

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051119\
 Data File : VF062490.D
 Acq On : 12 May 2019 6:38
 Operator : FY/SY
 Sample : K2756-07
 Misc : 5.58g/5mL/MSVOA_F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0206-01

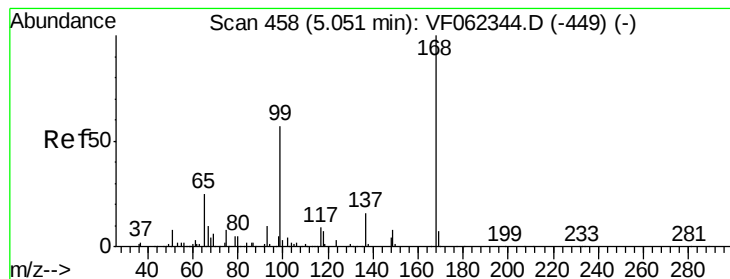
Quant Time: May 12 10:06:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	120637	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	165347	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	142098	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	66288	50.00	ug/l	0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.04	65	76926	67.47	ug/l	0.02
Spiked Amount	50.000		Recovery	=	134.94%	
35) Dibromofluoromethane	4.32	113	79594	60.42	ug/l	0.02
Spiked Amount	50.000		Recovery	=	120.84%	
50) Toluene-d8	7.72	98	112740	35.36	ug/l	0.02
Spiked Amount	50.000		Recovery	=	70.72%	
62) 4-Bromofluorobenzene	11.50	95	51511	35.81	ug/l	0.01
Spiked Amount	50.000		Recovery	=	71.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	176	Below Cal	#	3
11) Tert butyl alcohol	2.73	59	660	10.243	ug/l #	1
13) Acrolein	2.10	56	834	Below Cal	#	13
15) Acrylonitrile	3.09	53	925	7.579	ug/l #	22
16) Acetone	2.35	43	13066	56.654	ug/l #	92
20) Methylene Chloride	2.29	84	9580	11.481	ug/l #	85
25) 2-Butanone	4.53	43	1931	6.665	ug/l #	60
29) Tetrahydrofuran	4.32	42	476	3.575	ug/l #	46
37) Ethyl Acetate	4.30	43	294	Below Cal	#	1
38) Carbon Tetrachloride	4.21	117	75	Below Cal	#	14
39) Methylcyclohexane	5.78	83	2791	1.959	ug/l #	43
51) 4-Methyl-2-Pentanone	8.42	43	992	2.026	ug/l #	40
59) 2-Hexanone	9.60	43	392	1.158	ug/l	74

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

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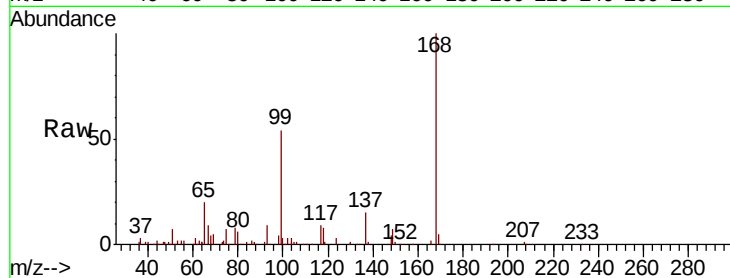
P021-SS006-0206-01

Tgt Ion:168 Resp: 120637

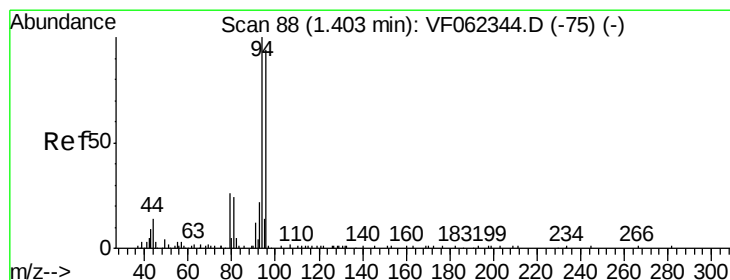
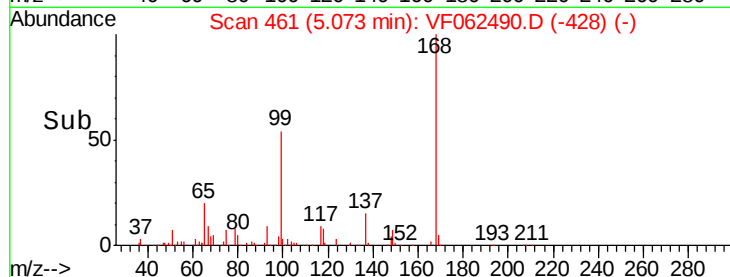
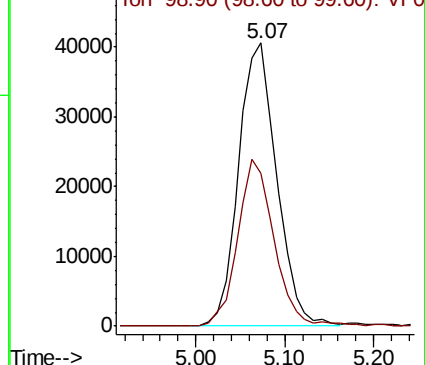
Ion Ratio Lower Upper

168 100

99 54.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062490.D

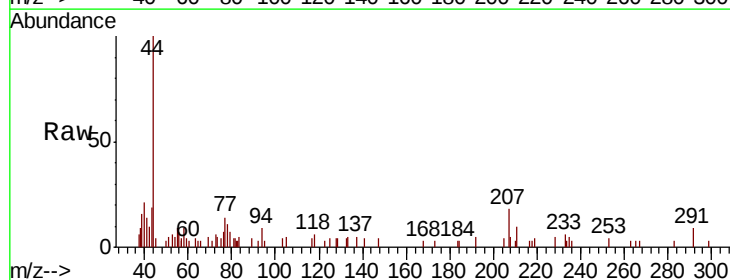
Acq: 12 May 2019 6:38

Tgt Ion: 94 Resp: 176

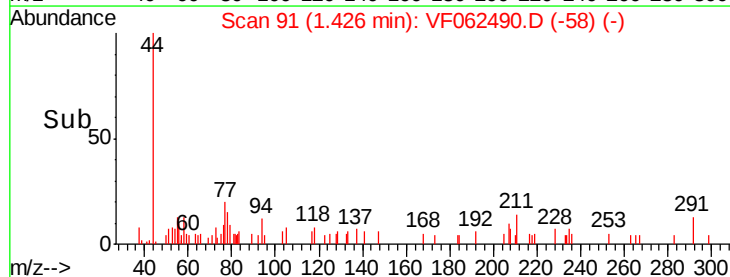
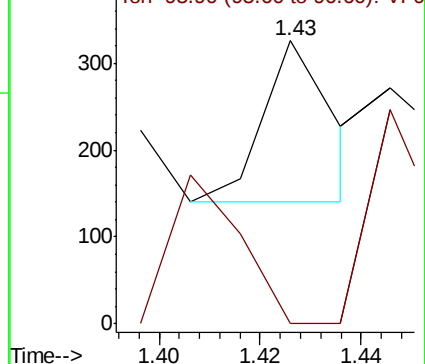
Ion Ratio Lower Upper

