

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059515.D
 Acq On : 6 Dec 2019 15:15
 Operator : JC/SP
 Sample : K6147-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:20:37 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	225461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	358189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	325762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	117299	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	161830	57.78	ug/l	0.00
Spiked Amount			Recovery	=	115.56%	
35) Dibromofluoromethane	7.57	113	117207	52.54	ug/l	0.00
Spiked Amount			Recovery	=	105.08%	
50) Toluene-d8	10.08	98	454253	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	12.40	95	140517	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

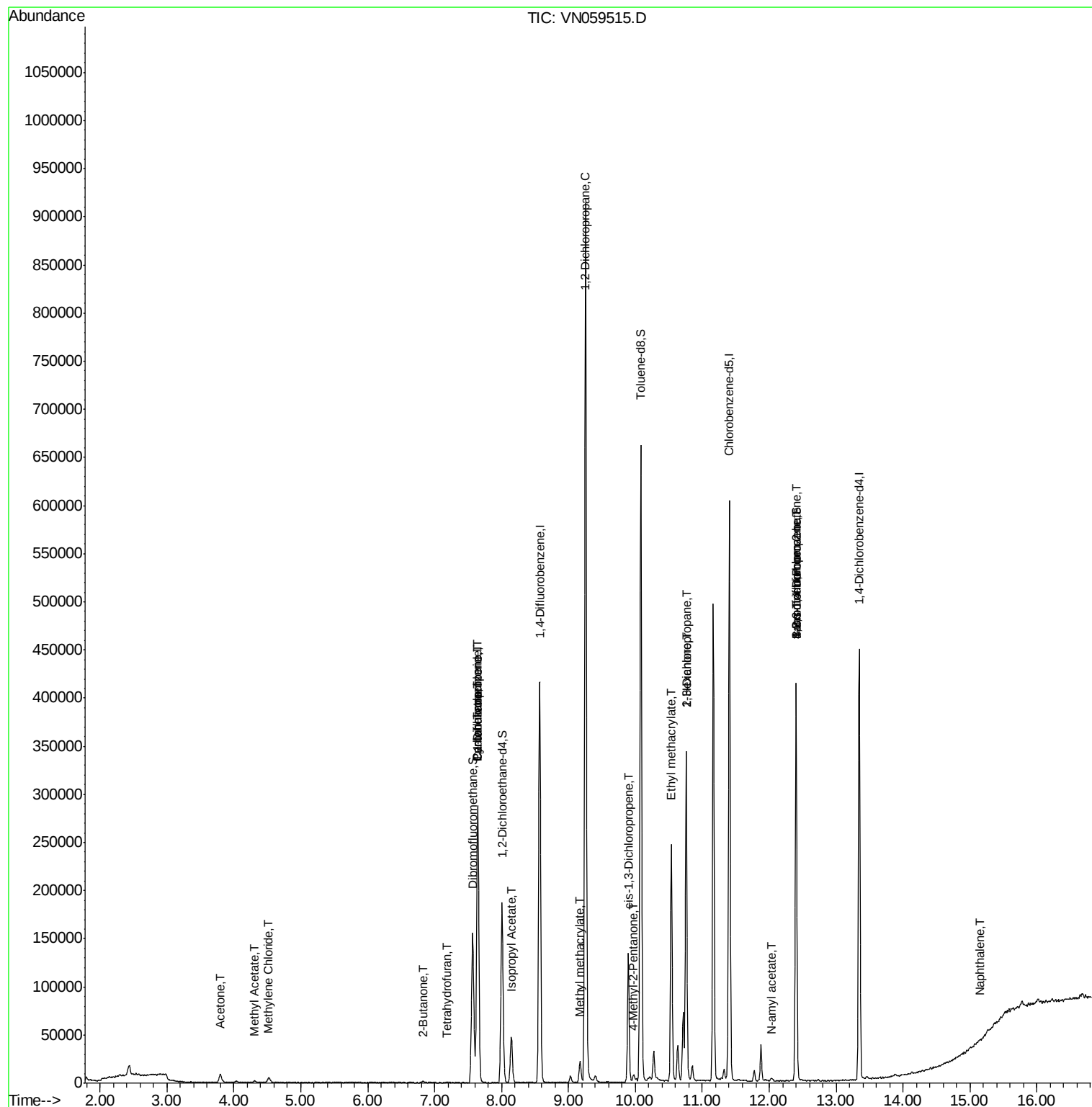
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	15125	4.560	ug/l	96
18) Methyl Acetate	4.31	43	3250	0.862	ug/l #	80
20) Methylene Chloride	4.52	84	3993	0.322	ug/l	89
25) 2-Butanone	6.83	43	2962	1.391	ug/l #	88
29) Tetrahydrofuran	7.20	42	470	0.351	ug/l #	34
31) Cyclohexane	7.64	56	5203	1.103	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	19101	5.124	ug/l #	49
38) Carbon Tetrachloride	7.64	117	22793	6.358	ug/l #	16
43) Isopropyl Acetate	8.15	43	57006	9.206	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	925	0.317	ug/l #	44
48) Methyl methacrylate	9.17	41	3582	1.282	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5106	1.389	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	22213	4.892	ug/l #	75
56) Ethyl methacrylate	10.54	69	909	1.661	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3347	0.744	ug/l #	42
59) 2-Hexanone	10.76	43	51718	18.696	ug/l #	51
71) Bromoform	12.40	173	908	0.455	ug/l #	1
74) N-amyl acetate	12.03	43	2883	0.761	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	74776	25.639	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	74776	67.285	ug/l #	15
95) Naphthalene	15.13	128	281	2.467	ug/l #	69

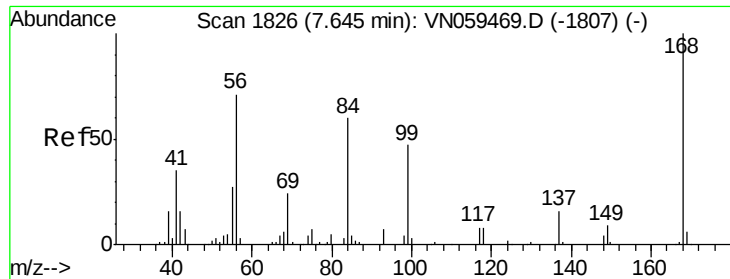
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120619\
Data File : VN059515.D
Acq On : 6 Dec 2019 15:15
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MSVOA_N
ClientSampleId :

Quant Time: Dec 06 22:20:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

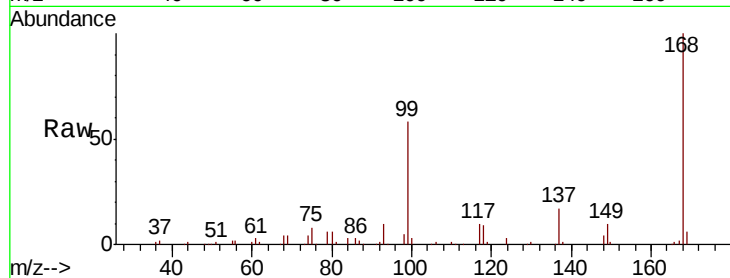
ClientSampleId :

Tot Ion:168 Resp: 225461

Ion Ratio Lower Upper

168 100

99 57.9 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

100000

80000

60000

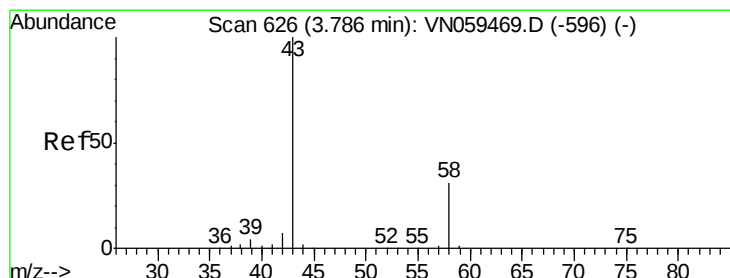
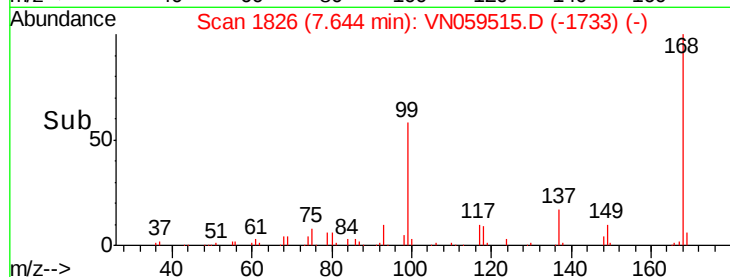
40000

20000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 4.560 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059515.D

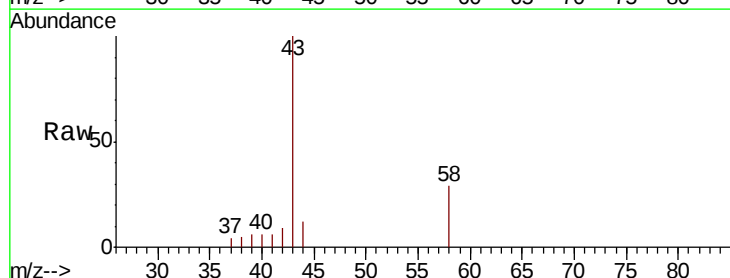
Acq: 6 Dec 2019 15:15

Tgt Ion: 43 Resp: 15125

Ion Ratio Lower Upper

43 100

58 29.1 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

6000

5000

4000

3000

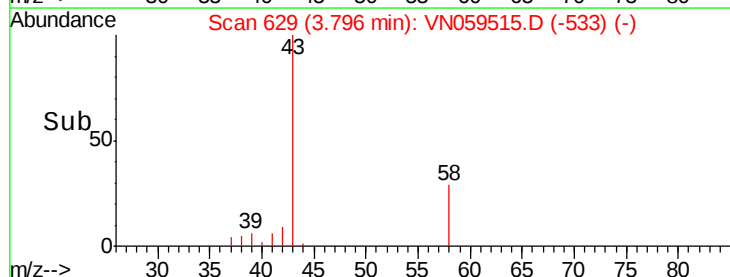
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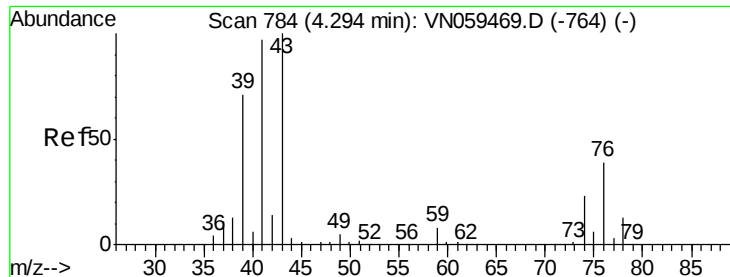
1000

