

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061464.D
 Acq On : 19 May 2020 6:56
 Operator : JC/MD
 Sample : L2645-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-051320

Quant Time: May 19 07:49:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	245114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454845	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	449803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	179087	48.95	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.90%	
35) Dibromofluoromethane	7.55	113	119036	49.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.92%	
50) Toluene-d8	10.06	98	576493	52.16	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.38	95	222272	53.83	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.66%	

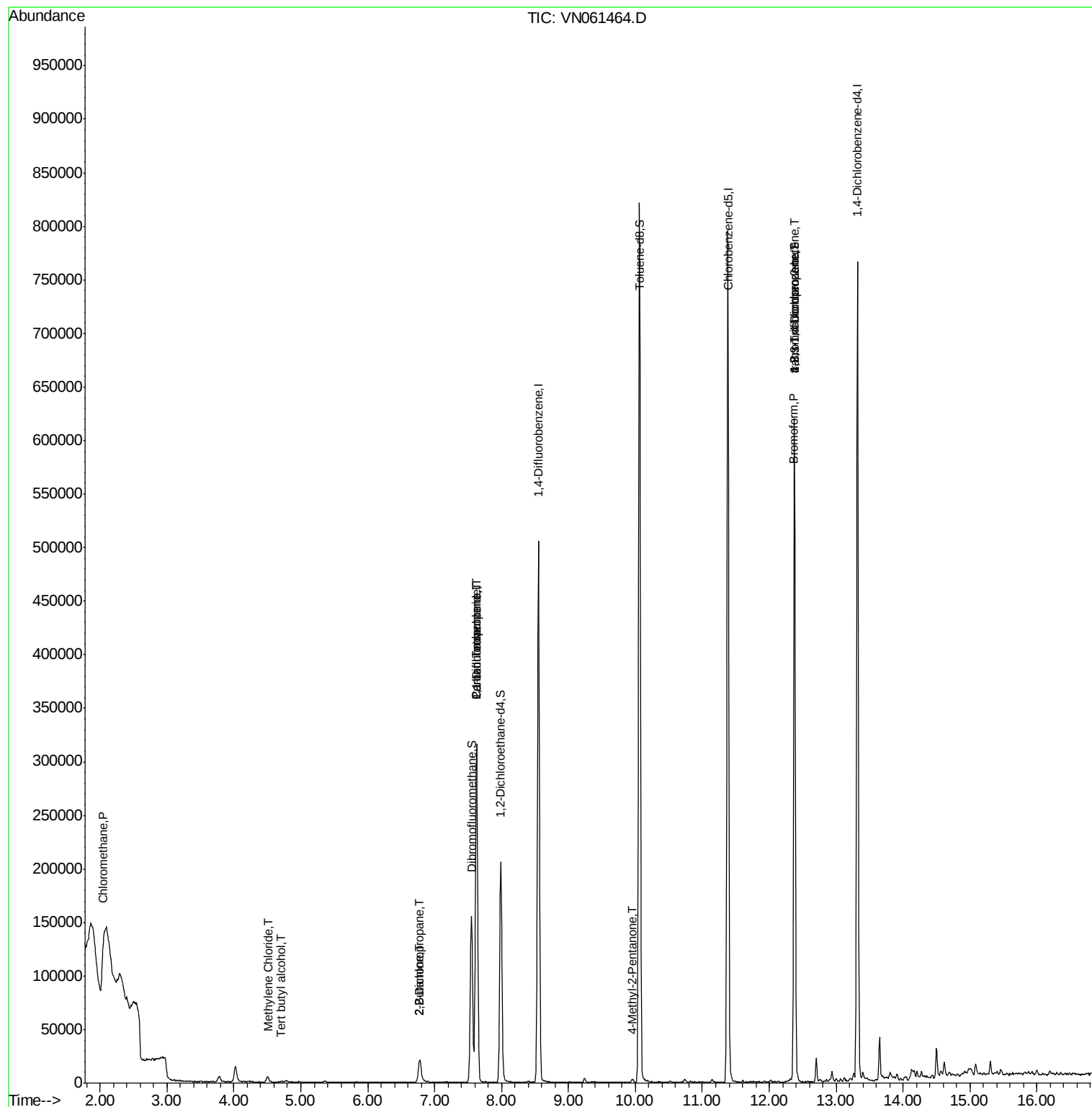
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	805	0.242	ug/l	97
5) Bromomethane	2.53	94	196	Below Cal	#	65
11) Tert butyl alcohol	4.72	59	244	0.579	ug/l #	73
13) Acrolein	3.59	56	34	Below Cal	#	16
16) Acetone	3.79	43	9833	Below Cal		96
17) Carbon Disulfide	4.00	76	146	Below Cal	#	75
18) Methyl Acetate	4.27	43	367	Below Cal	#	49
20) Methylene Chloride	4.50	84	3463	1.152	ug/l	96
25) 2-Butanone	6.78	43	1345	0.808	ug/l #	46
26) 2,2-Dichloropropane	6.78	77	1195	0.234	ug/l #	54
31) Cyclohexane	7.63	56	5821	Below Cal	#	14
36) 1,1-Dichloropropene	7.63	75	21323	5.014	ug/l #	50
38) Carbon Tetrachloride	7.63	117	26510	6.769	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	2545	0.694	ug/l #	79
71) Bromoform	12.36	173	148	2.076	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	117325	27.852	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117325	73.885	ug/l #	12

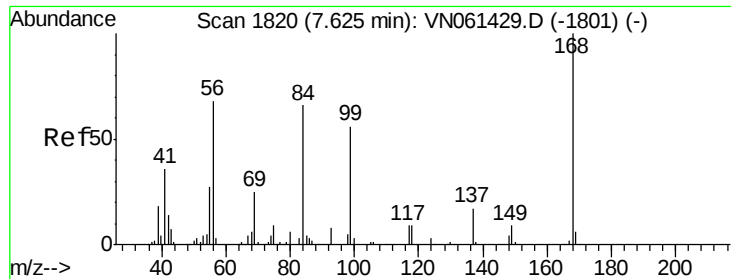
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampled :

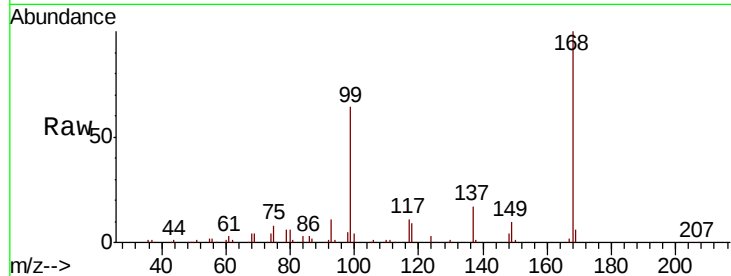
FB-051320

Tot Ion:168 Resp: 245114

Ion Ratio Lower Upper

168 100

99 64.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

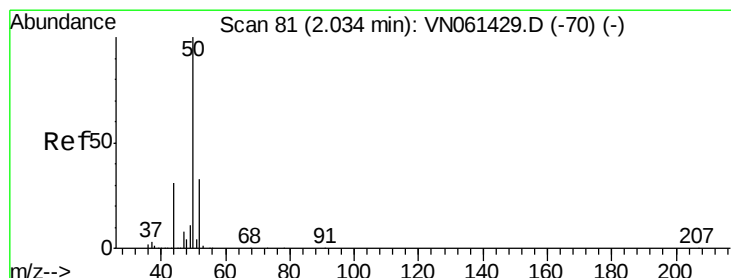
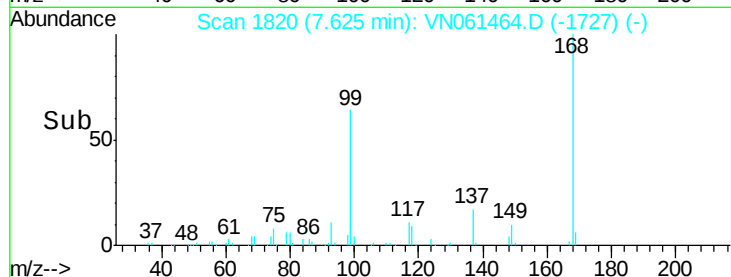
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061464.D

