

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055877.D
 Acq On : 29 May 2019 14:58
 Operator : JC/SP
 Sample : K3070-04 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: May 30 03:40:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	54185	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	283564	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	227082	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106041	29.94	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.80%
60) 4-Bromofluorobenzene	12.40	95	81152	22.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.57%
63) Toluene-d8	10.09	98	329349	31.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.80%

Target Compounds

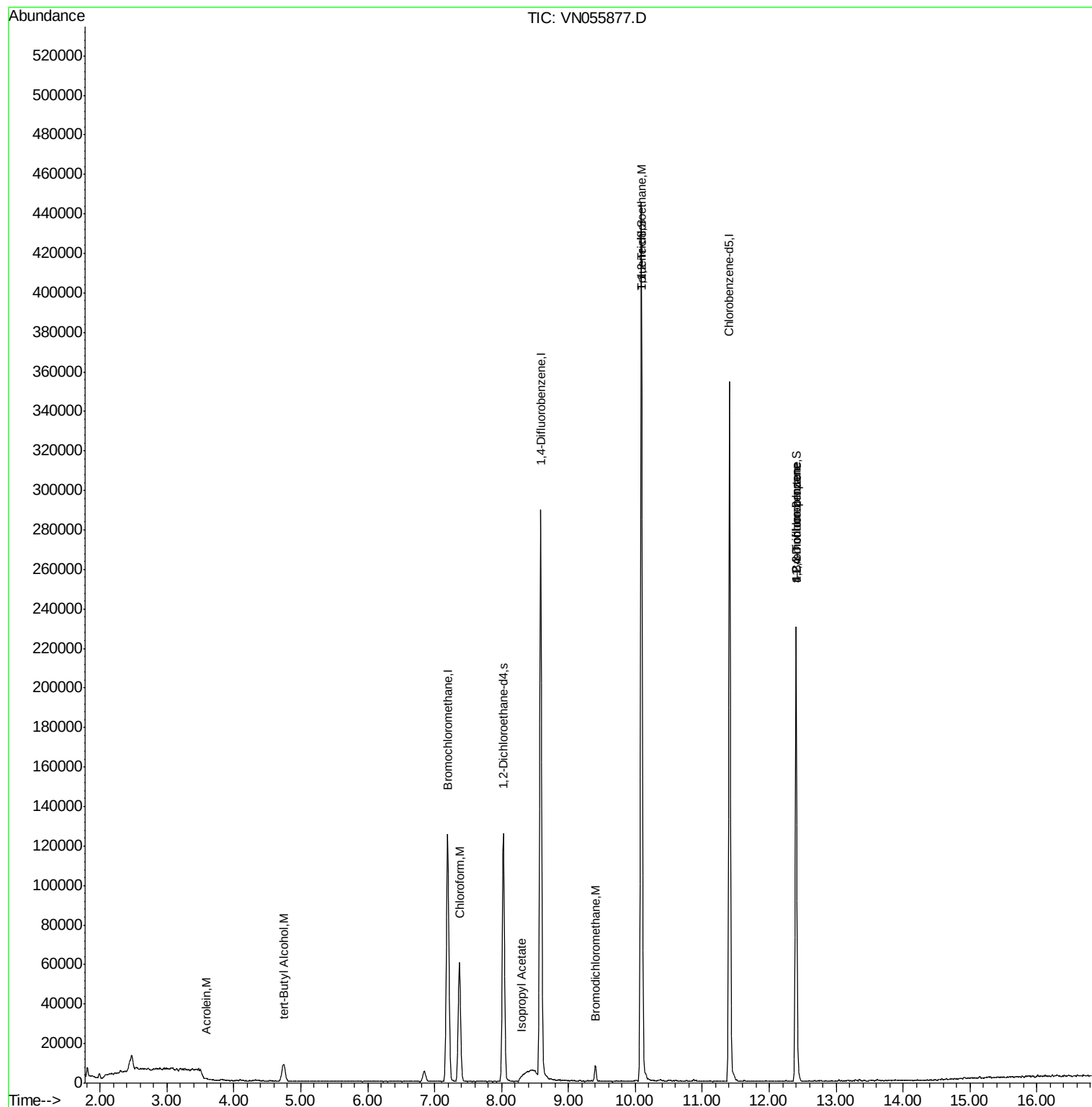
					Ovalue	
13) Acrolein	3.60	56	127	0.261	ug/l	88
23) tert-Butyl Alcohol	4.73	59	4101	5.855	ug/l #	100
25) Chloroform	7.37	83	65943	11.822	ug/l	99
41) Bromodichloromethane	9.40	83	5714	1.310	ug/l #	99
44) Isopropyl Acetate	8.29	43	1408	0.204	ug/l #	47
50) 1,1,2-Trichloroethane	10.09	97	9667	3.121	ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	38586	11.101	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	38586	27.947	ug/l #	17

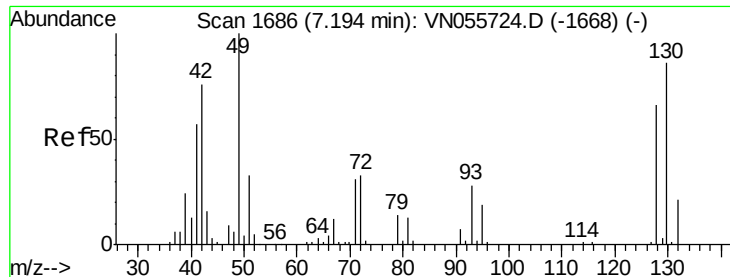
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
14B-4

