

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054628.D
 Acq On : 24 Mar 2019 2:58
 Operator : JC/SP
 Sample : K2043-07
 Misc : 6.42g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB441-190319-(23-25)ME

Quant Time: Mar 25 03:42:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	563024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	867788	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	742037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	301343	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	343299	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
35) Dibromofluoromethane	7.59	113	262567	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	10.09	98	1054194	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	338072	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	

Target Compounds

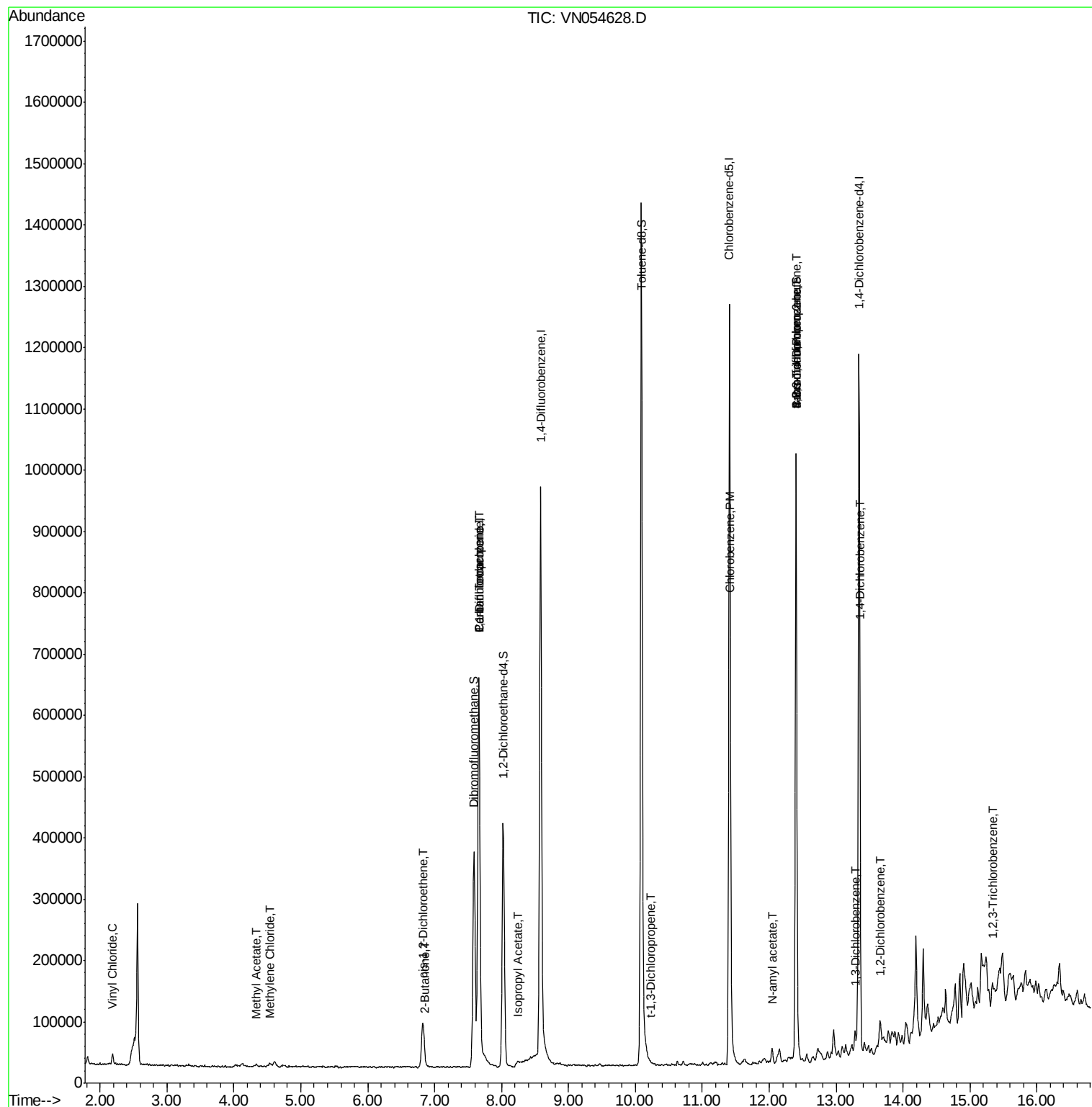
						Qvalue
4) Vinyl Chloride	2.19	62	15785	2.147	ug/l	97
18) Methyl Acetate	4.32	43	1872	0.399	ug/l #	62
20) Methylene Chloride	4.55	84	3107	0.501	ug/l #	92
25) 2-Butanone	6.87	43	1331	0.493	ug/l #	46
27) cis-1,2-Dichloroethene	6.82	96	46796	7.075	ug/l	98
31) Cyclohexane	7.66	56	11578	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	41143	5.071	ug/l #	47
38) Carbon Tetrachloride	7.66	117	52140	6.613	ug/l #	16
43) Isopropyl Acetate	8.24	43	6460	0.663	ug/l #	60
53) t-1,3-Dichloropropene	10.24	75	343	2.272	ug/l #	42
65) Chlorobenzene	11.43	112	3245	0.215	ug/l	96
71) Bromoform	12.41	173	1071	2.494	ug/l #	1
74) N-amyl acetate	12.04	43	5595	0.801	ug/l #	60
76) 1,2,3-Trichloropropane	12.40	75	175666	36.736	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	175666	121.780	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	7696	0.771	ug/l #	85
88) 1,4-Dichlorobenzene	13.36	146	4316	0.444	ug/l #	4
91) 1,2-Dichlorobenzene	13.65	146	9084	0.940	ug/l	86
96) 1,2,3-Trichlorobenzene	15.33	180	1081	0.225	ug/l	79

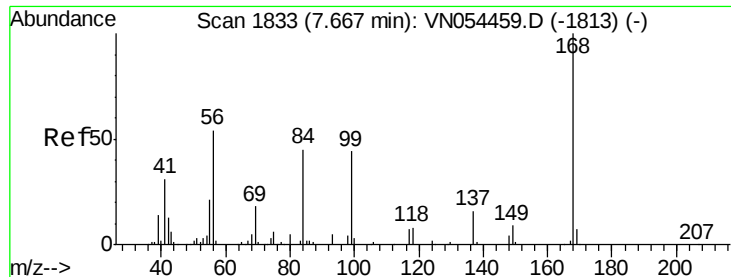
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

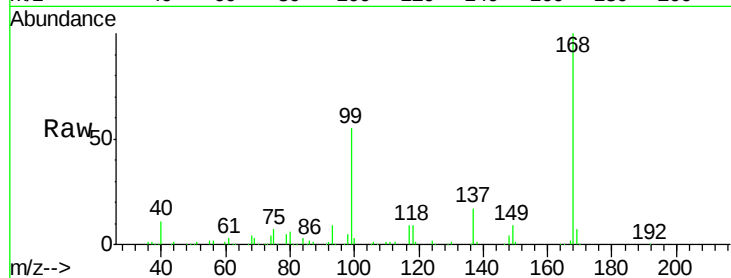
WP022SB441-190319-(23-25)ME

Tot Ion:168 Resp: 563024

Ion Ratio Lower Upper

168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

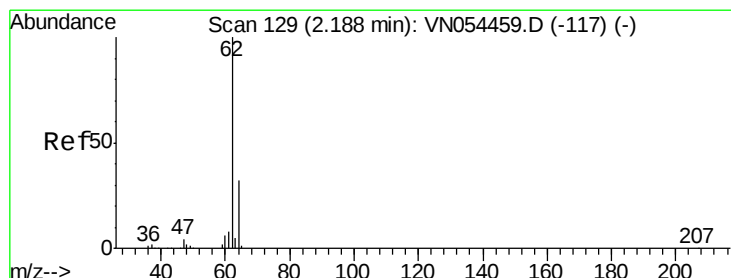
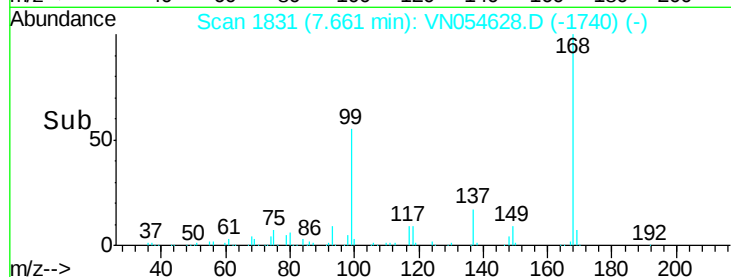
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#4

