

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056089.D
 Acq On : 7 Jun 2019 10:35
 Operator : JC/SP
 Sample : K3237-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 08 05:06:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	49630	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	260537	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	199940	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	95200	30.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.97%
60) 4-Bromofluorobenzene	12.40	95	68028	22.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.53%
63) Toluene-d8	10.09	98	294385	32.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	108.20%

Target Compounds

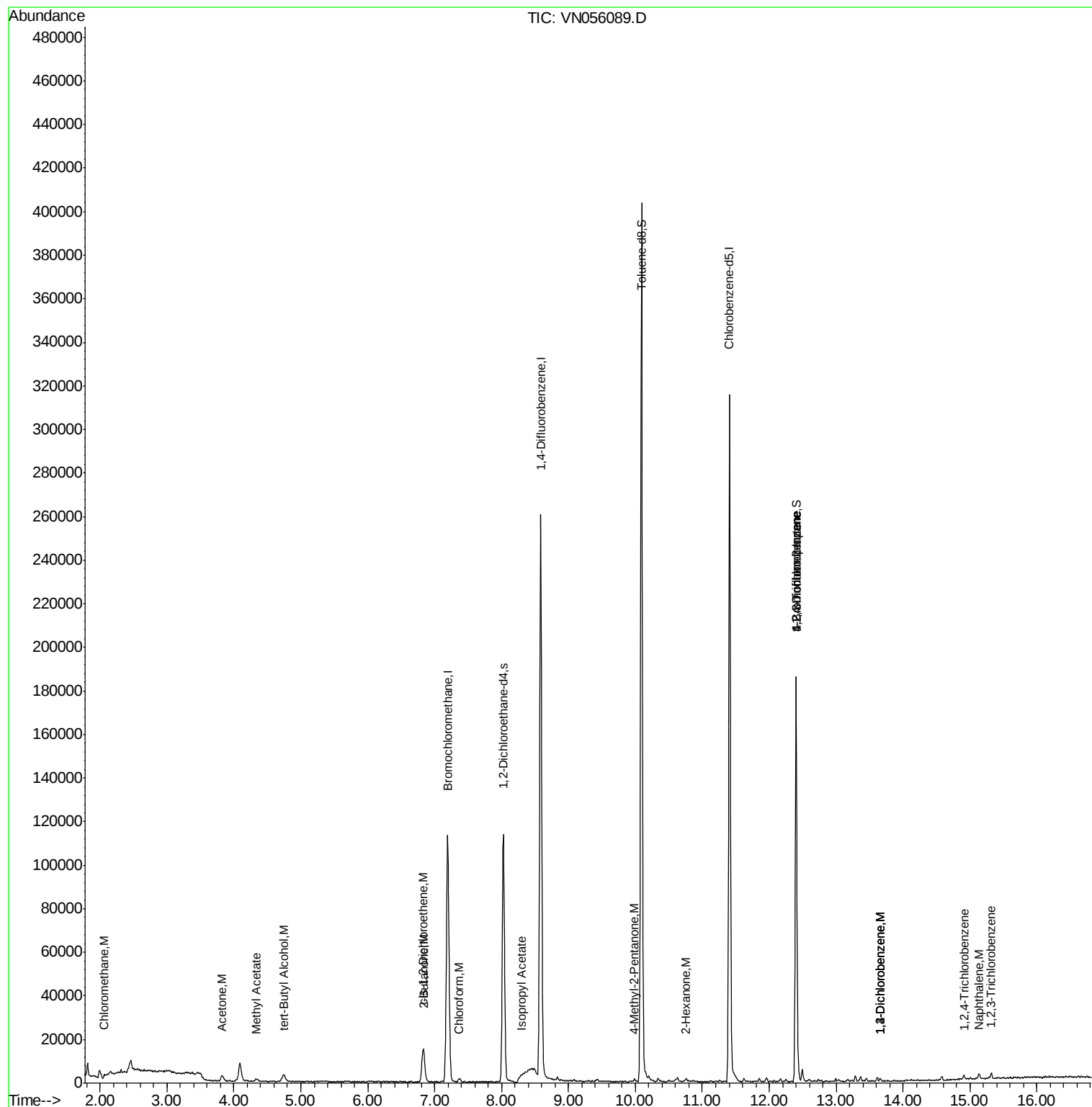
					Ovalue	
3) Chloromethane	2.06	50	945	0.290	ug/l	97
12) Methyl Acetate	4.33	43	1420	0.456	ug/l	92
15) Acetone	3.82	58	1409	3.100	ug/l	95
22) cis-1,2-Dichloroethene	6.82	96	6199	1.921	ug/l #	38
23) tert-Butyl Alcohol	4.74	59	1937	3.584	ug/l #	100
25) Chloroform	7.37	83	2108	0.437	ug/l	86
30) 2-Butanone	6.85	43	471	0.254	ug/l #	54
44) Isopropyl Acetate	8.29	43	2400	0.435	ug/l #	55
58) 4-Methyl-2-Pentanone	9.98	43	1506	0.497	ug/l #	62
59) 2-Hexanone	10.75	43	1405	0.649	ug/l #	68
72) 1,2,3-Trichloropropane	12.40	75	30546	10.398	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	30546	36.441	ug/l #	11
83) 1,3-Dichlorobenzene	13.65	146	965	0.207	ug/l	72
84) 1,4-Dichlorobenzene	13.65	146	965	0.218	ug/l	72
87) 1,2-Dichlorobenzene	13.65	146	965	0.204	ug/l	70
89) 1,2,4-Trichlorobenzene	14.91	180	1004	8.852	ug/l #	81
91) Naphthalene	15.13	128	3100	0.493	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.31	180	1269	0.512	ug/l	91

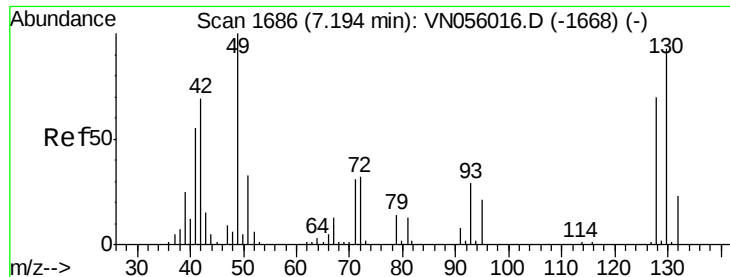
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampleId :

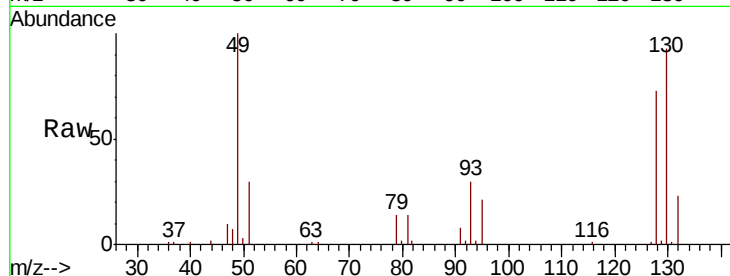
Tot Ion:128 Resp: 49630

Ion Ratio Lower Upper

128 100

49 140.3 0.0 355.8

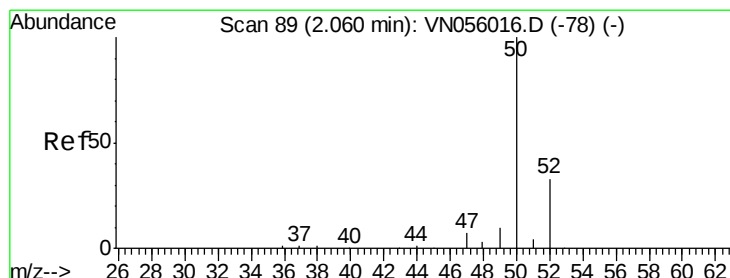
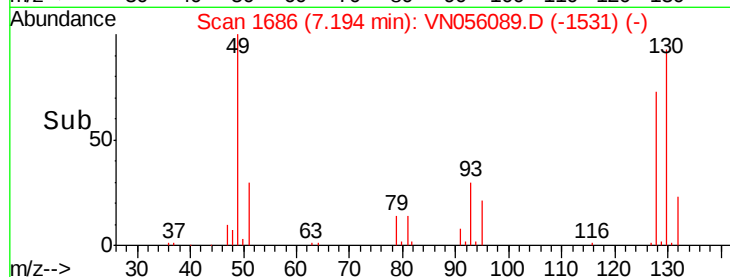
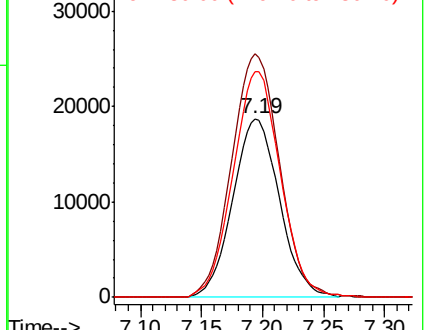
130 128.2 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.290 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056089.D

