

Data File : VN059322.D
Acq On : 20 Nov 2019 12:52
Operator : JC/SP
Sample : VSTDICC100
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Nov 20 15:09:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 20 15:04:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	411806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	658453	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	589256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283930	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	498615	98.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	197.00%	
35) Dibromofluoromethane	7.57	113	396969	100.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.94%	
50) Toluene-d8	10.08	98	1588239	102.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.12%	
62) 4-Bromofluorobenzene	12.40	95	571941	102.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	204.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	531907	128.198	ug/l	100
3) Chloromethane	2.04	50	630400	111.772	ug/l	100
4) Vinyl Chloride	2.17	62	679065	124.186	ug/l	100
5) Bromomethane	2.53	94	358226	113.842	ug/l	99
6) Chloroethane	2.68	64	345901	106.935	ug/l	100
7) Trichlorofluoromethane	3.00	101	684411	104.642	ug/l	100
8) Diethyl Ether	3.39	74	295959	111.365	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	428227	108.590	ug/l	99
10) Methyl Iodide	3.93	142	602645	123.460	ug/l	98
11) Tert butyl alcohol	4.76	59	520326	539.345	ug/l	99
12) 1,1-Dichloroethene	3.71	96	436484	113.623	ug/l	98
13) Acrolein	3.58	56	470989	946.905	ug/l	99
14) Allyl chloride	4.29	41	840127	106.467	ug/l	97
15) Acrylonitrile	4.95	53	1354808	564.292	ug/l	99
16) Acetone	3.79	43	1110173	421.731	ug/l	98
17) Carbon Disulfide	4.03	76	1373126	115.148	ug/l	100
18) Methyl Acetate	4.30	43	756928	121.142	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	1481687	112.030	ug/l	100
20) Methylene Chloride	4.52	84	483804	105.494	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	467683	113.420	ug/l	95
22) Diisopropyl ether	5.92	45	1601535	107.451	ug/l	97
23) Vinyl Acetate	5.87	43	6290250	544.538	ug/l	96
24) 1,1-Dichloroethane	5.82	63	891903	107.139	ug/l	99
25) 2-Butanone	6.81	43	1822985	525.450	ug/l	98
26) 2,2-Dichloropropane	6.80	77	745622	102.431	ug/l	99
27) cis-1,2-Dichloroethene	6.80	96	527675	110.302	ug/l	98
28) Bromochloromethane	7.17	49	353000	140.943	ug/l	97
29) Tetrahydrofuran	7.19	42	1244368	564.483	ug/l	97
30) Chloroform	7.35	83	848786	106.288	ug/l	100
31) Cyclohexane	7.63	56	842698	106.929	ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	730671	108.828	ug/l	98
36) 1,1-Dichloropropene	7.77	75	679979	110.483	ug/l	100
37) Ethyl Acetate	6.91	43	740259	108.117	ug/l	98
38) Carbon Tetrachloride	7.75	117	650209	106.143	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	833517	116.691	ug/l	98
40) Benzene	8.02	78	1991778	107.468	ug/l	100
41) Methacrylonitrile	7.18	41	1069764	359.307	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	661414	104.052	ug/l	99
43) Isopropyl Acetate	8.15	43	1179701	108.075	ug/l	99
44) Trichloroethene	8.82	130	500276	109.808	ug/l	99
45) 1,2-Dichloropropane	9.10	63	538914	107.053	ug/l	100
46) Dibromomethane	9.19	93	332200	105.898	ug/l	99
47) Bromodichloromethane	9.39	83	672399	107.343	ug/l	97
48) Methyl methacrylate	9.19	41	545072	111.638	ug/l	97
49) 1,4-Dioxane	9.19	88	164052	1890.670	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	3390357	548.930	ug/l	95
52) Toluene	10.15	92	1217556	109.605	ug/l	97
53) t-1,3-Dichloropropene	10.37	75	793646	109.665	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	864770	111.086	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	472014	104.992	ug/l	100
56) Ethyl methacrylate	10.42	69	795622	119.225	ug/l	97
57) 1,3-Dichloropropane	10.70	76	827615	106.960	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1405716	561.839	ug/l	99
59) 2-Hexanone	10.75	43	2595922	547.594	ug/l	95
60) Dibromochloromethane	10.90	129	521356	109.683	ug/l	99
61) 1,2-Dibromoethane	11.00	107	502851	110.490	ug/l	100
64) Tetrachloroethene	10.63	164	431794	107.764	ug/l	99
65) Chlorobenzene	11.43	112	1261175	109.792	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	468354	108.692	ug/l	99
67) Ethyl Benzene	11.51	91	2271451	111.453	ug/l	96
68) m/p-Xylenes	11.62	106	1734520	227.203	ug/l	93
69) o-Xylene	11.95	106	826325	112.003	ug/l	96
70) Styrene	11.96	104	1386358	119.481	ug/l	99
71) Bromoform	12.13	173	384937	114.848	ug/l #	100
73) Isopropylbenzene	12.25	105	2183805	105.737	ug/l	98
74) N-amyl acetate	12.07	43	981950	112.203	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	721406	102.569	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	979017	151.454	ug/l #	100
77) Bromobenzene	12.53	156	530584	102.253	ug/l	100
78) n-propylbenzene	12.59	91	2545703	107.651	ug/l	98
79) 2-Chlorotoluene	12.68	91	1514020	103.205	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1855358	106.017	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	275957	112.757	ug/l	96
82) 4-Chlorotoluene	12.77	91	1561471	106.124	ug/l	98
83) tert-Butylbenzene	12.99	119	1584265	104.827	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1845838	109.017	ug/l	100
85) sec-Butylbenzene	13.17	105	2129244	108.330	ug/l	99
86) p-Isopropyltoluene	13.29	119	1938908	111.721	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	954248	107.393	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	948373	106.675	ug/l	99
89) n-Butylbenzene	13.62	91	1773891	116.782	ug/l	99
90) Hexachloroethane	13.88	117	358471	102.864	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	922135	105.497	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	157108	98.971	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112019\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	612304	130.767	ug/l	99
94) Hexachlorobutadiene	15.01	225	319355	105.962	ug/l	100
95) Naphthalene	15.13	128	1739655	135.271	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	601815	122.856	ug/l	99

