

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058093.D
 Acq On : 15 Sep 2019 15:44
 Operator : JC/SP
 Sample : K4695-27
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:41:40 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	311256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	522818	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	482376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	252899	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	353311	56.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.08%	
35) Dibromofluoromethane	7.58	113	242717	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.08	98	955064	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	318984	44.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.36%	

Target Compounds

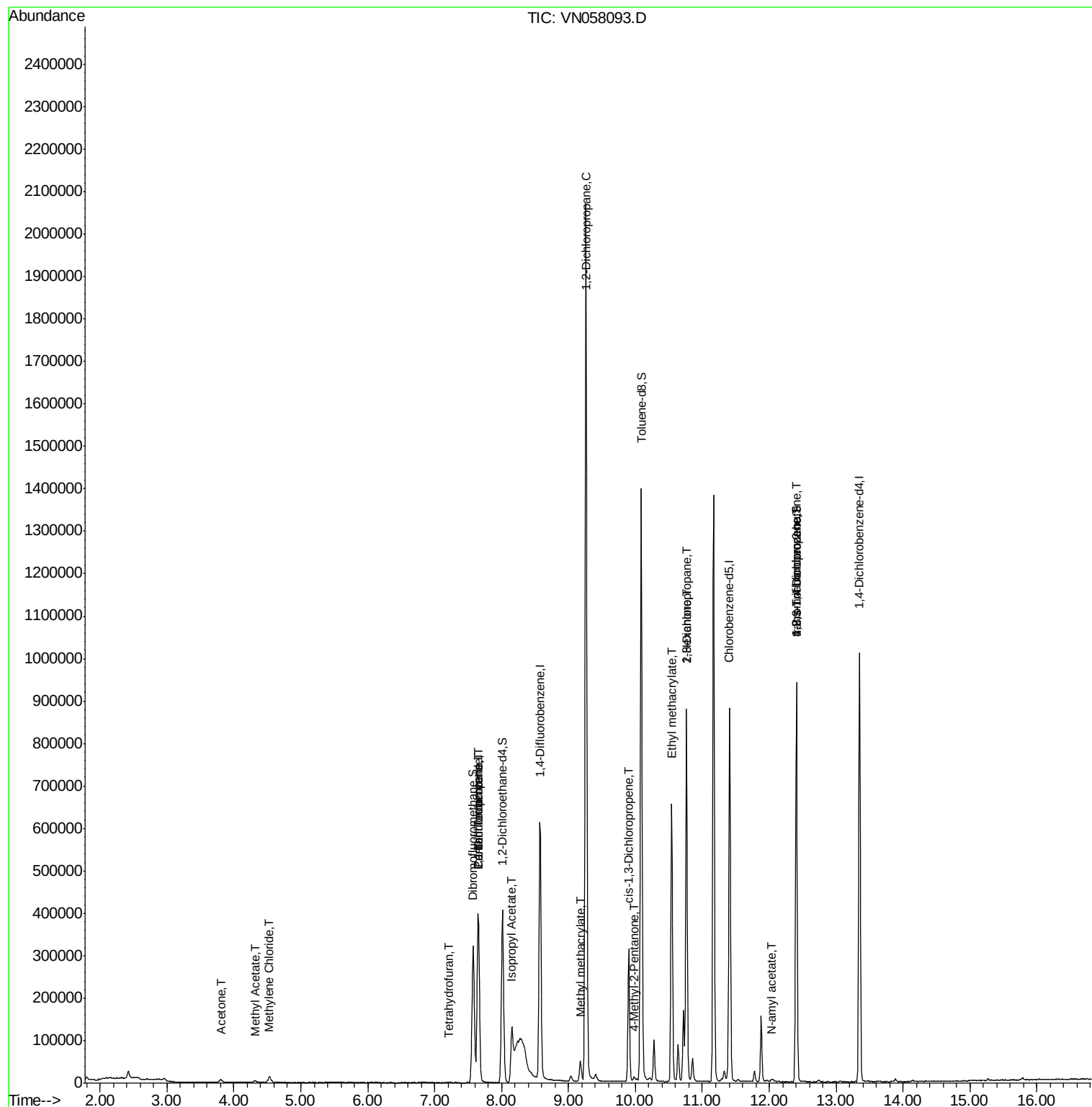
					Qvalue
5) Bromomethane	2.55	94	149	Below Cal	# 2
16) Acetone	3.80	43	12057	5.834	ug/l 99
18) Methyl Acetate	4.32	43	5582	1.013	ug/l # 72
20) Methylene Chloride	4.54	84	9922	1.324	ug/l 94
29) Tetrahydrofuran	7.21	42	1240	0.673	ug/l # 46
31) Cyclohexane	7.64	56	7915	Below Cal	# 35
36) 1,1-Dichloropropene	7.65	75	26195	4.320	ug/l # 52
38) Carbon Tetrachloride	7.65	117	31300	5.654	ug/l # 16
43) Isopropyl Acetate	8.15	43	171190	16.250	ug/l # 82
45) 1,2-Dichloropropane	9.26	63	2585	0.487	ug/l # 44
48) Methyl methacrylate	9.17	41	6279	1.175	ug/l # 13
51) 4-Methyl-2-Pentanone	9.98	43	9060	1.453	ug/l 91
54) cis-1,3-Dichloropropene	9.90	75	52499	7.045	ug/l # 68
56) Ethyl methacrylate	10.54	69	2225	0.303	ug/l # 1
57) 1,3-Dichloropropane	10.76	76	8563	1.020	ug/l # 43
59) 2-Hexanone	10.76	43	131297	28.098	ug/l # 54
74) N-amyl acetate	12.04	43	6248	0.732	ug/l # 50
76) 1,2,3-Trichloropropane	12.40	75	173120	30.260	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.40	75	173120	106.487	ug/l # 6
95) Naphthalene	15.14	128	844	Below Cal	# 69

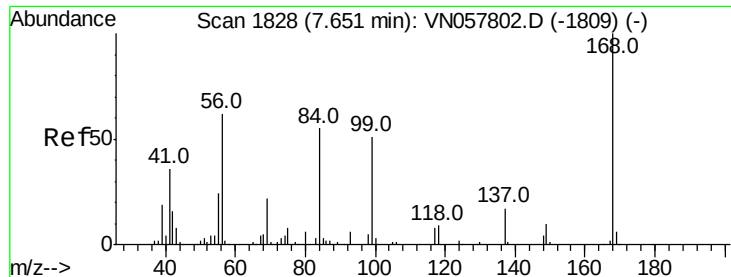
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

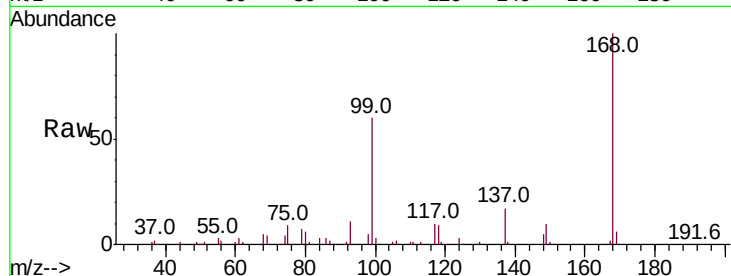
ClientSampled :

Tot Ion:168 Resp: 311256

Ion Ratio Lower Upper

168 100

99 60.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

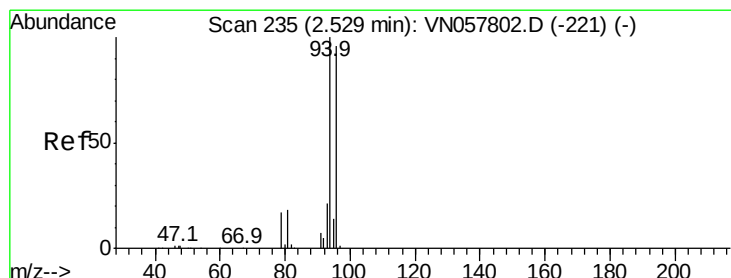
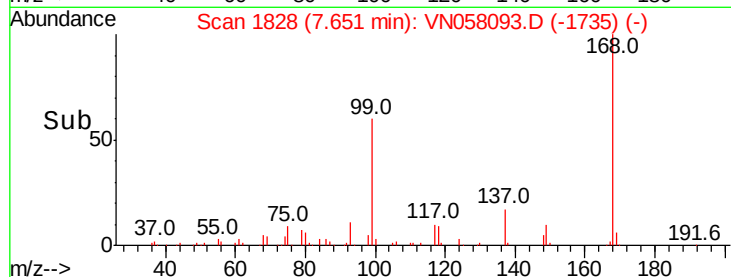
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN058093.D

