

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057843.D
 Acq On : 10 Sep 2019 7:58
 Operator : JC/SP
 Sample : K4622-28
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 08:45:11 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	293614	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	514641	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	237263	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	335157	56.36	ug/l	0.00
Spiked Amount			Recovery	=	112.72%	
35) Dibromofluoromethane	7.58	113	232372	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	10.09	98	949789	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.40	95	306539	43.62	ug/l	0.00
Spiked Amount			Recovery	=	87.24%	

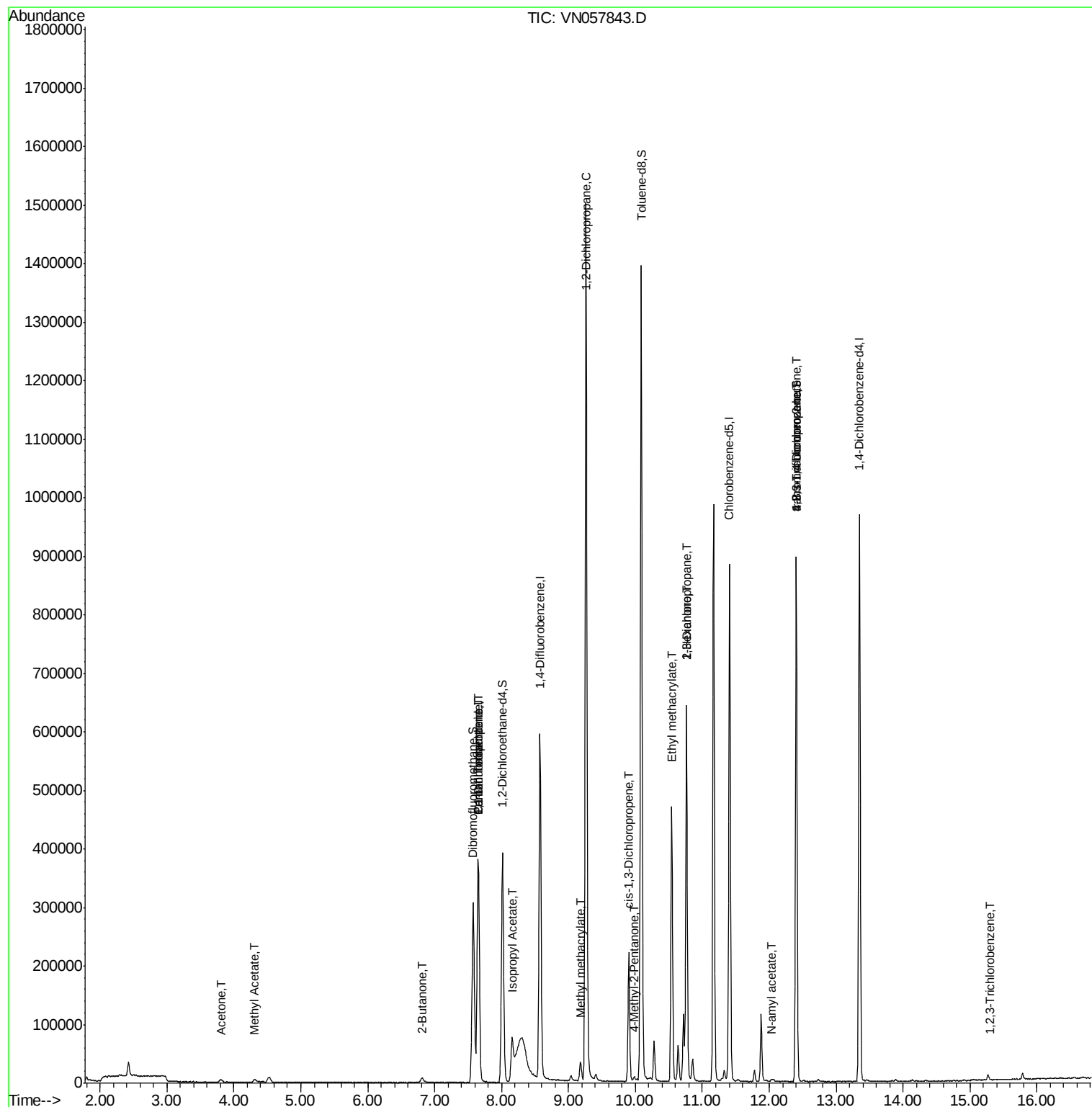
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	29	Below Cal	#	2
16) Acetone	3.81	43	8684	4.454	ug/l #	88
18) Methyl Acetate	4.31	43	9110	1.753	ug/l #	66
20) Methylene Chloride	4.52	84	3397	Below Cal	#	83
25) 2-Butanone	6.82	43	960	0.340	ug/l #	49
31) Cyclohexane	7.65	56	7977	Below Cal	#	29
36) 1,1-Dichloropropene	7.65	75	26835	4.496	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31213	5.728	ug/l #	16
43) Isopropyl Acetate	8.16	43	105472	10.171	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1746	0.334	ug/l #	44
48) Methyl methacrylate	9.17	41	4672	0.888	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	3914	0.638	ug/l #	71
54) cis-1,3-Dichloropropene	9.90	75	37179	5.068	ug/l #	67
56) Ethyl methacrylate	10.54	69	1571	0.218	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6137	0.743	ug/l #	43
59) 2-Hexanone	10.76	43	97619	21.223	ug/l #	52
74) N-amyl acetate	12.03	43	4750	0.593	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	166264	30.977	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166264	109.009	ug/l #	6
95) Naphthalene	15.14	128	939	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	113	1.021	ug/l #	32

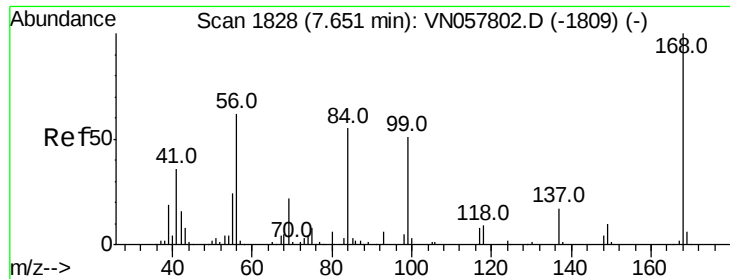
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091019\
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Acq On : 10 Sep 2019 7:58
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Instrument :
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ClientSampleId :

Quant Time: Sep 10 08:45:11 2019
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: VN057843.D

Acq: 10 Sep 2019 7:58

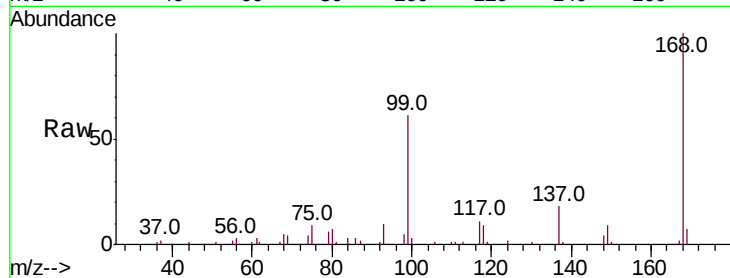
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 293614

Ion Ratio Lower Upper

168 100

99 61.5 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

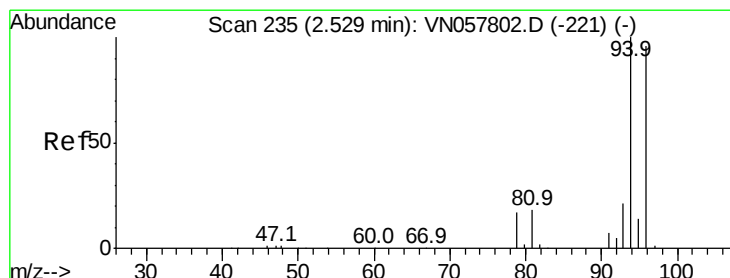
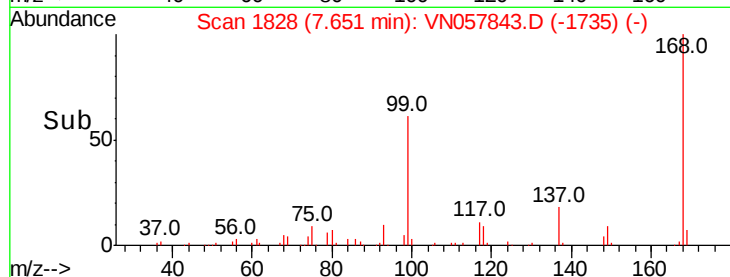
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. 0.00 min

Lab File: VN057843.D

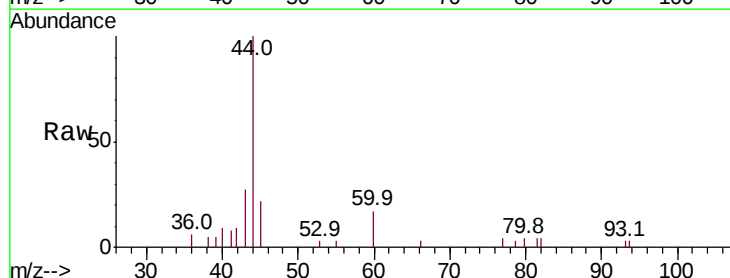
Acq: 10 Sep 2019 7:58

Tgt Ion: 94 Resp: 29

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.53

150

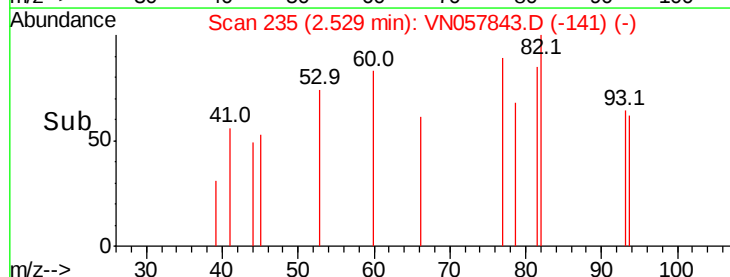
100

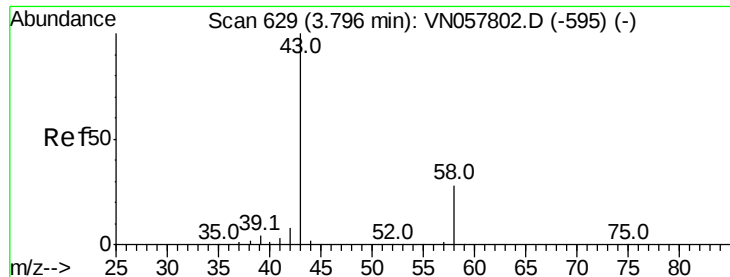
50

0

Time-->

2.52 2.53 2.54





#16

Acetone

Concen: 4.454 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

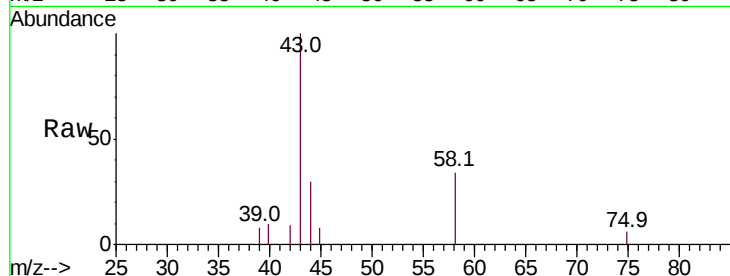
ClientSampled :

