

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091219\
 Data File : VN057941.D
 Acq On : 11 Sep 2019 22:01
 Operator : JC/SP
 Sample : K4835-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PZ-3

Quant Time: Sep 12 02:32:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	277732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	377308	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	341404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	206252	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	314013	55.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.64%	
35) Dibromofluoromethane	7.58	113	213161	61.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.42%	
50) Toluene-d8	10.09	98	6042	0.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	0.90%	
62) 4-Bromofluorobenzene	12.41	95	208682	40.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.00%	

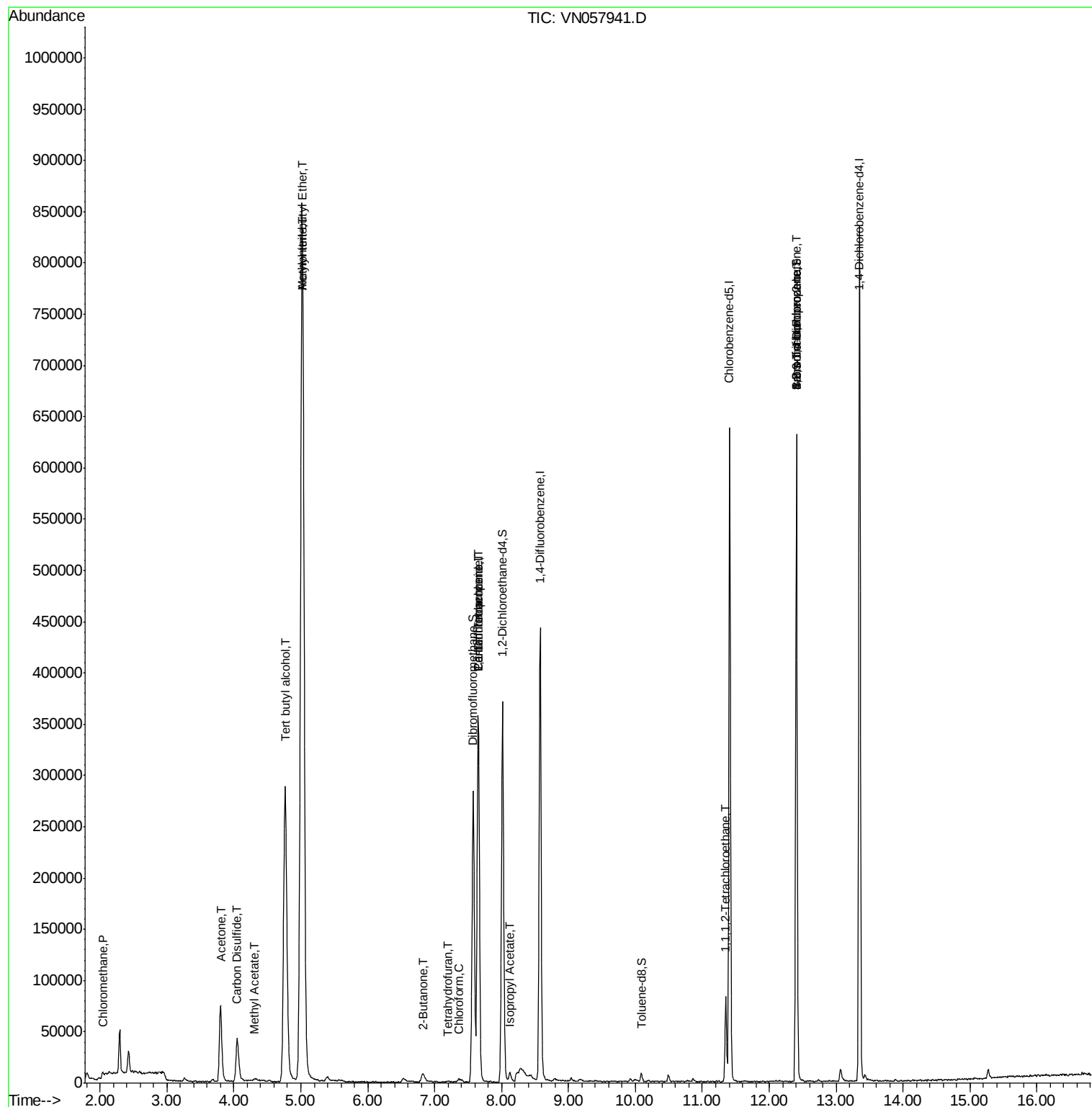
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2323	0.593	ug/l #	84
5) Bromomethane	2.54	94	329	Below Cal	#	64
11) Tert butyl alcohol	4.77	59	499453	733.590	ug/l	100
15) Acrylonitrile	5.02	53	17300	9.245	ug/l #	21
16) Acetone	3.80	43	125104	67.842	ug/l	98
17) Carbon Disulfide	4.03	76	691	0.308	ug/l #	75
18) Methyl Acetate	4.31	43	2026	0.412	ug/l #	88
19) Methyl tert-butyl Ether	5.02	73	1458134	118.476	ug/l	98
20) Methylene Chloride	4.52	84	270	Below Cal	#	77
25) 2-Butanone	6.83	43	13723	5.142	ug/l	99
29) Tetrahydrofuran	7.21	42	446	0.271	ug/l #	34
30) Chloroform	7.36	83	2749	0.354	ug/l #	79
31) Cyclohexane	7.65	56	8132	Below Cal	#	35
36) 1,1-Dichloropropene	7.65	75	24163	5.522	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30558	7.649	ug/l #	15
43) Isopropyl Acetate	8.13	43	2185	0.287	ug/l #	56
66) 1,1,1,2-Tetrachloroethane	11.35	131	3098	0.999	ug/l #	28
71) Bromoform	12.41	173	1069	0.553	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	119501	25.612	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	119501	90.130	ug/l #	6
95) Naphthalene	15.14	128	340	Below Cal	#	69

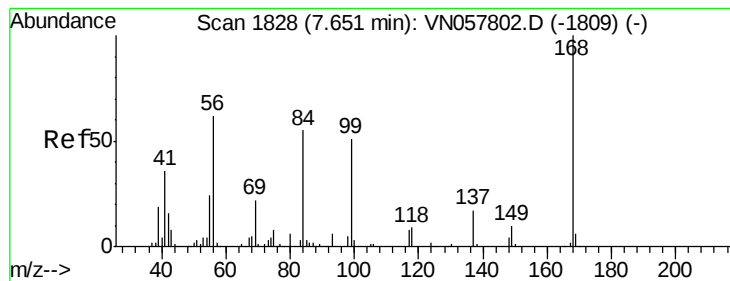
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampled :

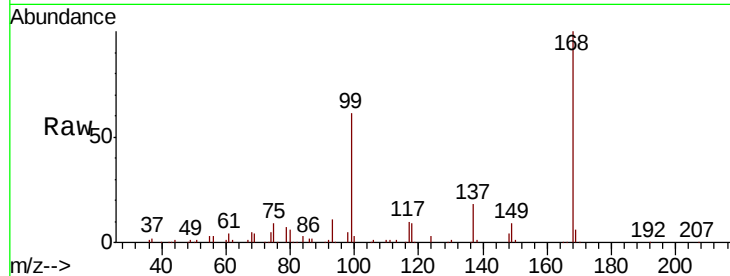
PZ-3

Tgt Ion: 168 Resp: 277732

Ion Ratio Lower Upper

168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

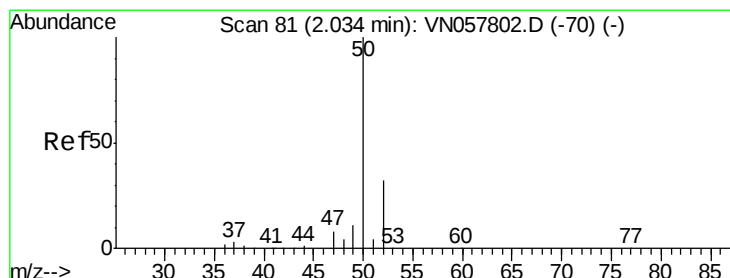
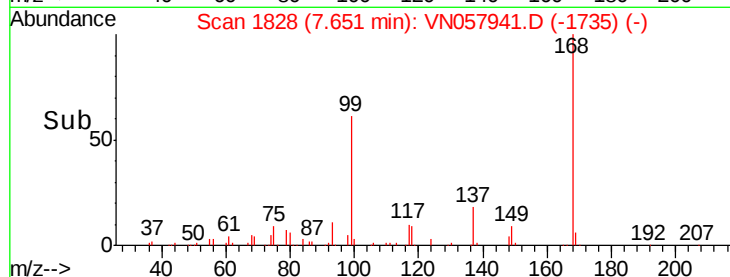
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.593 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN057941.D

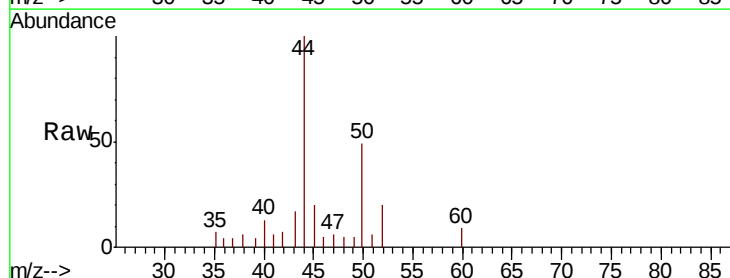
Acq: 11 Sep 2019 22:01

Tgt Ion: 50 Resp: 2323

Ion Ratio Lower Upper

50 100

52 41.1 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

2000

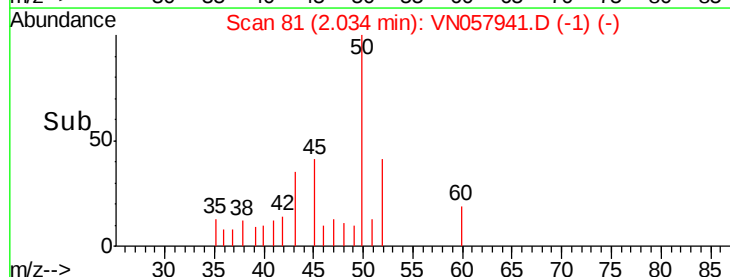
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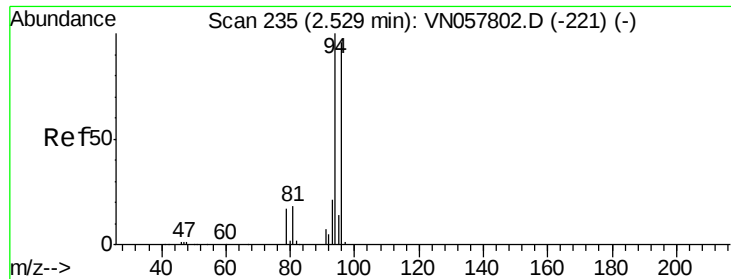
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampleId :

