

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103119\
 Data File : VN059041.D
 Acq On : 31 Oct 2019 15:59
 Operator : JC/SP
 Sample : K5626-02DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:12:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	398916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	623436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	553577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209052	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	285655	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	7.57	113	211935	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
50) Toluene-d8	10.08	98	804069	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.41	95	254538	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

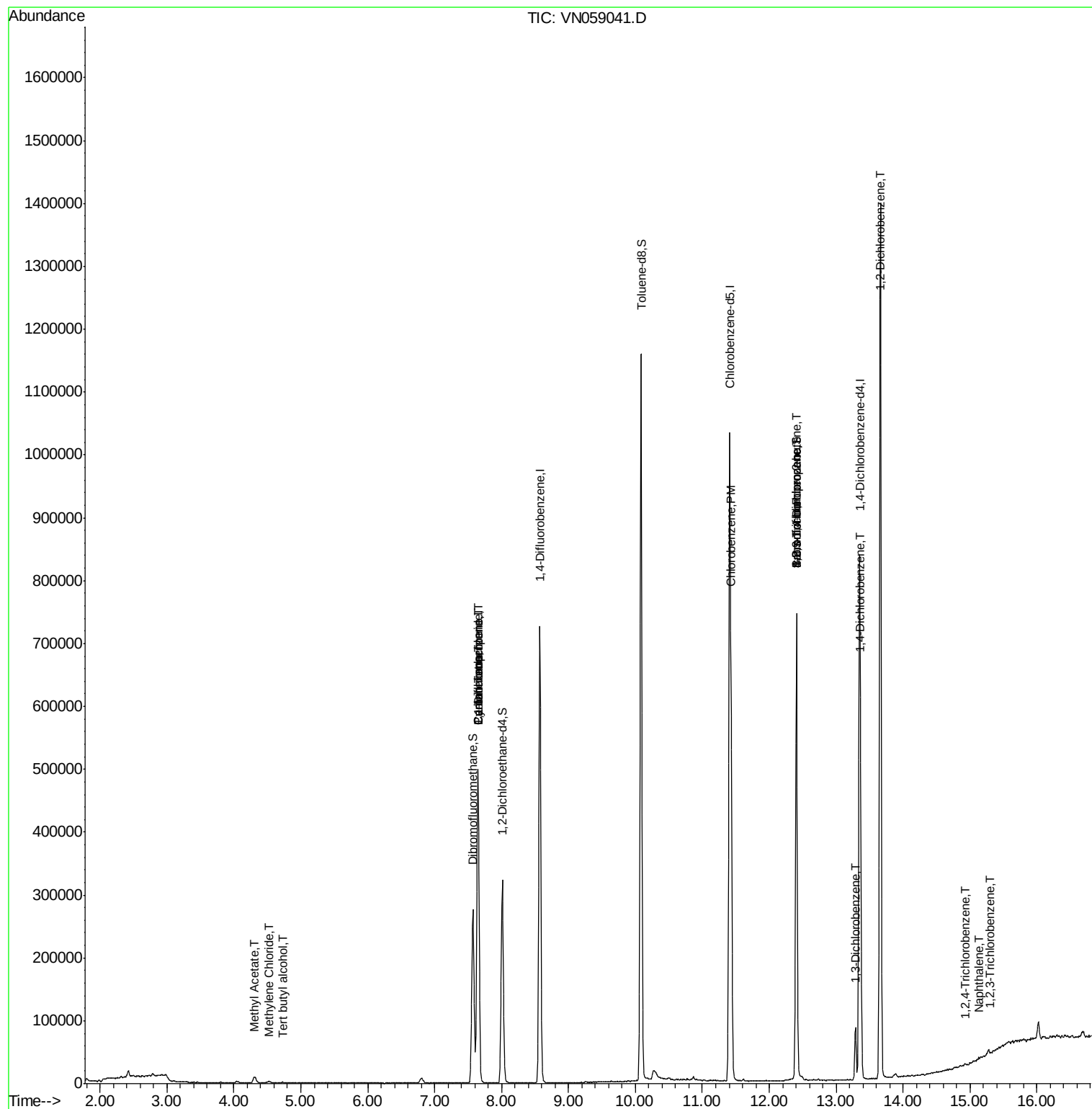
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	514	0.529	ug/l #	72
18) Methyl Acetate	4.31	43	20851	3.172	ug/l #	77
20) Methylene Chloride	4.53	84	1734	0.351	ug/l #	80
31) Cyclohexane	7.65	56	8926	1.062	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32369	5.071	ug/l #	51
38) Carbon Tetrachloride	7.65	117	39773	6.049	ug/l #	18
65) Chlorobenzene	11.43	112	268665	23.839	ug/l	100
71) Bromoform	12.40	173	1388	0.421	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	131462	27.133	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	131462	70.685	ug/l #	10
87) 1,3-Dichlorobenzene	13.29	146	34163	5.074	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	88305	13.099	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	575638	86.980	ug/l	100
93) 1,2,4-Trichlorobenzene	14.92	180	836	2.711	ug/l	83
95) Naphthalene	15.14	128	536	2.268	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	215	2.445	ug/l #	45

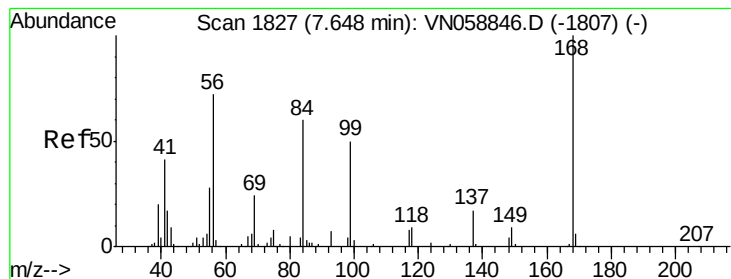
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

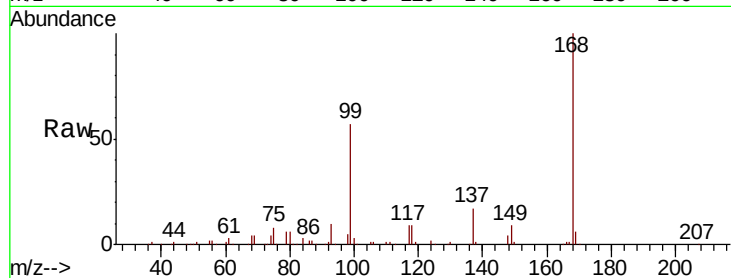
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 398916

Ion Ratio Lower Upper

168 100

99 57.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

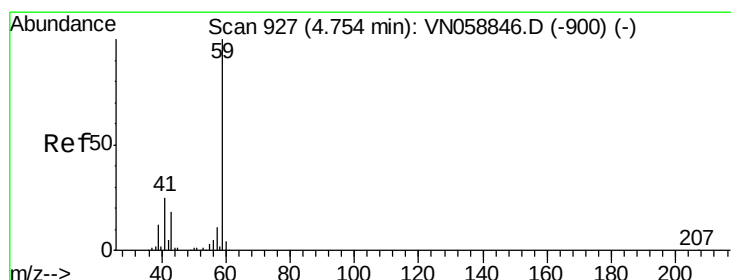
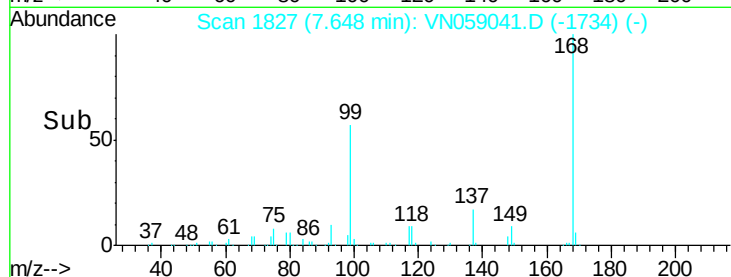
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.529 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.02 min

