

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061527.D
 Acq On : 21 May 2020 13:54
 Operator : JC/MD
 Sample : PB129027ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 22 07:14:51 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	288017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	525770	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	533641	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	228043	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	192191	44.71	ug/l	0.00
Spiked Amount			Recovery	=	89.42%	
35) Dibromofluoromethane	7.55	113	143268	52.01	ug/l	0.00
Spiked Amount			Recovery	=	104.02%	
50) Toluene-d8	10.06	98	662481	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
62) 4-Bromofluorobenzene	12.37	95	251099	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	

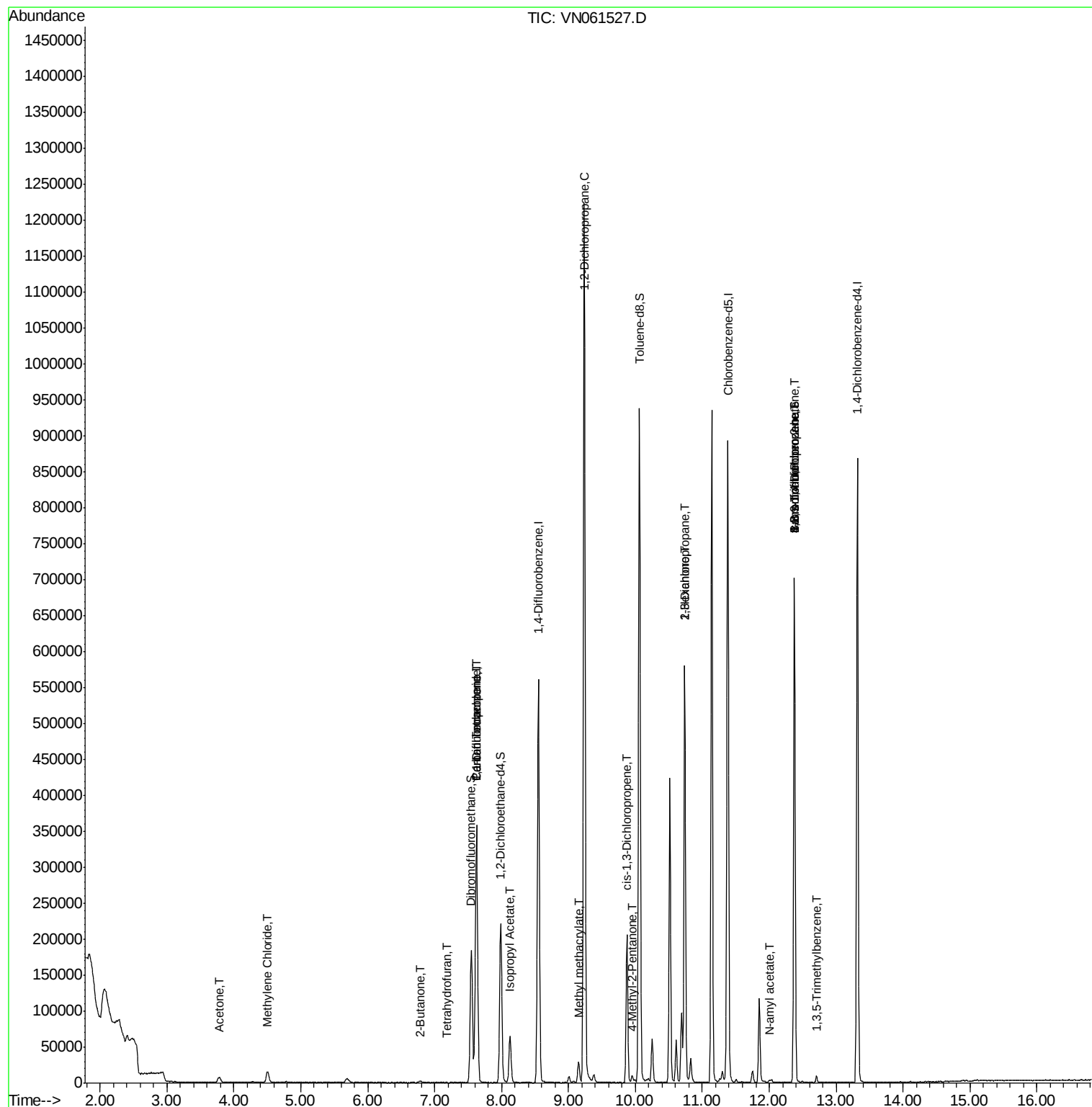
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	520	Below Cal	#	67
16) Acetone	3.78	43	13693	1.059	ug/l	97
17) Carbon Disulfide	4.00	76	408	Below Cal	#	75
18) Methyl Acetate	4.29	43	1896	Below Cal	#	74
20) Methylene Chloride	4.50	84	12339	3.493	ug/l	89
25) 2-Butanone	6.80	43	2411	1.232	ug/l	98
29) Tetrahydrofuran	7.18	42	274	0.211	ug/l #	29
31) Cyclohexane	7.63	56	6046	Below Cal	#	18
36) 1,1-Dichloropropene	7.63	75	22408	4.558	ug/l #	51
38) Carbon Tetrachloride	7.63	117	29904	6.606	ug/l #	15
43) Isopropyl Acetate	8.13	43	74075	9.526	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1595	0.430	ug/l #	43
48) Methyl methacrylate	9.14	41	3476	0.968	ug/l #	9
51) 4-Methyl-2-Pentanone	9.95	43	5055	1.193	ug/l #	86
54) cis-1,3-Dichloropropene	9.87	75	40299	6.315	ug/l #	60
57) 1,3-Dichloropropane	10.73	76	6694	1.077	ug/l #	42
59) 2-Hexanone	10.73	43	74770	24.397	ug/l #	51
71) Bromoform	12.37	173	1651	2.542	ug/l #	1
74) N-amyl acetate	12.00	43	3075	0.459	ug/l #	41
76) 1,2,3-Trichloropropane	12.37	75	125647	25.678	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4588	0.306	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	125647	68.117	ug/l #	12

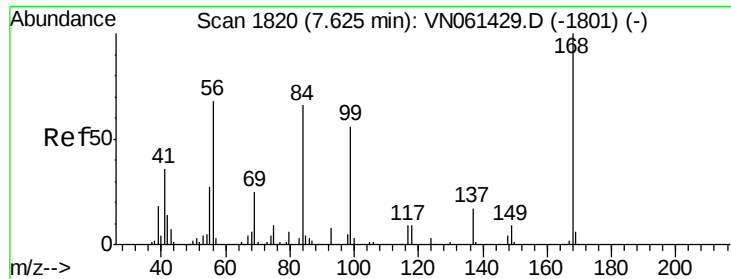
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061527.D

Acq: 21 May 2020 13:54

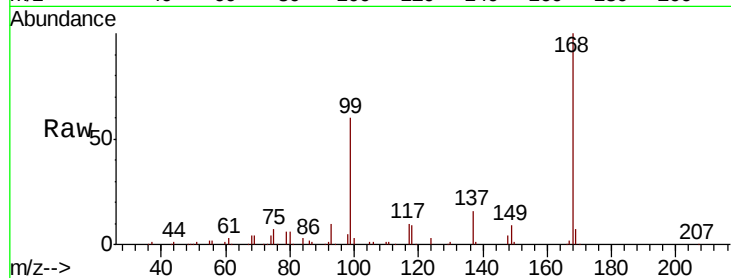
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 288017

Ion Ratio Lower Upper

168 100

99 59.7 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

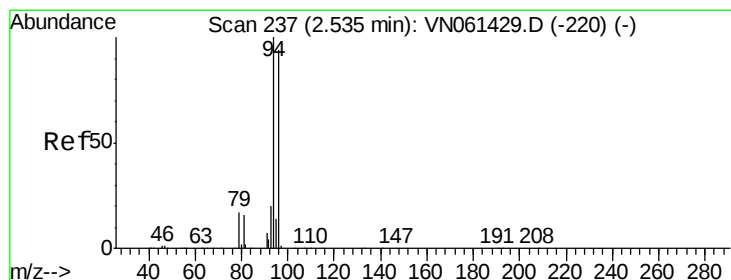
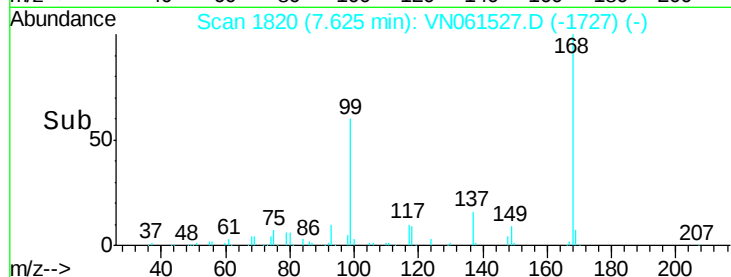
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061527.D

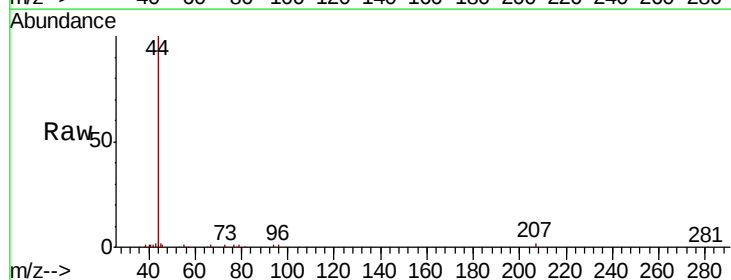
Acq: 21 May 2020 13:54

Tgt Ion: 94 Resp: 520

Ion Ratio Lower Upper

94 100

96 62.1 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

500

400

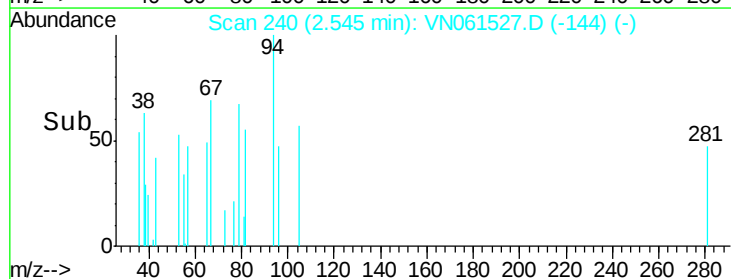
300

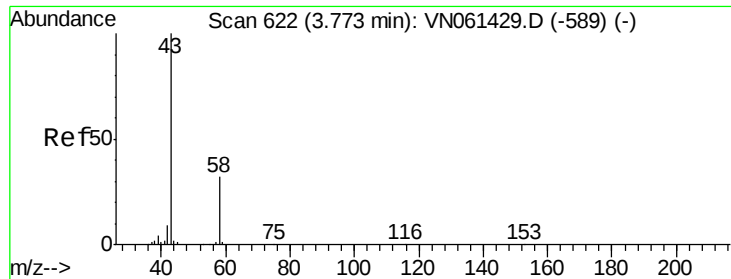
200

100

0

Time--> 2.52 2.54 2.56 2.58





#16

Acetone

Concen: 1.059 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :

MSVOA_N

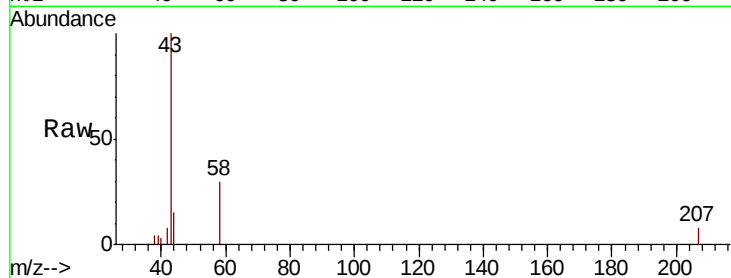
ClientSampled :

Tot Ion: 43 Resp: 13693

Ion Ratio Lower Upper

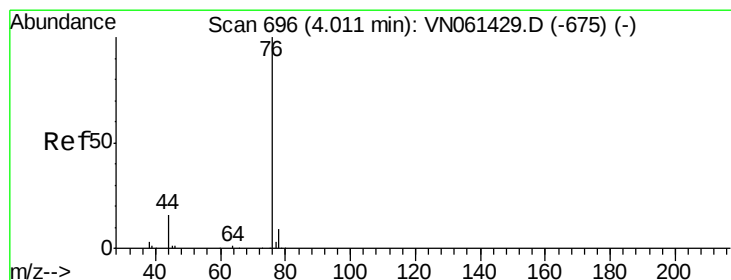
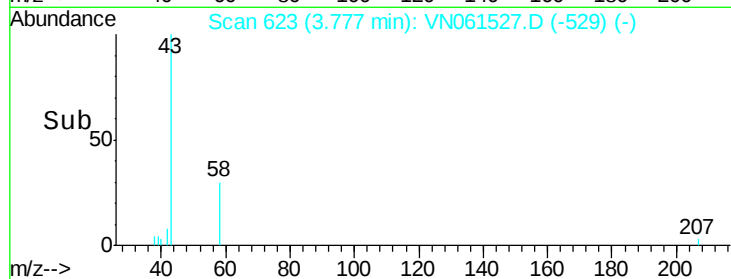
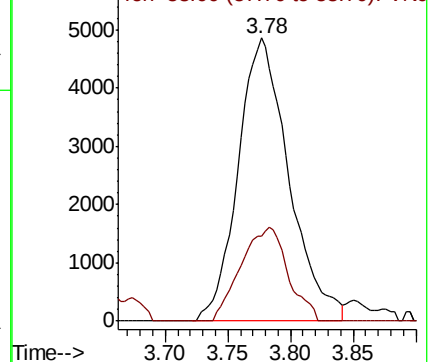
43 100

58 30.2 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# 694

Delta R.T. -0.01 min

Lab File: VN061527.D

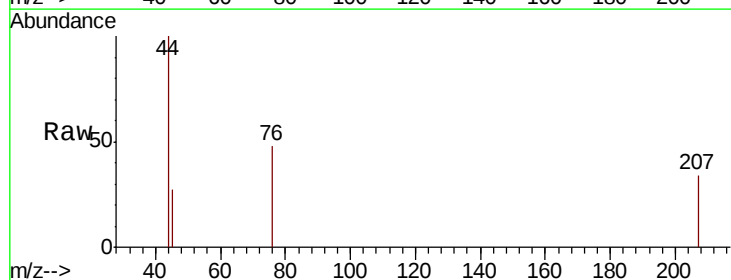
Acq: 21 May 2020 13:54

Tgt Ion: 76 Resp: 408

Ion Ratio Lower Upper

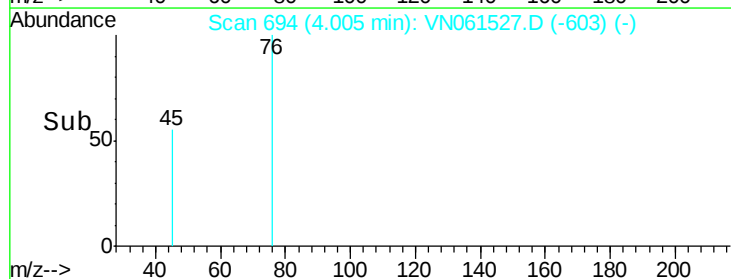
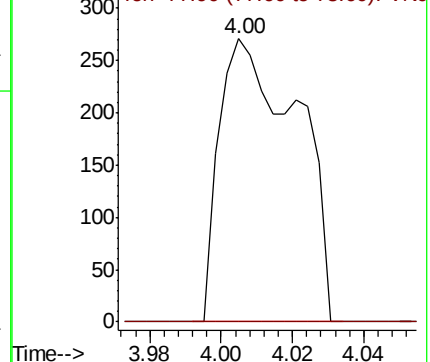
76 100

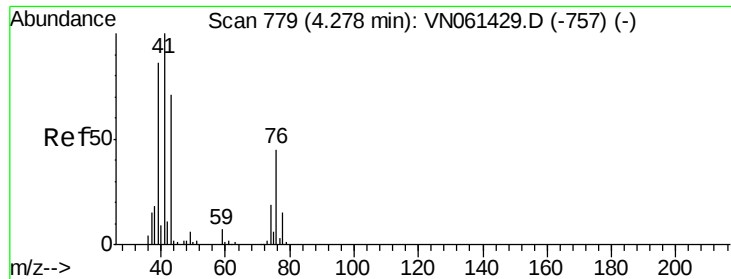
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

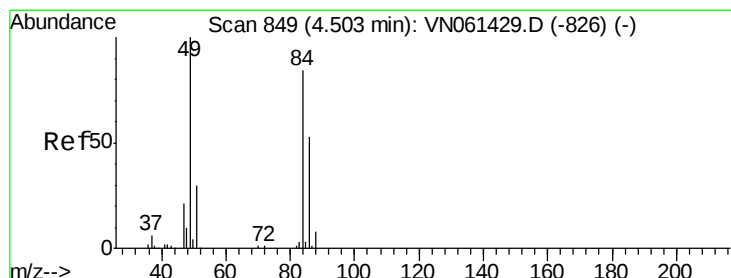
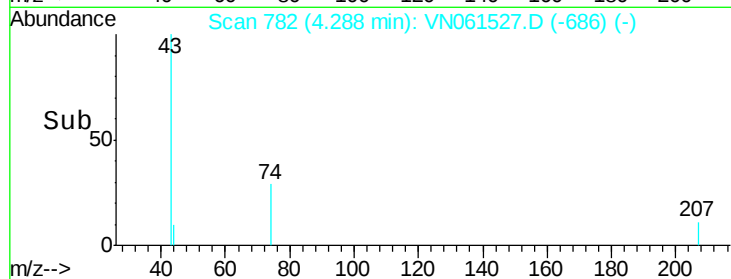
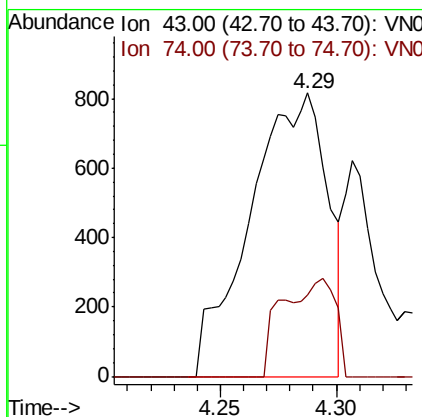
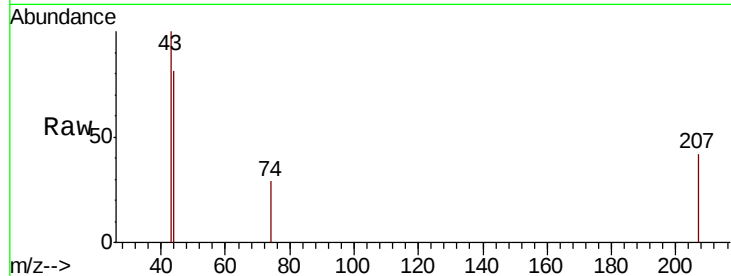




#18
Methyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

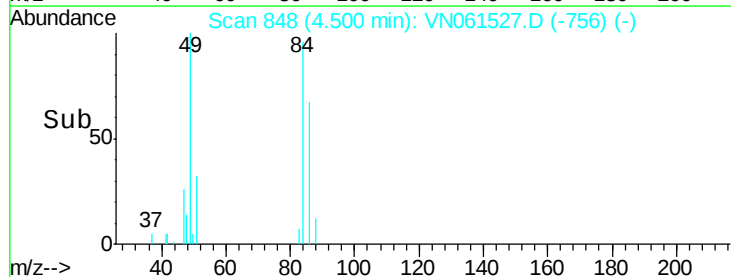
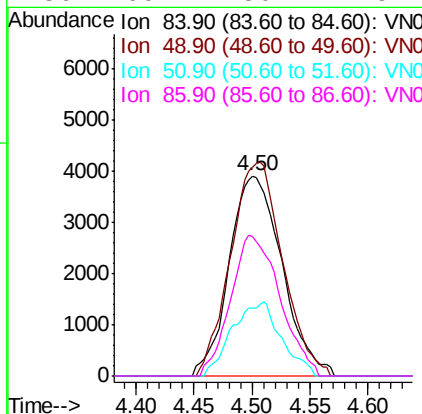
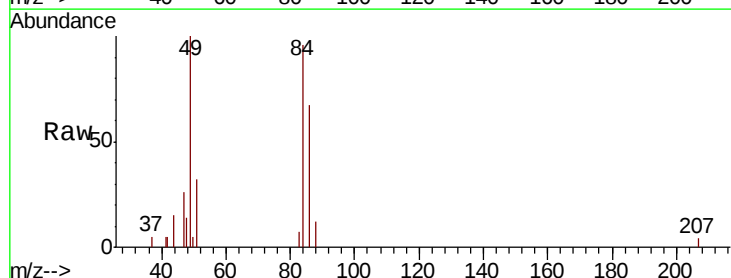
Instrument :
MSVOA_N
ClientSampleId :

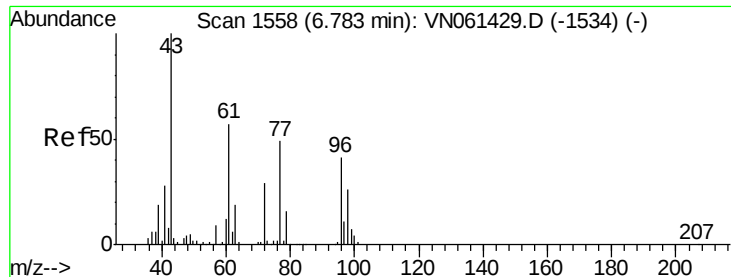
Tot Ion: 43 Resp: 1896
Ion Ratio Lower Upper
43 100
74 12.5 20.8 31.2#