Vinyl Chloride

Concen: 2.147 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054628.D

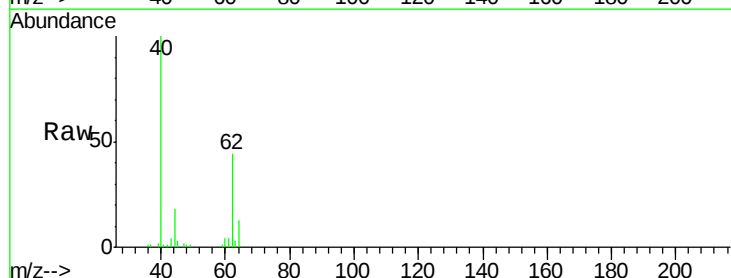
Acq: 24 Mar 2019 2:58

Tgt Ion: 62 Resp: 15785

Ion Ratio Lower Upper

62 100

64 30.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

12000

10000

8000

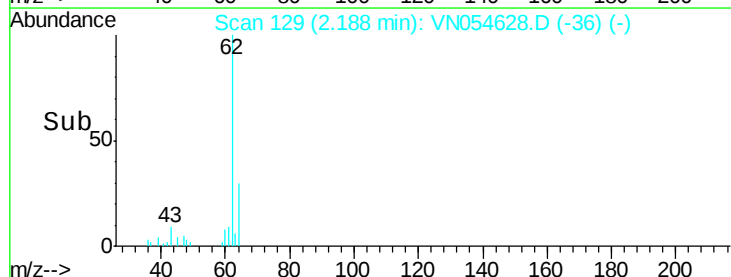
6000

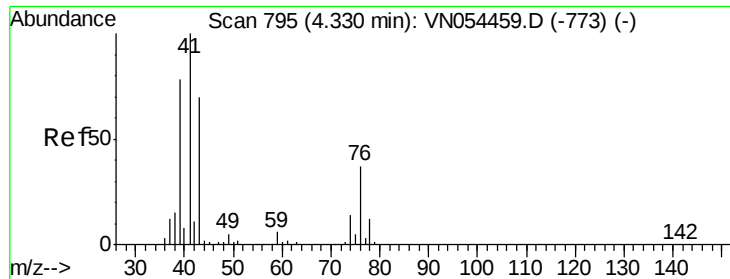
4000

2000

0

Time--> 2.15 2.20 2.25

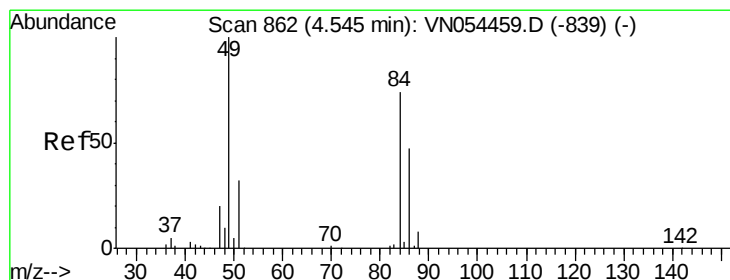
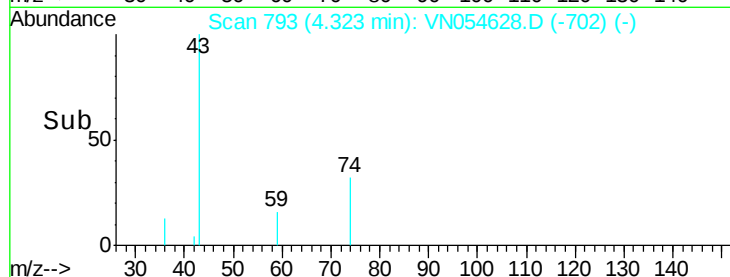
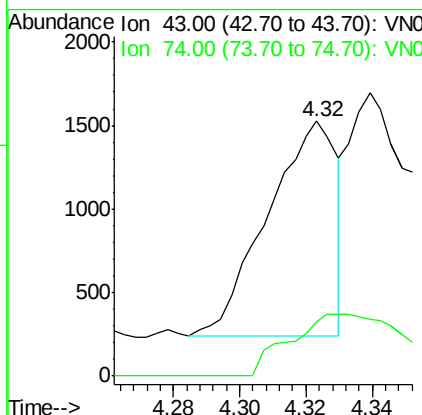
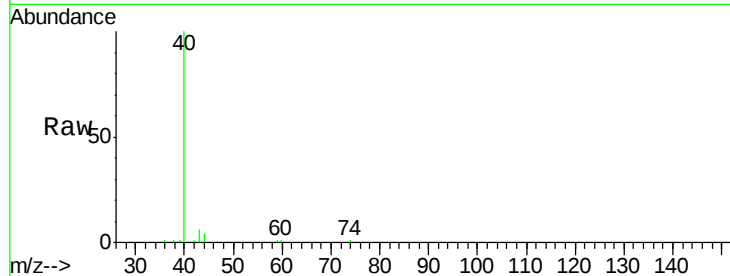




#18
Methvl Acetate
Concen: 0.399 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

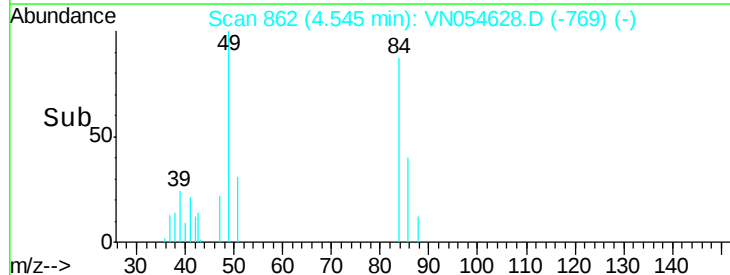
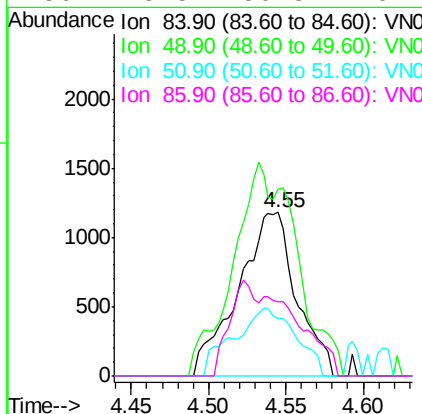
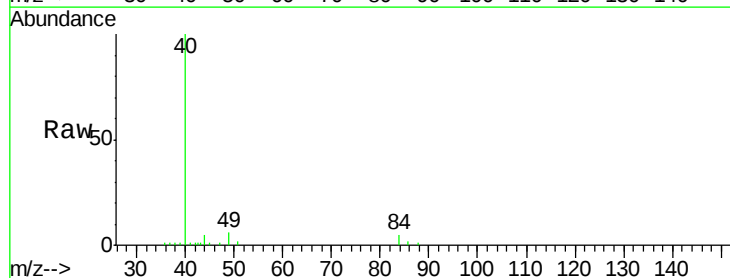
Instrument :
MSVOA_N
ClientSampleId :
WP022SB441-190319-(23-25)ME

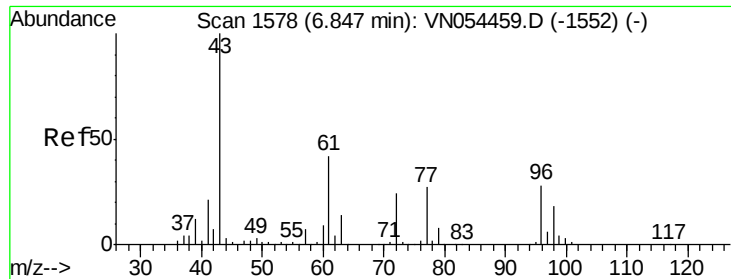
Tot Ion: 43 Resp: 1872
Ion Ratio Lower Upper
43 100
74 45.3 20.8 31.2#



#20
Methylene Chloride
Concen: 0.501 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Tgt Ion: 84 Resp: 3107
Ion Ratio Lower Upper
84 100
49 114.6 89.7 134.5
51 35.0 28.2 42.4
86 45.5 50.8 76.2#





#25

2-Butanone

Concen: 0.493 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. 0.02 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

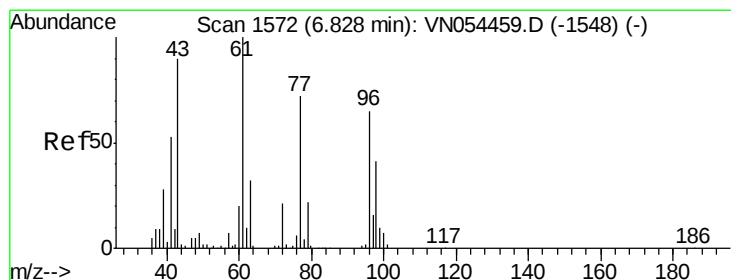
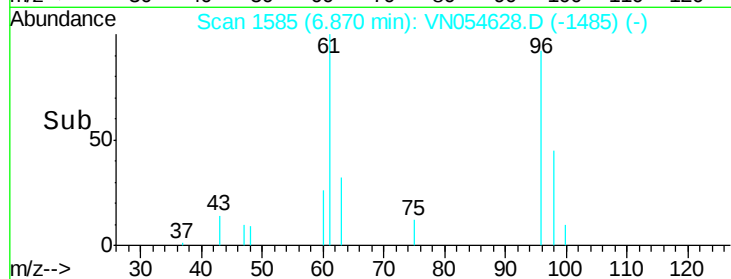
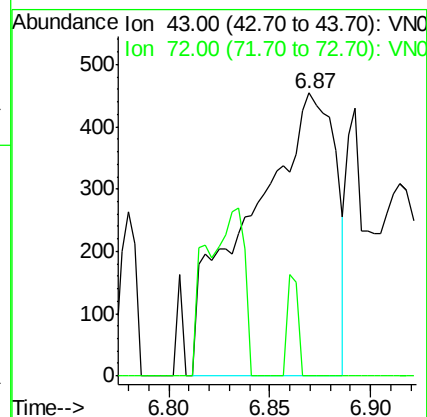
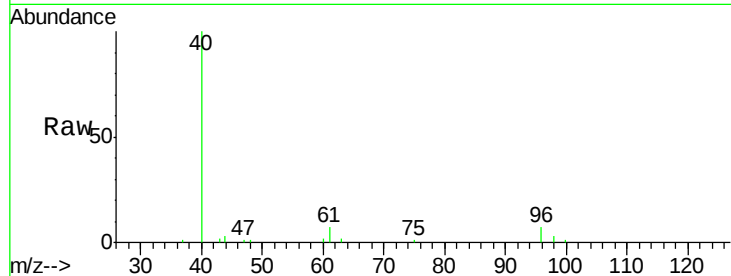
WP022SB441-190319-(23-25)ME

