

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070819\
 Data File : VN056617.D
 Acq On : 8 Jul 2019 18:14
 Operator : JC/SP
 Sample : K3622-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-070319-B

Quant Time: Jul 09 03:47:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	292548	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	515212	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	543214	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	219109	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	172488	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
35) Dibromofluoromethane	7.59	113	152406	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	10.09	98	649008	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	12.40	95	242770	58.23	ug/l	0.00
Spiked Amount			Recovery	=	116.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	16270	10.016	ug/l	99
18) Methyl Acetate	4.34	43	7076	1.380	ug/l #	89
20) Methylene Chloride	4.55	84	52782	16.642	ug/l	98
29) Tetrahydrofuran	7.23	42	697	0.530	ug/l #	75
31) Cyclohexane	7.66	56	4761	0.951	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18763	4.138	ug/l #	49
38) Carbon Tetrachloride	7.67	117	24944	6.290	ug/l #	14
43) Isopropyl Acetate	8.17	43	19597	2.852	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	1422	0.381	ug/l #	43
48) Methyl methacrylate	9.18	41	9087	2.639	ug/l #	12
51) 4-Methyl-2-Pentanone	9.98	43	3772	0.850	ug/l	91
53) t-1,3-Dichloropropene	10.11	75	30	2.897	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	46317	9.292	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	9573	1.662	ug/l #	42
59) 2-Hexanone	10.76	43	134216	41.173	ug/l #	51
71) Bromoform	12.40	173	1863	3.729	ug/l #	1
73) Isopropylbenzene	12.40	105	31	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	111558	24.555	ug/l #	100
79) 2-Chlorotoluene	12.73	91	307	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	2972	Below Cal		95
81) trans-1,4-Dichloro-2-buten	12.40	75	111558	87.271	ug/l #	8
83) tert-Butylbenzene	13.03	119	66	Below Cal	#	28
95) Naphthalene	15.13	128	8194	5.976	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

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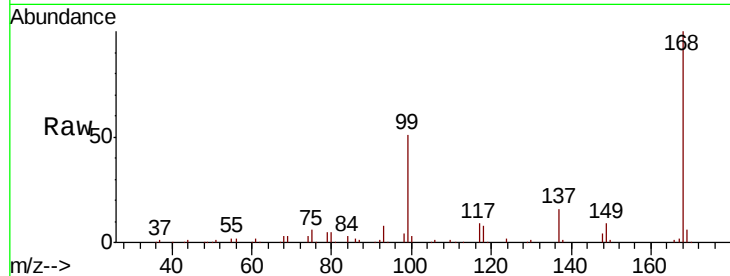
OR-02-070319-B

Tot Ion:168 Resp: 292548

Ion Ratio Lower Upper

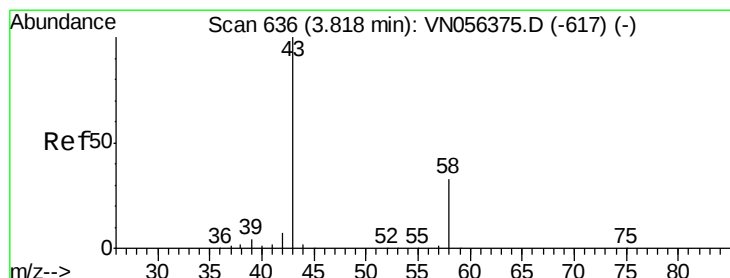
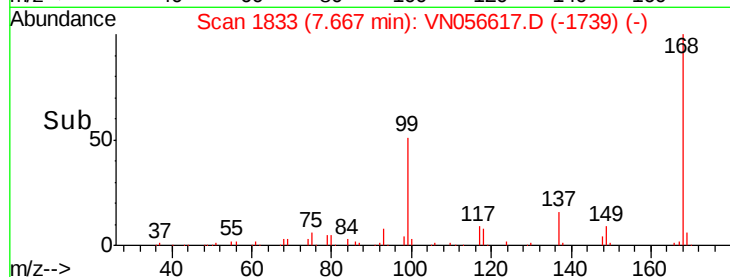
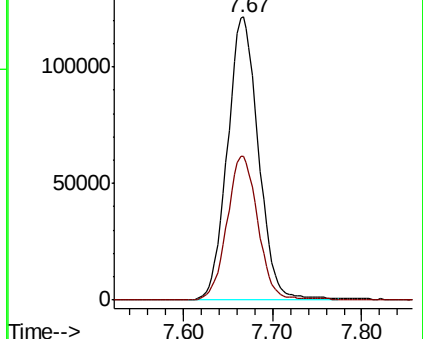
168 100

99 50.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 10.016 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056617.D

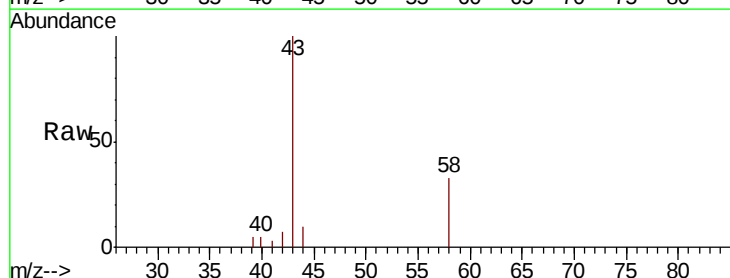
Acq: 8 Jul 2019 18:14

Tgt Ion: 43 Resp: 16270

Ion Ratio Lower Upper

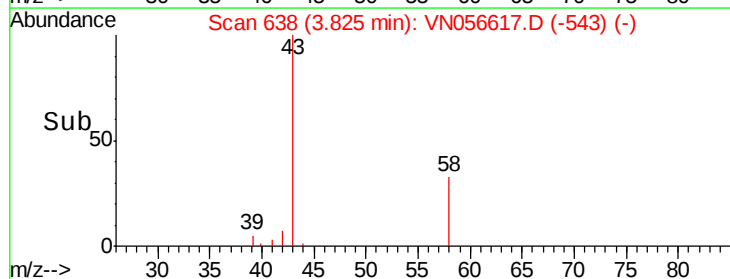
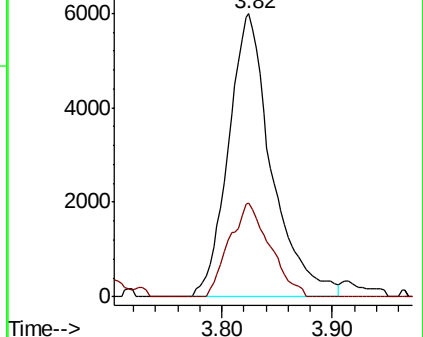
43 100

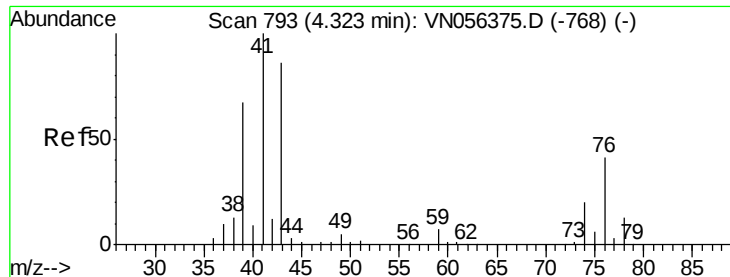
58 33.3 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

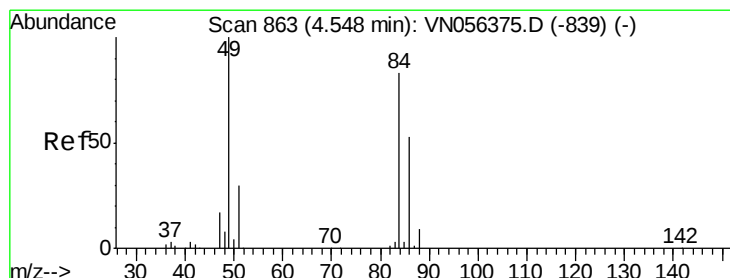
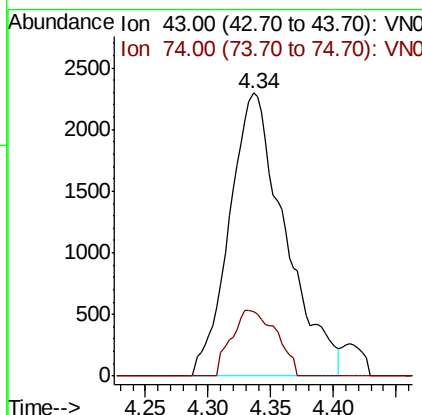
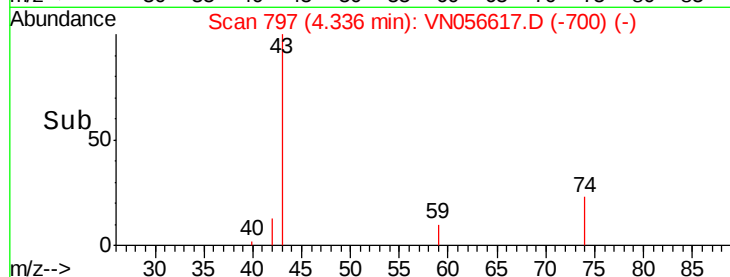
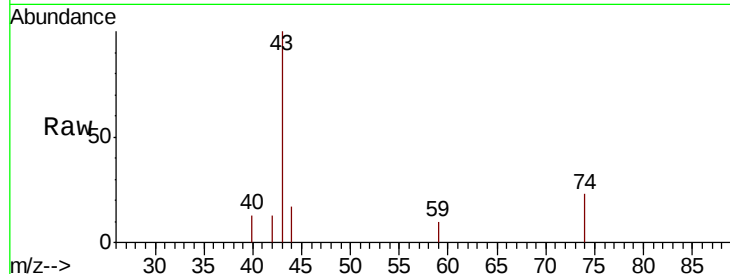




#18
Methyl Acetate
Concen: 1.380 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056617.D
Acq: 8 Jul 2019 18:14