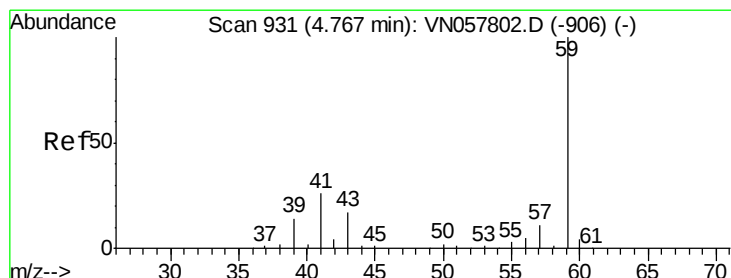
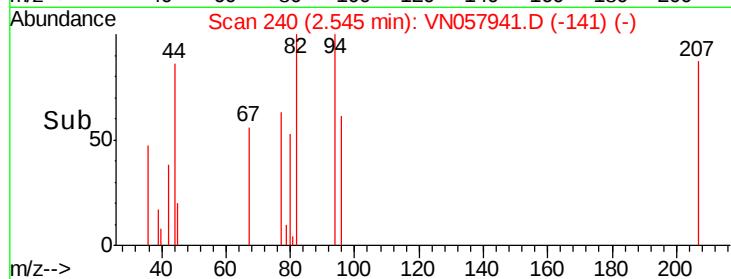
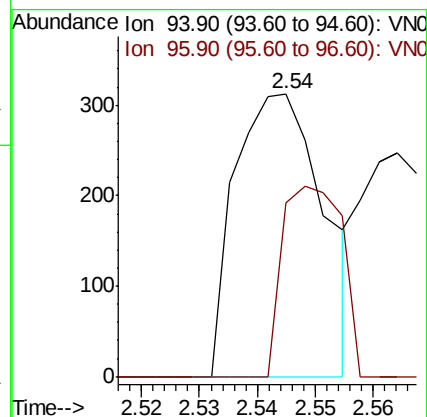
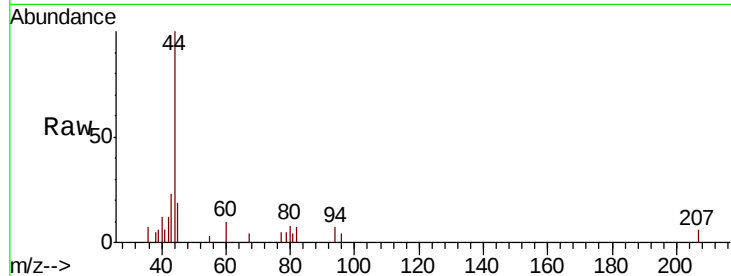
PZ-3

Tgt Ion: 94 Resp: 329

Ion Ratio Lower Upper

94 100

96 61.3 77.0 115.4#



#11

Tert butyl alcohol

Concen: 733.590 ug/l

RT: 4.77 min Scan# 931

Delta R.T. 0.00 min

Lab File: VN057941.D

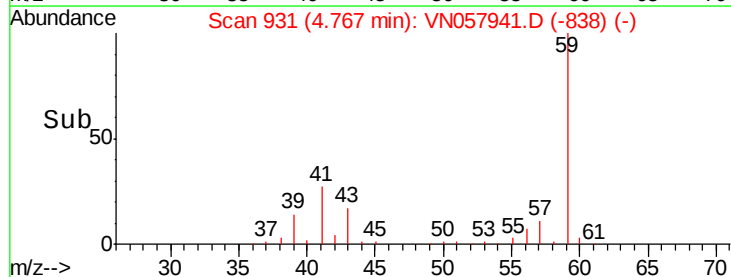
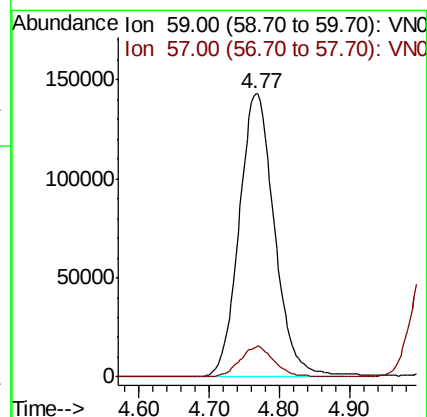
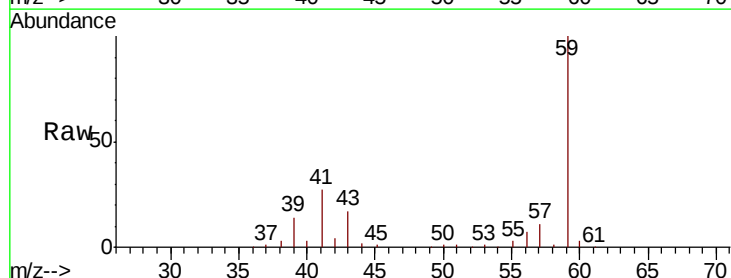
Acq: 11 Sep 2019 22:01

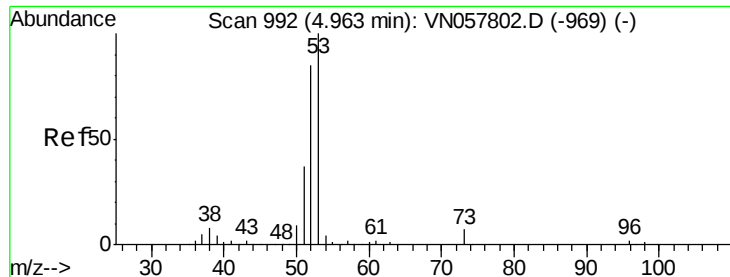
Tgt Ion: 59 Resp: 499453

Ion Ratio Lower Upper

59 100

57 10.5 8.4 12.6





#15

Acrylonitrile

Concen: 9.245 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.05 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampleId :

PZ-3

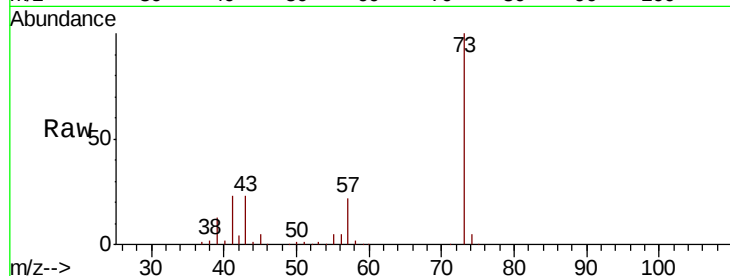
Tgt Ion: 53 Resp: 17300

Ion Ratio Lower Upper

53 100

52 12.7 66.6 100.0#

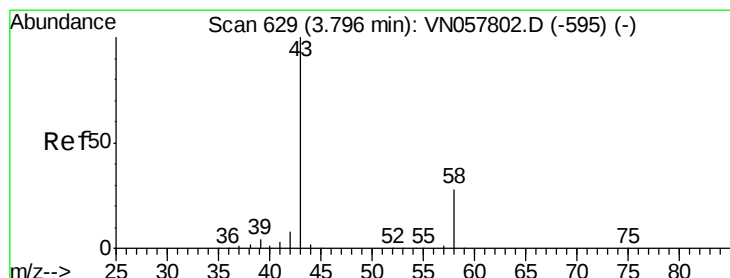
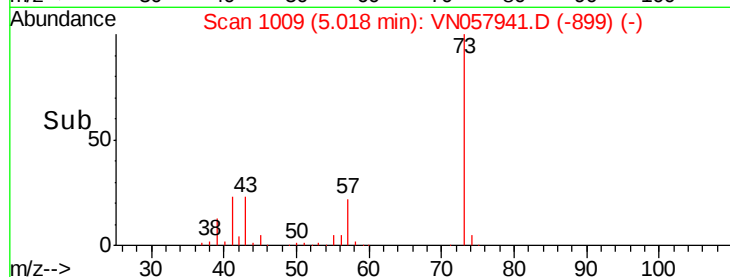
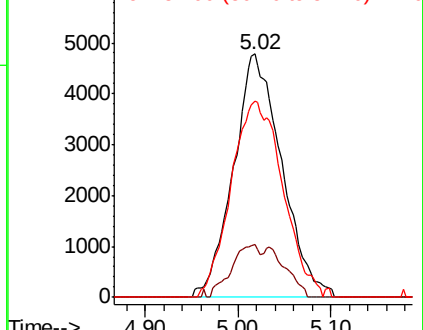
51 86.3 29.8 44.8#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 67.842 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057941.D

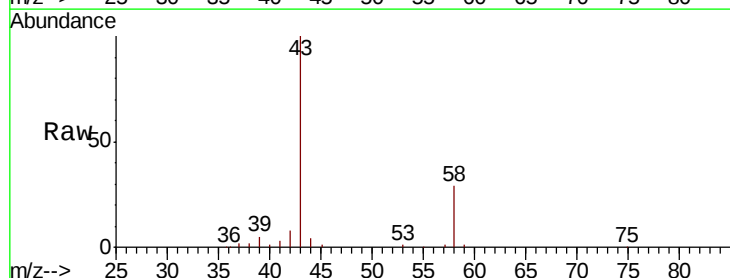
Acq: 11 Sep 2019 22:01

Tgt Ion: 43 Resp: 125104

Ion Ratio Lower Upper

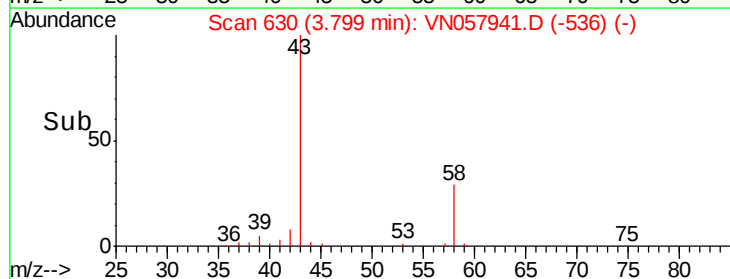
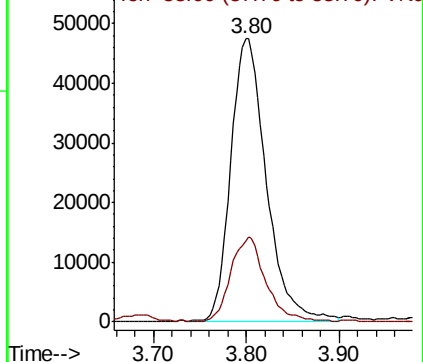
43 100

