

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058956.D
 Acq On : 24 Oct 2019 13:22
 Operator : JC/SP
 Sample : K5508-02DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 S32-0666DL

Quant Time: Oct 25 01:22:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	343612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	544471	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	478686	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	172290	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	258795	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	7.57	113	186062	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
50) Toluene-d8	10.08	98	692612	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	12.40	95	215945	42.32	ug/l	0.00
Spiked Amount			Recovery	=	84.64%	

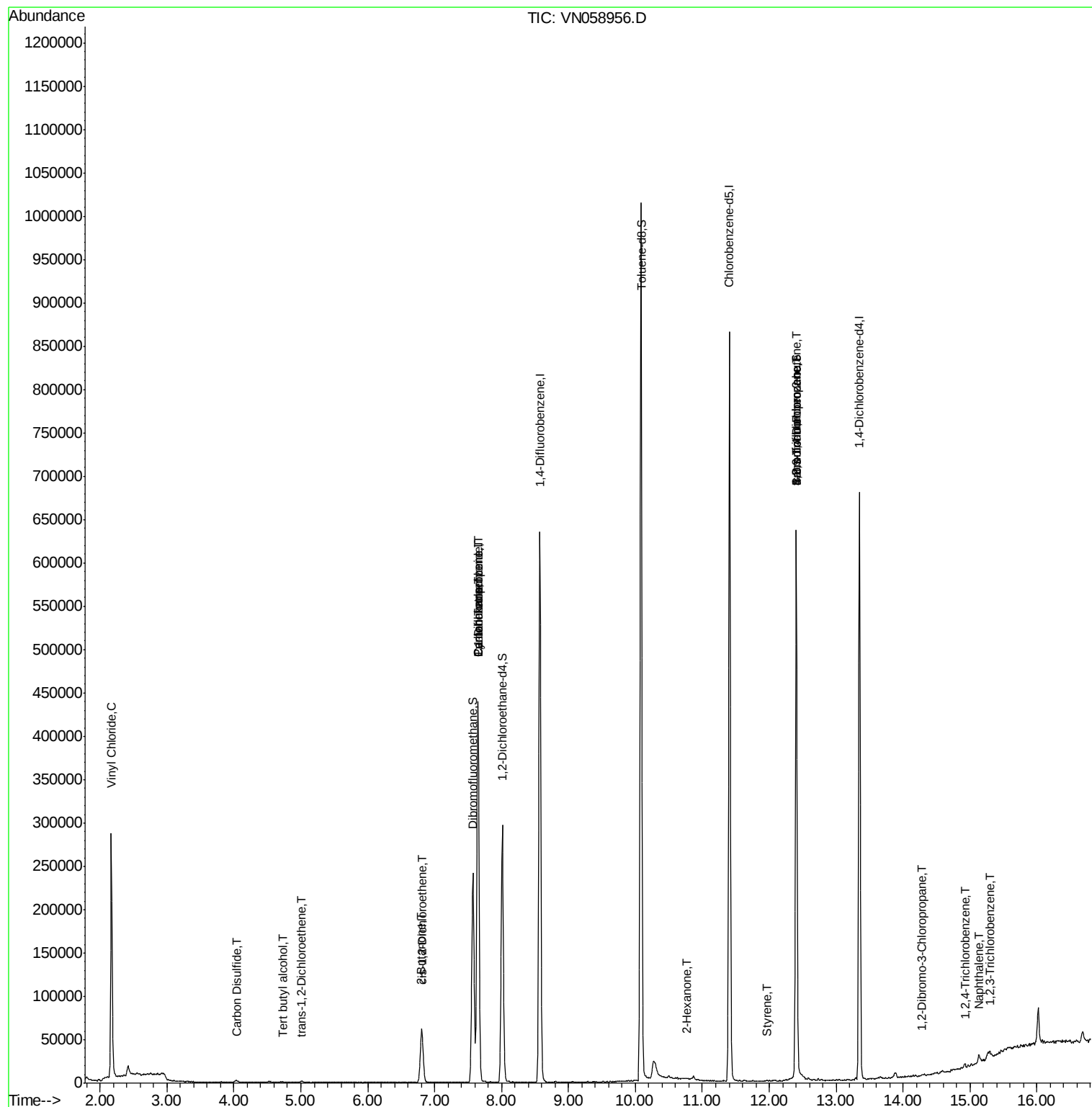
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.17	62	267175	50.713	ug/l	99
11) Tert butyl alcohol	4.72	59	673	0.805	ug/l #	72
17) Carbon Disulfide	4.03	76	3285	0.301	ug/l #	75
21) trans-1,2-Dichloroethene	5.00	96	1036	0.277	ug/l #	49
25) 2-Butanone	6.80	43	756	0.234	ug/l #	51
27) cis-1,2-Dichloroethene	6.81	96	32323	7.564	ug/l	90
31) Cyclohexane	7.64	56	8158	1.126	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	29609	5.312	ug/l #	51
38) Carbon Tetrachloride	7.65	117	35209	6.131	ug/l #	16
59) 2-Hexanone	10.76	43	1036	0.236	ug/l #	58
70) Styrene	11.97	104	381	1.747	ug/l #	36
71) Bromoform	12.40	173	1236	0.433	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	116334	29.134	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	116334	75.897	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.27	75	285	0.285	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.92	180	1584	2.959	ug/l	97
95) Naphthalene	15.13	128	6242	2.830	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	2234	3.031	ug/l	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampleID :

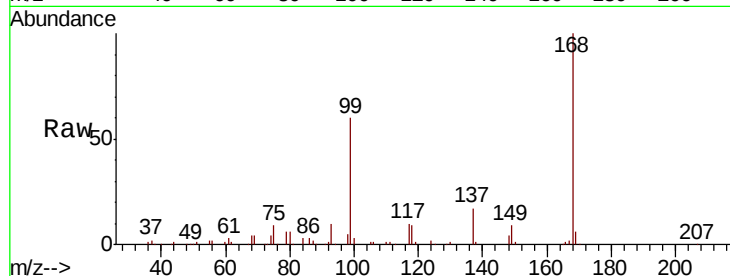
S32-0666DL

Tot Ion:168 Resp: 343612

Ion Ratio Lower Upper

168 100

99 59.8 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

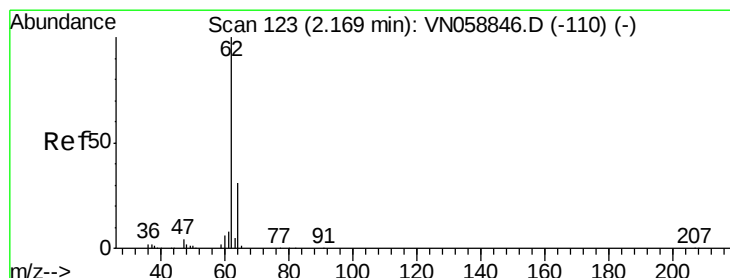
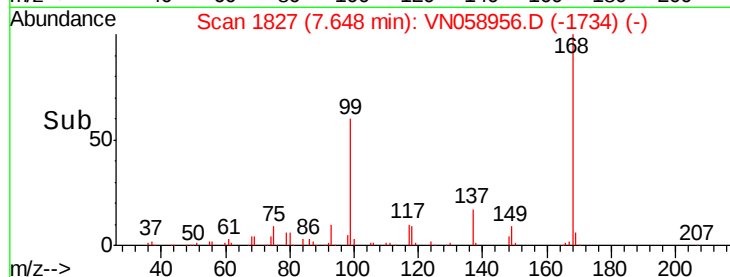
100000

50000

0

7.60 7.70

Time-->



#4

Vinyl Chloride

Concen: 50.713 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058956.D

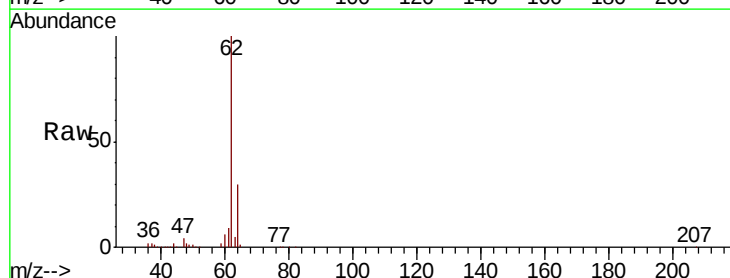
Acq: 24 Oct 2019 13:22

Tgt Ion: 62 Resp: 267175

Ion Ratio Lower Upper

62 100

64 30.4 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

2.17

200000

150000

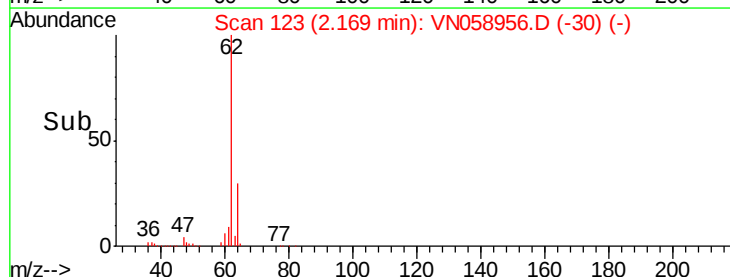
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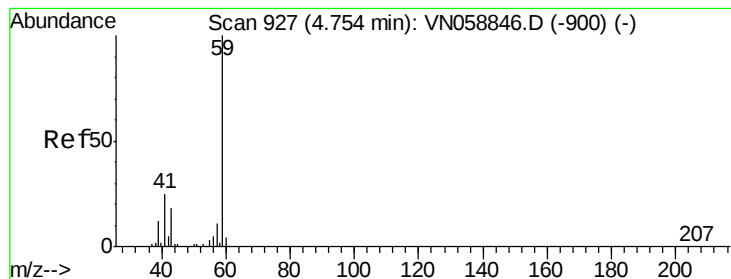
50000