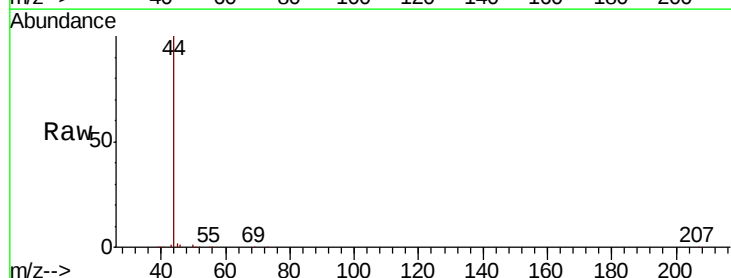
Acq: 19 May 2020 6:56

Tgt Ion: 50 Resp: 805

Ion Ratio Lower Upper

50 100

52 35.1 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

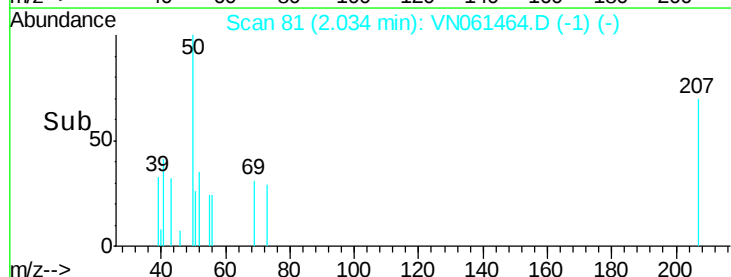
600

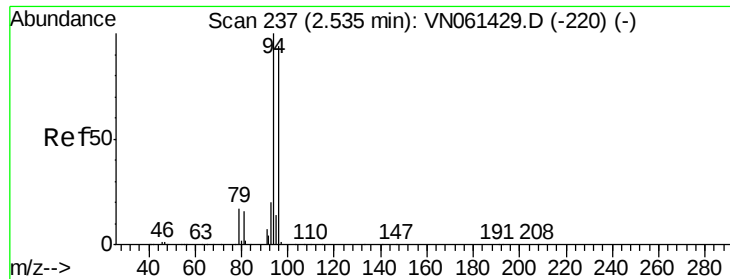
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampled :

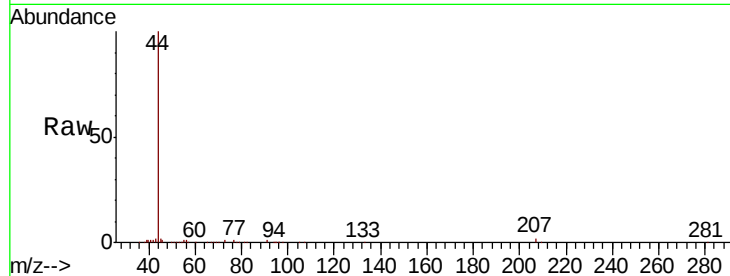
FB-051320

Tot Ion: 94 Resp: 196

Ion Ratio Lower Upper

94 100

96 59.7 74.9 112.3#

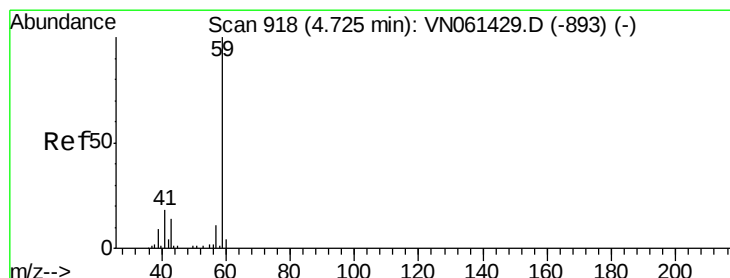
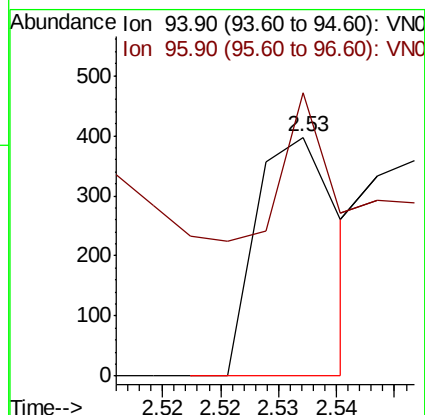
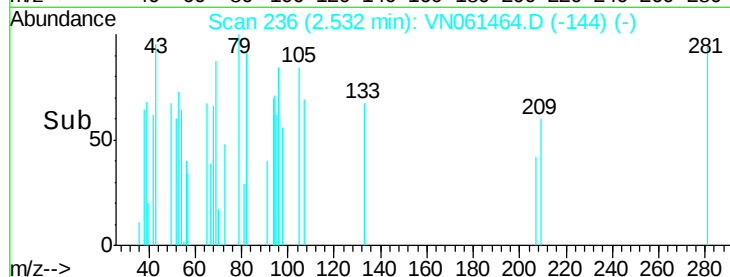


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.53

Time-->



#11

Tert butyl alcohol

Concen: 0.579 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN061464.D

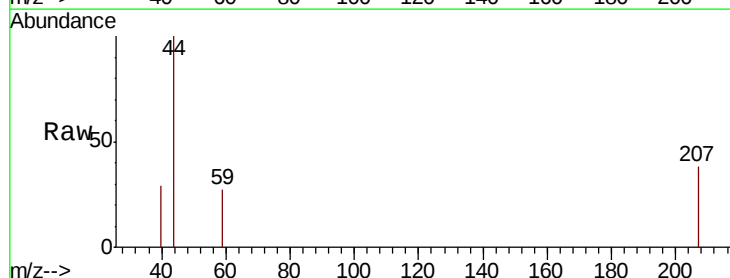
Acq: 19 May 2020 6:56

Tgt Ion: 59 Resp: 244

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#

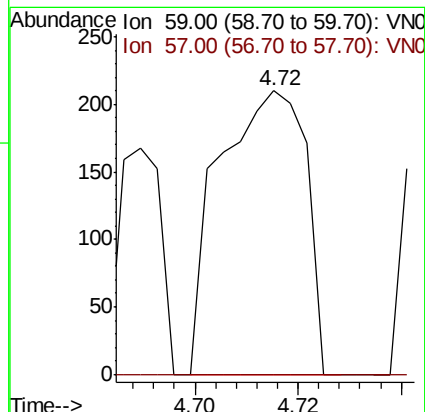
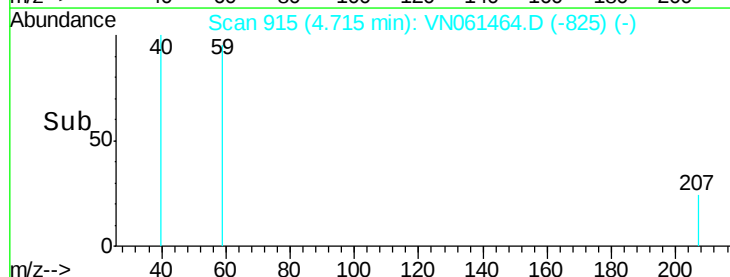


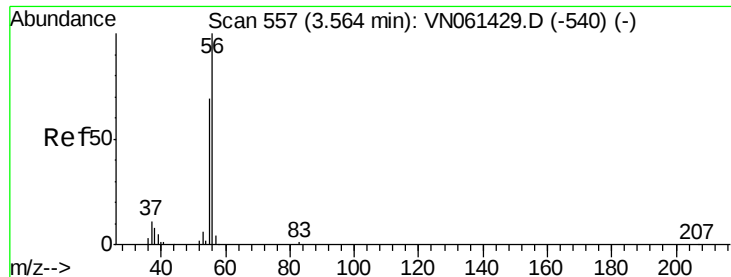
Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.59 min Scan# 564

Delta R.T. 0.02 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

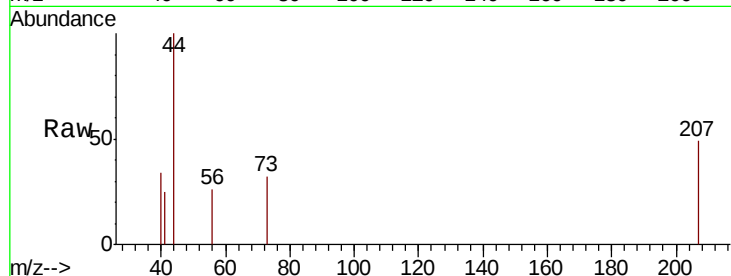
FB-051320

Tot Ion: 56 Resp: 34

Ion Ratio Lower Upper

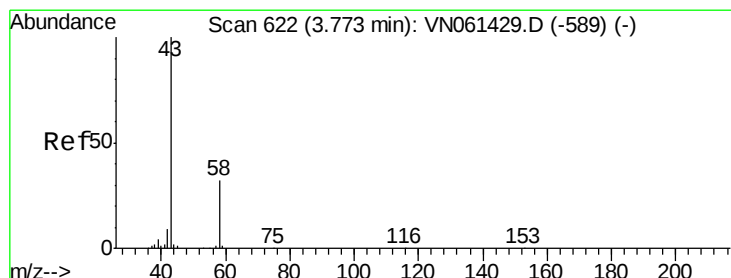
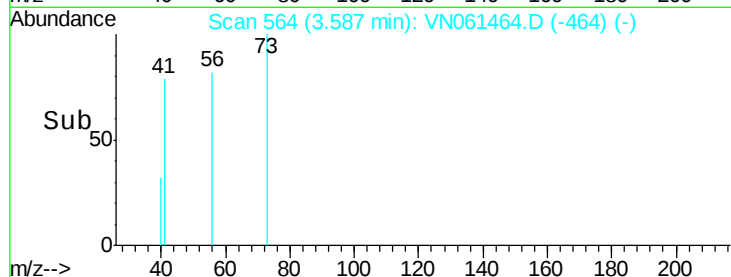
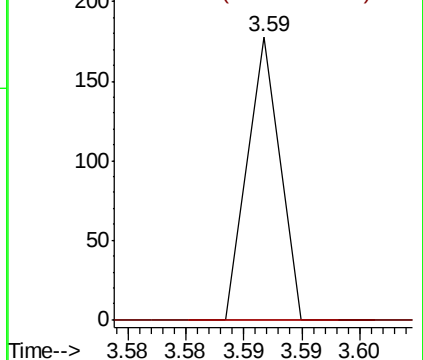
56 100