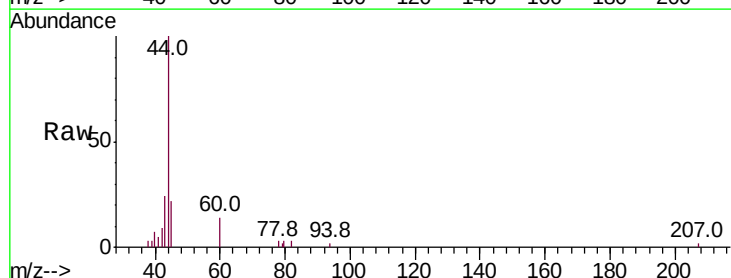
Acq: 15 Sep 2019 15:44

Tgt Ion: 94 Resp: 149

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.55

200

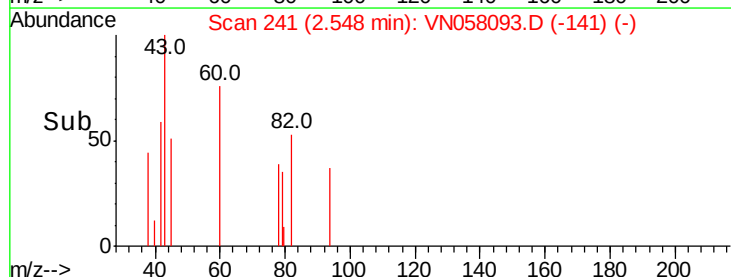
150

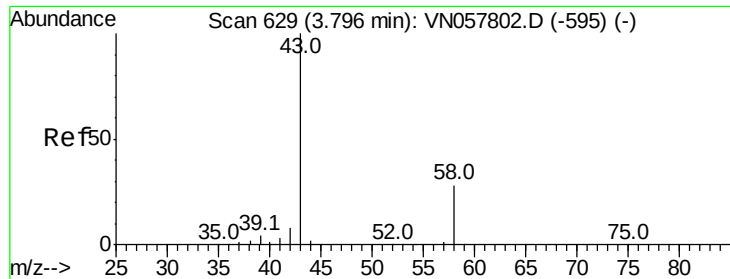
100

50

0

Time-->





#16

Acetone

Concen: 5.834 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

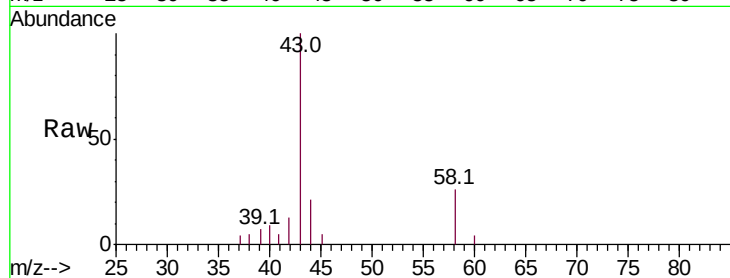
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 12057

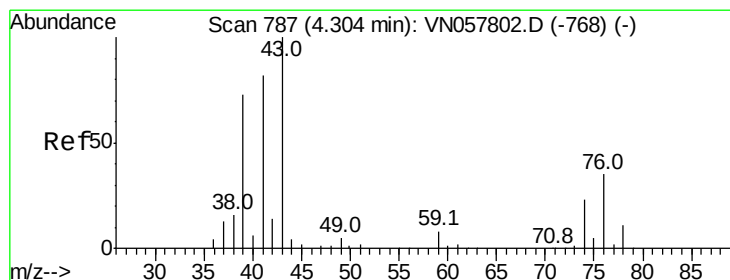
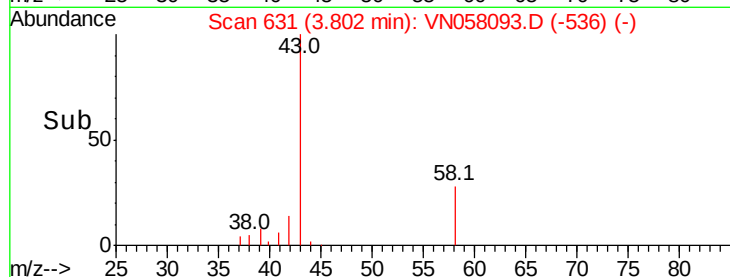
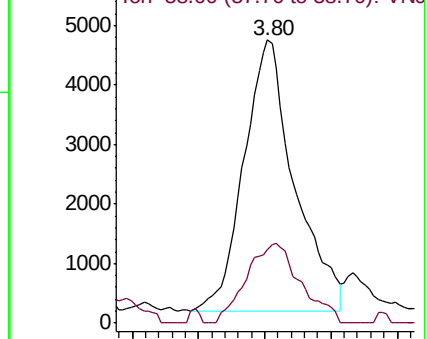
Ion Ratio Lower Upper

43 100

58 27.0 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.013 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058093.D

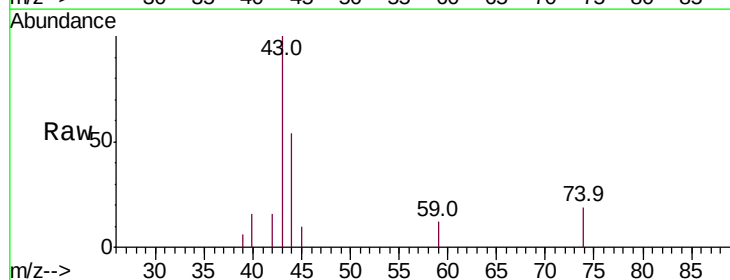
Acq: 15 Sep 2019 15:44

Tgt Ion: 43 Resp: 5582

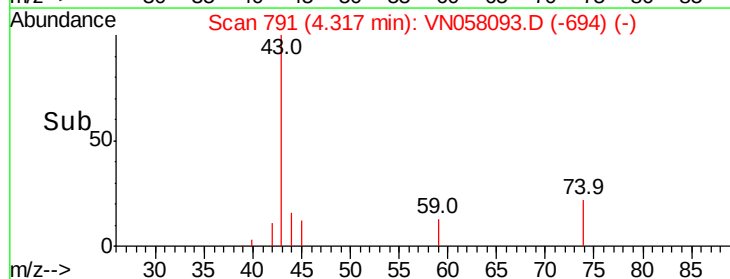
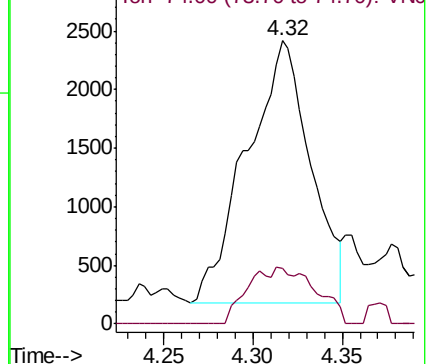
Ion Ratio Lower Upper

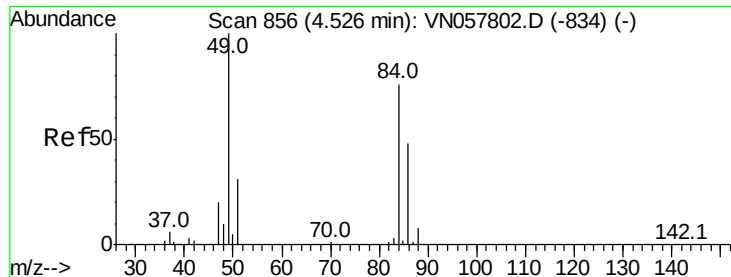
43 100

74 8.8 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0

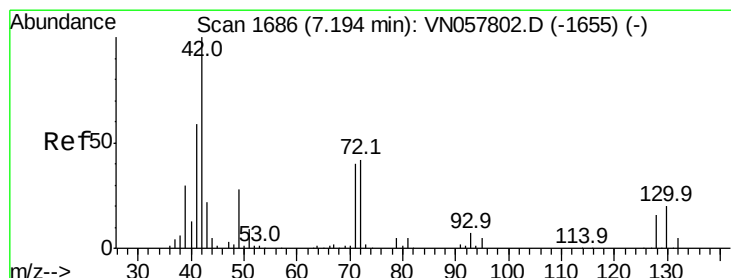
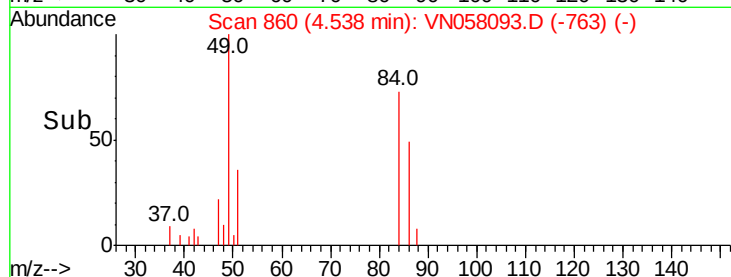
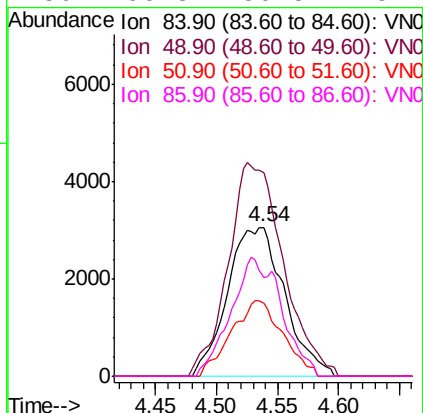
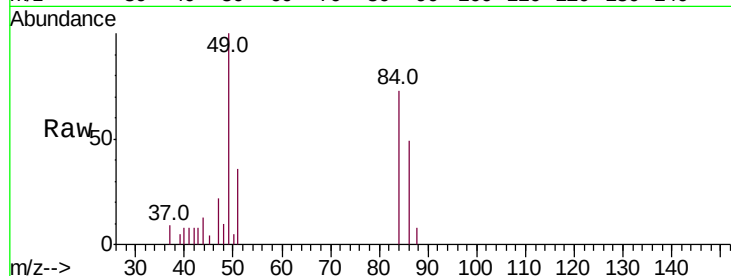




#20
Methvlene Chloride
Concen: 1.324 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