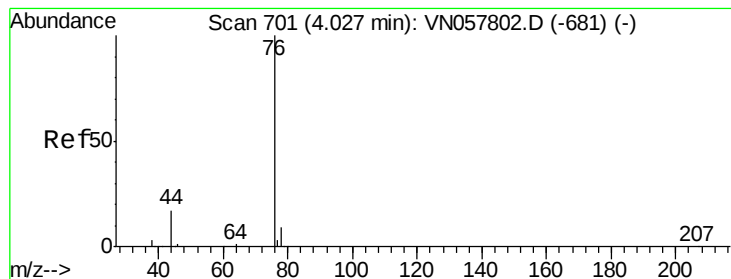
58 28.7 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.308 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampled :

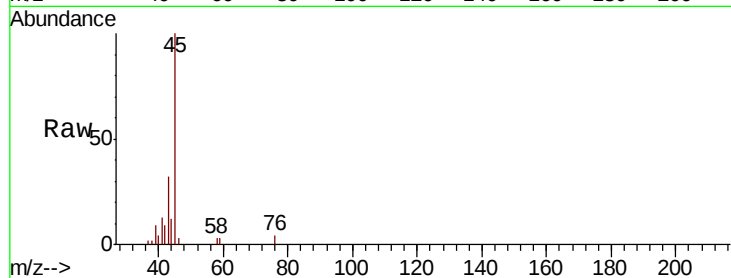
PZ-3

Tgt Ion: 76 Resp: 691

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

400

300

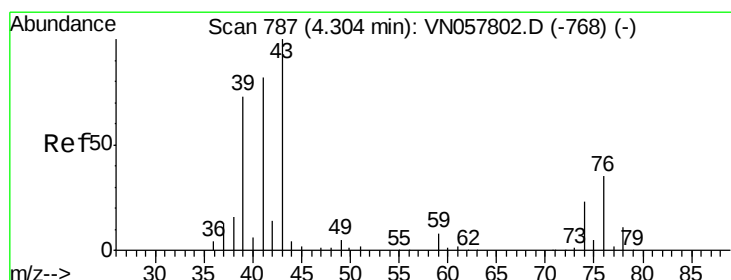
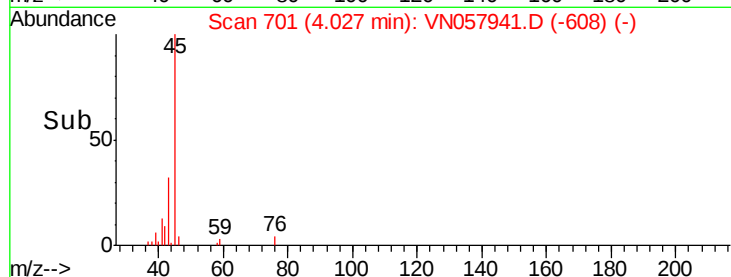
200

100

0

4.00 4.02 4.04 4.06

Time-->



#18

Methyl Acetate

Concen: 0.412 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN057941.D

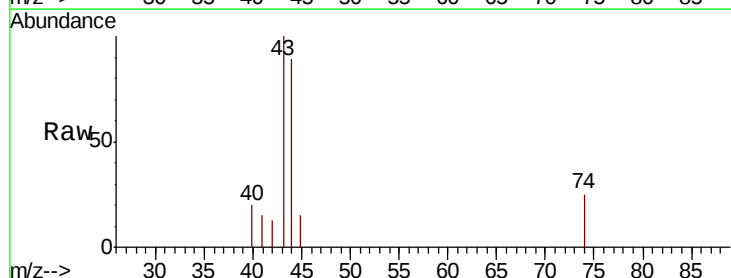
Acq: 11 Sep 2019 22:01

Tgt Ion: 43 Resp: 2026

Ion Ratio Lower Upper

43 100

74 28.2 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

1500

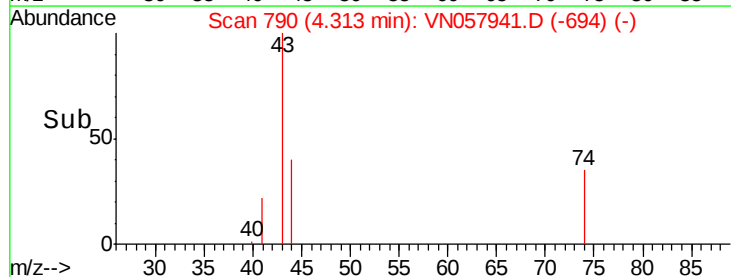
1000

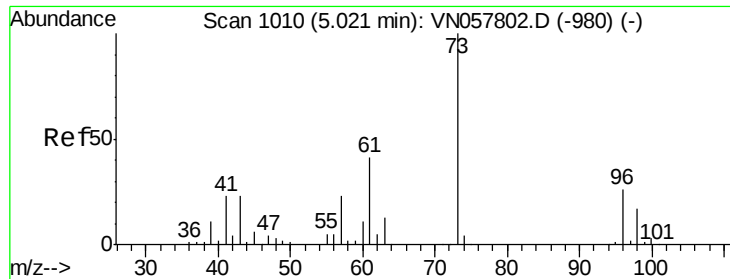
500

0

4.26 4.28 4.30 4.32 4.34

Time-->

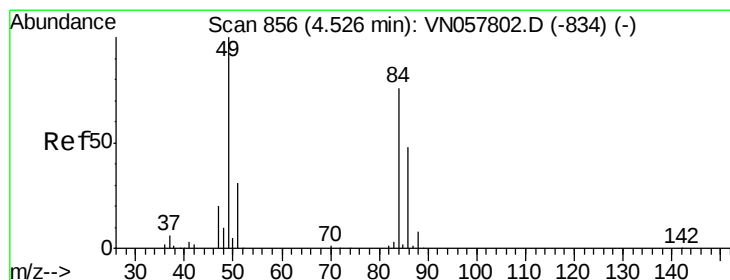
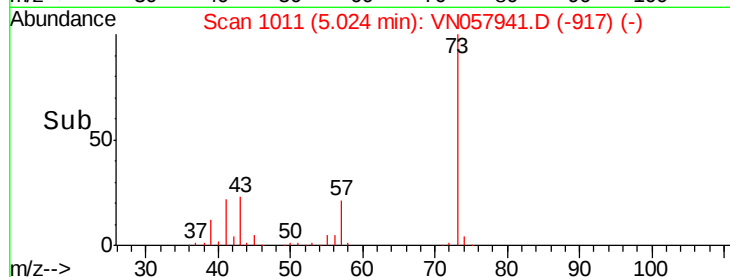
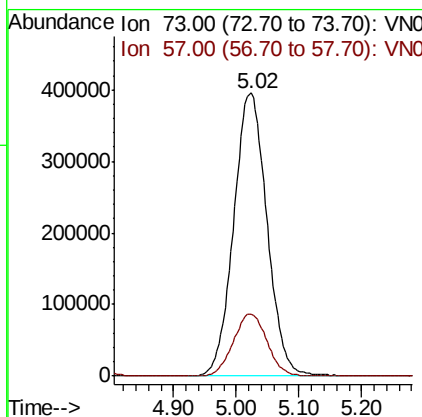
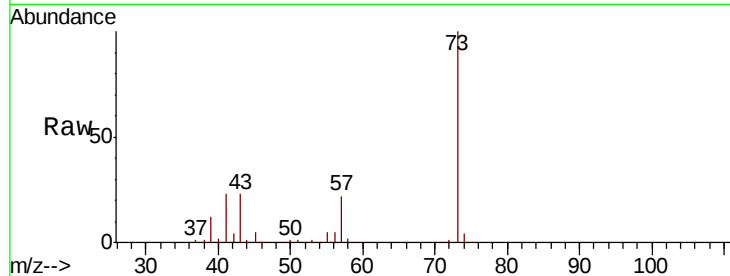




#19
Methyl tert-butyl Ether
Concen: 118.476 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

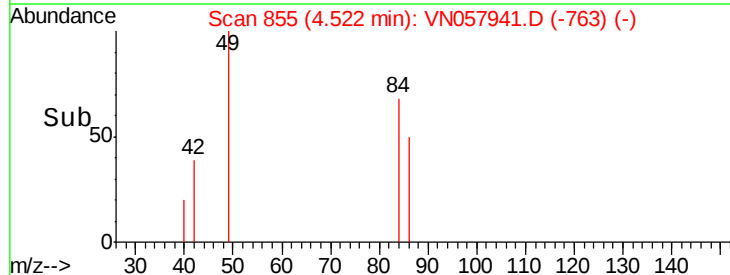
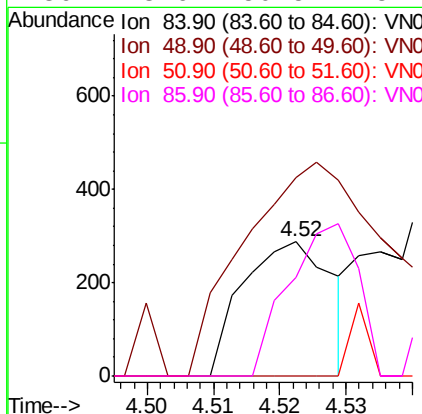
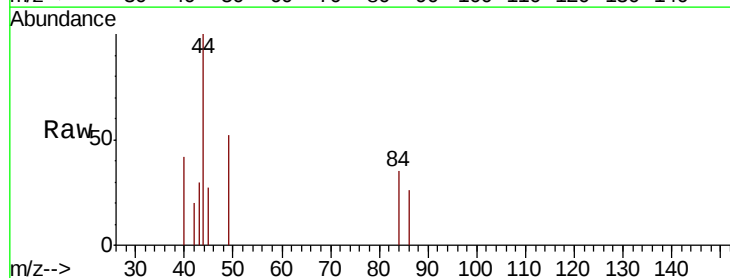
Instrument :
MSVOA_N
ClientSampled :
PZ-3