55 0.0 54.8 82.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061464.D

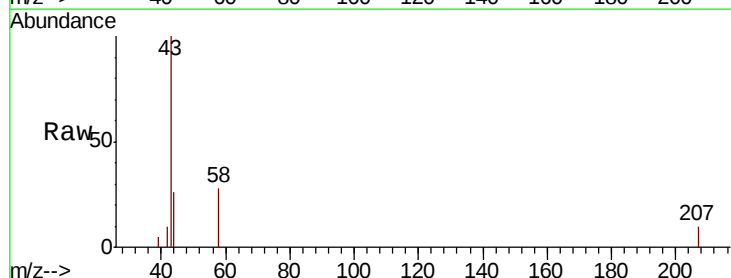
Acq: 19 May 2020 6:56

Tgt Ion: 43 Resp: 9833

Ion Ratio Lower Upper

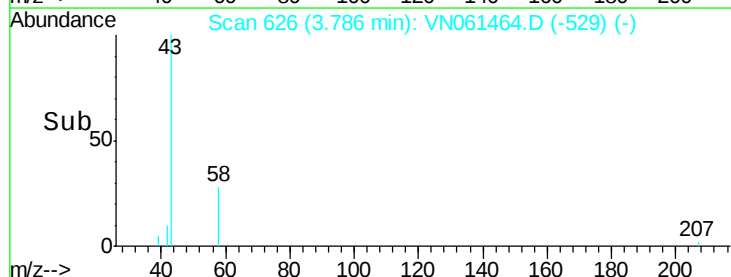
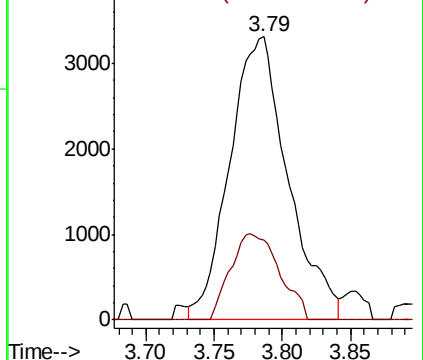
43 100

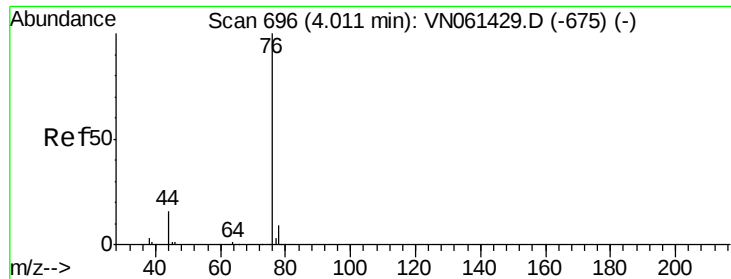
58 29.7 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

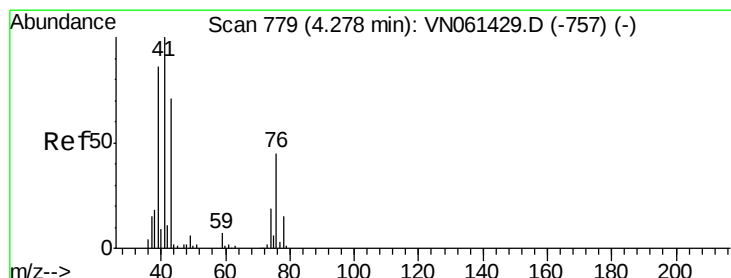
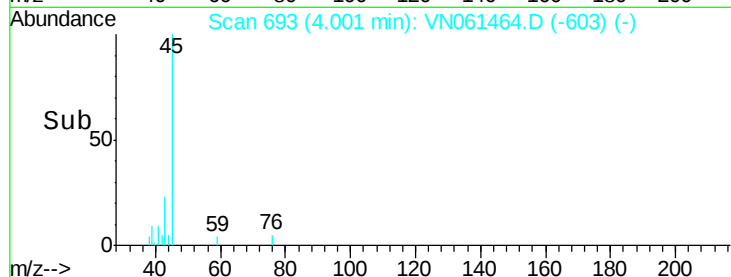
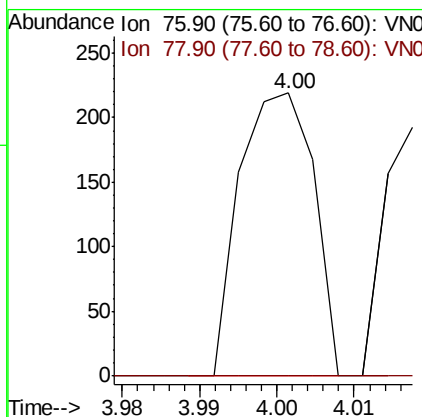
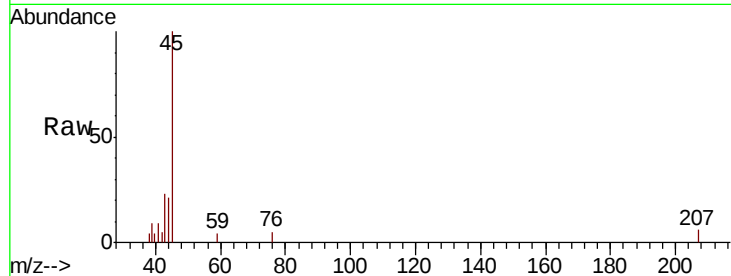




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.00 min Scan# 693
Delta R.T. -0.01 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

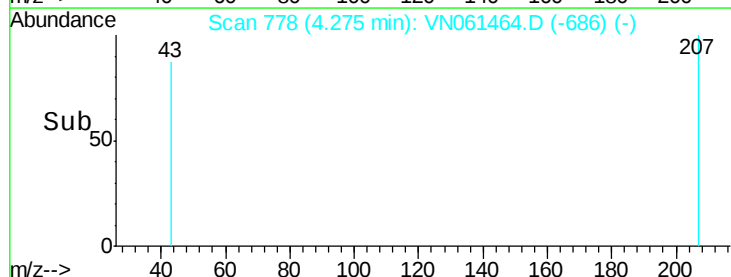
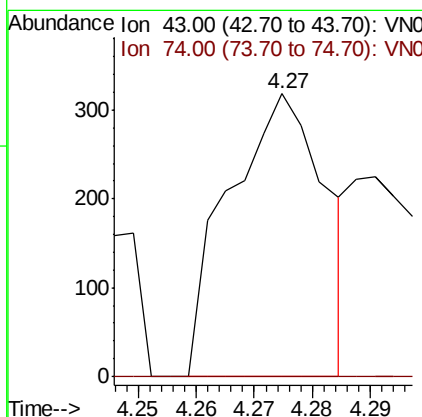
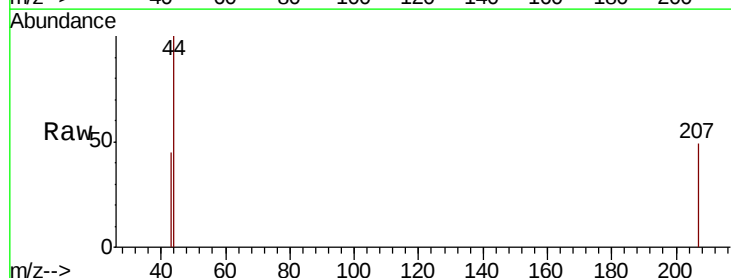
Instrument :
MSVOA_N
ClientSampleId :
FB-051320

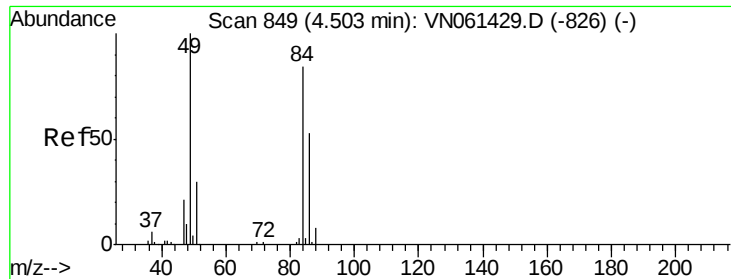
Tot Ion: 76 Resp: 146
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