Lab File: VN059041.D

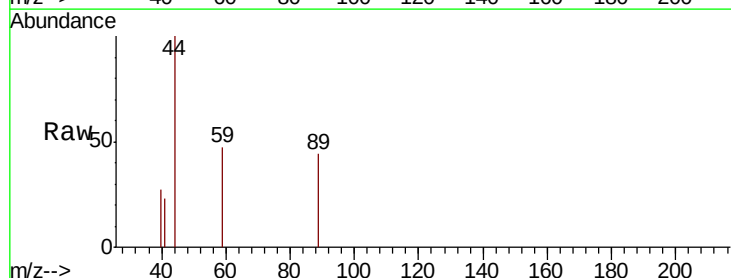
Acq: 31 Oct 2019 15:59

Tgt Ion: 59 Resp: 514

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

400

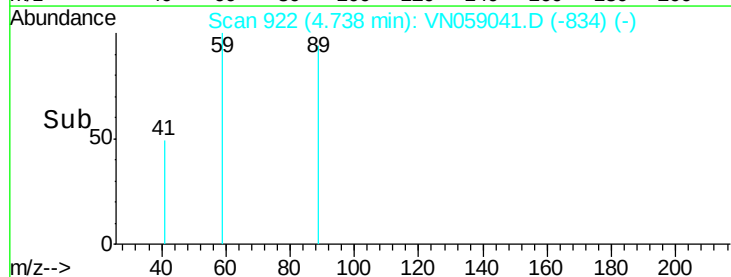
300

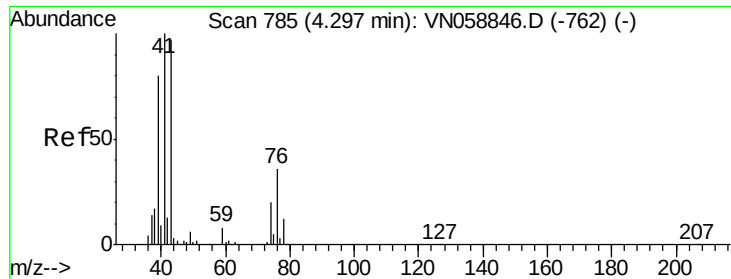
200

100

0

Time-->

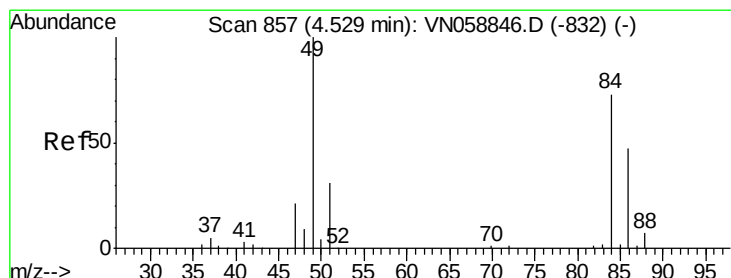
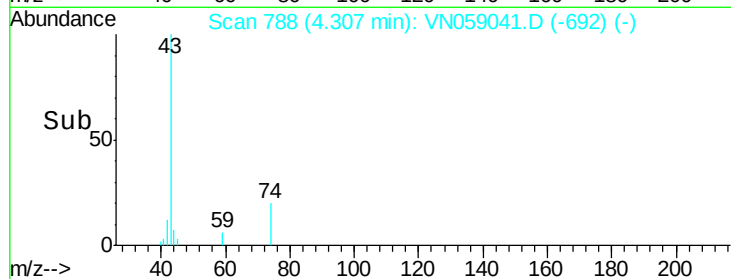
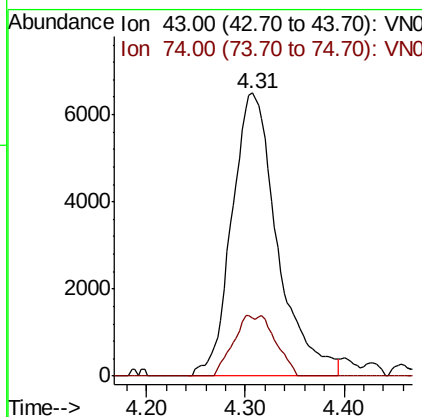
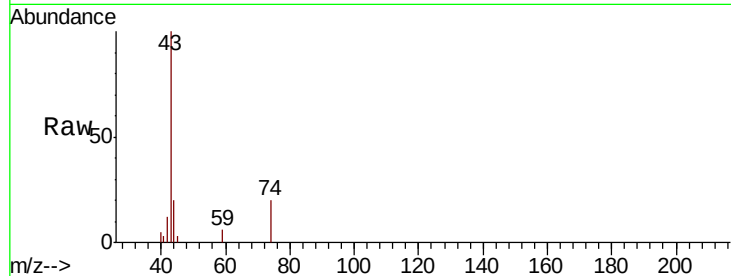




#18
Methyl Acetate
Concen: 3.172 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059041.D
Acq: 31 Oct 2019 15:59

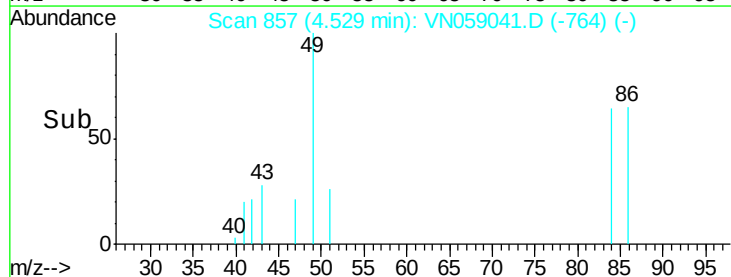
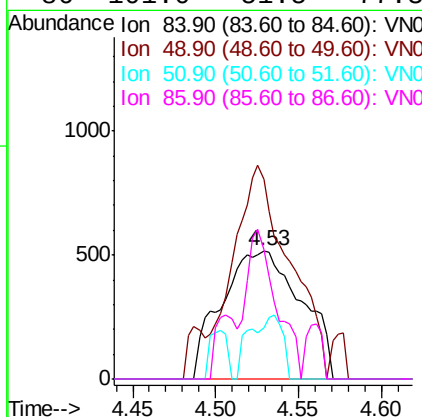
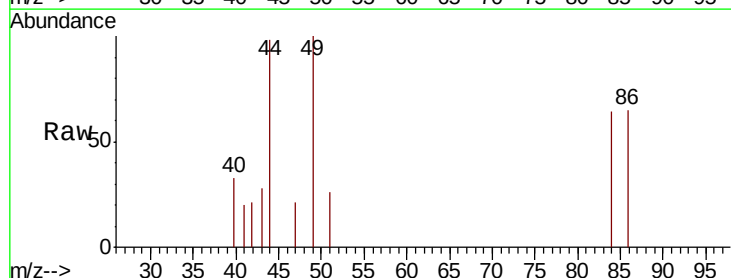
Instrument :
MSVOA_N
ClientSampleId :

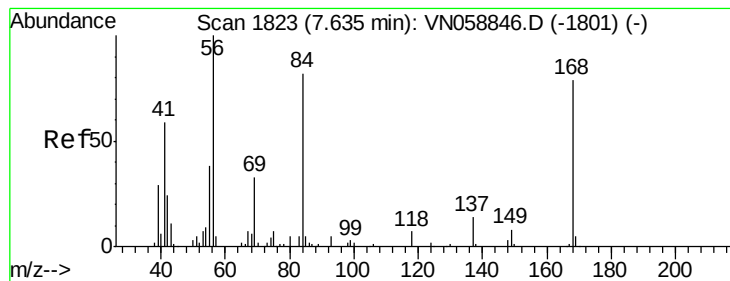
Tot Ion: 43 Resp: 20851
Ion Ratio Lower Upper
43 100
74 10.6 17.1 25.7#



#20
Methylene Chloride
Concen: 0.351 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN059041.D
Acq: 31 Oct 2019 15:59

Tgt Ion: 84 Resp: 1734
Ion Ratio Lower Upper
84 100
49 121.5 109.6 164.4
51 40.2 33.8 50.6
86 101.0 51.5 77.3#





#31

Cyclohexane

Concen: 1.062 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

Instrument :

MSVOA_N

ClientSampled :