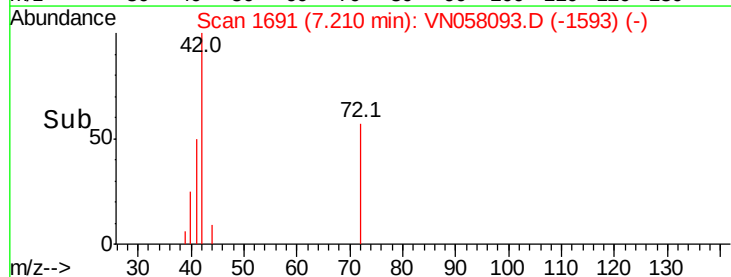
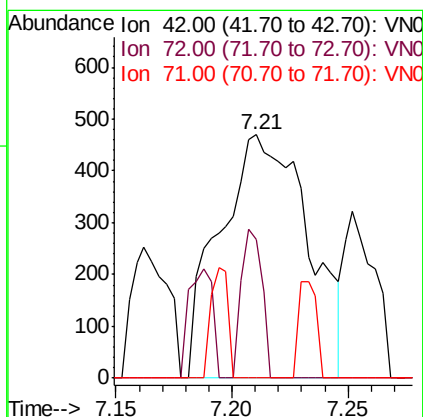
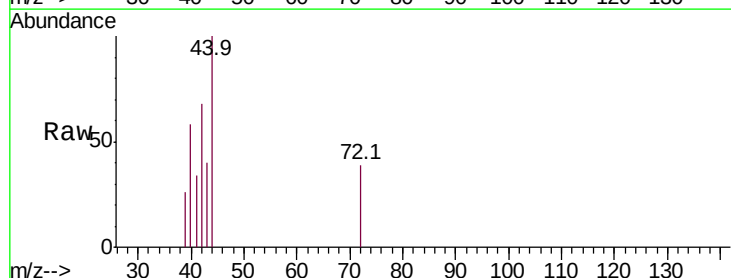
Instrument :
MSVOA_N
ClientSampleId :

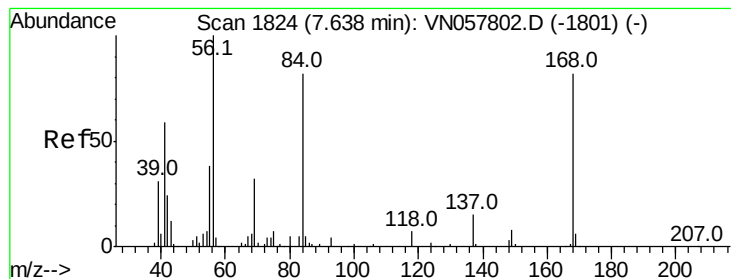
Tot Ion:	84	Resp:	9922
Ion	Ratio	Lower	Upper
84	100		
49	136.7	104.8	157.2
51	49.2	33.0	49.4
86	66.3	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.673 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.02 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

Tgt Ion:	42	Resp:	1240
Ion	Ratio	Lower	Upper
42	100		
72	14.2	33.7	50.5#
71	0.0	31.9	47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

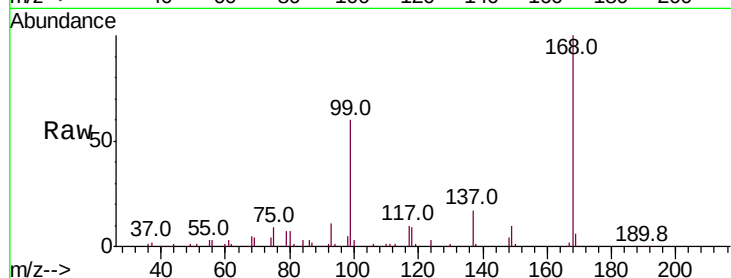
Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

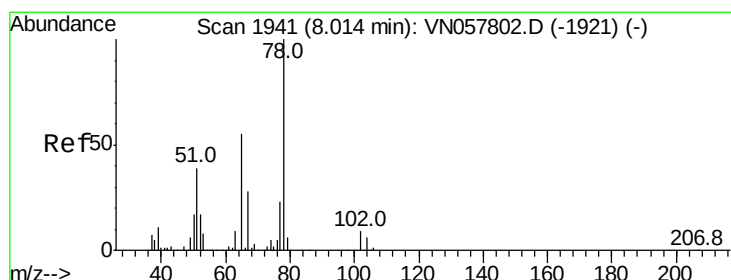
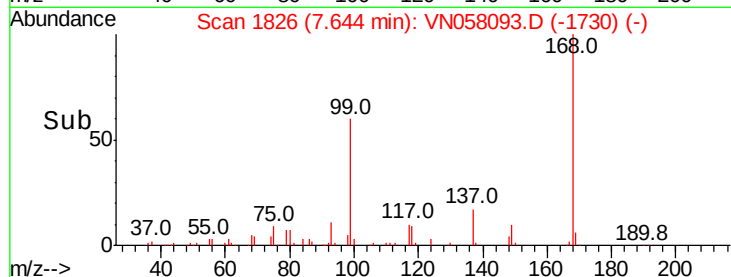
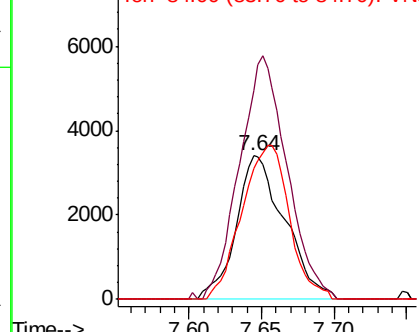
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7915

Ion	Ratio	Lower	Upper
56	100		
69	146.4	25.9	38.9#
84	91.4	65.6	98.4



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



#33

1,2-Dichloroethane-d4

Concen: 56.043 ug/l

RT: 8.01 min Scan# 1941

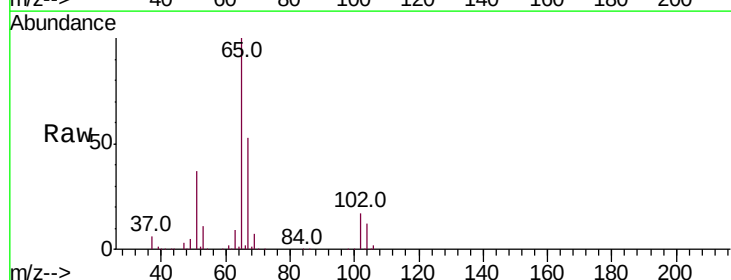
Delta R.T. 0.00 min

Lab File: VN058093.D

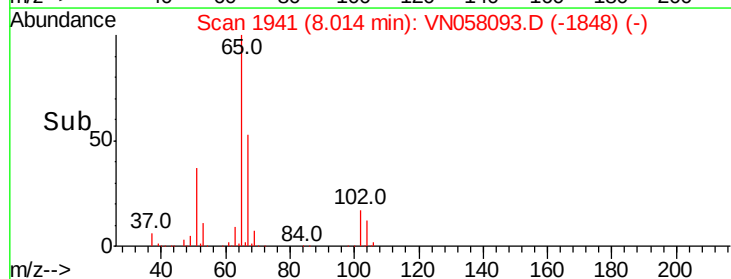
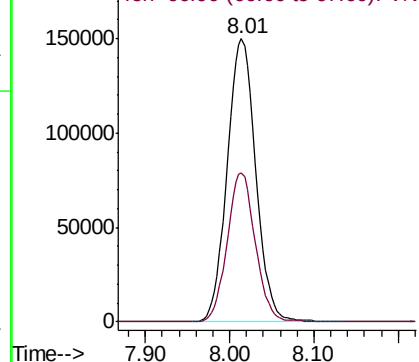
Acq: 15 Sep 2019 15:44

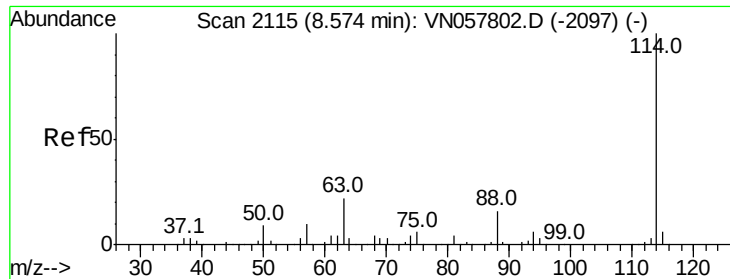
Tgt Ion: 65 Resp: 353311

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.0



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :
MSVOA_N
ClientSampleId :

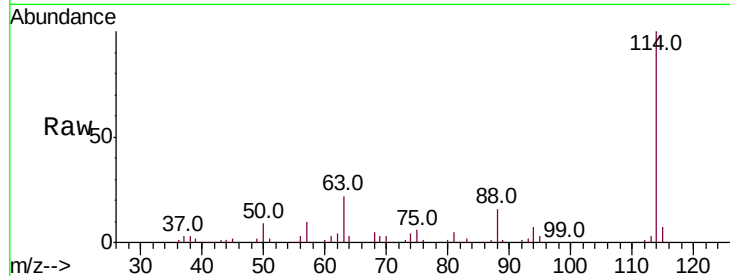
Tot Ion:114 Resp: 522818

Ion Ratio Lower Upper

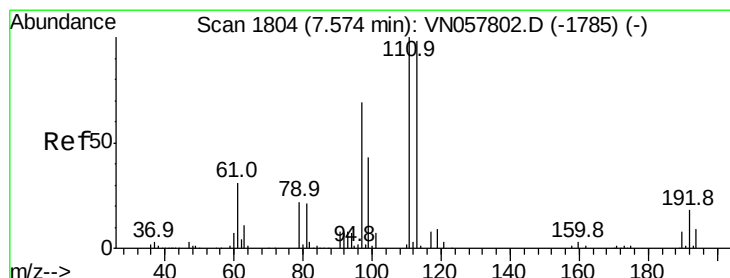
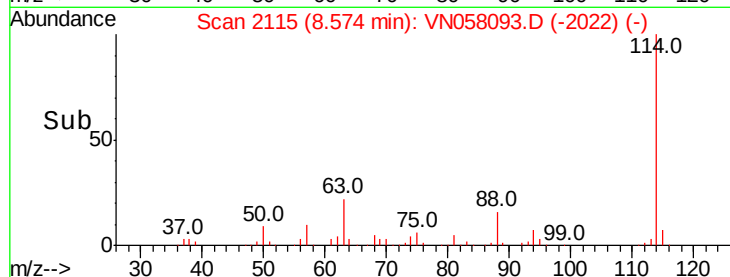
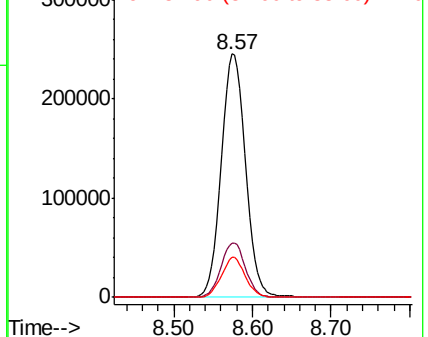
114 100