Tot Ion: 43 Resp: 1331

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#27

cis-1,2-Dichloroethene

Concen: 7.075 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

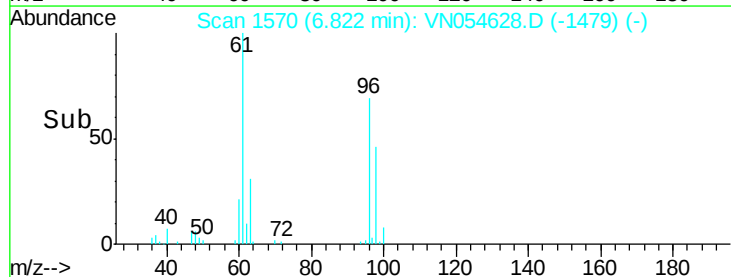
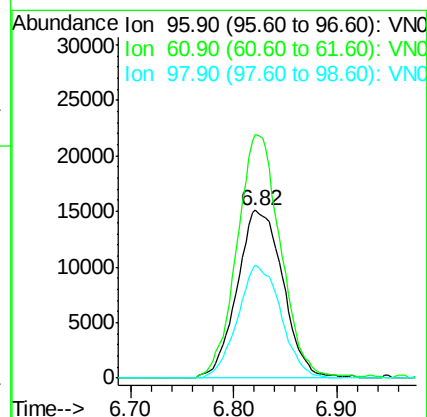
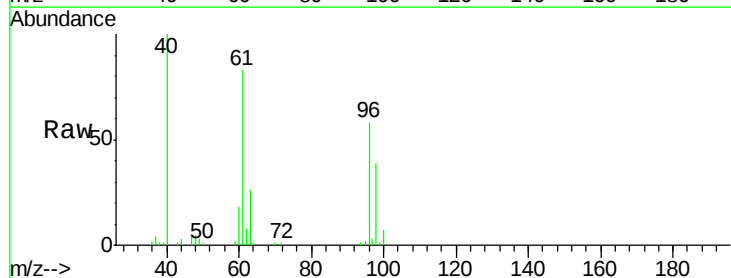
Tgt Ion: 96 Resp: 46796

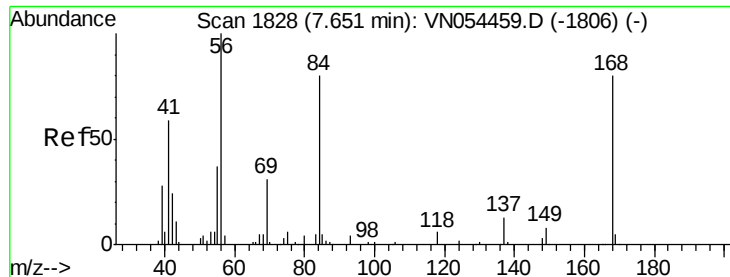
Ion Ratio Lower Upper

96 100

61 137.8 0.0 273.0

98 63.4 0.0 130.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

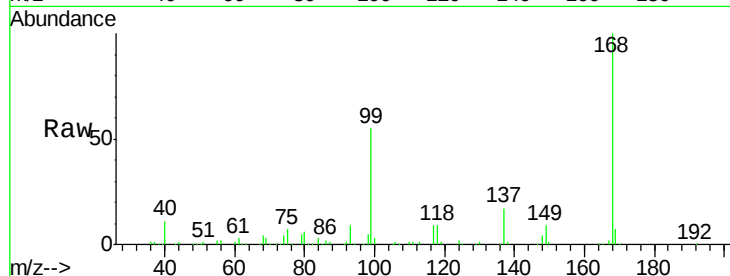
Tot Ion: 56 Resp: 11578

Ion Ratio Lower Upper

56 100

69 150.2 27.8 41.6#

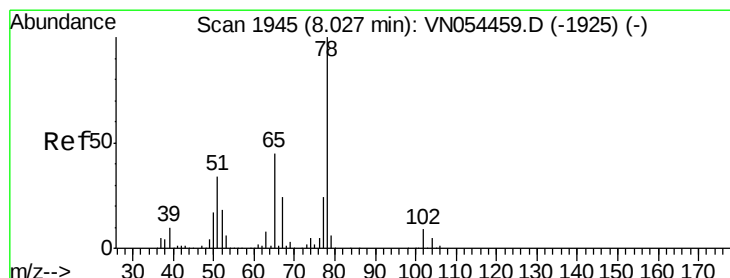
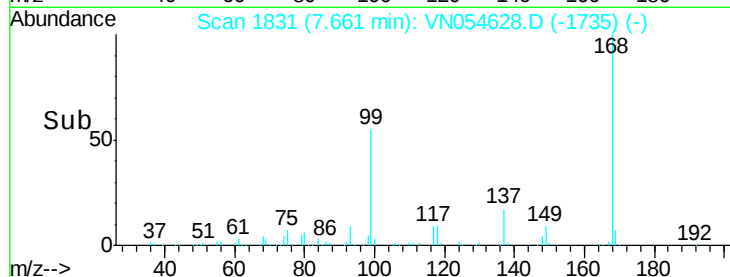
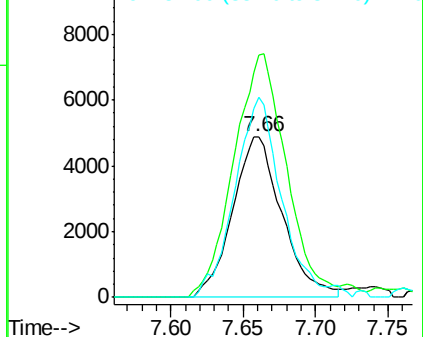
84 124.0 74.6 111.8#



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: 49.021 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN054628.D

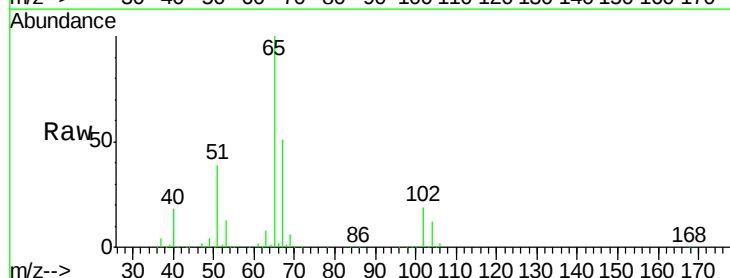
Acq: 24 Mar 2019 2:58

Tgt Ion: 65 Resp: 343299

Ion Ratio Lower Upper

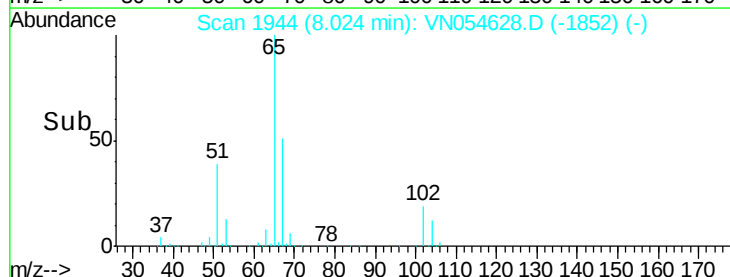
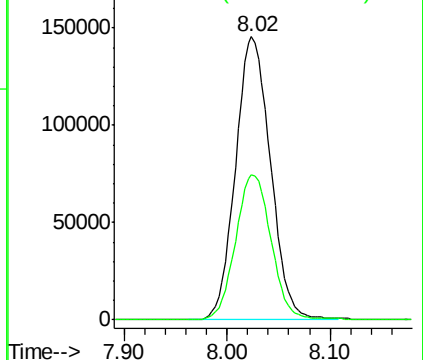
65 100

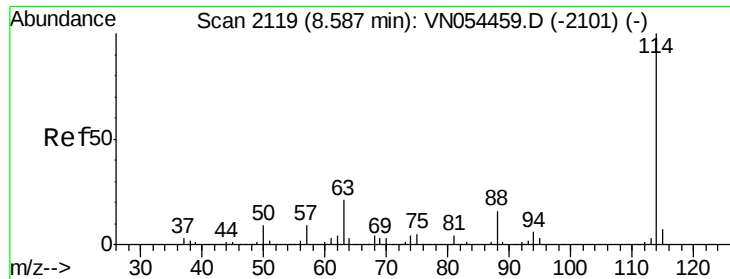
67 52.1 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

