

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056023.D
 Acq On : 5 Jun 2019 23:03
 Operator : JC/SP
 Sample : K3180-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Jun 06 04:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55696	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	304109	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	253891	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	106960	30.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.10%
60) 4-Bromofluorobenzene	12.40	95	93280	24.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	82.63%
63) Toluene-d8	10.09	98	353872	30.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.43%

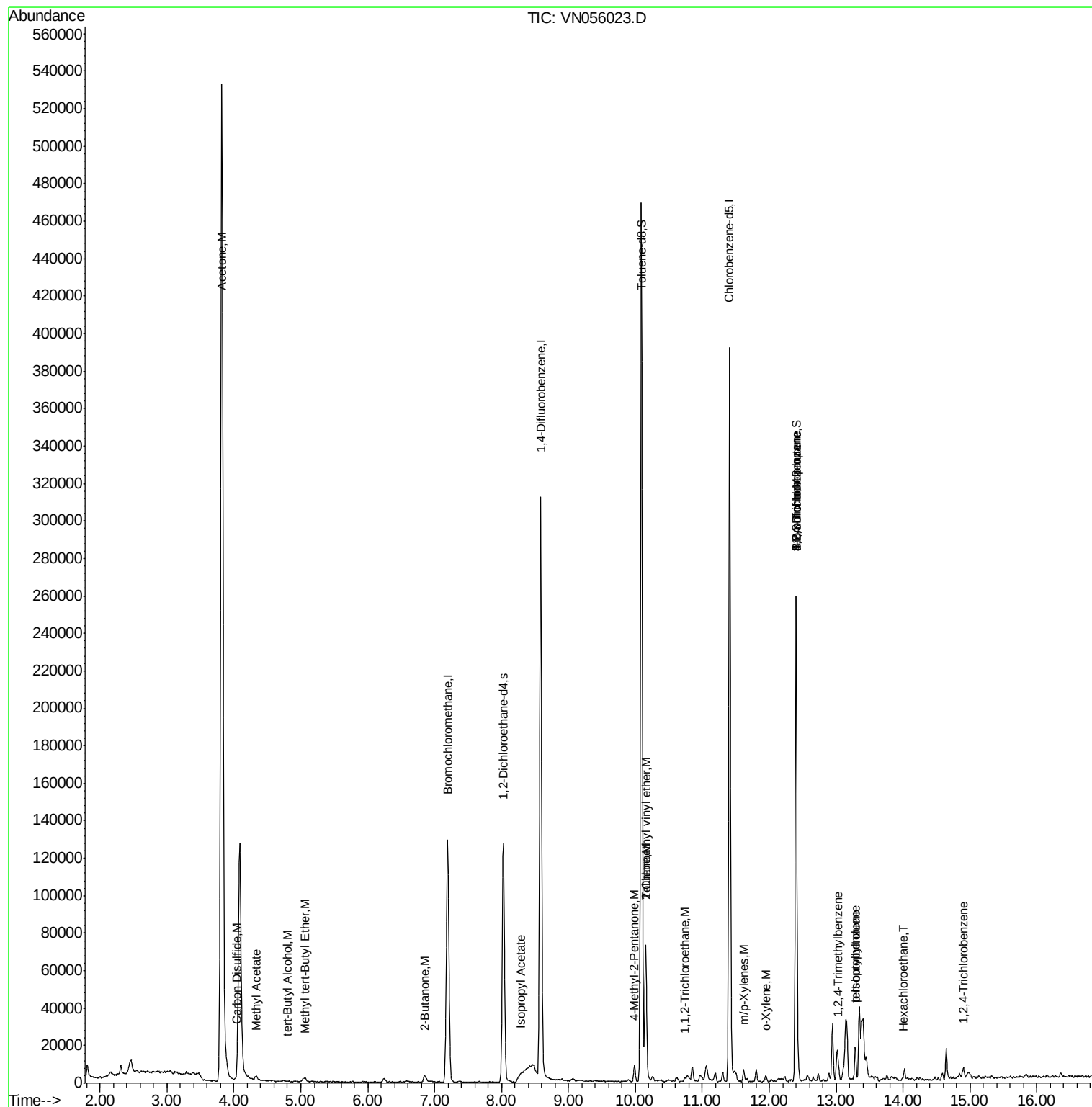
Target Compounds					Ovalue
12) Methyl Acetate	4.33	43	3537	1.012	ug/l # 79
15) Acetone	3.82	58	291683	571.778	ug/l 96
16) Carbon Disulfide	4.03	76	1641	0.237	ug/l # 75
23) tert-Butyl Alcohol	4.81	59	290	0.478	ug/l # 100
24) Methyl tert-Butyl Ether	5.06	73	4191	0.452	ug/l # 60
30) 2-Butanone	6.85	43	7500	3.463	ug/l # 81
44) Isopropyl Acetate	8.28	43	3789	0.589	ug/l # 55
50) 1,1,2-Trichloroethane	10.74	97	956	0.289	ug/l # 16
55) 2-Chloroethyl vinyl ether	10.15	63	3912	2.233	ug/l # 1
56) Bromoform	12.40	173	513	0.219	ug/l # 1
58) 4-Methyl-2-Pentanone	9.99	43	7385	1.921	ug/l 92
62) Toluene	10.16	91	57999	4.232	ug/l 99
67) m/p-Xylenes	11.62	106	2273	0.407	ug/l 91
68) o-Xylene	11.94	106	1225	0.224	ug/l 98
72) 1,2,3-Trichloropropane	12.40	75	42761	11.463	ug/l 1
77) t-1,4-Dichloro-2-butene	12.40	75	42761	40.173	ug/l # 11
79) tert-butylbenzene	13.29	119	2845	0.273	ug/l 69
80) 1,2,4-Trimethylbenzene	13.04	105	4042	0.353	ug/l 85
82) p-Isopropyltoluene	13.29	119	2845	0.239	ug/l 93
86) Hexachloroethane	13.99	117	807	0.435	ug/l # 2
89) 1,2,4-Trichlorobenzene	14.91	180	307	8.623	ug/l # 83

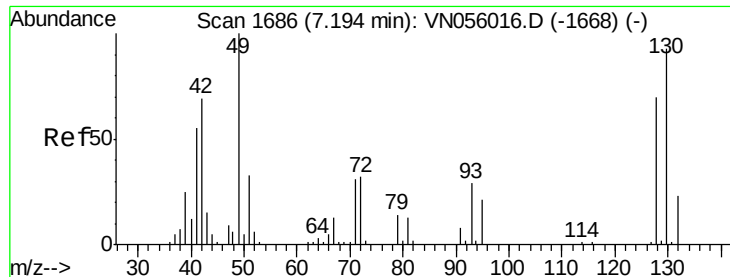
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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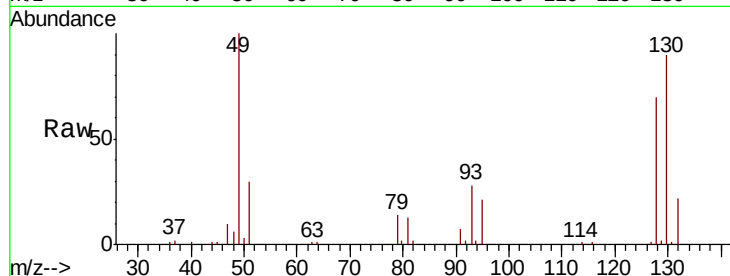




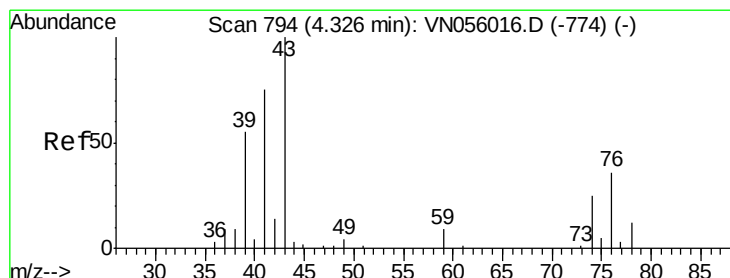
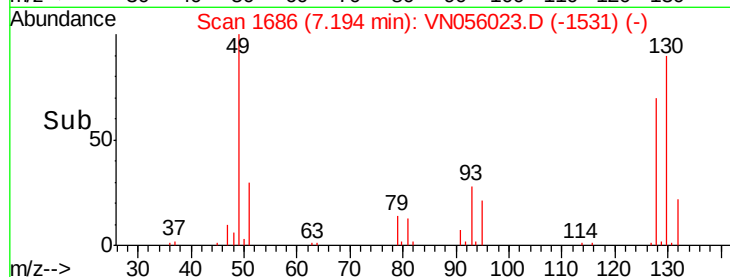
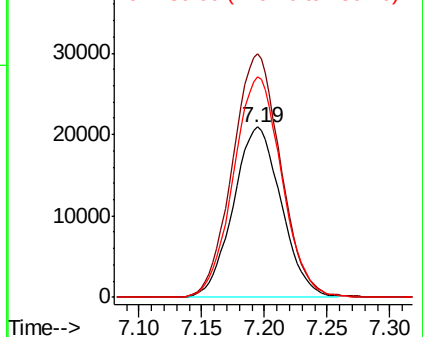
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

Tot Ion:128 Resp: 55696
 Ion Ratio Lower Upper
 128 100
 49 142.8 0.0 355.8
 130 130.4 0.0 326.3