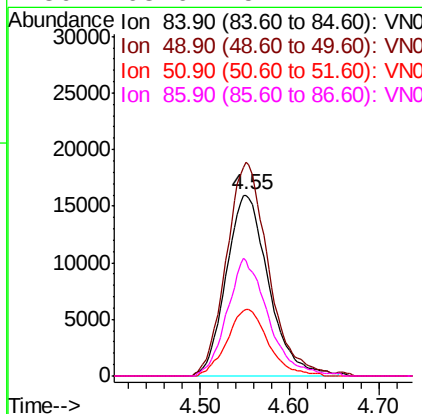
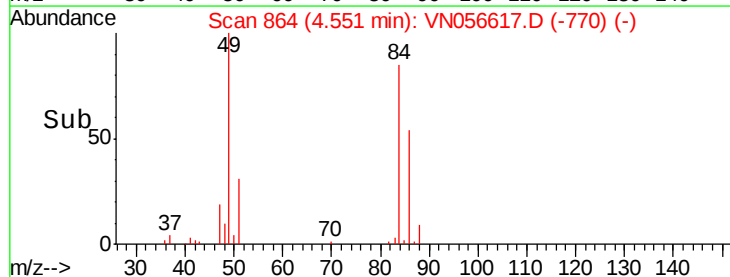
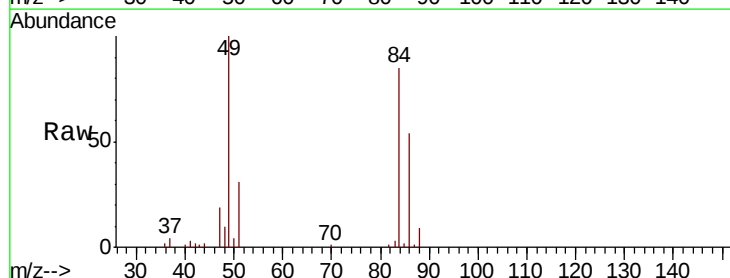
Instrument :
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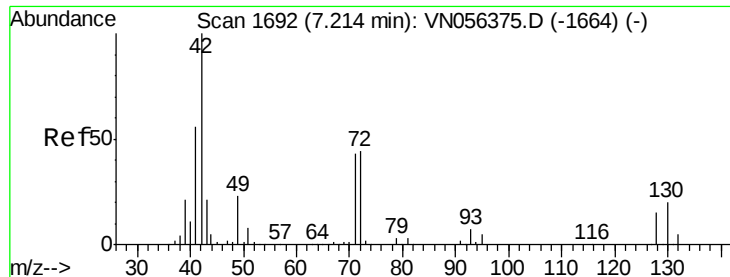
Tot Ion: 43 Resp: 7076
Ion Ratio Lower Upper
43 100
74 18.6 19.2 28.8#



#20
Methylene Chloride
Concen: 16.642 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056617.D
Acq: 8 Jul 2019 18:14

Tgt Ion: 84 Resp: 52782
Ion Ratio Lower Upper
84 100
49 118.3 96.4 144.6
51 37.0 28.6 43.0
86 63.6 51.4 77.2





#29

Tetrahydrofuran

Concen: 0.530 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

OR-02-070319-B

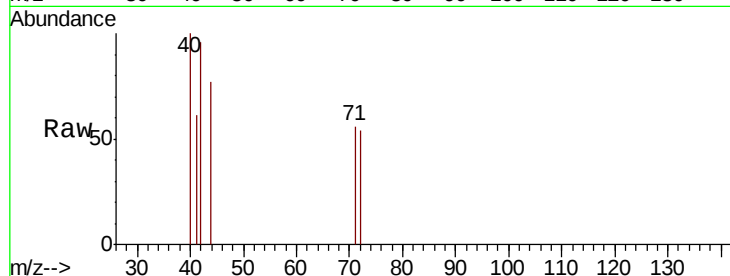
Tot Ion: 42 Resp: 697

Ion Ratio Lower Upper

42 100

72 28.1 34.7 52.1#

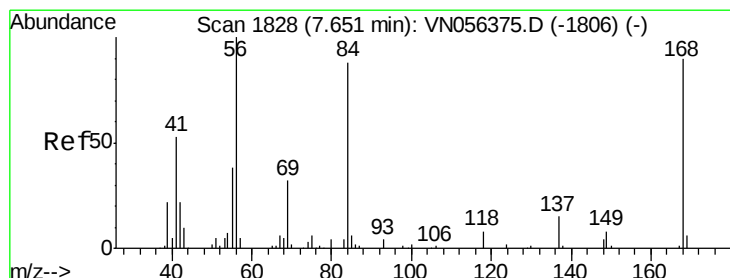
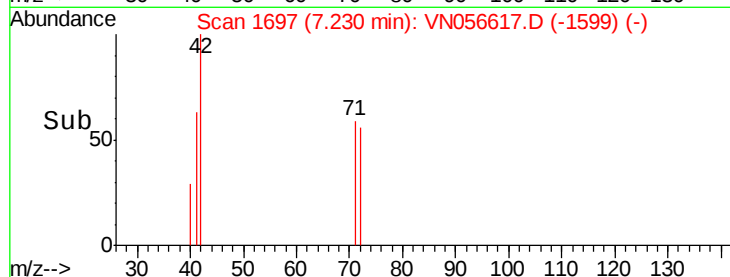
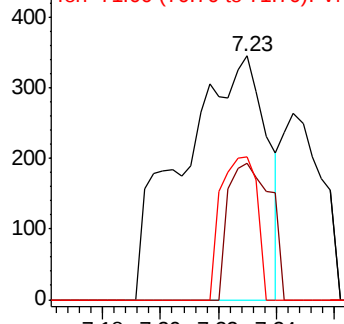
71 25.1 33.0 49.6#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.951 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

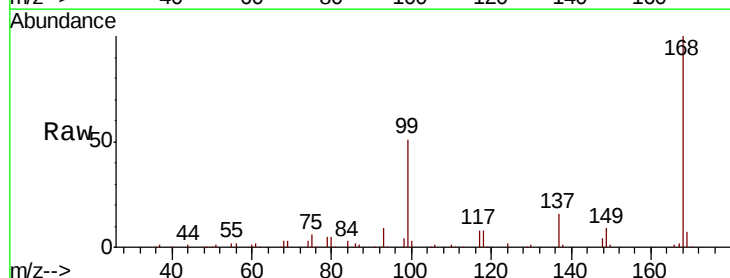
Tgt Ion: 56 Resp: 4761

Ion Ratio Lower Upper

56 100

69 186.7 25.8 38.6#

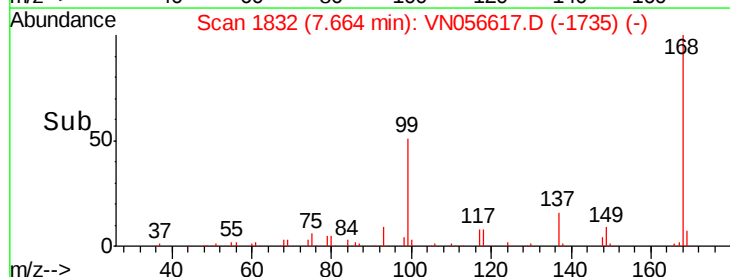
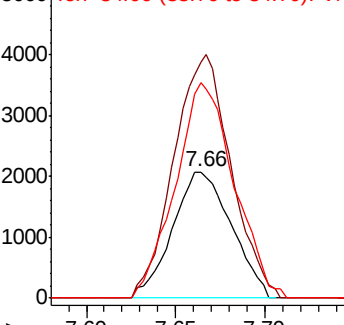
84 170.5 69.4 104.0#

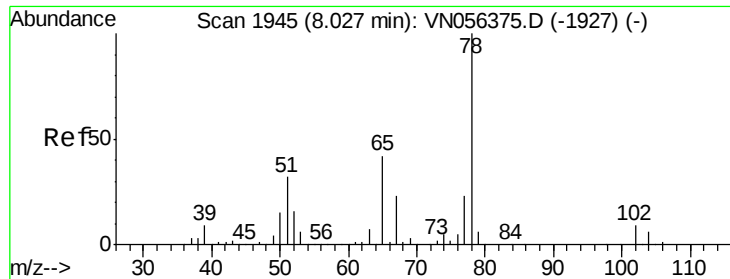


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

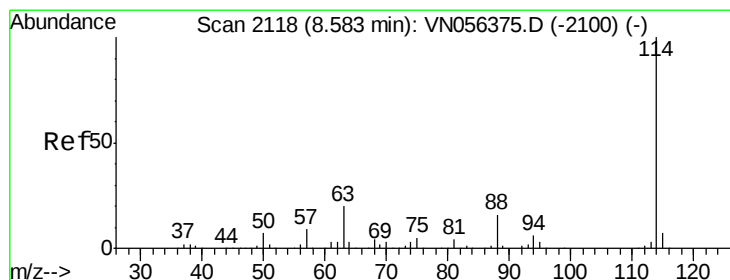
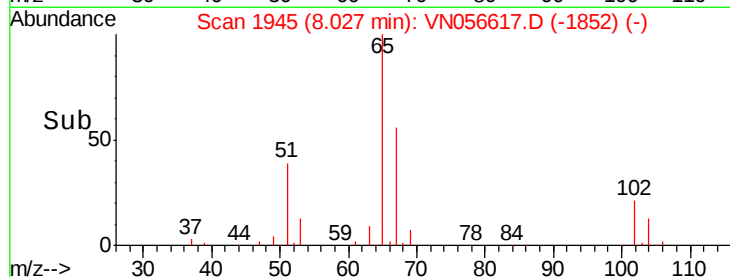
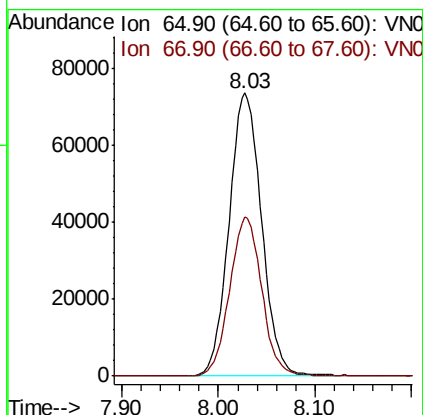
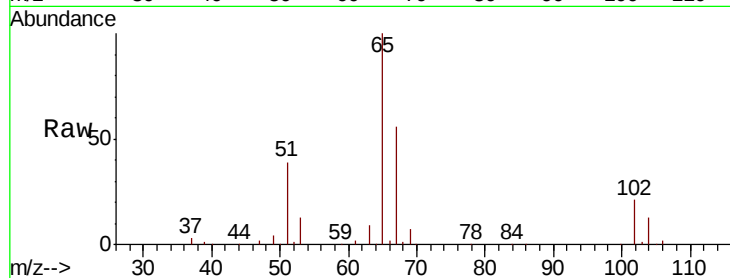




