

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057876.D
 Acq On : 10 Sep 2019 20:20
 Operator : JC/SP
 Sample : K4623-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(0)

Quant Time: Sep 11 03:57:29 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	286826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	485360	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	453895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	231127	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	319874	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	
35) Dibromofluoromethane	7.58	113	216199	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
50) Toluene-d8	10.09	98	891278	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.40	95	285441	43.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.14%	

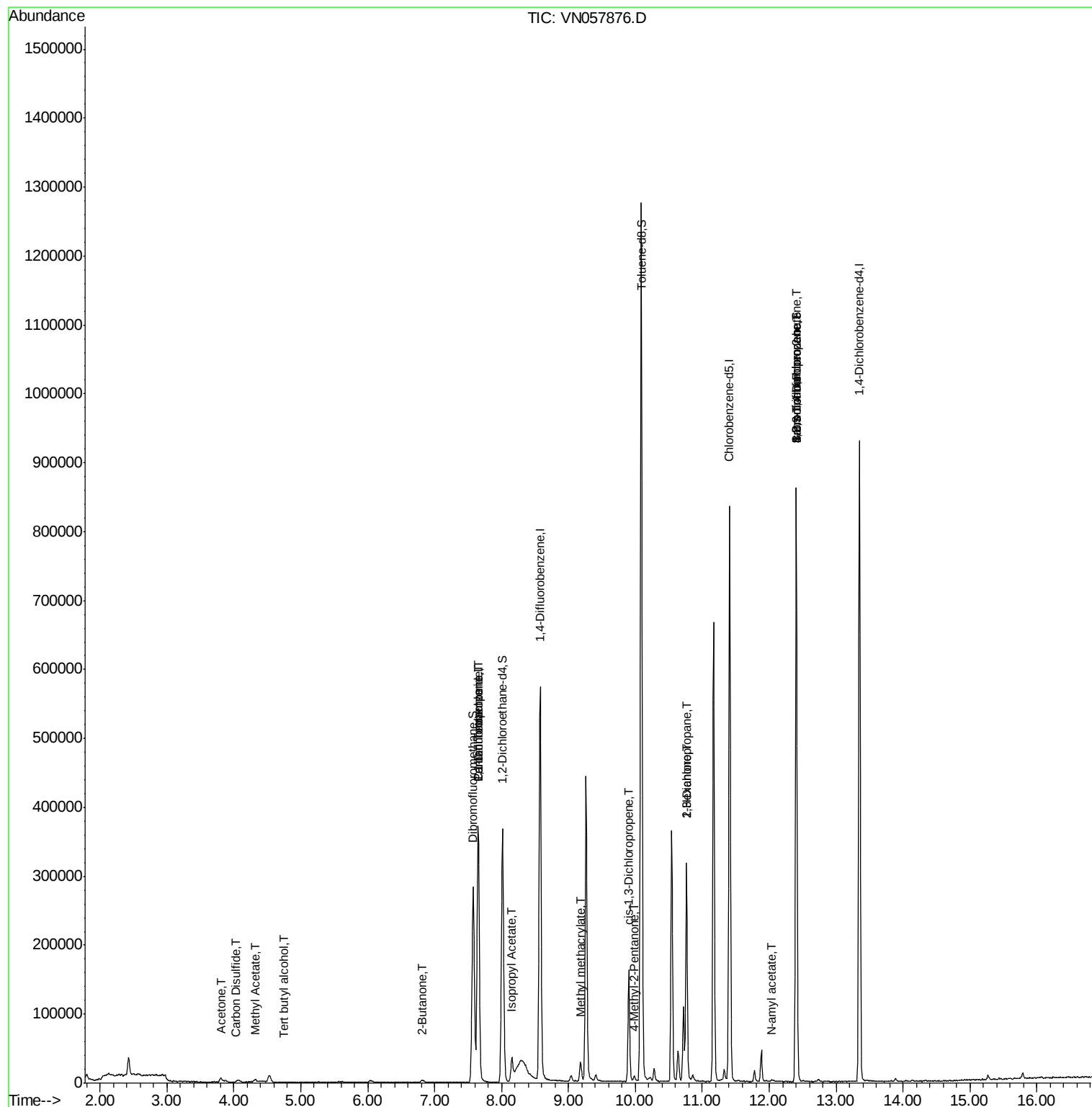
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	142	Below Cal	#	2
11) Tert butyl alcohol	4.76	59	153	0.218	ug/l #	72
16) Acetone	3.81	43	11616	6.099	ug/l #	80
17) Carbon Disulfide	4.02	76	228	0.206	ug/l #	75
18) Methyl Acetate	4.32	43	5210	1.026	ug/l	97
20) Methylene Chloride	4.52	84	3240	Below Cal		93
25) 2-Butanone	6.81	43	723	0.262	ug/l #	49
31) Cyclohexane	7.65	56	7695	Below Cal	#	3
36) 1,1-Dichloropropene	7.65	75	24759	4.399	ug/l #	52
38) Carbon Tetrachloride	7.65	117	30735	5.981	ug/l #	15
43) Isopropyl Acetate	8.16	43	43997	4.499	ug/l #	91
48) Methyl methacrylate	9.18	41	4376	0.882	ug/l #	34
51) 4-Methyl-2-Pentanone	9.98	43	4222	0.729	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	27171	3.927	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	3496	0.449	ug/l #	43
59) 2-Hexanone	10.76	43	48263	11.126	ug/l #	55
71) Bromoform	12.41	173	1648	0.641	ug/l #	1
74) N-amyl acetate	12.04	43	3150	0.404	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	158216	30.260	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158216	106.487	ug/l #	6
95) Naphthalene	15.13	128	295	Below Cal	#	69

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

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Quant Title : SW846 8260
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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: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

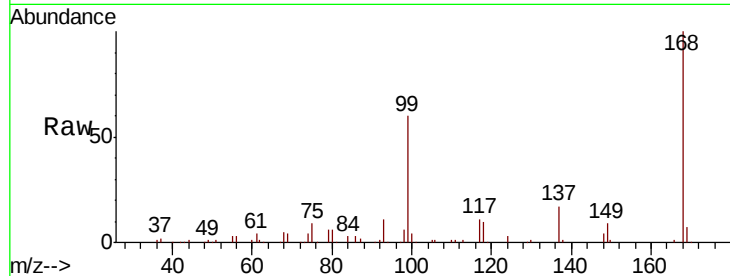
PAR-11-D4-(0)

Tgt Ion:168 Resp: 286826

Ion Ratio Lower Upper

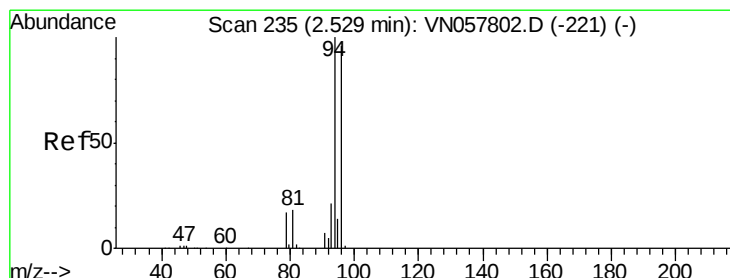
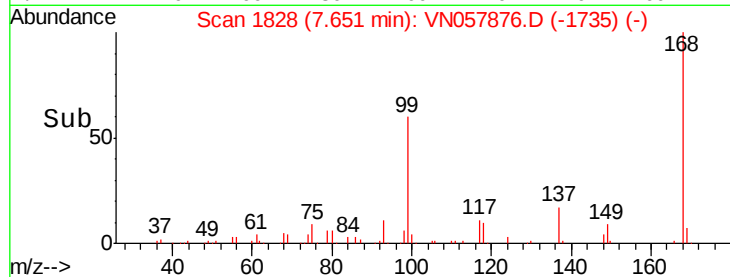
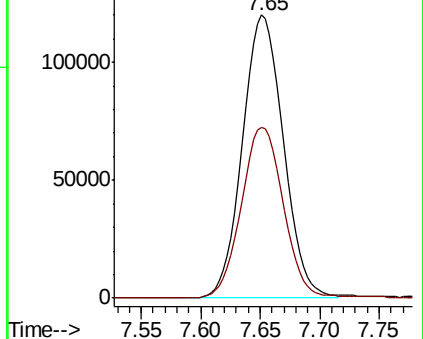
168 100

99 60.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057876.D

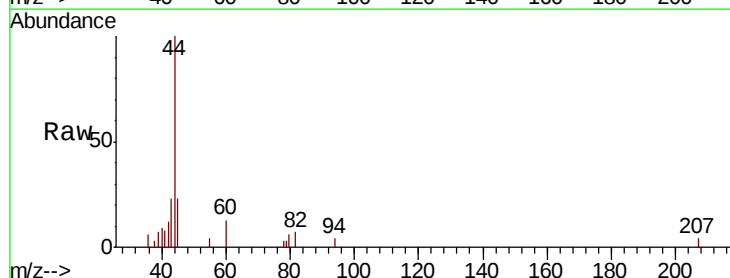
Acq: 10 Sep 2019 20:20

Tgt Ion: 94 Resp: 142

Ion Ratio Lower Upper

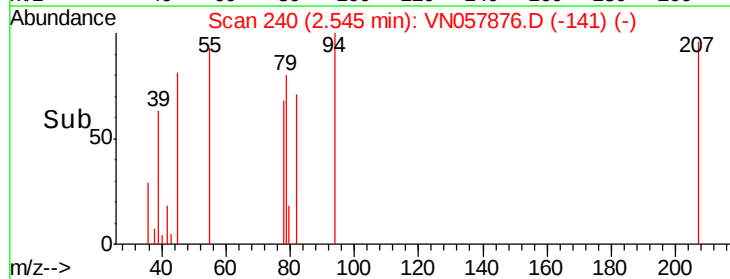
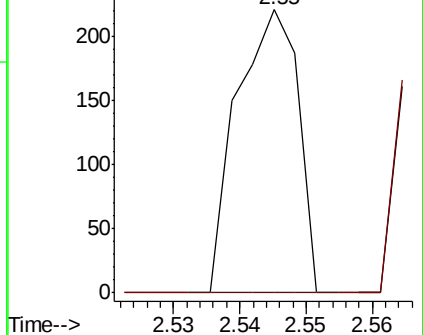
94 100

