

Data File : VN059546.D
Acq On : 10 Dec 2019 14:48
Operator : JC/SP
Sample : K6204-15
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
K072-AA-WC-2

Quant Time: Dec 11 06:17:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120919W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 10 01:09:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	259896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	415952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	468183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	197800	50.00	ug/l	0.00

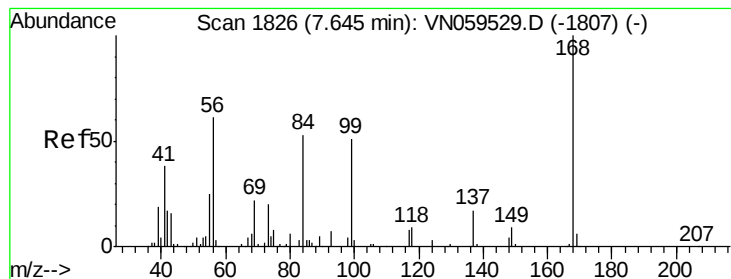
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	183725	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
35) Dibromofluoromethane	7.57	113	131862	53.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.24%	
50) Toluene-d8	10.08	98	637107	62.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.74%	
62) 4-Bromofluorobenzene	12.40	95	190330	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	

Target Compounds			Qvalue			
11) Tert butyl alcohol	4.75	59	377	0.627	ug/l #	71
14) Allyl chloride	4.52	41	7953	1.528	ug/l #	23
16) Acetone	3.80	43	12672	7.468	ug/l	93
17) Carbon Disulfide	4.03	76	4113	Below Cal	#	92
18) Methyl Acetate	4.30	43	3183	0.714	ug/l #	80
20) Methylene Chloride	4.53	84	197684	64.731	ug/l	99
25) 2-Butanone	6.82	43	4427	1.938	ug/l	92
31) Cyclohexane	7.65	56	6323	1.155	ug/l #	9
36) 1,1-Dichloropropene	7.65	75	22292	5.224	ug/l #	50
37) Ethyl Acetate	6.82	43	4427	2.400	ug/l #	81
38) Carbon Tetrachloride	7.65	117	25611	6.089	ug/l #	16
43) Isopropyl Acetate	8.15	43	63936	8.679	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1311	0.406	ug/l #	44
48) Methyl methacrylate	9.17	41	4179	1.297	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	6711	0.625	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	30710	6.071	ug/l #	61
56) Ethyl methacrylate	10.53	69	1124	2.340	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5716	1.139	ug/l #	42
59) 2-Hexanone	10.76	43	86292	26.137	ug/l #	54
74) N-amyl acetate	12.03	43	3794	0.587	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	91050	18.000	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3042	0.239	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	91050	48.430	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.28	75	53	2.124	ug/l #	3
95) Naphthalene	15.13	128	2855	0.221	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	192	2.453	ug/l #	1

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059546.D

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Instrument :

MSVOA_N

ClientSampleId :

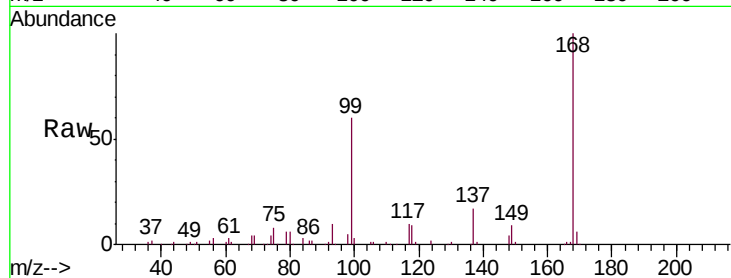
K072-AA-WC-2

Tgt Ion:168 Resp: 259896

Ion Ratio Lower Upper

168 100

99 60.5 46.6 70.0



Abundance Ion 167.90 (167.60 to 168.60): VN059529.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059529.D (-1807) (-)

7.65

120000

100000

80000

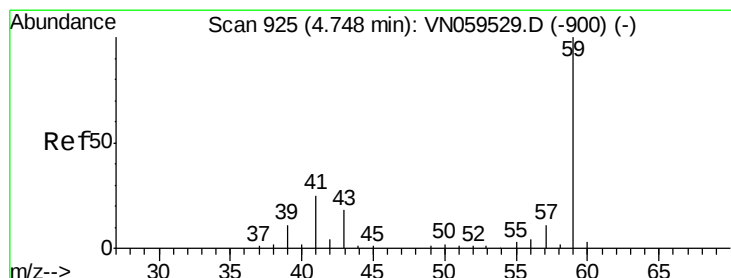
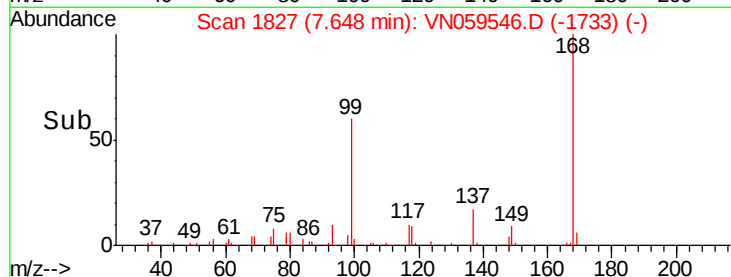
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.627 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.00 min

Lab File: VN059546.D

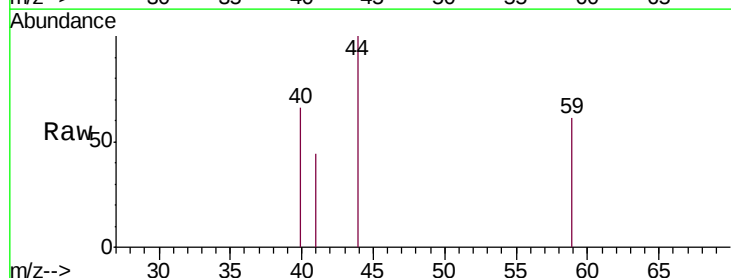
Acq: 10 Dec 2019 14:48

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN059529.D (-900) (-)

Ion 57.00 (56.70 to 57.70): VN059529.D (-900) (-)

4.75

300

250

200

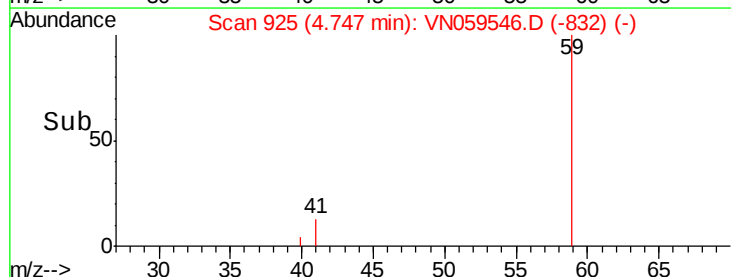
150

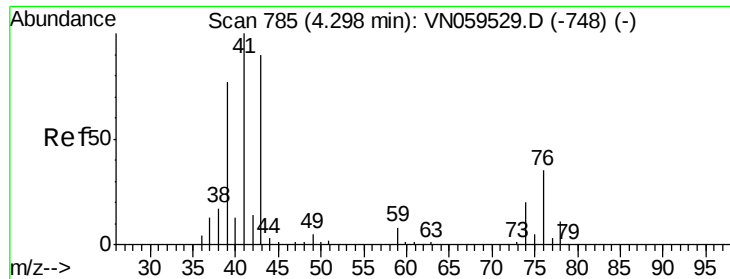
100

50

0

Time-->

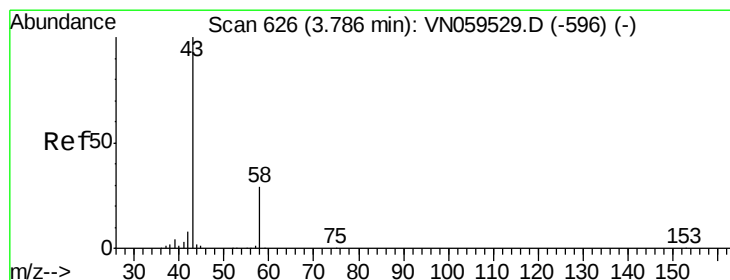
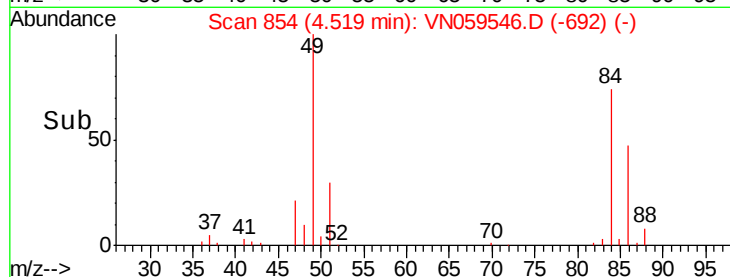
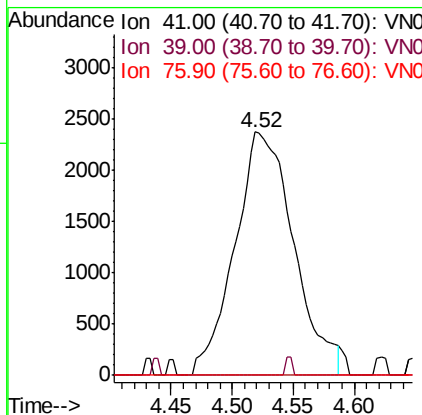
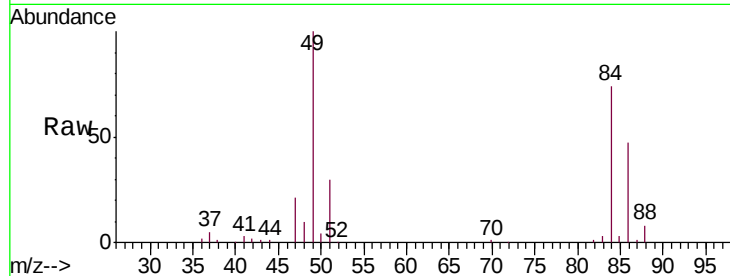




#14
 Allyl chloride
 Concen: 1.528 ug/l
 RT: 4.52 min Scan# 854
 Delta R.T. 0.22 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

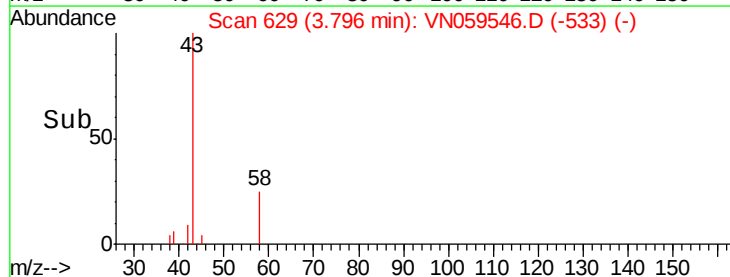
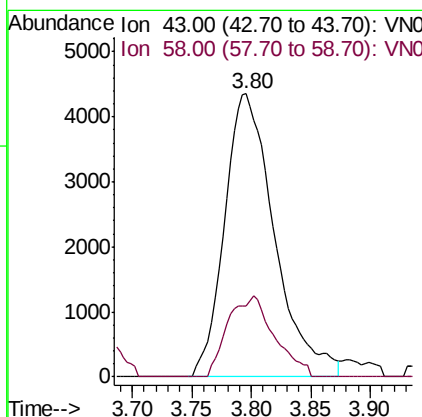
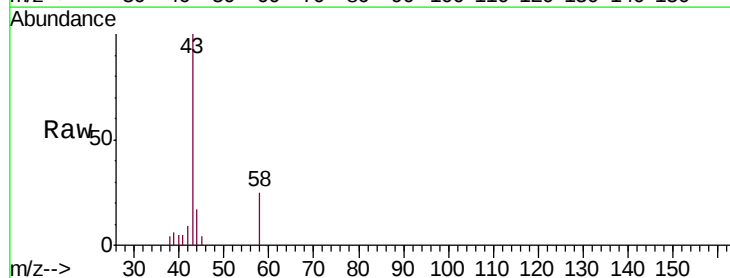
Instrument :
 MSVOA_N
 ClientSampled :
 K072-AA-WC-2