0

Time-->

3.70 3.80 3.90

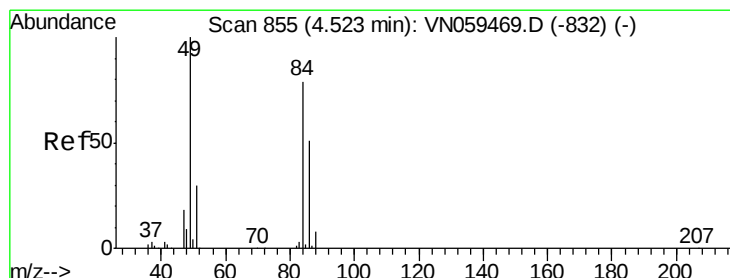
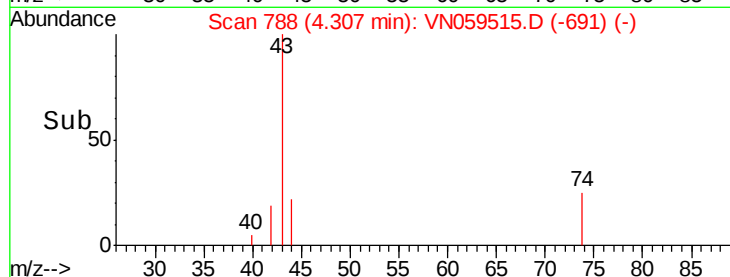
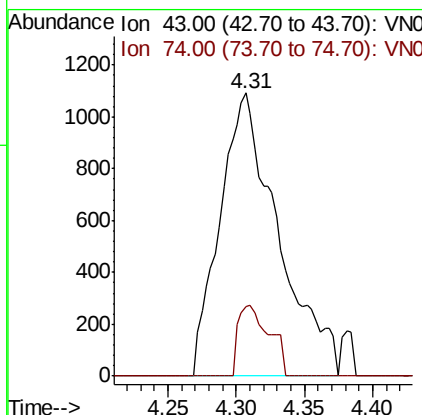
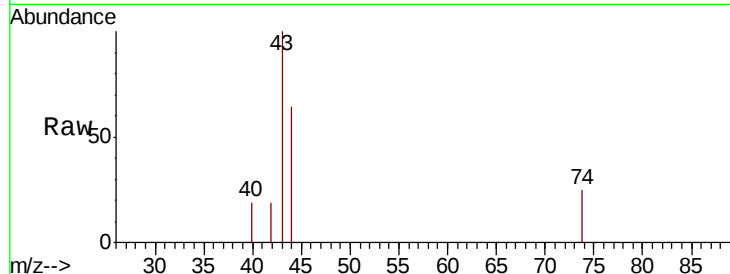




#18
Methyl Acetate
Concen: 0.862 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

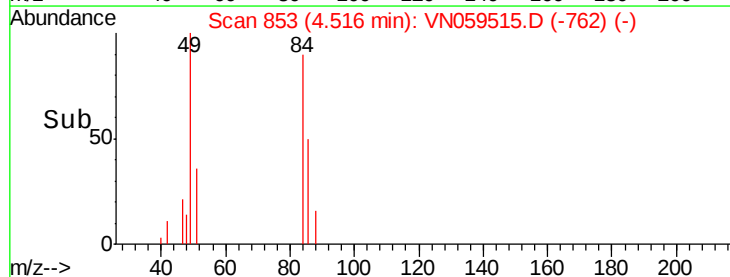
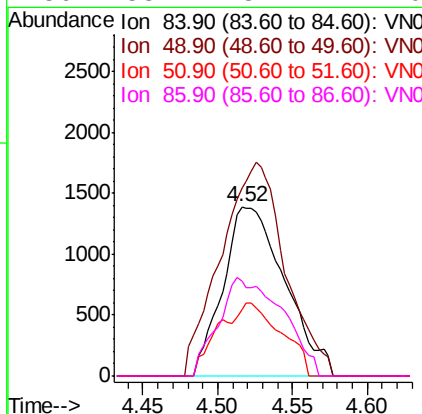
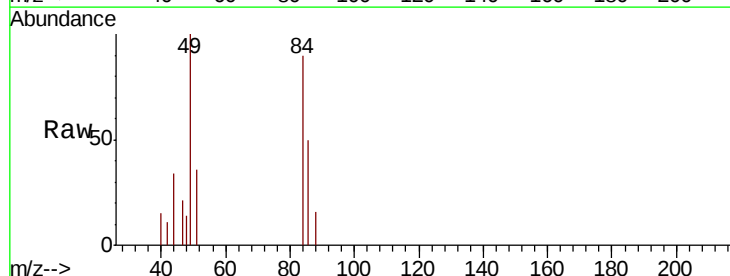
Instrument :
MSVOA_N
ClientSampleId :

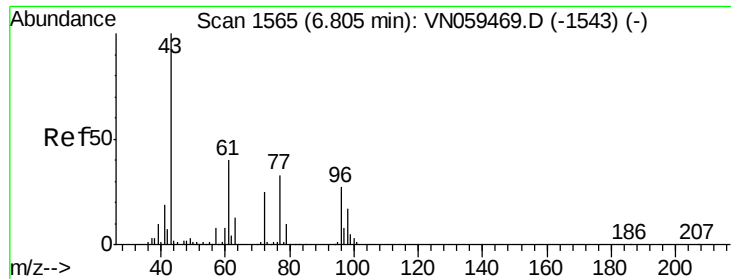
Tot Ion: 43 Resp: 3250
Ion Ratio Lower Upper
43 100
74 13.3 18.3 27.5#



#20
Methylene Chloride
Concen: 0.322 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Tgt Ion: 84 Resp: 3993
Ion Ratio Lower Upper
84 100
49 111.3 101.1 151.7
51 39.7 30.7 46.1
86 55.7 51.4 77.0

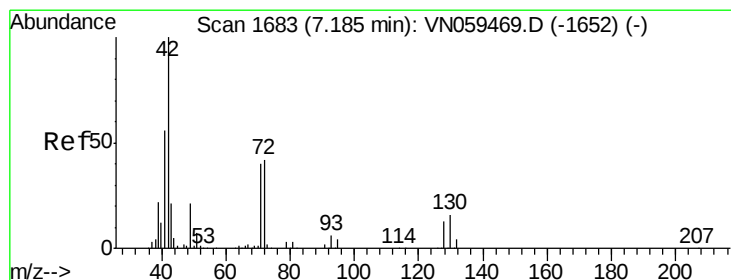
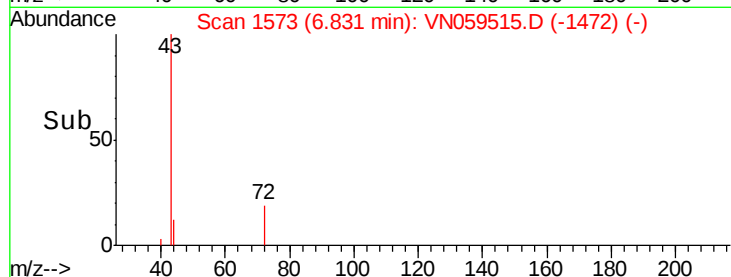
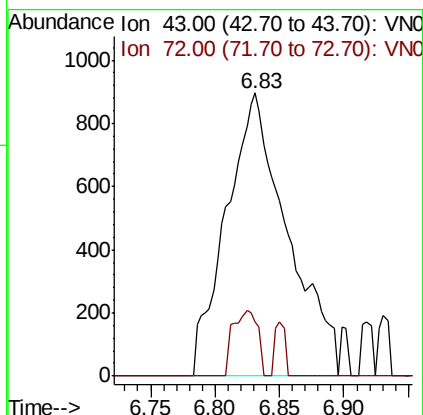
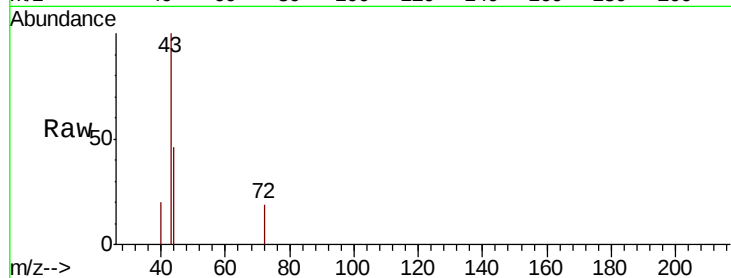




#25
2-Butanone
Concen: 1.391 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.03 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

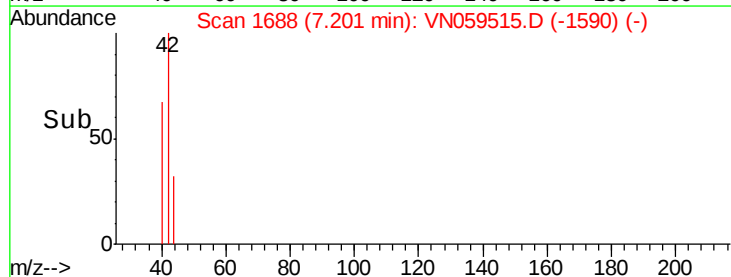
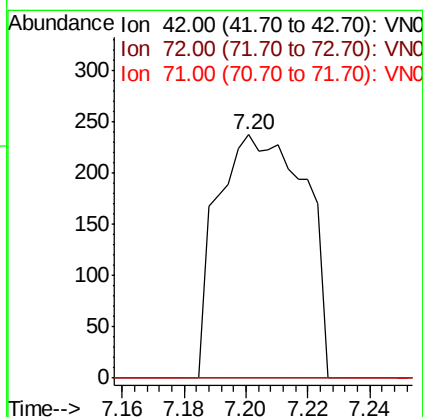
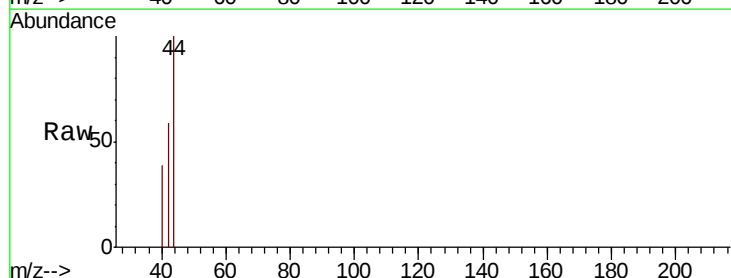
Instrument :
MSVOA_N
ClientSampled :

