

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120519\
 Data File : VN059499.D
 Acq On : 5 Dec 2019 14:48
 Operator : JC/SP
 Sample : K6141-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CMJ-01-COMP

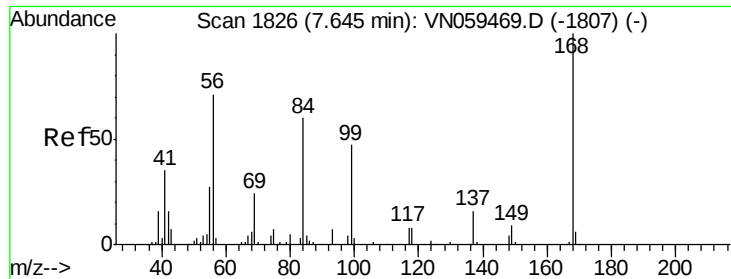
Quant Time: Dec 06 00:33:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	307627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	489634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	445980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	169250	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	202035	52.87	ug/l	0.00
Spiked Amount			Recovery	=	105.74%	
35) Dibromofluoromethane	7.57	113	152366	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	10.08	98	614979	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.40	95	198050	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	10024	Below Cal		95
18) Methyl Acetate	4.31	43	4009	0.779	ug/l #	76
20) Methylene Chloride	4.52	84	39596	10.042	ug/l	99
30) Chloroform	7.36	83	1345	0.210	ug/l	95
31) Cyclohexane	7.64	56	6328	0.983	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	24729	4.853	ug/l #	49
38) Carbon Tetrachloride	7.64	117	29908	6.103	ug/l #	17
43) Isopropyl Acetate	8.15	43	73192	8.646	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1641	0.412	ug/l #	44
48) Methyl methacrylate	9.17	41	4372	1.145	ug/l #	13
49) 1,4-Dioxane	9.26	88	99	1.713	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5065	1.008	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	29107	4.690	ug/l #	65
56) Ethyl methacrylate	10.54	69	1078	1.634	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5414	0.880	ug/l #	42
59) 2-Hexanone	10.76	43	79293	20.969	ug/l #	51
71) Bromoform	12.40	173	1190	0.436	ug/l #	1
74) N-amyl acetate	12.03	43	2737	0.501	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	97649	23.204	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4462	0.393	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	97649	60.896	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	5295	0.478	ug/l	100
95) Naphthalene	15.13	128	114904	13.766	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	281	2.042	ug/l #	75

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059499.D

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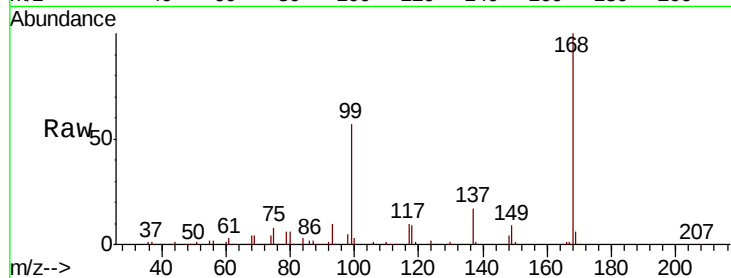
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Tot Ion:168 Resp: 307627

Ion Ratio Lower Upper

168 100

99 57.4 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

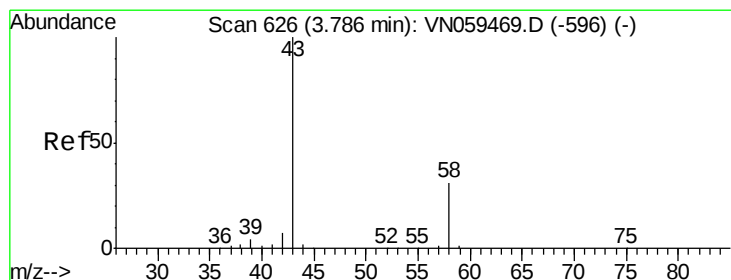
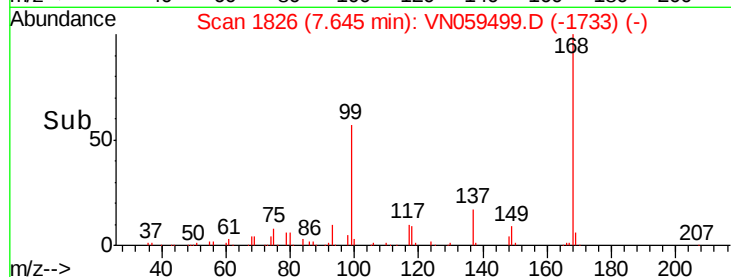
150000

100000

50000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059499.D

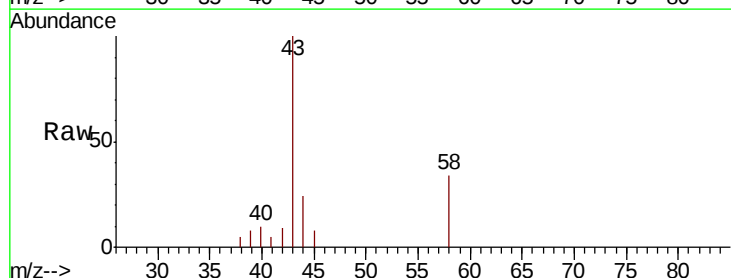
Acq: 5 Dec 2019 14:48

Tgt Ion: 43 Resp: 10024

Ion Ratio Lower Upper

43 100

58 34.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

4000

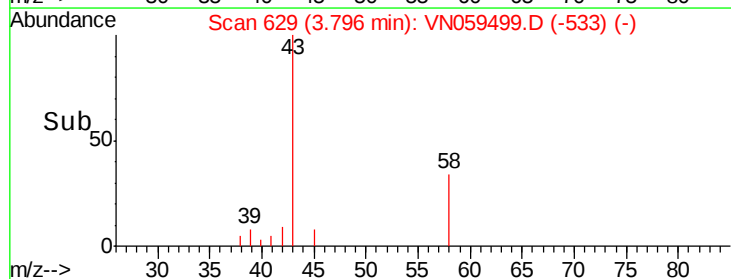
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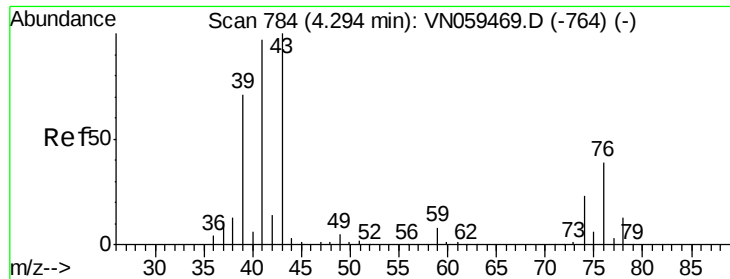
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1000

0

Time-->

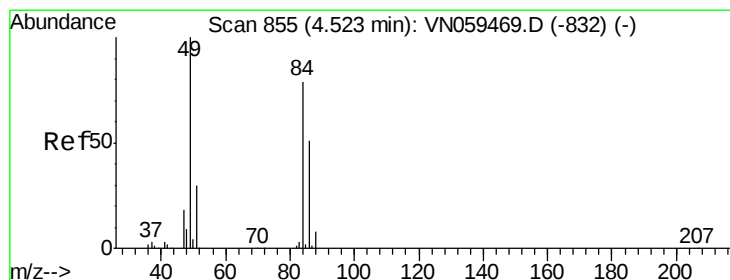
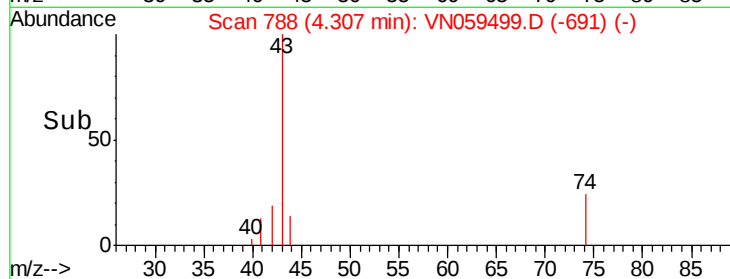
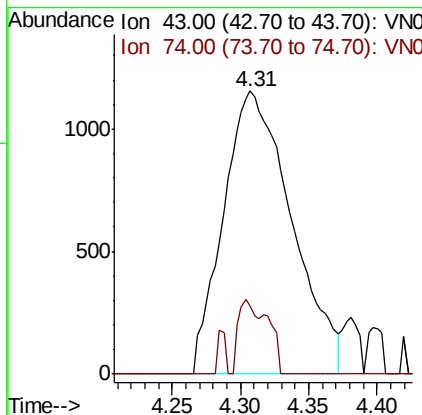
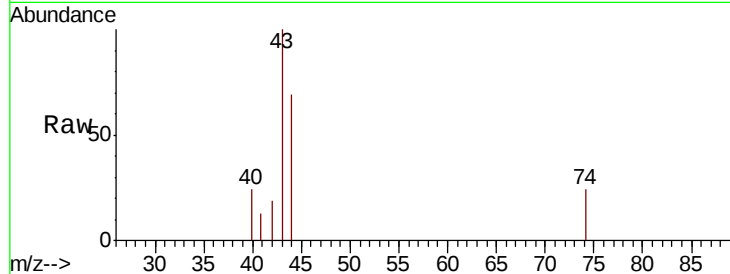




#18
Methyl Acetate
Concen: 0.779 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

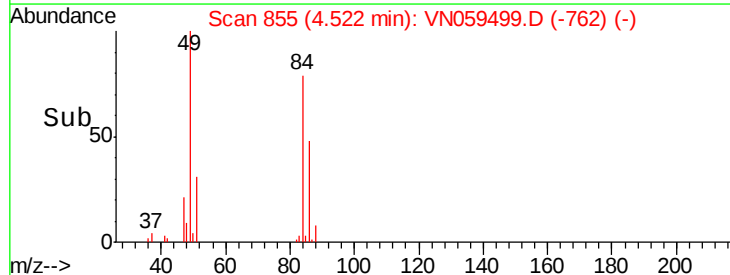
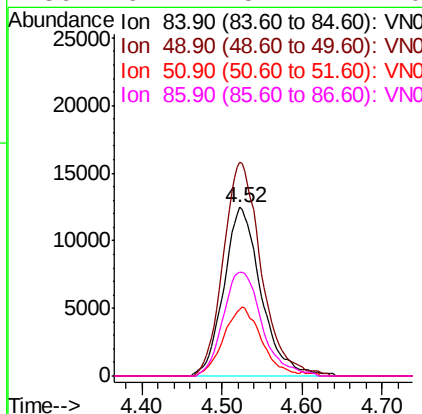
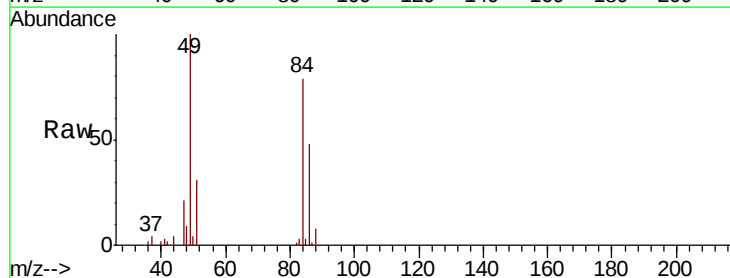
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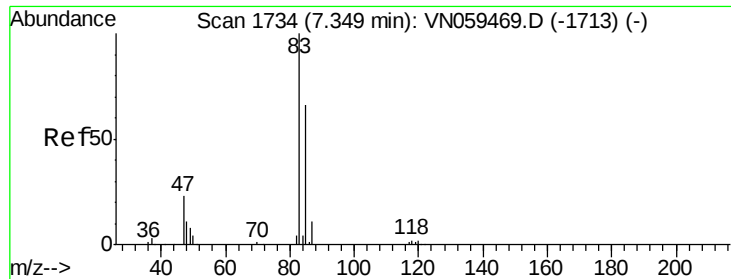
Tot Ion: 43 Resp: 4009
Ion Ratio Lower Upper
43 100
74 11.4 18.3 27.5#



