

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
 Data File : VF062412.D
 Acq On : 9 May 2019 22:54
 Operator : FY/SY
 Sample : K2645-09
 Misc : 6.33g/5mL/MSVOA_F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-050719-E

Quant Time: May 10 01:56:24 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	5.05	168	248632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	336741	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	195152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	106272	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	180610	76.87	ug/l	0.01
Spiked Amount 50.000			Recovery	=	153.74%	
35) Dibromofluoromethane	4.30	113	198214	73.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	147.76%	
50) Toluene-d8	7.71	98	157308	24.22	ug/l	0.01
Spiked Amount 50.000			Recovery	=	48.44%	
62) 4-Bromofluorobenzene	11.49	95	116650	39.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.62%	

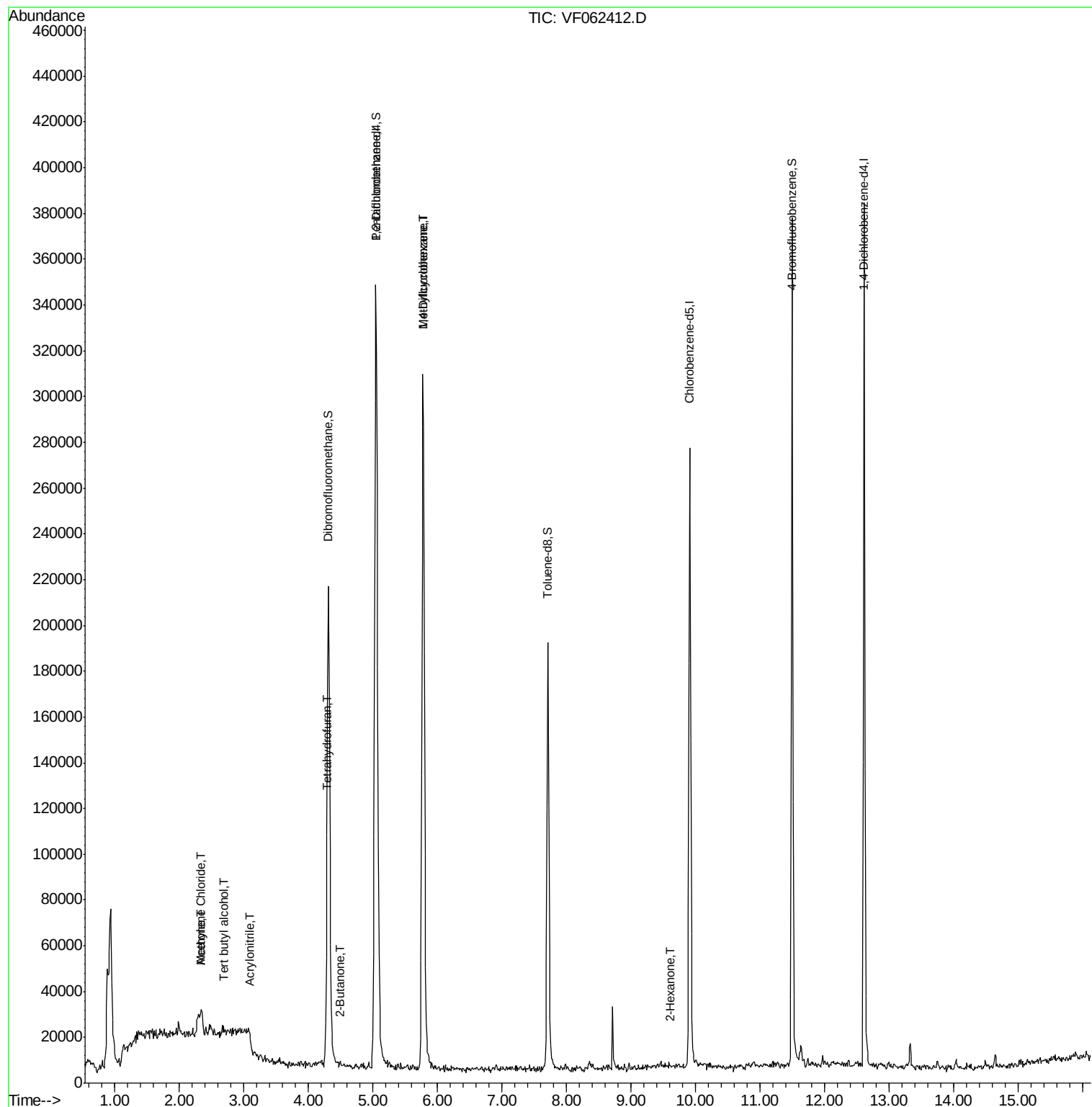
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	676	Below Cal	#	25
11) Tert butyl alcohol	2.70	59	1185	8.923	ug/l #	70
13) Acrolein	2.08	56	617	Below Cal	#	79
15) Acrylonitrile	3.09	53	625	2.485	ug/l #	82
16) Acetone	2.34	43	3623	7.622	ug/l #	81
18) Methyl Acetate	2.46	43	1432	Below Cal	#	44
20) Methylene Chloride	2.34	84	9393	5.462	ug/l	96
25) 2-Butanone	4.50	43	1719	2.879	ug/l #	60
29) Tetrahydrofuran	4.27	42	1057	3.851	ug/l #	36
37) Ethyl Acetate	4.32	43	740	Below Cal	#	73
38) Carbon Tetrachloride	4.21	117	59	Below Cal	#	35
39) Methylcyclohexane	5.76	83	5316	1.832	ug/l #	33
49) 1,4-Dioxane	6.92	88	92	Below Cal	#	1
59) 2-Hexanone	9.62	43	1296	1.880	ug/l	73

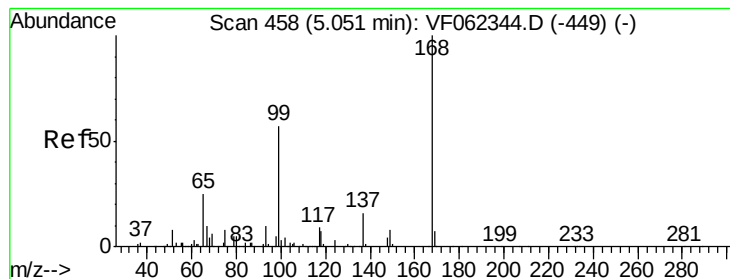
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF050919\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

Instrument :

MSVOA_F

ClientSampleId :

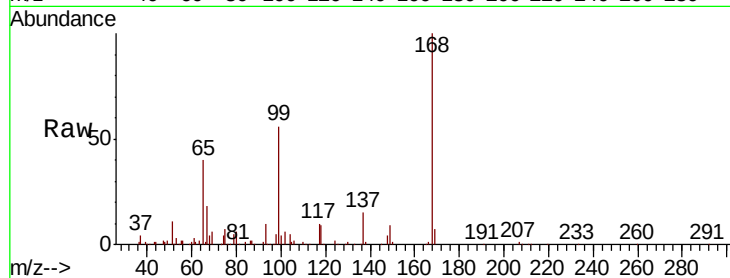
PL-02-050719-E

Tgt Ion:168 Resp: 248632

Ion Ratio Lower Upper

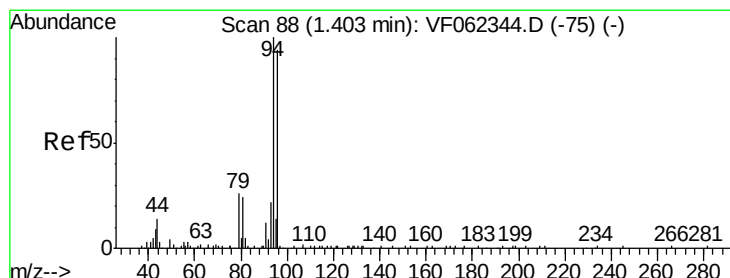
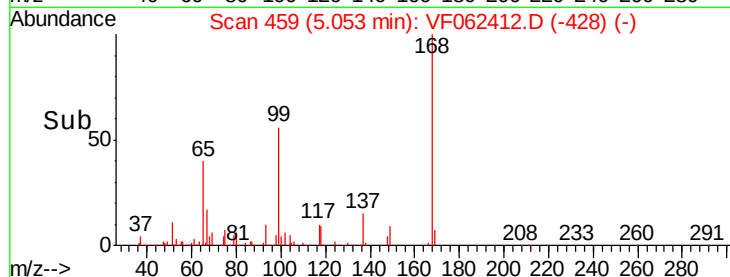
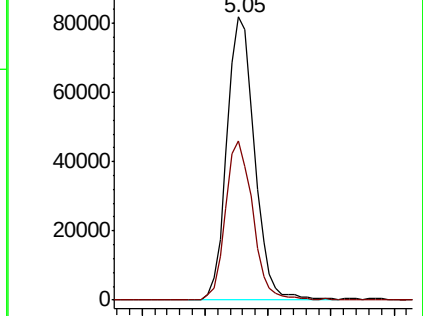
168 100