#20
Methylene Chloride
Concen: 3.493 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Tgt Ion: 84 Resp: 12339
Ion Ratio Lower Upper
84 100
49 104.3 95.3 142.9
51 33.7 29.0 43.6
86 69.7 50.2 75.2





#25

2-Butanone

Concen: 1.232 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

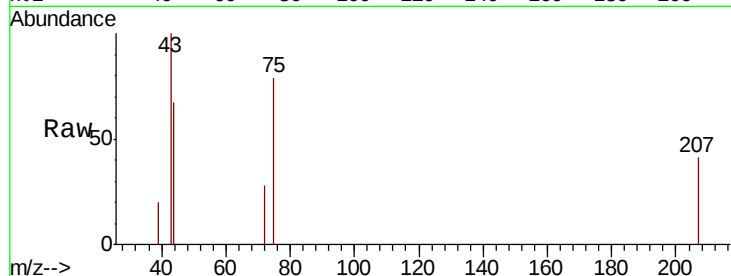
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2411

Ion Ratio Lower Upper

43 100

72 27.7 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-1534) (-)

Ion 72.00 (71.70 to 72.70): VN061429.D (-1534) (-)

6.80

800

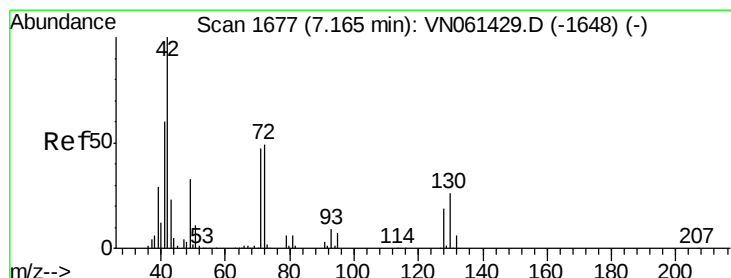
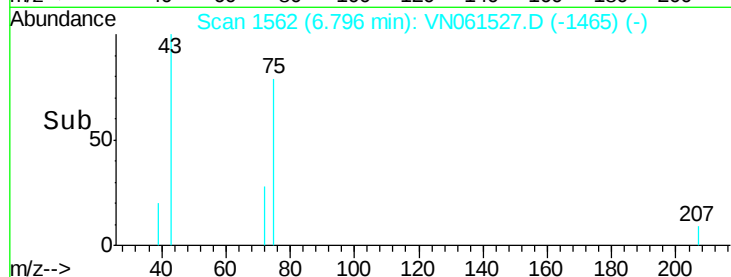
600

400

200

0

Time--> 6.70 6.75 6.80 6.85



#29

Tetrahydrofuran

Concen: 0.211 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.02 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

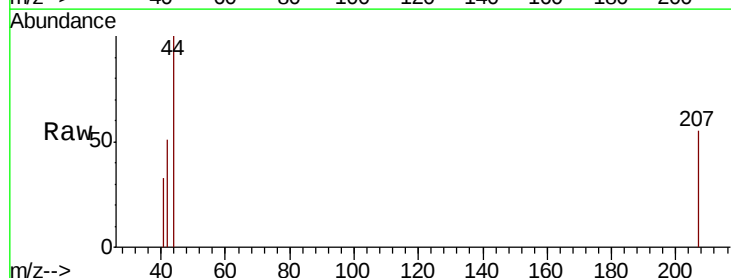
Tgt Ion: 42 Resp: 274

Ion Ratio Lower Upper

42 100

72 0.0 39.0 58.6#

71 0.0 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VN061429.D (-1648) (-)

Ion 72.00 (71.70 to 72.70): VN061429.D (-1648) (-)

Ion 71.00 (70.70 to 71.70): VN061429.D (-1648) (-)

300

250

200

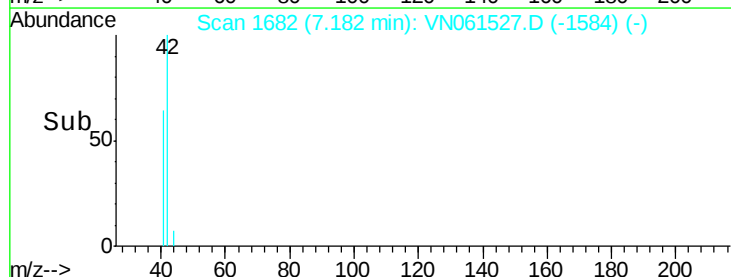
150

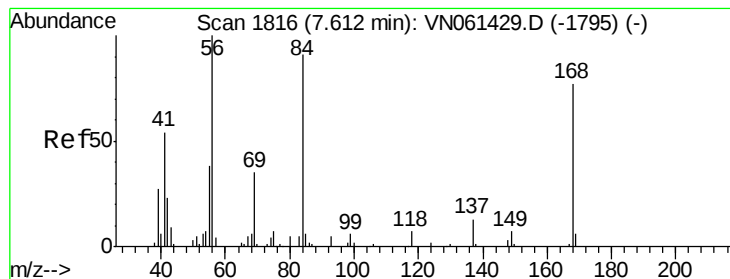
100

50

0

Time--> 7.16 7.18 7.20





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

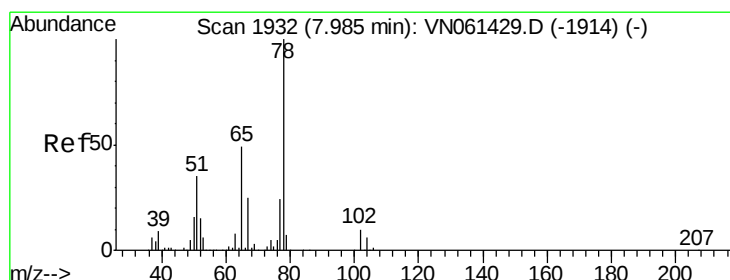
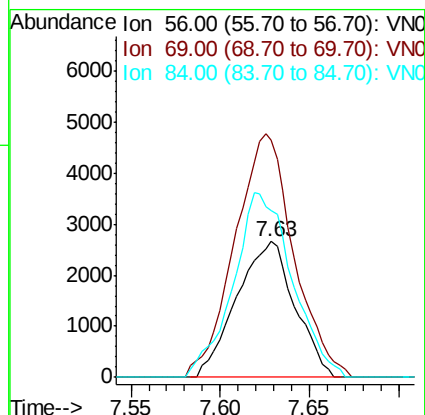
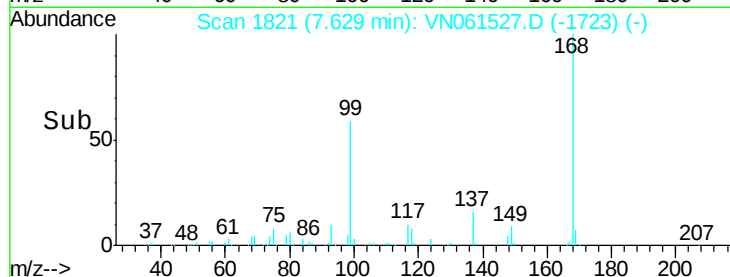
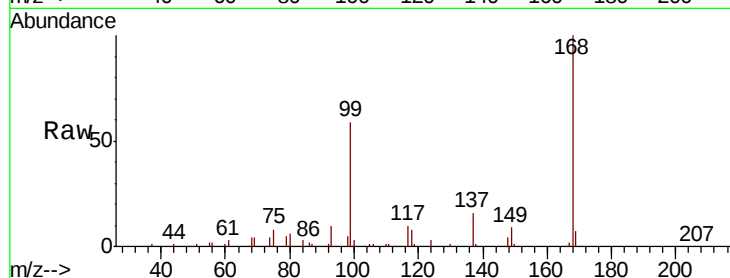
Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6046

Ion	Ratio	Lower	Upper
56	100		
69	165.6	27.8	41.6#
84	117.0	72.7	109.1#



#33

1,2-Dichloroethane-d4

Concen: 44.711 ug/l

RT: 7.99 min Scan# 1933

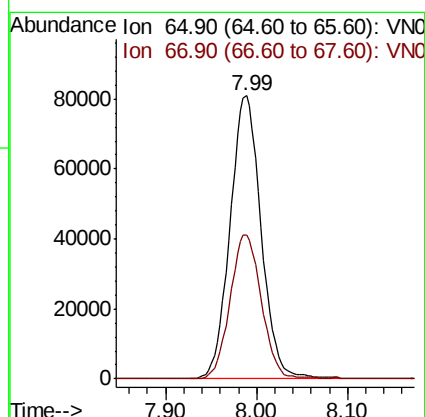
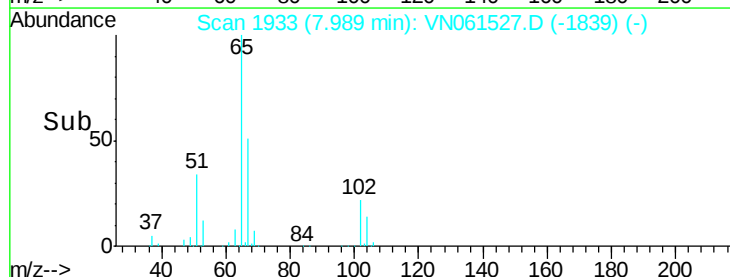
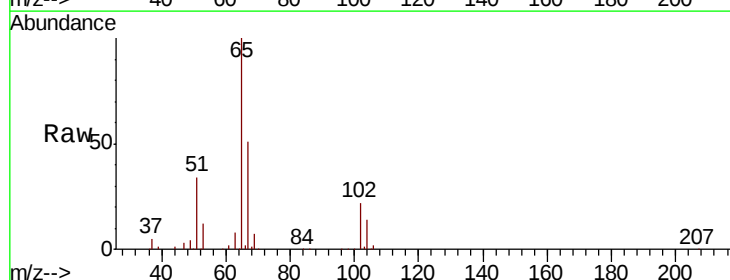
Delta R.T. 0.00 min