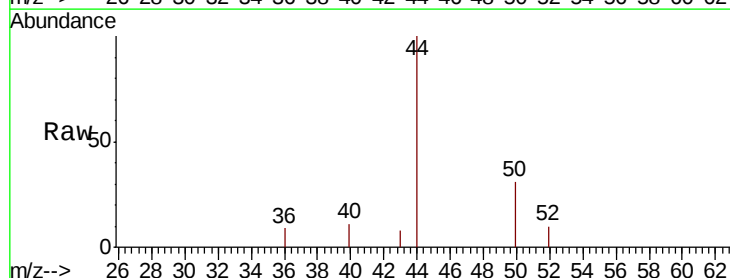
Acq: 7 Jun 2019 10:35

Tgt Ion: 50 Resp: 945

Ion Ratio Lower Upper

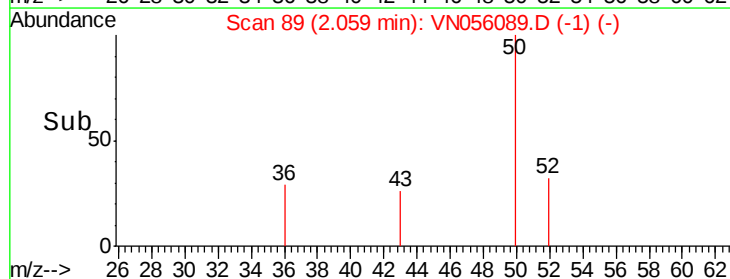
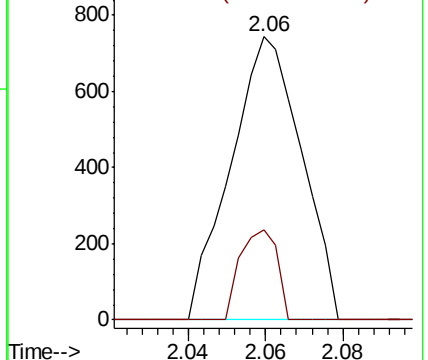
50 100

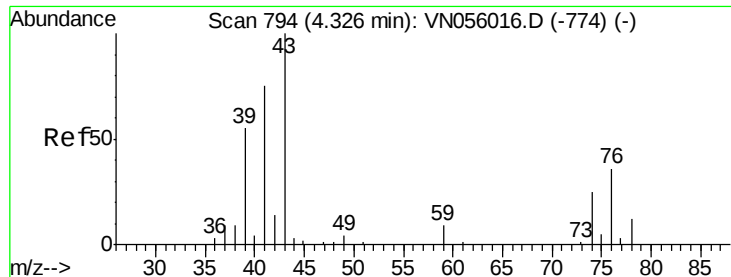
52 31.8 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN

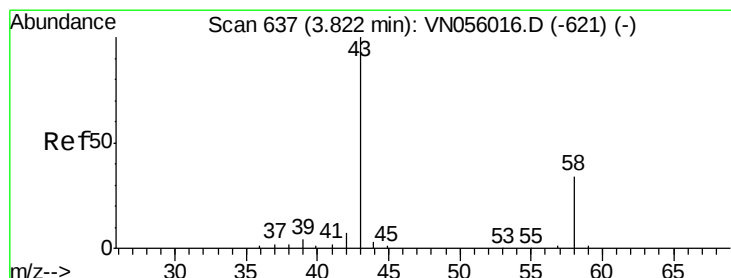
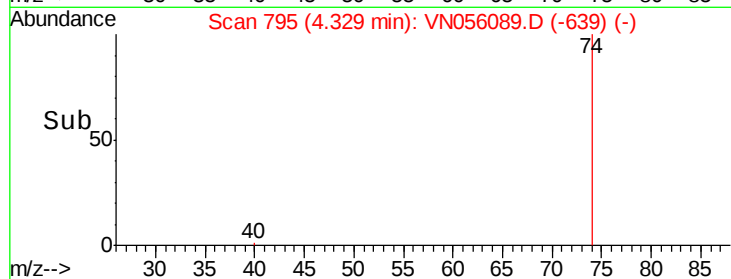
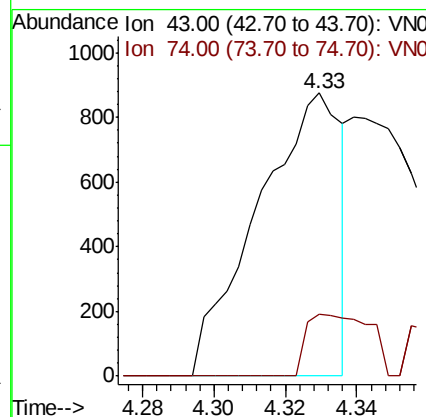
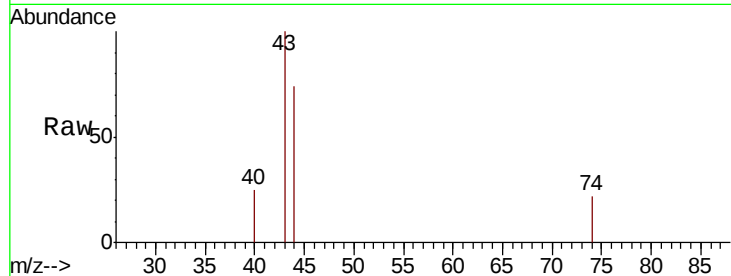




#12
Methvl Acetate
Concen: 0.456 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN056089.D
Acq: 7 Jun 2019 10:35

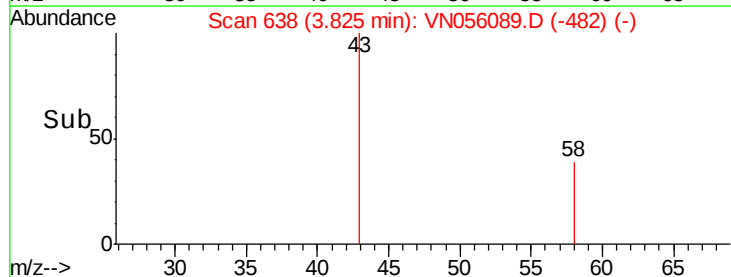
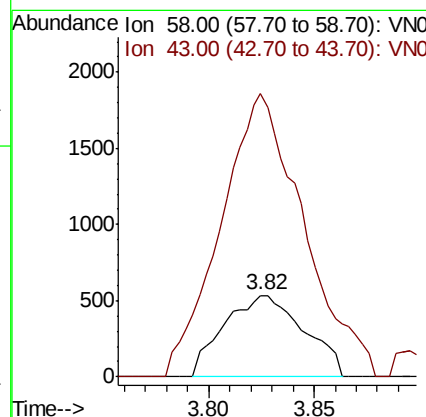
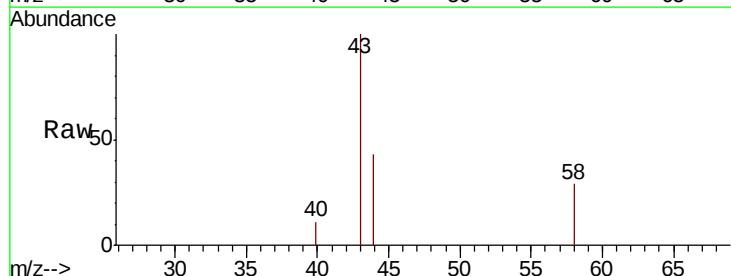
Instrument :
MSVOA_N
ClientSampleId :

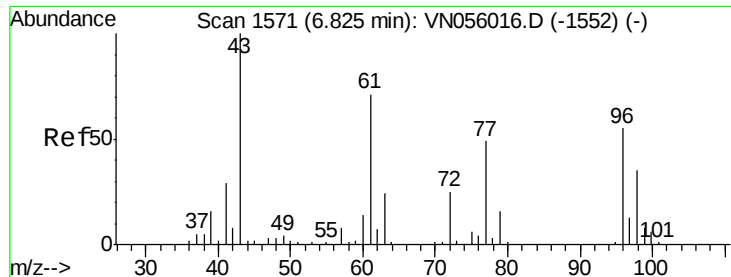
Tot Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
74 20.8 19.9 29.9



#15
Acetone
Concen: 3.100 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN056089.D
Acq: 7 Jun 2019 10:35

Tgt Ion: 58 Resp: 1409
Ion Ratio Lower Upper
58 100
43 281.9 232.5 348.7





#22

cis-1,2-Dichloroethene

Concen: 1.921 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :
MSVOA_N
ClientSampled :