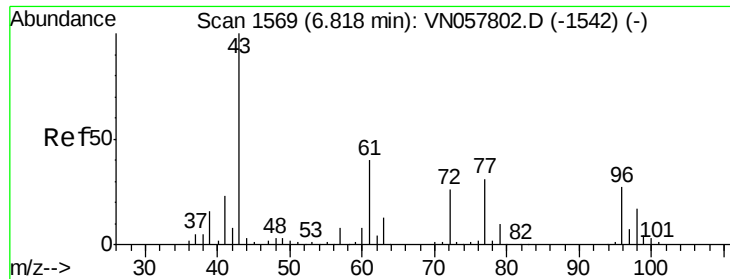
Tgt Ion: 73 Resp: 1458134
Ion Ratio Lower Upper
73 100
57 21.8 18.2 27.2



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Tgt Ion: 84 Resp: 270
Ion Ratio Lower Upper
84 100
49 147.9 104.8 157.2
51 0.0 33.0 49.4#
86 73.6 50.5 75.7

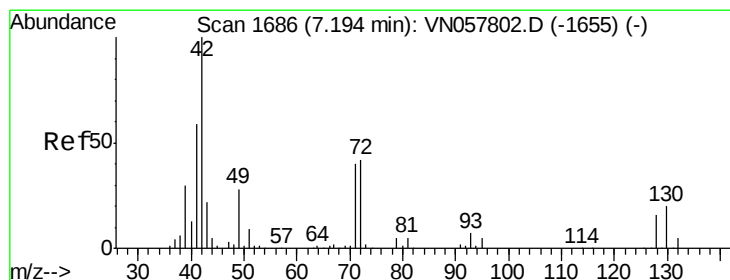
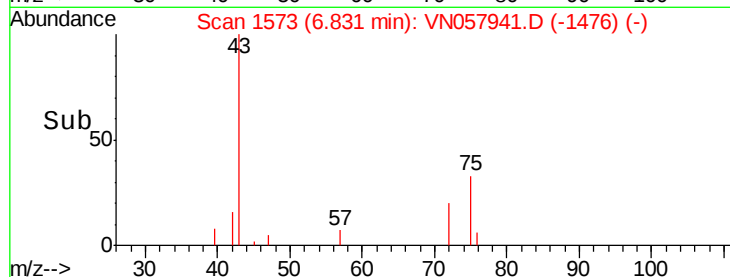
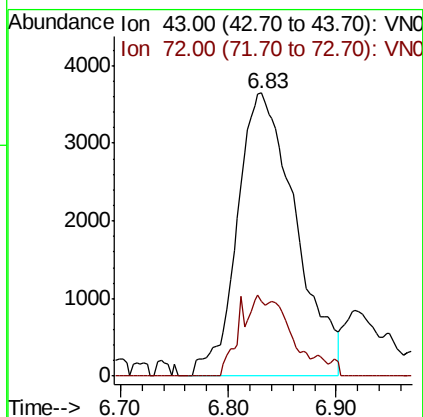
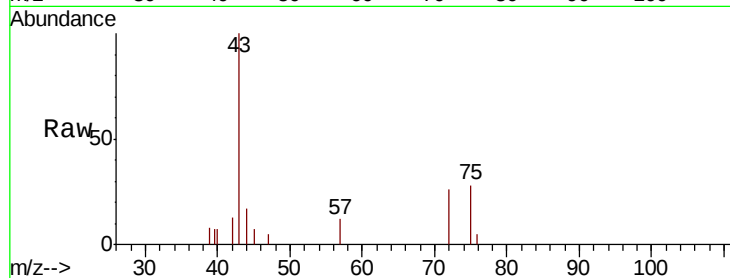




#25
2-Butanone
Concen: 5.142 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

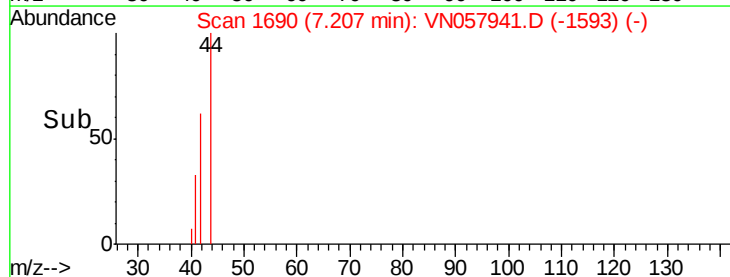
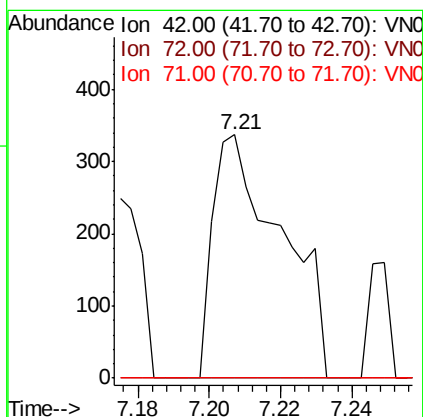
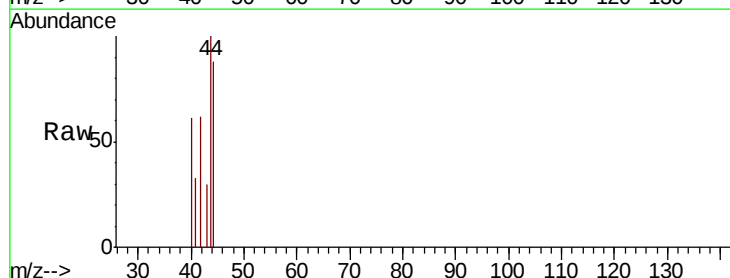
Instrument :
MSVOA_N
ClientSampled :
PZ-3

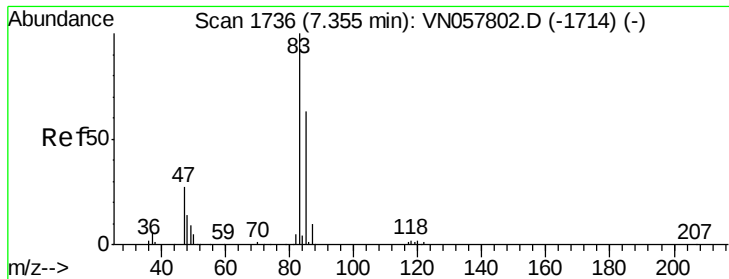
Tgt Ion: 43 Resp: 13723
Ion Ratio Lower Upper
43 100
72 26.4 20.6 30.8



#29
Tetrahydrofuran
Concen: 0.271 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Tgt Ion: 42 Resp: 446
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#

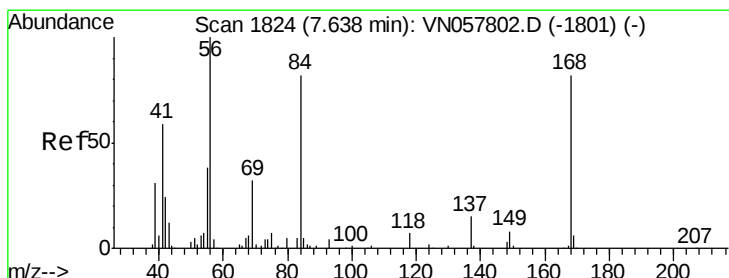
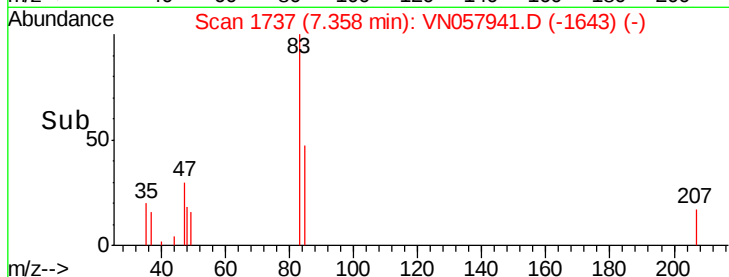
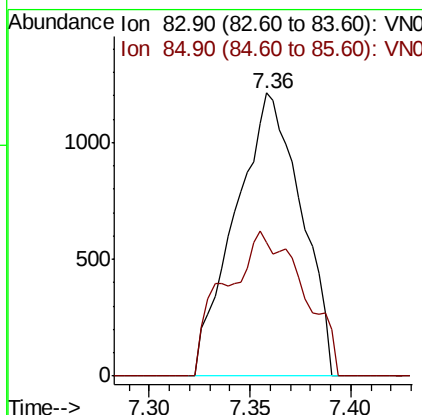
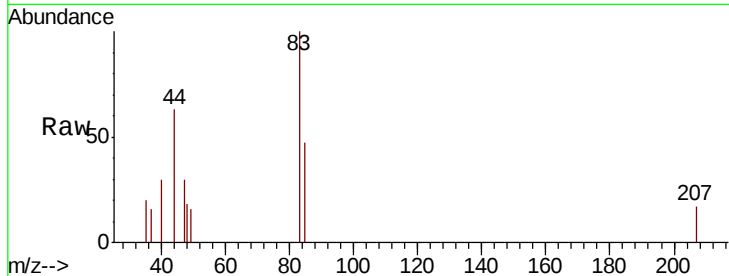




#30
Chloroform
Concen: 0.354 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