Tot Ion: 43 Resp: 8684

Ion Ratio Lower Upper

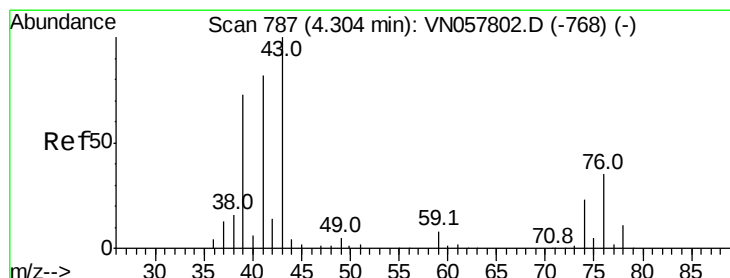
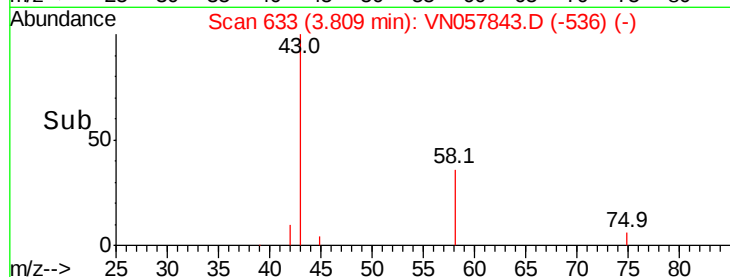
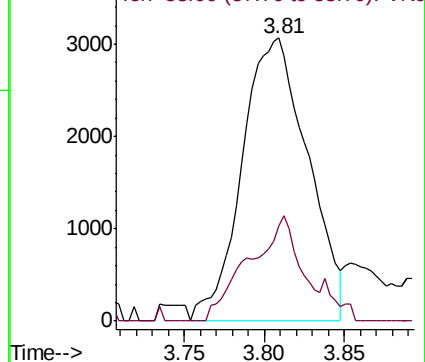
43 100

58 33.7 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: 1.753 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057843.D

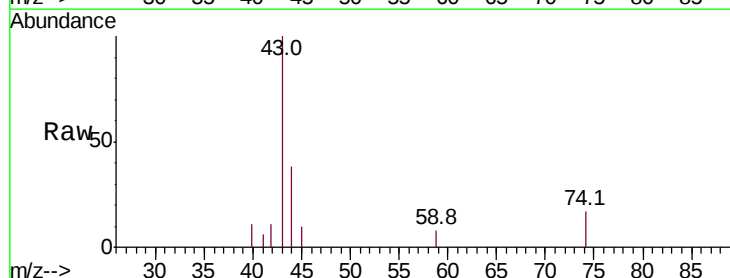
Acq: 10 Sep 2019 7:58

Tgt Ion: 43 Resp: 9110

Ion Ratio Lower Upper

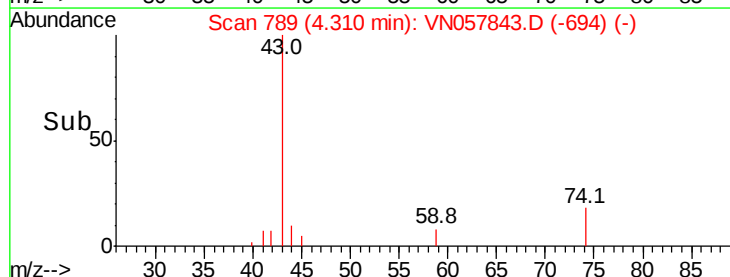
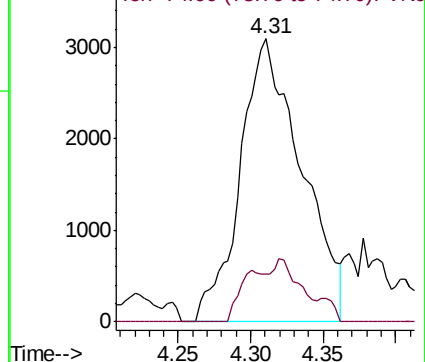
43 100

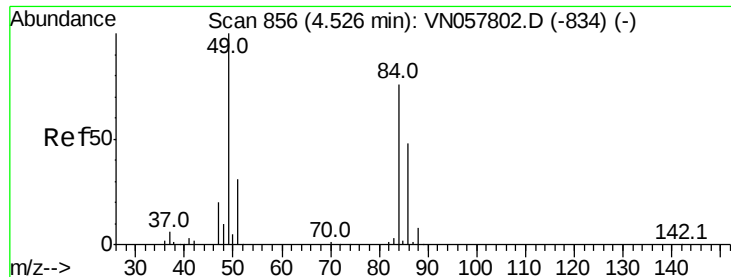
74 5.9 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

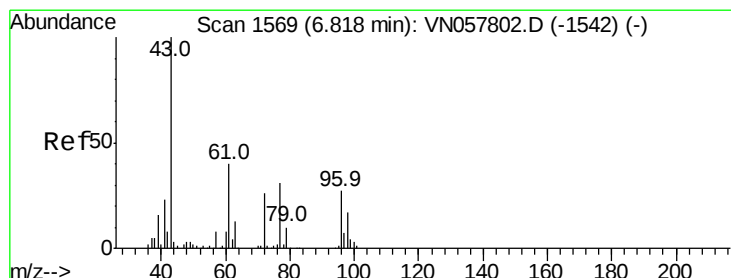
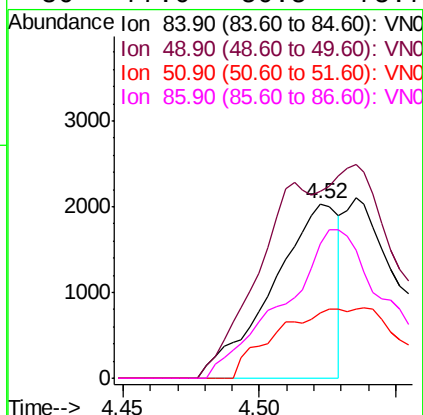
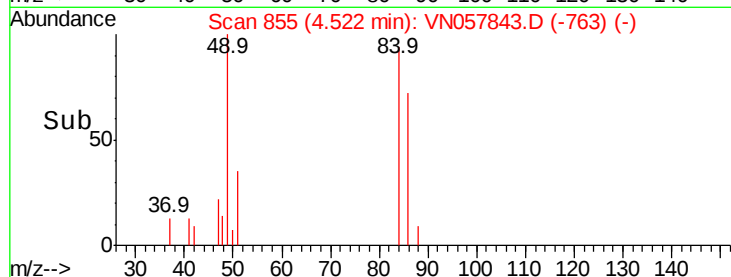
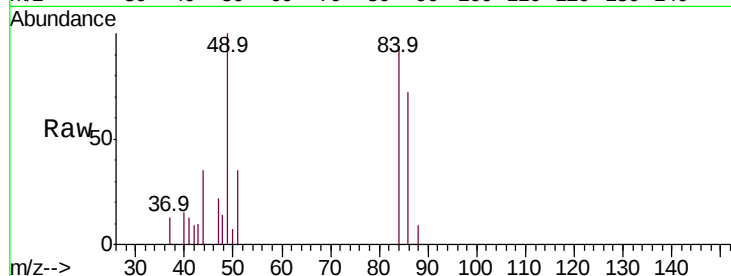




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057843.D
Acq: 10 Sep 2019 7:58

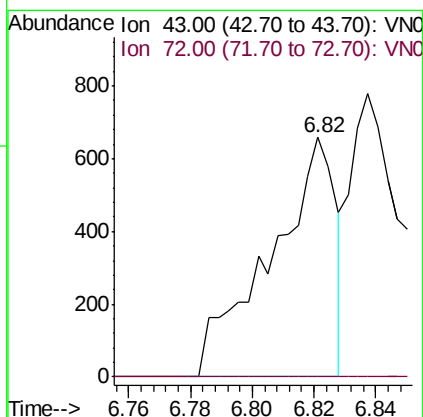
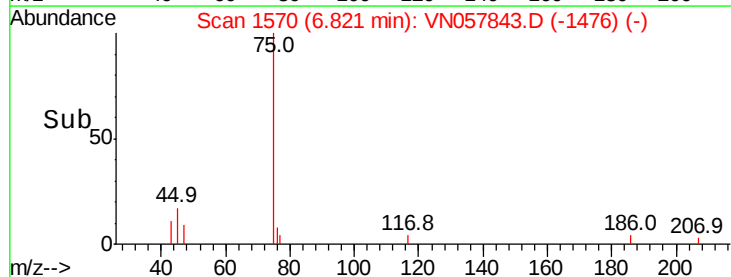
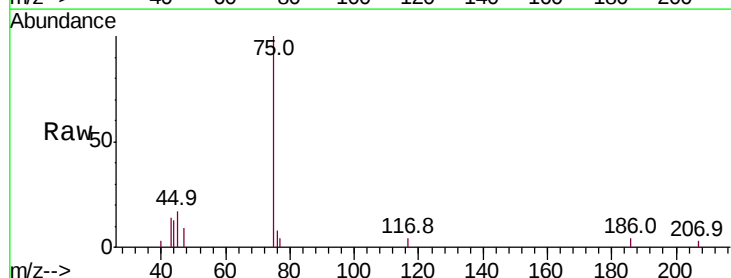
Instrument :
MSVOA_N
ClientSampleId :