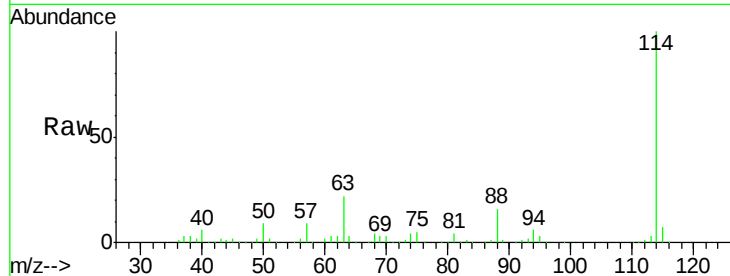




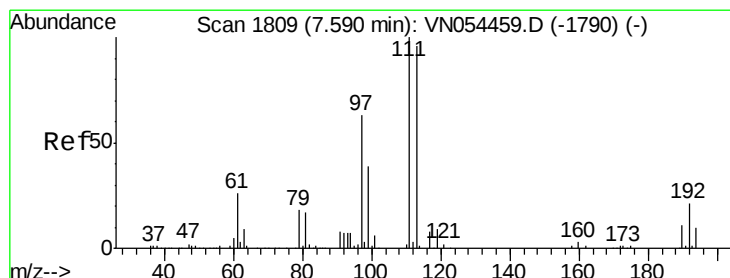
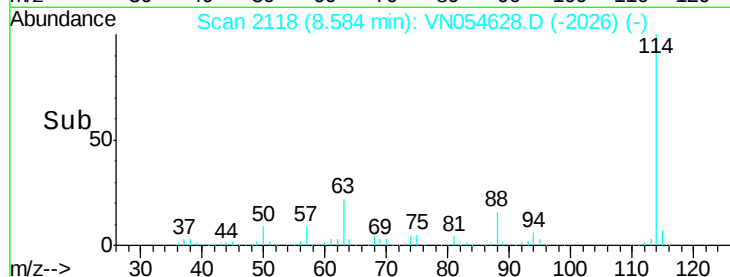
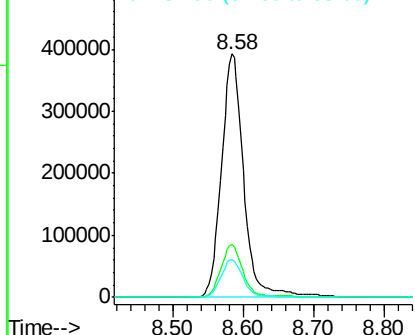
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Instrument :
MSVOA_N
ClientSampleId :
WP022SB441-190319-(23-25)ME

Tot Ion:114 Resp: 867788
Ion Ratio Lower Upper
114 100
63 21.5 0.0 35.2
88 15.6 0.0 30.2

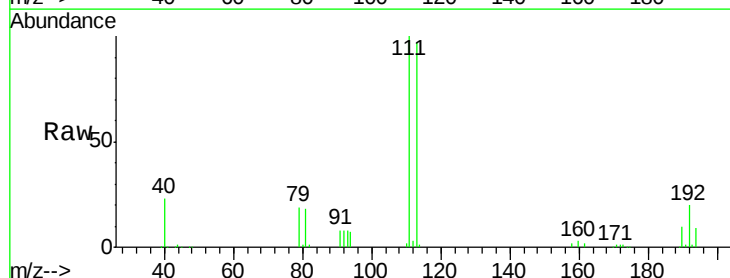


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

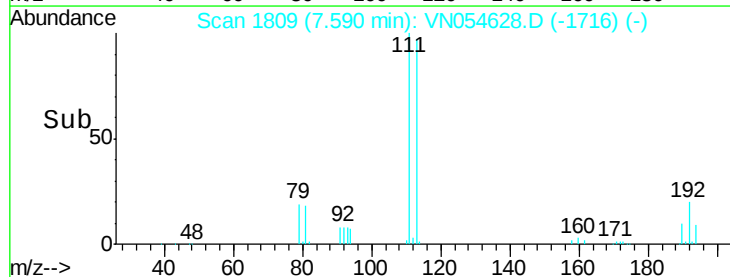
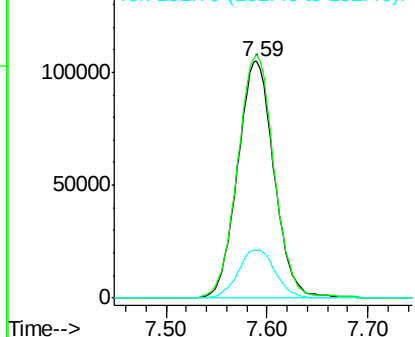


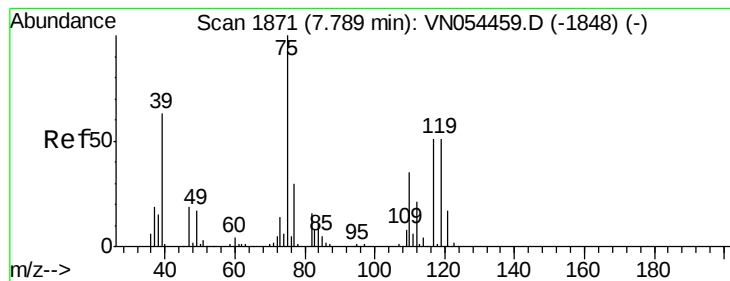
#35
Dibromofluoromethane
Concen: 46.965 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Tgt Ion:113 Resp: 262567
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.4
192 20.8 19.2 28.8



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: 5.071 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

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ClientSampleId :

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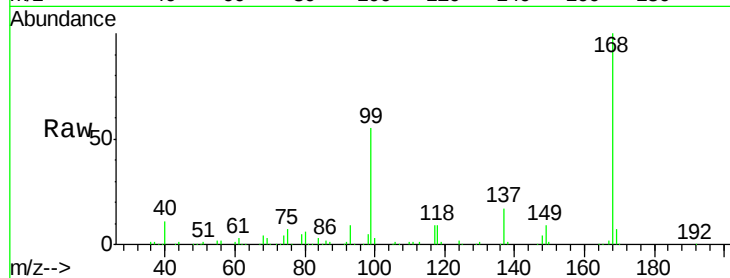
Tot Ion: 75 Resp: 41143

Ion Ratio Lower Upper

75 100

110 7.6 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

7.66

15000

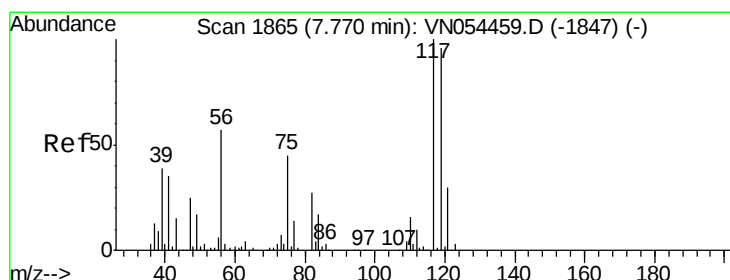
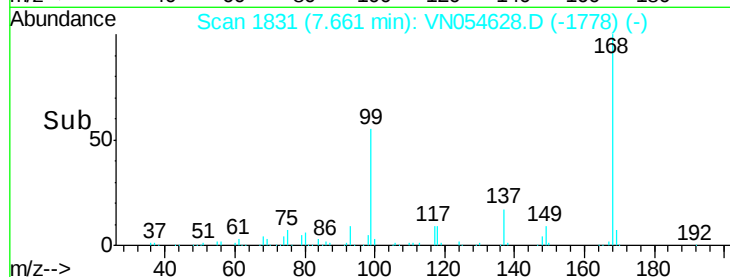
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 6.613 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

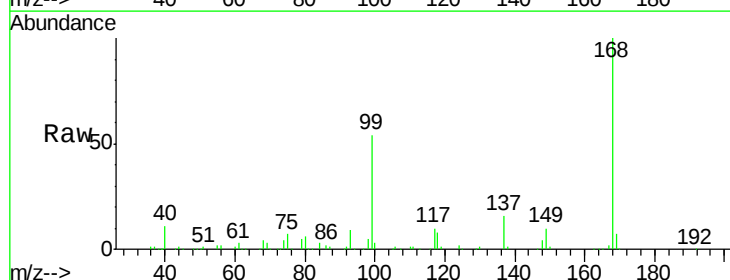
Tgt Ion: 117 Resp: 52140

Ion Ratio Lower Upper

117 100

119 5.5 76.3 114.5#

121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): VN0

Ion 118.80 (118.50 to 119.50): VN0

Ion 120.80 (120.50 to 121.50): VN0

7.66

25000

20000

15000

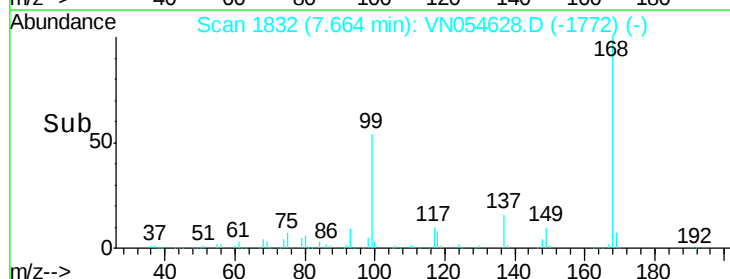
10000

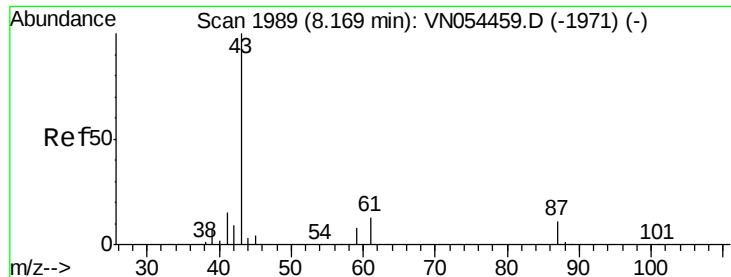
5000

0

7.60 7.70

Time-->





#43

Isopropyl Acetate

Concen: 0.663 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.07 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

