

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056261.D
 Acq On : 12 Jun 2019 20:12
 Operator : JC/SP
 Sample : K3315-15DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20190610DL

Quant Time: Jun 13 04:35:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	305296	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	465942	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	459919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	150369	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	154038	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
35) Dibromofluoromethane	7.59	113	146226	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
50) Toluene-d8	10.09	98	570348	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	12.40	95	182969	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	

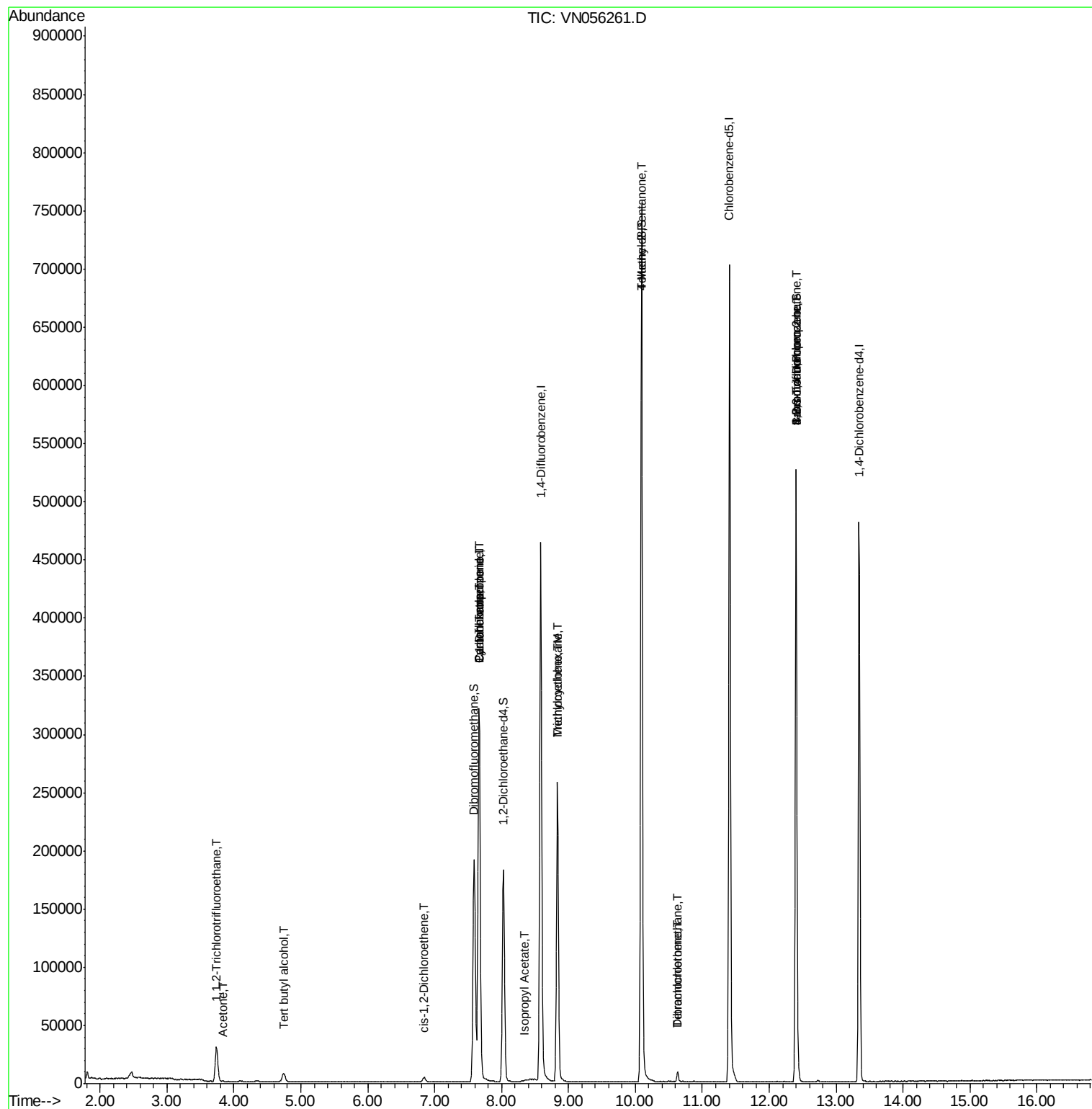
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.74	101	18594	7.223	ug/l	96
11) Tert butyl alcohol	4.74	59	7019	13.306	ug/l #	74
16) Acetone	3.83	43	399	0.275	ug/l #	41
18) Methyl Acetate	4.33	43	1456	Below Cal	#	51
27) cis-1,2-Dichloroethene	6.83	96	900	0.279	ug/l	87
31) Cyclohexane	7.66	56	3980	0.827	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	17223	4.299	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24358	6.594	ug/l #	15
39) Methylcyclohexane	8.83	83	1015	0.203	ug/l #	1
43) Isopropyl Acetate	8.35	43	1634	0.283	ug/l #	53
44) Trichloroethene	8.83	130	106696	30.514	ug/l	96
51) 4-Methyl-2-Pentanone	10.09	43	2264	0.627	ug/l #	1
60) Dibromochloromethane	10.63	129	1818	2.974	ug/l #	11
64) Tetrachloroethene	10.63	164	2498	0.627	ug/l	90
71) Bromoform	12.40	173	1386	3.236	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	83780	30.280	ug/l #	100
79) 2-Chlorotoluene	12.40	91	453	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	83780	100.838	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

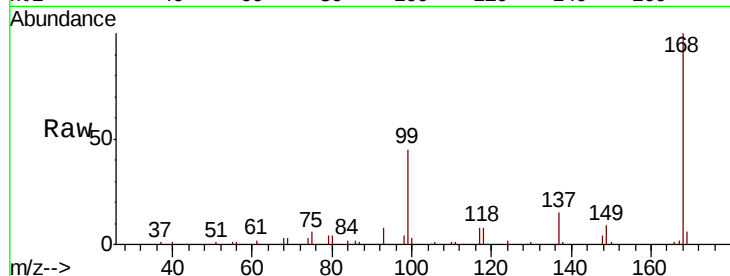
RE125D3-20190610DL

Tot Ion:168 Resp: 305296

Ion Ratio Lower Upper

168 100

99 45.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

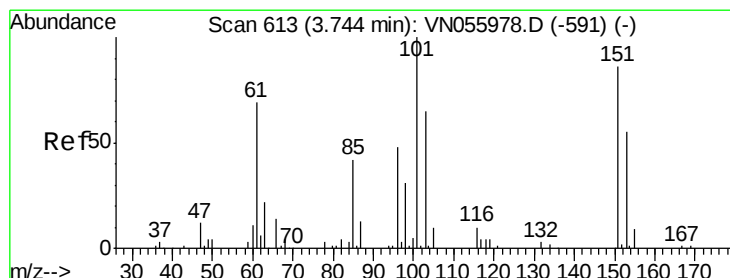
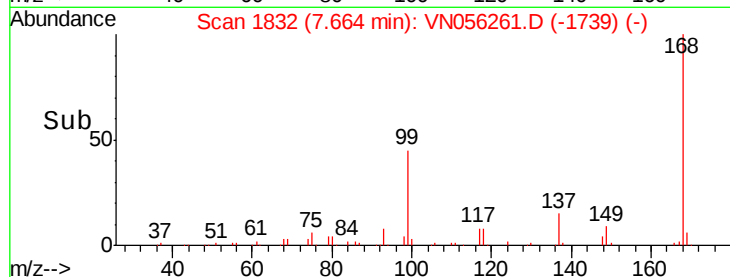
150000

100000

50000

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 7.223 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

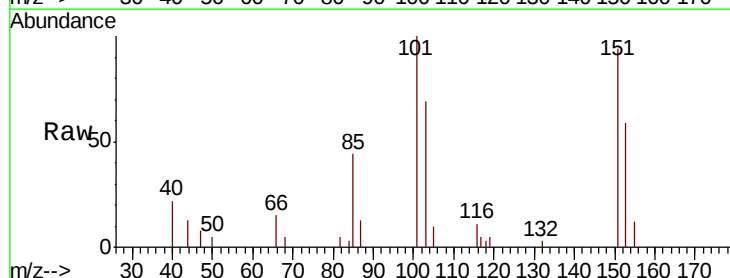
Tgt Ion:101 Resp: 18594

Ion Ratio Lower Upper

101 100

85 41.9 33.4 50.2

151 91.9 69.4 104.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

8000

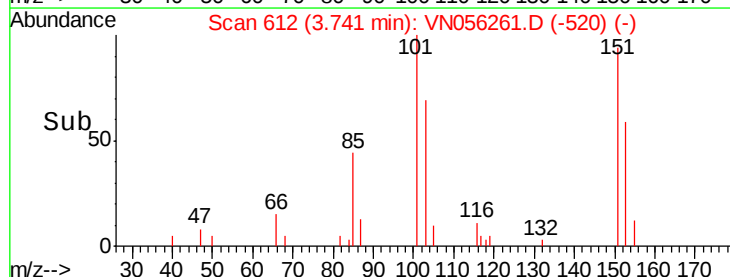
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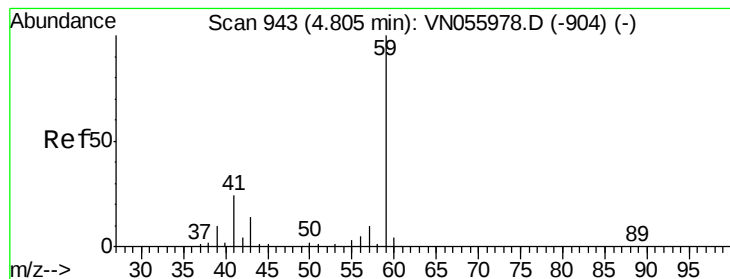
4000