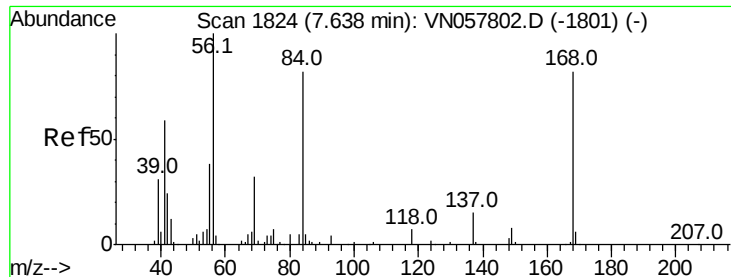
Tot Ion: 84 Resp: 3397
Ion Ratio Lower Upper
84 100
49 106.8 104.8 157.2
51 37.4 33.0 49.4
86 77.0 50.5 75.7#



#25
2-Butanone
Concen: 0.340 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057843.D
Acq: 10 Sep 2019 7:58

Tgt Ion: 43 Resp: 960
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :
MSVOA_N
ClientSampleId :

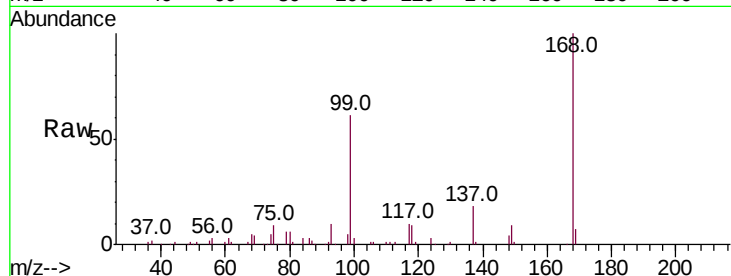
Tot Ion: 56 Resp: 7977

Ion Ratio Lower Upper

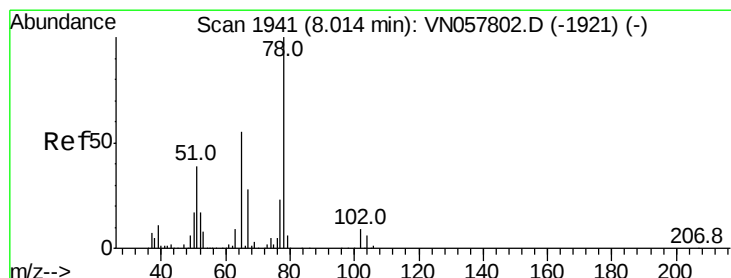
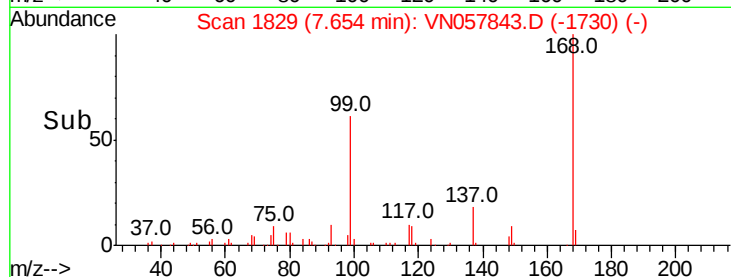
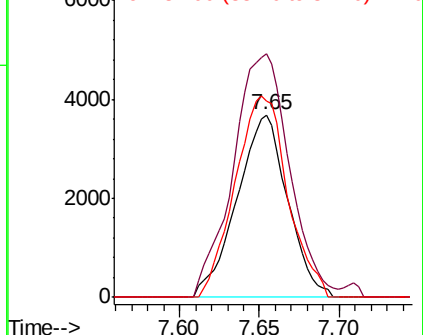
56 100

69 133.5 25.9 38.9#

84 107.3 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: 56.358 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057843.D

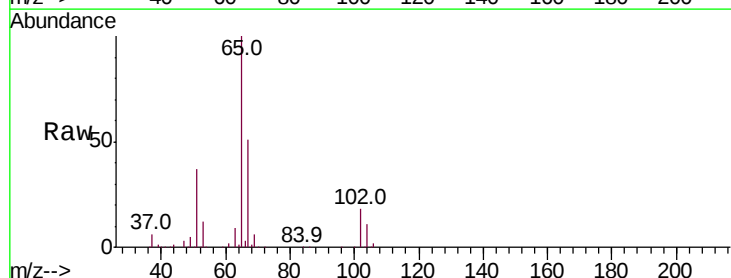
Acq: 10 Sep 2019 7:58

Tgt Ion: 65 Resp: 335157

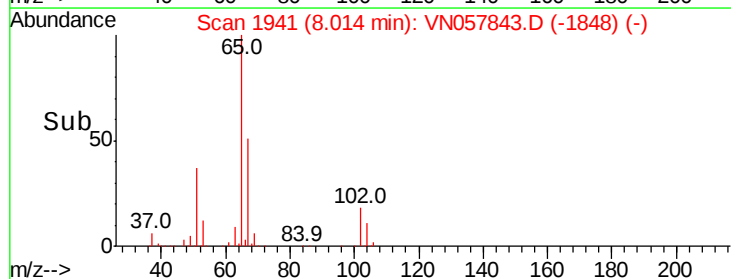
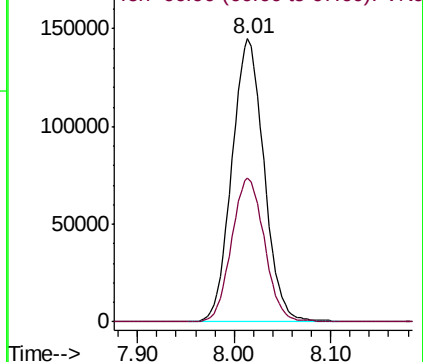
Ion Ratio Lower Upper

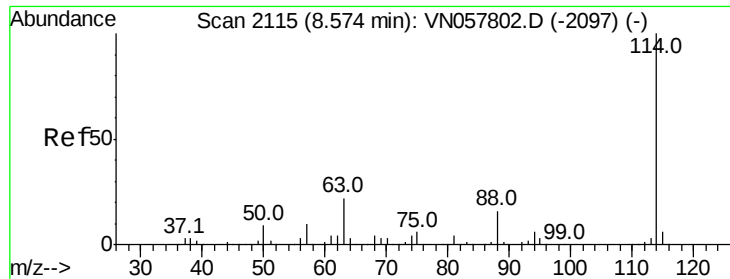
65 100

67 51.9 0.0 104.0



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

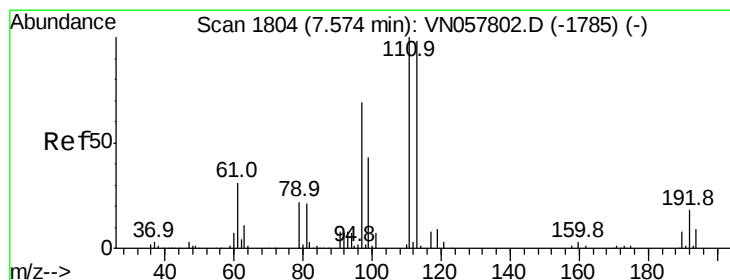
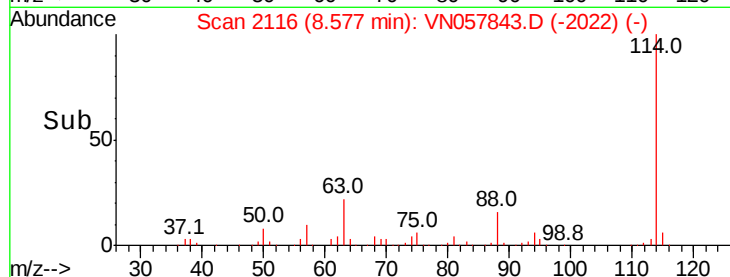
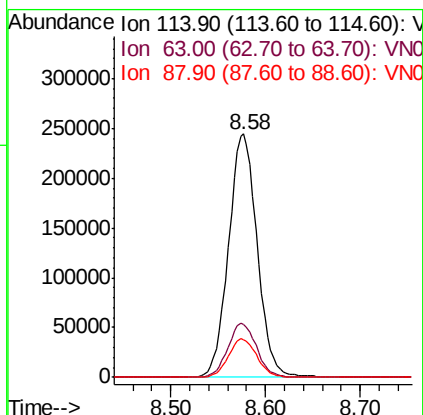
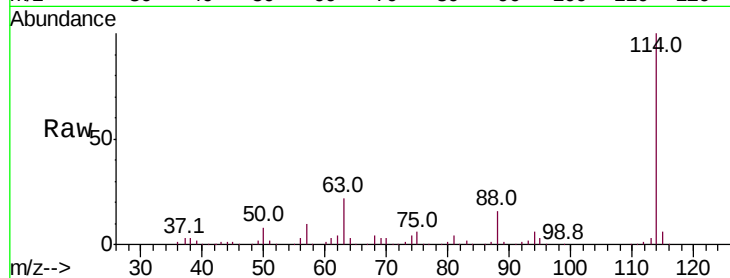