99 56.1 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062412.D

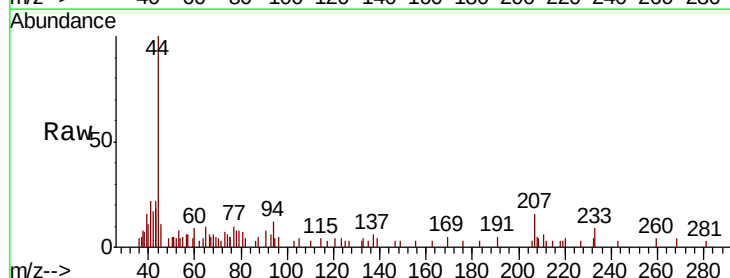
Acq: 9 May 2019 22:54

Tgt Ion: 94 Resp: 676

Ion Ratio Lower Upper

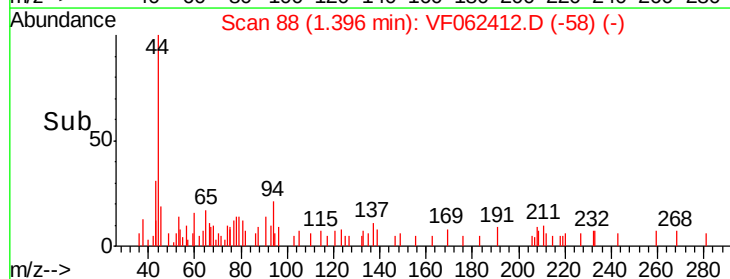
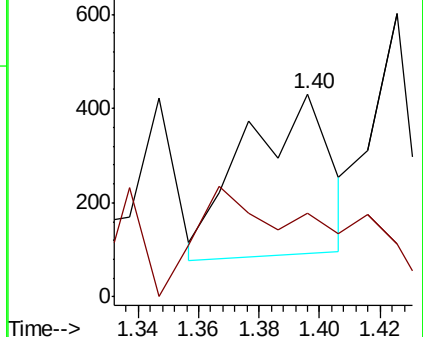
94 100

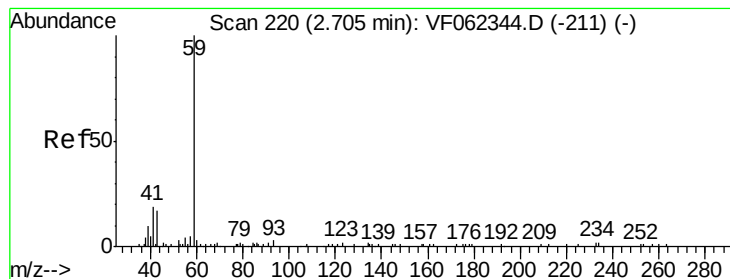
96 21.5 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



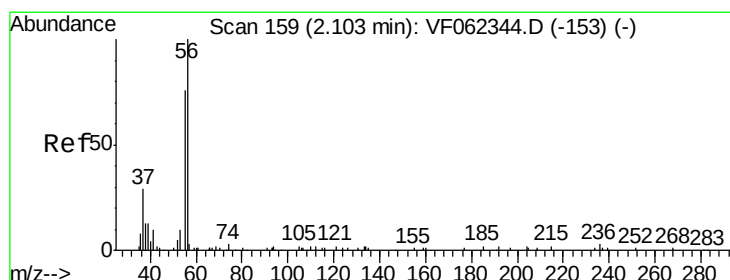
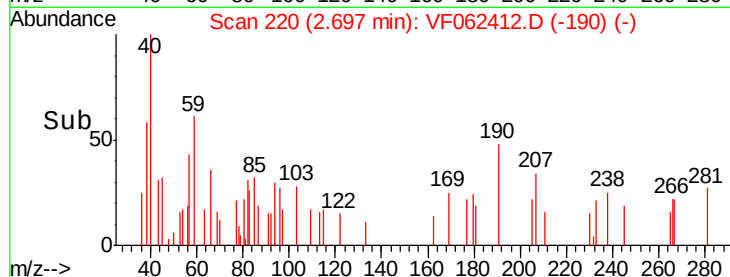
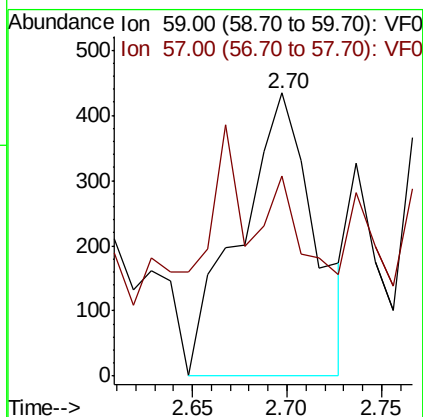
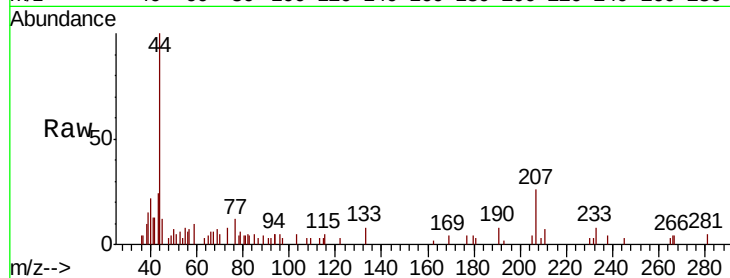


#11

Tert butyl alcohol
 Concen: 8.923 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

Instrument :
 MSVOA_F
 ClientSampleId :
 PL-02-050719-E

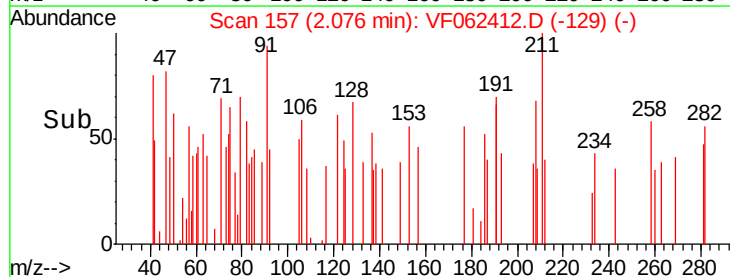
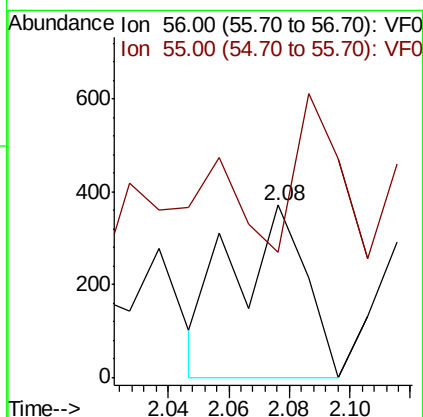
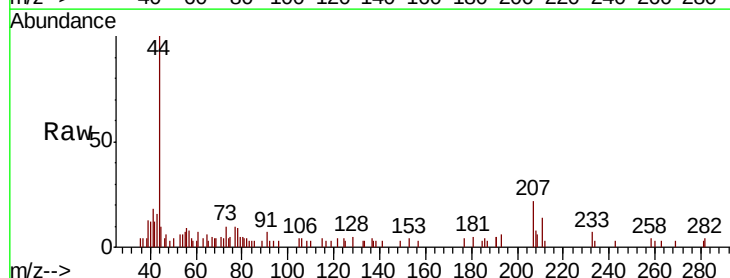
Tgt Ion: 59 Resp: 1185
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