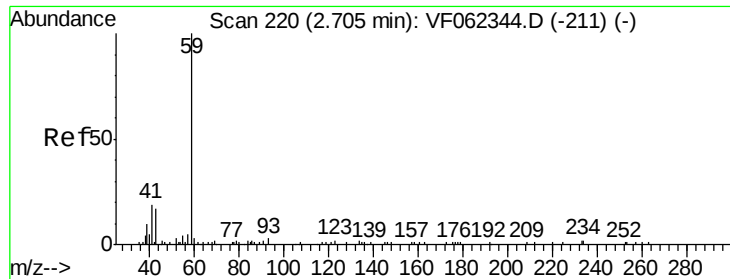
94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0



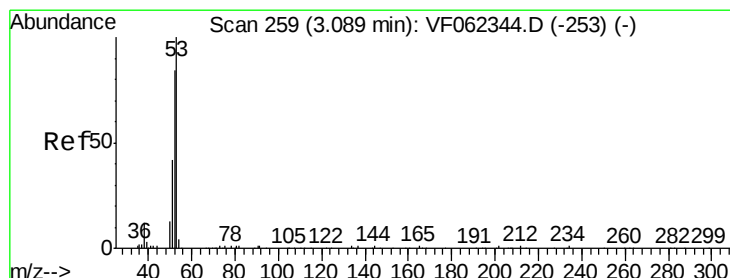
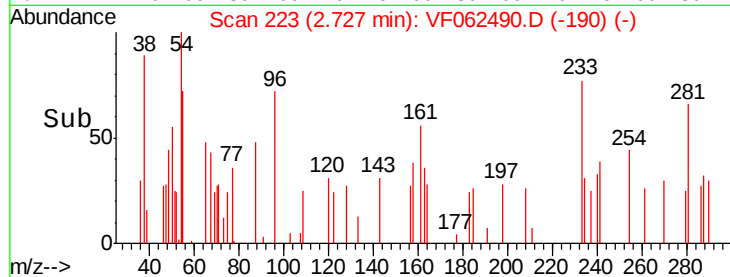
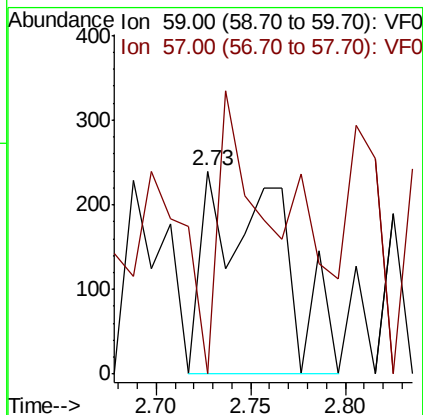
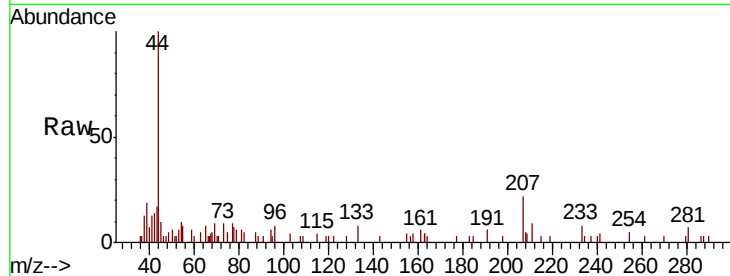


#11

Tert butyl alcohol
 Concen: 10.243 ug/l
 RT: 2.73 min Scan# 223
 Delta R.T. 0.02 min
 Lab File: VF062490.D
 Acq: 12 May 2019 6:38

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS006-0206-01

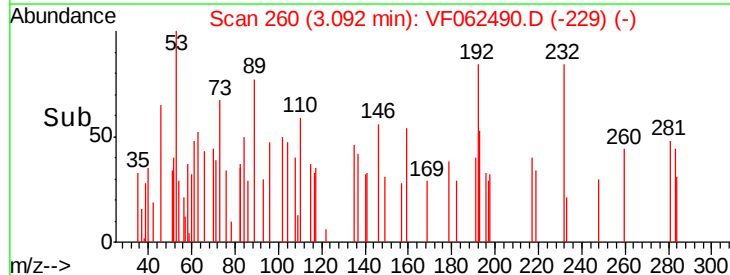
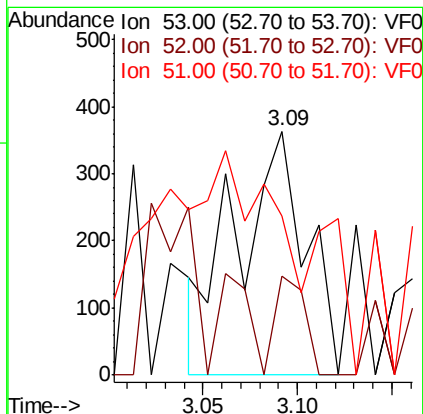
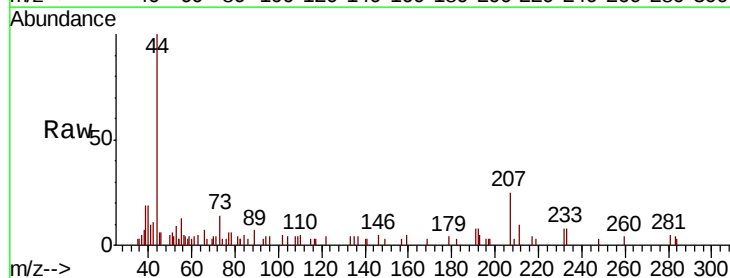
Tgt Ion: 59 Resp: 660
 Ion Ratio Lower Upper
 59 100
 57 122.4 9.3 13.9#

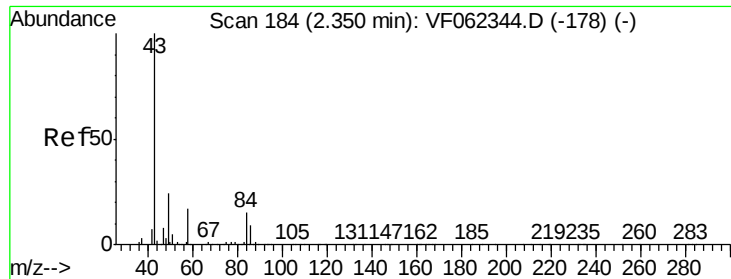


#15

Acrylonitrile
 Concen: 7.579 ug/l
 RT: 3.09 min Scan# 260
 Delta R.T. 0.00 min
 Lab File: VF062490.D
 Acq: 12 May 2019 6:38

Tgt Ion: 53 Resp: 925
 Ion Ratio Lower Upper
 53 100
 52 17.5 77.2 115.8#
 51 0.0 40.6 61.0#