0

2.10 2.20 2.30

Time-->



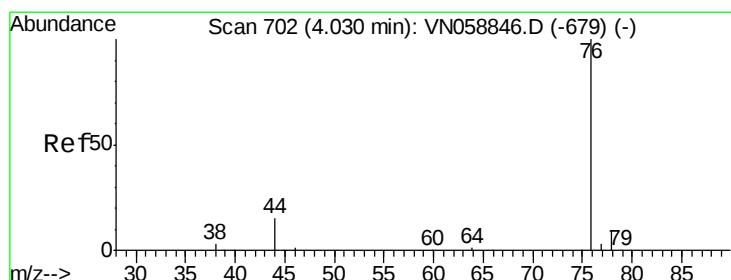
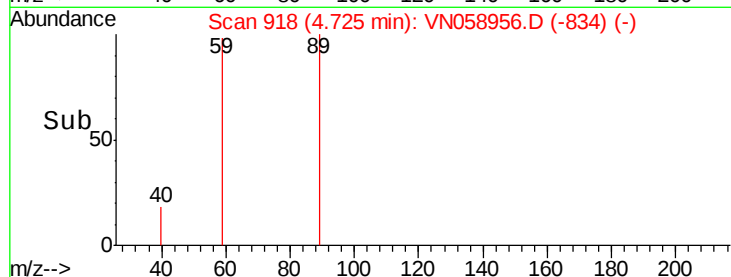
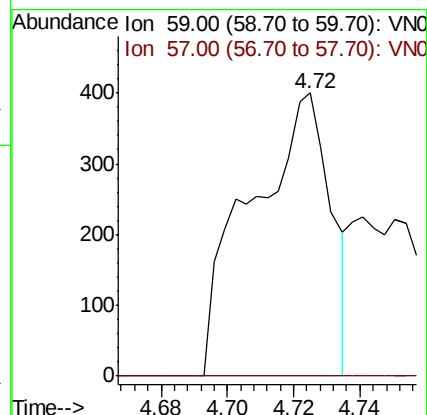
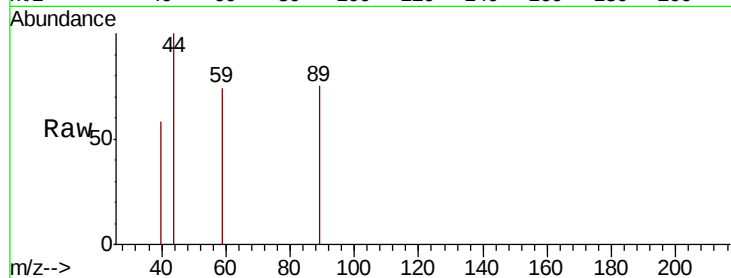


#11

Tert butyl alcohol
 Concen: 0.805 ug/l
 RT: 4.72 min Scan# 918
 Delta R.T. -0.03 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

Instrument :
 MSVOA_N
 ClientSampled :
 S32-0666DL

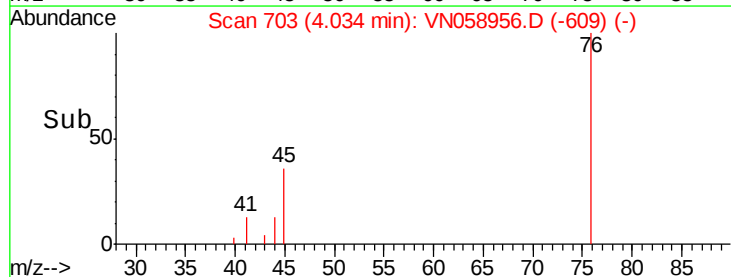
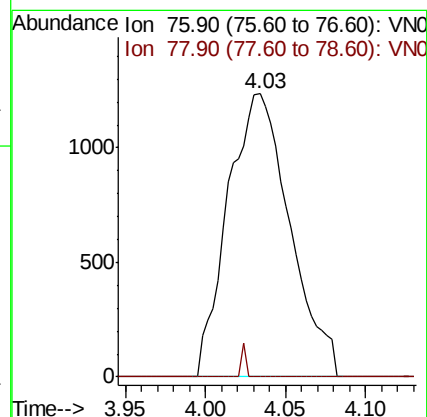
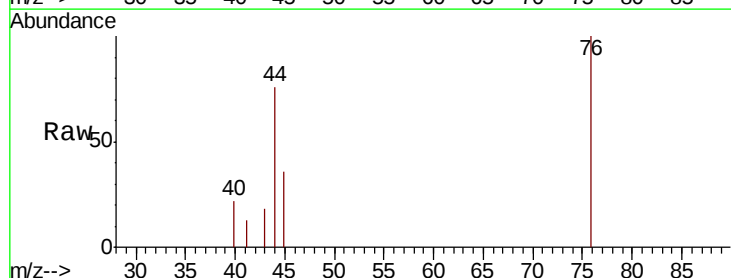
Tot Ion: 59 Resp: 673
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

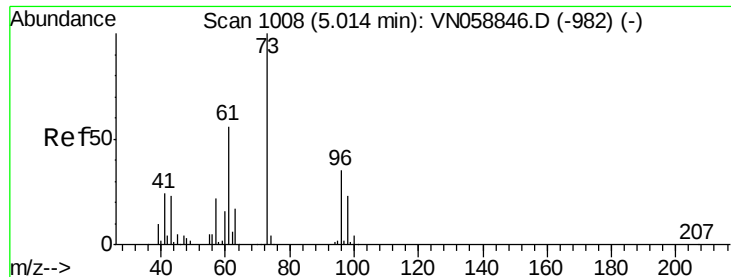


#17

Carbon Disulfide
 Concen: 0.301 ug/l
 RT: 4.03 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

Tgt Ion: 76 Resp: 3285
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.1 10.7#





#21

trans-1,2-Dichloroethene

Concen: 0.277 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. -0.01 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

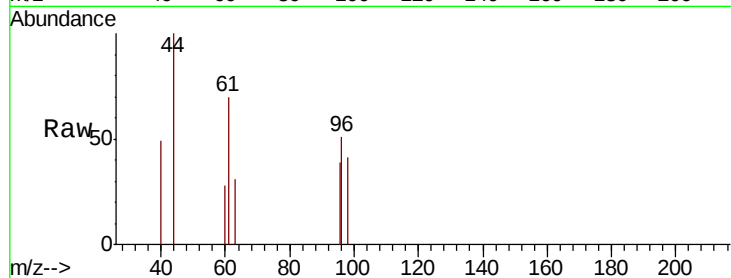
Tot Ion: 96 Resp: 1036

Ion Ratio Lower Upper

96 100

61 78.1 126.7 190.1#

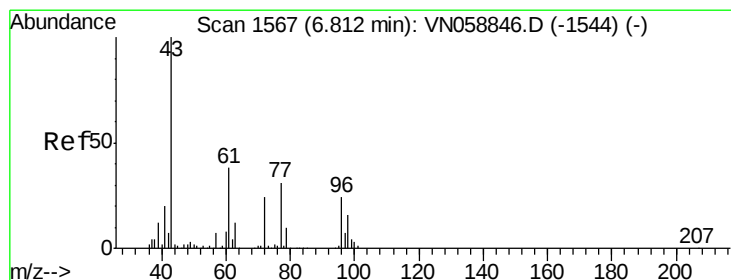
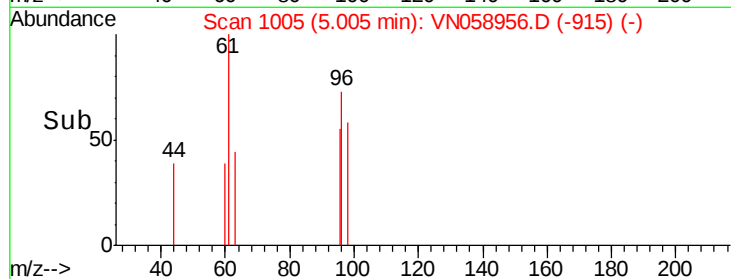
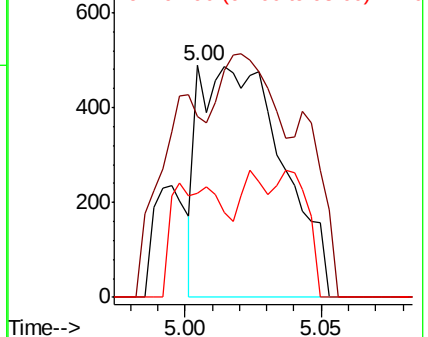
98 45.1 52.0 78.0#