Quant Time: May 30 03:40:06 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

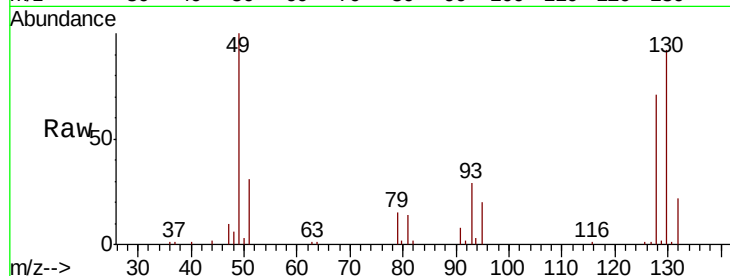




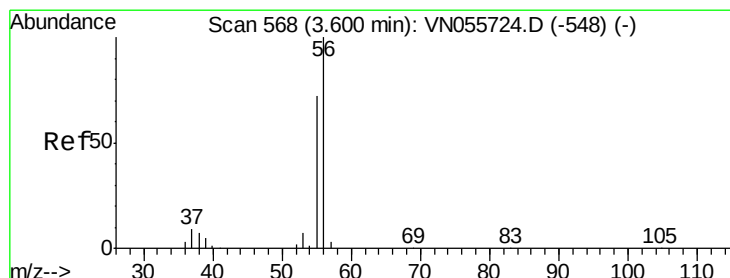
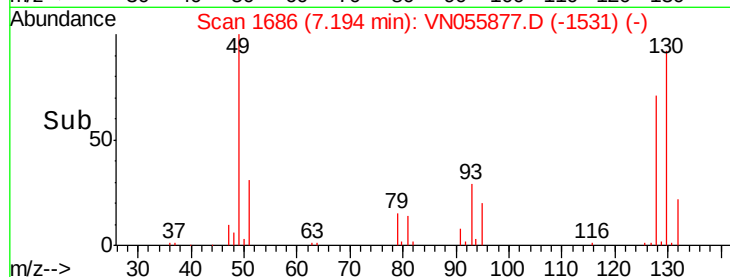
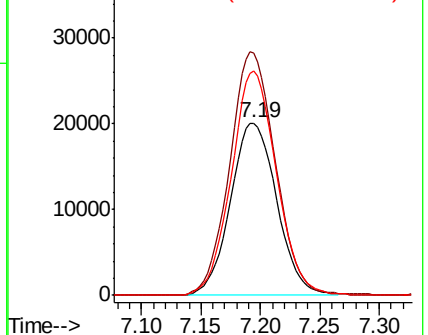
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN055877.D
Acq: 29 May 2019 14:58

Instrument :
MSVOA_N
ClientSampled :
14B-4

Tot Ion:128 Resp: 54185
Ion Ratio Lower Upper
128 100
49 139.5 0.0 383.2
130 127.2 0.0 326.3

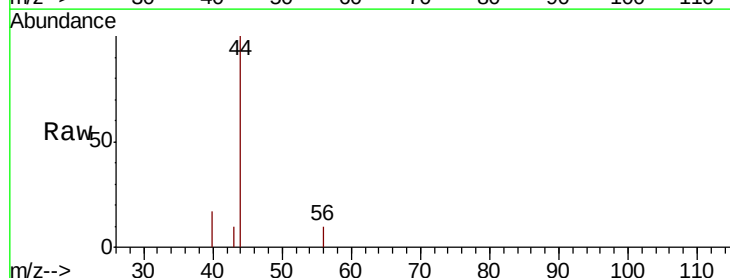


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

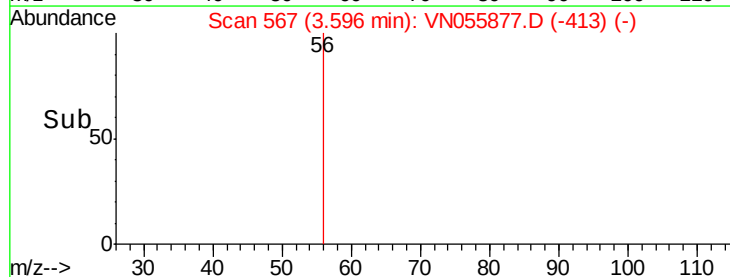
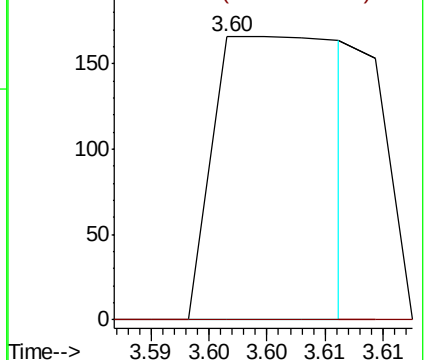


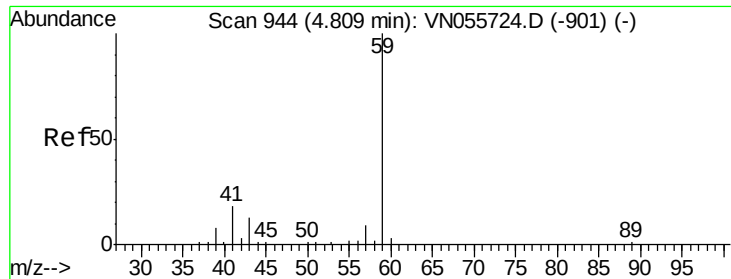
#13
Acrolein
Concen: 0.261 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.00 min
Lab File: VN055877.D
Acq: 29 May 2019 14:58