#16

Acetone

Concen: 56.654 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Instrument :

MSVOA_F

ClientSampleId :

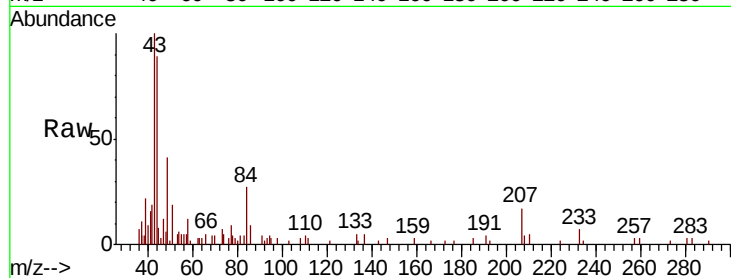
P021-SS006-0206-01

Tgt Ion: 43 Resp: 13066

Ion Ratio Lower Upper

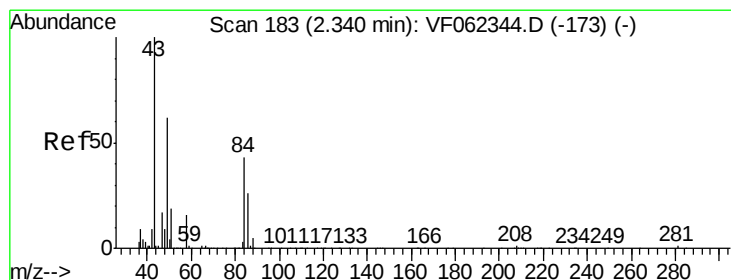
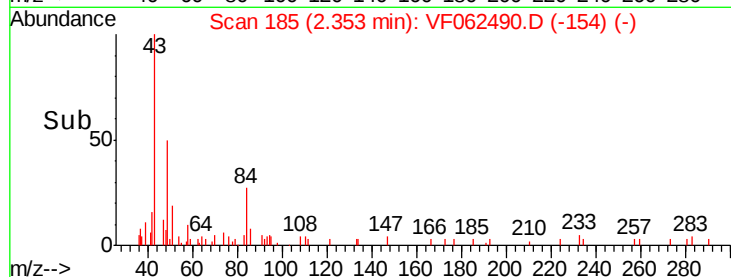
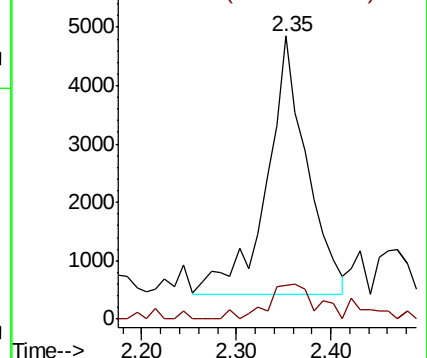
43 100

58 13.1 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: 11.481 ug/l

RT: 2.29 min Scan# 179

Delta R.T. -0.05 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Tgt Ion: 84 Resp: 9580

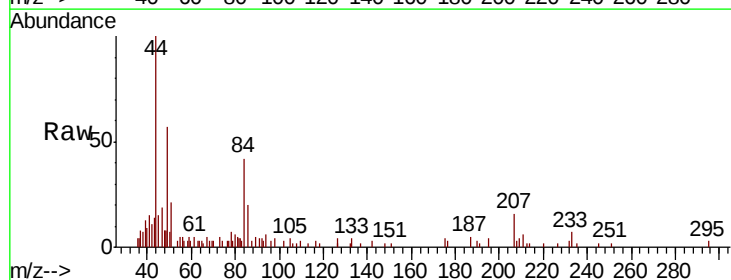
Ion Ratio Lower Upper

84 100

49 130.0 117.5 176.3

51 37.0 37.0 55.4

86 47.2 49.3 73.9#

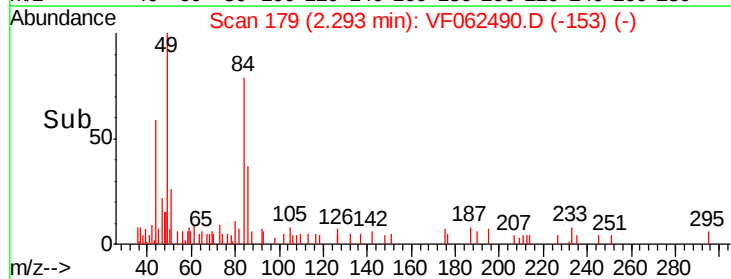
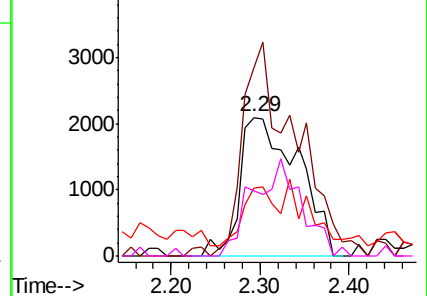


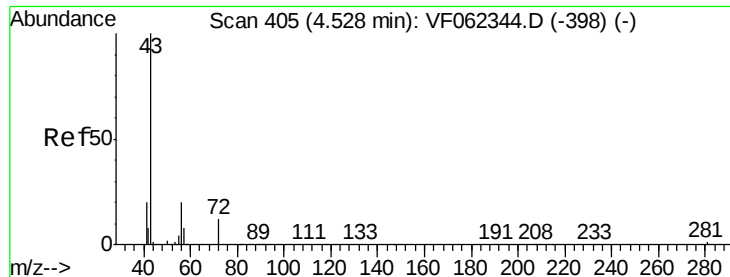
Abundance Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0





#25

2-Butanone

Concen: 6.665 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.00 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Instrument :

MSVOA_F

ClientSampleId :