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#25

2-Butanone

Concen: 0.234 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.02 min

Lab File: VN058956.D

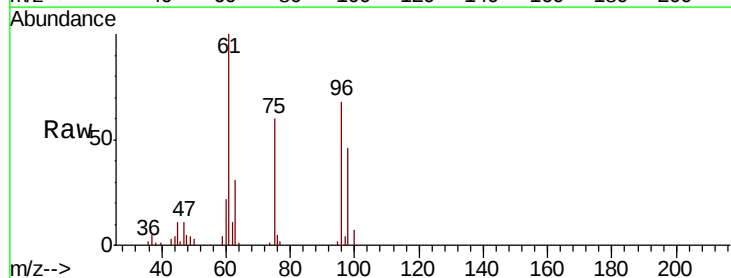
Acq: 24 Oct 2019 13:22

Tgt Ion: 43 Resp: 756

Ion Ratio Lower Upper

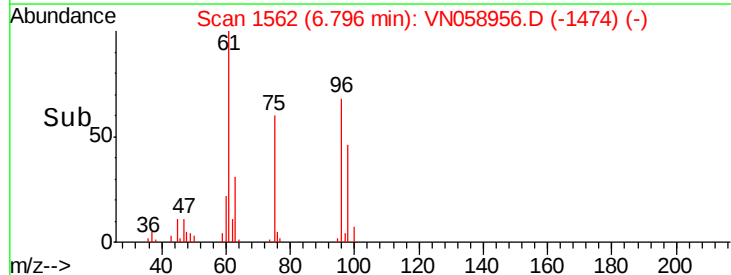
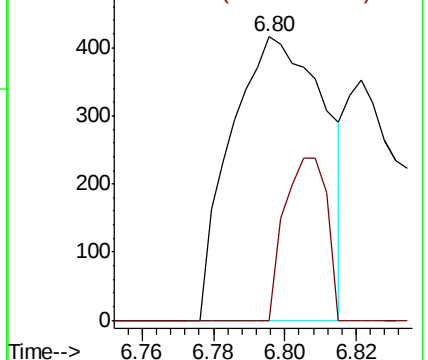
43 100

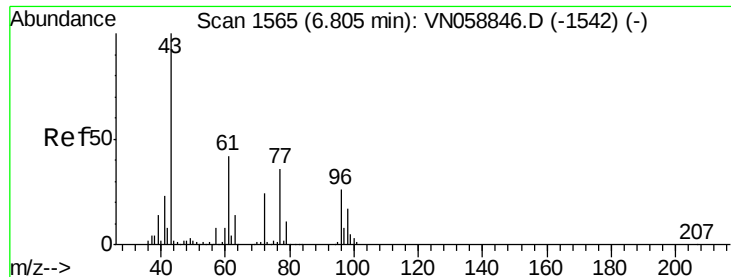
72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 7.564 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

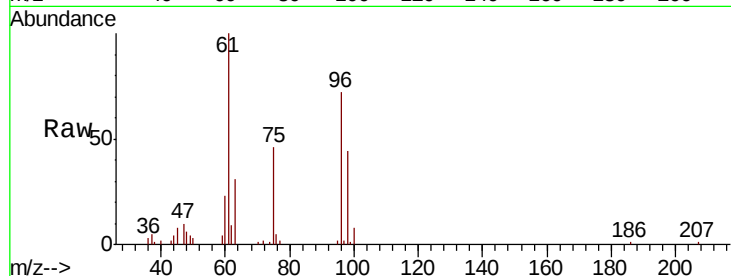
Tot Ion: 96 Resp: 32323

Ion Ratio Lower Upper

96 100

61 144.2 0.0 325.0

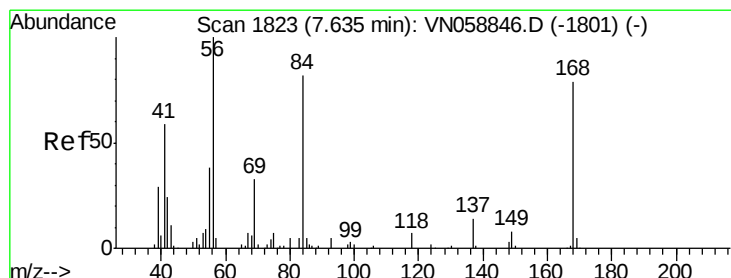
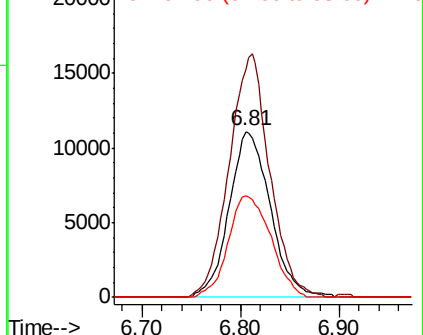
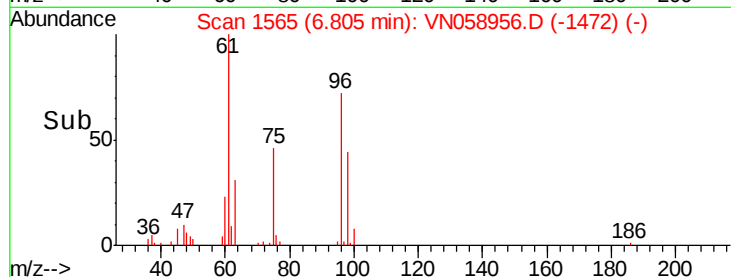
98 63.2 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.126 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

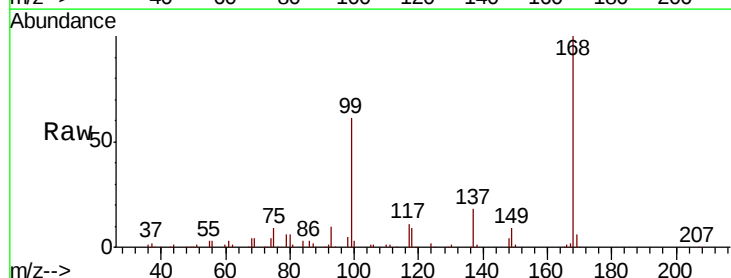
Tgt Ion: 56 Resp: 8158

Ion Ratio Lower Upper

56 100

69 161.7 26.2 39.4#

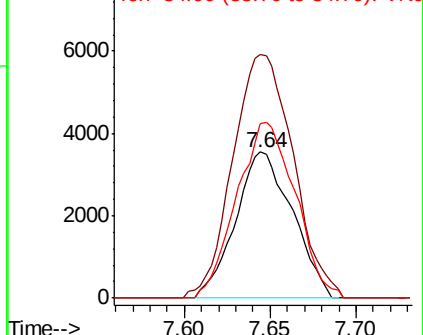
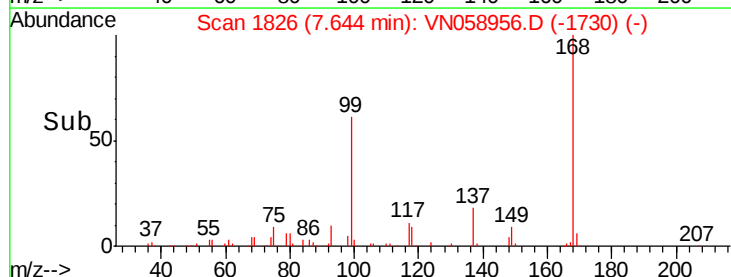
84 119.6 65.6 98.4#

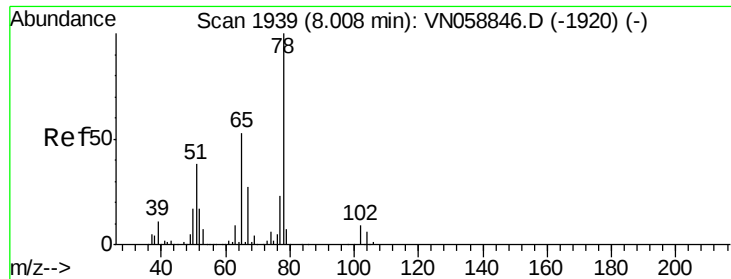


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

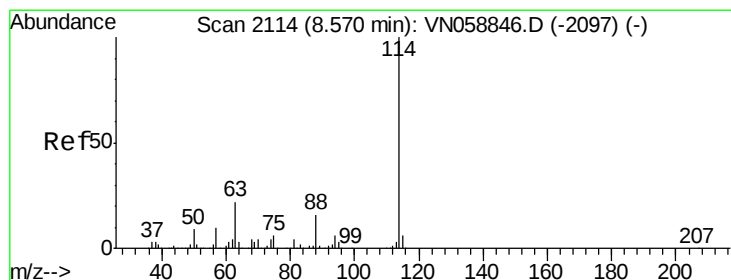
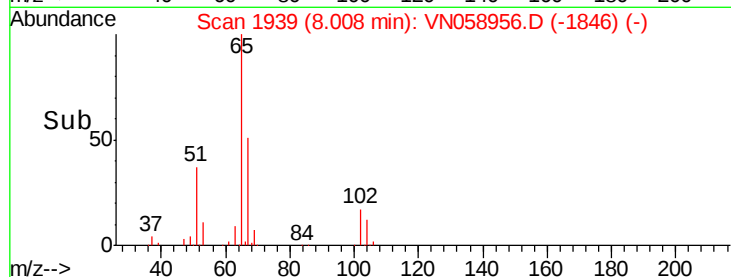
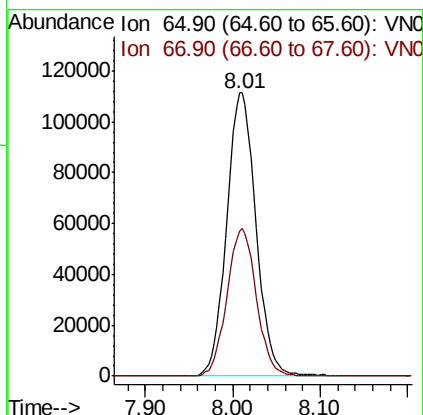
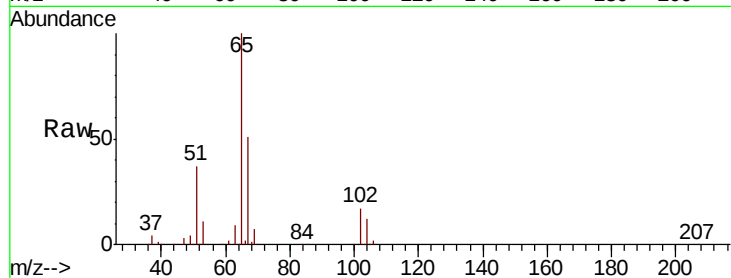