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

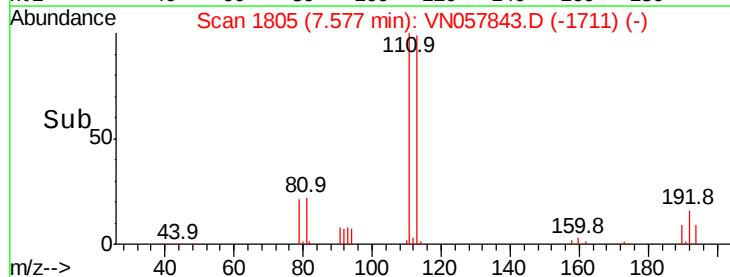
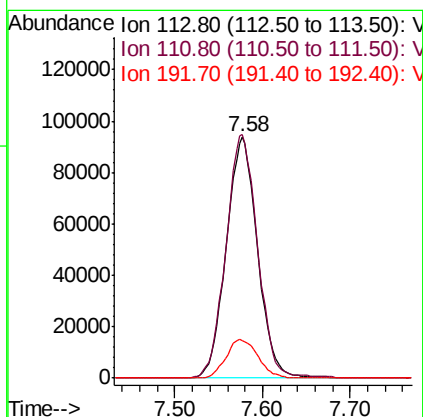
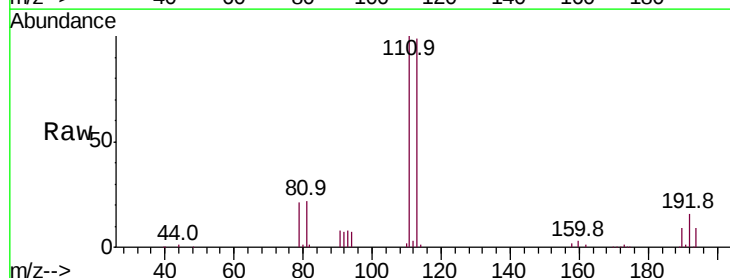
Instrument :
 MSVOA_N
 ClientSampleId :

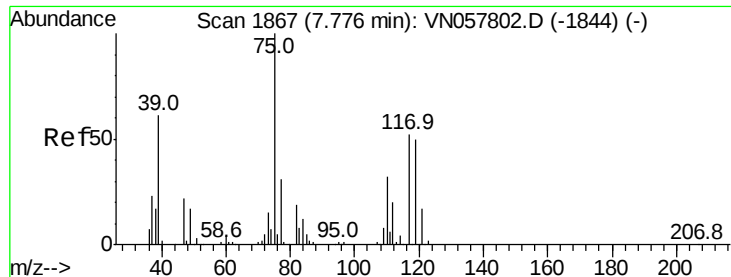
Tot Ion:114 Resp: 514641
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 15.6 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 48.921 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

Tgt Ion:113 Resp: 232372
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.3 121.9
 192 16.4 14.6 22.0

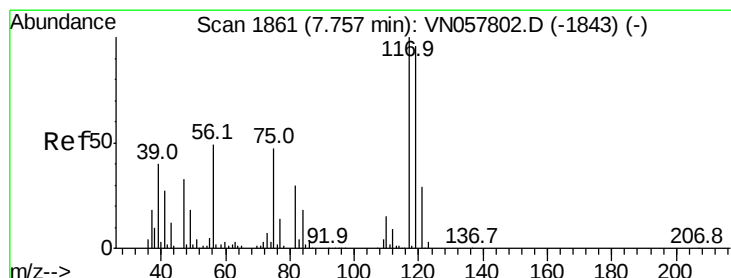
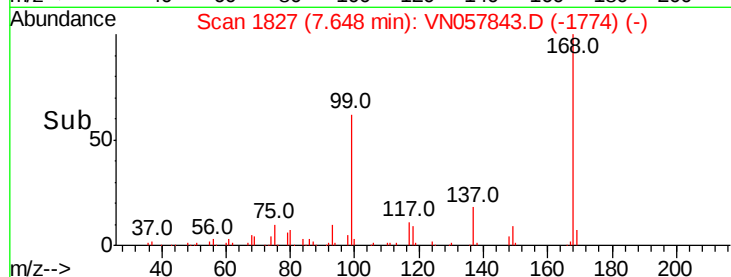
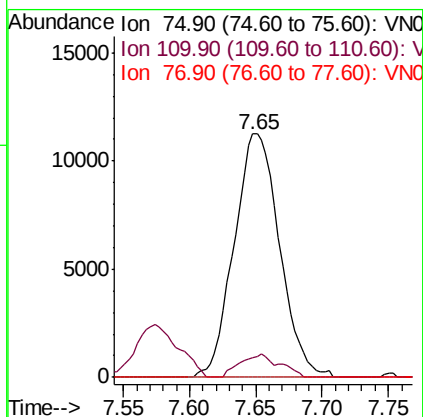
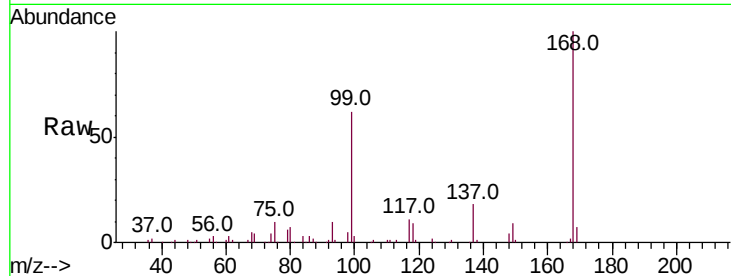




#36
 1,1-Dichloropropene
 Concen: 4.496 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

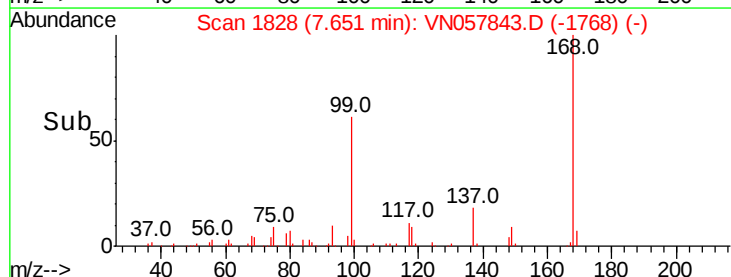
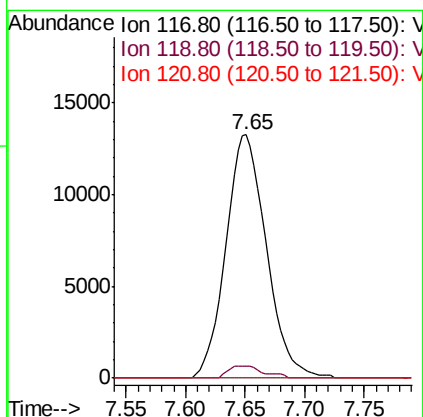
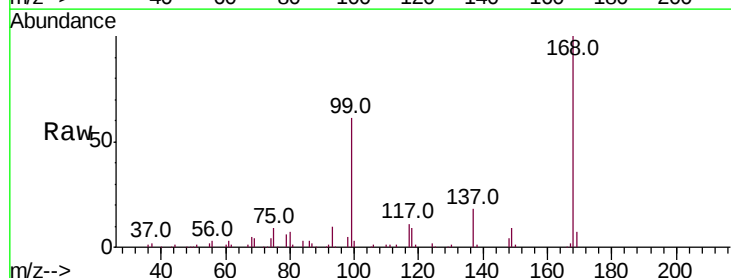
Instrument :
 MSVOA_N
 ClientSampled :

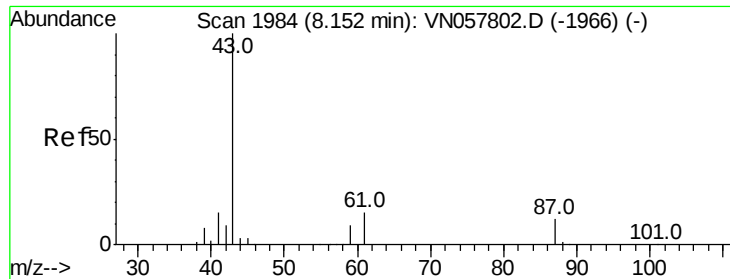
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.728 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 10.171 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

ClientSampled :

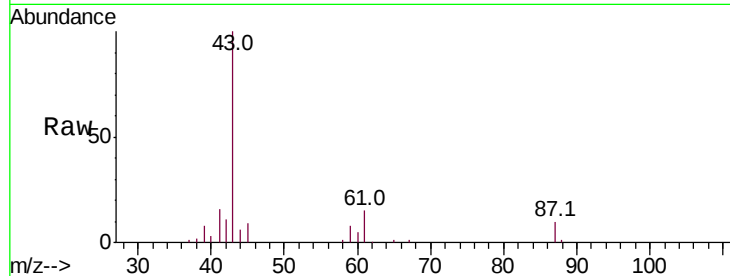
Tot Ion: 43 Resp: 105472

Ion Ratio Lower Upper

43 100

61 15.5 20.1 30.1#

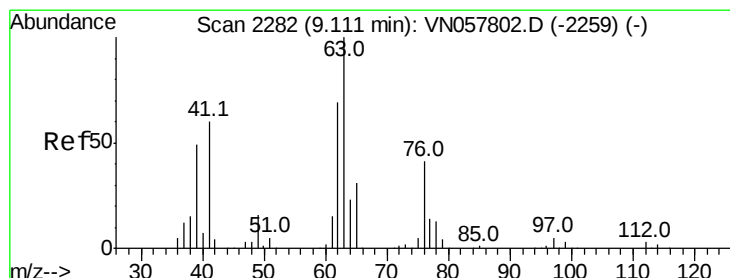
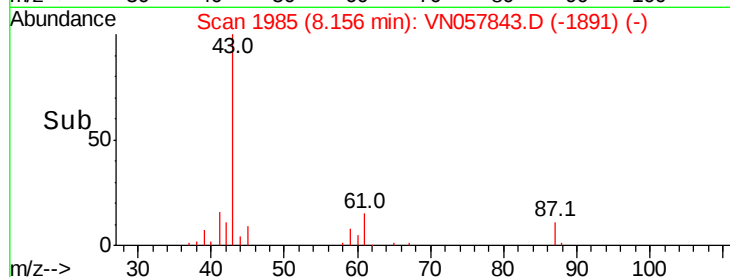
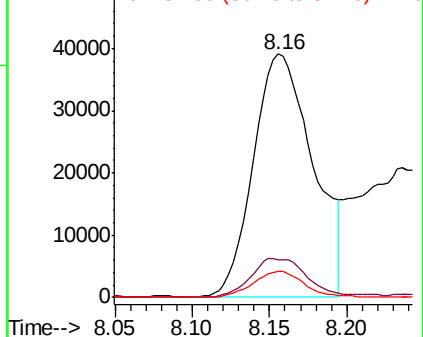
87 9.1 9.5 14.3#