#33
 1,2-Dichloroethane-d4
 Concen: 53.199 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

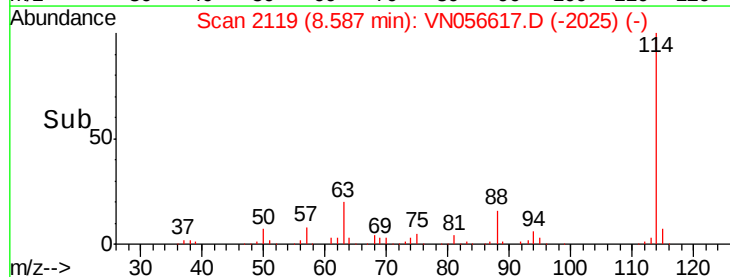
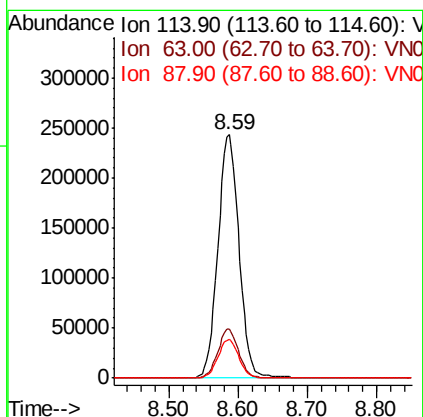
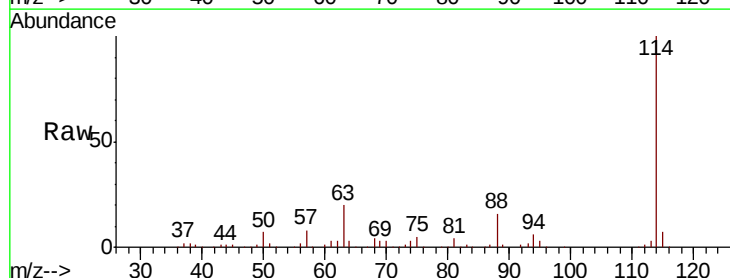
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-070319-B

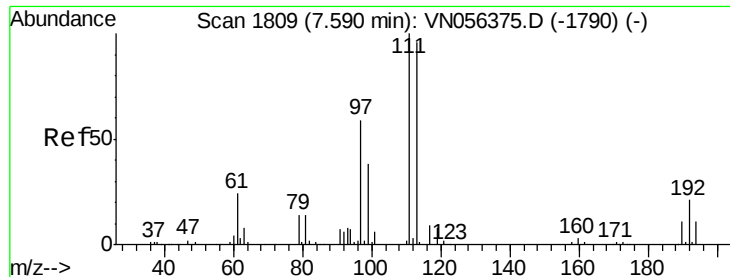
Tot Ion: 65 Resp: 172488
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

Tgt Ion: 114 Resp: 515212
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.2
 88 15.9 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.418 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

OR-02-070319-B

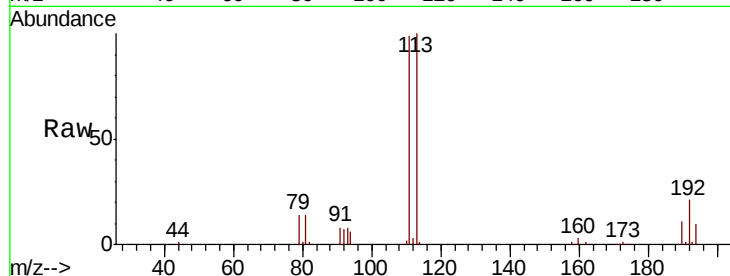
Tot Ion:113 Resp: 152406

Ion Ratio Lower Upper

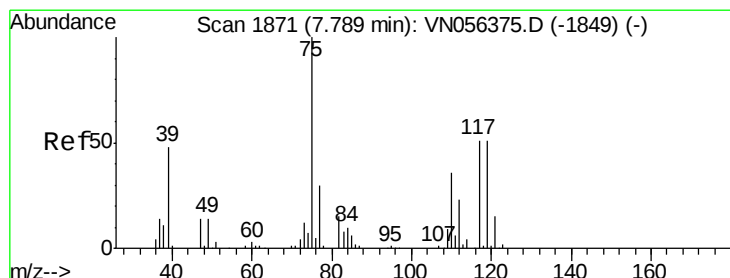
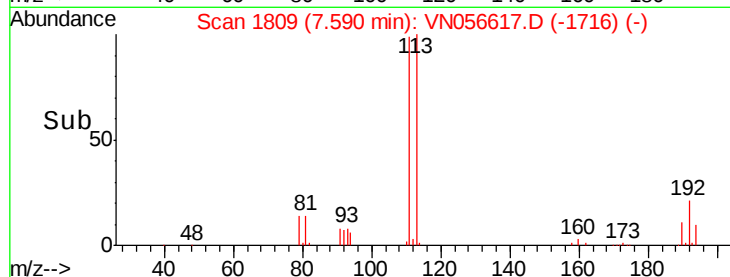
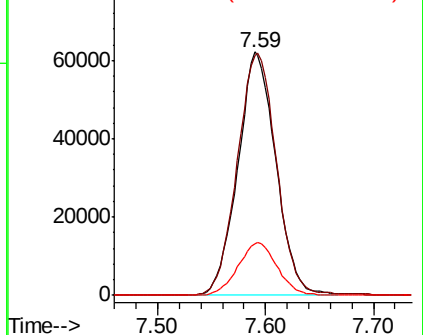
113 100

111 102.2 82.9 124.3

192 22.1 17.7 26.5



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: 4.138 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

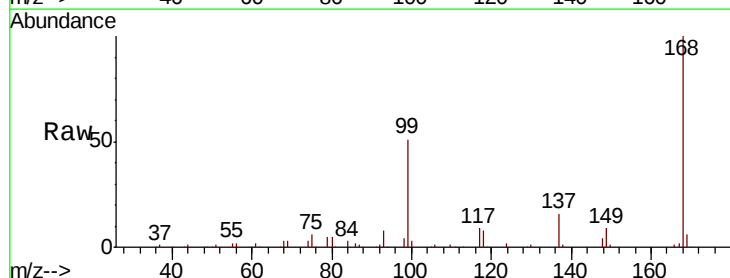
Tgt Ion: 75 Resp: 18763

Ion Ratio Lower Upper

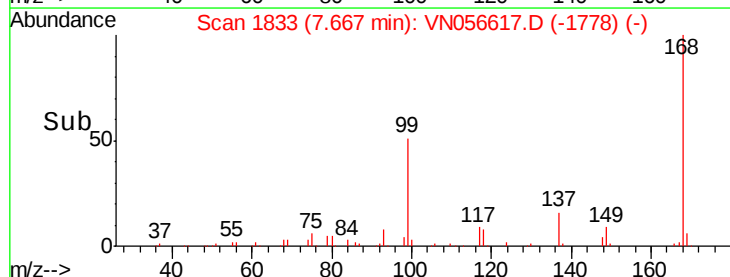
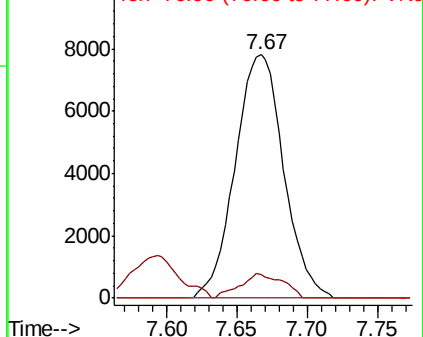
75 100

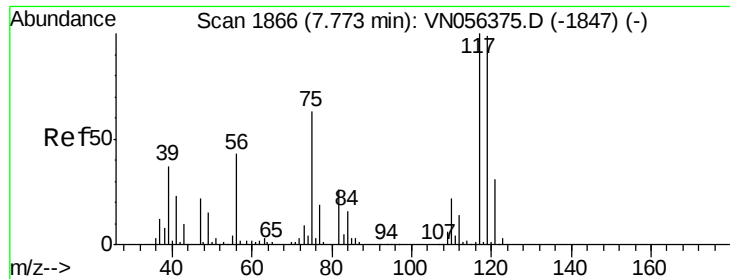
110 8.8 18.1 54.3#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO

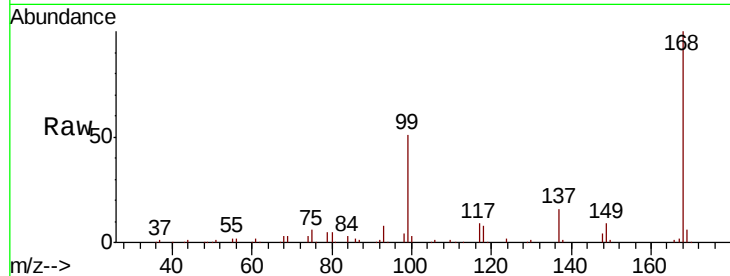




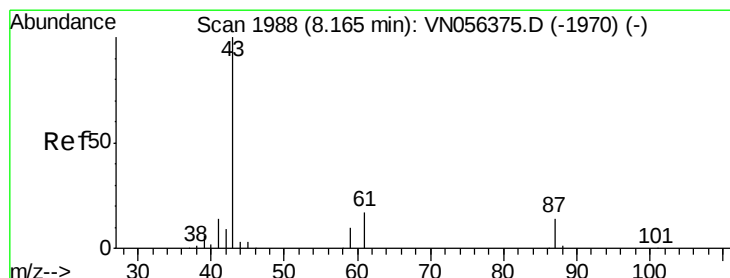
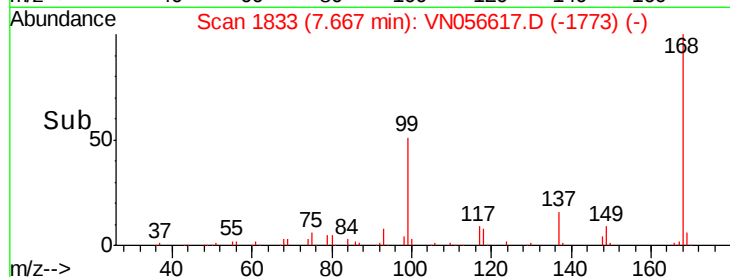
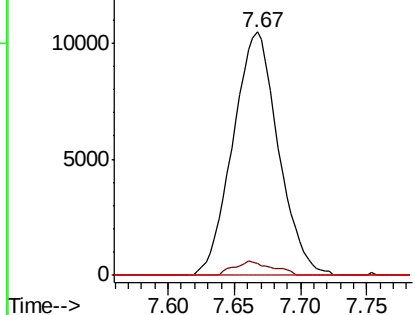
#38
 Carbon Tetrachloride
 Concen: 6.290 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