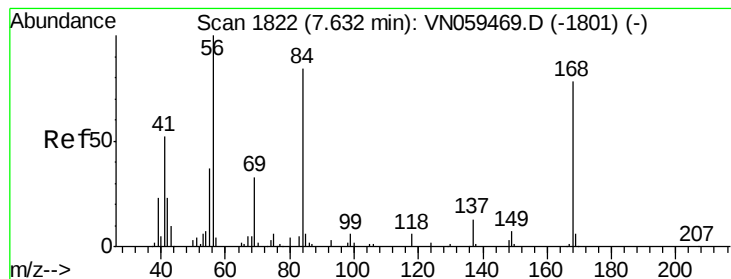
Tot Ion: 43 Resp: 2962
Ion Ratio Lower Upper
43 100
72 19.1 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.351 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.02 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Tgt Ion: 42 Resp: 470
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.0 48.0#





#31

Cyclohexane

Concen: 1.103 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :
MSVOA_N
ClientSampled :

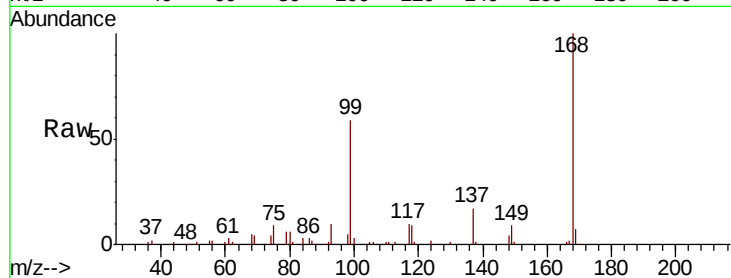
Tot Ion: 56 Resp: 5203

Ion Ratio Lower Upper

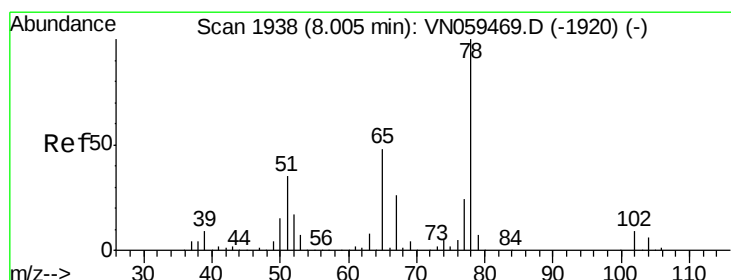
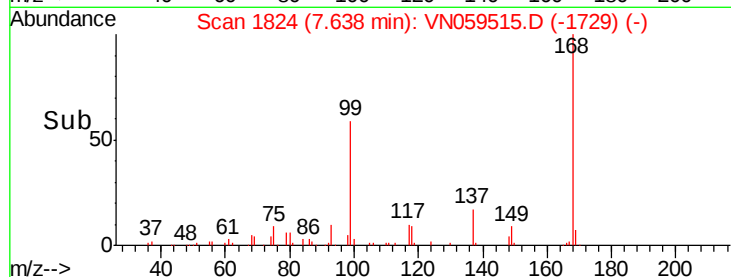
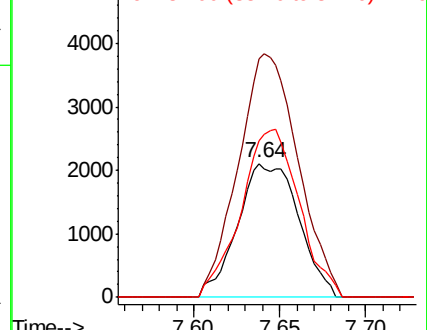
56 100

69 178.2 26.2 39.4#

84 116.8 66.8 100.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 57.779 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059515.D

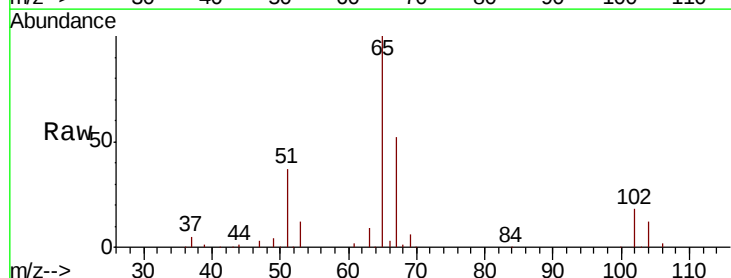
Acq: 6 Dec 2019 15:15

Tgt Ion: 65 Resp: 161830

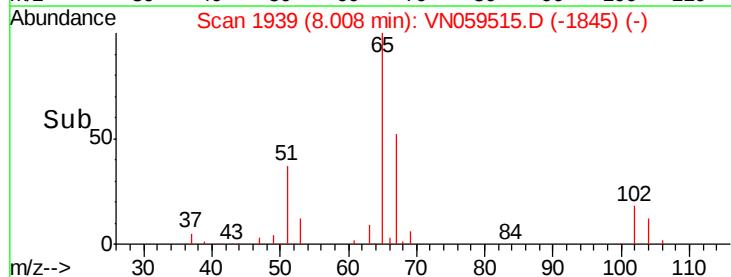
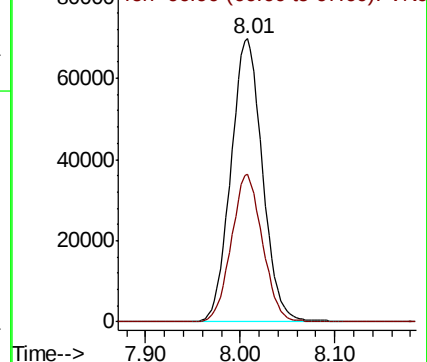
Ion Ratio Lower Upper

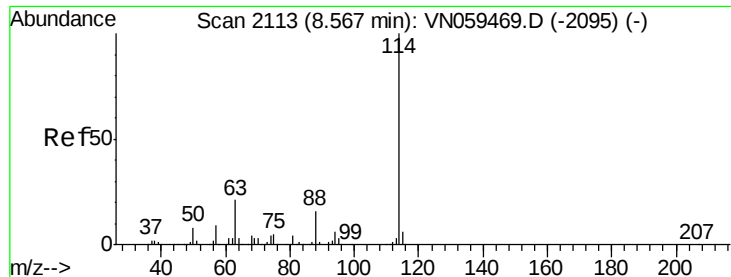
65 100

67 51.2 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

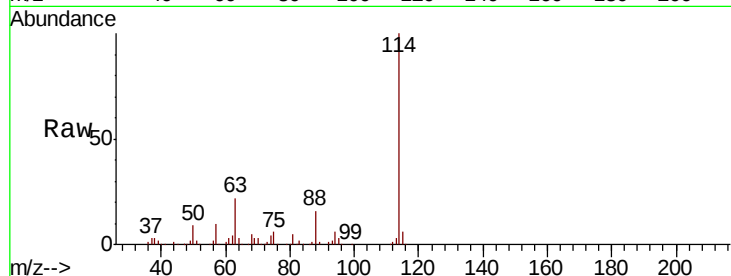




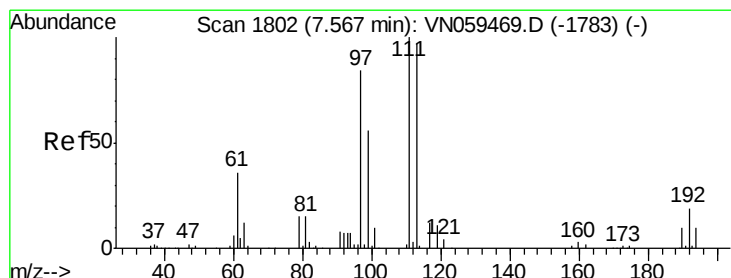
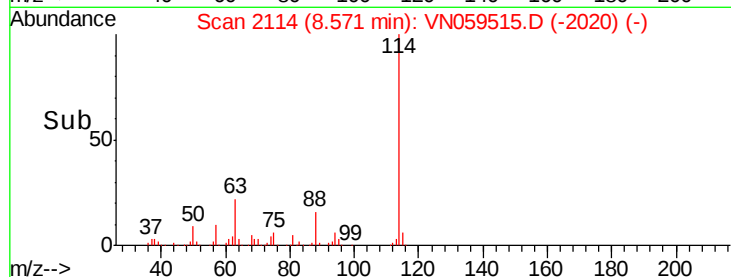
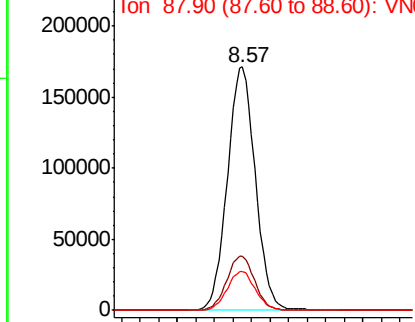
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	42.4
88	16.1	0.0	32.8