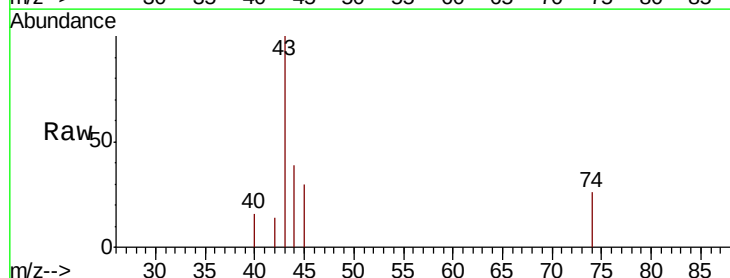


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

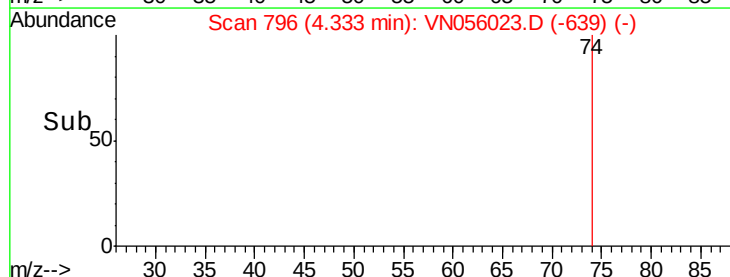
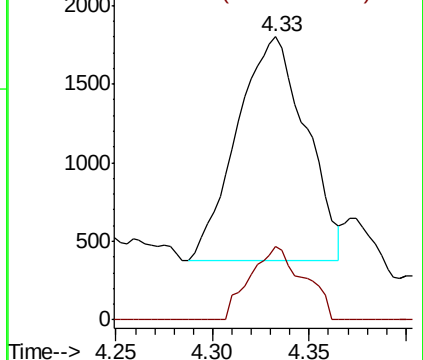


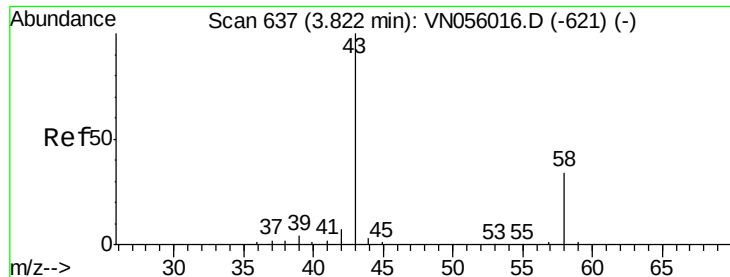
#12
 Methyl Acetate
 Concen: 1.012 ug/l
 RT: 4.33 min Scan# 796
 Delta R.T. 0.01 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Tgt Ion: 43 Resp: 3537
 Ion Ratio Lower Upper
 43 100
 74 35.6 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 571.778 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

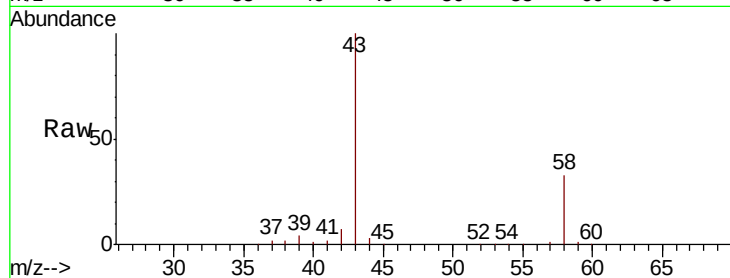
002-35TH-AVE(JUNE)

Tot Ion: 58 Resp: 291683

Ion Ratio Lower Upper

58 100

43 298.3 232.5 348.7



Abundance Ion 58.00 (57.70 to 58.70): VN056016.D (-621) (-)

Ion 43.00 (42.70 to 43.70): VN056016.D (-621) (-)

400000

300000

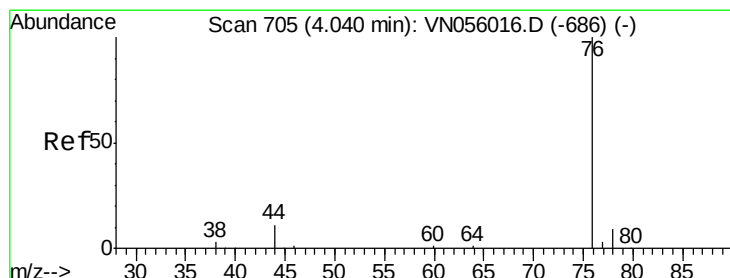
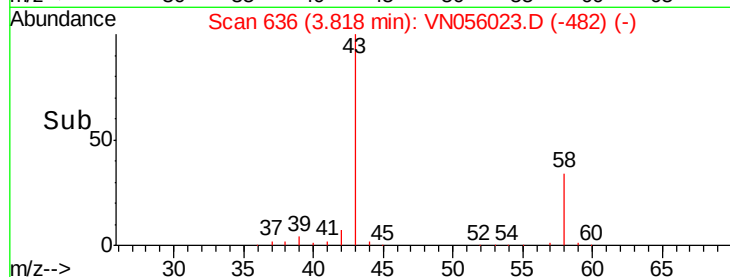
200000

100000

0

3.70 3.80 3.90

Time-->



#16

Carbon Disulfide

Concen: 0.237 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN056023.D

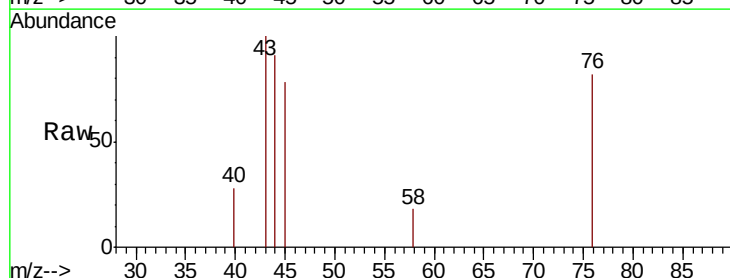
Acq: 5 Jun 2019 23:03

Tgt Ion: 76 Resp: 1641

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN056016.D (-686) (-)

Ion 78.00 (77.70 to 78.70): VN056016.D (-686) (-)

800

600

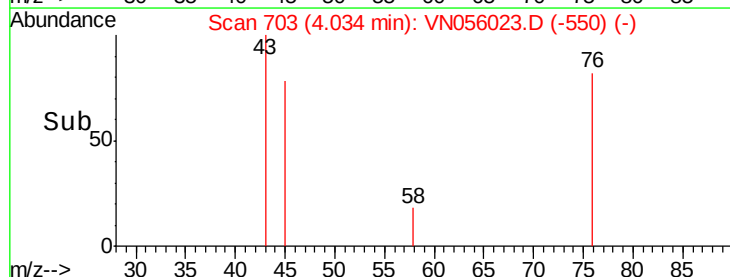
400

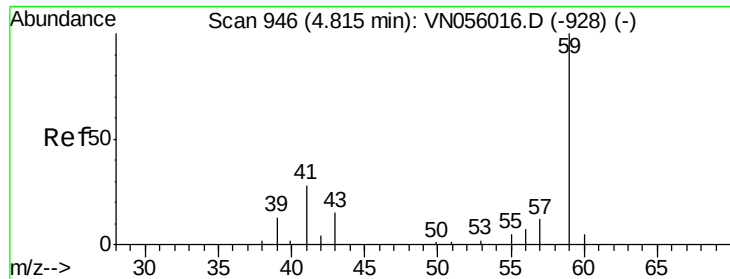
200

0

4.00 4.05

Time-->



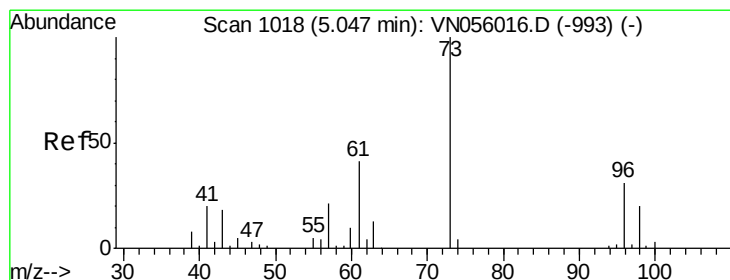
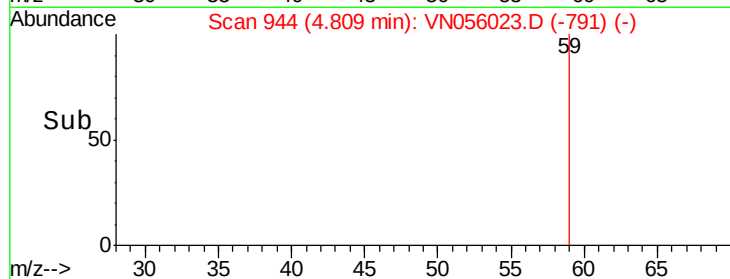
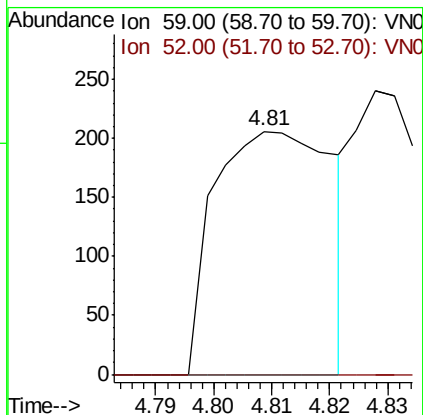
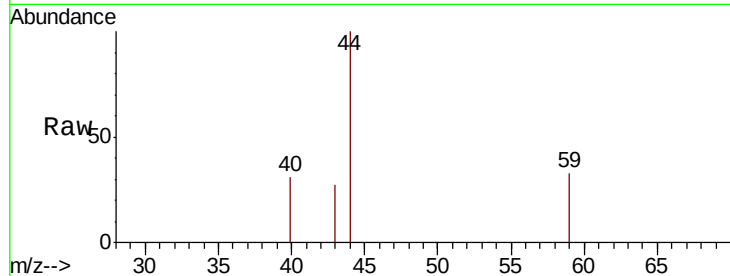