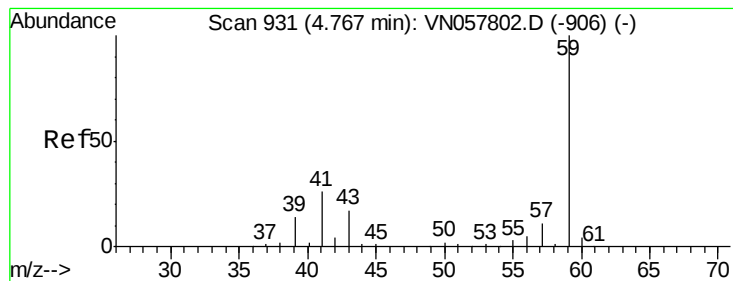
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#11

Tert butyl alcohol

Concen: 0.218 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

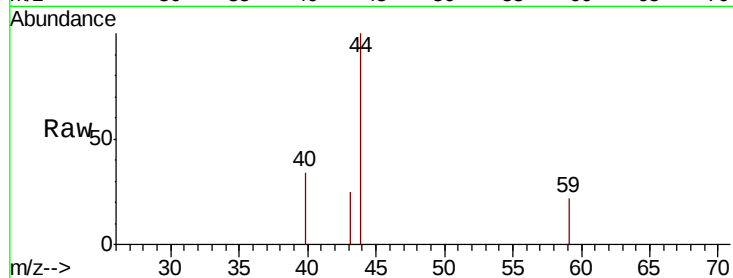
PAR-11-D4-(0)

Tgt Ion: 59 Resp: 153

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

150

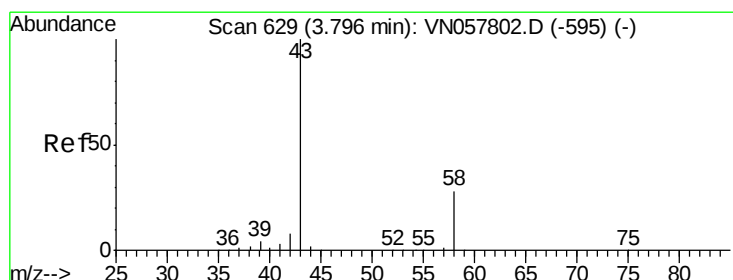
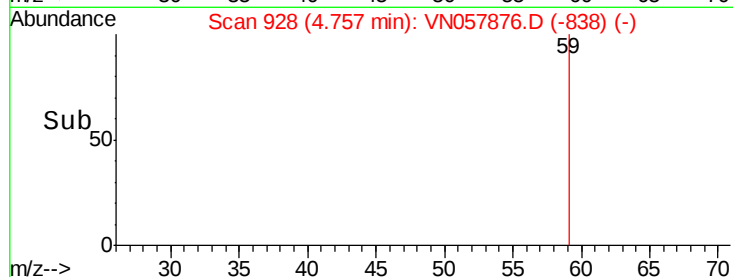
100

50

0

4.73 4.74 4.75 4.76 4.77

Time-->



#16

Acetone

Concen: 6.099 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057876.D

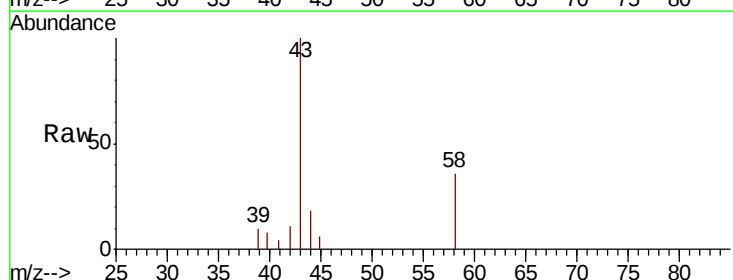
Acq: 10 Sep 2019 20:20

Tgt Ion: 43 Resp: 11616

Ion Ratio Lower Upper

43 100

58 38.0 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

4000

3000

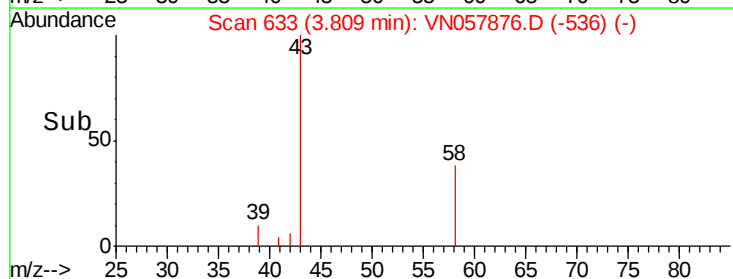
2000

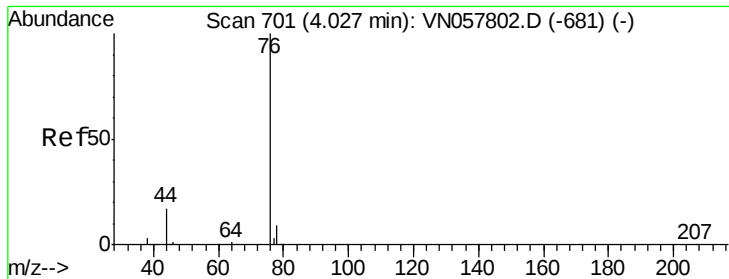
1000

0

3.70 3.80 3.90

Time-->

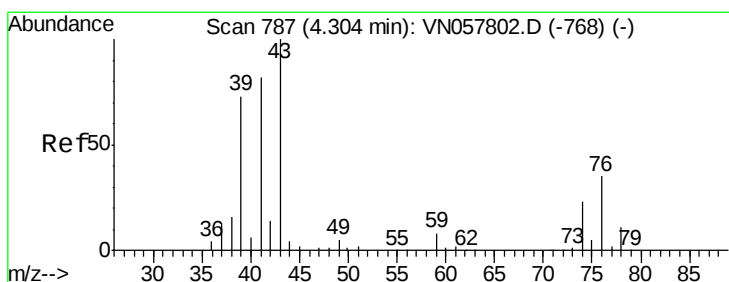
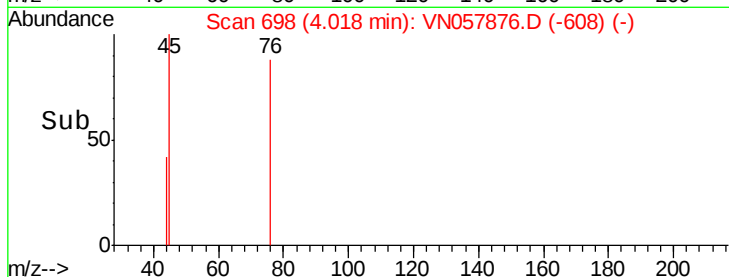
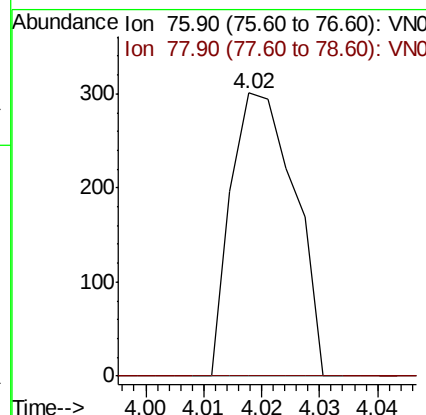
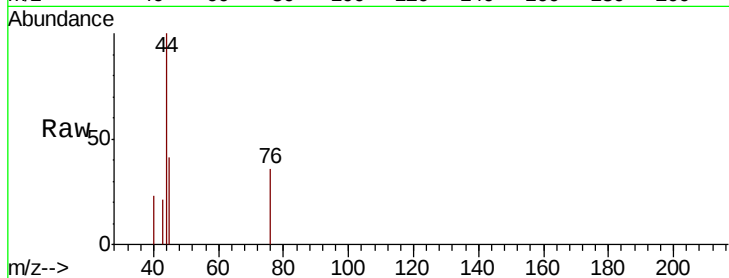




#17
Carbon Disulfide
Concen: 0.206 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.01 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

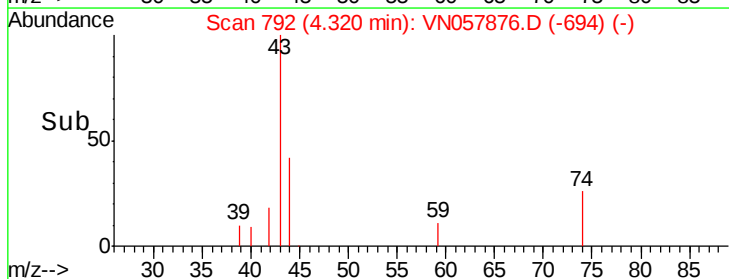
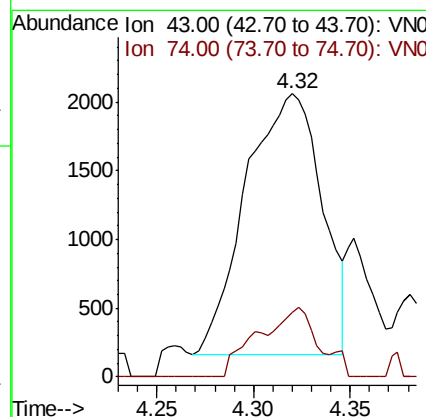
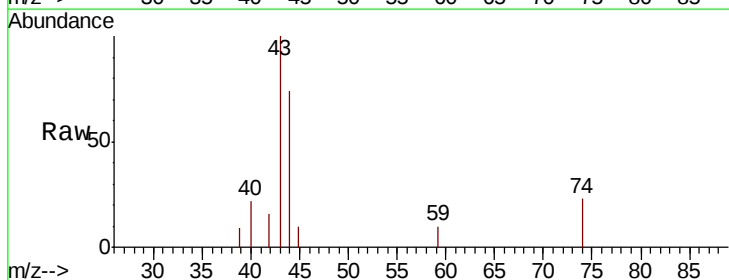
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(0)