63 22.3 0.0 44.0

88 16.4 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: 50.300 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

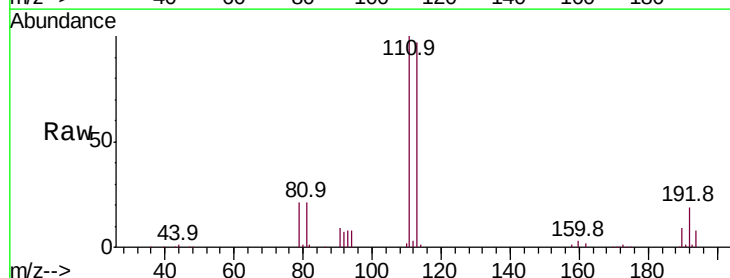
Tgt Ion:113 Resp: 242717

Ion Ratio Lower Upper

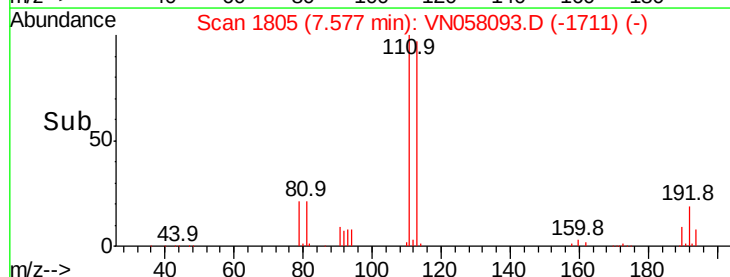
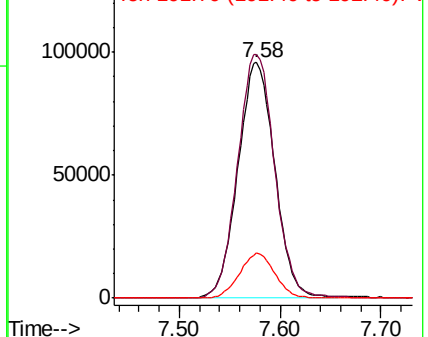
113 100

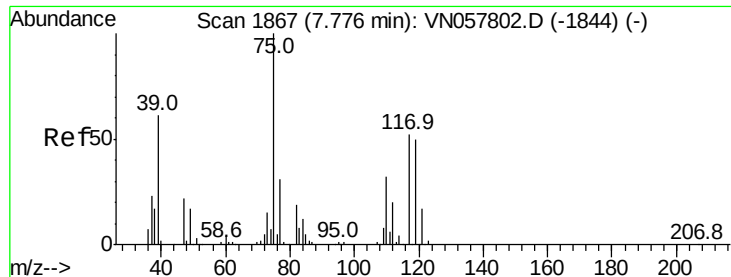
111 104.0 81.3 121.9

192 18.2 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: 4.320 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

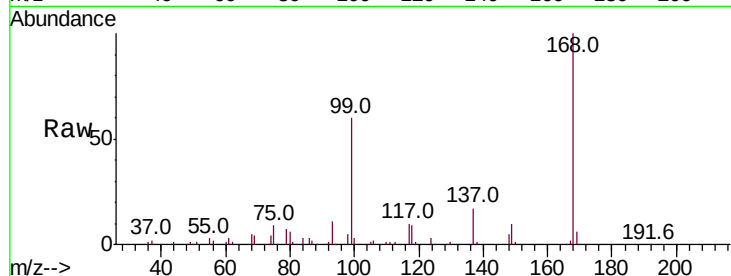
Tot Ion: 75 Resp: 26195

Ion Ratio Lower Upper

75 100

110 9.7 16.3 48.9#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

7.65

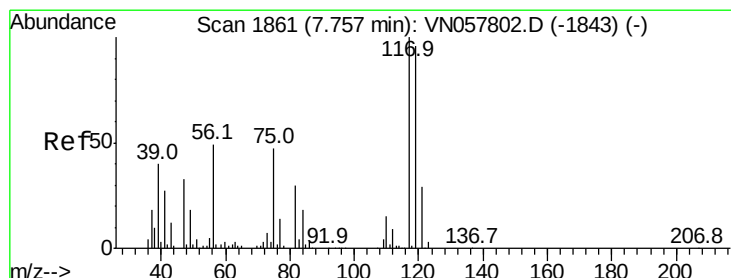
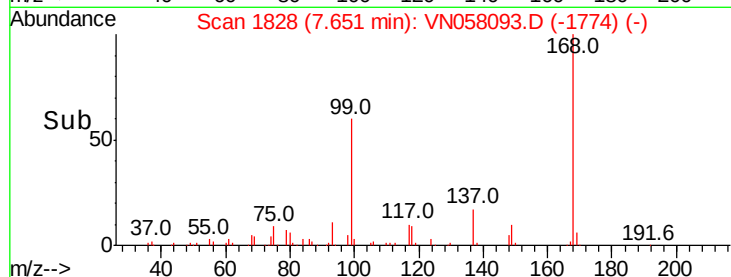
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 5.654 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

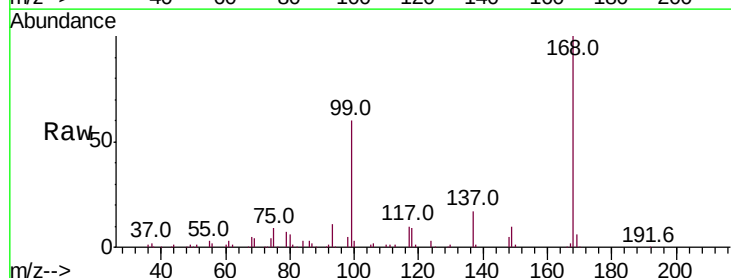
Tgt Ion: 117 Resp: 31300

Ion Ratio Lower Upper

117 100

119 4.8 76.9 115.3#

121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)

7.65

15000

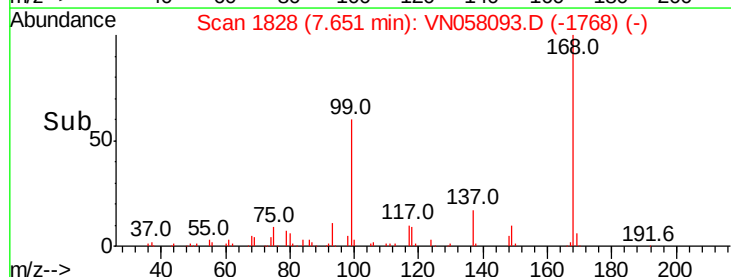
10000

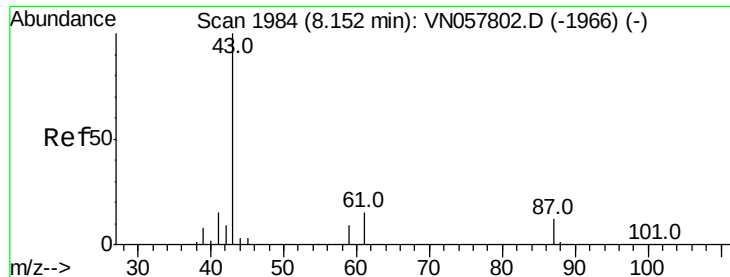
5000

0

7.55 7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 16.250 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. -0.00 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

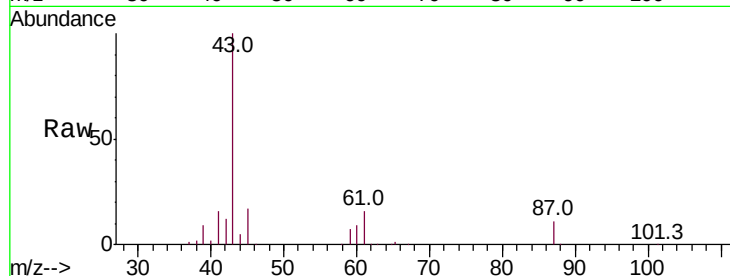
Tot Ion: 43 Resp: 171190

Ion Ratio Lower Upper

43 100

61 13.7 20.1 30.1#

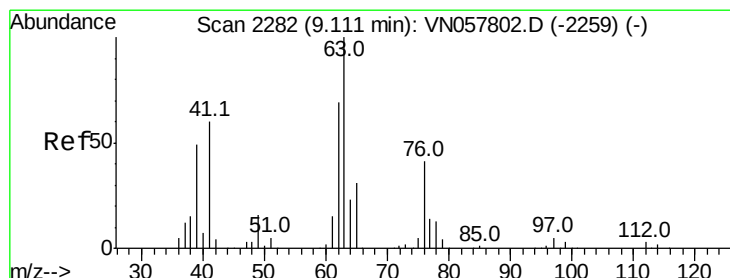
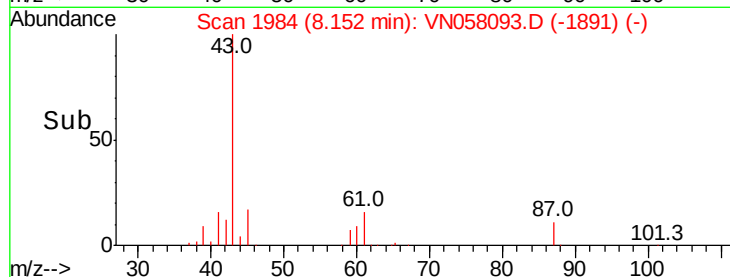
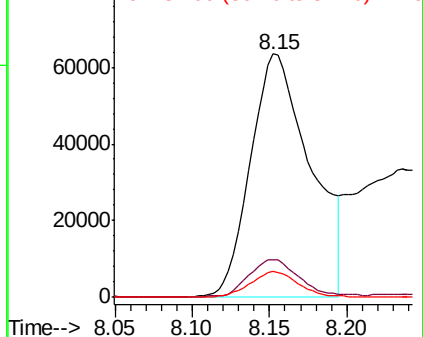
87 8.6 9.5 14.3#



