

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059856.D
 Acq On : 24 Jan 2020 19:25
 Operator : JC/MD
 Sample : PB126303ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:31:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200602	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	304189	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	105029	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	105236	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
35) Dibromofluoromethane	7.57	113	91519	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
50) Toluene-d8	10.08	98	355743	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.40	95	113892	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	

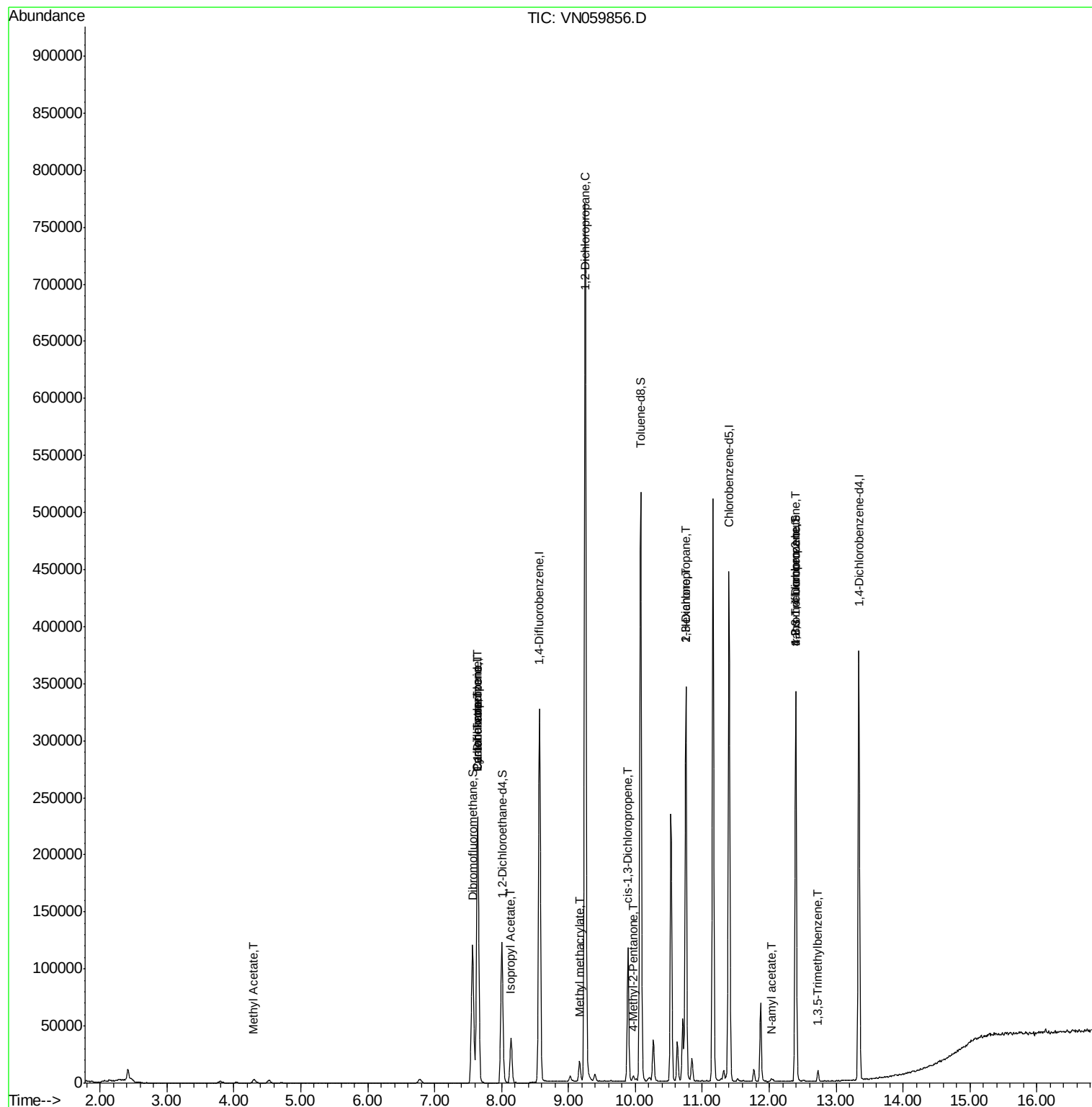
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3137	Below Cal		90
18) Methyl Acetate	4.30	43	7096	2.727	ug/l	99
20) Methylene Chloride	4.52	84	2184	Below Cal	#	81
31) Cyclohexane	7.64	56	3707	1.125	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13572	5.123	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18086	6.276	ug/l #	16
43) Isopropyl Acetate	8.14	43	44682	10.456	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	849	0.434	ug/l #	44
48) Methyl methacrylate	9.16	41	2316	1.212	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2781	1.126	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	22028	6.747	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3495	1.114	ug/l #	42
59) 2-Hexanone	10.75	43	47128	25.896	ug/l #	54
74) N-amyl acetate	12.03	43	2291	0.766	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	57326	32.433	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5761	0.889	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	57326	69.650	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.41	75	90	Below Cal	#	6

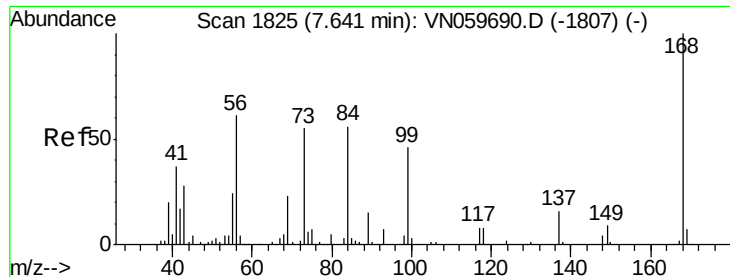
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 24 Jan 2020 19:25
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QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

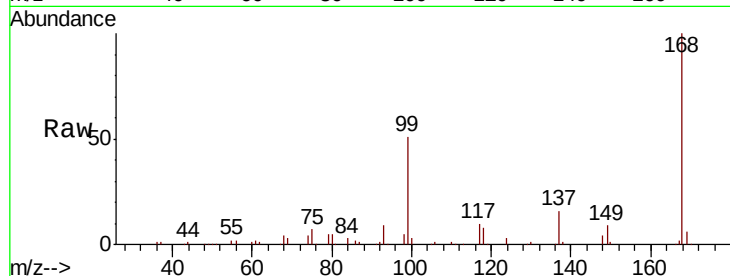
ClientSampleId :

Tot Ion:168 Resp: 200602

Ion Ratio Lower Upper

168 100

99 51.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

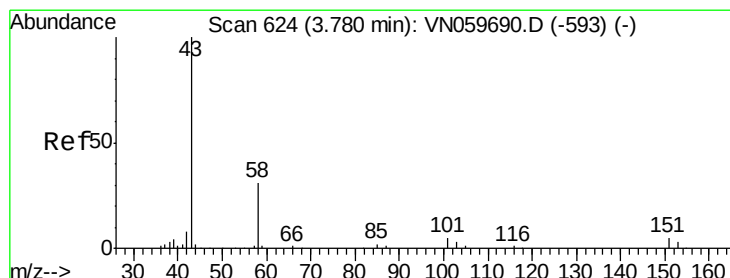
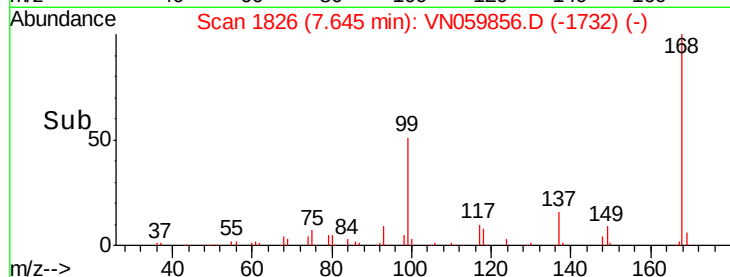
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059856.D

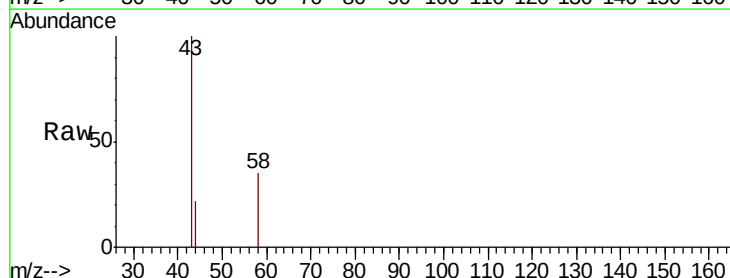
Acq: 24 Jan 2020 19:25

Tgt Ion: 43 Resp: 3137

Ion Ratio Lower Upper

43 100

58 34.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

1200

1000

800

600

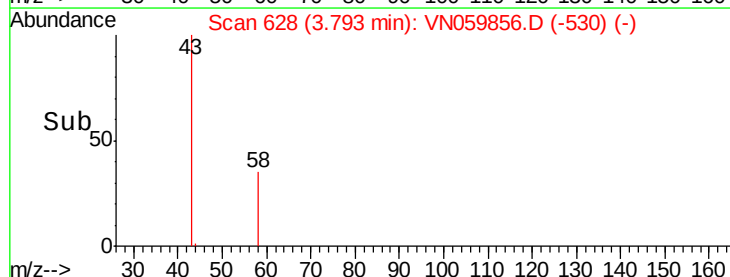
400

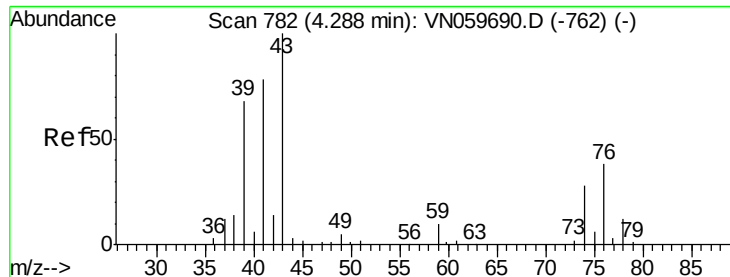
200

0

3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 2.727 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

