

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058809.D
 Acq On : 16 Oct 2019 18:02
 Operator : JC/SP
 Sample : K5396-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 17 01:35:08 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	389396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	616912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	543781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	210241	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	289203	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
35) Dibromofluoromethane	7.57	113	205750	54.00	ug/l	0.00
Spiked Amount			Recovery	=	108.00%	
50) Toluene-d8	10.09	98	775087	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	12.41	95	246533	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	

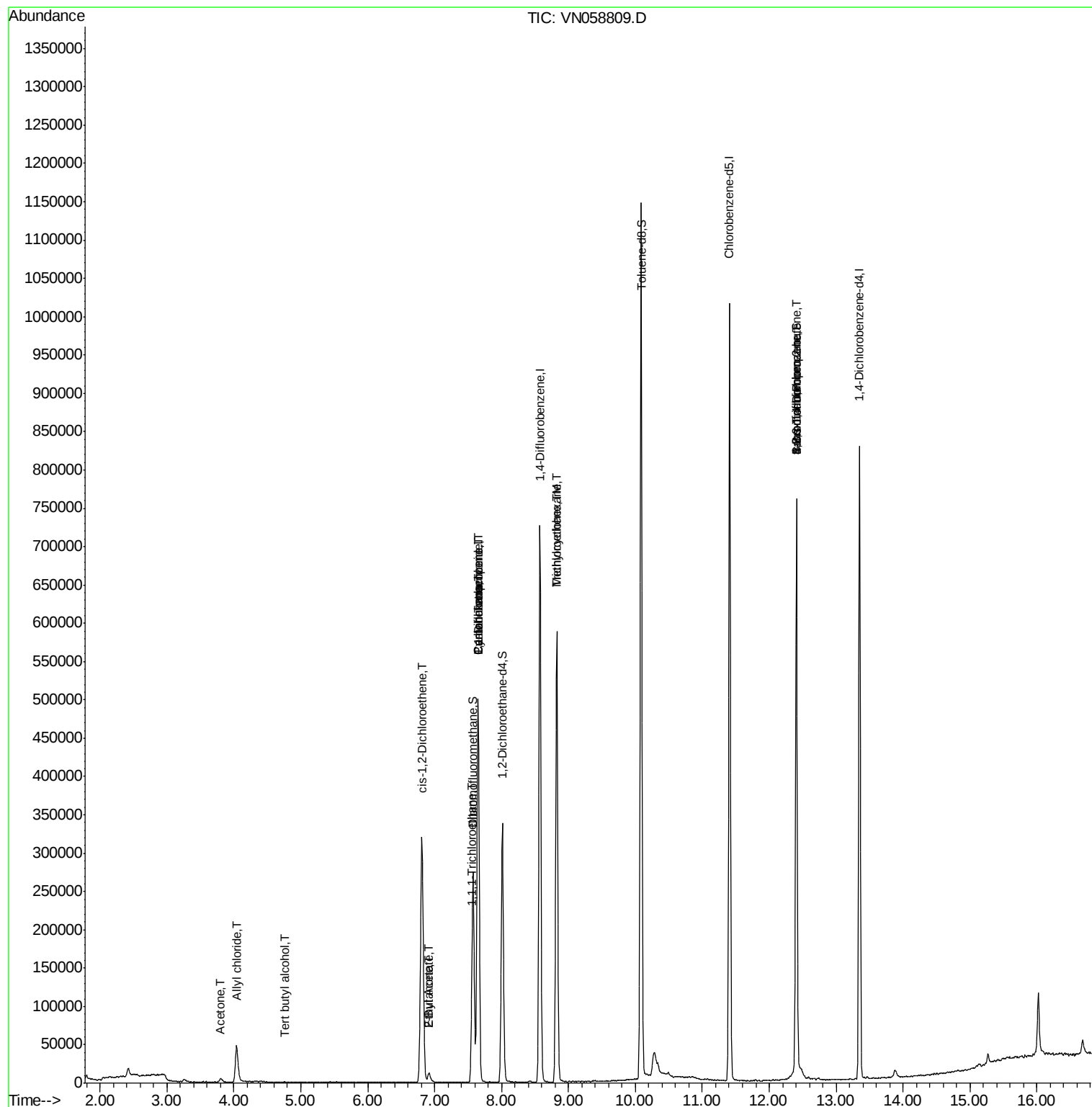
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	529	0.599	ug/l #	72
14) Allyl chloride	4.04	41	7269	0.963	ug/l #	78
16) Acetone	3.80	43	7853	3.480	ug/l	92
25) 2-Butanone	6.92	43	19937	6.112	ug/l #	50
27) cis-1,2-Dichloroethene	6.81	96	204945	42.015	ug/l	88
31) Cyclohexane	7.65	56	9522	1.191	ug/l #	4
32) 1,1,1-Trichloroethane	7.55	97	1473	0.206	ug/l #	31
36) 1,1-Dichloropropene	7.65	75	32531	5.215	ug/l #	50
37) Ethyl Acetate	6.92	43	19937	3.161	ug/l #	79
38) Carbon Tetrachloride	7.65	117	39440	6.488	ug/l #	16
39) Methylcyclohexane	8.82	83	2781	0.384	ug/l #	1
44) Trichloroethene	8.82	130	207063	46.546	ug/l	98
71) Bromoform	12.41	173	1189	0.397	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	135982	29.483	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	135982	78.976	ug/l #	11

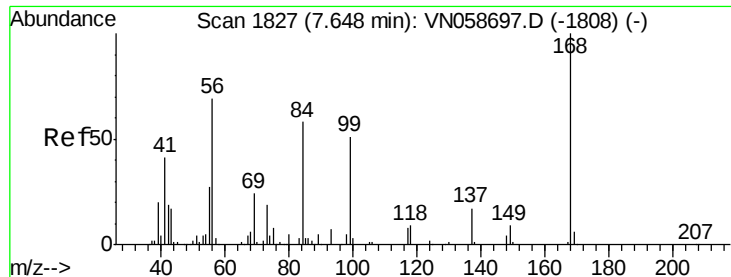
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

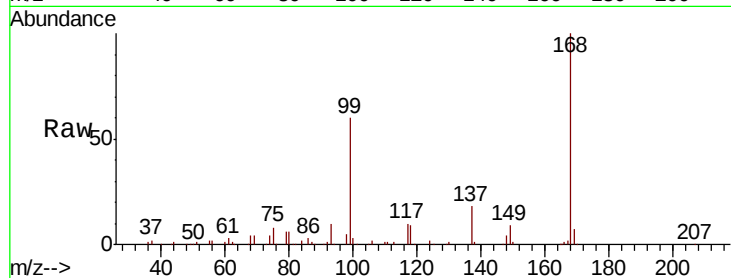
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 389396

Ion Ratio Lower Upper

168 100

99 59.7 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

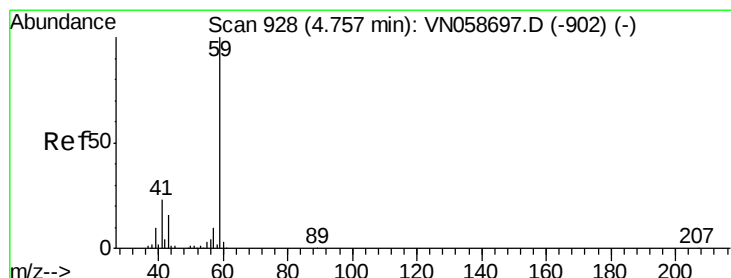
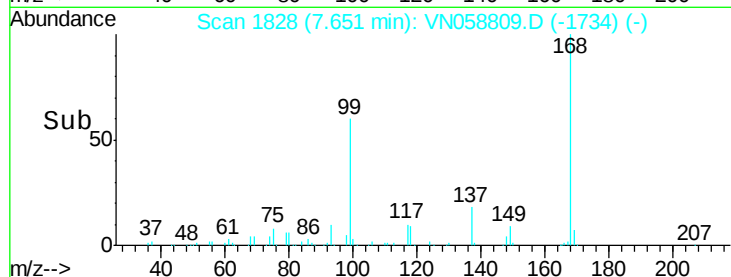
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.599 ug/l