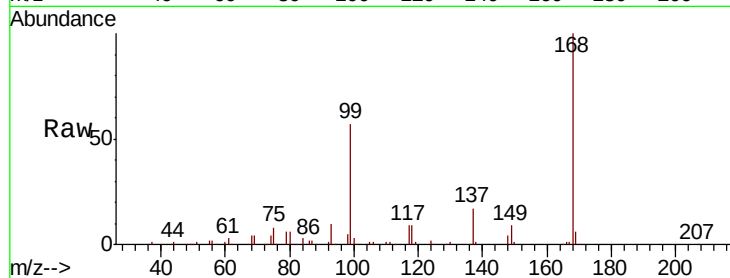
Tot Ion: 56 Resp: 8926

Ion Ratio Lower Upper

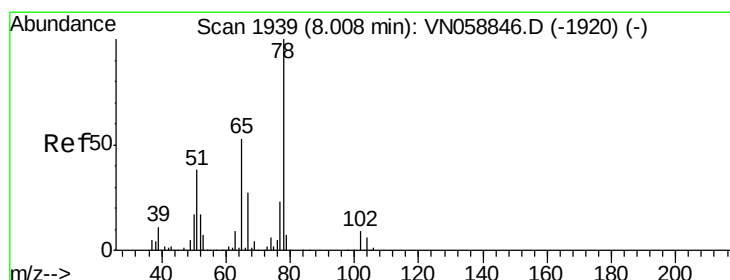
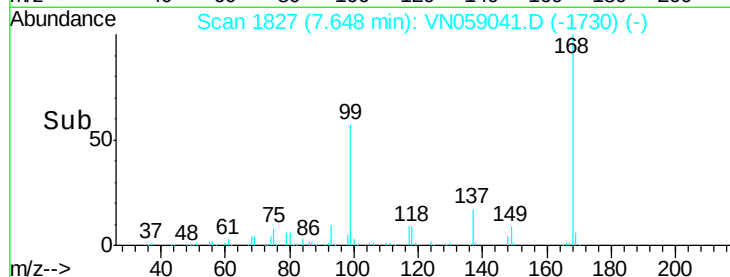
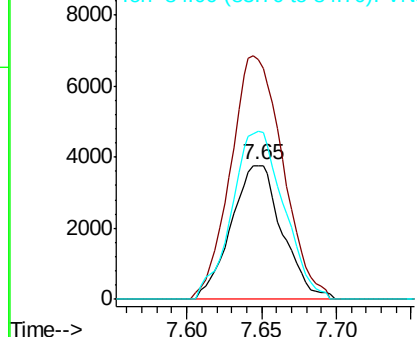
56 100

69 179.8 26.2 39.4#

84 125.9 65.6 98.4#



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: 48.824 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059041.D

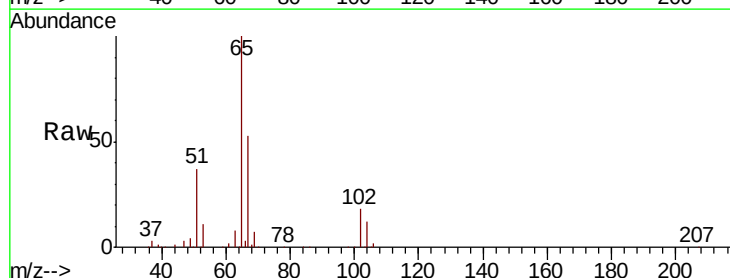
Acq: 31 Oct 2019 15:59

Tgt Ion: 65 Resp: 285655

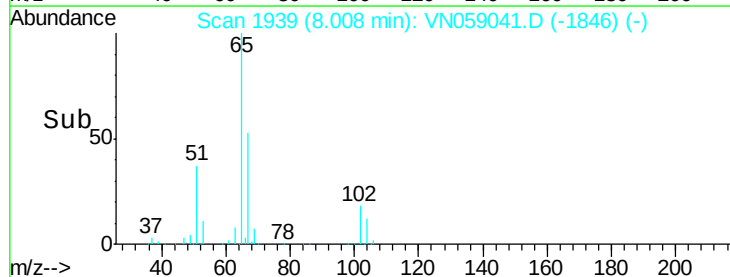
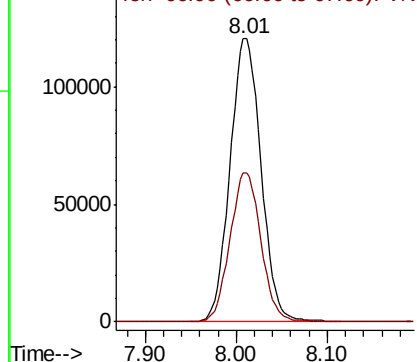
Ion Ratio Lower Upper

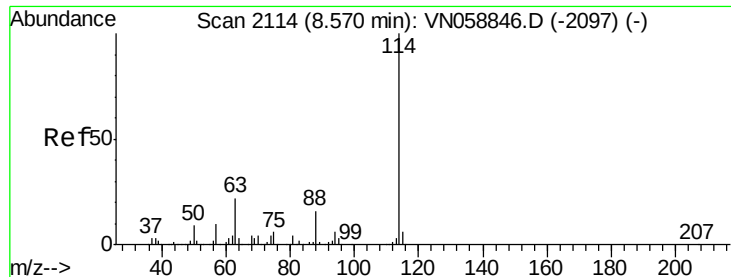
65 100

67 52.6 0.0 103.2



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

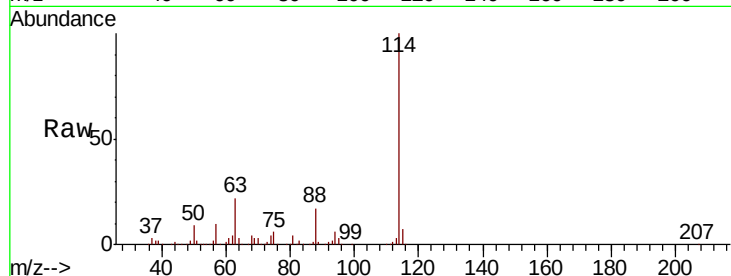




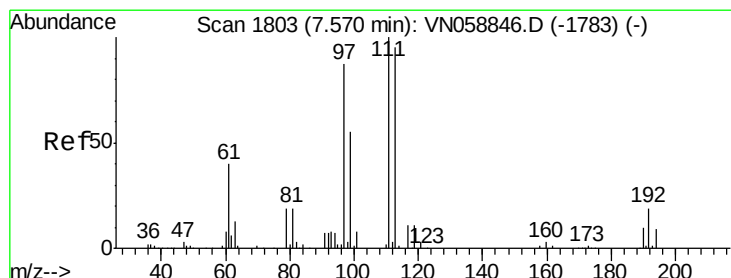
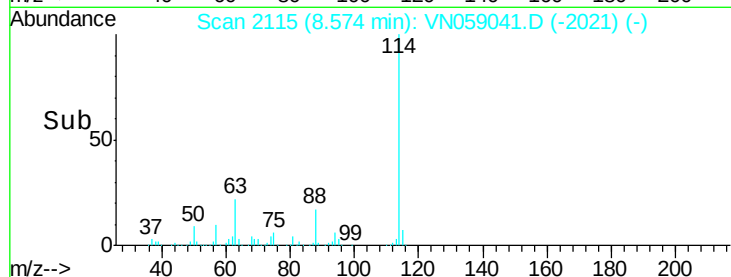
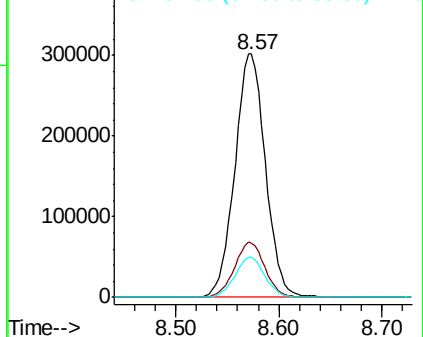
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.4
88	16.6	0.0	31.4

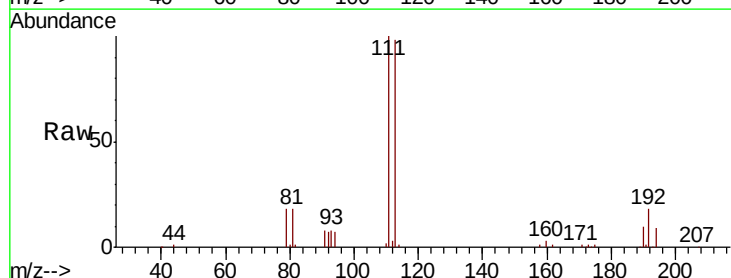


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

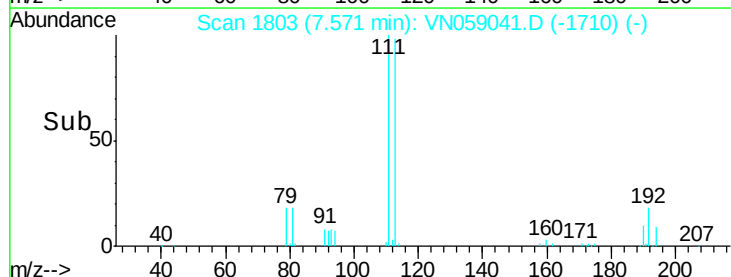
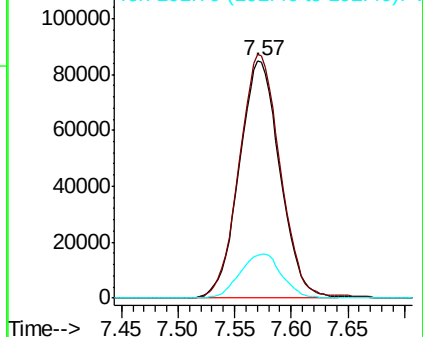