#23

tert-Butyl Alcohol
Concen: 0.478 ug/l
RT: 4.81 min Scan# 944
Delta R.T. -0.01 min
Lab File: VN056023.D
Acq: 5 Jun 2019 23:03

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

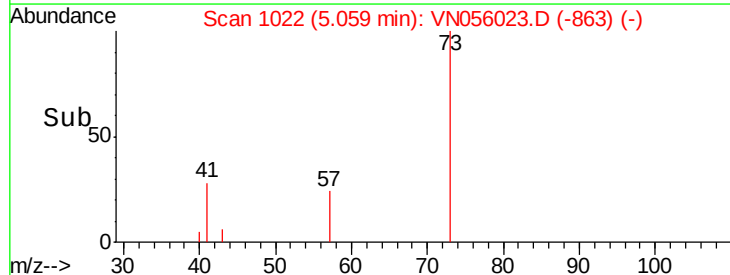
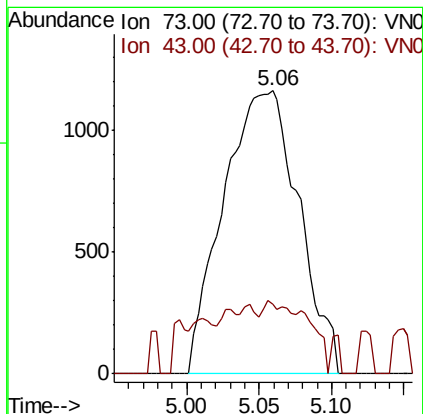
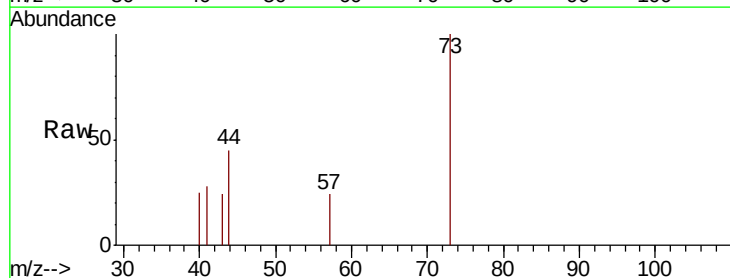
Tot Ion: 59 Resp: 290
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

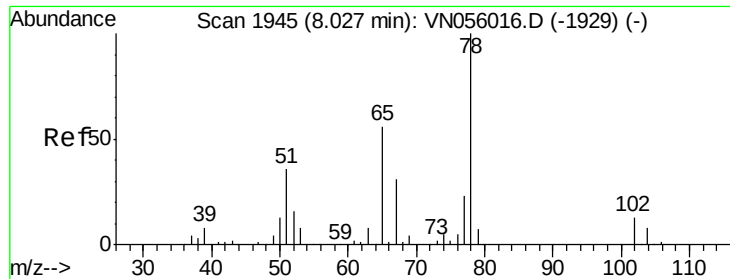


#24

Methyl tert-Butyl Ether
Concen: 0.452 ug/l
RT: 5.06 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VN056023.D
Acq: 5 Jun 2019 23:03

Tgt Ion: 73 Resp: 4191
Ion Ratio Lower Upper
73 100
43 0.9 15.4 23.0#

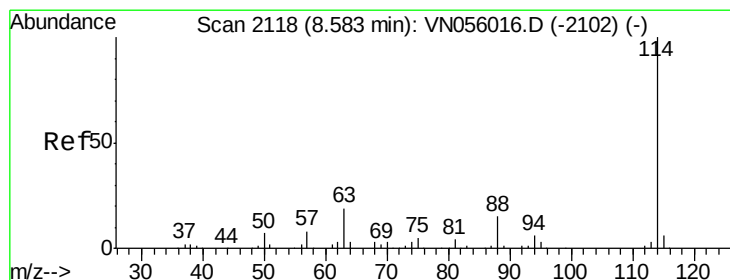
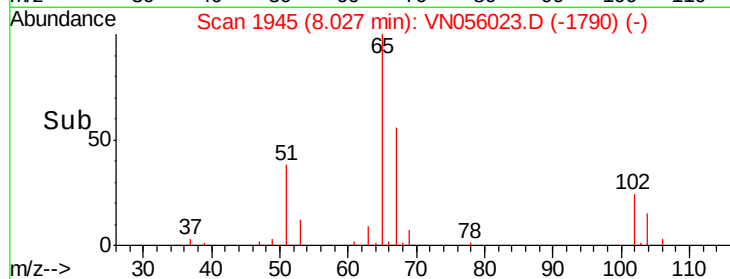
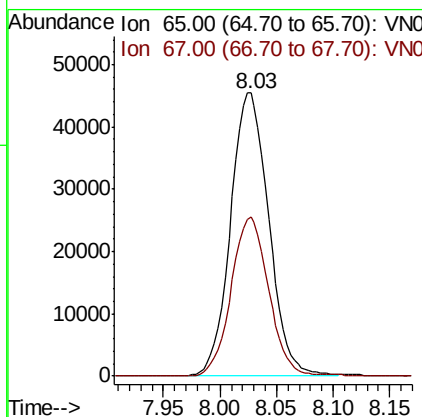
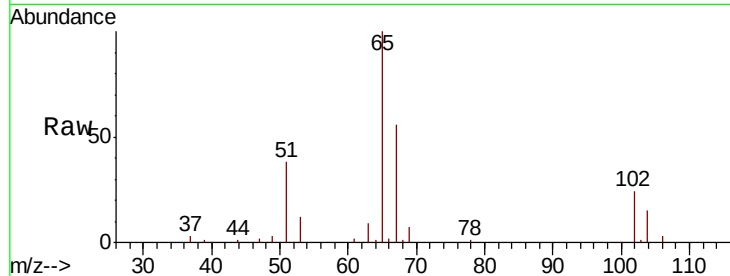




#27
 1,2-Dichloroethane-d4
 Concen: 30.925 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

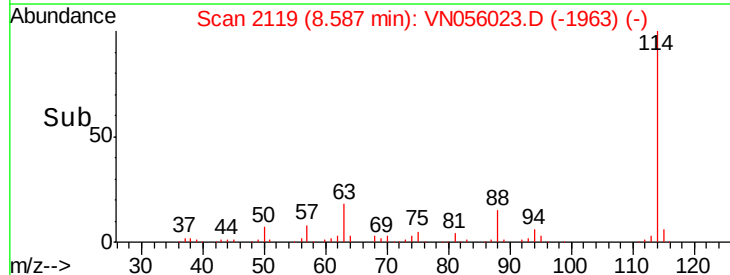
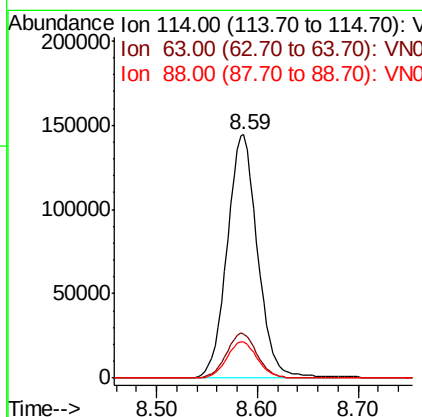
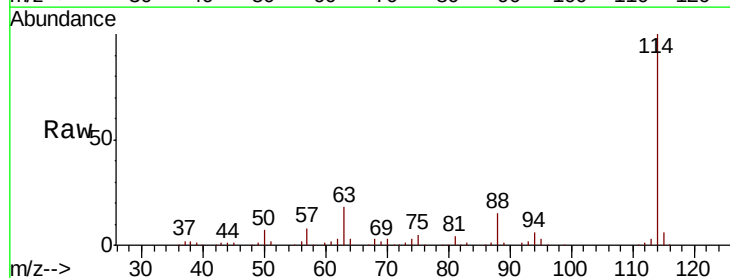
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

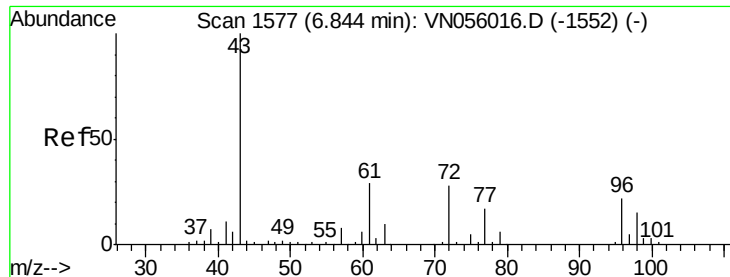
Tot Ion: 65 Resp: 106960
 Ion Ratio Lower Upper
 65 100
 67 55.1 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Tgt Ion: 114 Resp: 304109
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.7 22.1
 88 15.0 11.9 17.9