Tgt Ion: 56 Resp: 127
Ion Ratio Lower Upper
56 100
55 81.1 57.0 85.6



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#23

tert-Butyl Alcohol

Concen: 5.855 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.08 min

Lab File: VN055877.D

Acq: 29 May 2019 14:58

Instrument :

MSVOA_N

ClientSampled :

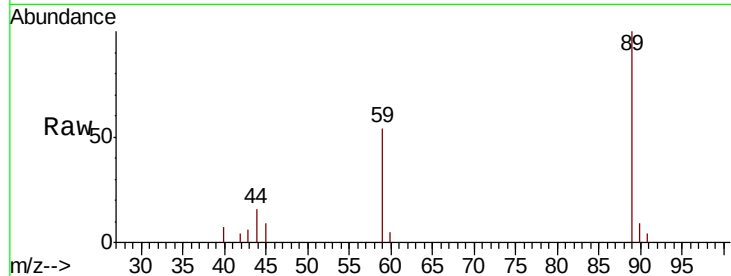
14B-4

Tot Ion: 59 Resp: 4101

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

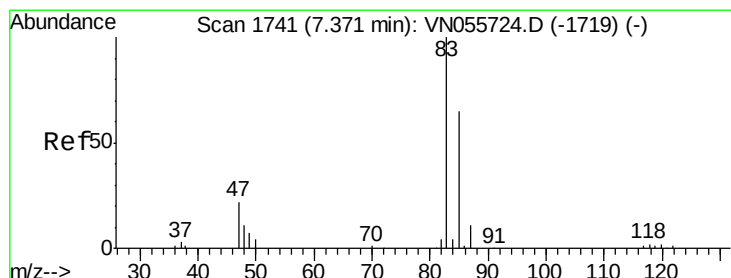
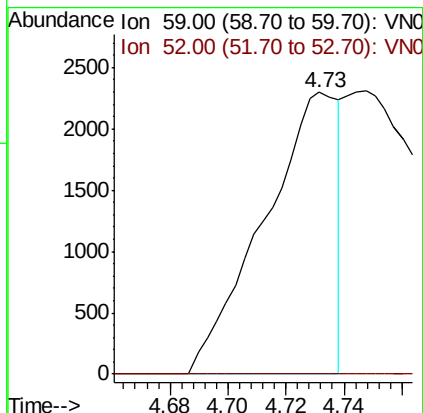
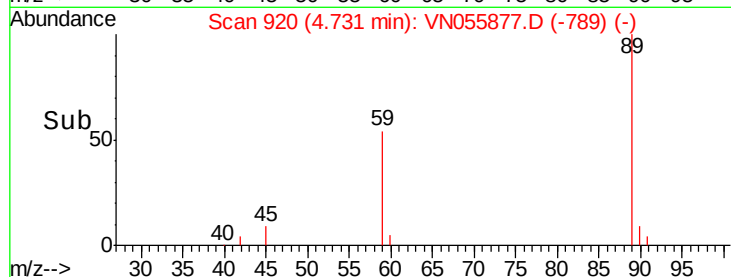


Abundance Ion 59.00 (58.70 to 59.70): VN055877.D (-1586) (-)

Ion 52.00 (51.70 to 52.70): VN055877.D (-1586) (-)

4.73

Time-->



#25

Chloroform

Concen: 11.822 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VN055877.D

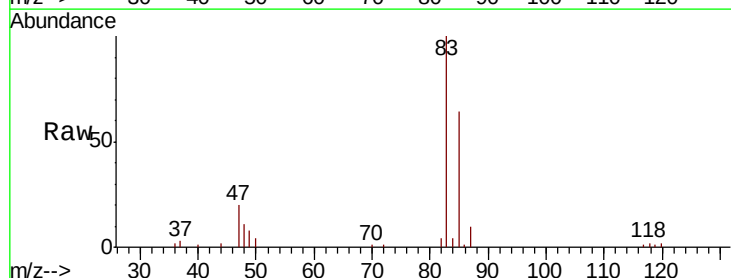
Acq: 29 May 2019 14:58

Tgt Ion: 83 Resp: 65943

Ion Ratio Lower Upper

83 100

85 63.5 51.7 77.5

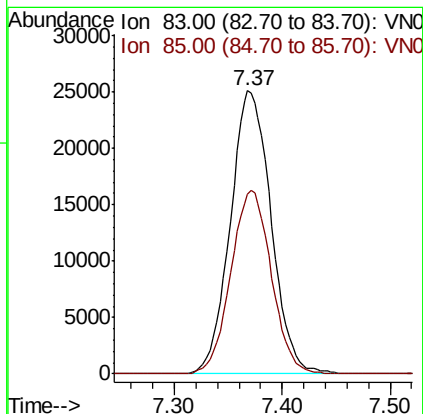
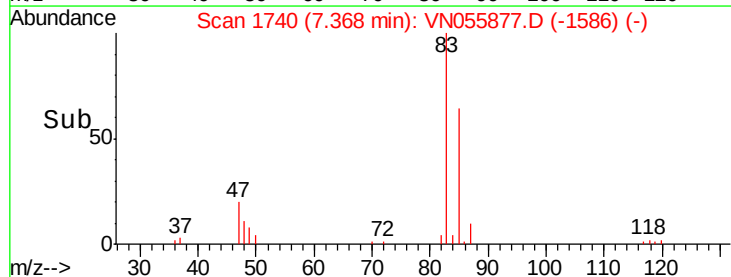