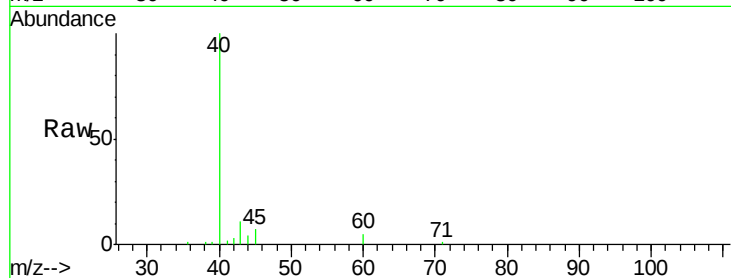
Tot Ion: 43 Resp: 6460

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

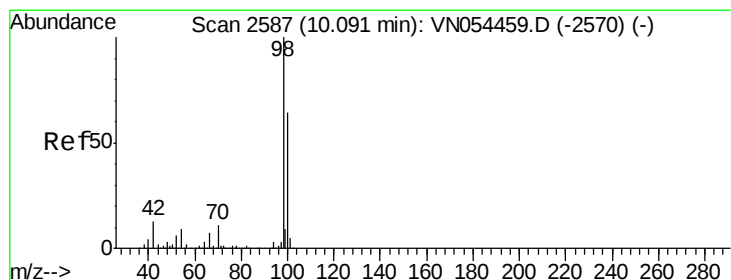
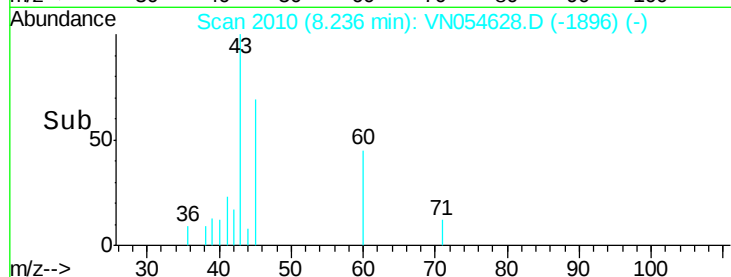
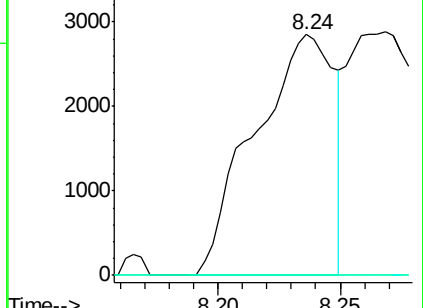
87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 50.158 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054628.D

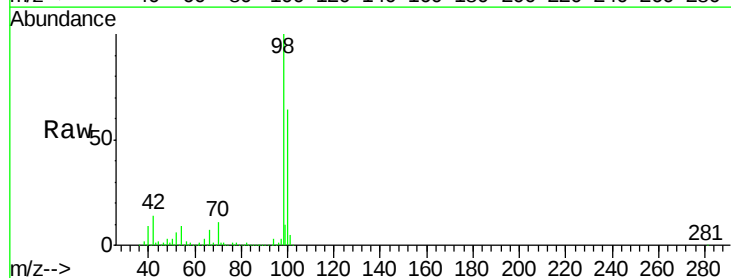
Acq: 24 Mar 2019 2:58

Tgt Ion: 98 Resp: 1054194

Ion Ratio Lower Upper

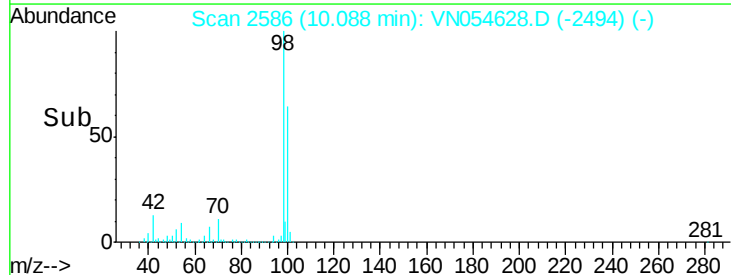
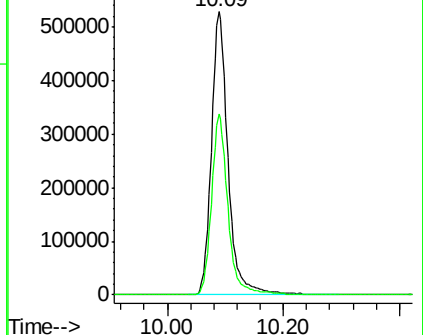
98 100

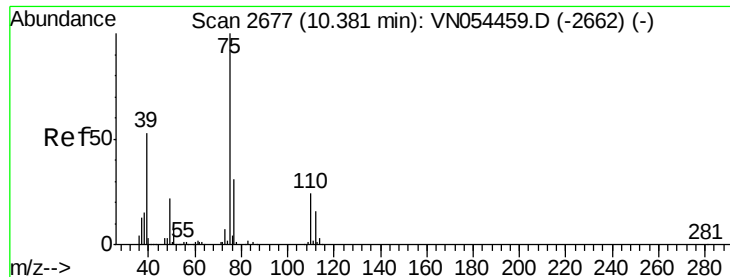
100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

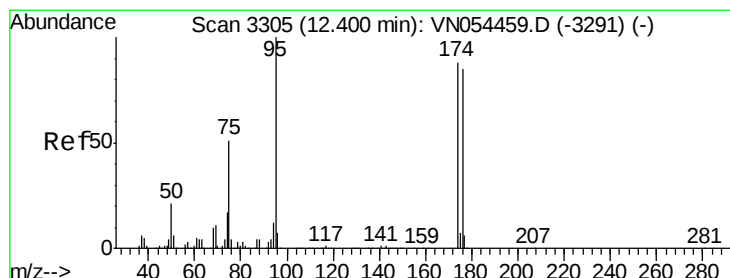
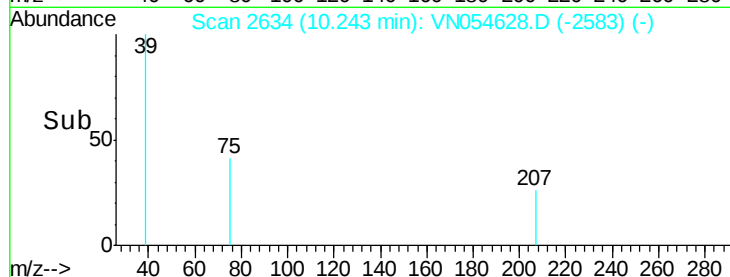
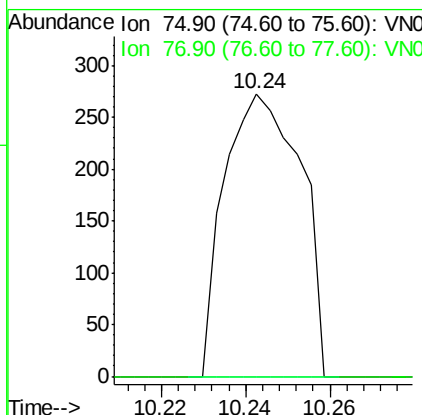
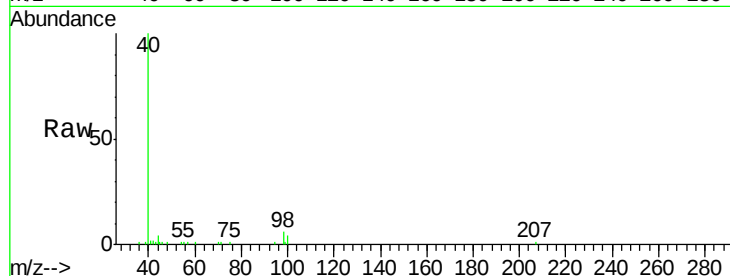




#53
t-1,3-Dichloropropene
Concen: 2.272 ug/l
RT: 10.24 min Scan# 2634
Delta R.T. -0.14 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

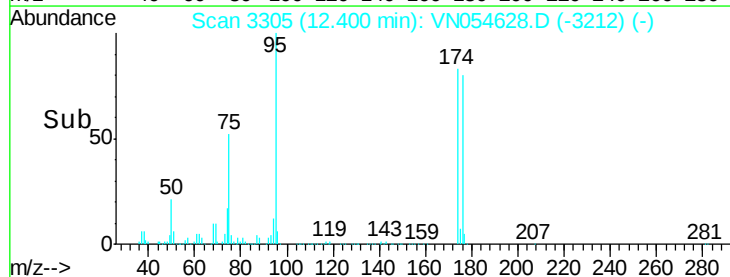
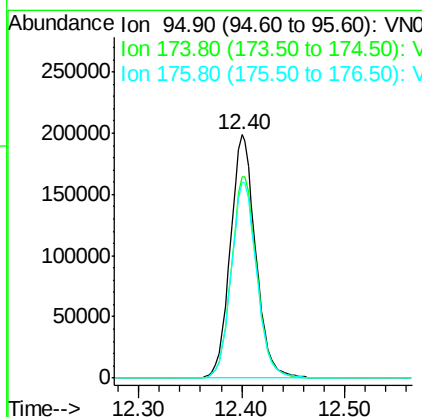
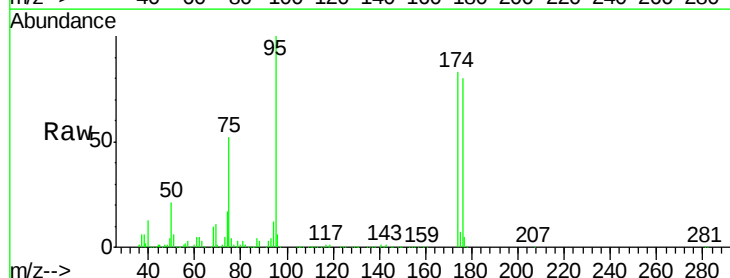
Instrument :
MSVOA_N
ClientSampleId :
WP022SB441-190319-(23-25)ME

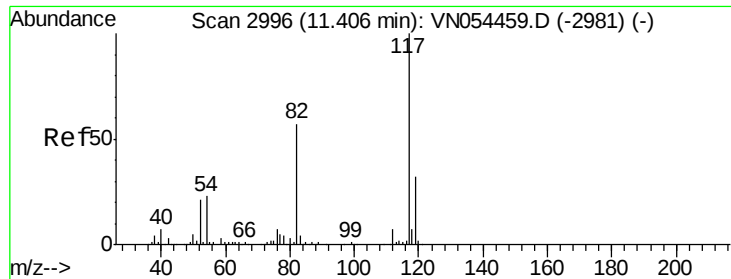
Tot Ion: 75 Resp: 343
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#



