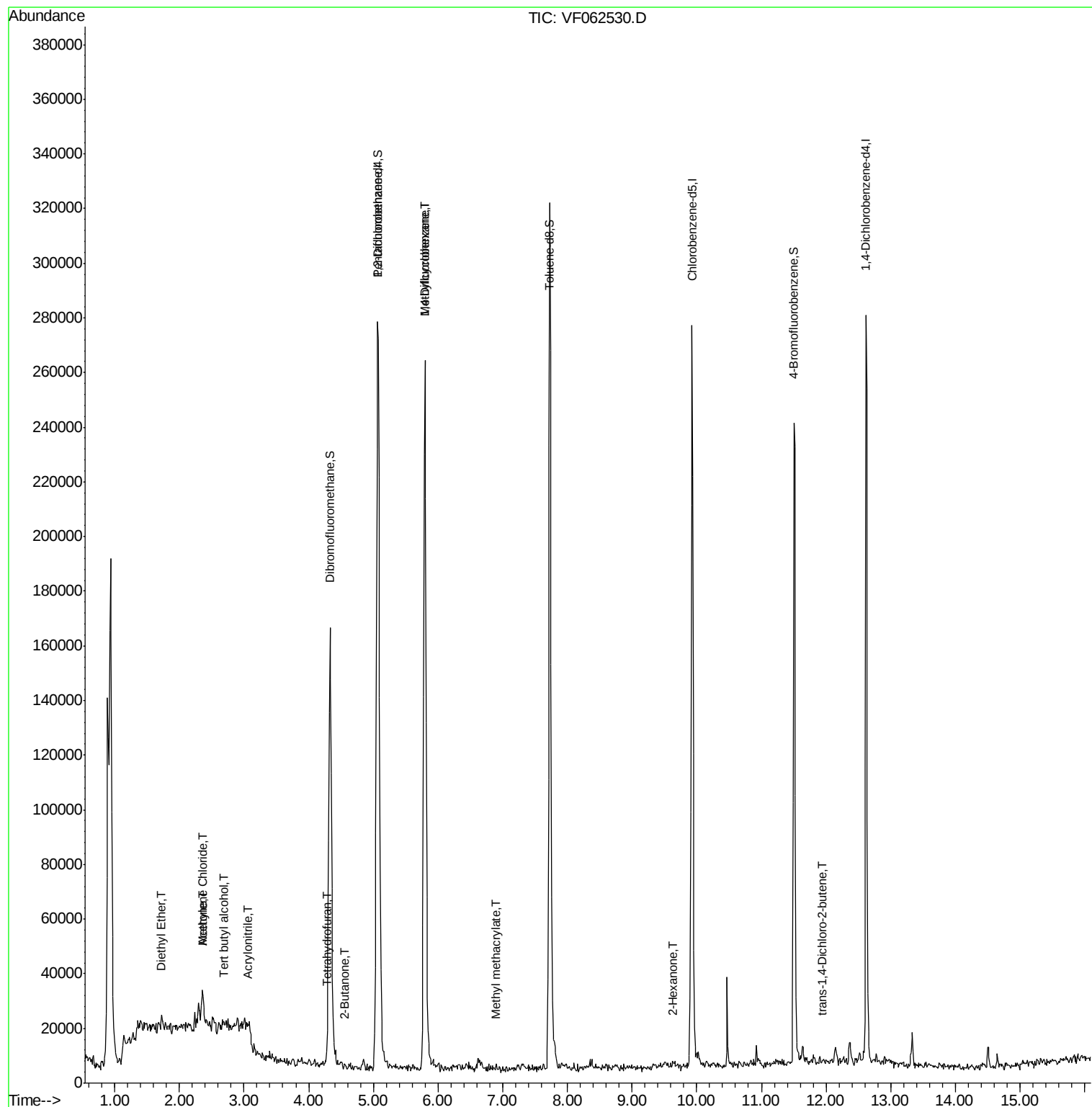
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	429	Below Cal	#	58
8) Diethyl Ether	1.73	74	629	1.175	ug/l	73
11) Tert butyl alcohol	2.70	59	690	5.767	ug/l #	7
13) Acrolein	2.09	56	397	Below Cal	#	78
15) Acrylonitrile	3.06	53	1222	5.392	ug/l #	34
16) Acetone	2.36	43	15257	35.627	ug/l	95
18) Methyl Acetate	2.48	43	1334	Below Cal	#	43
20) Methylene Chloride	2.35	84	3138	2.025	ug/l #	40
25) 2-Butanone	4.55	43	1491	2.771	ug/l	96
29) Tetrahydrofuran	4.28	42	386	1.561	ug/l #	53
37) Ethyl Acetate	4.33	43	464	Below Cal	#	64
38) Carbon Tetrachloride	4.09	117	77	Below Cal	#	14
39) Methylcyclohexane	5.80	83	5601	2.293	ug/l #	40
48) Methyl methacrylate	6.91	41	948	1.211	ug/l #	34
49) 1,4-Dioxane	7.02	88	71	Below Cal	#	1
59) 2-Hexanone	9.64	43	929	1.600	ug/l	79
81) trans-1,4-Dichloro-2-buten	11.95	75	221	1.069	ug/l #	5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

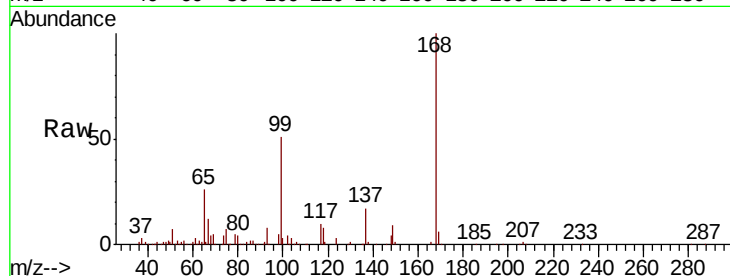
P026-SS013-0002-01RE

Tot Ion:168 Resp: 224008

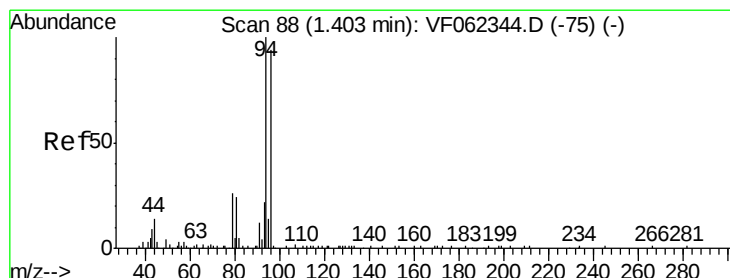
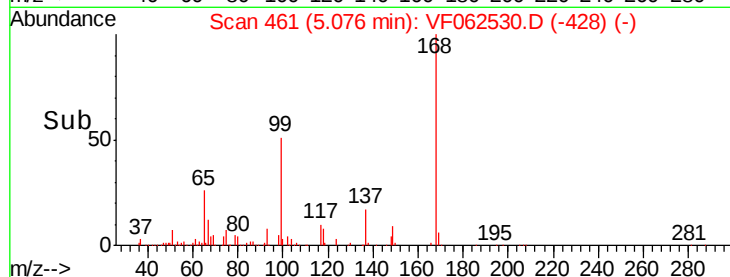
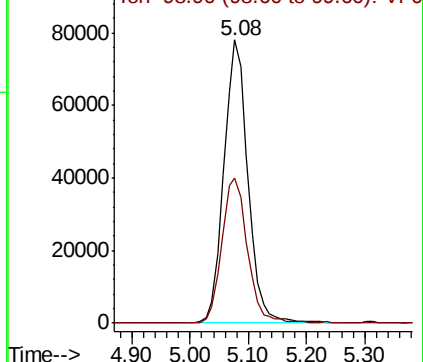
Ion Ratio Lower Upper

168 100

99 51.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062530.D

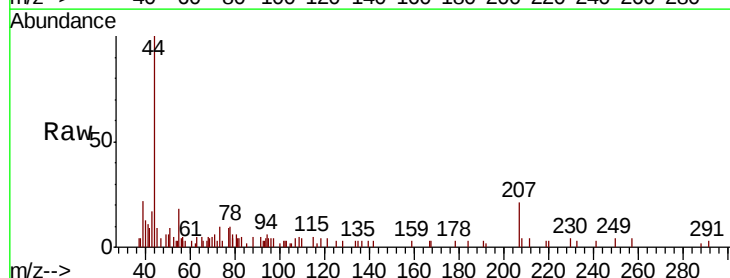
Acq: 13 May 2019 5:16

Tgt Ion: 94 Resp: 429

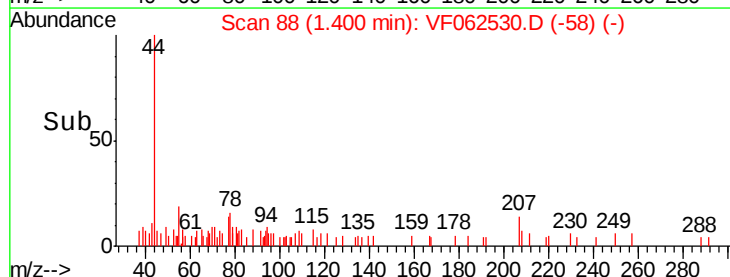
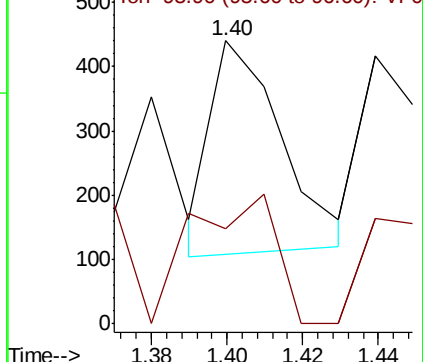
Ion Ratio Lower Upper