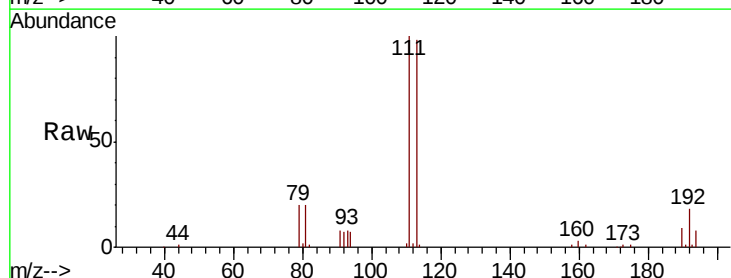


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

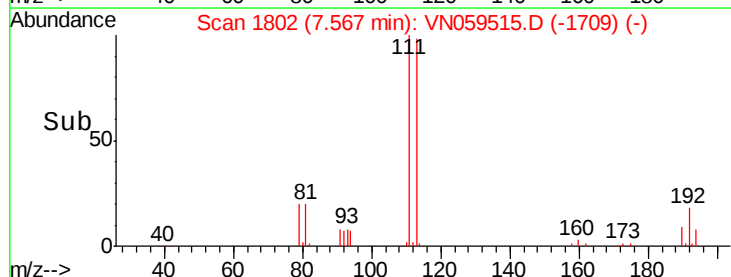
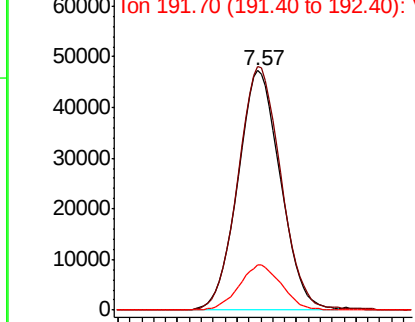


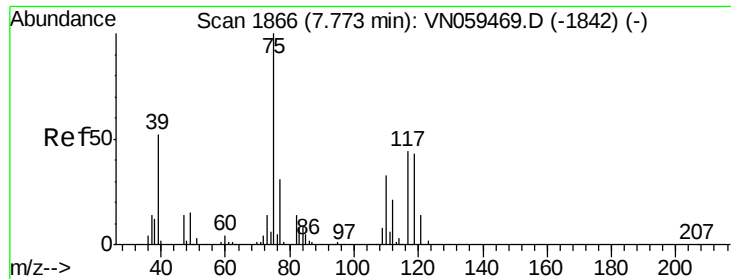
#35
Dibromofluoromethane
Concen: 52.538 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.5	123.7
192	18.7	16.1	24.1



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: 5.124 ug/l

RT: 7.64 min Scan# 1825

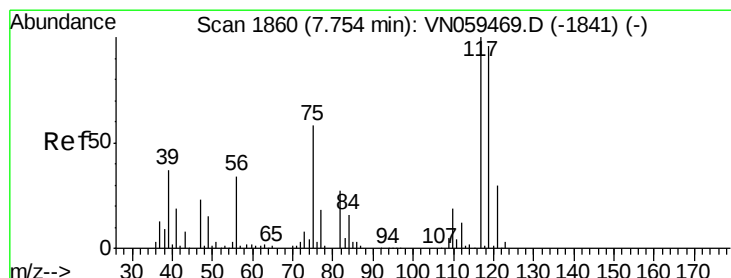
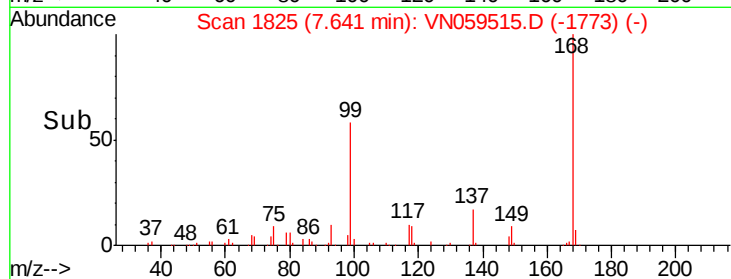
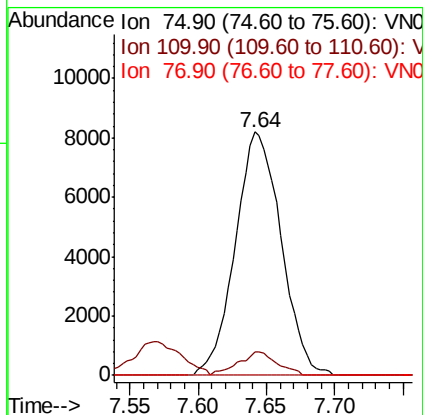
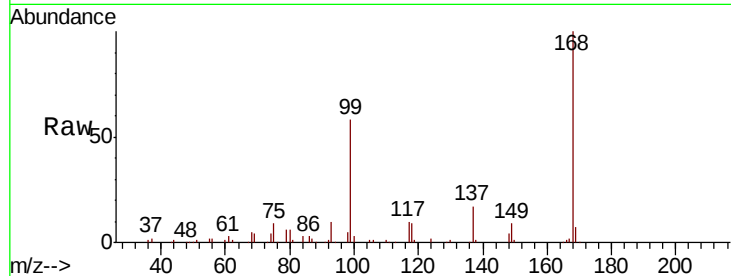
Delta R.T. -0.13 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	75	Resp:	19101
Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.9	50.7#
77	0.0	25.1	37.7#



#38

Carbon Tetrachloride

Concen: 6.358 ug/l

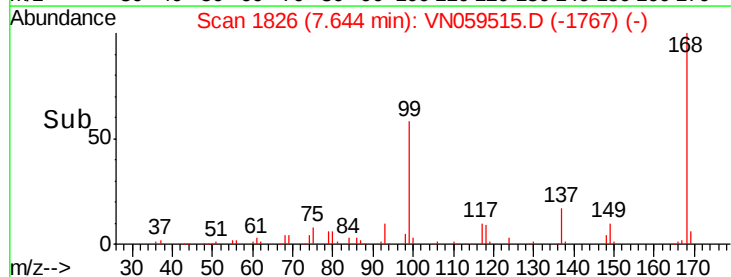
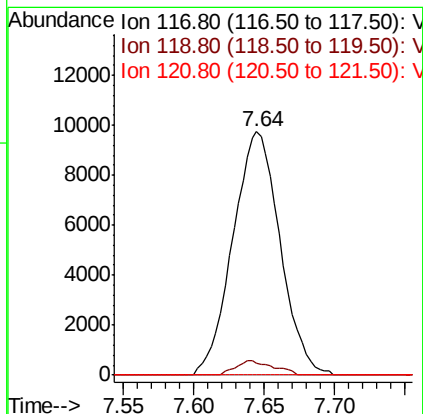
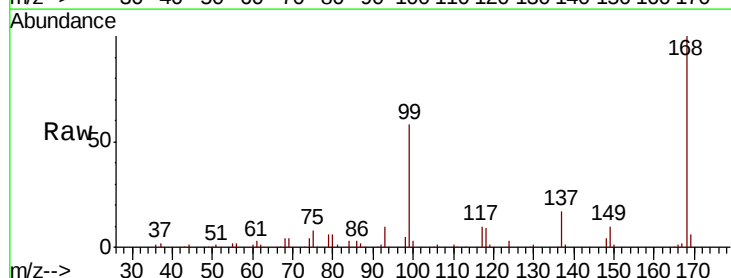
RT: 7.64 min Scan# 1826

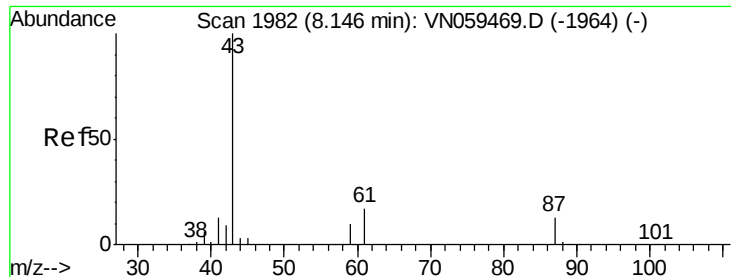
Delta R.T. -0.11 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Tgt Ion:	117	Resp:	22793
Ion	Ratio	Lower	Upper
117	100		
119	5.0	76.6	114.8#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 9.206 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

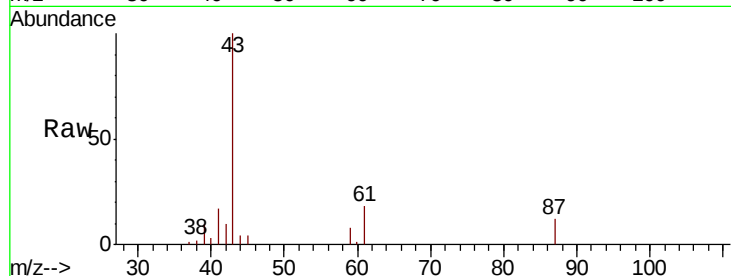
Tot Ion: 43 Resp: 57006

Ion Ratio Lower Upper

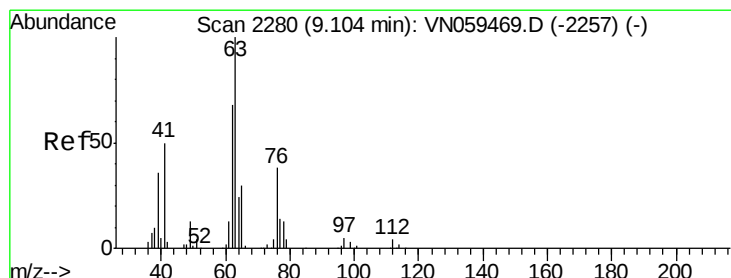
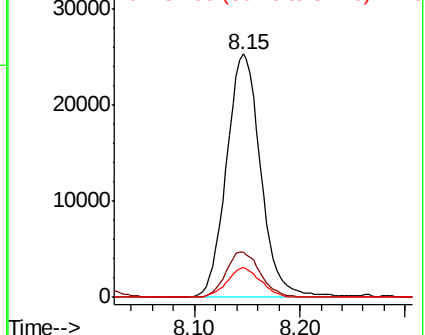
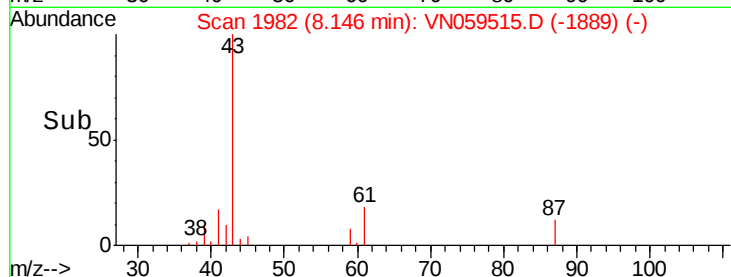
43 100

61 18.5 21.0 31.6#

87 11.9 10.4 15.6



Abundance Ion 43.00 (42.70 to 43.70): VN059515.D (-1889) (-)