2000

0

Time-->



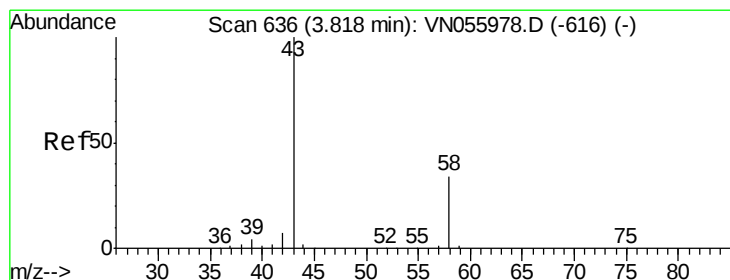
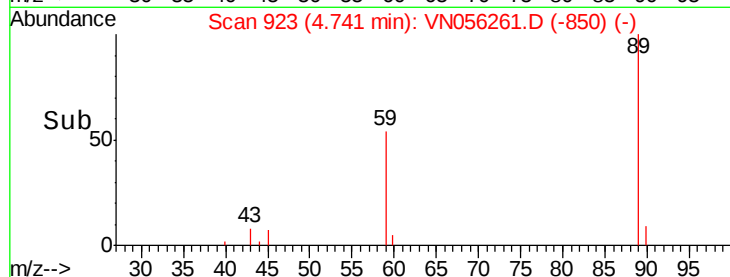
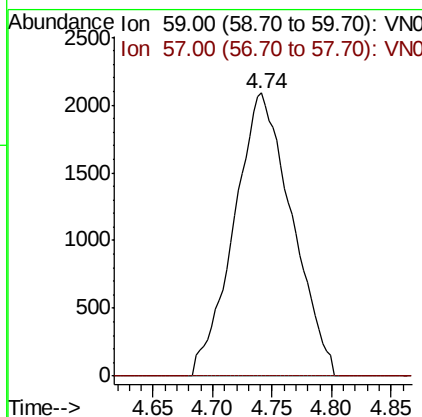
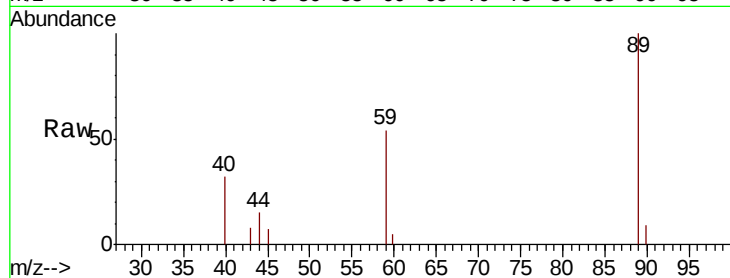


#11

Tert butyl alcohol
 Concen: 13.306 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.06 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20190610DL

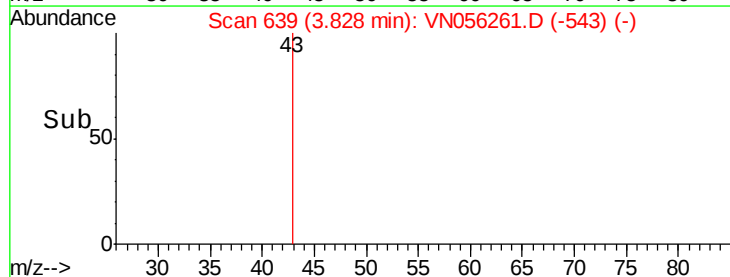
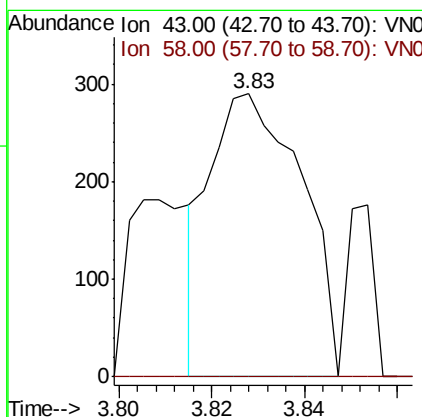
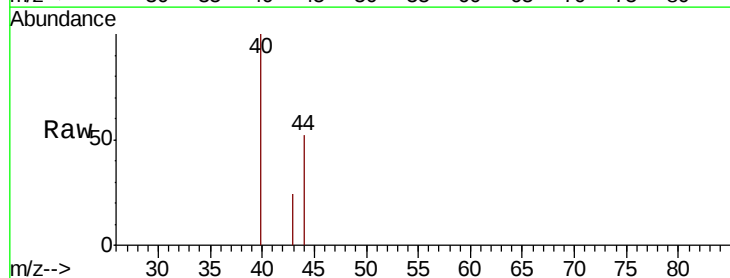
Tot Ion: 59 Resp: 7019
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

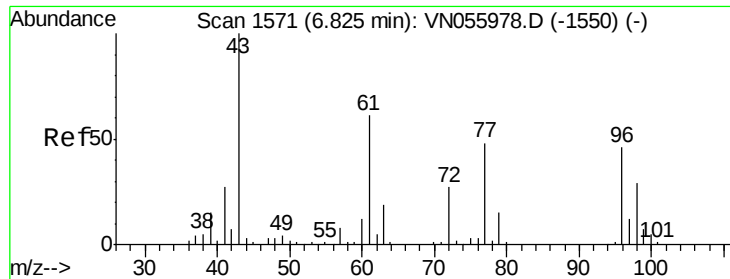


#16

Acetone
 Concen: 0.275 ug/l
 RT: 3.83 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

Tgt Ion: 43 Resp: 399
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 39.8#

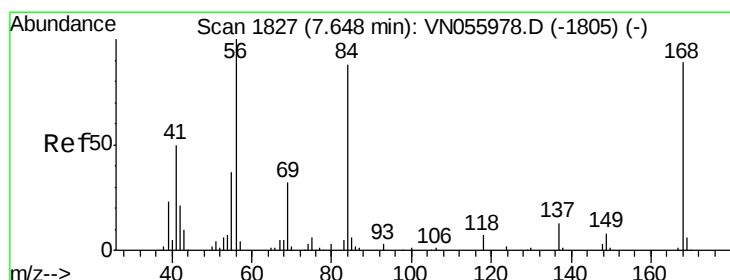
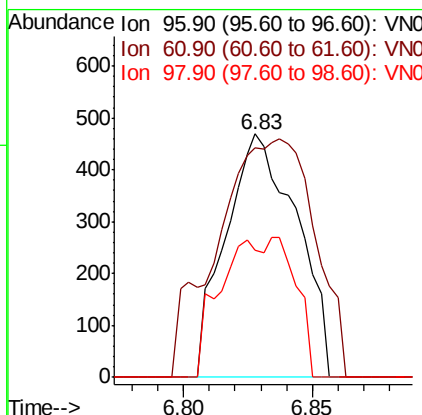
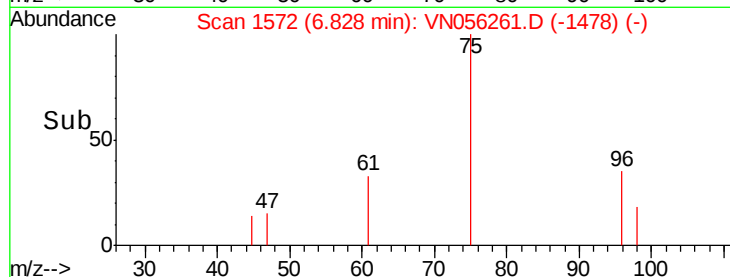
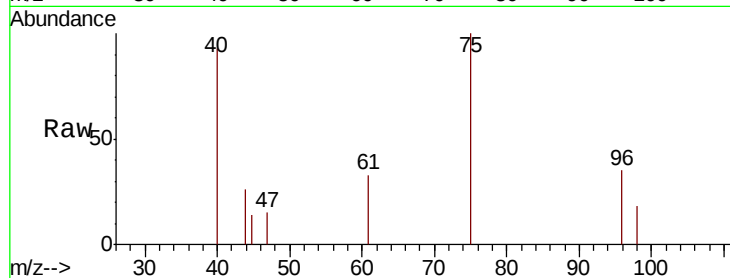