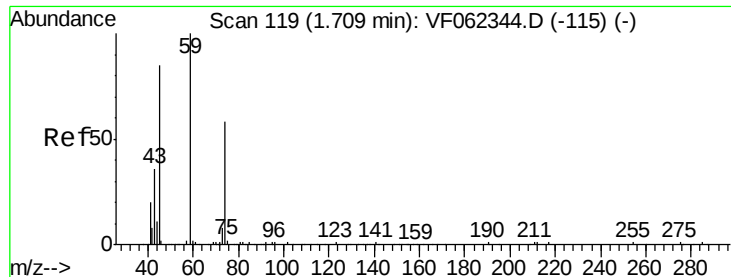
94 100

96 53.8 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0





#8

Diethyl Ether

Concen: 1.175 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.02 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

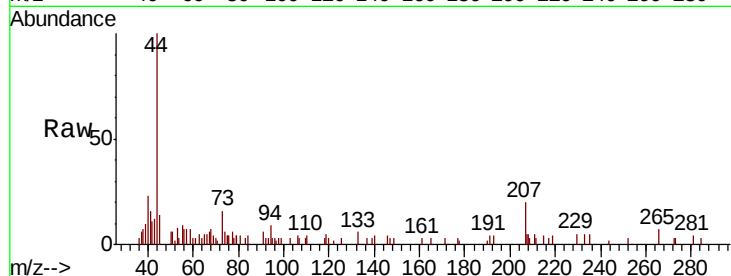
P026-SS013-0002-01RE

Tot Ion: 74 Resp: 629

Ion Ratio Lower Upper

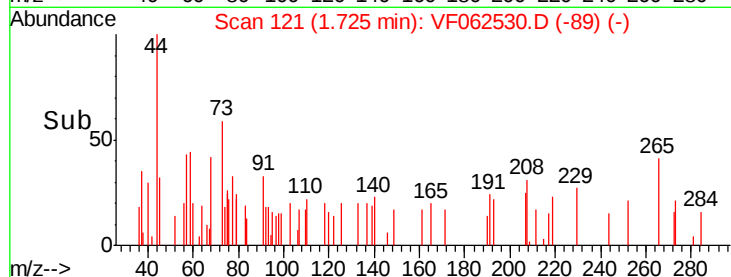
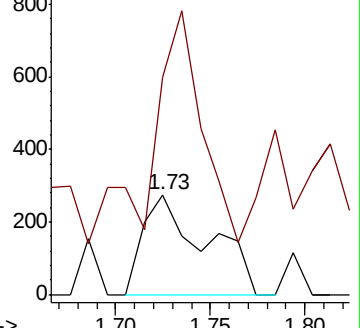
74 100

45 181.6 73.9 221.6

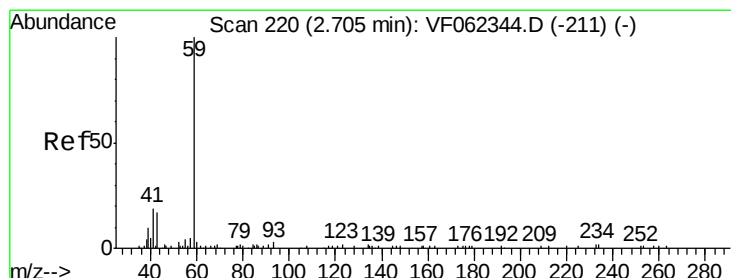


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->



#11

Tert butyl alcohol

Concen: 5.767 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062530.D

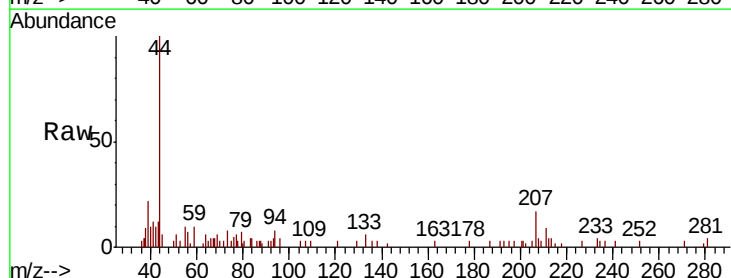
Acq: 13 May 2019 5:16

Tgt Ion: 59 Resp: 690

Ion Ratio Lower Upper

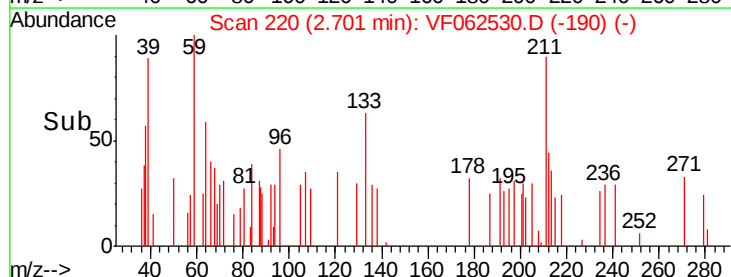
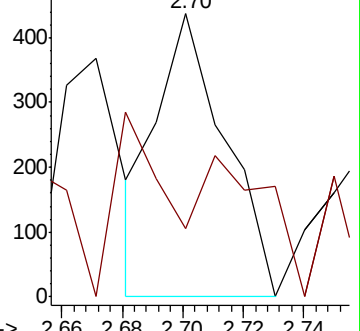
59 100

57 47.5 9.3 13.9#

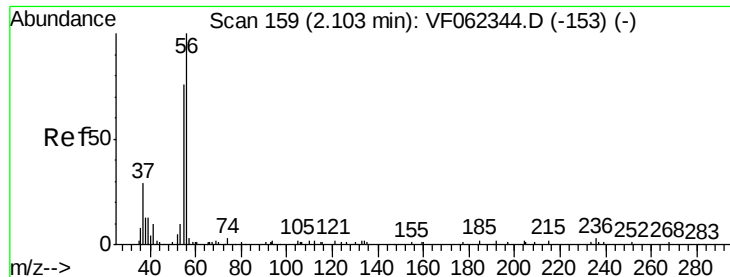


Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->



#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 158

Delta R.T. -0.01 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

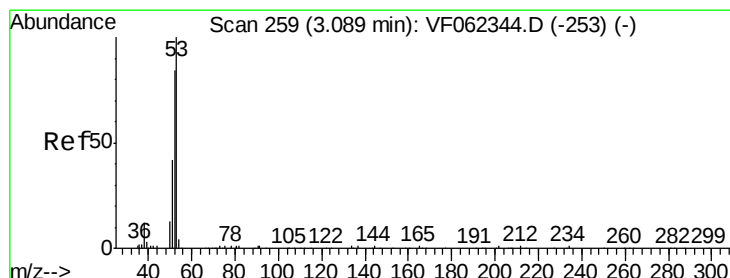
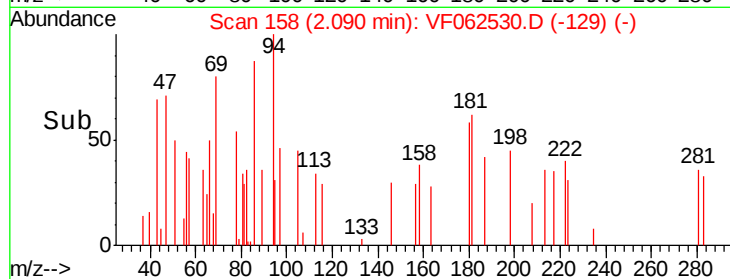
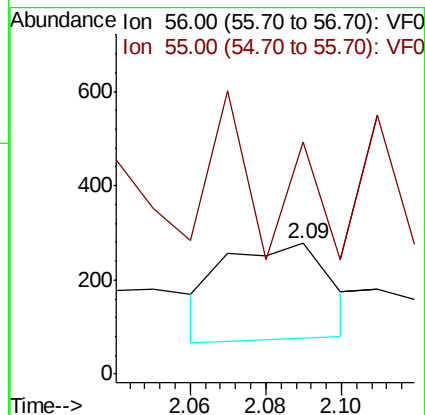
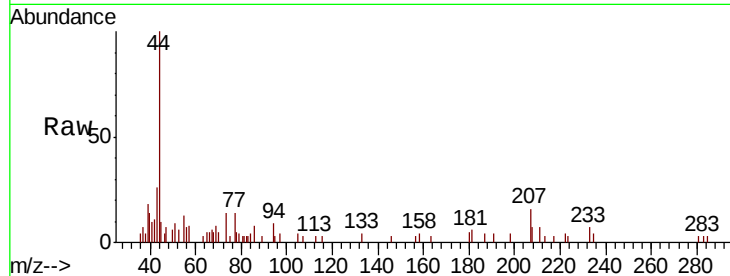
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0002-01RE