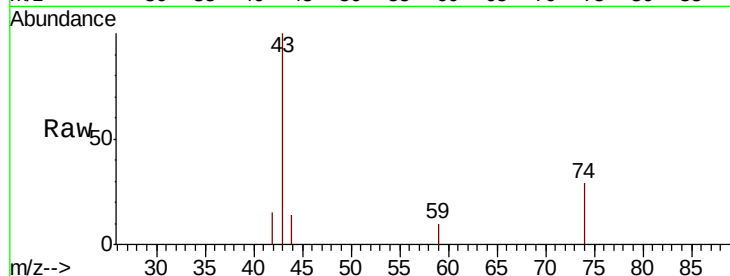
ClientSampleId :

Tot Ion: 43 Resp: 7096

Ion Ratio Lower Upper

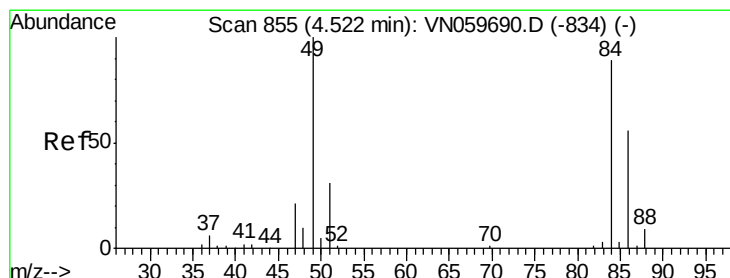
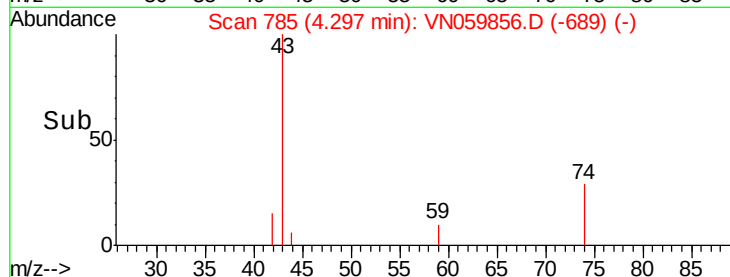
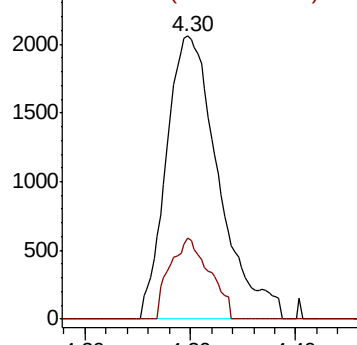
43 100

74 21.6 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VN059856.D (-762) (-)

Ion 74.00 (73.70 to 74.70): VN059856.D (-762) (-)



#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Tgt Ion: 84 Resp: 2184

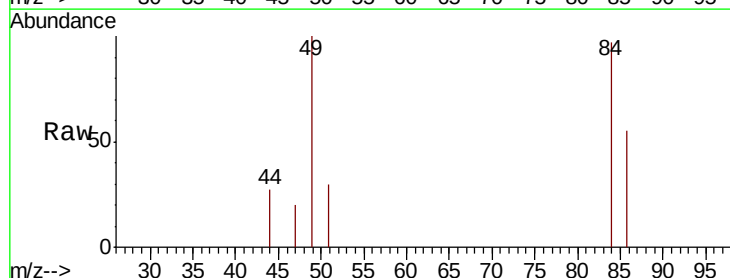
Ion Ratio Lower Upper

84 100

49 102.8 106.6 160.0#

51 31.1 31.9 47.9#

86 56.9 50.8 76.2

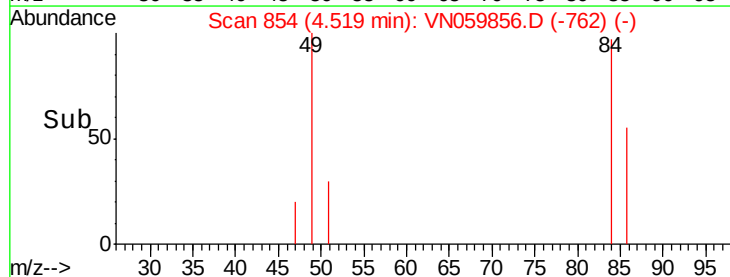
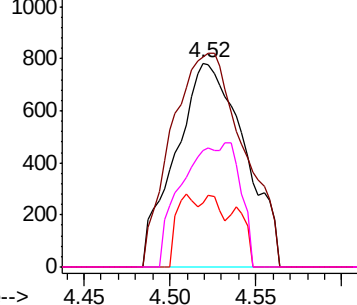


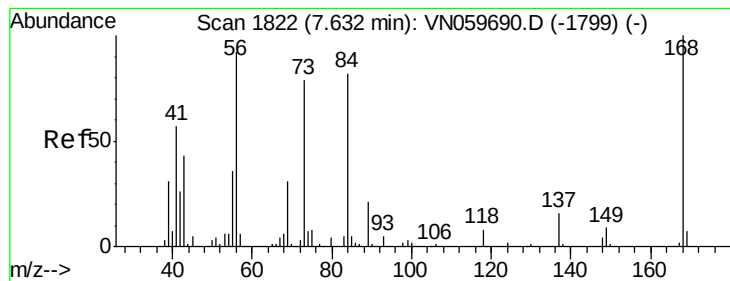
Abundance Ion 83.90 (83.60 to 84.60): VN059856.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN059856.D (-762) (-)

Ion 50.90 (50.60 to 51.60): VN059856.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN059856.D (-762) (-)





#31

Cyclohexane

Concen: 1.125 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

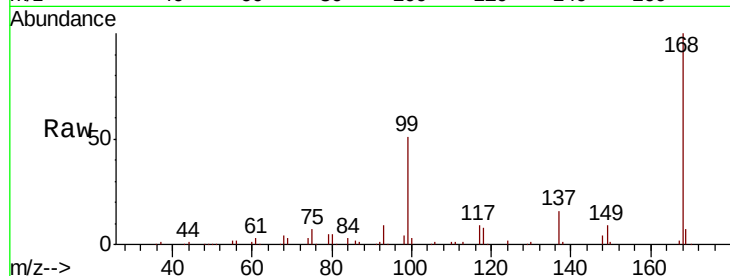
Tot Ion: 56 Resp: 3707

Ion Ratio Lower Upper

56 100

69 160.3 26.5 39.7#

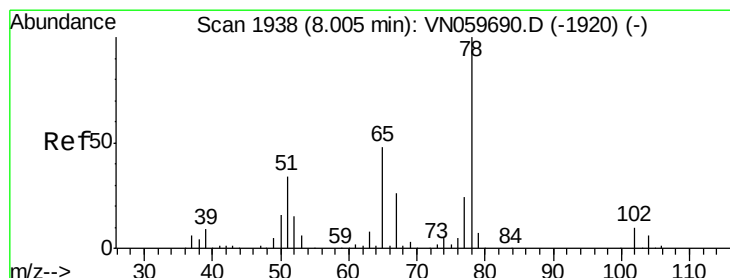
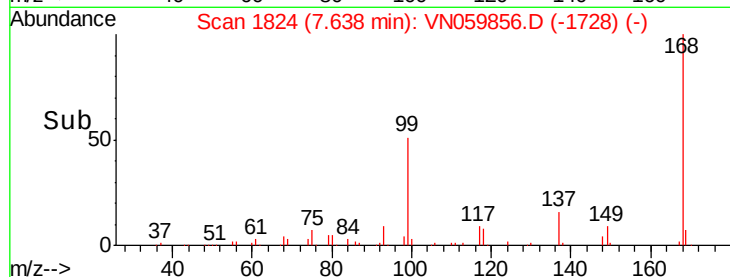
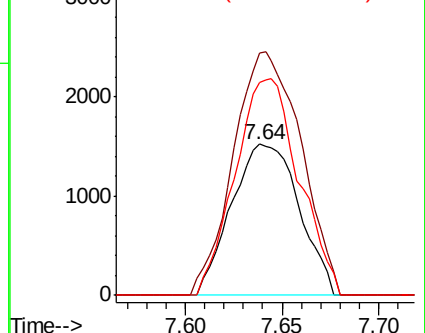
84 140.7 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059856.D (-1728) (-)

