

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058820.D
 Acq On : 17 Oct 2019 12:35
 Operator : JC/SP
 Sample : PB124032TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB124032TB

Quant Time: Oct 18 01:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	374564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	596849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	544261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203306	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	269154	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
35) Dibromofluoromethane	7.57	113	192982	52.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.70%	
50) Toluene-d8	10.09	98	758259	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.40	95	244540	43.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.64%	

Target Compounds

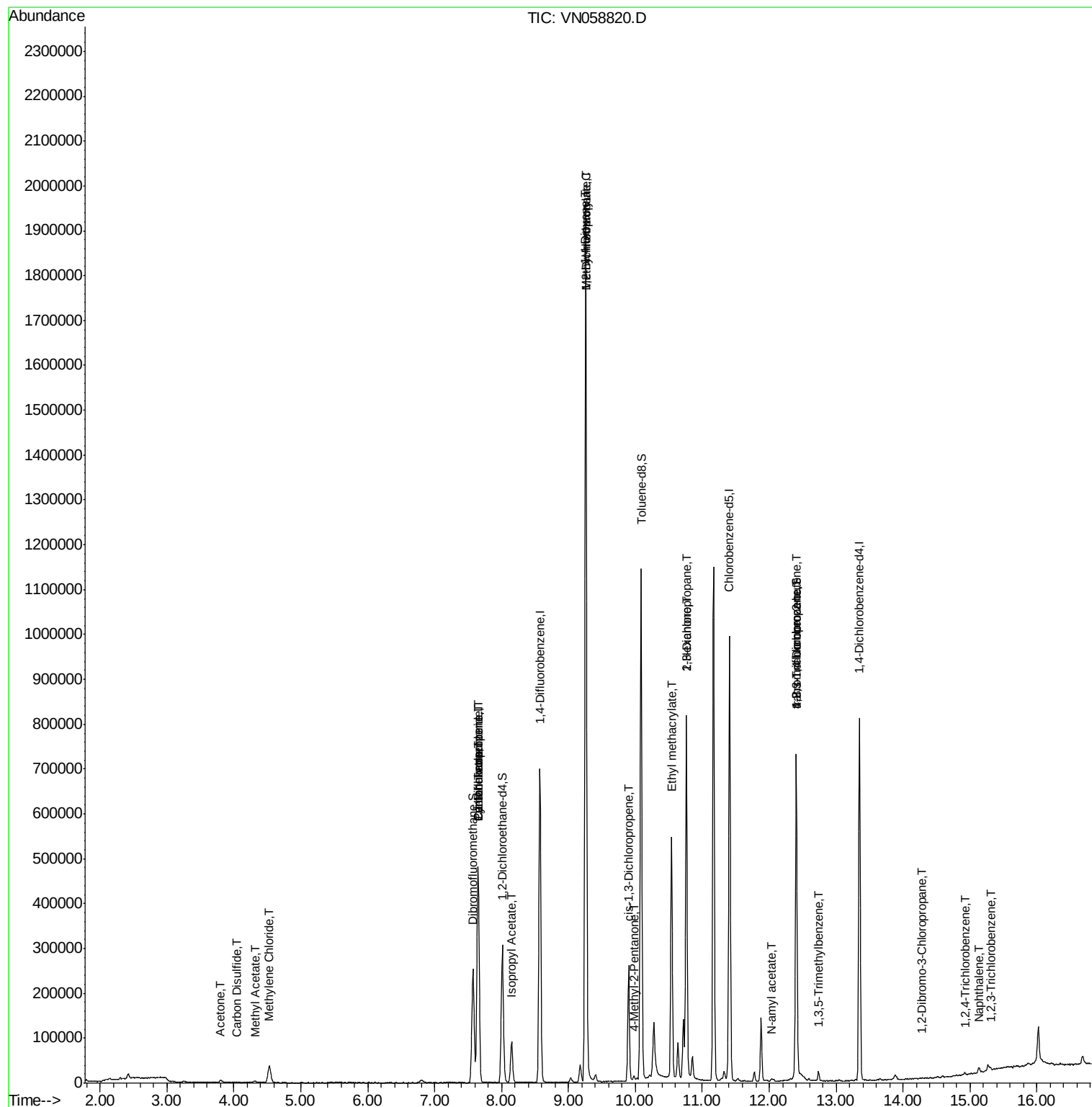
						Qvalue
16) Acetone	3.80	43	9847	4.536	ug/l	99
17) Carbon Disulfide	4.03	76	2685	0.234	ug/l #	75
18) Methyl Acetate	4.31	43	4456	0.809	ug/l #	74
20) Methylene Chloride	4.53	84	27181	5.991	ug/l	96
31) Cyclohexane	7.64	56	8956	1.164	ug/l #	3
36) 1,1-Dichloropropene	7.65	75	31906	5.287	ug/l #	46
38) Carbon Tetrachloride	7.65	117	37149	6.316	ug/l #	16
43) Isopropyl Acetate	8.15	43	106249	10.220	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	2637	0.568	ug/l #	45
48) Methyl methacrylate	9.26	41	191892	40.718	ug/l #	45
49) 1,4-Dioxane	9.24	88	34	0.466	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	8020	1.374	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	42965	5.890	ug/l #	66
56) Ethyl methacrylate	10.54	69	2121	0.335	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7522	1.017	ug/l #	42
59) 2-Hexanone	10.76	43	124362	27.561	ug/l #	53
74) N-amyl acetate	12.03	43	3618	0.547	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	132429	29.692	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	10797	0.859	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	132429	79.536	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	551	0.486	ug/l #	16
93) 1,2,4-Trichlorobenzene	14.93	180	1774	0.452	ug/l	99
95) Naphthalene	15.13	128	8042	0.713	ug/l	96
96) 1,2,3-Trichlorobenzene	15.30	180	2023	0.528	ug/l	83

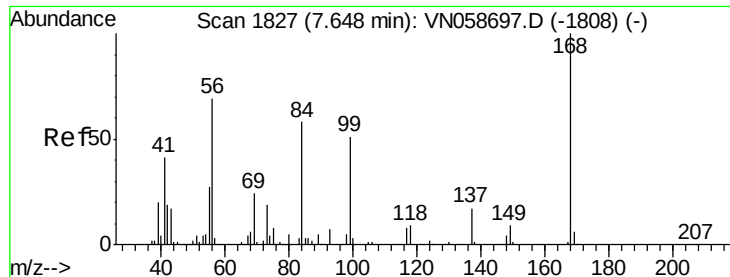
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

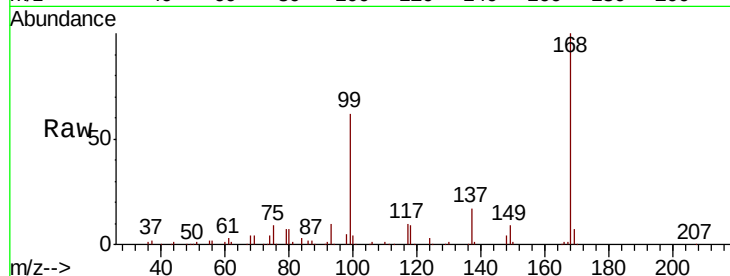
PB124032TB

Tot Ion:168 Resp: 374564

Ion Ratio Lower Upper

168 100

99 61.8 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

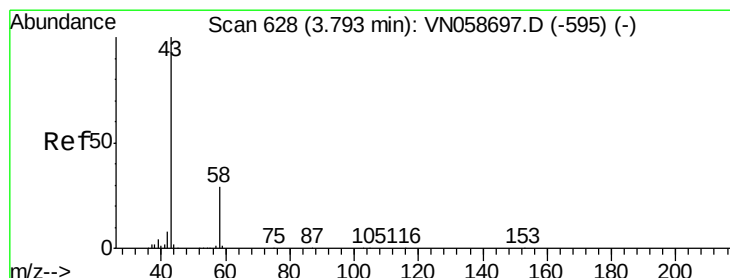
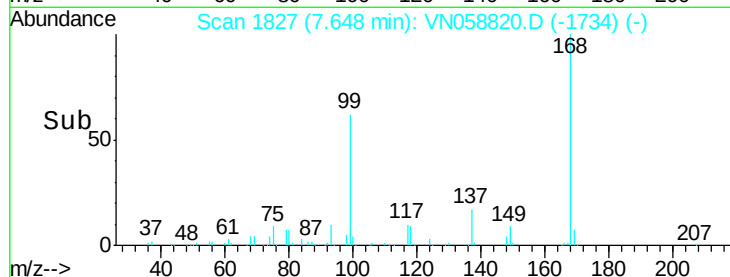
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 4.536 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058820.D

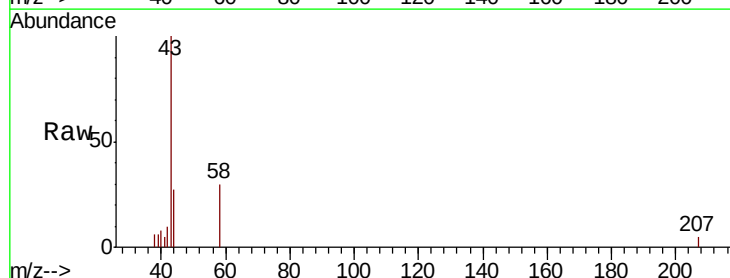
Acq: 17 Oct 2019 12:35

Tgt Ion: 43 Resp: 9847

Ion Ratio Lower Upper

43 100

58 29.6 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

4000

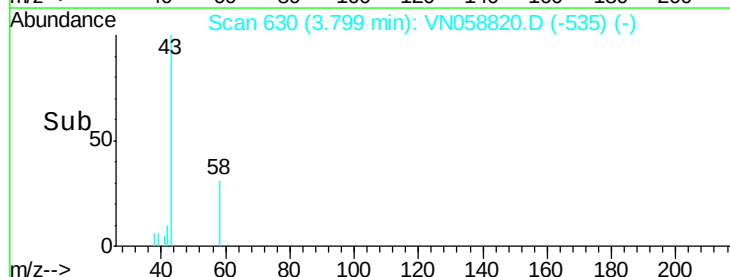
3000

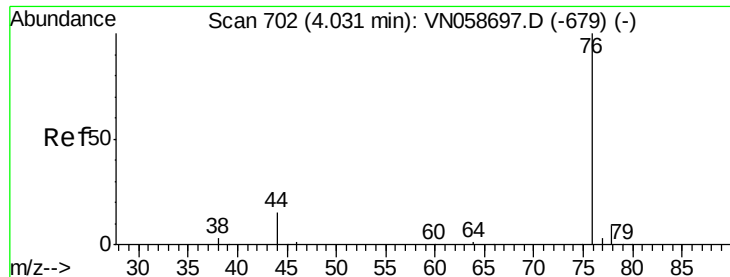
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: 0.234 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