Tot Ion: 56 Resp: 397

Ion Ratio Lower Upper

56 100

55 54.7 58.4 87.6#



#15

Acrylonitrile

Concen: 5.392 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.03 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

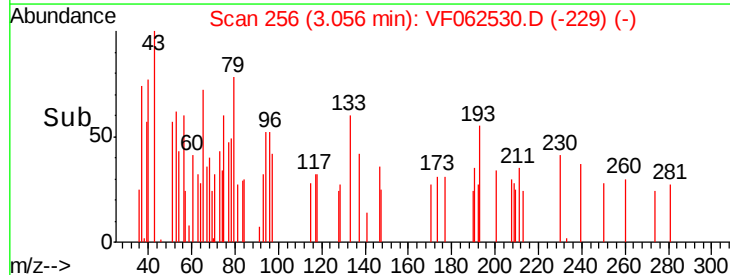
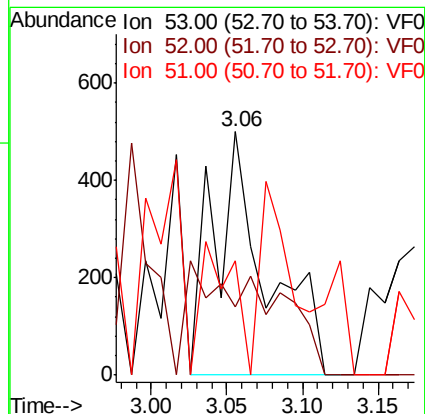
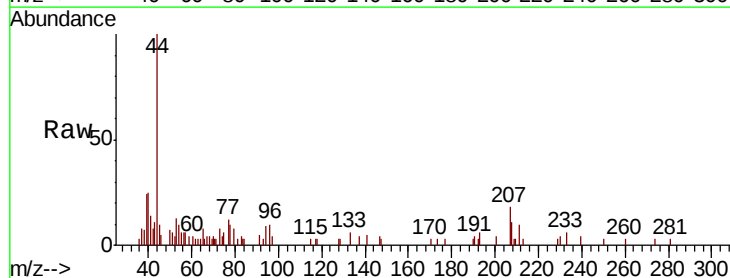
Tgt Ion: 53 Resp: 1222

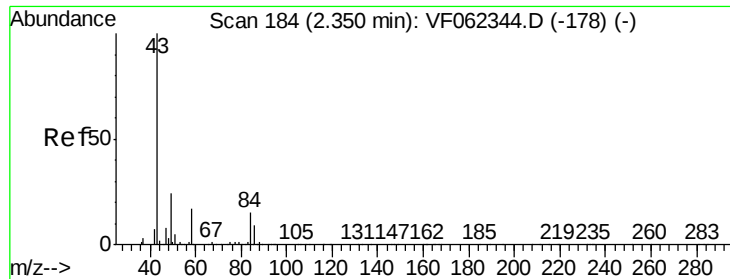
Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 46.8 40.6 61.0





#16

Acetone

Concen: 35.627 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

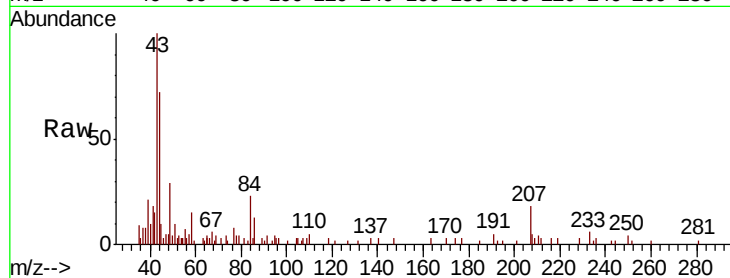
P026-SS013-0002-01RE

Tot Ion: 43 Resp: 15257

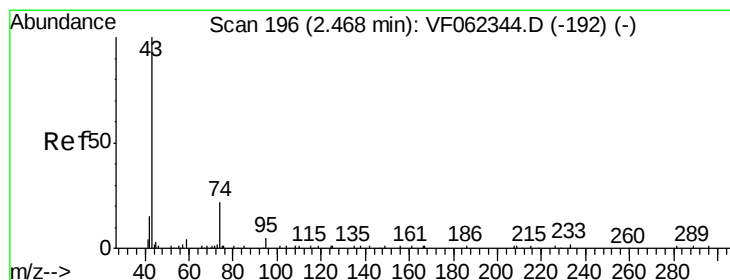
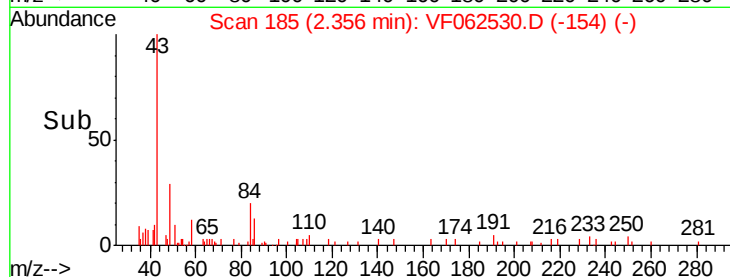
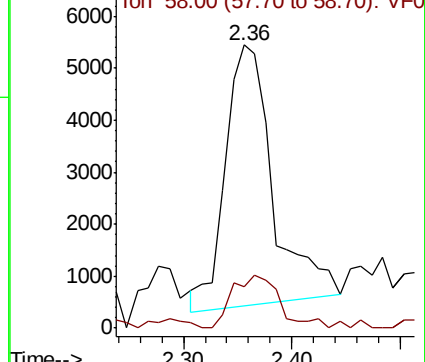
Ion Ratio Lower Upper

43 100

58 14.1 13.1 19.7



Abundance Ion 43.00 (42.70 to 43.70): VF0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.48 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF062530.D

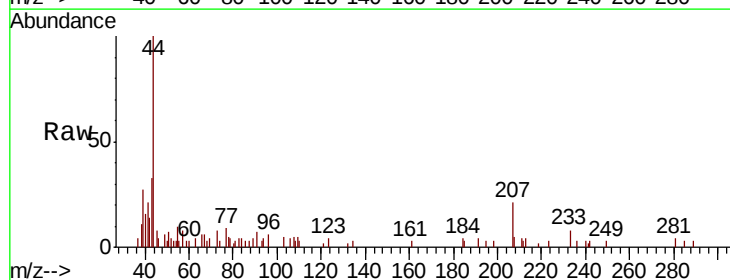
Acq: 13 May 2019 5:16

Tgt Ion: 43 Resp: 1334

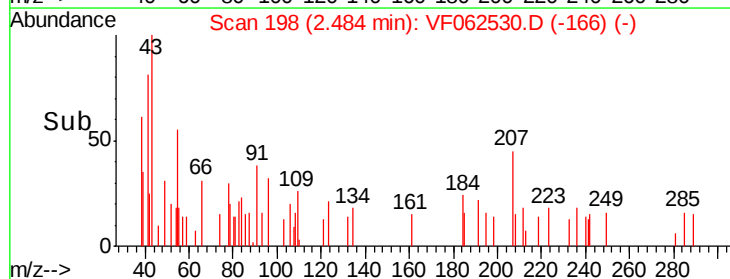
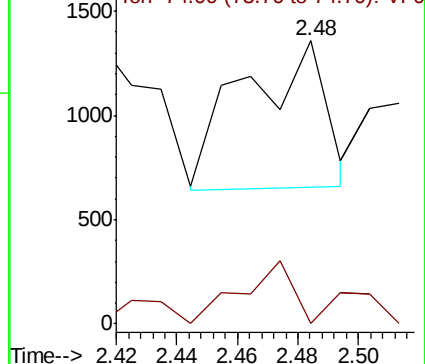
Ion Ratio Lower Upper