#33
 1,2-Dichloroethane-d4
 Concen: 51.352 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

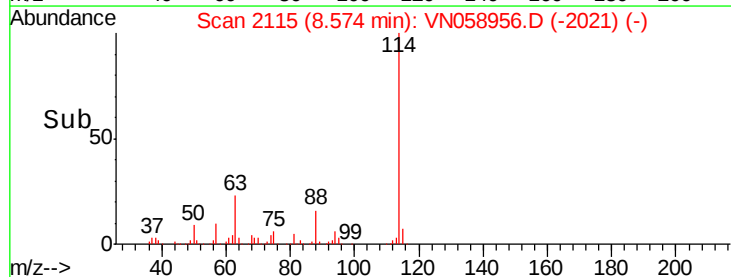
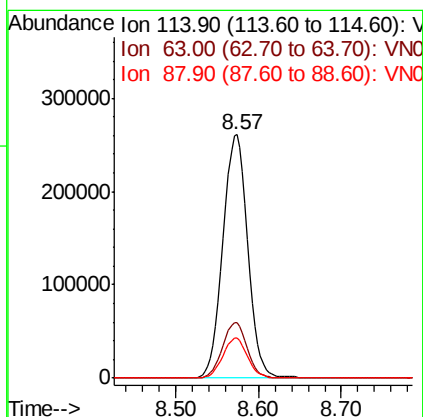
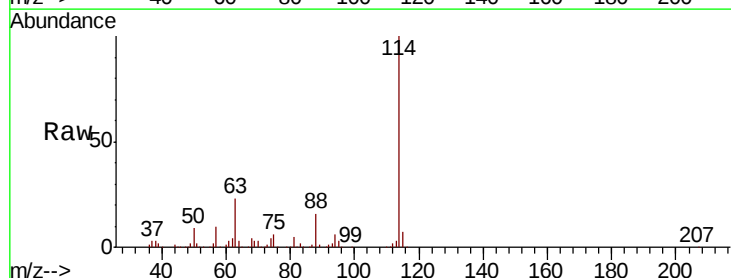
Instrument :
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 S32-0666DL

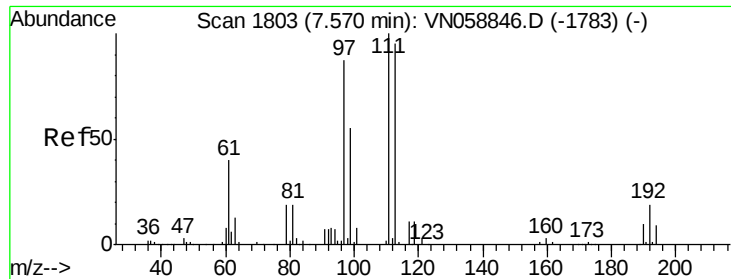
Tot Ion: 65 Resp: 258795
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

Tgt Ion: 114 Resp: 544471
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.4
 88 16.4 0.0 31.4

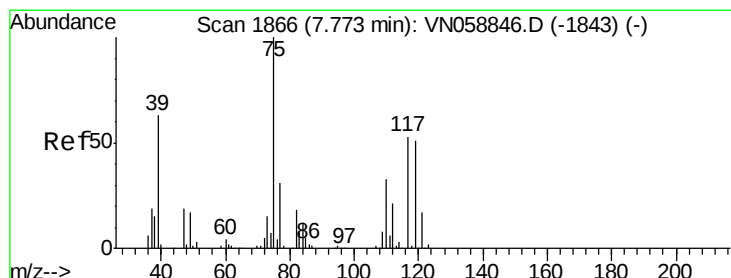
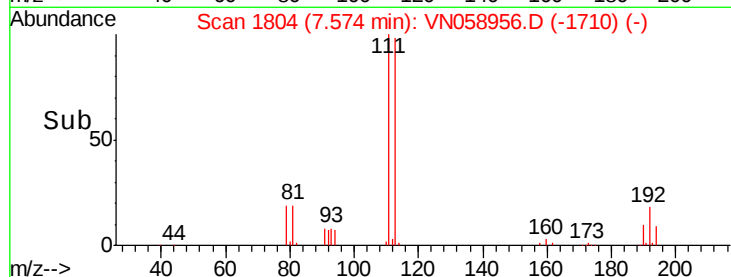
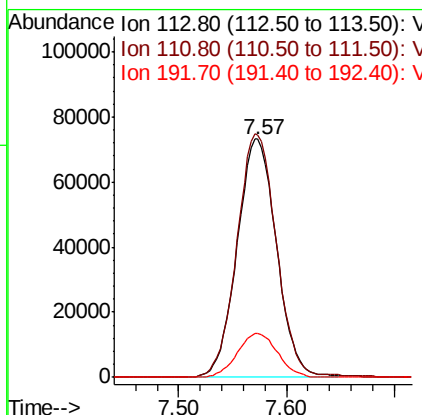
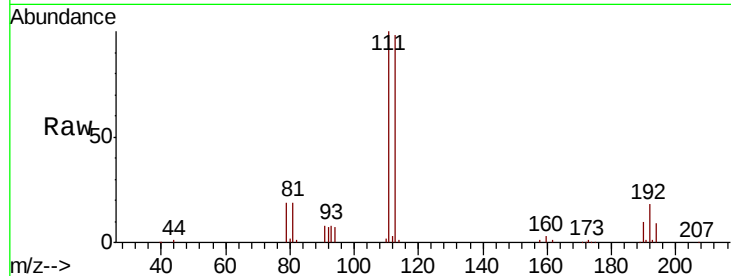




#35
 Dibromofluoromethane
 Concen: 51.976 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

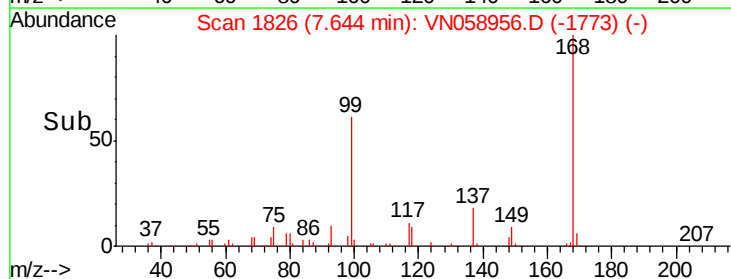
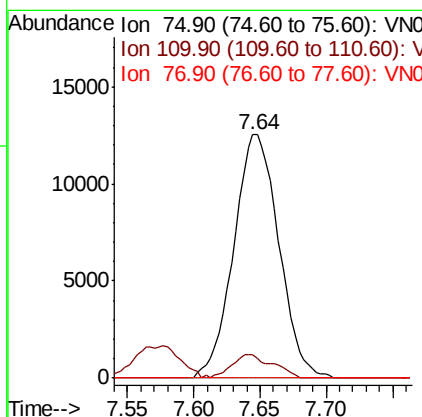
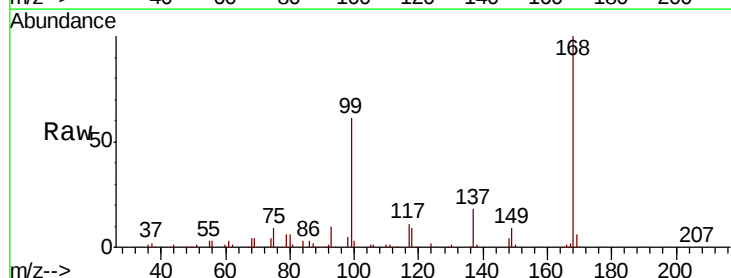
Instrument :
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 ClientSampleID :
 S32-0666DL