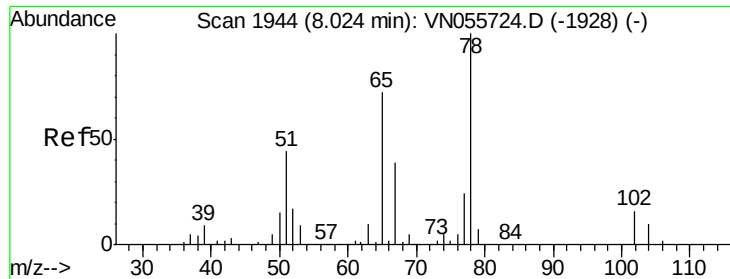
Abundance Ion 83.00 (82.70 to 83.70): VN055877.D (-1586) (-)

Ion 85.00 (84.70 to 85.70): VN055877.D (-1586) (-)

7.37

Time-->

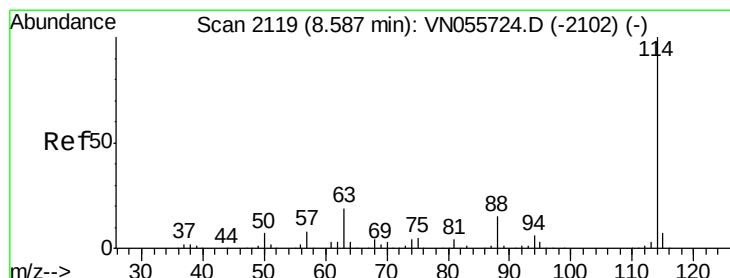
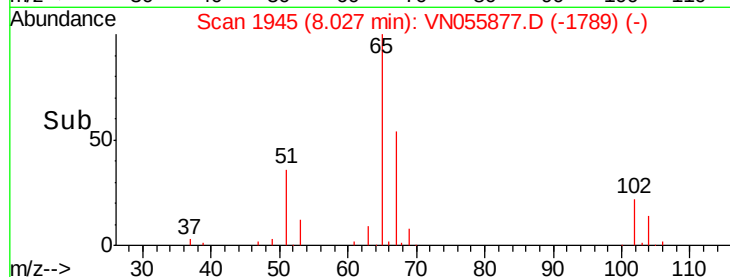
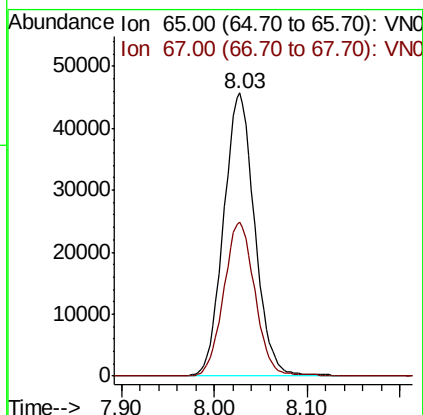
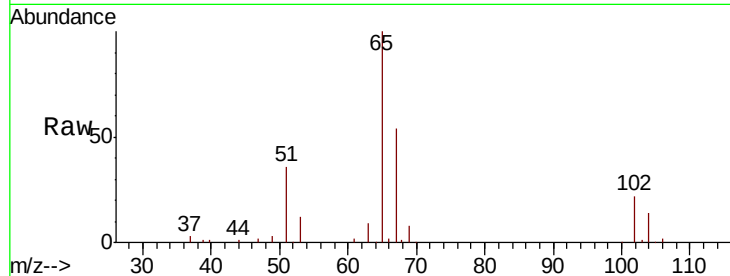




#27
 1,2-Dichloroethane-d4
 Concen: 29.941 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055877.D
 Acq: 29 May 2019 14:58

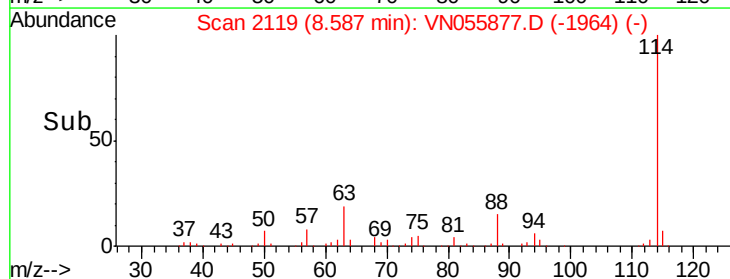
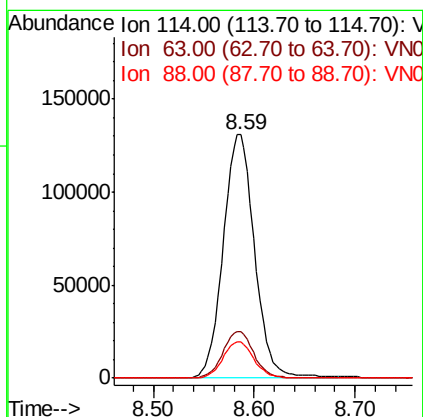
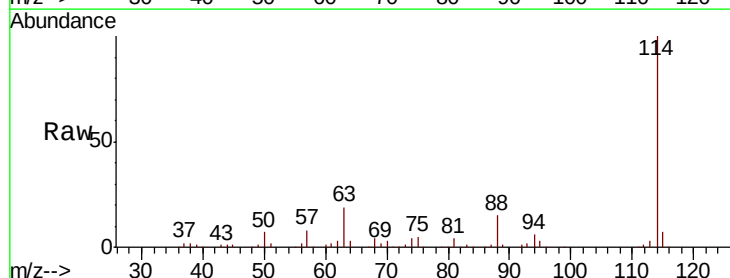
Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