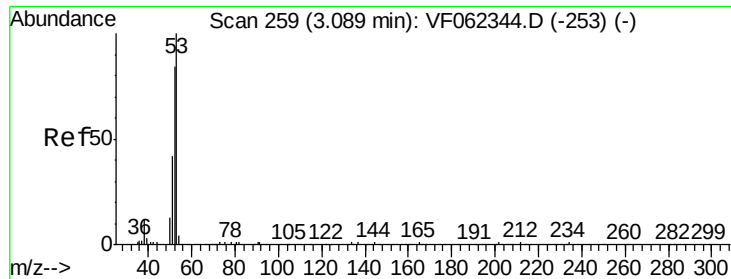


#13

Acrolein
 Concen: Below Cal
 RT: 2.08 min Scan# 157
 Delta R.T. -0.03 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

Tgt Ion: 56 Resp: 617
 Ion Ratio Lower Upper
 56 100
 55 55.8 58.4 87.6#





#15

Acrylonitrile

Concen: 2.485 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-E

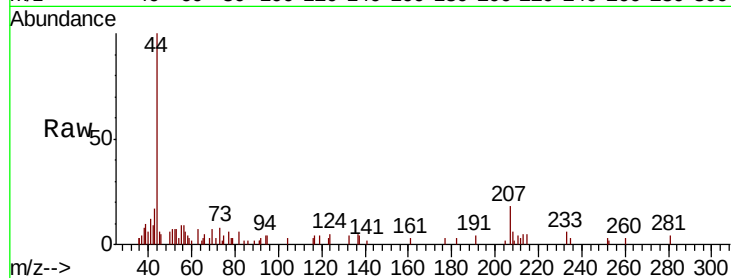
Tgt Ion: 53 Resp: 625

Ion Ratio Lower Upper

53 100

52 119.8 77.2 115.8#

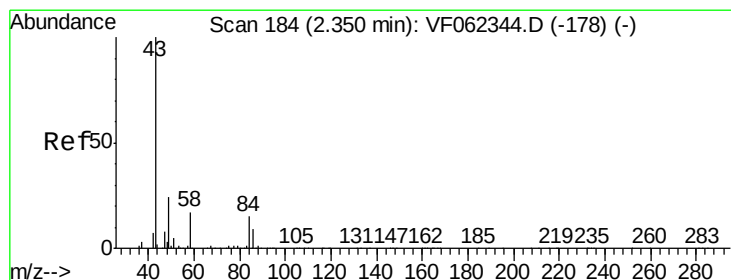
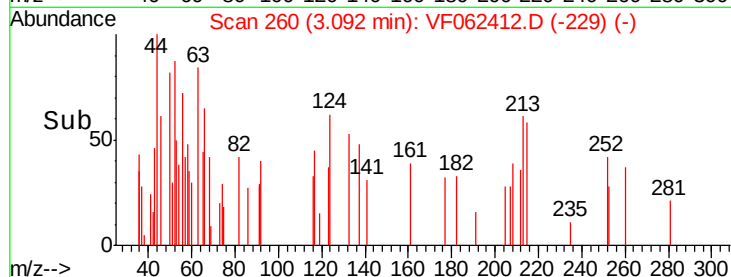
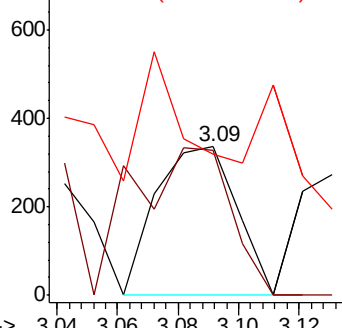
51 46.2 40.6 61.0



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 7.622 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062412.D

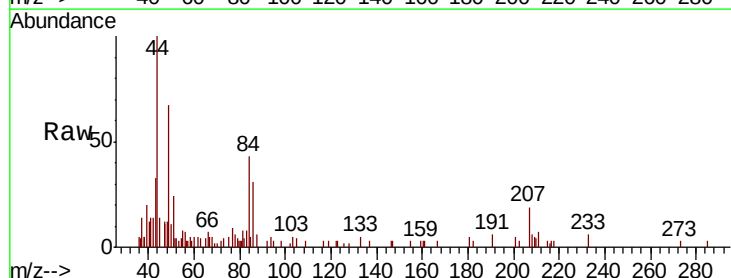
Acq: 9 May 2019 22:54

Tgt Ion: 43 Resp: 3623

Ion Ratio Lower Upper

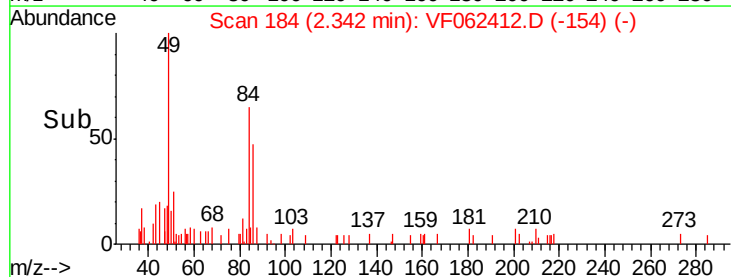
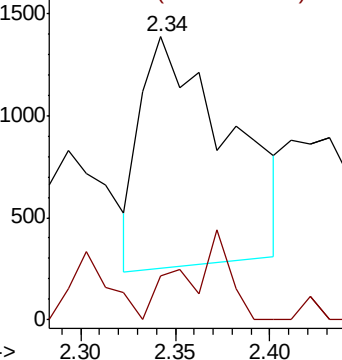
43 100

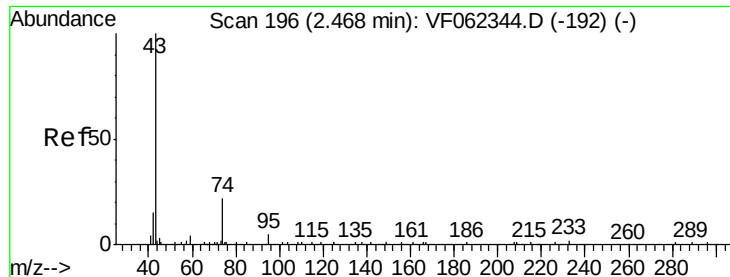
58 24.6 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

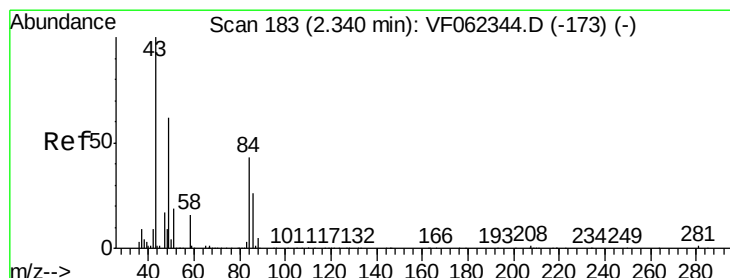
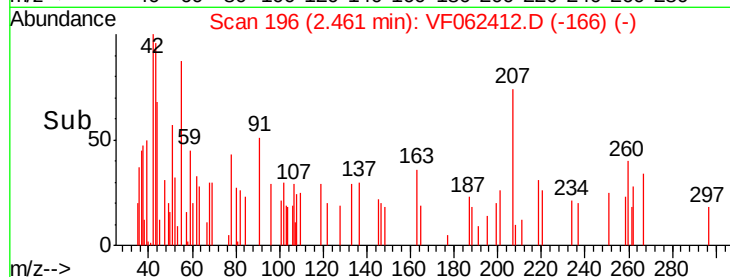
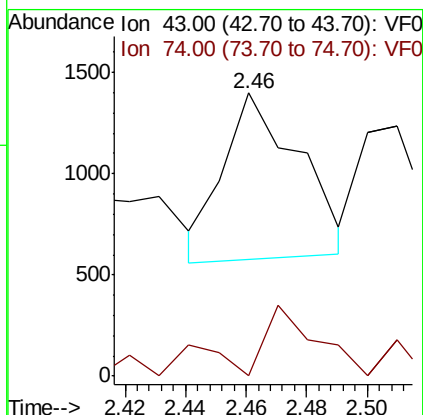
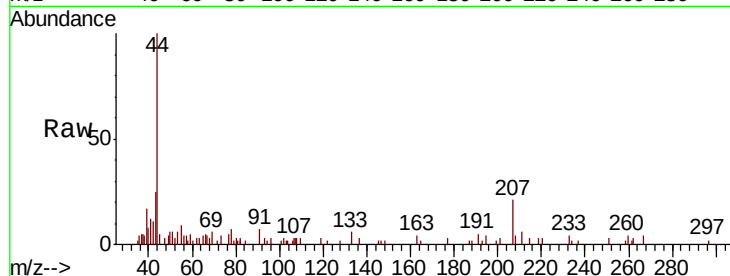