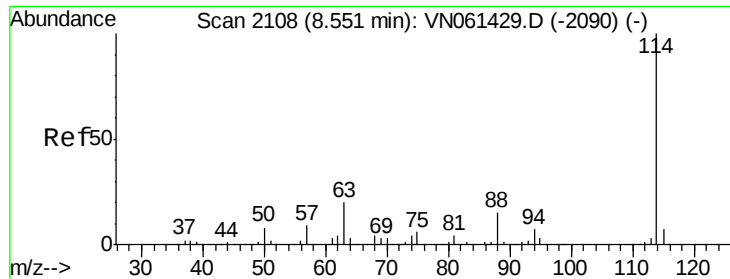
Lab File: VN061527.D

Acq: 21 May 2020 13:54

Tgt Ion: 65 Resp: 192191

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	101.4

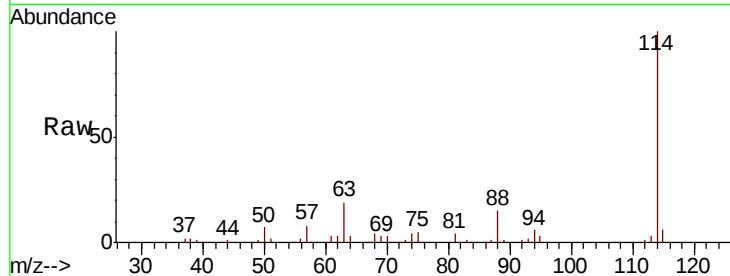




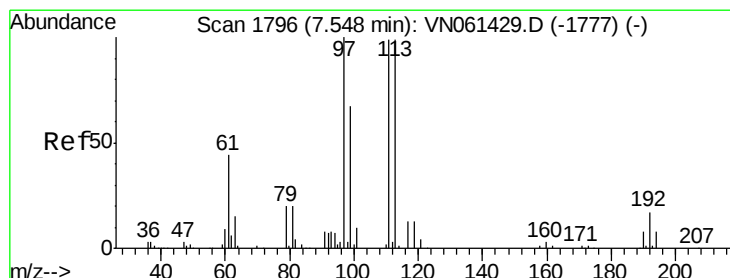
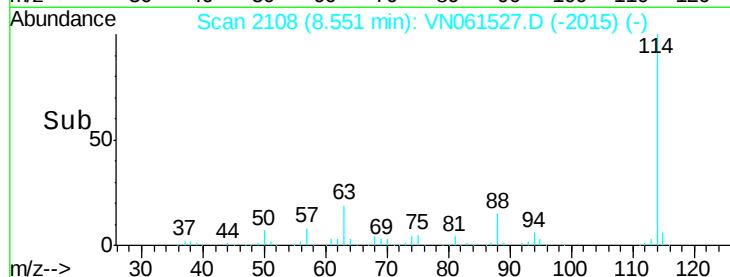
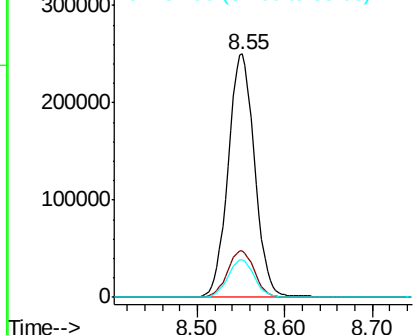
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061527.D
 Acq: 21 May 2020 13:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 525770
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 40.8
 88 15.4 0.0 30.8

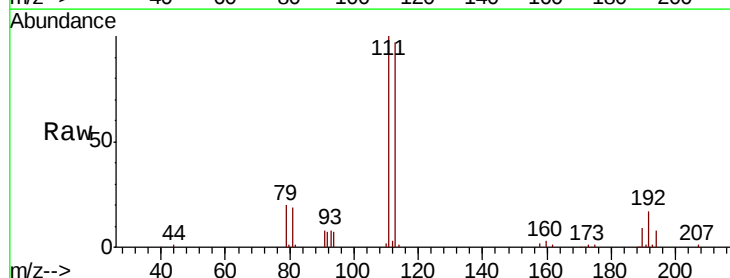


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

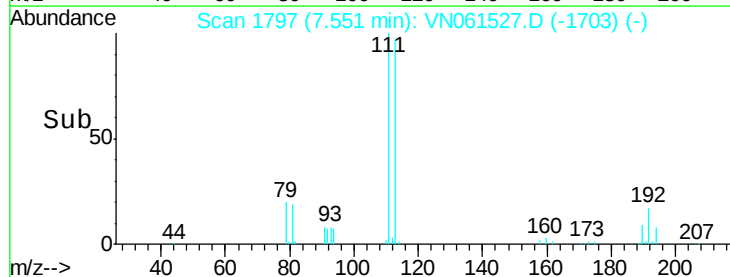
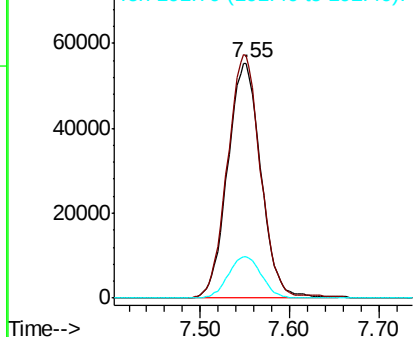


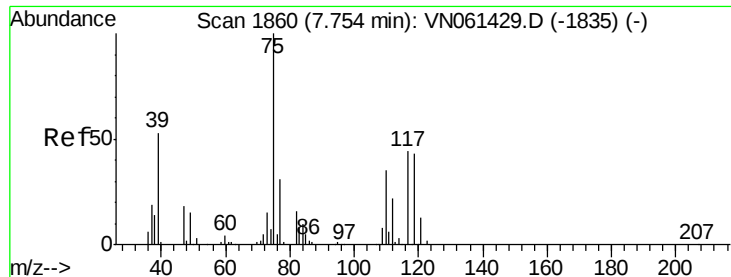
#35
 Dibromofluoromethane
 Concen: 52.015 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061527.D
 Acq: 21 May 2020 13:54

Tgt Ion:113 Resp: 143268
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.6 121.0
 192 17.6 13.2 19.8



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





#36

1,1-Dichloropropene

Concen: 4.558 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.13 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

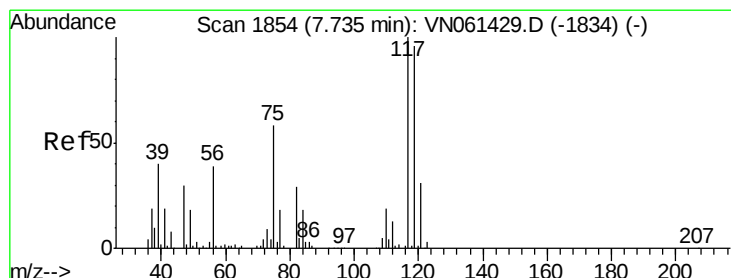
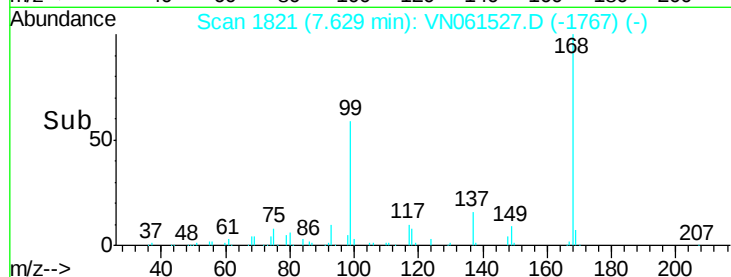
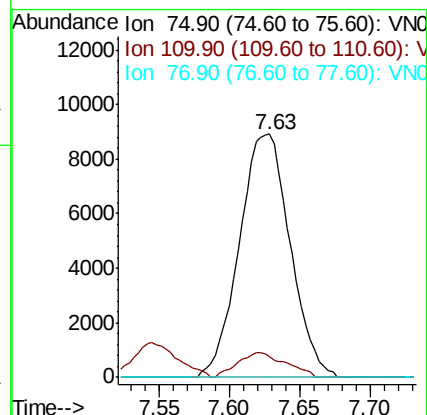
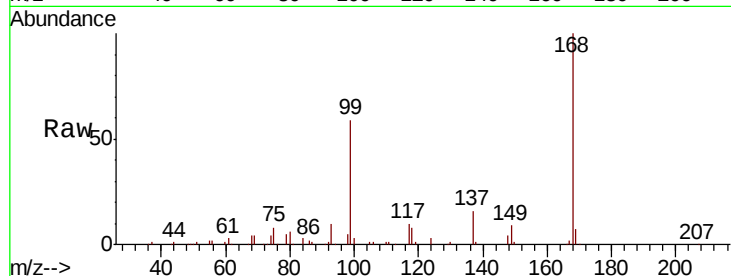
Tot Ion: 75 Resp: 22408

Ion Ratio Lower Upper

75 100

110 9.6 17.3 51.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.606 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

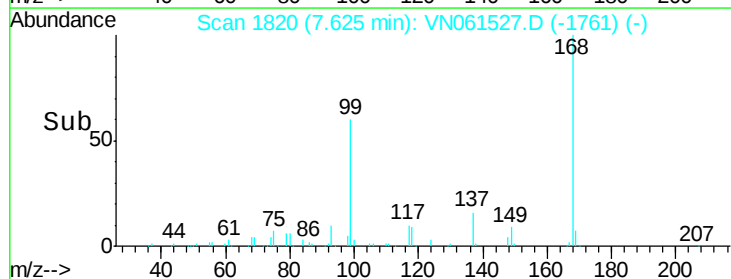
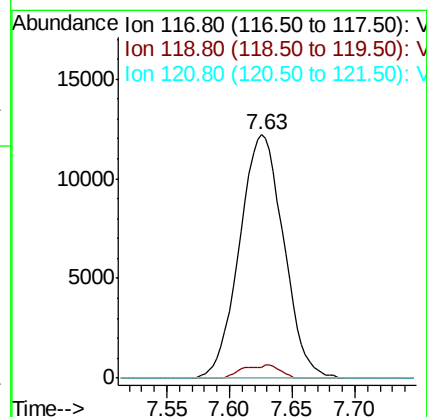
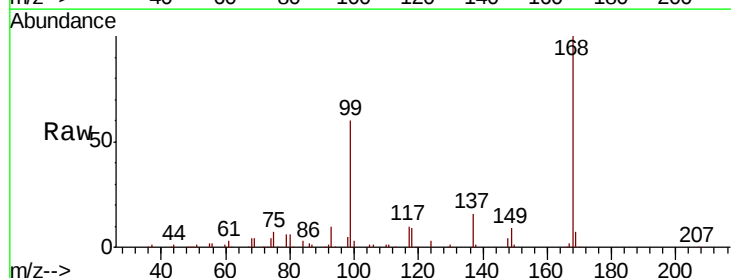
Tgt Ion: 117 Resp: 29904