RT: 4.77 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN058809.D

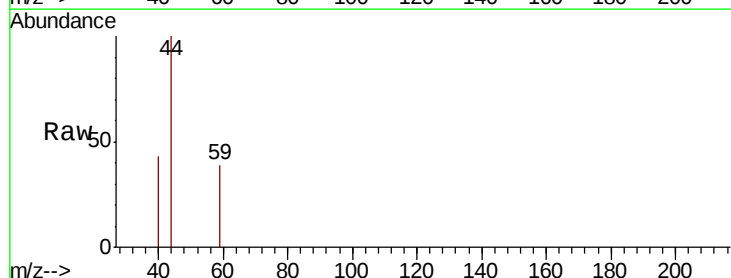
Acq: 16 Oct 2019 18:02

Tgt Ion: 59 Resp: 529

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.77

300

250

200

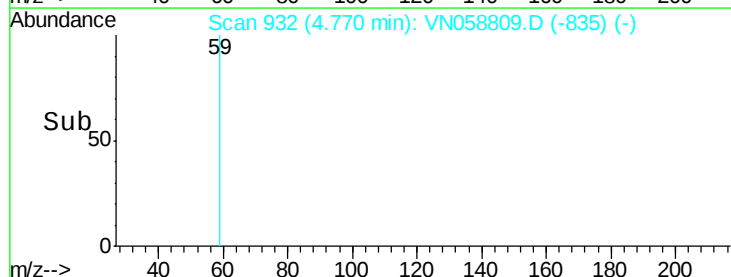
150

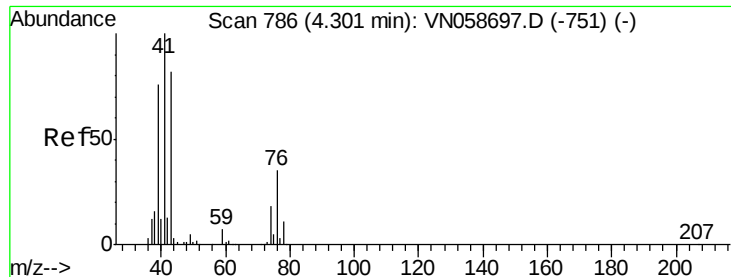
100

50

0

Time-->





#14

Allv1 chloride

Concen: 0.963 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.26 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :

MSVOA_N

ClientSampleId :

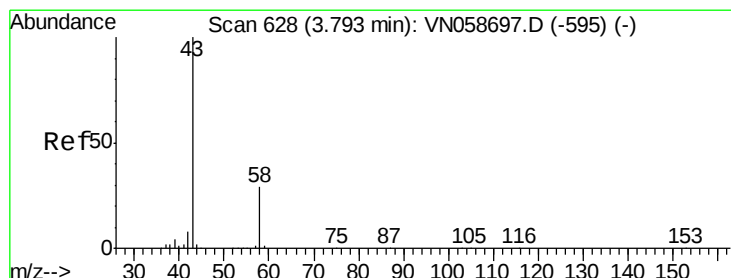
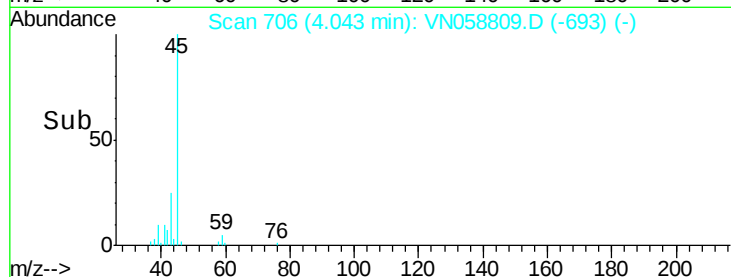
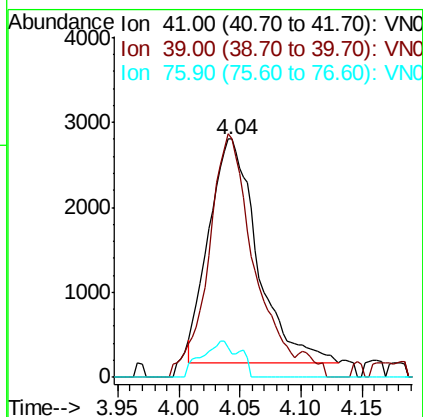
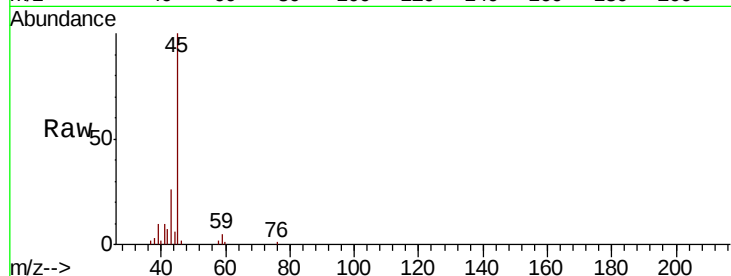
Tot Ion: 41 Resp: 7269

Ion Ratio Lower Upper

41 100

39 80.7 57.2 85.8

76 5.0 25.0 37.6#



#16

Acetone

Concen: 3.480 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058809.D

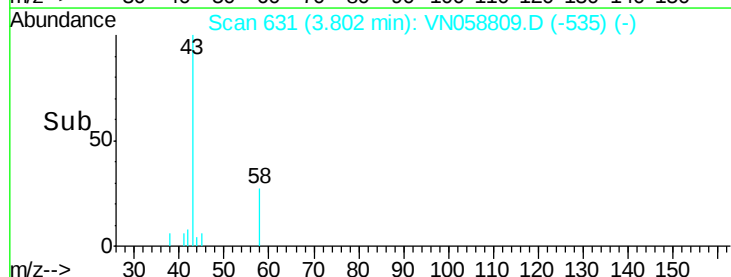
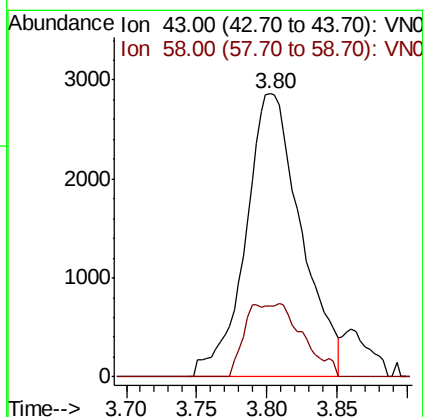
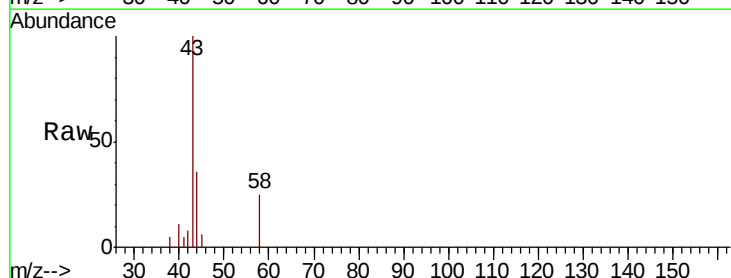
Acq: 16 Oct 2019 18:02

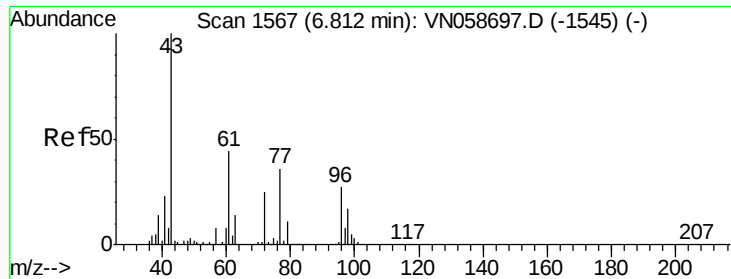
Tgt Ion: 43 Resp: 7853

Ion Ratio Lower Upper

43 100

58 24.9 23.3 34.9





#25

2-Butanone

Concen: 6.112 ug/l

RT: 6.92 min Scan# 1600

Delta R.T. 0.11 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :