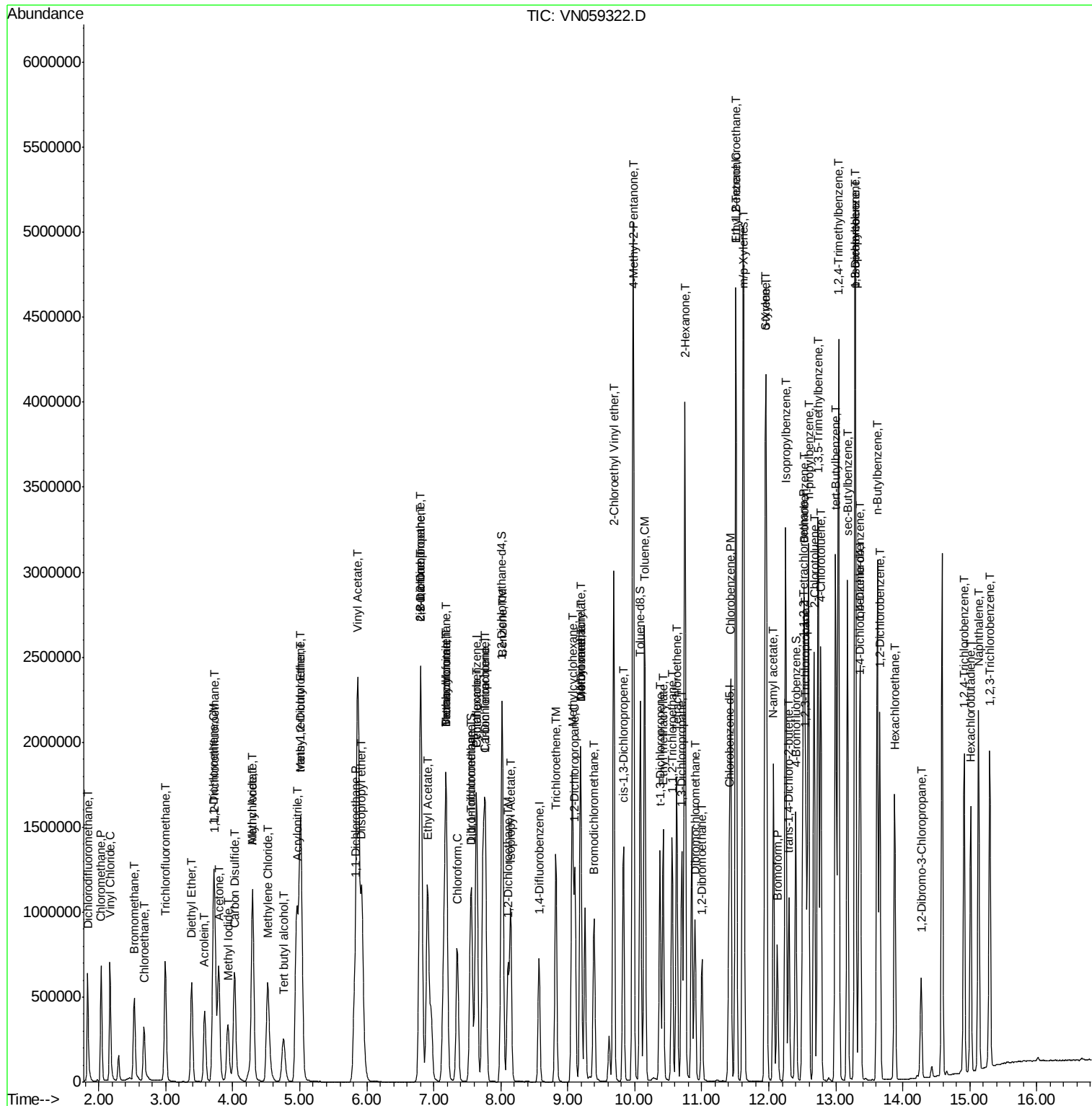
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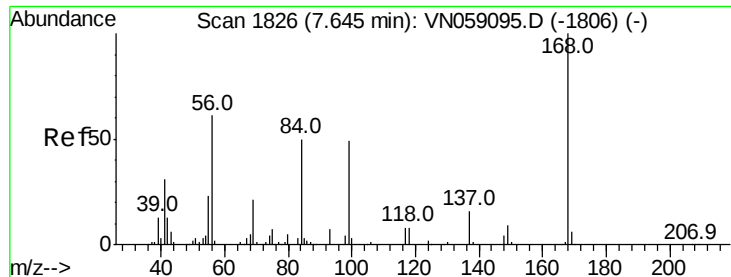
Data File : VN059322.D

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Acq On       : 20 Nov 2019   12:52
Operator    : JC/SP
Sample      : VSTDICC100
Misc        : 5.00mL/MSV0A_N/WATER
ALS Vial     : 7      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
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Quant Time: Nov 20 15:09:31 2019
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

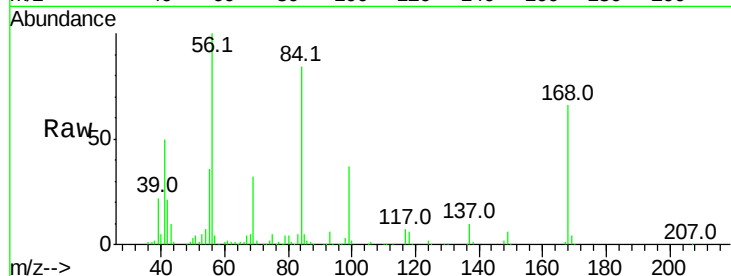
VSTDIC100

Tgt Ion:168 Resp: 411806

Ion Ratio Lower Upper

168 100

99 55.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

150000

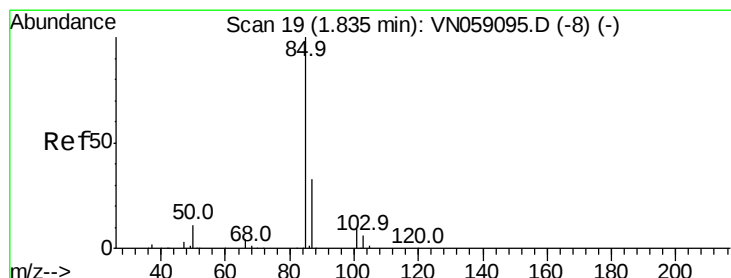
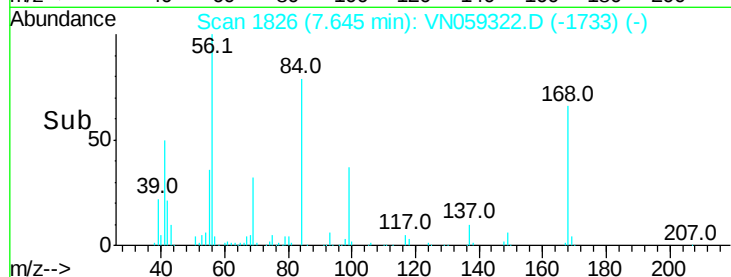
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 128.198 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059322.D