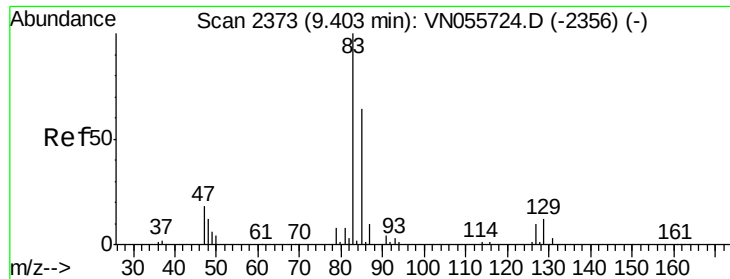
Tot Ion: 65 Resp: 106041
 Ion Ratio Lower Upper
 65 100
 67 54.4 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055877.D
 Acq: 29 May 2019 14:58

Tgt Ion: 114 Resp: 283564
 Ion Ratio Lower Upper
 114 100
 63 18.9 15.6 23.4
 88 14.7 12.3 18.5





#41

Bromodichloromethane

Concen: 1.310 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055877.D

Acq: 29 May 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

14B-4

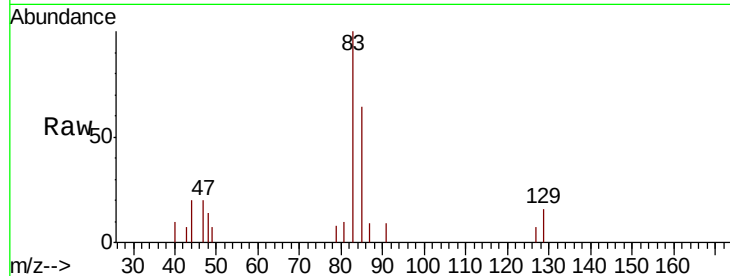
Tot Ion: 83 Resp: 5714

Ion Ratio Lower Upper

83 100

85 64.4 51.4 77.0

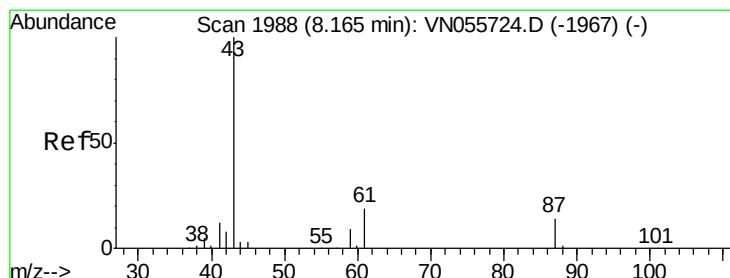
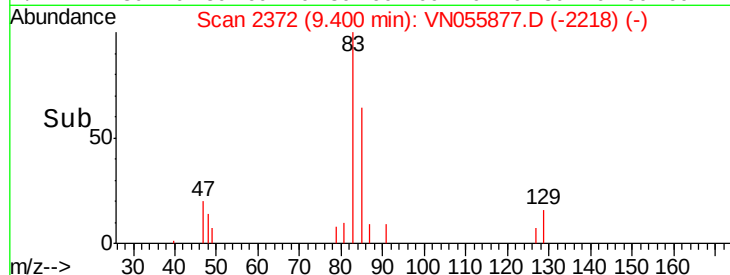
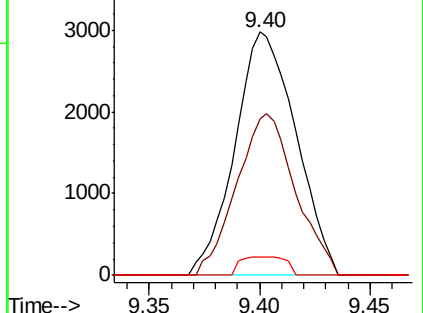
127 7.5 7.7 11.5#



Abundance Ion 83.00 (82.70 to 83.70): VN055877.D (-2356) (-)

Ion 85.00 (84.70 to 85.70): VN055877.D (-2356) (-)

Ion 127.00 (126.70 to 127.70): VN055877.D (-2356) (-)



#44

Isopropyl Acetate

Concen: 0.204 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN055877.D

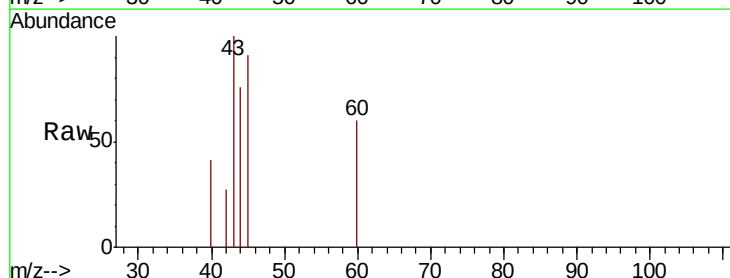
Acq: 29 May 2019 14:58

Tgt Ion: 43 Resp: 1408

Ion Ratio Lower Upper

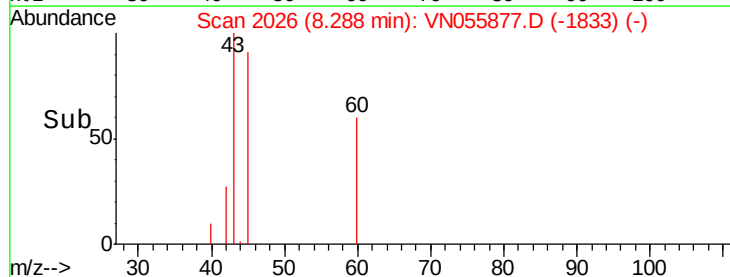
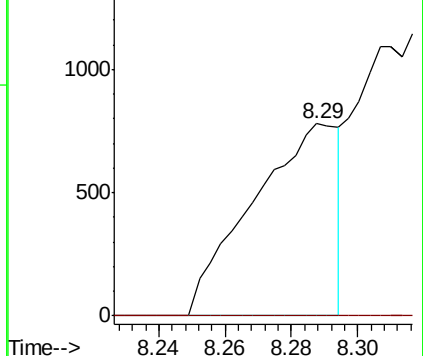
43 100