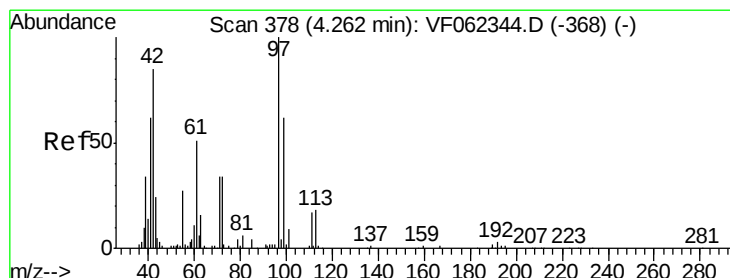
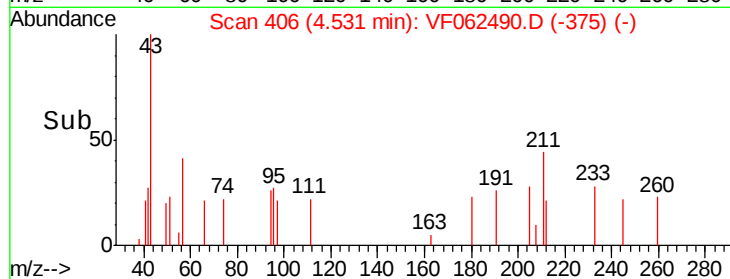
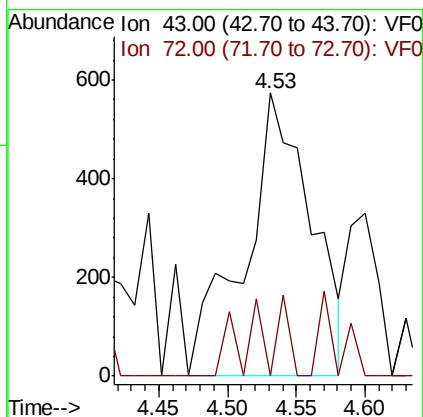
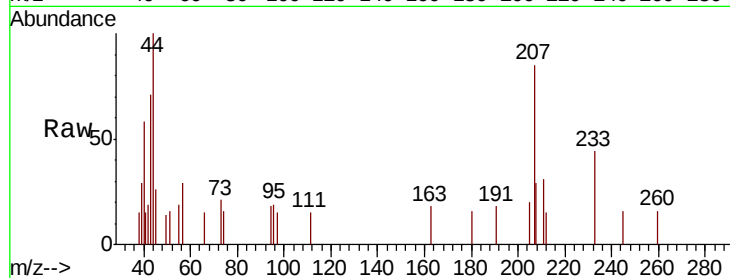
P021-SS006-0206-01

Tgt Ion: 43 Resp: 1931

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: 3.575 ug/l

RT: 4.32 min Scan# 385

Delta R.T. 0.06 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

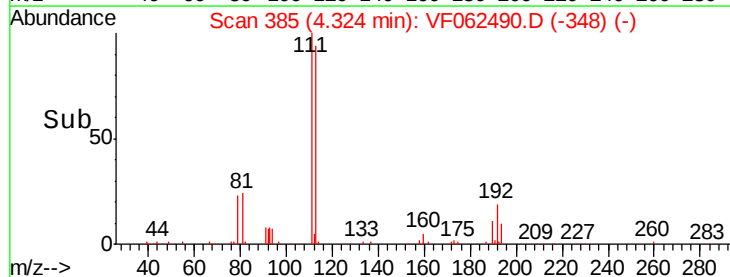
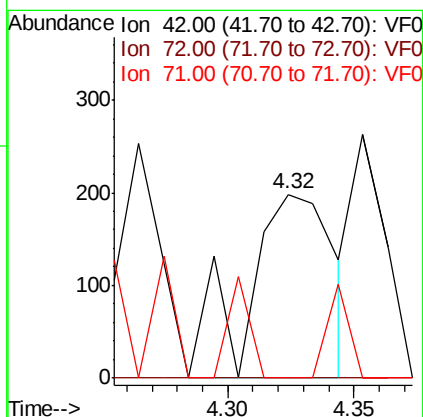
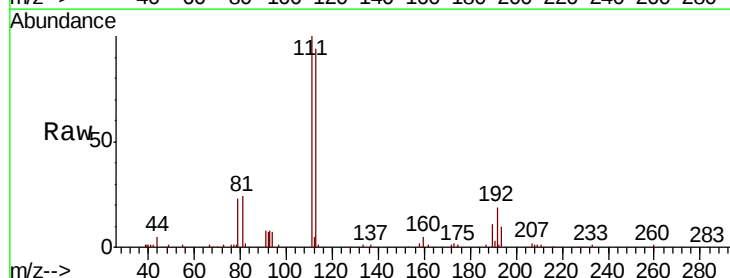
Tgt Ion: 42 Resp: 476

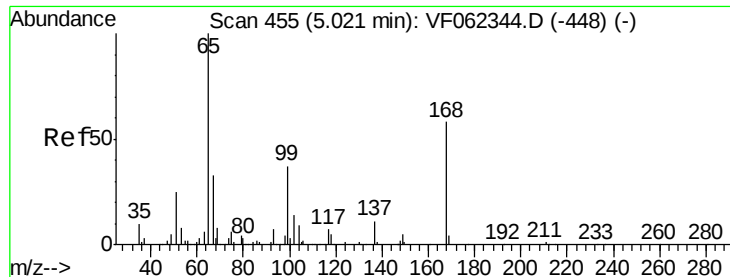
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 12.6 31.7 47.5#

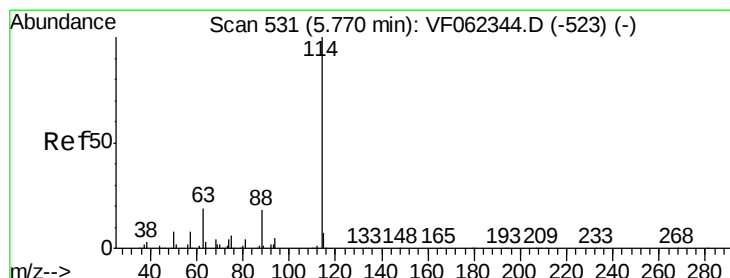
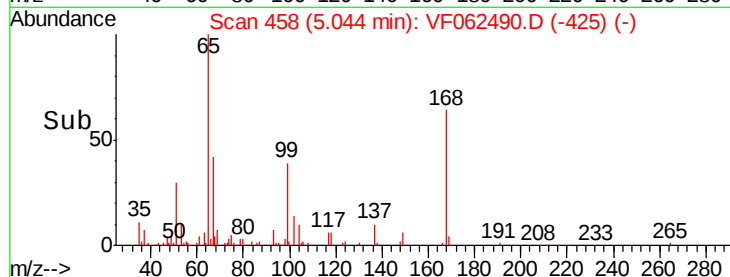
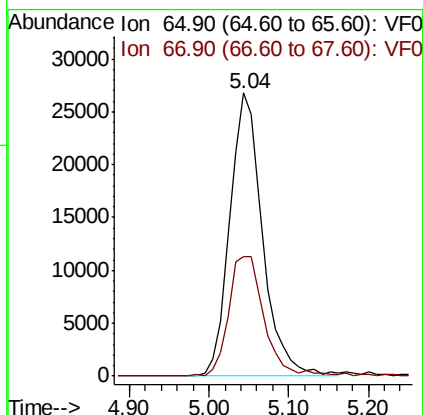
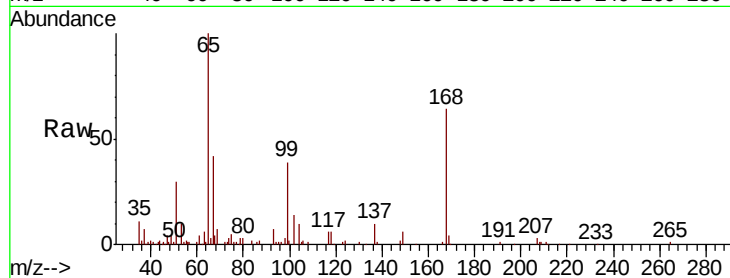




#33
 1,2-Dichloroethane-d4
 Concen: 67.475 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.02 min
 Lab File: VF062490.D
 Acq: 12 May 2019 6:38