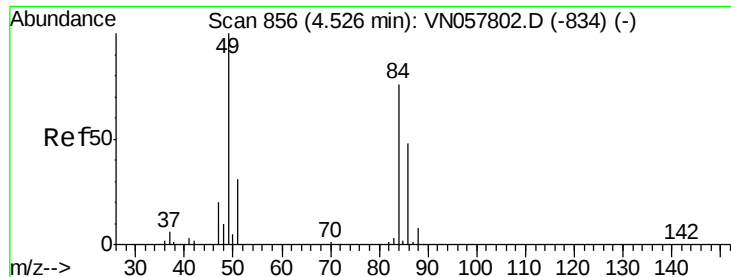
Tgt Ion: 76 Resp: 228
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.026 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

Tgt Ion: 43 Resp: 5210
Ion Ratio Lower Upper
43 100
74 20.9 17.9 26.9

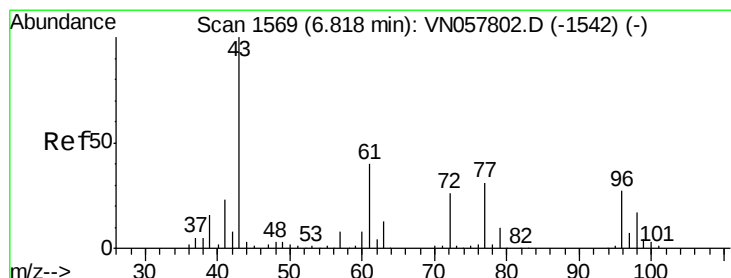
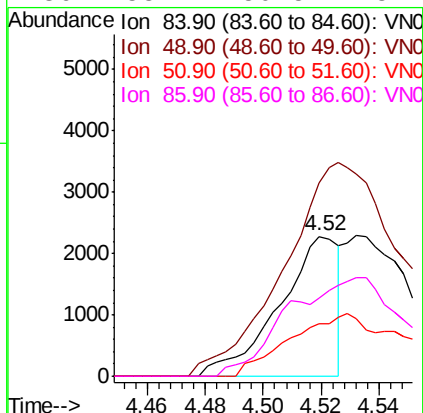
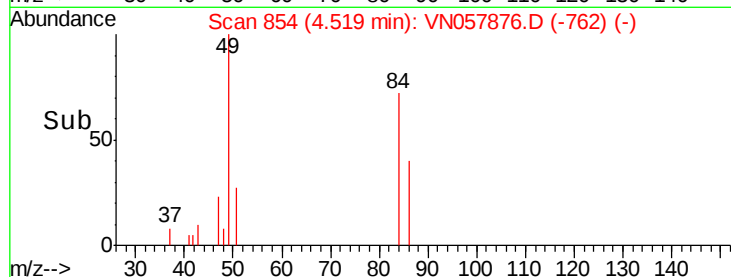
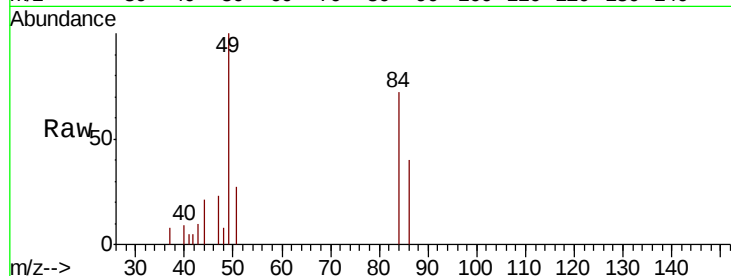




#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 854
Delta R.T. -0.01 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

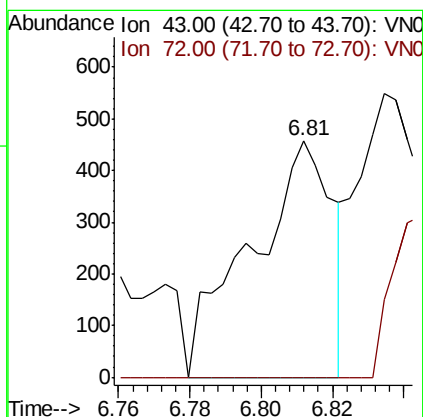
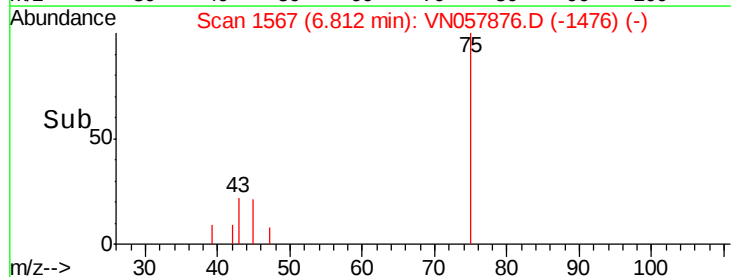
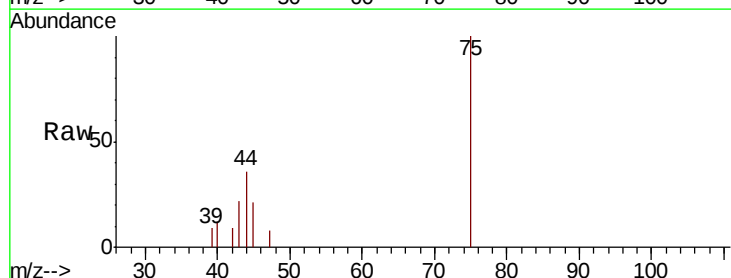
Instrument :
MSVOA_N
ClientSampled :
PAR-11-D4-(0)

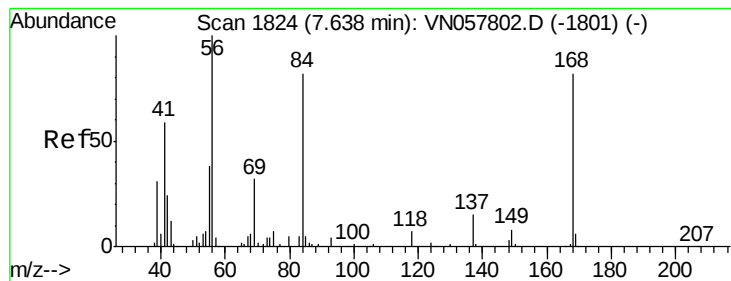
Tgt Ion: 84 Resp: 3240
Ion Ratio Lower Upper
84 100
49 138.2 104.8 157.2
51 37.4 33.0 49.4
86 55.7 50.5 75.7



#25
2-Butanone
Concen: 0.262 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

Tgt Ion: 43 Resp: 723
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: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(0)

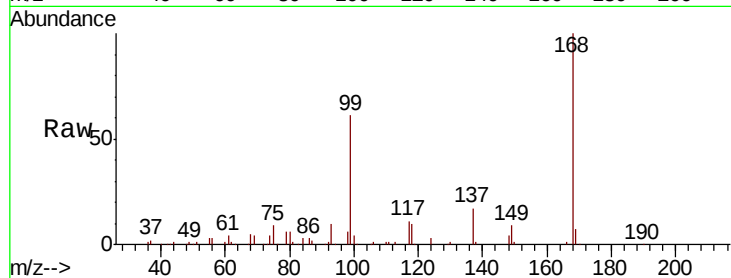
Tgt Ion: 56 Resp: 7695

Ion Ratio Lower Upper

56 100

69 151.3 25.9 38.9#

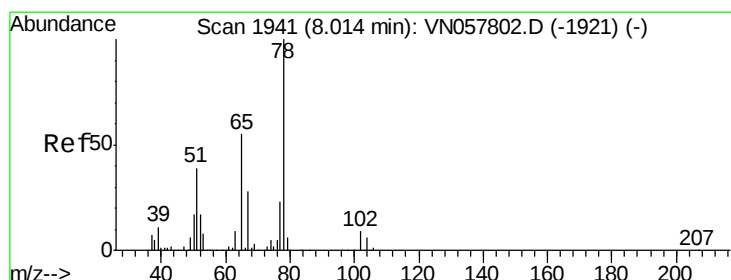
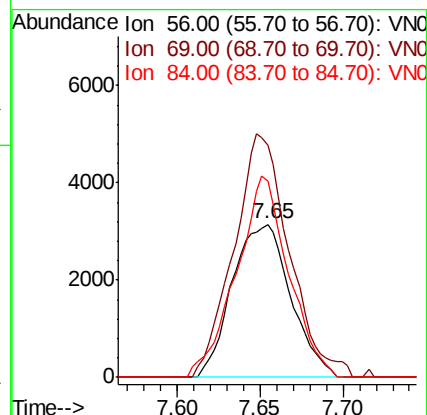
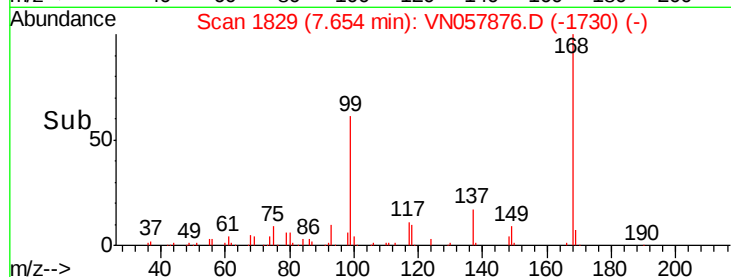
84 127.9 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.061 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057876.D

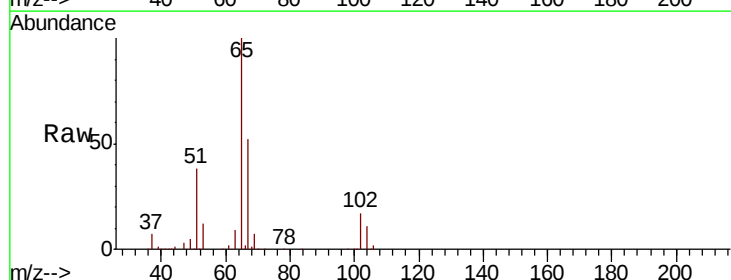
Acq: 10 Sep 2019 20:20

Tgt Ion: 65 Resp: 319874

Ion Ratio Lower Upper

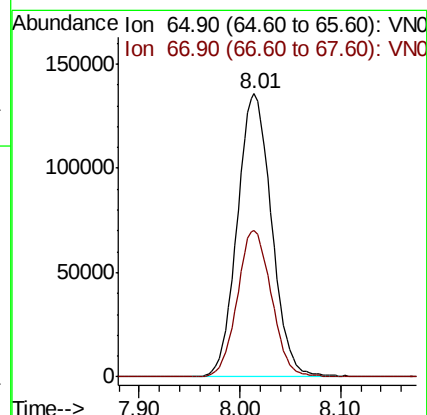
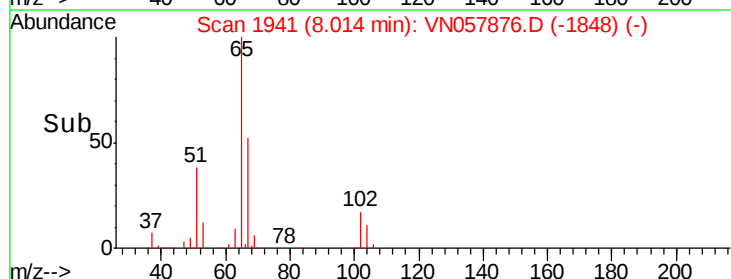
65 100