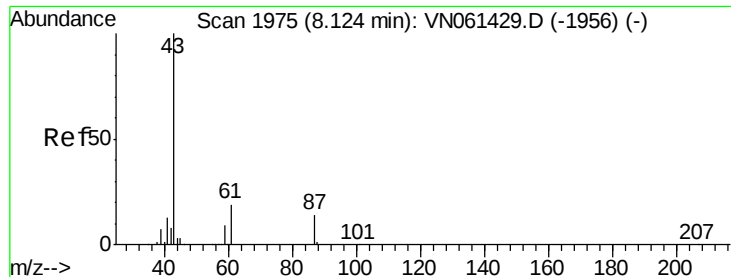
Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.6#

121 0.0 24.7 37.1#

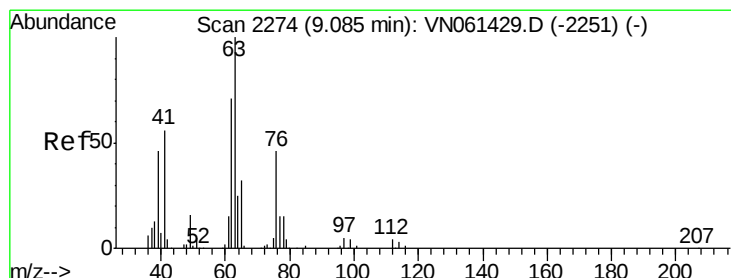
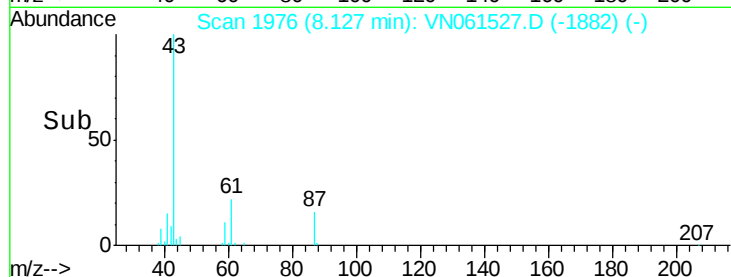
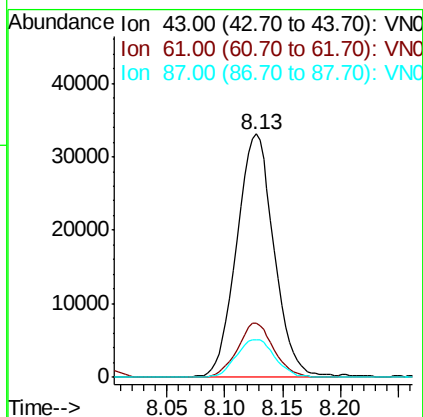
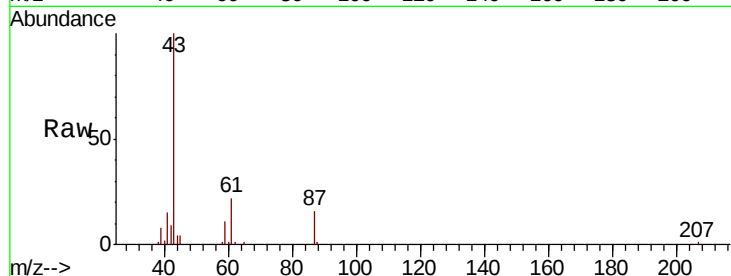




#43
Isopropyl Acetate
Concen: 9.526 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

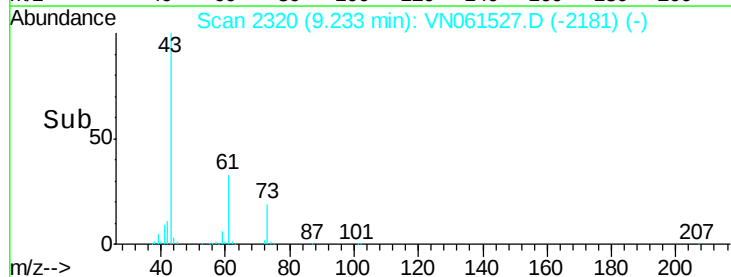
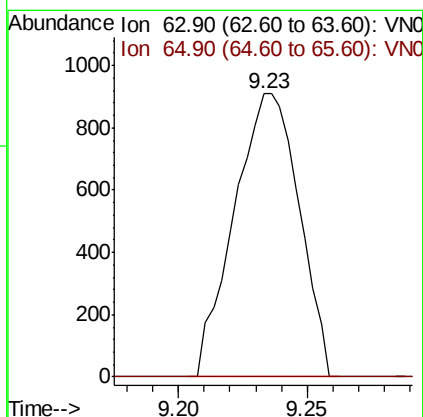
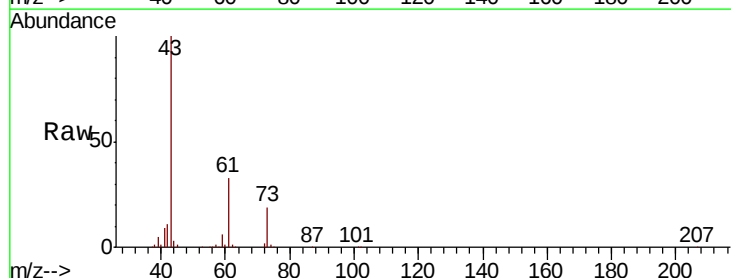
Instrument :
MSVOA_N
ClientSampleId :

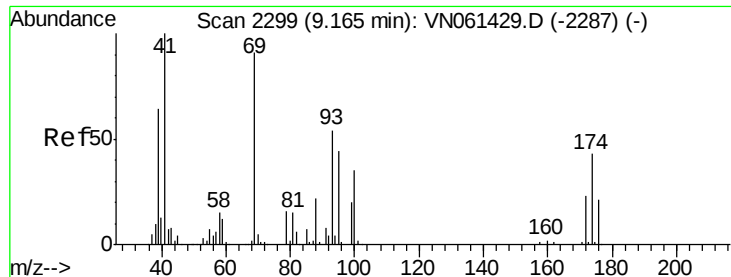
Tot Ion: 43 Resp: 74075
Ion Ratio Lower Upper
43 100
61 21.6 23.0 34.4#
87 15.9 11.6 17.4



#45
1,2-Dichloropropane
Concen: 0.430 ug/l
RT: 9.23 min Scan# 2320
Delta R.T. 0.15 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Tgt Ion: 63 Resp: 1595
Ion Ratio Lower Upper
63 100
65 0.0 25.2 37.8#

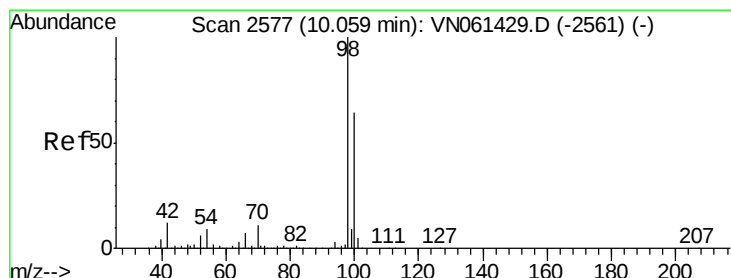
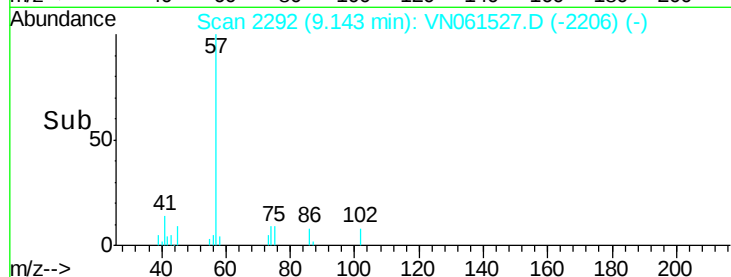
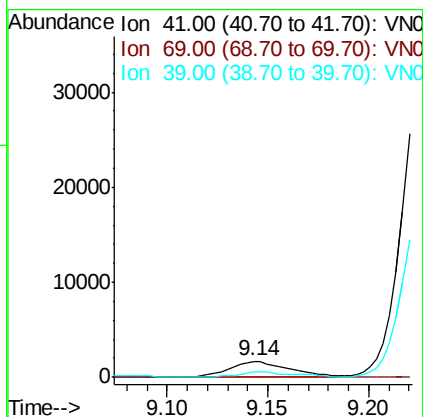
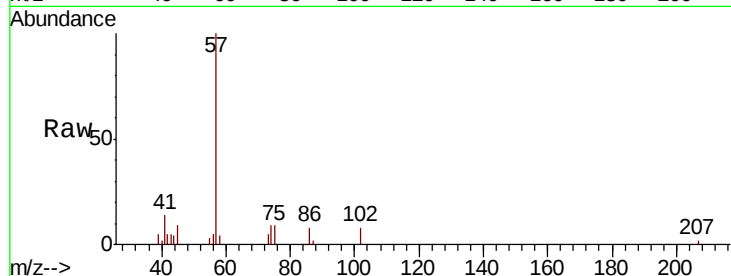




#48
Methvl methacrylate
Concen: 0.968 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

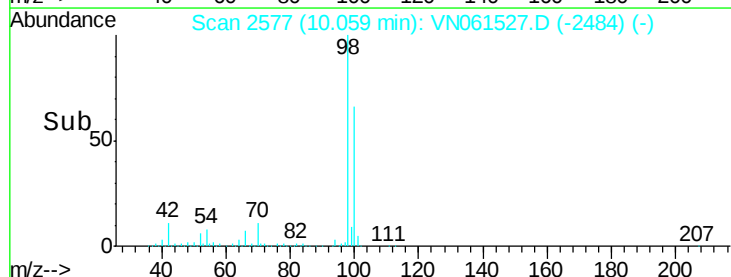
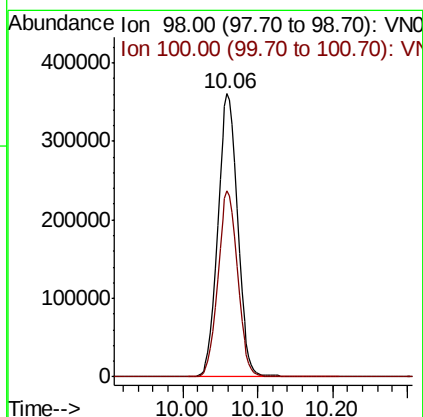
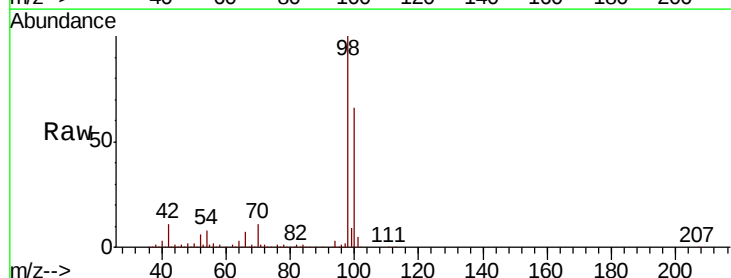
Instrument :
MSVOA_N
ClientSampleId :