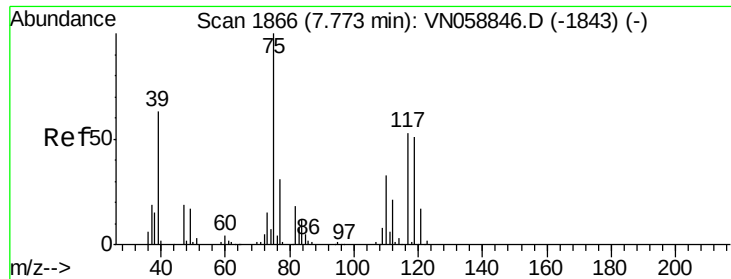
#35
 Dibromofluoromethane
 Concen: 51.705 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.0	123.0
192	19.1	15.0	22.6



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

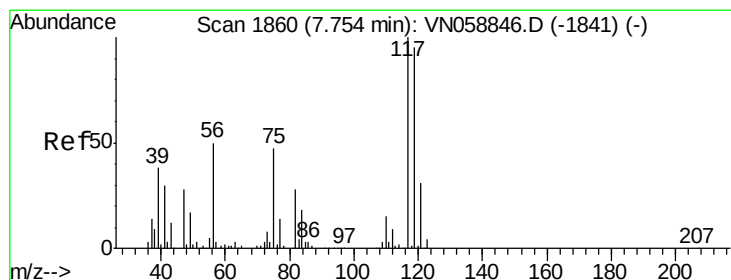
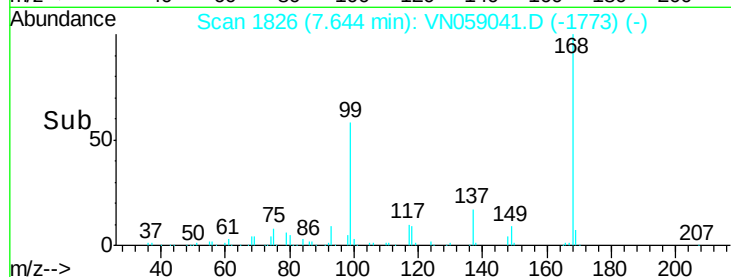
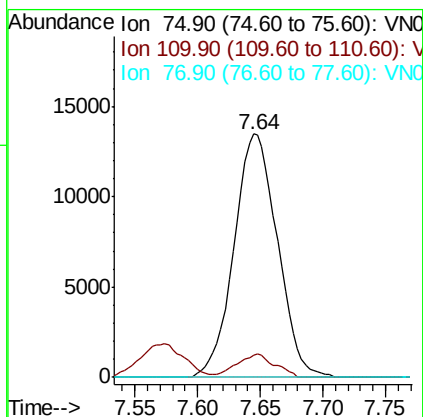
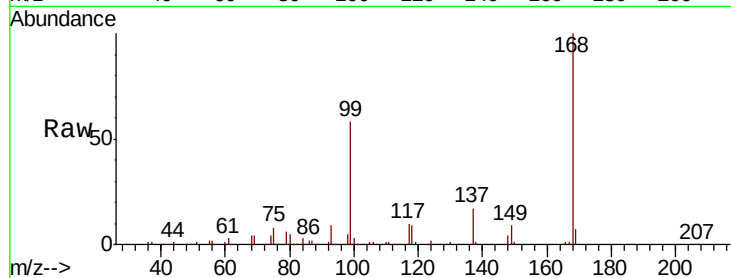




#36
 1,1-Dichloropropene
 Concen: 5.071 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

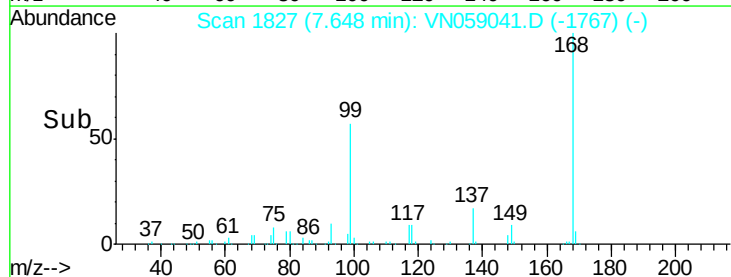
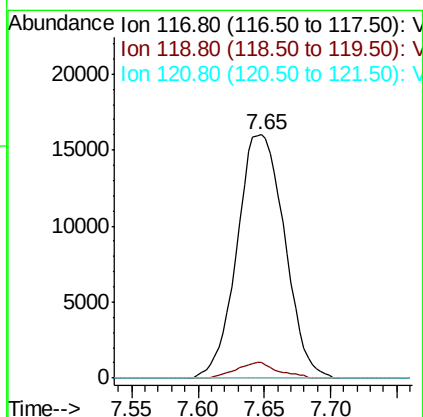
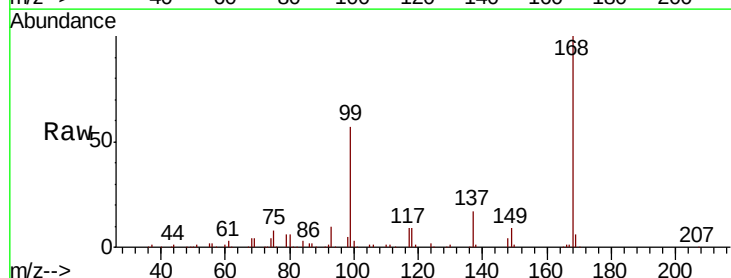
Instrument :
 MSVOA_N
 ClientSampled :

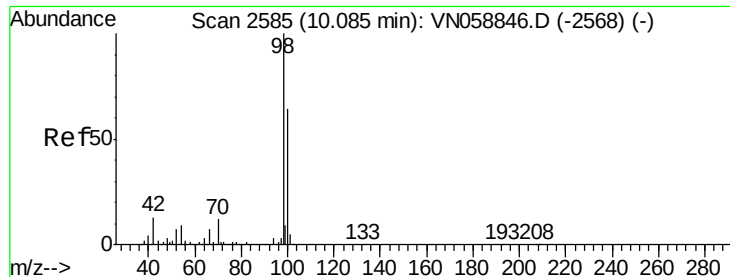
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.049 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	75.7	113.5#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 50.534 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

Instrument :

MSVOA_N

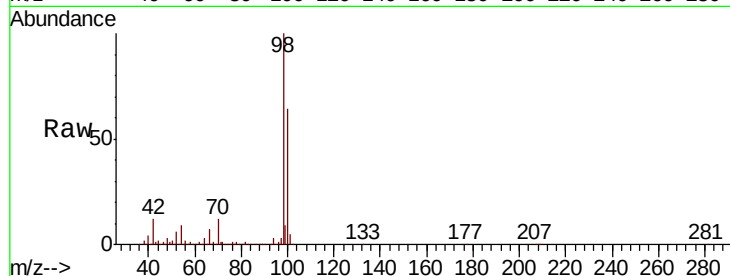
ClientSampleId :

Tot Ion: 98 Resp: 804069

Ion Ratio Lower Upper

98 100

100 63.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058846.D (-2568) (-)