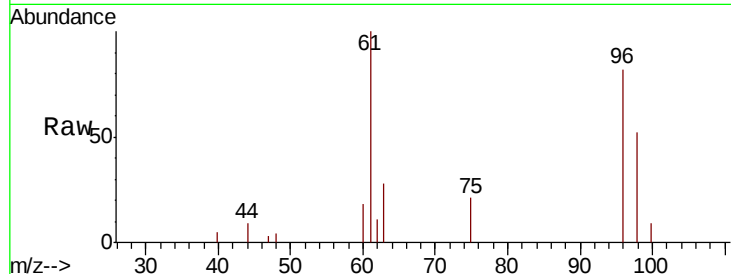
Tot Ion: 96 Resp: 6199

Ion Ratio Lower Upper

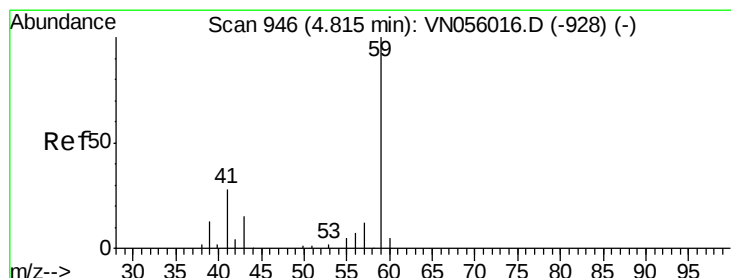
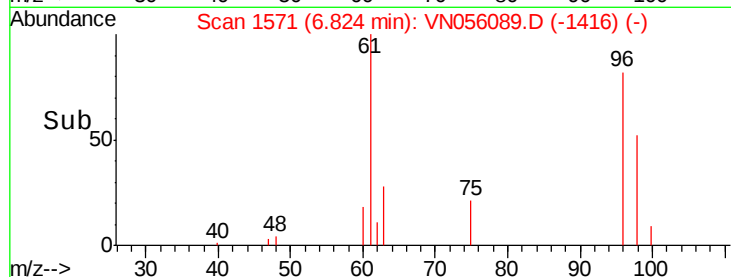
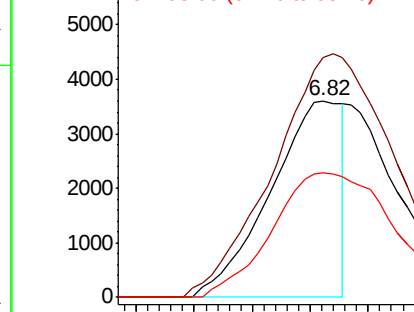
96 100

61 209.1 105.7 158.5#

98 107.4 52.0 78.0#



Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0



#23

tert-Butyl Alcohol

Concen: 3.584 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN056089.D

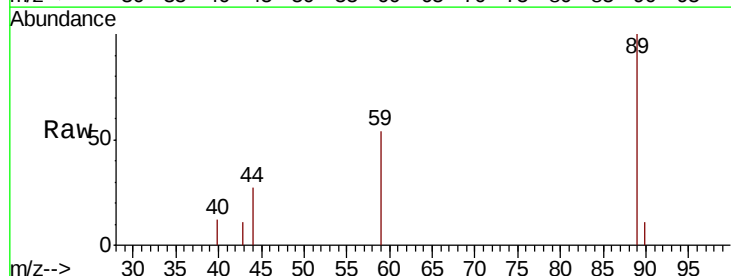
Acq: 7 Jun 2019 10:35

Tgt Ion: 59 Resp: 1937

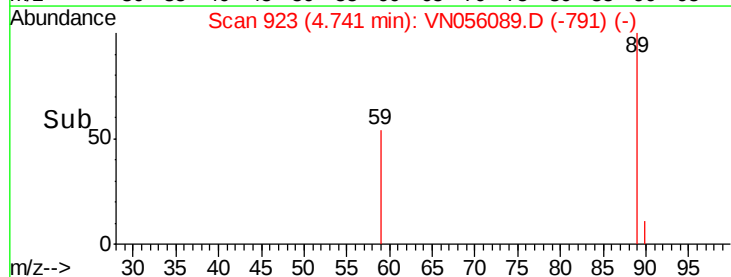
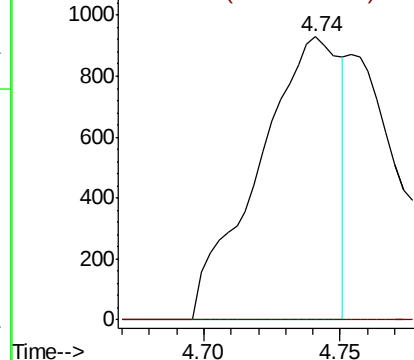
Ion Ratio Lower Upper

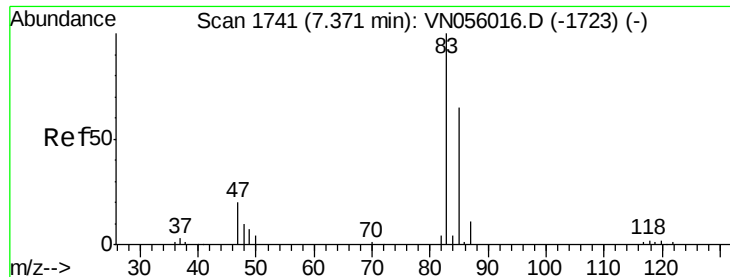
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

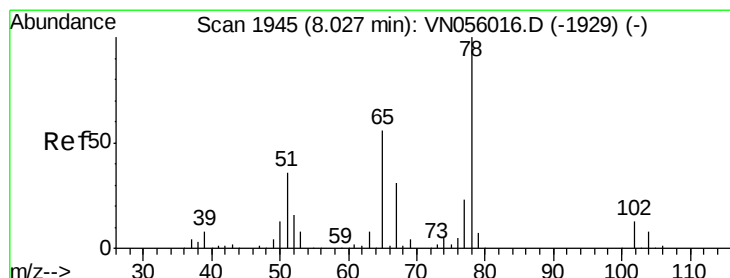
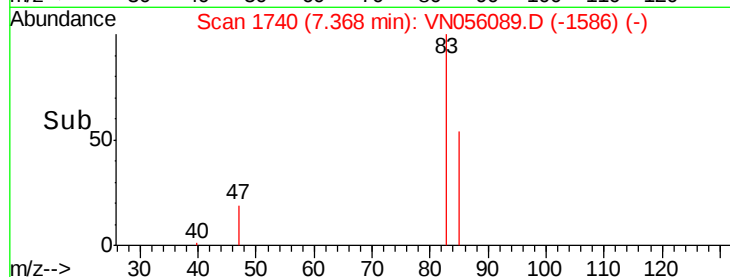
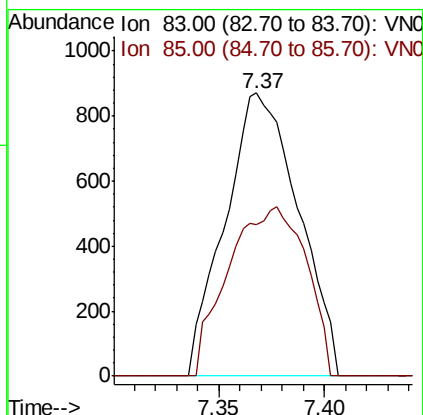
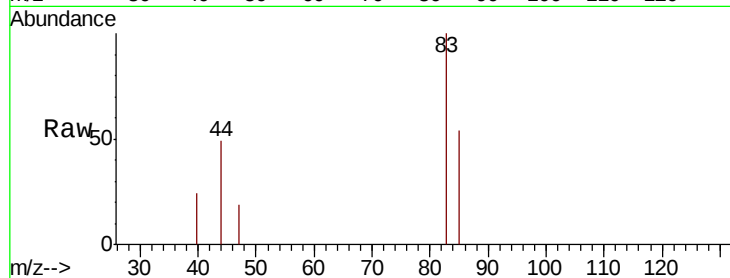




#25
Chloroform
Concen: 0.437 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056089.D
Acq: 7 Jun 2019 10:35