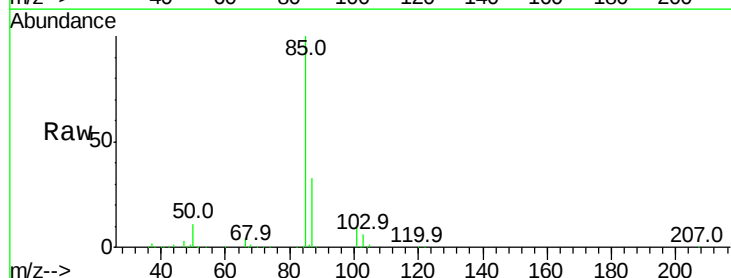
Acq: 20 Nov 2019 12:52

Tgt Ion: 85 Resp: 531907

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

400000

300000

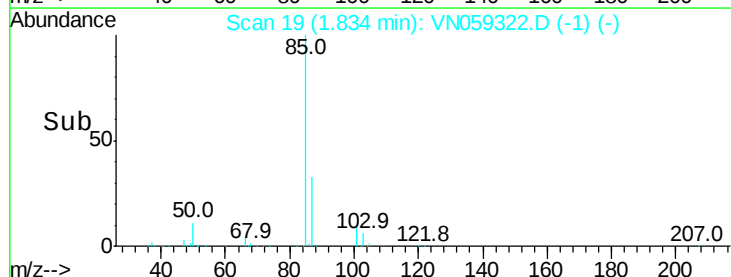
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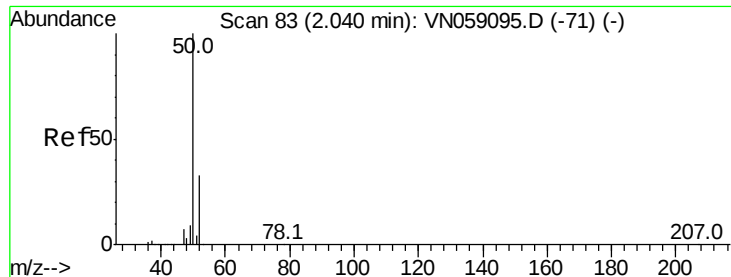
100000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 111.772 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

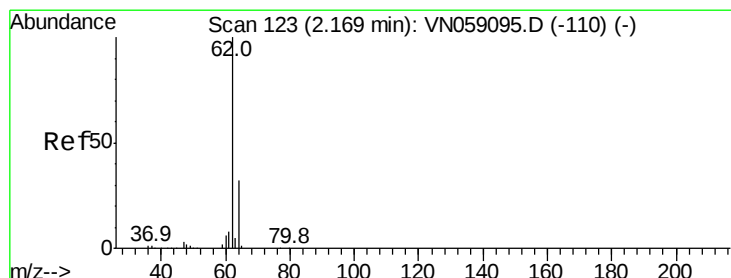
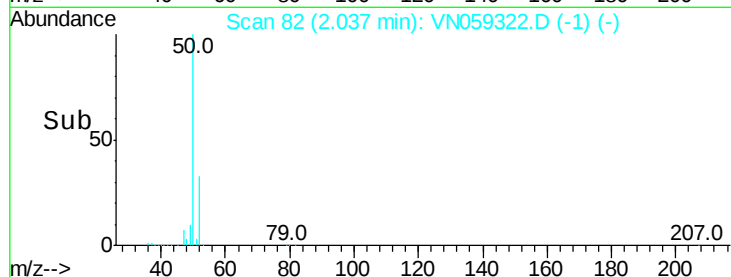
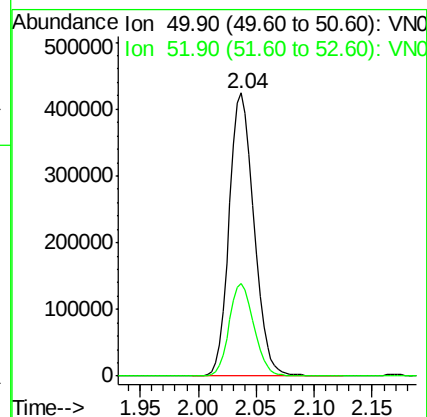
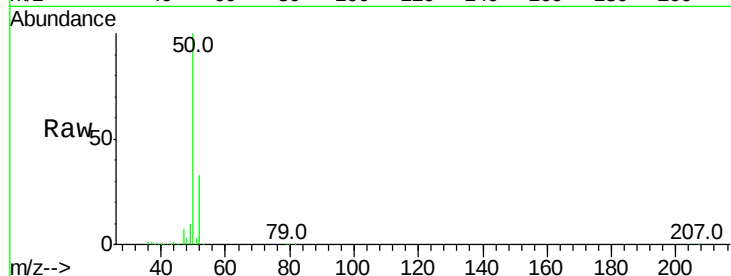
VSTDIC100

Tgt Ion: 50 Resp: 630400

Ion Ratio Lower Upper

50 100

52 32.7 26.0 39.0



#4

Vinyl Chloride

Concen: 124.186 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059322.D

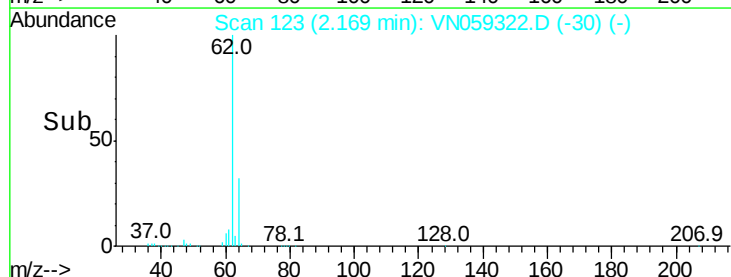
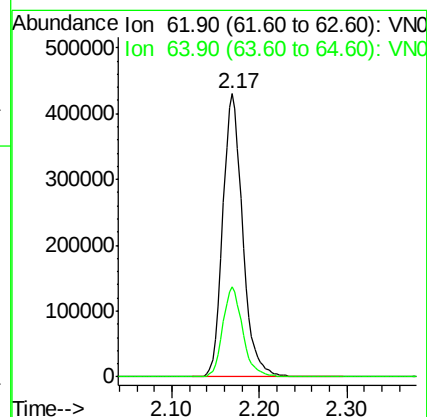
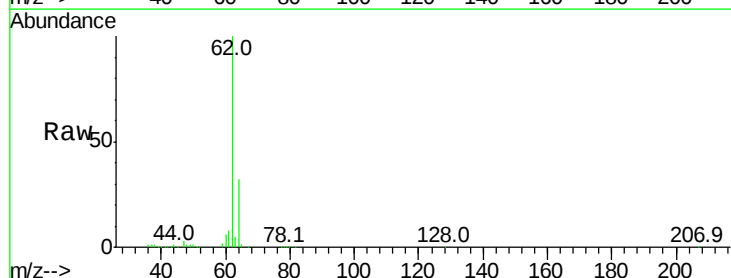
Acq: 20 Nov 2019 12:52