#27
 cis-1,2-Dichloroethene
 Concen: 0.279 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

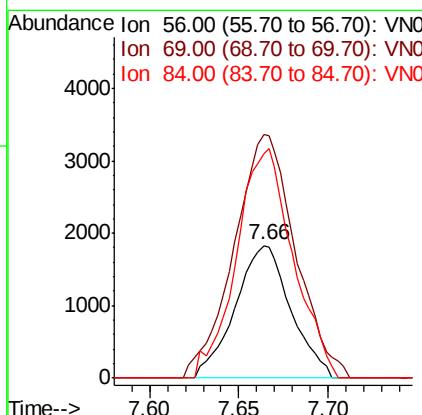
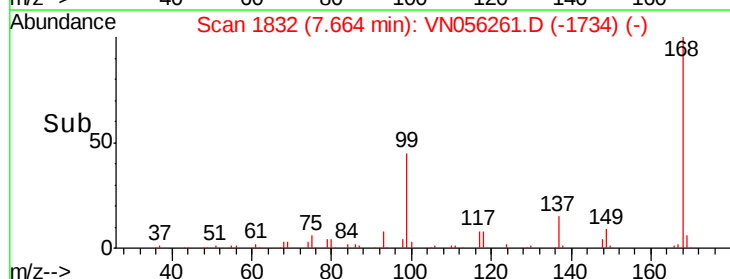
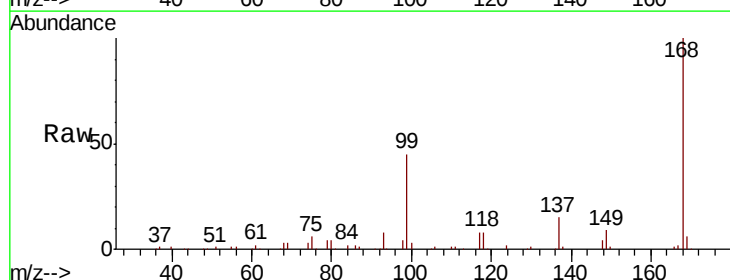
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20190610DL

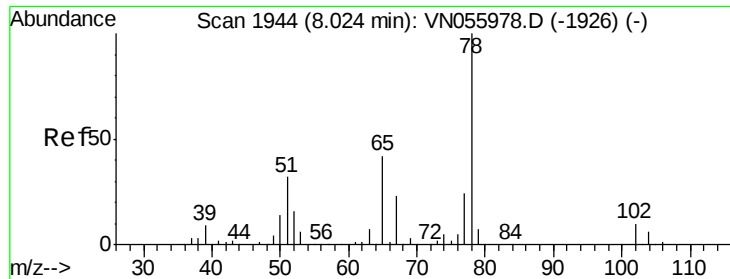
Tot Ion: 96 Resp: 900
 Ion Ratio Lower Upper
 96 100
 61 134.3 0.0 275.8
 98 36.3 0.0 128.4



#31
 Cyclohexane
 Concen: 0.827 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. 0.02 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

Tgt Ion: 56 Resp: 3980
 Ion Ratio Lower Upper
 56 100
 69 174.6 25.6 38.4#
 84 169.3 67.4 101.0#

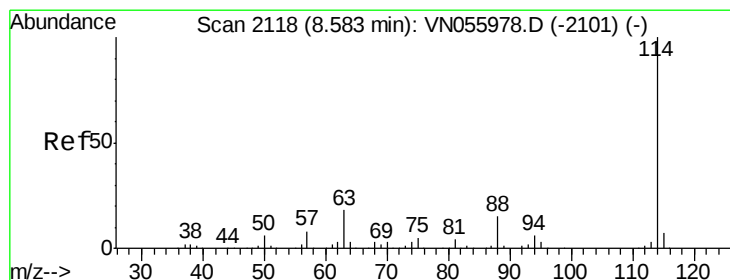
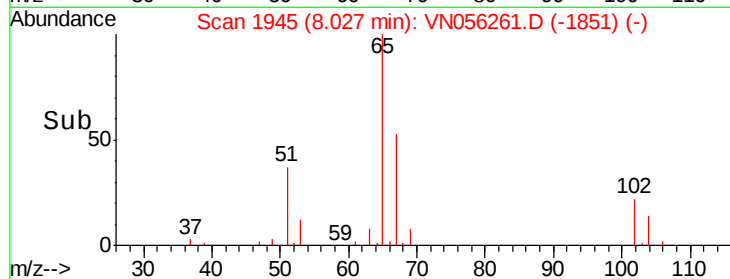
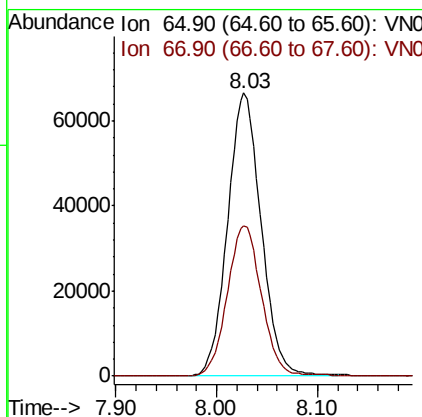
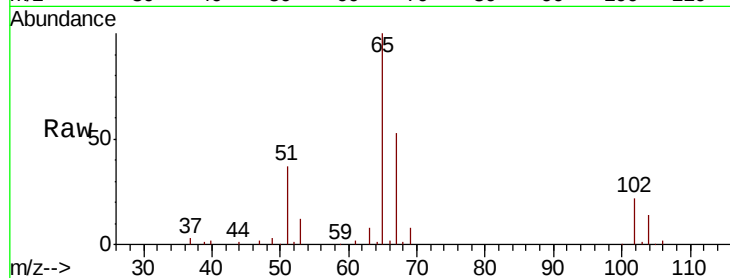




#33
 1,2-Dichloroethane-d4
 Concen: 50.815 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

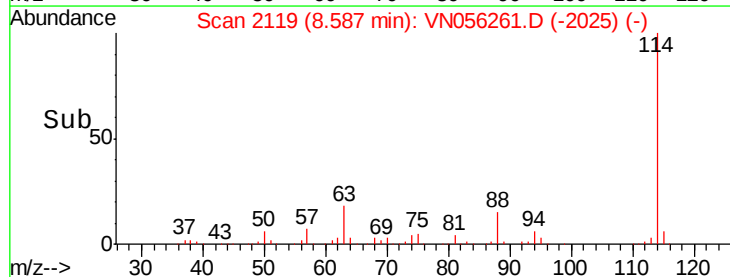
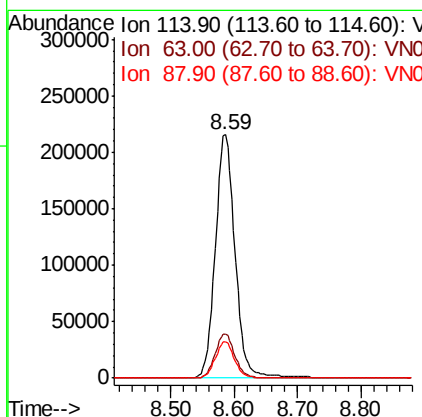
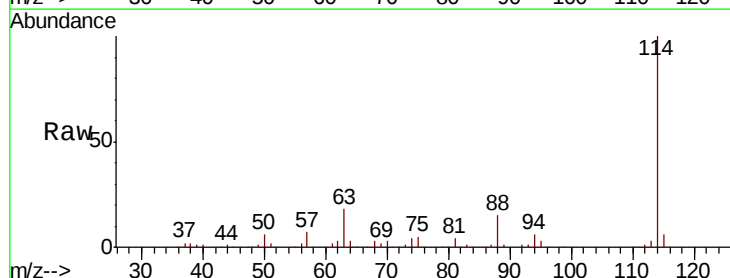
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20190610DL

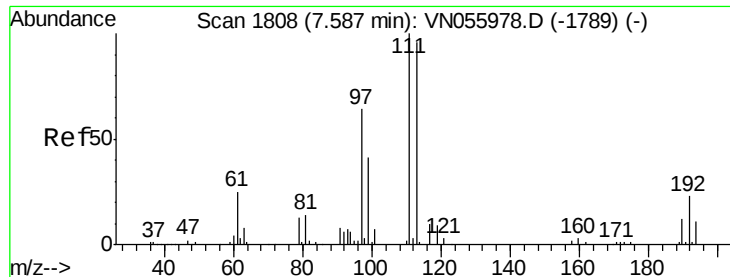
Tot Ion: 65 Resp: 154038
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056261.D
 Acq: 12 Jun 2019 20:12