MSVOA_N

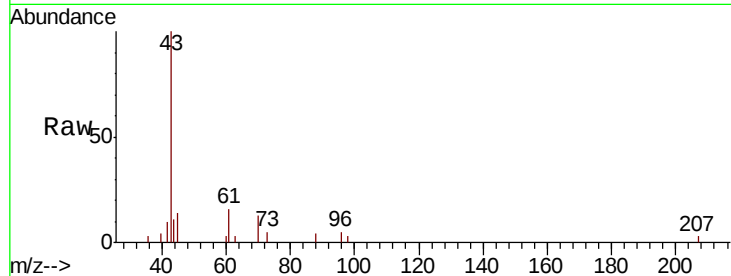
ClientSampleId :

Tot Ion: 43 Resp: 19937

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.92

8000

6000

4000

2000

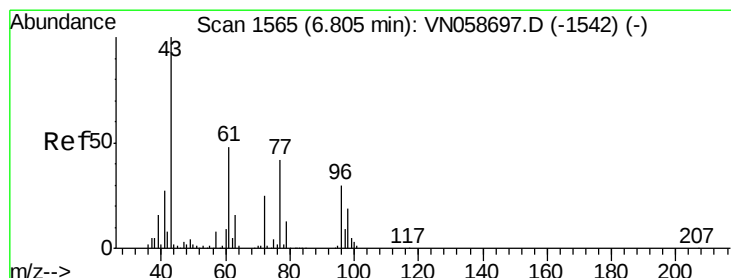
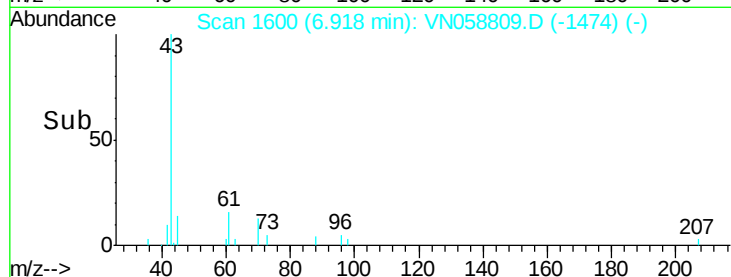
0

Time-->

6.80

6.90

7.00



#27

cis-1,2-Dichloroethene

Concen: 42.015 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

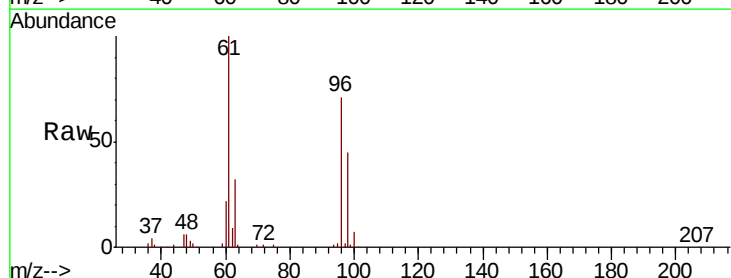
Tgt Ion: 96 Resp: 204945

Ion Ratio Lower Upper

96 100

61 140.0 0.0 324.8

98 64.4 0.0 129.2



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

100000

50000

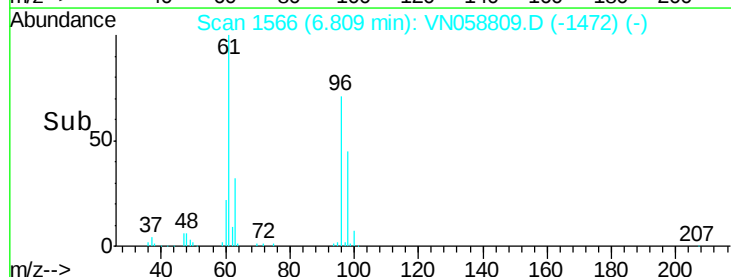
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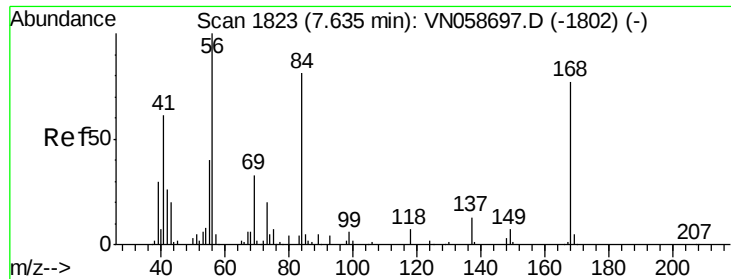
Time-->

6.70

6.80

6.90

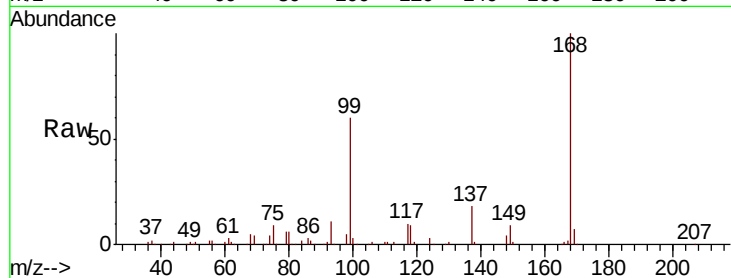




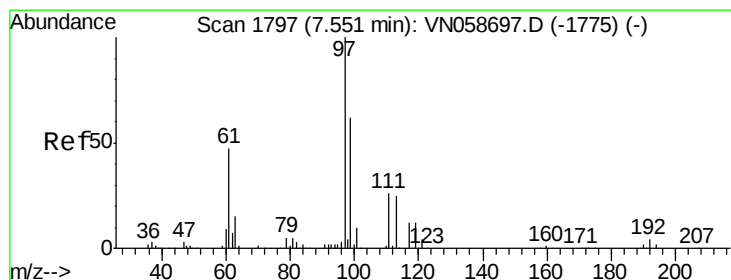
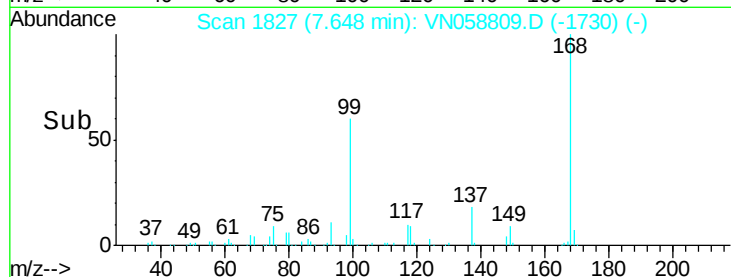
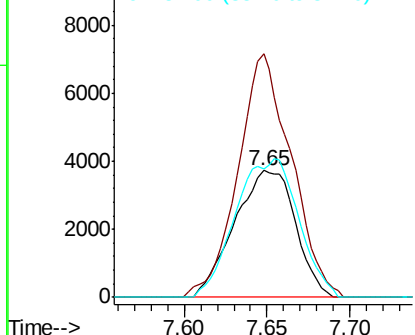
#31
Cyclohexane
Concen: 1.191 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9522
Ion Ratio Lower Upper
56 100
69 187.6 26.2 39.4#
84 101.6 64.9 97.3#

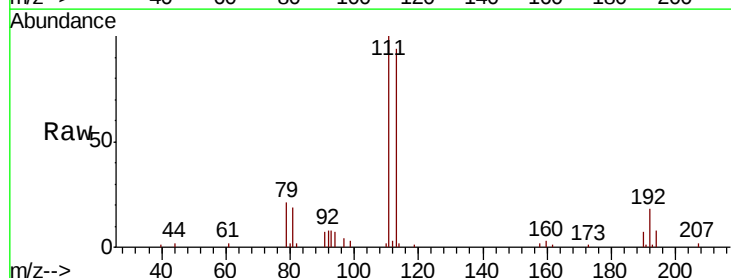


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

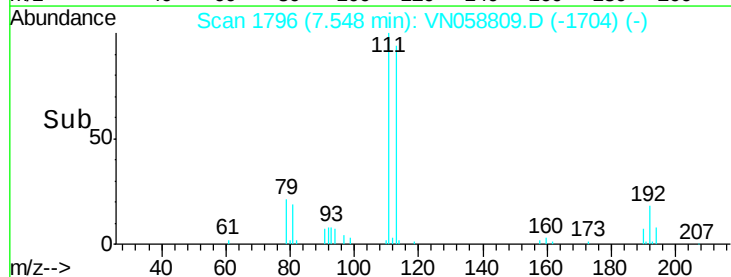
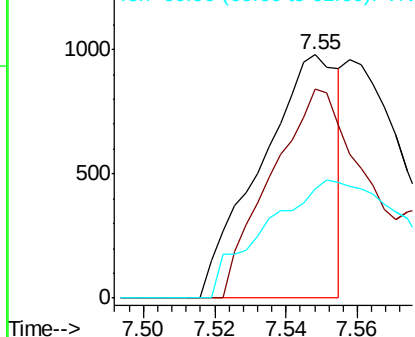