#62
4-Bromofluorobenzene
Concen: 47.270 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Tgt Ion: 95 Resp: 338072
Ion Ratio Lower Upper
95 100
174 83.8 0.0 191.0
176 81.3 0.0 187.4

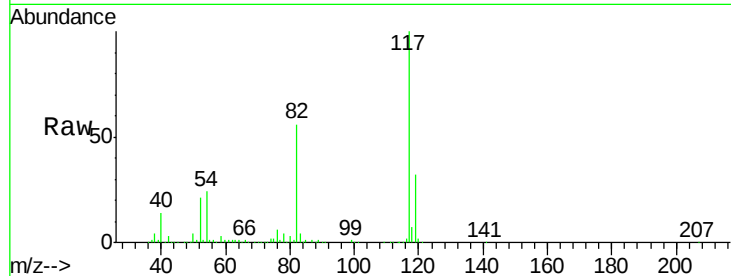




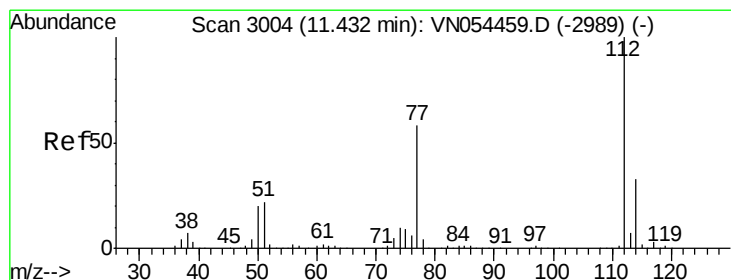
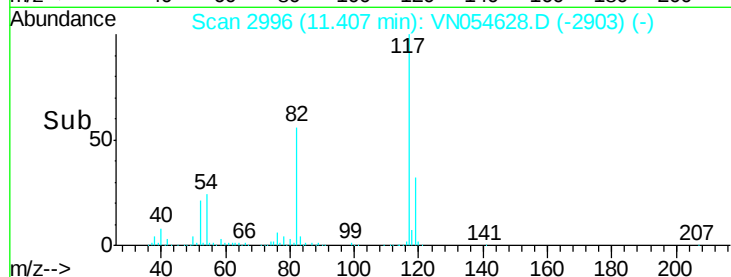
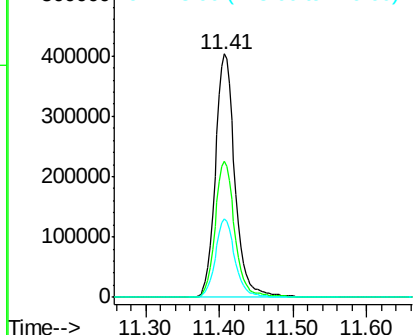
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Instrument :
MSVOA_N
ClientSampleId :
WP022SB441-190319-(23-25)ME

Tot Ion:117 Resp: 742037
Ion Ratio Lower Upper
117 100
82 55.7 40.0 60.0
119 32.2 25.8 38.6

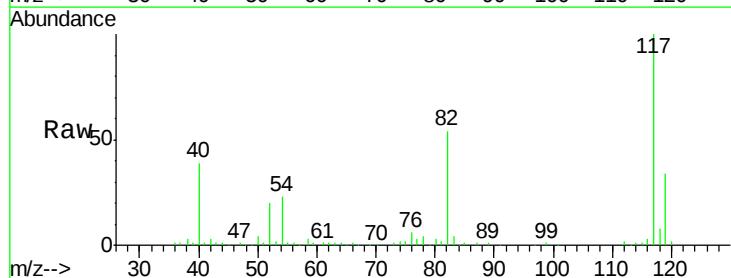


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

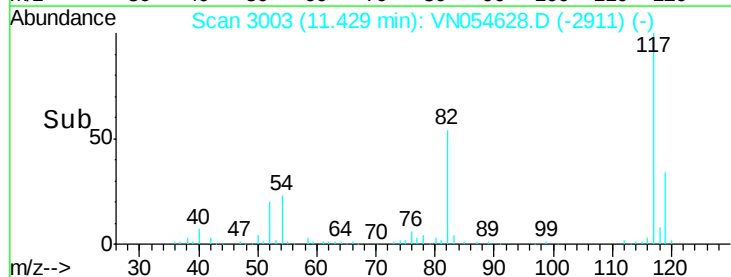
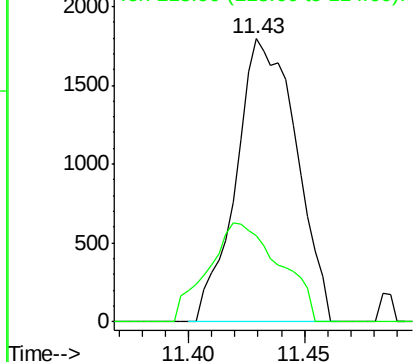


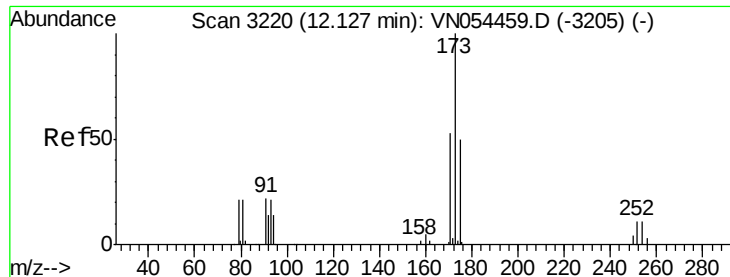
#65
Chlorobenzene
Concen: 0.215 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN054628.D
Acq: 24 Mar 2019 2:58

Tgt Ion:112 Resp: 3245
Ion Ratio Lower Upper
112 100
114 30.4 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 2.494 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

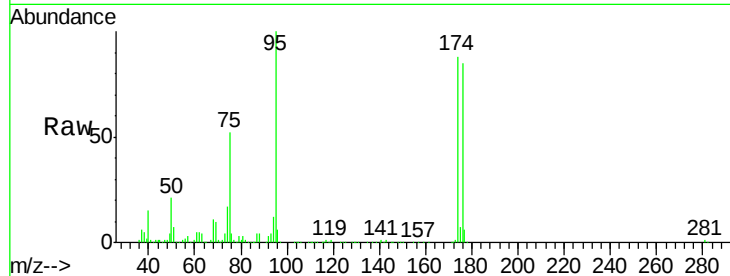
Tot Ion:173 Resp: 1071

Ion Ratio Lower Upper

173 100

175 1754.5 24.4 73.2#

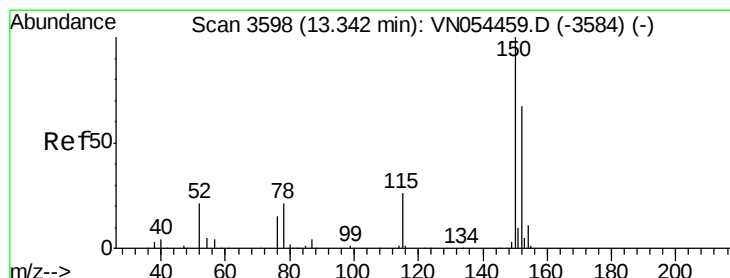
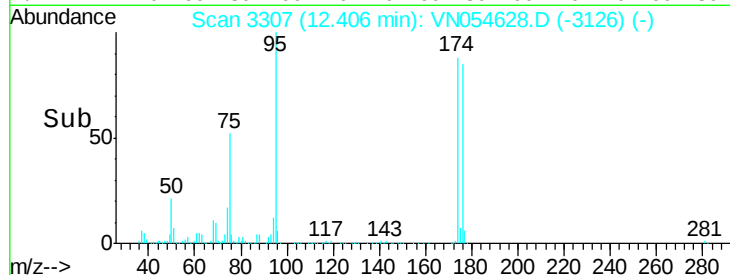
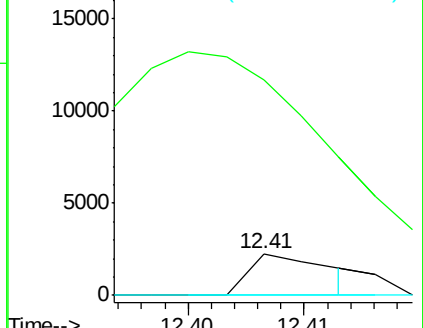
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

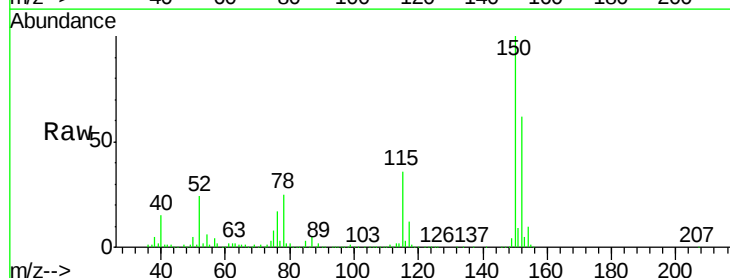
Tgt Ion:152 Resp: 301343

Ion Ratio Lower Upper

152 100

115 57.8 27.2 81.6

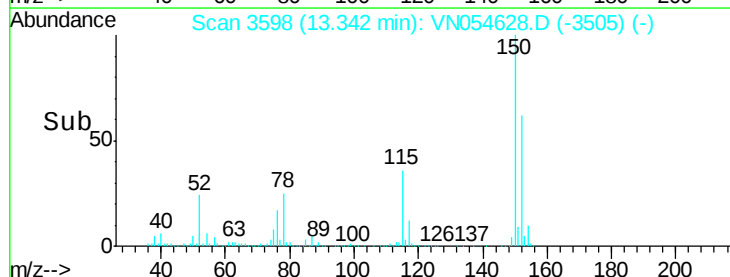
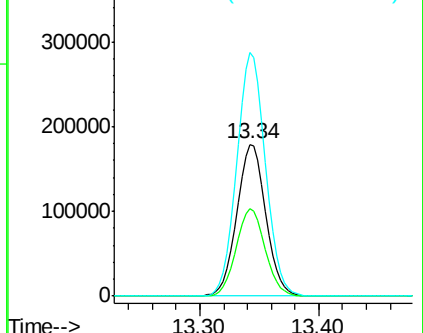
150 158.6 0.0 349.2