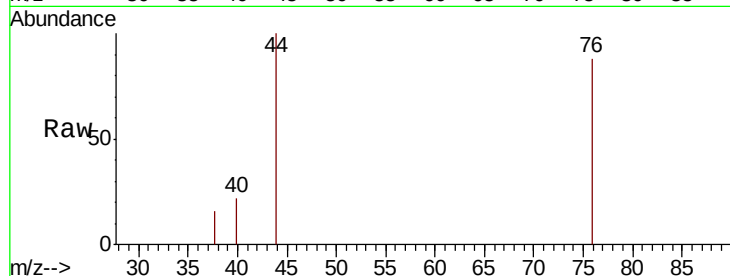
PB124032TB

Tot Ion: 76 Resp: 2685

Ion Ratio Lower Upper

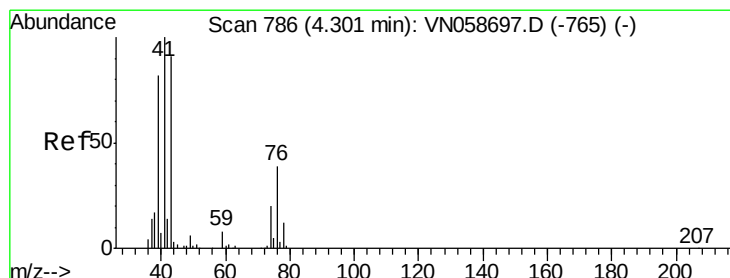
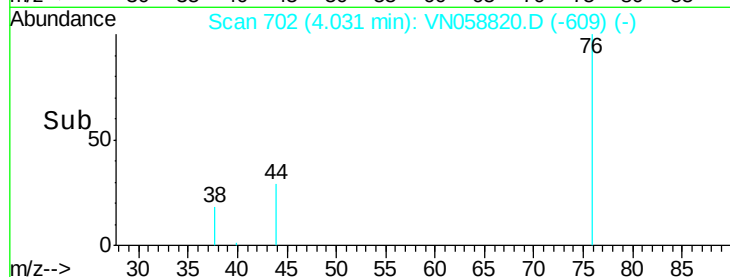
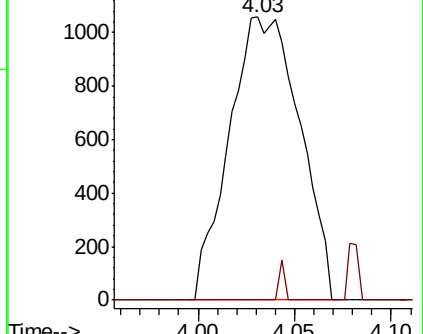
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.809 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058820.D

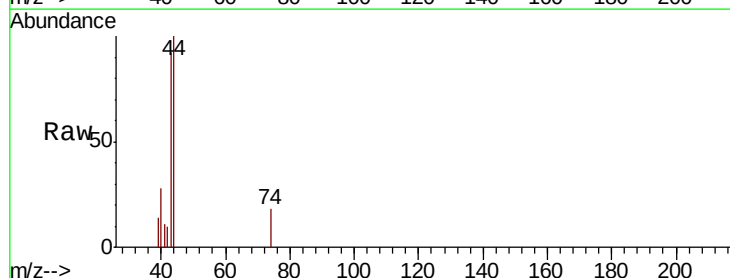
Acq: 17 Oct 2019 12:35

Tgt Ion: 43 Resp: 4456

Ion Ratio Lower Upper

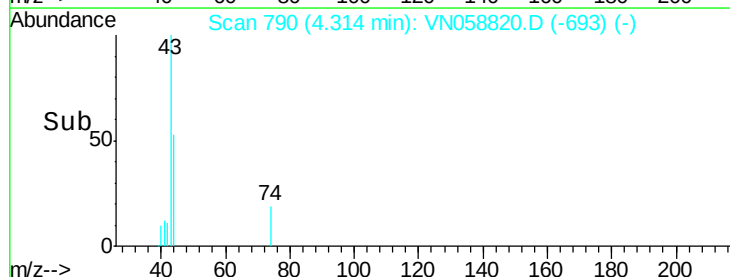
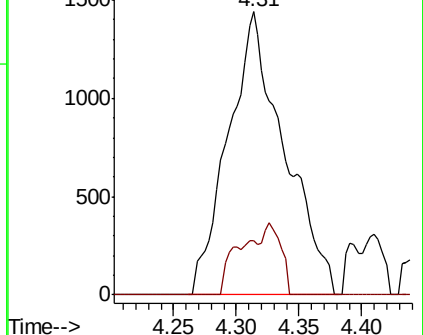
43 100

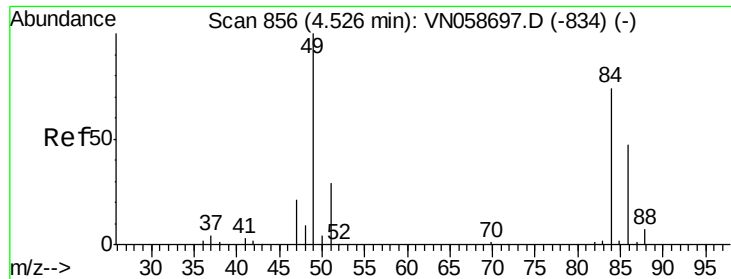
74 9.4 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

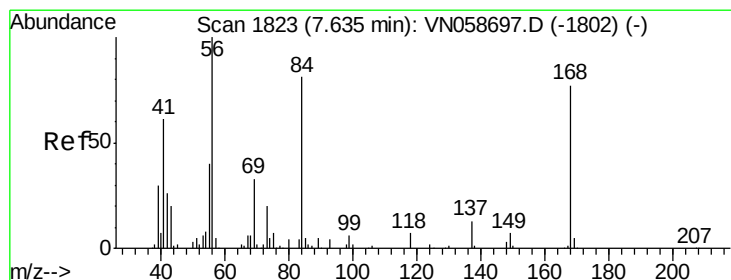
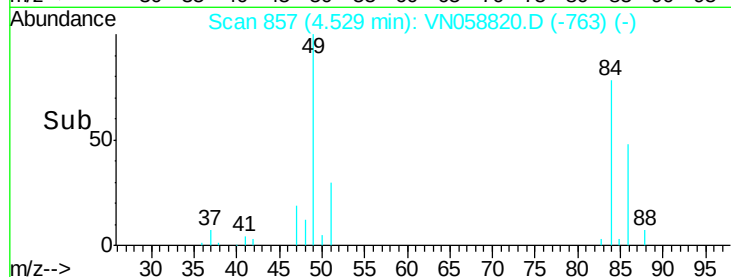
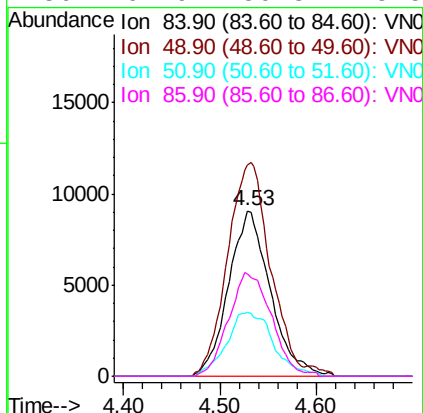
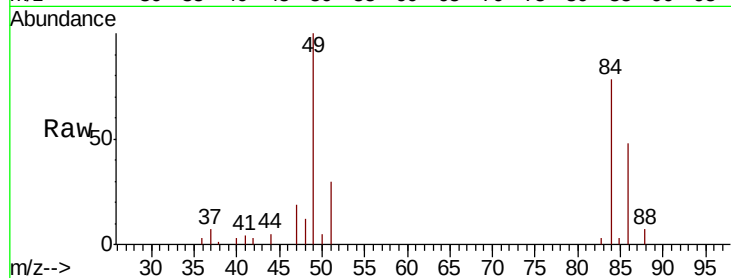




#20
Methvlene Chloride
Concen: 5.991 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058820.D
Acq: 17 Oct 2019 12:35

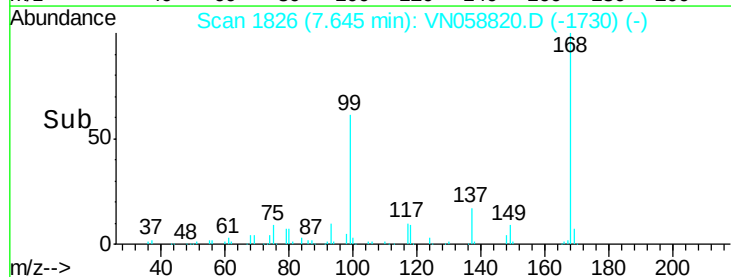
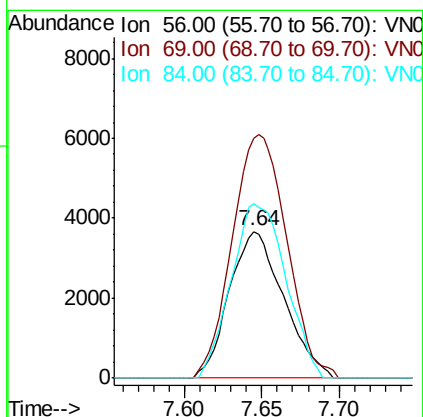
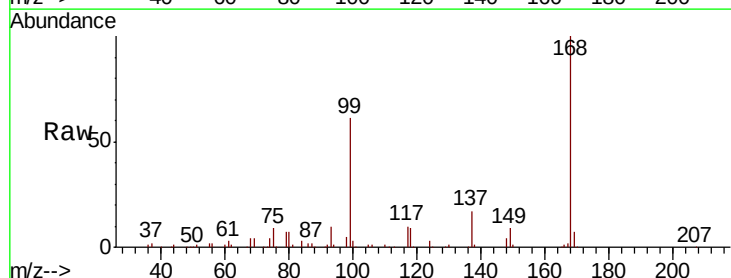
Instrument :
MSVOA_N
ClientSampled :
PB124032TB

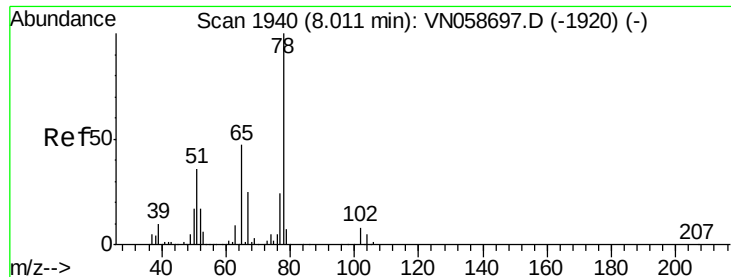
Tot Ion: 84 Resp: 27181
Ion Ratio Lower Upper
84 100
49 127.7 107.6 161.4
51 38.5 31.4 47.0
86 61.9 50.3 75.5



#31
Cyclohexane
Concen: 1.164 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058820.D
Acq: 17 Oct 2019 12:35

Tgt Ion: 56 Resp: 8956
Ion Ratio Lower Upper
56 100
69 163.0 26.2 39.4#
84 119.0 64.9 97.3#