#20
Methylene Chloride
Concen: 10.042 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

Tgt Ion: 84 Resp: 39596
Ion Ratio Lower Upper
84 100
49 126.7 101.1 151.7
51 39.7 30.7 46.1
86 61.4 51.4 77.0

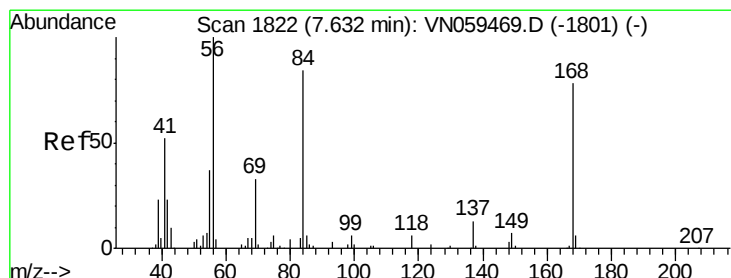
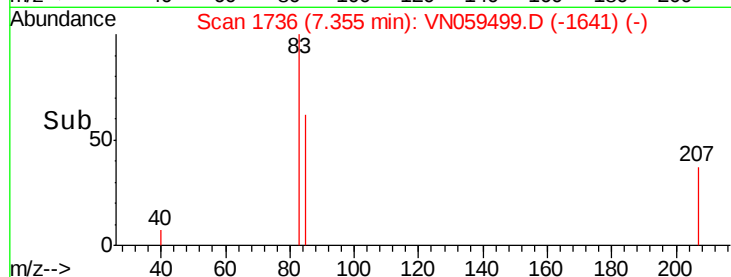
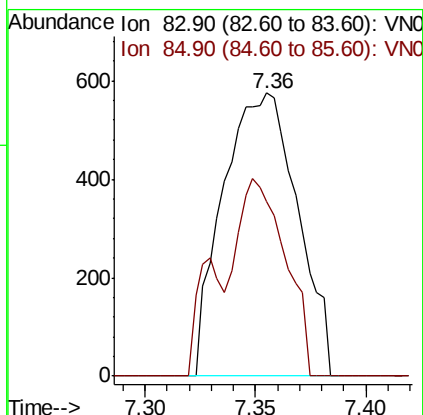
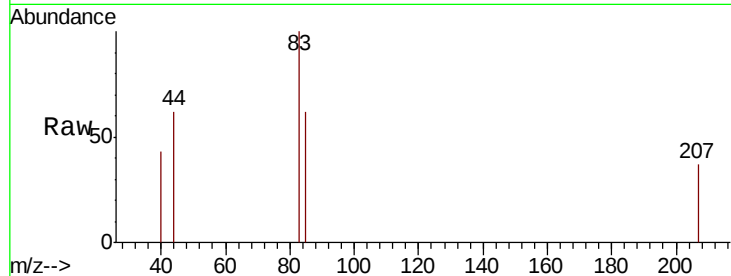




#30
Chloroform
Concen: 0.210 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.01 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

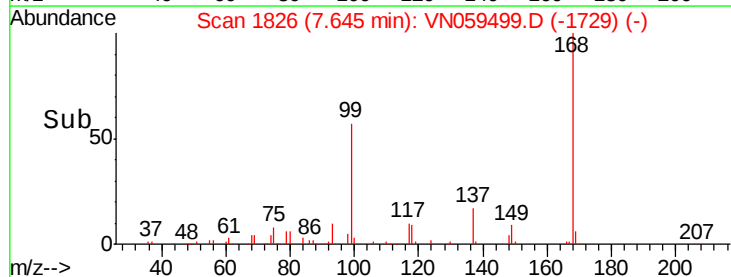
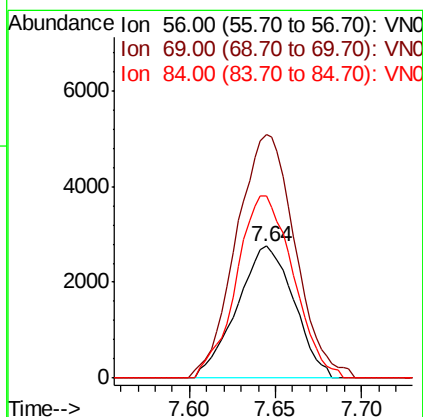
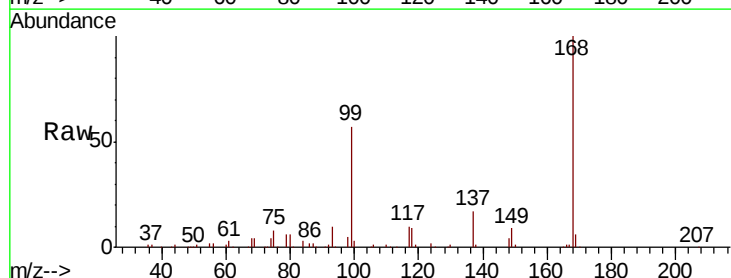
Instrument :
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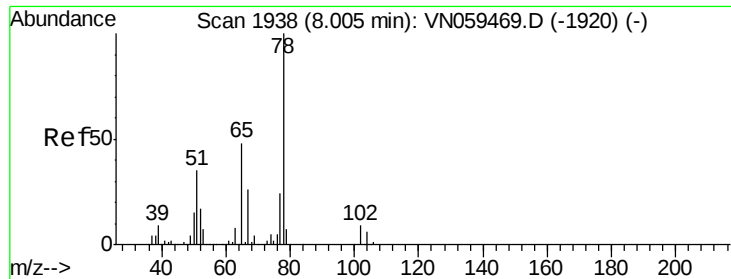
Tot Ion: 83 Resp: 1345
Ion Ratio Lower Upper
83 100
85 61.7 52.4 78.6



#31
Cyclohexane
Concen: 0.983 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

Tgt Ion: 56 Resp: 6328
Ion Ratio Lower Upper
56 100
69 184.9 26.2 39.4#
84 138.8 66.8 100.2#

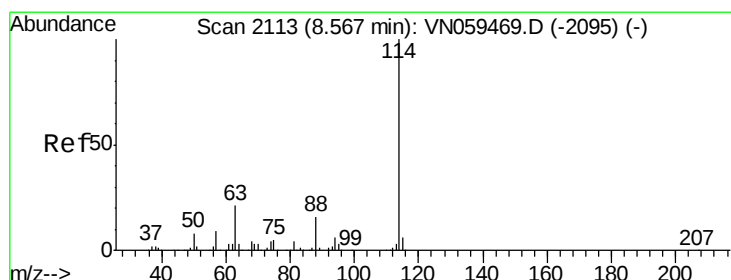
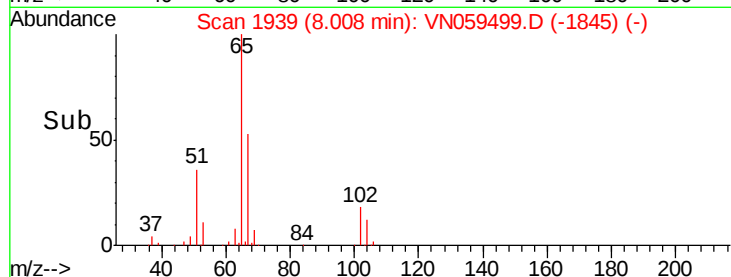
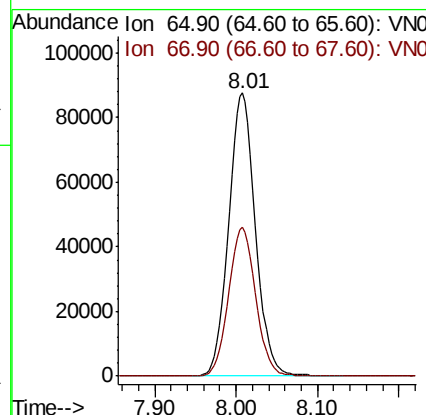
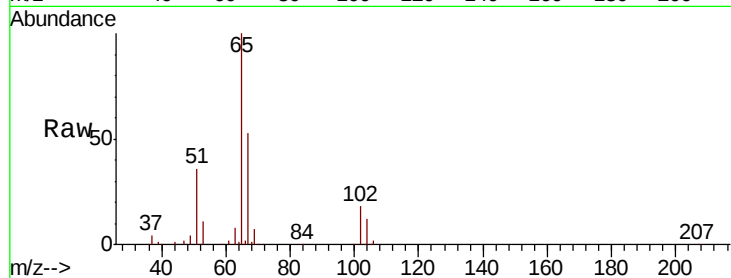




#33
 1,2-Dichloroethane-d4
 Concen: 52.867 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

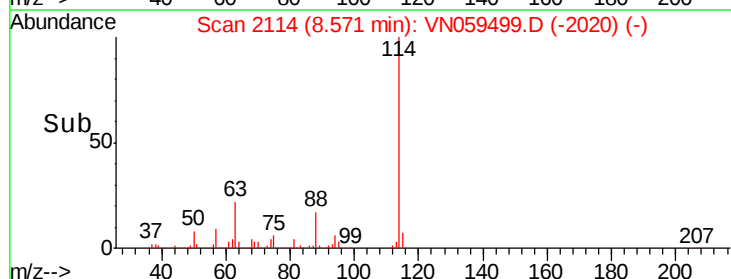
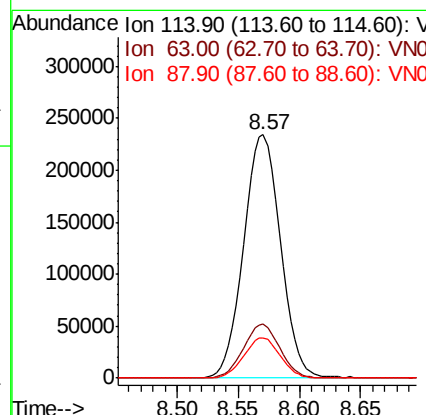
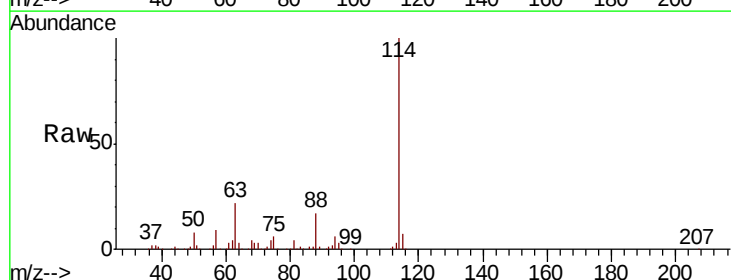
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 CMJ-01-COMP