Tgt Ion: 43 Resp: 367
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#

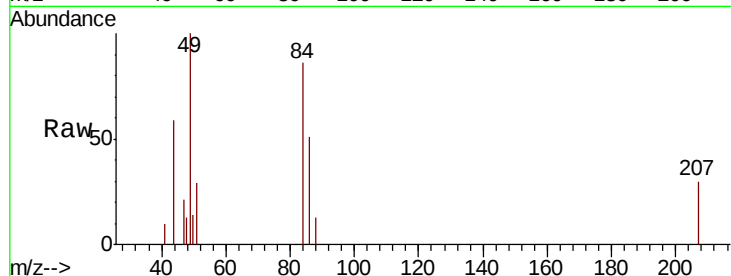




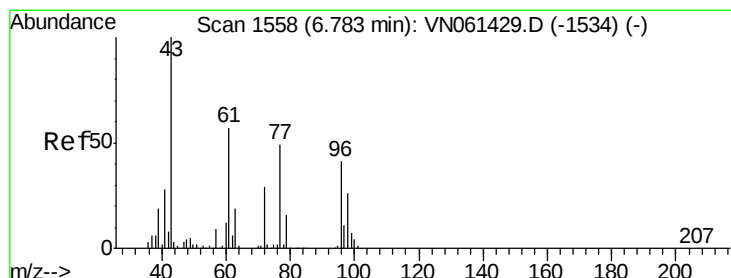
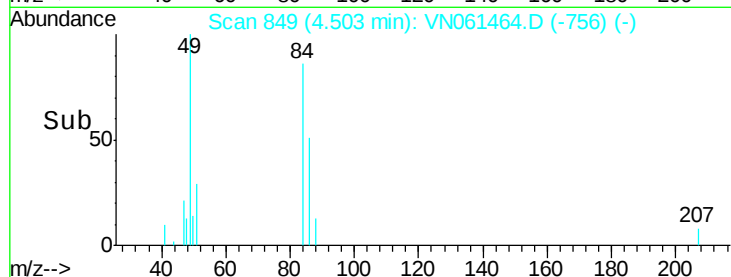
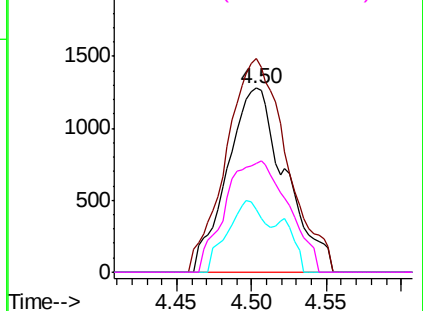
#20
Methvlene Chloride
Concen: 1.152 ug/l
RT: 4.50 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

Instrument :
MSVOA_N
ClientSampled :
FB-051320

Tot Ion:	84	Resp:	3463
Ion	Ratio	Lower	Upper
84	100		
49	115.9	95.3	142.9
51	34.1	29.0	43.6
86	58.8	50.2	75.2

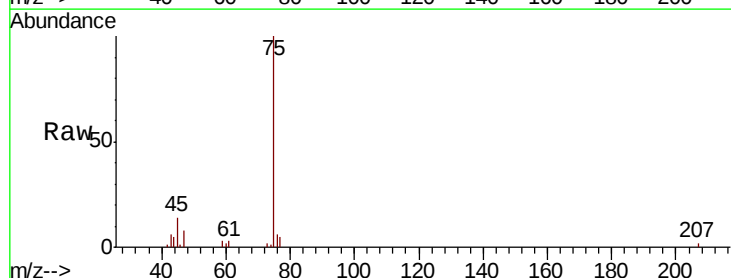


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

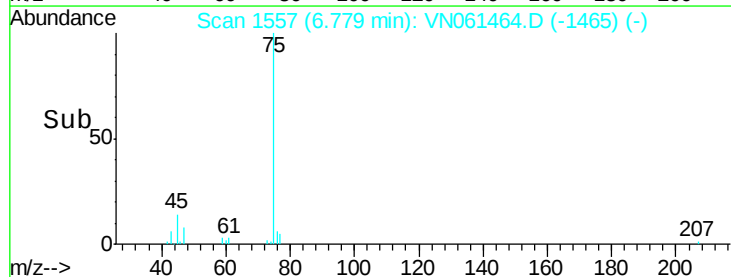
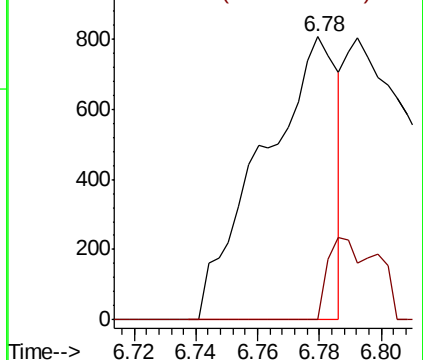


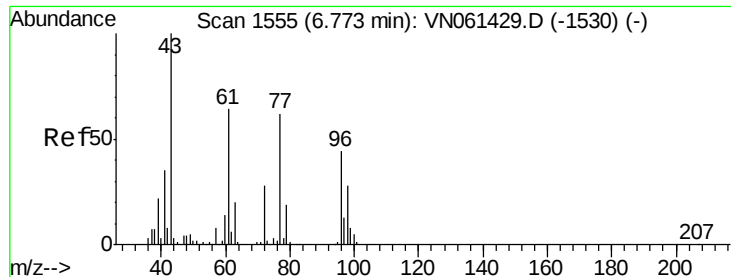
#25
2-Butanone
Concen: 0.808 ug/l
RT: 6.78 min Scan# 1557
Delta R.T. -0.00 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

Tgt Ion:	43	Resp:	1345
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.0	34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

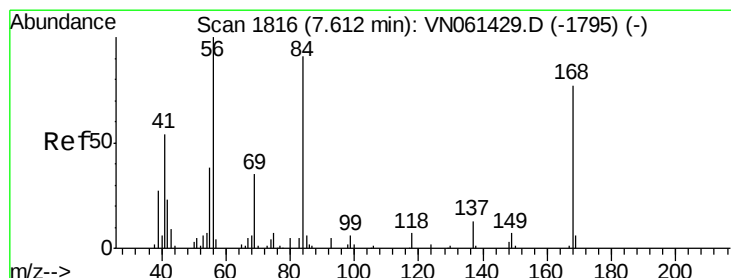
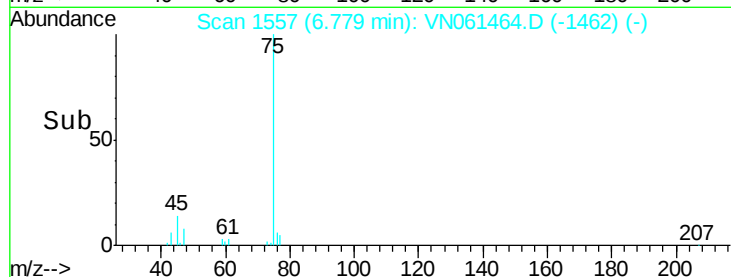
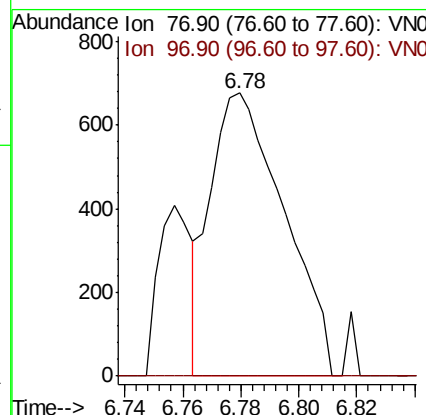
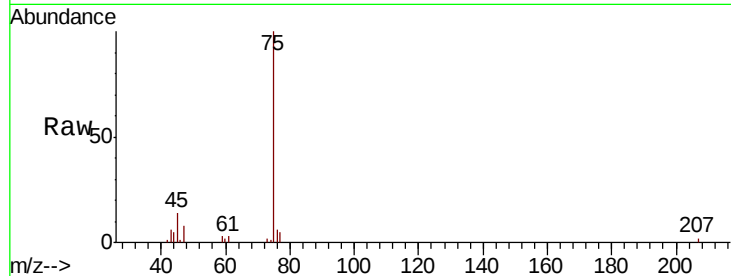




#26
 2,2-Dichloropropane
 Concen: 0.234 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. 0.01 min
 Lab File: VN061464.D
 Acq: 19 May 2020 6:56

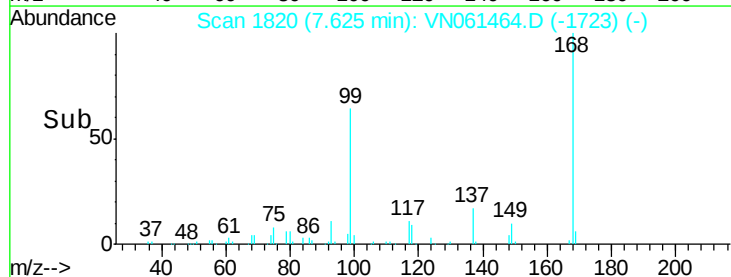
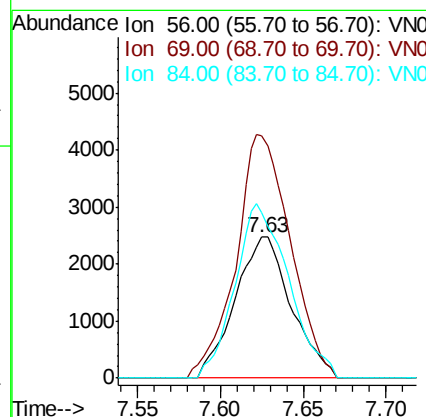
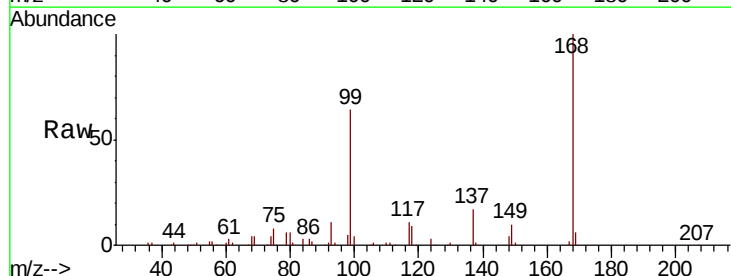
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-051320