Ion 69.00 (68.70 to 69.70): VN059856.D (-1728) (-)

Ion 84.00 (83.70 to 84.70): VN059856.D (-1728) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.239 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059856.D

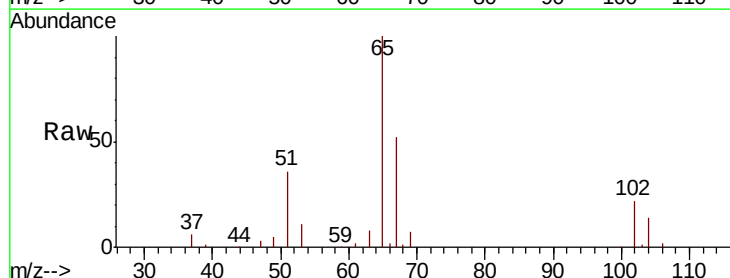
Acq: 24 Jan 2020 19:25

Tgt Ion: 65 Resp: 105236

Ion Ratio Lower Upper

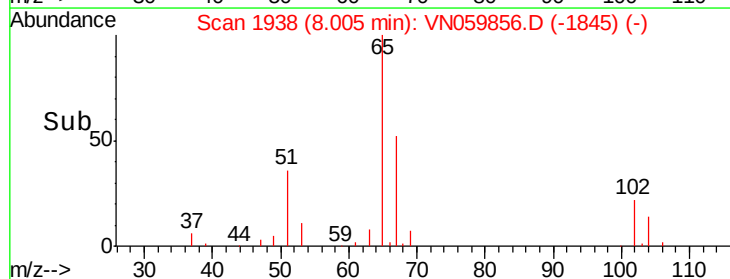
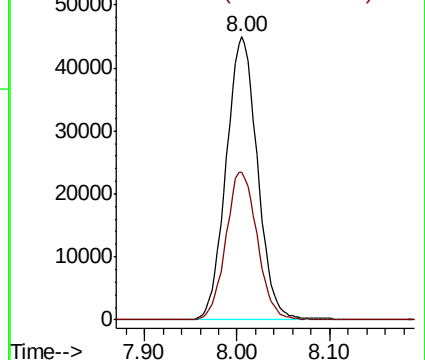
65 100

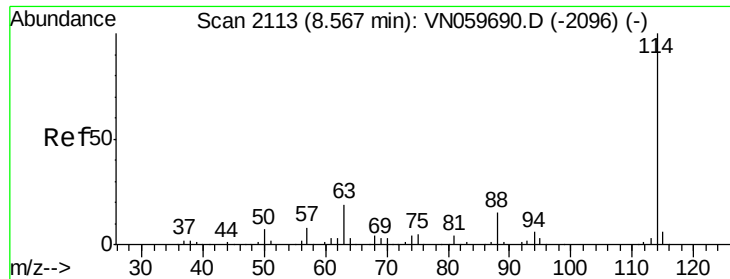
67 52.3 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059856.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059856.D (-1845) (-)

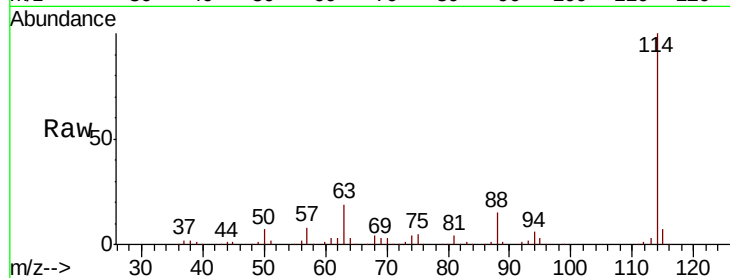




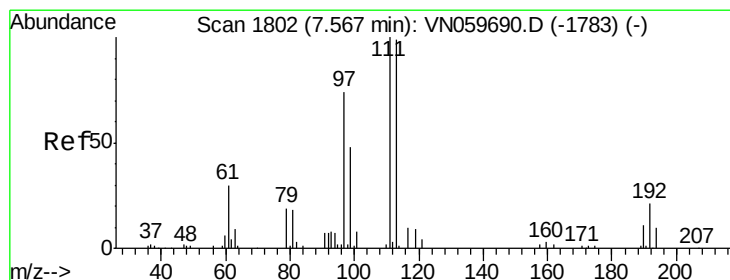
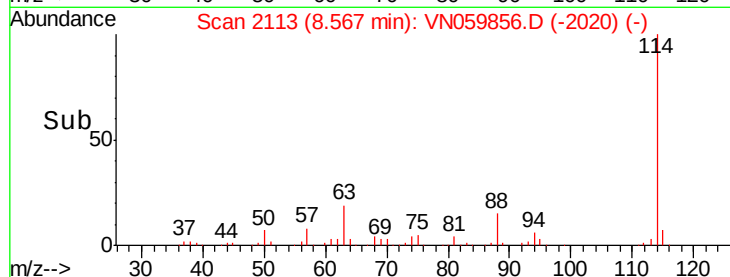
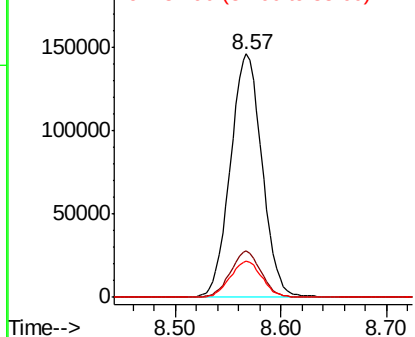
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059856.D
Acq: 24 Jan 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 304189
Ion Ratio Lower Upper
114 100
63 19.0 0.0 43.6
88 14.7 0.0 31.4

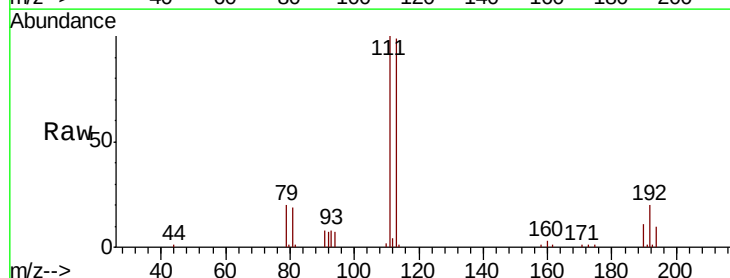


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

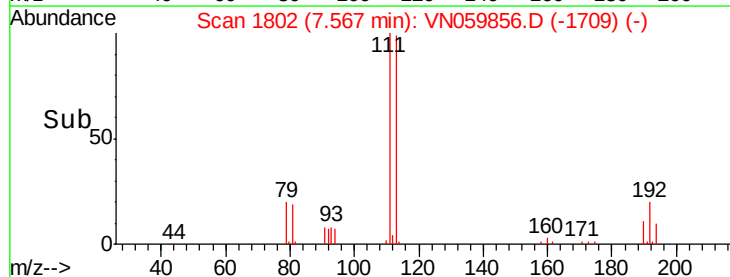
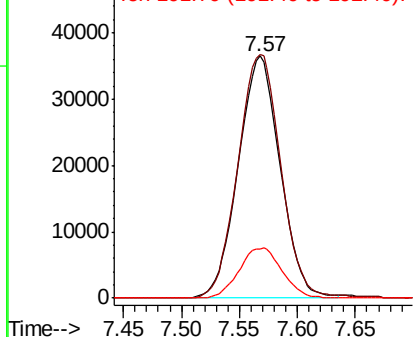


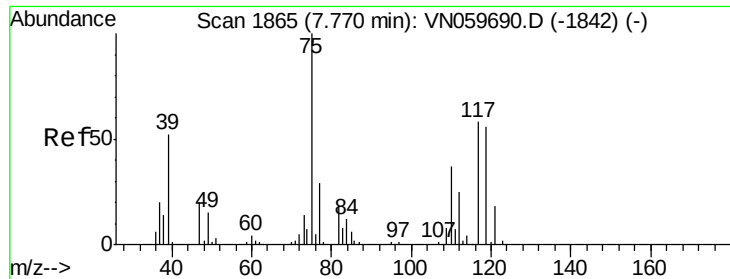
#35
Dibromofluoromethane
Concen: 50.451 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059856.D
Acq: 24 Jan 2020 19:25

Tgt Ion:113 Resp: 91519
Ion Ratio Lower Upper
113 100
111 103.4 83.5 125.3
192 21.2 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