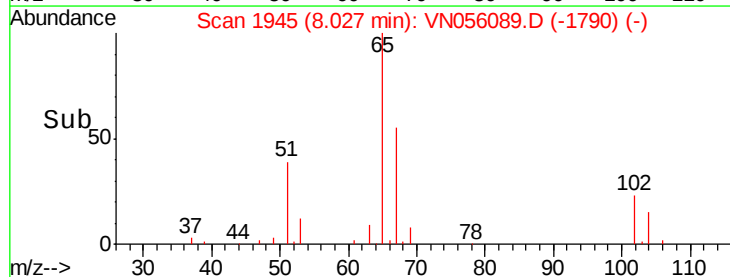
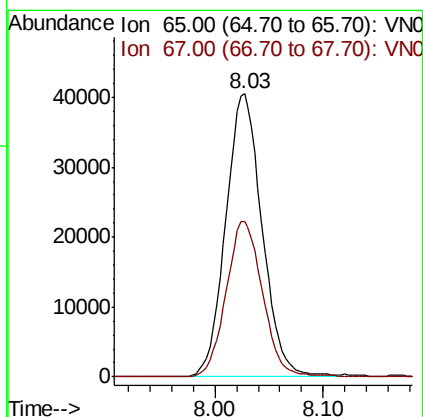
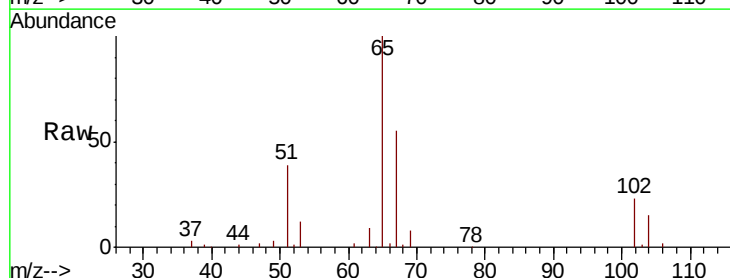
Instrument :
MSVOA_N
ClientSampleId :

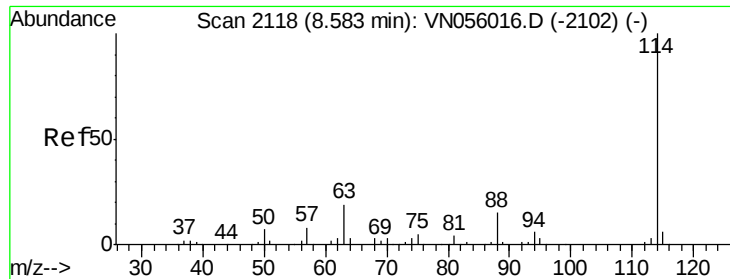
Tot Ion: 83 Resp: 2108
Ion Ratio Lower Upper
83 100
85 53.6 52.0 78.0



#27
1,2-Dichloroethane-d4
Concen: 30.889 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056089.D
Acq: 7 Jun 2019 10:35

Tgt Ion: 65 Resp: 95200
Ion Ratio Lower Upper
65 100
67 54.7 43.4 65.2

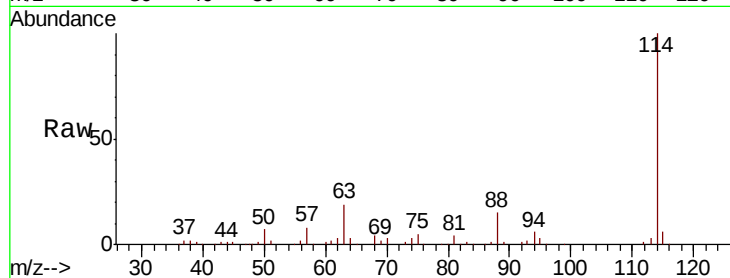




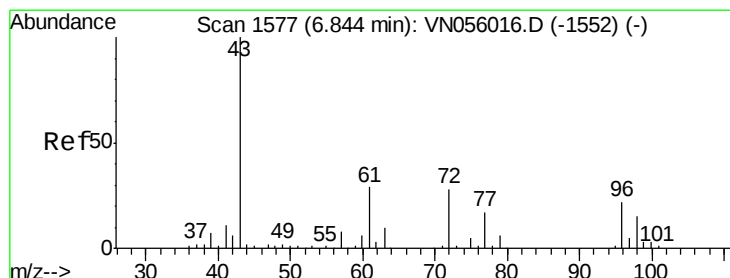
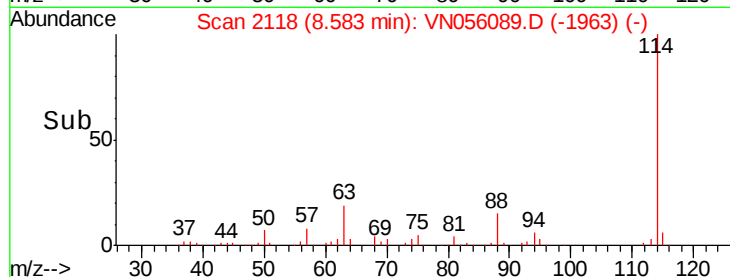
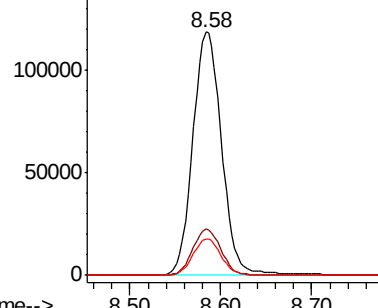
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056089.D
 Acq: 7 Jun 2019 10:35

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 260537
 Ion Ratio Lower Upper
 114 100
 63 18.7 14.7 22.1
 88 14.7 11.9 17.9

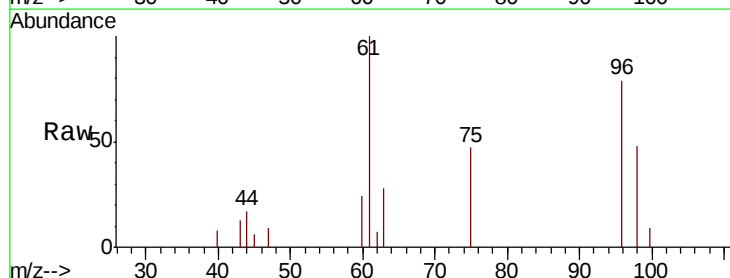


Abundance Ion 114.00 (113.70 to 114.70): VN056016.D (-2102) (-)
 Ion 63.00 (62.70 to 63.70): VN056016.D (-2102) (-)
 Ion 88.00 (87.70 to 88.70): VN056016.D (-2102) (-)

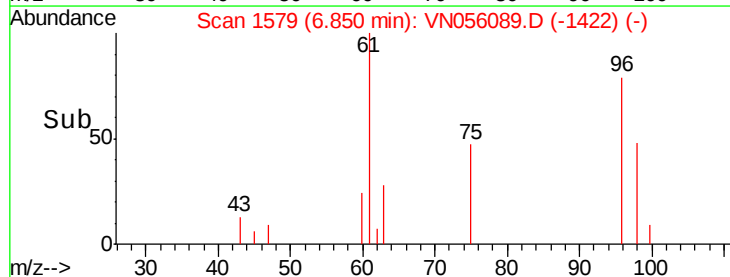
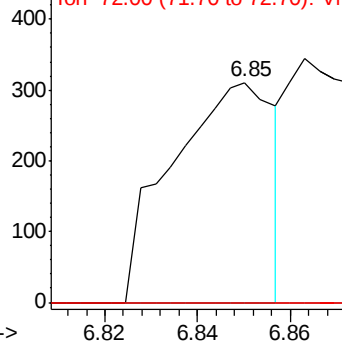


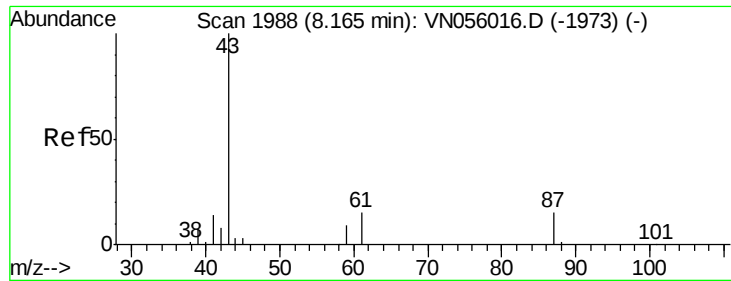
#30
 2-Butanone
 Concen: 0.254 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN056089.D
 Acq: 7 Jun 2019 10:35

Tgt Ion: 43 Resp: 471
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.7 10.1#
 72 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN056016.D (-1552) (-)
 Ion 57.00 (56.70 to 57.70): VN056016.D (-1552) (-)
 Ion 72.00 (71.70 to 72.70): VN056016.D (-1552) (-)