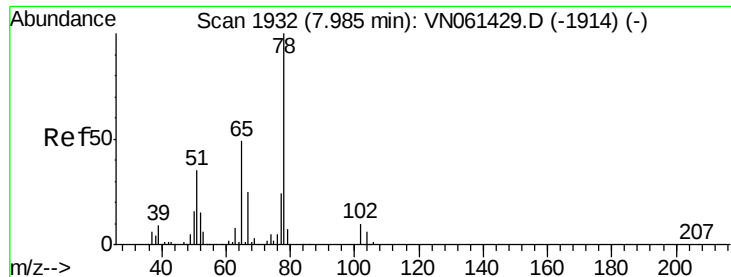
Tot Ion: 77 Resp: 1195
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.9 32.9#



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.63 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: VN061464.D
 Acq: 19 May 2020 6:56

Tgt Ion: 56 Resp: 5821
 Ion Ratio Lower Upper
 56 100
 69 171.9 27.8 41.6#
 84 117.6 72.7 109.1#





#33

1,2-Dichloroethane-d4

Concen: 48.955 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

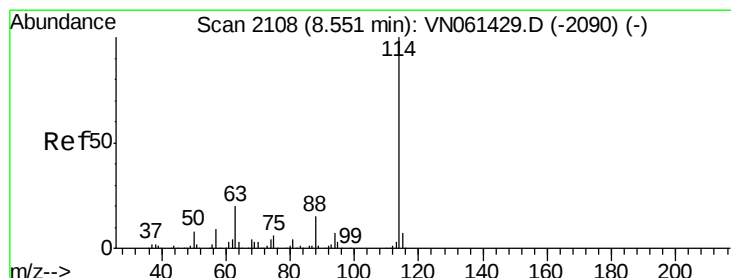
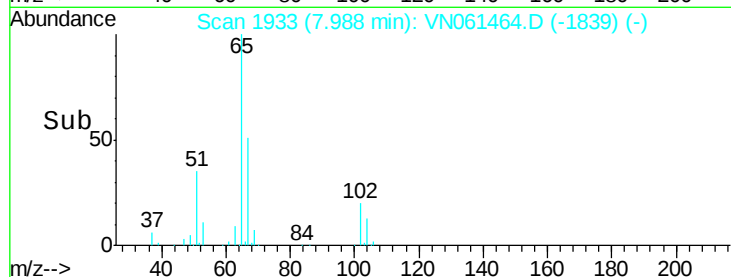
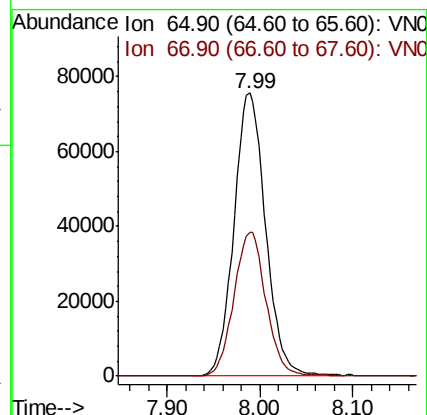
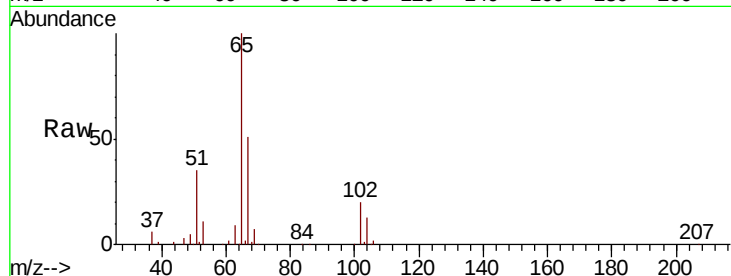
FB-051320

Tot Ion: 65 Resp: 179087

Ion Ratio Lower Upper

65 100

67 51.3 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

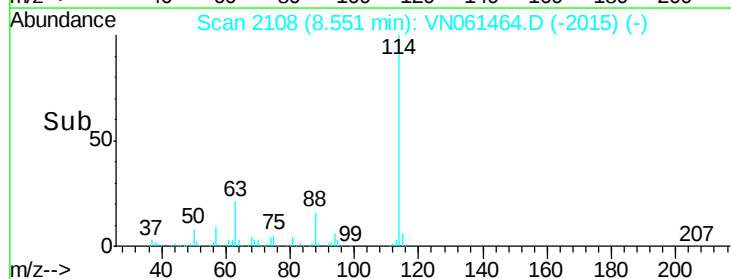
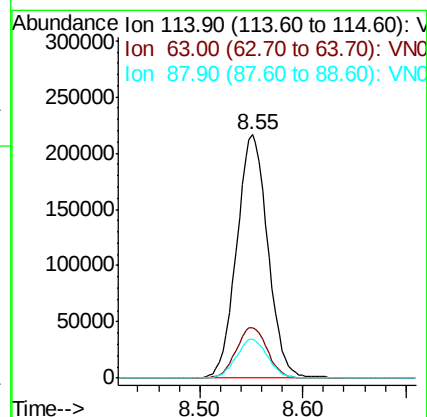
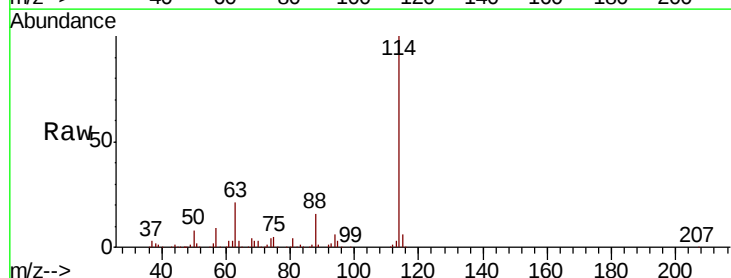
Tgt Ion: 114 Resp: 454845

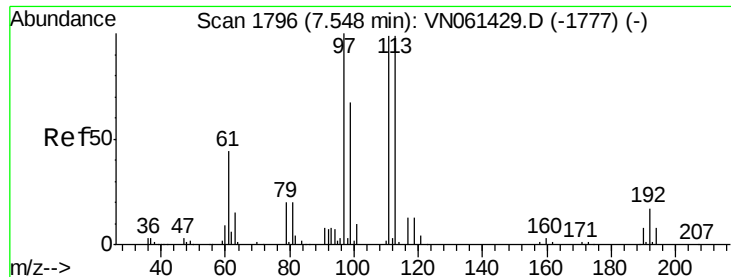
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.8

88 15.9 0.0 30.8

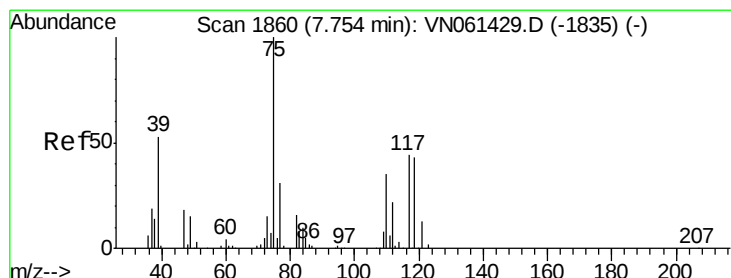
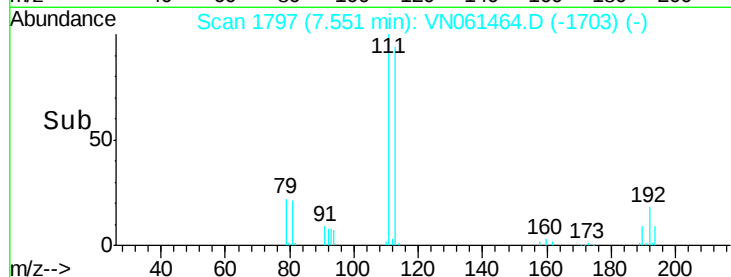
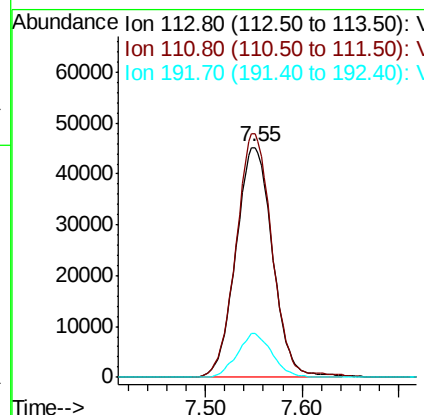
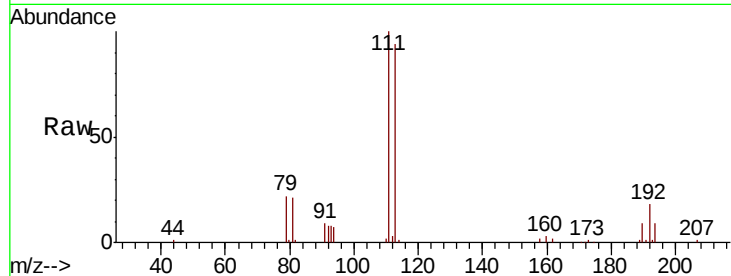