10.08

500000

400000

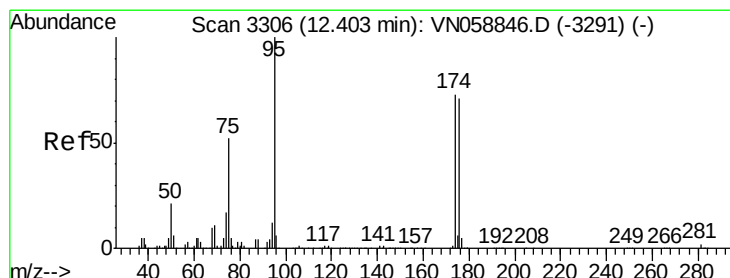
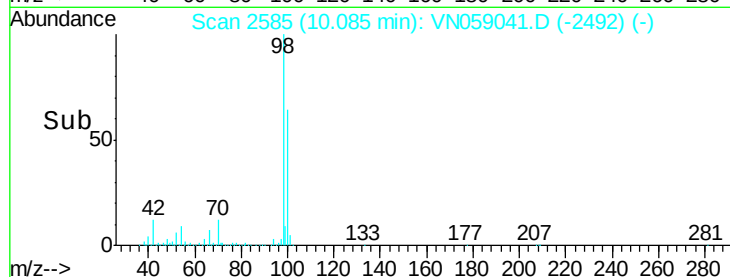
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.562 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

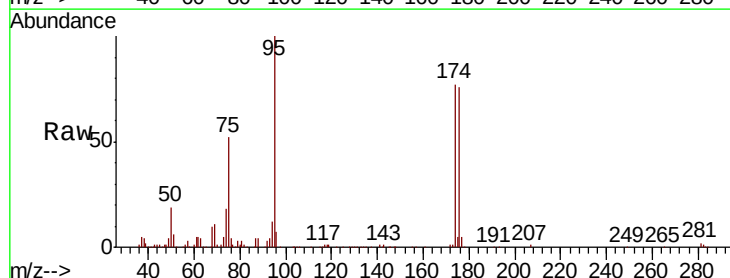
Tgt Ion: 95 Resp: 254538

Ion Ratio Lower Upper

95 100

174 76.7 0.0 147.6

176 75.1 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

12.41

200000

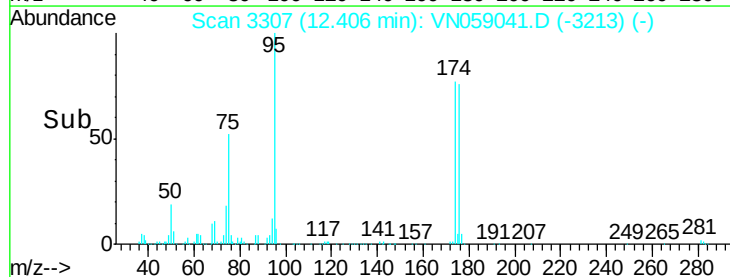
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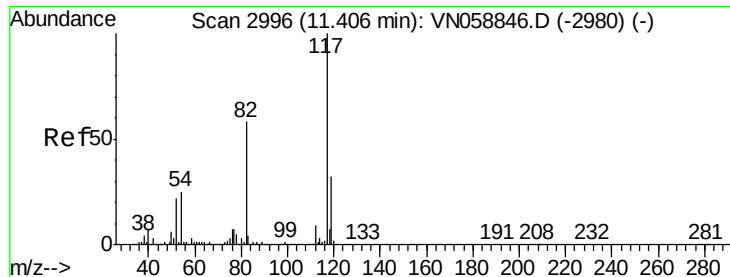
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50000

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Time-->

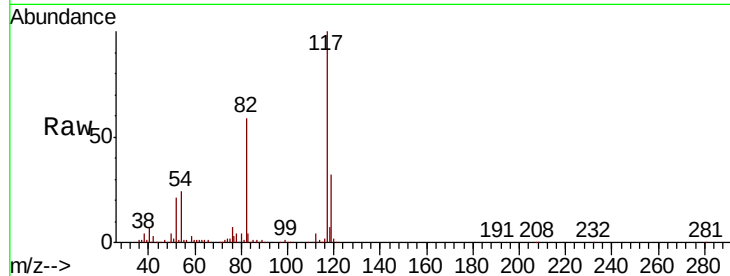




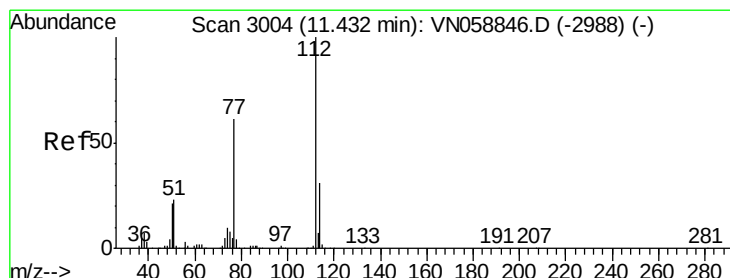
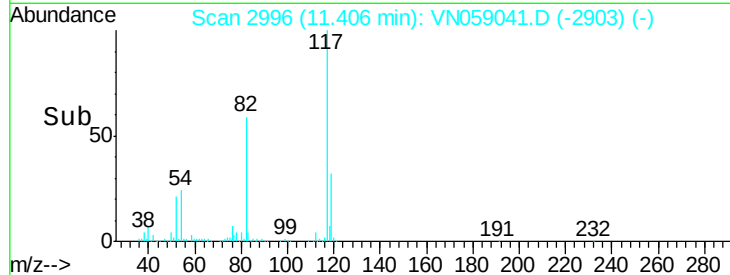
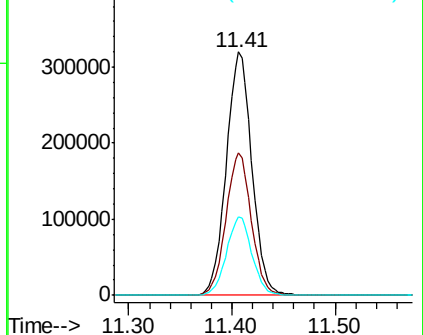
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059041.D
Acq: 31 Oct 2019 15:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 553577
Ion Ratio Lower Upper
117 100
82 58.5 46.6 69.8
119 32.1 25.6 38.4

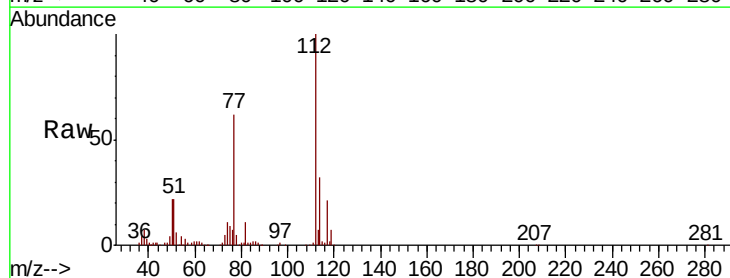


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

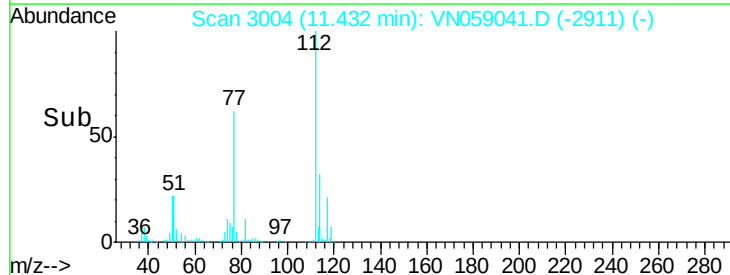
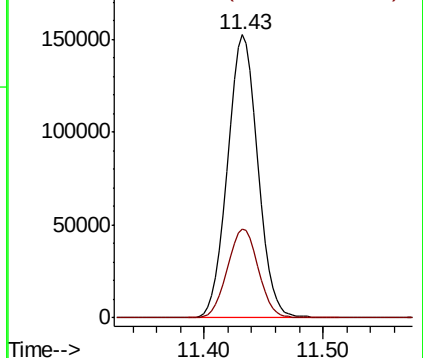


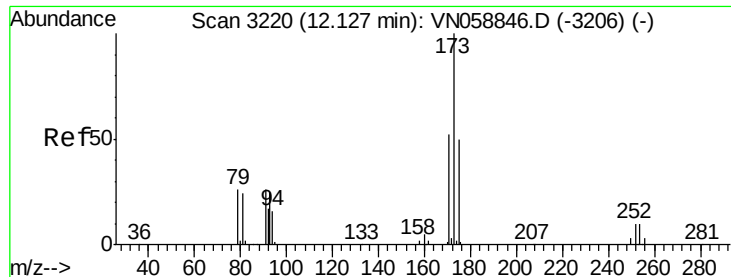
#65
Chlorobenzene
Concen: 23.839 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN059041.D
Acq: 31 Oct 2019 15:59