Tgt Ion: 114 Resp: 465942
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 39.2
 88 14.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 51.151 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20190610DL

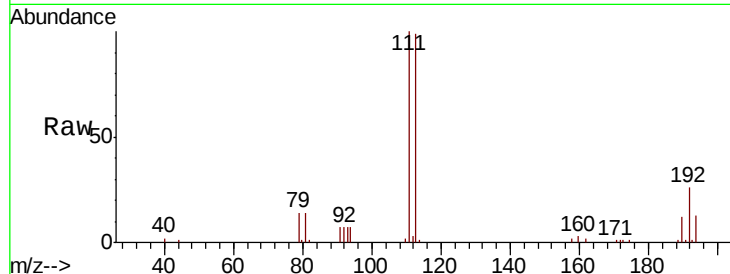
Tot Ion:113 Resp: 146226

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

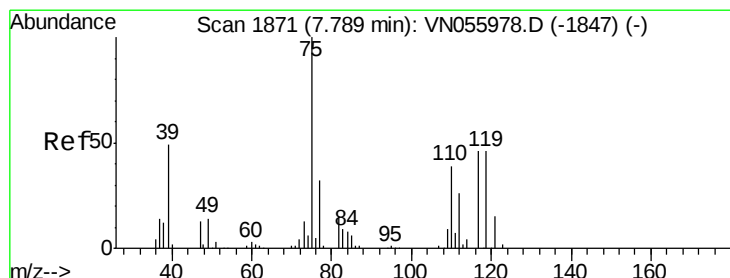
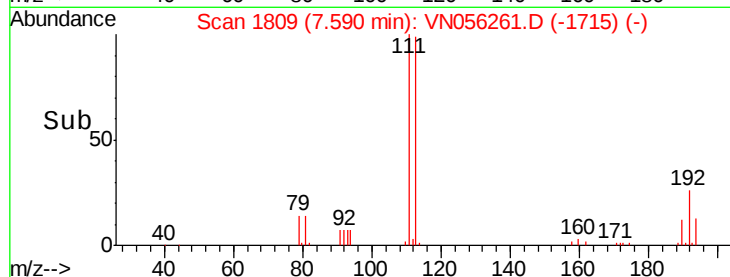
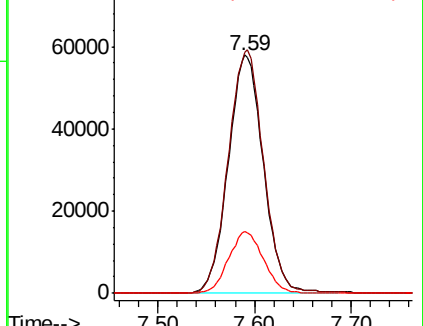
192 25.7 19.5 29.3



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: 4.299 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

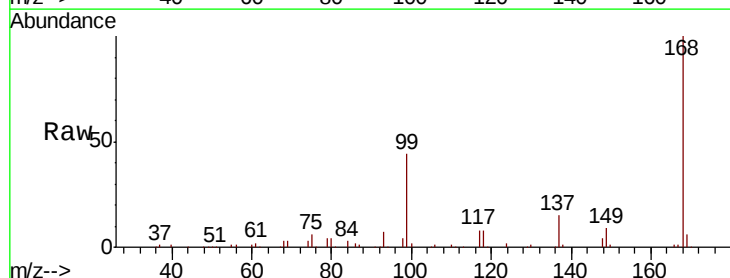
Tgt Ion: 75 Resp: 17223

Ion Ratio Lower Upper

75 100

110 8.9 19.0 57.0#

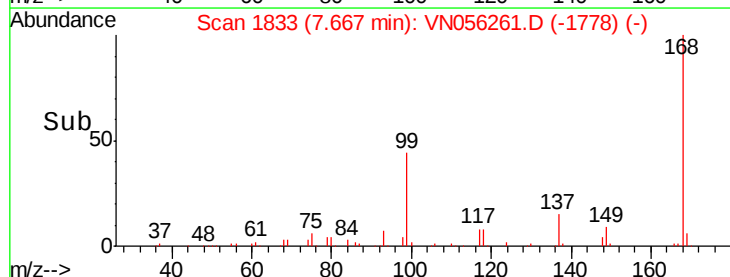
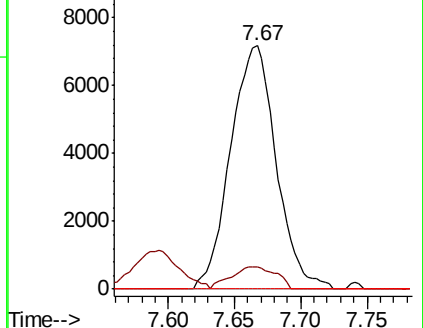
77 0.0 25.1 37.7#

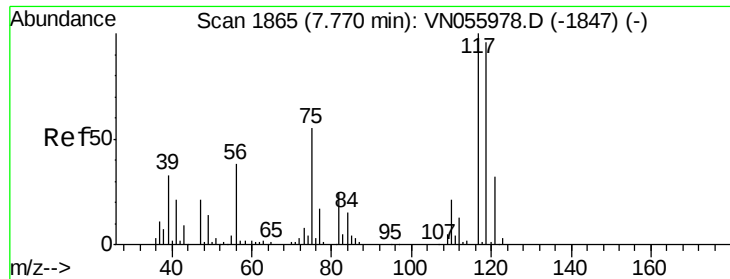


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.594 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

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RE125D3-20190610DL

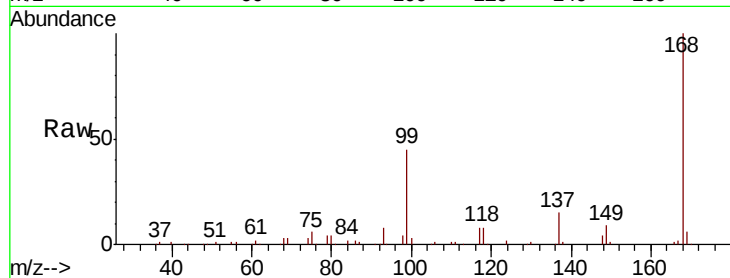
Tot Ion:117 Resp: 24358

Ion Ratio Lower Upper

117 100

119 4.9 79.0 118.6#

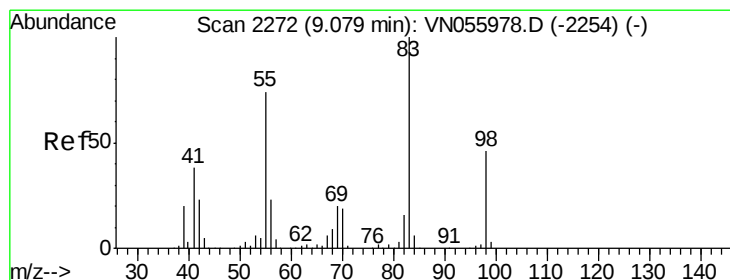
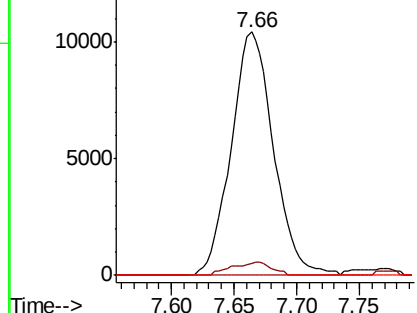
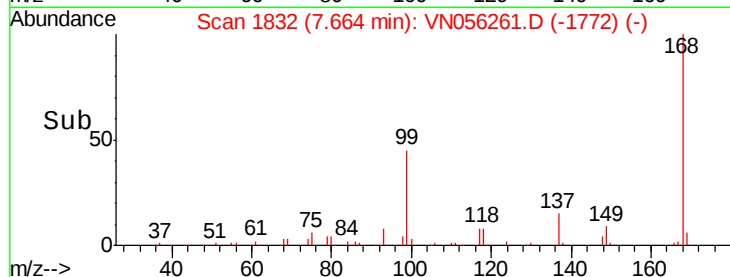
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.203 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