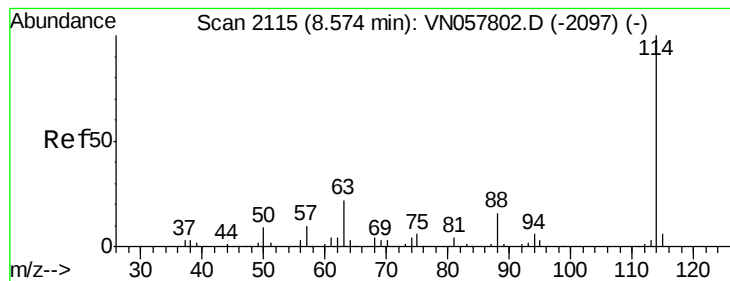
67 51.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

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PAR-11-D4-(0)

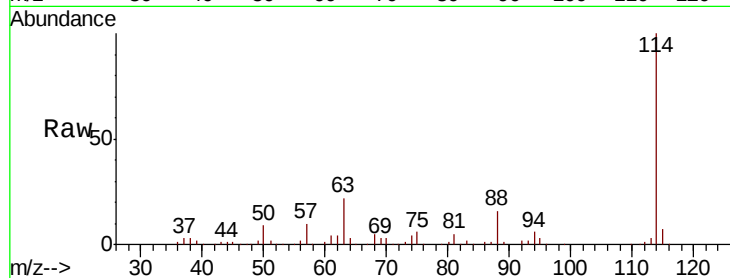
Tgt Ion:114 Resp: 485360

Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

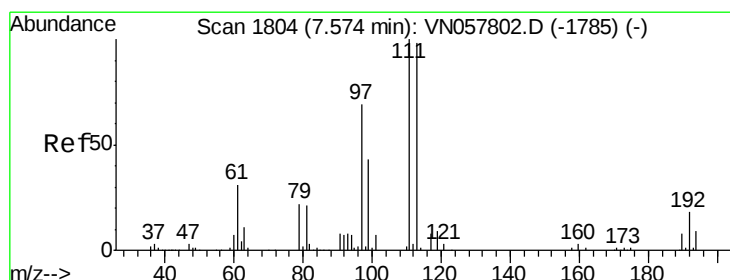
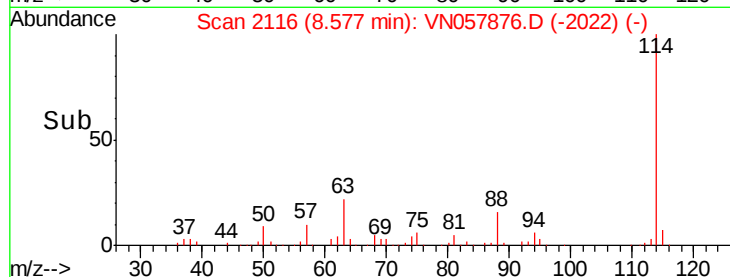
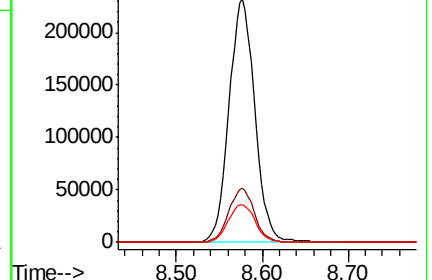
88 15.7 0.0 31.4



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: 48.262 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

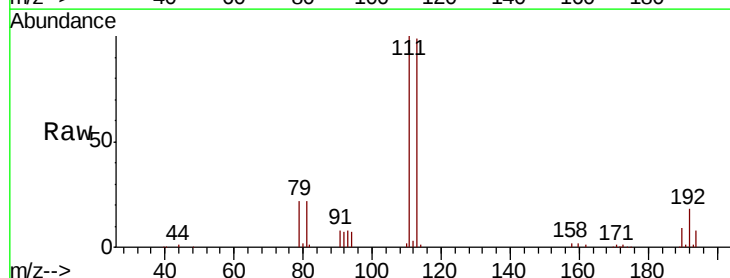
Tgt Ion:113 Resp: 216199

Ion Ratio Lower Upper

113 100

111 103.3 81.3 121.9

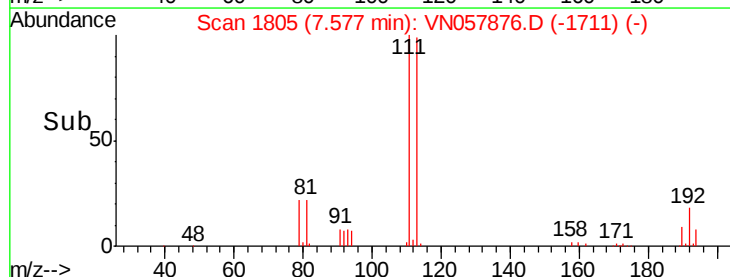
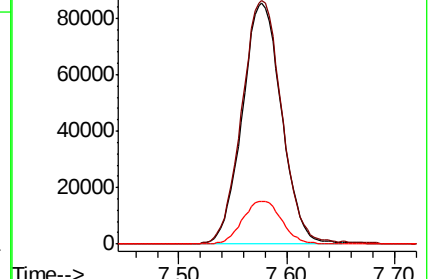
192 17.7 14.6 22.0

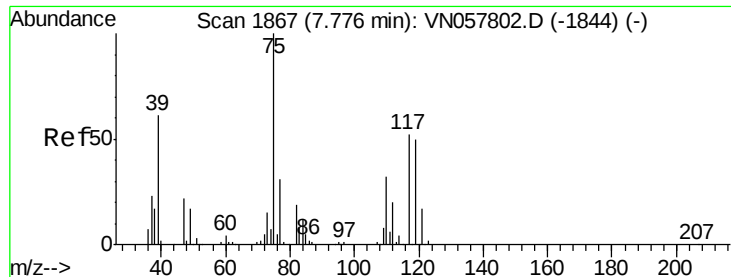


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

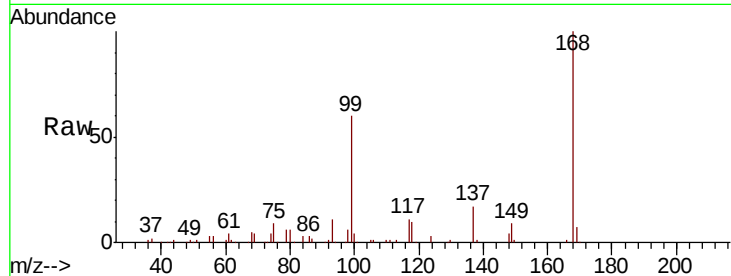




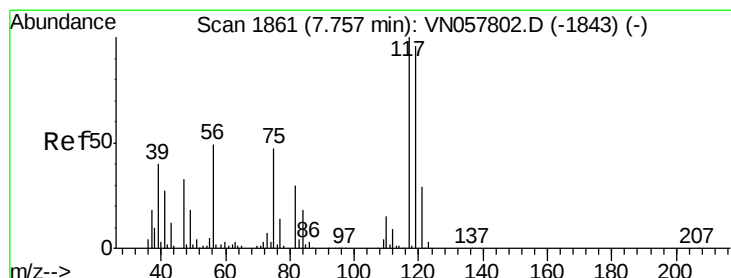
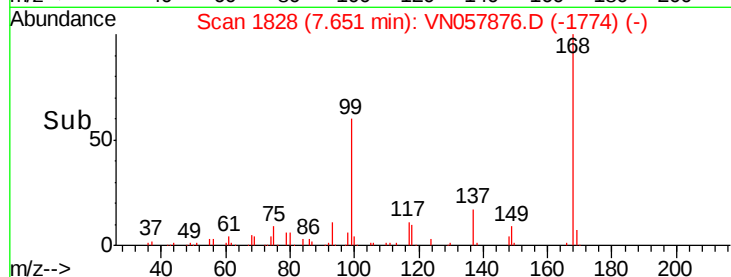
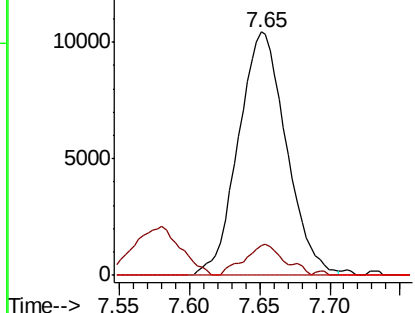
#36
 1,1-Dichloropropene
 Concen: 4.399 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-D4-(0)

Tgt Ion: 75 Resp: 24759
 Ion Ratio Lower Upper
 75 100
 110 10.5 16.3 48.9#
 77 0.0 25.0 37.4#