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

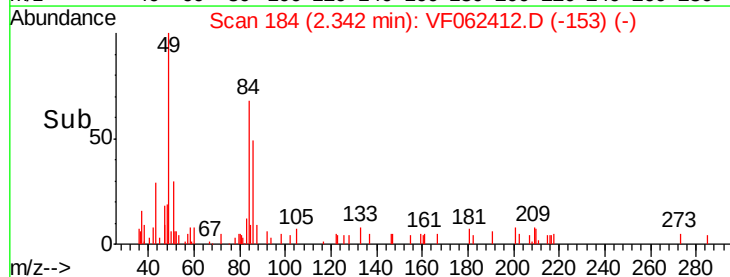
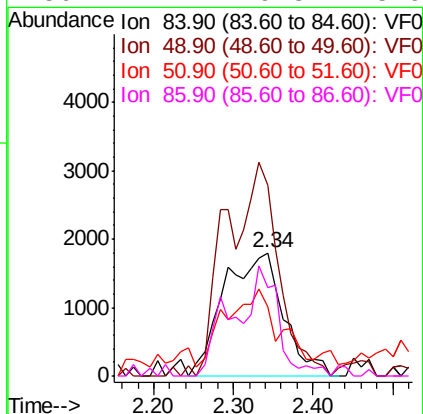
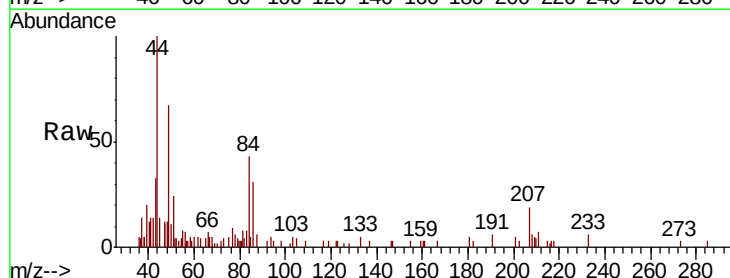
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-E

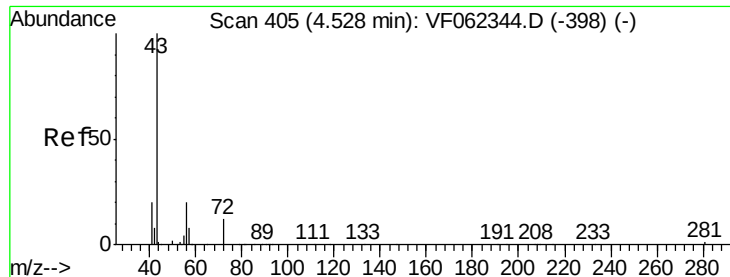
Tgt Ion: 43 Resp: 1432
Ion Ratio Lower Upper
43 100
74 43.9 15.0 22.4#



#20
Methylene Chloride
Concen: 5.462 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

Tgt Ion: 84 Resp: 9393
Ion Ratio Lower Upper
84 100
49 148.3 117.5 176.3
51 46.7 37.0 55.4
86 72.2 49.3 73.9





#25

2-Butanone

Concen: 2.879 ug/l

RT: 4.50 min Scan# 403

Delta R.T. -0.03 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

Instrument :

MSVOA_F

ClientSampleId :

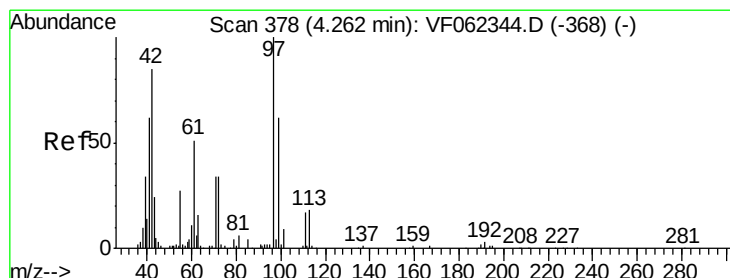
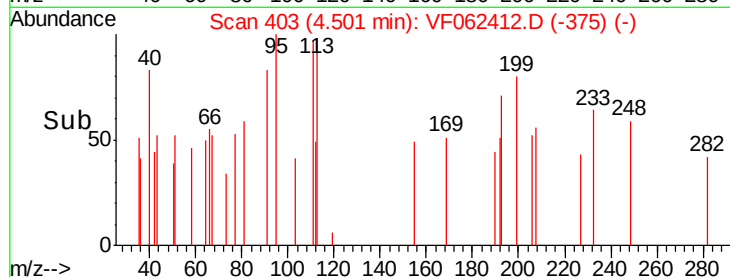
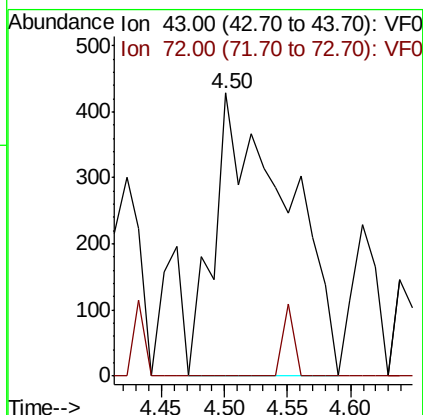
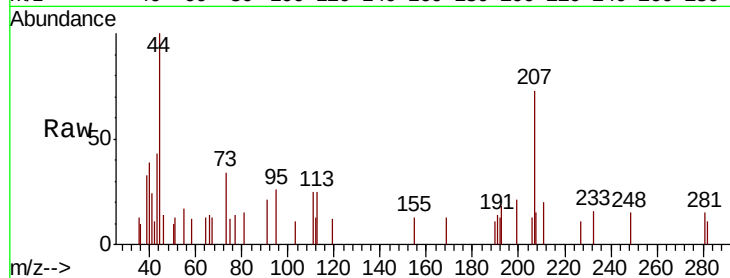
PL-02-050719-E

Tgt Ion: 43 Resp: 1719

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: 3.851 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

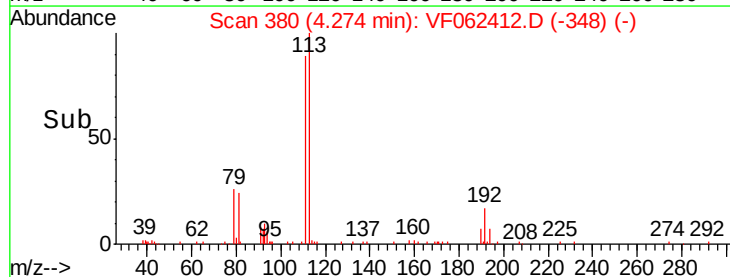
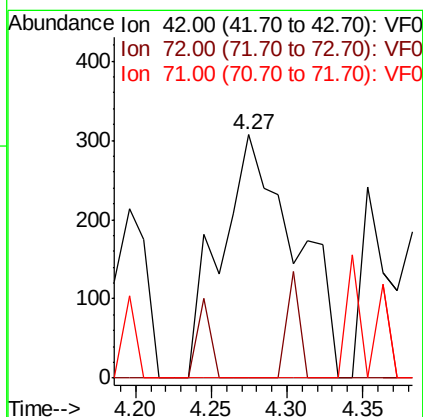
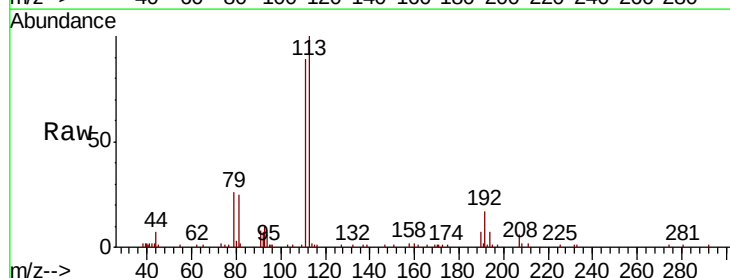
Tgt Ion: 42 Resp: 1057