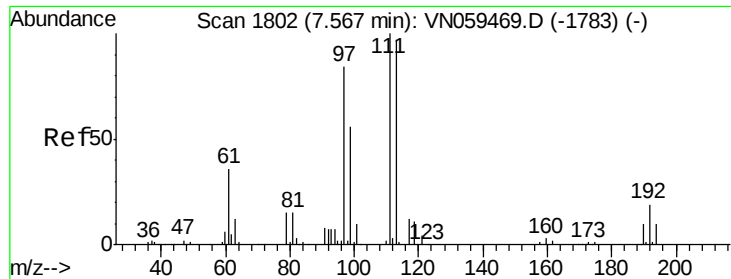
Tot Ion: 65 Resp: 202035
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

Tgt Ion: 114 Resp: 489634
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.4
 88 16.5 0.0 32.8

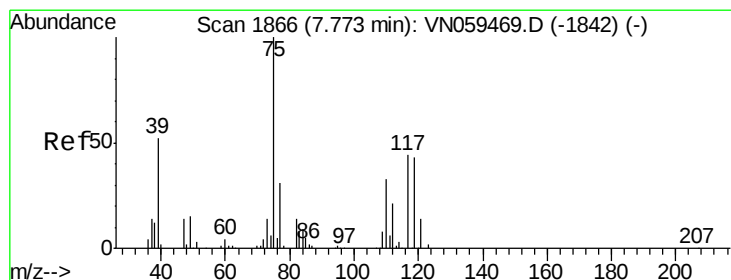
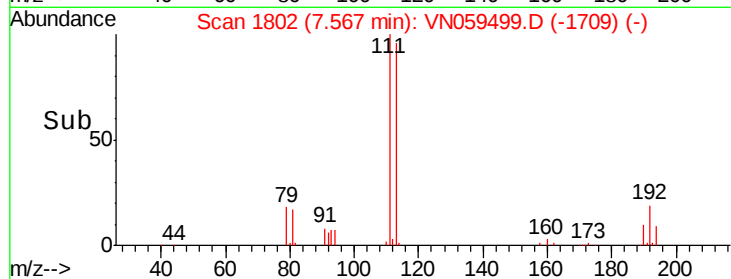
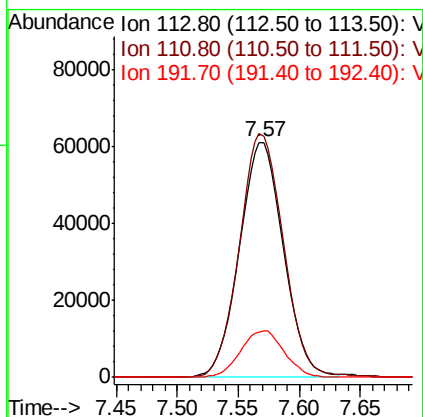
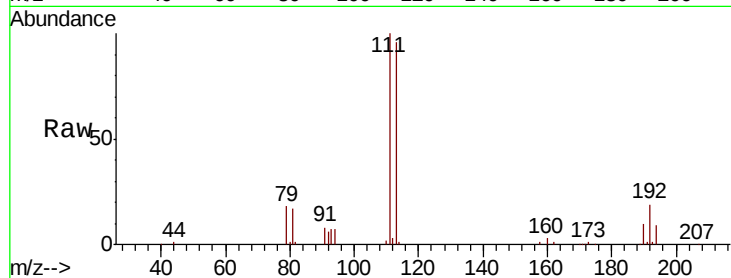




#35
 Dibromofluoromethane
 Concen: 49.963 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

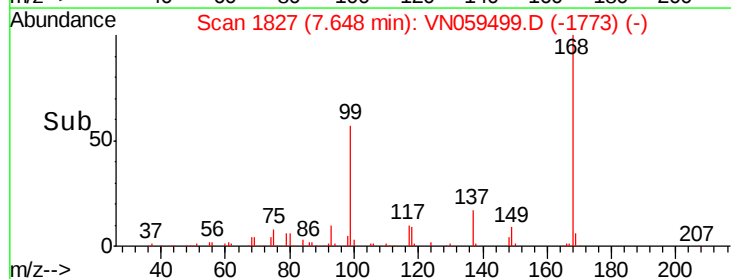
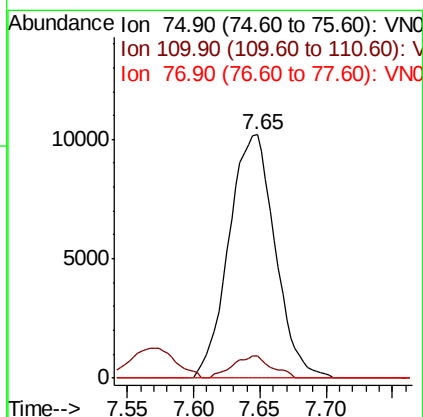
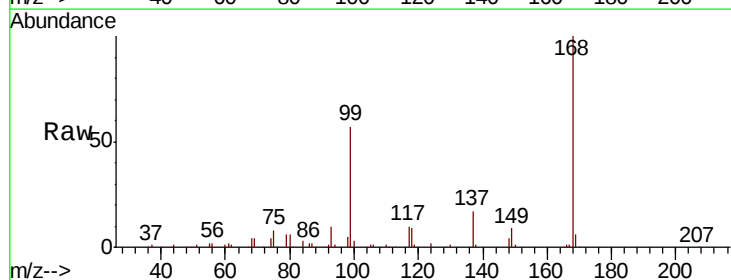
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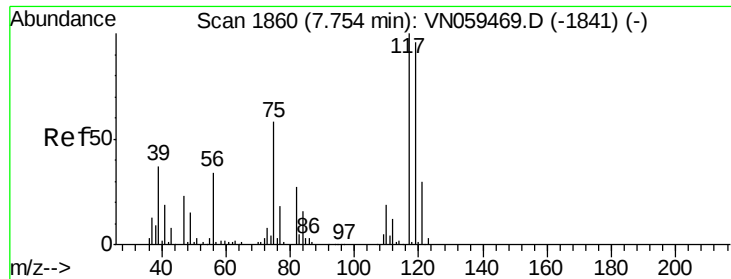
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.5	123.7
192	19.8	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 4.853 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	16.9	50.7#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.103 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

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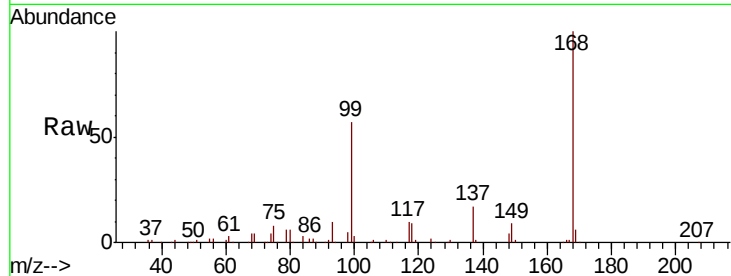
Tot Ion:117 Resp: 29908

Ion Ratio Lower Upper

117 100

119 5.8 76.6 114.8#

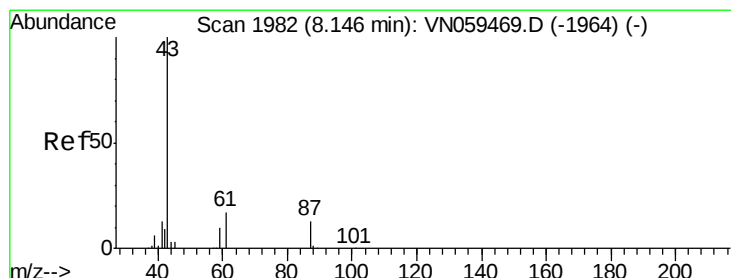
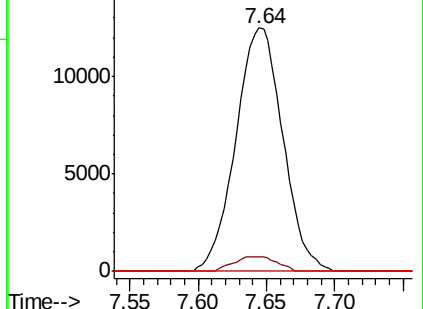
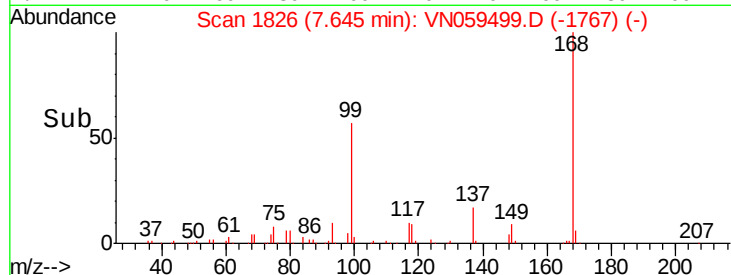
121 0.0 24.0 36.0#



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: 8.646 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

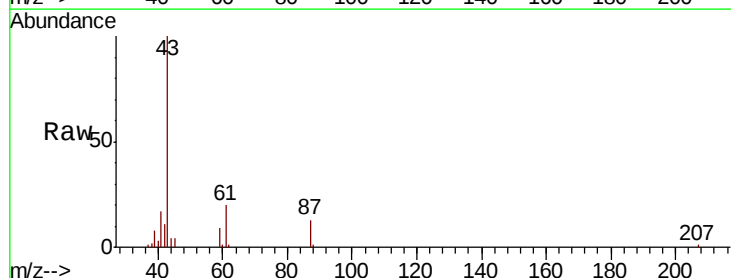
Tgt Ion: 43 Resp: 73192

Ion Ratio Lower Upper

43 100

61 19.9 21.0 31.6#

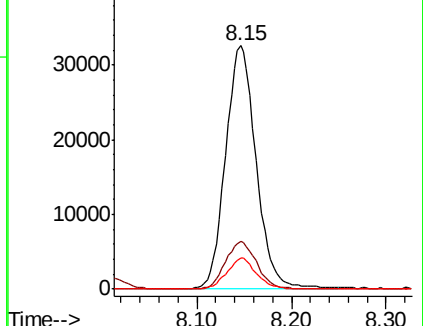
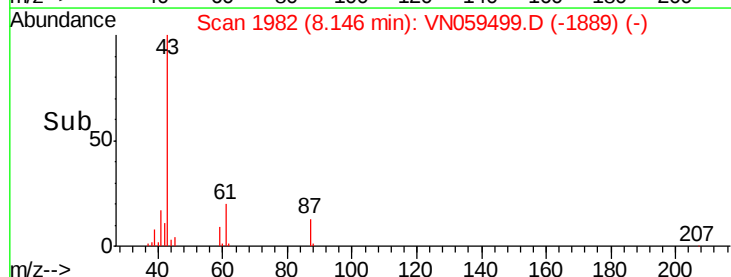
87 12.2 10.4 15.6