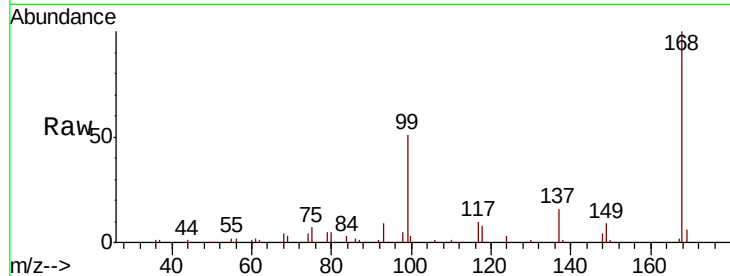




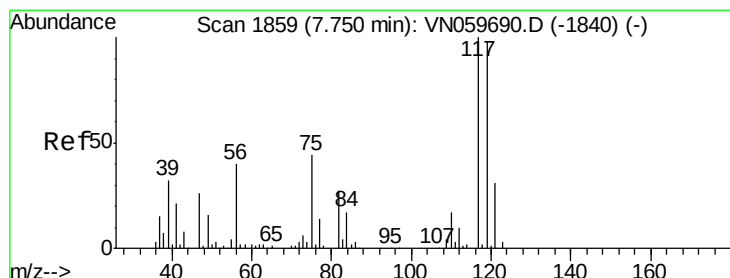
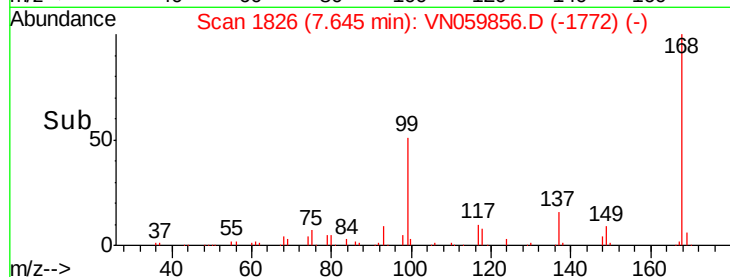
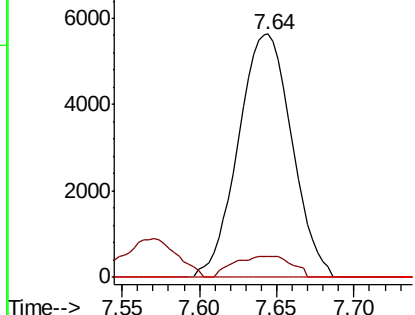
#36
 1,1-Dichloropropene
 Concen: 5.123 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	13572
Ion Ratio	Lower	Upper	
75	100		
110	9.3	16.6	49.7#
77	0.0	25.1	37.7#

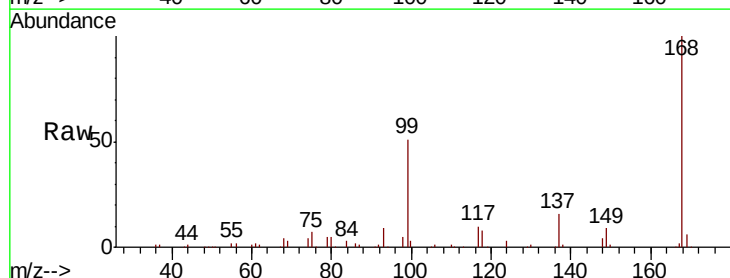


Abundance Ion 74.90 (74.60 to 75.60): VN059856.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059856.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059856.D (-1772) (-)

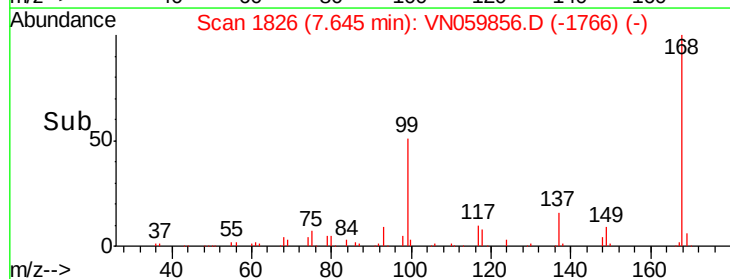
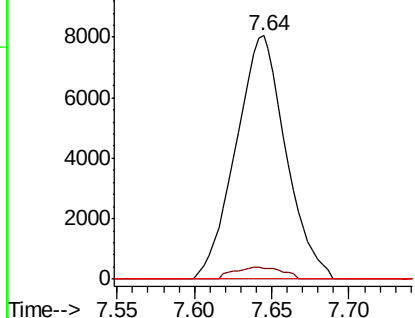


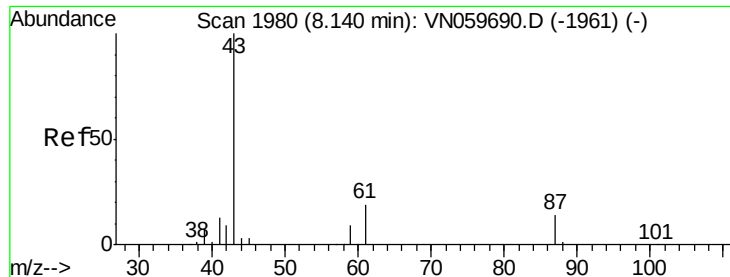
#38
 Carbon Tetrachloride
 Concen: 6.276 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

Tgt Ion	117	Resp	18086
Ion Ratio	Lower	Upper	
117	100		
119	4.6	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059856.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059856.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059856.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 10.456 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

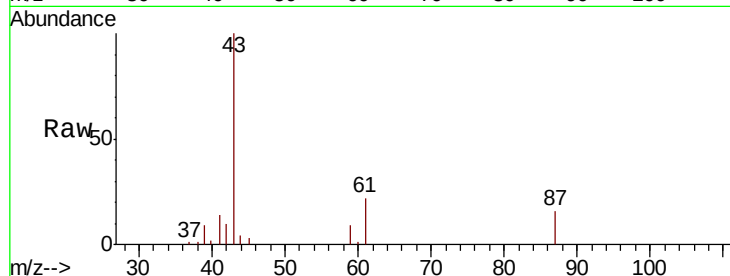
Tot Ion: 43 Resp: 44682

Ion Ratio Lower Upper

43 100

61 20.4 20.2 30.2

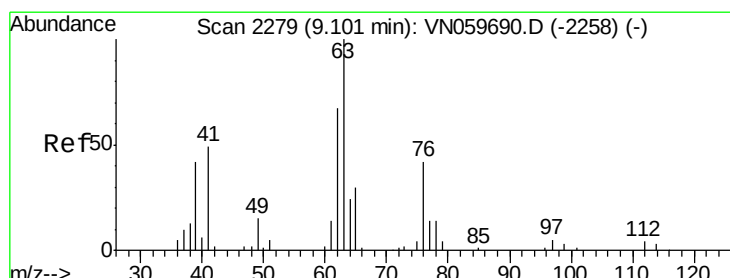
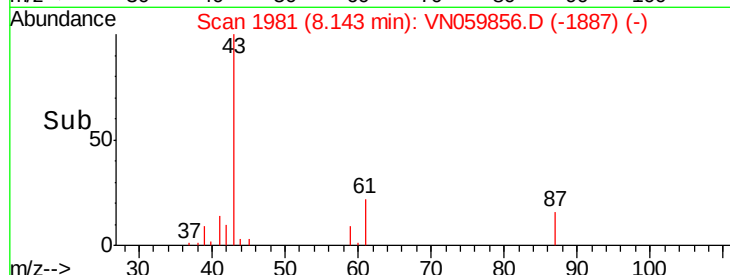
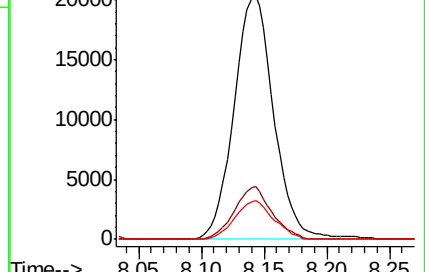
87 15.3 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059856.D (-1981) (-)

Ion 61.00 (60.70 to 61.70): VN059856.D (-1981) (-)

Ion 87.00 (86.70 to 87.70): VN059856.D (-1981) (-)



#45

1,2-Dichloropropane

Concen: 0.434 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059856.D

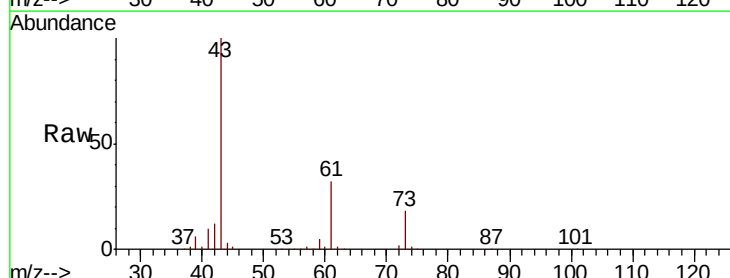
Acq: 24 Jan 2020 19:25

Tgt Ion: 63 Resp: 849

Ion Ratio Lower Upper

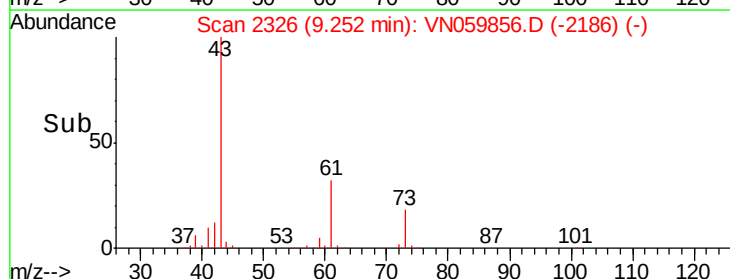
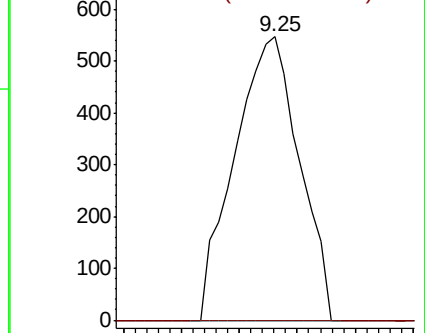
63 100