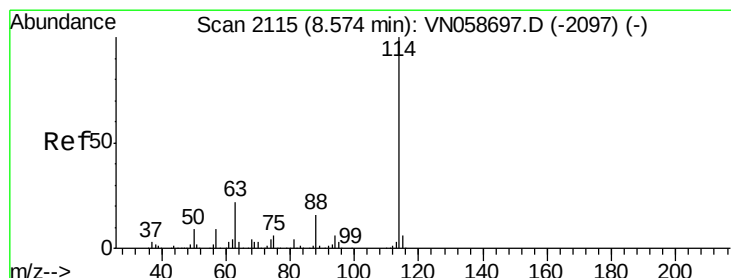
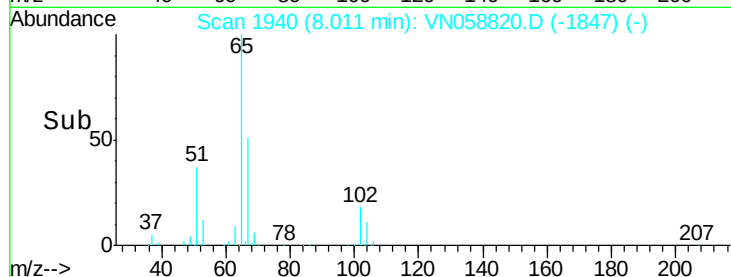
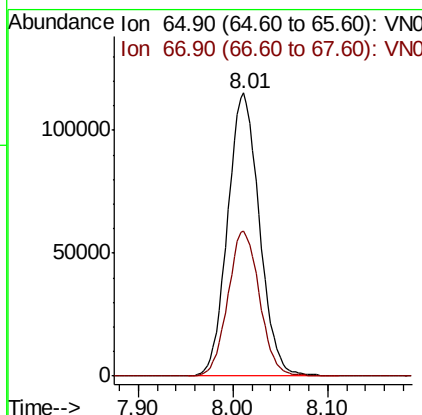
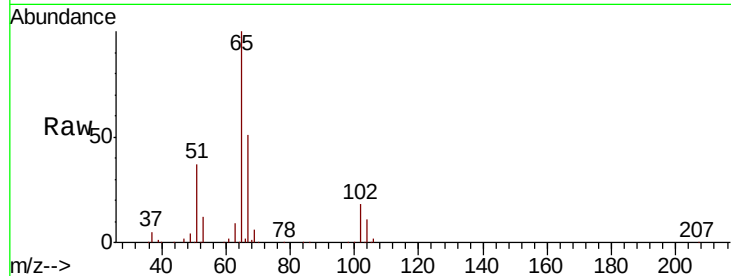




#33
 1,2-Dichloroethane-d4
 Concen: 51.328 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

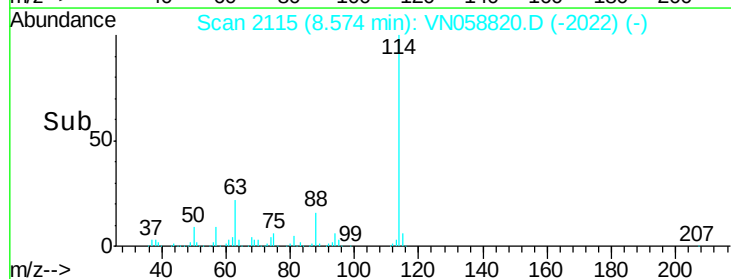
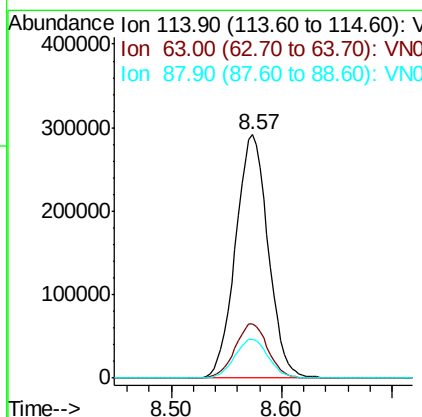
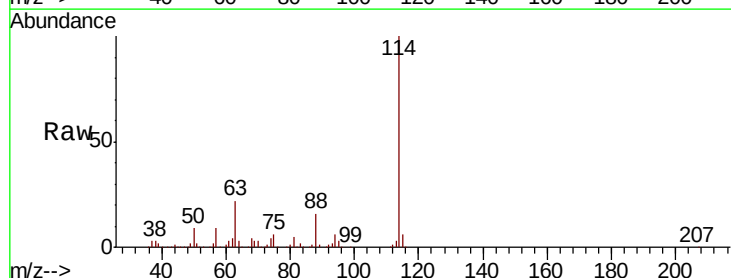
Instrument :
 MSVOA_N
 ClientSampled :
 PB124032TB

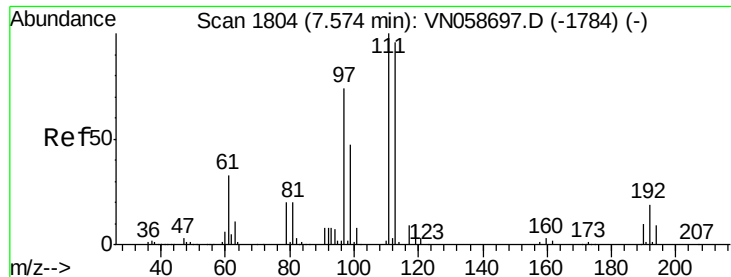
Tot Ion: 65 Resp: 269154
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

Tgt Ion: 114 Resp: 596849
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.2 0.0 32.0

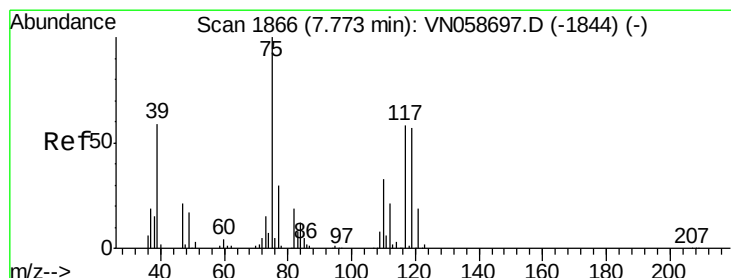
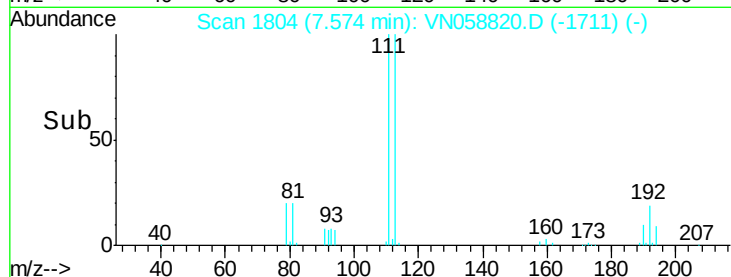
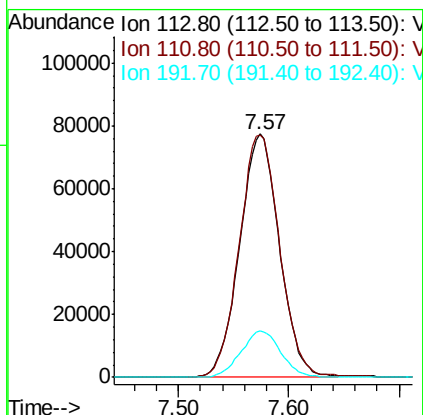
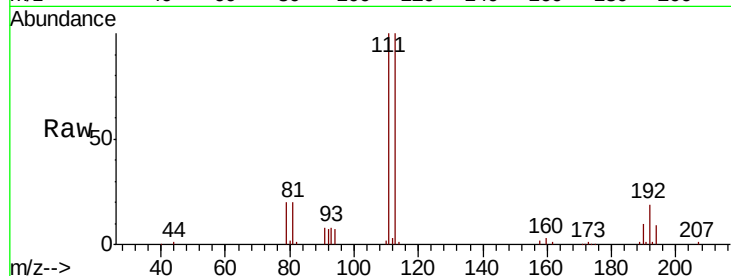




#35
 Dibromofluoromethane
 Concen: 52.347 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

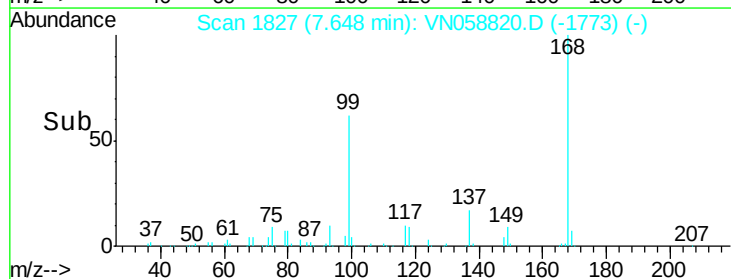
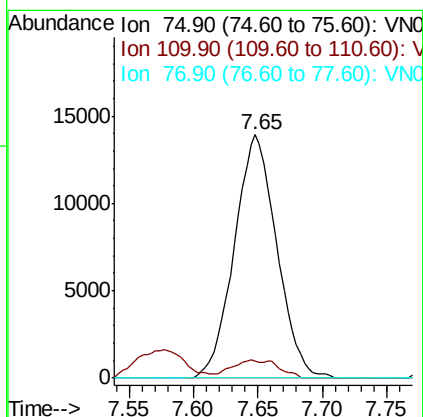
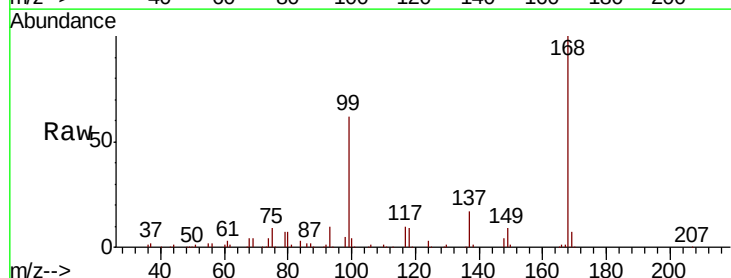
Instrument :
 MSVOA_N
 ClientSampleID :
 PB124032TB

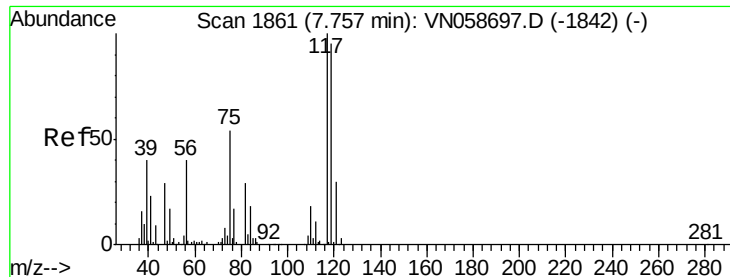
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	82.3	123.5
192	19.0	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.287 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.5	16.6	49.8#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.316 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

PB124032TB

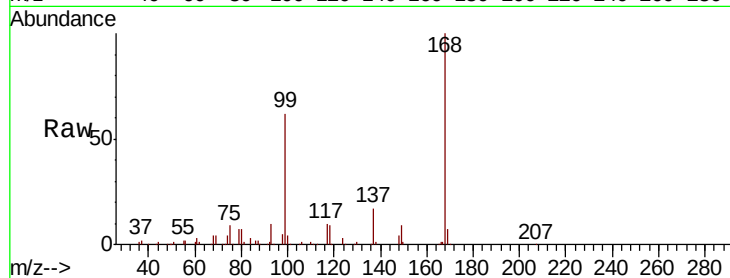
Tot Ion:117 Resp: 37149

Ion Ratio Lower Upper

117 100

119 4.9 75.7 113.5#

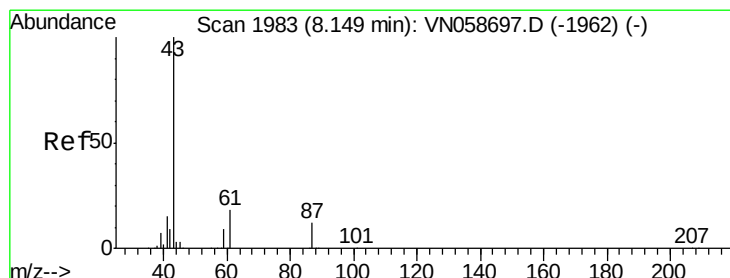
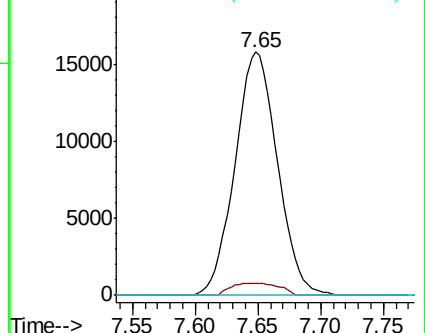
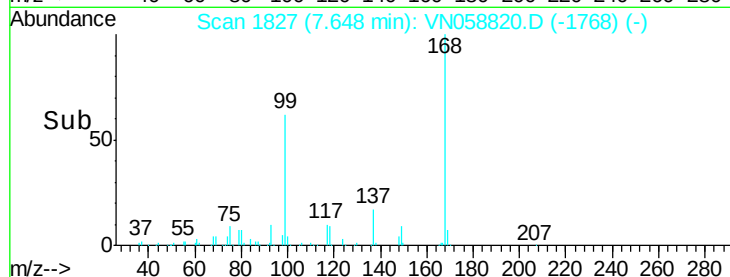
121 0.0 23.9 35.9#