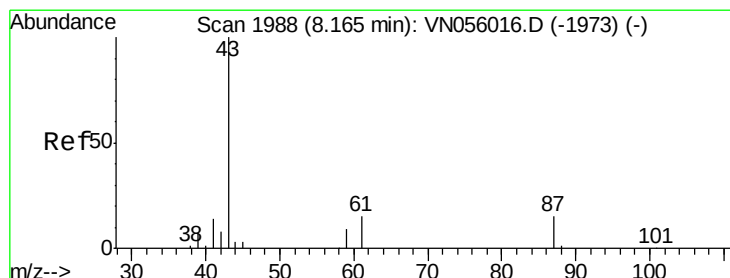
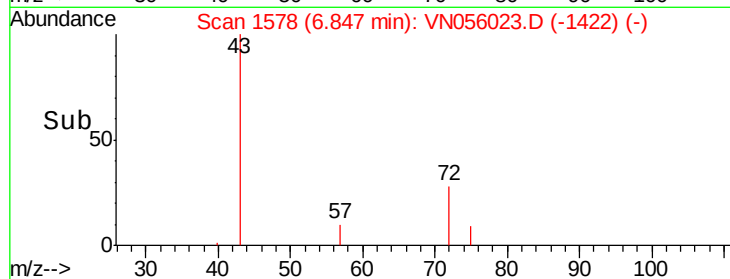
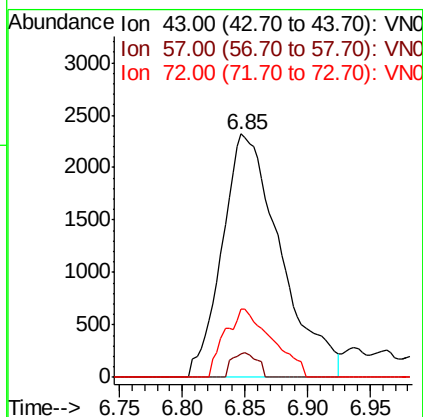
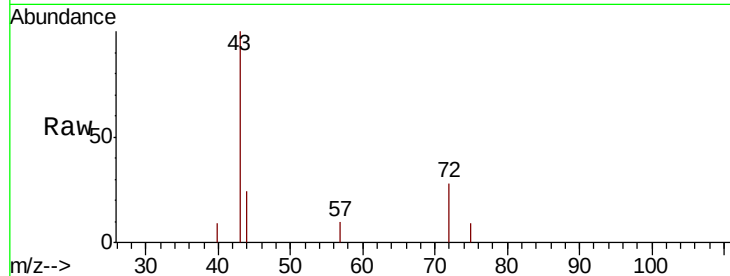




#30
 2-Butanone
 Concen: 3.463 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

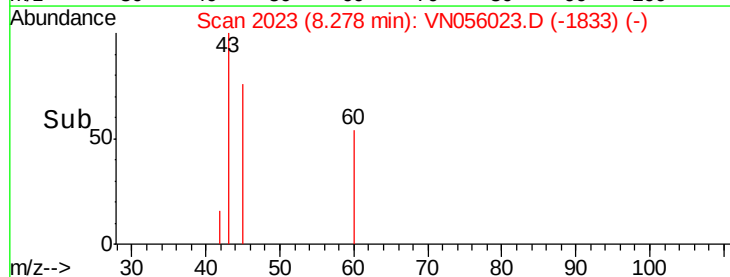
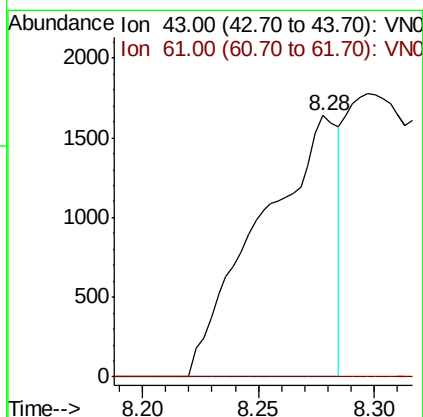
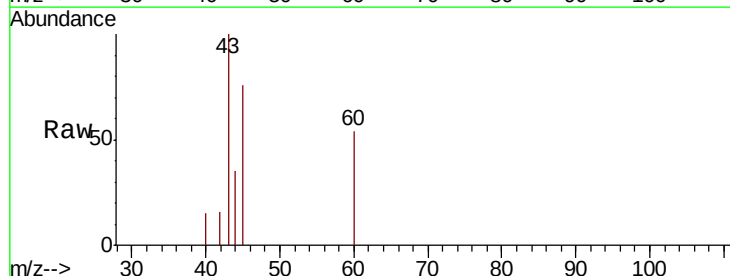
Instrument :
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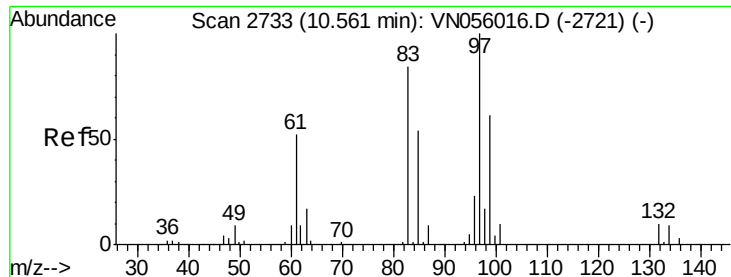
Tot Ion: 43 Resp: 7500
 Ion Ratio Lower Upper
 43 100
 57 4.0 6.7 10.1#
 72 17.1 22.4 33.6#



#44
 Isopropyl Acetate
 Concen: 0.589 ug/l
 RT: 8.28 min Scan# 2023
 Delta R.T. 0.11 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Tgt Ion: 43 Resp: 3789
 Ion Ratio Lower Upper
 43 100
 61 0.0 16.9 25.3#

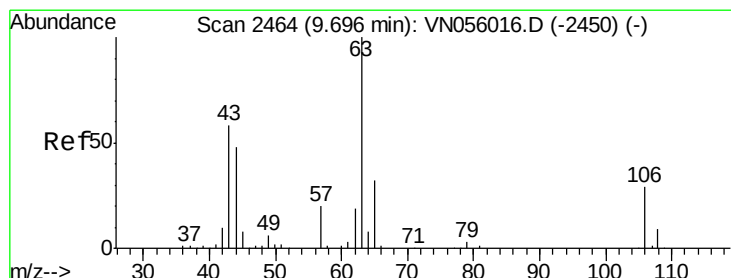
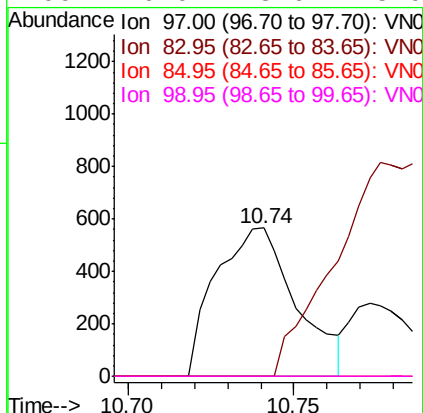
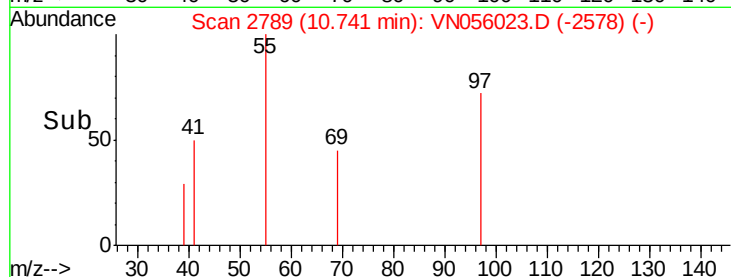
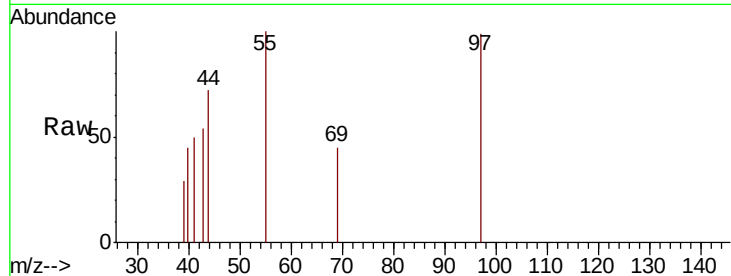




#50
 1,1,2-Trichloroethane
 Concen: 0.289 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.18 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

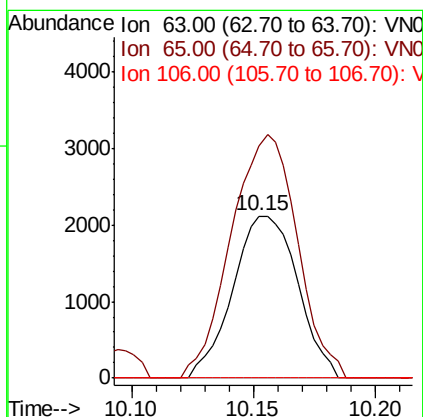
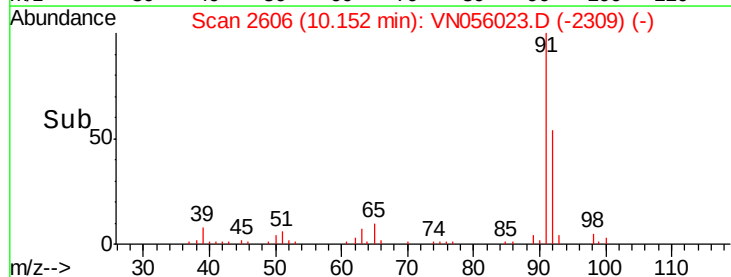
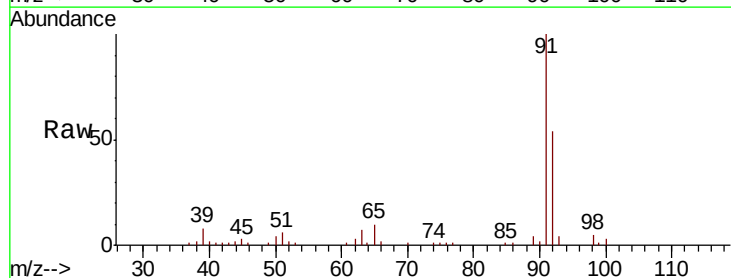
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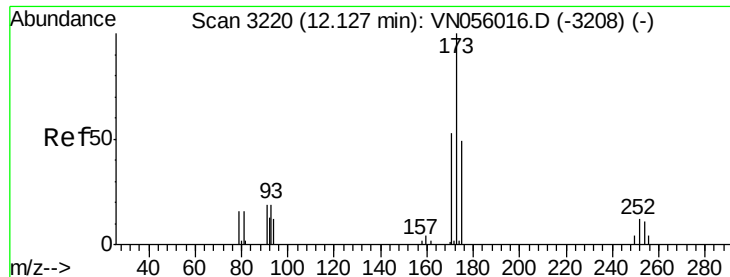
Tot Ion: 97 Resp: 956
 Ion Ratio Lower Upper
 97 100
 83 0.0 66.9 100.3#
 85 0.0 43.3 64.9#
 99 0.0 48.6 73.0#