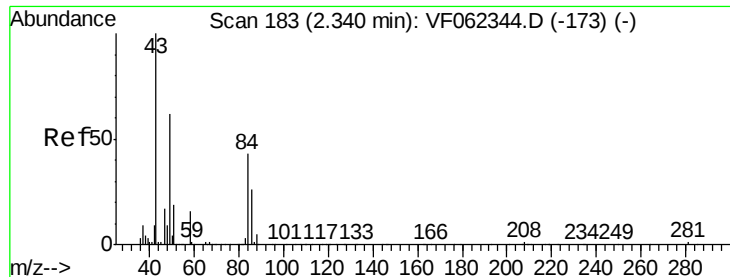
43 100

74 44.5 15.0 22.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

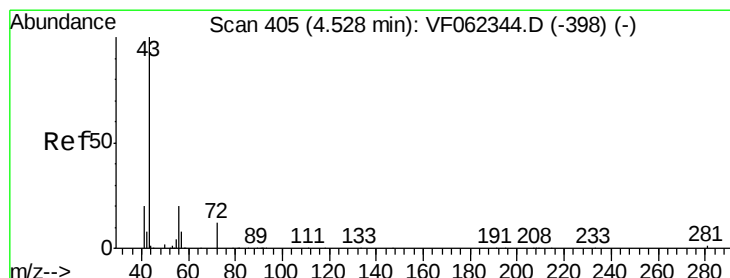
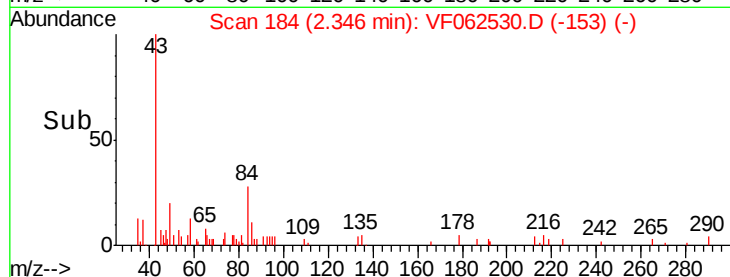
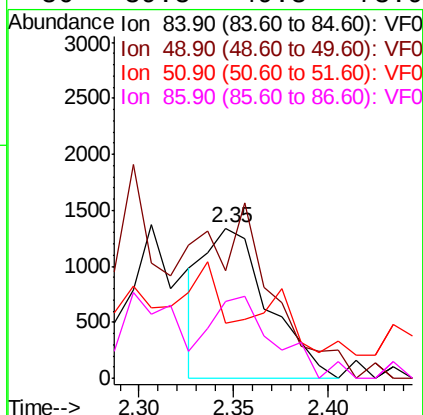
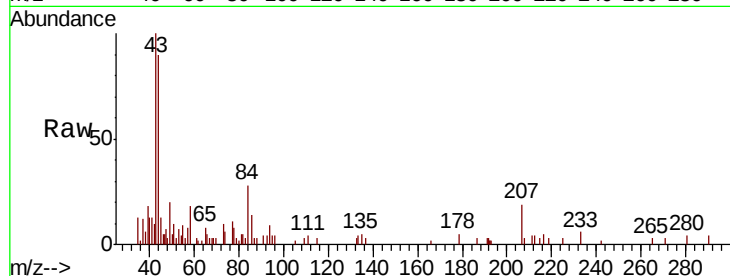




#20
Methvlene Chloride
Concen: 2.025 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

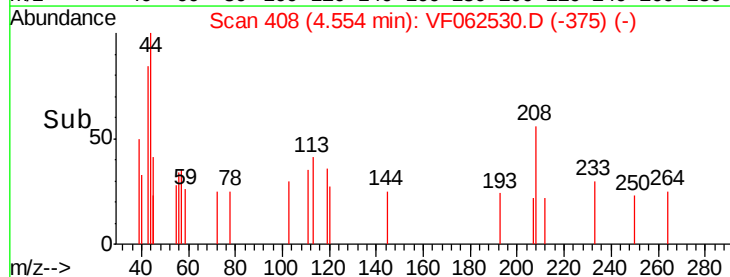
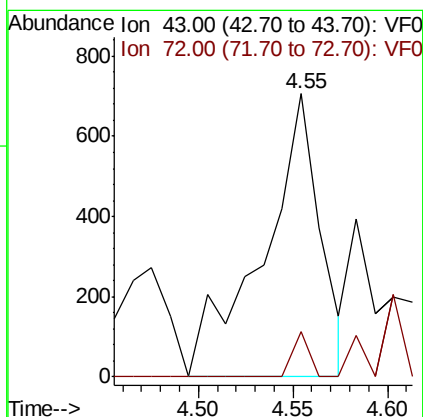
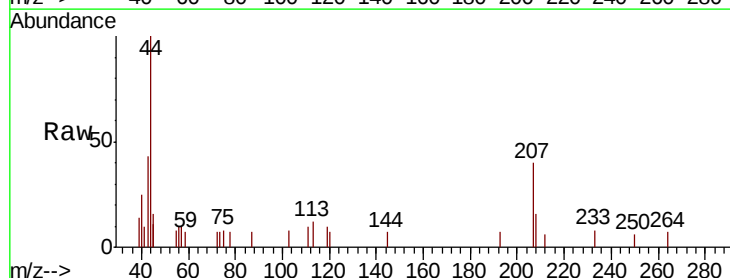
Instrument :
MSVOA_F
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P026-SS013-0002-01RE

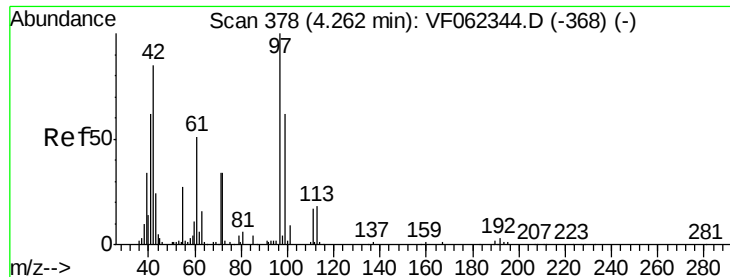
Tot Ion: 84 Resp: 3138
Ion Ratio Lower Upper
84 100
49 52.2 117.5 176.3#
51 12.2 37.0 55.4#
86 39.8 49.3 73.9#



#25
2-Butanone
Concen: 2.771 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Tgt Ion: 43 Resp: 1491
Ion Ratio Lower Upper
43 100
72 16.1 14.2 21.4





#29

Tetrahydrofuran

Concen: 1.561 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0002-01RE

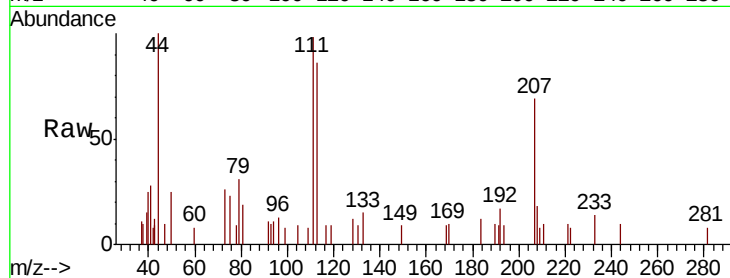
Tot Ion: 42 Resp: 386

Ion Ratio Lower Upper

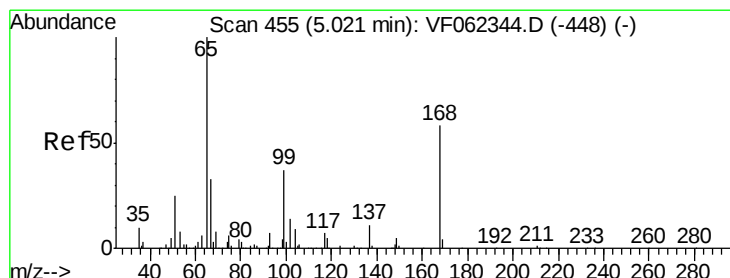
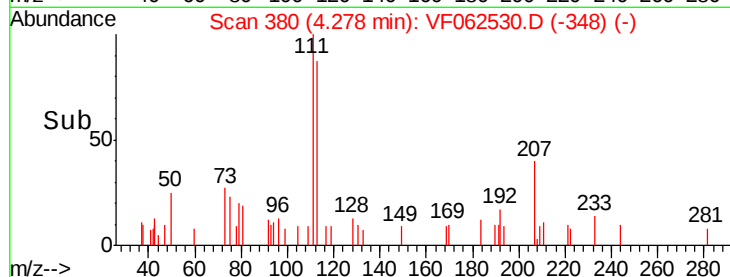
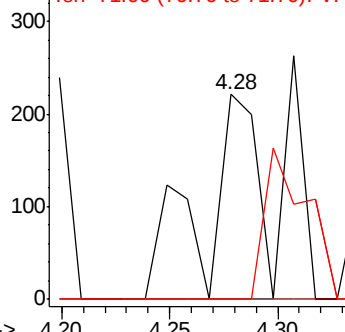
42 100

72 0.0 31.4 47.0#

71 57.5 31.7 47.5#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 55.386 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.04 min