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



#45

1,2-Dichloropropane

Concen: 0.487 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058093.D

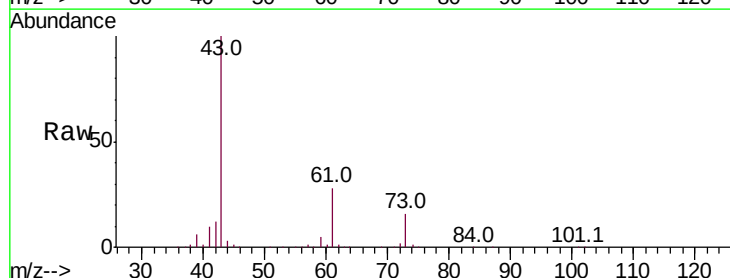
Acq: 15 Sep 2019 15:44

Tgt Ion: 63 Resp: 2585

Ion Ratio Lower Upper

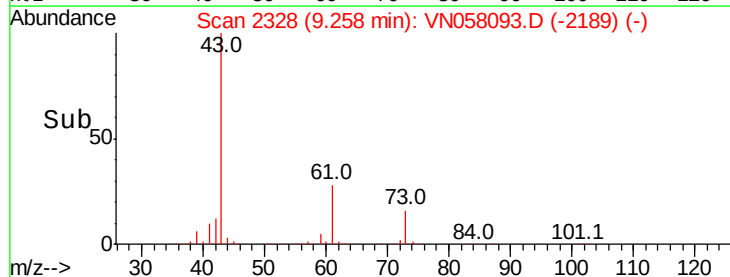
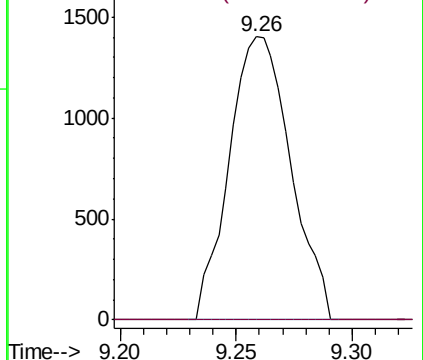
63 100

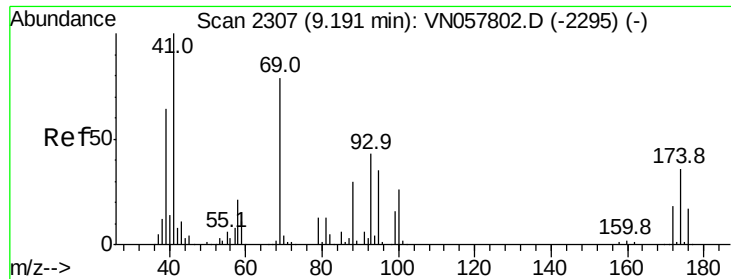
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

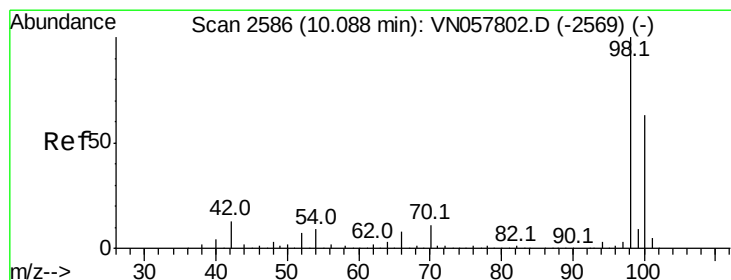
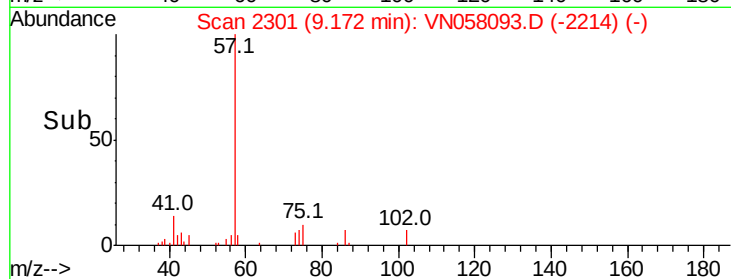
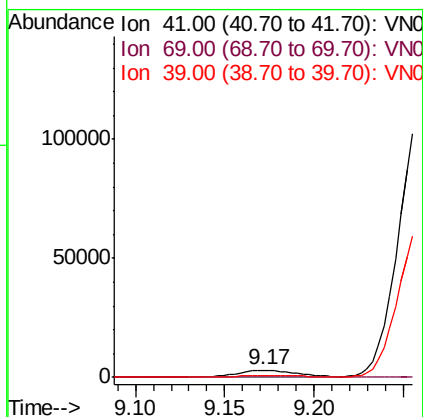
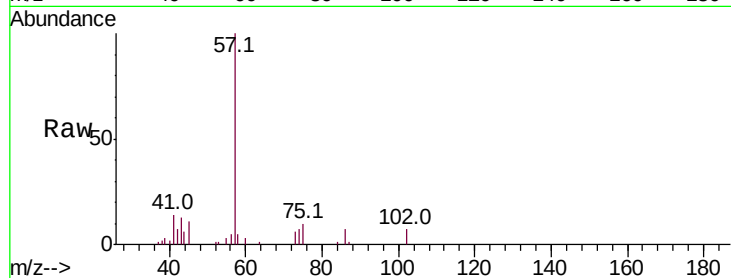




#48
Methvl methacrylate
Concen: 1.175 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

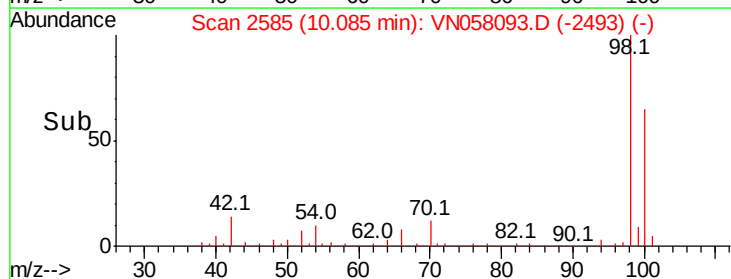
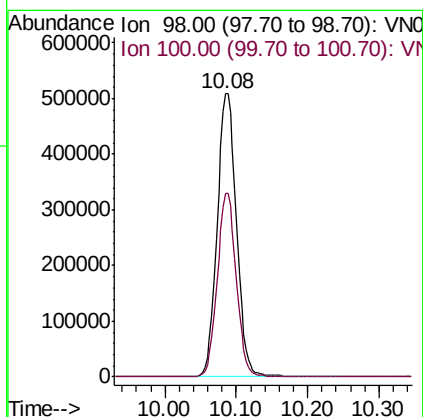
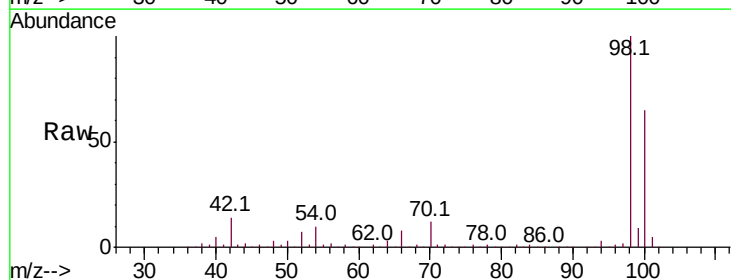
Instrument :
MSVOA_N
ClientSampled :

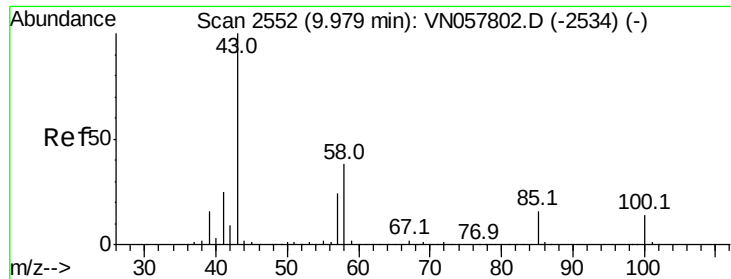
Tot Ion: 41 Resp: 6279
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#50
Toluene-d8
Concen: 50.978 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

Tgt Ion: 98 Resp: 955064
Ion Ratio Lower Upper
98 100
100 63.4 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.453 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

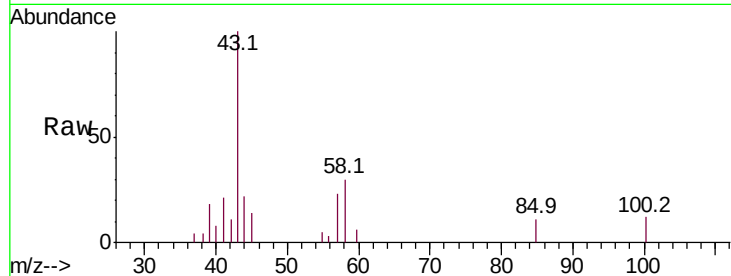
ClientSampled :