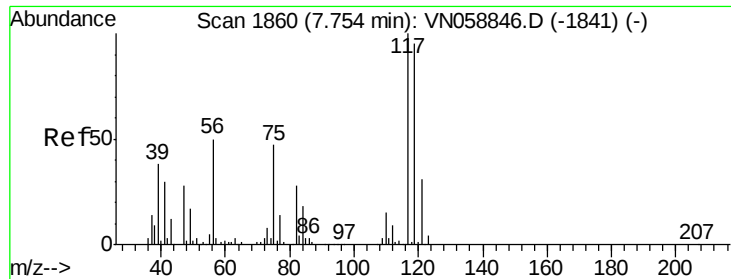
Tot Ion:113 Resp: 186062
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.0 123.0
 192 18.9 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 5.312 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN058956.D
 Acq: 24 Oct 2019 13:22

Tgt Ion: 75 Resp: 29609
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.3 48.9#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.131 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

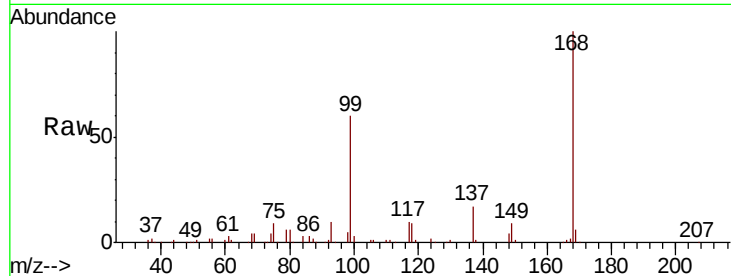
Tot Ion:117 Resp: 35209

Ion Ratio Lower Upper

117 100

119 4.8 75.7 113.5#

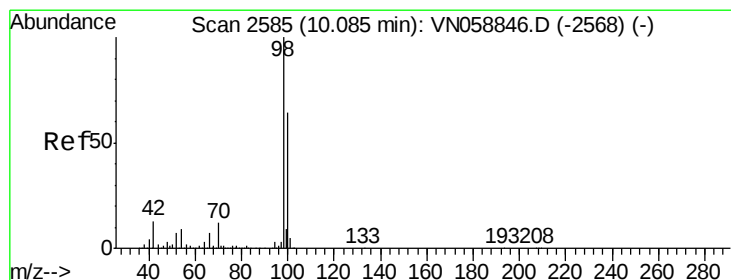
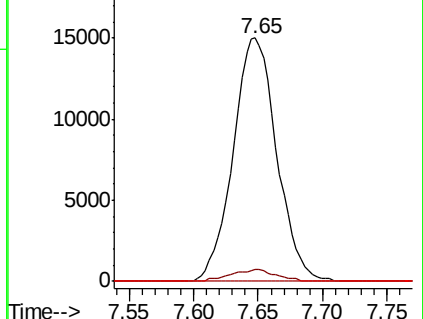
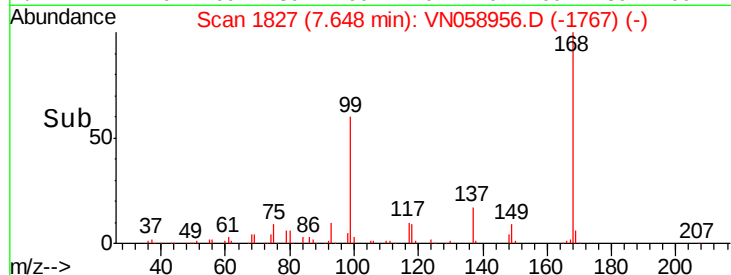
121 0.0 25.0 37.6#



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



#50

Toluene-d8

Concen: 49.842 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058956.D

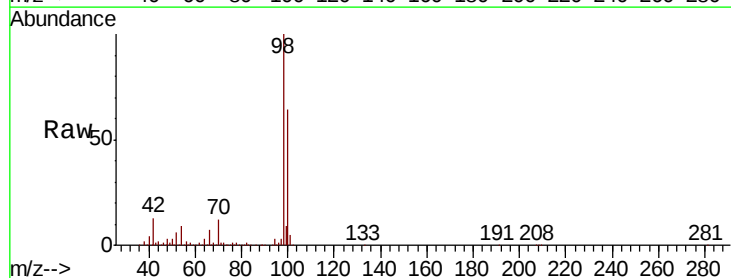
Acq: 24 Oct 2019 13:22

Tgt Ion: 98 Resp: 692612

Ion Ratio Lower Upper

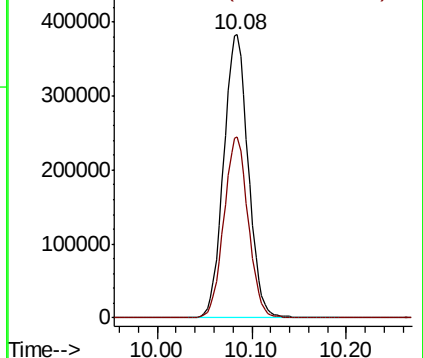
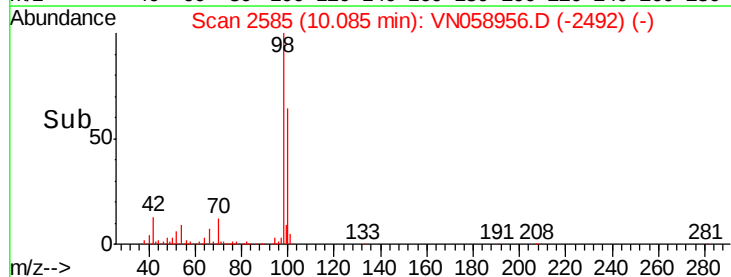
98 100

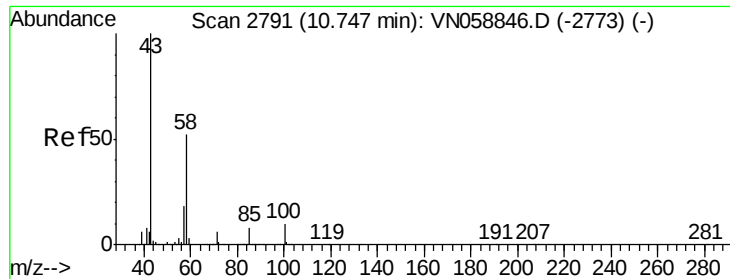
100 63.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

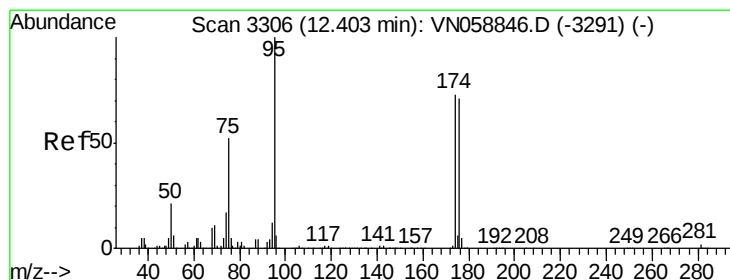
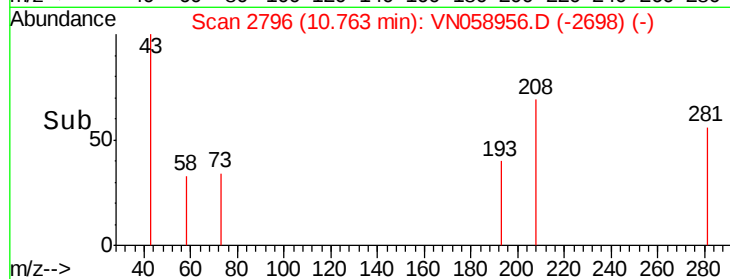
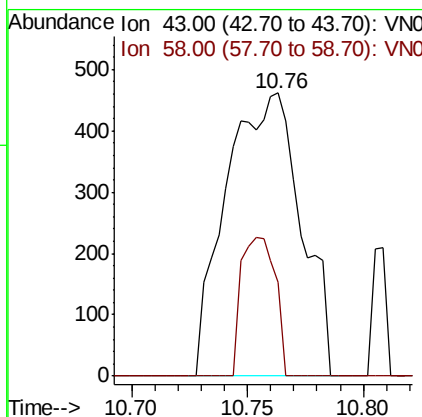
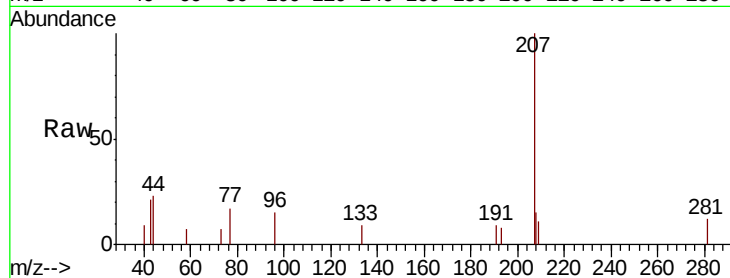




#59
2-Hexanone
Concen: 0.236 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN058956.D
Acq: 24 Oct 2019 13:22