Lab File: VF062530.D

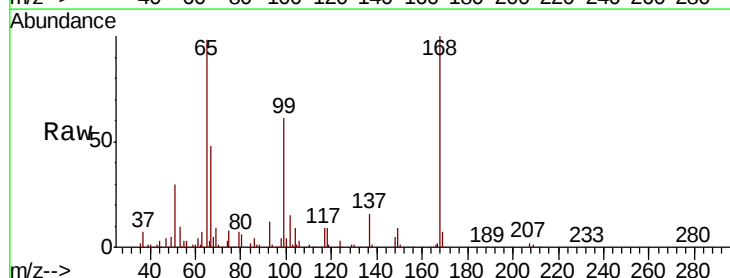
Acq: 13 May 2019 5:16

Tgt Ion: 65 Resp: 117250

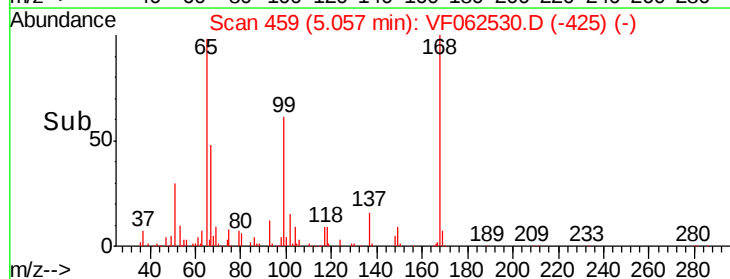
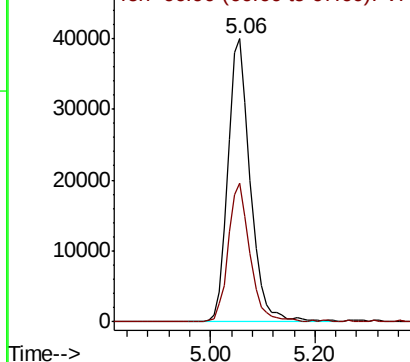
Ion Ratio Lower Upper

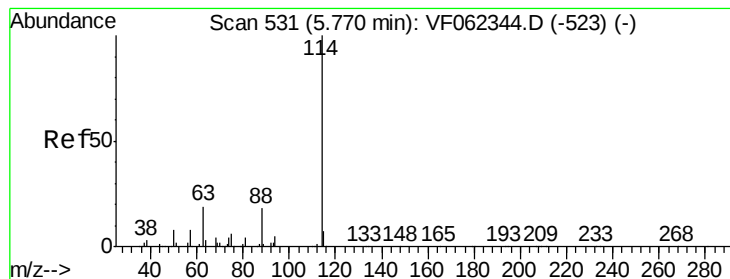
65 100

67 47.4 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0
Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.03 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0002-01RE

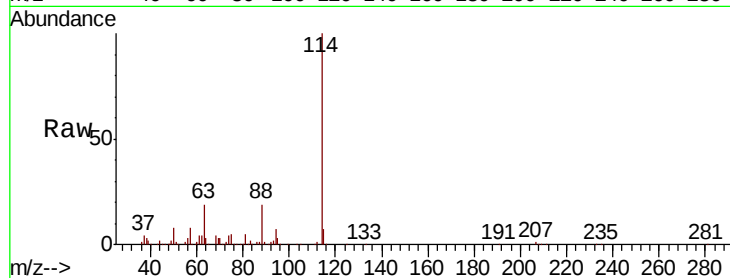
Tot Ion:114 Resp: 283584

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.4

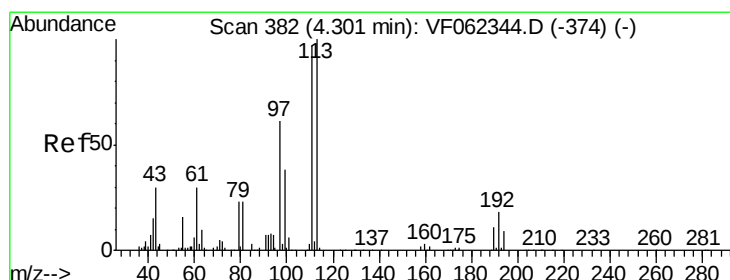
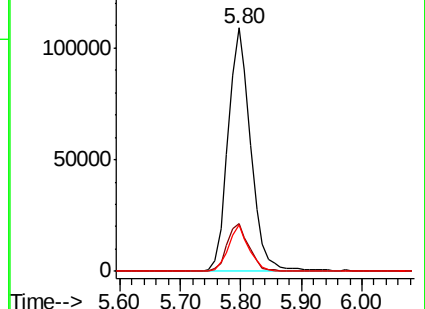
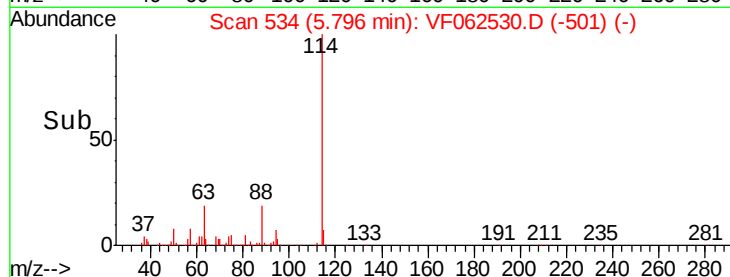
88 19.3 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 62.963 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

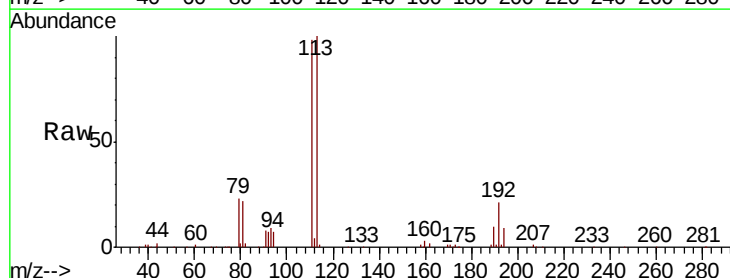
Tgt Ion:113 Resp: 142250

Ion Ratio Lower Upper

113 100

111 99.4 79.4 119.0

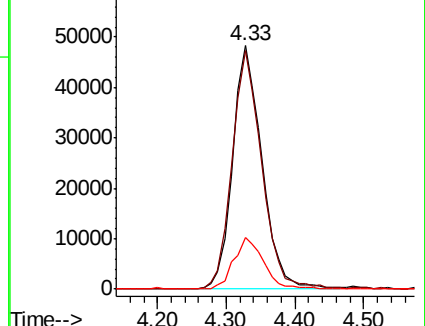
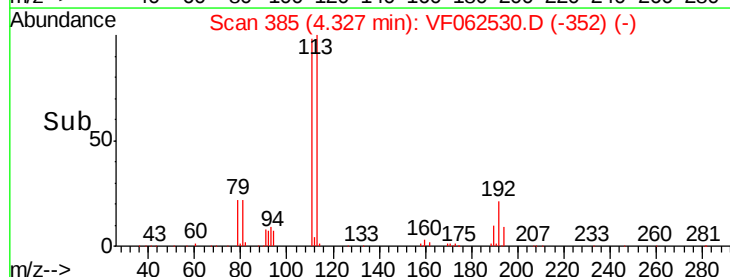
192 21.6 16.0 24.0