Tot Ion: 43 Resp: 9060

Ion Ratio Lower Upper

43 100

58 31.9 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

25000

20000

15000

10000

5000

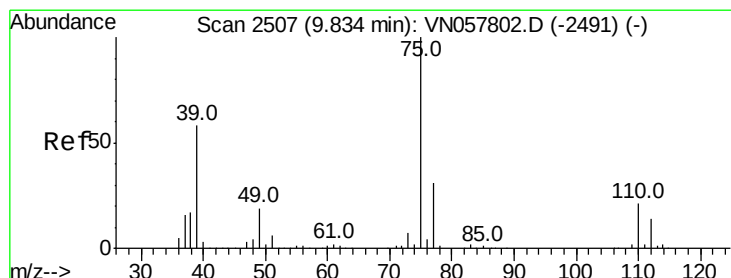
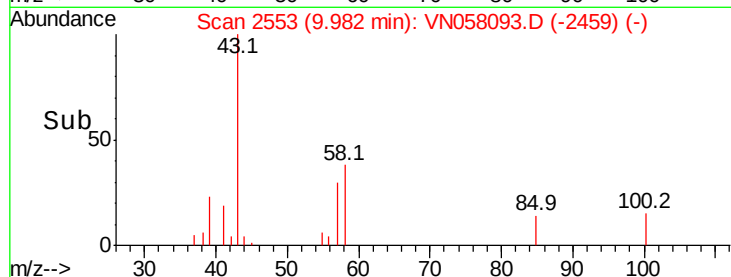
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.045 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

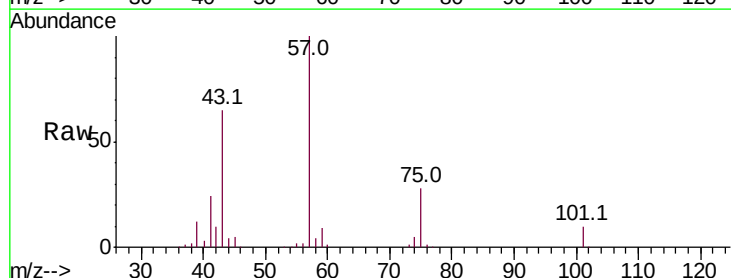
Tgt Ion: 75 Resp: 52499

Ion Ratio Lower Upper

75 100

77 0.6 24.8 37.2#

39 43.1 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

40000

30000

20000

10000

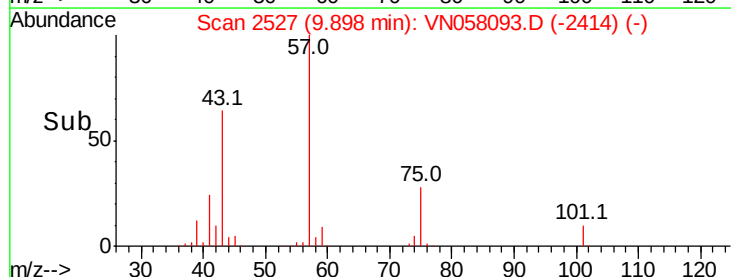
0

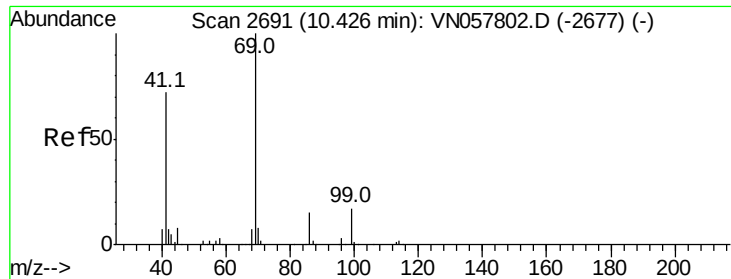
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.303 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

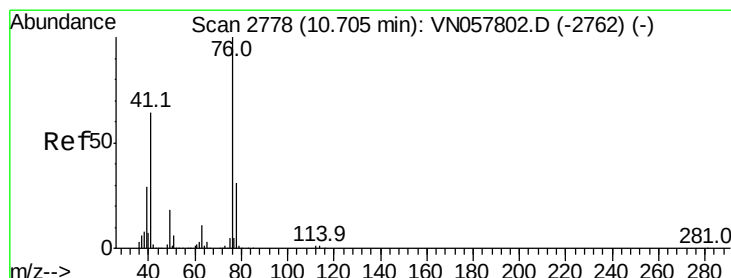
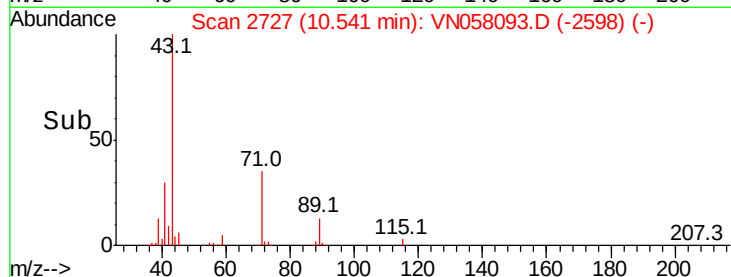
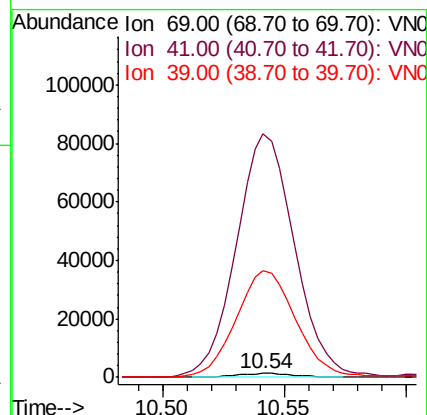
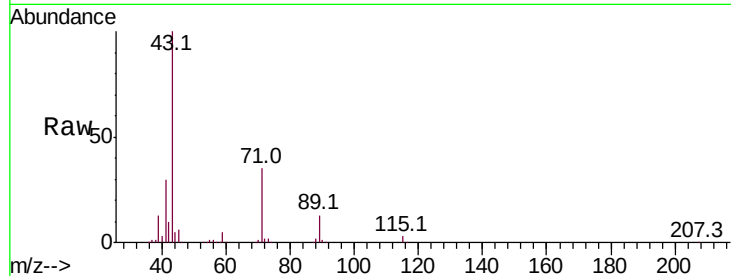
Tot Ion: 69 Resp: 2225

Ion Ratio Lower Upper

69 100

41 6243.5 56.7 85.1#

39 2808.4 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 1.020 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058093.D

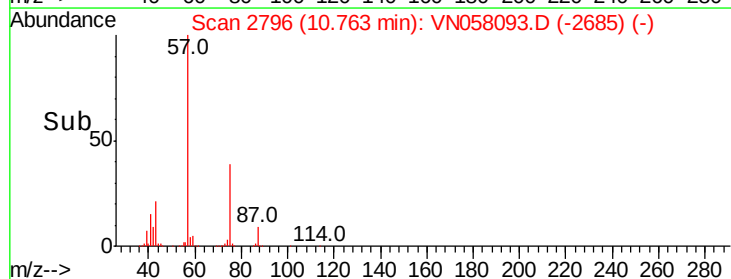
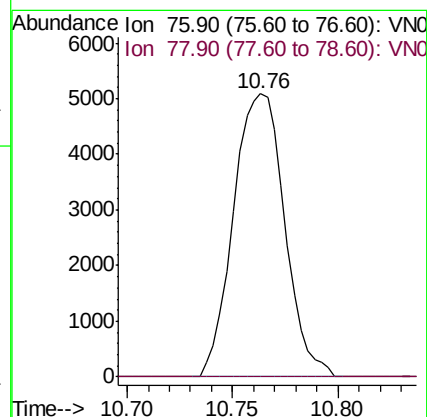
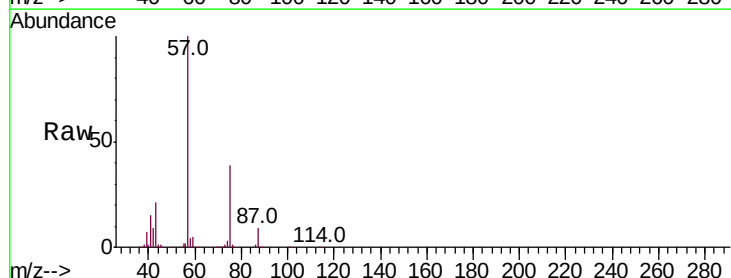
Acq: 15 Sep 2019 15:44