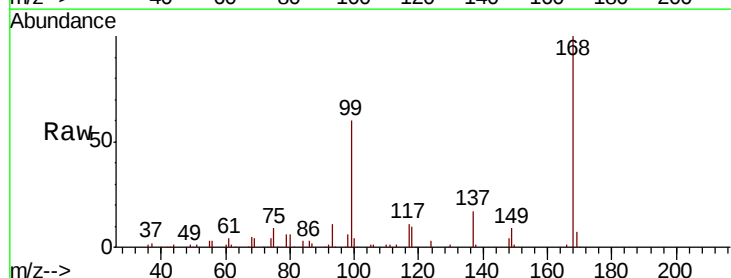


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

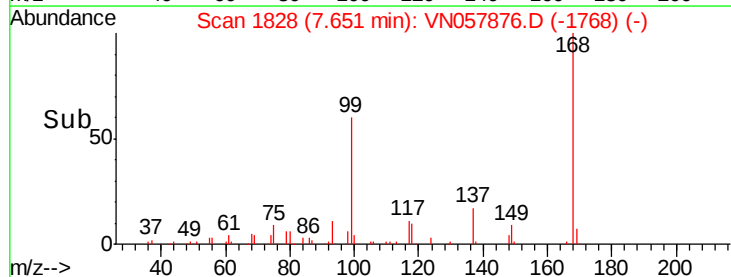
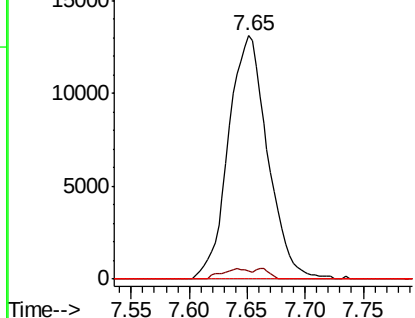


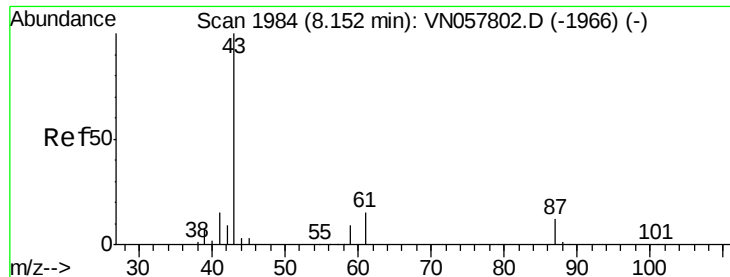
#38
 Carbon Tetrachloride
 Concen: 5.981 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

Tgt Ion: 117 Resp: 30735
 Ion Ratio Lower Upper
 117 100
 119 3.3 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: 4.499 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(0)

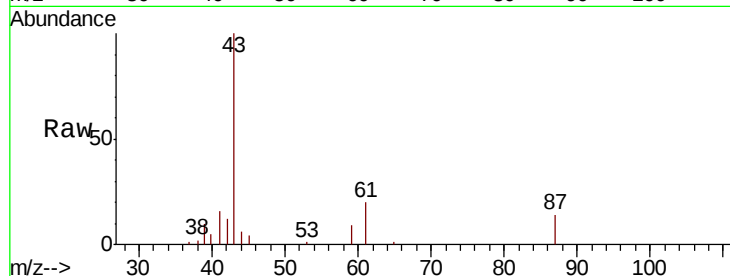
Tgt Ion: 43 Resp: 43997

Ion Ratio Lower Upper

43 100

61 18.1 20.1 30.1#

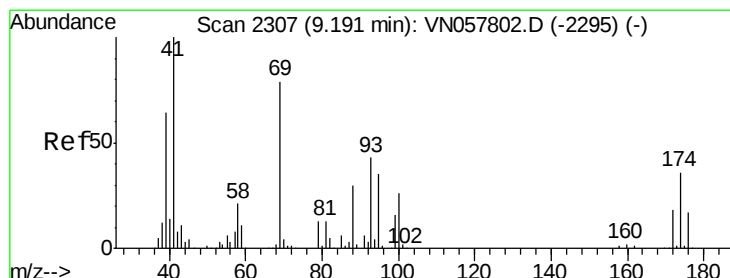
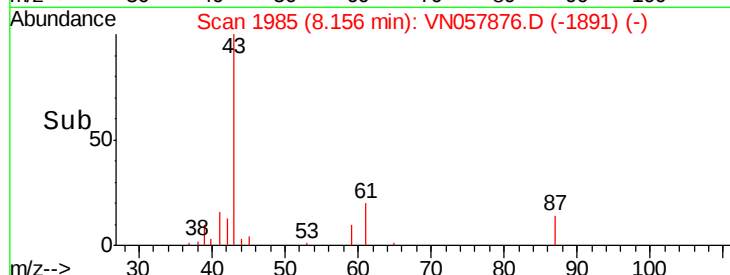
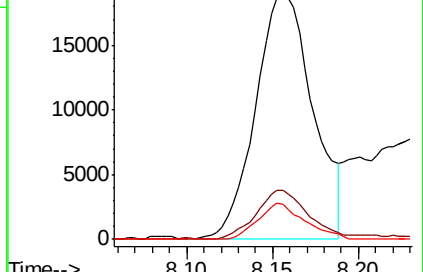
87 11.8 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN057876.D (-1984) (-)

Ion 61.00 (60.70 to 61.70): VN057876.D (-1984) (-)

Ion 87.00 (86.70 to 87.70): VN057876.D (-1984) (-)



#48

Methyl methacrylate

Concen: 0.882 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

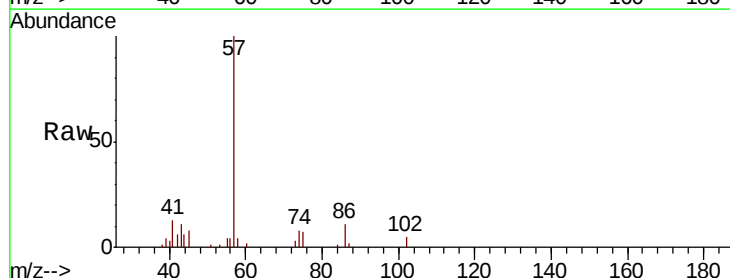
Tgt Ion: 41 Resp: 4376

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

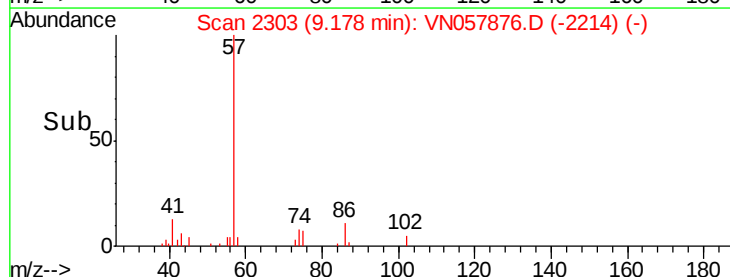
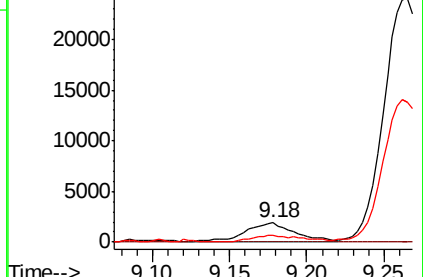
39 35.4 52.7 79.1#

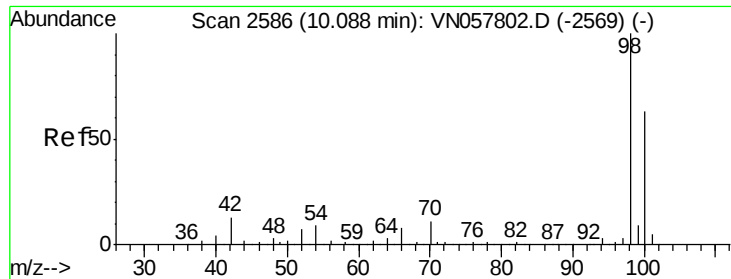


Abundance Ion 41.00 (40.70 to 41.70): VN057876.D (-2295) (-)

Ion 69.00 (68.70 to 69.70): VN057876.D (-2295) (-)

Ion 39.00 (38.70 to 39.70): VN057876.D (-2295) (-)





#50

Toluene-d8

Concen: 51.245 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

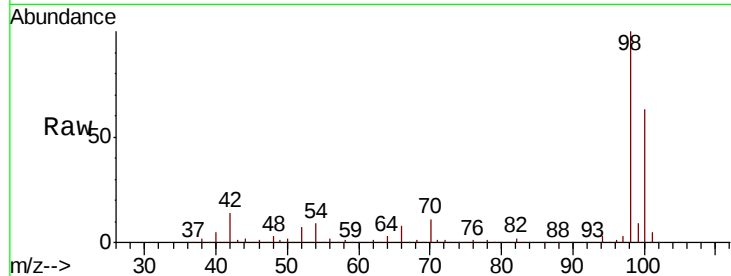
PAR-11-D4-(0)

Tgt Ion: 98 Resp: 891278

Ion Ratio Lower Upper

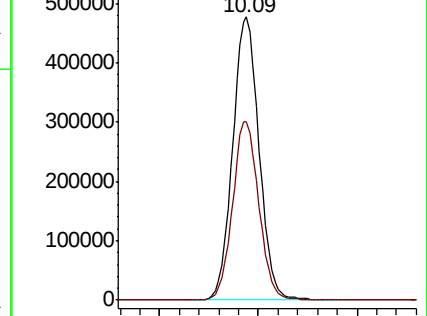
98 100

100 62.7 50.3 75.5

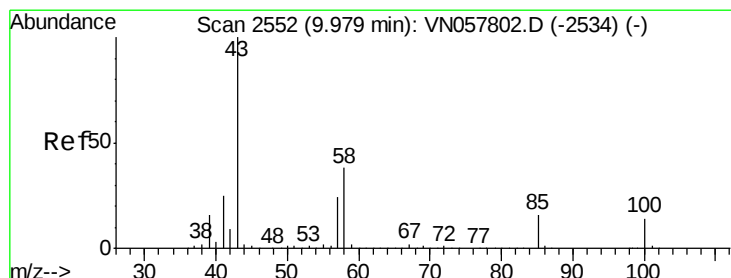
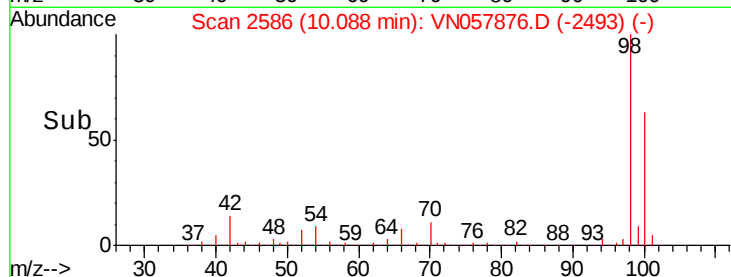