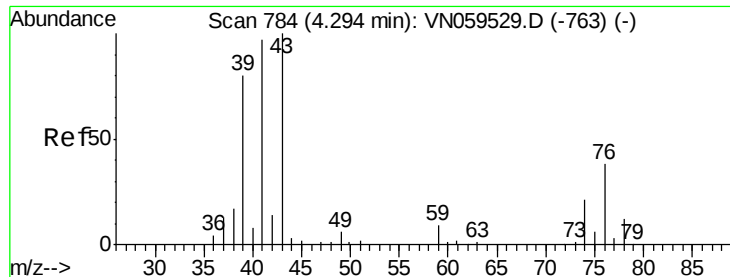
Tgt Ion: 41 Resp: 7953
 Ion Ratio Lower Upper
 41 100
 39 0.0 56.7 85.1#
 76 0.0 25.5 38.3#



#16
 Acetone
 Concen: 7.468 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.01 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

Tgt Ion: 43 Resp: 12672
 Ion Ratio Lower Upper
 43 100
 58 25.1 23.0 34.4

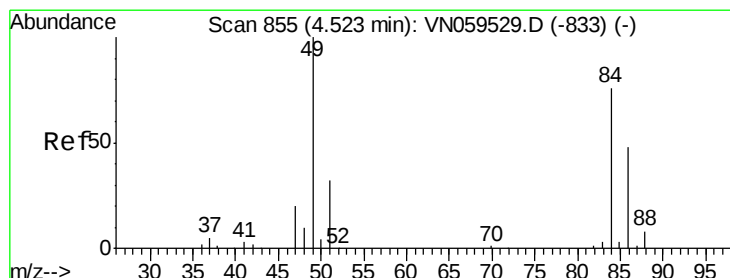
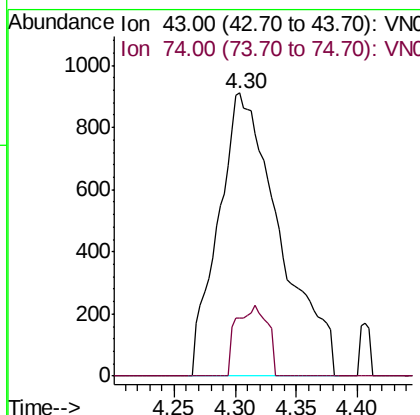
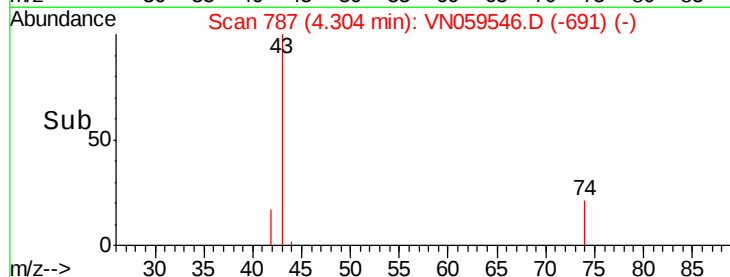
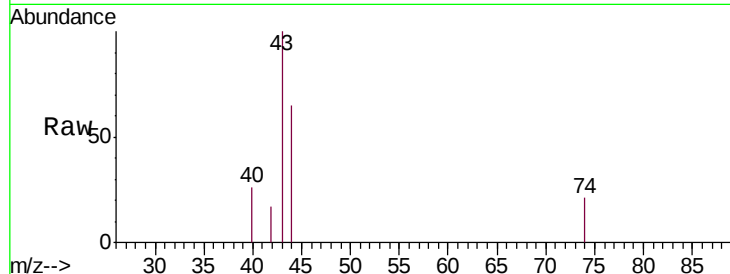




#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

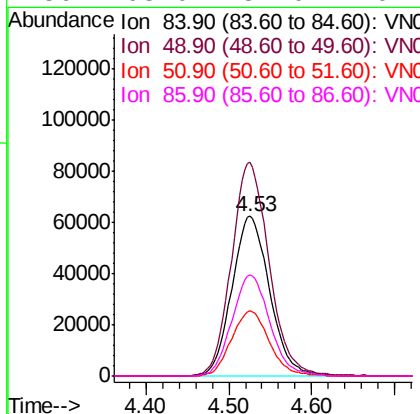
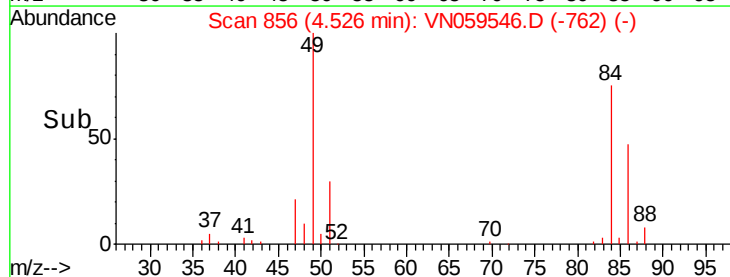
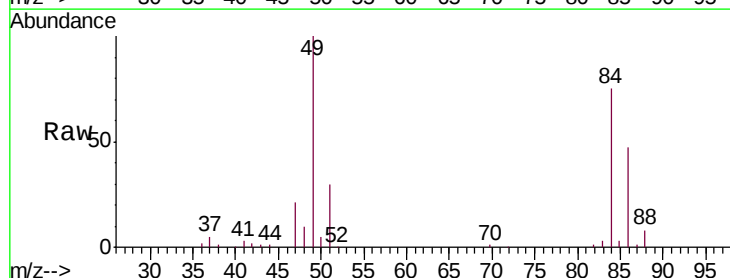
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ClientSampleId :
K072-AA-WC-2

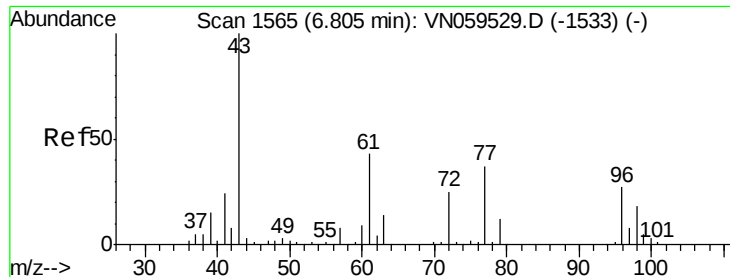
Tgt Ion: 43 Resp: 3183
Ion Ratio Lower Upper
43 100
74 12.5 17.5 26.3#



#20
Methylene Chloride
Concen: 64.731 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

Tgt Ion: 84 Resp: 197684
Ion Ratio Lower Upper
84 100
49 133.4 105.8 158.8
51 40.6 33.7 50.5
86 63.0 51.0 76.4





#25

2-Butanone

Concen: 1.938 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.02 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

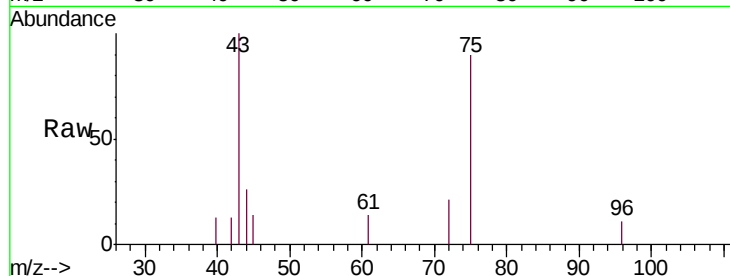
K072-AA-WC-2

Tgt Ion: 43 Resp: 4427

Ion Ratio Lower Upper

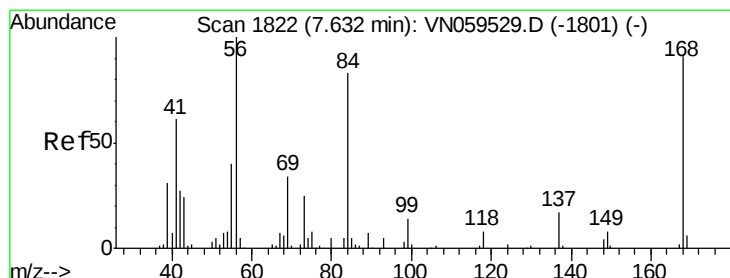
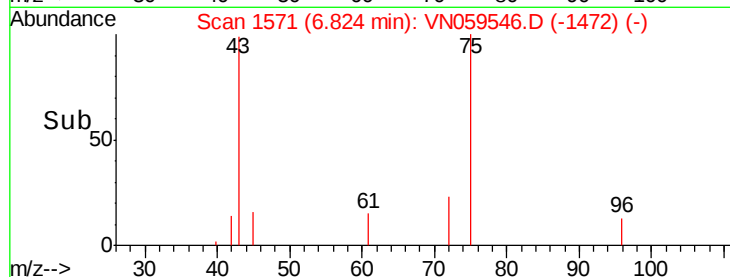
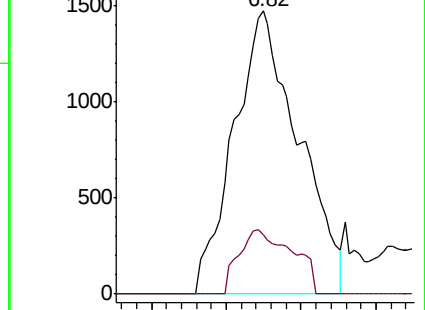
43 100

72 20.9 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.155 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