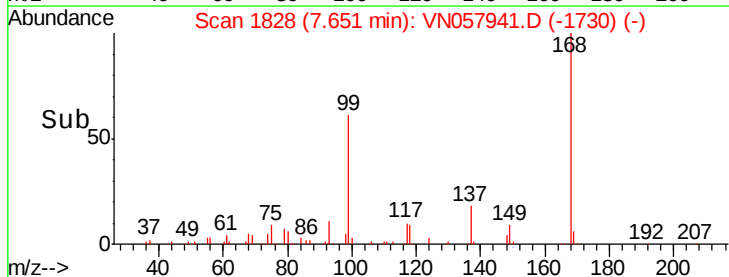
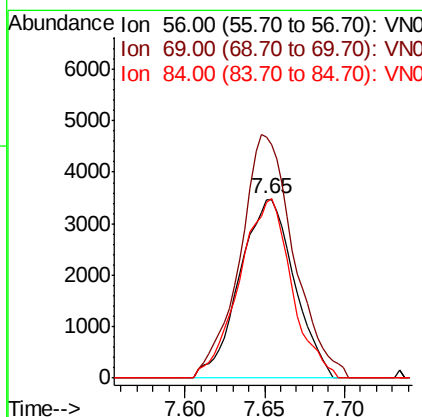
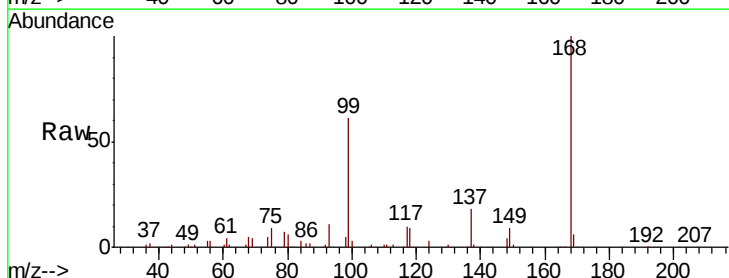
Instrument :
MSVOA_N
ClientSampleId :
PZ-3

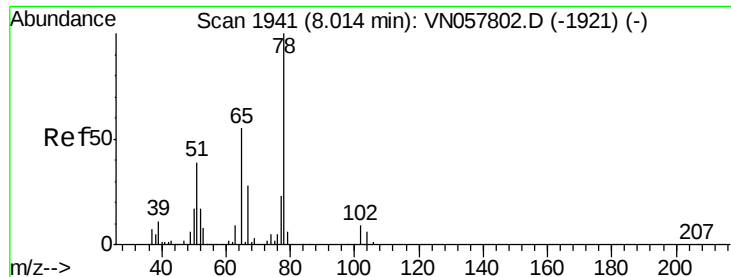
Tgt Ion: 83 Resp: 2749
Ion Ratio Lower Upper
83 100
85 47.0 50.6 75.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Tgt Ion: 56 Resp: 8132
Ion Ratio Lower Upper
56 100
69 135.0 25.9 38.9#
84 98.6 65.6 98.4#

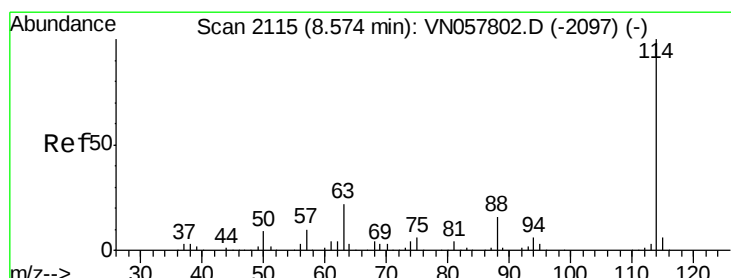
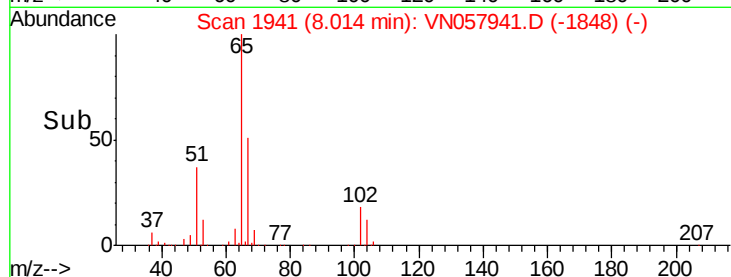
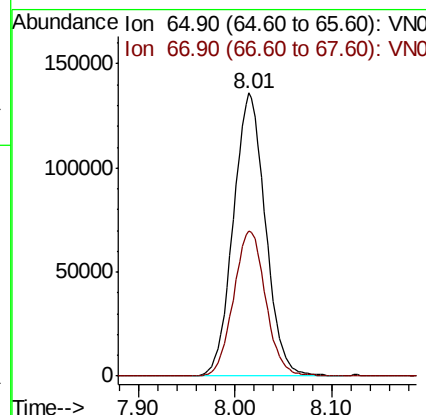
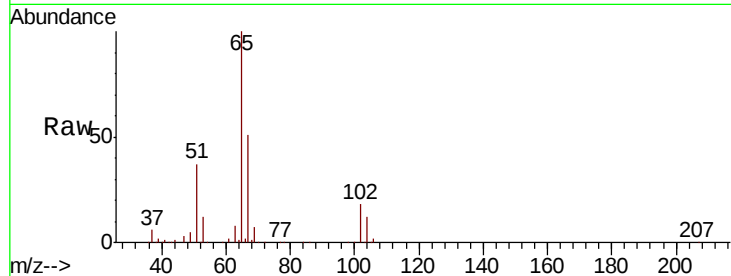




#33
 1,2-Dichloroethane-d4
 Concen: 55.822 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057941.D
 Acq: 11 Sep 2019 22:01

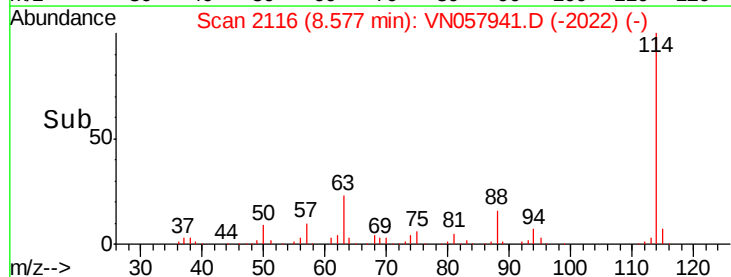
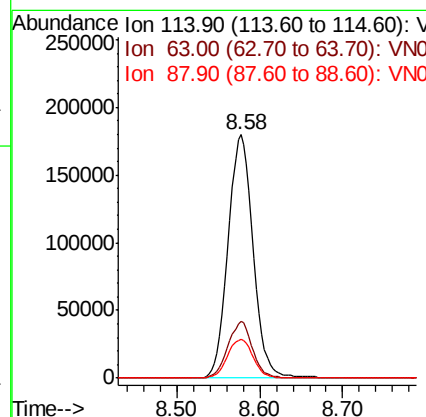
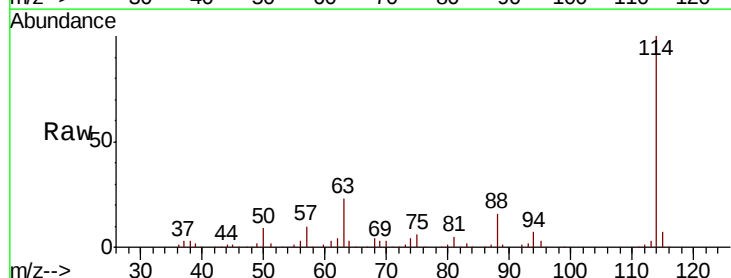
Instrument :
 MSVOA_N
 ClientSampled :
 PZ-3

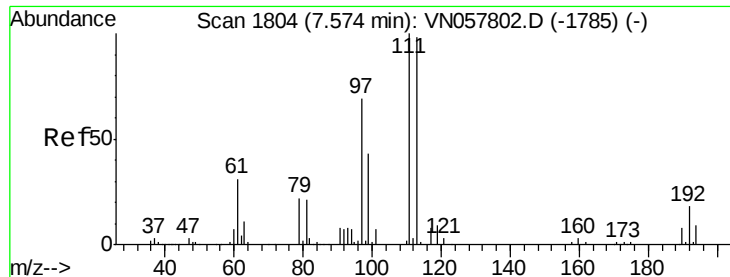
Tgt Ion: 65 Resp: 314013
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057941.D
 Acq: 11 Sep 2019 22:01

Tgt Ion: 114 Resp: 377308
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 44.0
 88 15.7 0.0 31.4

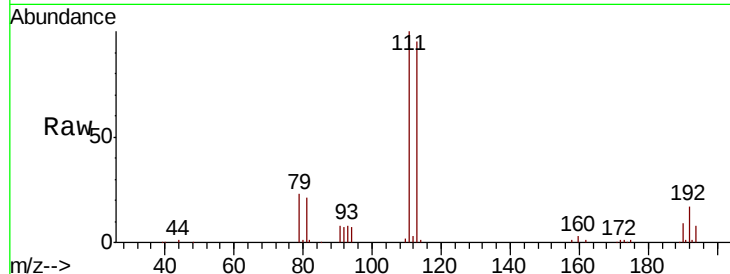




#35
 Dibromofluoromethane
 Concen: 61.211 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057941.D
 Acq: 11 Sep 2019 22:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PZ-3

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	17.4	14.6	22.0

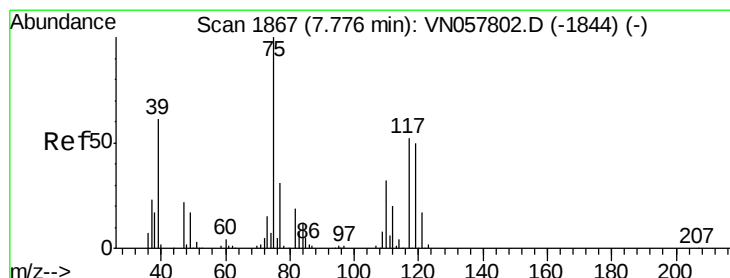
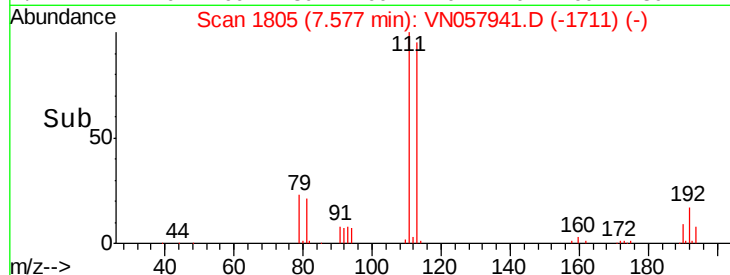
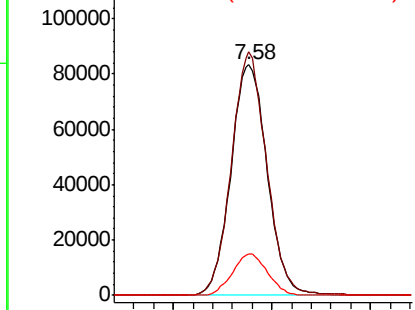