#45

1,2-Dichloropropane

Concen: 0.317 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN059515.D

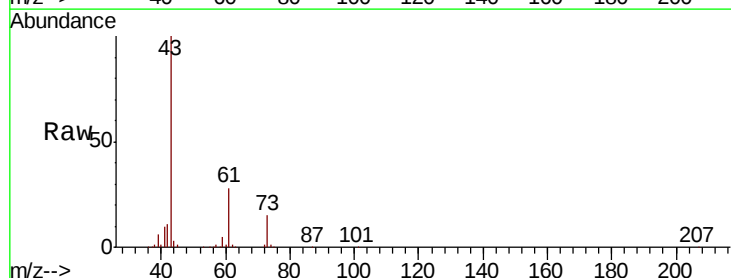
Acq: 6 Dec 2019 15:15

Tgt Ion: 63 Resp: 925

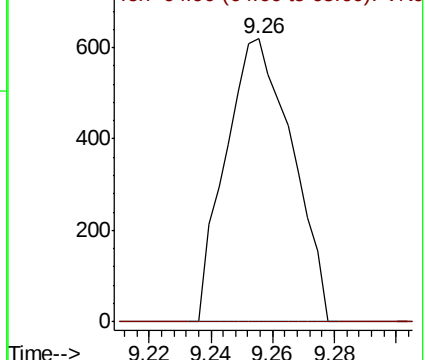
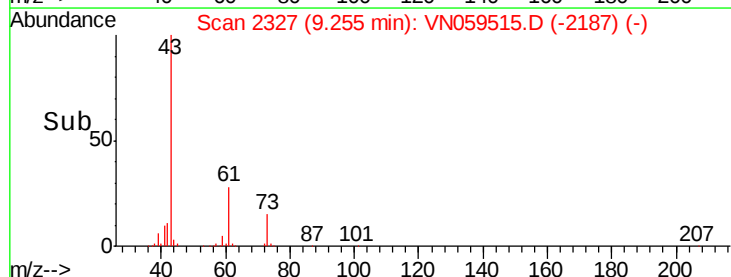
Ion Ratio Lower Upper

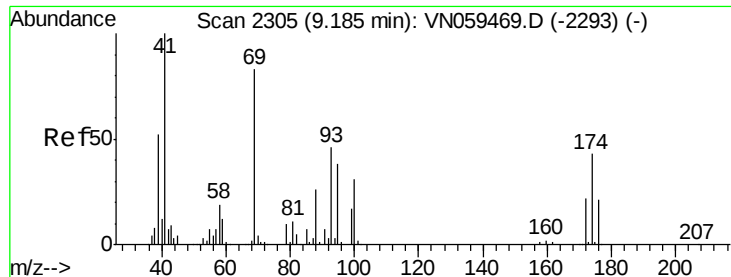
63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN059515.D (-2187) (-)

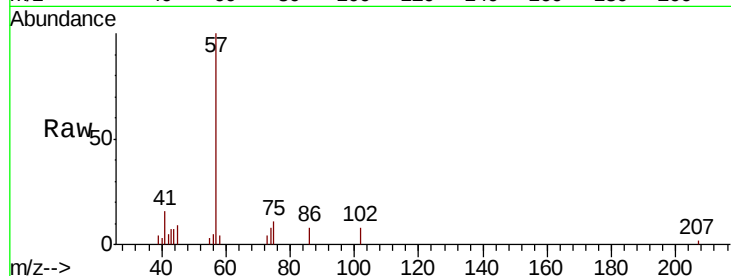




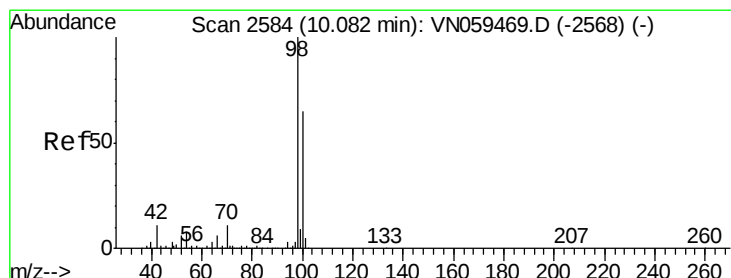
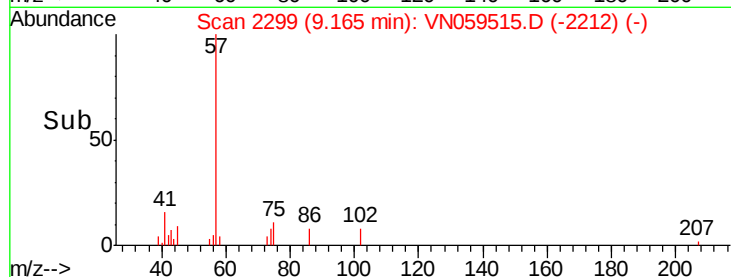
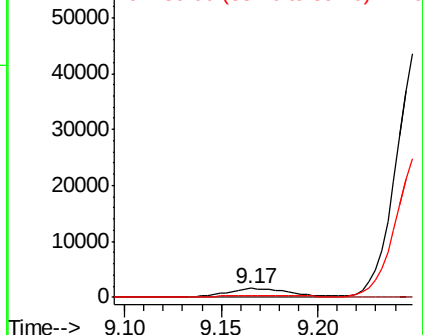
#48
Methvl methacrylate
Concen: 1.282 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3582
Ion Ratio Lower Upper
41 100
69 0.0 68.6 103.0#
39 0.0 43.2 64.8#

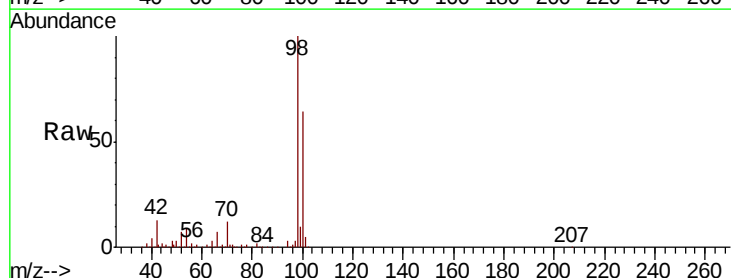


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

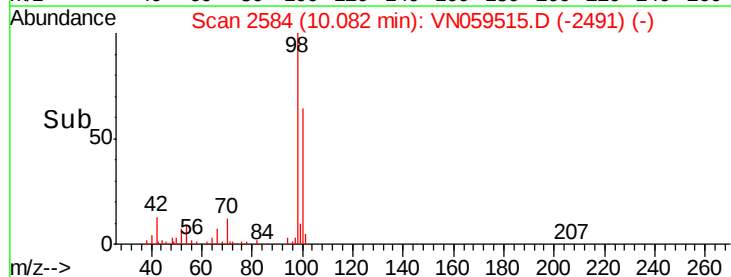
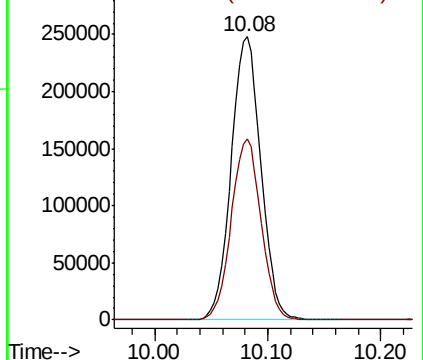


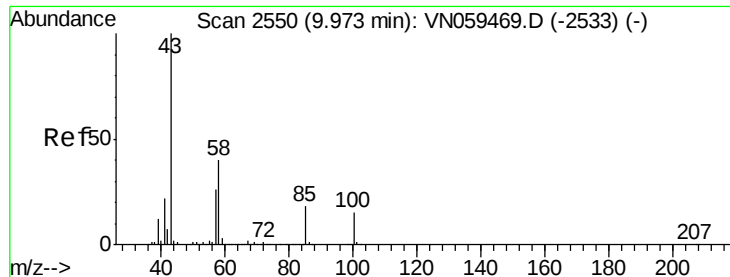
#50
Toluene-d8
Concen: 51.643 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Tgt Ion: 98 Resp: 454253
Ion Ratio Lower Upper
98 100
100 64.0 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: 1.389 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

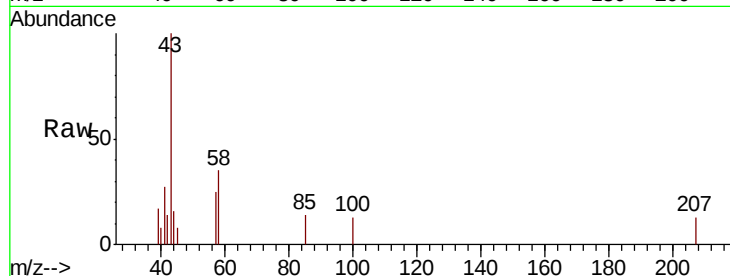
ClientSampled :

Tot Ion: 43 Resp: 5106

Ion Ratio Lower Upper

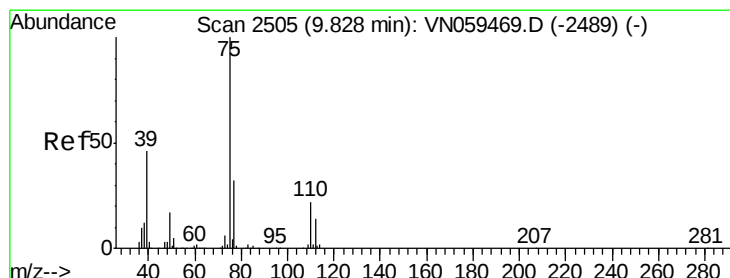
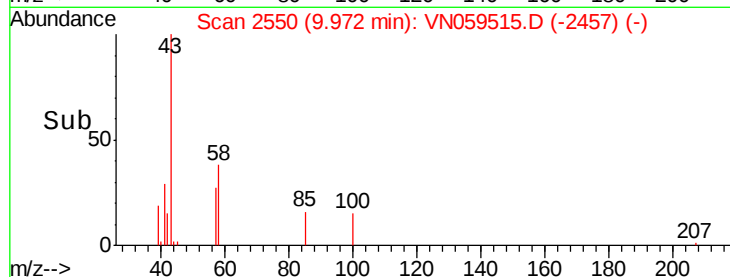
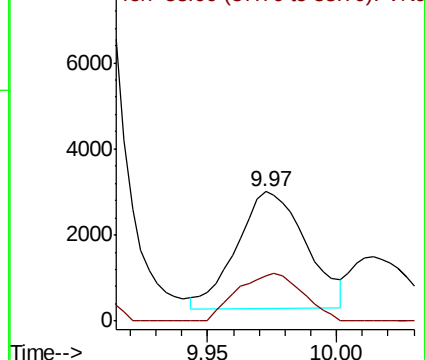
43 100