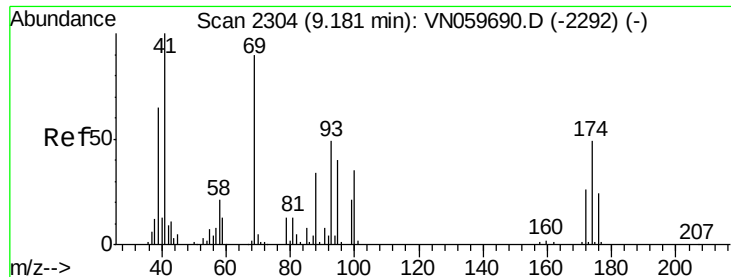
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059856.D (-2326) (-)

Ion 64.90 (64.60 to 65.60): VN059856.D (-2326) (-)

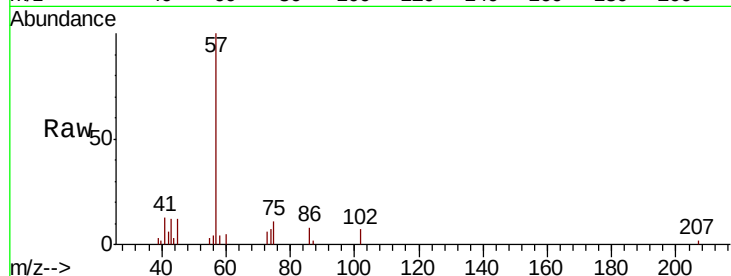




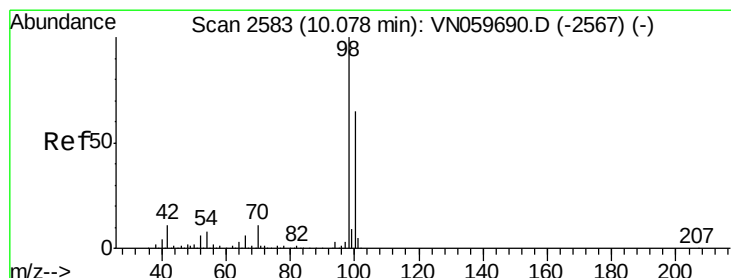
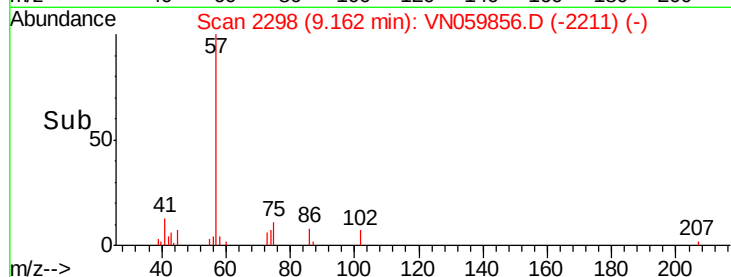
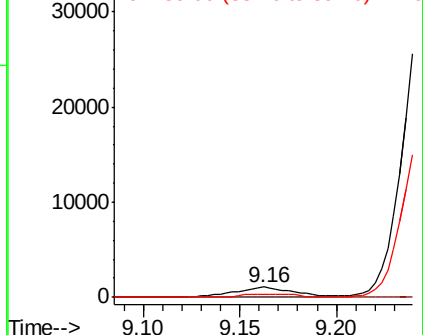
#48
Methvl methacrylate
Concen: 1.212 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059856.D
Acq: 24 Jan 2020 19:25

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2316
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

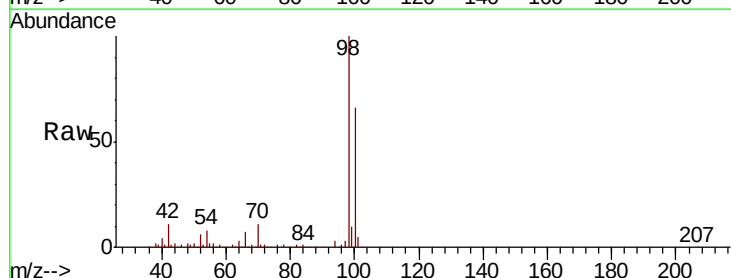


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

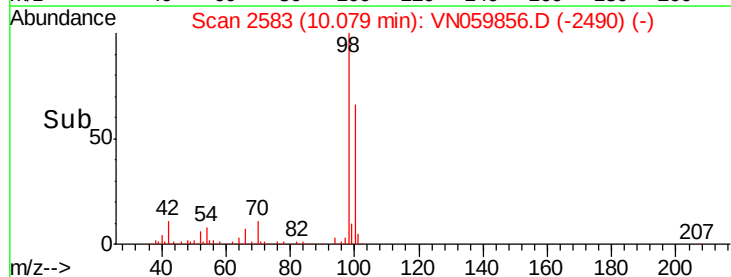
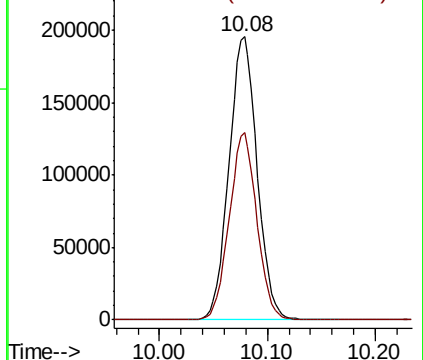


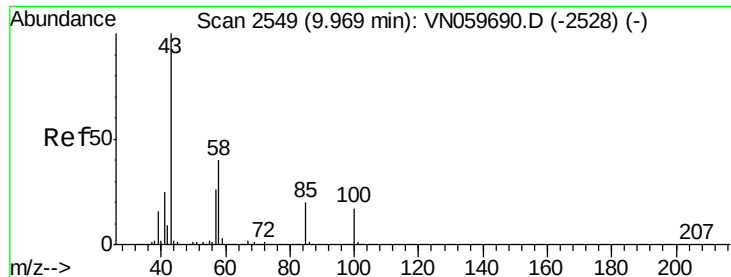
#50
Toluene-d8
Concen: 50.615 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059856.D
Acq: 24 Jan 2020 19:25

Tgt Ion: 98 Resp: 355743
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

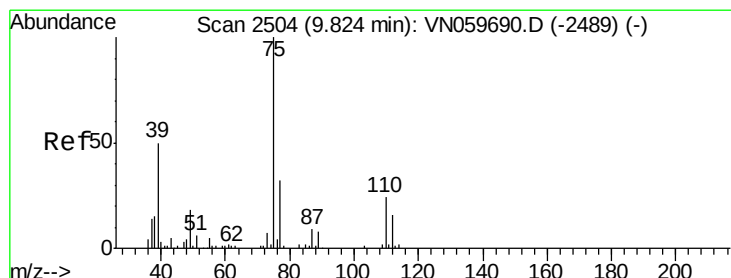
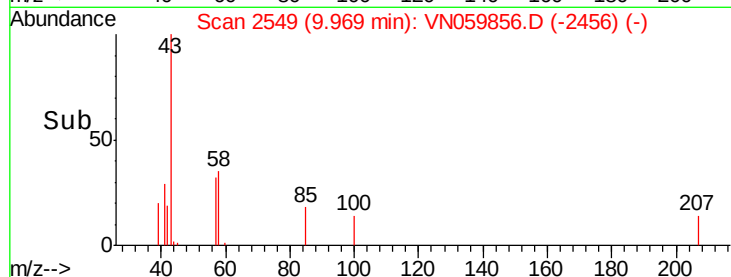
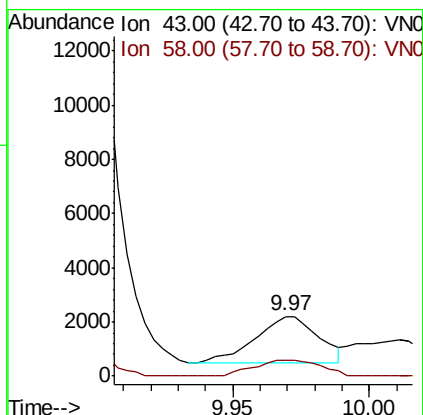
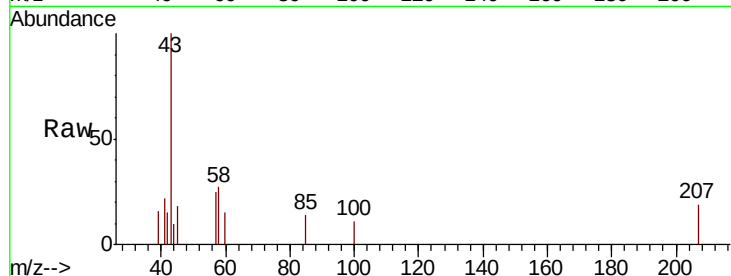