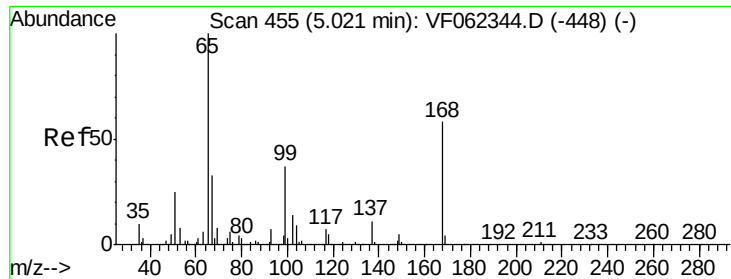
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 31.7 47.5#

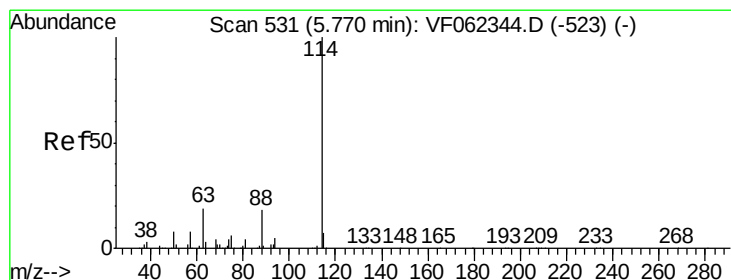
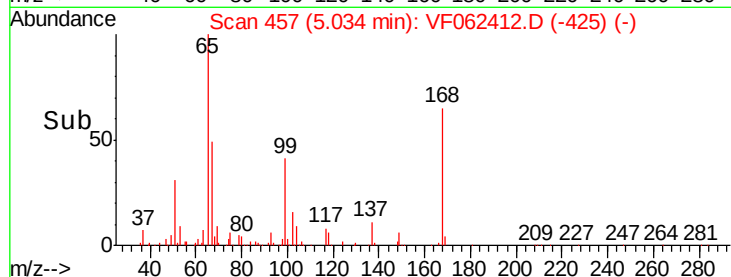
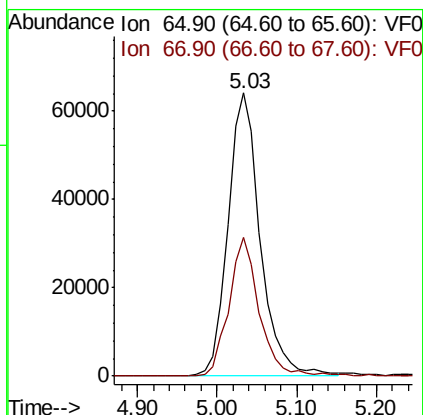
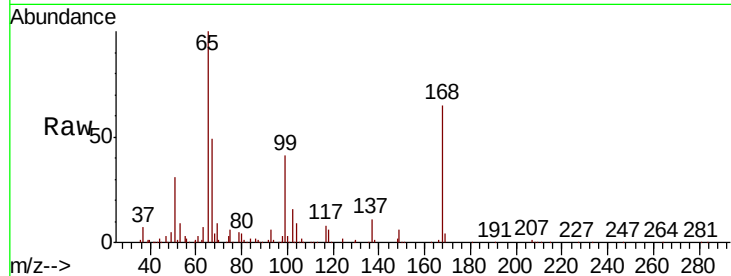




#33
 1,2-Dichloroethane-d4
 Concen: 76.866 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.01 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

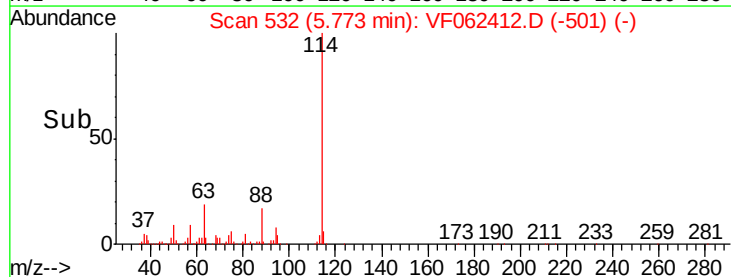
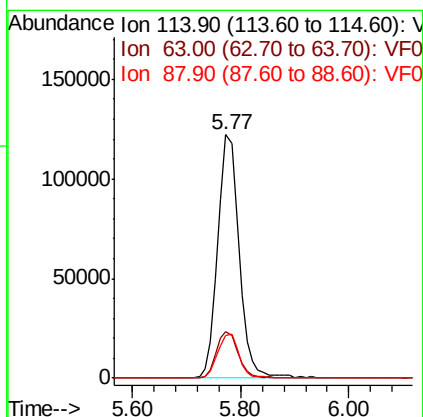
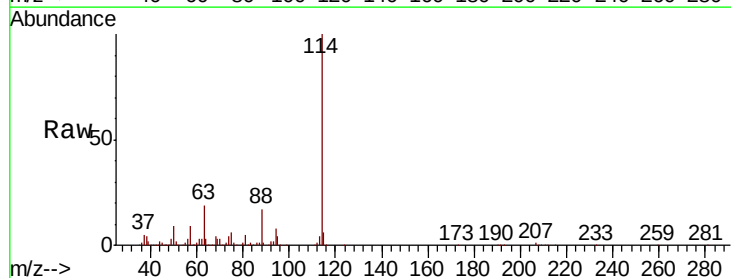
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 PL-02-050719-E

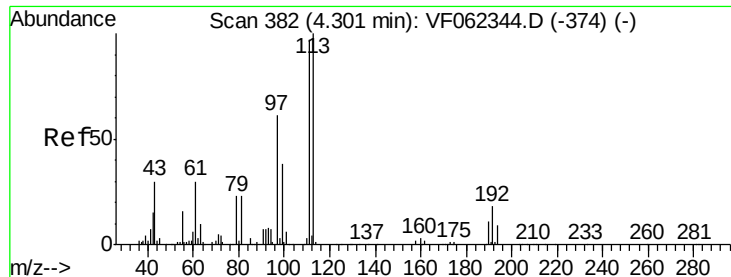
Tgt Ion: 65 Resp: 180610
 Ion Ratio Lower Upper
 65 100
 67 46.9 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

Tgt Ion: 114 Resp: 336741
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 37.4
 88 17.4 0.0 36.4