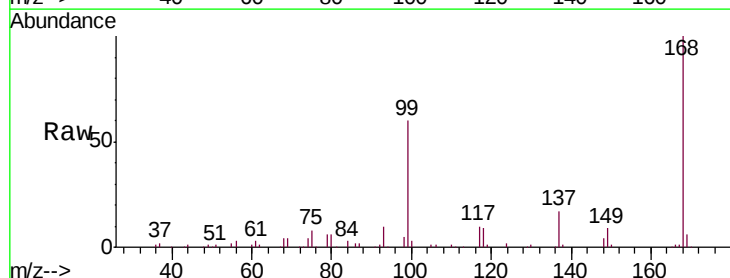
Tgt Ion: 56 Resp: 6323

Ion Ratio Lower Upper

56 100

69 155.2 26.9 40.3#

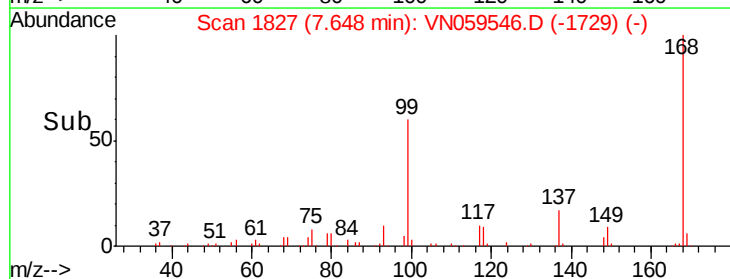
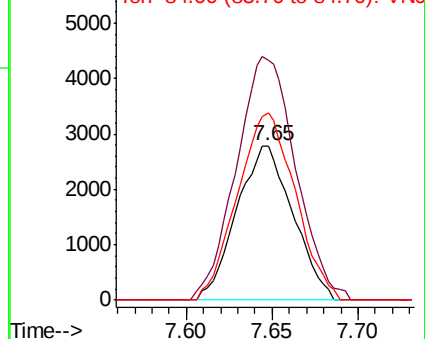
84 121.0 66.5 99.7#

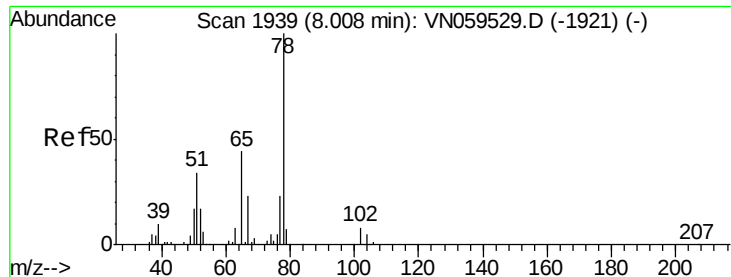


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

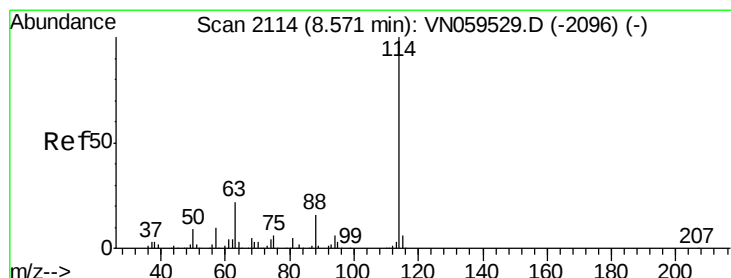
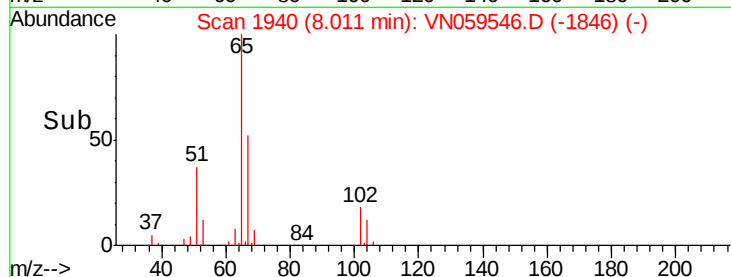
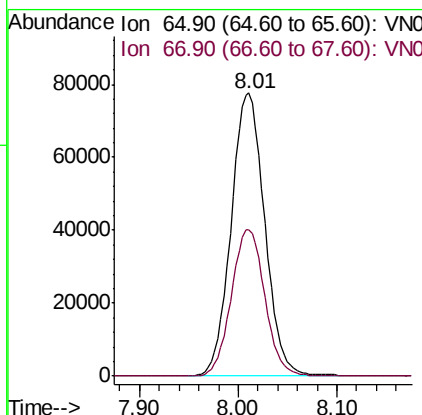
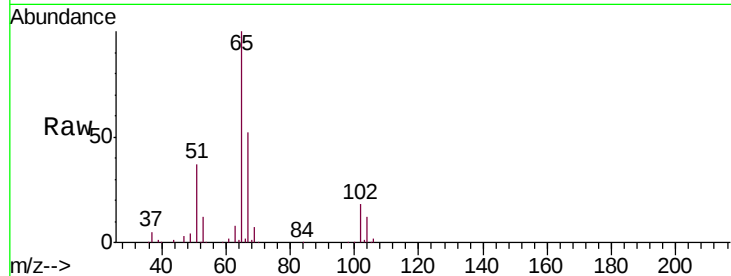




#33
 1,2-Dichloroethane-d4
 Concen: 50.580 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

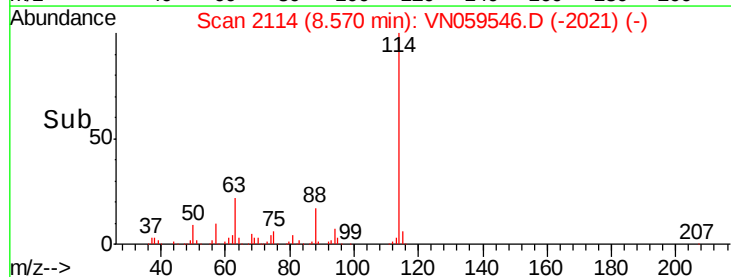
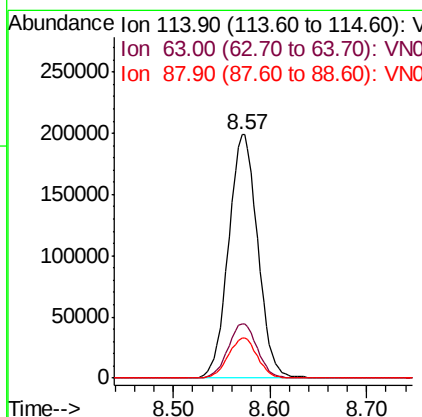
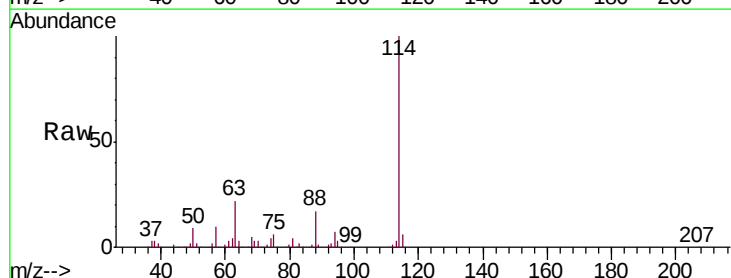
Instrument :
 MSVOA_N
 ClientSampleId :
 K072-AA-WC-2

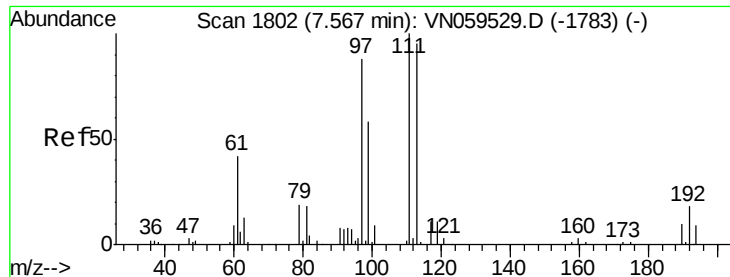
Tgt Ion: 65 Resp: 183725
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

Tgt Ion: 114 Resp: 415952
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.6 0.0 32.2

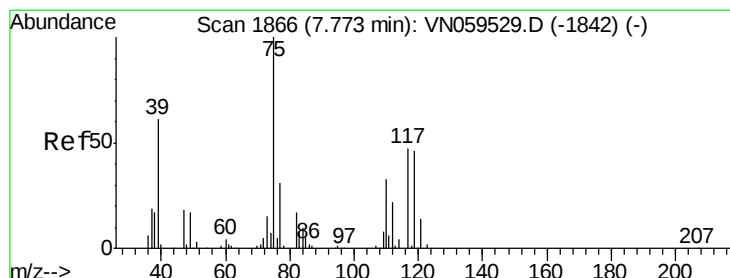
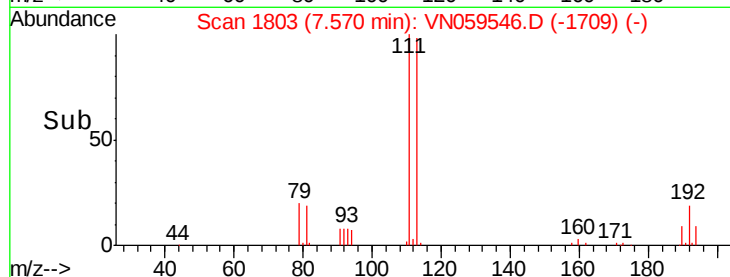
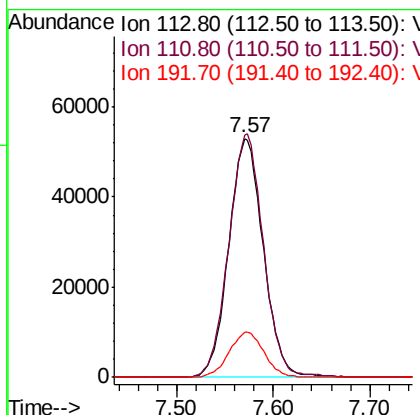
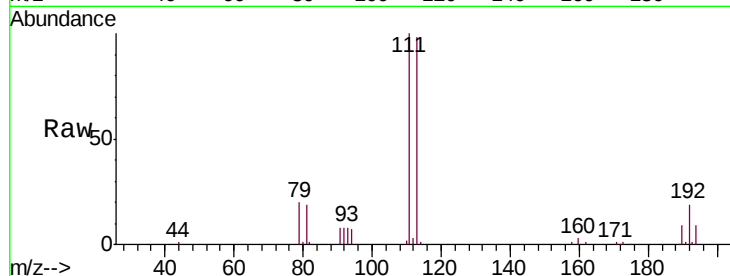




#35
 Dibromofluoromethane
 Concen: 53.124 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

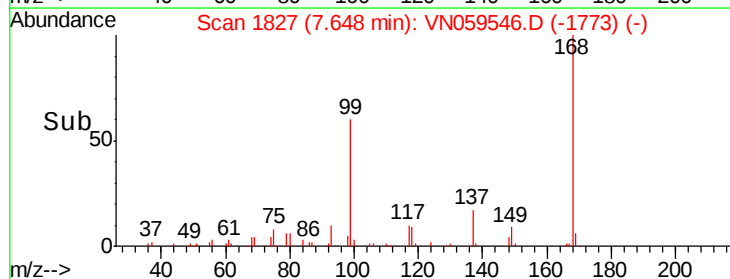
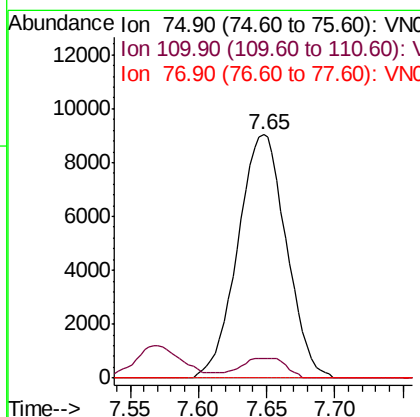
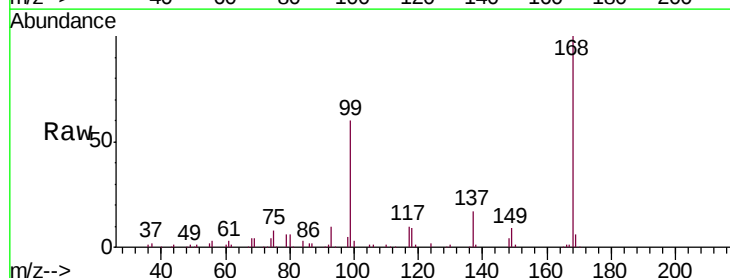
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 ClientSampleId :
 K072-AA-WC-2