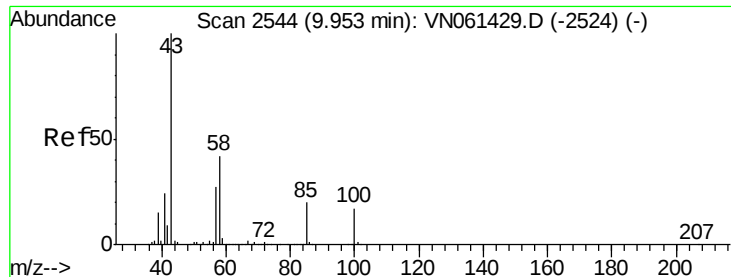
Tot Ion: 41 Resp: 3476
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#50
Toluene-d8
Concen: 51.856 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Tgt Ion: 98 Resp: 662481
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.193 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :

MSVOA_N

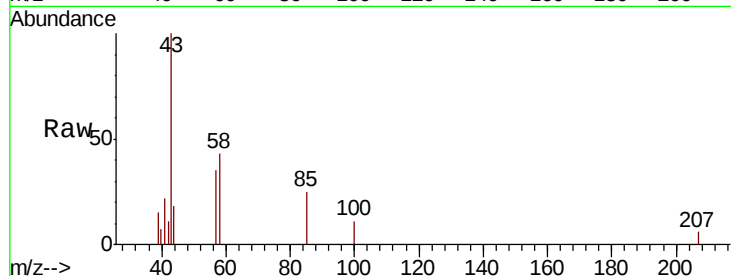
ClientSampleId :

Tot Ion: 43 Resp: 5055

Ion Ratio Lower Upper

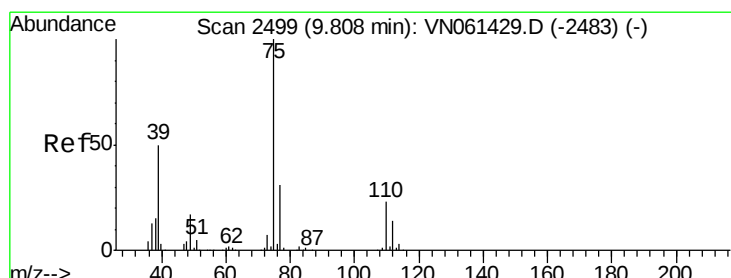
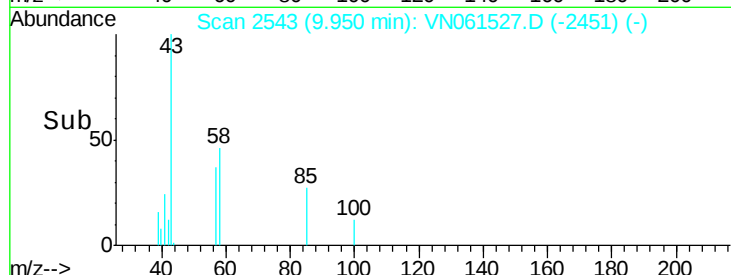
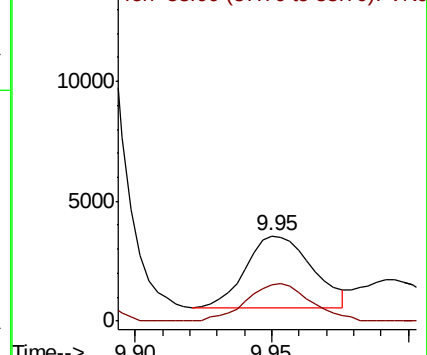
43 100

58 50.8 33.4 50.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.315 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

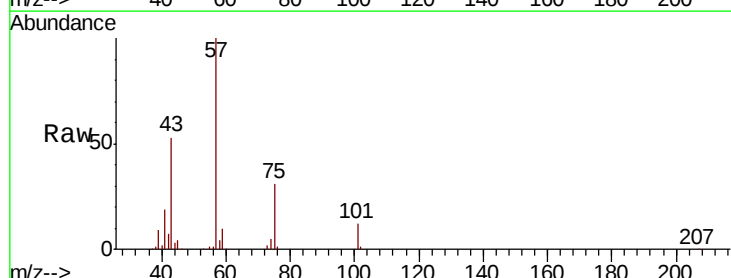
Tgt Ion: 75 Resp: 40299

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

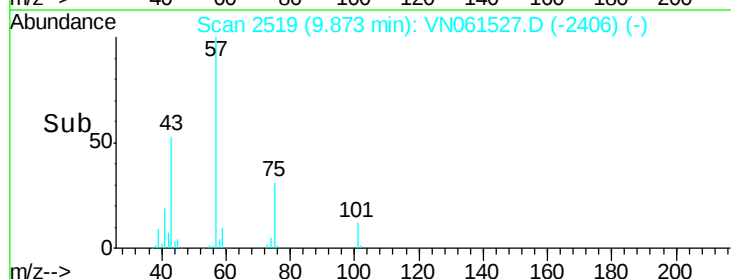
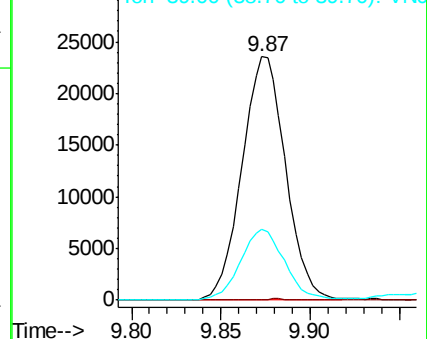
39 29.2 39.8 59.6#

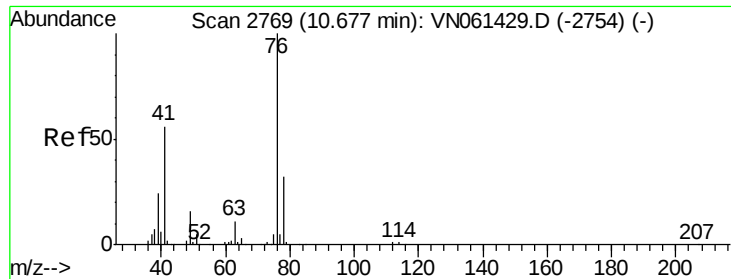


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

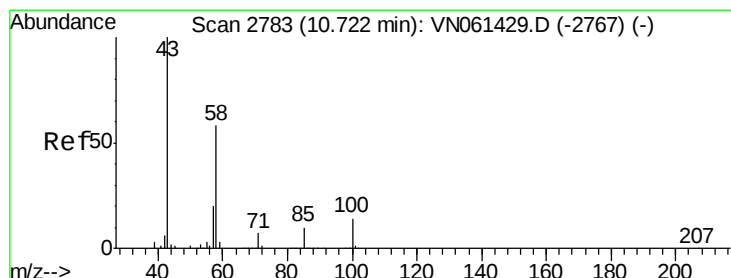
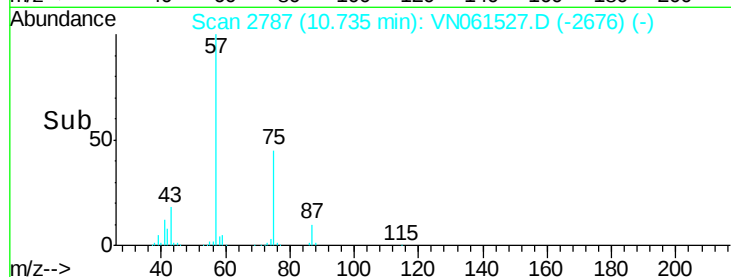
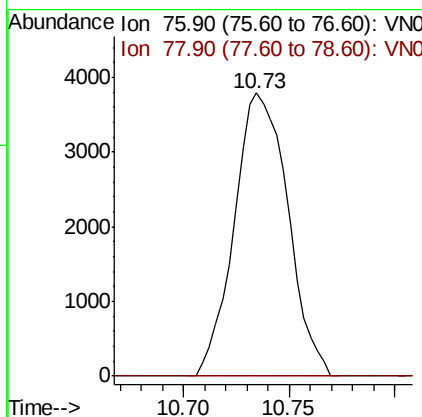
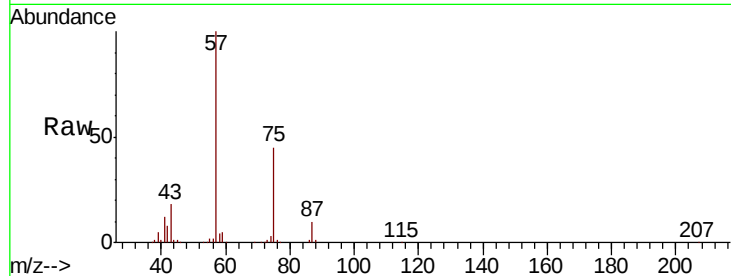




#57
 1,3-Dichloropropane
 Concen: 1.077 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061527.D
 Acq: 21 May 2020 13:54

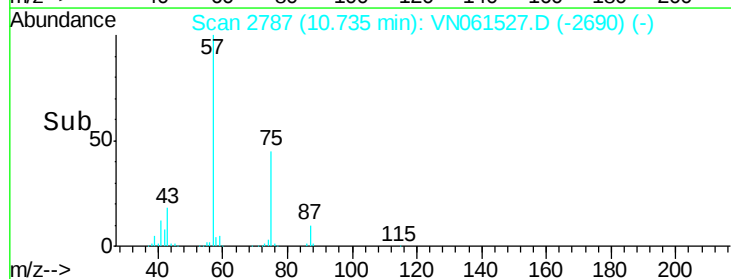
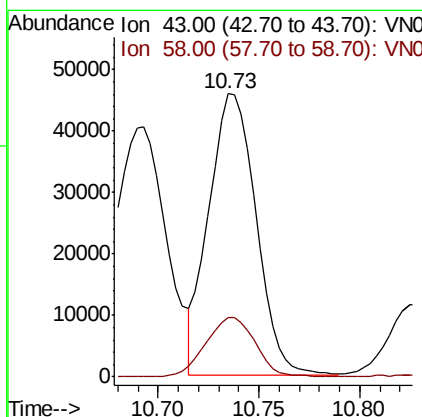
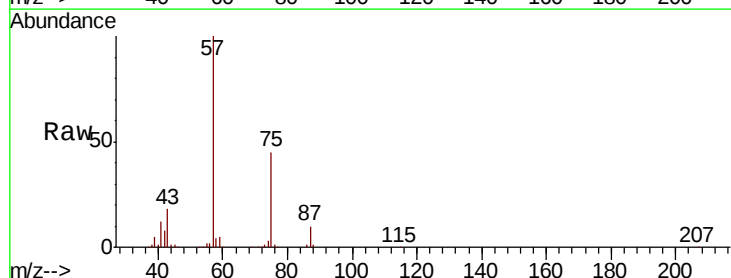
Instrument :
 MSVOA_N
 ClientSampleId :