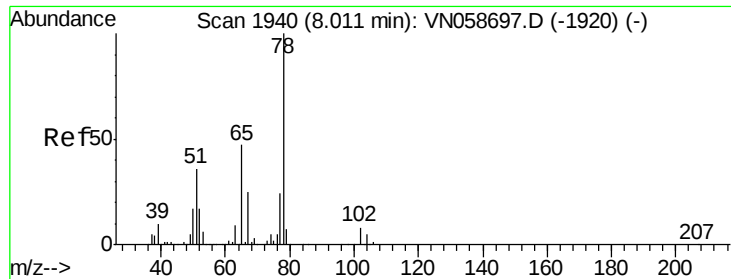
#32
1,1,1-Trichloroethane
Concen: 0.206 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Tgt Ion: 97 Resp: 1473
Ion Ratio Lower Upper
97 100
99 0.0 50.8 76.2#
61 83.3 38.1 57.1#



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

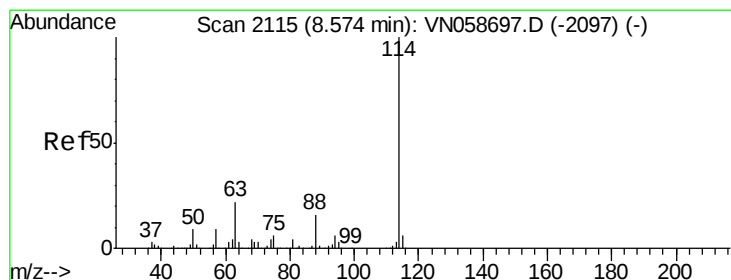
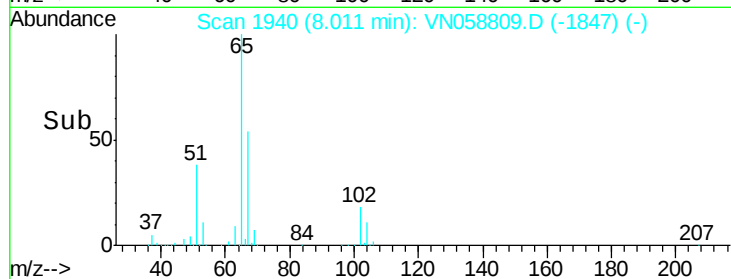
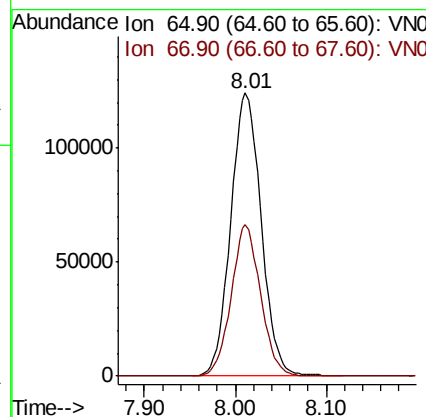
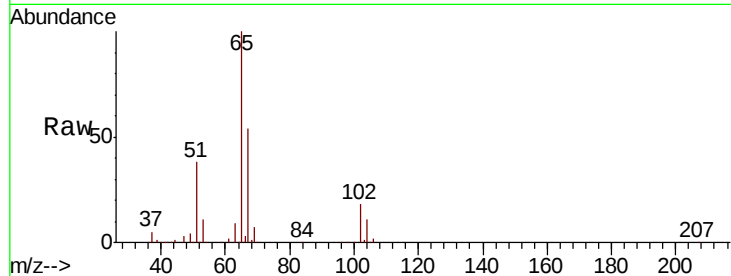




#33
 1,2-Dichloroethane-d4
 Concen: 53.050 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058809.D
 Acq: 16 Oct 2019 18:02

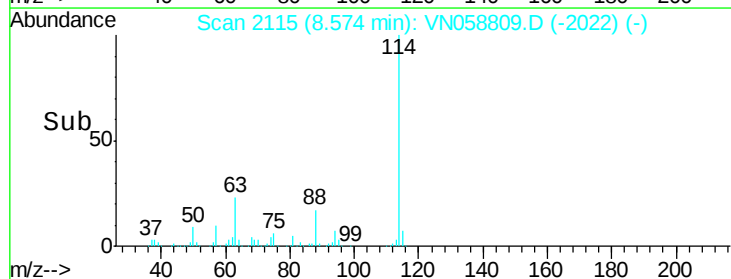
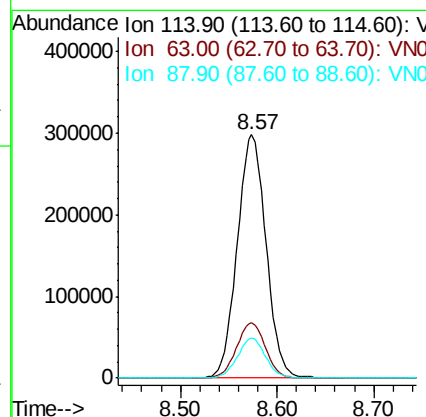
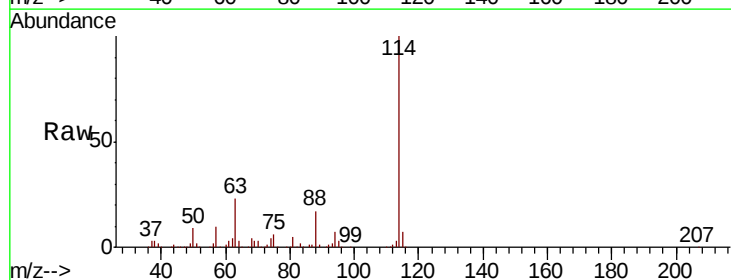
Instrument :
 MSVOA_N
 ClientSampled :

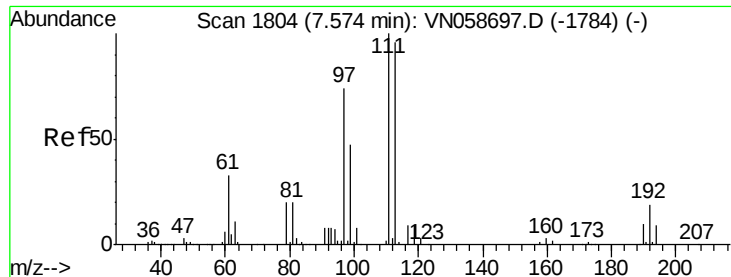
Tot Ion: 65 Resp: 289203
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058809.D
 Acq: 16 Oct 2019 18:02

Tgt Ion: 114 Resp: 616912
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.8
 88 16.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 53.995 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :
MSVOA_N
ClientSampleId :