#44

Isopropyl Acetate

Concen: 0.435 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

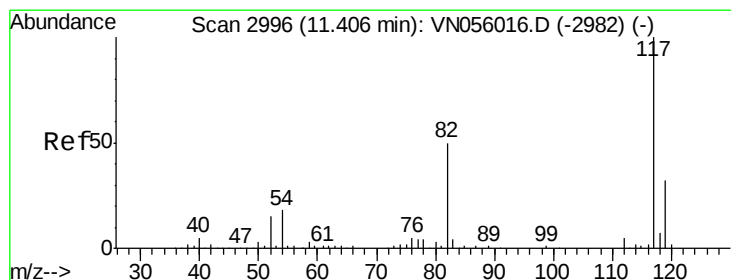
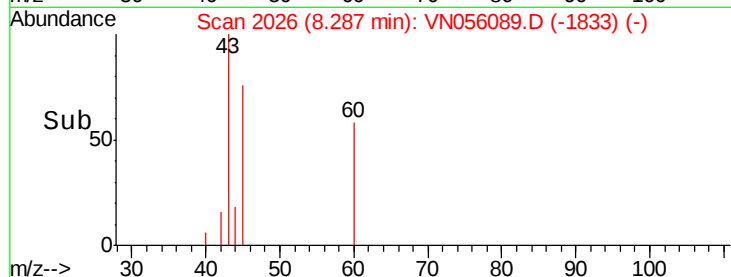
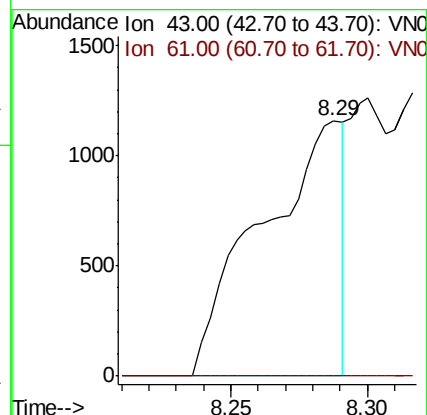
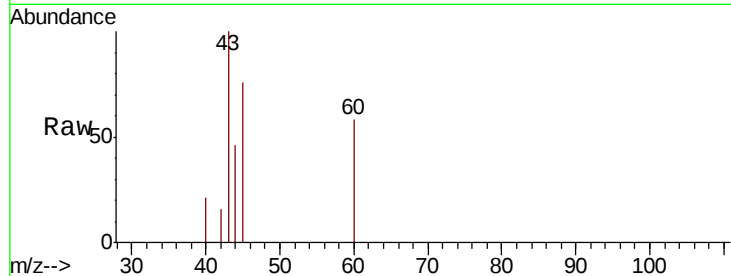
ClientSampled :

Tot Ion: 43 Resp: 2400

Ion Ratio Lower Upper

43 100

61 0.0 16.9 25.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

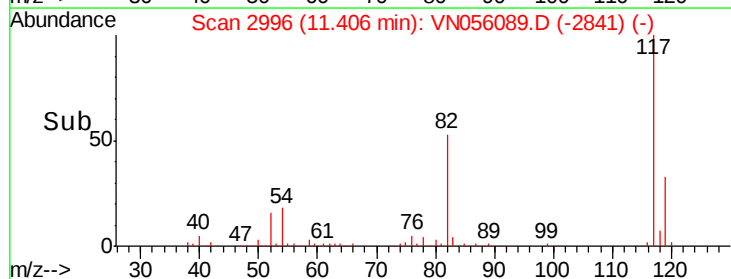
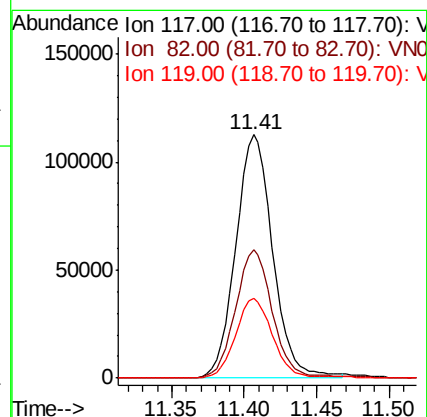
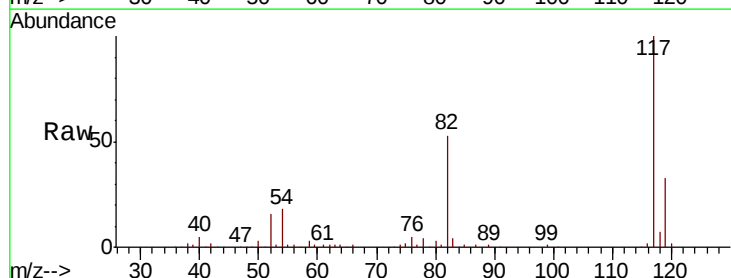
Tgt Ion: 117 Resp: 199940

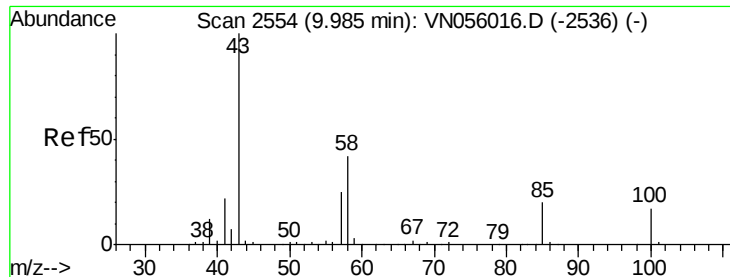
Ion Ratio Lower Upper

117 100

82 52.9 41.2 61.8

119 32.5 26.2 39.2





#58

4-Methyl-2-Pentanone

Concen: 0.497 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampled :

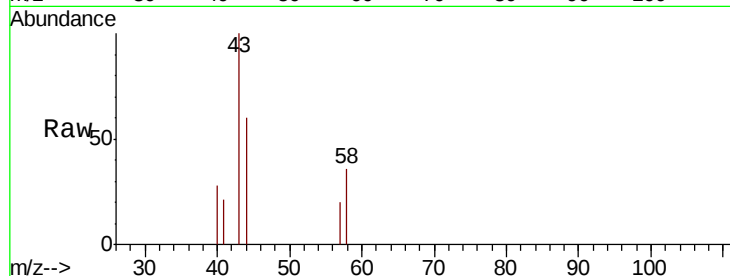
Tot Ion: 43 Resp: 1506

Ion Ratio Lower Upper

43 100

58 19.1 33.1 49.7#

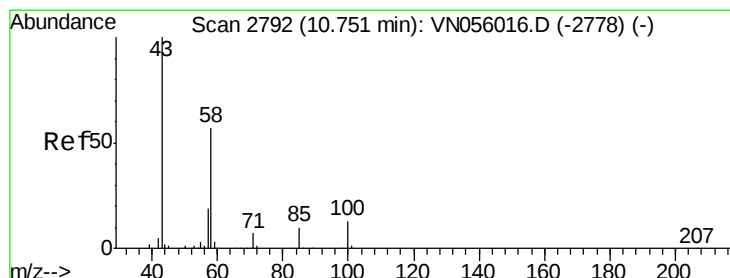
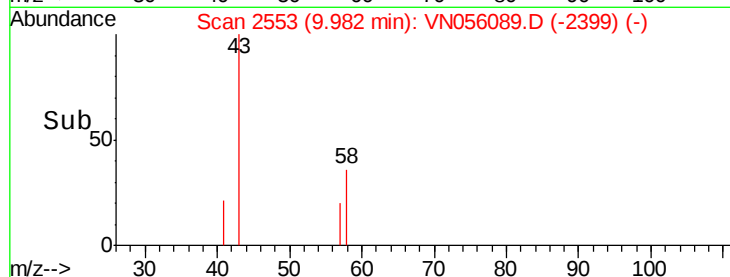
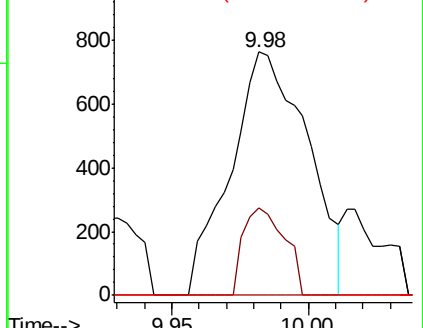
85 0.0 15.5 23.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 0.649 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