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.729 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057876.D

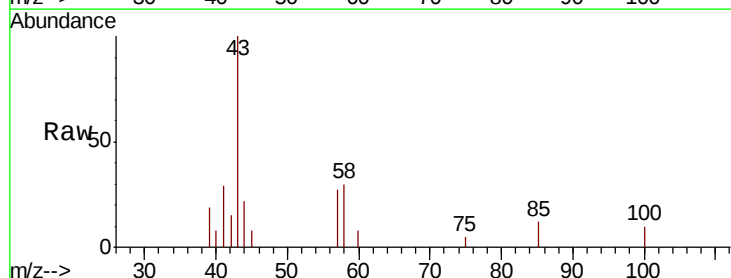
Acq: 10 Sep 2019 20:20

Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

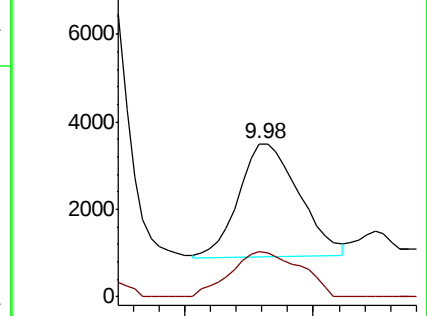
43 100

58 46.7 29.8 44.6#

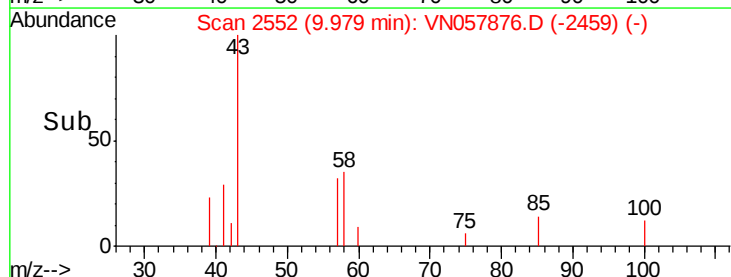


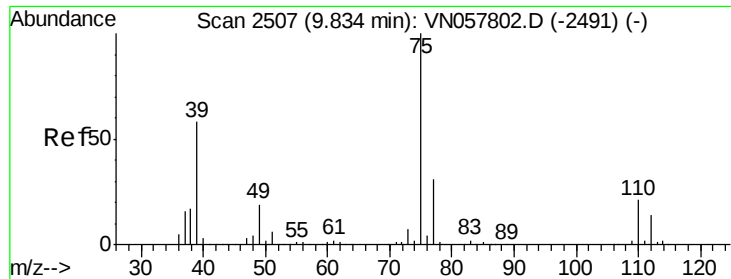
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



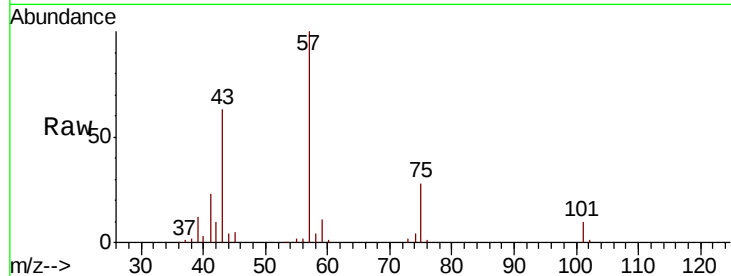


#54

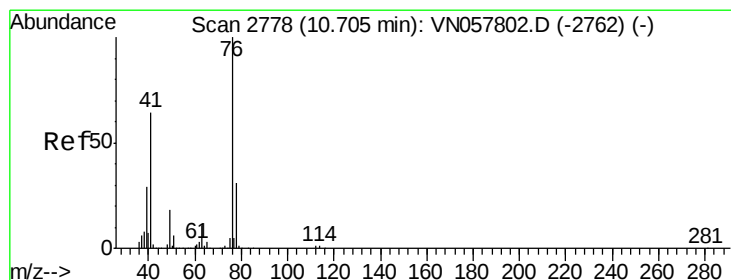
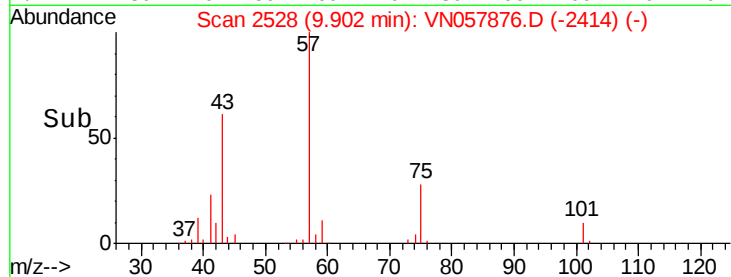
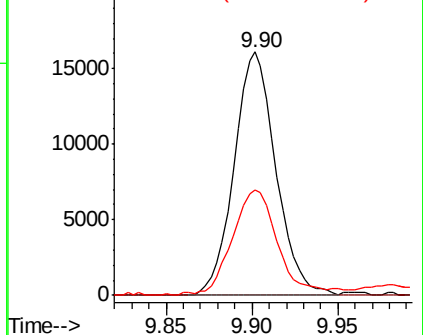
cis-1,3-Dichloropropene
 Concen: 3.927 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(0)

Tgt Ion: 75 Resp: 27171
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 42.3 46.2 69.4#



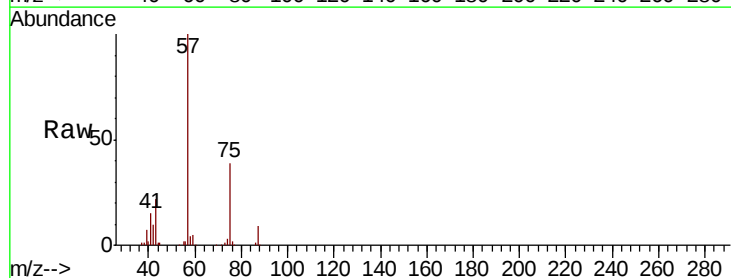
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



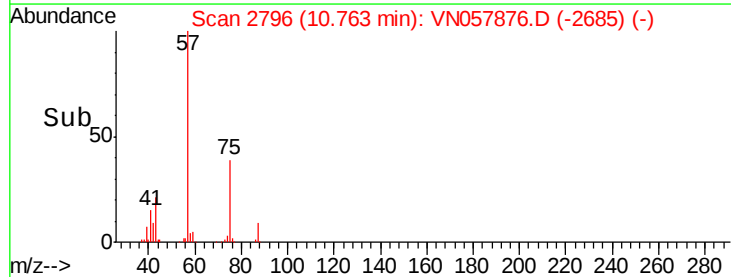
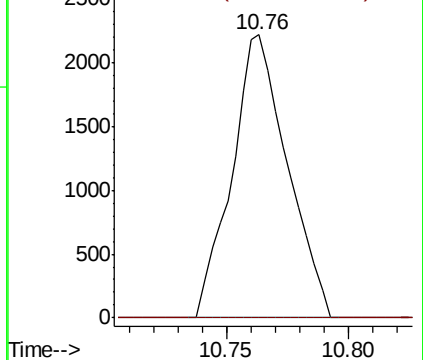
#57

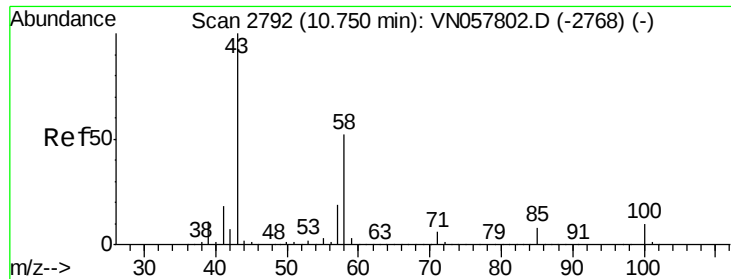
1,3-Dichloropropane
 Concen: 0.449 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

Tgt Ion: 76 Resp: 3496
 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

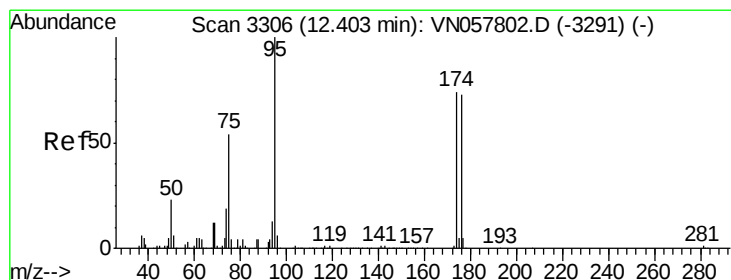
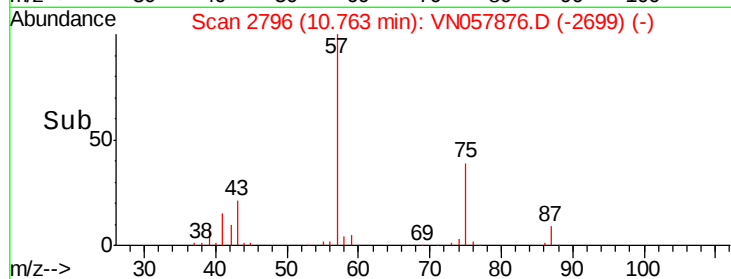
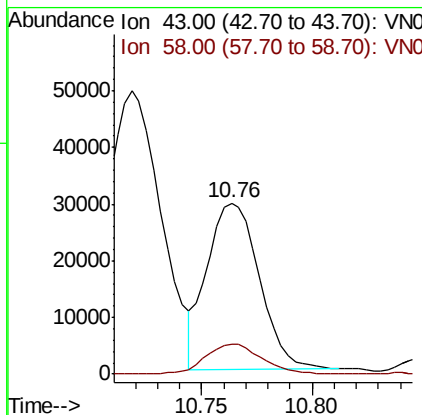
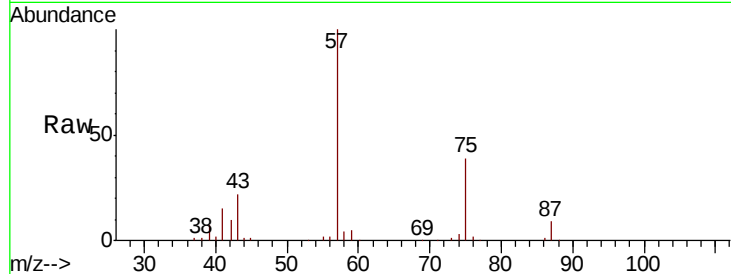