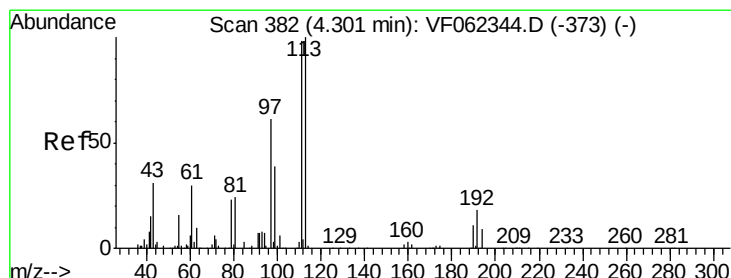
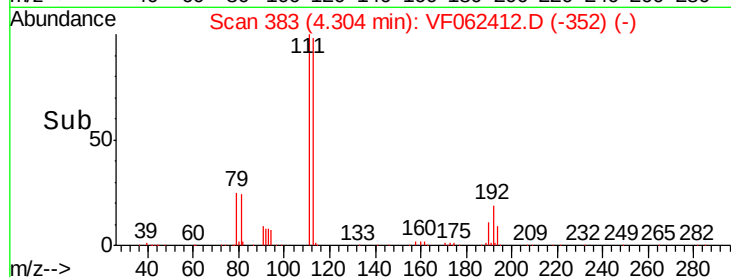
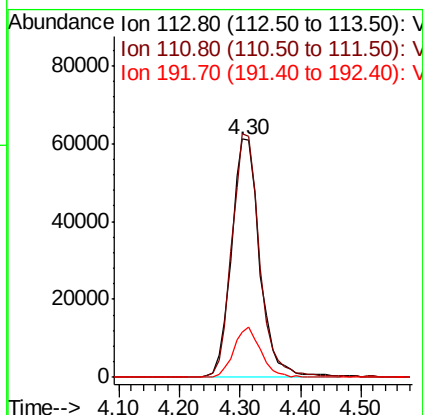
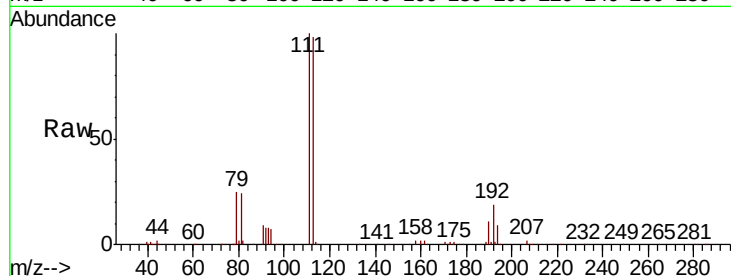




#35
 Dibromofluoromethane
 Concen: 73.884 ug/l
 RT: 4.30 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

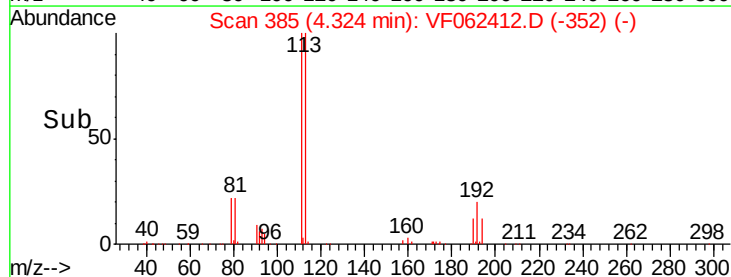
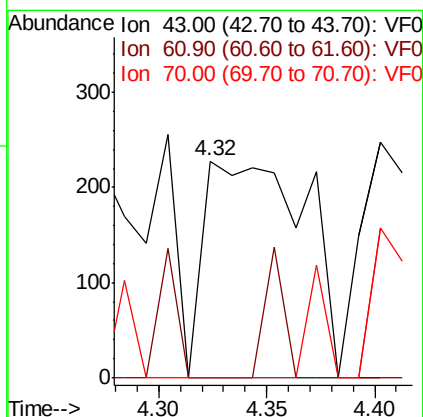
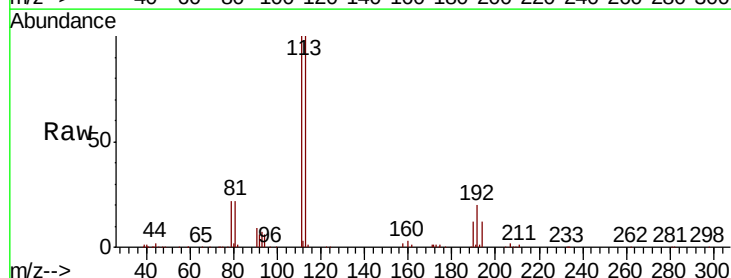
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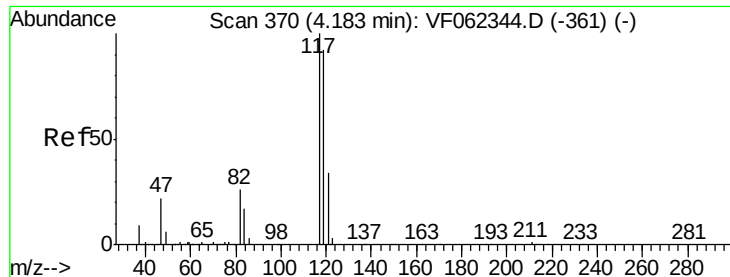
Tgt Ion: 113 Resp: 198214
 Ion Ratio Lower Upper
 113 100
 111 100.5 79.4 119.0
 192 20.1 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062412.D
 Acq: 9 May 2019 22:54

Tgt Ion: 43 Resp: 740
 Ion Ratio Lower Upper
 43 100
 61 10.8 0.0 0.0#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.21 min Scan# 373

Delta R.T. 0.02 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

Instrument :

MSVOA_F

ClientSampleId :

PL-02-050719-E

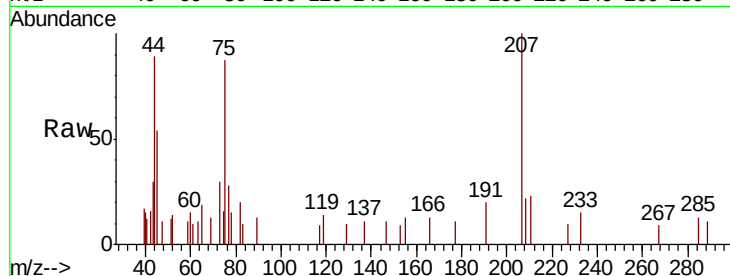
Tgt Ion:117 Resp: 59

Ion Ratio Lower Upper

117 100

119 156.0 73.4 110.2#

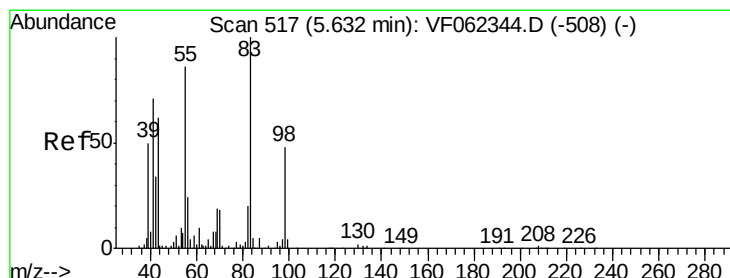
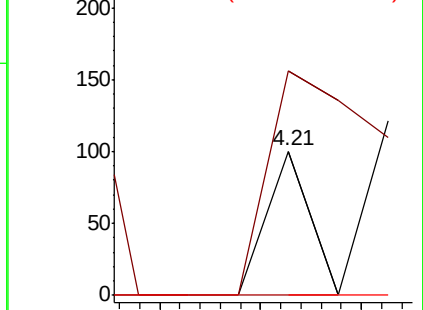
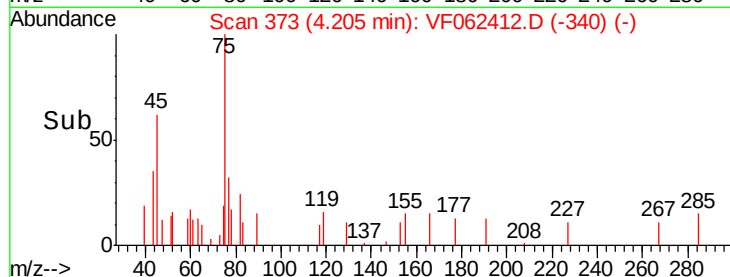
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.832 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.13 min