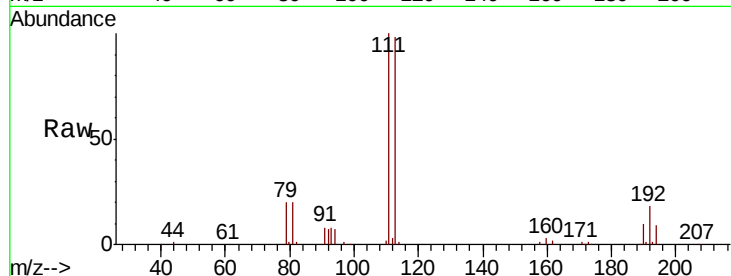
Tot Ion:113 Resp: 205750

Ion Ratio Lower Upper

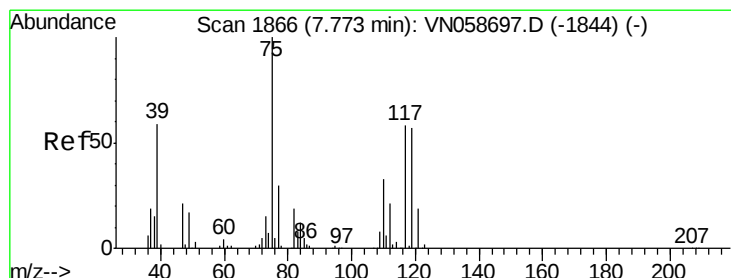
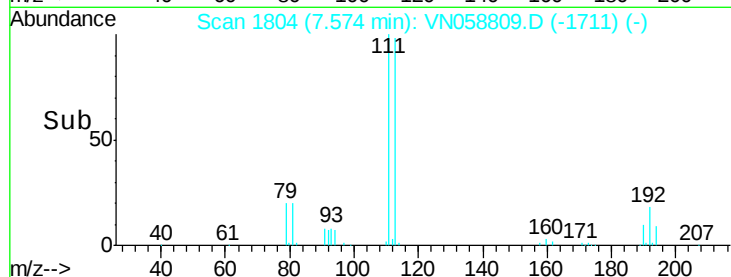
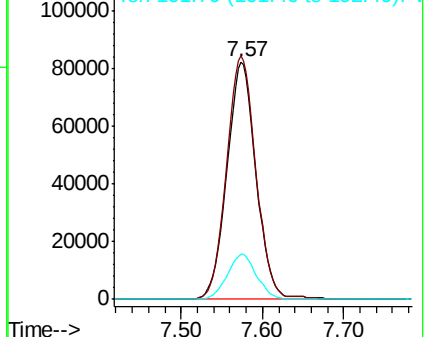
113 100

111 102.9 82.3 123.5

192 19.0 15.0 22.6



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: 5.215 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

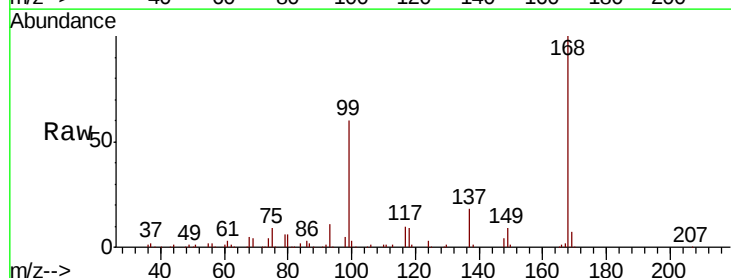
Tgt Ion: 75 Resp: 32531

Ion Ratio Lower Upper

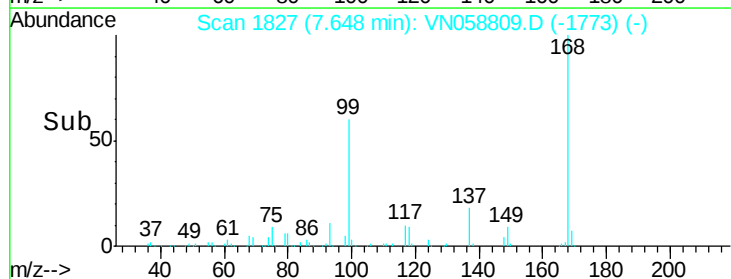
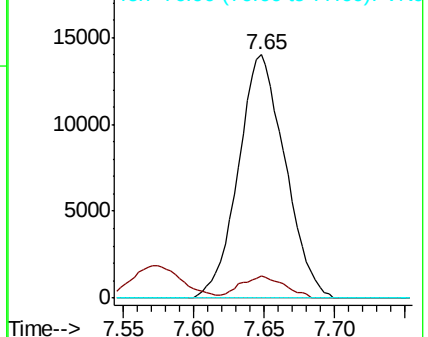
75 100

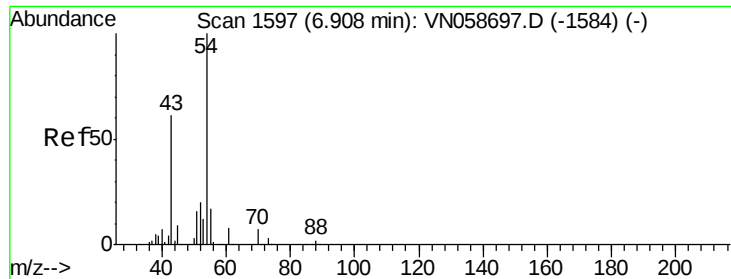
110 8.4 16.6 49.8#

77 0.0 24.6 37.0#



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

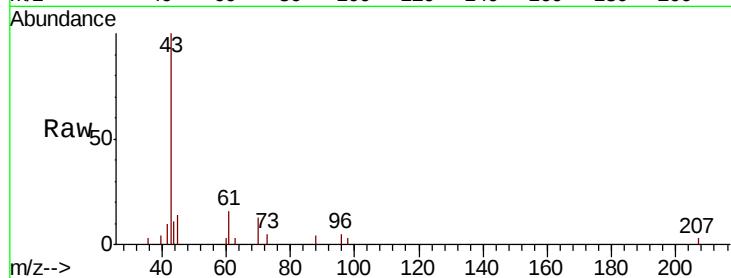




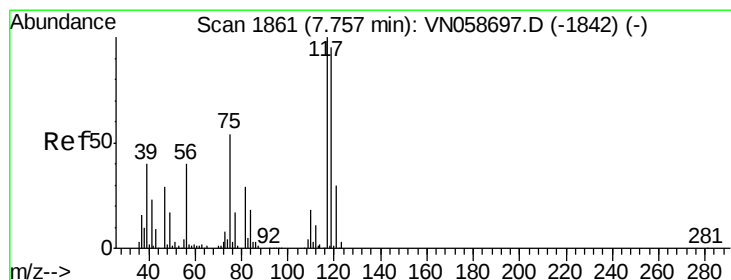
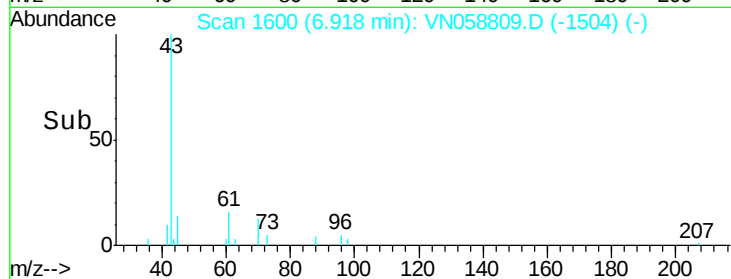
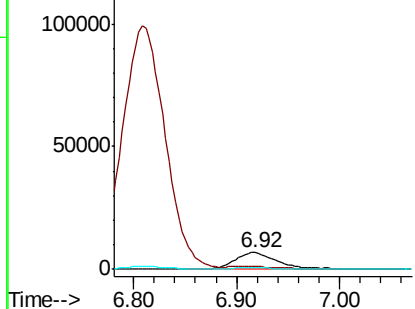
#37
Ethyl Acetate
Concen: 3.161 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 19937
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 9.3 7.2 10.8

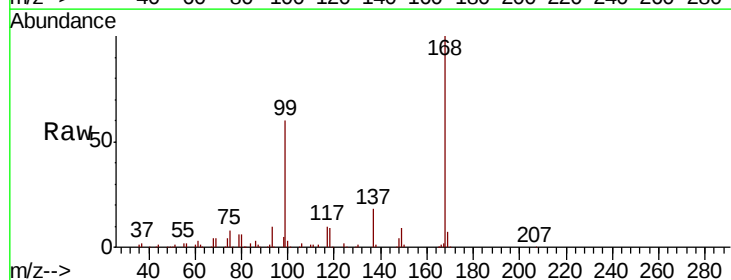


Abundance Ion 43.00 (42.70 to 43.70): VN058809.D (-1504) (-)
Ion 60.90 (60.60 to 61.60): VN058809.D (-1504) (-)
Ion 70.00 (69.70 to 70.70): VN058809.D (-1504) (-)

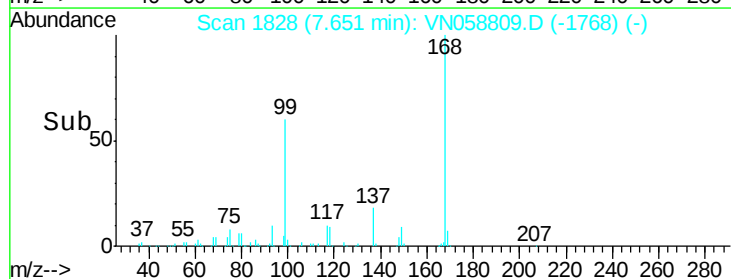
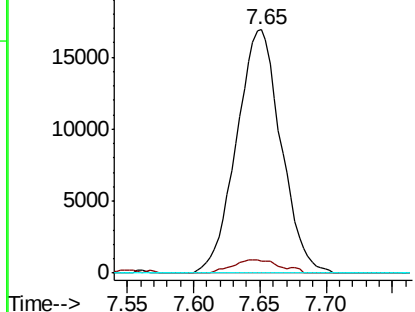