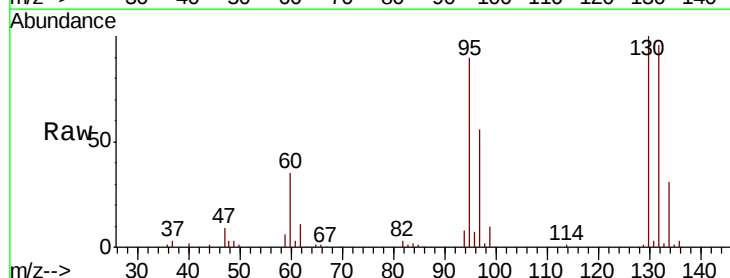
Tgt Ion: 83 Resp: 1015

Ion Ratio Lower Upper

83 100

55 0.0 59.3 88.9#

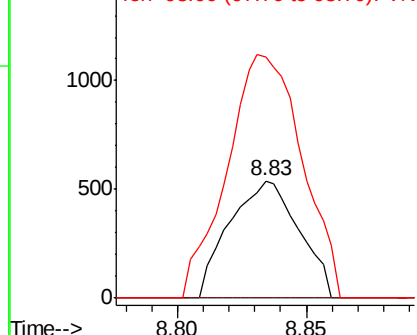
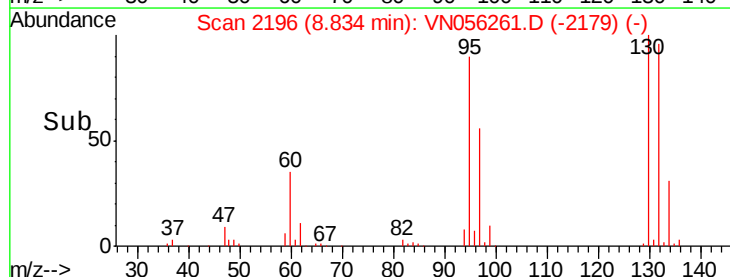
98 205.4 36.6 54.8#

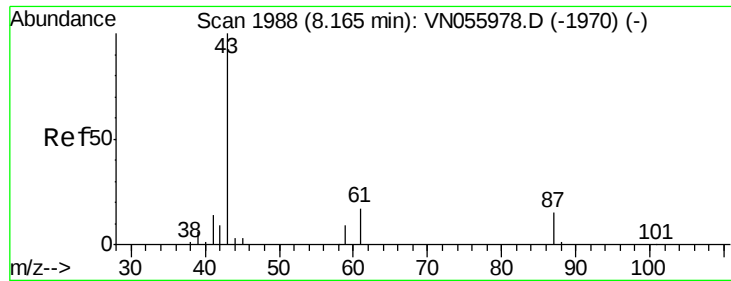


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#43

Isopropyl Acetate

Concen: 0.283 ug/l

RT: 8.35 min Scan# 2045

Delta R.T. 0.18 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

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RE125D3-20190610DL

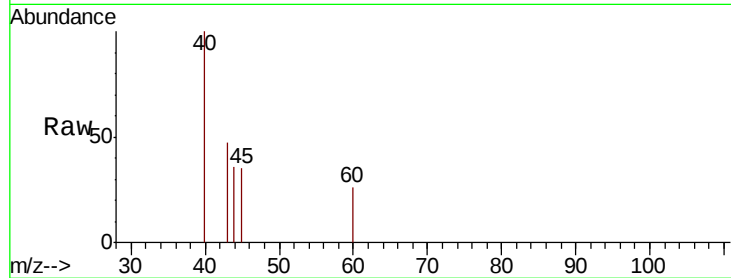
Tot Ion: 43 Resp: 1634

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

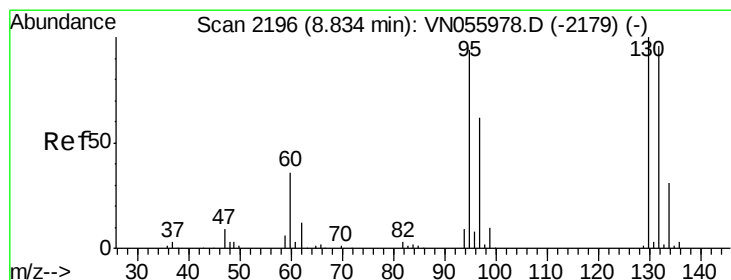
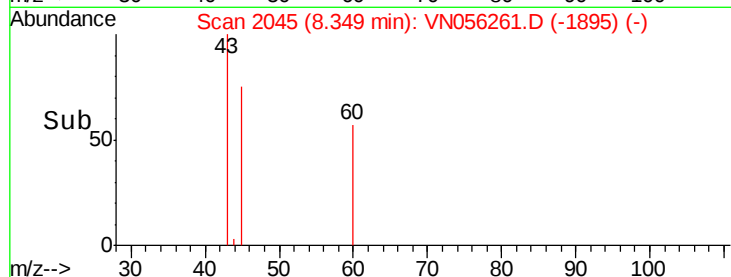
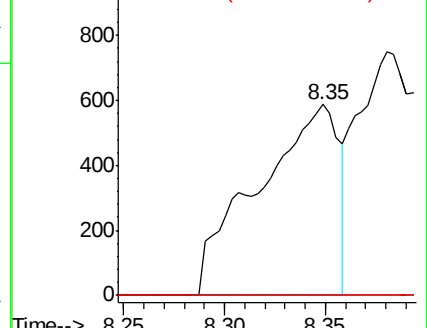
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)



#44

Trichloroethene

Concen: 30.514 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN056261.D

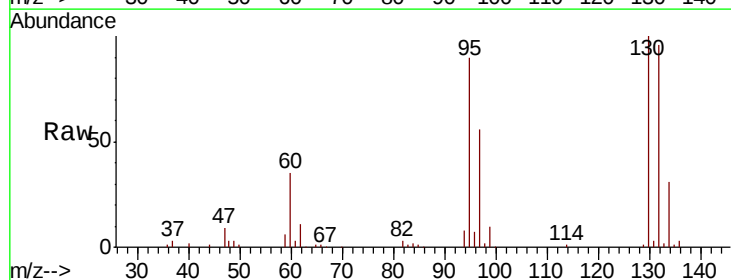
Acq: 12 Jun 2019 20:12

Tgt Ion:130 Resp: 106696

Ion Ratio Lower Upper

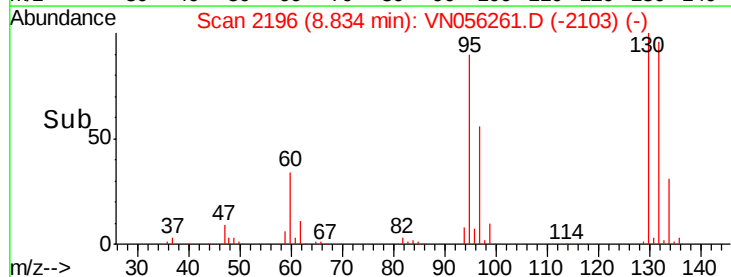
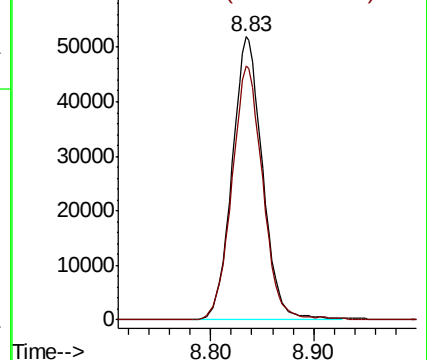
130 100

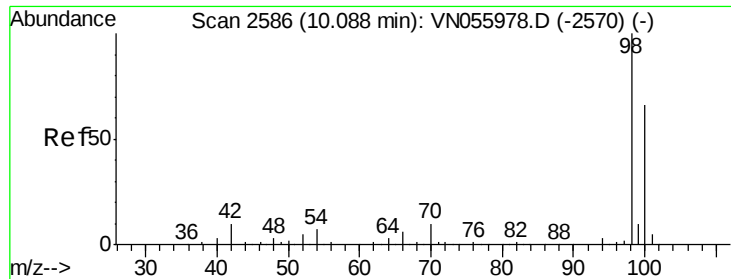
95 89.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)