Lab File: VF062412.D

Acq: 9 May 2019 22:54

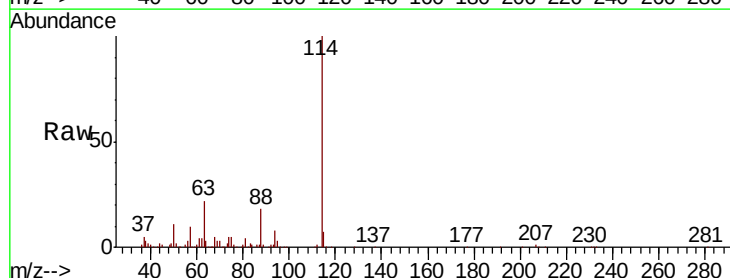
Tgt Ion: 83 Resp: 5316

Ion Ratio Lower Upper

83 100

55 27.2 69.0 103.6#

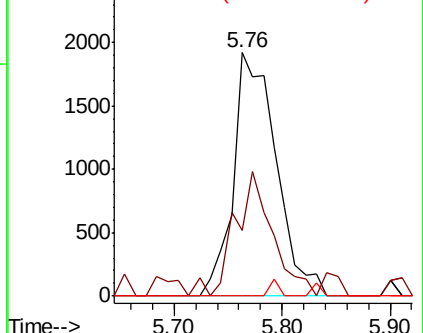
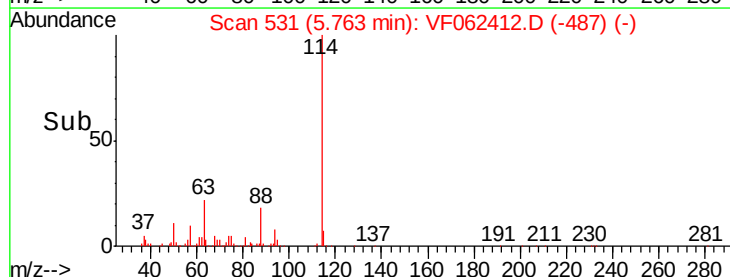
98 0.0 38.6 58.0#

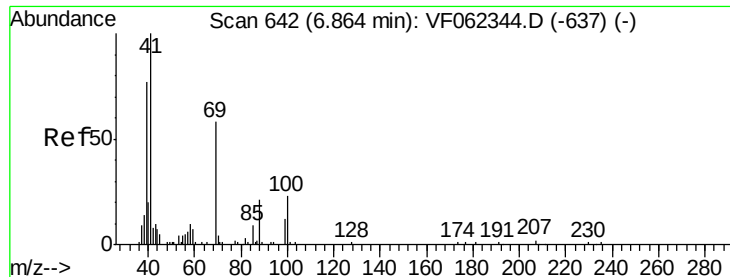


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

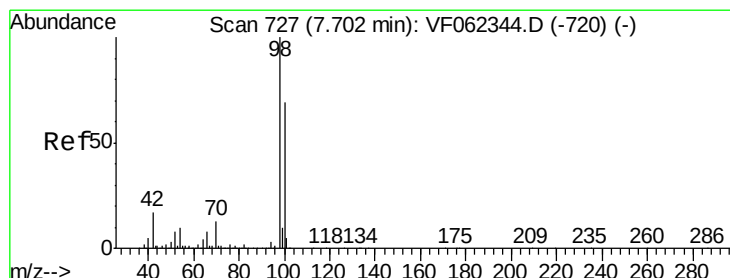
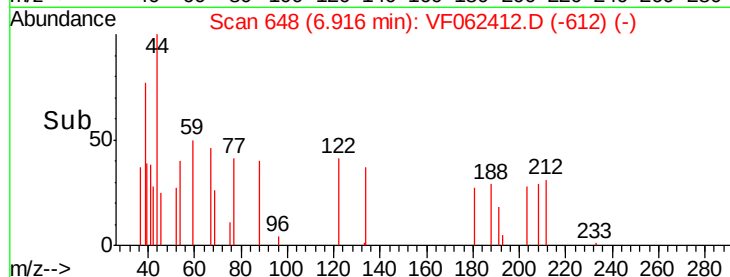
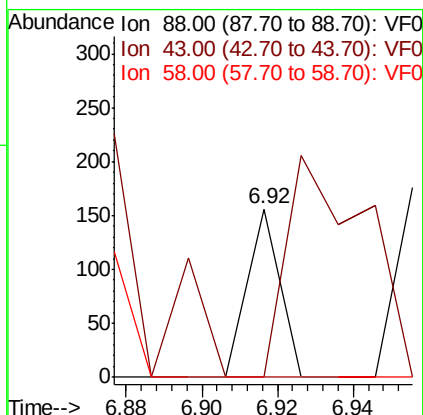
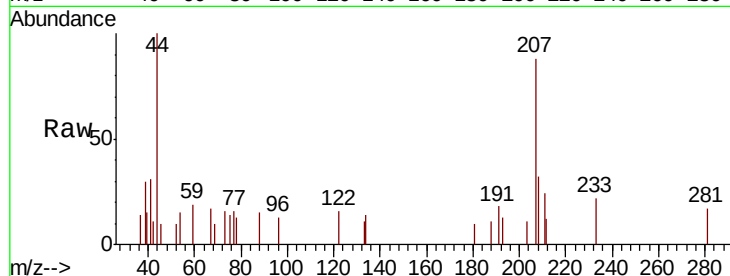




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.92 min Scan# 648
Delta R.T. 0.05 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

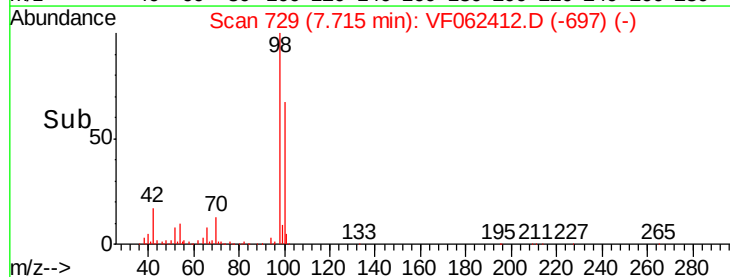
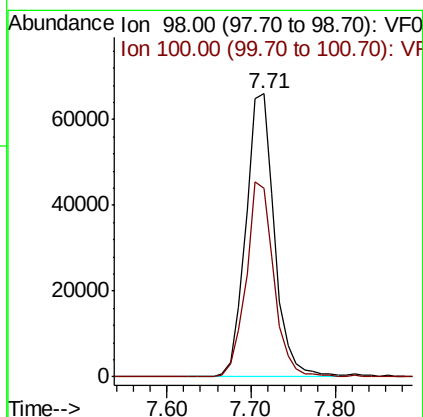
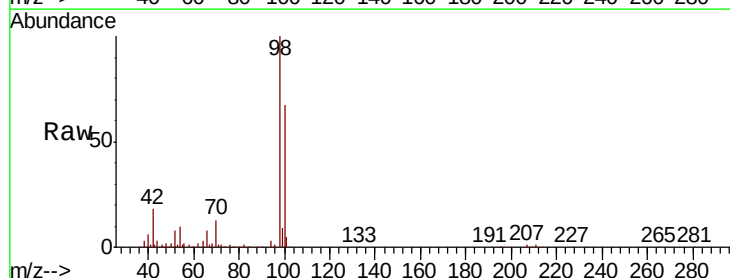
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-E

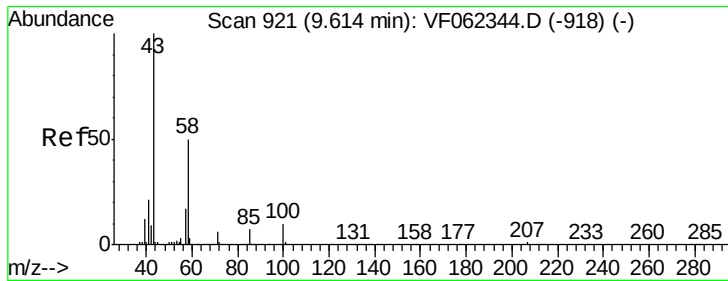
Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 326.1 55.6 83.4#
58 0.0 52.8 79.2#



#50
Toluene-d8
Concen: 24.224 ug/l
RT: 7.71 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