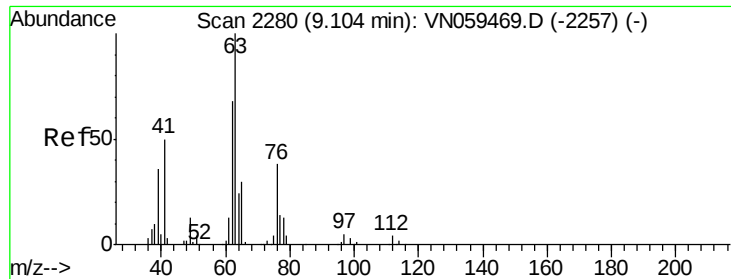


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

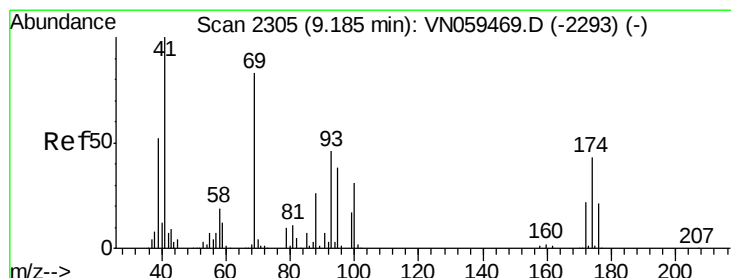
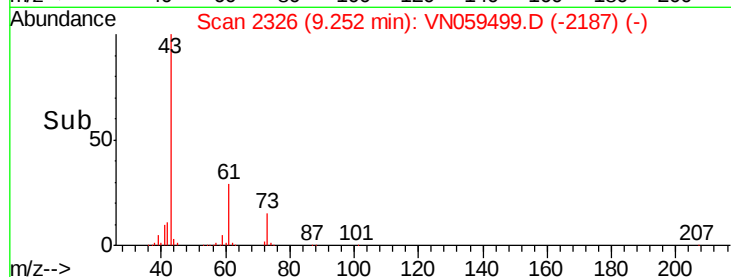
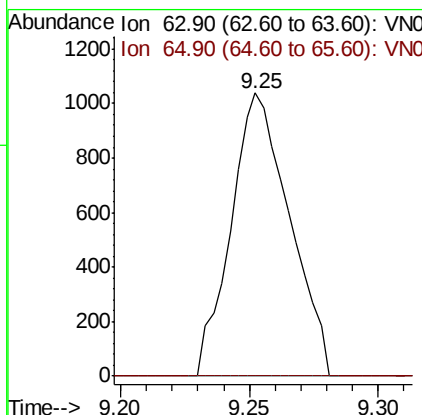
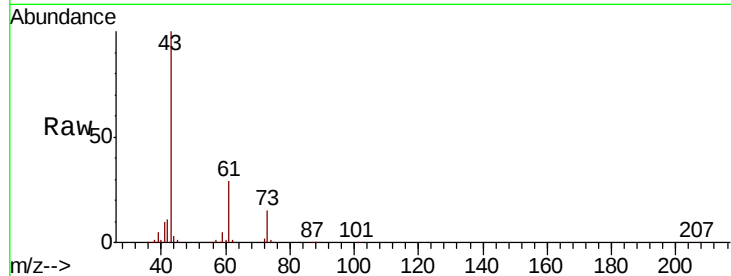




#45
 1,2-Dichloropropane
 Concen: 0.412 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

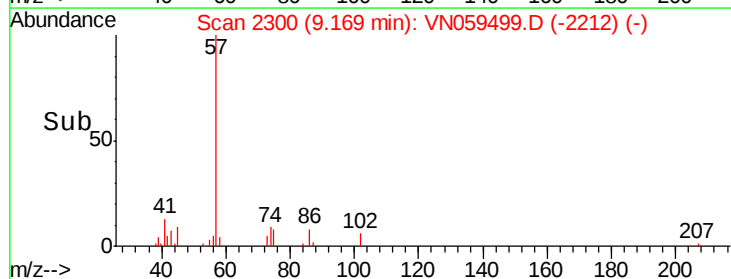
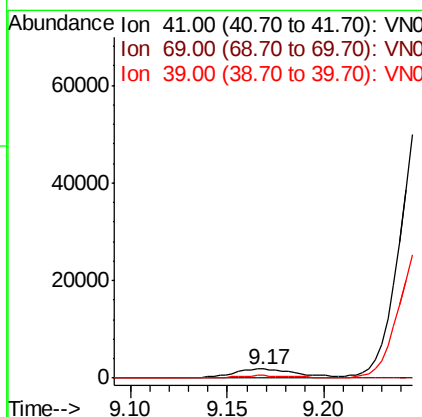
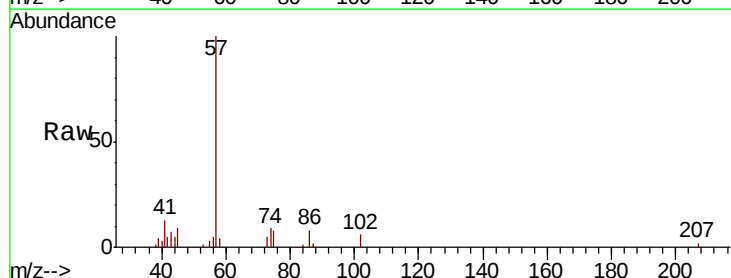
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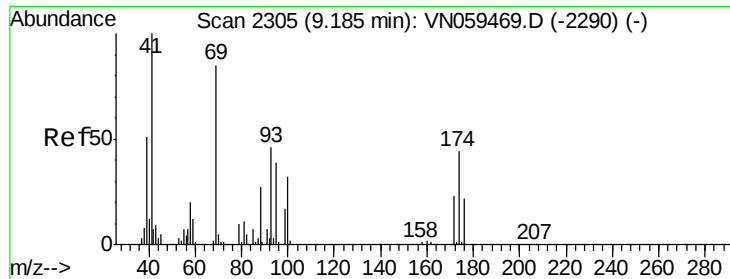
Tot Ion: 63 Resp: 1641
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.145 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN059499.D
 Acq: 5 Dec 2019 14:48

Tgt Ion: 41 Resp: 4372
 Ion Ratio Lower Upper
 41 100
 69 0.0 68.6 103.0#
 39 0.0 43.2 64.8#





#49

1,4-Dioxane

Concen: 1.713 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.07 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

CMJ-01-COMP

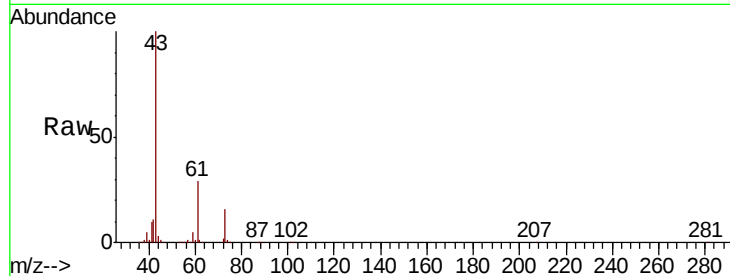
Tot Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 1355549.5 27.1 40.7#

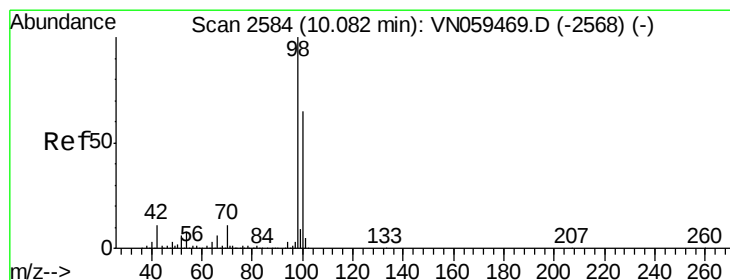
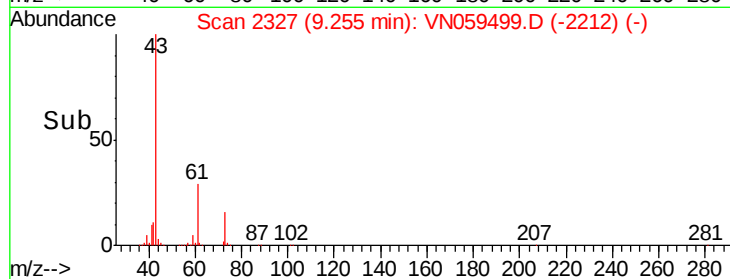
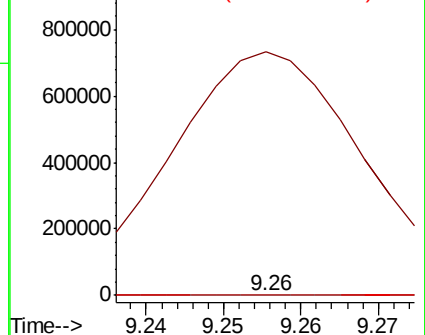
58 5749.5 57.8 86.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.147 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059499.D

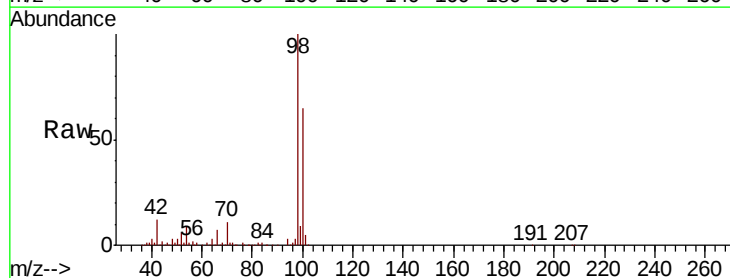
Acq: 5 Dec 2019 14:48

Tgt Ion: 98 Resp: 614979

Ion Ratio Lower Upper

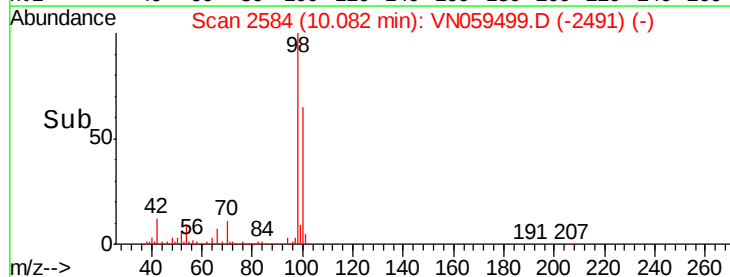
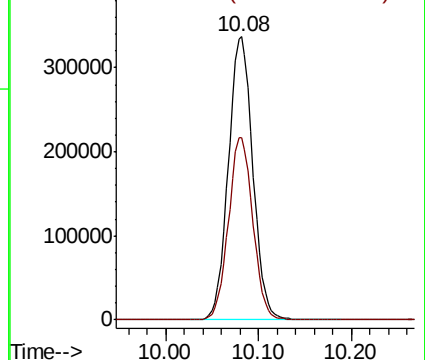
98 100