#35
 Dibromofluoromethane
 Concen: 49.956 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061464.D
 Acq: 19 May 2020 6:56

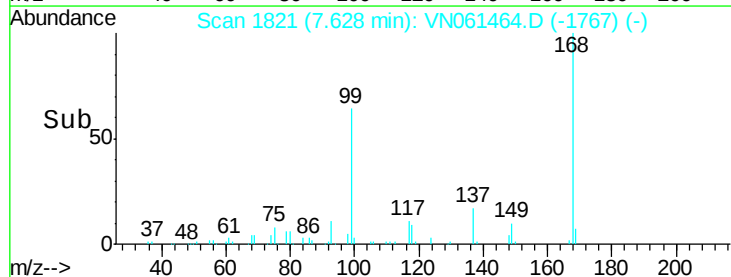
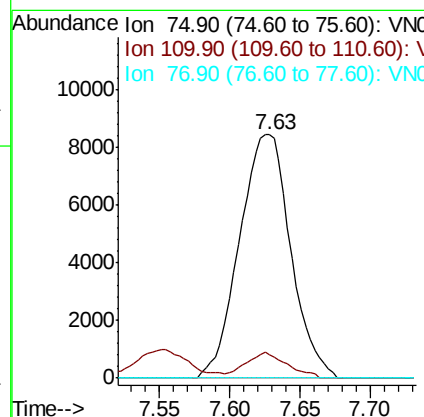
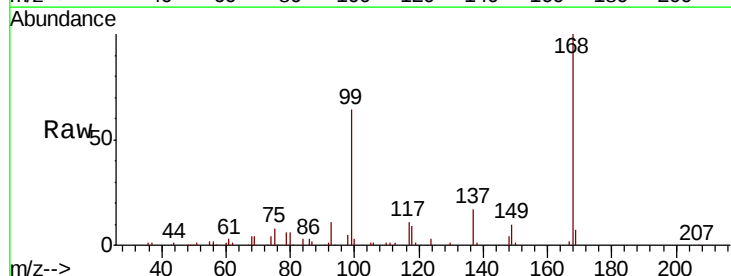
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-051320

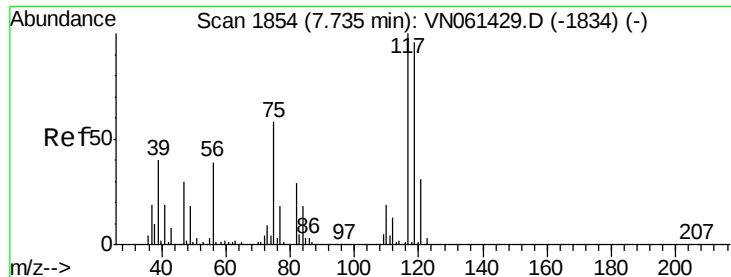
Tot Ion:113 Resp: 119036
 Ion Ratio Lower Upper
 113 100
 111 104.2 80.6 121.0
 192 17.9 13.2 19.8



#36
 1,1-Dichloropropene
 Concen: 5.014 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN061464.D
 Acq: 19 May 2020 6:56

Tgt Ion: 75 Resp: 21323
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.3 51.9#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

FB-051320

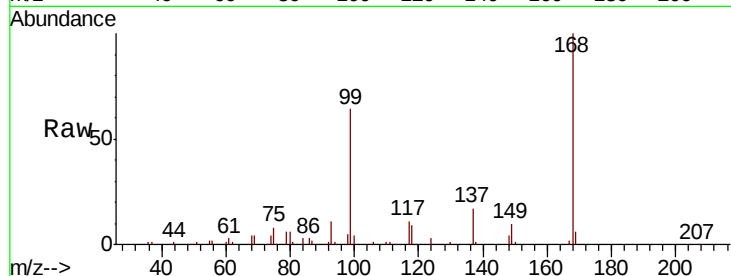
Tot Ion:117 Resp: 26510

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

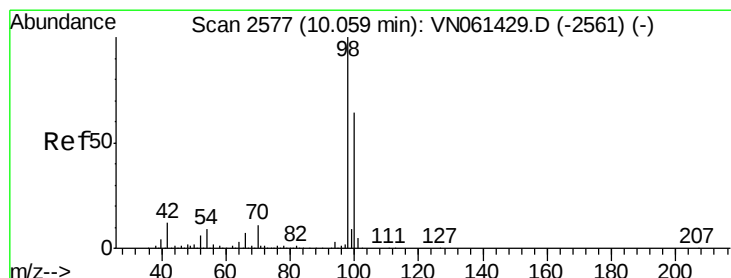
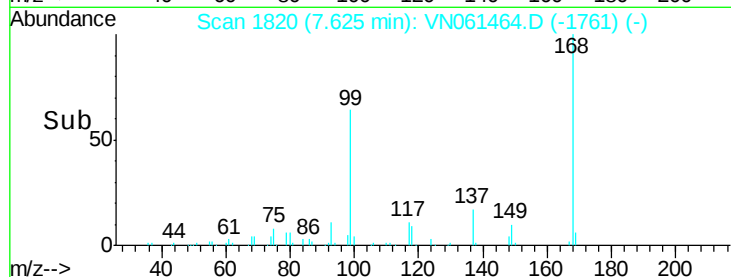
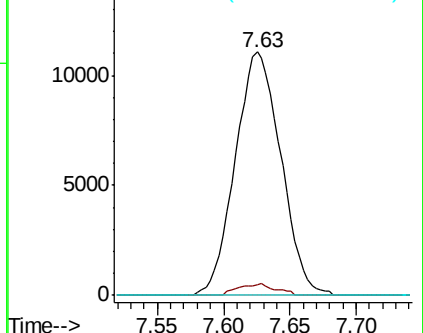
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 52.162 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN061464.D

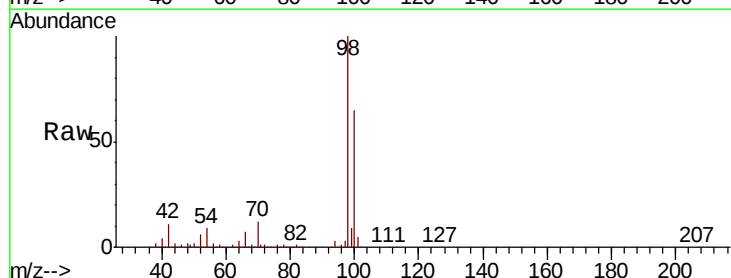
Acq: 19 May 2020 6:56

Tgt Ion: 98 Resp: 576493

Ion Ratio Lower Upper

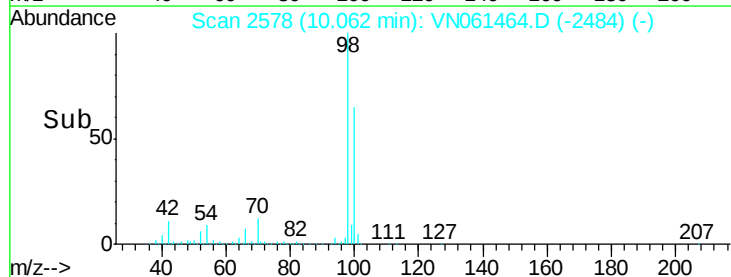
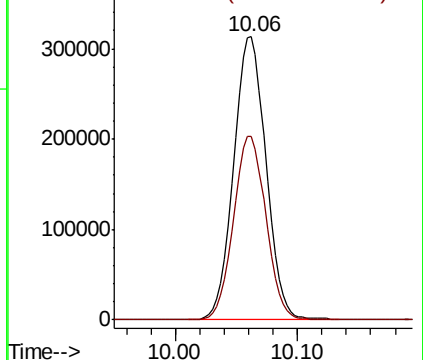
98 100

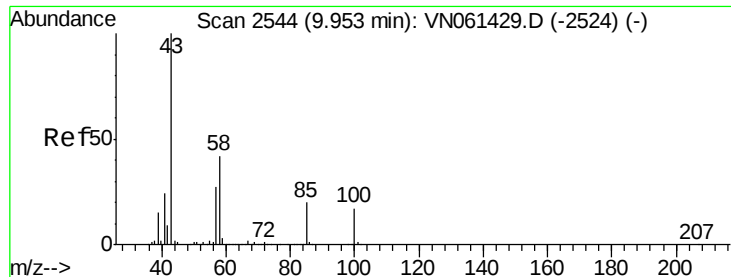
100 65.1 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.694 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