Tgt Ion: 98 Resp: 157308
Ion Ratio Lower Upper
98 100
100 66.8 53.3 79.9

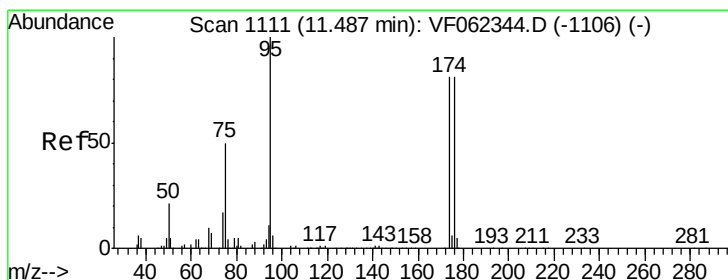
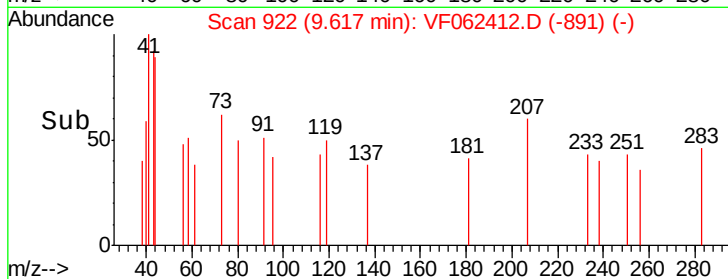
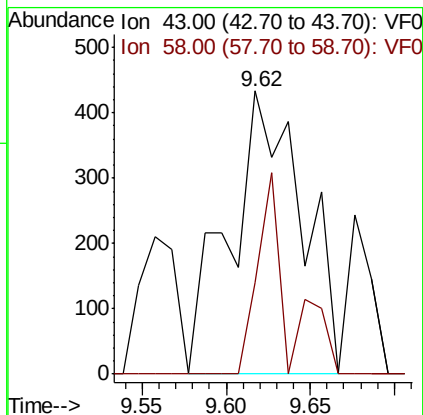
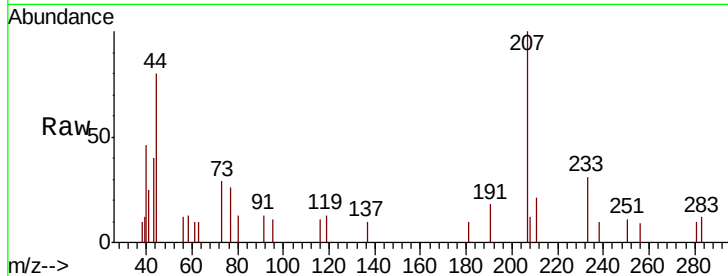




#59
2-Hexanone
Concen: 1.880 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

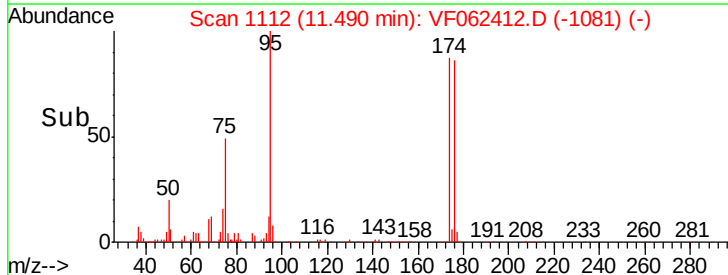
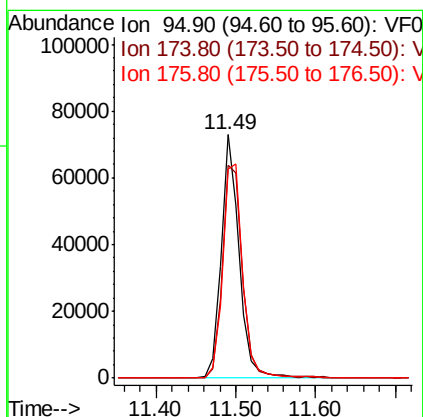
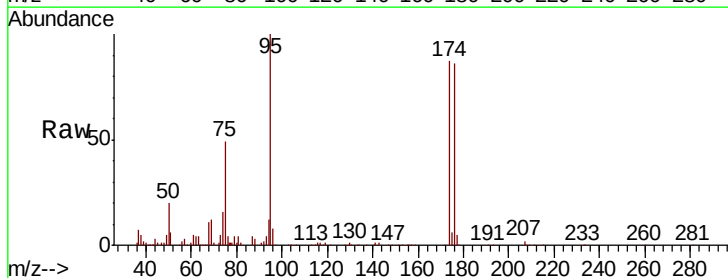
Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-E

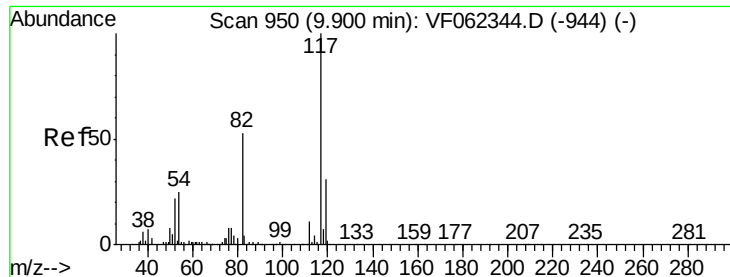
Tgt Ion: 43 Resp: 1296
Ion Ratio Lower Upper
43 100
58 30.3 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 39.814 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

Tgt Ion: 95 Resp: 116650
Ion Ratio Lower Upper
95 100
174 98.4 0.0 191.8
176 98.4 0.0 193.2

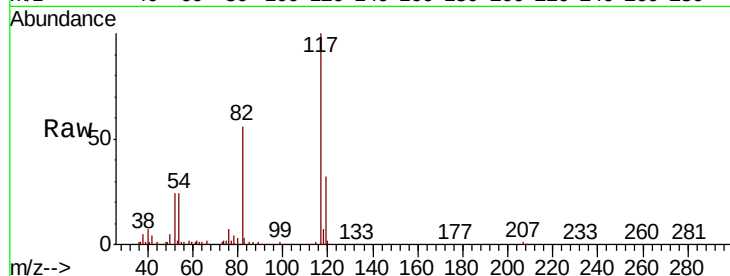




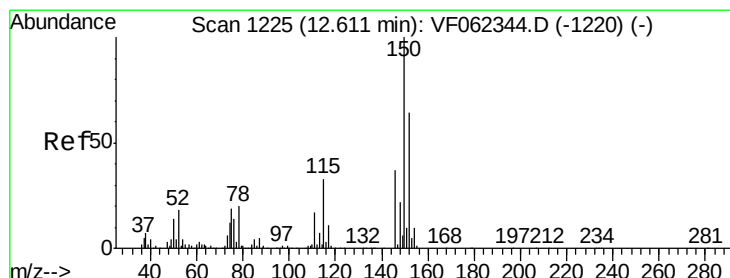
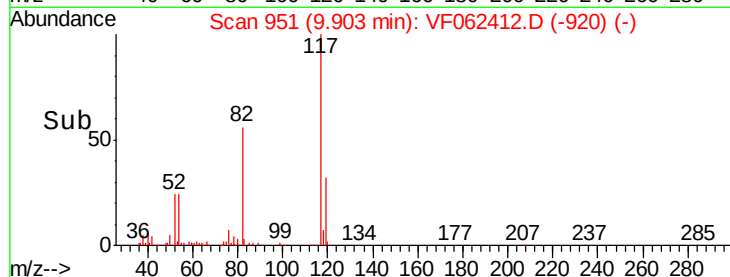
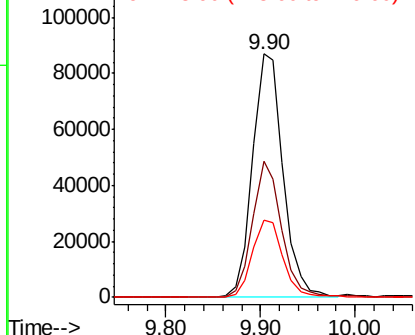
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 951
Delta R.T. 0.00 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

Instrument :
MSVOA_F
ClientSampleId :
PL-02-050719-E

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.1	42.2	63.2
119	31.9	25.0	37.4

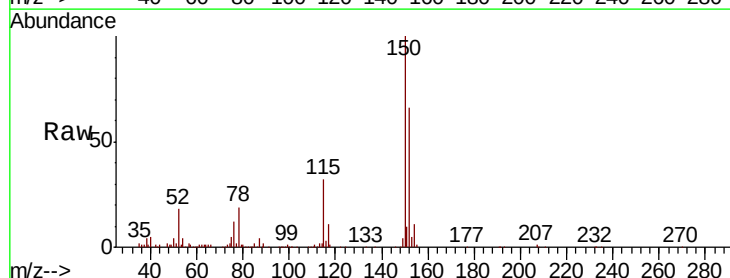


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062412.D
Acq: 9 May 2019 22:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	26.4	79.2
150	155.0	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