#51
 4-Methyl-2-Pentanone
 Concen: 1.126 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

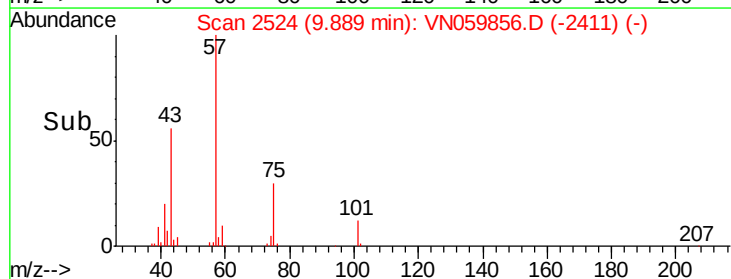
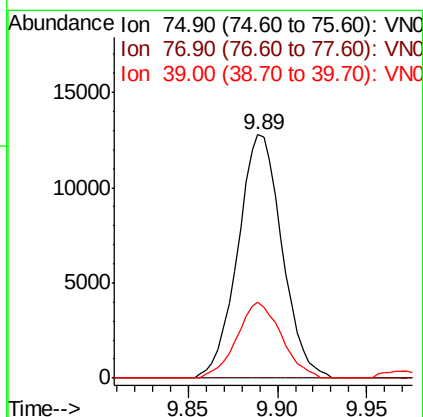
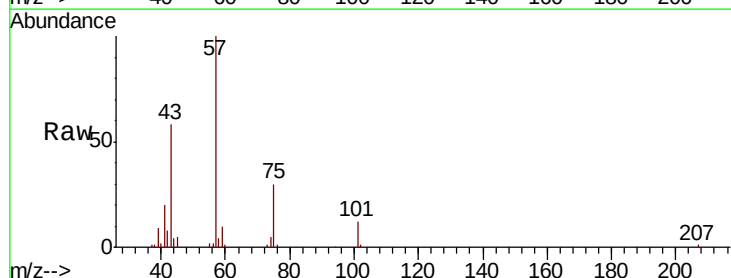
Instrument :
 MSVOA_N
 ClientSampled :

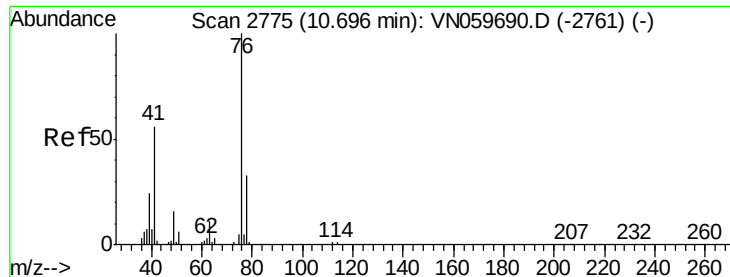
Tot Ion: 43 Resp: 2781
 Ion Ratio Lower Upper
 43 100
 58 35.8 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 6.747 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

Tgt Ion: 75 Resp: 22028
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 31.0 46.1 69.1#

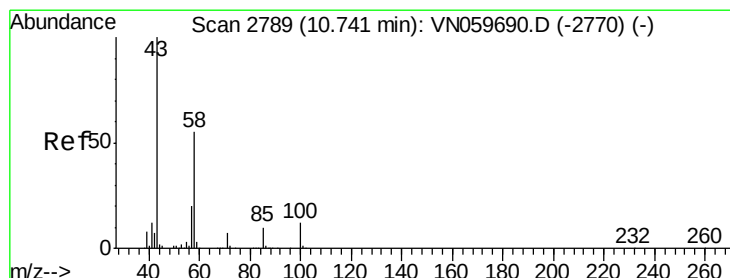
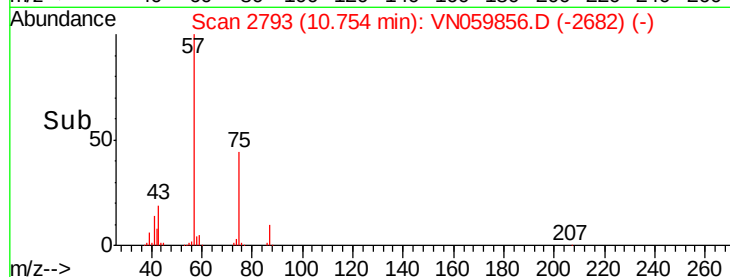
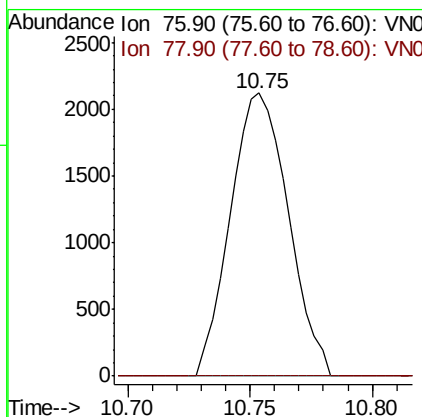
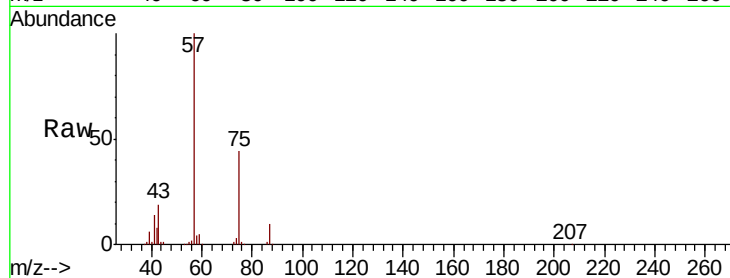




#57
 1,3-Dichloropropane
 Concen: 1.114 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

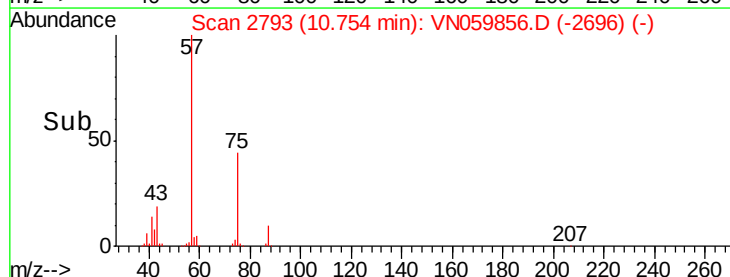
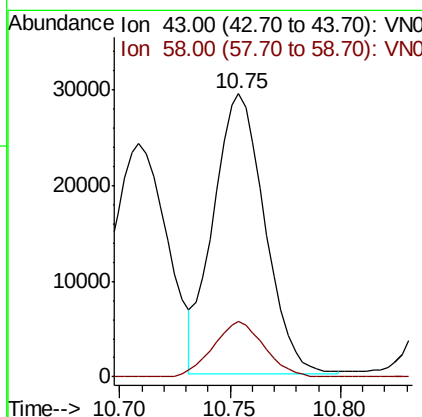
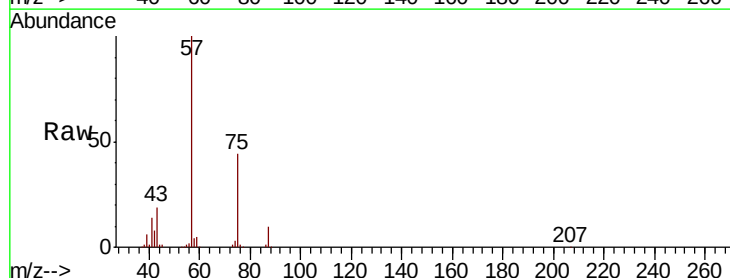
Instrument :
 MSVOA_N
 ClientSampled :

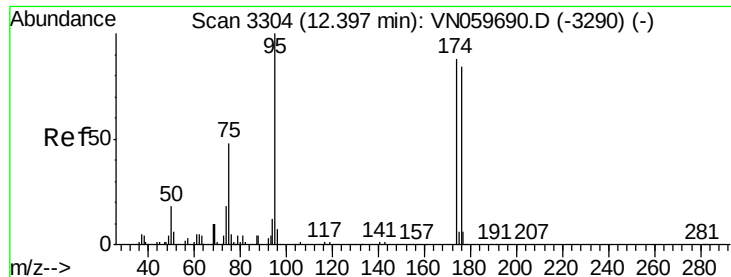
Tot Ion: 76 Resp: 3495
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 25.896 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059856.D
 Acq: 24 Jan 2020 19:25

Tgt Ion: 43 Resp: 47128
 Ion Ratio Lower Upper
 43 100
 58 19.6 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 44.950 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