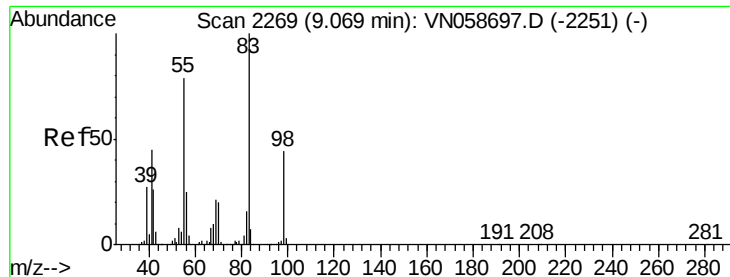
#38
Carbon Tetrachloride
Concen: 6.488 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Tgt Ion: 117 Resp: 39440
Ion Ratio Lower Upper
117 100
119 4.8 75.7 113.5#
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN058809.D (-1768) (-)
Ion 118.80 (118.50 to 119.50): VN058809.D (-1768) (-)
Ion 120.80 (120.50 to 121.50): VN058809.D (-1768) (-)

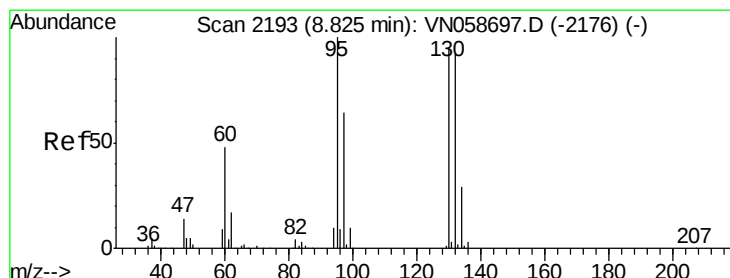
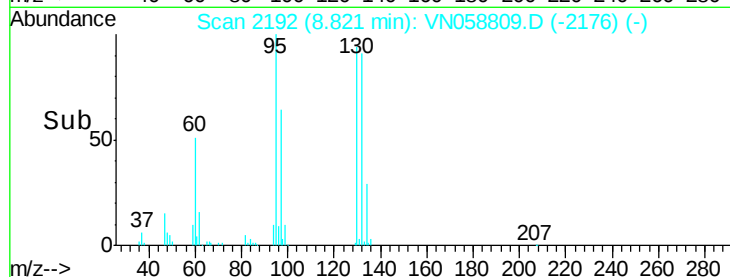
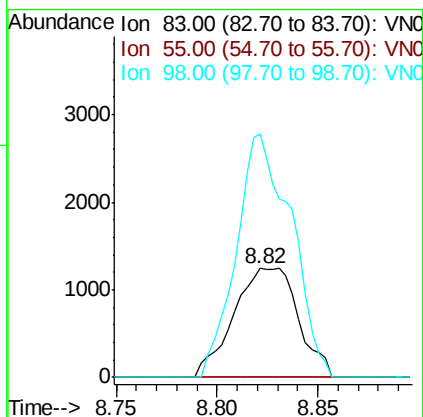
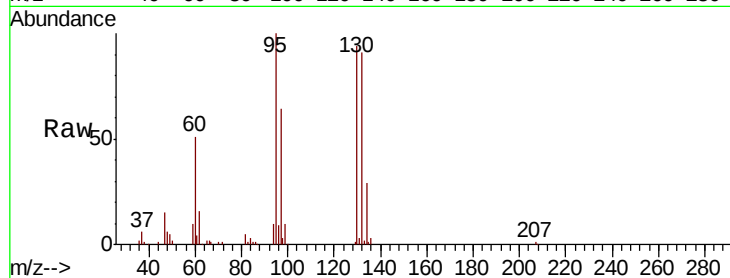




#39
Methvlcvclohexane
Concen: 0.384 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. -0.25 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

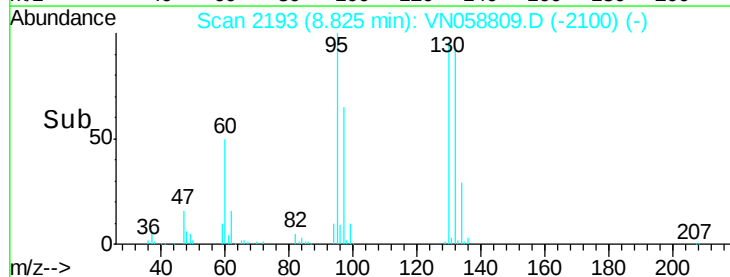
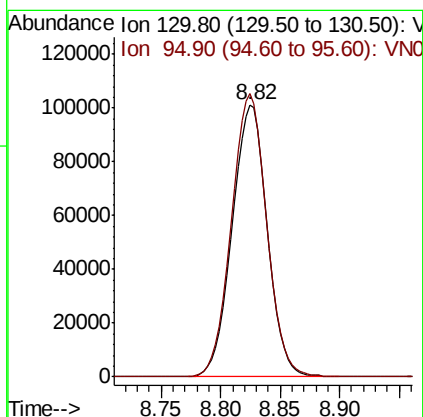
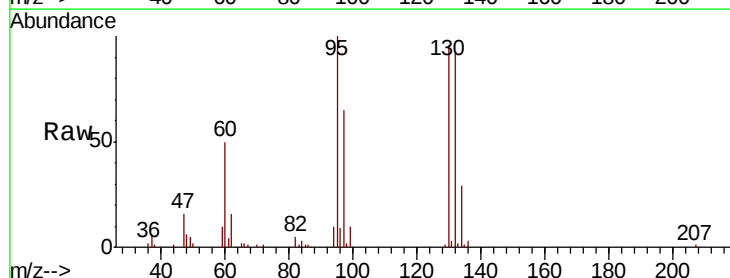
Instrument :
MSVOA_N
ClientSampleId :

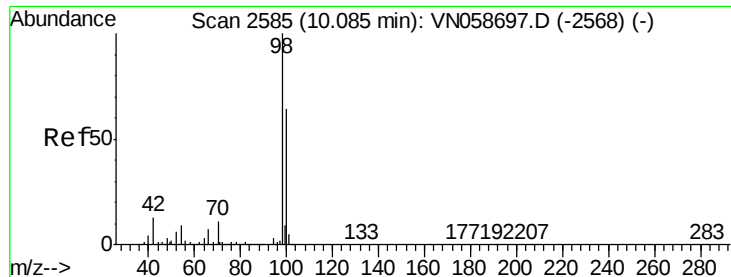
Tot Ion: 83 Resp: 2781
Ion Ratio Lower Upper
83 100
55 0.0 63.4 95.0#
98 223.0 35.1 52.7#



#44
Trichloroethene
Concen: 46.546 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Tgt Ion:130 Resp: 207063
Ion Ratio Lower Upper
130 100
95 104.0 0.0 211.2





#50

Toluene-d8

Concen: 50.866 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :