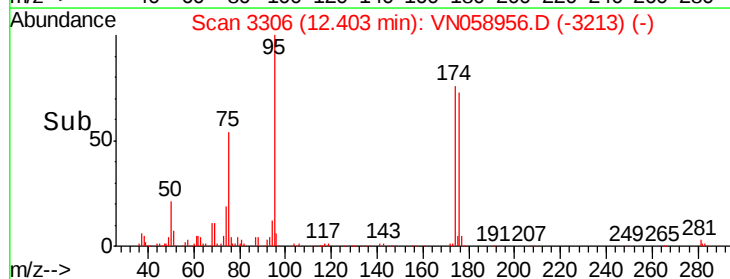
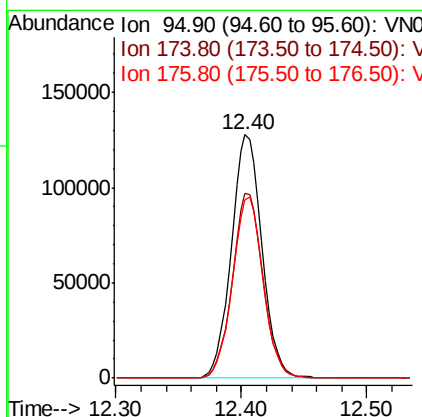
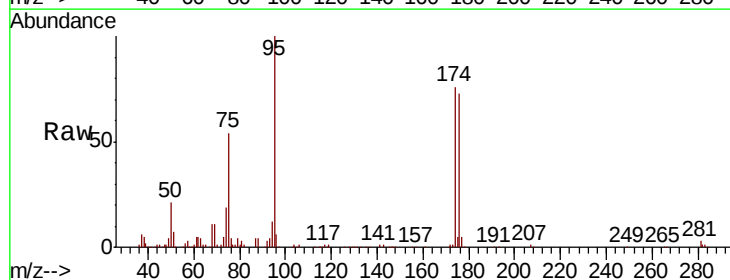
Instrument :
MSVOA_N
ClientSampled :
S32-0666DL

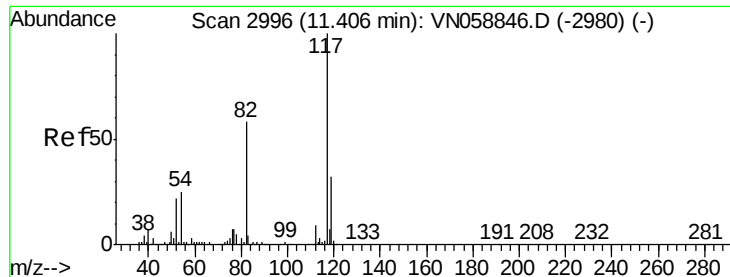
Tot Ion: 43 Resp: 1036
Ion Ratio Lower Upper
43 100
58 22.2 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 42.317 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058956.D
Acq: 24 Oct 2019 13:22

Tgt Ion: 95 Resp: 215945
Ion Ratio Lower Upper
95 100
174 76.0 0.0 147.6
176 74.1 0.0 143.2

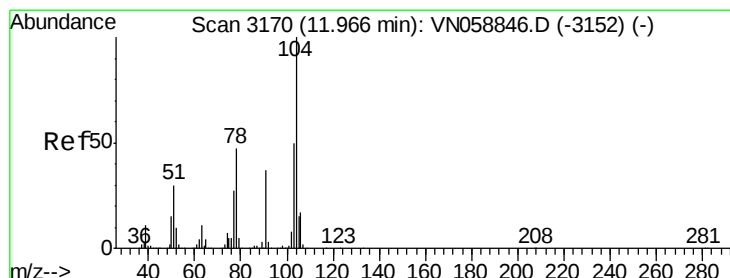
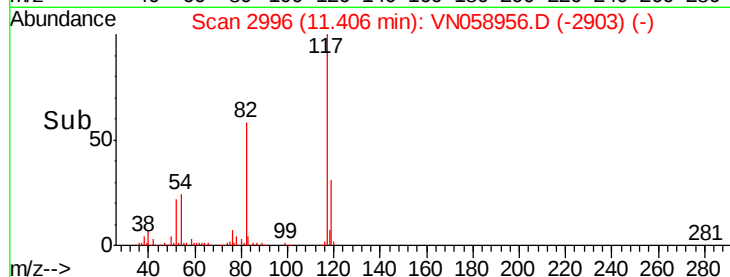
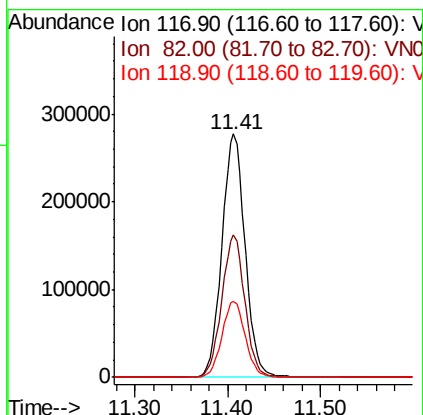
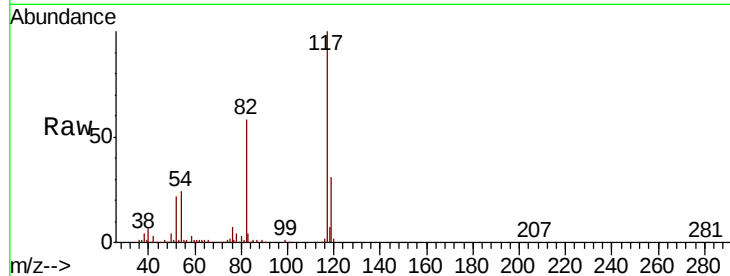




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058956.D
Acq: 24 Oct 2019 13:22

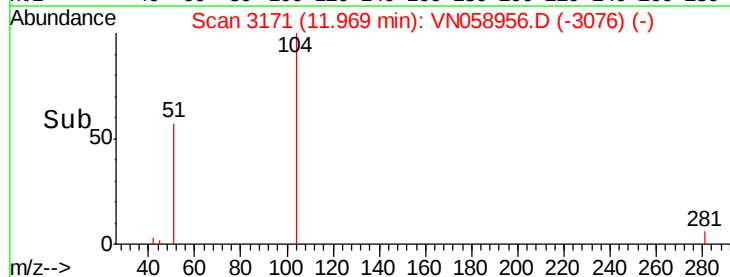
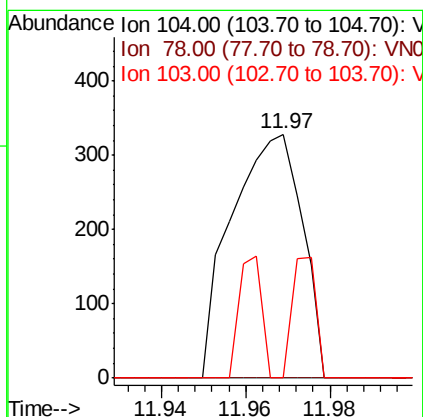
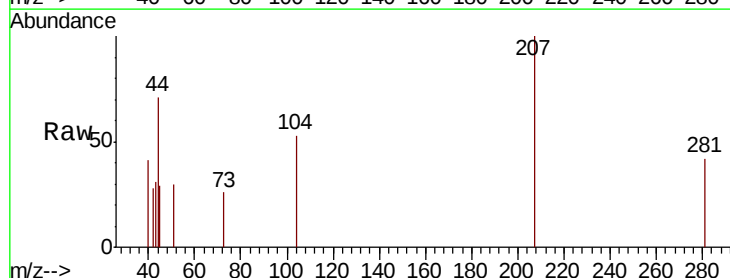
Instrument :
MSVOA_N
ClientSampled :
S32-0666DL

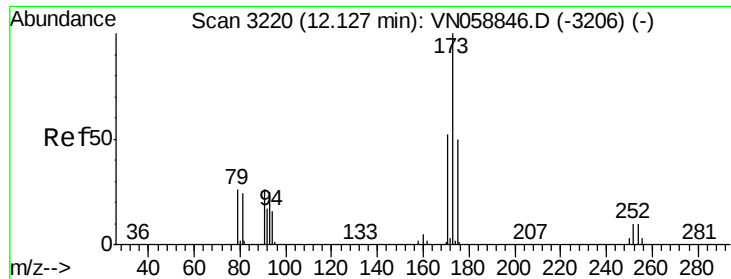
Tot Ion:117 Resp: 478686
Ion Ratio Lower Upper
117 100
82 58.4 46.6 69.8
119 31.4 25.6 38.4



#70
Styrene
Concen: 1.747 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN058956.D
Acq: 24 Oct 2019 13:22

Tgt Ion:104 Resp: 381
Ion Ratio Lower Upper
104 100
78 0.0 42.8 64.2#
103 16.3 44.3 66.5#