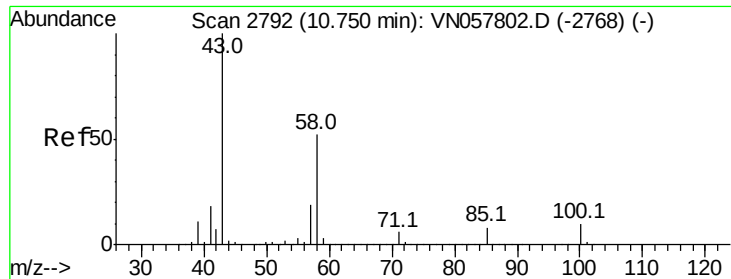
Tgt Ion: 76 Resp: 8563

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

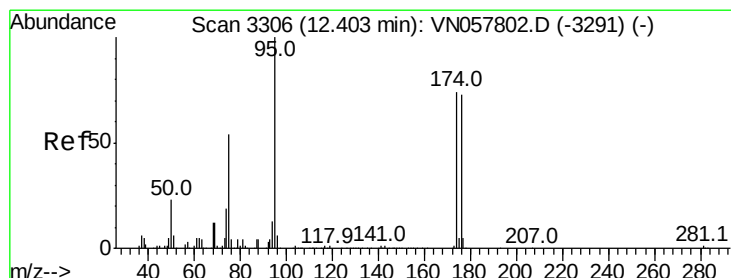
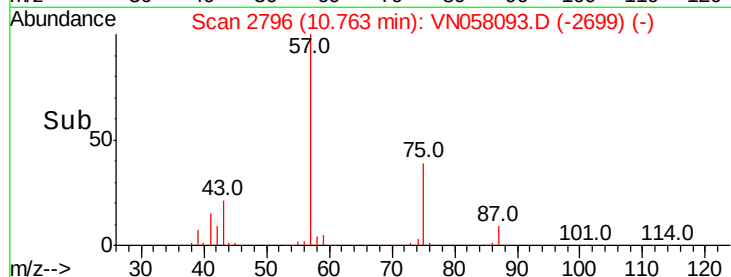
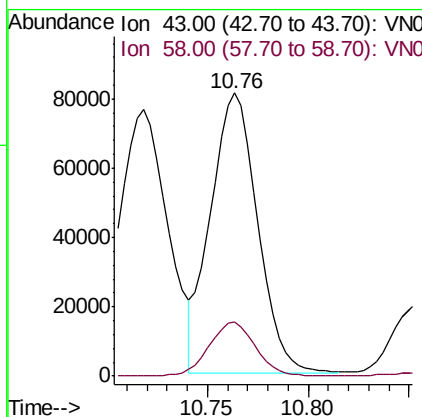
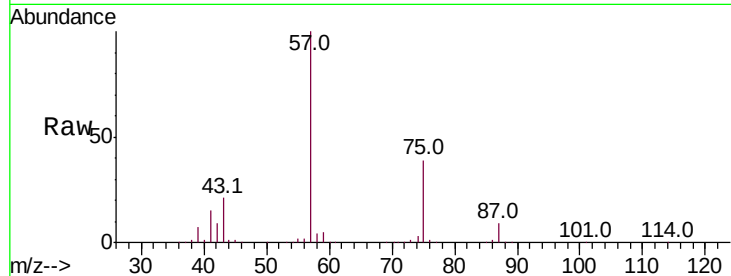




#59
2-Hexanone
Concen: 28.098 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

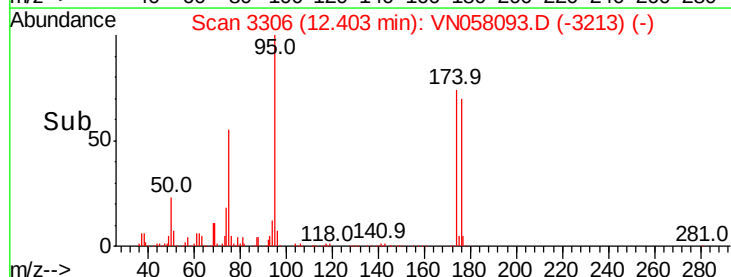
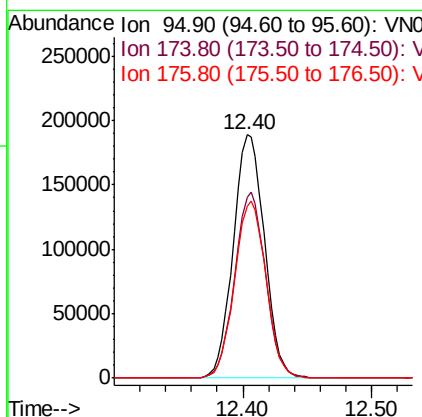
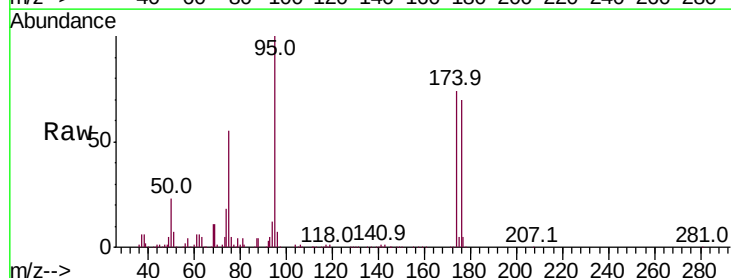
Instrument :
MSVOA_N
ClientSampled :

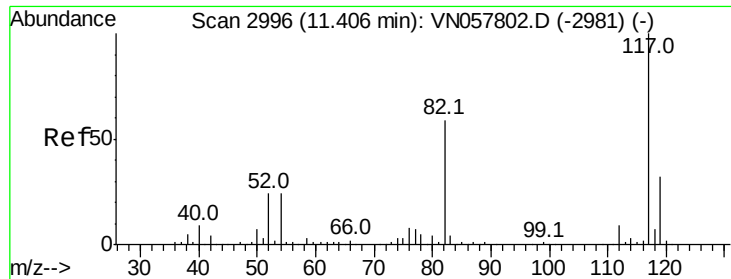
Tot Ion: 43 Resp: 131297
Ion Ratio Lower Upper
43 100
58 19.1 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 44.678 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

Tgt Ion: 95 Resp: 318984
Ion Ratio Lower Upper
95 100
174 75.1 0.0 150.2
176 73.1 0.0 146.0

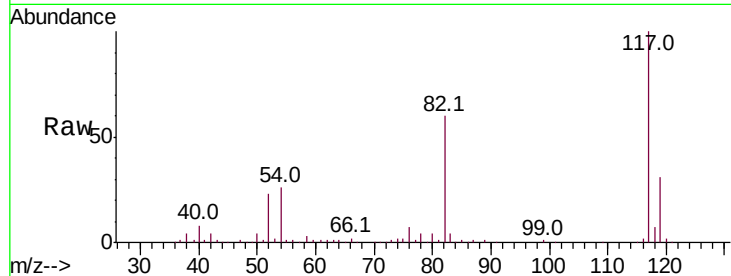




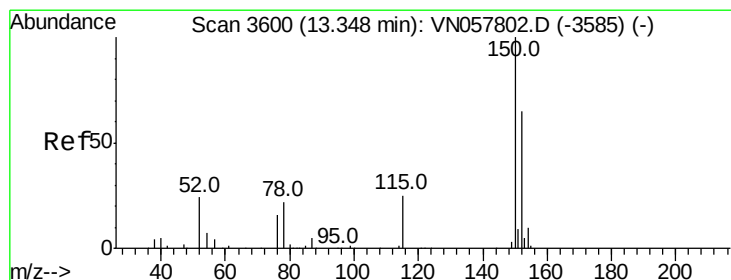
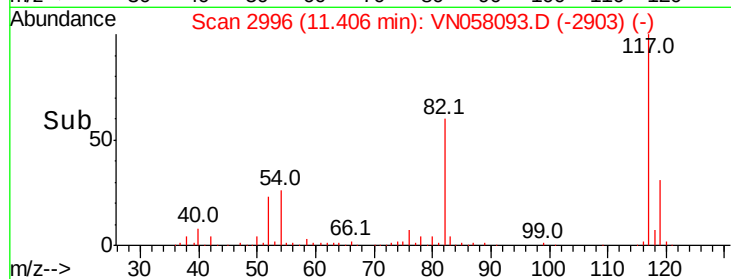
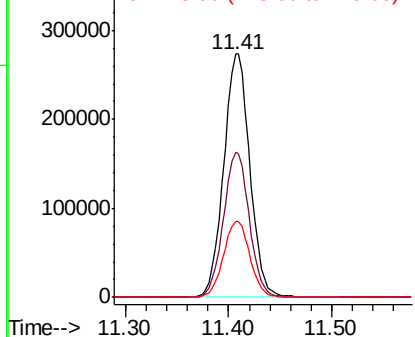
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 482376
Ion Ratio Lower Upper
117 100
82 59.7 47.2 70.8
119 31.2 25.3 37.9

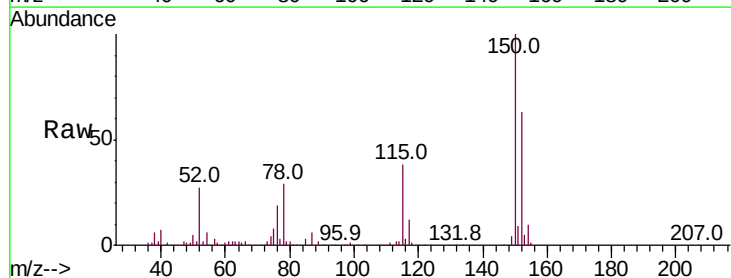


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

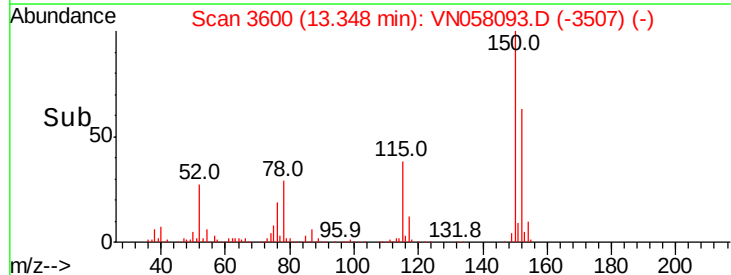
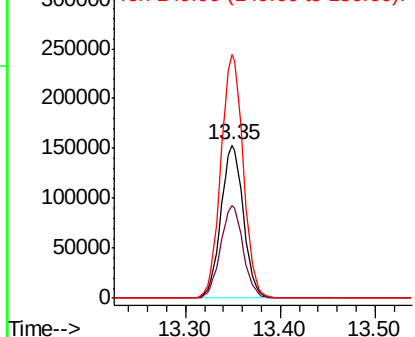