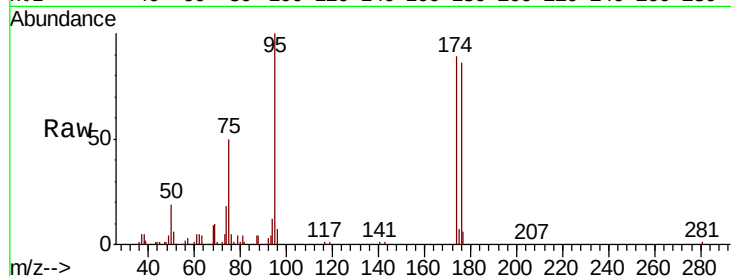
Tot Ion: 95 Resp: 113892

Ion Ratio Lower Upper

95 100

174 88.8 0.0 151.4

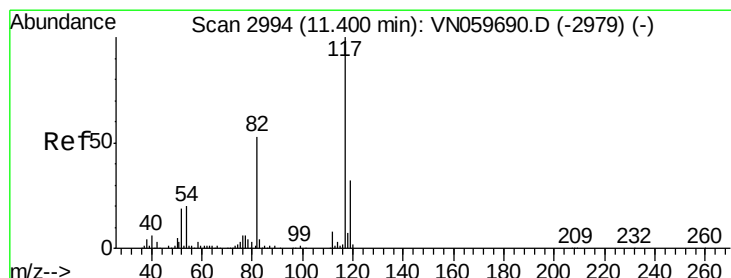
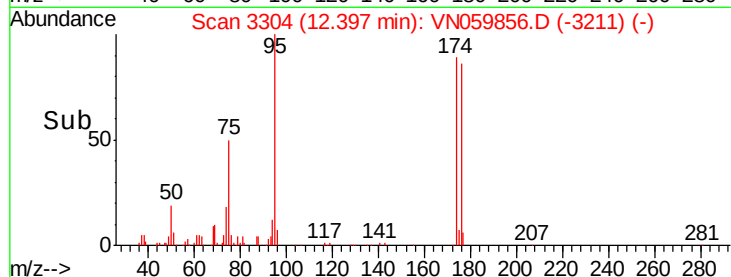
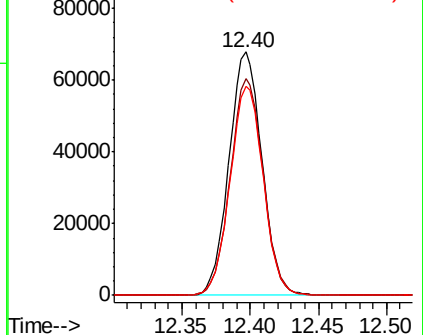
176 86.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059856.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059856.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059856.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

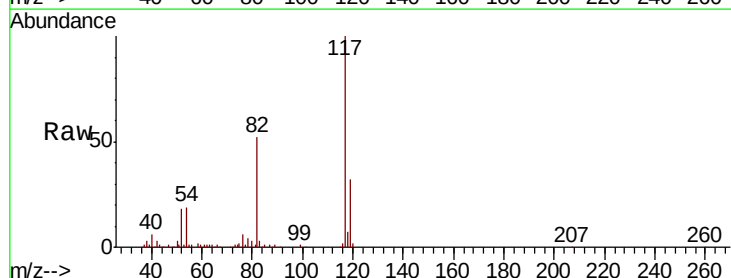
Tgt Ion: 117 Resp: 265325

Ion Ratio Lower Upper

117 100

82 52.1 45.9 68.9

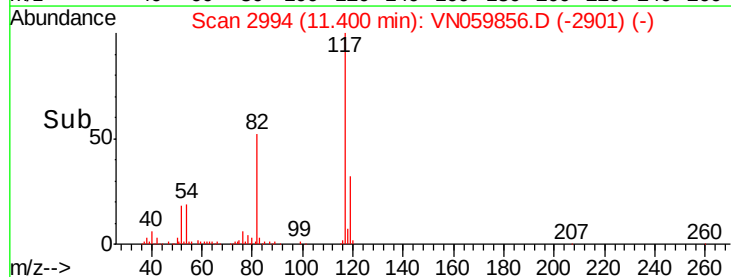
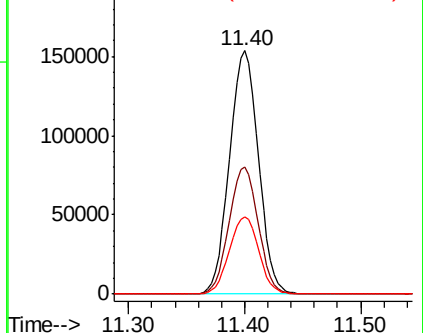
119 31.8 25.5 38.3

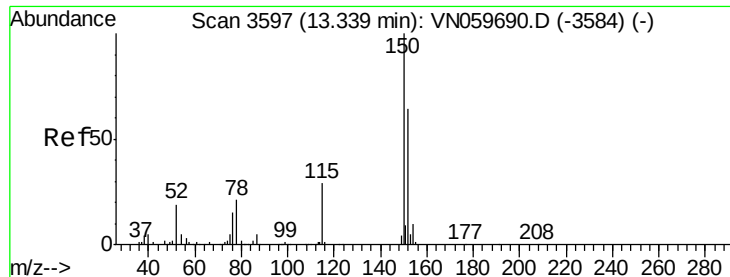


Abundance Ion 116.90 (116.60 to 117.60): VN059856.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059856.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059856.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

ClientSampled :

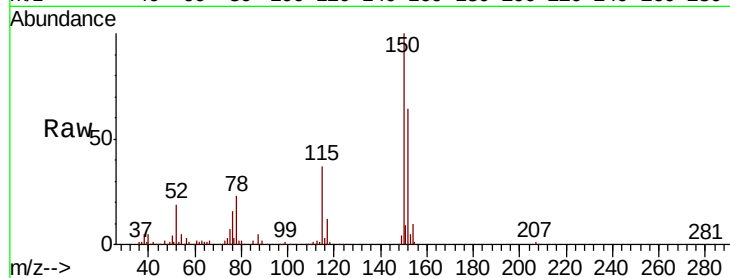
Tot Ion:152 Resp: 105029

Ion Ratio Lower Upper

152 100

115 56.6 30.3 90.9

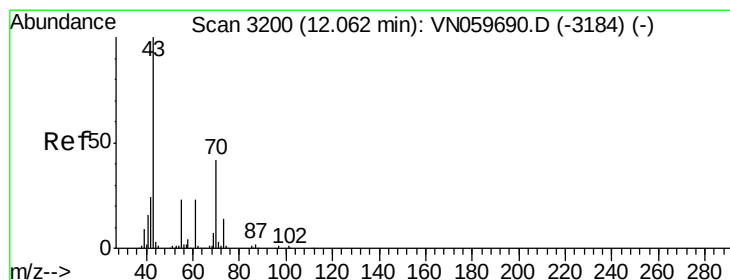
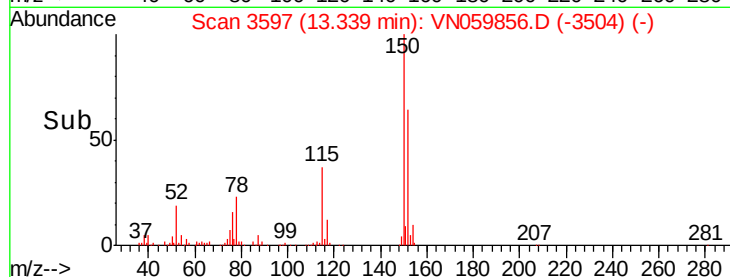
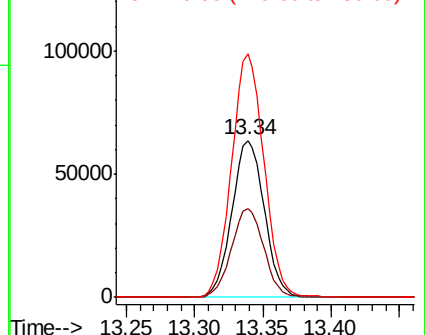
150 155.4 0.0 345.2



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: 0.766 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.03 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Tgt Ion: 43 Resp: 2291

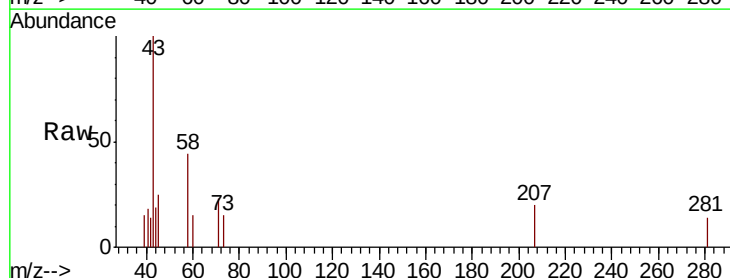
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

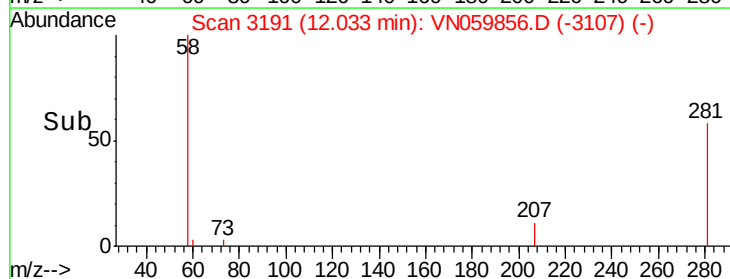
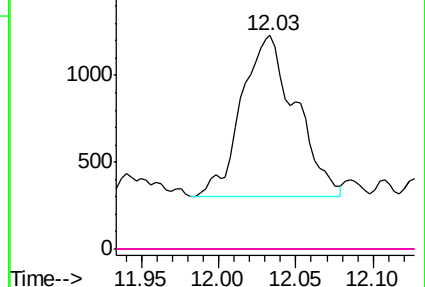