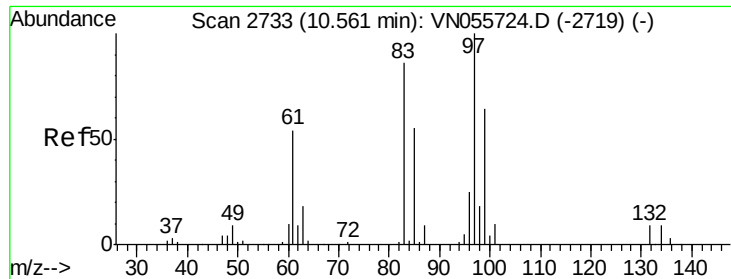
61 0.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055877.D (-1833) (-)

Ion 61.00 (60.70 to 61.70): VN055877.D (-1833) (-)

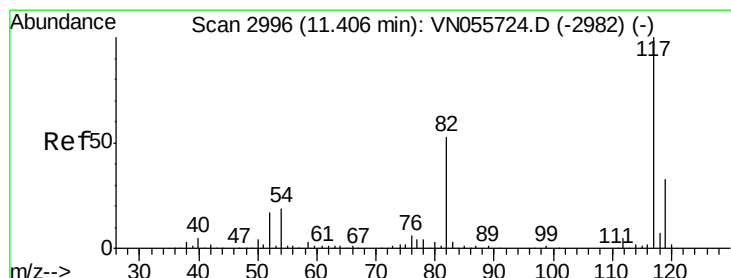
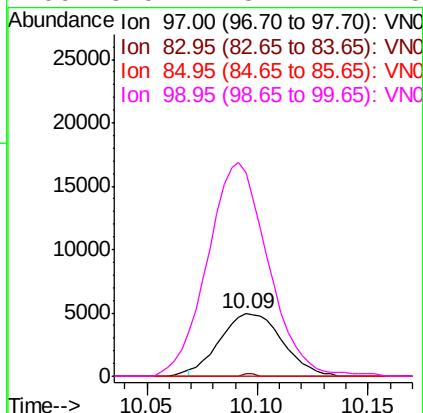
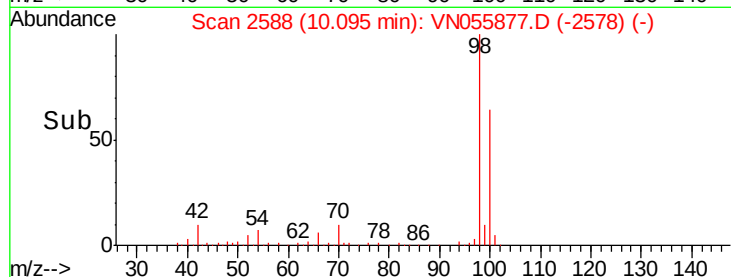
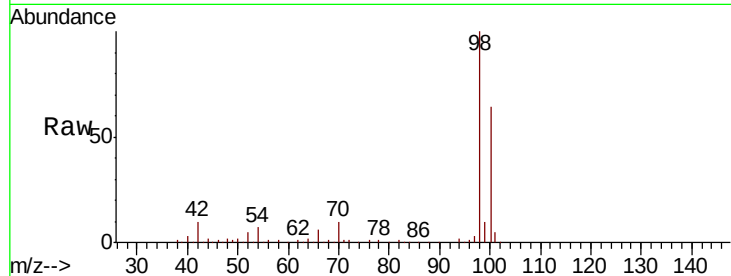




#50
1,1,2-Trichloroethane
Concen: 3.121 ug/l
RT: 10.09 min Scan# 2588
Delta R.T. -0.47 min
Lab File: VN055877.D
Acq: 29 May 2019 14:58

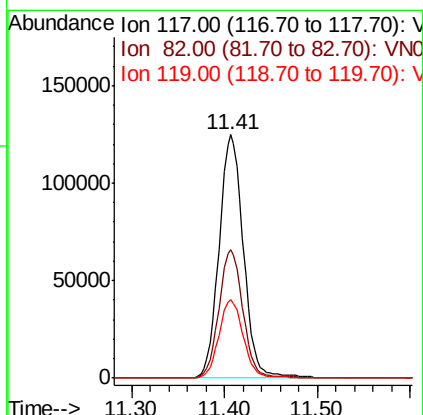
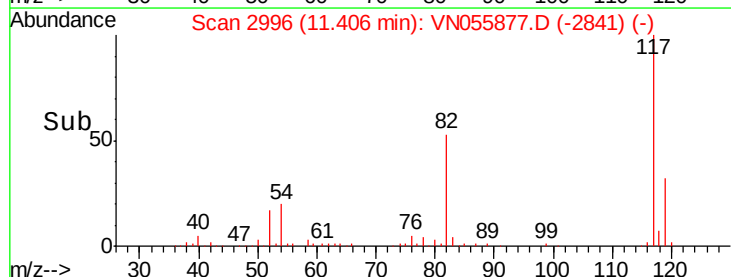
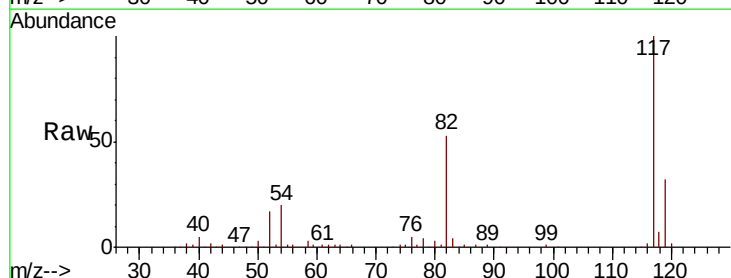
Instrument :
MSVOA_N
ClientSampled :
14B-4