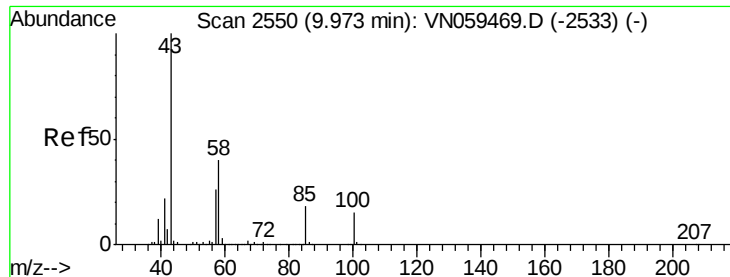
100 64.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.008 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

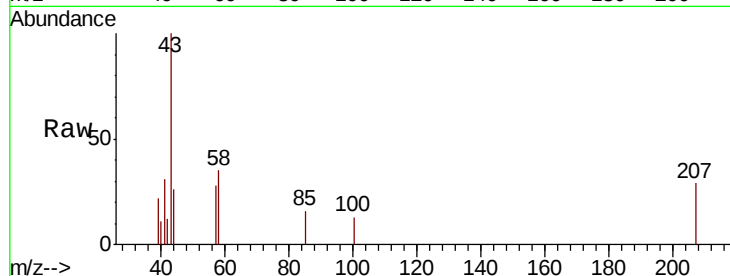
CMJ-01-COMP

Tot Ion: 43 Resp: 5065

Ion Ratio Lower Upper

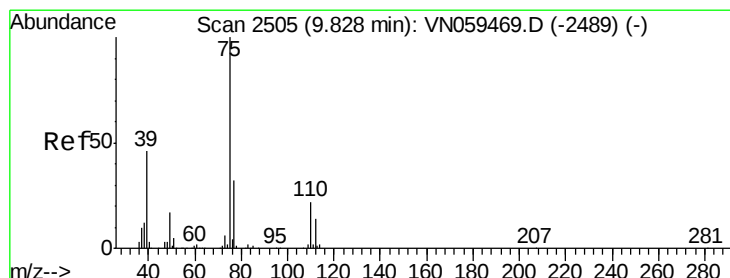
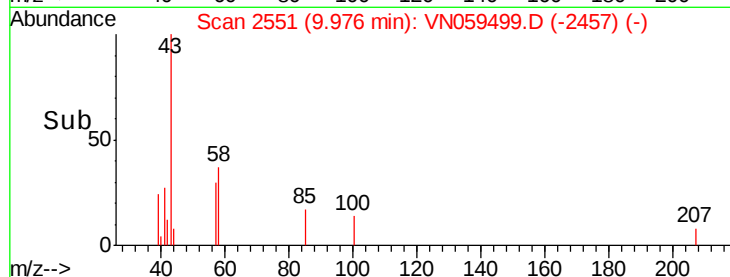
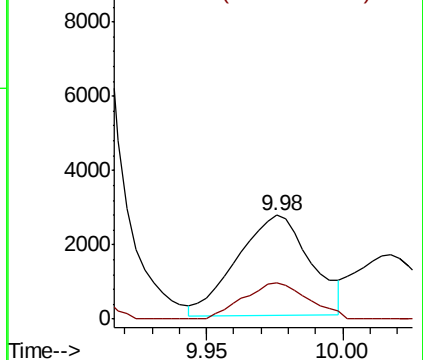
43 100

58 32.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.690 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

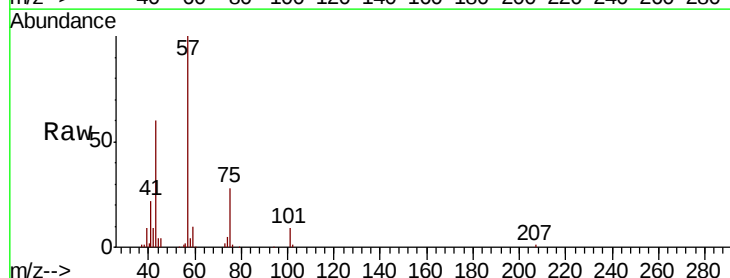
Tgt Ion: 75 Resp: 29107

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

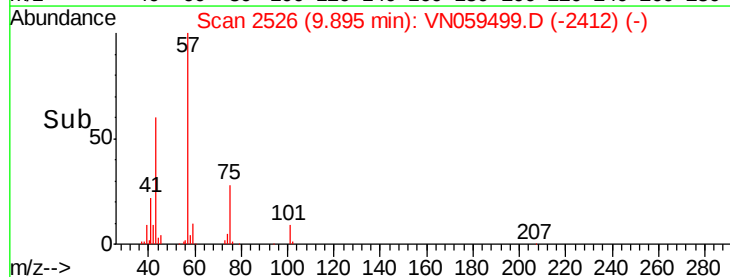
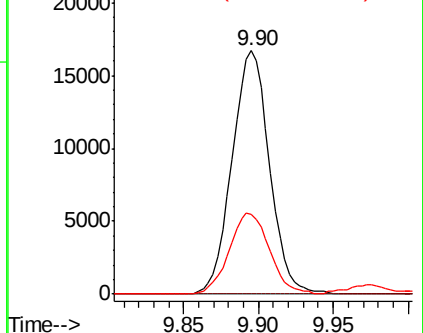
39 33.0 36.6 54.8#

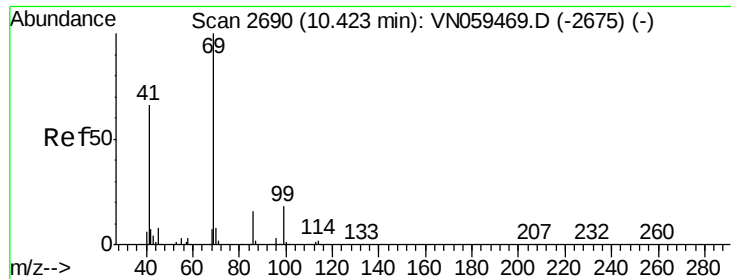


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.634 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

CMJ-01-COMP

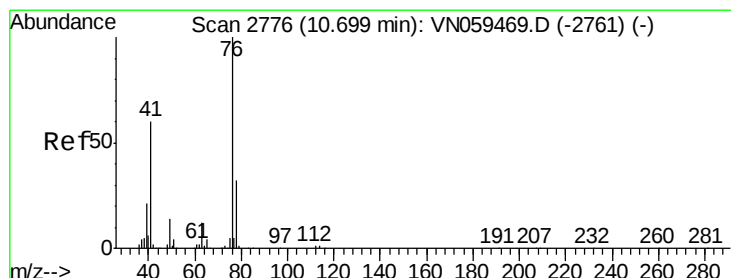
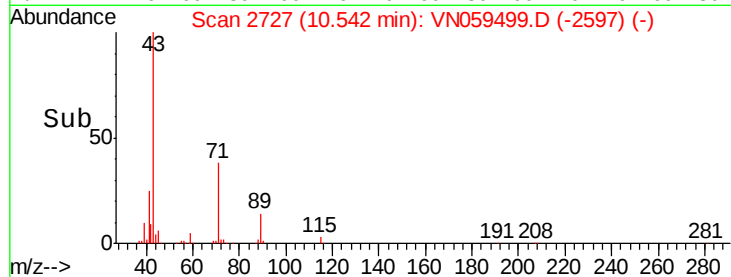
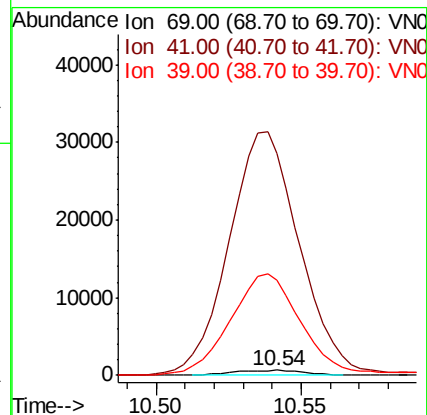
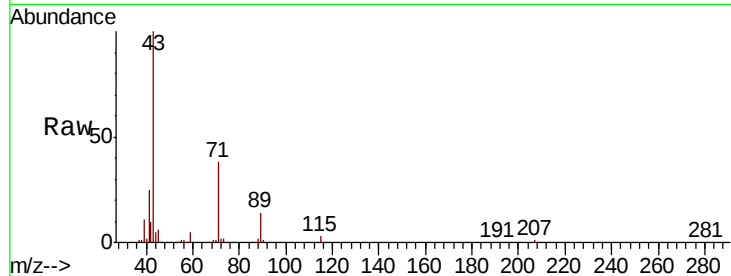
Tot Ion: 69 Resp: 1078

Ion Ratio Lower Upper

69 100

41 4940.2 52.7 79.1#

39 2048.1 25.0 37.6#



#57

1,3-Dichloropropane

Concen: 0.880 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059499.D

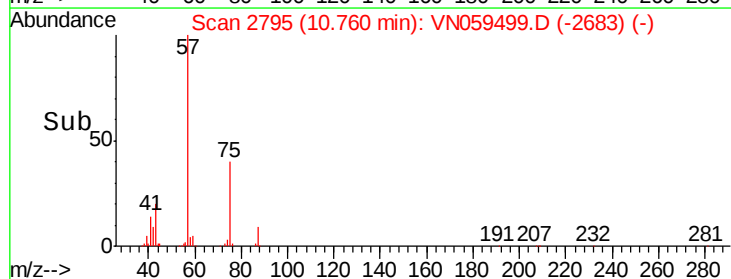
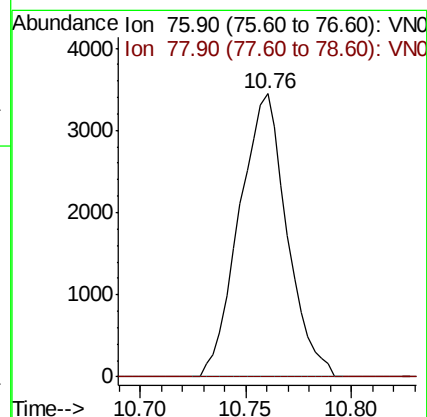
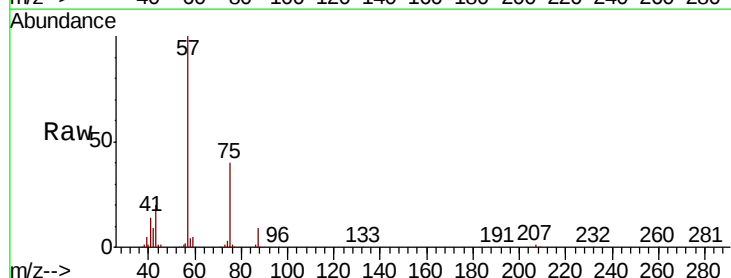
Acq: 5 Dec 2019 14:48