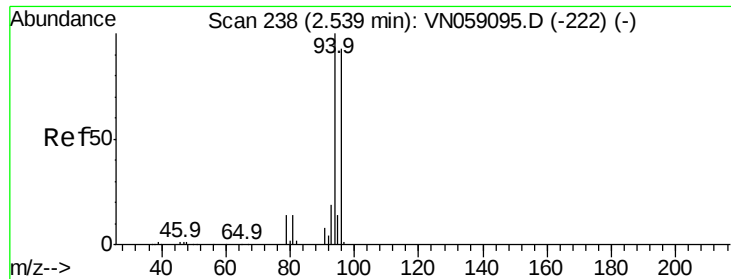
Tgt Ion: 62 Resp: 679065

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2





#5

Bromomethane

Concen: 113.842 ug/l

RT: 2.53 min Scan# 235

Delta R.T. -0.01 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

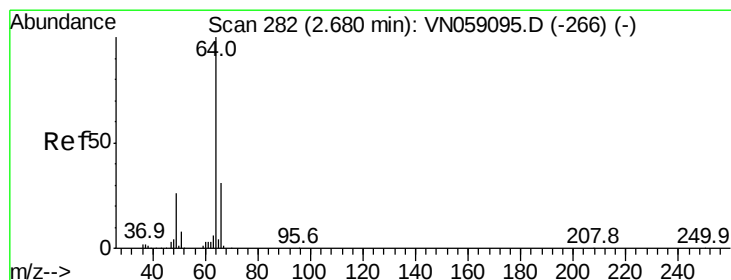
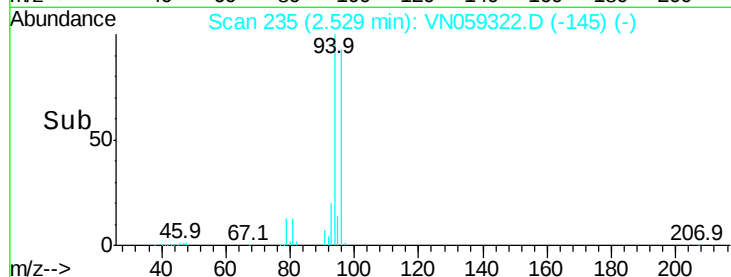
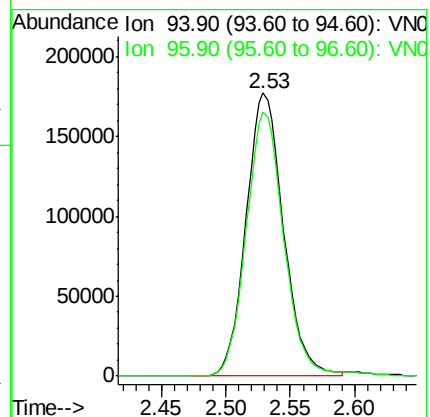
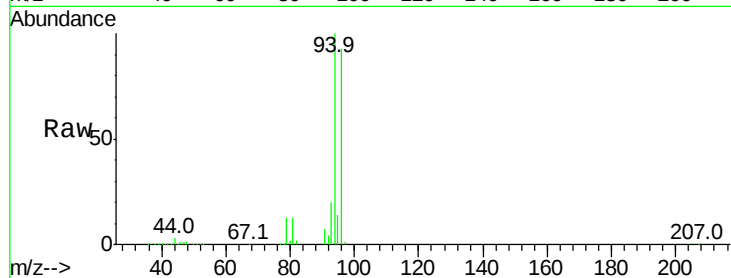
VSTDIC100

Tgt Ion: 94 Resp: 358226

Ion Ratio Lower Upper

94 100

96 93.4 74.2 111.2



#6

Chloroethane

Concen: 106.935 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.00 min

Lab File: VN059322.D

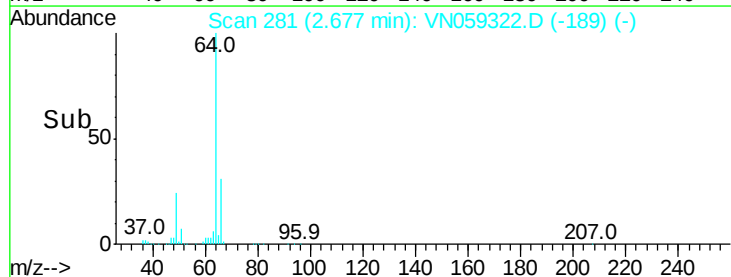
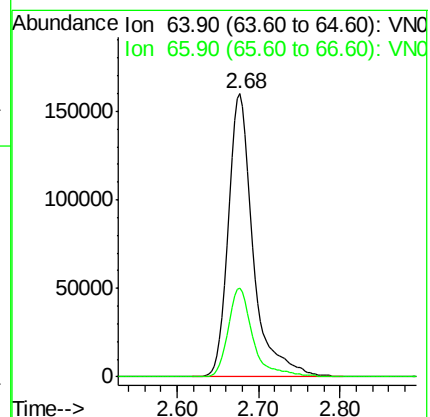
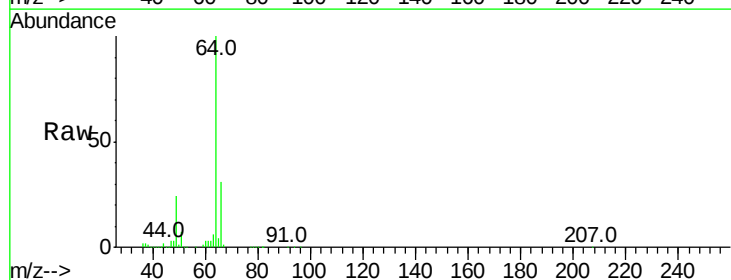
Acq: 20 Nov 2019 12:52