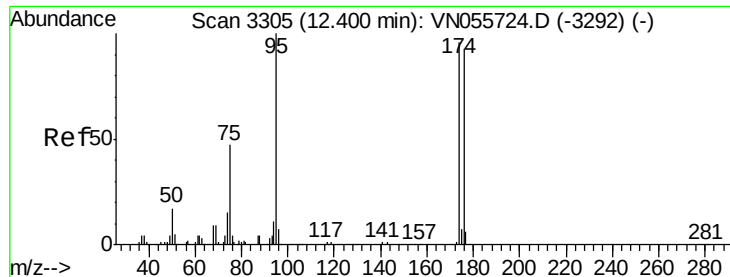
Tot Ion: 97 Resp: 9667
Ion Ratio Lower Upper
97 100
83 3.2 68.9 103.3#
85 0.0 44.3 66.5#
99 319.4 51.4 77.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055877.D
Acq: 29 May 2019 14:58

Tgt Ion: 117 Resp: 227082
Ion Ratio Lower Upper
117 100
82 52.1 42.6 64.0
119 31.9 25.9 38.9





#60

4-Bromofluorobenzene

Concen: 22.973 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055877.D

Acq: 29 May 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

14B-4

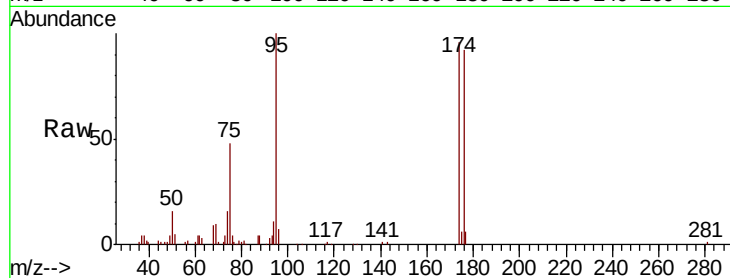
Tot Ion: 95 Resp: 81152

Ion Ratio Lower Upper

95 100

174 95.4 75.7 113.5

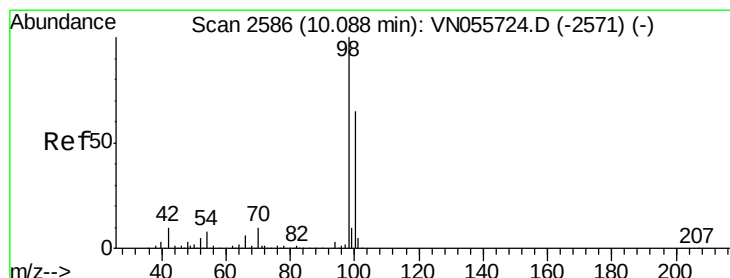
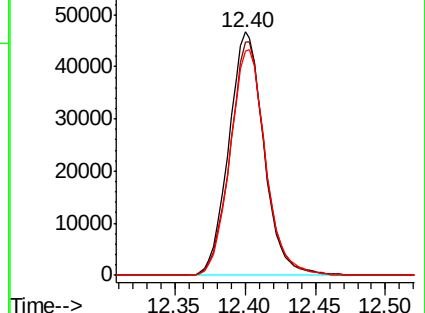
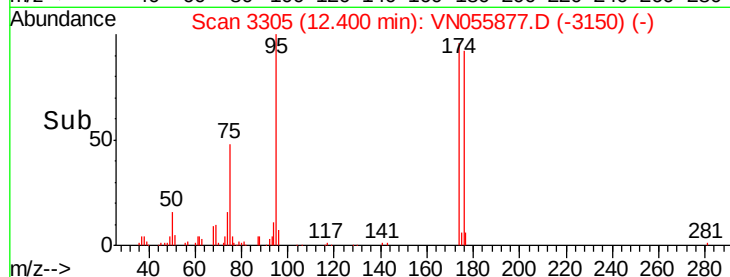
176 93.6 74.1 111.1



Abundance Ion 95.00 (94.70 to 95.70): VN055877.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN055877.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN055877.D (-3150) (-)