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Tot Ion:117 Resp: 24944
 Ion Ratio Lower Upper
 117 100
 119 4.7 79.1 118.7#
 121 0.0 24.8 37.2#

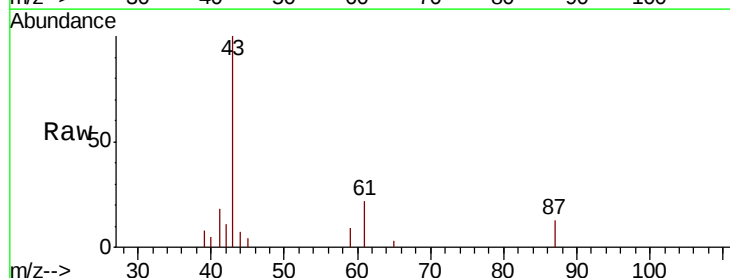


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

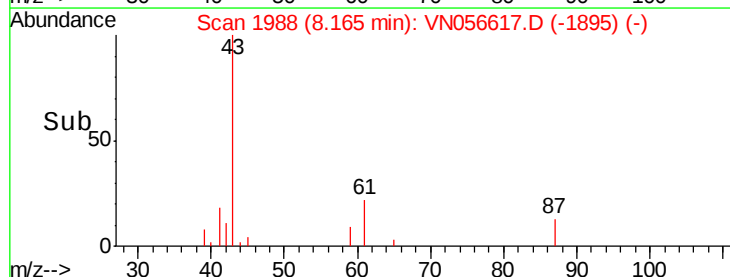
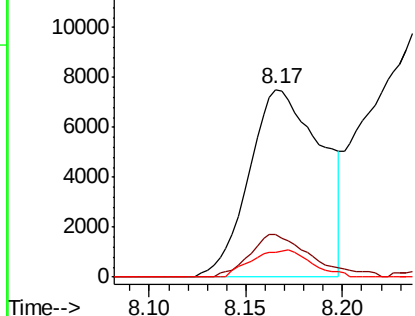


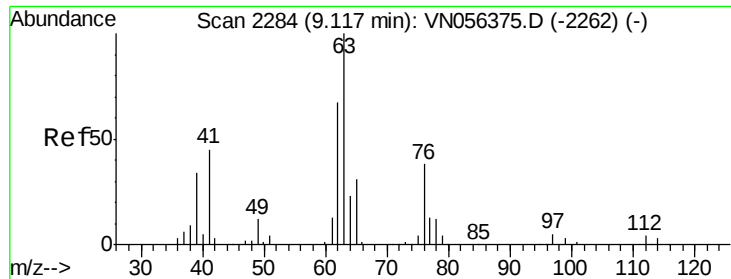
#43
 Isopropyl Acetate
 Concen: 2.852 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

Tgt Ion: 43 Resp: 19597
 Ion Ratio Lower Upper
 43 100
 61 19.5 22.0 33.0#
 87 11.8 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 61.00 (60.70 to 61.70): V
 Ion 87.00 (86.70 to 87.70): V

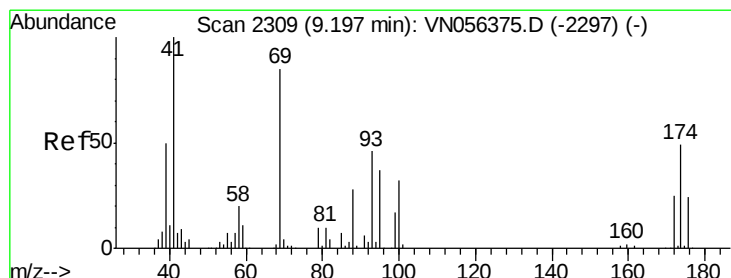
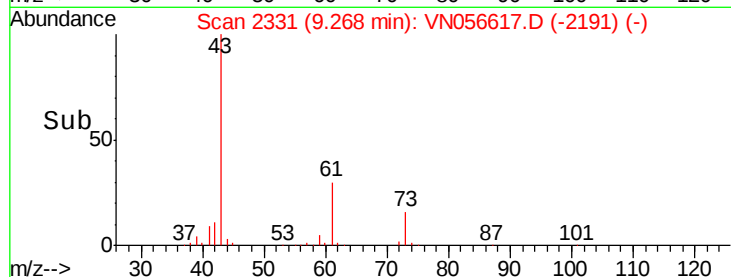
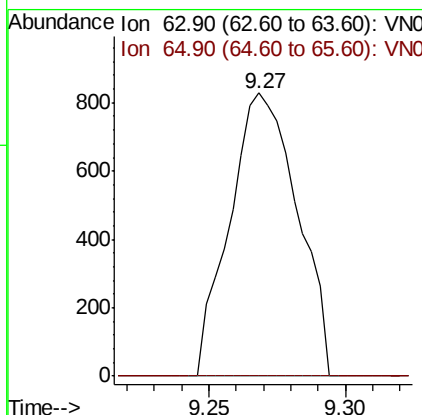
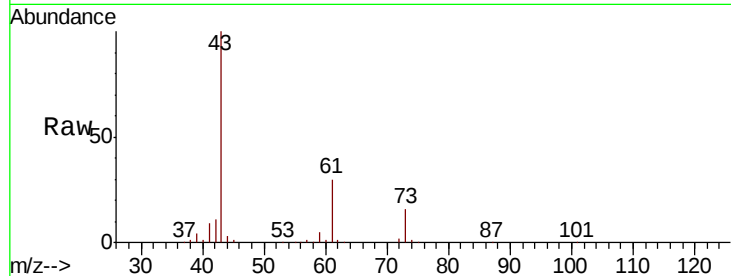




#45
 1,2-Dichloropropane
 Concen: 0.381 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

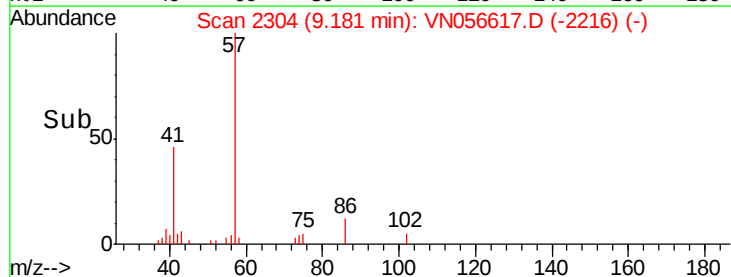
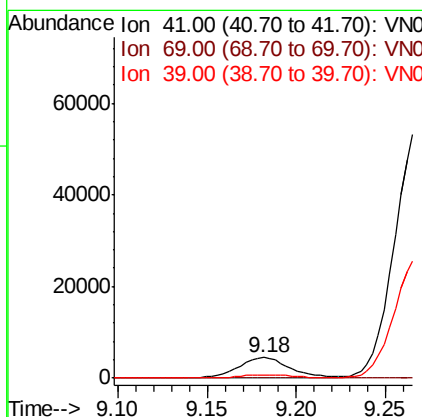
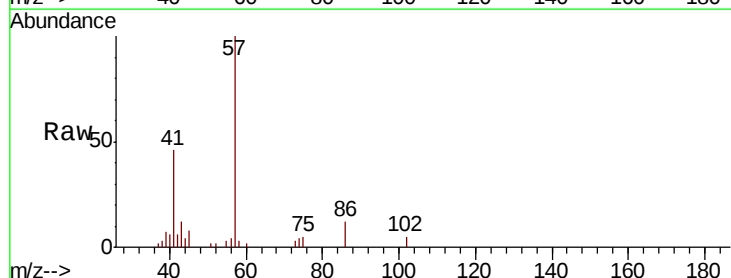
Instrument :
 MSVOA_N
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 OR-02-070319-B

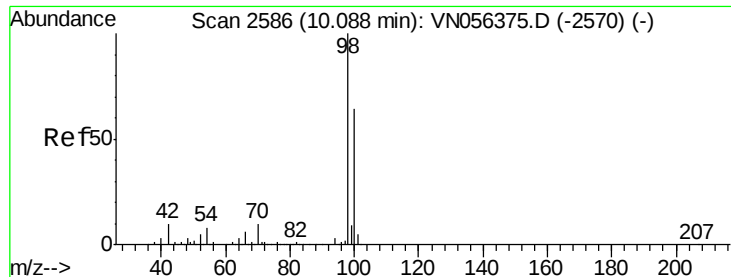
Tot Ion: 63 Resp: 1422
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 2.639 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

Tgt Ion: 41 Resp: 9087
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 109.0#
 39 0.0 42.6 63.8#





#50

Toluene-d8

Concen: 51.895 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

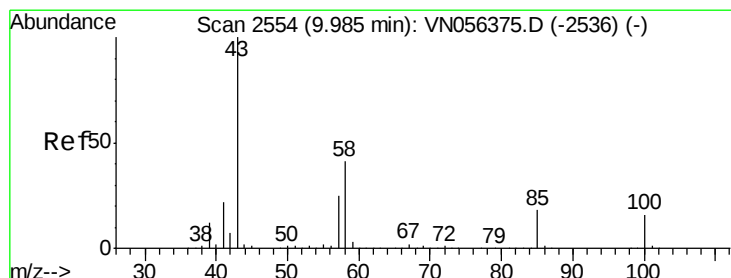
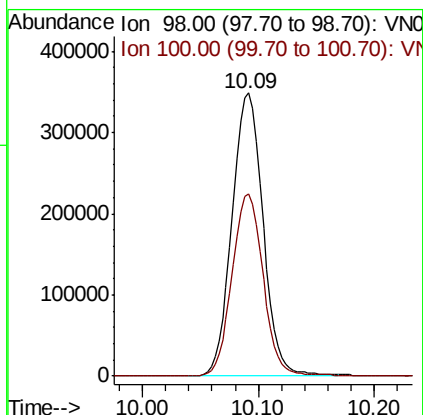
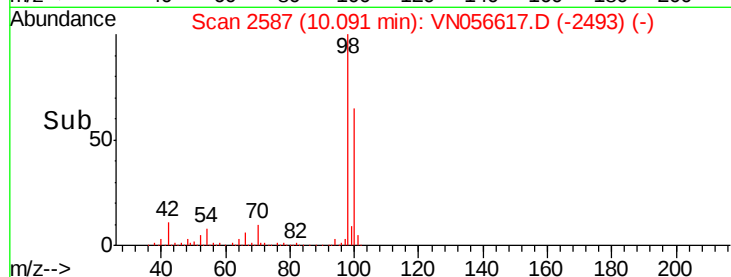
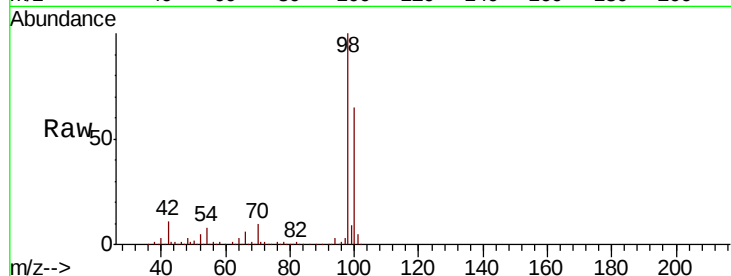
OR-02-070319-B