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: 10.220 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

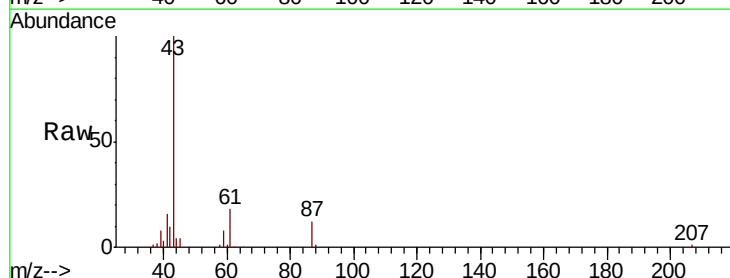
Tgt Ion: 43 Resp: 106249

Ion Ratio Lower Upper

43 100

61 18.1 20.3 30.5#

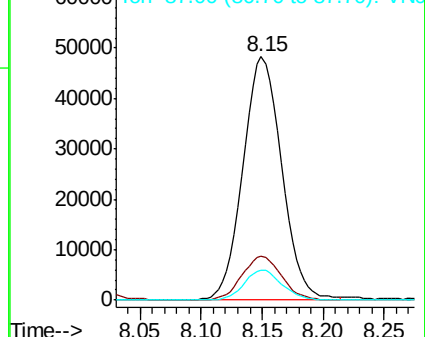
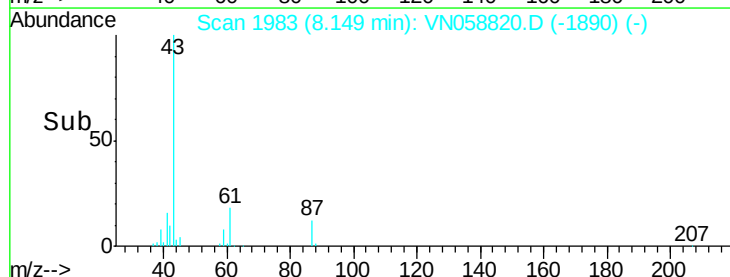
87 11.8 9.8 14.6

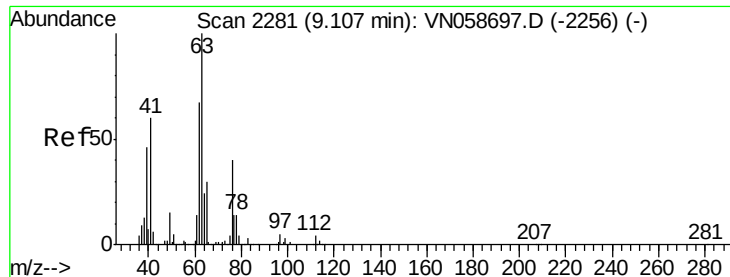


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

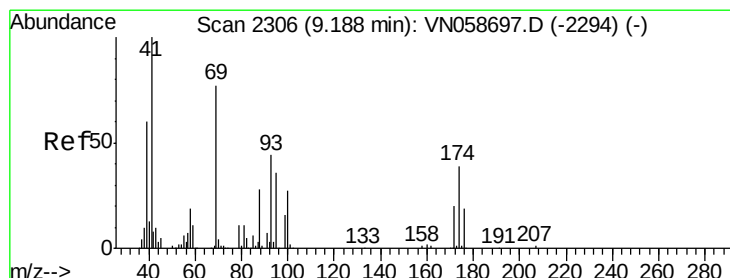
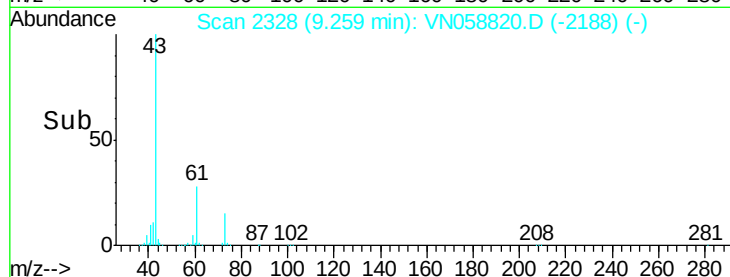
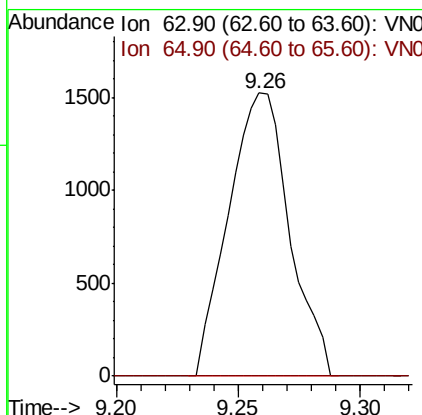
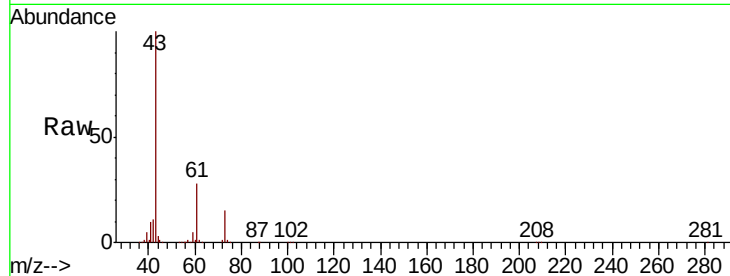




#45
 1,2-Dichloropropane
 Concen: 0.568 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

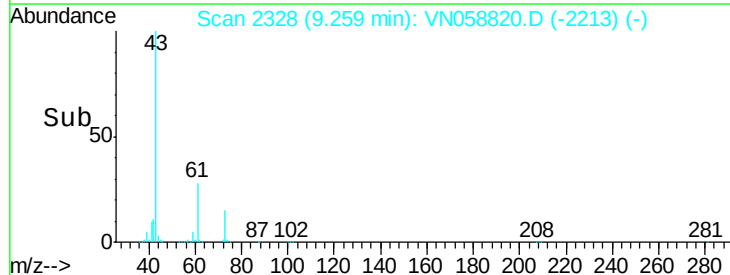
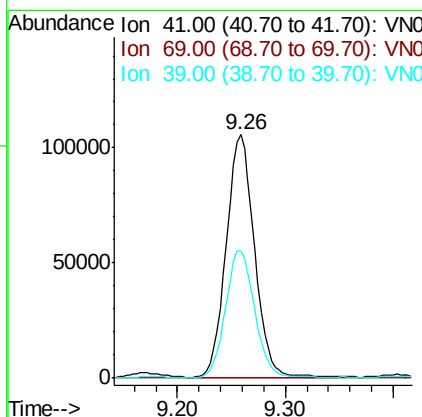
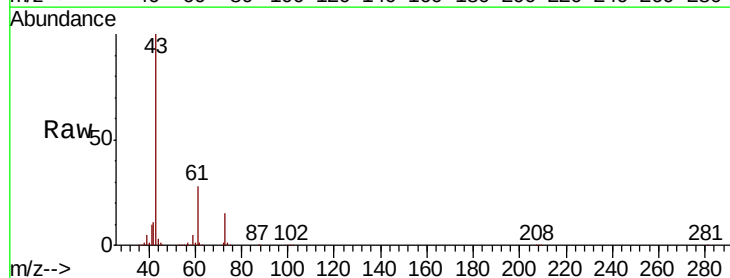
Instrument :
 MSVOA_N
 ClientSampleId :
 PB124032TB

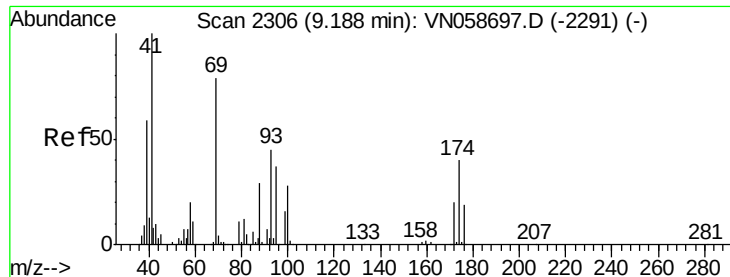
Tot Ion: 63 Resp: 2637
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 40.718 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.07 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

Tgt Ion: 41 Resp: 191892
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.4 95.2#
 39 53.8 48.9 73.3

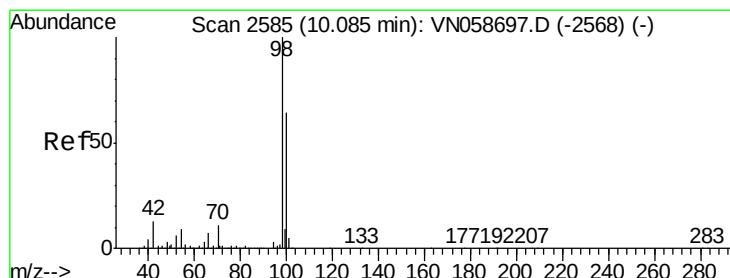
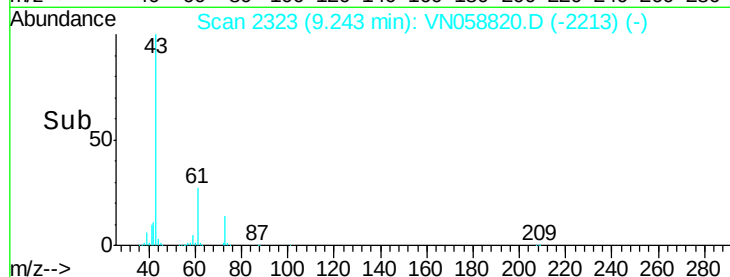
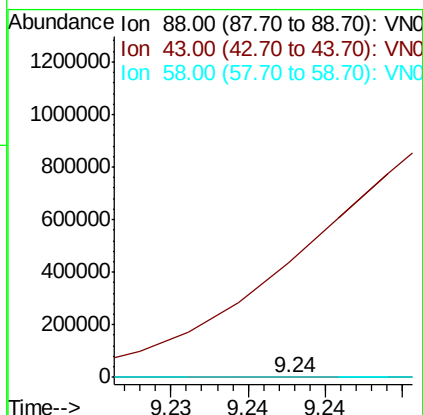
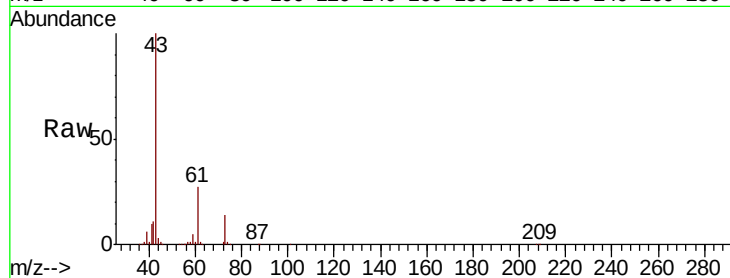