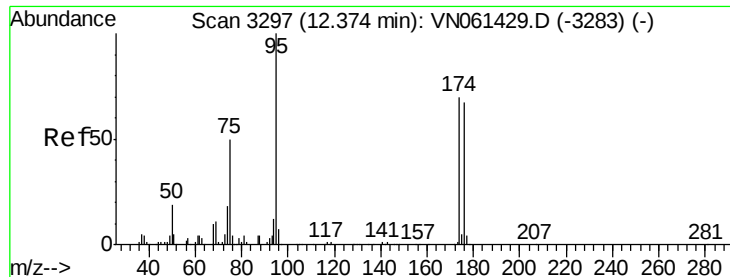
Tot Ion: 76 Resp: 6694
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 24.397 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.01 min
 Lab File: VN061527.D
 Acq: 21 May 2020 13:54

Tgt Ion: 43 Resp: 74770
 Ion Ratio Lower Upper
 43 100
 58 22.1 29.2 87.6#





#62

4-Bromofluorobenzene

Concen: 52.608 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :

MSVOA_N

ClientSampled :

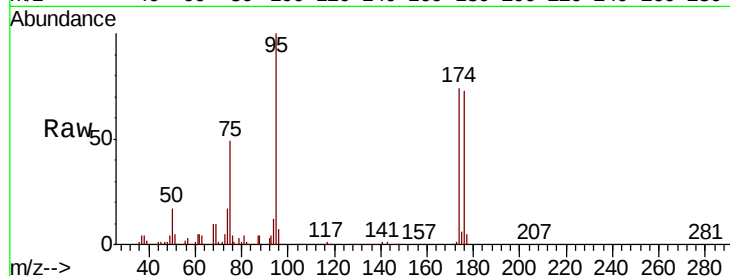
Tot Ion: 95 Resp: 251099

Ion Ratio Lower Upper

95 100

174 75.7 0.0 141.2

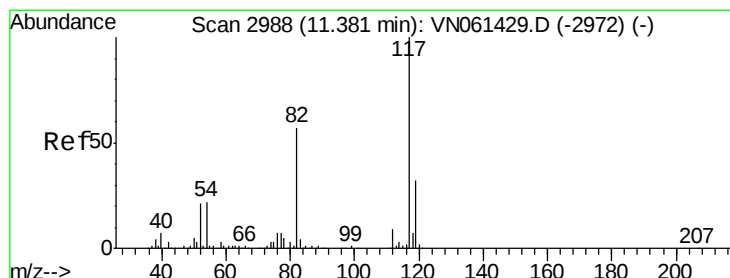
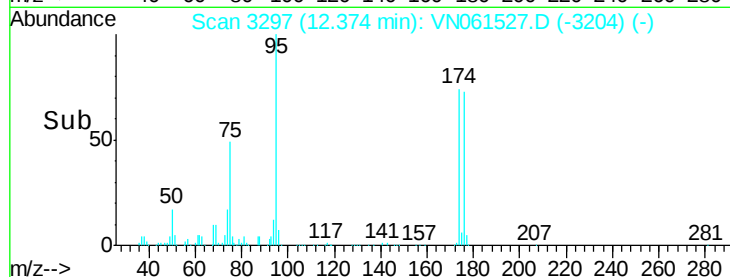
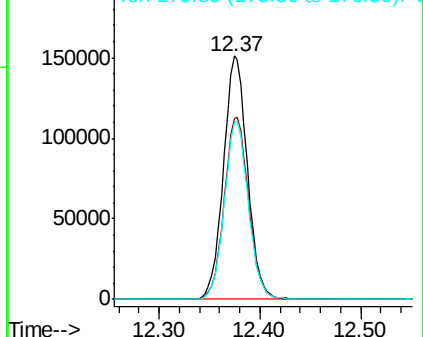
176 73.2 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN061527.D (-3204) (-)

Ion 173.80 (173.50 to 174.50): VN061527.D (-3204) (-)

Ion 175.80 (175.50 to 176.50): VN061527.D (-3204) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

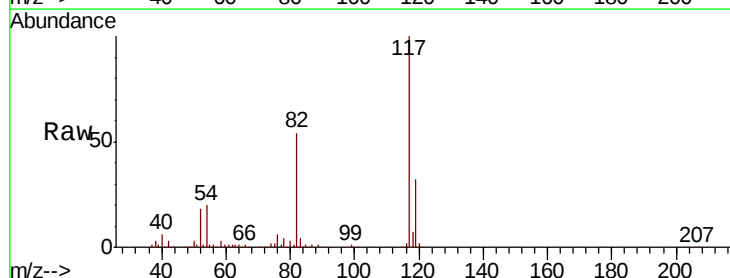
Tgt Ion: 117 Resp: 533641

Ion Ratio Lower Upper

117 100

82 54.1 45.2 67.8

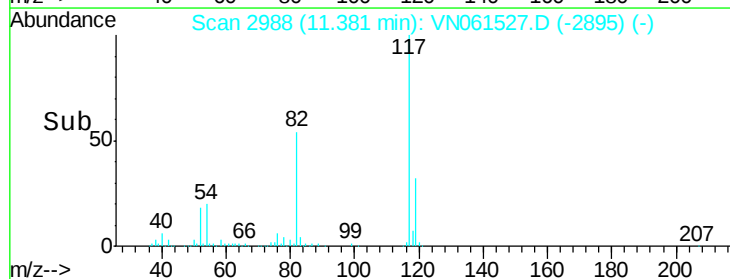
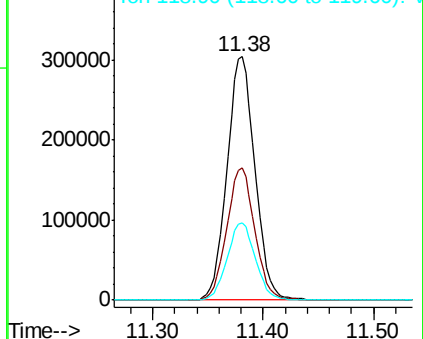
119 31.9 25.3 37.9

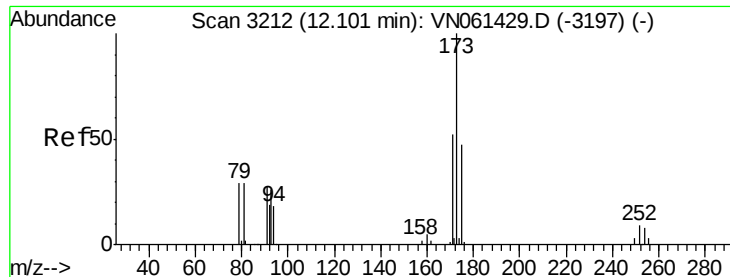


Abundance Ion 116.90 (116.60 to 117.60): VN061527.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061527.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061527.D (-2895) (-)

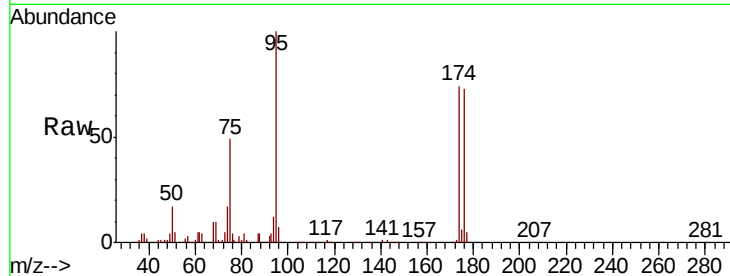




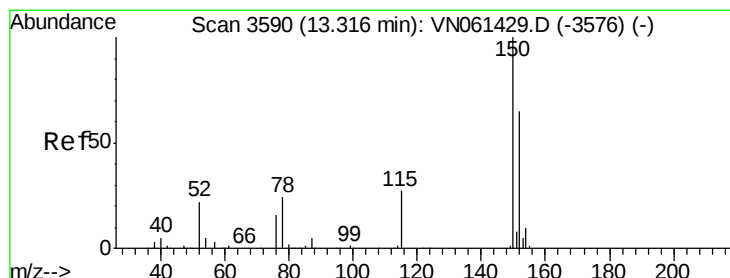
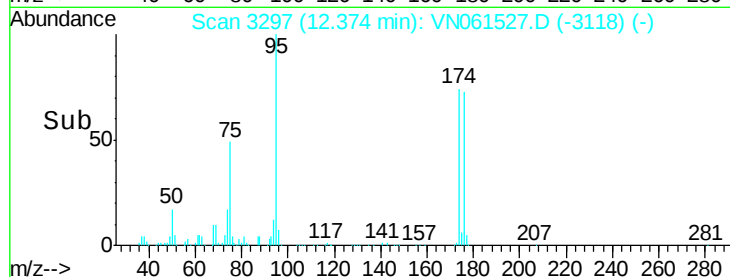
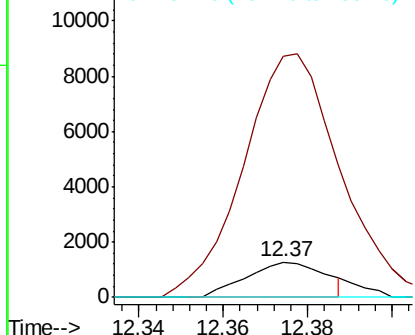
#71
Bromoform
Concen: 2.542 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 1651
Ion Ratio Lower Upper
173 100
175 739.1 23.9 71.8#
254 0.0 0.0 0.0

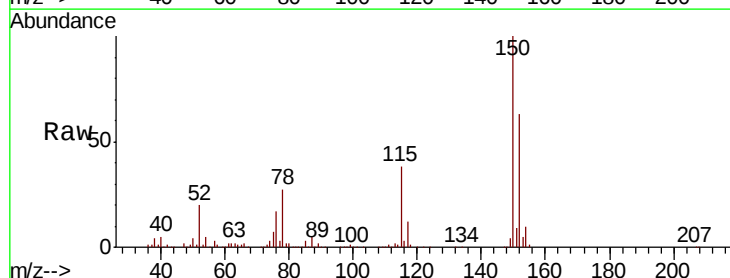


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

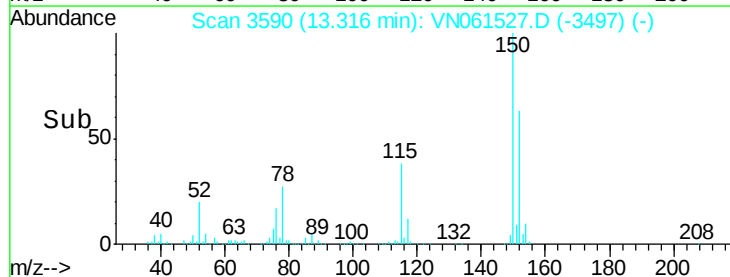
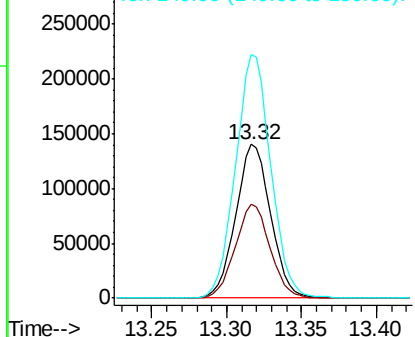