#59
 2-Hexanone
 Concen: 11.126 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

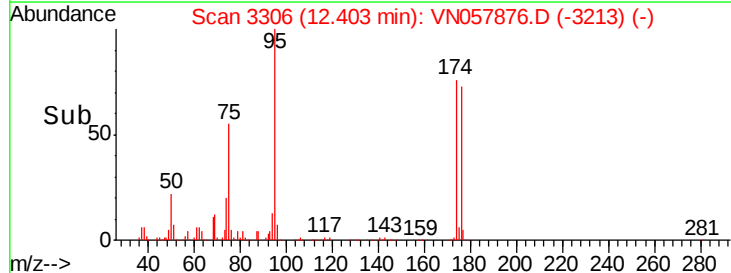
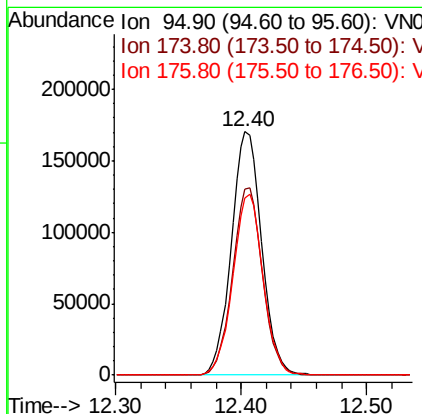
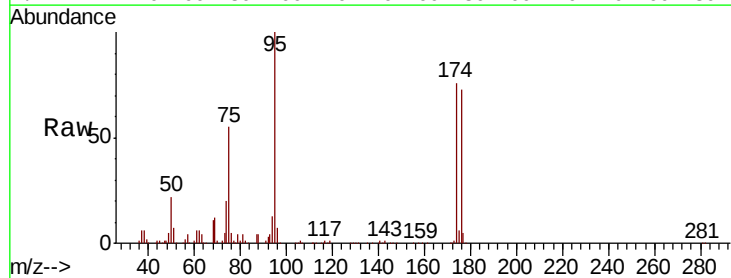
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-D4-(0)

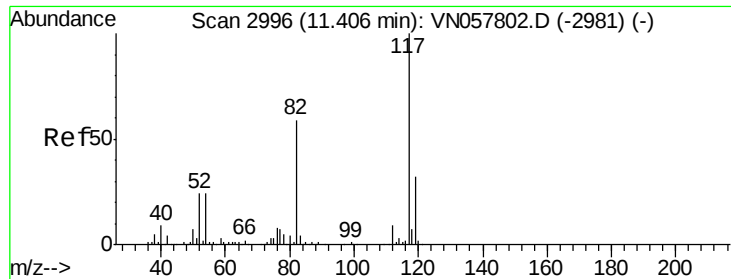
Tgt Ion: 43 Resp: 48263
 Ion Ratio Lower Upper
 43 100
 58 19.5 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.065 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057876.D
 Acq: 10 Sep 2019 20:20

Tgt Ion: 95 Resp: 285441
 Ion Ratio Lower Upper
 95 100
 174 75.8 0.0 150.2
 176 74.0 0.0 146.0

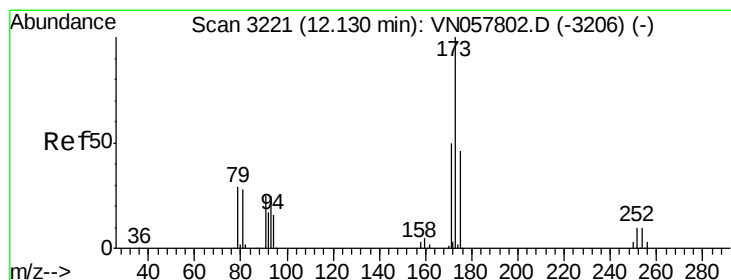
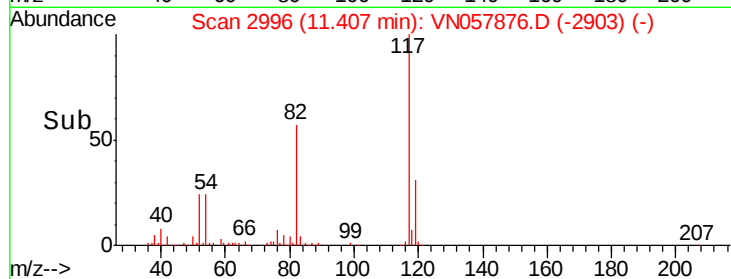
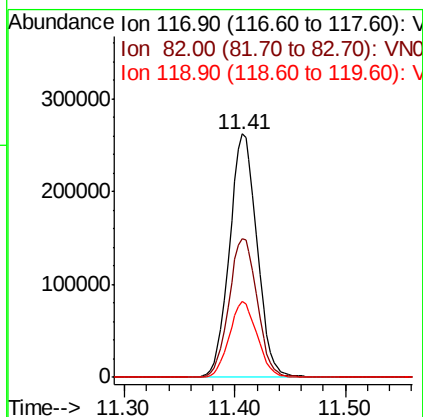
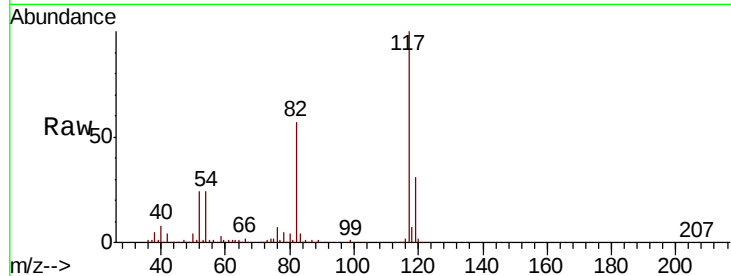




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

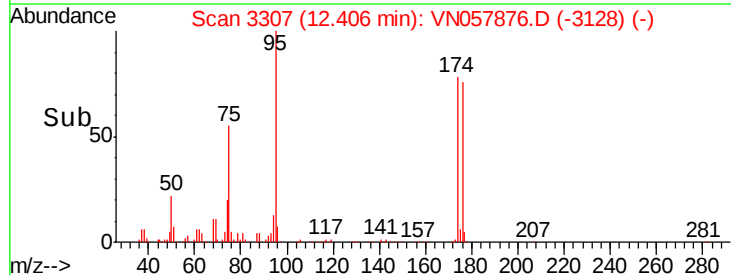
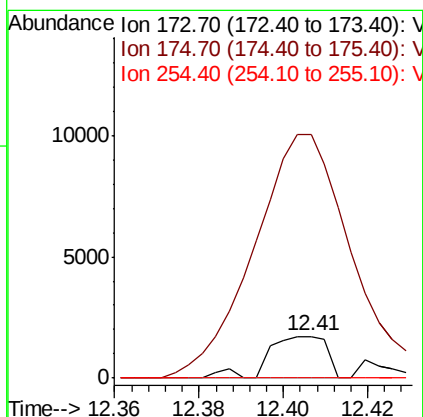
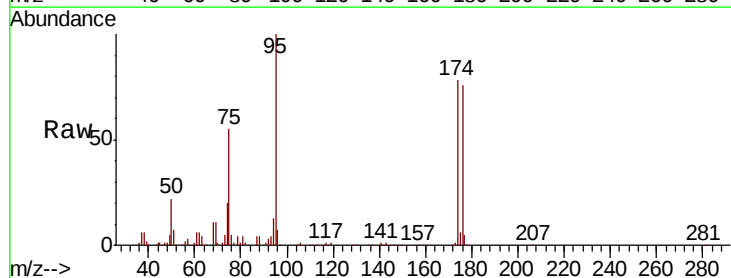
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(0)

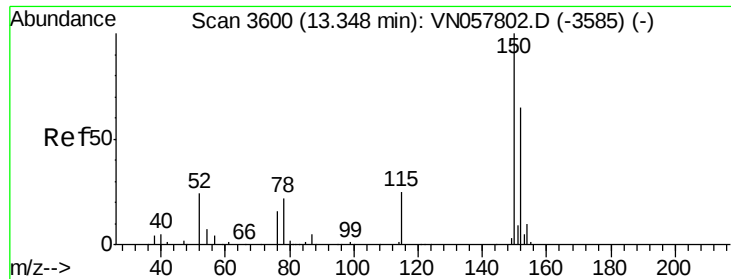
Tgt Ion:117 Resp: 453895
Ion Ratio Lower Upper
117 100
82 57.2 47.2 70.8
119 31.1 25.3 37.9



#71
Bromoform
Concen: 0.641 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

Tgt Ion:173 Resp: 1648
Ion Ratio Lower Upper
173 100
175 860.6 23.5 70.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-D4-(0)