Abundance

Ion 112.80 (112.50 to 113.50): V

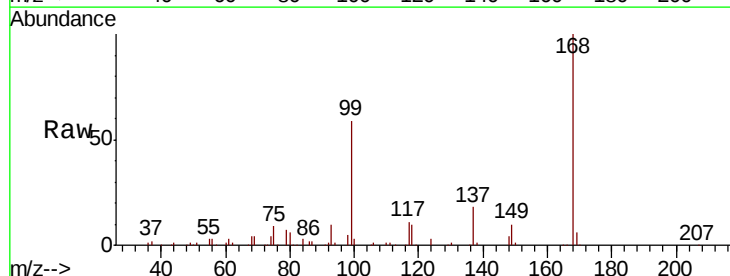
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.522 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057941.D
 Acq: 11 Sep 2019 22:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	25.0	37.4#

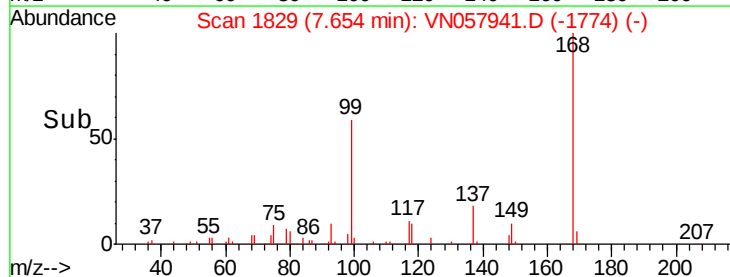
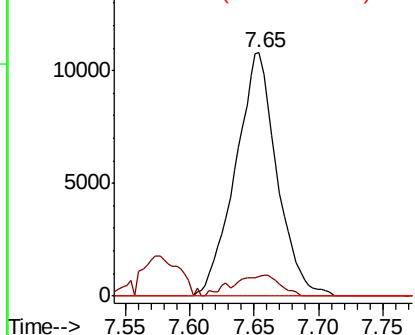


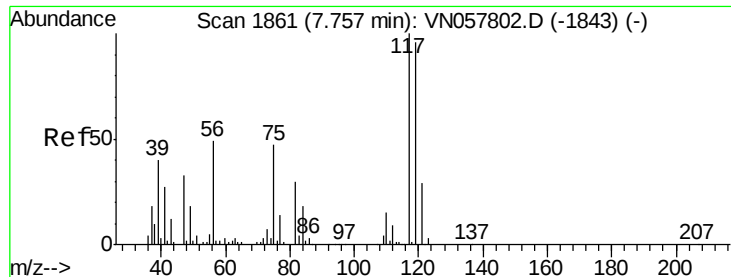
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

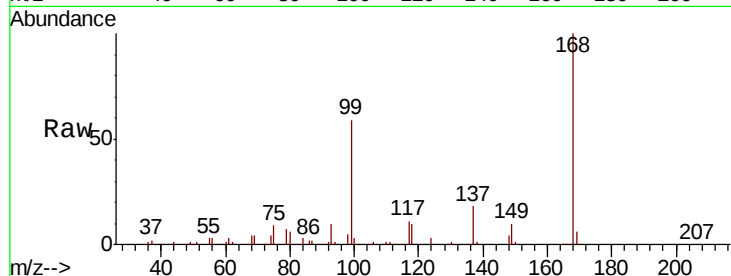




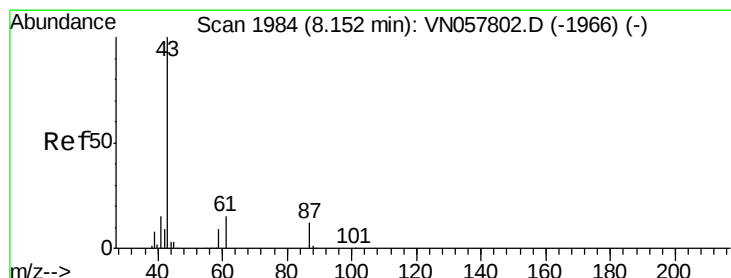
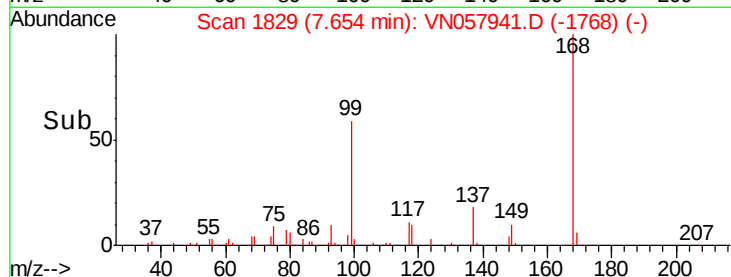
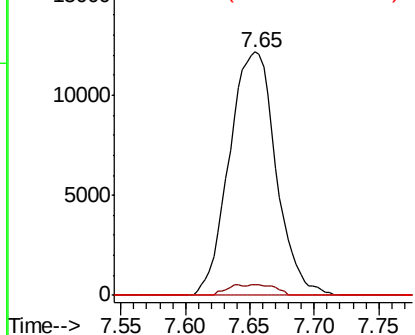
#38
Carbon Tetrachloride
Concen: 7.649 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Instrument :
MSVOA_N
ClientSampleId :
PZ-3

Tgt Ion: 117 Resp: 30558
Ion Ratio Lower Upper
117 100
119 4.4 76.9 115.3#
121 0.0 23.4 35.2#

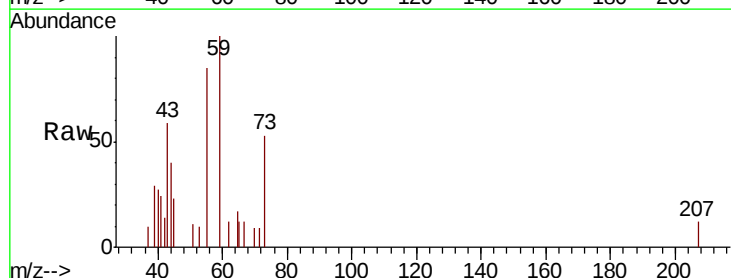


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

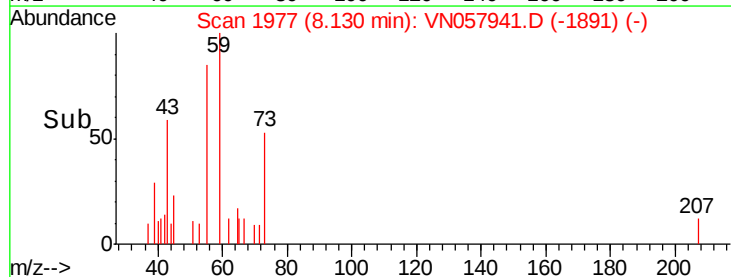
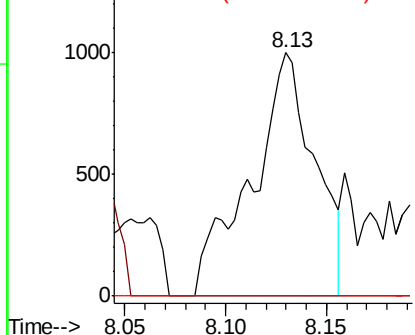


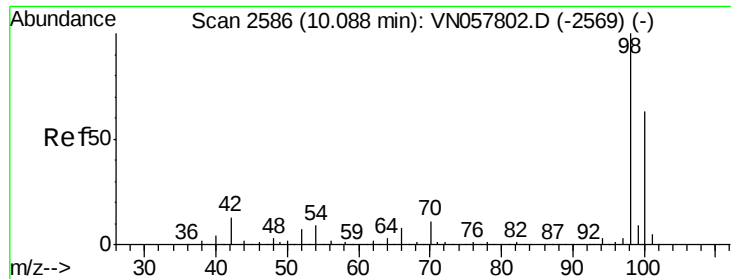
#43
Isopropyl Acetate
Concen: 0.287 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. -0.02 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Tgt Ion: 43 Resp: 2185
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#
87 0.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 0.447 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampled :

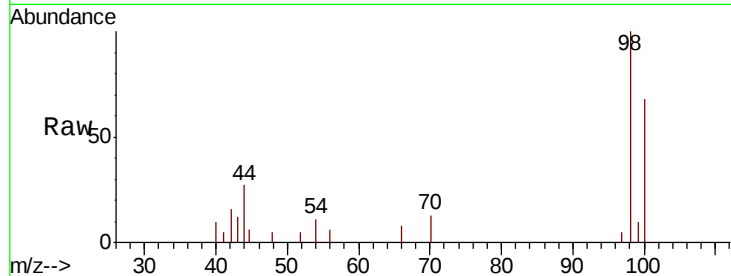
PZ-3

Tgt Ion: 98 Resp: 6042

Ion Ratio Lower Upper

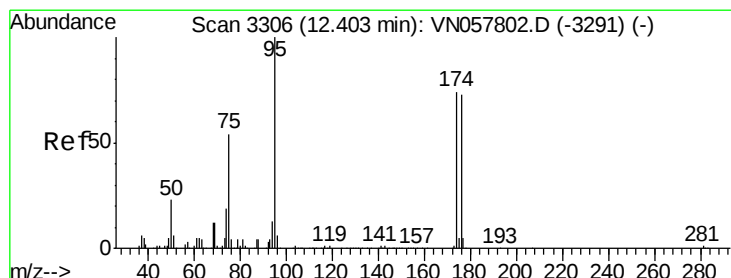
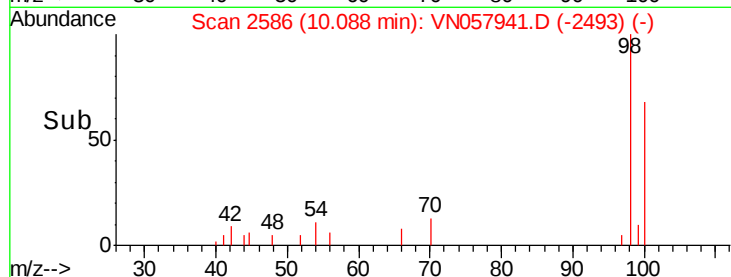
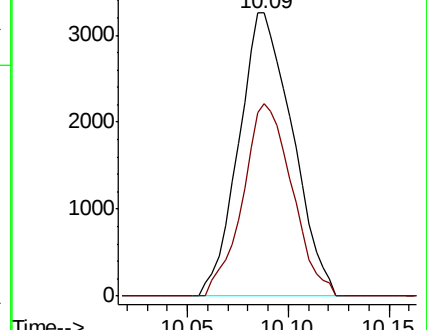
98 100