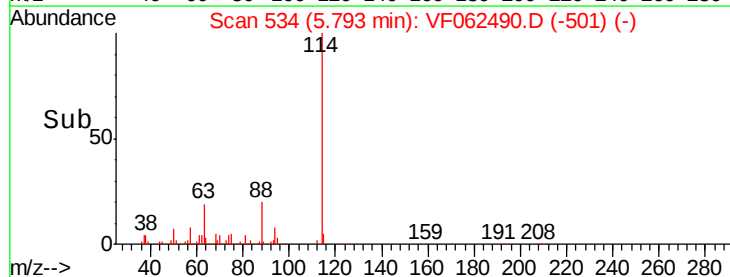
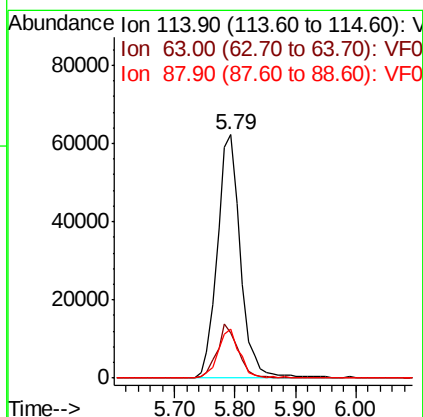
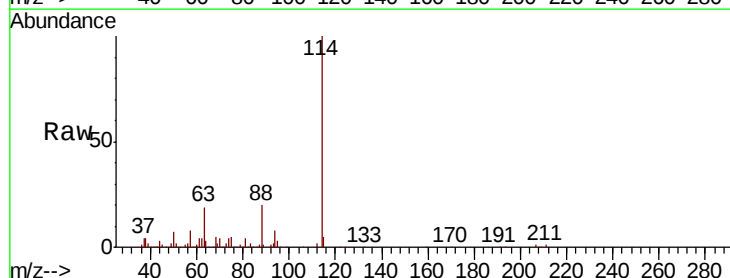
Instrument :
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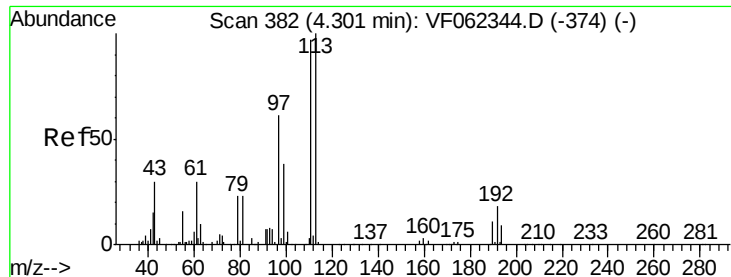
Tgt Ion: 65 Resp: 76926
 Ion Ratio Lower Upper
 65 100
 67 46.0 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VF062490.D
 Acq: 12 May 2019 6:38

Tgt Ion: 114 Resp: 165347
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 37.4
 88 20.2 0.0 36.4





#35

Dibromofluoromethane

Concen: 60.422 ug/l

RT: 4.32 min Scan# 385

Delta R.T. 0.02 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Instrument :

MSVOA_F

ClientSampleId :

P021-SS006-0206-01

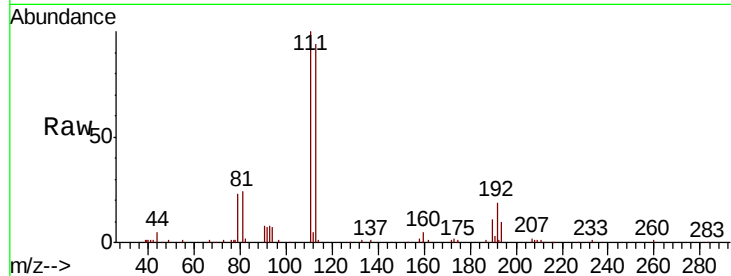
Tgt Ion:113 Resp: 79594

Ion Ratio Lower Upper

113 100

111 107.8 79.4 119.0

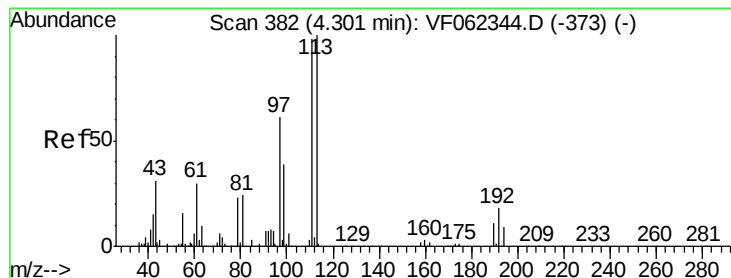
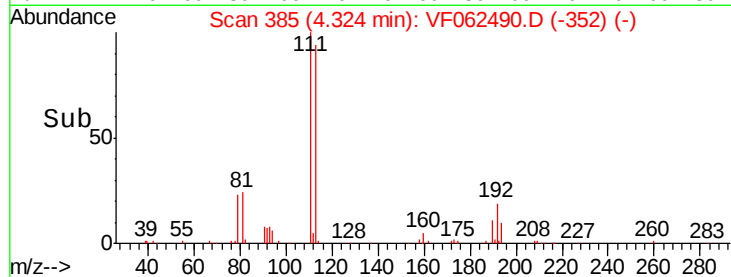
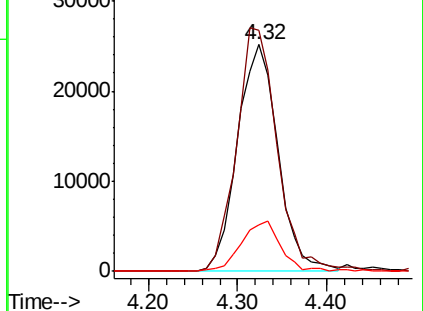
192 21.4 16.0 24.0



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: 4.30 min Scan# 383

Delta R.T. 0.00 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

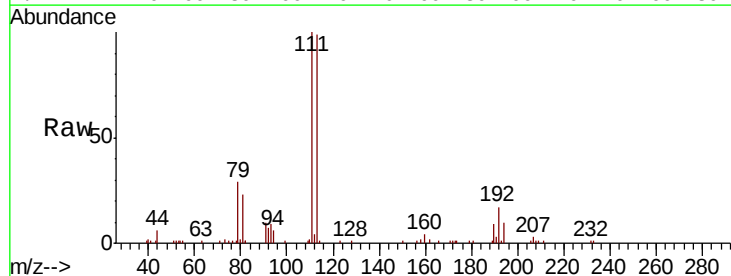
Tgt Ion: 43 Resp: 294

Ion Ratio Lower Upper

43 100

61 0.0 0.0 0.0

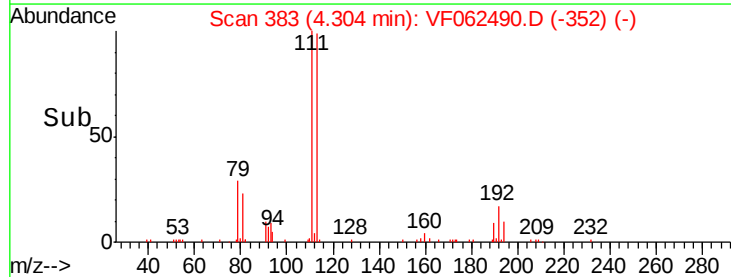
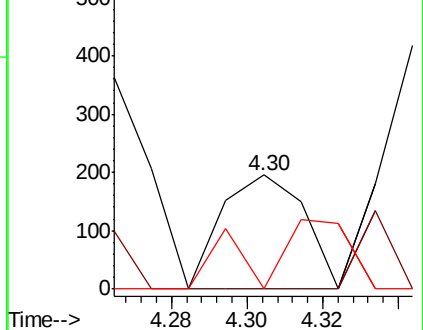
70 67.3 8.2 12.2#