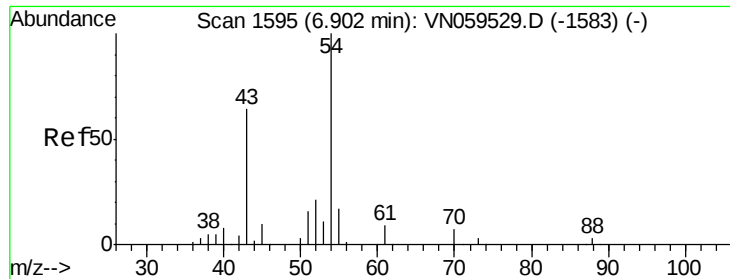
Tgt Ion: 113 Resp: 131862
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.2 123.4
 192 19.0 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 5.224 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

Tgt Ion: 75 Resp: 22292
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.7 50.0#
 77 0.0 24.6 37.0#

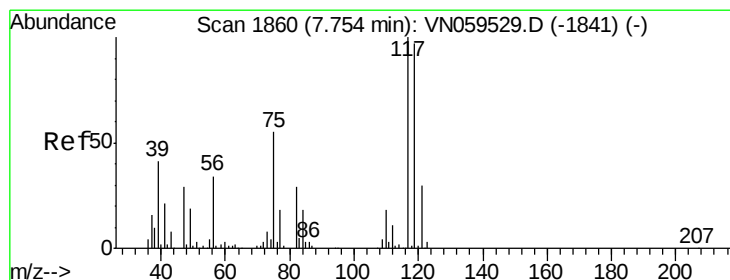
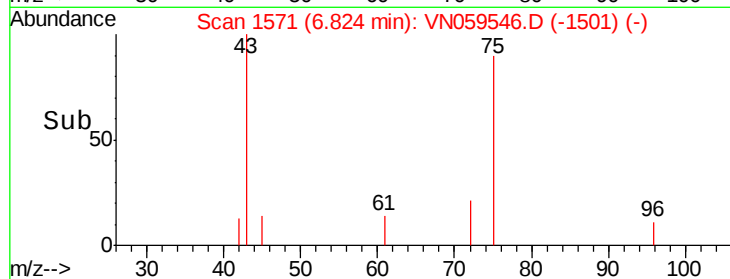
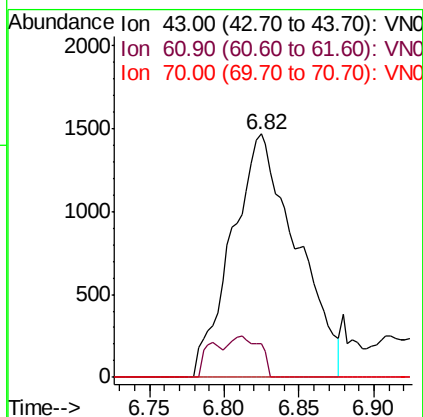
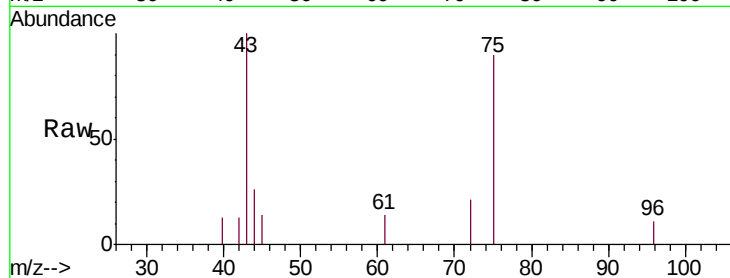




#37
Ethyl Acetate
Concen: 2.400 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.08 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

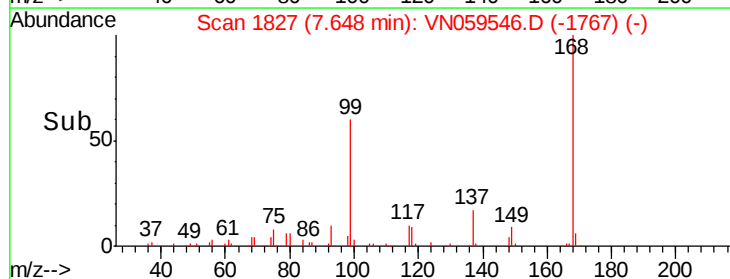
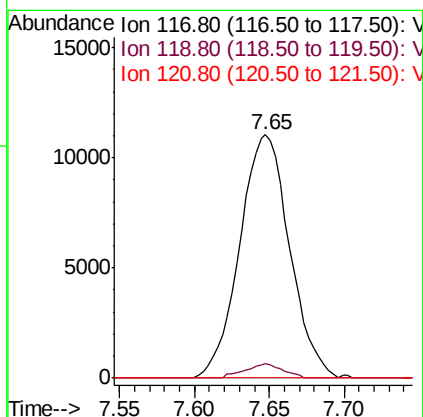
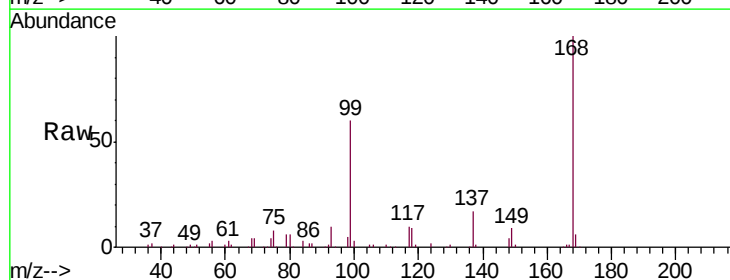
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ClientSampleId :
K072-AA-WC-2

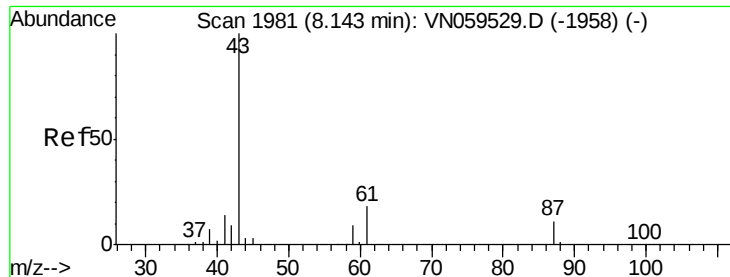
Tgt Ion: 43 Resp: 4427
Ion Ratio Lower Upper
43 100
61 8.2 11.0 16.6#
70 0.0 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 6.089 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

Tgt Ion: 117 Resp: 25611
Ion Ratio Lower Upper
117 100
119 5.8 77.0 115.4#
121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 8.679 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

K072-AA-WC-2

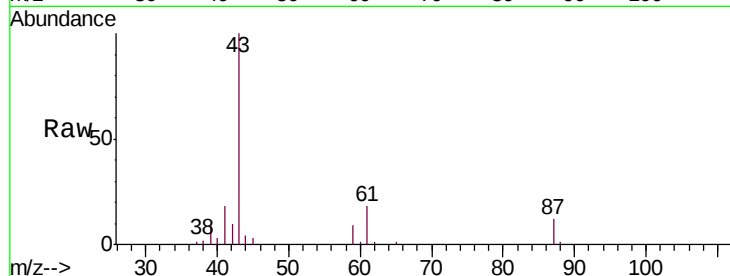
Tgt Ion: 43 Resp: 63936

Ion Ratio Lower Upper

43 100

61 18.9 19.8 29.6#

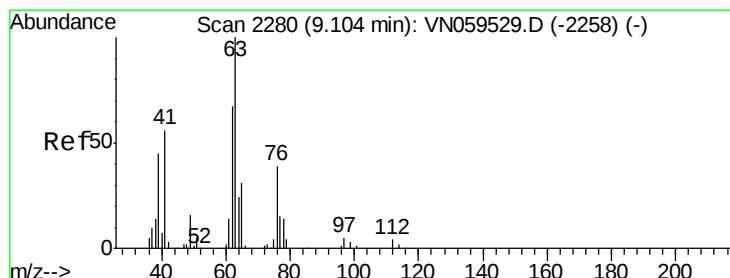
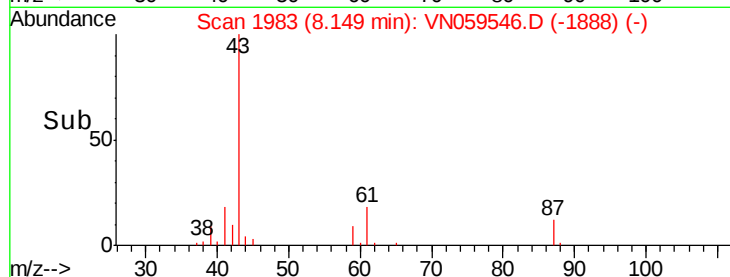
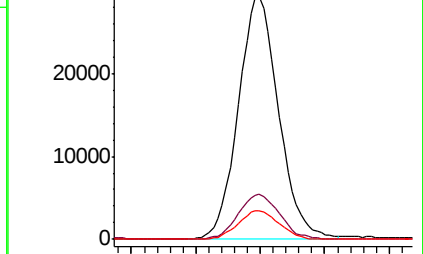
87 11.8 9.4 14.2



Abundance Ion 43.00 (42.70 to 43.70): VN059529.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN059529.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN059529.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN059546.D

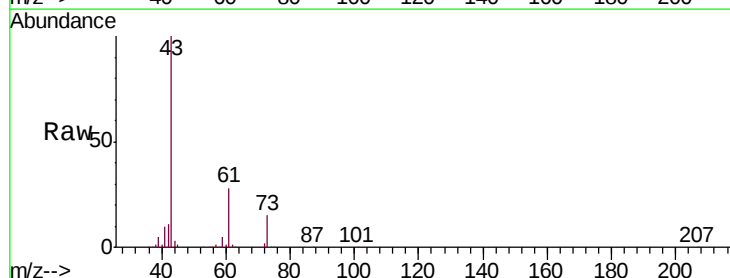
Acq: 10 Dec 2019 14:48

Tgt Ion: 63 Resp: 1311

Ion Ratio Lower Upper

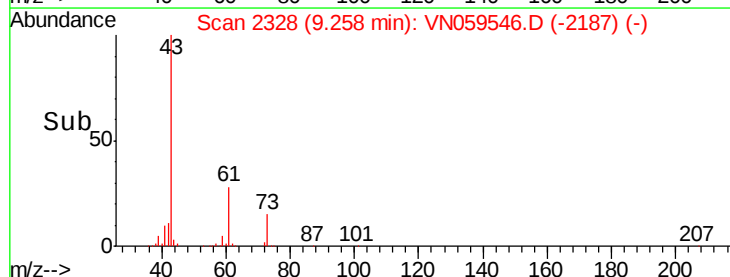
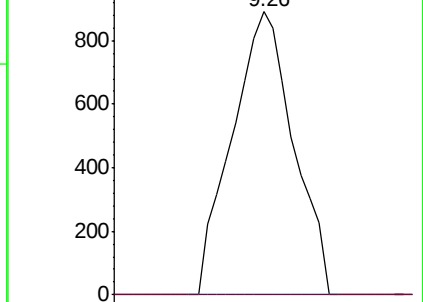
63 100