Tot Ion: 98 Resp: 649008

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.850 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056617.D

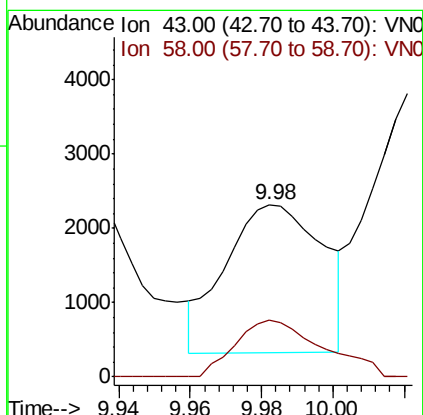
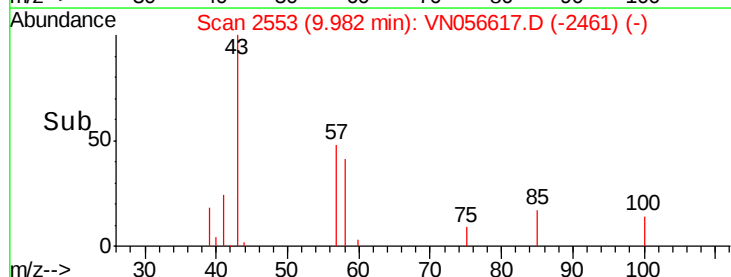
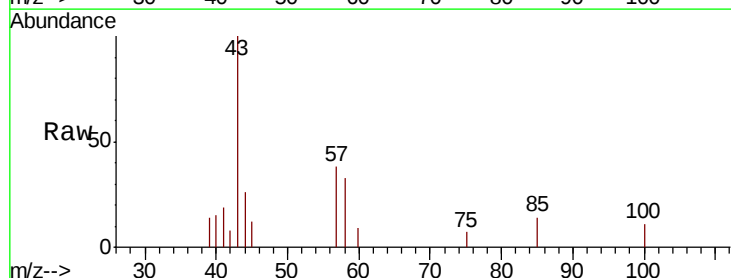
Acq: 8 Jul 2019 18:14

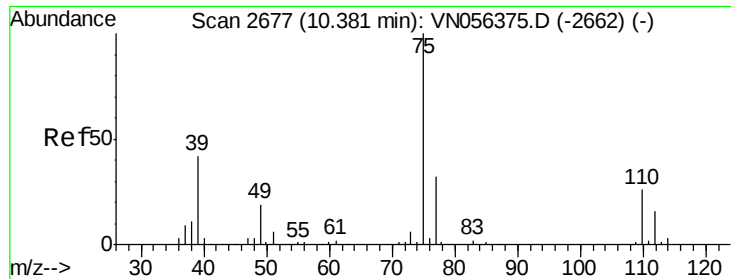
Tgt Ion: 43 Resp: 3772

Ion Ratio Lower Upper

43 100

58 34.3 31.8 47.8

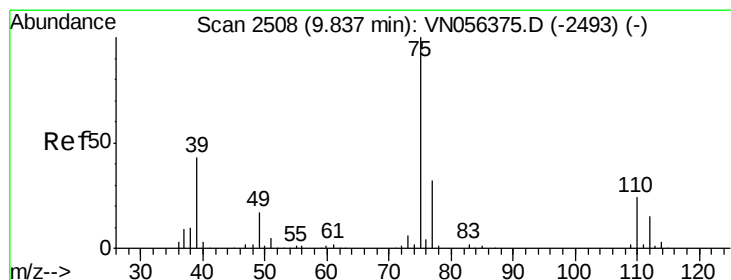
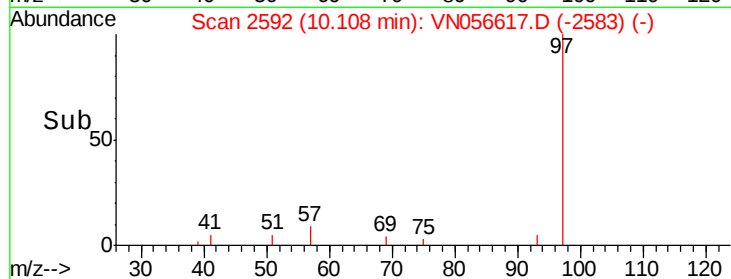
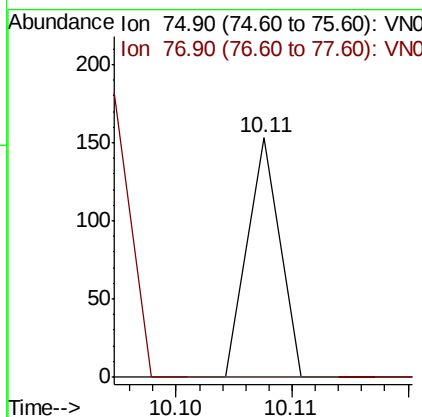
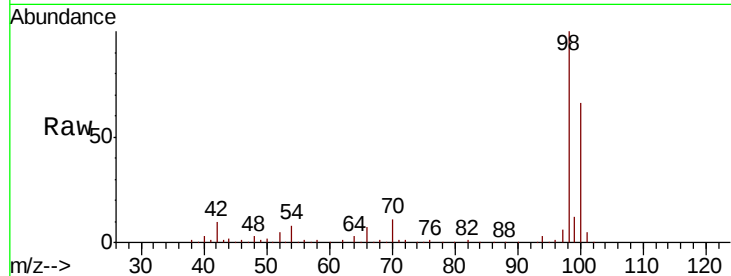




#53
 t-1,3-Dichloropropene
 Concen: 2.897 ug/l
 RT: 10.11 min Scan# 2592
 Delta R.T. -0.27 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

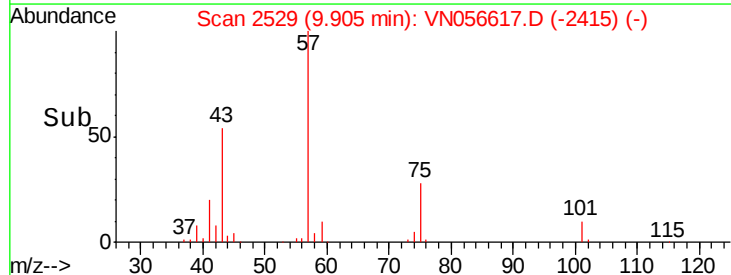
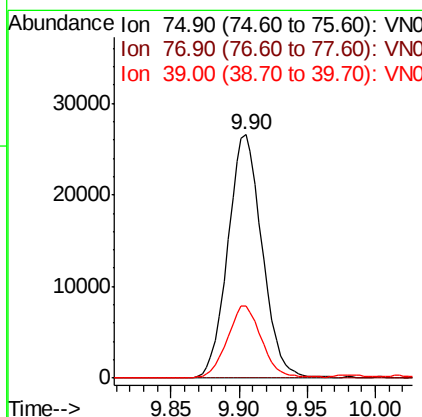
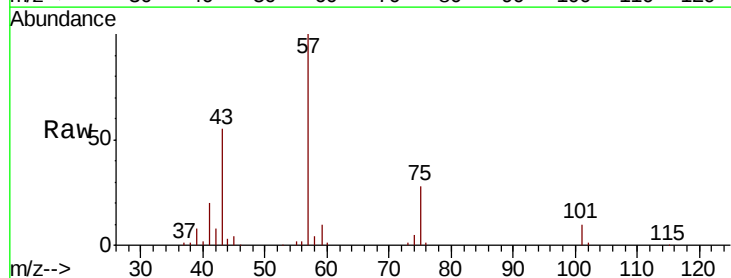
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-070319-B

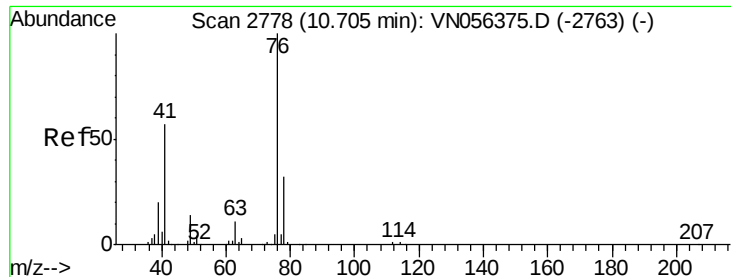
Tot Ion: 75 Resp: 30
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 9.292 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

Tgt Ion: 75 Resp: 46317
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.5 34.2 51.4#