#49
 1,4-Dioxane
 Concen: 0.466 ug/l
 RT: 9.24 min Scan# 2323
 Delta R.T. 0.05 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

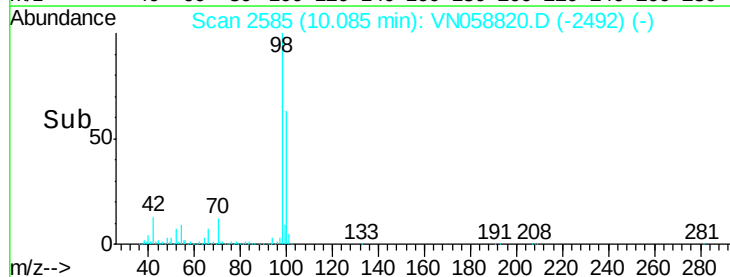
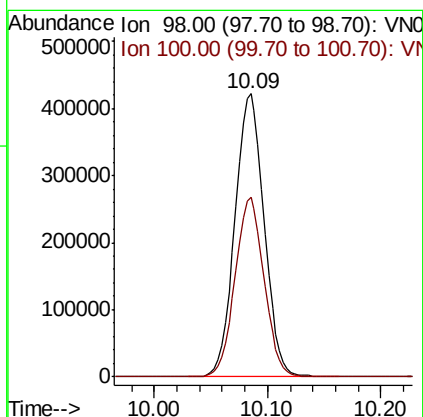
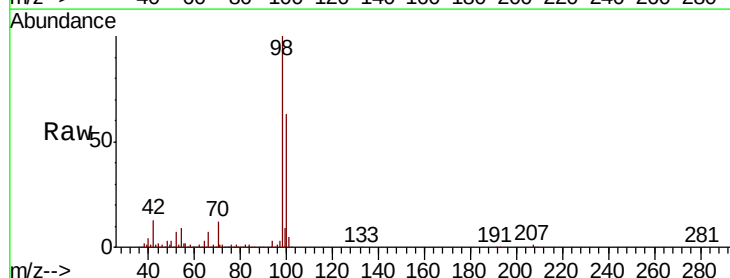
Instrument :
 MSVOA_N
 ClientSampleId :
 PB124032TB

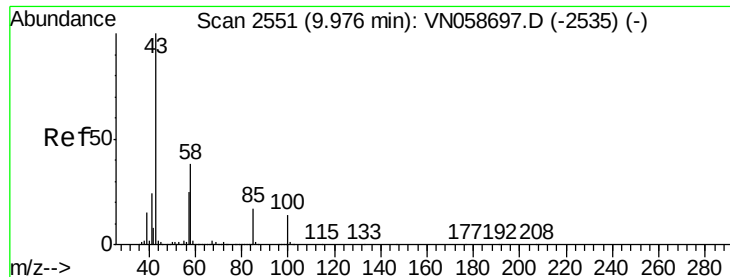
Tot Ion: 88 Resp: 34
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 43.0#
 58 0.0 57.2 85.8#



#50
 Toluene-d8
 Concen: 51.434 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

Tgt Ion: 98 Resp: 758259
 Ion Ratio Lower Upper
 98 100
 100 63.1 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 1.374 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

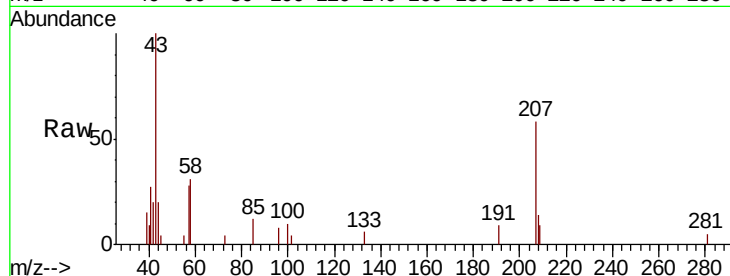
PB124032TB

Tot Ion: 43 Resp: 8020

Ion Ratio Lower Upper

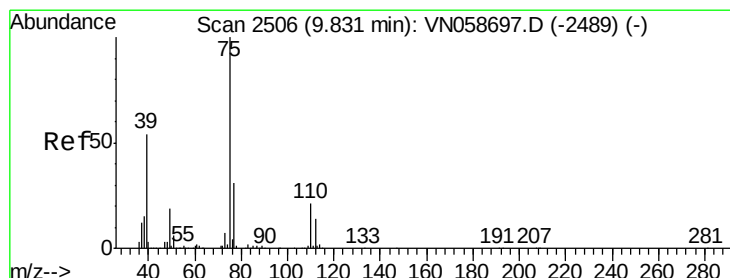
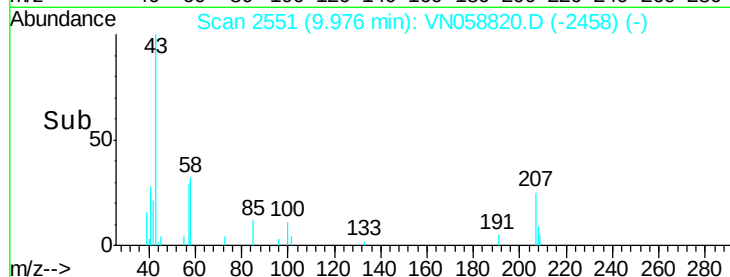
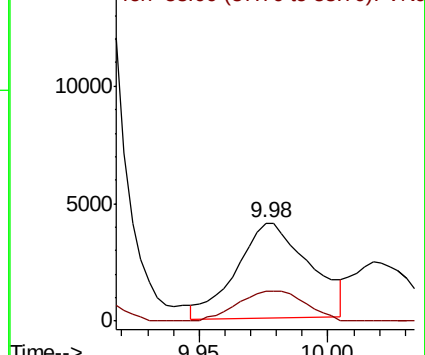
43 100

58 29.2 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.890 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

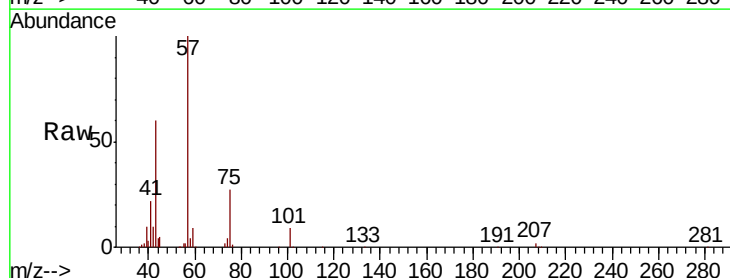
Tgt Ion: 75 Resp: 42965

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

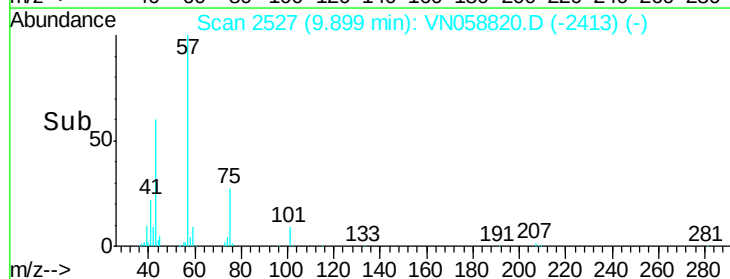
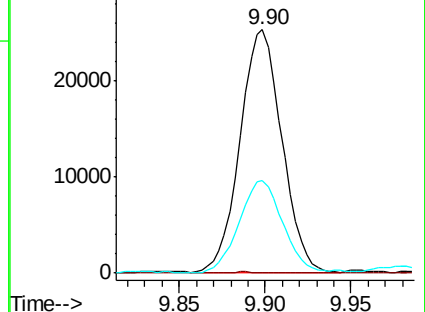
39 37.9 43.1 64.7#

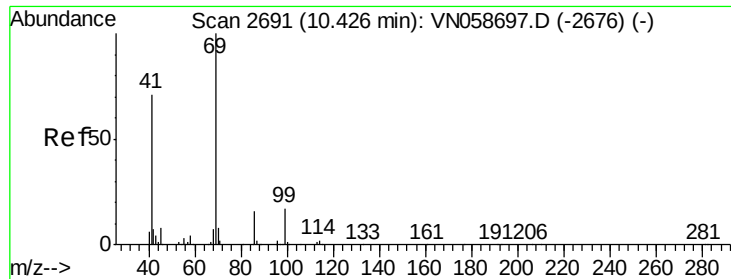


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.335 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB124032TB

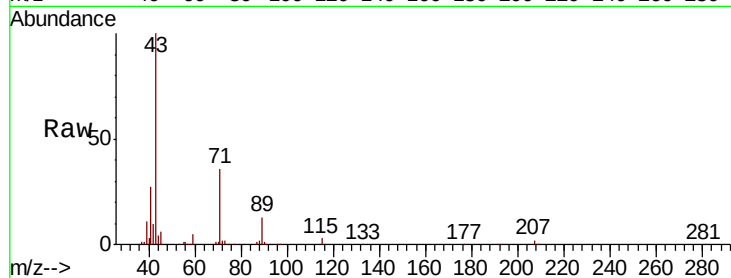
Tot Ion: 69 Resp: 2121

Ion Ratio Lower Upper

69 100

41 5003.8 56.8 85.2#

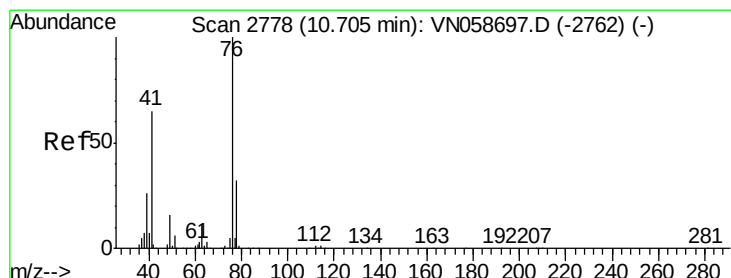
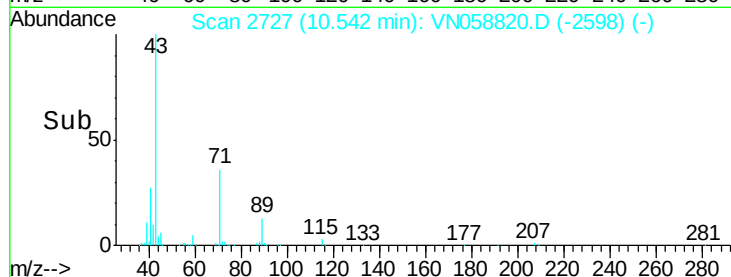
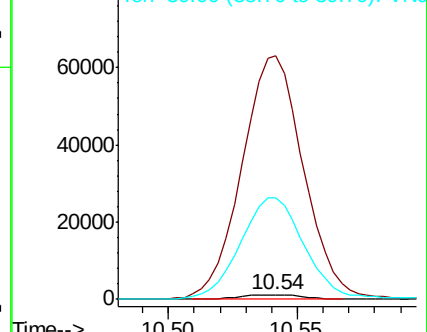
39 2159.7 32.5 48.7#