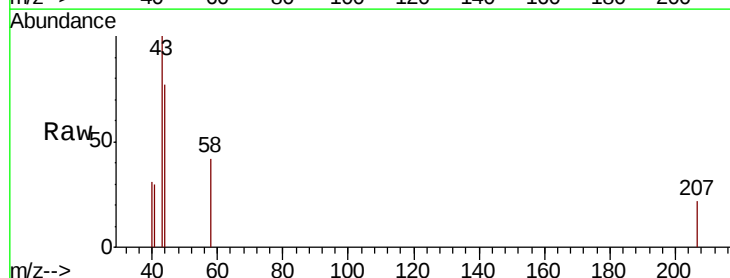
Tgt Ion: 43 Resp: 1405

Ion Ratio Lower Upper

43 100

58 35.9 45.3 67.9#

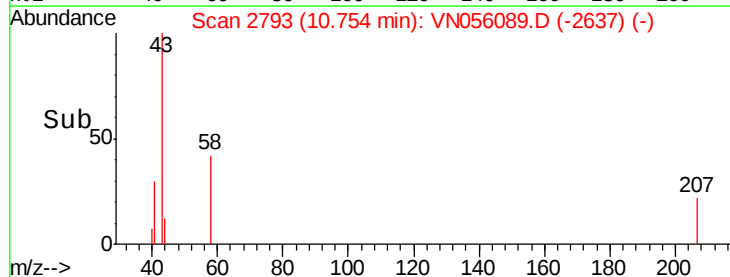
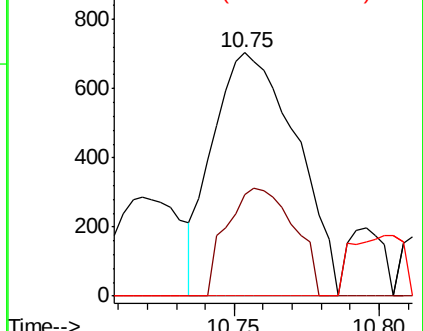
57 0.0 15.6 23.4#

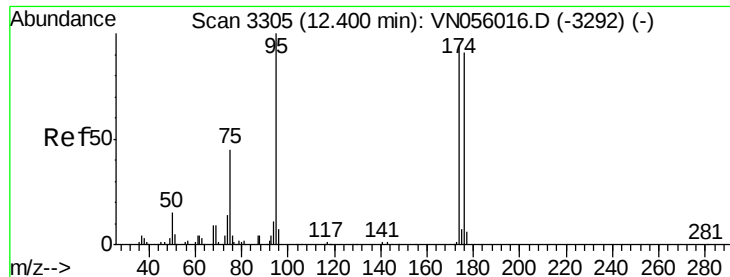


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 22.955 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampled :

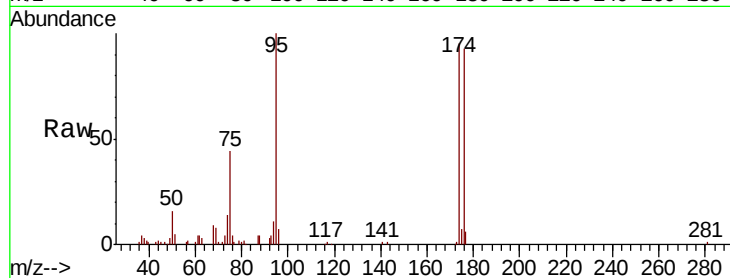
Tot Ion: 95 Resp: 68028

Ion Ratio Lower Upper

95 100

174 96.6 75.4 113.0

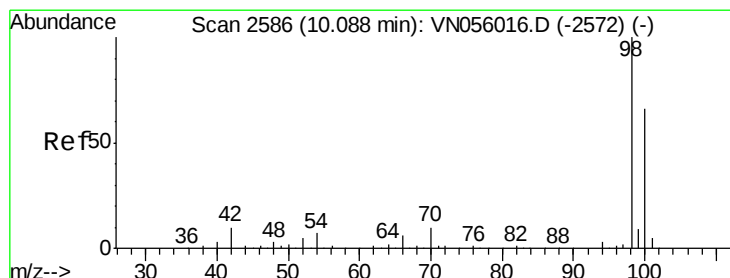
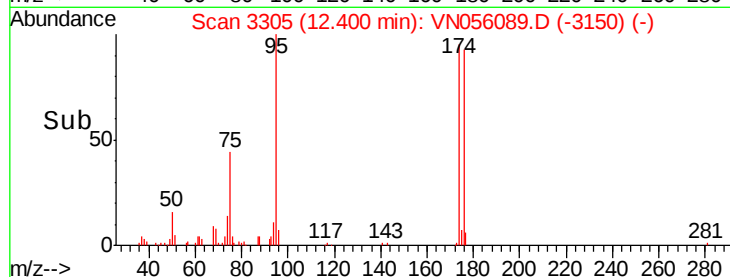
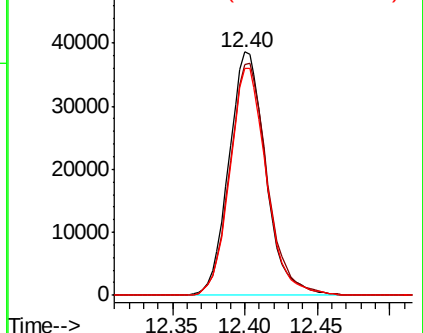
176 92.8 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056016.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN056016.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN056016.D (-3292) (-)



#63

Toluene-d8

Concen: 32.457 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056089.D

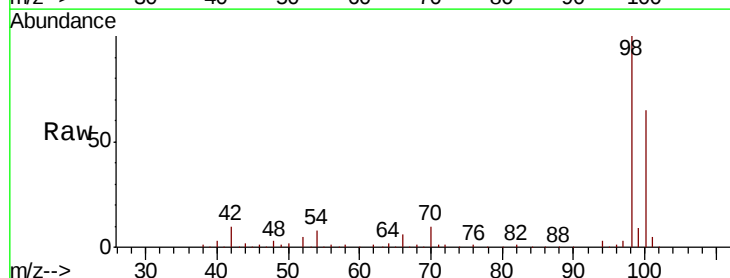
Acq: 7 Jun 2019 10:35

Tgt Ion: 98 Resp: 294385

Ion Ratio Lower Upper

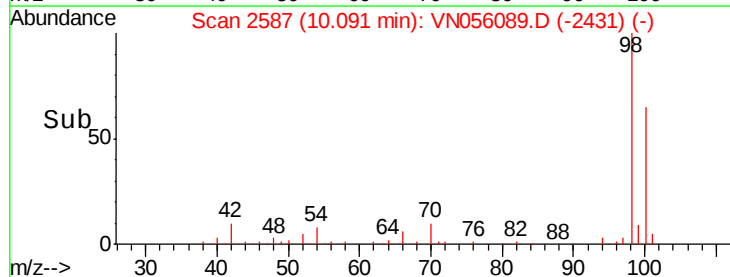
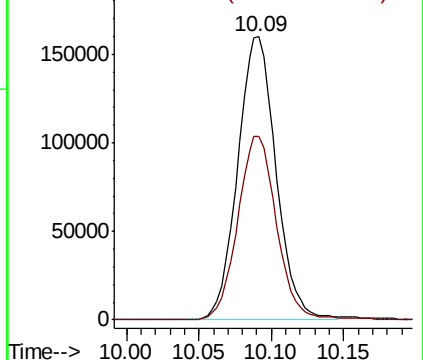
98 100

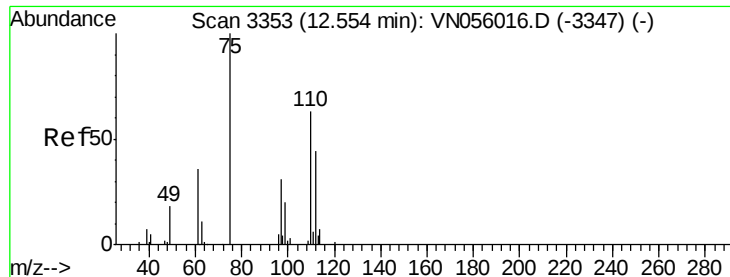
100 65.0 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056016.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-2572) (-)





#72

1,2,3-Trichloropropane

Concen: 10.398 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

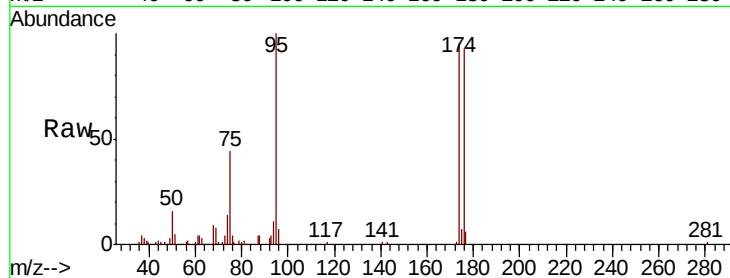
ClientSampleId :