100 62.5 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)



#62

4-Bromofluorobenzene

Concen: 40.501 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

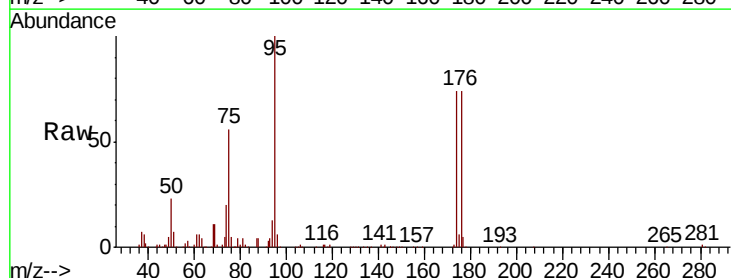
Tgt Ion: 95 Resp: 208682

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.2

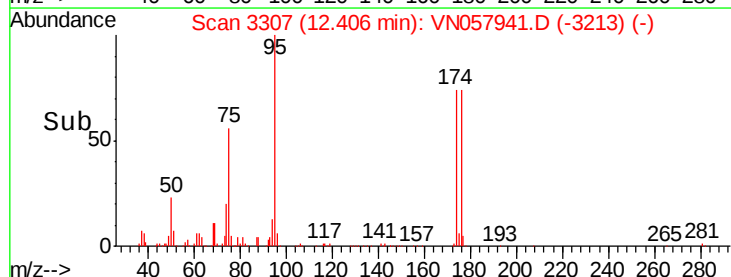
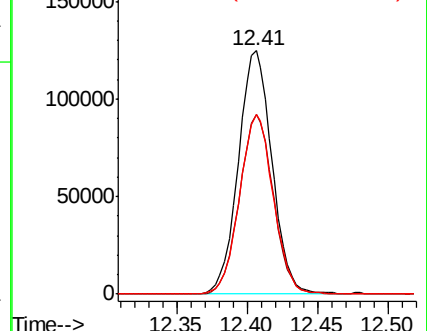
176 73.8 0.0 146.0

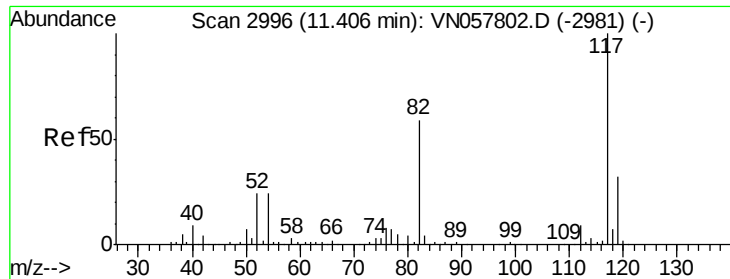


Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

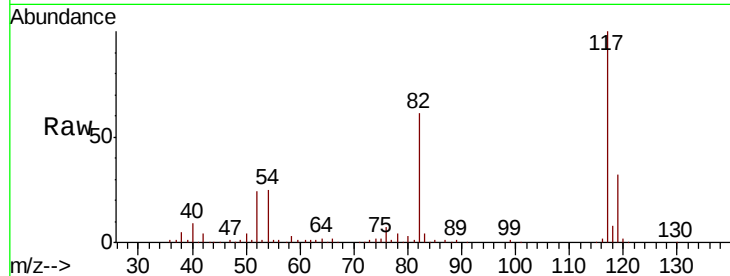




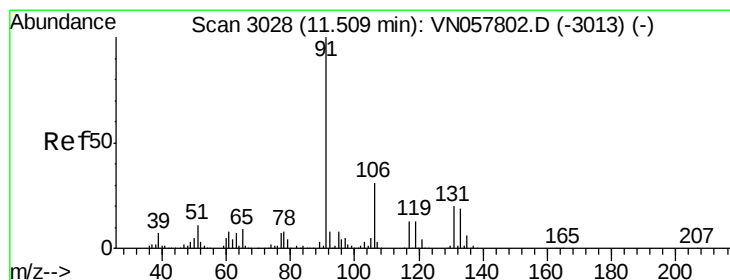
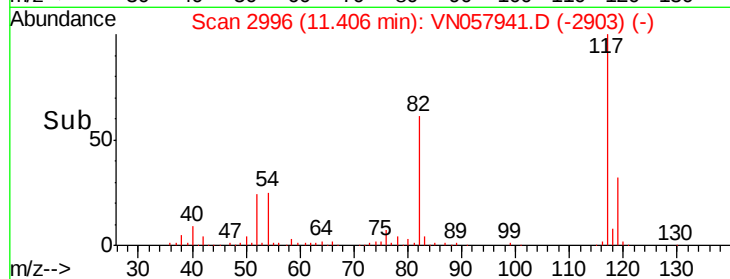
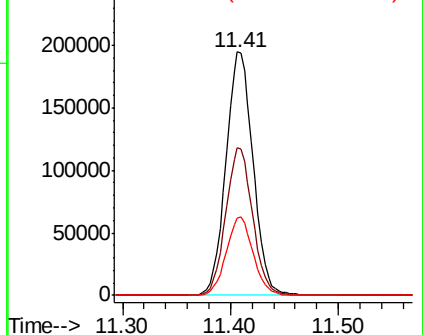
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Instrument :
MSVOA_N
ClientSampled :
PZ-3

Tgt Ion:117 Resp: 341404
Ion Ratio Lower Upper
117 100
82 60.6 47.2 70.8
119 31.9 25.3 37.9

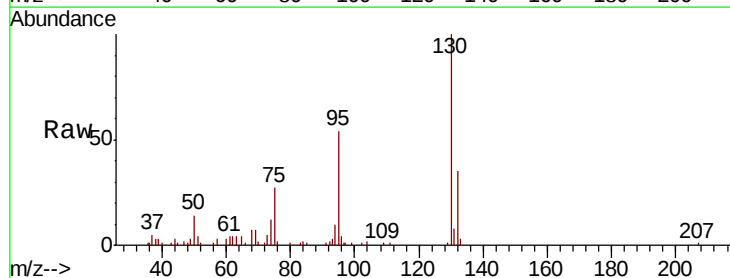


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

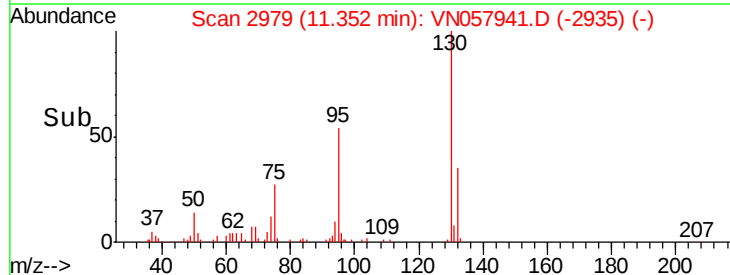
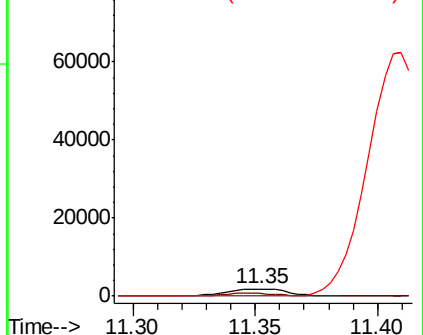


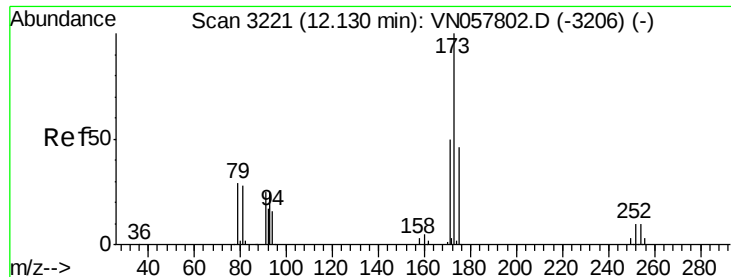
#66
1,1,1,2-Tetrachloroethane
Concen: 0.999 ug/l
RT: 11.35 min Scan# 2979
Delta R.T. -0.16 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Tgt Ion:131 Resp: 3098
Ion Ratio Lower Upper
131 100
133 31.6 47.1 141.3#
119 0.0 33.3 99.8#



Abundance Ion 130.80 (130.50 to 131.50): V
Ion 132.80 (132.50 to 133.50): V
Ion 118.80 (118.50 to 119.50): V





#71

Bromoform

Concen: 0.553 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampleId :

PZ-3

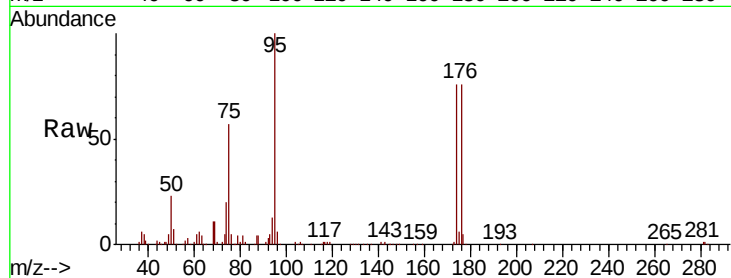
Tgt Ion:173 Resp: 1069

Ion Ratio Lower Upper

173 100

175 961.8 23.5 70.6#

254 0.0 0.1 0.1#

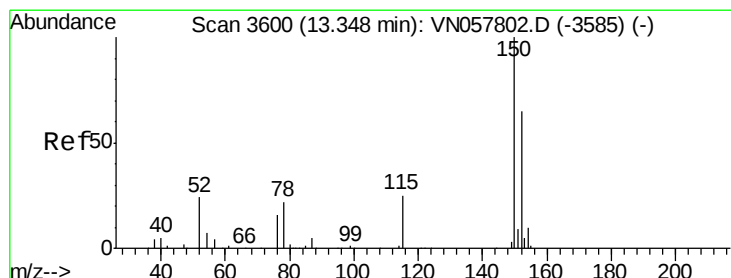
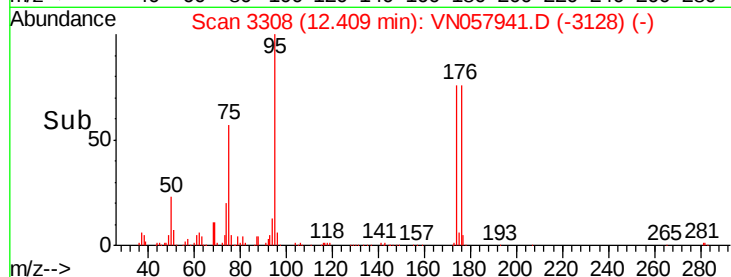
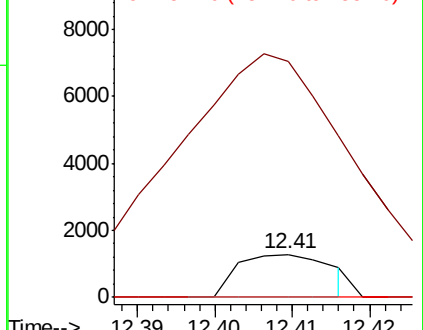