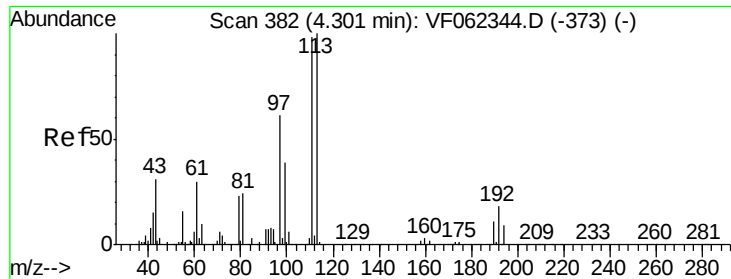


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

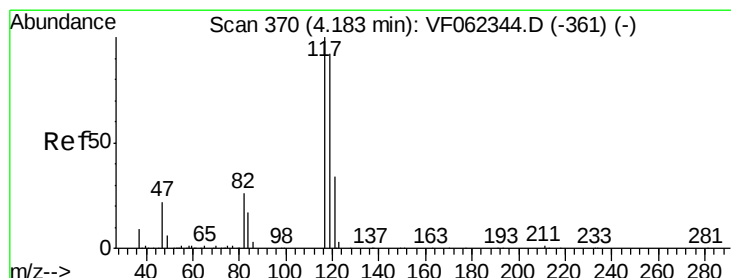
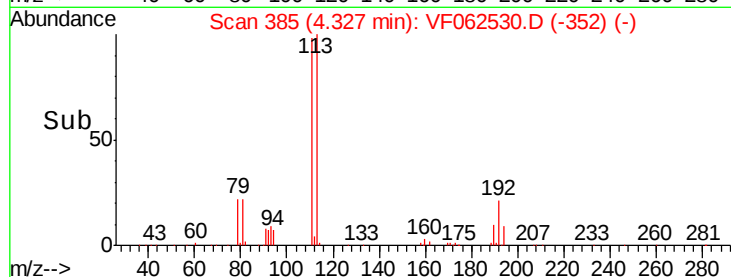
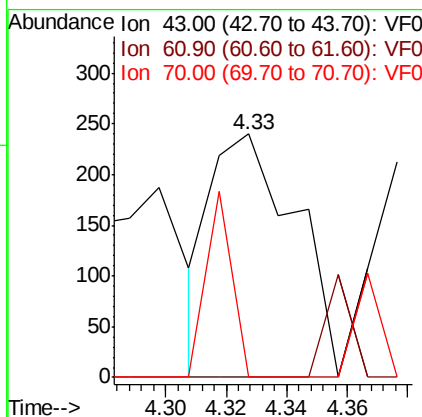
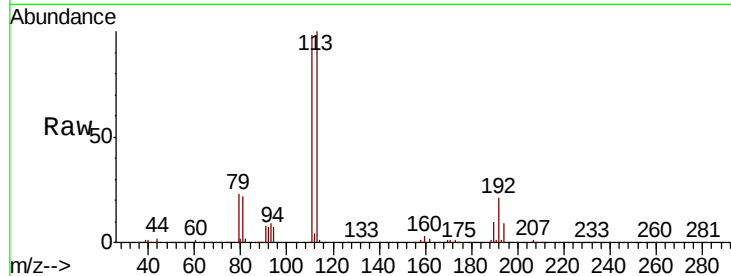




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

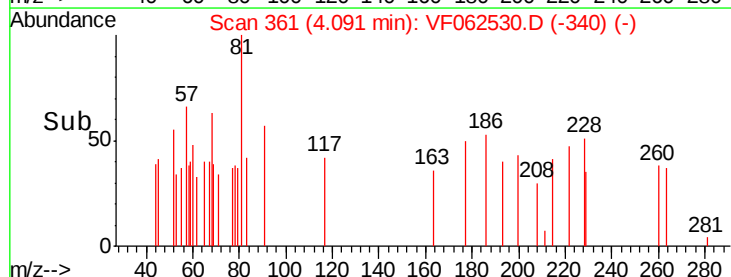
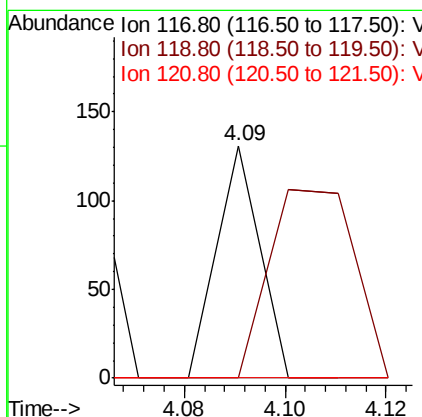
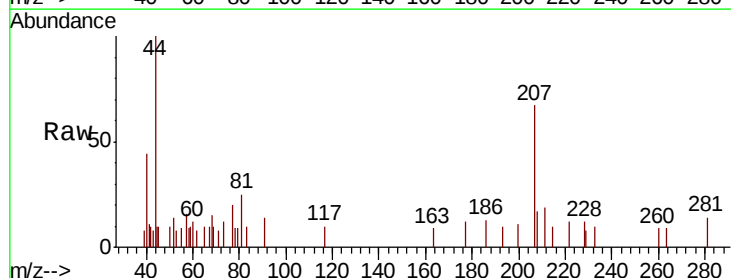
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0002-01RE

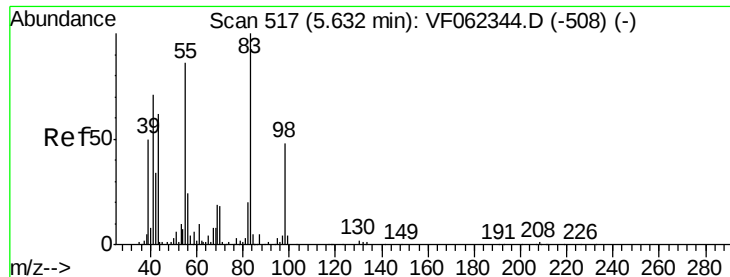
Tot Ion: 43 Resp: 464
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 23.5 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.09 min Scan# 361
Delta R.T. -0.09 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Tgt Ion: 117 Resp: 77
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#





#39

Methylcyclohexane

Concen: 2.293 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0002-01RE

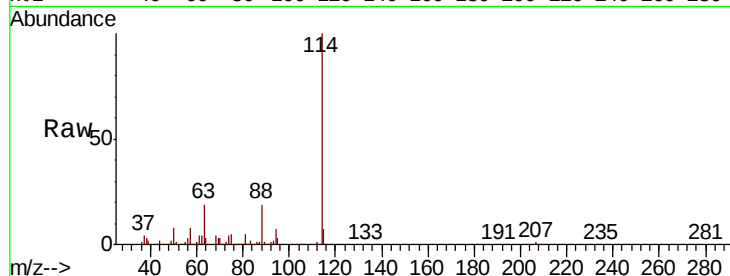
Tot Ion: 83 Resp: 5601

Ion Ratio Lower Upper

83 100

55 36.5 69.0 103.6#

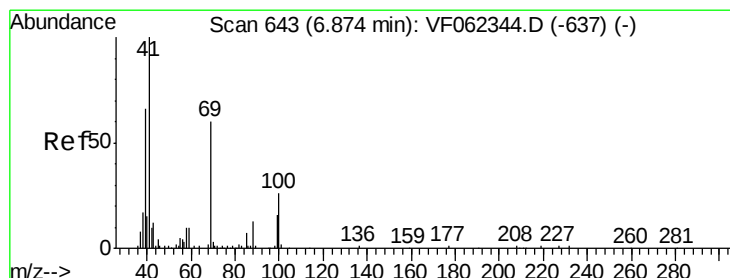
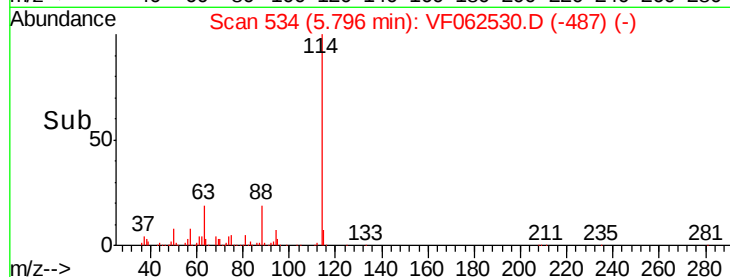
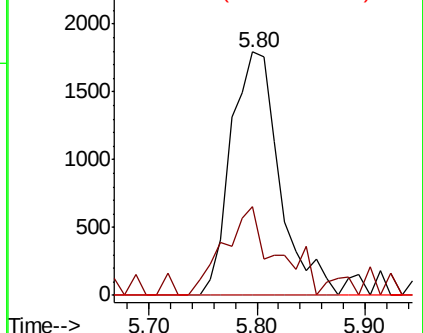
98 0.0 38.6 58.0#



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



#48

Methyl methacrylate

Concen: 1.211 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.04 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

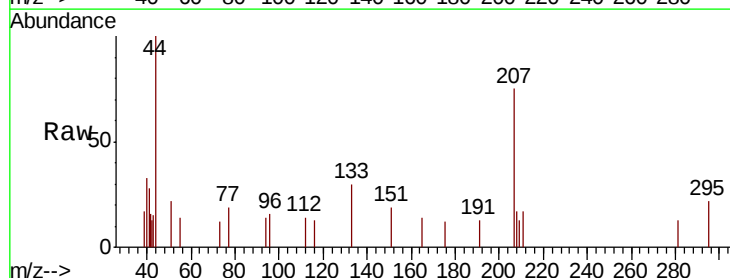
Tgt Ion: 41 Resp: 948

Ion Ratio Lower Upper

41 100

69 0.0 48.6 72.8#

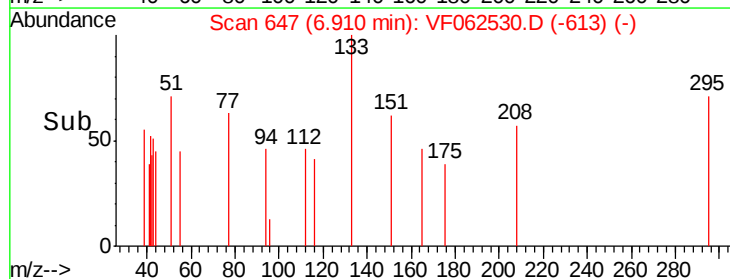
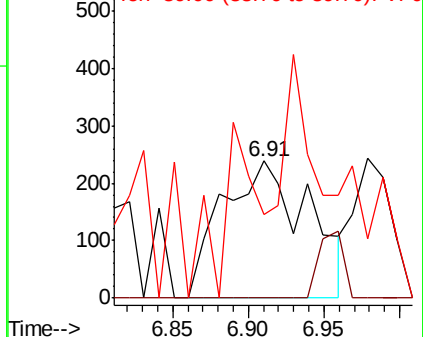
39 114.7 56.1 84.1#