#71

Bromoform

Concen: 0.433 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

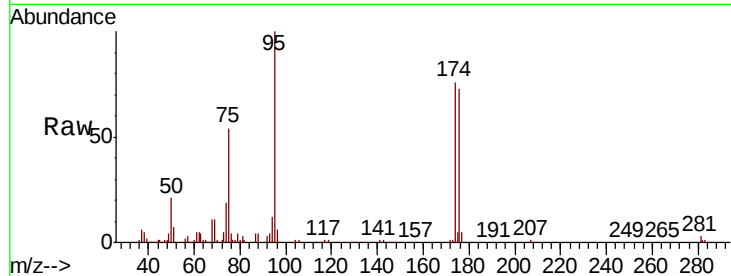
Tot Ion:173 Resp: 1236

Ion Ratio Lower Upper

173 100

175 765.4 24.7 74.1#

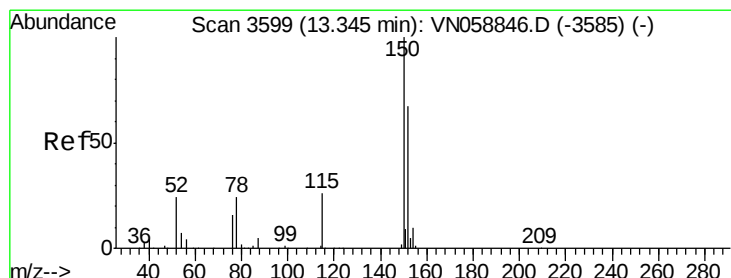
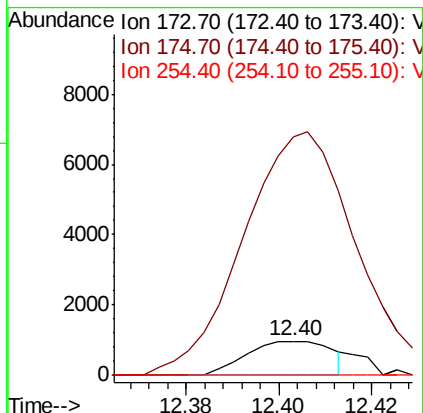
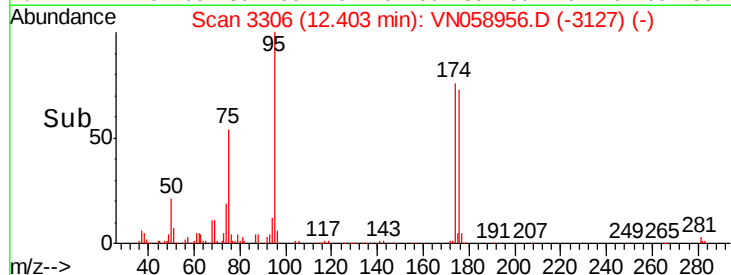
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

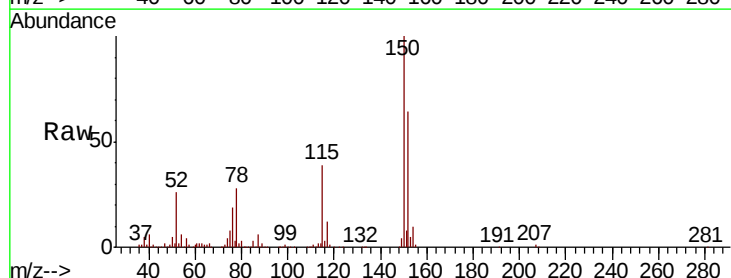
Tgt Ion:152 Resp: 172290

Ion Ratio Lower Upper

152 100

115 61.6 30.5 91.5

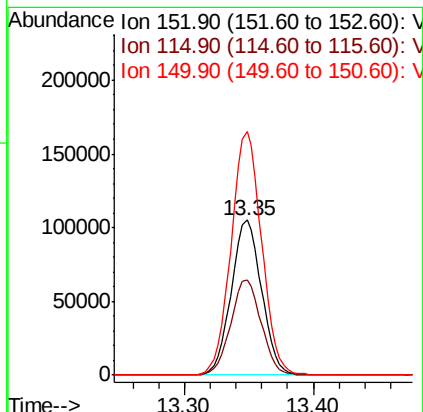
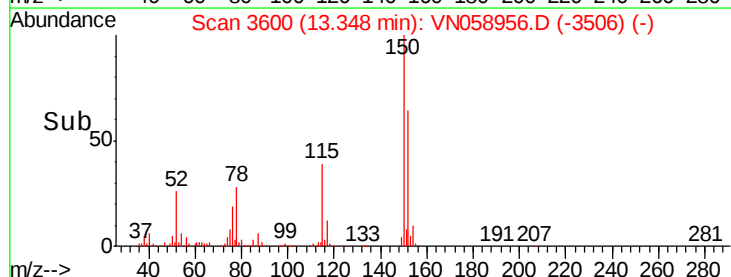
150 157.2 0.0 344.4

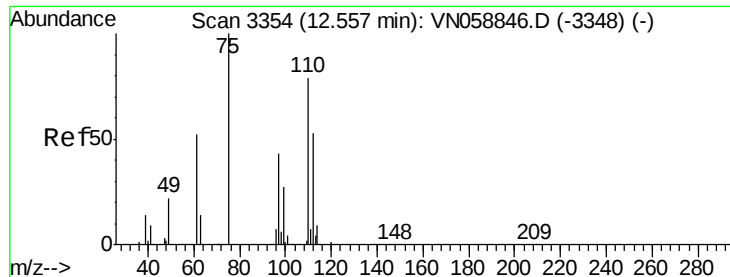


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.134 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampleId :

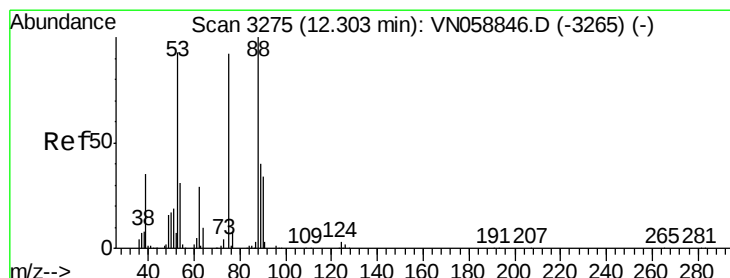
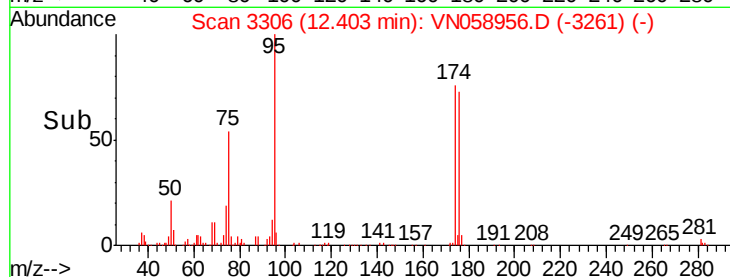
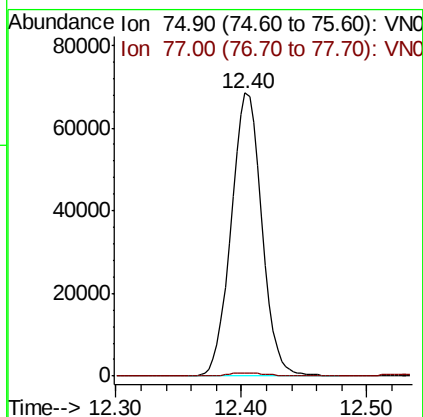
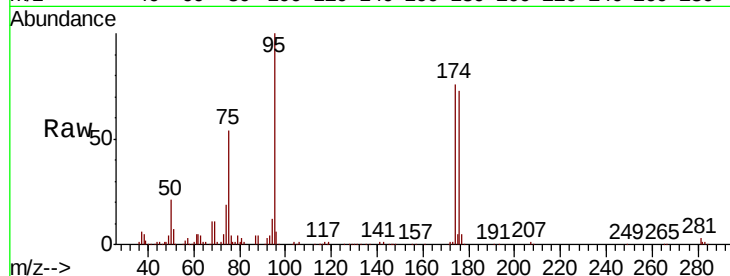
S32-0666DL

Tot Ion: 75 Resp: 116334

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.897 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

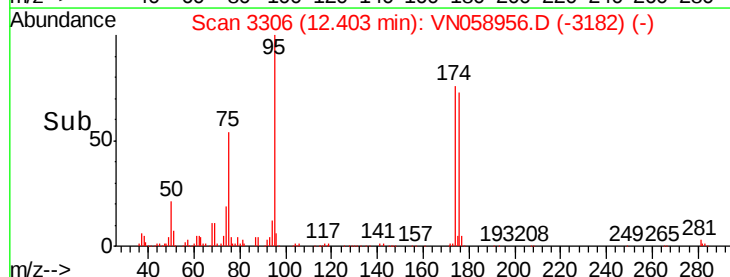
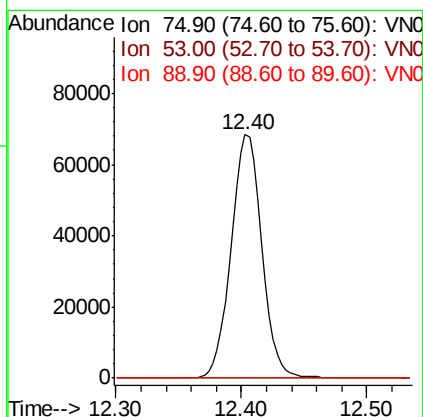
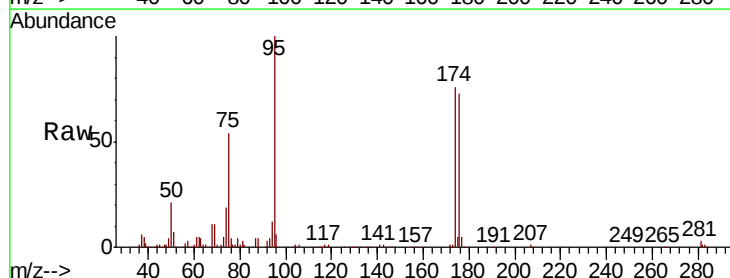
Tgt Ion: 75 Resp: 116334