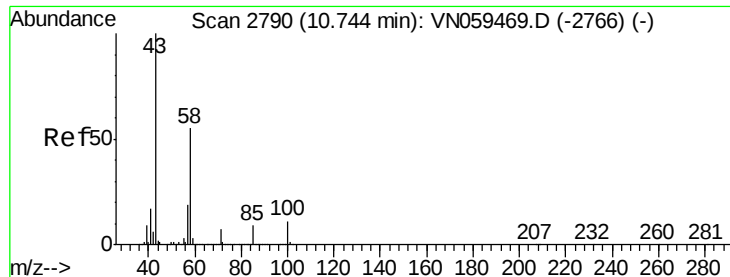
Tgt Ion: 76 Resp: 5414

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

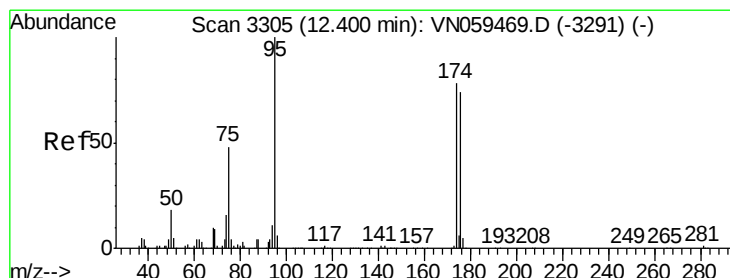
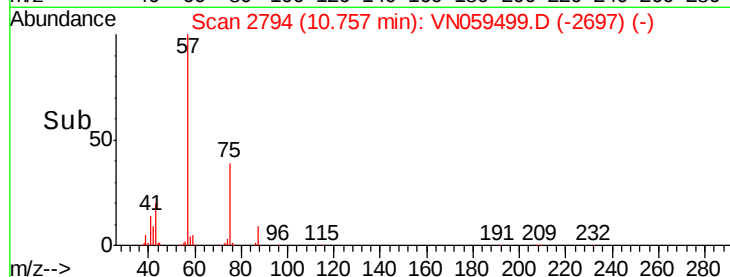
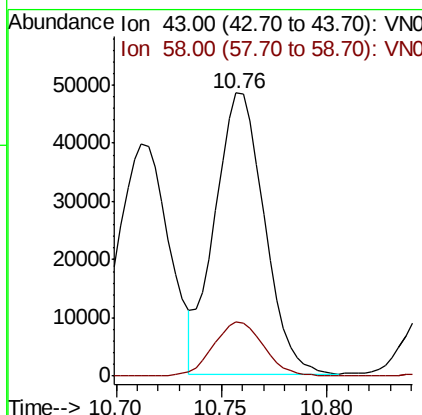
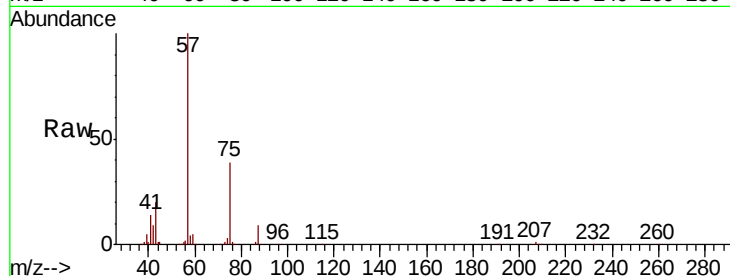




#59
2-Hexanone
Concen: 20.969 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

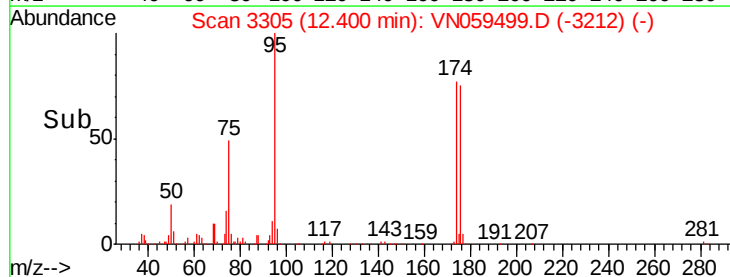
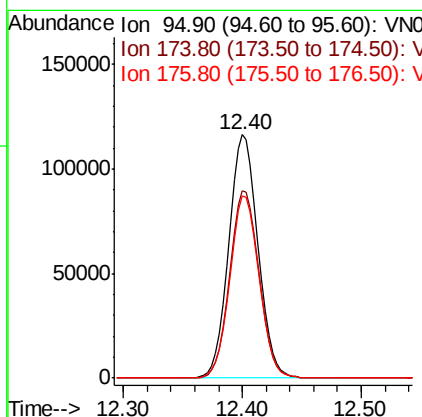
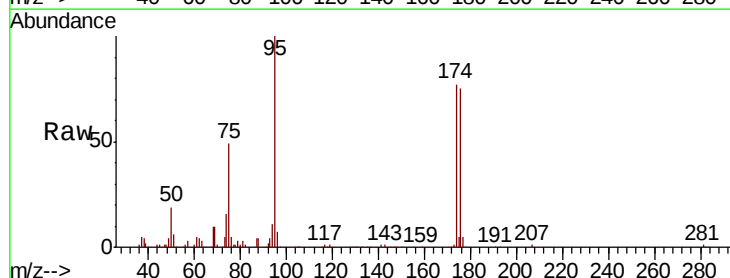
Instrument :
MSVOA_N
ClientSampled :
CMJ-01-COMP

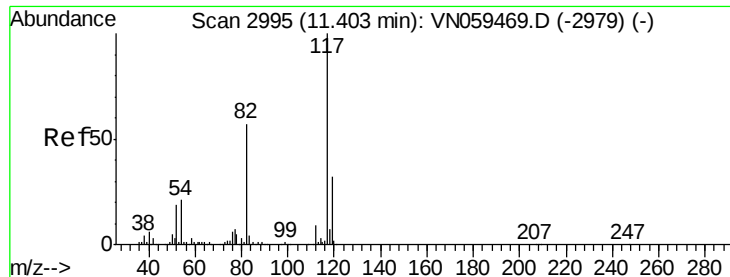
Tot Ion: 43 Resp: 79293
Ion Ratio Lower Upper
43 100
58 19.6 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 47.165 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

Tgt Ion: 95 Resp: 198050
Ion Ratio Lower Upper
95 100
174 77.5 0.0 157.0
176 74.9 0.0 152.4

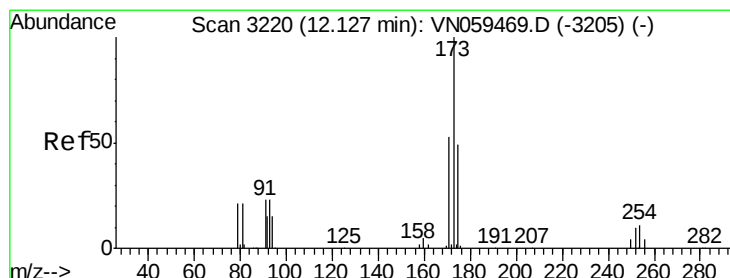
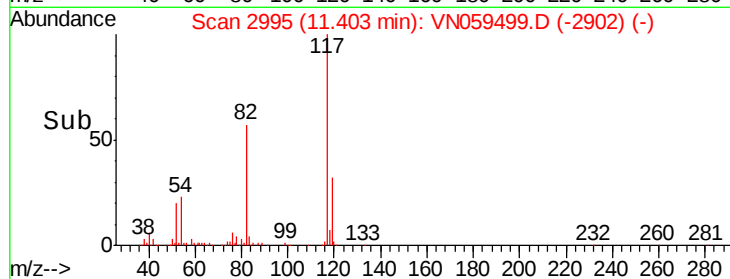
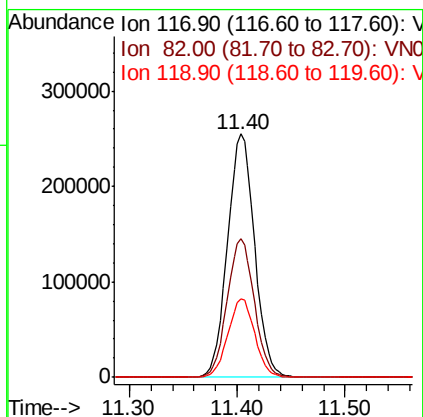
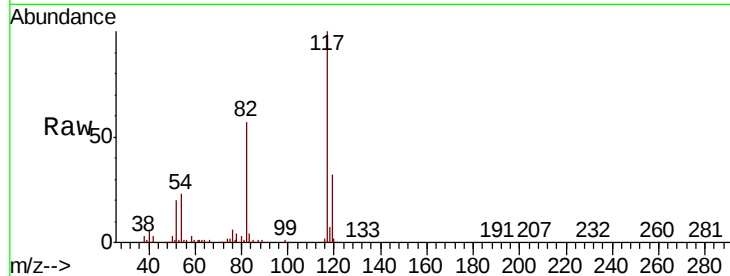




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

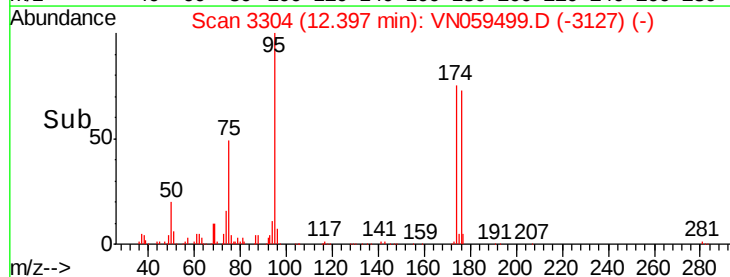
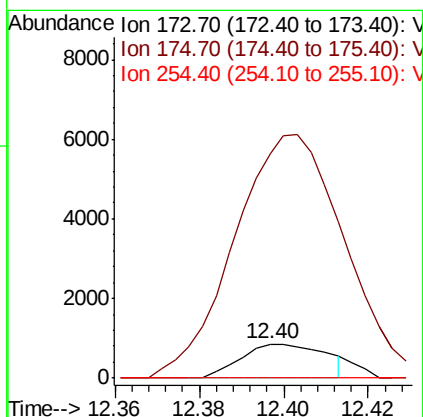
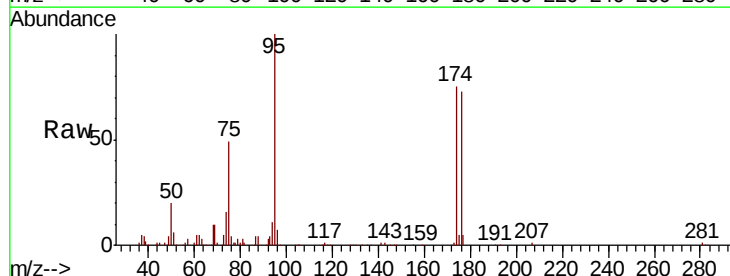
Instrument :
MSVOA_N
ClientSampleId :
CMJ-01-COMP