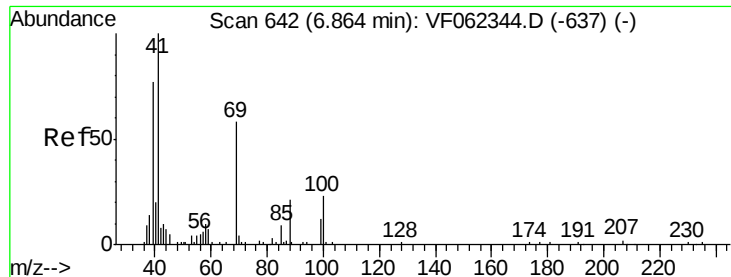


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

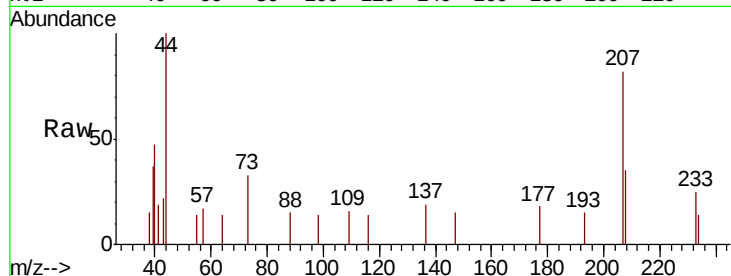




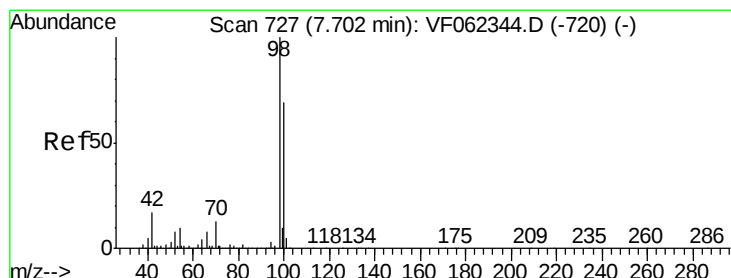
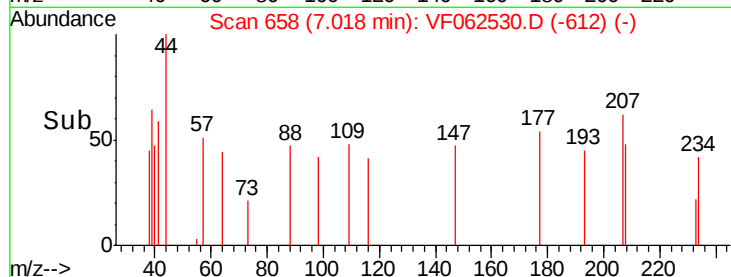
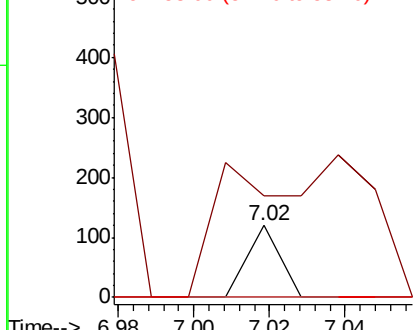
#49
1,4-Dioxane
Concen: Below Cal
RT: 7.02 min Scan# 658
Delta R.T. 0.15 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0002-01RE

Tot Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 816.9 55.6 83.4#
58 0.0 52.8 79.2#

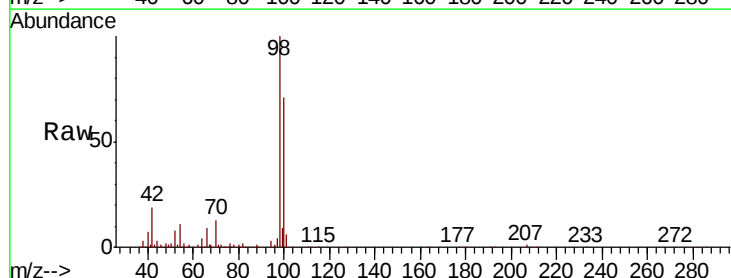


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

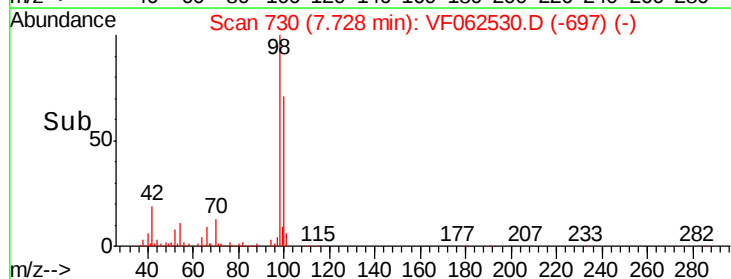
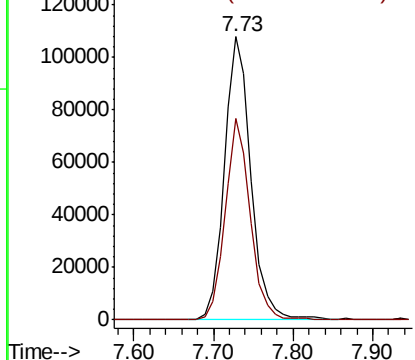


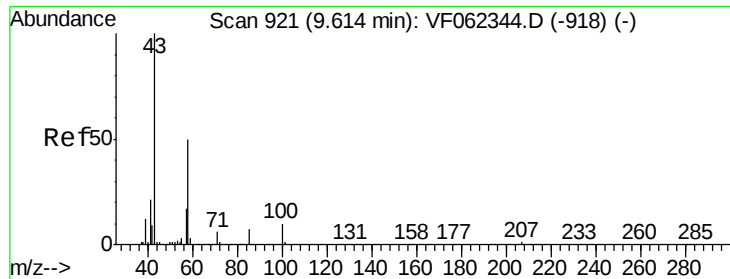
#50
Toluene-d8
Concen: 46.069 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Tgt Ion: 98 Resp: 251944
Ion Ratio Lower Upper
98 100
100 67.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

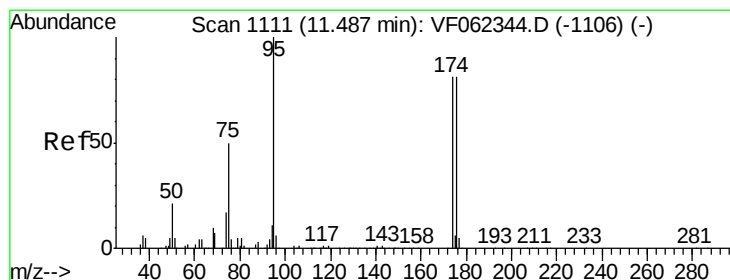
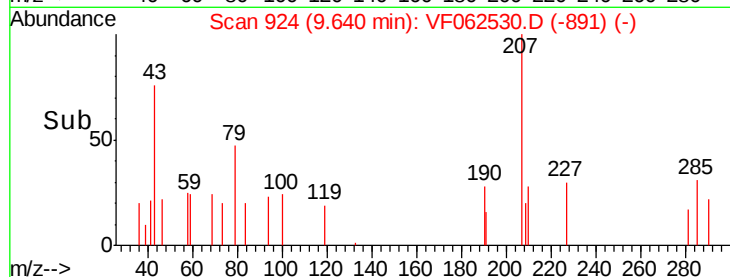
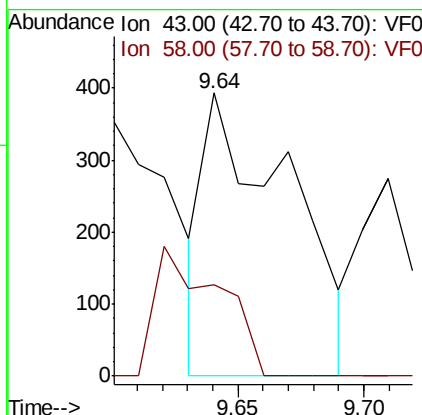
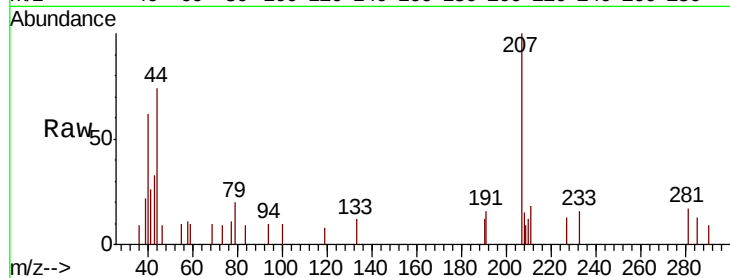




#59
2-Hexanone
Concen: 1.600 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