#50

Toluene-d8

Concen: 51.848 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

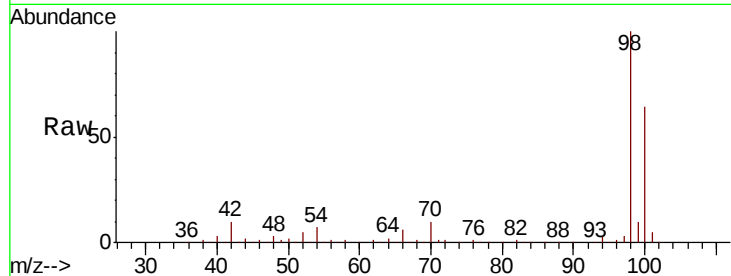
RE125D3-20190610DL

Tot Ion: 98 Resp: 570348

Ion Ratio Lower Upper

98 100

100 63.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

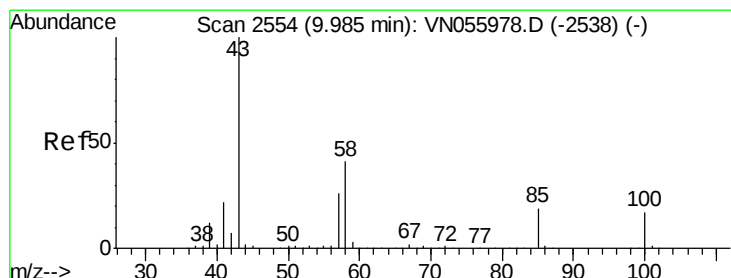
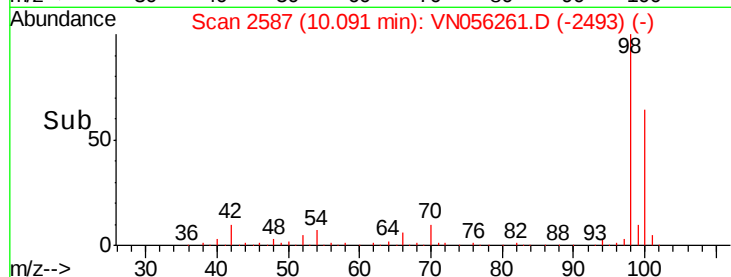
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.627 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.11 min

Lab File: VN056261.D

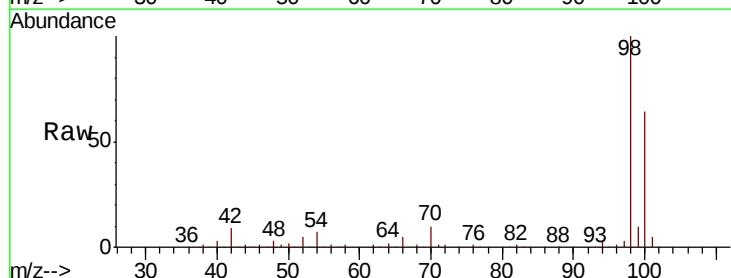
Acq: 12 Jun 2019 20:12

Tgt Ion: 43 Resp: 2264

Ion Ratio Lower Upper

43 100

58 184.7 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

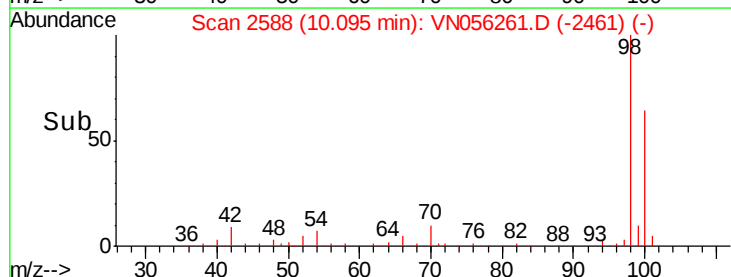
1500

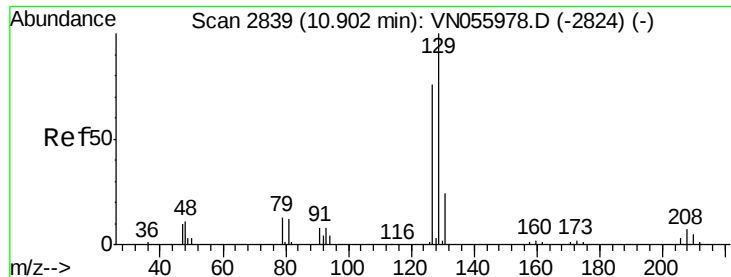
1000

500

0

Time-->

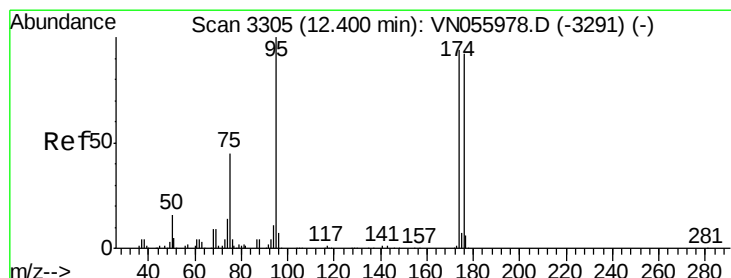
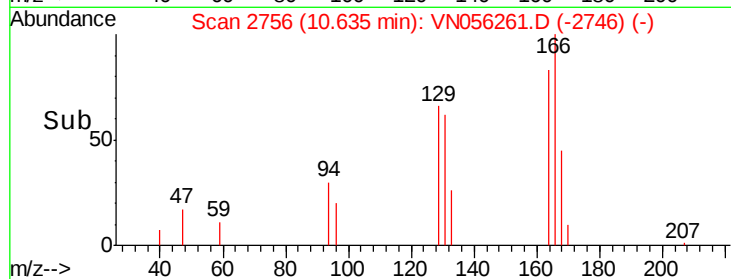
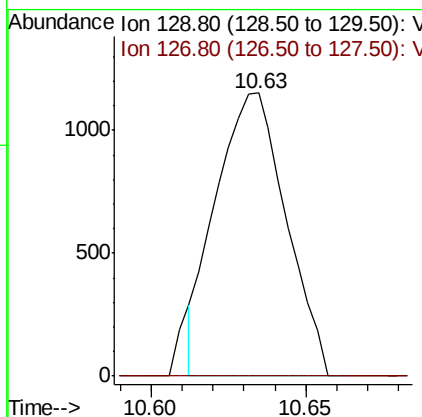
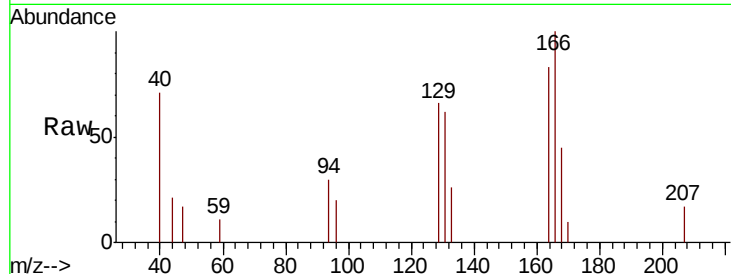




#60
Dibromochloromethane
Concen: 2.974 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

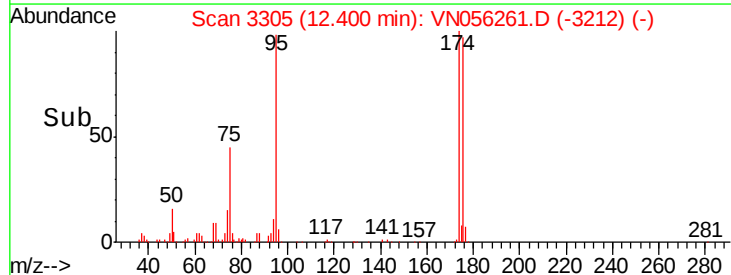
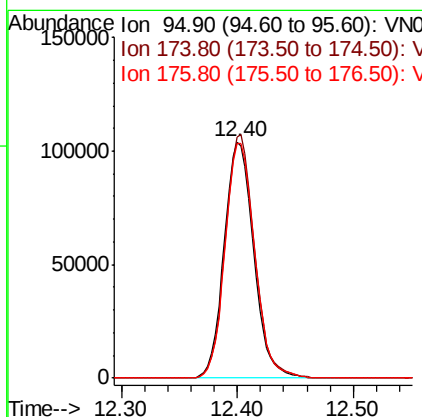
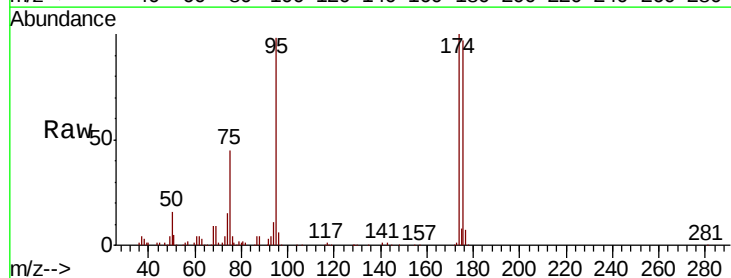
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20190610DL

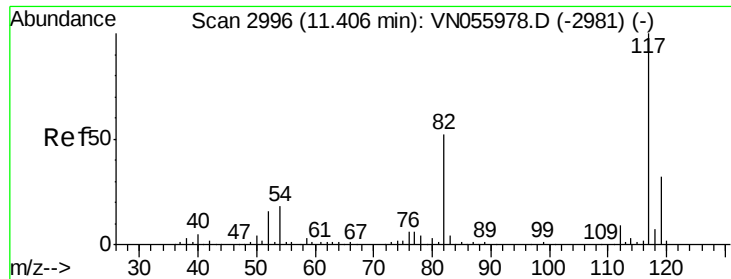
Tot Ion:129 Resp: 1818
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.3#