Tot Ion: 75 Resp: 30546

Ion Ratio Lower Upper

75 100

77 1.0 0.0 350.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

20000

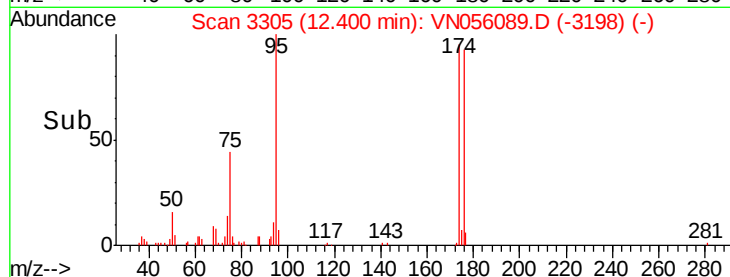
15000

10000

5000

0

Time-->



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

20000

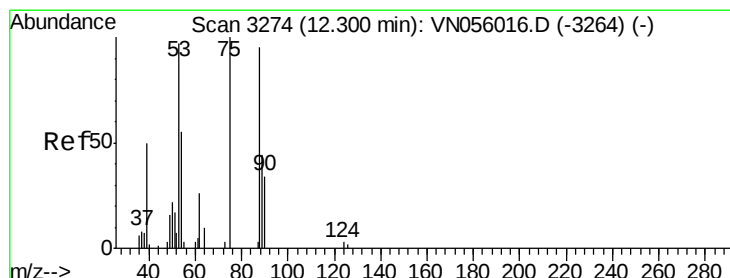
15000

10000

5000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 36.441 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

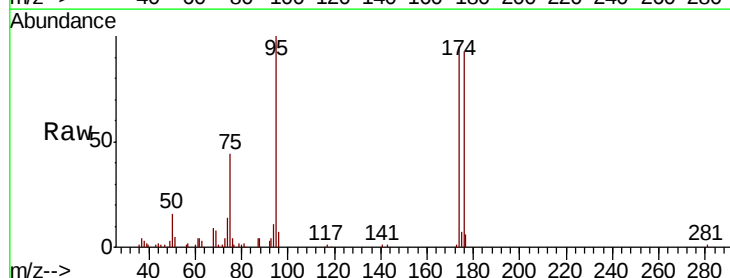
Tgt Ion: 75 Resp: 30546

Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

20000

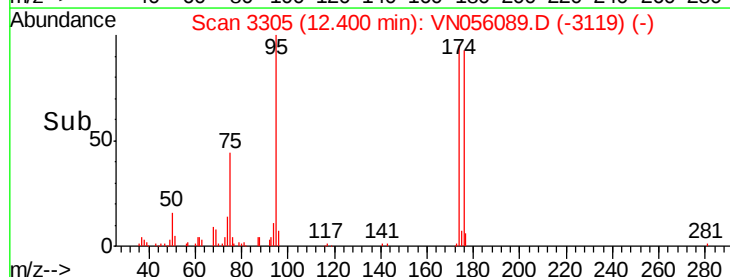
15000

10000

5000

0

Time-->



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

20000

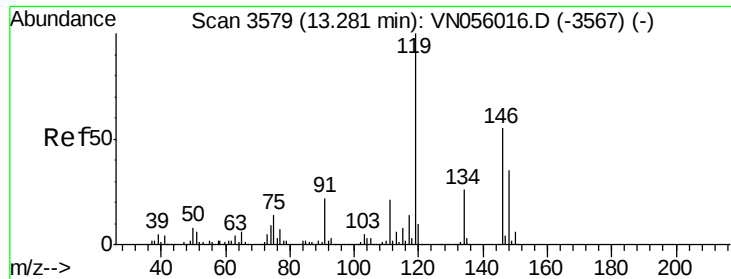
15000

10000

5000

0

Time-->



#83

1,3-Dichlorobenzene

Concen: 0.207 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.37 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampled :

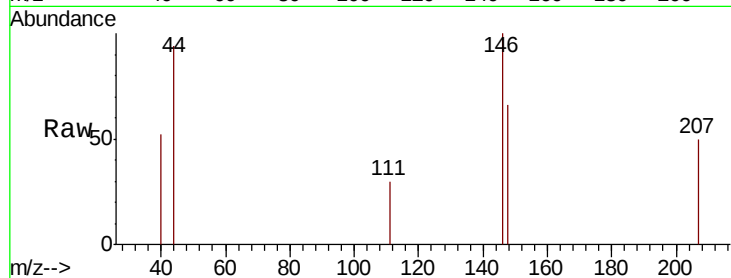
Tot Ion:146 Resp: 965

Ion Ratio Lower Upper

146 100

111 19.4 18.2 54.6

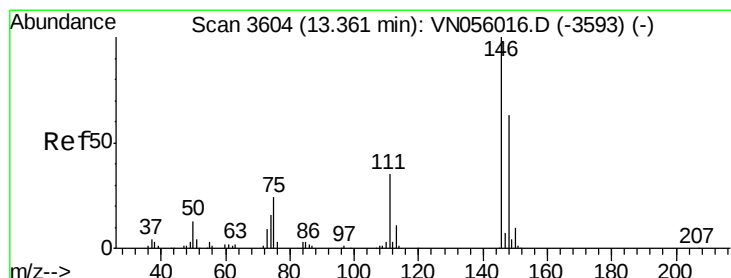
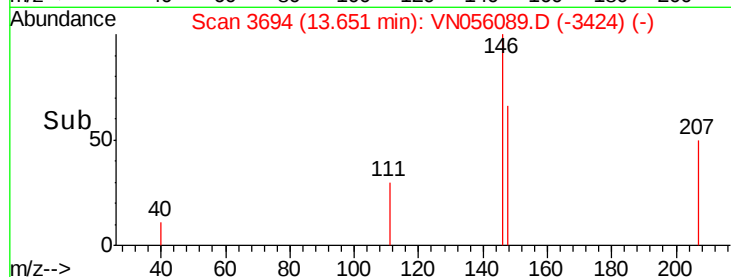
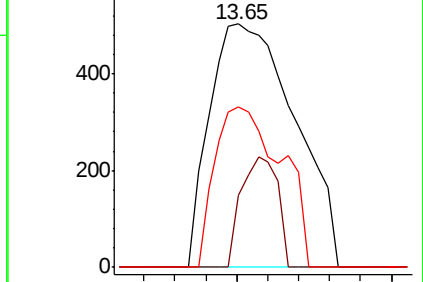
148 42.5 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 0.218 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.29 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

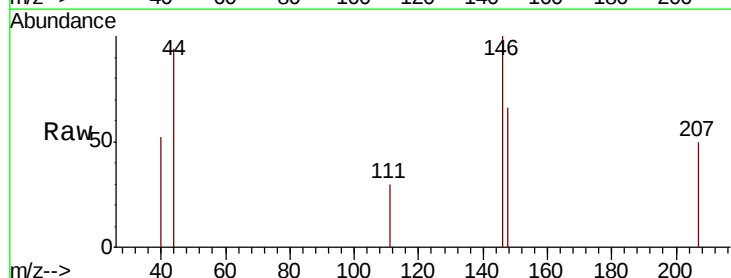
Tgt Ion:146 Resp: 965

Ion Ratio Lower Upper

146 100

111 19.4 17.6 52.9

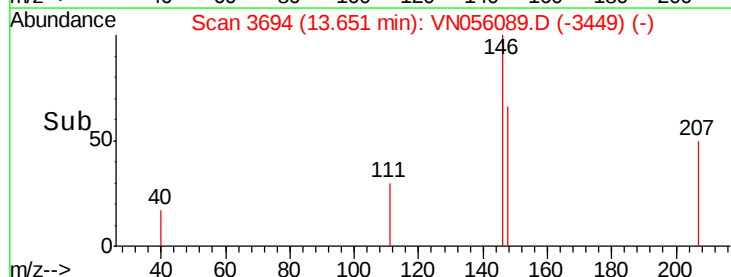
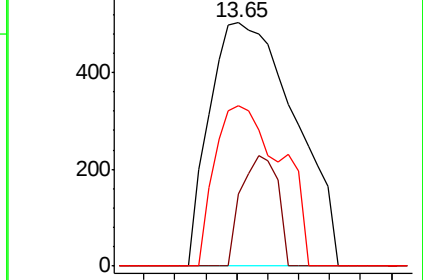
148 42.5 32.1 96.3

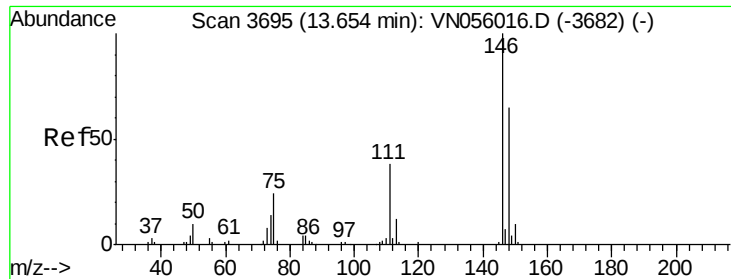


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#87

1,2-Dichlorobenzene

Concen: 0.204 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampled :