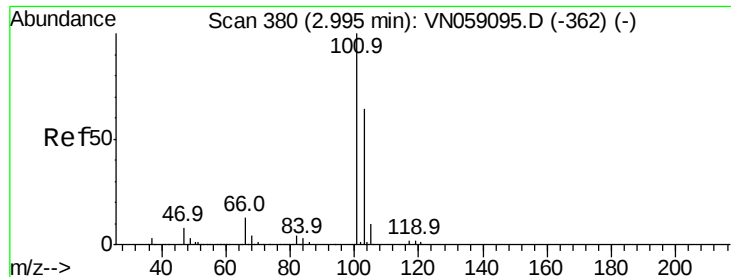
Tgt Ion: 64 Resp: 345901

Ion Ratio Lower Upper

64 100

66 31.3 25.2 37.8



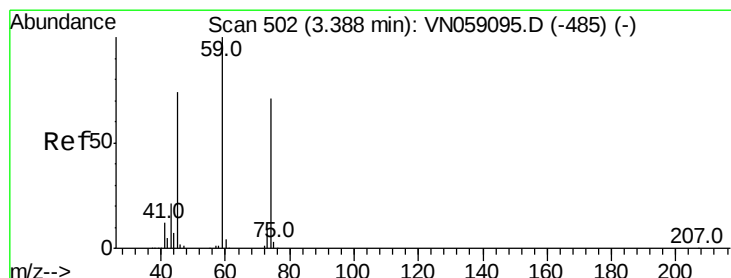
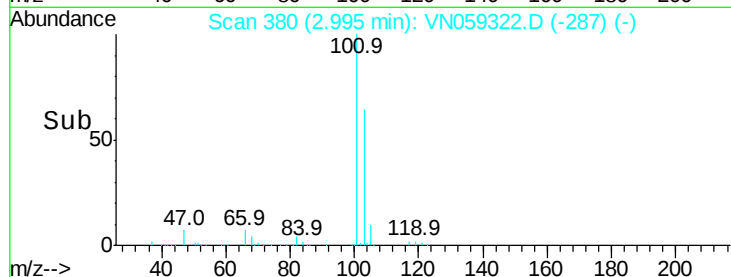
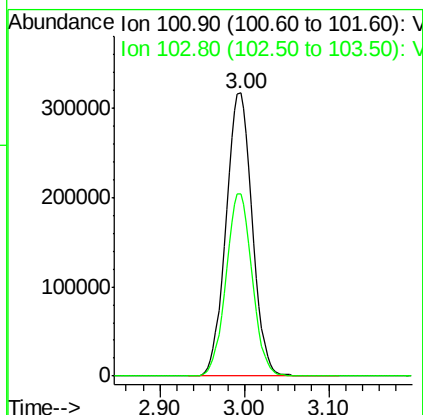
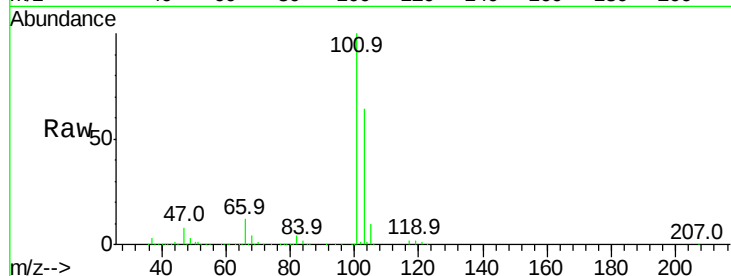


#7

Trichlorofluoromethane
Concen: 104.642 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Instrument :
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ClientSampleId :
VSTDIC100

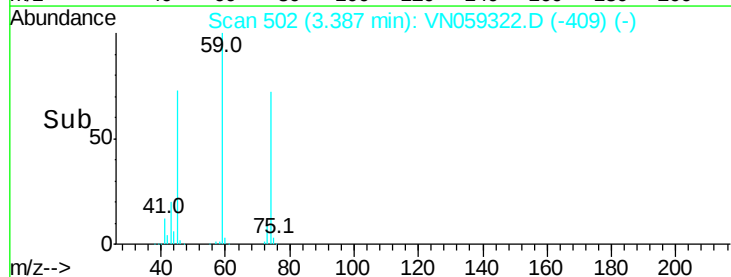
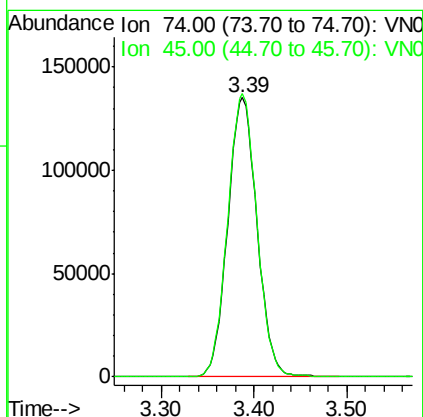
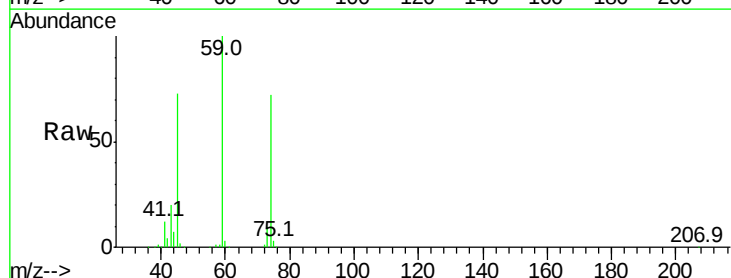
Tgt Ion:101 Resp: 684411
Ion Ratio Lower Upper
101 100
103 64.4 51.2 76.8

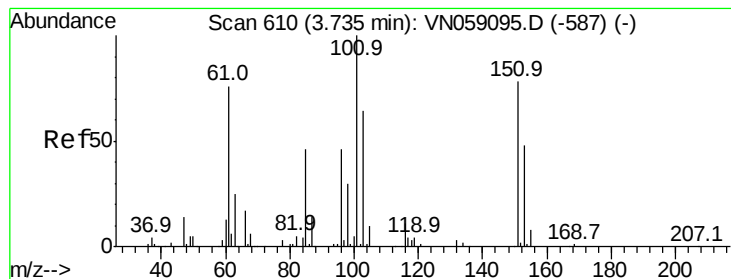


#8

Diethyl Ether
Concen: 111.365 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Tgt Ion: 74 Resp: 295959
Ion Ratio Lower Upper
74 100
45 101.4 51.6 154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 108.590 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