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: 1.017 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058820.D

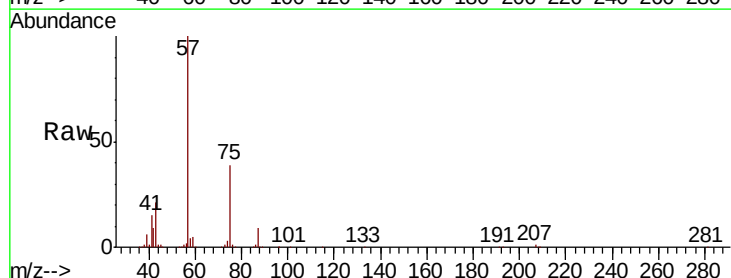
Acq: 17 Oct 2019 12:35

Tgt Ion: 76 Resp: 7522

Ion Ratio Lower Upper

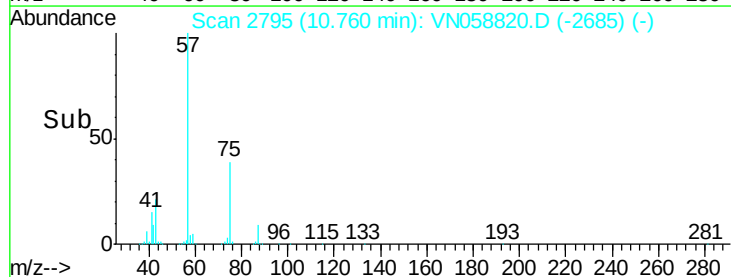
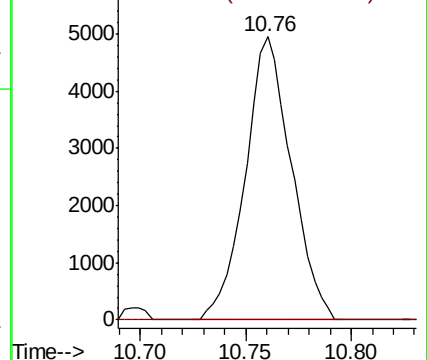
76 100

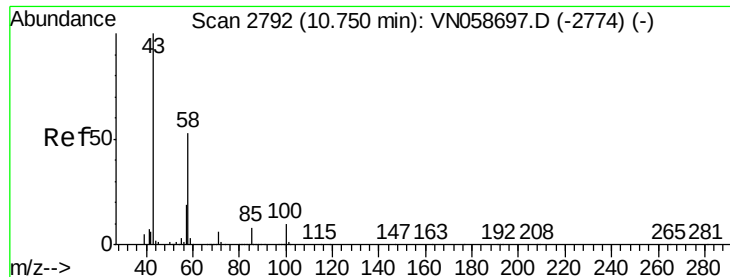
78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

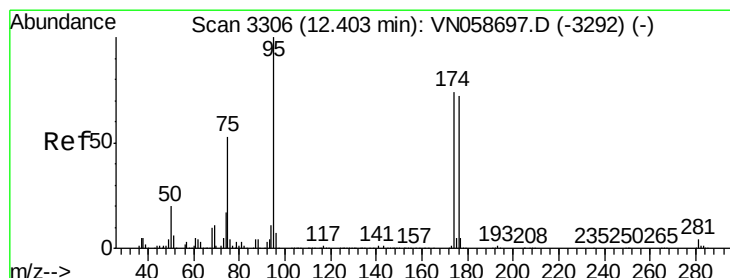
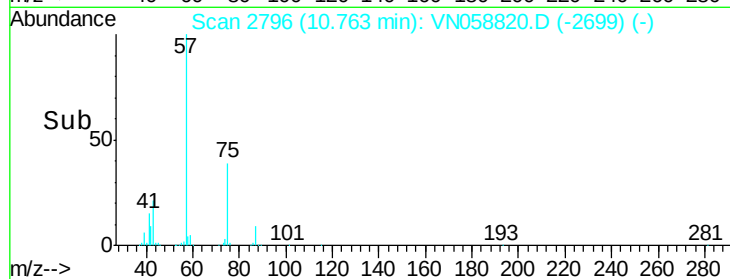
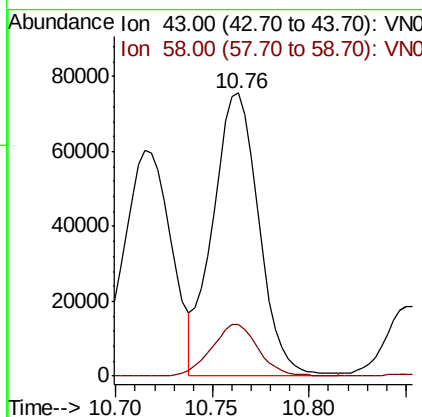
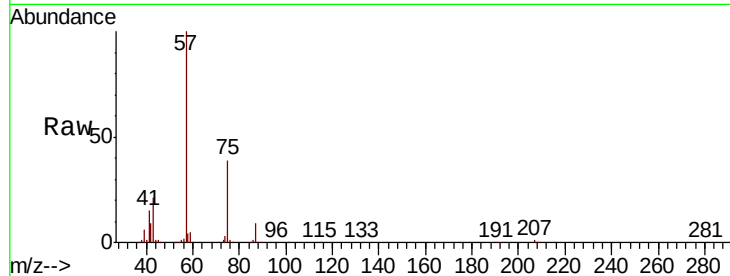




#59
 2-Hexanone
 Concen: 27.561 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

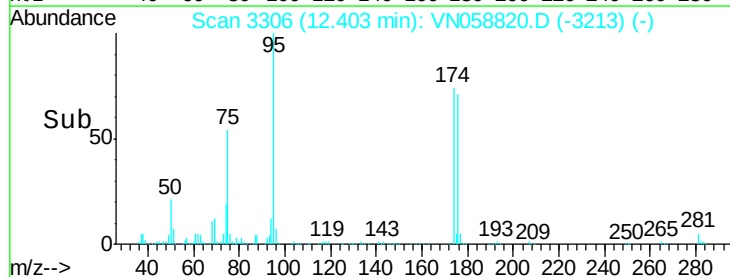
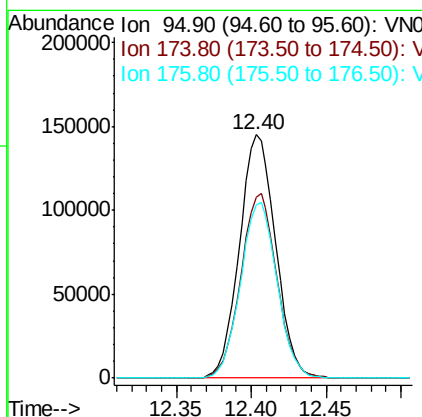
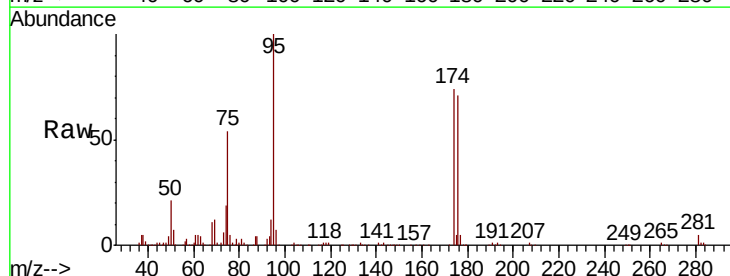
Instrument :
 MSVOA_N
 ClientSampled :
 PB124032TB

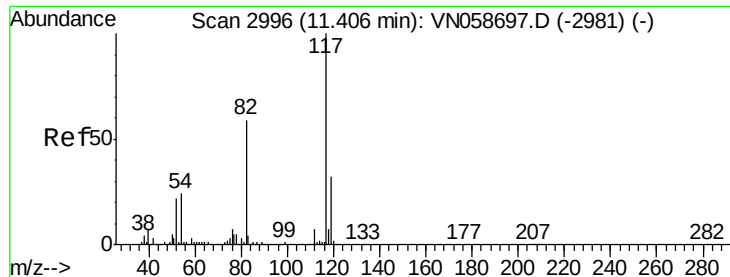
Tot Ion: 43 Resp: 124362
 Ion Ratio Lower Upper
 43 100
 58 18.8 26.1 78.3#



#62
 4-Bromofluorobenzene
 Concen: 43.822 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058820.D
 Acq: 17 Oct 2019 12:35

Tgt Ion: 95 Resp: 244540
 Ion Ratio Lower Upper
 95 100
 174 75.9 0.0 150.4
 176 73.1 0.0 146.8

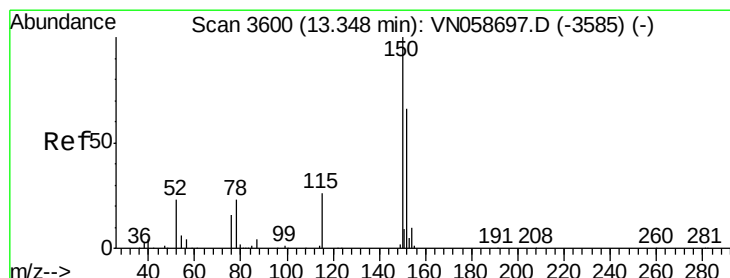
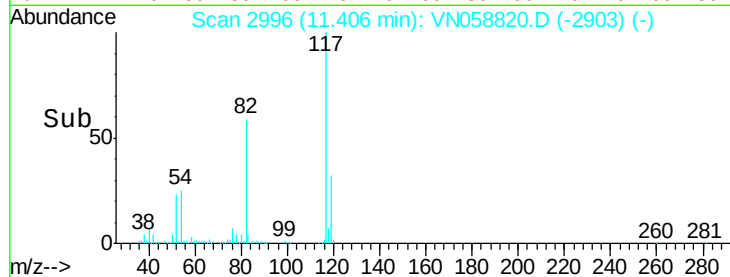
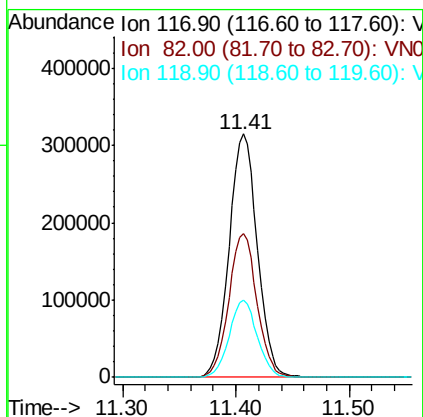
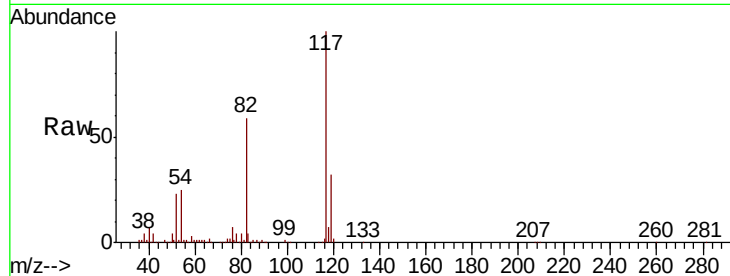