#55
 2-Chloroethyl vinyl ether
 Concen: 2.233 ug/l
 RT: 10.15 min Scan# 2606
 Delta R.T. 0.46 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Tgt Ion: 63 Resp: 3912
 Ion Ratio Lower Upper
 63 100
 65 153.0 25.5 38.3#
 106 0.0 23.0 34.4#





#56

Bromoform

Concen: 0.219 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

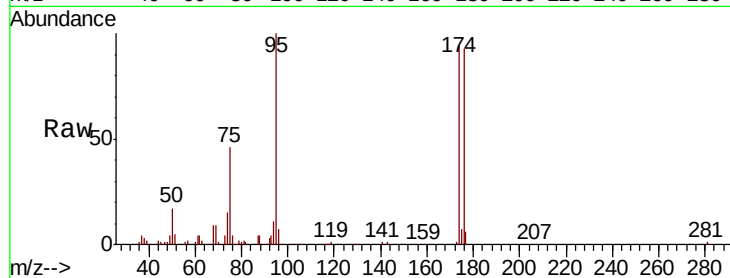
Tot Ion:173 Resp: 513

Ion Ratio Lower Upper

173 100

175 1227.7 38.7 58.1#

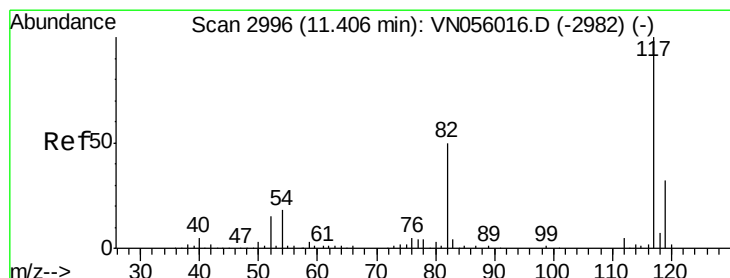
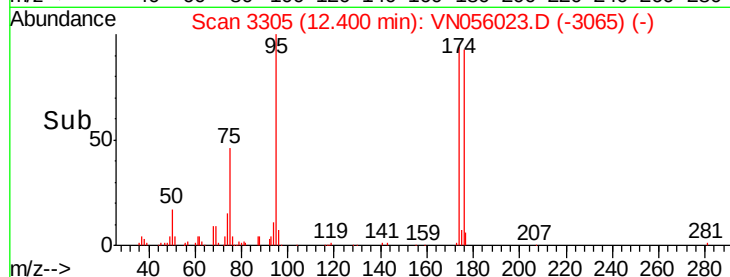
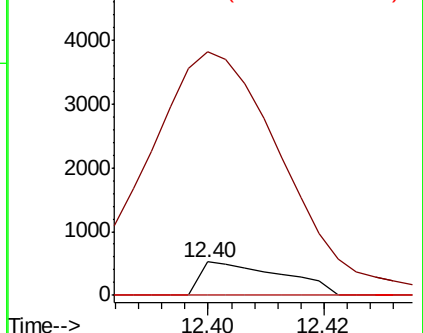
254 0.0 6.6 9.8#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

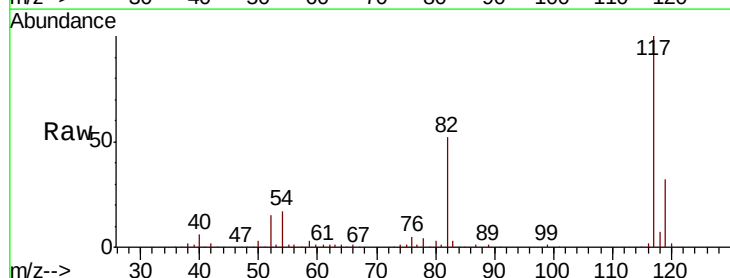
Tgt Ion:117 Resp: 253891

Ion Ratio Lower Upper

117 100

82 51.1 41.2 61.8

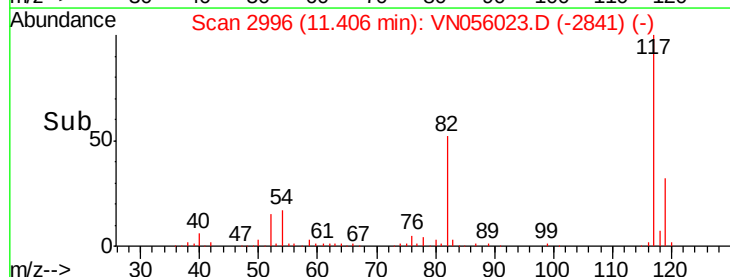
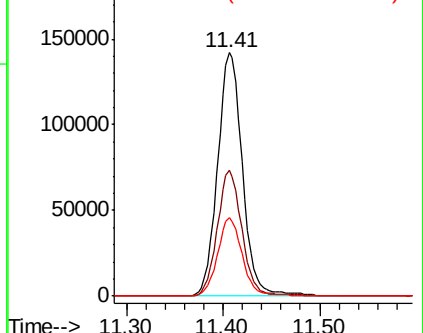
119 32.0 26.2 39.2

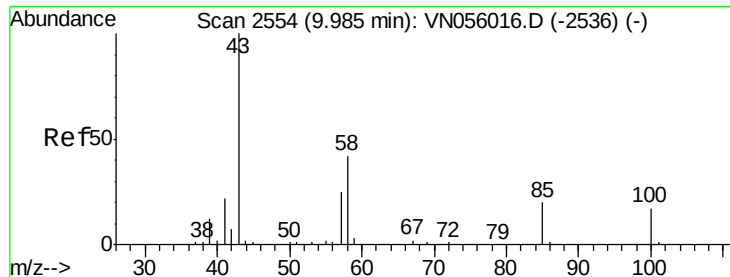


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

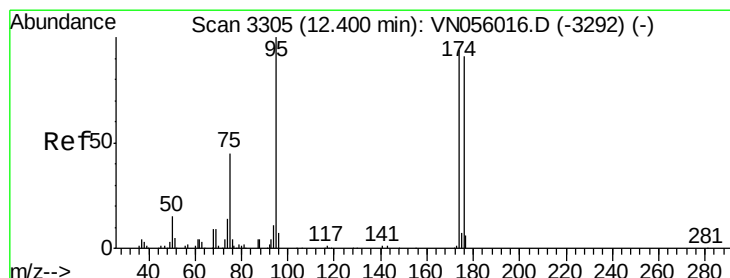
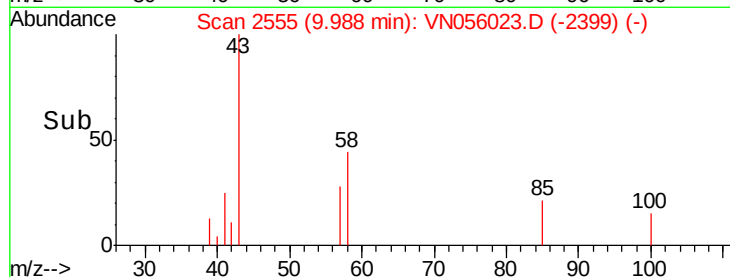
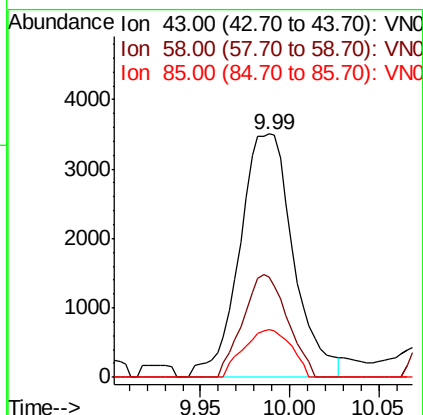
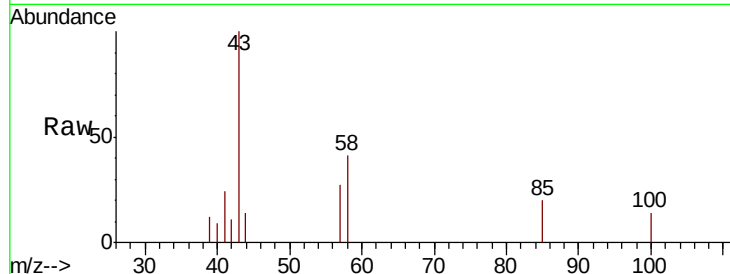




#58
 4-Methyl-2-Pentanone
 Concen: 1.921 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