58 38.9 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: 4.892 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

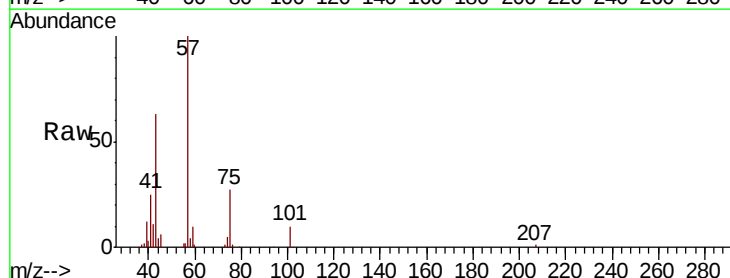
Tgt Ion: 75 Resp: 22213

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

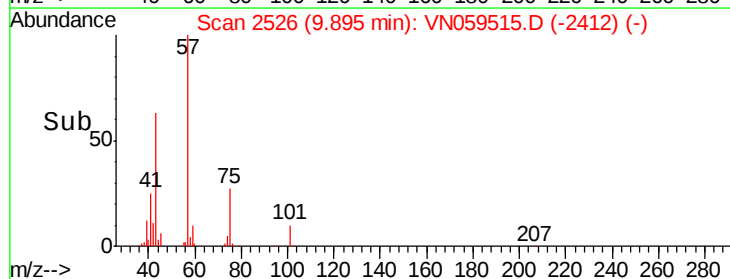
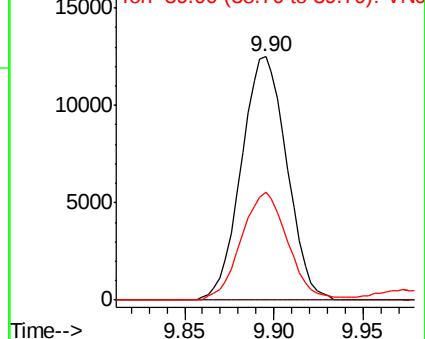
39 44.1 36.6 54.8

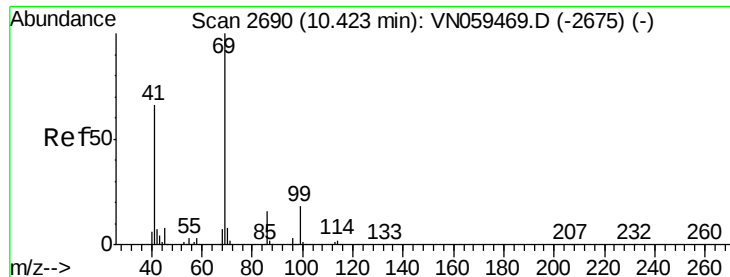


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.661 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

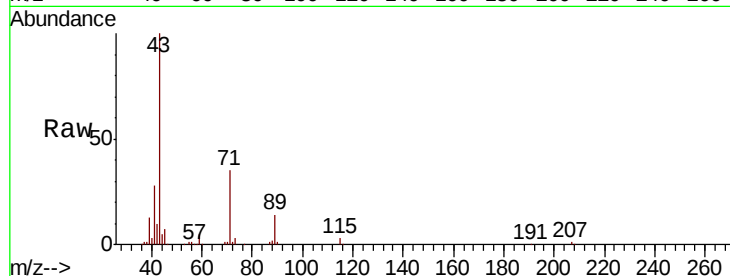
Tot Ion: 69 Resp: 909

Ion Ratio Lower Upper

69 100

41 5586.9 52.7 79.1#

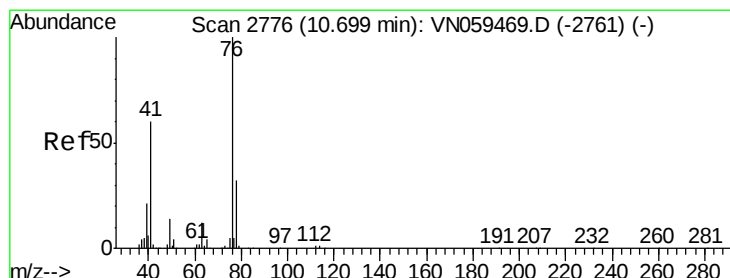
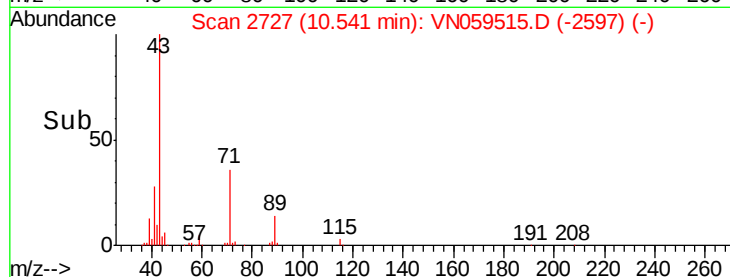
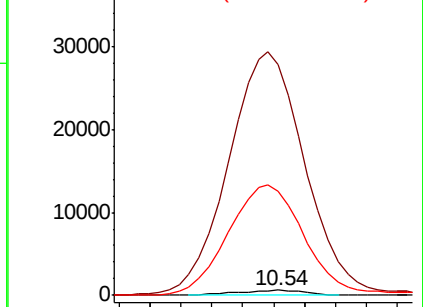
39 2533.8 25.0 37.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.744 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN059515.D

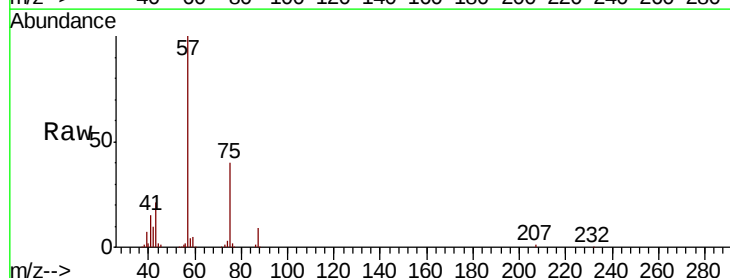
Acq: 6 Dec 2019 15:15

Tgt Ion: 76 Resp: 3347

Ion Ratio Lower Upper

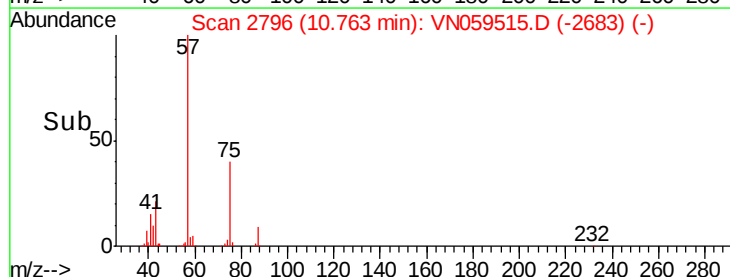
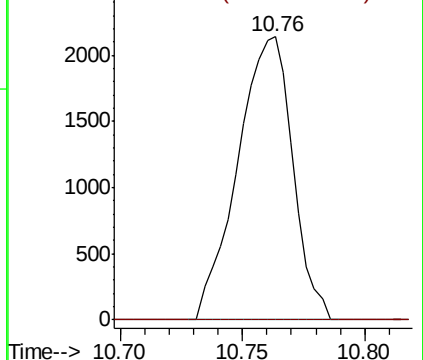
76 100

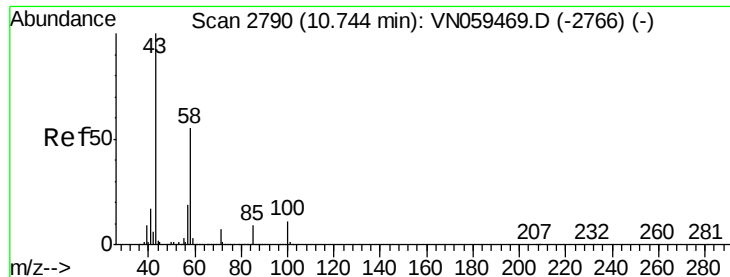
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

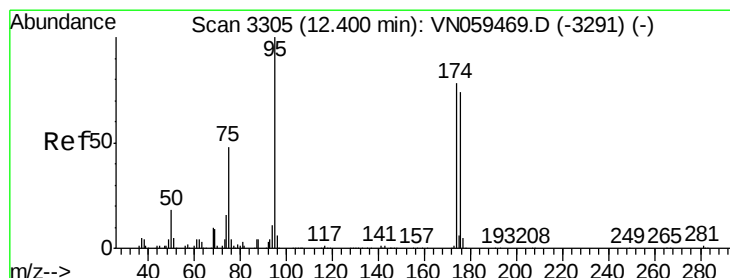
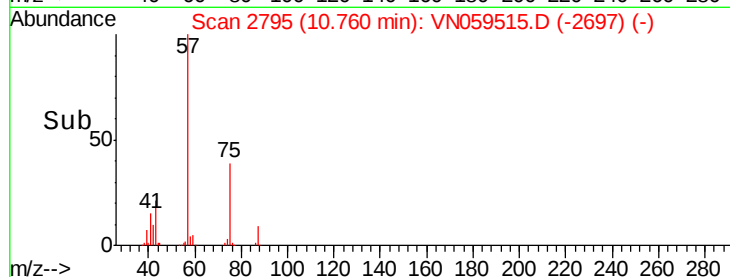
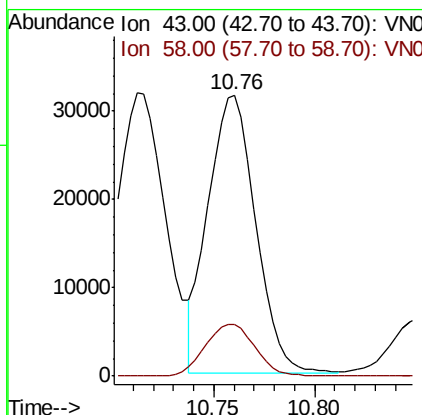
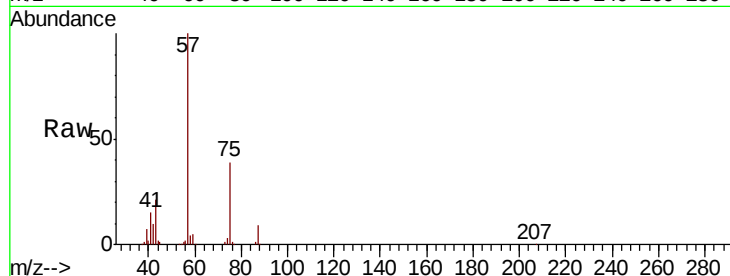