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058820.D
Acq: 17 Oct 2019 12:35

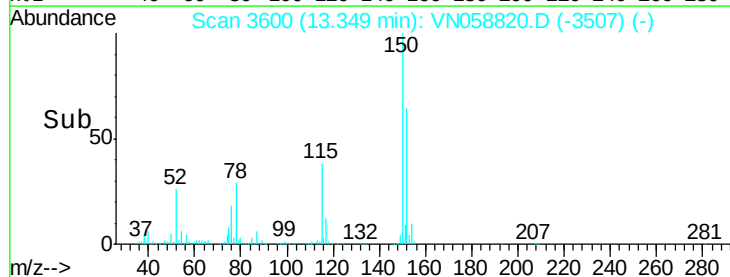
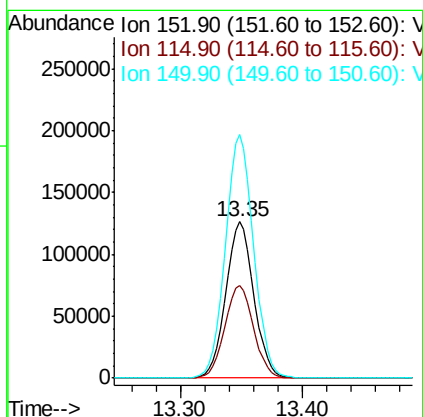
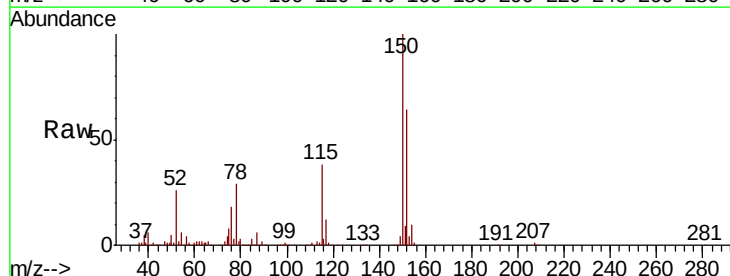
Instrument :
MSVOA_N
ClientSampleId :
PB124032TB

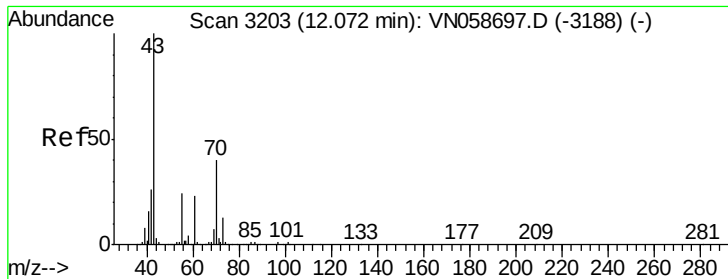
Tot Ion:117 Resp: 544261
Ion Ratio Lower Upper
117 100
82 59.3 47.0 70.4
119 31.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058820.D
Acq: 17 Oct 2019 12:35

Tgt Ion:152 Resp: 203306
Ion Ratio Lower Upper
152 100
115 60.8 30.4 91.2
150 156.9 0.0 345.4





#74

N-amyl acetate

Concen: 0.547 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB124032TB

Tot Ion: 43 Resp: 3618

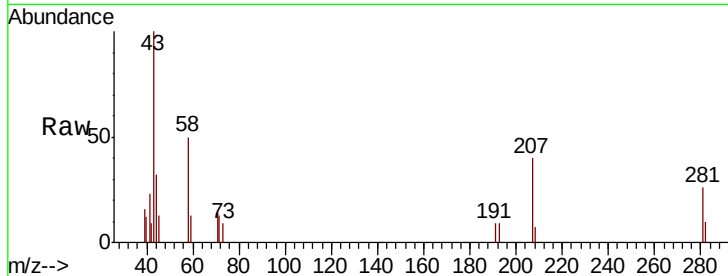
Ion Ratio Lower Upper

43 100

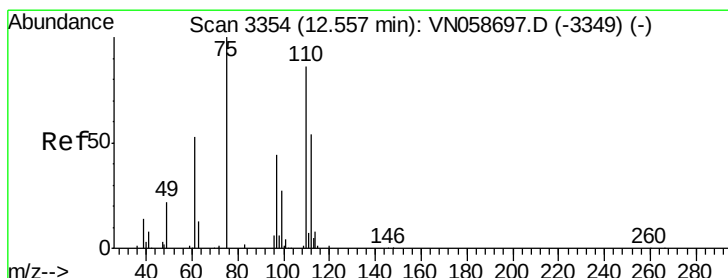
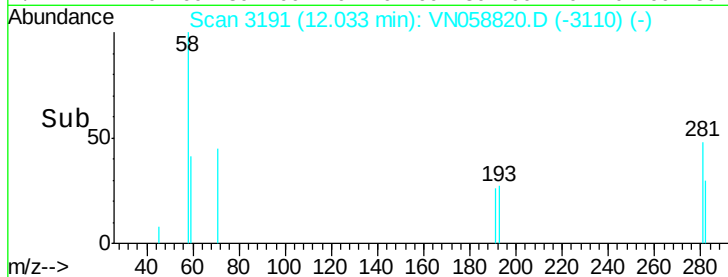
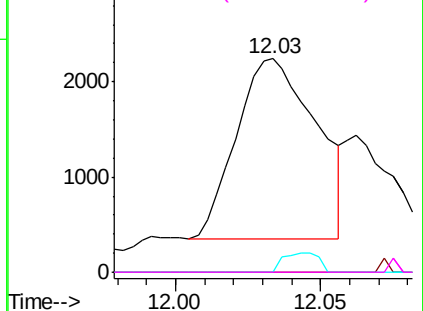
70 0.0 32.2 48.4#

55 4.9 19.6 29.4#

61 0.0 18.6 28.0#



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: 29.692 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058820.D

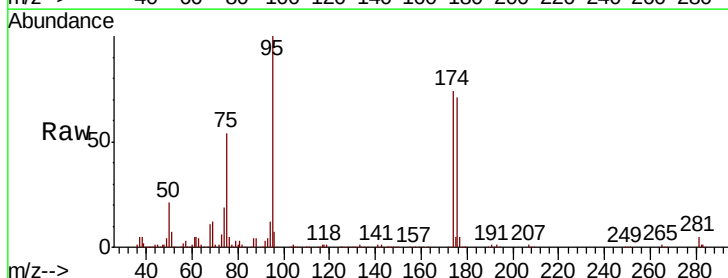
Acq: 17 Oct 2019 12:35

Tgt Ion: 75 Resp: 132429

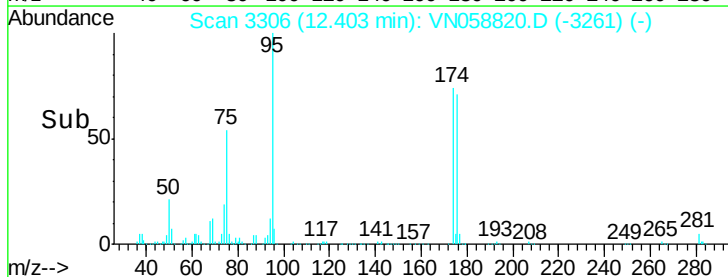
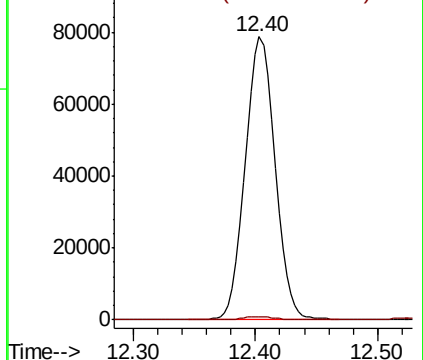
Ion Ratio Lower Upper

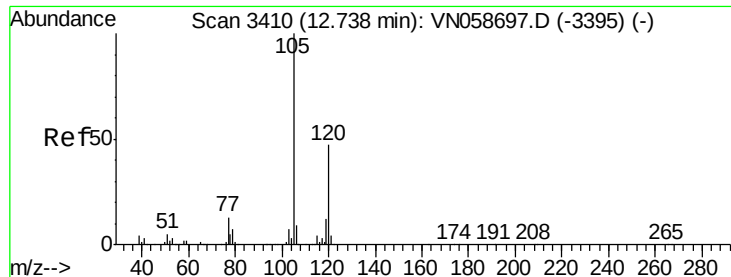
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.859 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

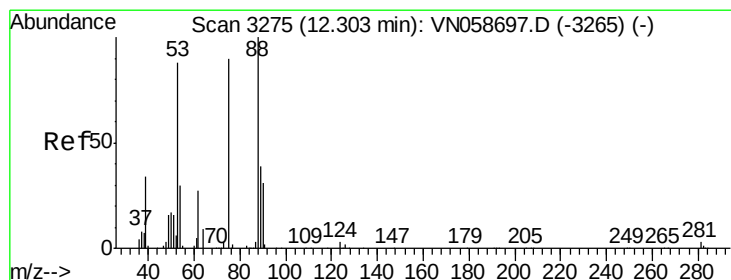
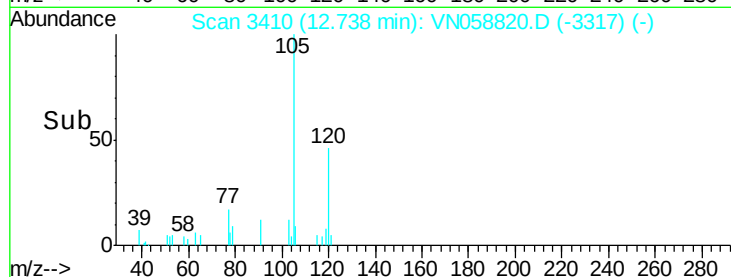
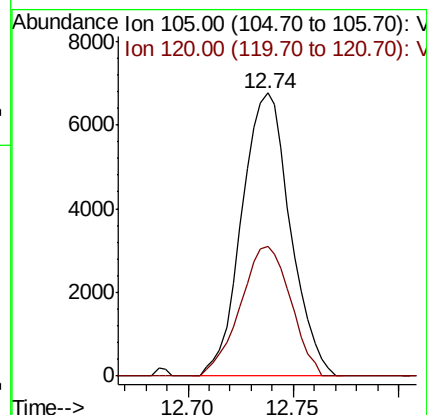
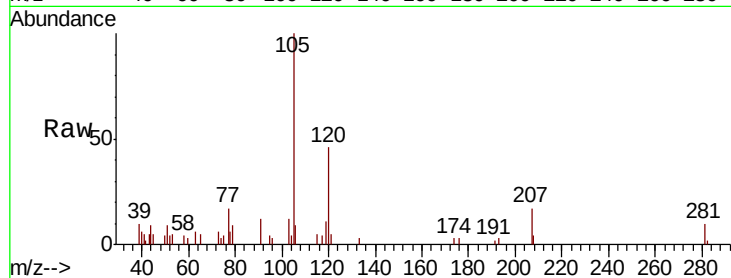
PB124032TB