#62
4-Bromofluorobenzene
Concen: 48.910 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

Tgt Ion: 95 Resp: 182969
Ion Ratio Lower Upper
95 100
174 101.9 0.0 191.0
176 99.7 0.0 185.2

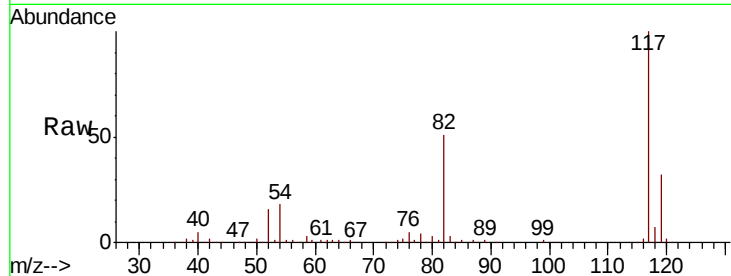




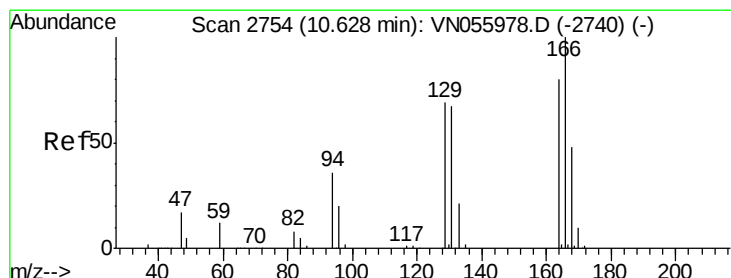
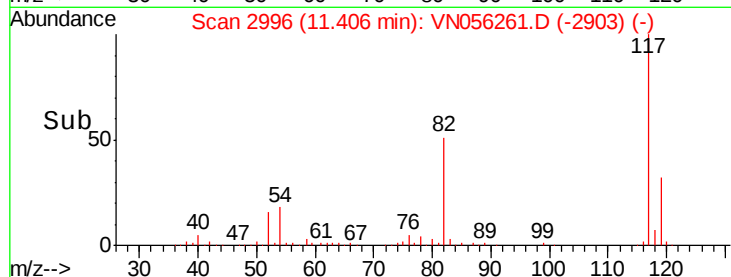
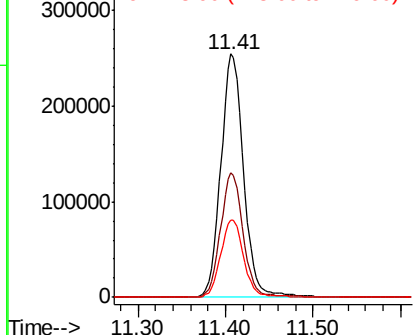
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20190610DL

Tot Ion:117 Resp: 459919
Ion Ratio Lower Upper
117 100
82 51.3 41.8 62.8
119 31.8 25.4 38.0

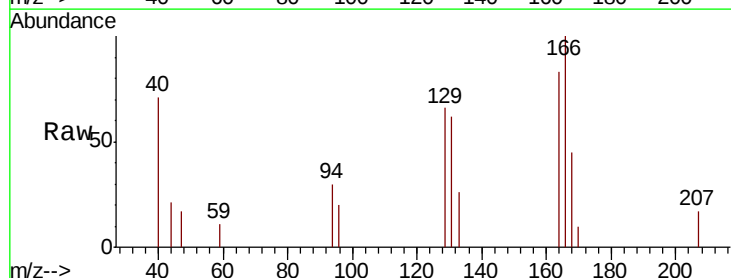


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

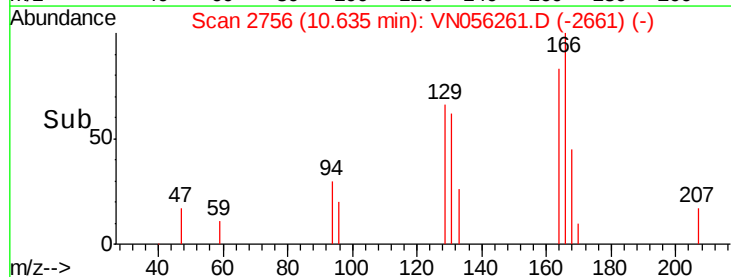
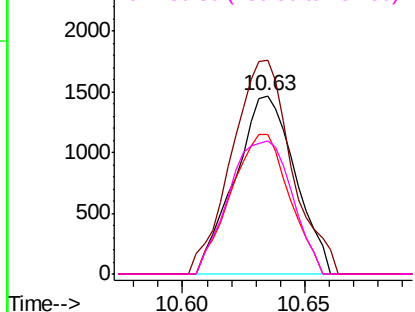


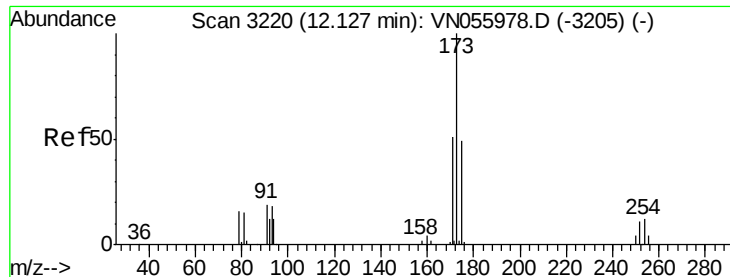
#64
Tetrachloroethene
Concen: 0.627 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.01 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

Tgt Ion:164 Resp: 2498
Ion Ratio Lower Upper
164 100
166 120.0 103.0 154.6
129 78.7 70.6 105.8
131 74.9 68.6 102.8



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

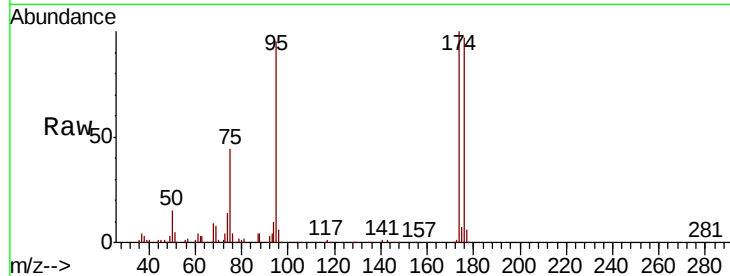




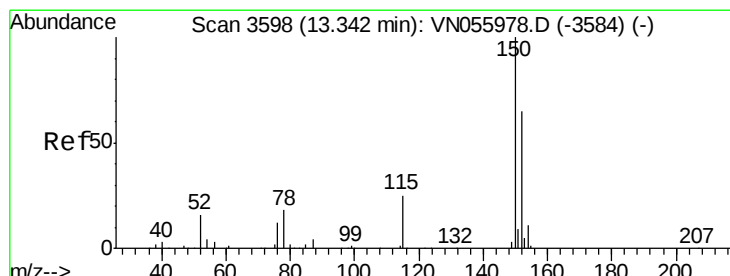
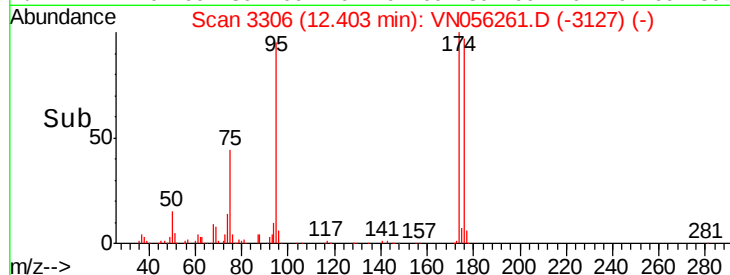
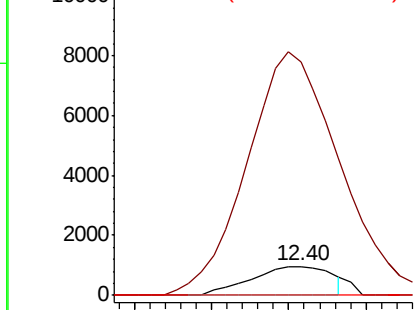
#71
Bromoform
Concen: 3.236 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20190610DL

Tot Ion:173 Resp: 1386
Ion Ratio Lower Upper
173 100
175 840.4 24.3 72.8#
254 0.0 0.0 0.0