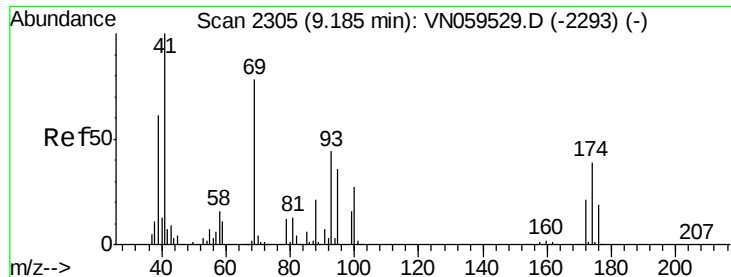
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN059529.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN059529.D (-2258) (-)

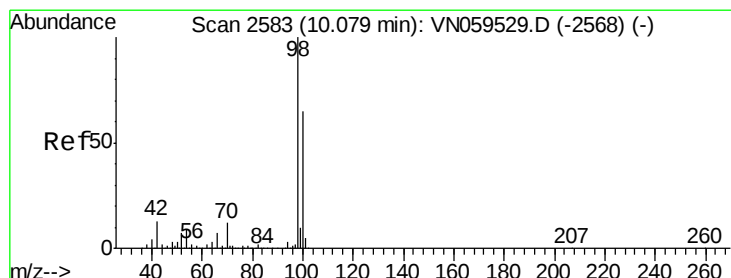
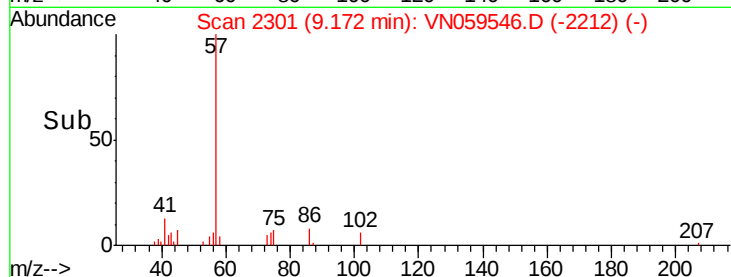
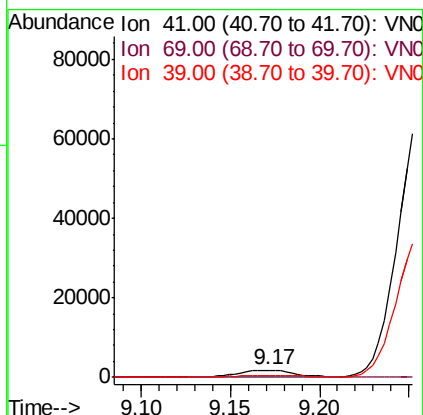
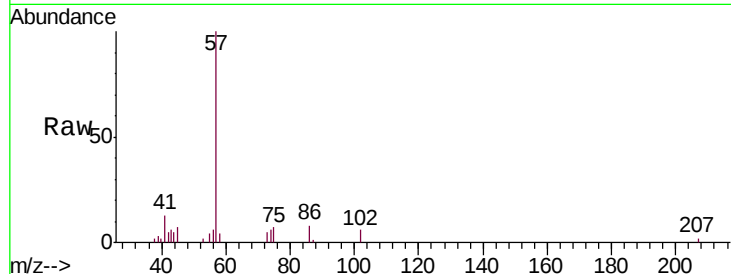




#48
Methyl methacrylate
Concen: 1.297 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.01 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

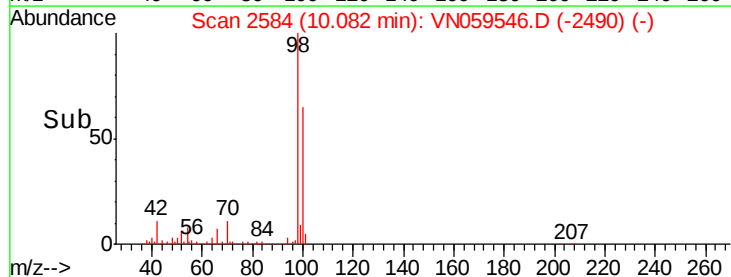
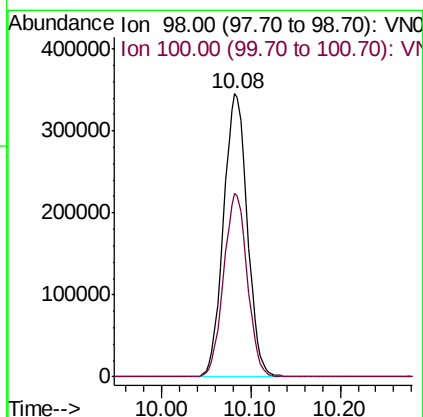
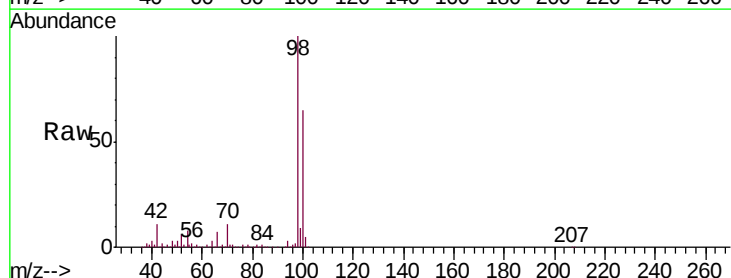
Instrument :
MSVOA_N
ClientSampleId :
K072-AA-WC-2

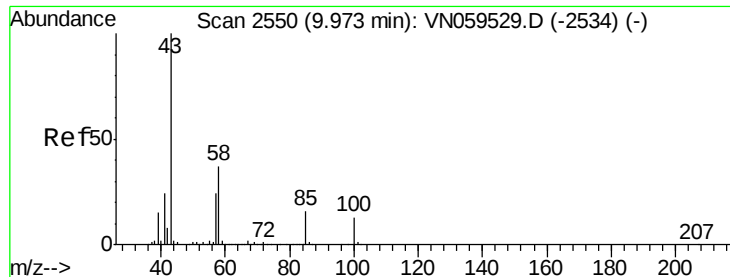
Tgt Ion: 41 Resp: 4179
Ion Ratio Lower Upper
41 100
69 0.0 64.0 96.0#
39 0.0 50.0 75.0#



#50
Toluene-d8
Concen: 62.871 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

Tgt Ion: 98 Resp: 637107
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 0.625 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampled :

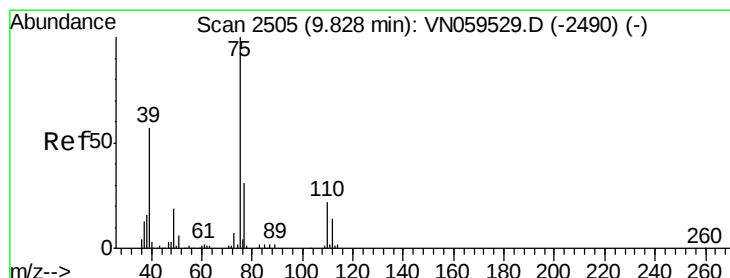
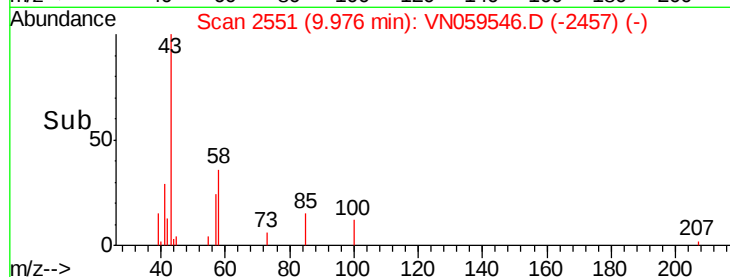
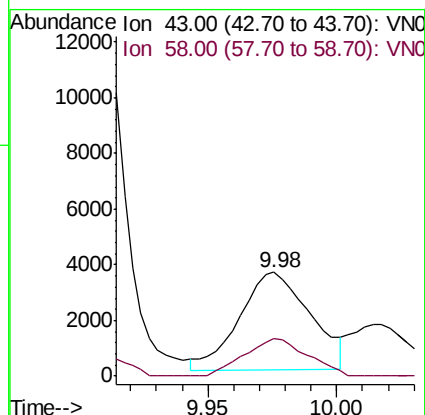
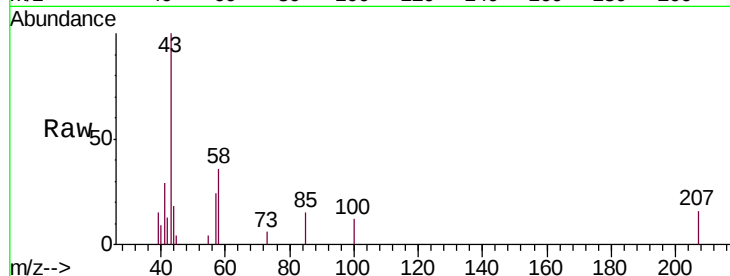
K072-AA-WC-2

Tgt Ion: 43 Resp: 6711

Ion Ratio Lower Upper

43 100

58 34.8 30.1 45.1



#54

cis-1,3-Dichloropropene

Concen: 6.071 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

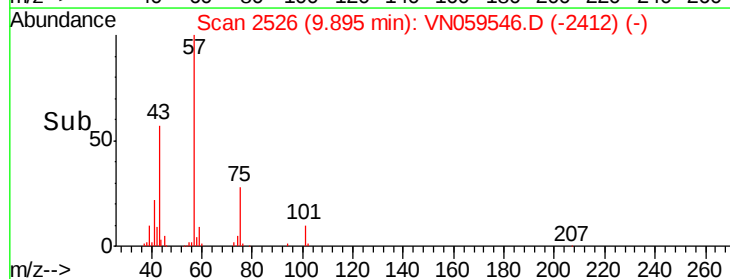
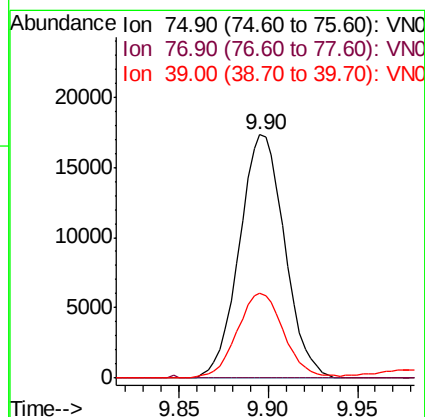
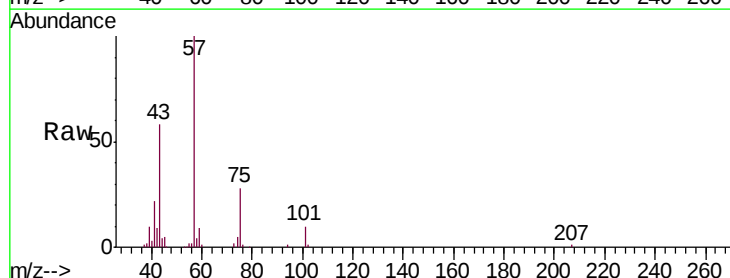
Tgt Ion: 75 Resp: 30710