#63

Toluene-d8

Concen: 31.737 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055877.D

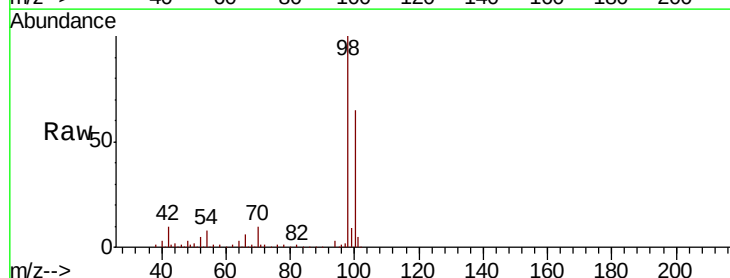
Acq: 29 May 2019 14:58

Tgt Ion: 98 Resp: 329349

Ion Ratio Lower Upper

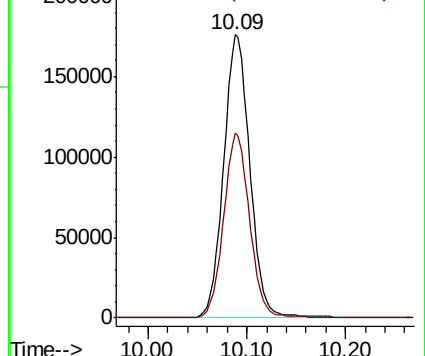
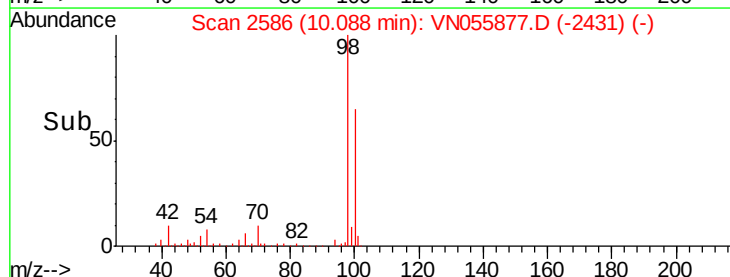
98 100

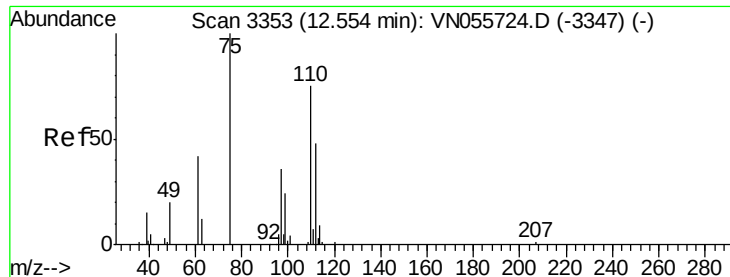
100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN055877.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN055877.D (-2431) (-)





#72

1,2,3-Trichloropropane

Concen: 11.101 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055877.D

Acq: 29 May 2019 14:58

Instrument :

MSVOA_N

ClientSampled :

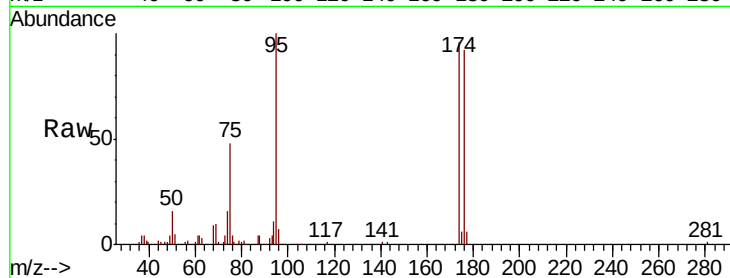
14B-4

Tot Ion: 75 Resp: 38586

Ion Ratio Lower Upper

75 100

77 0.9 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

25000

20000

15000

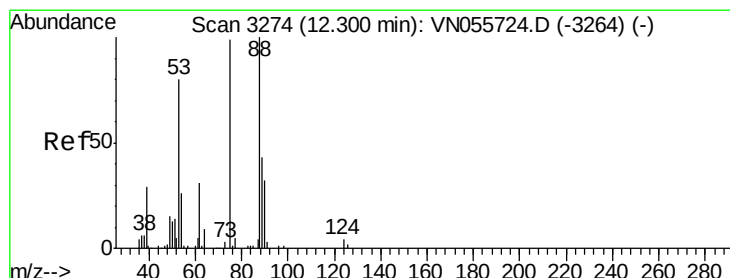
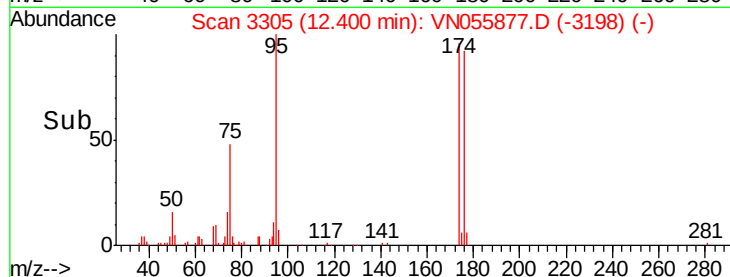
10000

5000

0

12.35 12.40 12.45

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 27.947 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055877.D

Acq: 29 May 2019 14:58

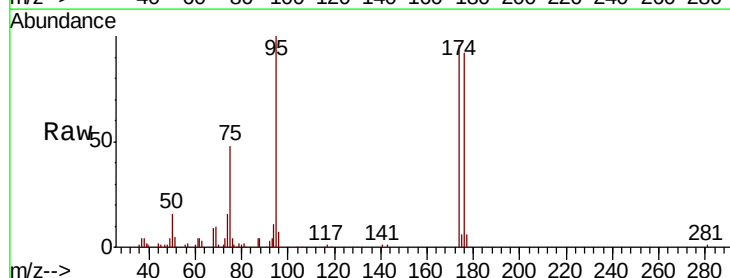
Tgt Ion: 75 Resp: 38586

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

30000

25000

20000

15000

10000

5000

0

12.35 12.40 12.45

Time-->