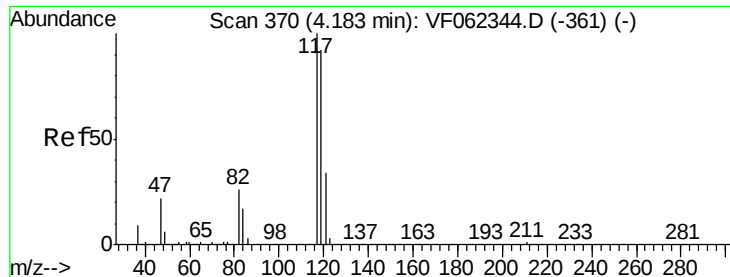


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.21 min Scan# 373

Delta R.T. 0.02 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Instrument :

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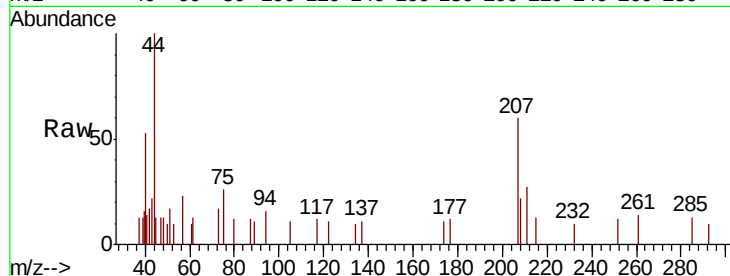
Tgt Ion: 117 Resp: 75

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

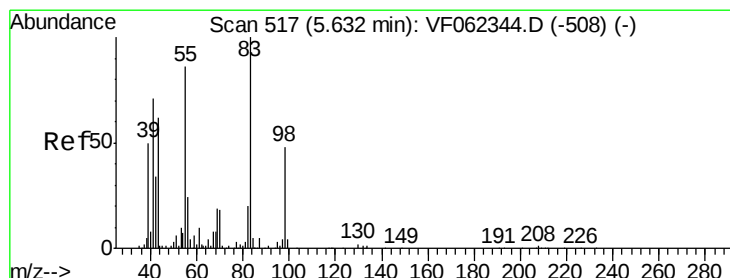
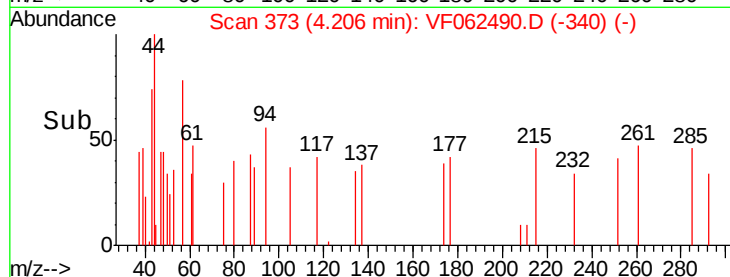
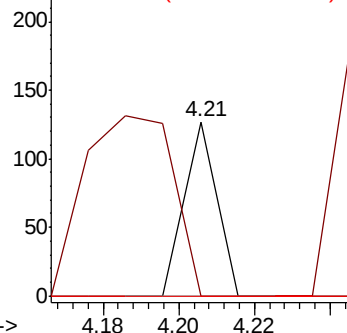
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.959 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

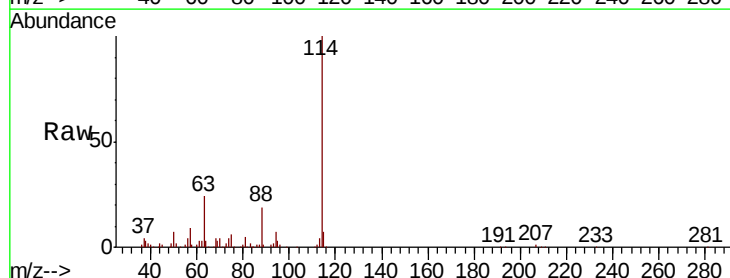
Tgt Ion: 83 Resp: 2791

Ion Ratio Lower Upper

83 100

55 41.9 69.0 103.6#

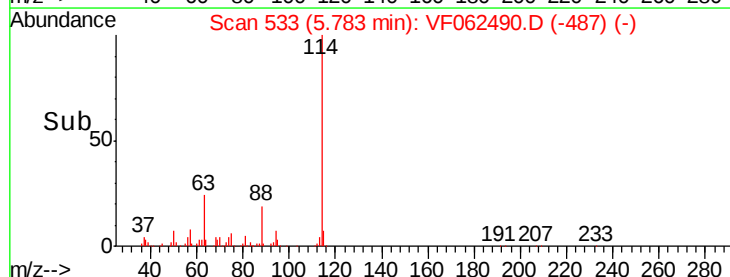
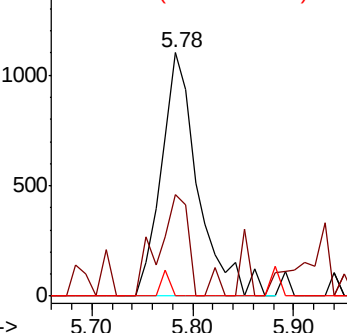
98 0.0 38.6 58.0#

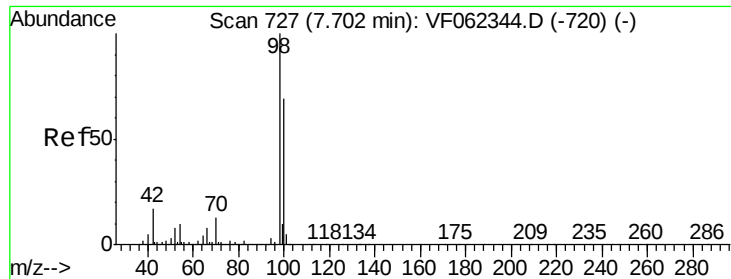


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#50

Toluene-d8

Concen: 35.356 ug/l

RT: 7.72 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062490.D

Acq: 12 May 2019 6:38

Instrument :

MSVOA_F

ClientSampleId :