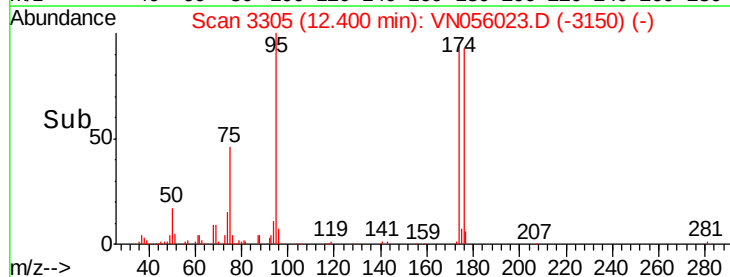
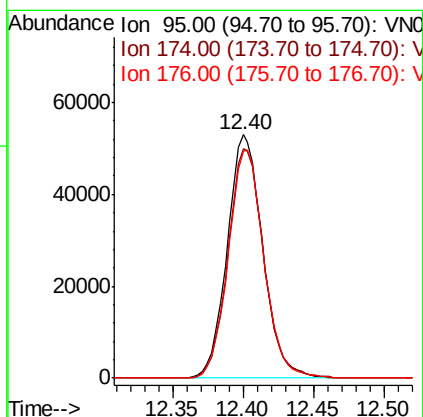
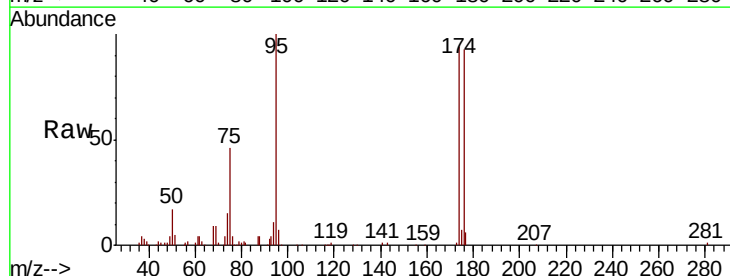
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

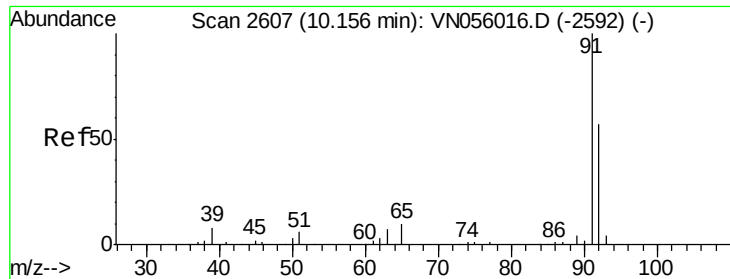
Tot Ion: 43 Resp: 7385
 Ion Ratio Lower Upper
 43 100
 58 35.1 33.1 49.7
 85 17.3 15.5 23.3



#60
 4-Bromofluorobenzene
 Concen: 24.787 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056023.D
 Acq: 5 Jun 2019 23:03

Tgt Ion: 95 Resp: 93280
 Ion Ratio Lower Upper
 95 100
 174 95.2 75.4 113.0
 176 94.0 73.9 110.9





#62

Toluene

Concen: 4.232 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

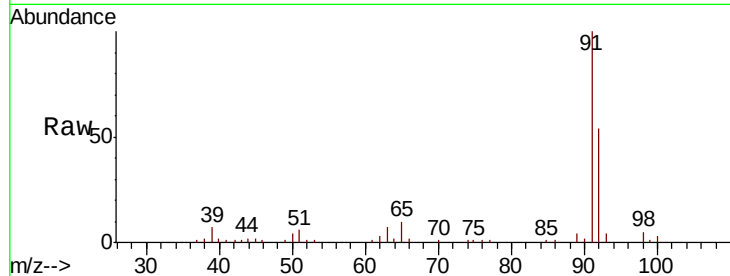
002-35TH-AVE(JUNE)

Tot Ion: 91 Resp: 57999

Ion Ratio Lower Upper

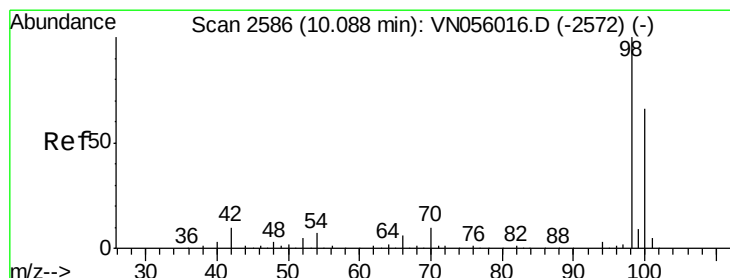
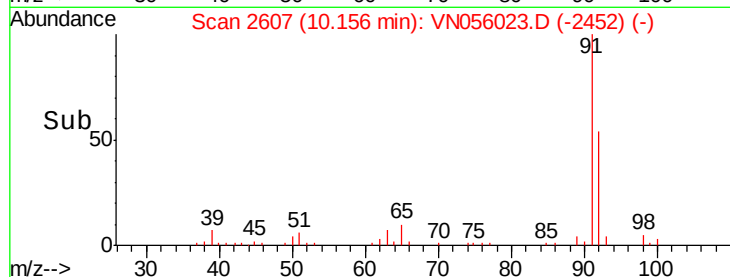
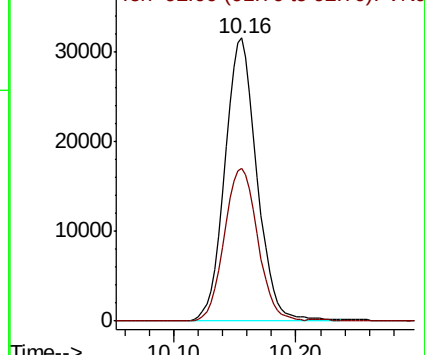
91 100

92 56.2 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0



#63

Toluene-d8

Concen: 30.725 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056023.D

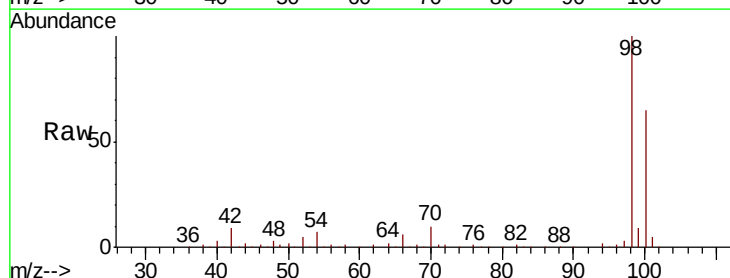
Acq: 5 Jun 2019 23:03

Tgt Ion: 98 Resp: 353872

Ion Ratio Lower Upper

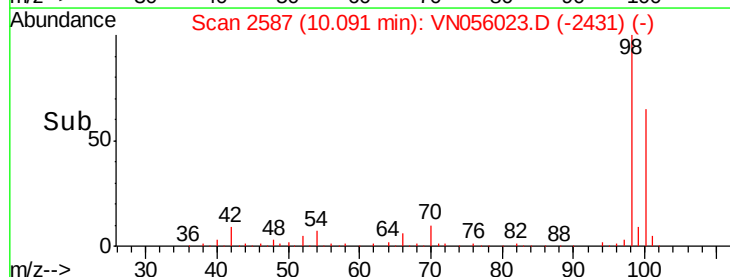
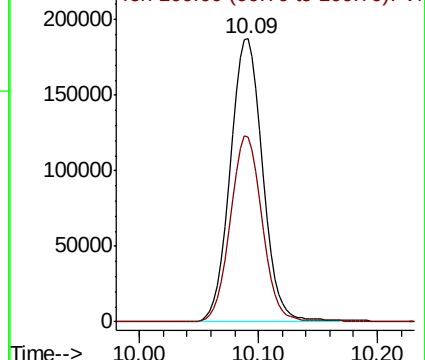
98 100

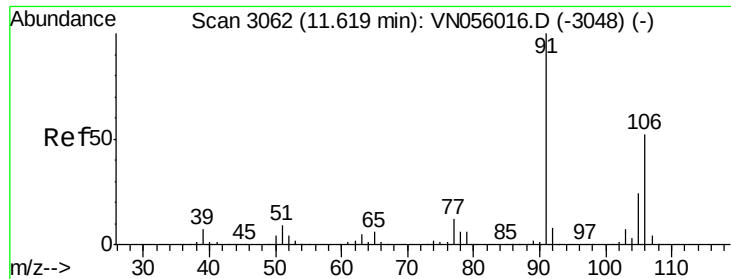
100 64.8 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#67

m/p-Xylenes

Concen: 0.407 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

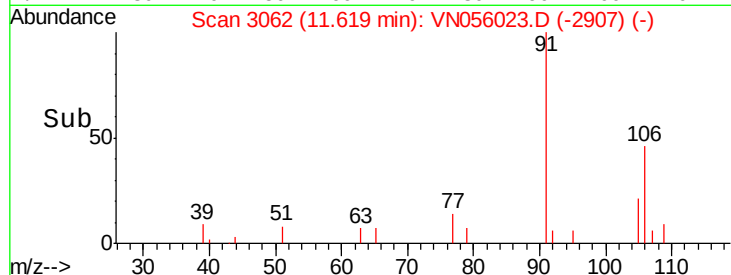
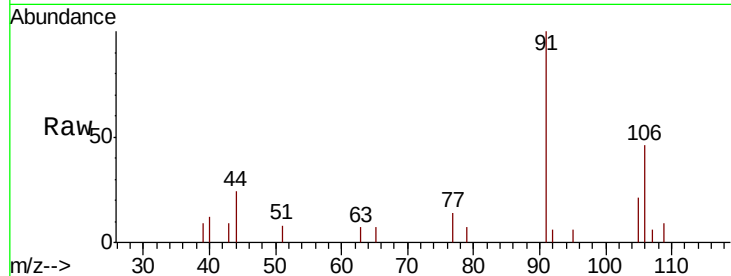
002-35TH-AVE(JUNE)