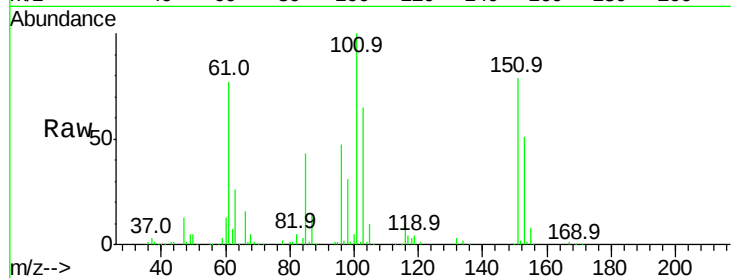
Tgt Ion:101 Resp: 428227

Ion Ratio Lower Upper

101 100

85 43.6 35.5 53.3

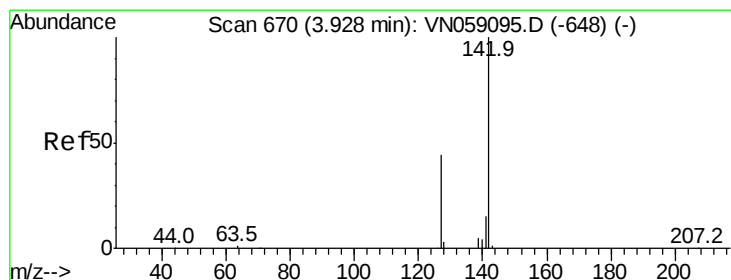
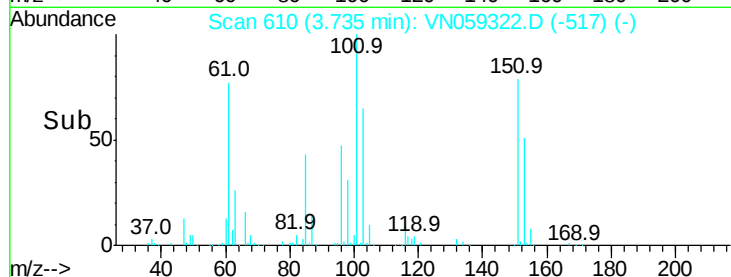
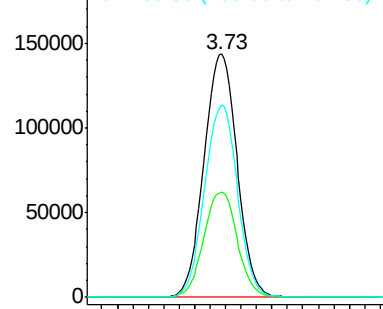
151 78.5 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 123.460 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

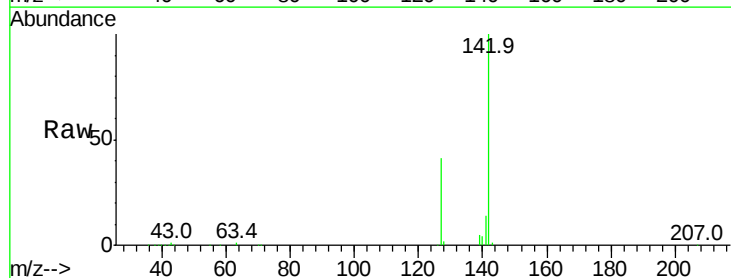
Tgt Ion:142 Resp: 602645

Ion Ratio Lower Upper

142 100

127 41.4 34.2 51.2

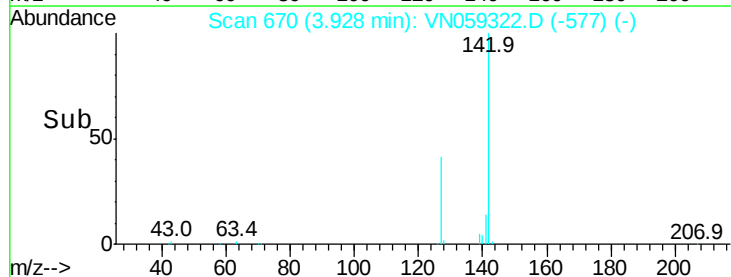
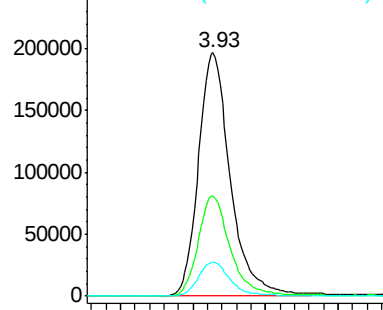
141 14.0 11.4 17.0

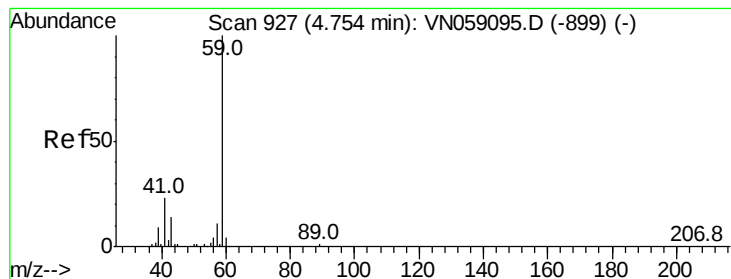


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 539.345 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

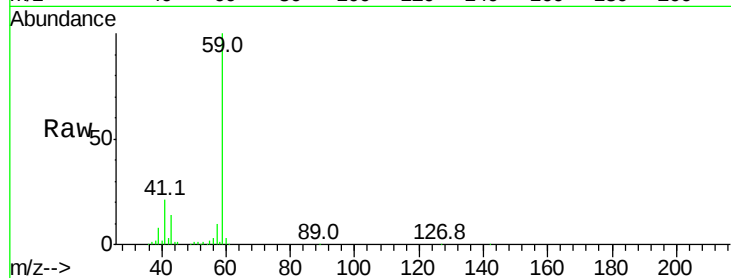
VSTDIC100

Tgt Ion: 59 Resp: 520326

Ion Ratio Lower Upper

59 100

57 10.1 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

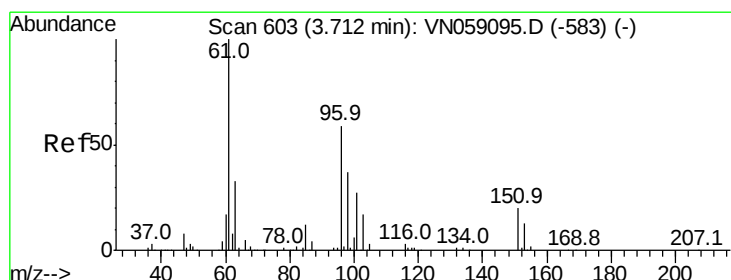
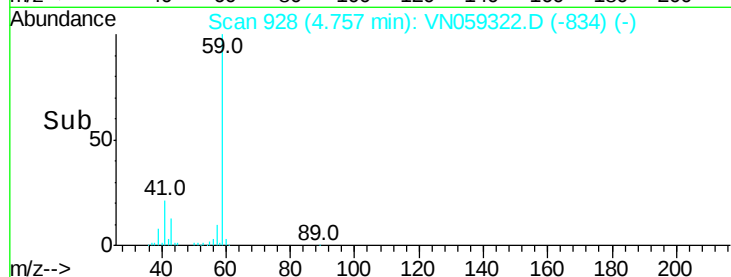
150000