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: 0.334 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN057843.D

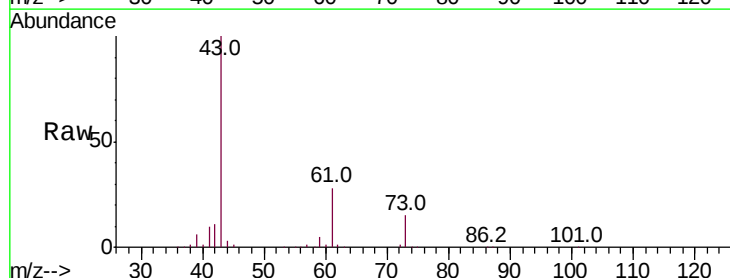
Acq: 10 Sep 2019 7:58

Tgt Ion: 63 Resp: 1746

Ion Ratio Lower Upper

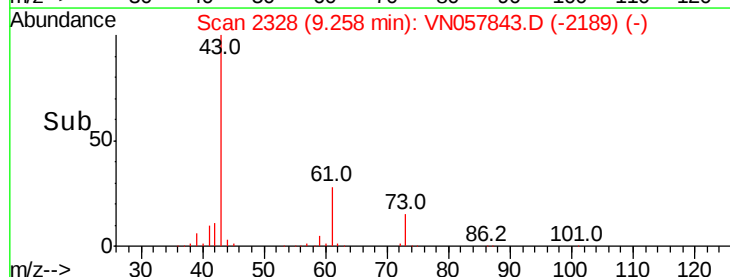
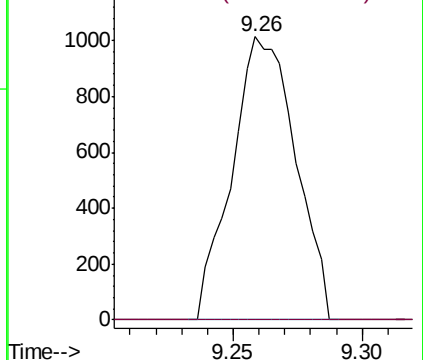
63 100

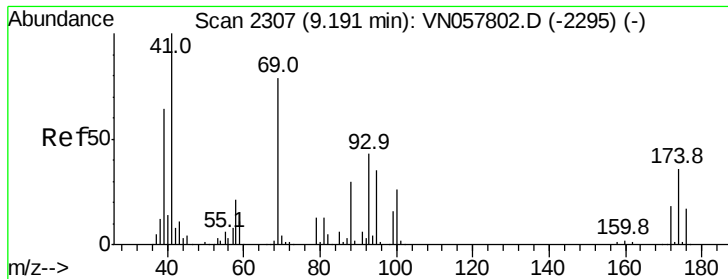
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methvl methacrylate

Concen: 0.888 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :
MSVOA_N
ClientSampled :

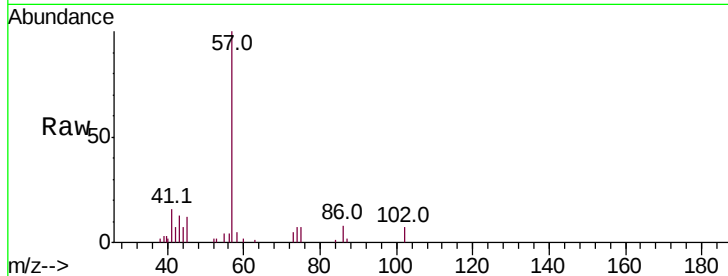
Tot Ion: 41 Resp: 4672

Ion Ratio Lower Upper

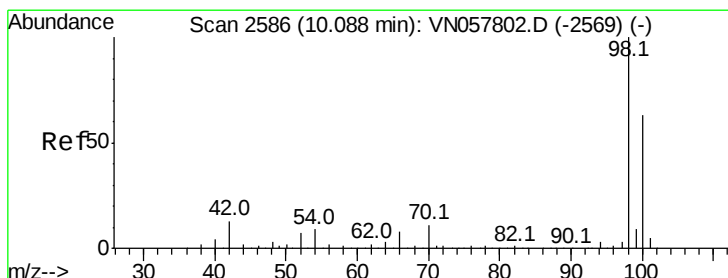
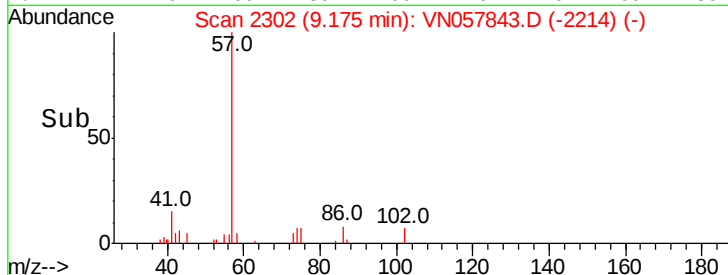
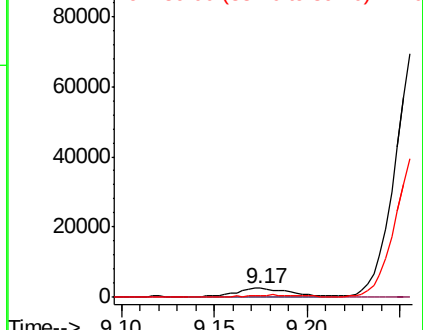
41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



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: 51.502 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057843.D

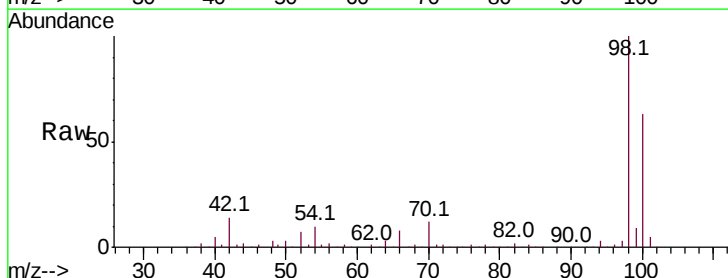
Acq: 10 Sep 2019 7:58

Tgt Ion: 98 Resp: 949789

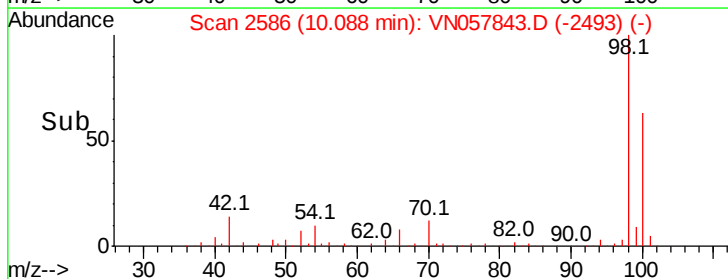
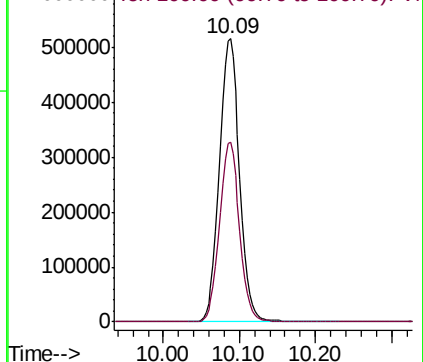
Ion Ratio Lower Upper

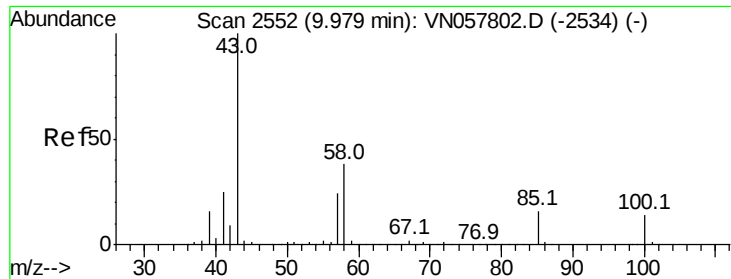
98 100

100 62.8 50.3 75.5



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: 0.638 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

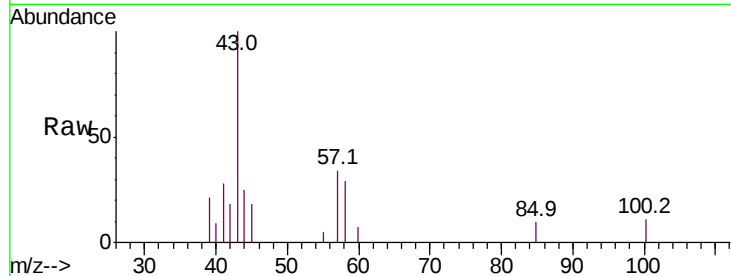
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3914

Ion Ratio Lower Upper

43 100

58 54.4 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) (-)