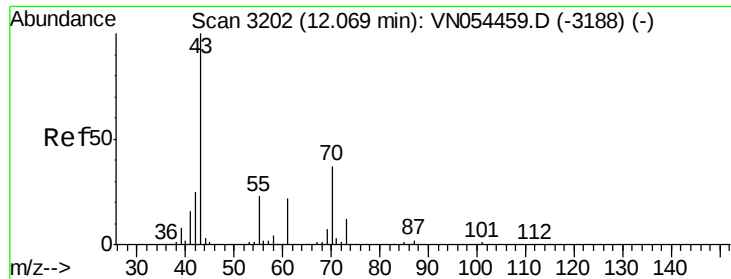


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.801 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

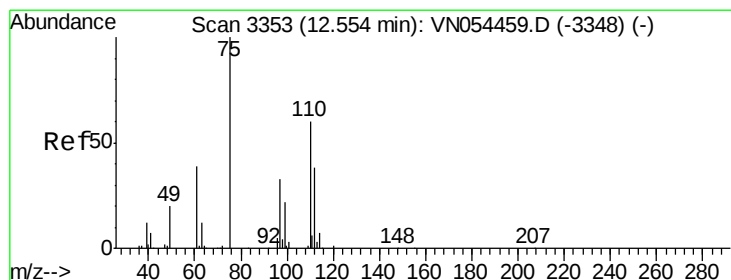
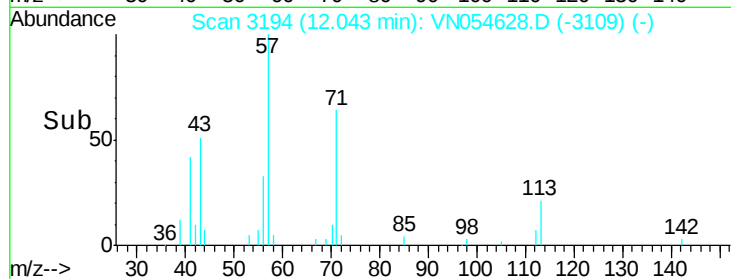
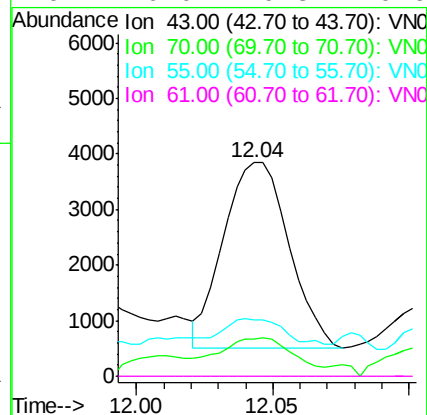
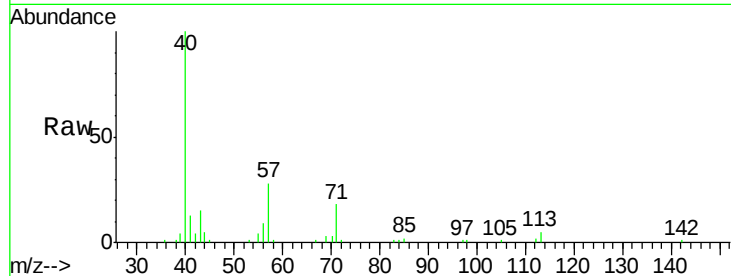
MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

Tot Ion: 43 Resp: 5595

Ion	Ratio	Lower	Upper
43	100		
70	15.8	35.4	53.0#
55	13.4	19.8	29.6#
61	0.0	19.8	29.6#



#76

1,2,3-Trichloropropane

Concen: 36.736 ug/l

RT: 12.40 min Scan# 3305

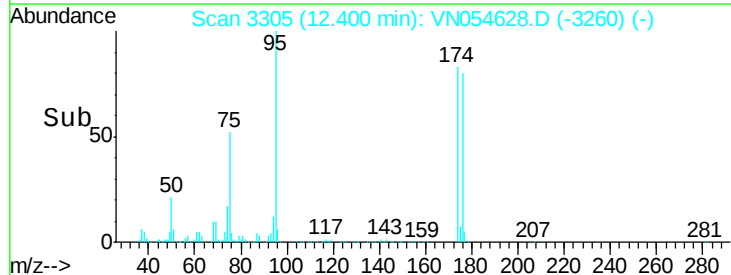
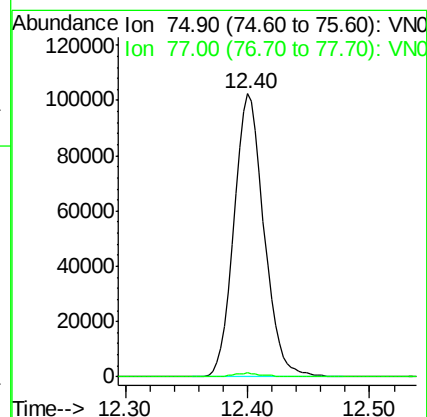
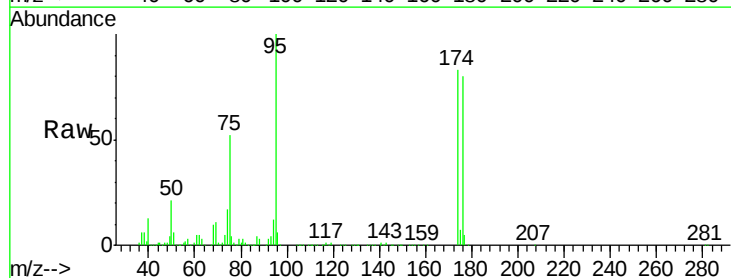
Delta R.T. -0.15 min

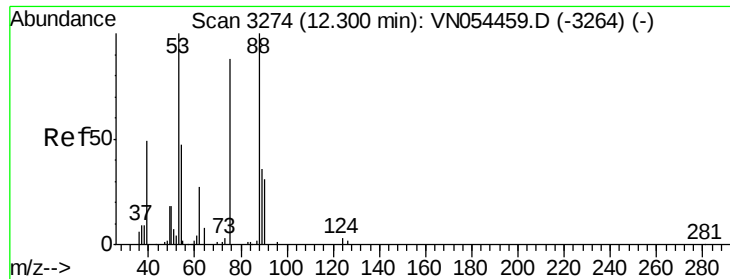
Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Tgt Ion: 75 Resp: 175666

Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 121.780 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

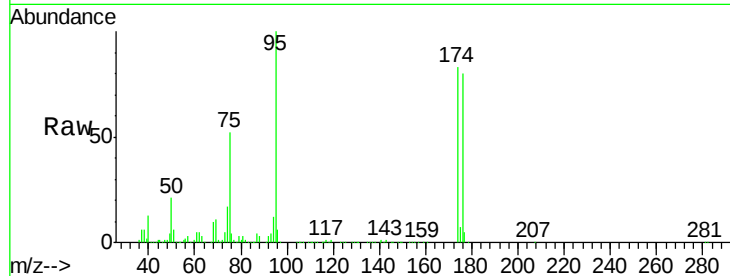
Tot Ion: 75 Resp: 175666

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

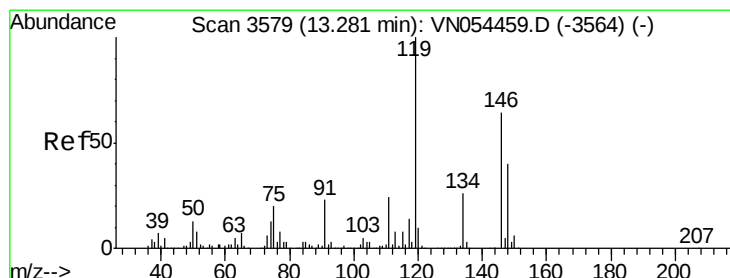
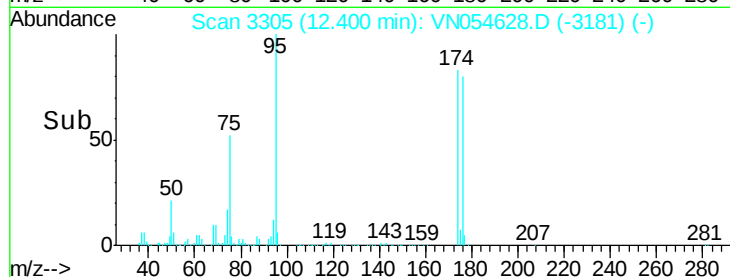
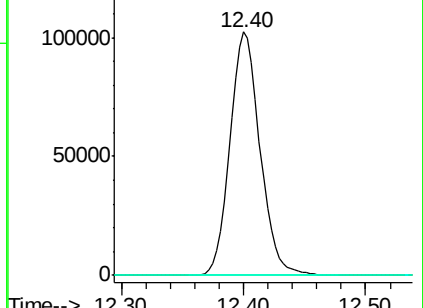
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 0.771 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