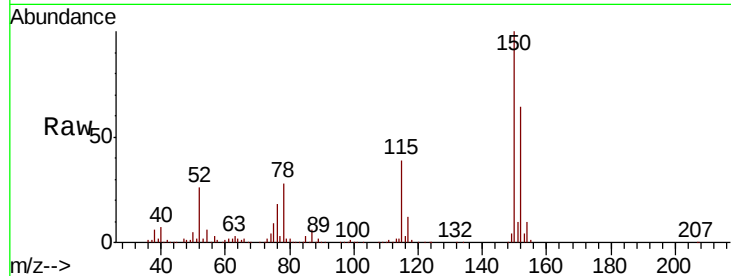
Tgt Ion:152 Resp: 231127

Ion Ratio Lower Upper

152 100

115 61.4 30.3 91.0

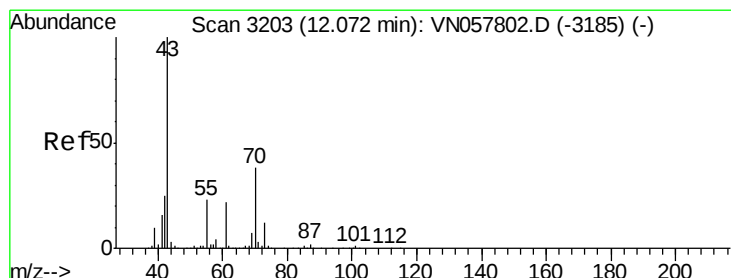
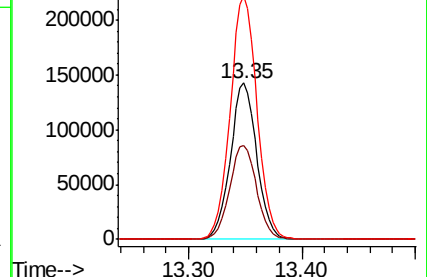
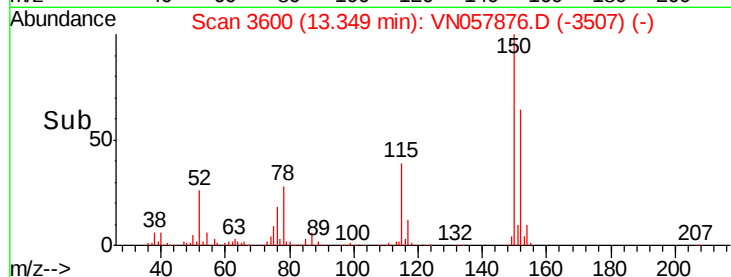
150 158.0 0.0 352.4



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-ethyl acetate

Concen: 0.404 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Tgt Ion: 43 Resp: 3150

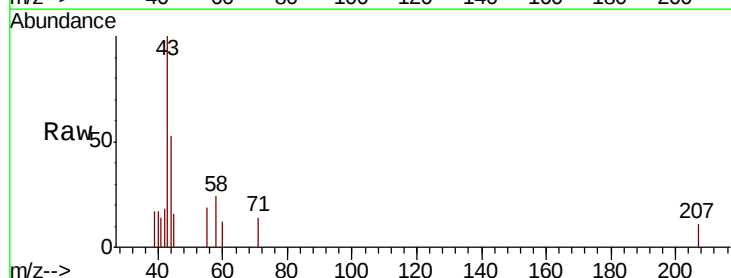
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.1 18.6 27.8#

61 0.0 17.4 26.2#

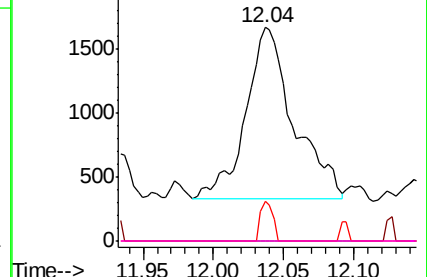
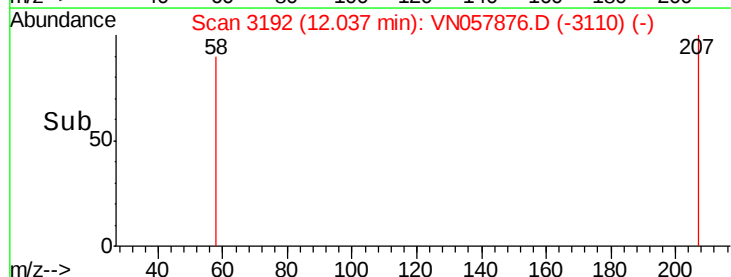


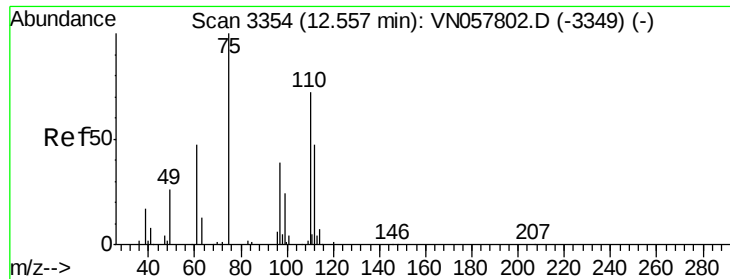
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.260 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057876.D

Acq: 10 Sep 2019 20:20

Instrument :

MSVOA_N

ClientSampled :

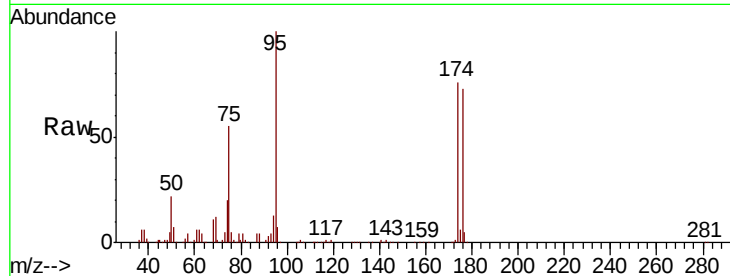
PAR-11-D4-(0)

Tgt Ion: 75 Resp: 158216

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

100000

80000

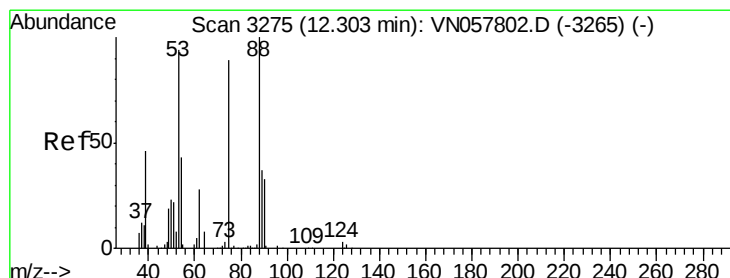
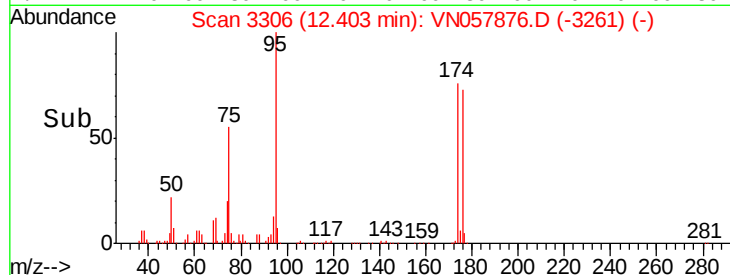
60000

40000

20000

0

Time-->



#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: VN057876.D

Acq: 10 Sep 2019 20:20

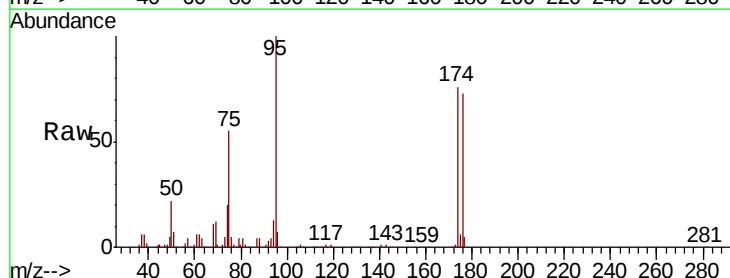
Tgt Ion: 75 Resp: 158216

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

120000

100000

80000

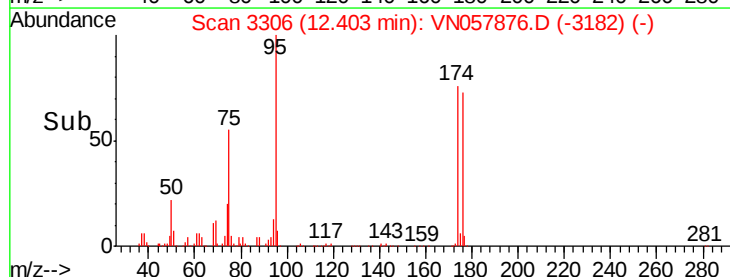
60000

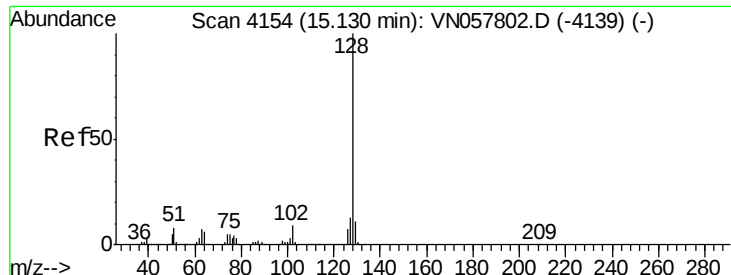
40000

20000

0

Time-->

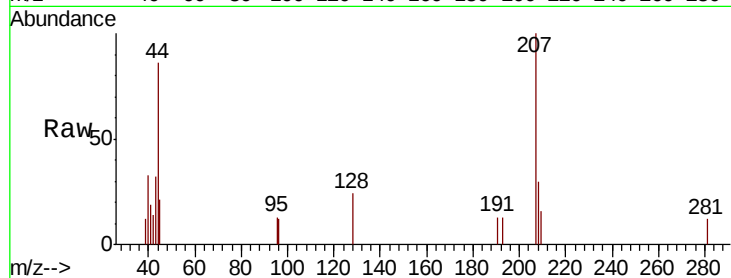




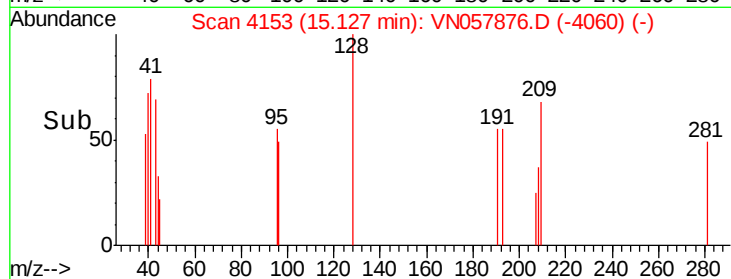
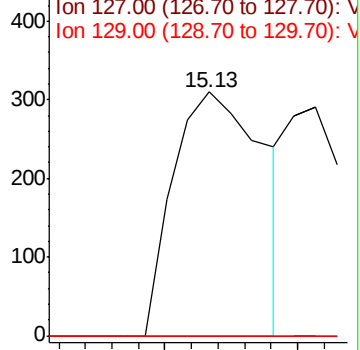
#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN057876.D
Acq: 10 Sep 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-D4-(0)

Tgt Ion:128 Resp: 295
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



Time-->