8000

6000

4000

2000

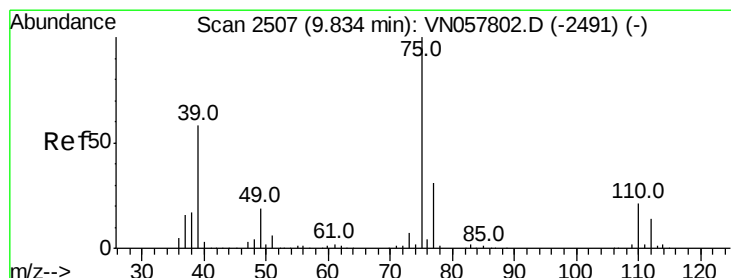
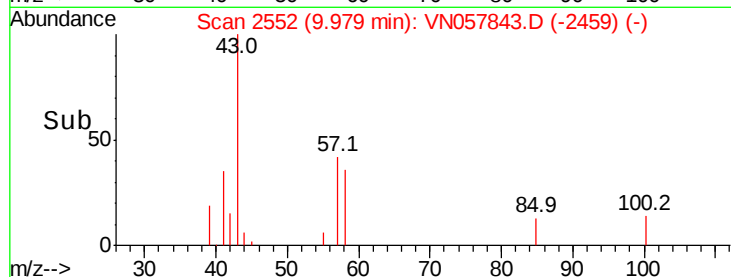
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.068 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

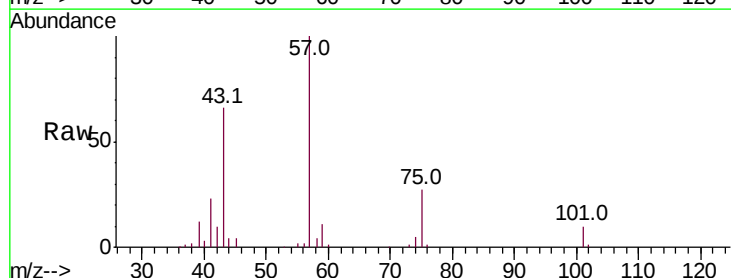
Tgt Ion: 75 Resp: 37179

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 42.6 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) (-)

25000

20000

15000

10000

5000

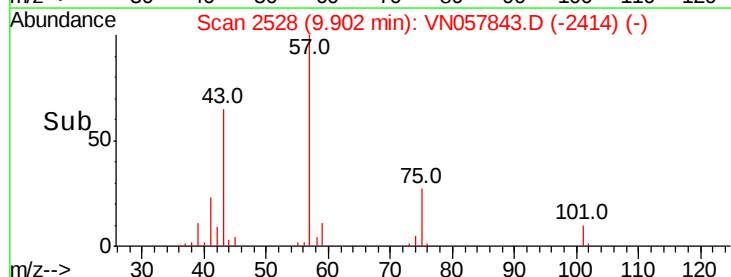
0

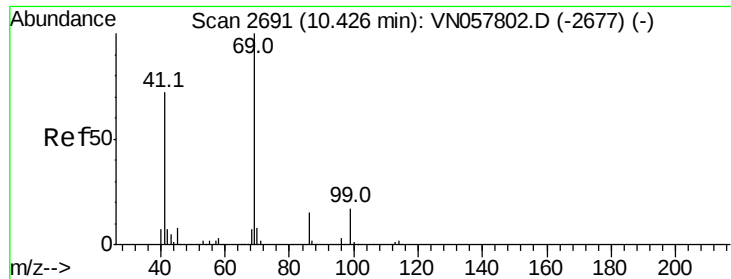
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.218 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

ClientSampled :

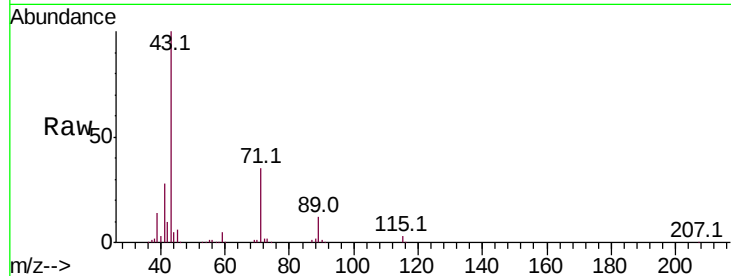
Tot Ion: 69 Resp: 1571

Ion Ratio Lower Upper

69 100

41 6070.5 56.7 85.1#

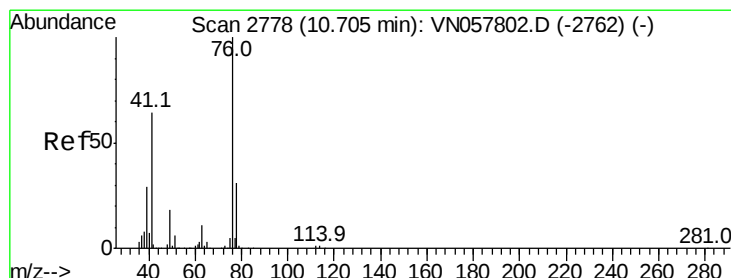
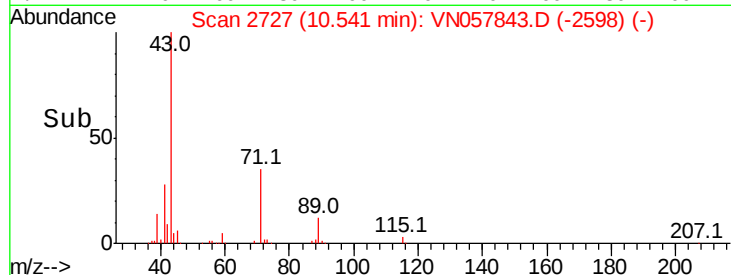
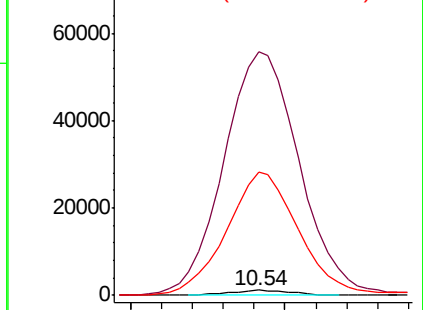
39 2934.8 36.3 54.5#



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: 0.743 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN057843.D

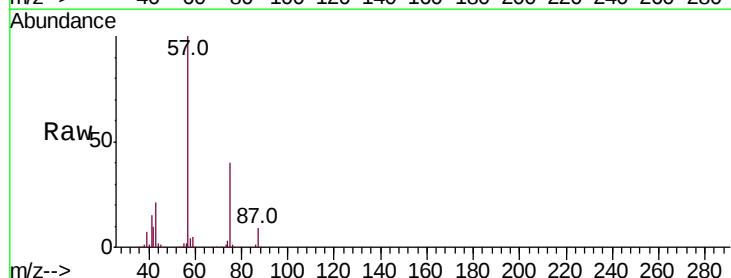
Acq: 10 Sep 2019 7:58

Tgt Ion: 76 Resp: 6137

Ion Ratio Lower Upper

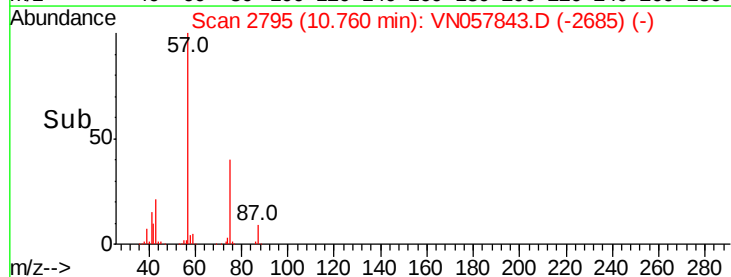
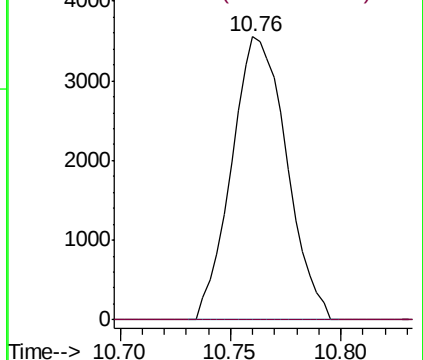
76 100

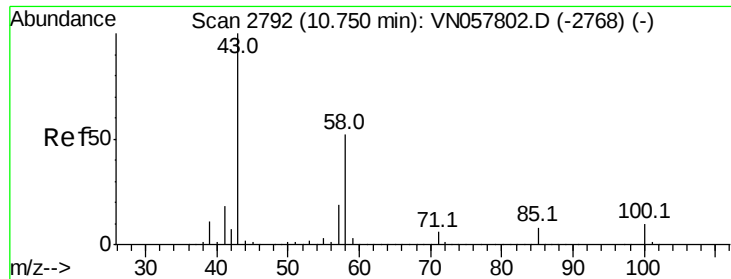
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 21.223 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

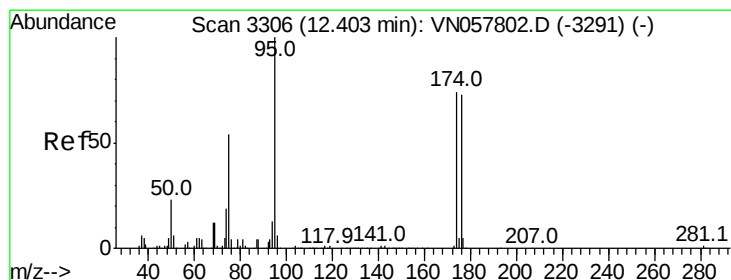
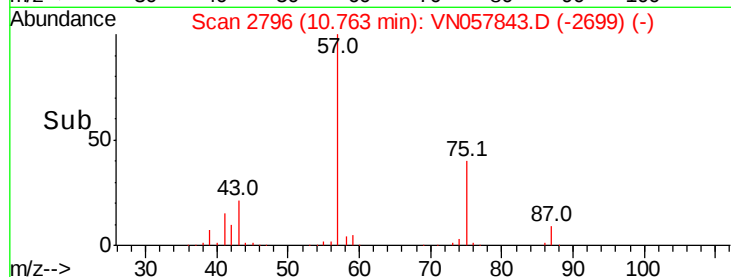
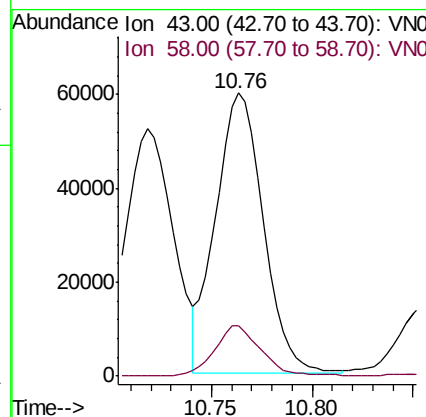
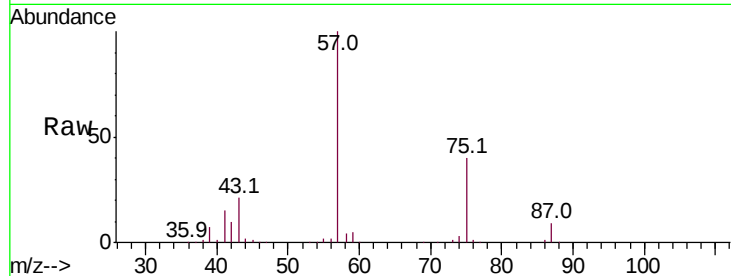
ClientSampleId :