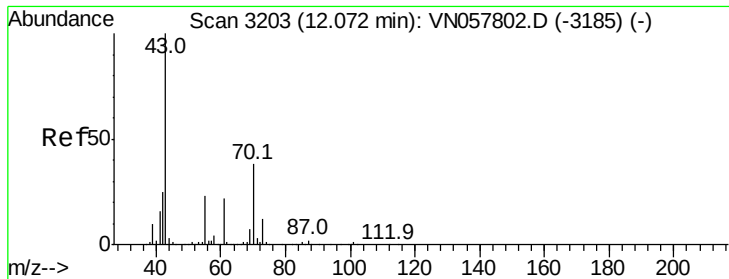
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058093.D
Acq: 15 Sep 2019 15:44

Tgt Ion:152 Resp: 252899
Ion Ratio Lower Upper
152 100
115 60.5 30.3 91.0
150 158.3 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





#74

N-amvl acetate

Concen: 0.732 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 6248

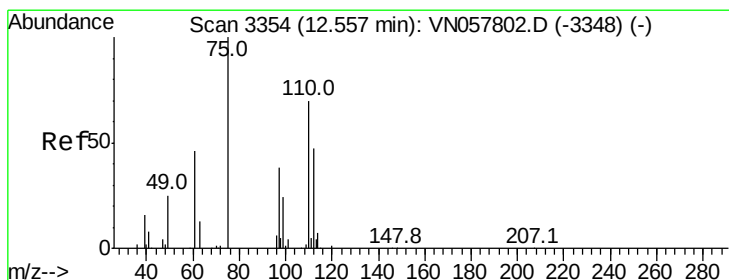
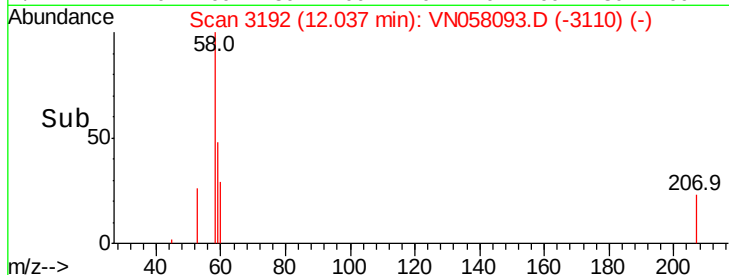
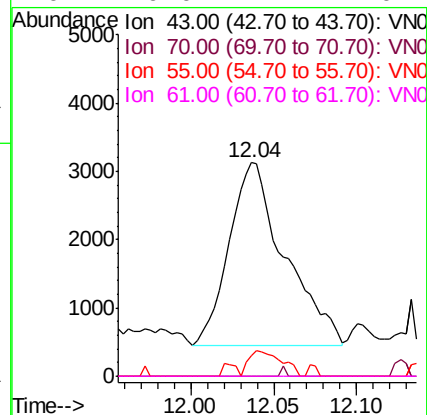
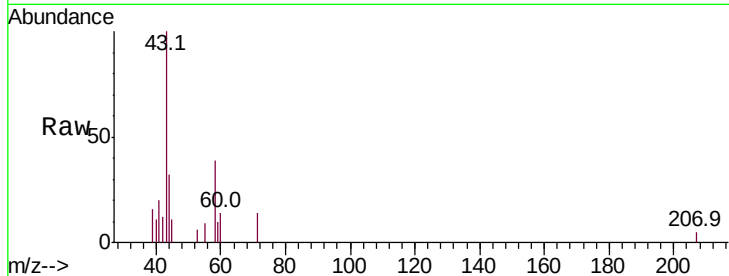
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 8.2 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.260 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058093.D

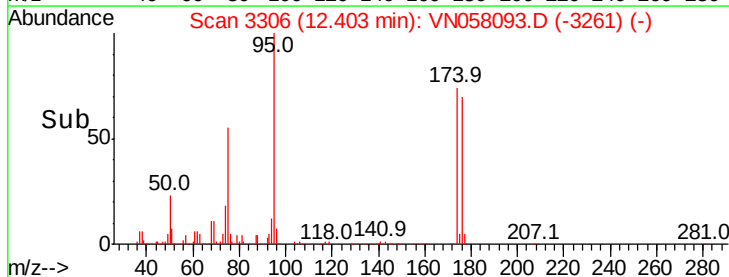
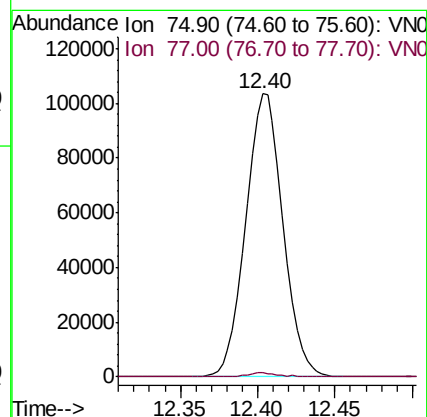
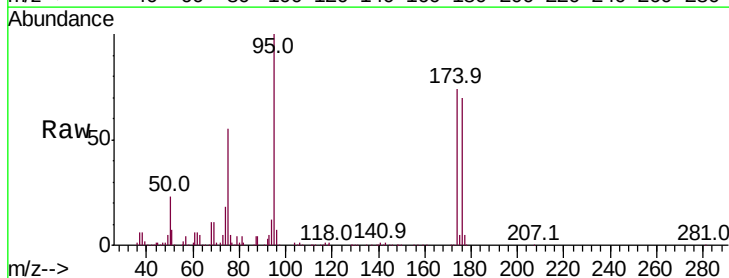
Acq: 15 Sep 2019 15:44

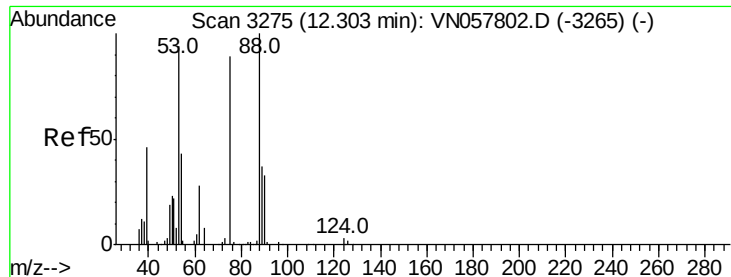
Tgt Ion: 75 Resp: 173120

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 106.487 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

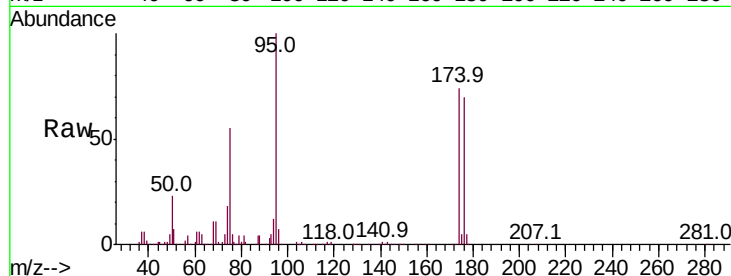
Tot Ion: 75 Resp: 173120

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

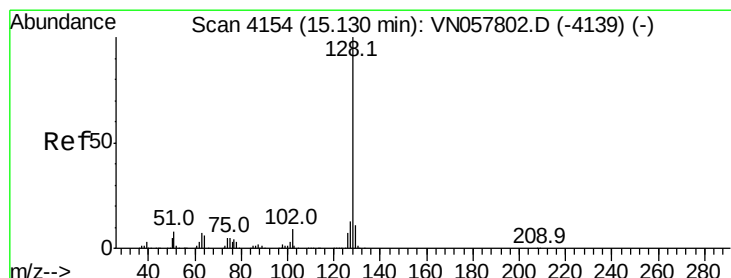
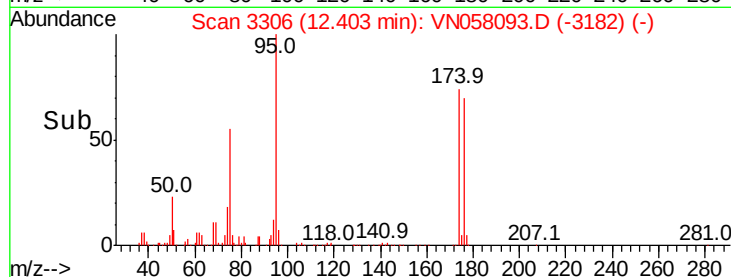
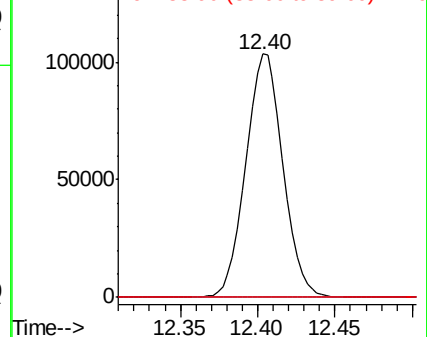
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN058093.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058093.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058093.D (-3306) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058093.D

Acq: 15 Sep 2019 15:44

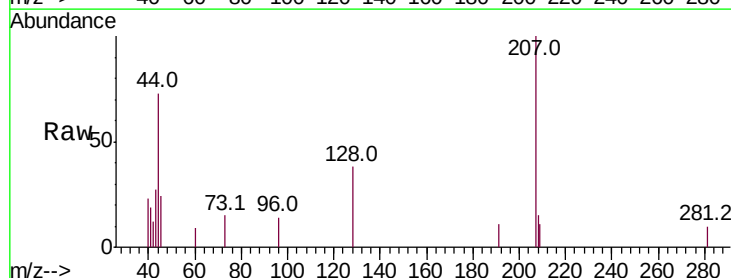
Tgt Ion: 128 Resp: 844

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): VN058093.D (-4157) (-)

Ion 127.00 (126.70 to 127.70): VN058093.D (-4157) (-)

Ion 129.00 (128.70 to 129.70): VN058093.D (-4157) (-)