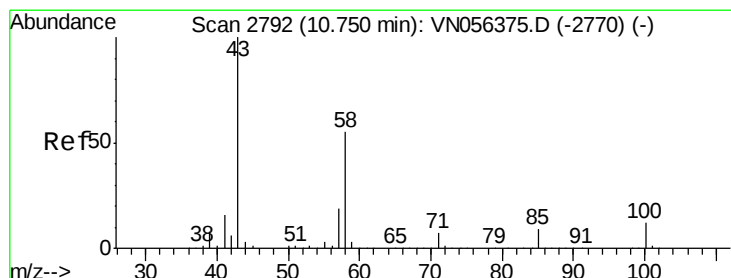
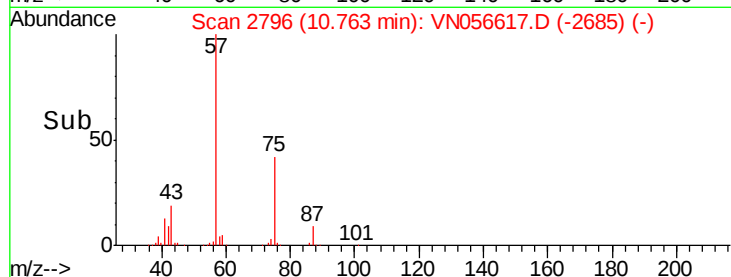
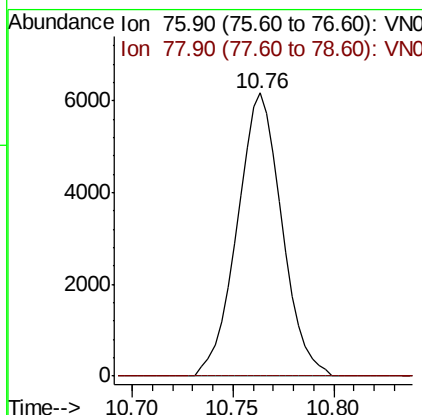
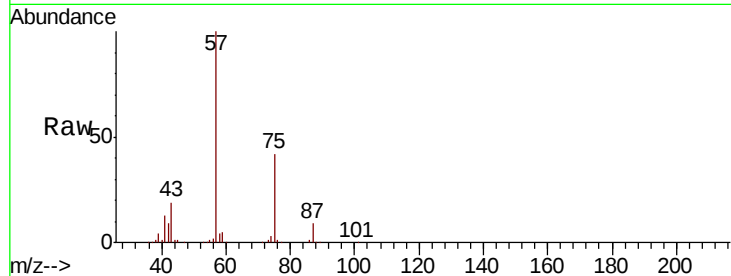




#57
 1,3-Dichloropropane
 Concen: 1.662 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

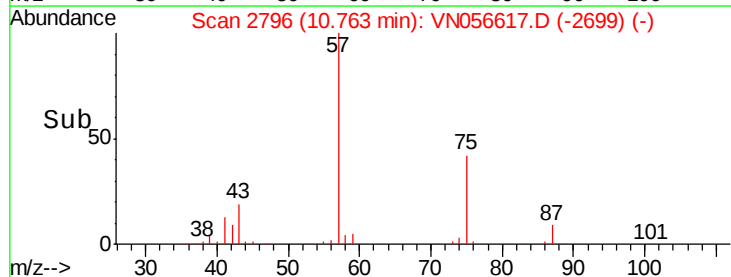
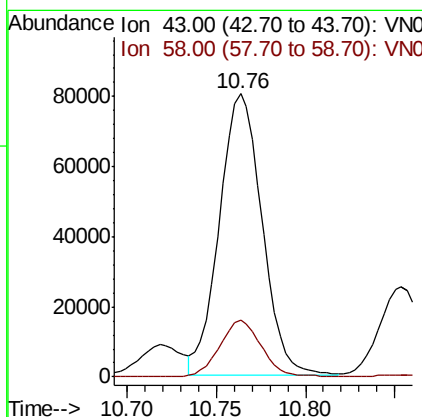
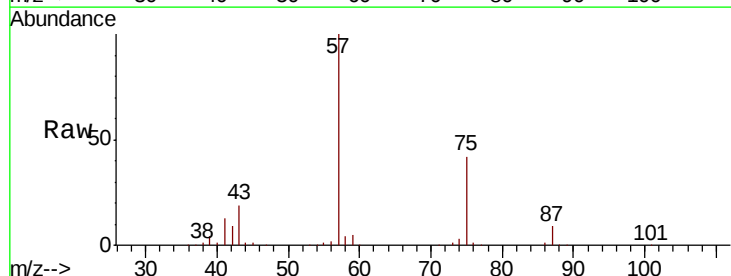
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-02-070319-B

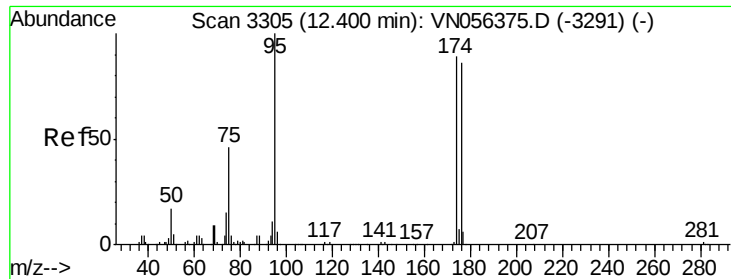
Tot Ion: 76 Resp: 9573
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 41.173 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056617.D
 Acq: 8 Jul 2019 18:14

Tgt Ion: 43 Resp: 134216
 Ion Ratio Lower Upper
 43 100
 58 19.7 27.8 83.4#

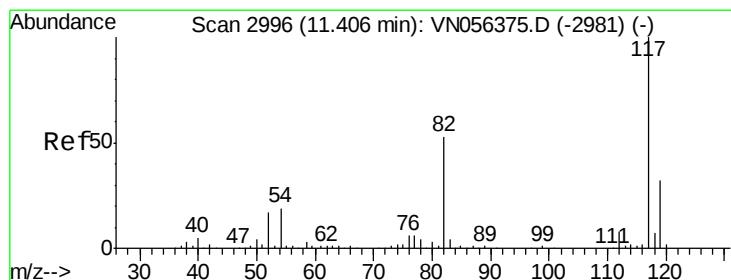
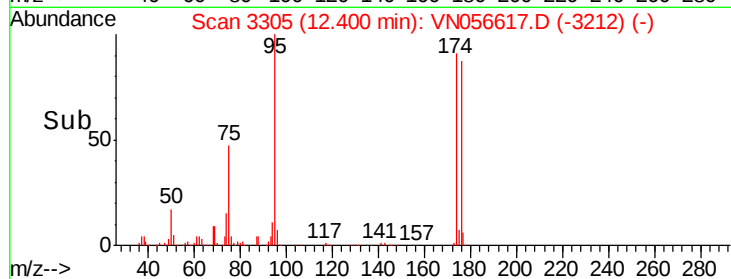
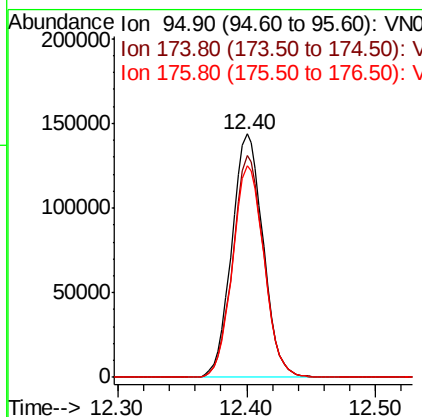
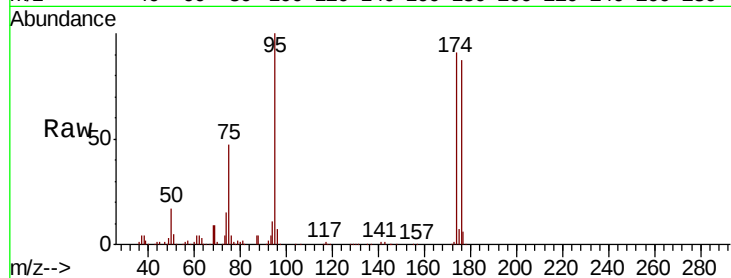




#62
4-Bromofluorobenzene
Concen: 58.232 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056617.D
Acq: 8 Jul 2019 18:14

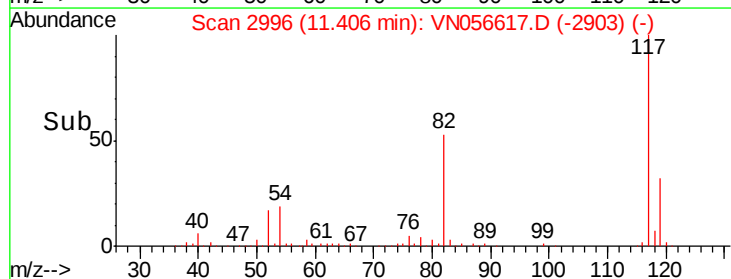
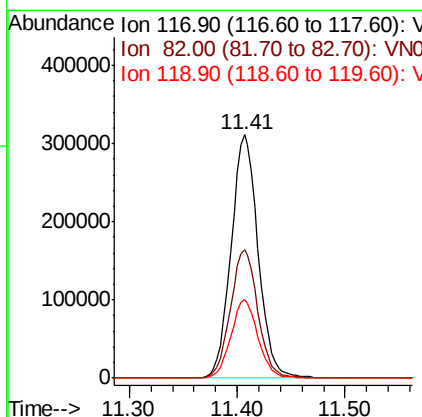
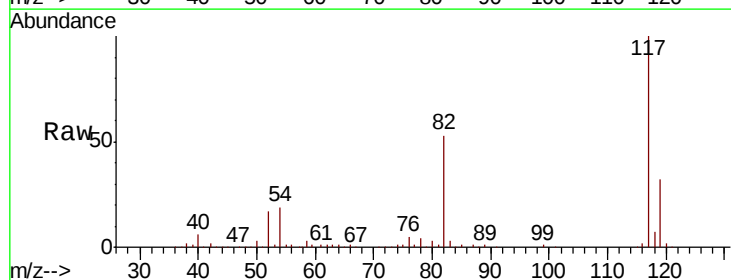
Instrument :
MSVOA_N
ClientSampleId :
OR-02-070319-B

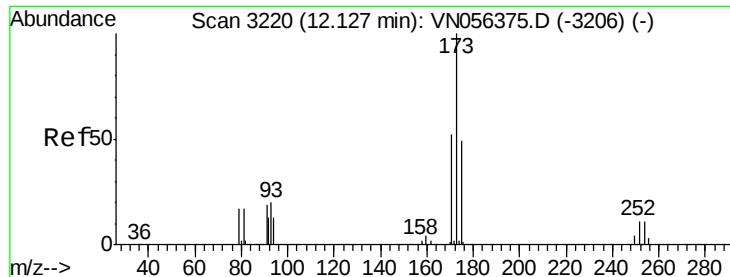
Tot Ion: 95 Resp: 242770
Ion Ratio Lower Upper
95 100
174 89.9 0.0 179.4
176 87.4 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056617.D
Acq: 8 Jul 2019 18:14

Tgt Ion: 117 Resp: 543214
Ion Ratio Lower Upper
117 100
82 53.0 42.0 63.0
119 32.2 25.3 37.9