MSVOA_N

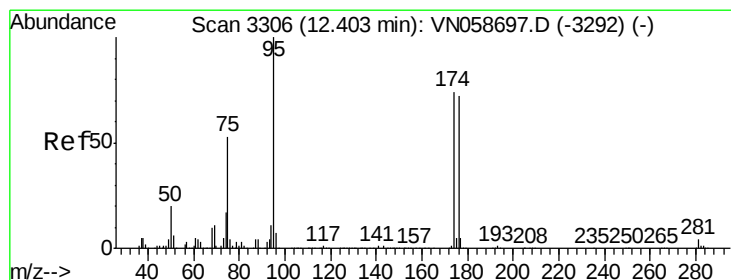
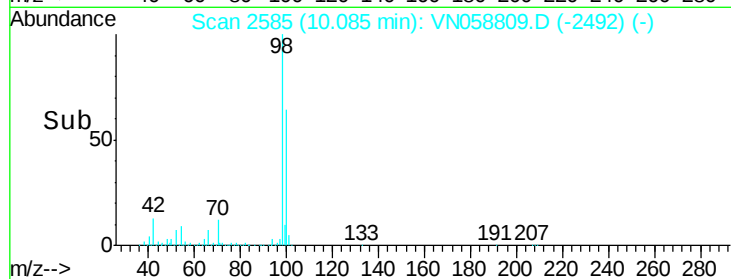
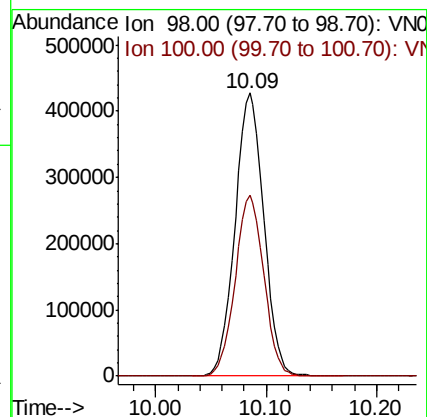
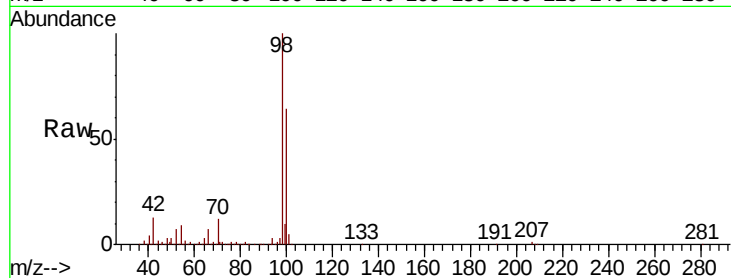
ClientSampled :

Tot Ion: 98 Resp: 775087

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 42.742 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

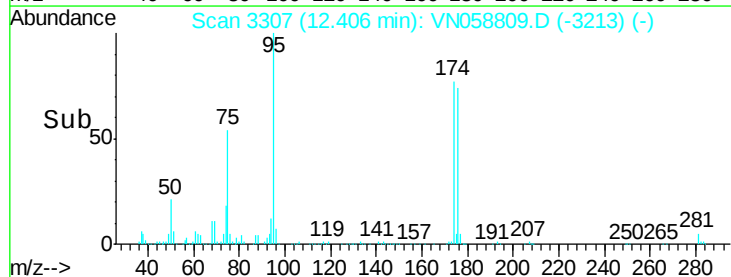
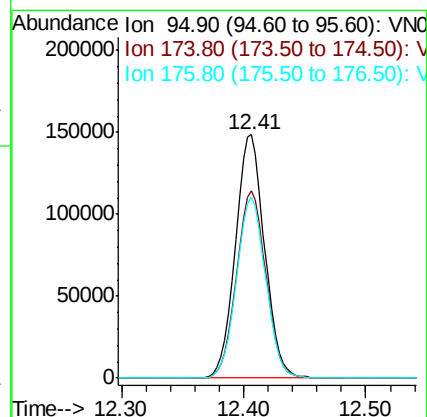
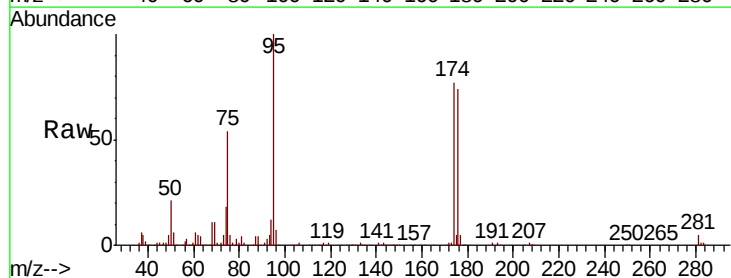
Tgt Ion: 95 Resp: 246533

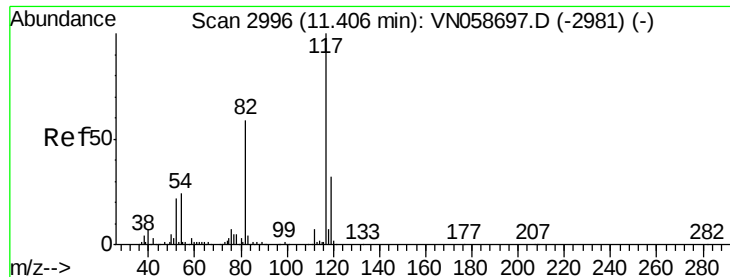
Ion Ratio Lower Upper

95 100

174 77.4 0.0 150.4

176 74.5 0.0 146.8

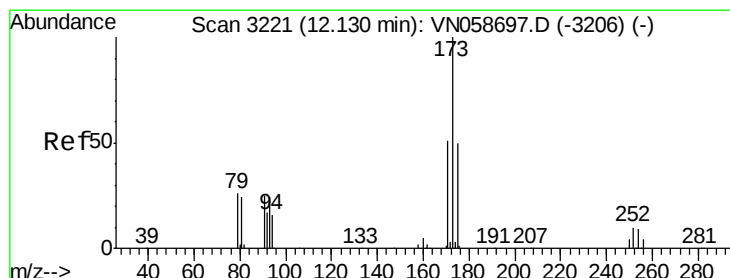
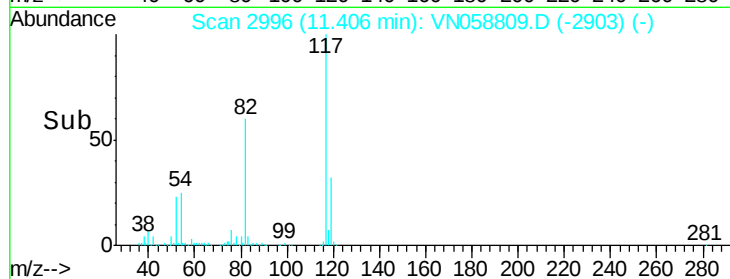
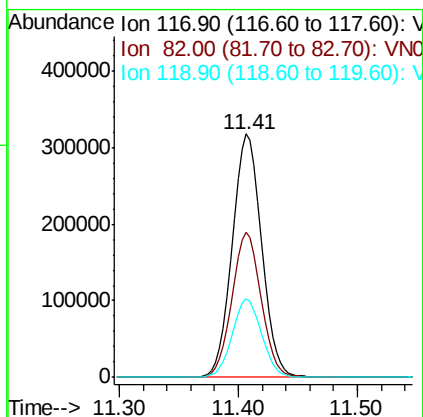
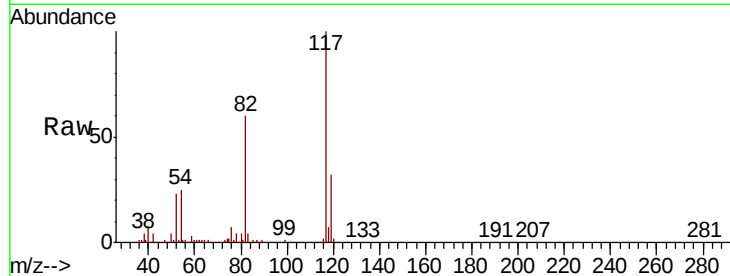




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

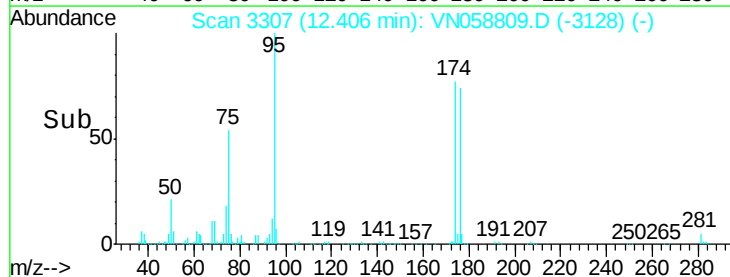
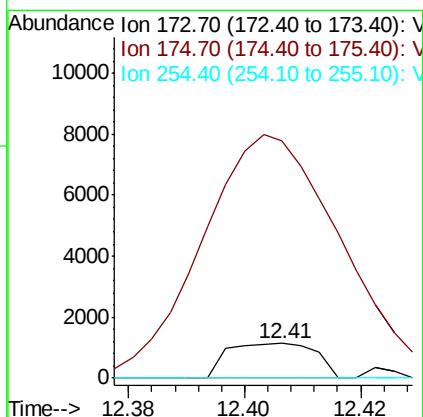
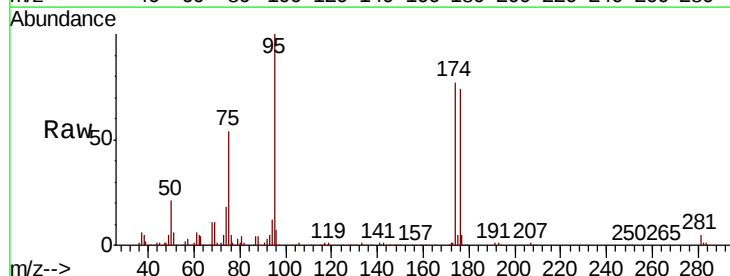
Instrument :
MSVOA_N
ClientSampleId :