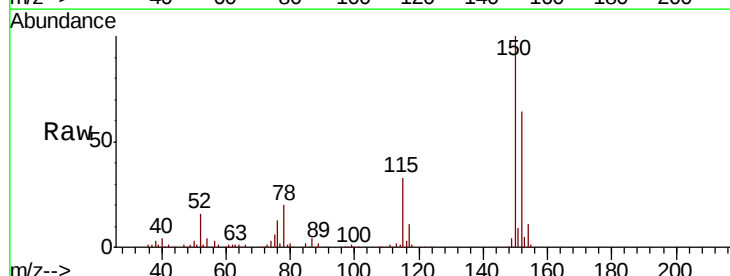


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

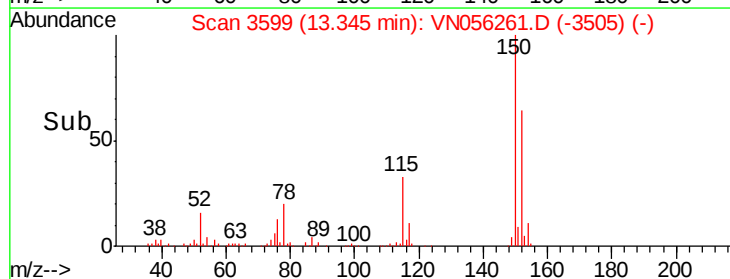
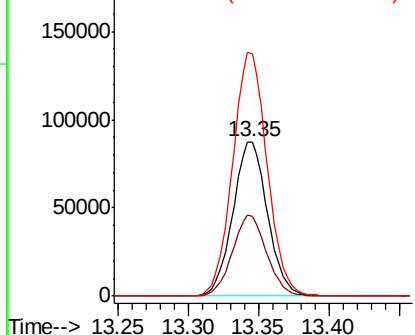


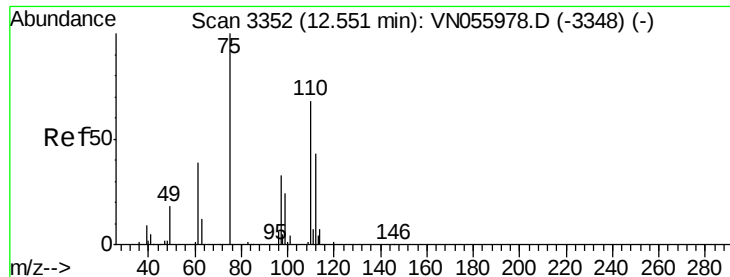
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN056261.D
Acq: 12 Jun 2019 20:12

Tgt Ion:152 Resp: 150369
Ion Ratio Lower Upper
152 100
115 51.8 27.0 81.0
150 157.6 0.0 343.2



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





#76

1,2,3-Trichloropropane

Concen: 30.280 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

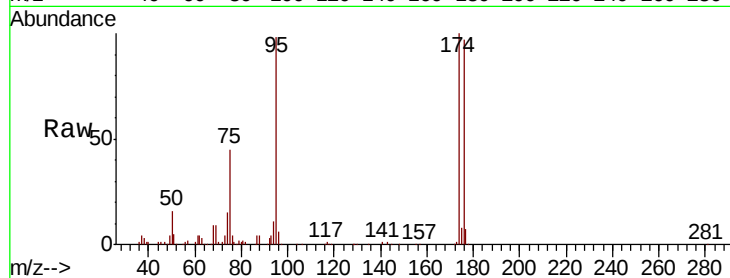
RE125D3-20190610DL

Tot Ion: 75 Resp: 83780

Ion Ratio Lower Upper

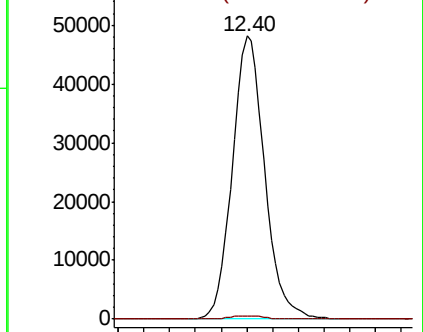
75 100

77 1.1 0.0 0.0#

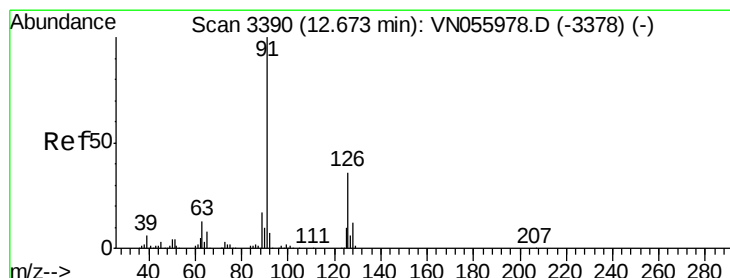
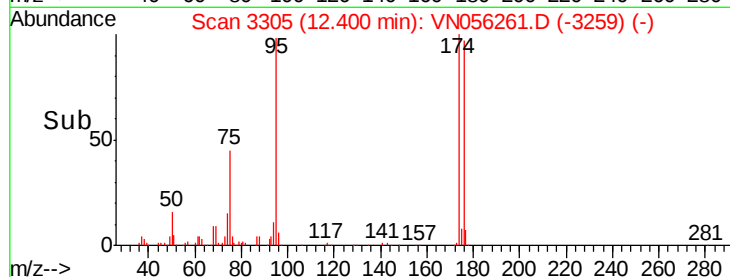


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056261.D

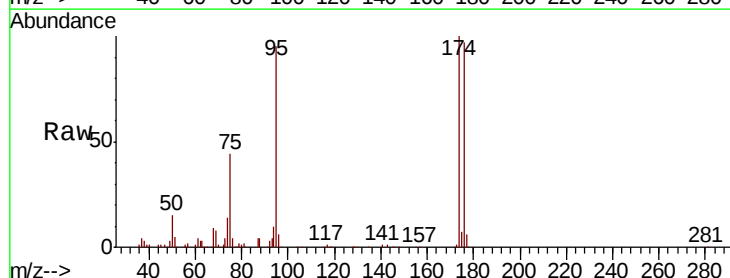
Acq: 12 Jun 2019 20:12

Tgt Ion: 91 Resp: 453

Ion Ratio Lower Upper

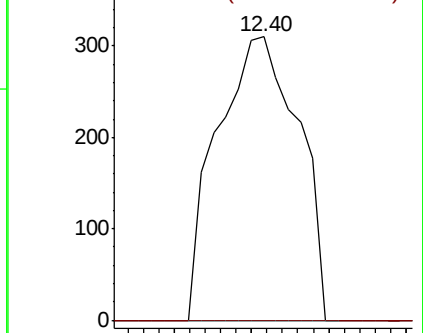
91 100

126 0.0 18.1 54.4#

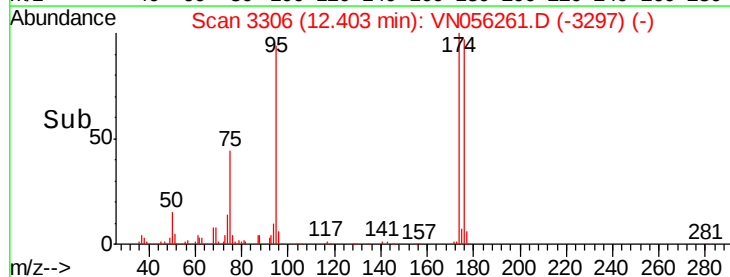


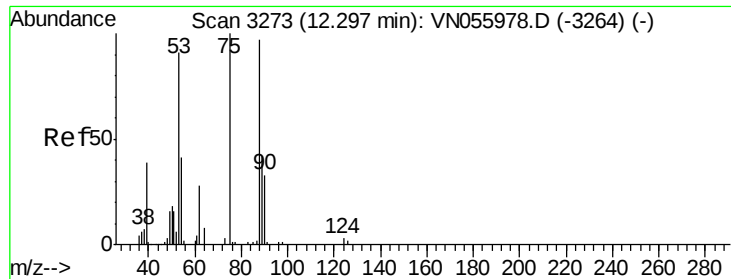
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



Time--> 12.38 12.40 12.42





#81

trans-1,4-Dichloro-2-butene

Concen: 100.838 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056261.D

Acq: 12 Jun 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20190610DL

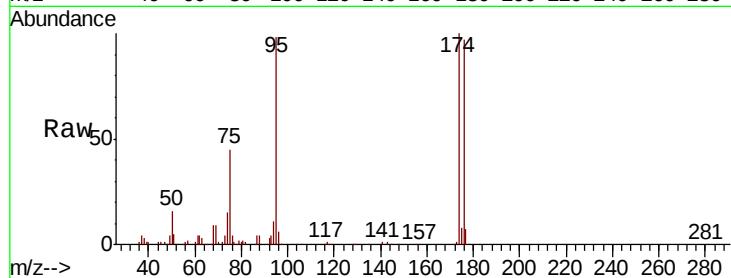
Tot Ion: 75 Resp: 83780

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



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