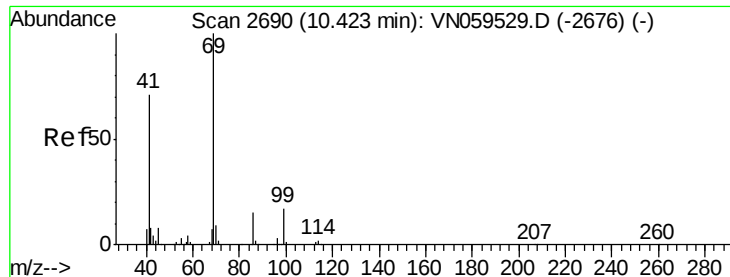
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 35.1 45.6 68.4#





#56

Ethyl methacrylate

Concen: 2.340 ug/l

RT: 10.53 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

K072-AA-WC-2

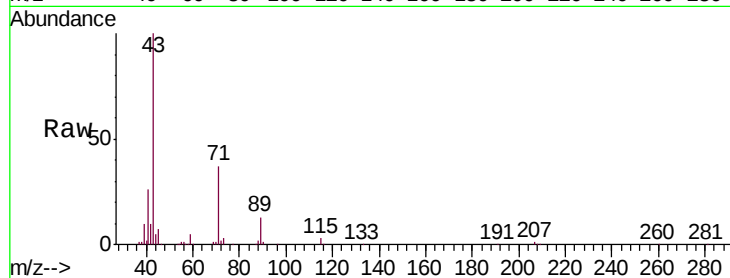
Tgt Ion: 69 Resp: 1124

Ion Ratio Lower Upper

69 100

41 5283.3 57.7 86.5#

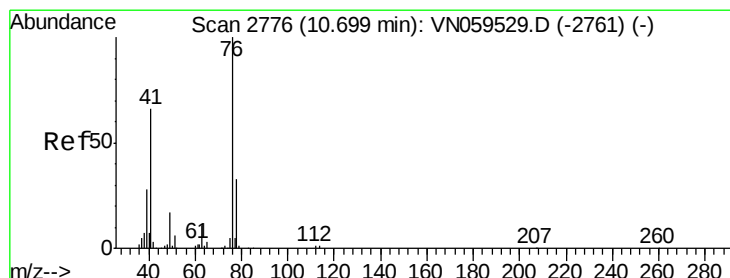
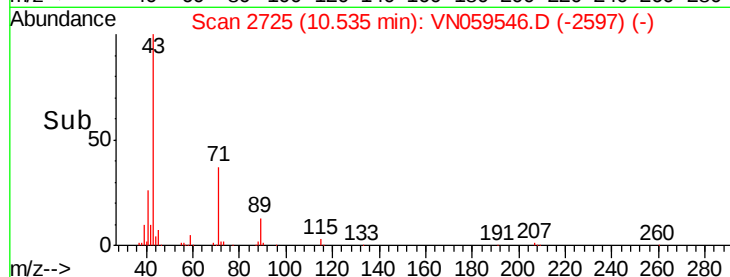
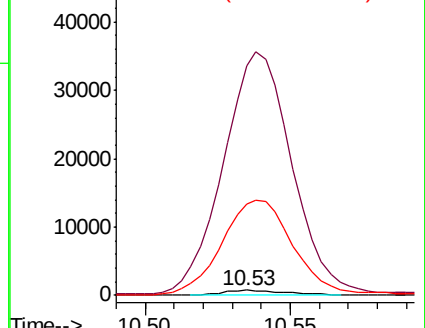
39 2138.4 34.2 51.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.139 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059546.D

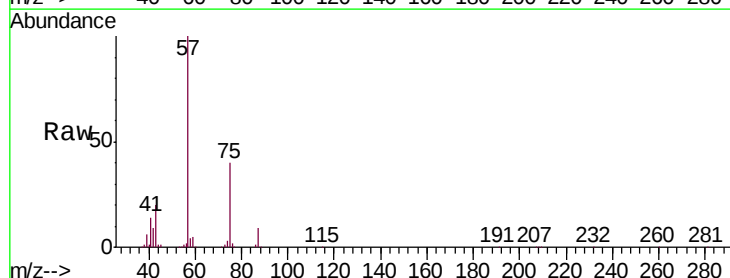
Acq: 10 Dec 2019 14:48

Tgt Ion: 76 Resp: 5716

Ion Ratio Lower Upper

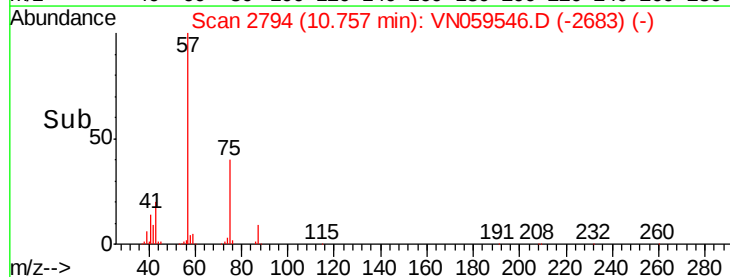
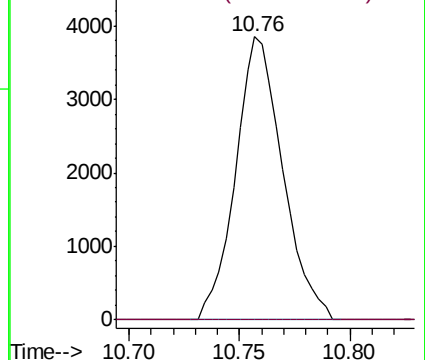
76 100

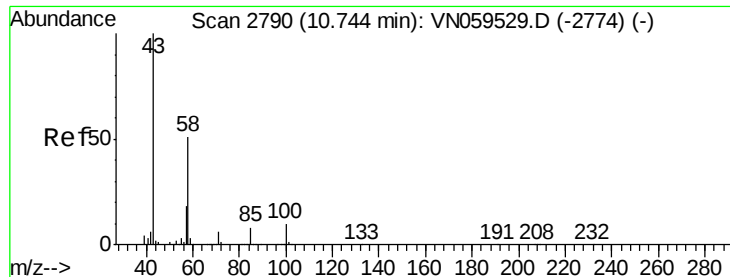
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

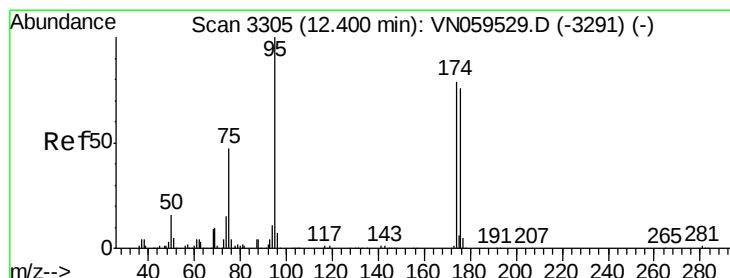
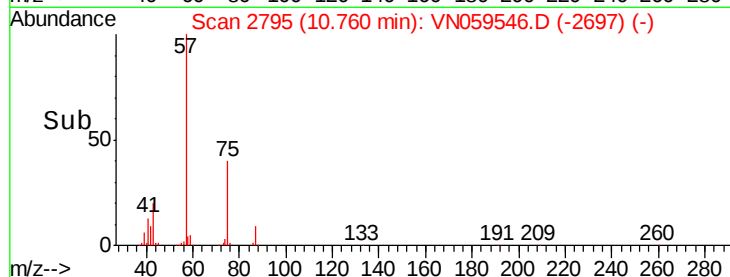
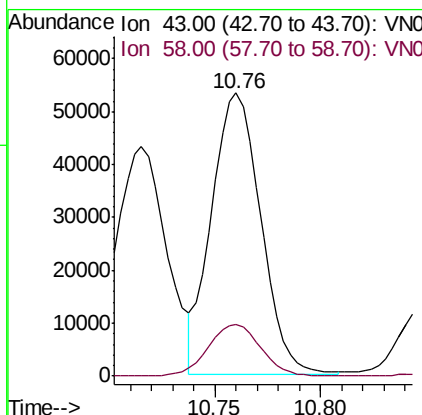
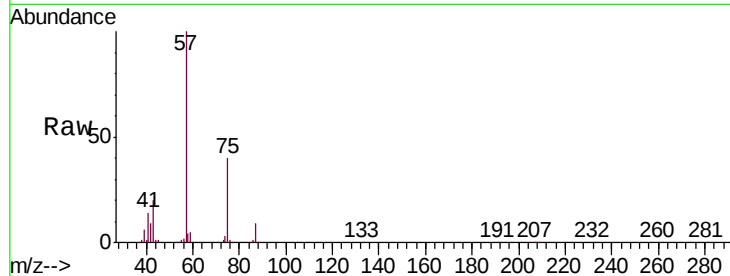




#59
2-Hexanone
Concen: 26.137 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

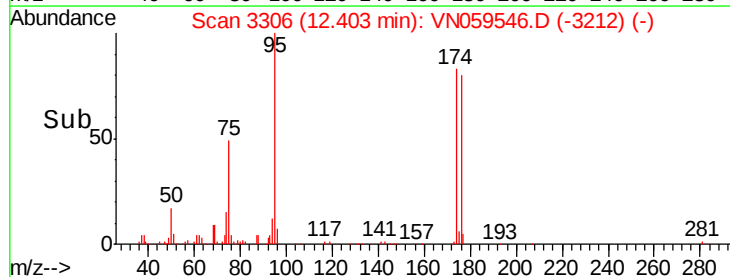
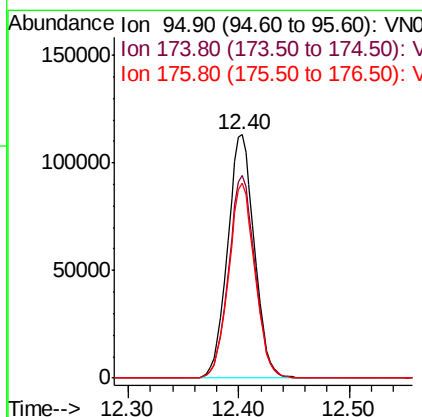
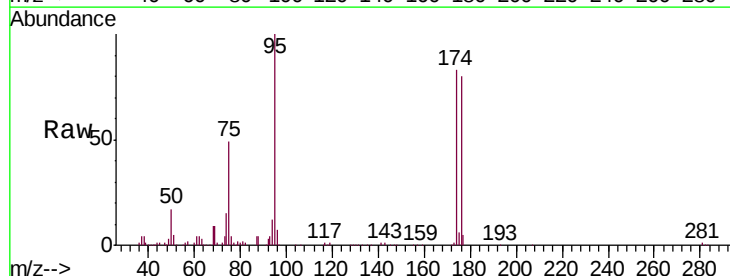
Instrument :
MSVOA_N
ClientSampleId :
K072-AA-WC-2