Tgt Ion:112 Resp: 268665
Ion Ratio Lower Upper
112 100
114 31.6 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.421 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

Instrument :

MSVOA_N

ClientSampleId :

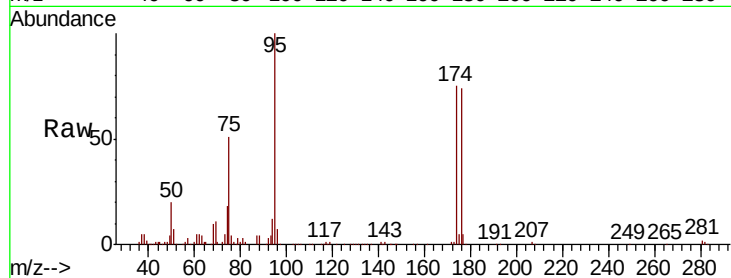
Tot Ion:173 Resp: 1388

Ion Ratio Lower Upper

173 100

175 759.4 24.7 74.1#

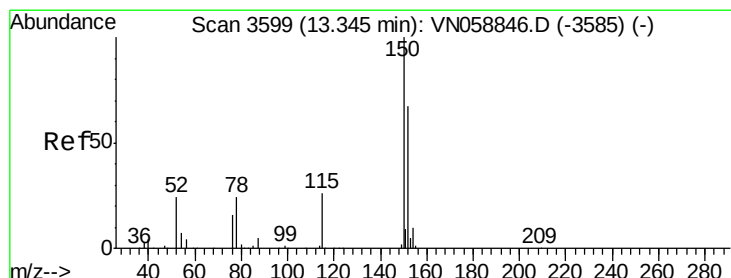
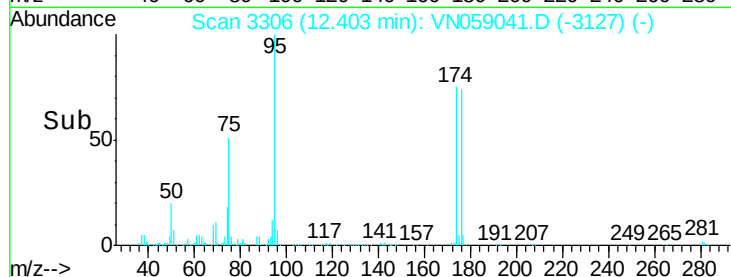
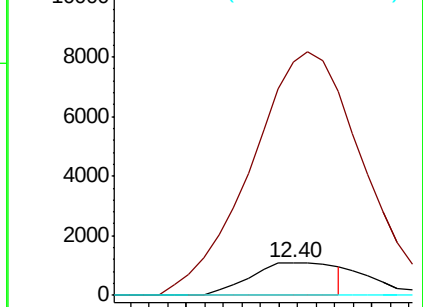
254 0.0 0.0 0.0



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# 3600

Delta R.T. 0.00 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

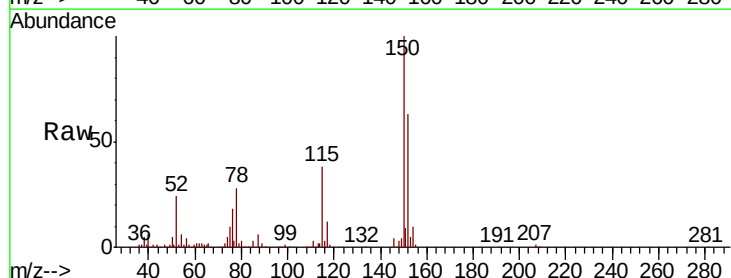
Tgt Ion:152 Resp: 209052

Ion Ratio Lower Upper

152 100

115 60.7 30.5 91.5

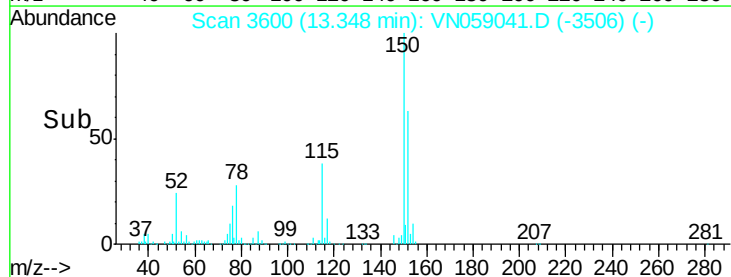
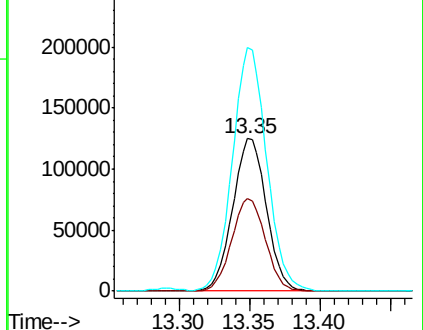
150 161.7 0.0 344.4

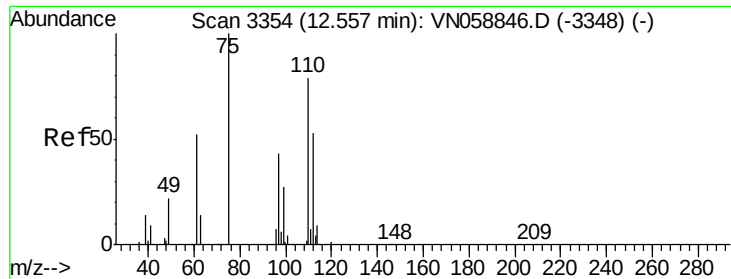


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.133 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

Instrument :

MSVOA_N

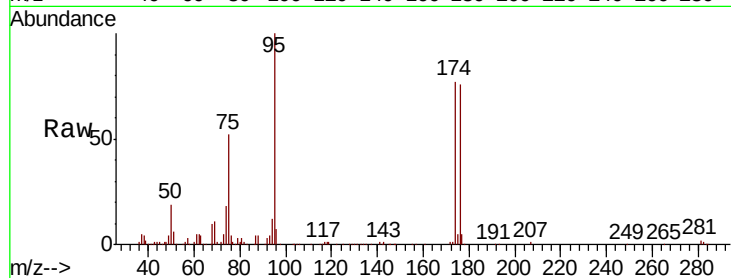
ClientSampleId :

Tot Ion: 75 Resp: 131462

Ion Ratio Lower Upper

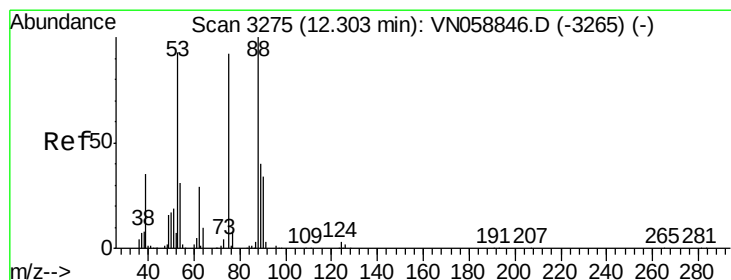
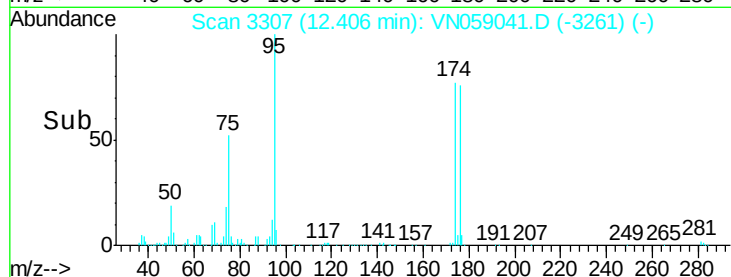
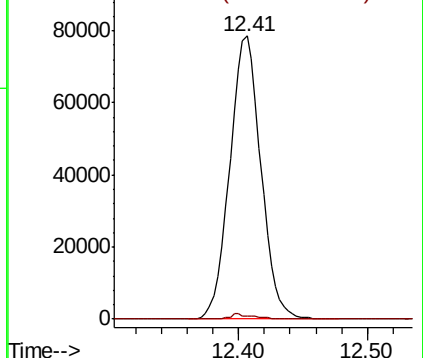
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 70.685 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