Tot Ion: 43 Resp: 97619

Ion Ratio Lower Upper

43 100

58 17.6 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.617 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

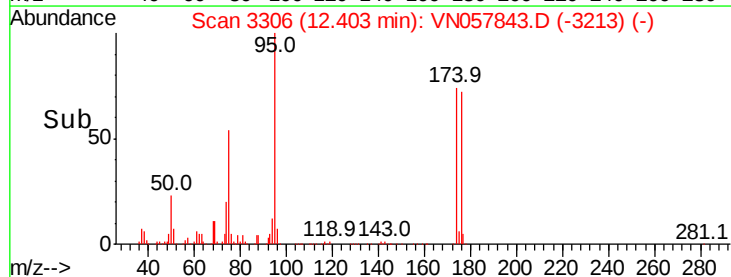
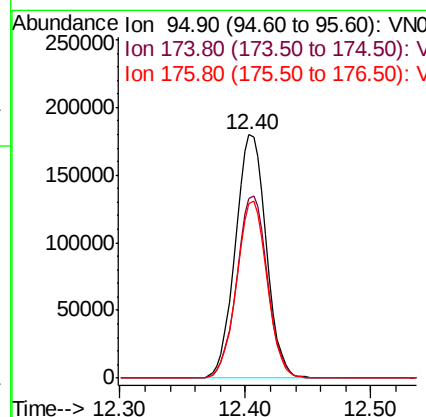
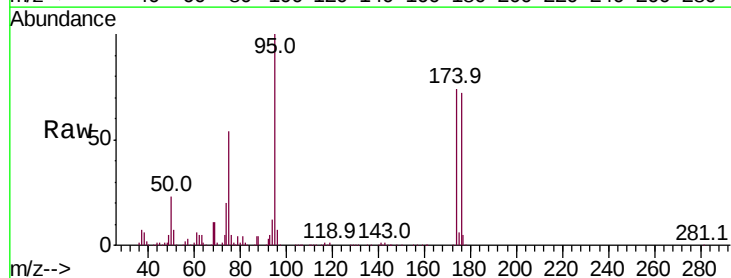
Tgt Ion: 95 Resp: 306539

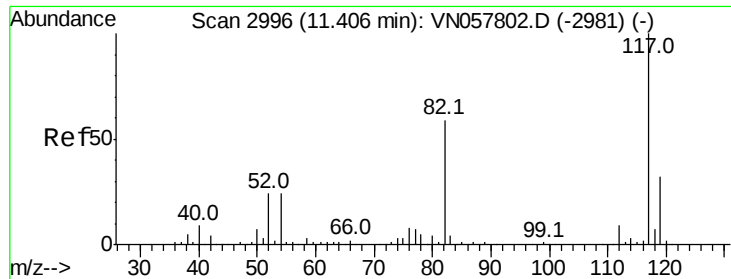
Ion Ratio Lower Upper

95 100

174 74.7 0.0 150.2

176 71.8 0.0 146.0

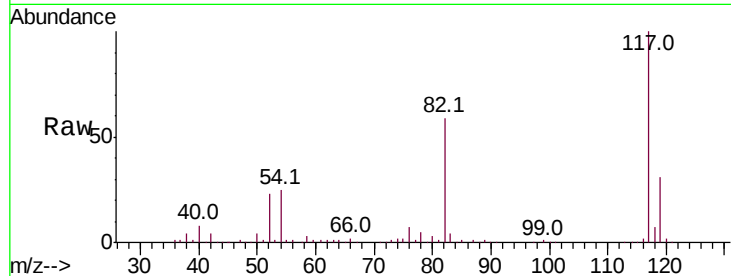




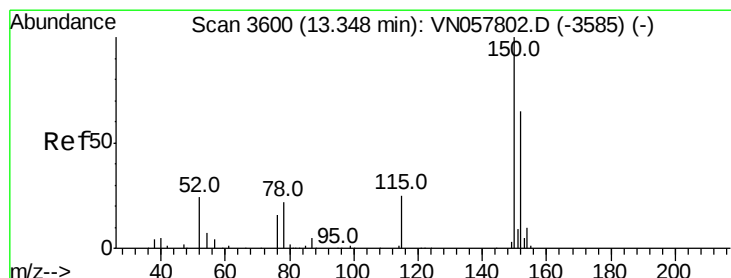
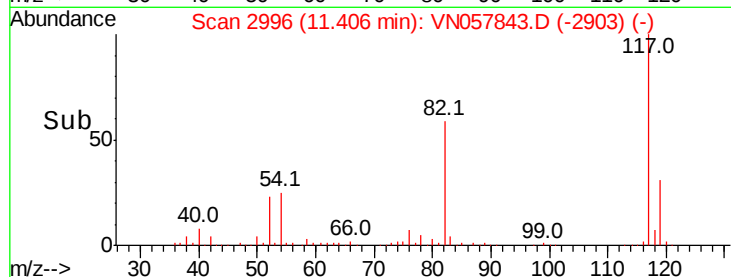
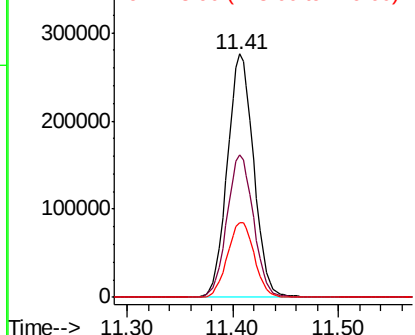
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:117 Resp: 474855
 Ion Ratio Lower Upper
 117 100
 82 58.8 47.2 70.8
 119 30.9 25.3 37.9

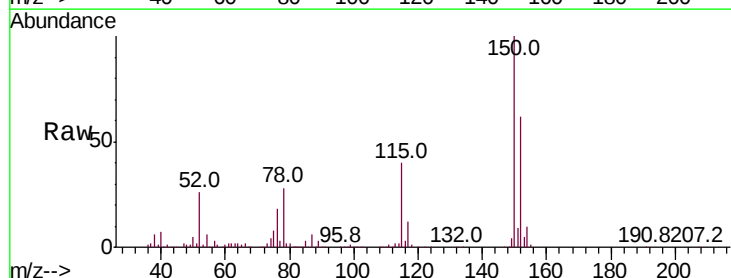


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

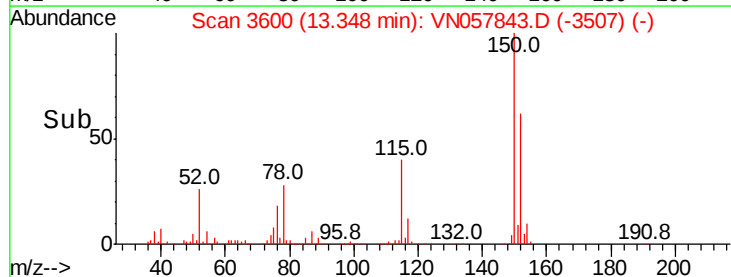
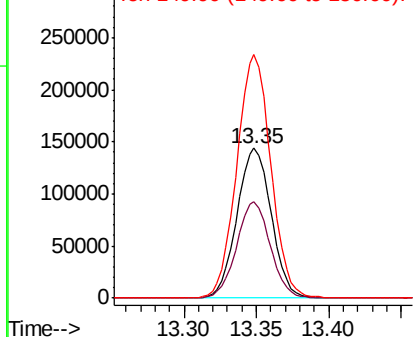


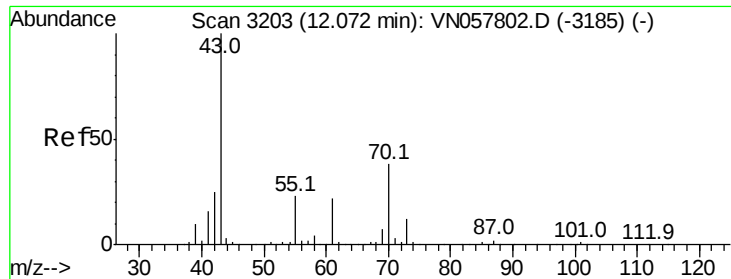
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

Tgt Ion:152 Resp: 237263
 Ion Ratio Lower Upper
 152 100
 115 63.0 30.3 91.0
 150 161.2 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