Tot Ion:106 Resp: 2273

Ion Ratio Lower Upper

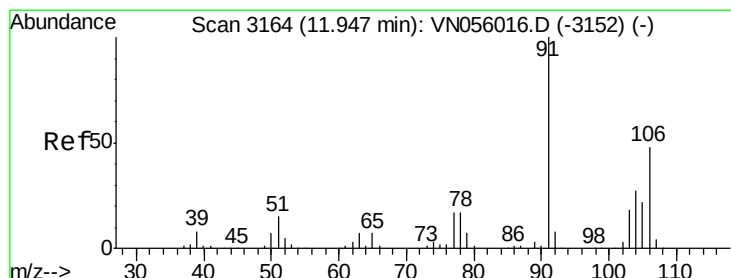
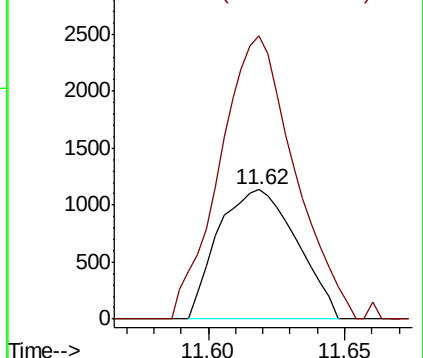
106 100

91 207.6 155.7 233.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 0.224 ug/l

RT: 11.94 min Scan# 3163

Delta R.T. -0.00 min

Lab File: VN056023.D

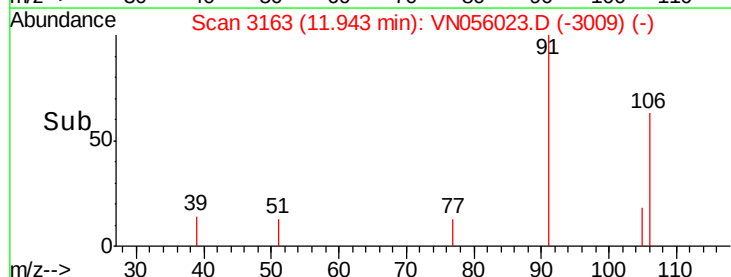
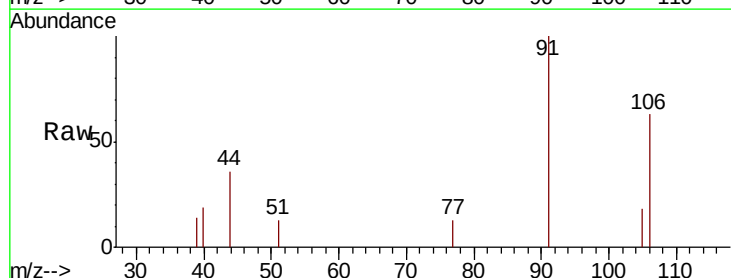
Acq: 5 Jun 2019 23:03

Tgt Ion:106 Resp: 1225

Ion Ratio Lower Upper

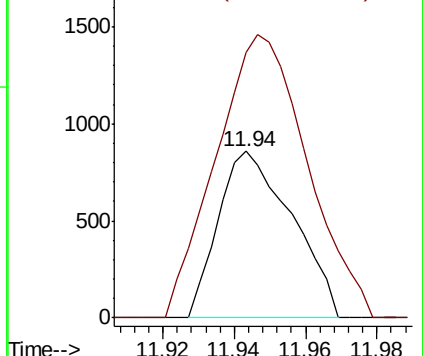
106 100

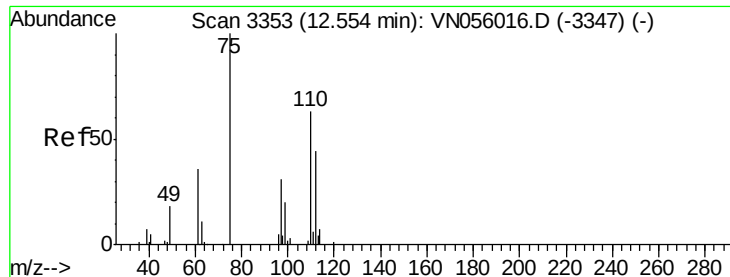
91 210.3 103.9 311.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,2,3-Trichloropropane

Concen: 11.463 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

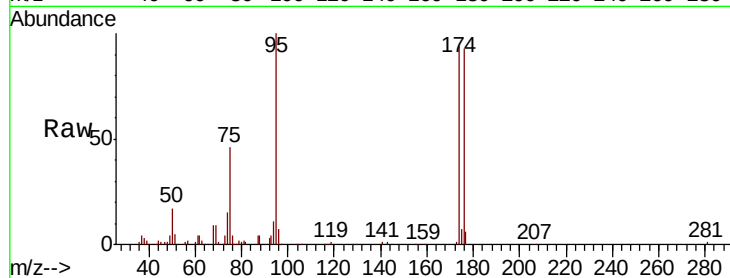
002-35TH-AVE(JUNE)

Tot Ion: 75 Resp: 42761

Ion Ratio Lower Upper

75 100

77 0.6 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

25000

20000

15000

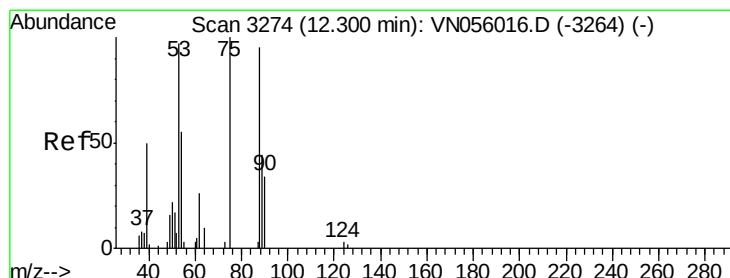
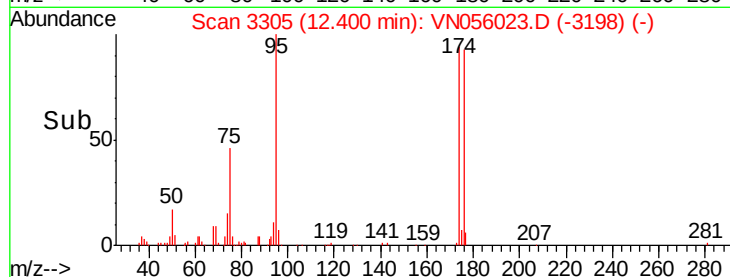
10000

5000

0

12.35 12.40 12.45

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 40.173 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

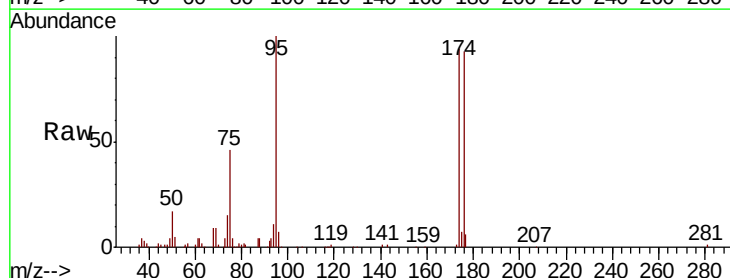
Tgt Ion: 75 Resp: 42761

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#



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

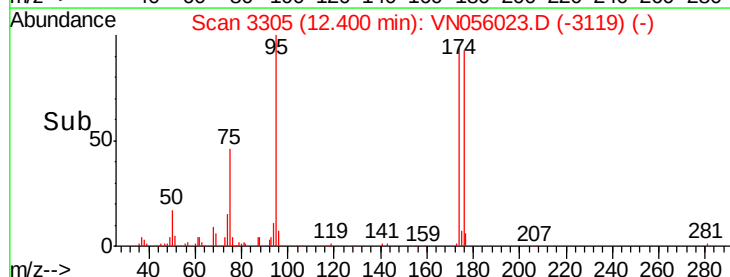
10000

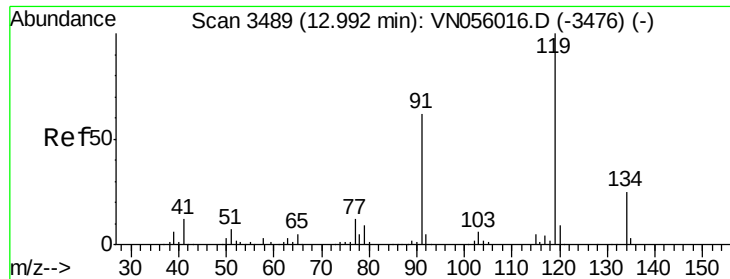
5000

0

12.35 12.40 12.45

Time-->





#79

tert-butylbenzene

Concen: 0.273 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.30 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

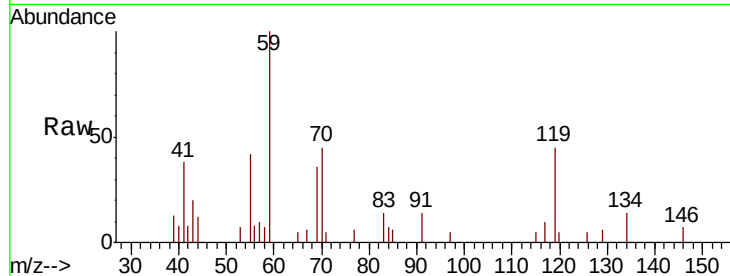
Tot Ion:119 Resp: 2845

Ion Ratio Lower Upper

119 100

91 28.5 0.0 122.8

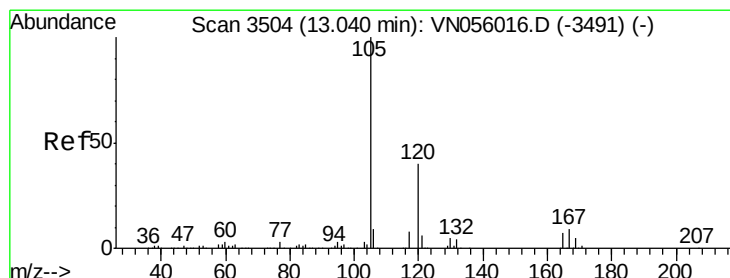
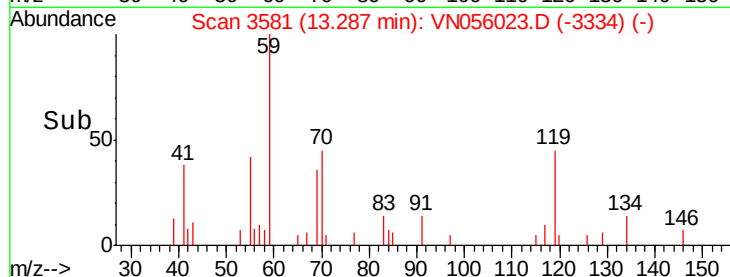
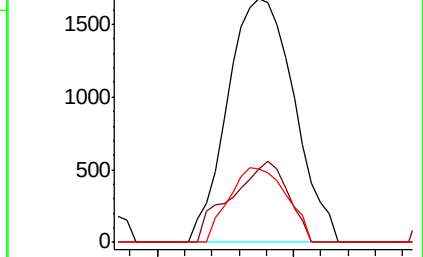
134 26.4 0.0 50.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.353 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN056023.D