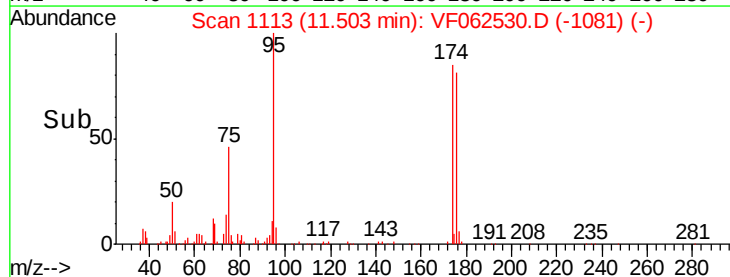
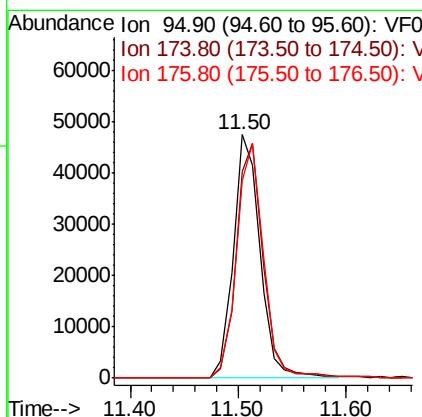
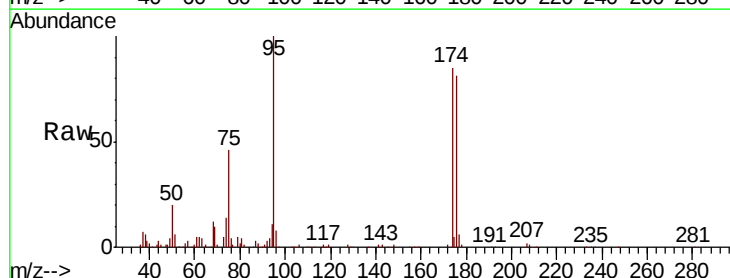
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0002-01RE

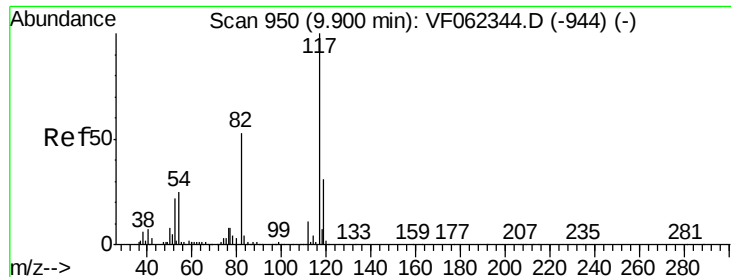
Tot Ion: 43 Resp: 929
Ion Ratio Lower Upper
43 100
58 34.3 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 33.086 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Tgt Ion: 95 Resp: 81634
Ion Ratio Lower Upper
95 100
174 98.1 0.0 191.8
176 96.6 0.0 193.2

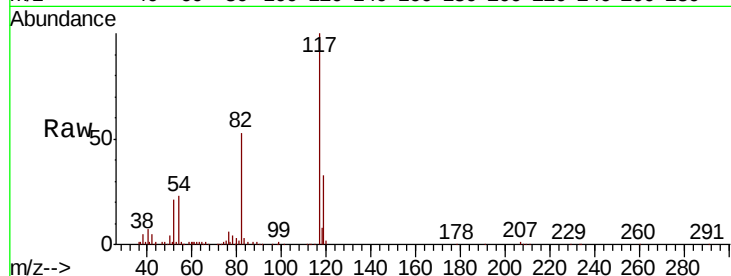




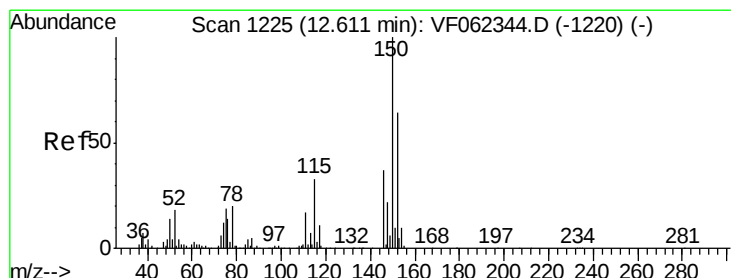
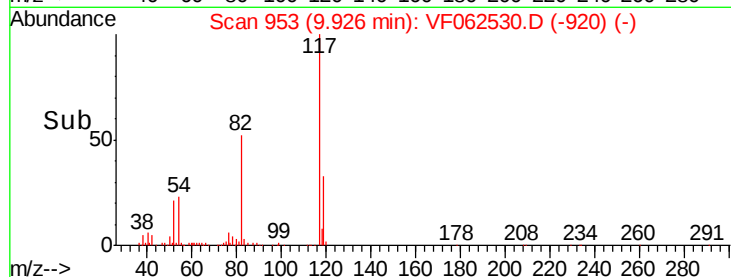
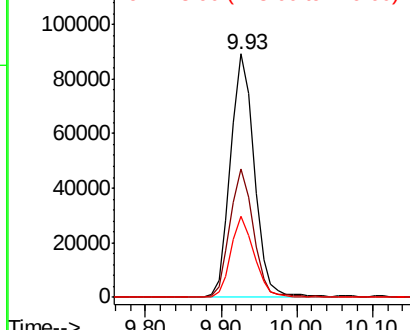
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0002-01RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.2
119	33.2	25.0	37.4

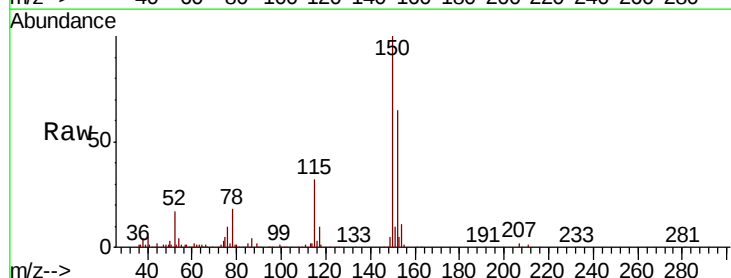


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

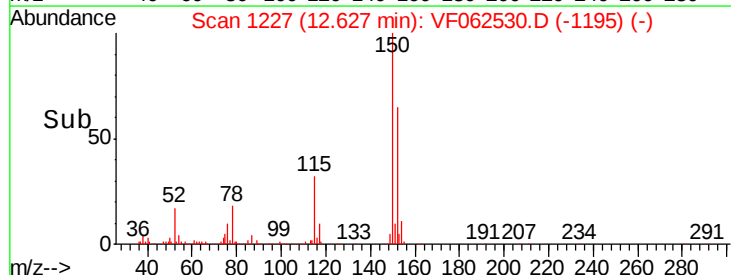
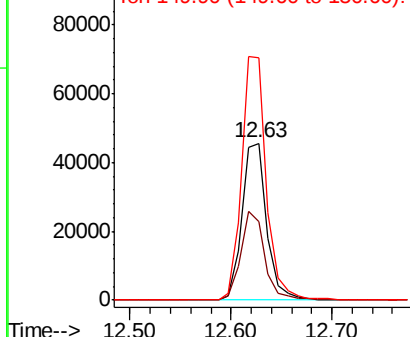


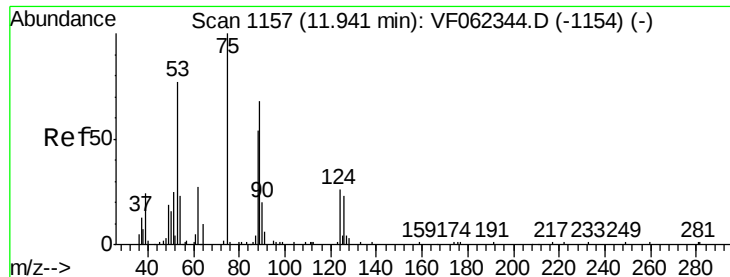
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. 0.02 min
Lab File: VF062530.D
Acq: 13 May 2019 5:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	26.4	79.2
150	155.5	0.0	335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.069 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062530.D

Acq: 13 May 2019 5:16

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0002-01RE

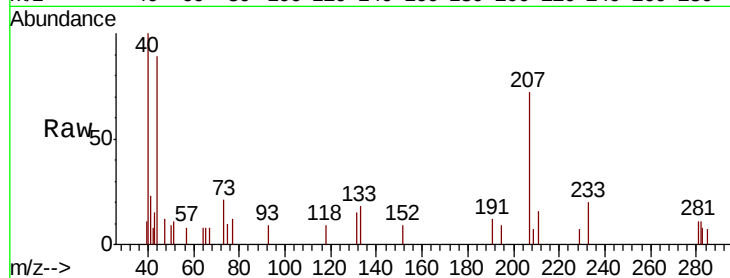
Tot Ion: 75 Resp: 221

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 38.9 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