#74

N-amyl acetate

Concen: 0.593 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 4750

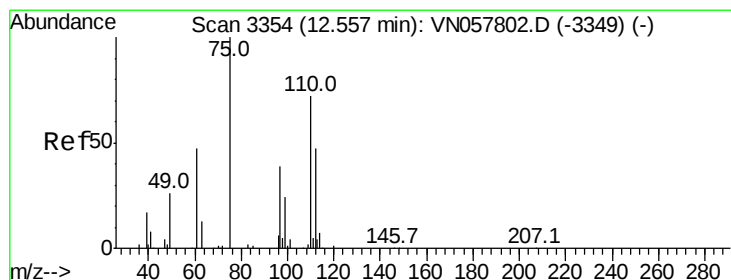
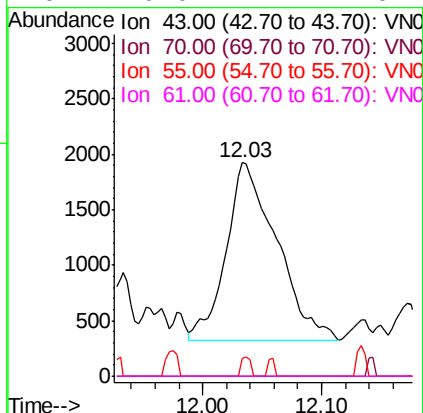
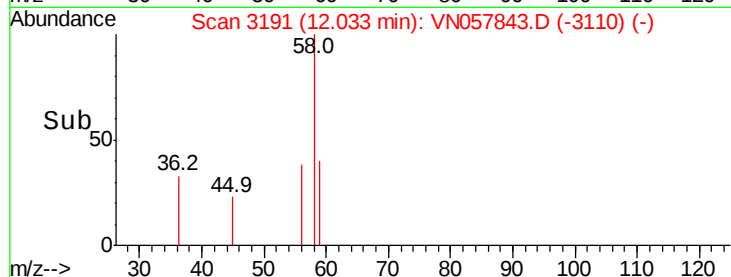
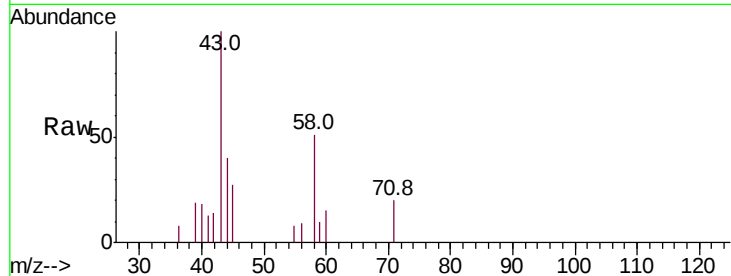
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.0 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.977 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057843.D

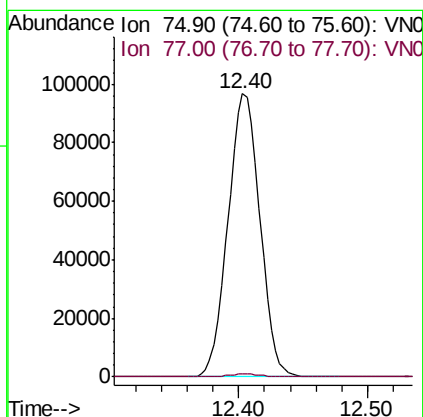
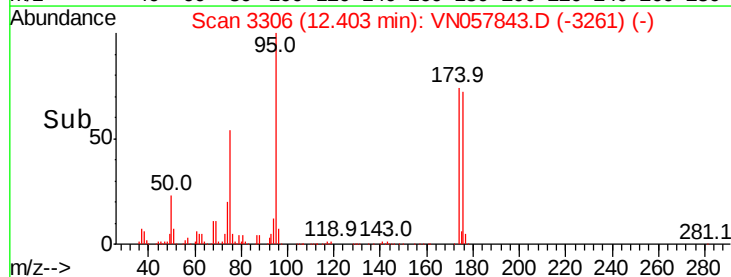
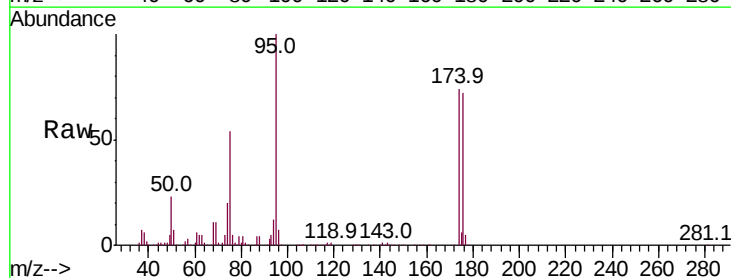
Acq: 10 Sep 2019 7:58

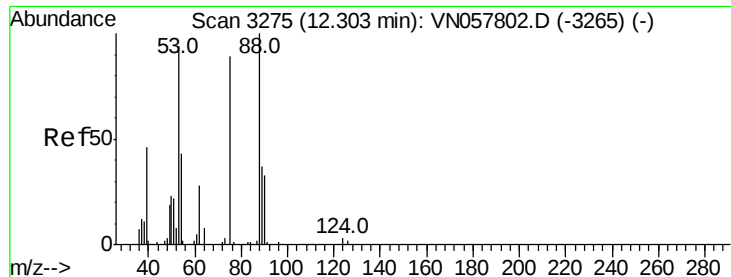
Tgt Ion: 75 Resp: 166264

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 109.009 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

Instrument :

MSVOA_N

ClientSampleId :

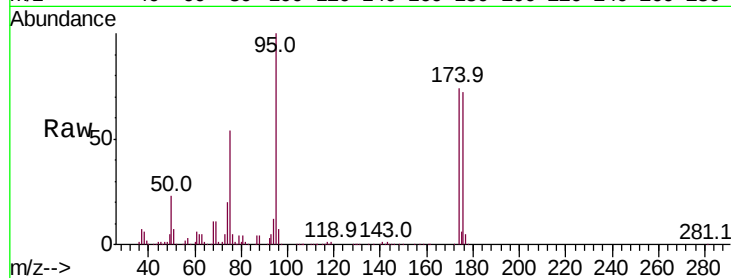
Tot Ion: 75 Resp: 166264

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

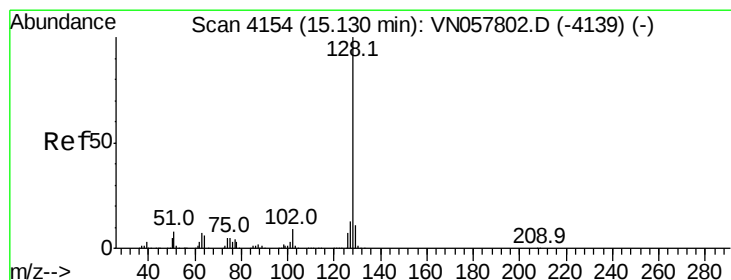
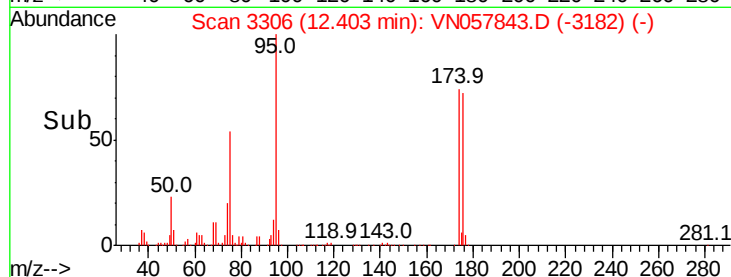
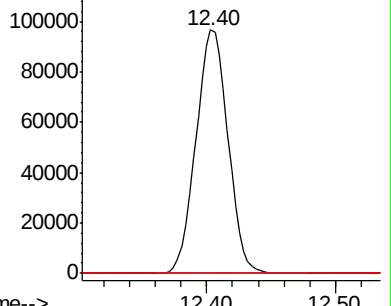
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057843.D

Acq: 10 Sep 2019 7:58

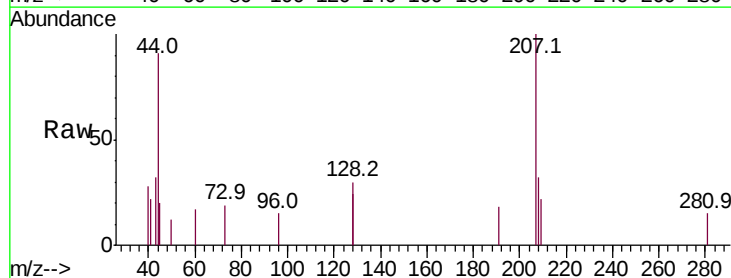
Tgt Ion: 128 Resp: 939

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

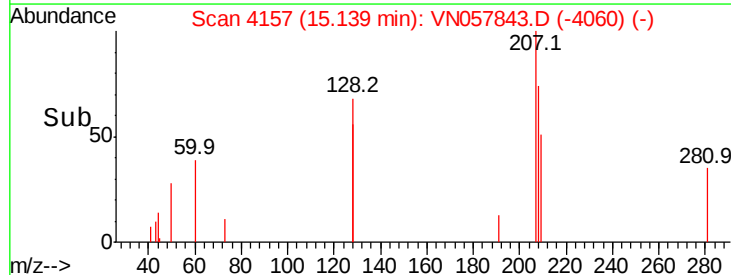
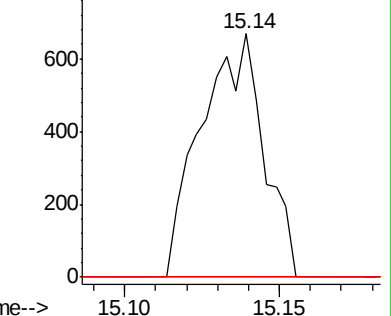
129 0.0 8.6 12.8#

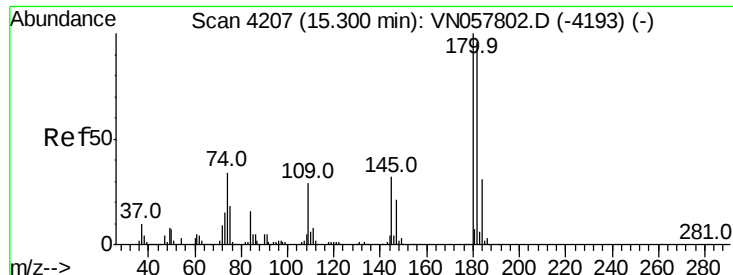


Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)





#96
 1,2,3-Trichlorobenzene
 Concen: 1.021 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN057843.D
 Acq: 10 Sep 2019 7:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 113
 Ion Ratio Lower Upper
 180 100
 182 26.5 48.3 144.8#
 145 0.0 16.3 48.8#