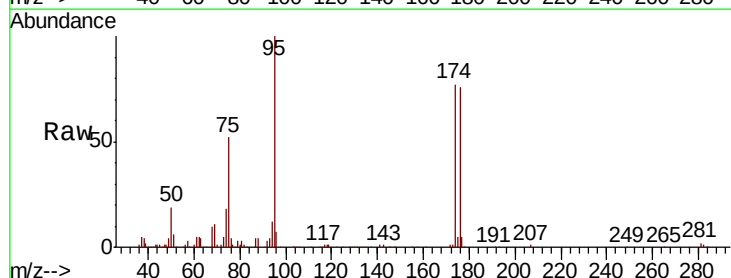
Tgt Ion: 75 Resp: 131462

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

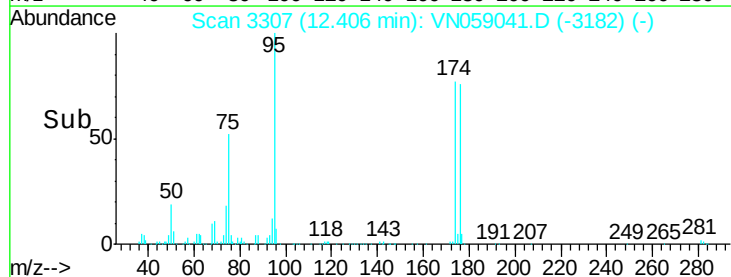
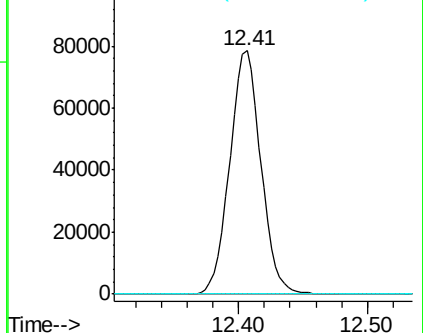
89 0.0 35.4 53.0#

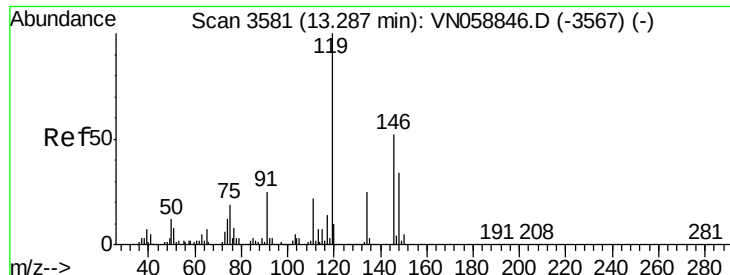


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

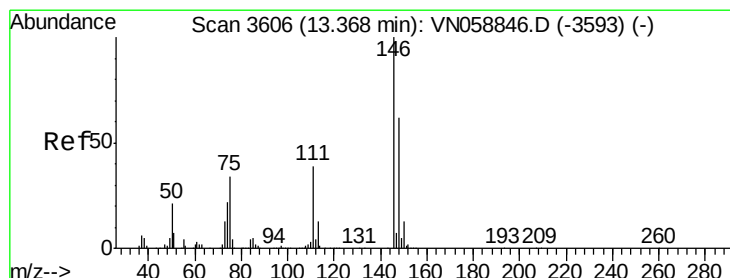
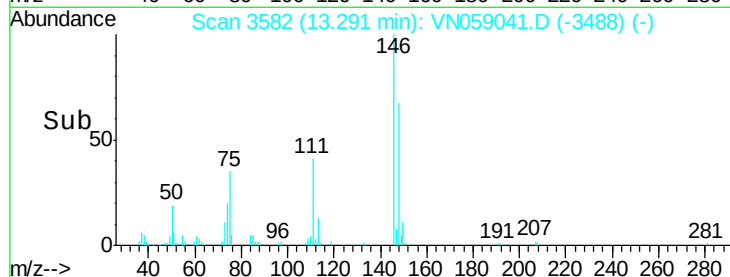
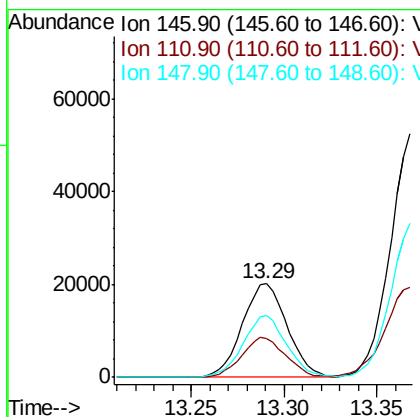
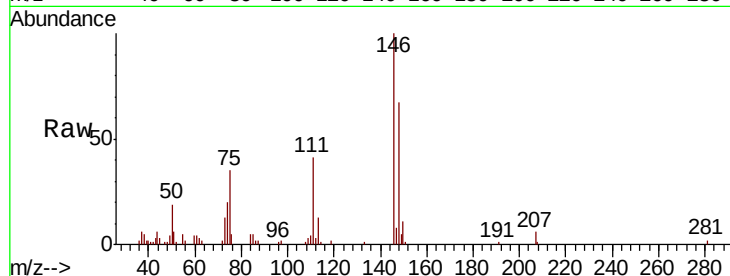




#87
 1,3-Dichlorobenzene
 Concen: 5.074 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

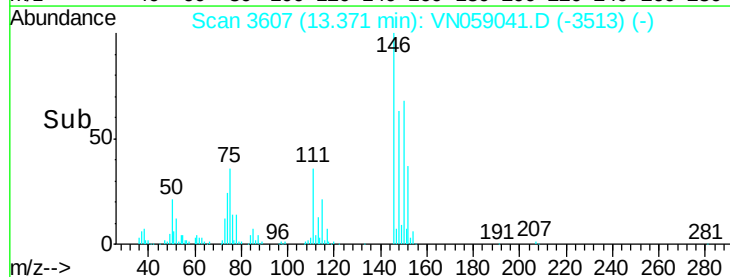
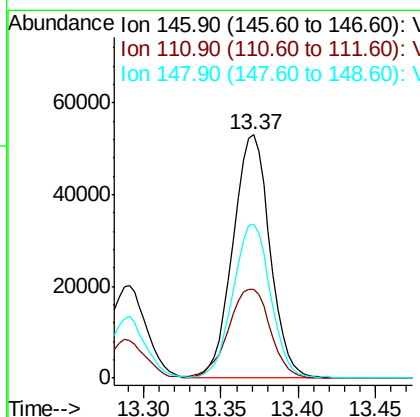
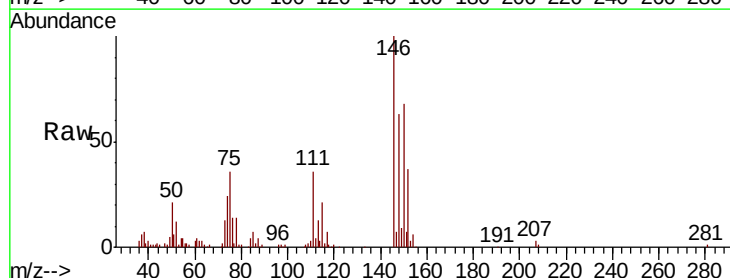
Instrument :
 MSVOA_N
 ClientSampleId :

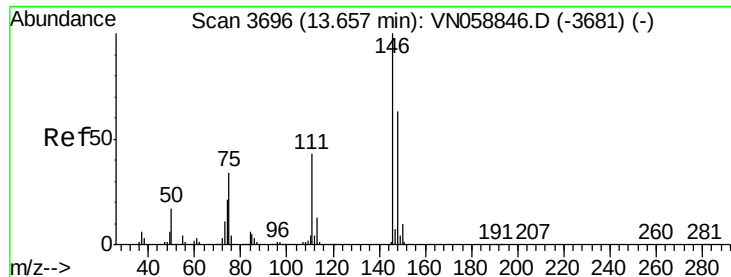
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	21.0	63.0
148	63.8	32.1	96.3



#88
 1,4-Dichlorobenzene
 Concen: 13.099 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.6
148	64.5	31.6	94.7