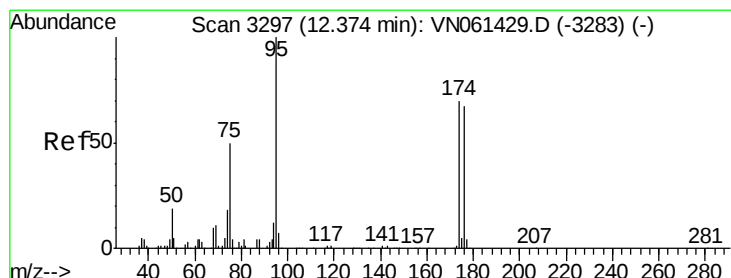
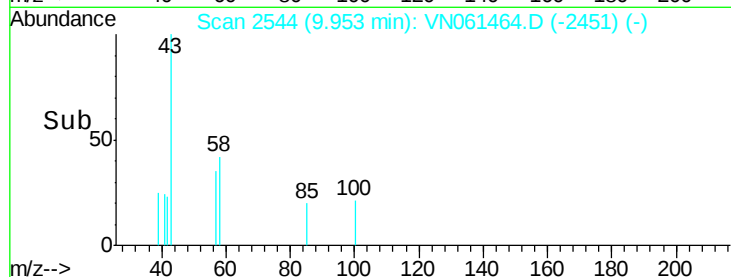
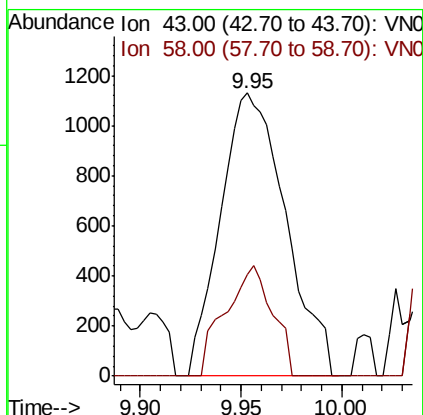
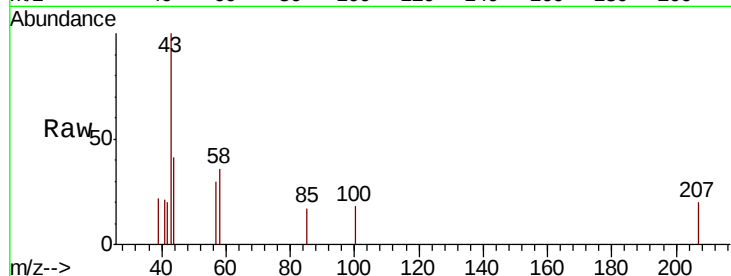
FB-051320

Tot Ion: 43 Resp: 2545

Ion Ratio Lower Upper

43 100

58 28.3 33.4 50.2#



#62

4-Bromofluorobenzene

Concen: 53.830 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

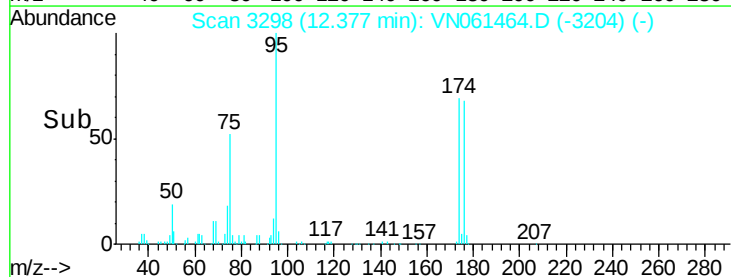
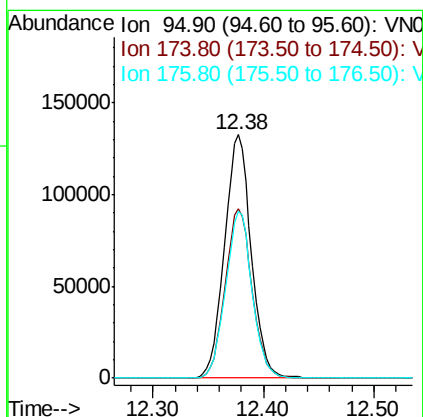
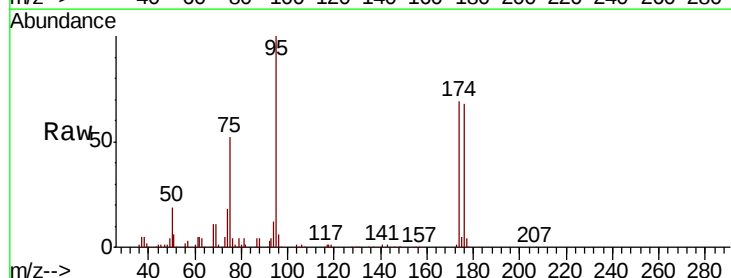
Tgt Ion: 95 Resp: 222272

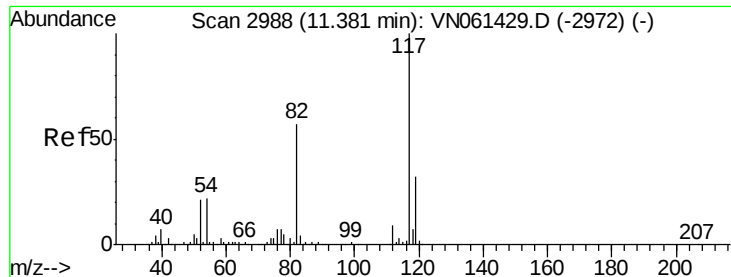
Ion Ratio Lower Upper

95 100

174 70.0 0.0 141.2

176 68.2 0.0 137.6

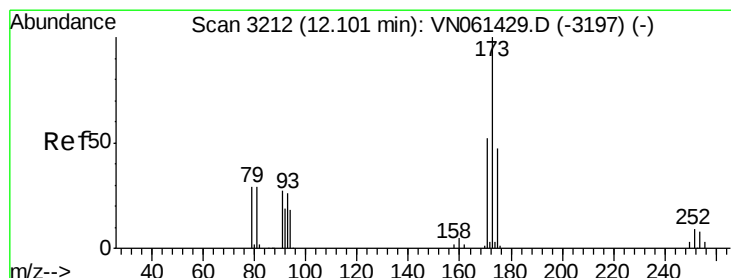
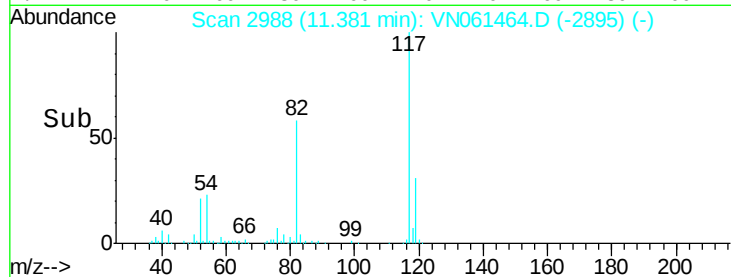
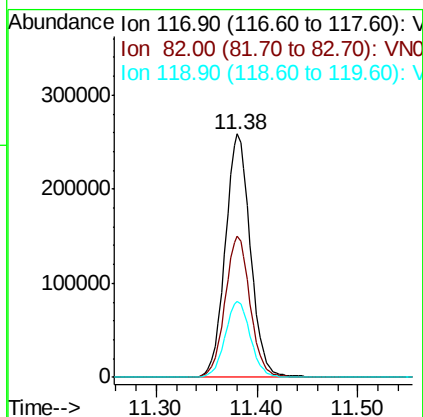
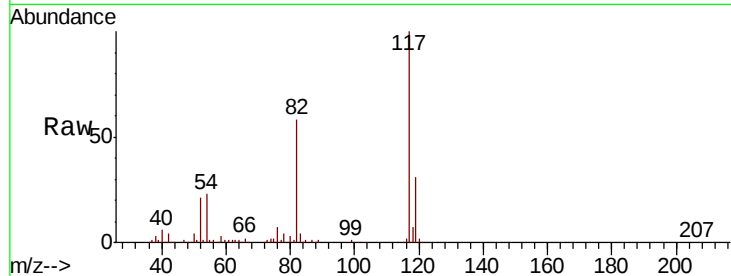