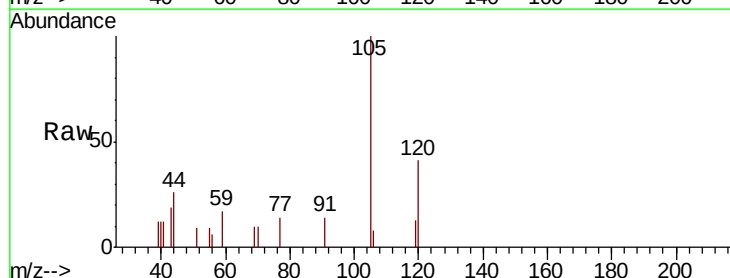
Acq: 5 Jun 2019 23:03

Tgt Ion:105 Resp: 4042

Ion Ratio Lower Upper

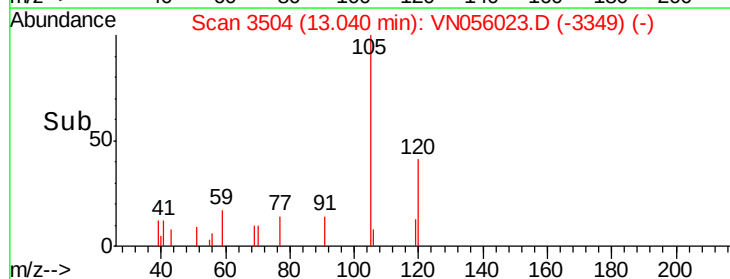
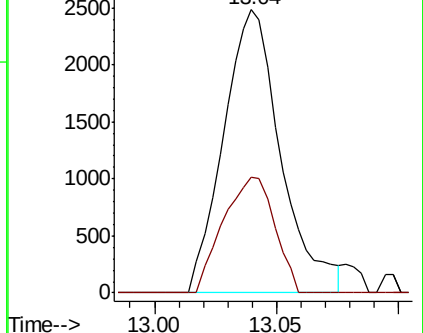
105 100

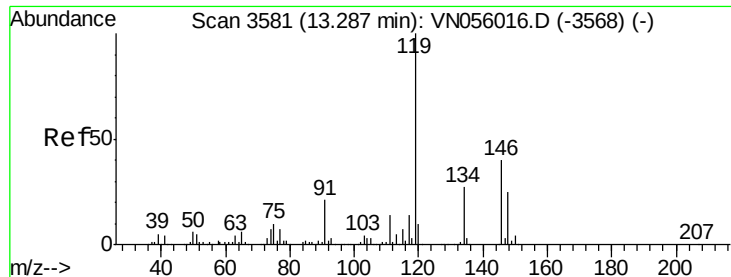
120 36.8 0.0 93.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#82

p-Isopropyltoluene

Concen: 0.239 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

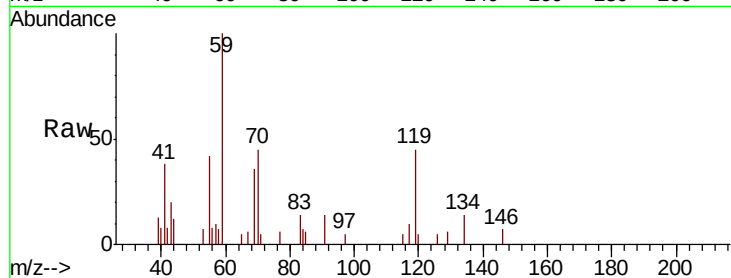
Tot Ion:119 Resp: 2845

Ion Ratio Lower Upper

119 100

134 26.4 0.0 53.4

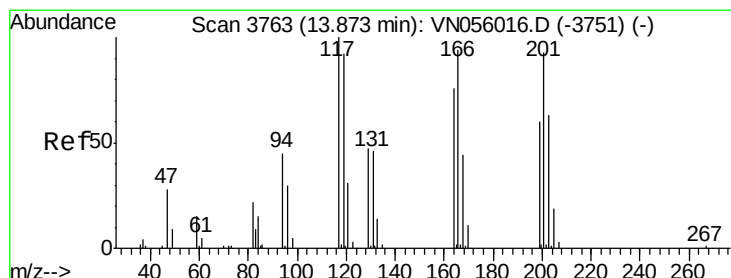
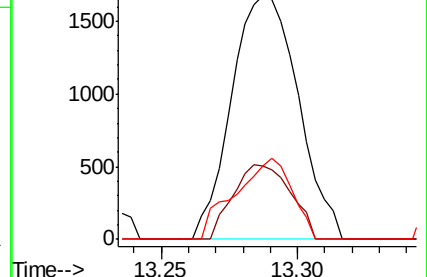
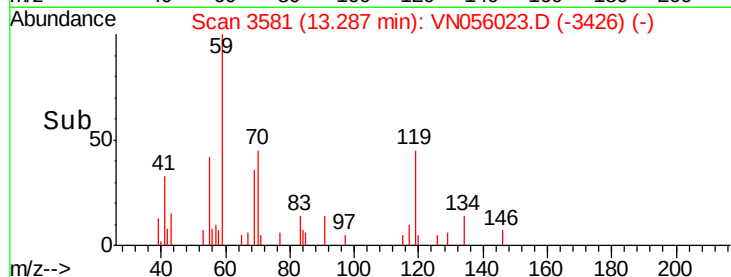
91 28.5 0.0 43.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#86

Hexachloroethane

Concen: 0.435 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN056023.D

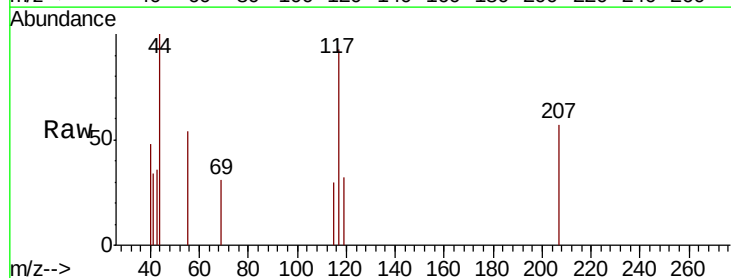
Acq: 5 Jun 2019 23:03

Tgt Ion:117 Resp: 807

Ion Ratio Lower Upper

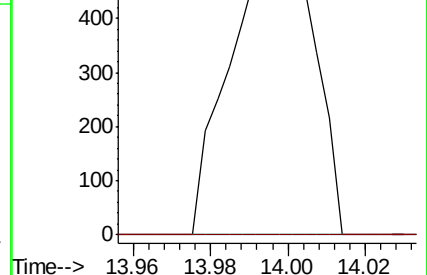
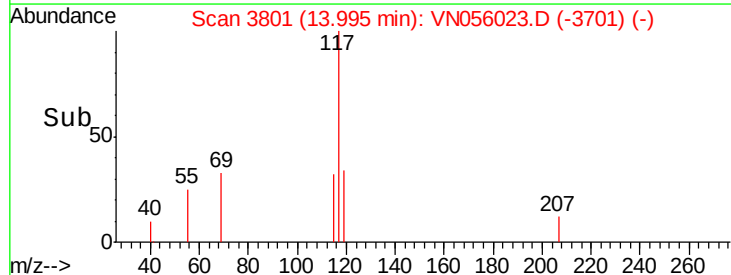
117 100

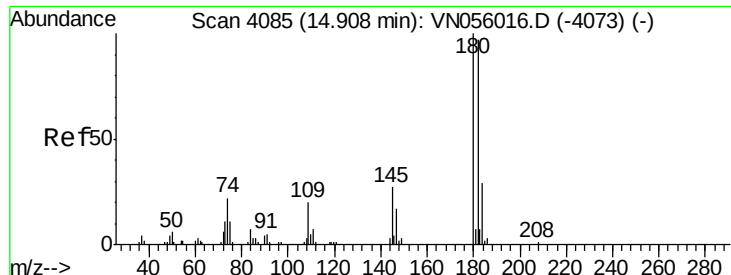
201 0.0 48.1 144.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#89

1,2,4-Trichlorobenzene

Concen: 8.623 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056023.D

Acq: 5 Jun 2019 23:03

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

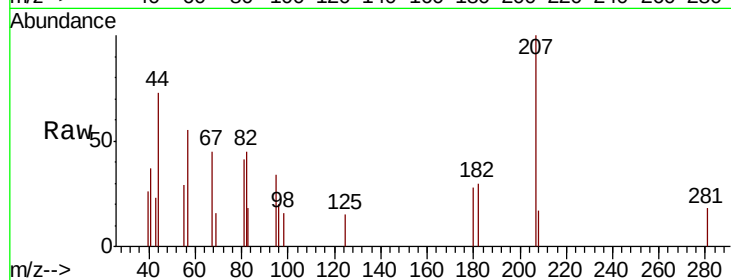
Tot Ion:180 Resp: 307

Ion Ratio Lower Upper

180 100

182 110.7 75.0 112.6

145 19.2 22.1 33.1#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