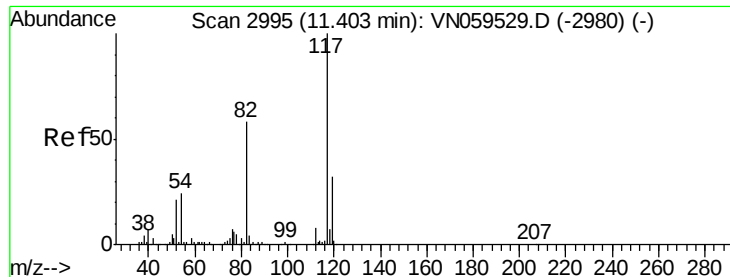
Tgt Ion: 43 Resp: 86292
Ion Ratio Lower Upper
43 100
58 19.6 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 50.740 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

Tgt Ion: 95 Resp: 190330
Ion Ratio Lower Upper
95 100
174 82.0 0.0 158.0
176 78.7 0.0 155.4

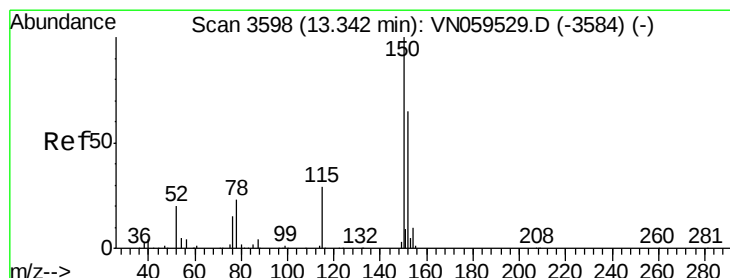
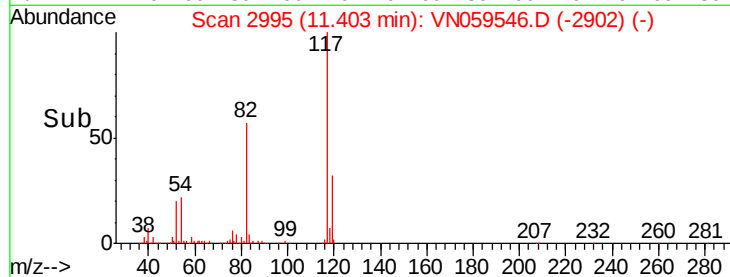
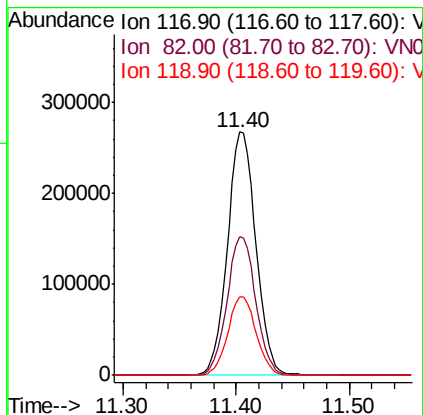
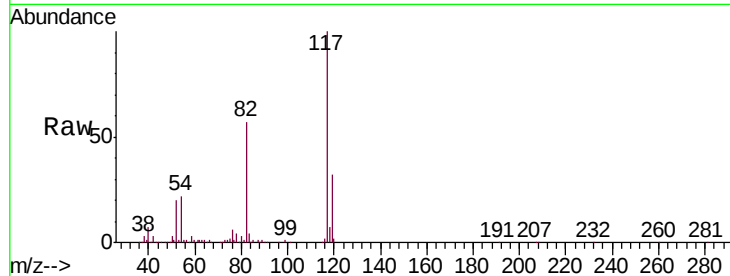




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

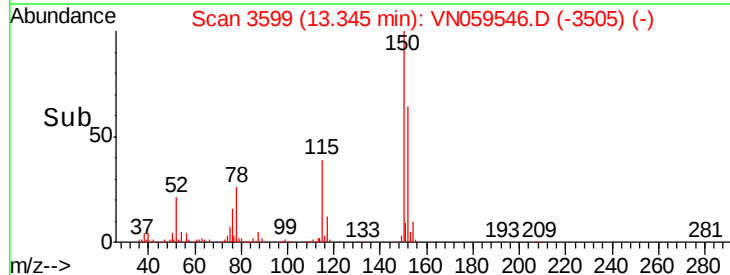
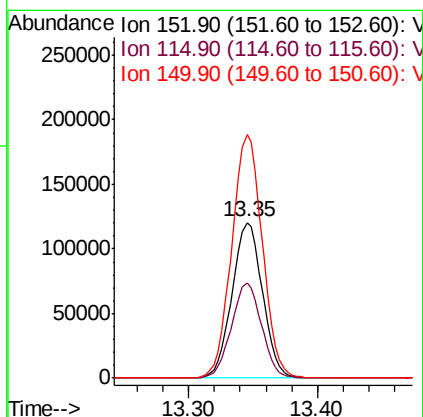
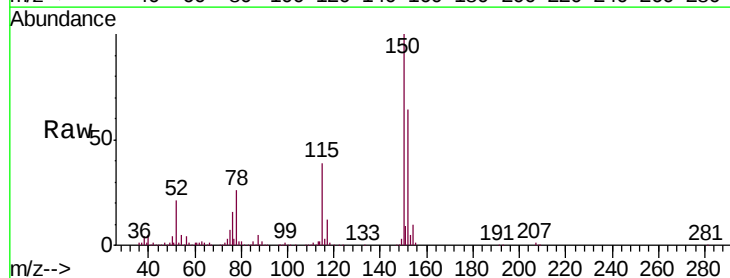
Instrument :
MSVOA_N
ClientSampleId :
K072-AA-WC-2

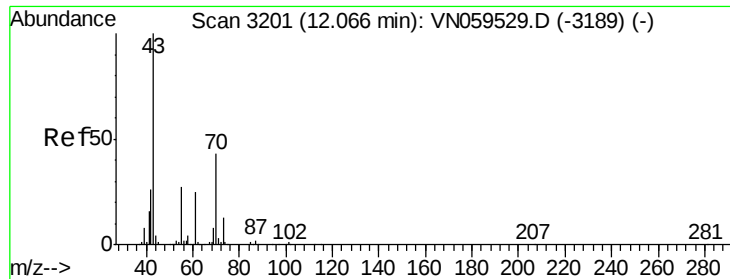
Tgt Ion:117 Resp: 468183
Ion Ratio Lower Upper
117 100
82 56.7 46.5 69.7
119 32.2 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN059546.D
Acq: 10 Dec 2019 14:48

Tgt Ion:152 Resp: 197800
Ion Ratio Lower Upper
152 100
115 60.6 29.4 88.2
150 157.0 0.0 342.4





#74

N-ethyl acetate

Concen: 0.587 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

K072-AA-WC-2

Tgt Ion: 43 Resp: 3794

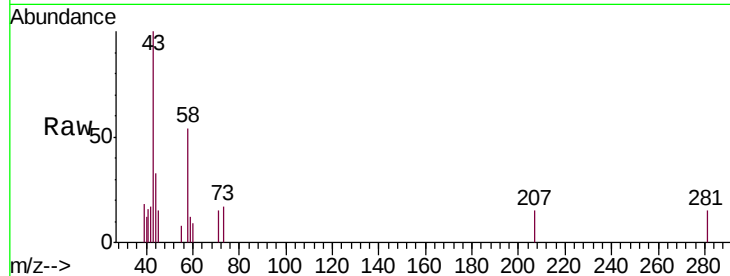
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.4#

55 4.8 21.3 31.9#

61 0.0 19.8 29.8#

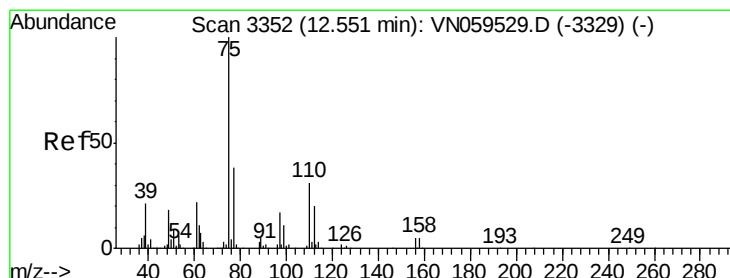
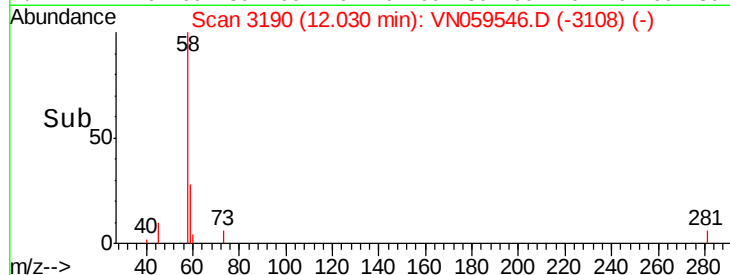
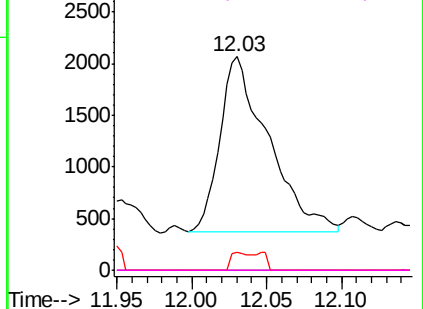


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 18.000 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059546.D

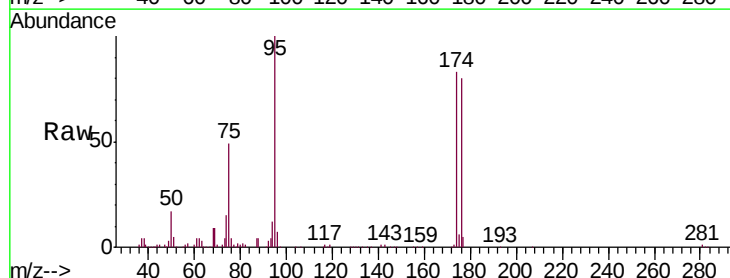
Acq: 10 Dec 2019 14:48

Tgt Ion: 75 Resp: 91050

Ion Ratio Lower Upper

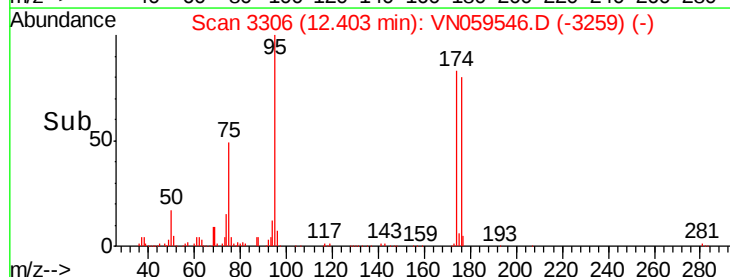
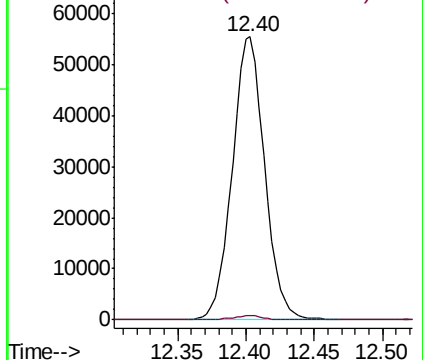
75 100