100000

50000

0

Time-->



#12

1,1-Dichloroethene

Concen: 113.623 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

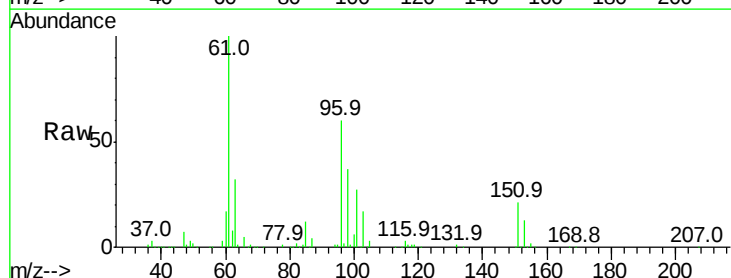
Tgt Ion: 96 Resp: 436484

Ion Ratio Lower Upper

96 100

61 166.9 136.5 204.7

98 62.4 50.2 75.4



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

400000

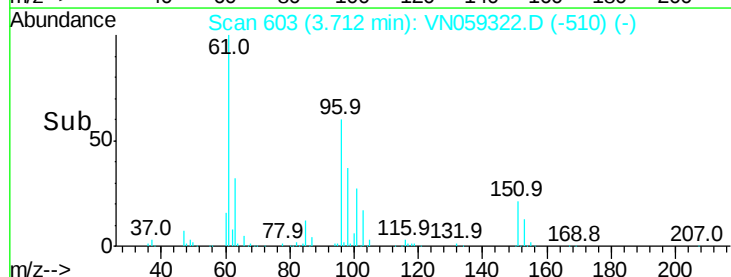
300000

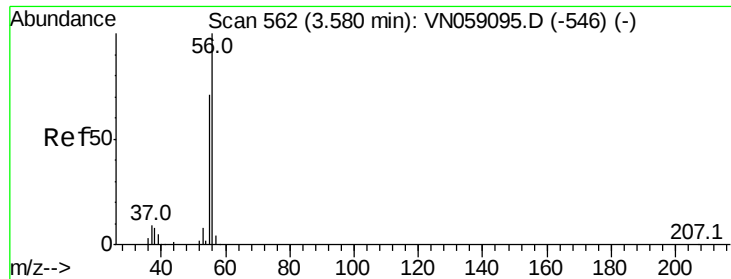
200000

100000

0

Time-->





#13

Acrolein

Concen: 946.905 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

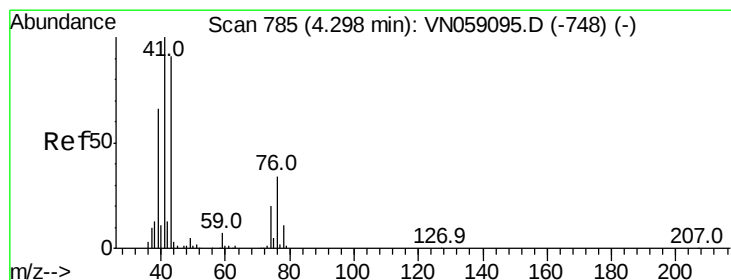
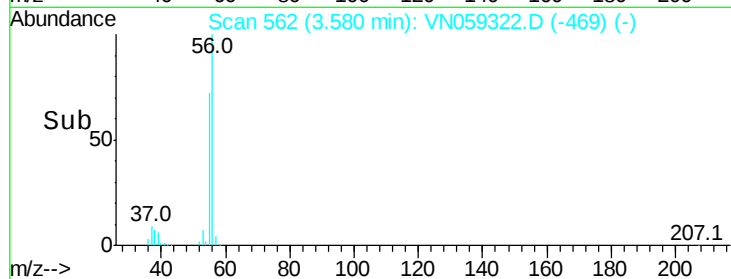
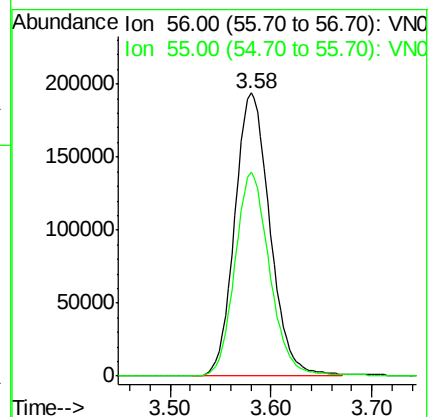
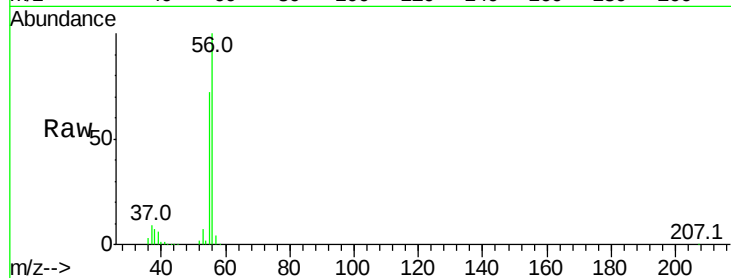
VSTDIC100

Tgt Ion: 56 Resp: 470989

Ion Ratio Lower Upper

56 100

55 71.2 56.4 84.6



#14

Allyl chloride

Concen: 106.467 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

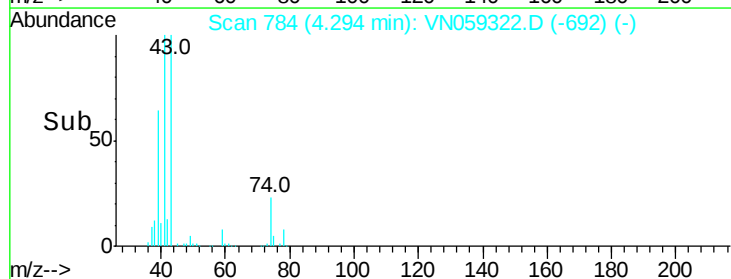
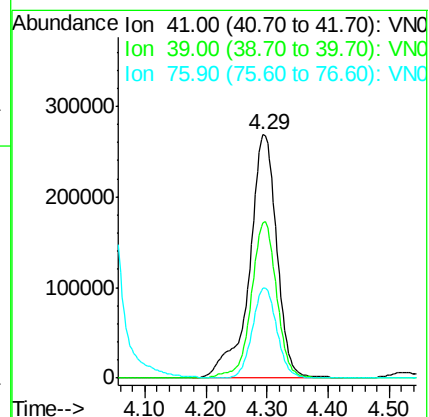
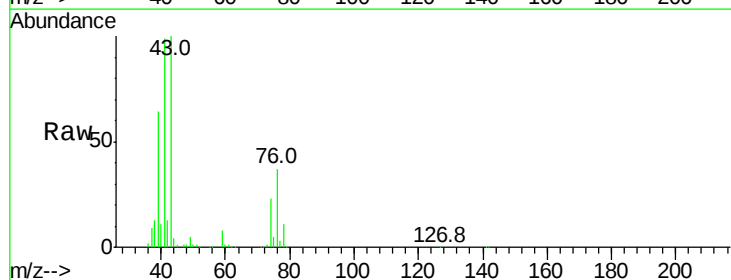
Tgt Ion: 41 Resp: 840127