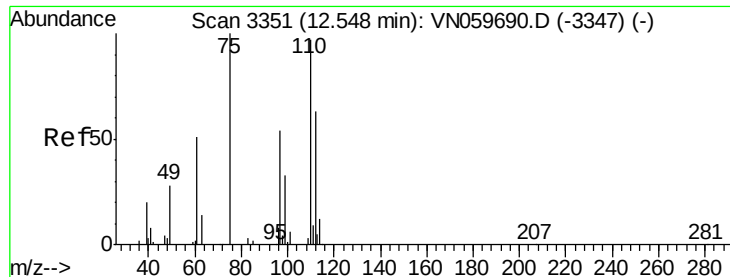
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 32.433 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

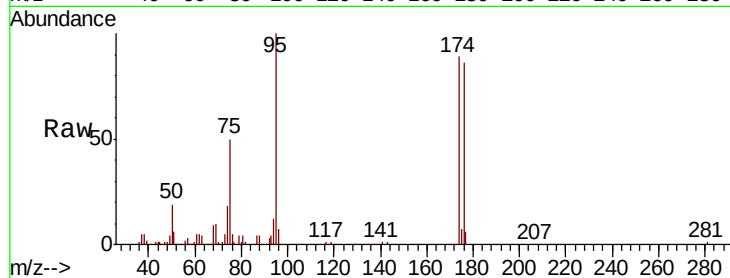
ClientSampleId :

Tot Ion: 75 Resp: 57326

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059856.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN059856.D (-3304) (-)

12.40

30000

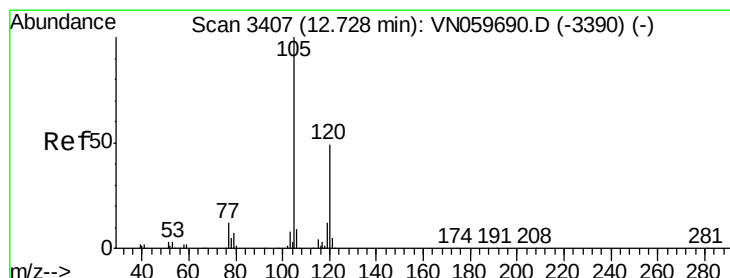
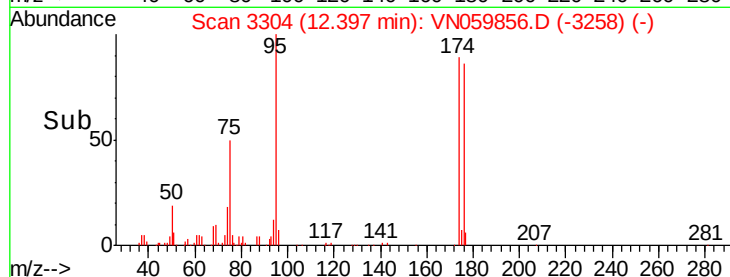
20000

10000

0

Time-->

12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.889 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059856.D

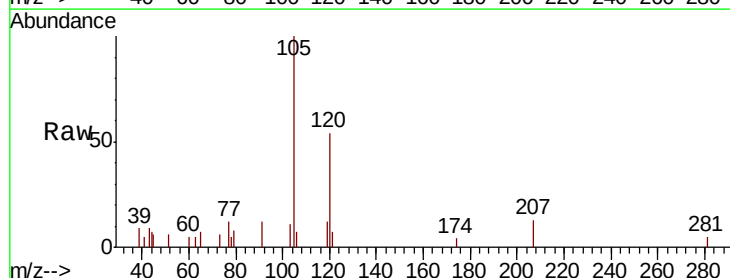
Acq: 24 Jan 2020 19:25

Tgt Ion: 105 Resp: 5761

Ion Ratio Lower Upper

105 100

120 49.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059856.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN059856.D (-3314) (-)

12.73

4000

3000

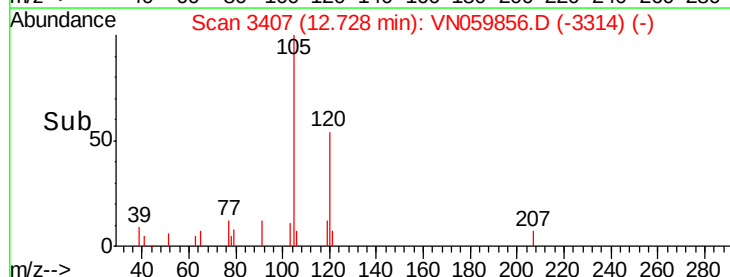
2000

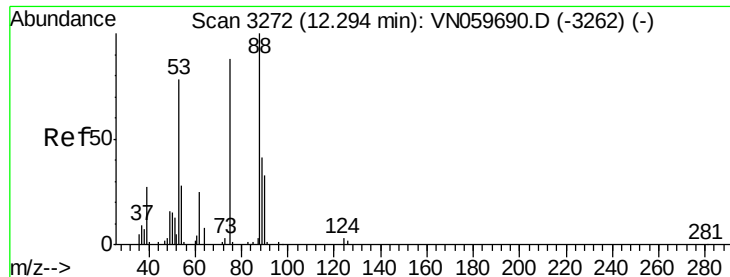
1000

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 69.650 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

Instrument :

MSVOA_N

ClientSampleId :

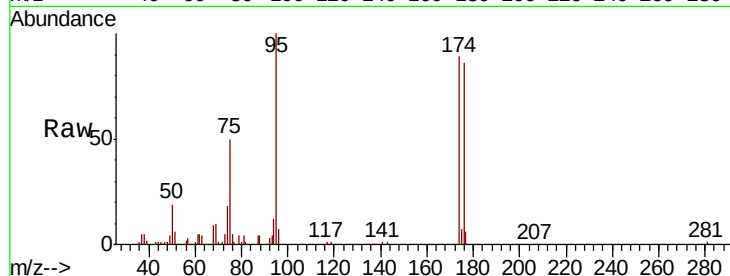
Tot Ion: 75 Resp: 57326

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

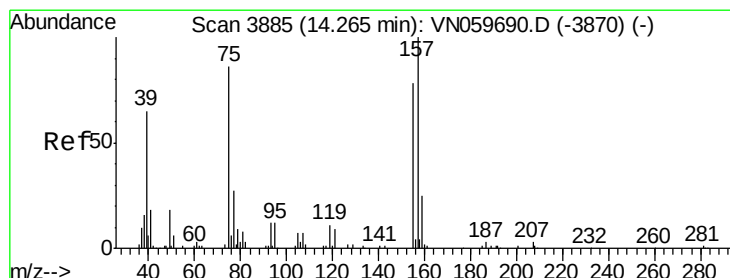
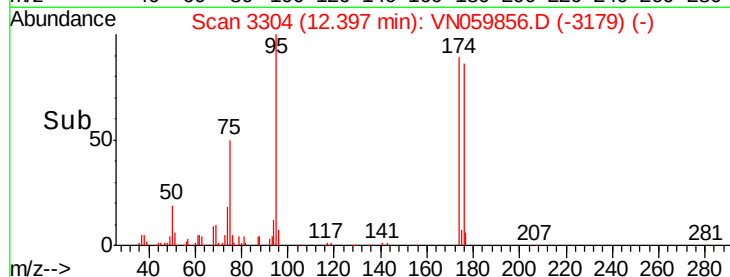
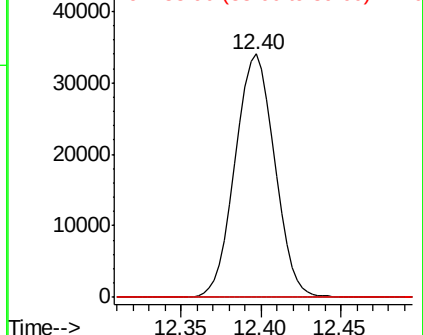
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.41 min Scan# 3930

Delta R.T. 0.15 min

Lab File: VN059856.D

Acq: 24 Jan 2020 19:25

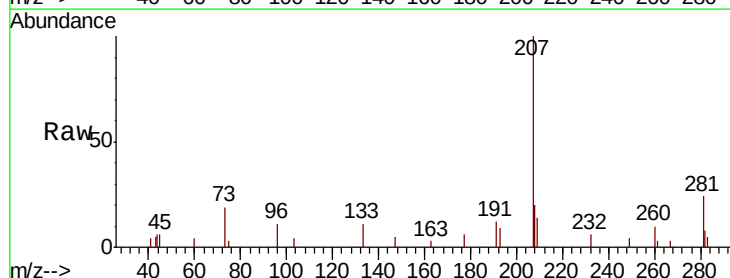
Tgt Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