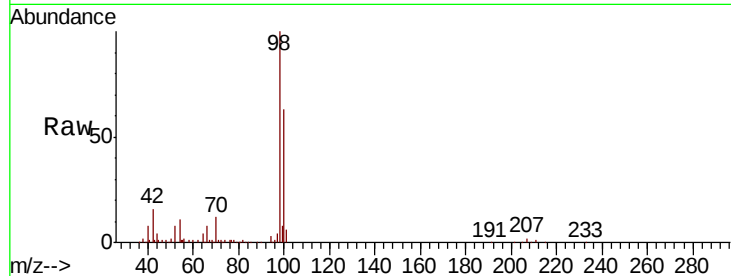
P021-SS006-0206-01

Tgt Ion: 98 Resp: 112740

Ion Ratio Lower Upper

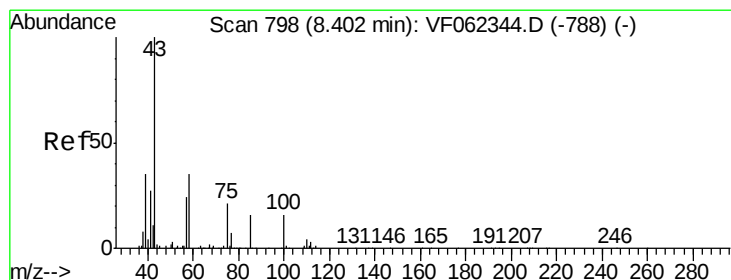
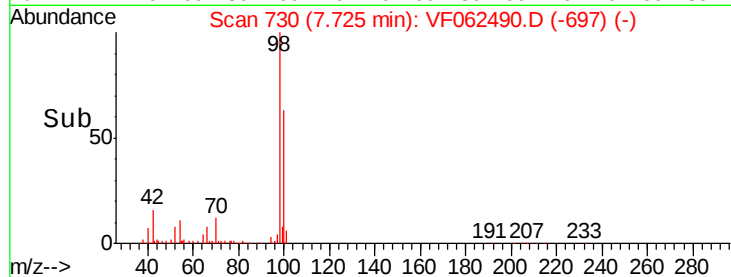
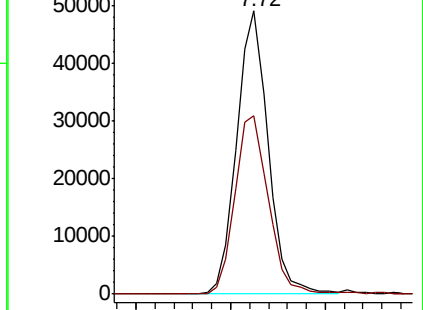
98 100

100 66.9 53.3 79.9



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: 2.026 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062490.D

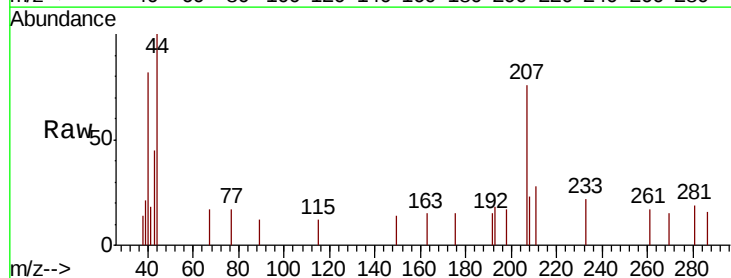
Acq: 12 May 2019 6:38

Tgt Ion: 43 Resp: 992

Ion Ratio Lower Upper

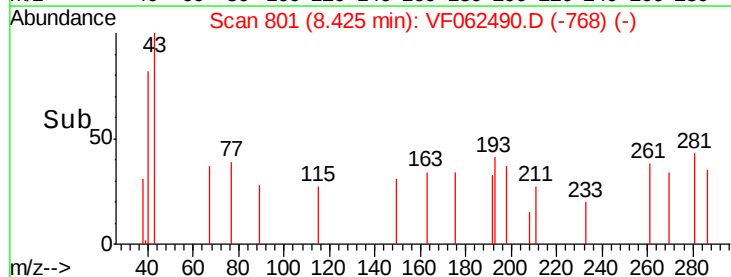
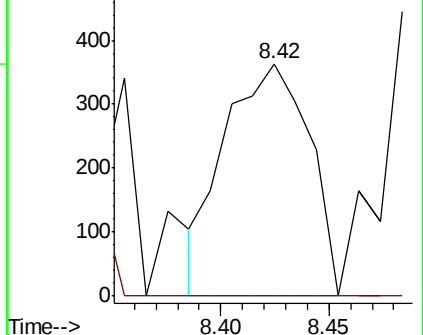
43 100

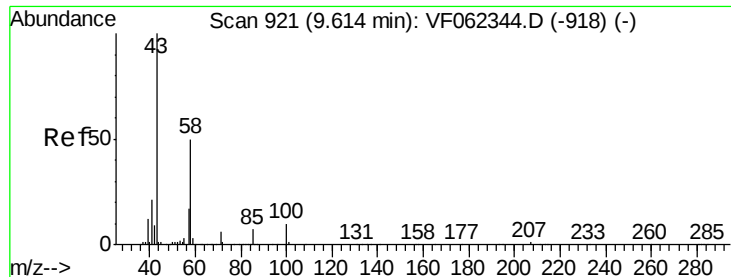
58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

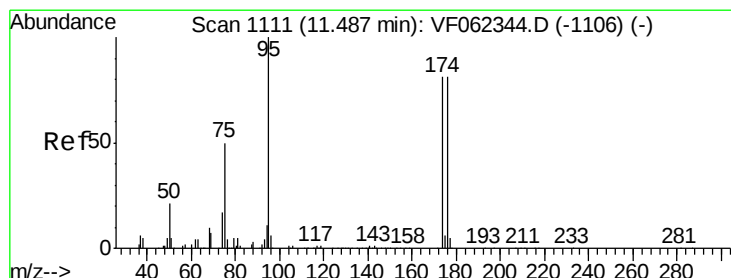
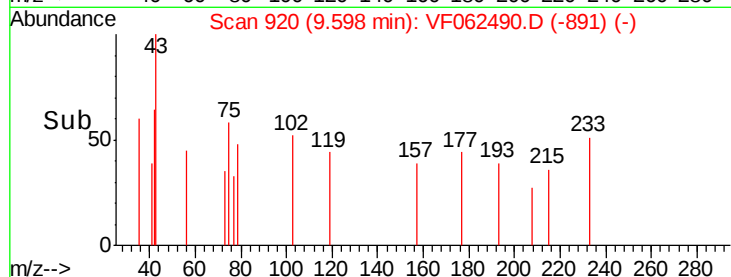
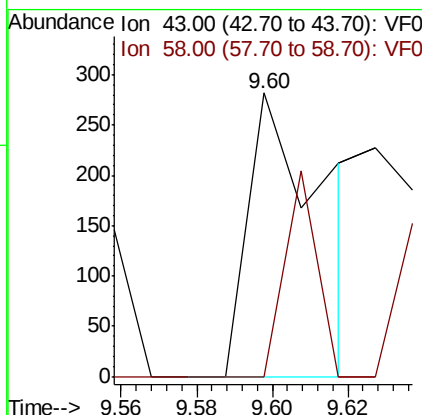
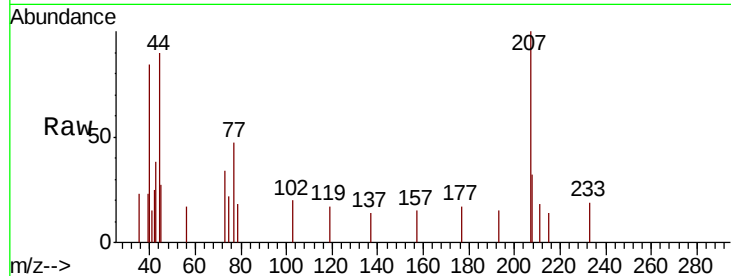