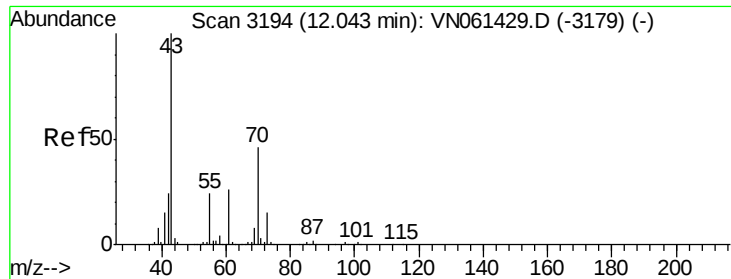
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3590
Delta R.T. 0.00 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Tgt Ion:152 Resp: 228043
Ion Ratio Lower Upper
152 100
115 60.7 30.9 92.5
150 160.5 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

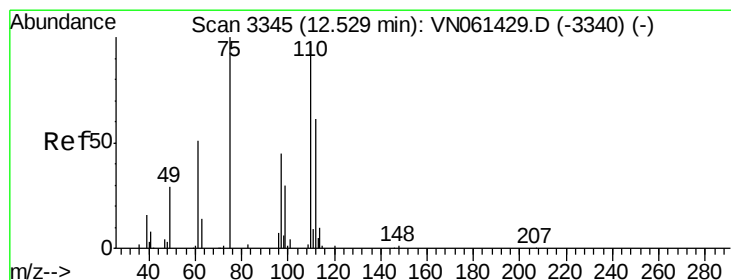
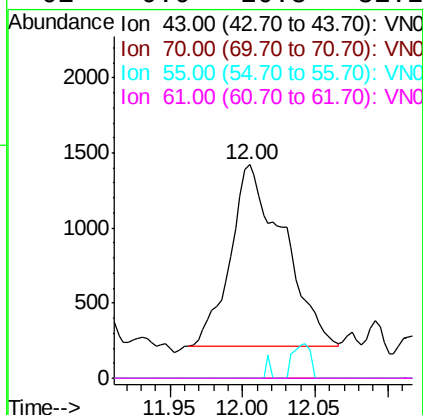
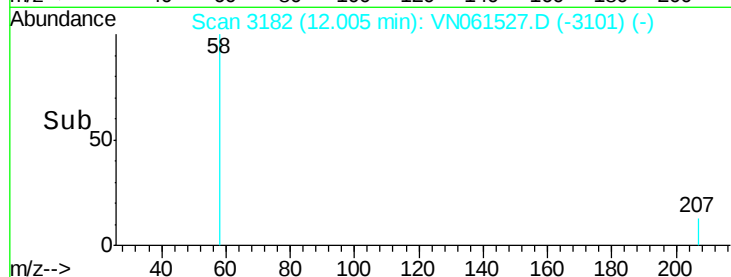
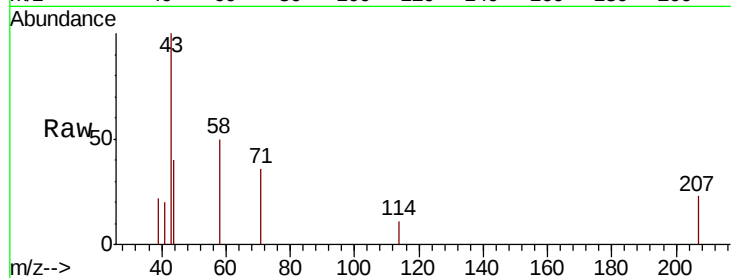




#74
N-amvl acetate
Concen: 0.459 ug/l
RT: 12.00 min Scan# 3182
Delta R.T. -0.04 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

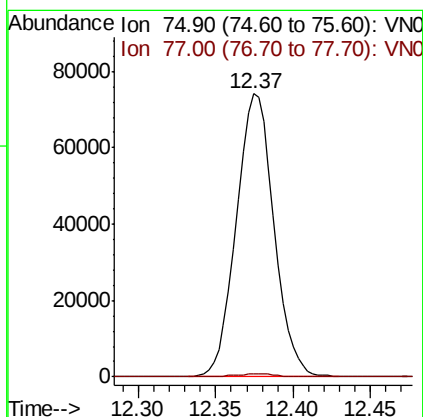
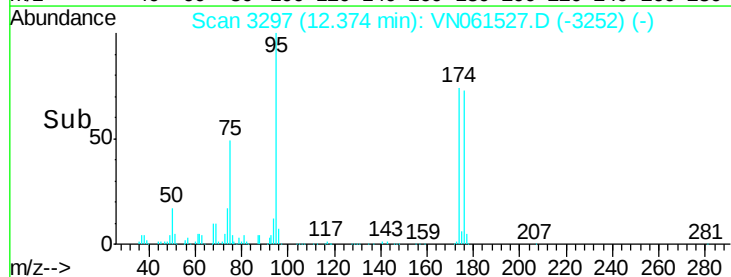
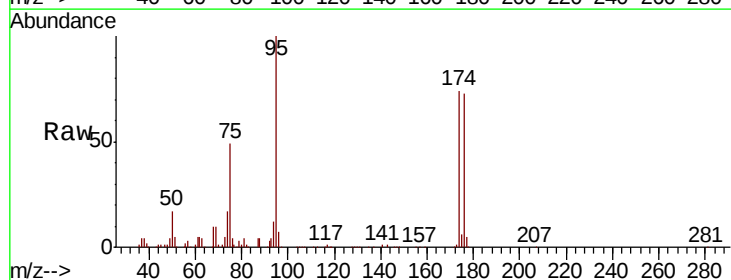
Instrument :
MSVOA_N
ClientSampleId :

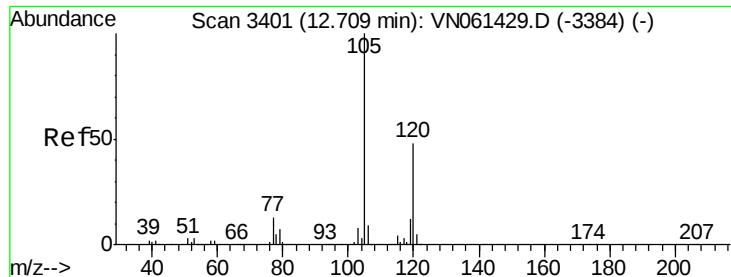
Tot Ion: 43 Resp: 3075
Ion Ratio Lower Upper
43 100
70 0.0 37.0 55.4#
55 0.0 19.5 29.3#
61 0.0 20.8 31.2#



#76
1,2,3-Trichloropropane
Concen: 25.678 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.15 min
Lab File: VN061527.D
Acq: 21 May 2020 13:54

Tgt Ion: 75 Resp: 125647
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.306 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

Instrument :

MSVOA_N

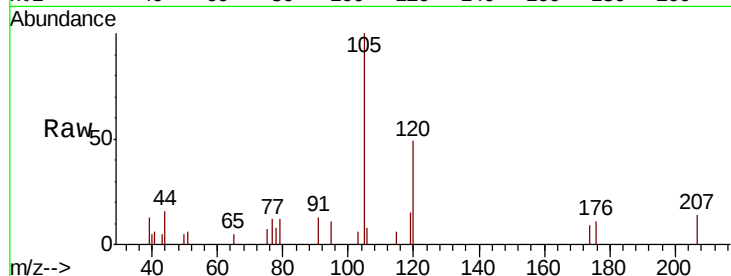
ClientSampled :

Tot Ion:105 Resp: 4588

Ion Ratio Lower Upper

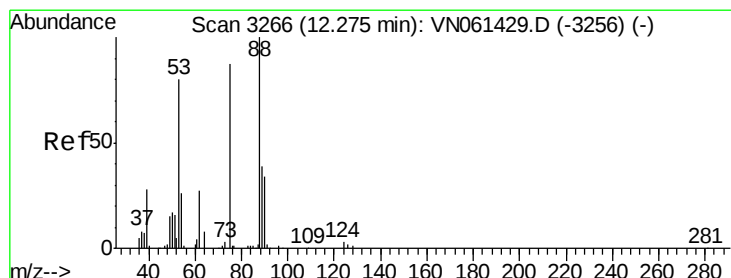
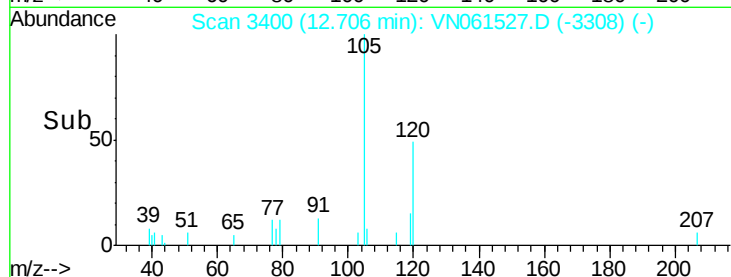
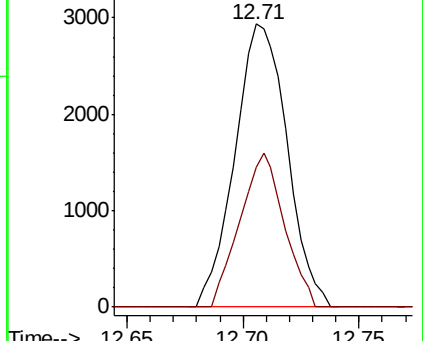
105 100

120 46.3 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.117 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061527.D

Acq: 21 May 2020 13:54

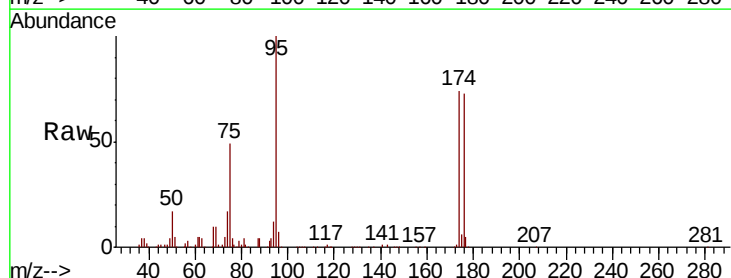
Tgt Ion: 75 Resp: 125647

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