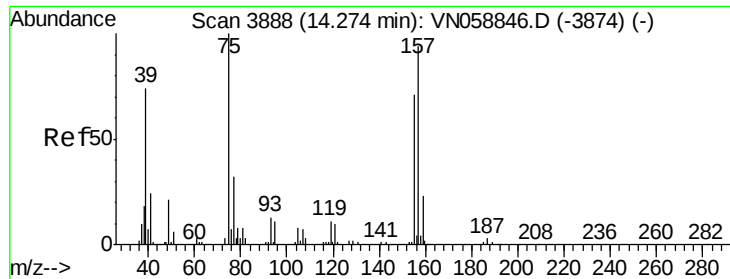
Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

89 0.1 35.4 53.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.285 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

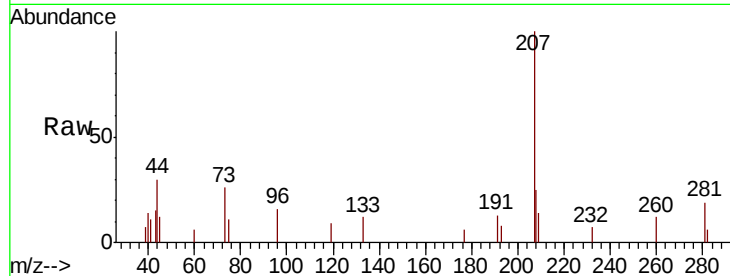
Tot Ion: 75 Resp: 285

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.8#

157 0.0 47.4 142.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3874) (-)

Ion 154.80 (154.50 to 155.50): VN058846.D (-3874) (-)

Ion 156.80 (156.50 to 157.50): VN058846.D (-3874) (-)

14.27

300

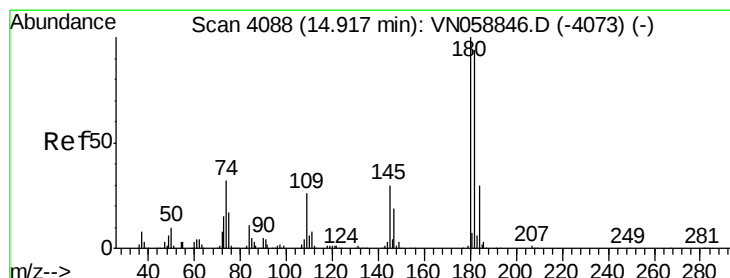
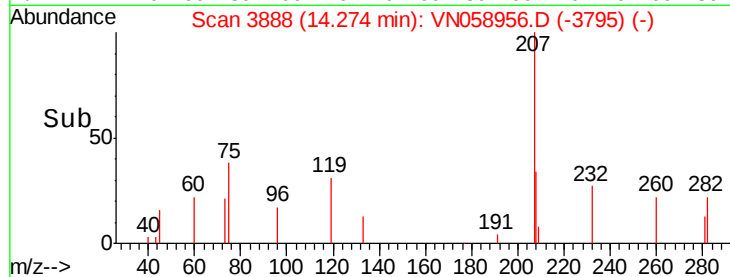
200

100

0

14.26 14.28 14.30

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.959 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

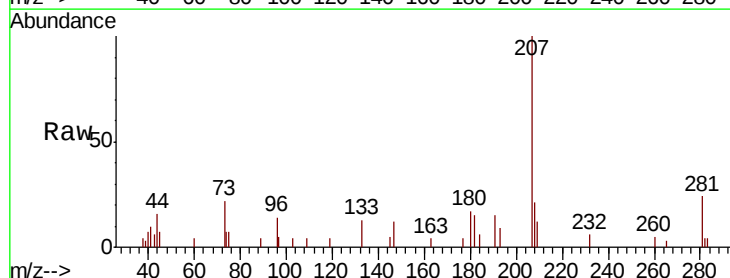
Tgt Ion: 180 Resp: 1584

Ion Ratio Lower Upper

180 100

182 92.0 47.3 142.0

145 31.4 15.3 45.8



Abundance Ion 179.80 (179.50 to 180.50): VN058846.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058846.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058846.D (-4073) (-)

14.92

1200

1000

800

600

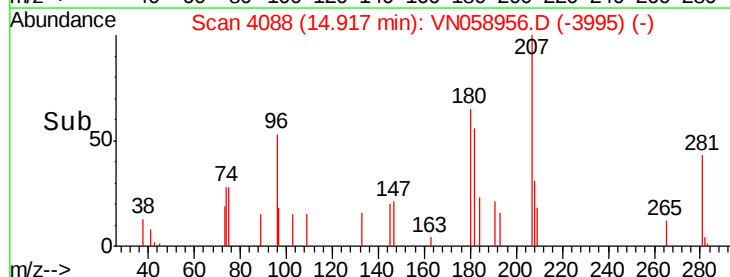
400

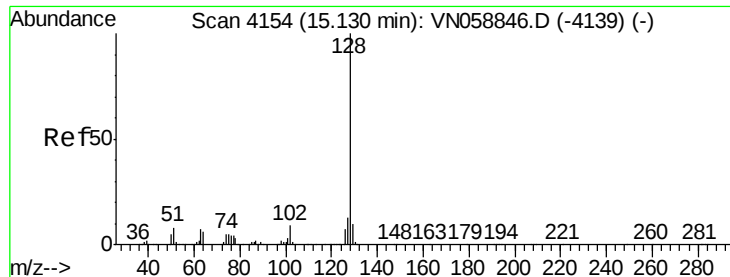
200

0

14.90 14.95

Time-->





#95

Naphthalene

Concen: 2.830 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

Instrument :

MSVOA_N

ClientSampled :

S32-0666DL

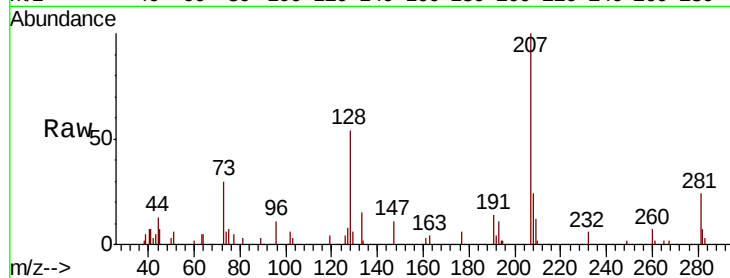
Tot Ion:128 Resp: 6242

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.2

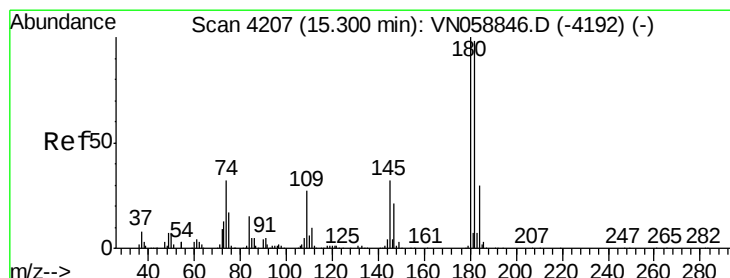
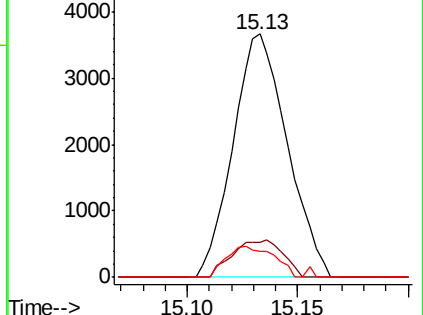
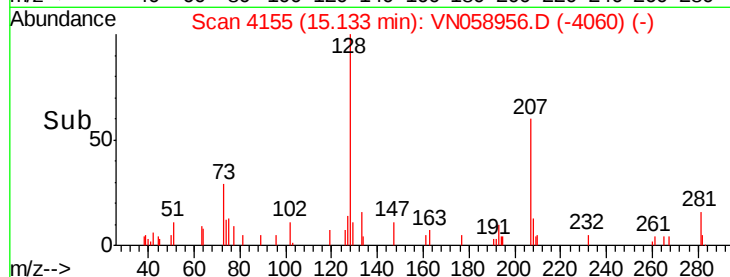
129 11.4 8.4 12.6



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: 3.031 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058956.D

Acq: 24 Oct 2019 13:22

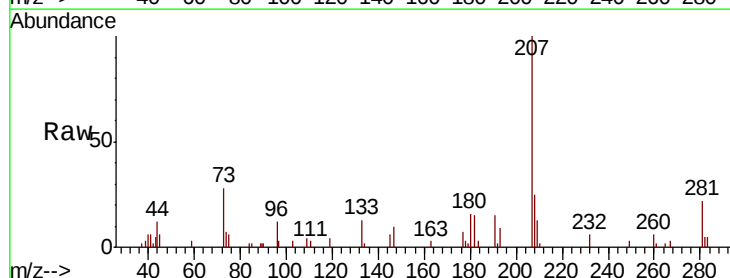
Tgt Ion:180 Resp: 2234

Ion Ratio Lower Upper

180 100

182 88.3 47.9 143.7

145 31.4 15.9 47.7



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