#71

Bromoform

Concen: 3.729 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

OR-02-070319-B

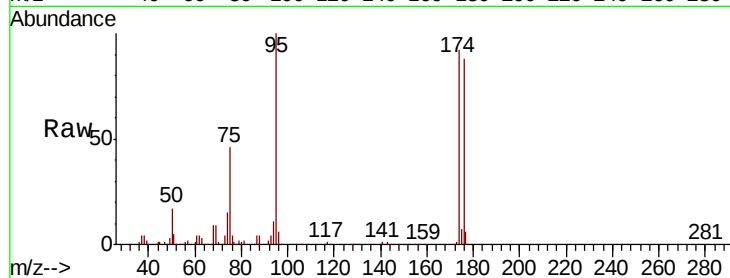
Tot Ion:173 Resp: 1863

Ion Ratio Lower Upper

173 100

175 764.4 24.4 73.4#

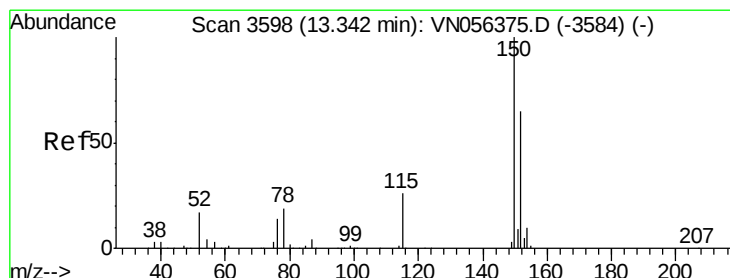
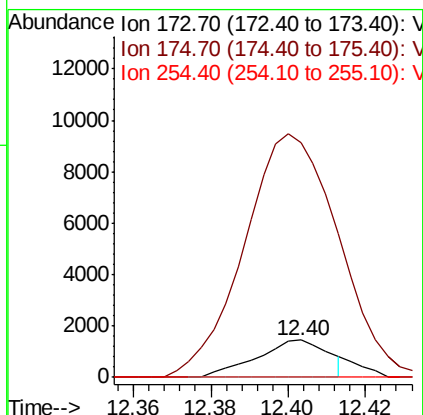
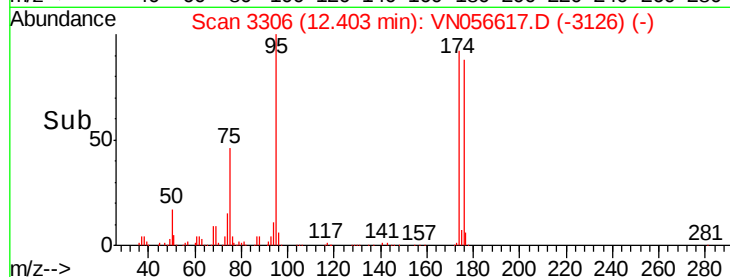
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

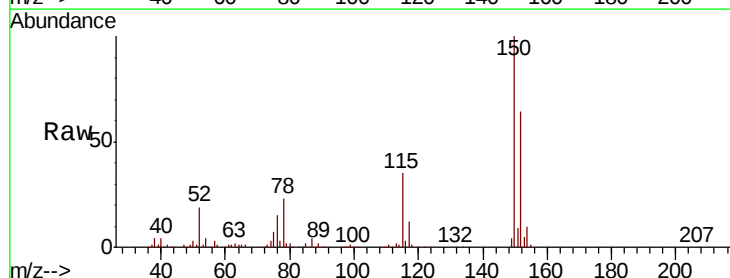
Tgt Ion:152 Resp: 219109

Ion Ratio Lower Upper

152 100

115 56.2 28.1 84.4

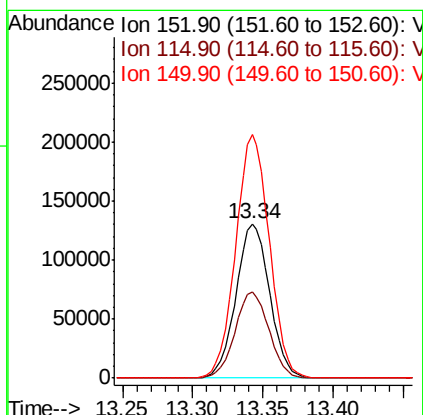
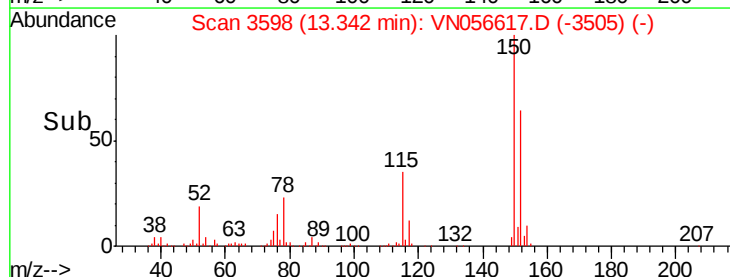
150 157.2 0.0 348.4

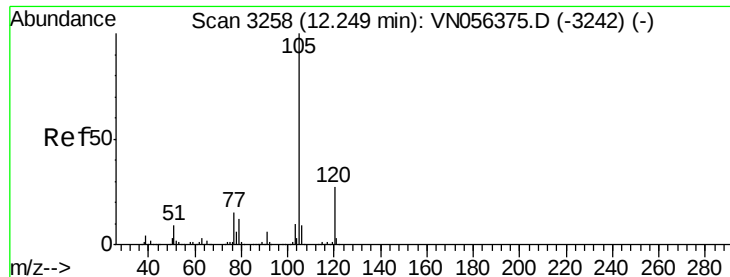


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

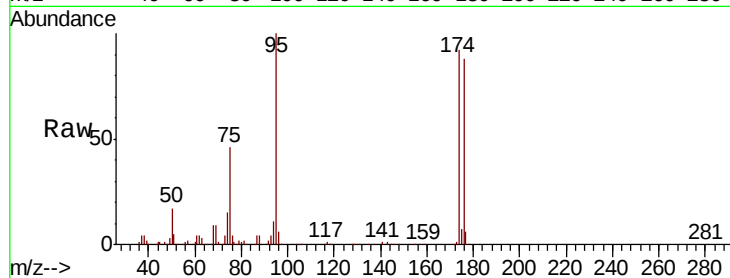
OR-02-070319-B

Tot Ion:105 Resp: 31

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

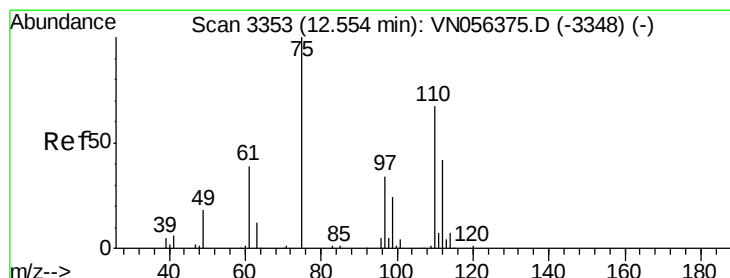
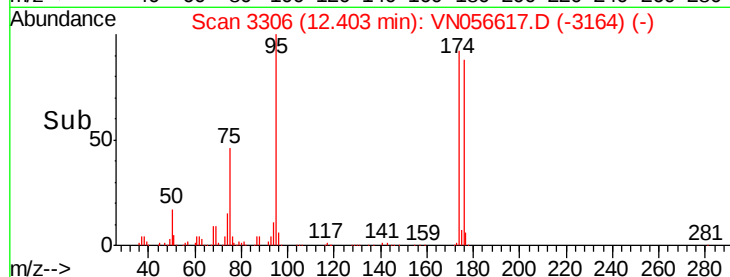
150

100

50

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 24.555 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056617.D

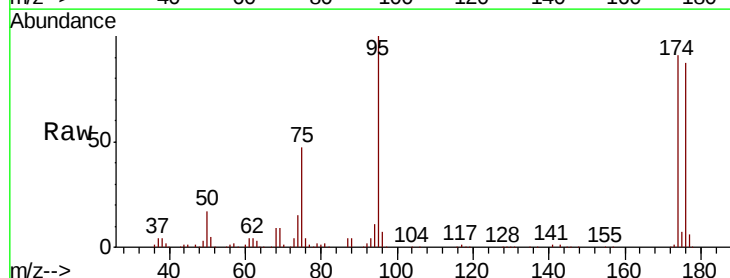
Acq: 8 Jul 2019 18:14

Tgt Ion: 75 Resp: 111558

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

80000

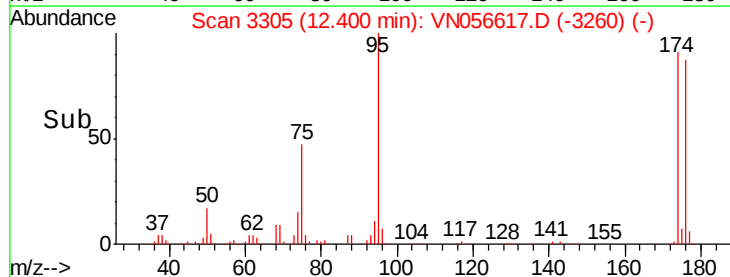
60000

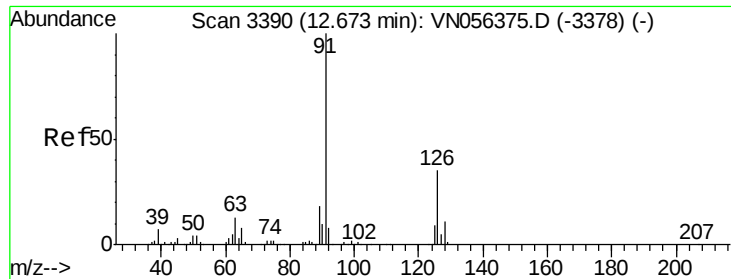
40000

20000

0

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.06 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampled :

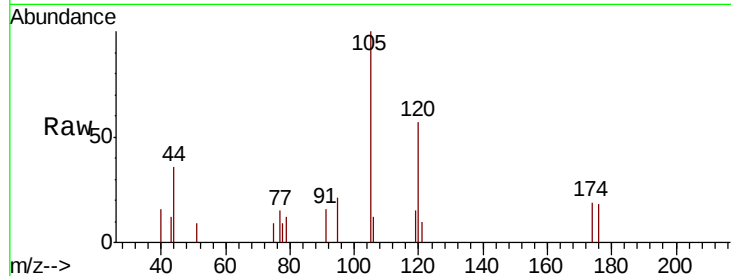
OR-02-070319-B

Tot Ion: 91 Resp: 307

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN056375.D (-3378) (-)