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

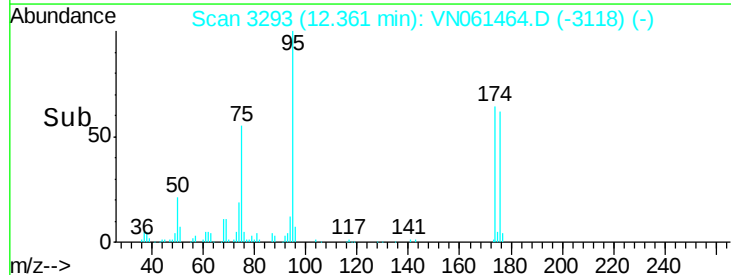
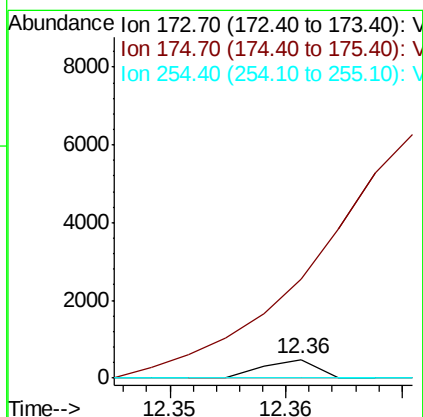
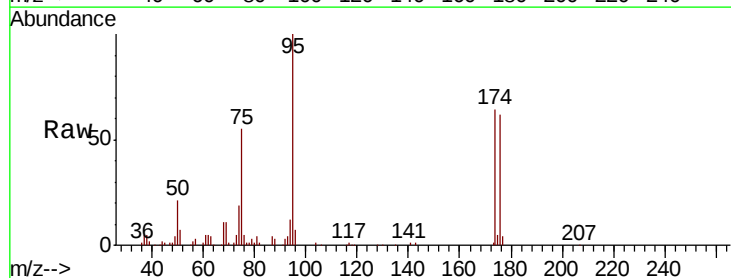
Instrument :
MSVOA_N
ClientSampleId :
FB-051320

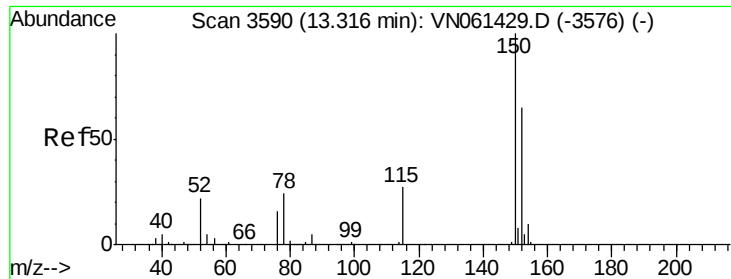
Tot Ion:117 Resp: 449803
Ion Ratio Lower Upper
117 100
82 58.0 45.2 67.8
119 31.2 25.3 37.9



#71
Bromoform
Concen: 2.076 ug/l
RT: 12.36 min Scan# 3293
Delta R.T. 0.26 min
Lab File: VN061464.D
Acq: 19 May 2020 6:56

Tgt Ion:173 Resp: 148
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

FB-051320

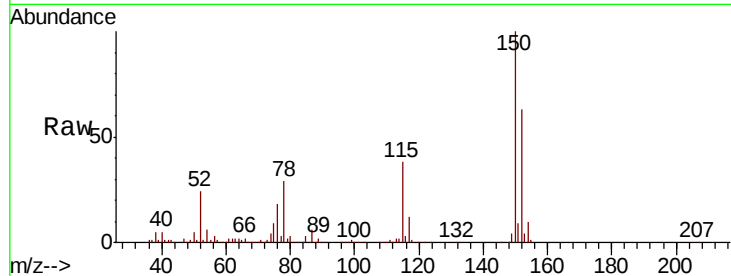
Tot Ion:152 Resp: 196316

Ion Ratio Lower Upper

152 100

115 61.3 30.9 92.5

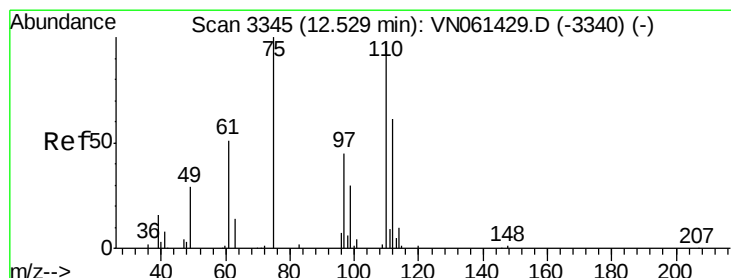
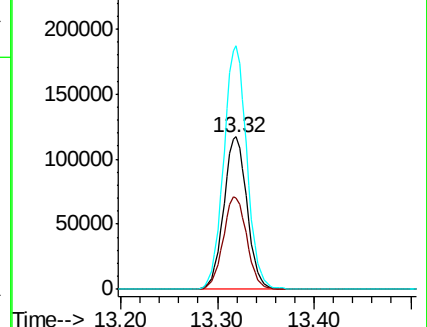
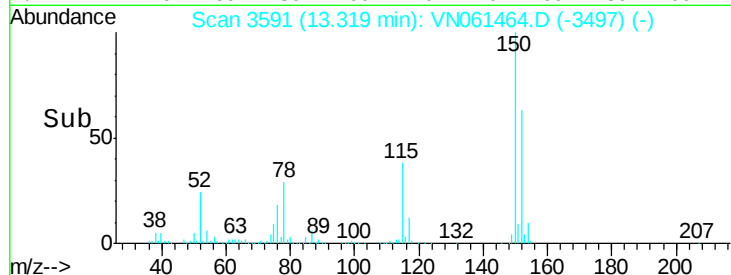
150 158.0 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 27.852 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061464.D

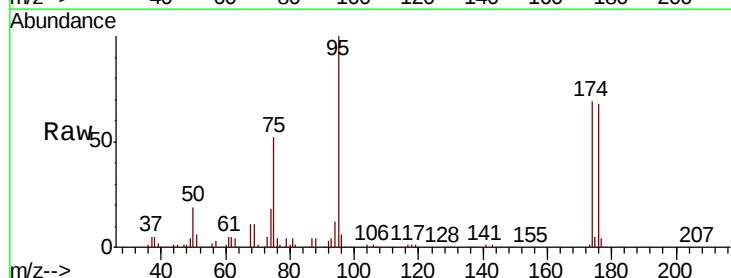
Acq: 19 May 2020 6:56

Tgt Ion: 75 Resp: 117325

Ion Ratio Lower Upper

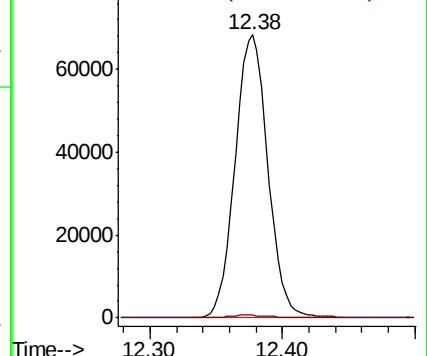
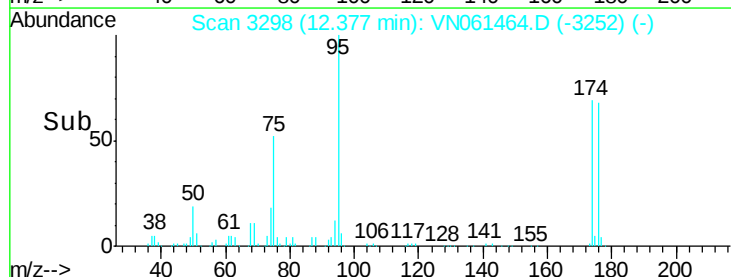
75 100

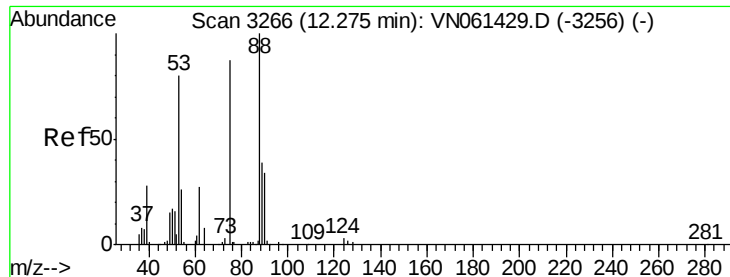
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.885 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA_N

ClientSampleId :

FB-051320

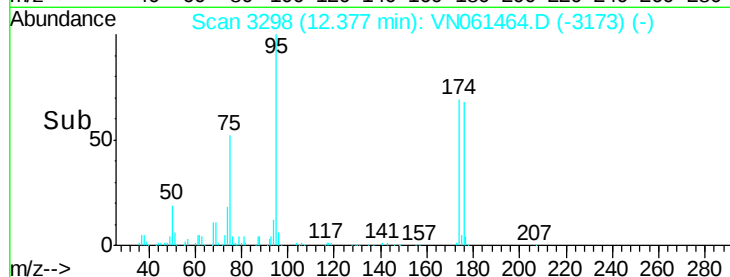
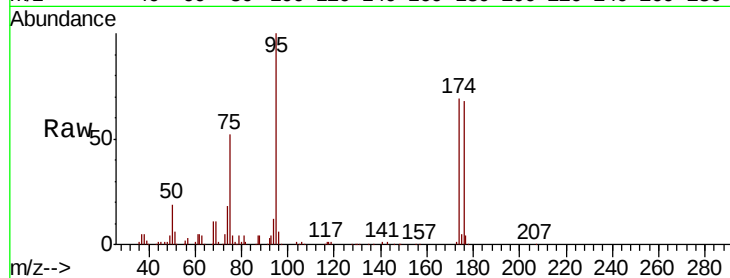
Tot Ion: 75 Resp: 117325

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