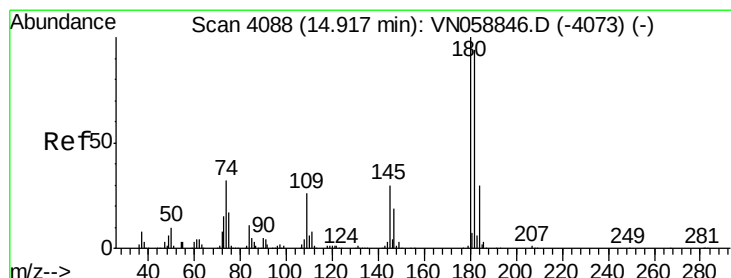
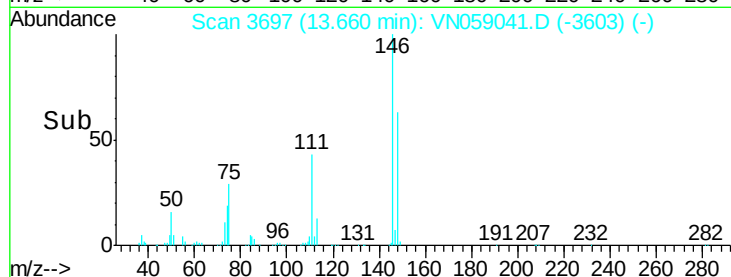
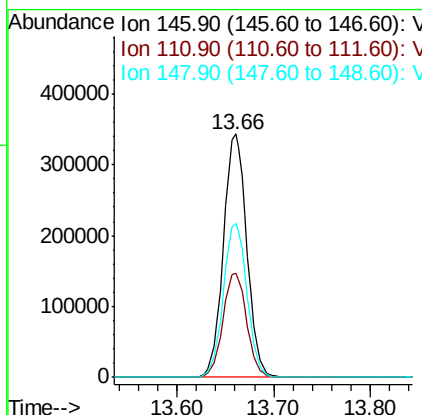
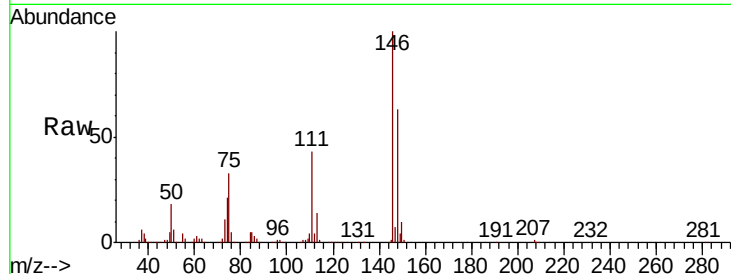




#91
 1,2-Dichlorobenzene
 Concen: 86.980 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

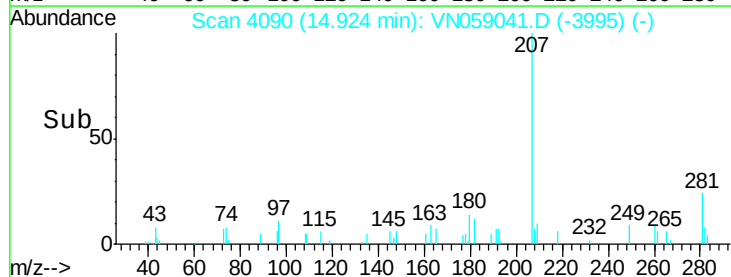
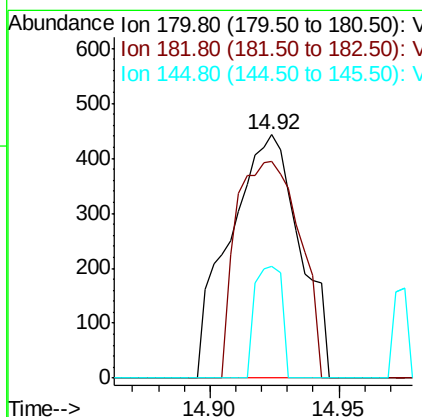
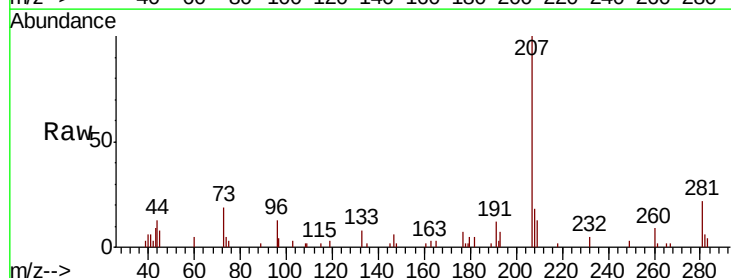
Instrument :
 MSVOA_N
 ClientSampleId :

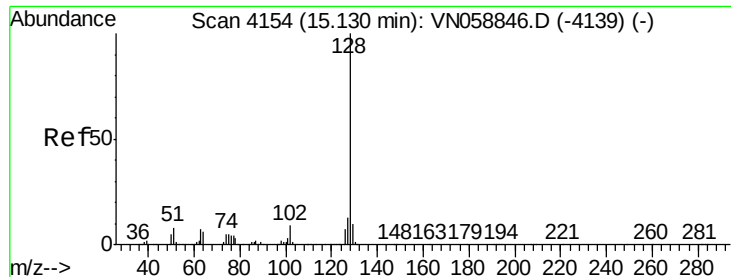
Tot Ion:146 Resp: 575638
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.6 64.8
 148 64.2 31.9 95.9



#93
 1,2,4-Trichlorobenzene
 Concen: 2.711 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN059041.D
 Acq: 31 Oct 2019 15:59

Tgt Ion:180 Resp: 836
 Ion Ratio Lower Upper
 180 100
 182 80.7 47.3 142.0
 145 17.7 15.3 45.8





#95

Naphthalene

Concen: 2.268 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

Instrument :

MSVOA_N

ClientSampleId :

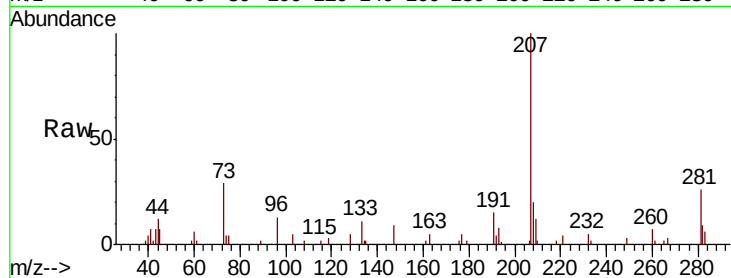
Tot Ion:128 Resp: 536

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



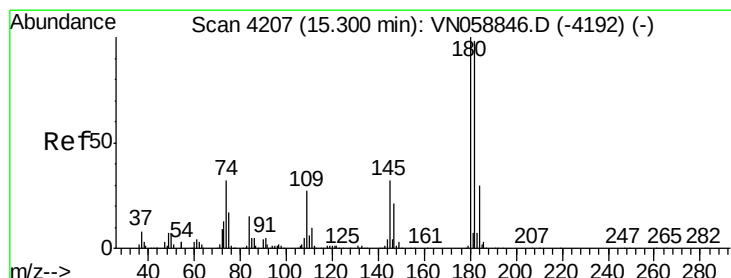
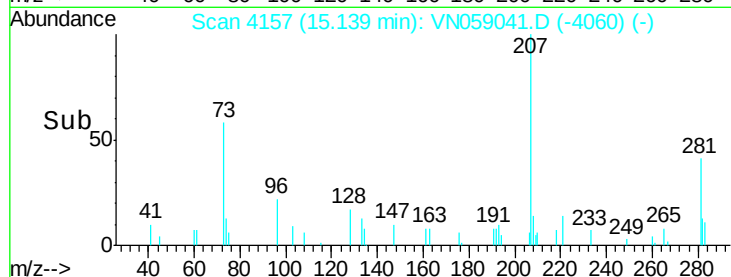
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.445 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN059041.D

Acq: 31 Oct 2019 15:59

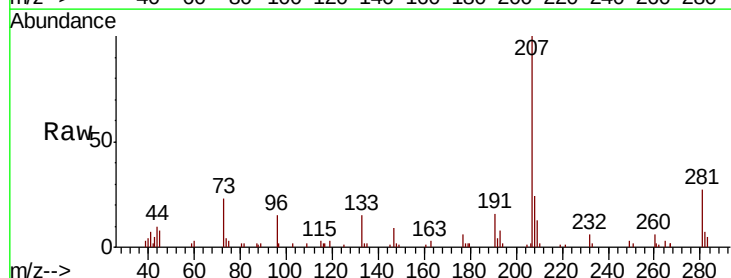
Tgt Ion:180 Resp: 215

Ion Ratio Lower Upper

180 100

182 30.2 47.9 143.7#

145 42.8 15.9 47.7



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

15.30

Time-->