12.73

300

250

200

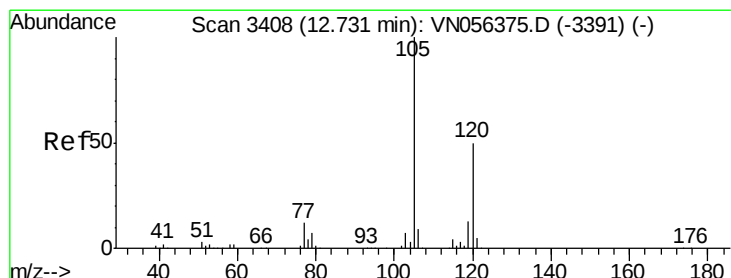
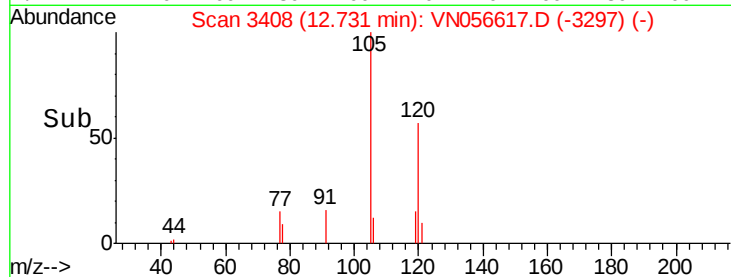
150

100

50

0

Time--> 12.70 12.72 12.74



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056617.D

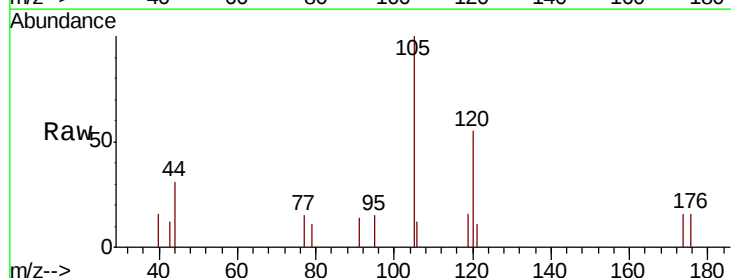
Acq: 8 Jul 2019 18:14

Tgt Ion: 105 Resp: 2972

Ion Ratio Lower Upper

105 100

120 53.4 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN056375.D (-3391) (-)

12.73

2000

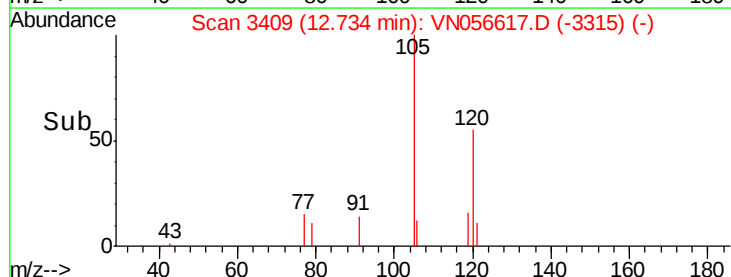
1500

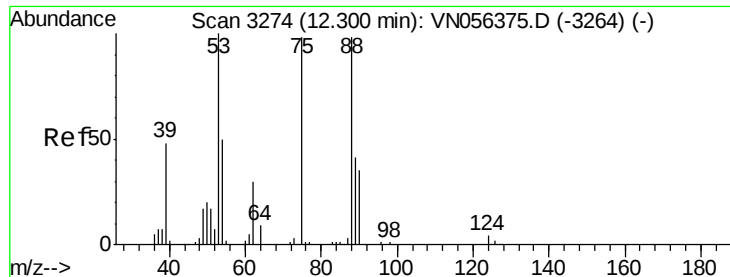
1000

500

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 87.271 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

OR-02-070319-B

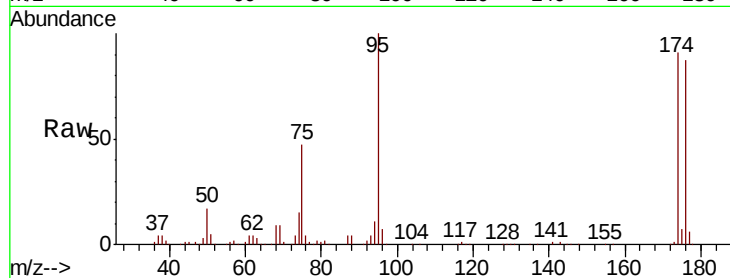
Tot Ion: 75 Resp: 111558

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

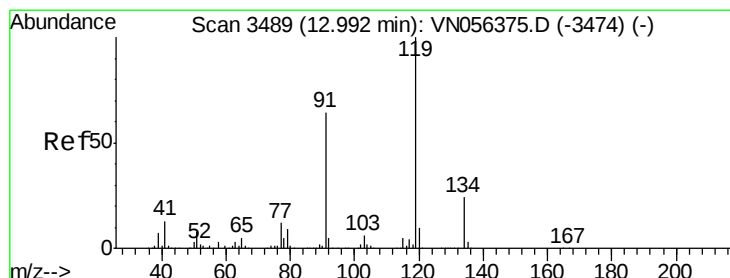
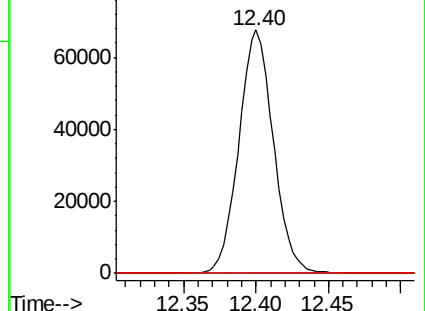
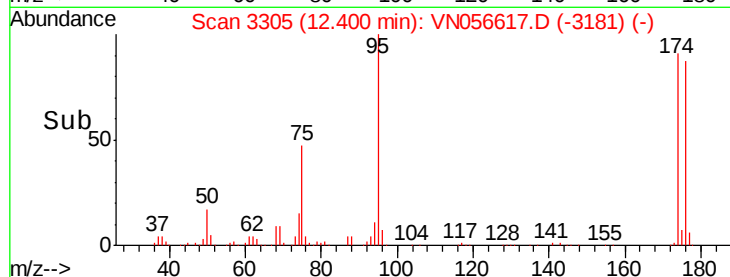
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056617.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN056617.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN056617.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.03 min Scan# 3502

Delta R.T. 0.04 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

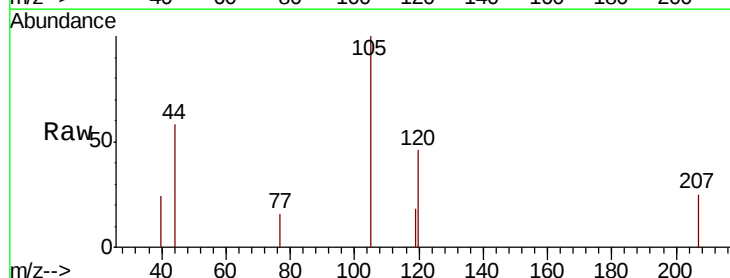
Tgt Ion: 119 Resp: 66

Ion Ratio Lower Upper

119 100

91 0.0 31.6 94.7#

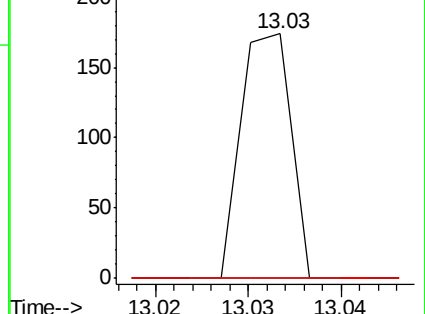
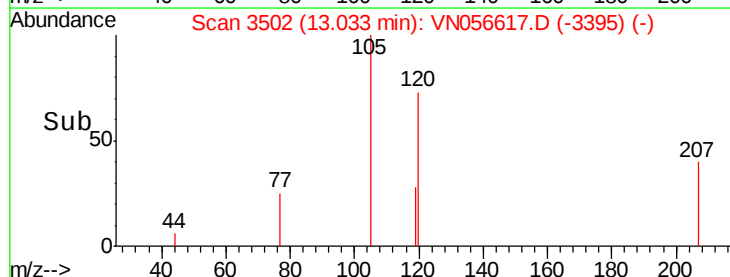
134 0.0 13.2 39.5#

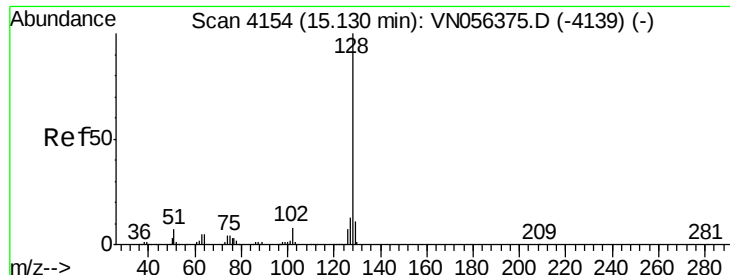


Abundance Ion 119.00 (118.70 to 119.70): VN056617.D (-3395) (-)

Ion 91.00 (90.70 to 91.70): VN056617.D (-3395) (-)

Ion 134.00 (133.70 to 134.70): VN056617.D (-3395) (-)





#95

Naphthalene

Concen: 5.976 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056617.D

Acq: 8 Jul 2019 18:14

Instrument :

MSVOA_N

ClientSampleId :

OR-02-070319-B

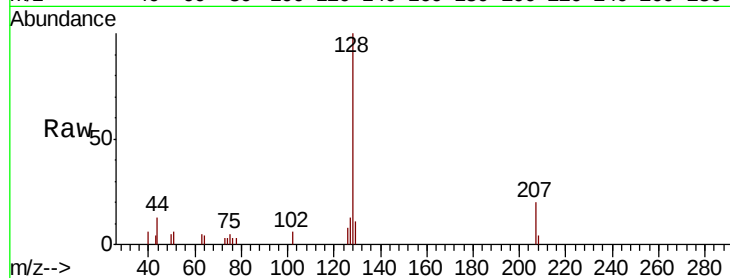
Tot Ion:128 Resp: 8194

Ion Ratio Lower Upper

128 100

127 13.4 10.2 15.2

129 9.8 8.6 12.8



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