#59
2-Hexanone
Concen: 1.158 ug/l
RT: 9.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: VF062490.D
Acq: 12 May 2019 6:38

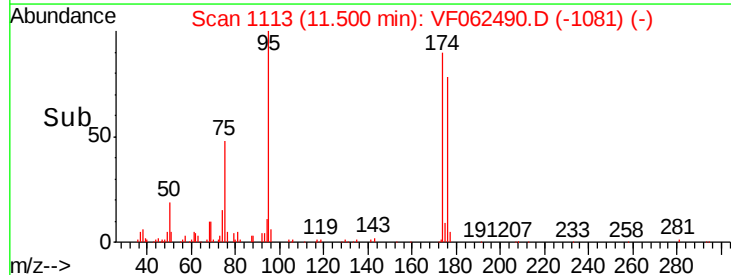
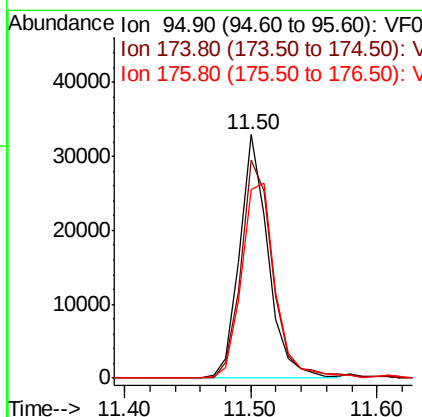
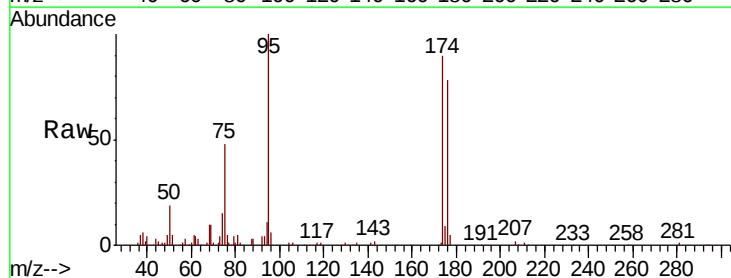
Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0206-01

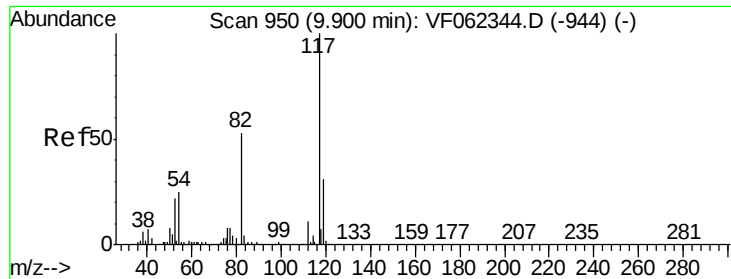
Tgt Ion: 43 Resp: 392
Ion Ratio Lower Upper
43 100
58 30.9 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 35.806 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062490.D
Acq: 12 May 2019 6:38

Tgt Ion: 95 Resp: 51511
Ion Ratio Lower Upper
95 100
174 100.2 0.0 191.8
176 95.1 0.0 193.2

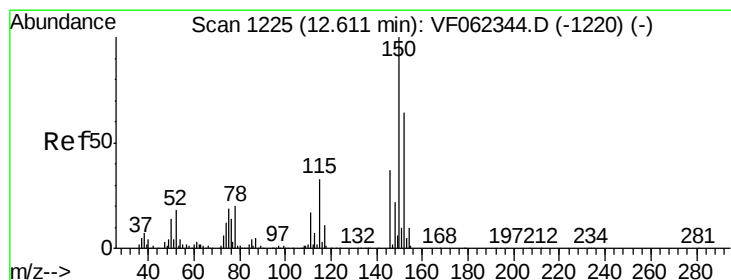
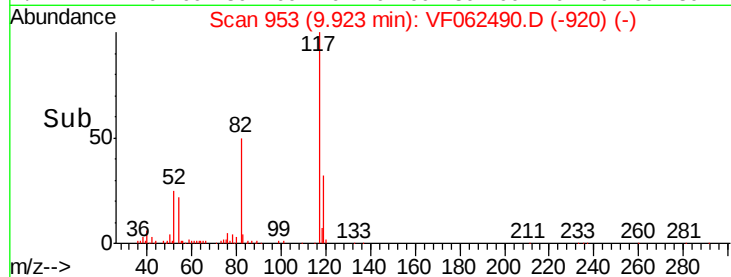
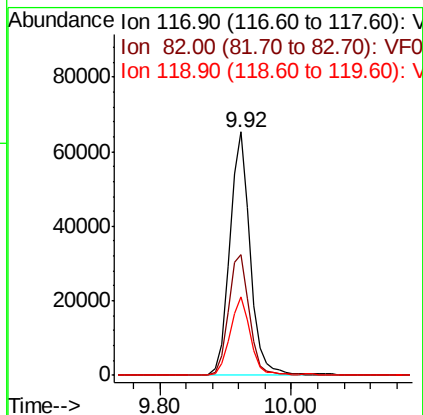
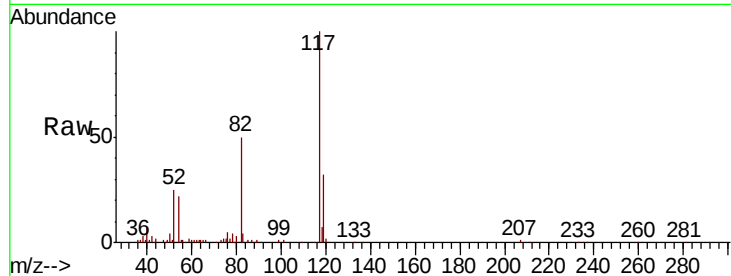




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062490.D
Acq: 12 May 2019 6:38

Instrument :
MSVOA_F
ClientSampleId :
P021-SS006-0206-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.6	42.2	63.2
119	32.5	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062490.D
Acq: 12 May 2019 6:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	26.4	79.2
150	161.8	0.0	335.0