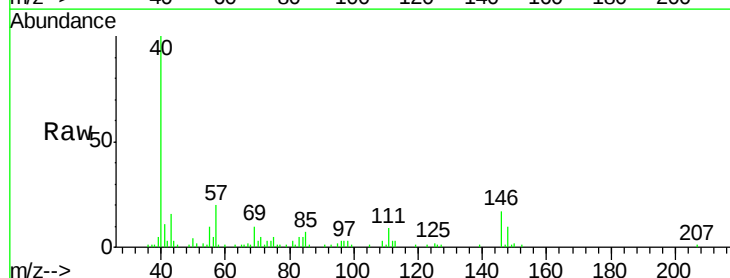
Tgt Ion:146 Resp: 7696

Ion Ratio Lower Upper

146 100

111 59.2 18.8 56.3#

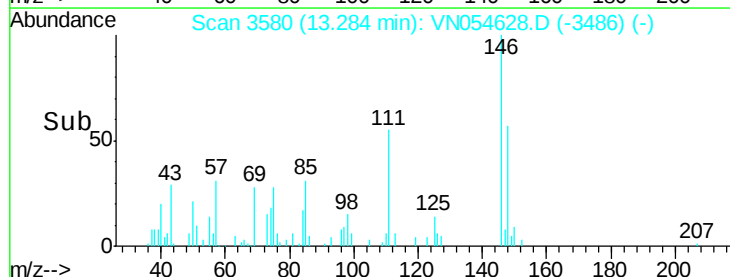
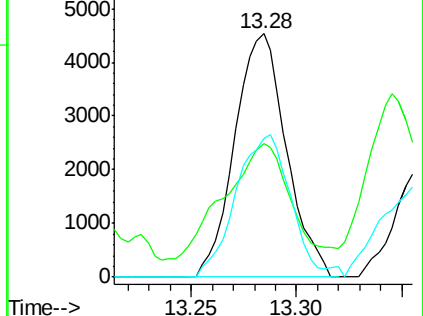
148 62.2 32.2 96.6

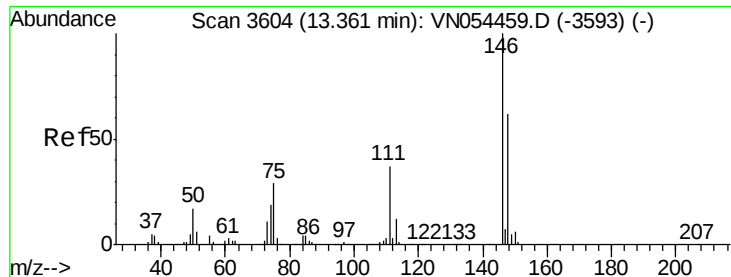


Abundance Ion 145.90 (145.60 to 146.60): VN054459.D (-3564) (-)

Ion 110.90 (110.60 to 111.60): VN054459.D (-3564) (-)

Ion 147.90 (147.60 to 148.60): VN054459.D (-3564) (-)





#88

1,4-Dichlorobenzene

Concen: 0.444 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

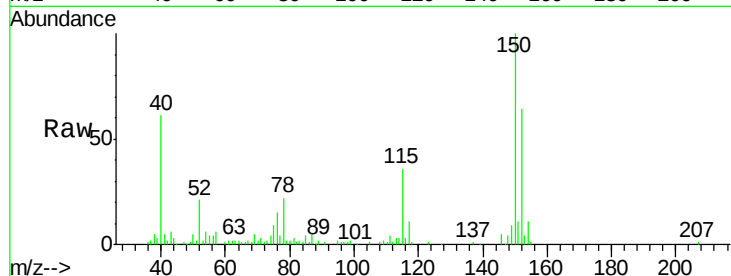
Tot Ion:146 Resp: 4316

Ion Ratio Lower Upper

146 100

111 148.0 18.1 54.1#

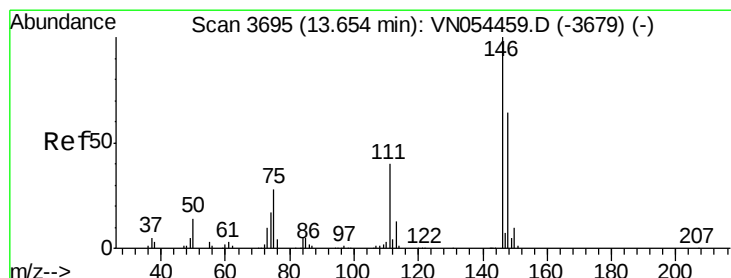
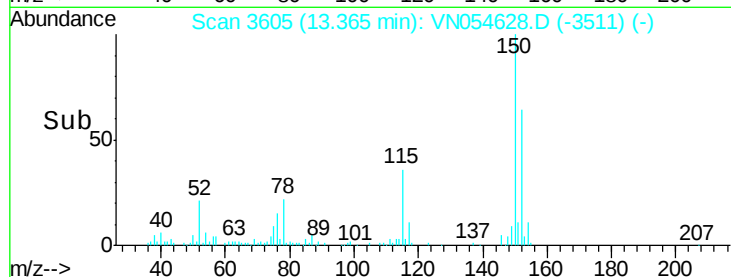
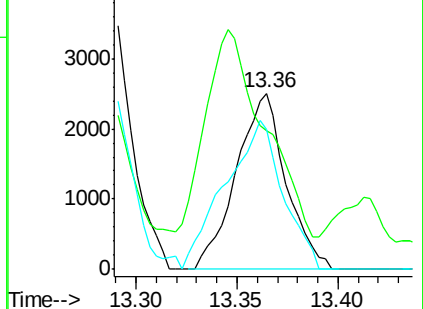
148 98.0 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.940 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

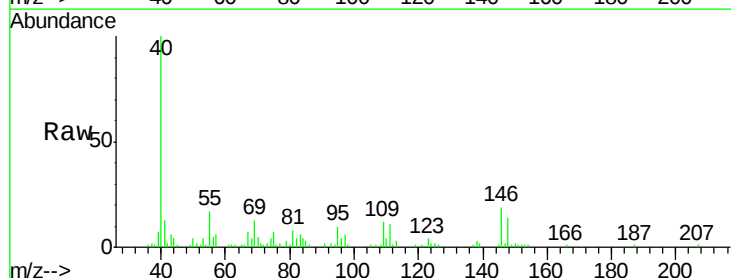
Tgt Ion:146 Resp: 9084

Ion Ratio Lower Upper

146 100

111 56.7 19.1 57.3

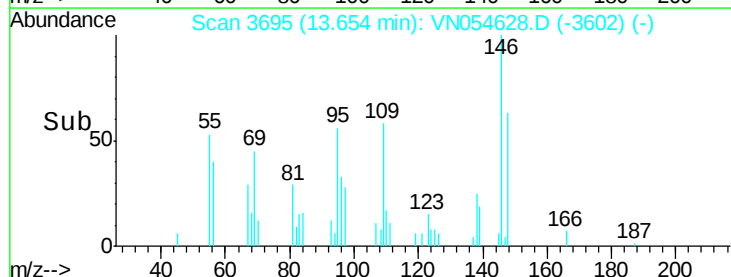
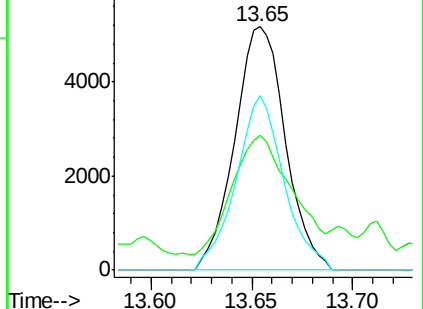
148 67.7 32.4 97.0

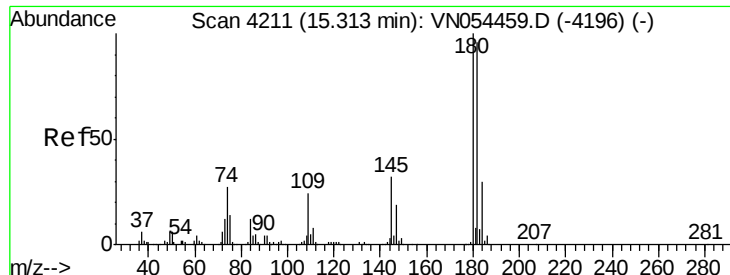


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#96

1,2,3-Trichlorobenzene

Concen: 0.225 ug/l

RT: 15.33 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN054628.D

Acq: 24 Mar 2019 2:58

Instrument :

MSVOA_N

ClientSampleId :

WP022SB441-190319-(23-25)ME

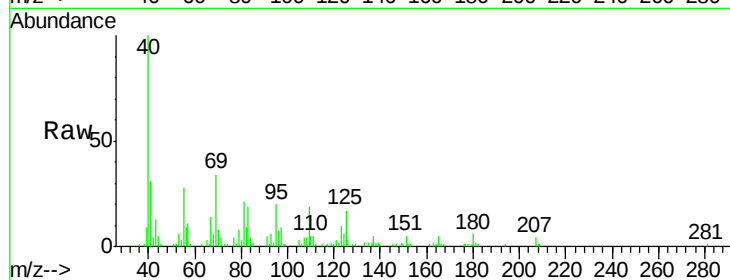
Tot Ion:180 Resp: 1081

Ion Ratio Lower Upper

180 100

182 74.2 47.5 142.6

145 38.9 14.8 44.3



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