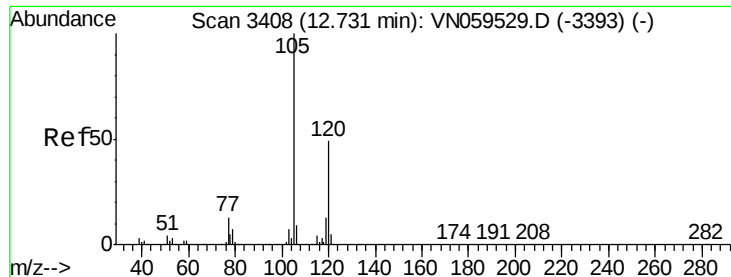
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.239 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

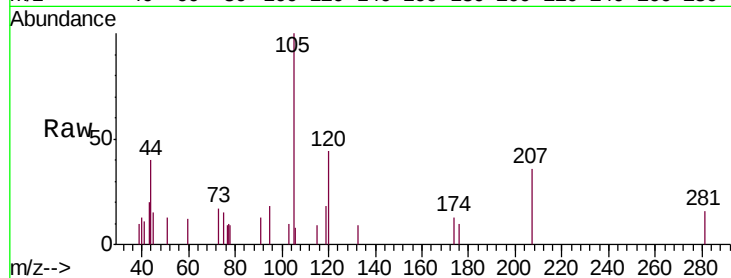
K072-AA-WC-2

Tgt Ion: 105 Resp: 3042

Ion Ratio Lower Upper

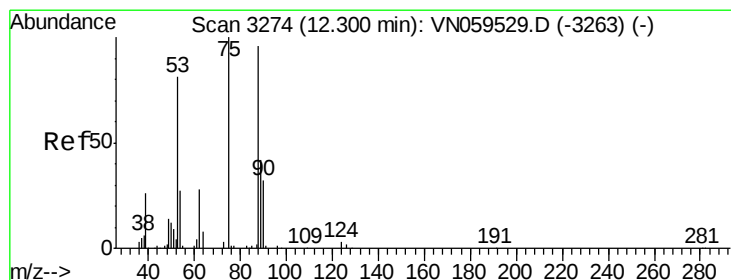
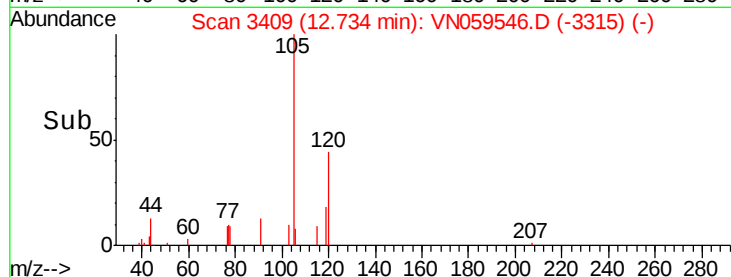
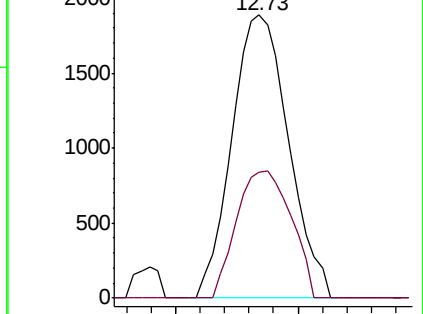
105 100

120 43.4 24.5 73.5



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: 48.430 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

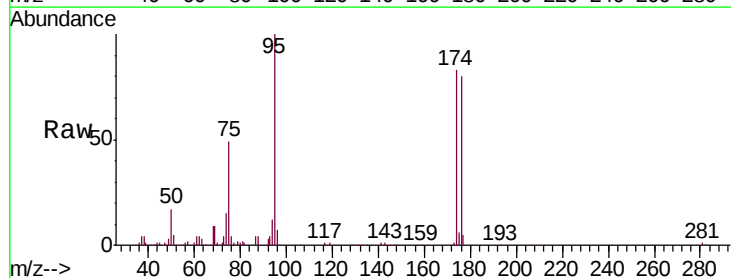
Tgt Ion: 75 Resp: 91050

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.6#

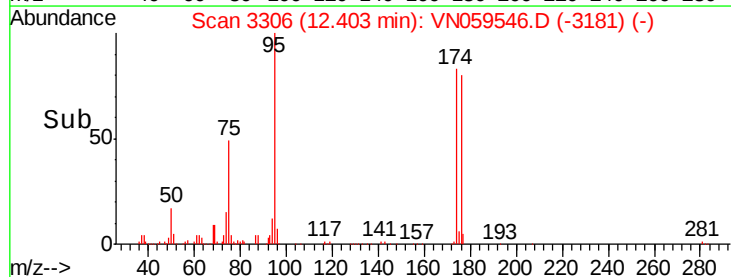
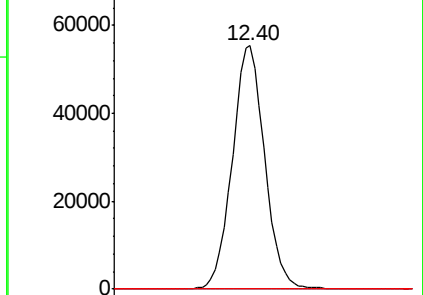
89 0.0 35.5 53.3#

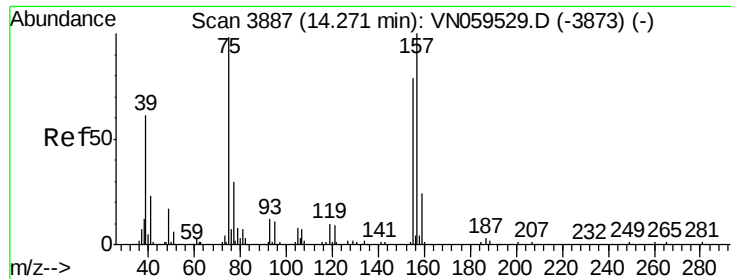


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.124 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.01 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

K072-AA-WC-2

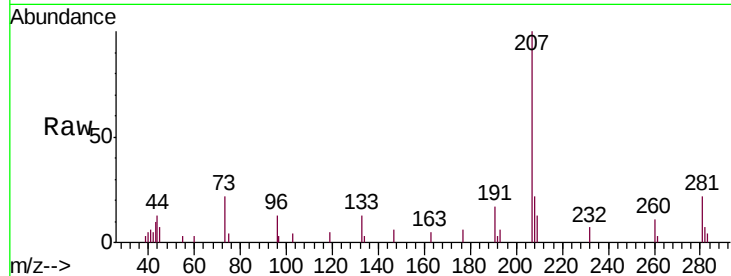
Tgt Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.1#

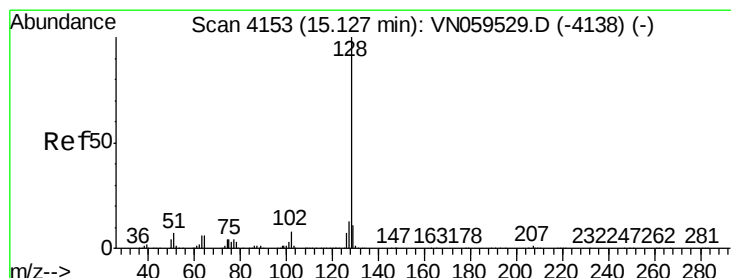
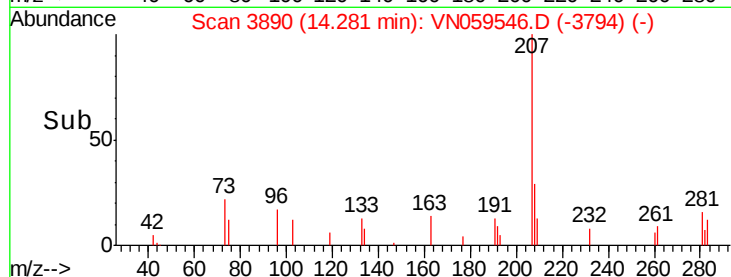
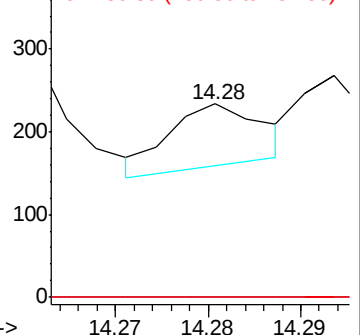
157 0.0 51.1 153.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 0.221 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059546.D

Acq: 10 Dec 2019 14:48

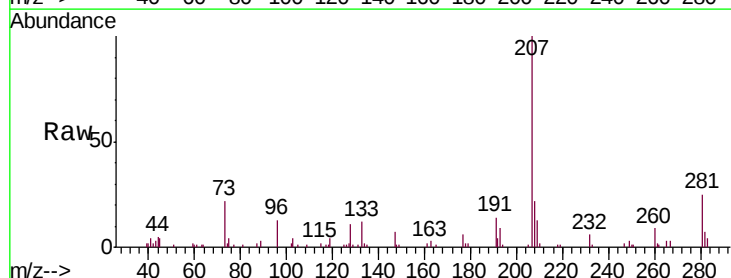
Tgt Ion: 128 Resp: 2855

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

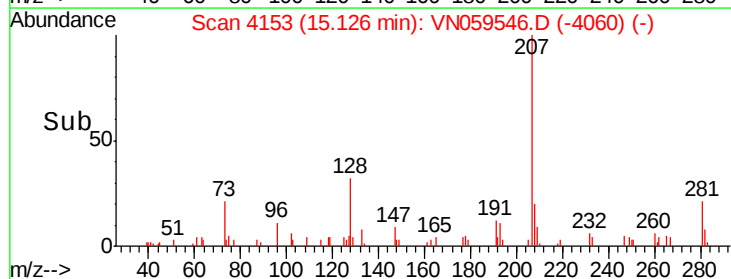
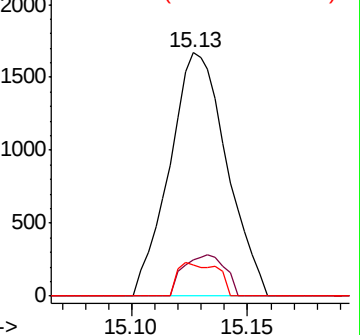
129 9.5 8.6 13.0

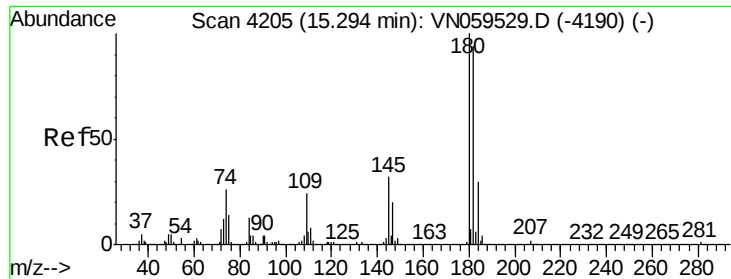


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.453 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN059546.D
 Acq: 10 Dec 2019 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 K072-AA-WC-2

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.1	141.4#
145	95.8	15.8	47.4#