#59
2-Hexanone
Concen: 18.696 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

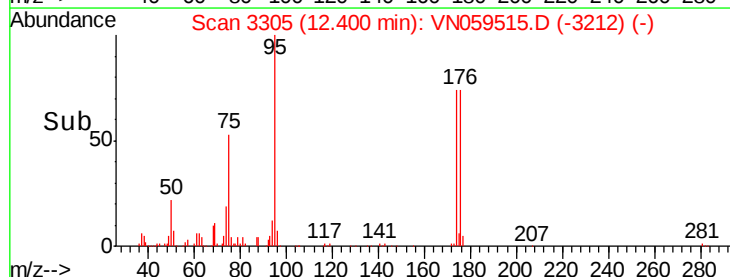
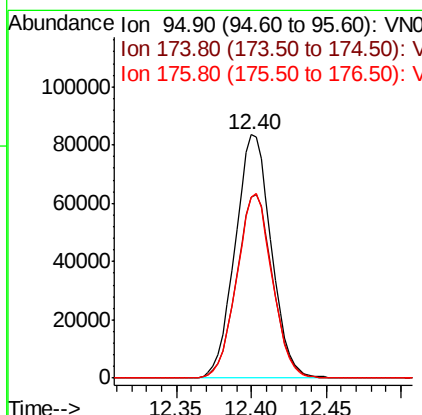
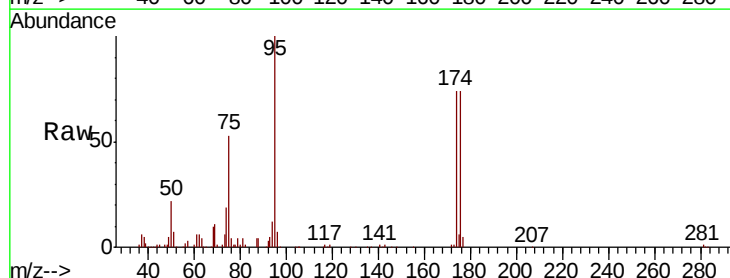
Instrument :
MSVOA_N
ClientSampleId :

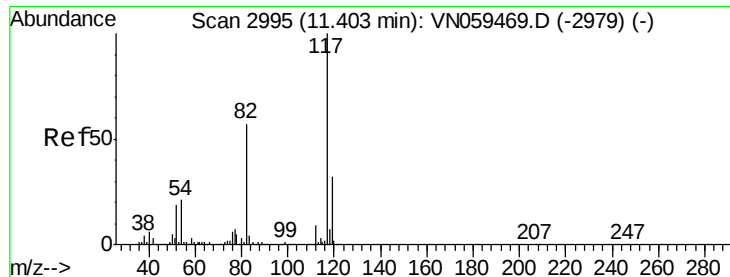
Tot Ion: 43 Resp: 51718
Ion Ratio Lower Upper
43 100
58 19.5 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 45.744 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059515.D
Acq: 6 Dec 2019 15:15

Tgt Ion: 95 Resp: 140517
Ion Ratio Lower Upper
95 100
174 75.2 0.0 157.0
176 74.2 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: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

ClientSampled :

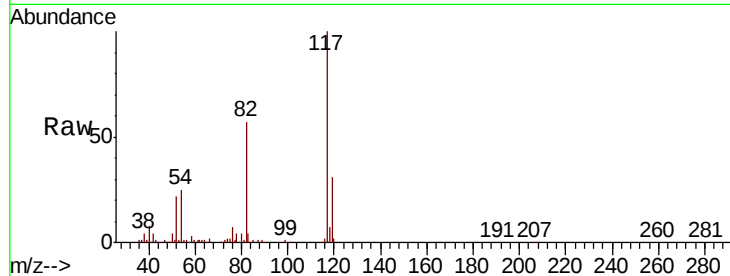
Tot Ion:117 Resp: 325762

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.8

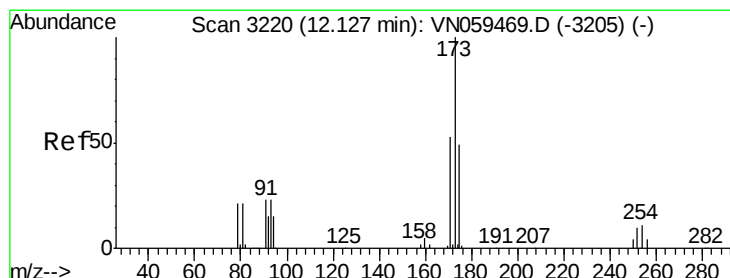
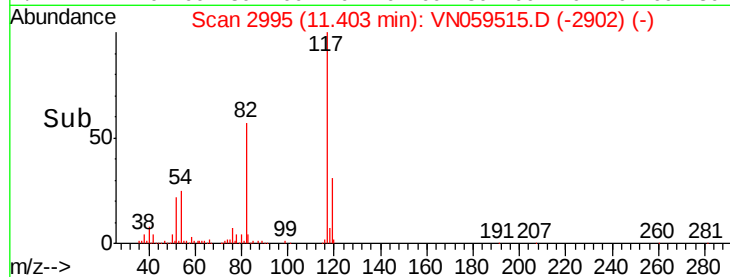
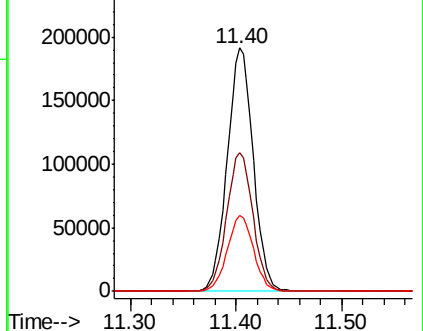
119 31.2 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.455 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

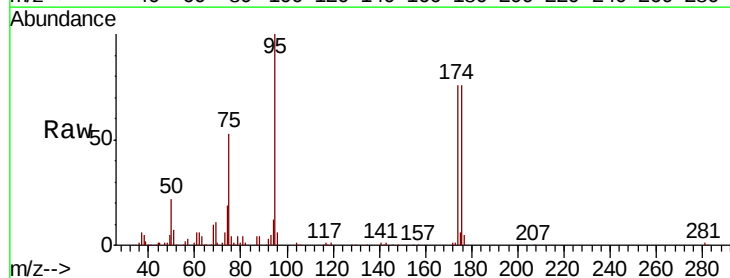
Tgt Ion:173 Resp: 908

Ion Ratio Lower Upper

173 100

175 764.0 24.3 73.0#

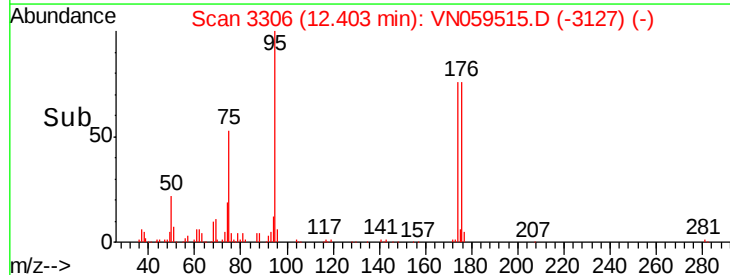
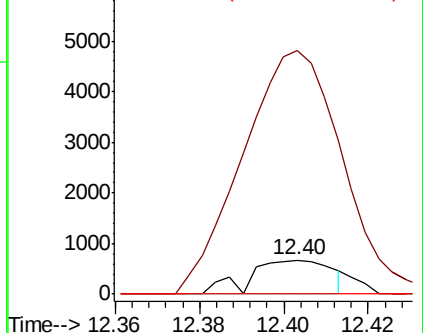
254 0.0 0.0 0.0

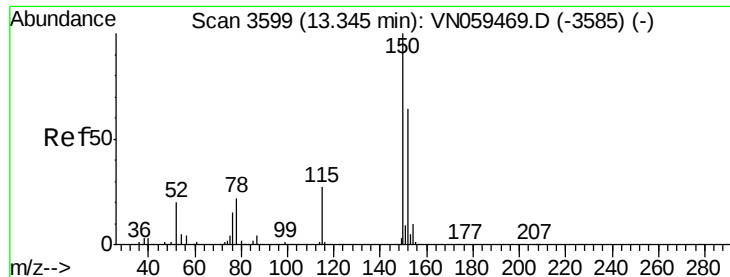


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :

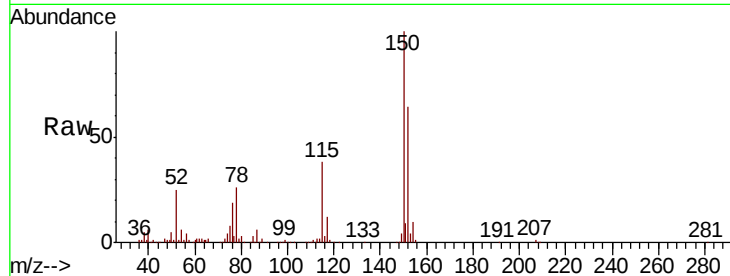
Tot Ion:152 Resp: 117299

Ion Ratio Lower Upper

152 100

115 59.9 29.2 87.6

150 155.7 0.0 352.8

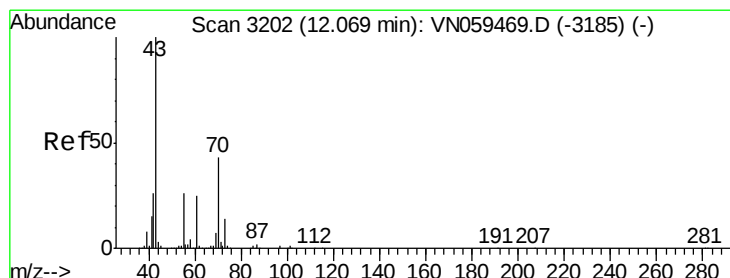
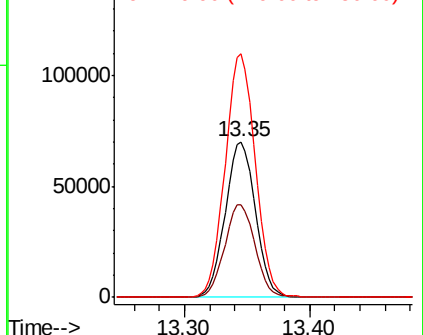
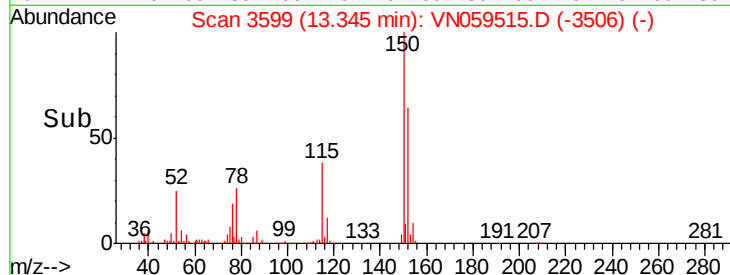


Abundance

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: 0.761 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Tgt Ion: 43 Resp: 2883

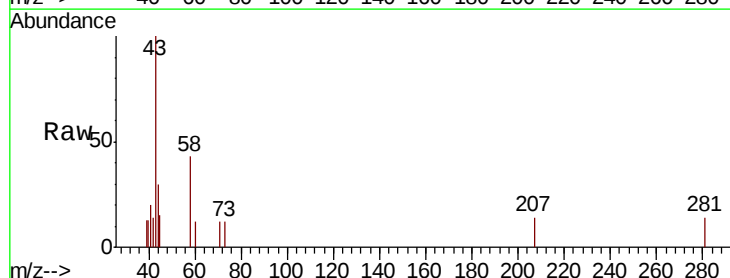
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 2.3 20.6 31.0#

61 0.0 19.3 28.9#



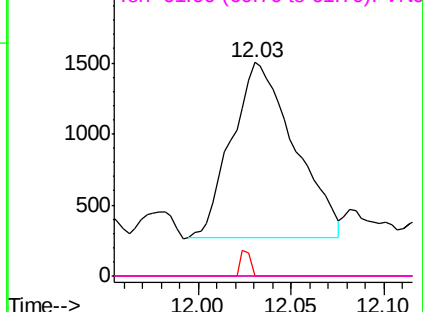
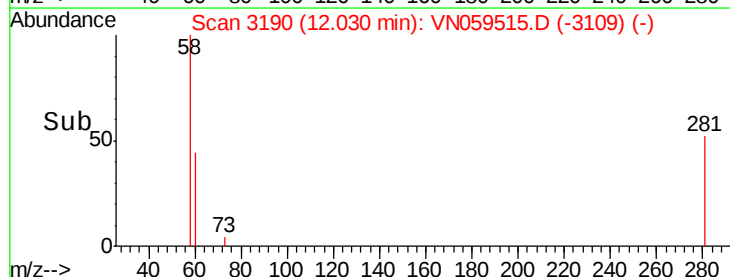
Abundance

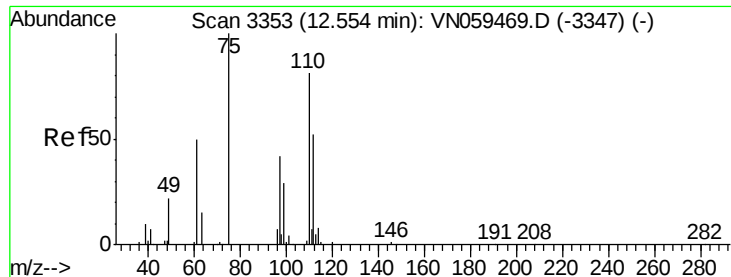
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.639 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

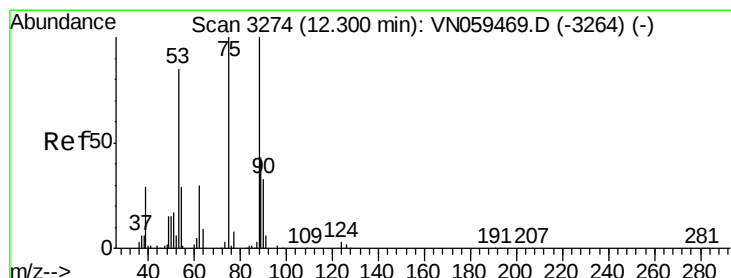
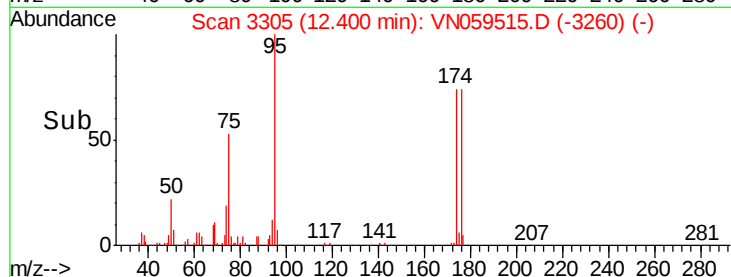
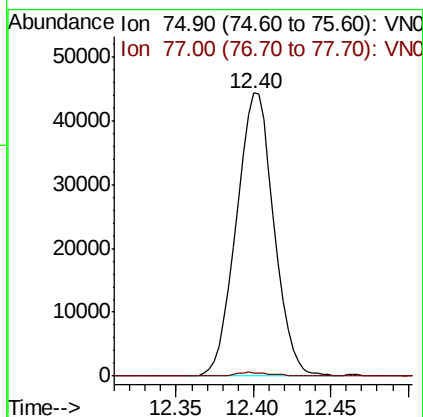
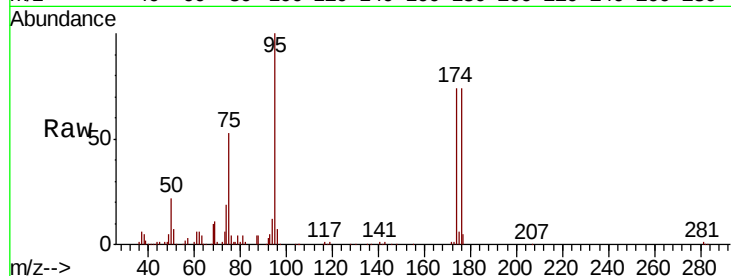
ClientSampleId :

Tot Ion: 75 Resp: 74776

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.285 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

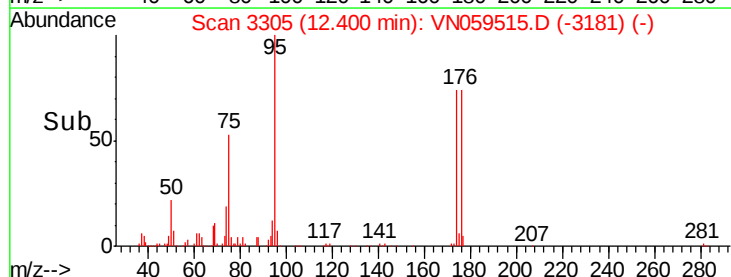
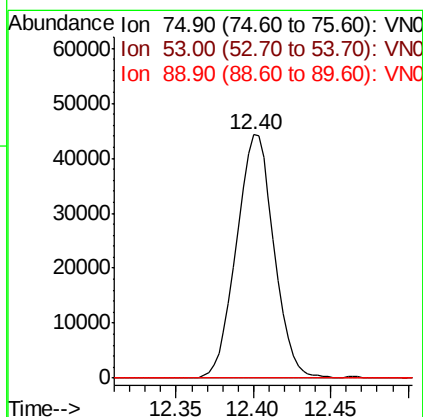
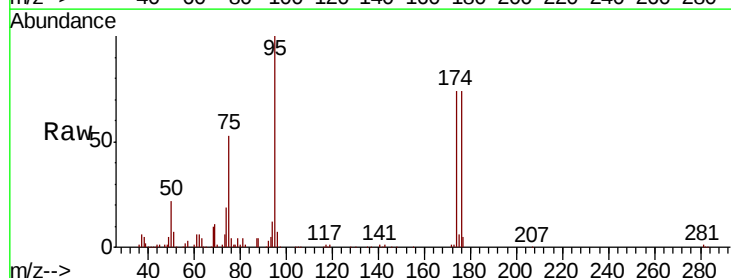
Tgt Ion: 75 Resp: 74776

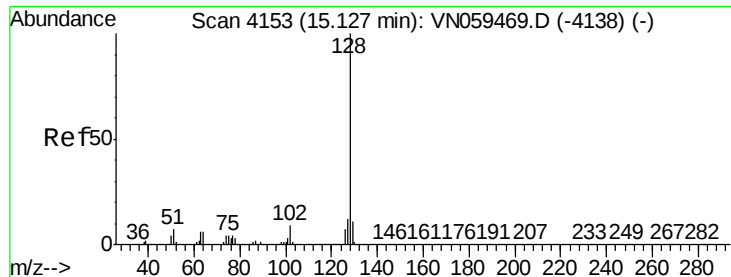
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#





#95

Naphthalene

Concen: 2.467 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.01 min

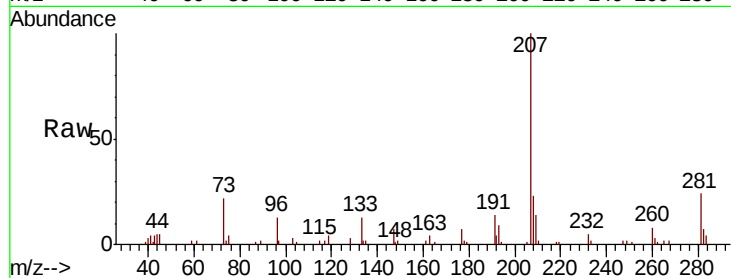
Lab File: VN059515.D

Acq: 6 Dec 2019 15:15

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	281
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.8	13.2#