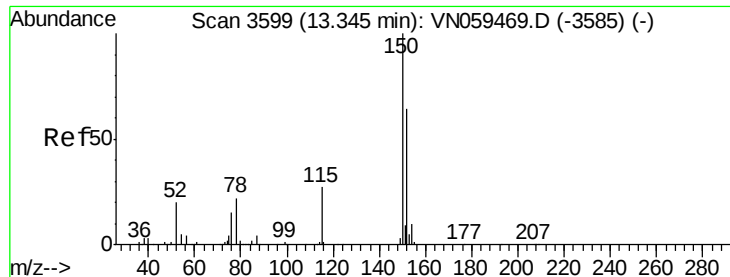
Tot Ion:117 Resp: 445980
Ion Ratio Lower Upper
117 100
82 56.7 45.8 68.8
119 32.3 25.4 38.0



#71
Bromoform
Concen: 0.436 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059499.D
Acq: 5 Dec 2019 14:48

Tgt Ion:173 Resp: 1190
Ion Ratio Lower Upper
173 100
175 803.4 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

CMJ-01-COMP

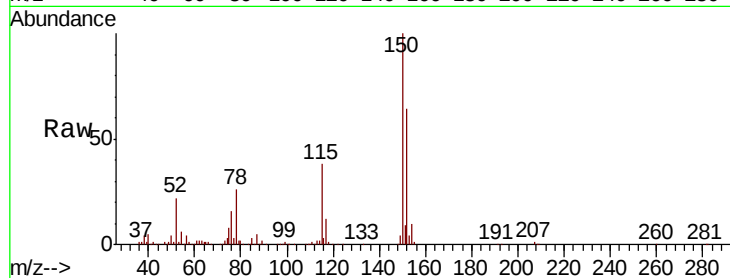
Tot Ion:152 Resp: 169250

Ion Ratio Lower Upper

152 100

115 59.6 29.2 87.6

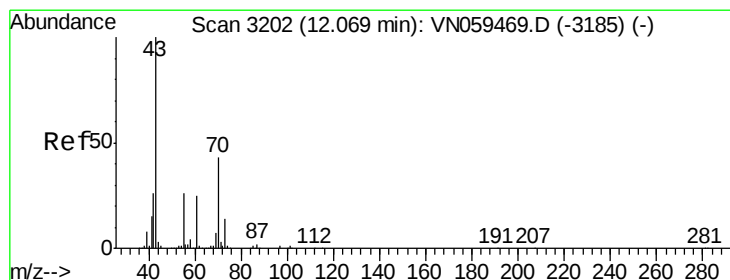
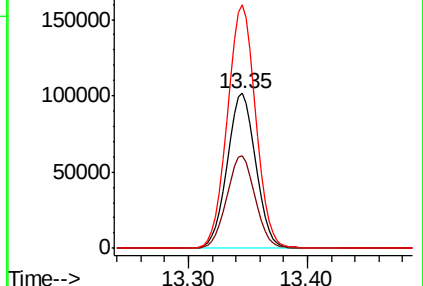
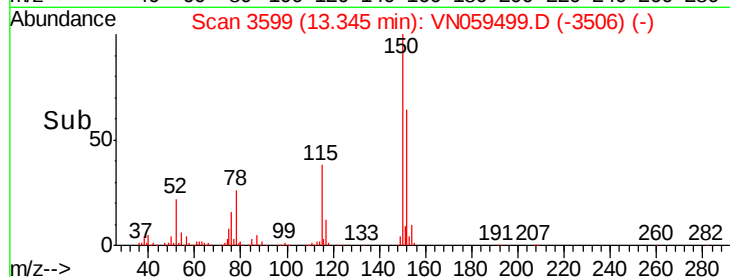
150 155.4 0.0 352.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.501 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Tgt Ion: 43 Resp: 2737

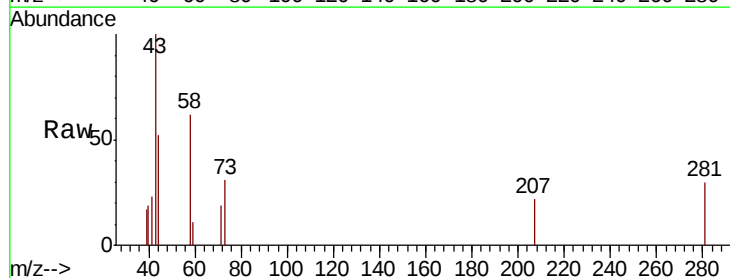
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 0.0 20.6 31.0#

61 0.0 19.3 28.9#

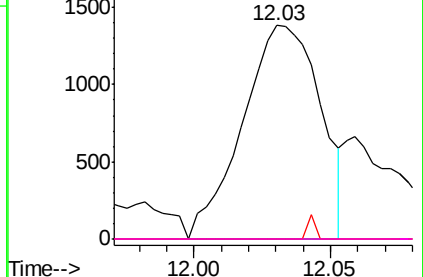
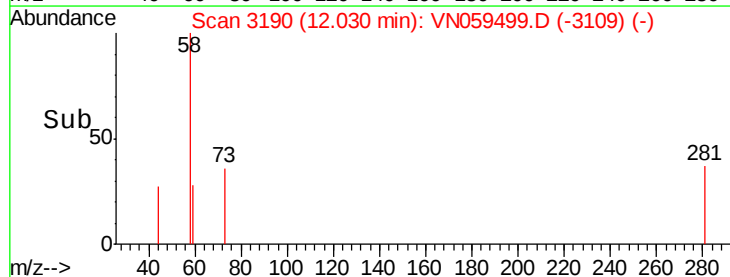


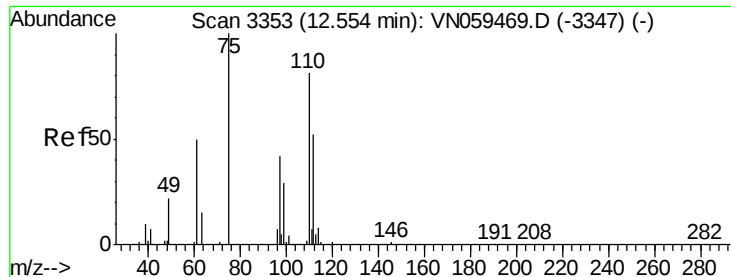
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 23.204 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

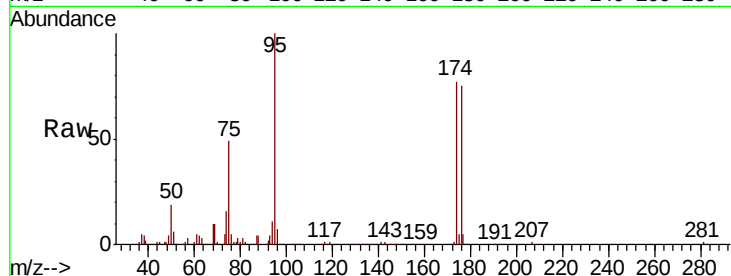
CMJ-01-COMP

Tot Ion: 75 Resp: 97649

Ion Ratio Lower Upper

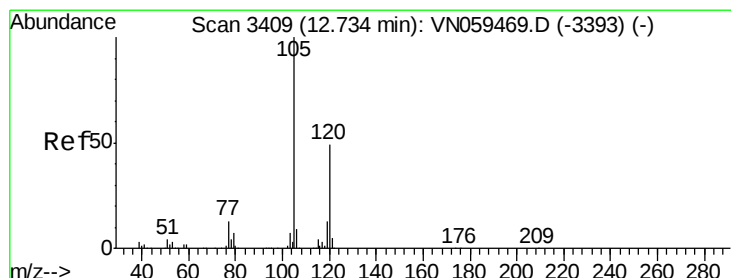
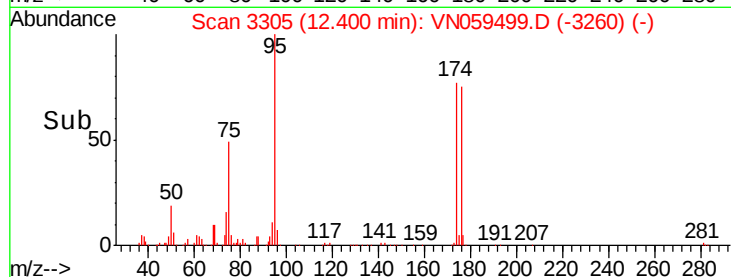
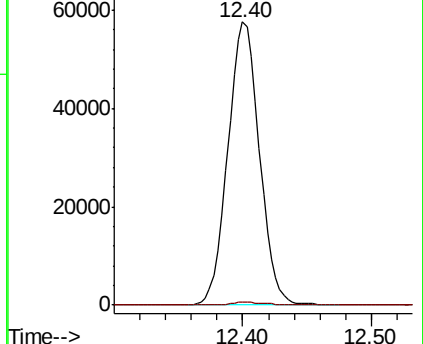
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059469.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059469.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.393 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059499.D

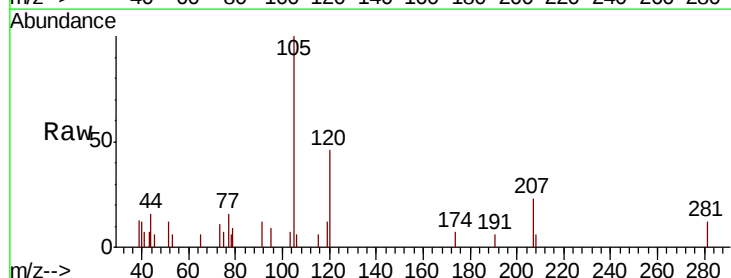
Acq: 5 Dec 2019 14:48

Tgt Ion: 105 Resp: 4462

Ion Ratio Lower Upper

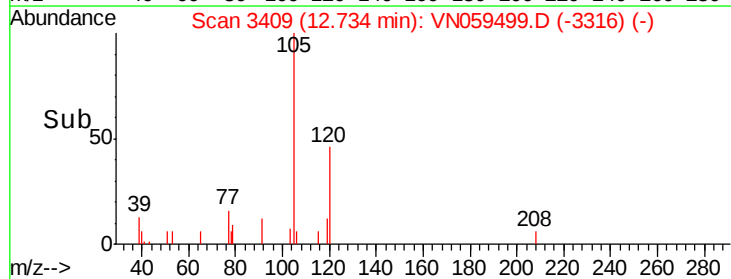
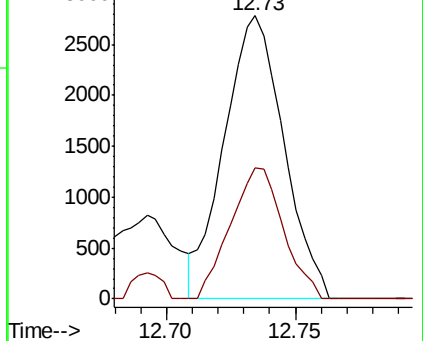
105 100