Tot Ion:105 Resp: 10797

Ion Ratio Lower Upper

105 100

120 47.4 23.4 70.2



#81

trans-1,4-Dichloro-2-butene

Concen: 79.536 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

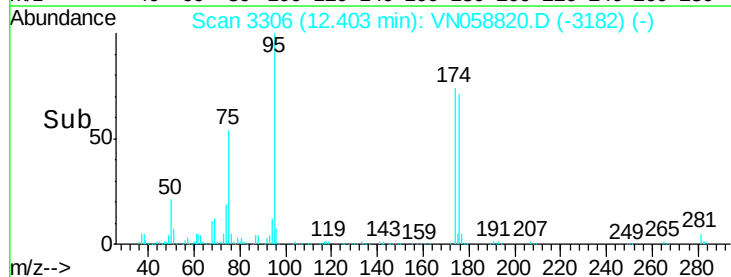
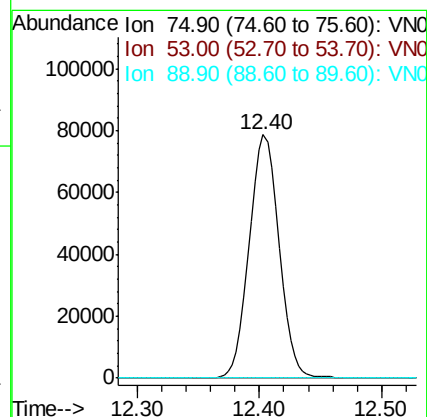
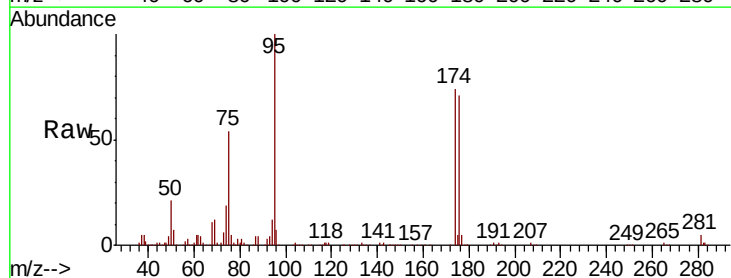
Tgt Ion: 75 Resp: 132429

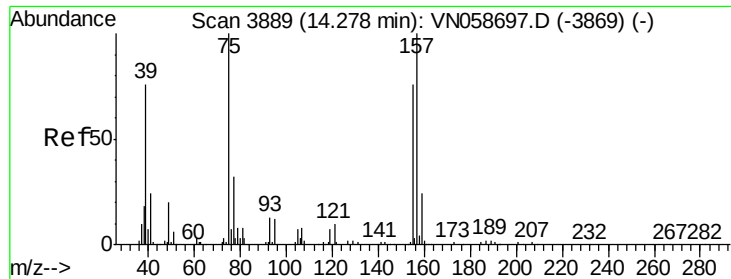
Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.486 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampled :

PB124032TB

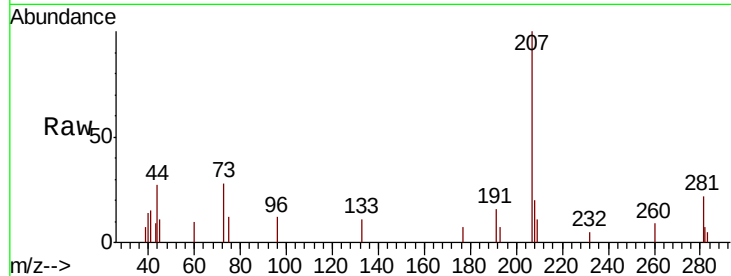
Tot Ion: 75 Resp: 551

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

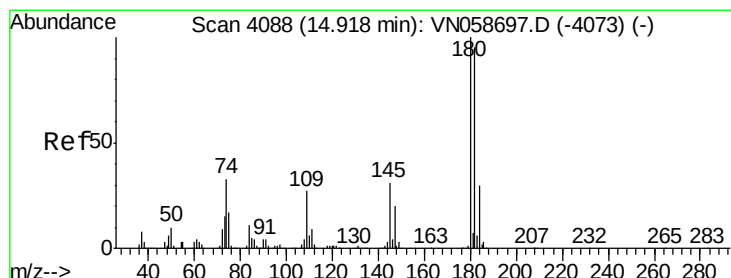
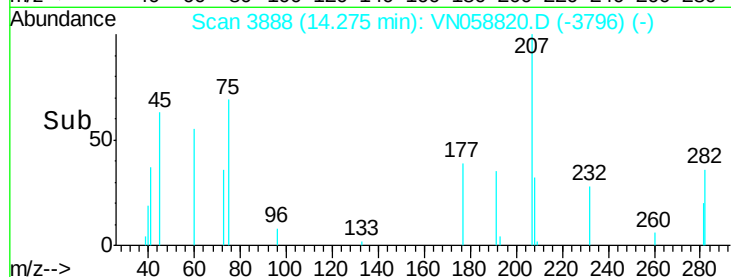
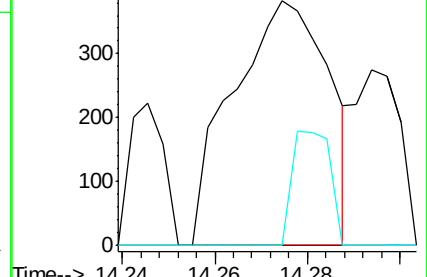
157 18.1 49.4 148.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.452 ug/l

RT: 14.93 min Scan# 4091

Delta R.T. 0.01 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

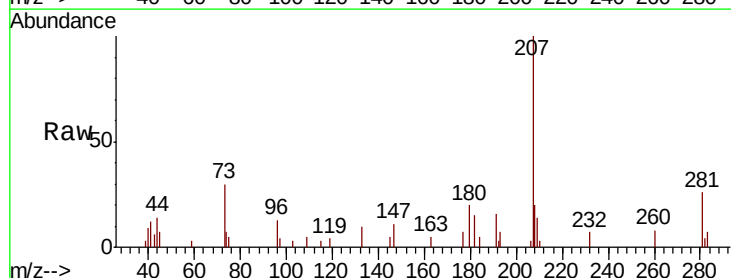
Tgt Ion: 180 Resp: 1774

Ion Ratio Lower Upper

180 100

182 95.5 47.4 142.2

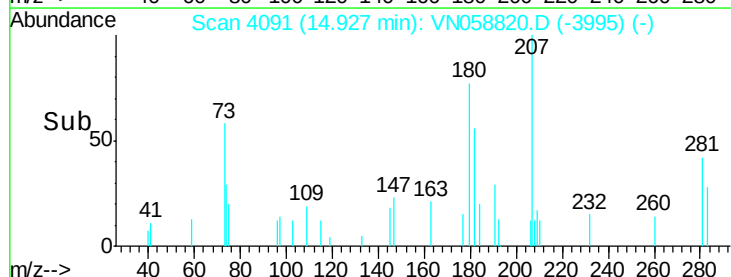
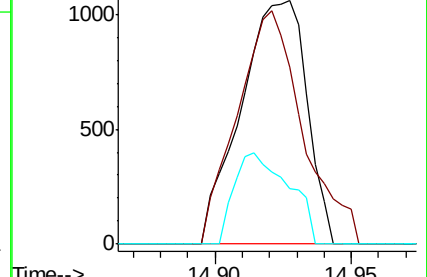
145 31.4 15.4 46.2

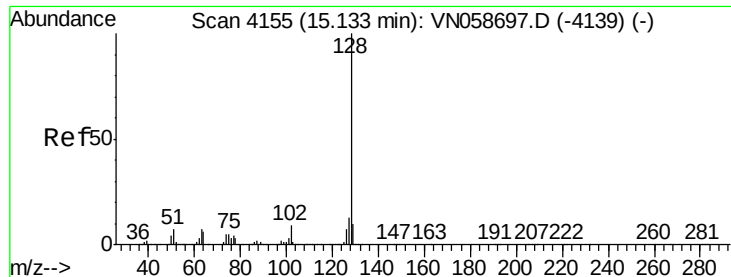


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.713 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

Instrument :

MSVOA_N

ClientSampleId :

PB124032TB

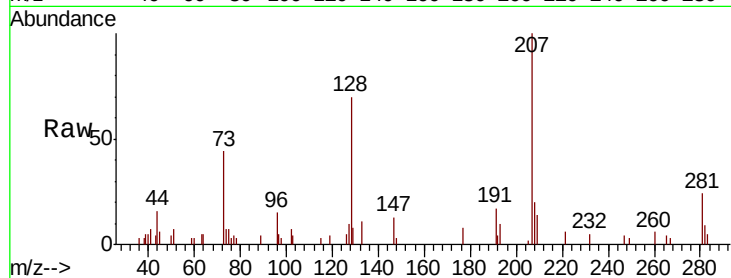
Tot Ion:128 Resp: 8042

Ion Ratio Lower Upper

128 100

127 11.5 10.2 15.4

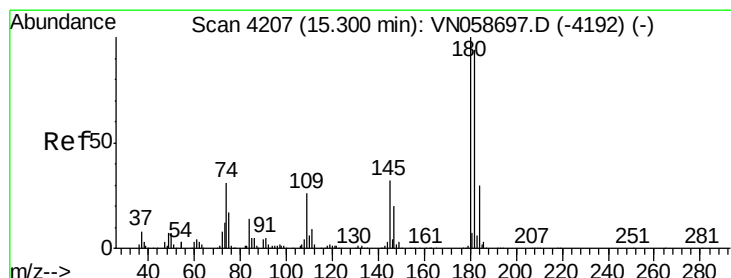
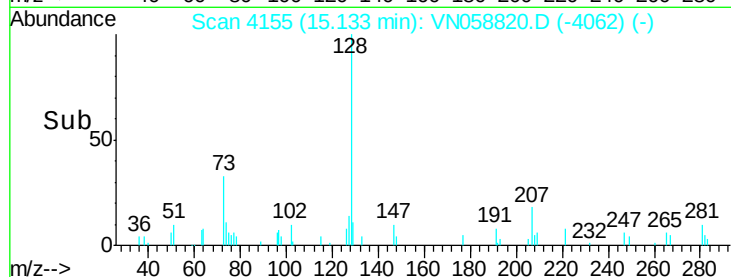
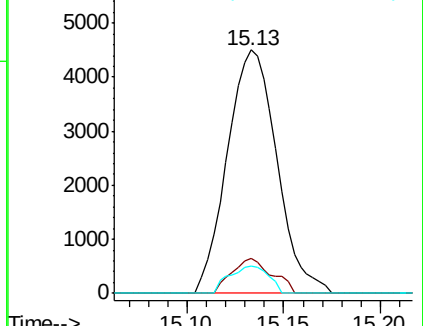
129 8.8 8.5 12.7



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



#96

1,2,3-Trichlorobenzene

Concen: 0.528 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058820.D

Acq: 17 Oct 2019 12:35

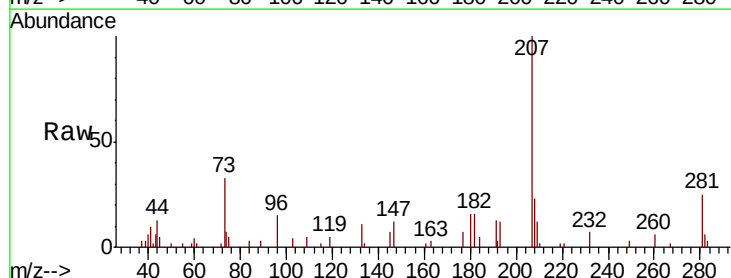
Tgt Ion:180 Resp: 2023

Ion Ratio Lower Upper

180 100

182 110.9 47.3 142.0

145 43.4 16.2 48.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