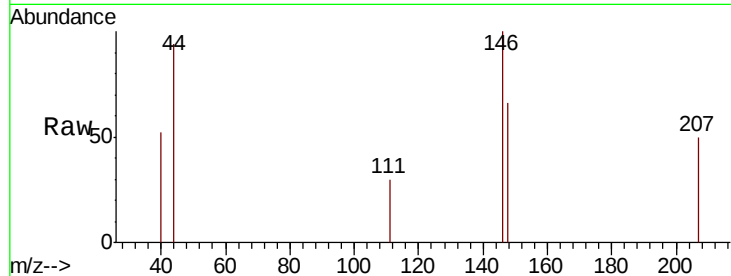
Tot Ion:146 Resp: 965

Ion Ratio Lower Upper

146 100

111 19.4 19.3 57.9

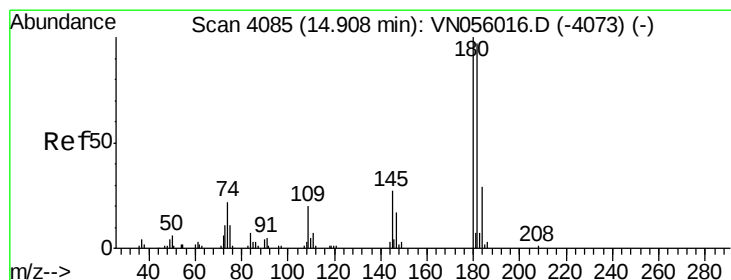
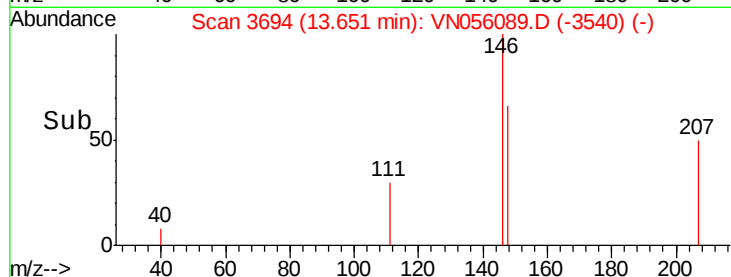
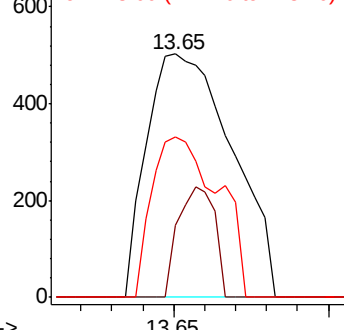
148 42.5 32.6 97.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 8.852 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

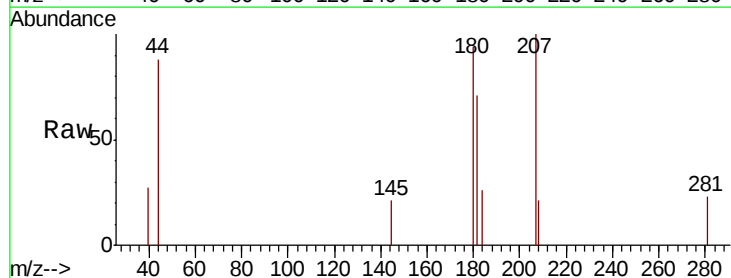
Tgt Ion:180 Resp: 1004

Ion Ratio Lower Upper

180 100

182 84.9 75.0 112.6

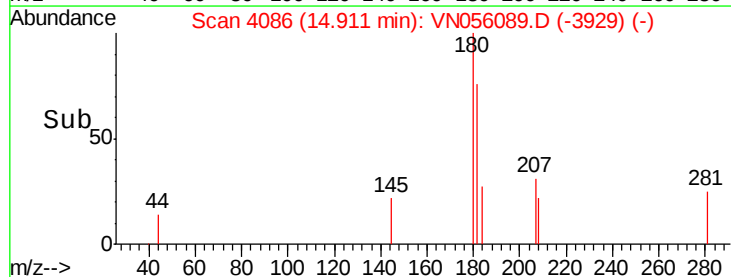
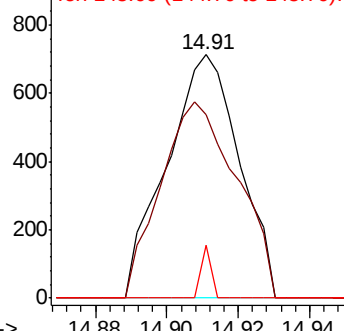
145 0.0 22.1 33.1#

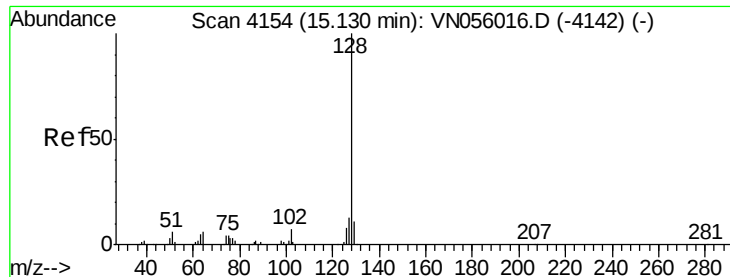


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 0.493 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

Instrument :

MSVOA_N

ClientSampleId :

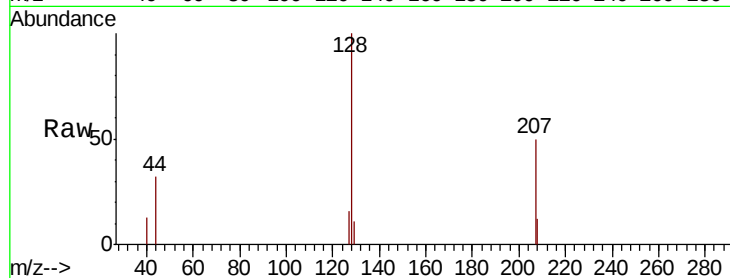
Tot Ion:128 Resp: 3100

Ion Ratio Lower Upper

128 100

127 11.4 10.4 15.6

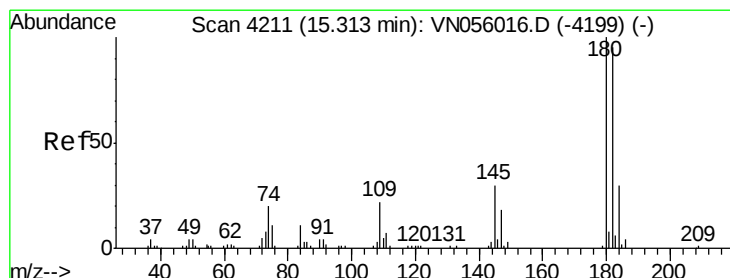
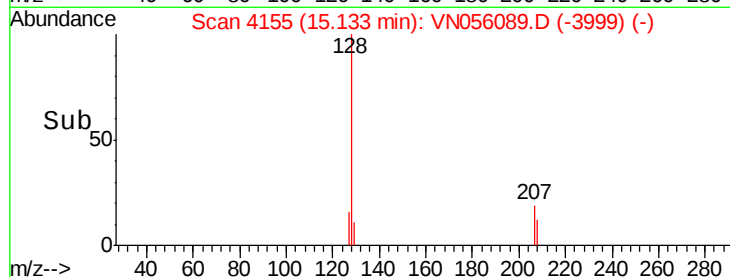
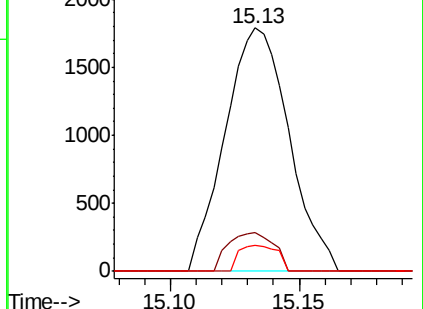
129 6.4 8.7 13.1#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.512 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN056089.D

Acq: 7 Jun 2019 10:35

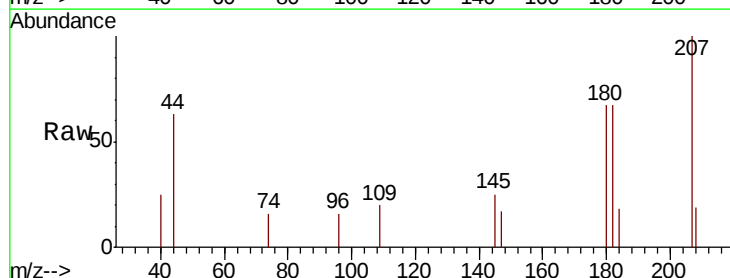
Tgt Ion:180 Resp: 1269

Ion Ratio Lower Upper

180 100

182 92.2 0.0 193.4

145 16.9 0.0 59.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