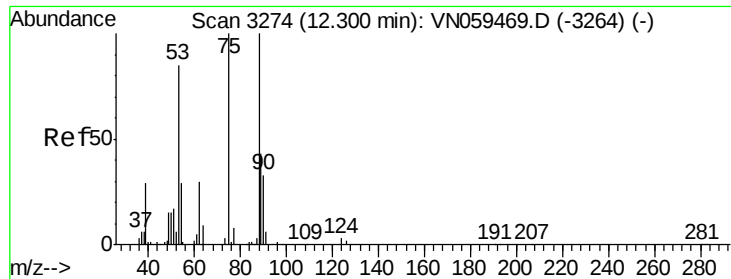
120 41.3 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN059469.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN059469.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 60.896 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

CMJ-01-COMP

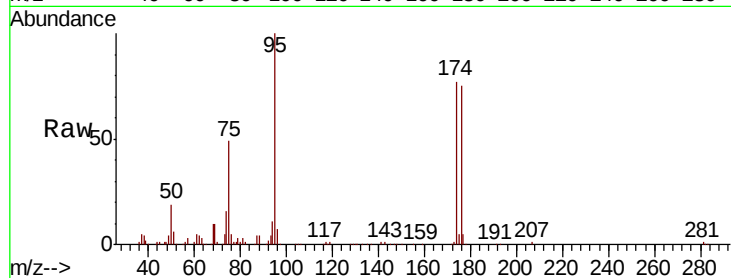
Tot Ion: 75 Resp: 97649

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

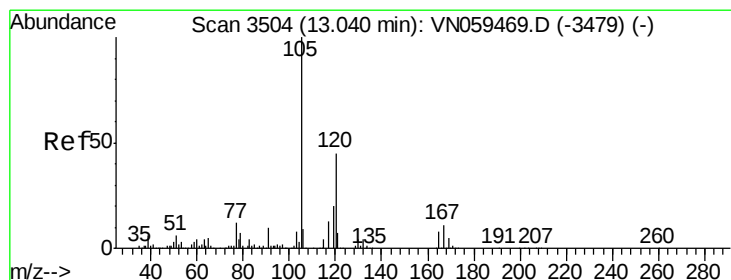
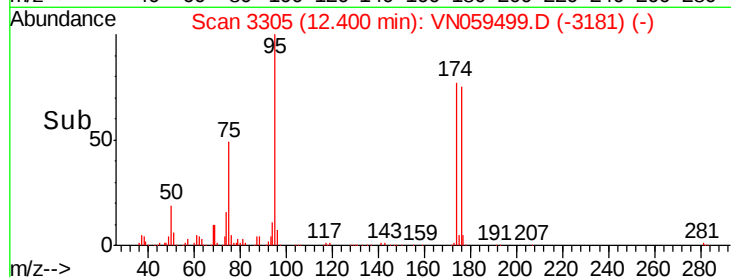
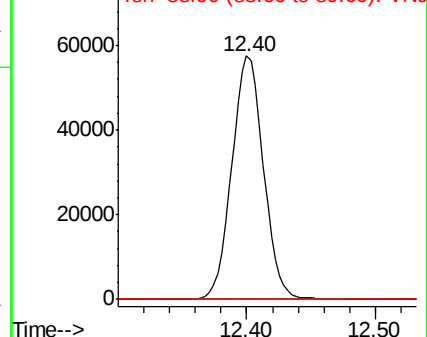
89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059469.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN059469.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN059469.D (-3264) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.478 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059499.D

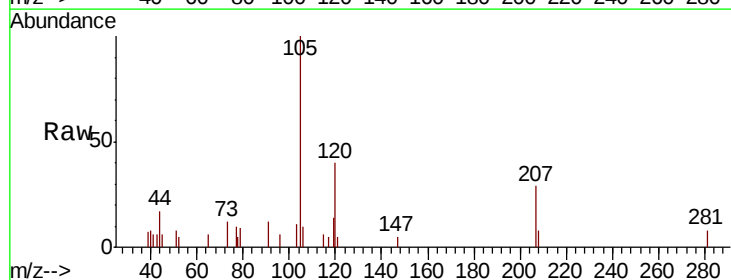
Acq: 5 Dec 2019 14:48

Tgt Ion: 105 Resp: 5295

Ion Ratio Lower Upper

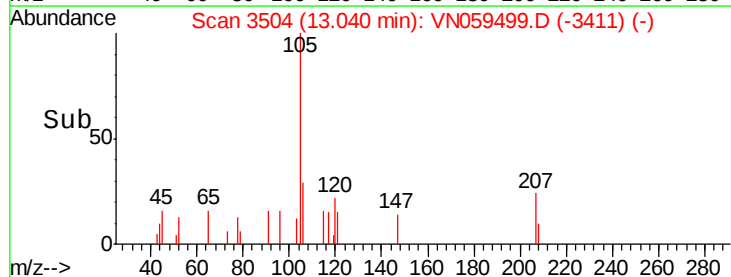
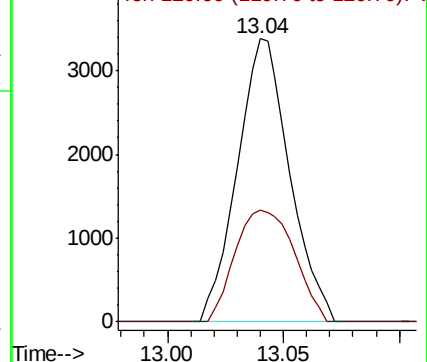
105 100

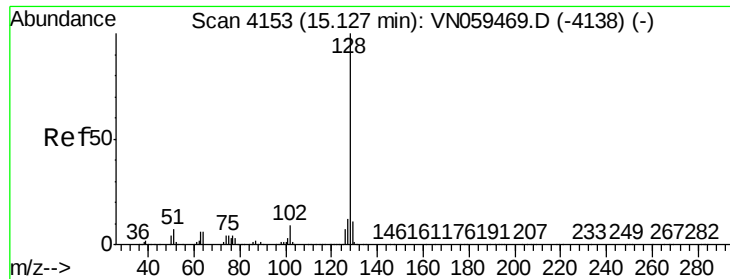
120 44.9 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): VN059469.D (-3479) (-)

Ion 120.00 (119.70 to 120.70): VN059469.D (-3479) (-)





#95

Naphthalene

Concen: 13.766 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

Instrument :

MSVOA_N

ClientSampleId :

CMJ-01-COMP

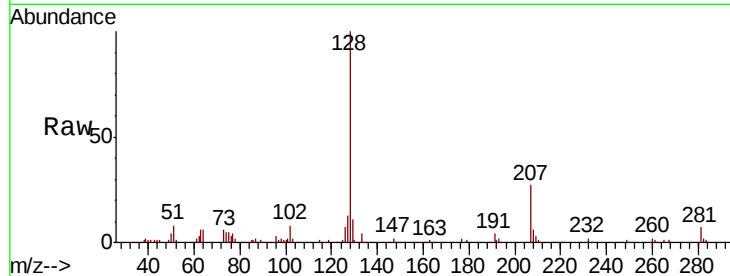
Tot Ion:128 Resp: 114904

Ion Ratio Lower Upper

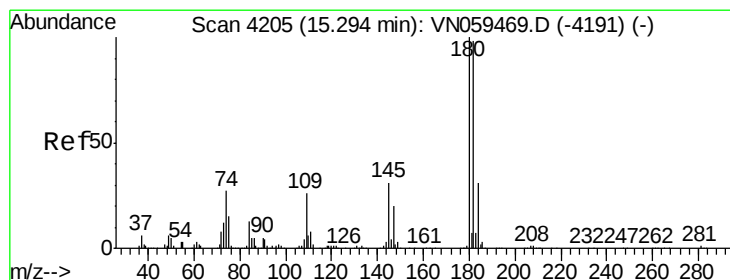
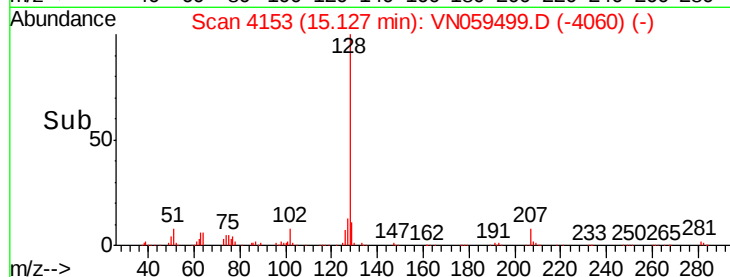
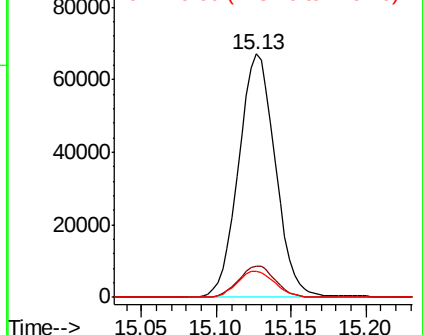
128 100

127 12.8 10.2 15.4

129 11.2 8.8 13.2



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: 2.042 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN059499.D

Acq: 5 Dec 2019 14:48

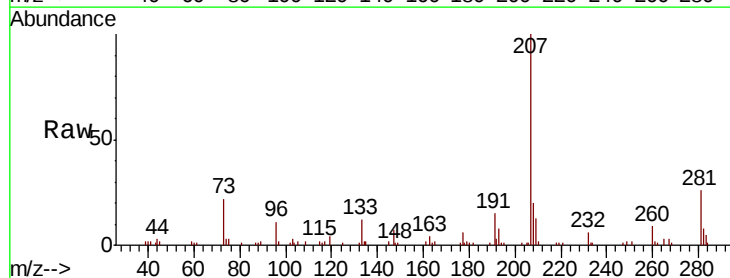
Tgt Ion:180 Resp: 281

Ion Ratio Lower Upper

180 100

182 111.7 48.5 145.5

145 63.7 16.1 48.2#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