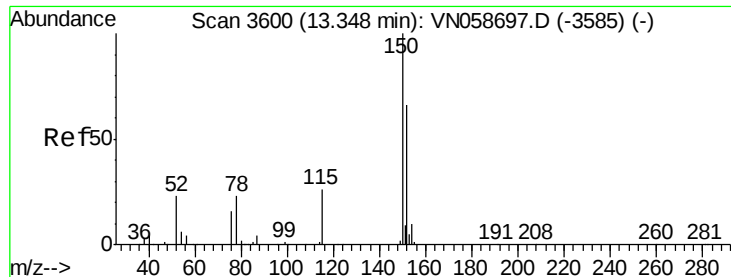
Tot Ion:117 Resp: 543781
Ion Ratio Lower Upper
117 100
82 59.6 47.0 70.4
119 32.1 25.4 38.2



#71
Bromoform
Concen: 0.397 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058809.D
Acq: 16 Oct 2019 18:02

Tgt Ion:173 Resp: 1189
Ion Ratio Lower Upper
173 100
175 971.7 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :

MSVOA_N

ClientSampleId :

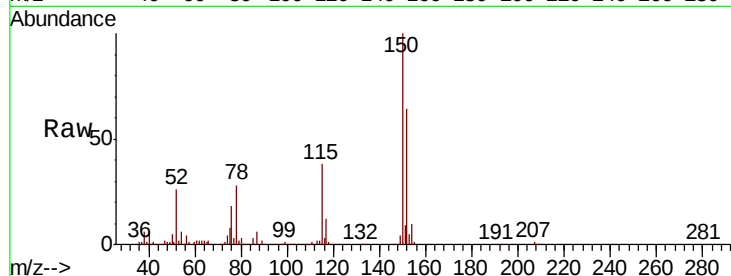
Tot Ion:152 Resp: 210241

Ion Ratio Lower Upper

152 100

115 60.3 30.4 91.2

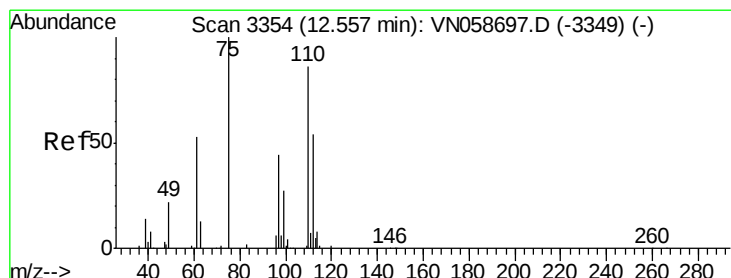
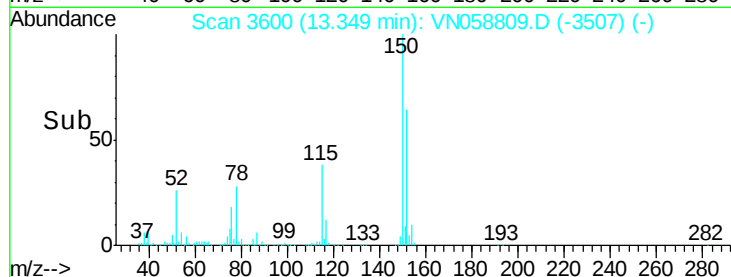
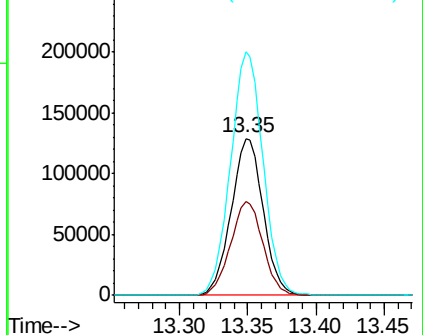
150 157.7 0.0 345.4



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: 29.483 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058809.D

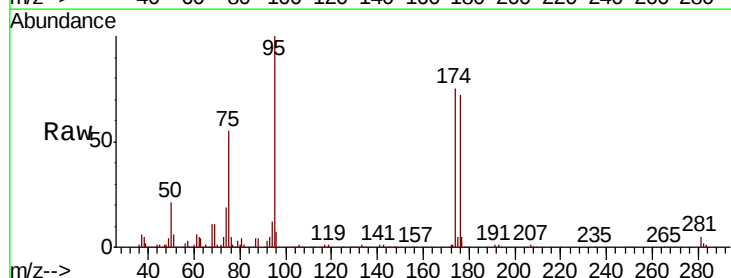
Acq: 16 Oct 2019 18:02

Tgt Ion: 75 Resp: 135982

Ion Ratio Lower Upper

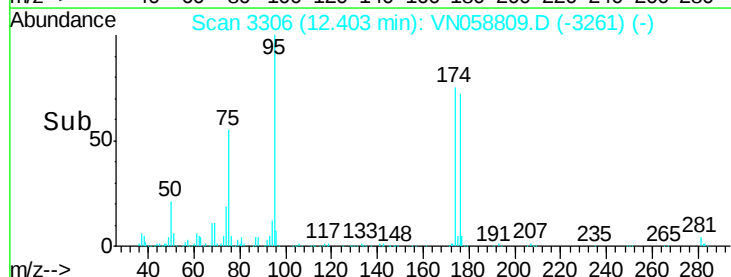
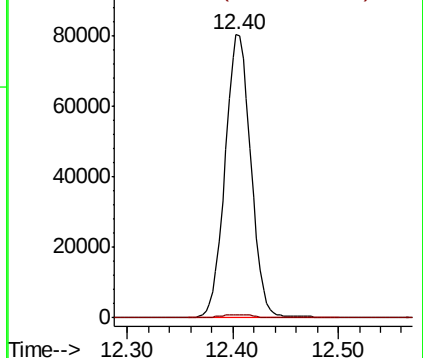
75 100

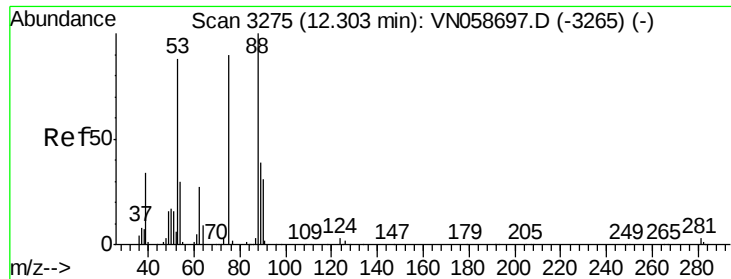
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 78.976 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058809.D

Acq: 16 Oct 2019 18:02

Instrument :

MSVOA_N

ClientSampleId :

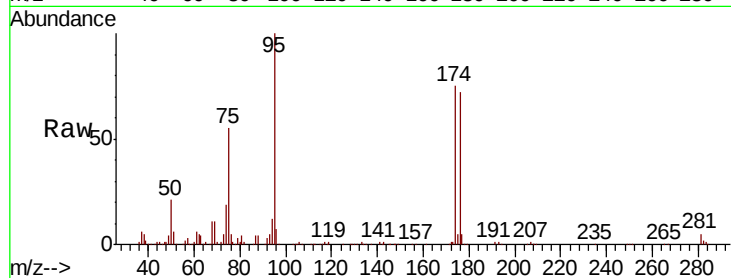
Tot Ion: 75 Resp: 135982

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



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