Abundance

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: VN057941.D

Acq: 11 Sep 2019 22:01

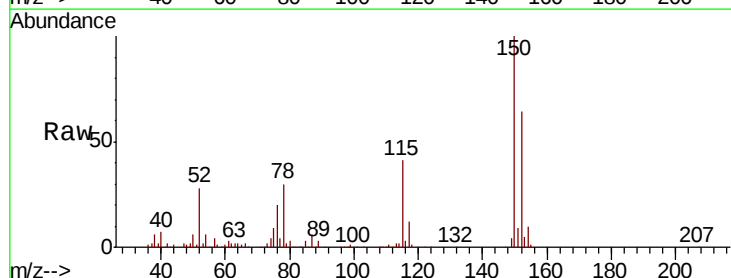
Tgt Ion:152 Resp: 206252

Ion Ratio Lower Upper

152 100

115 62.6 30.3 91.0

150 159.2 0.0 352.4

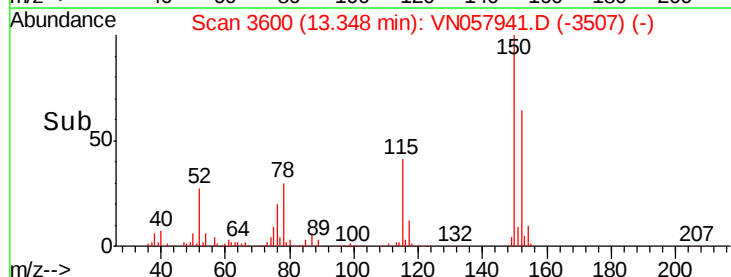
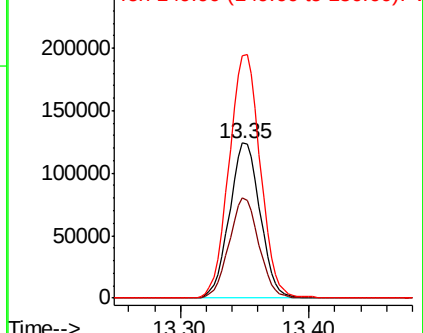


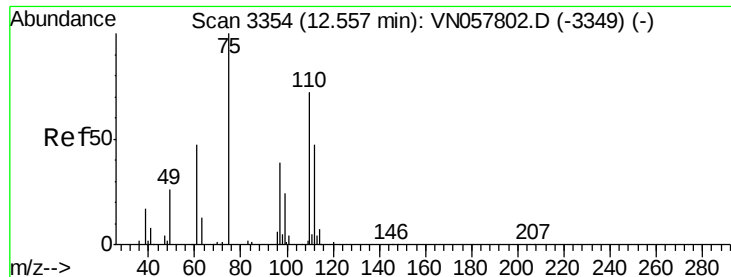
Abundance

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: 25.612 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

Instrument :

MSVOA_N

ClientSampleId :

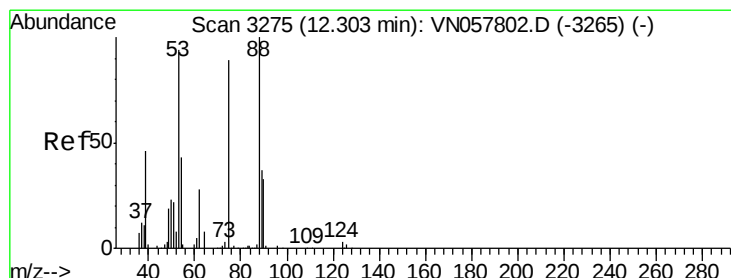
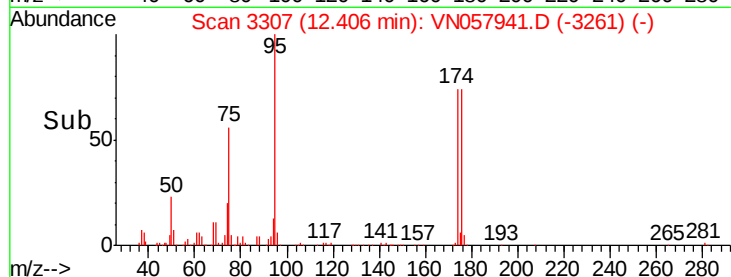
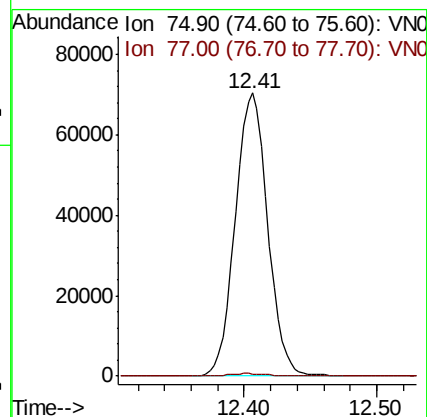
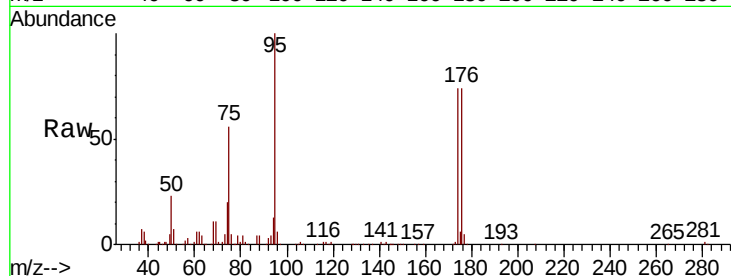
PZ-3

Tgt Ion: 75 Resp: 119501

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.130 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057941.D

Acq: 11 Sep 2019 22:01

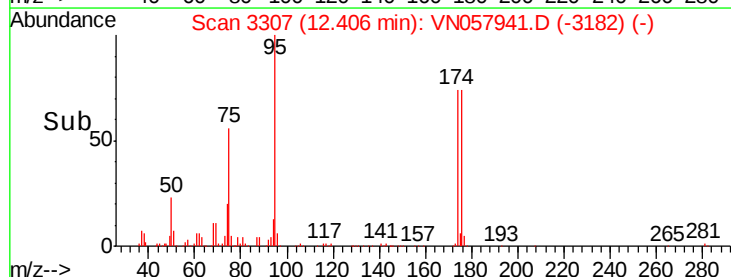
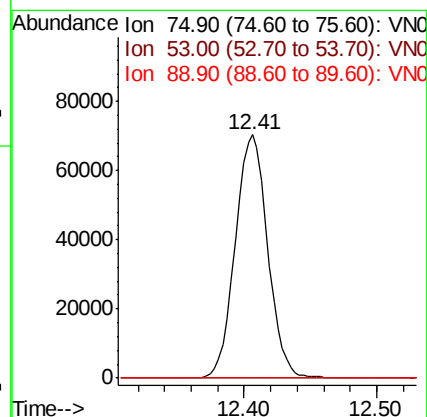
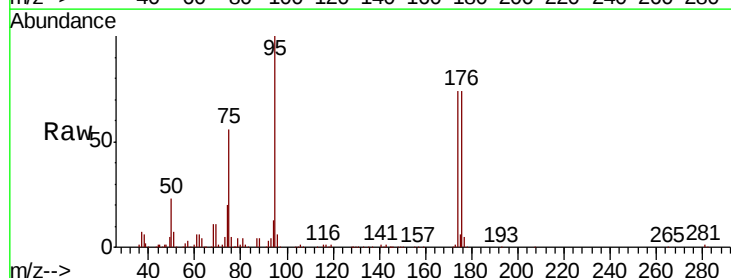
Tgt Ion: 75 Resp: 119501

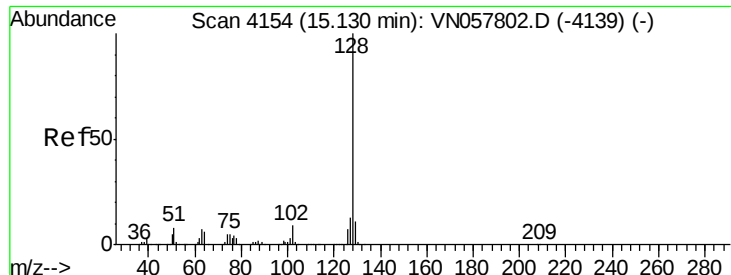
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#

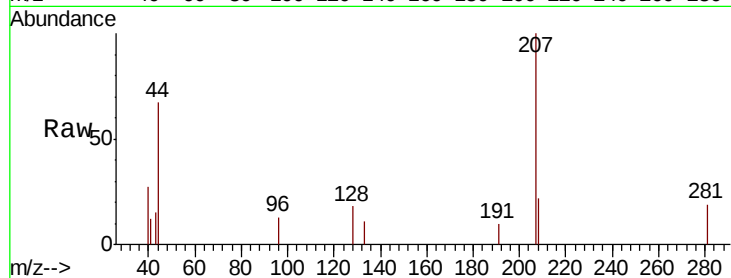




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN057941.D
Acq: 11 Sep 2019 22:01

Instrument :
MSVOA_N
ClientSampleId :
PZ-3

Tgt Ion:128 Resp: 340
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 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