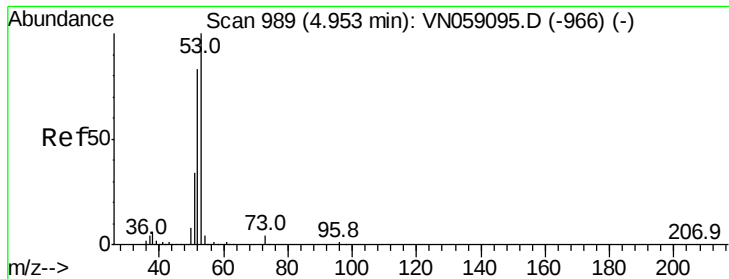
Ion Ratio Lower Upper

41 100

39 59.4 49.1 73.7

76 32.5 24.9 37.3





#15

Acrylonitrile

Concen: 564.292 ug/l

RT: 4.95 min Scan# 989

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

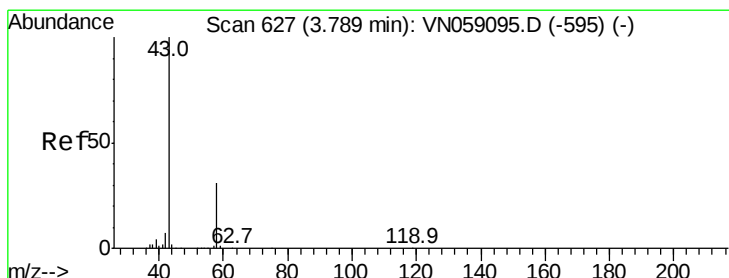
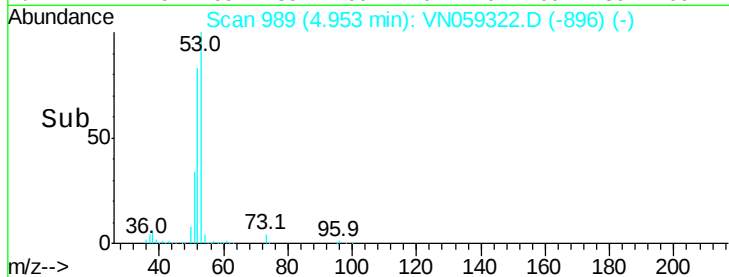
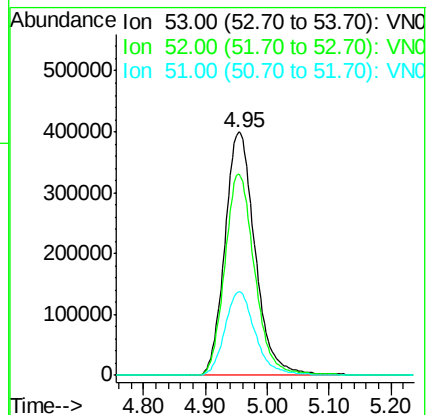
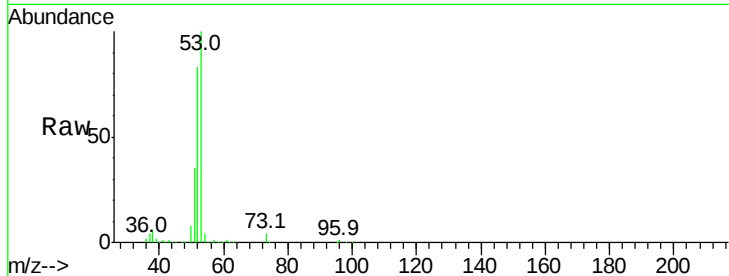
Tgt Ion: 53 Resp: 1354808

Ion Ratio Lower Upper

53 100

52 81.9 65.0 97.6

51 34.9 28.0 42.0



#16

Acetone

Concen: 421.731 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN059322.D

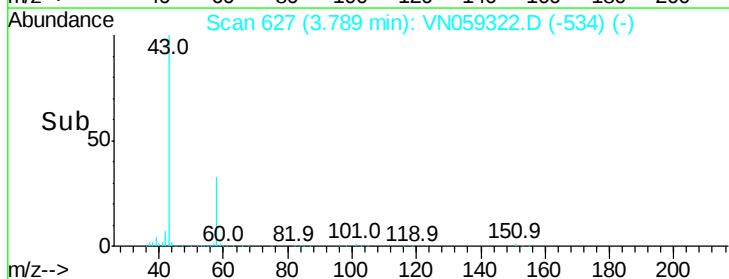
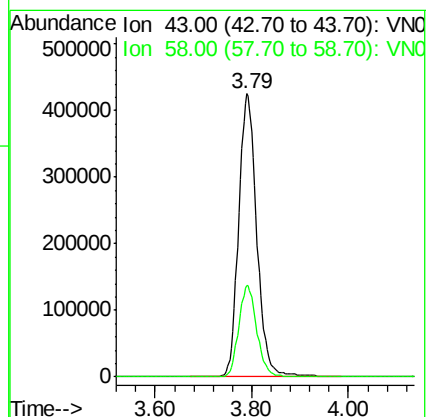
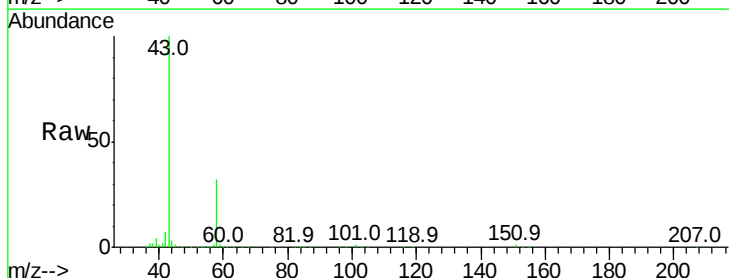
Acq: 20 Nov 2019 12:52

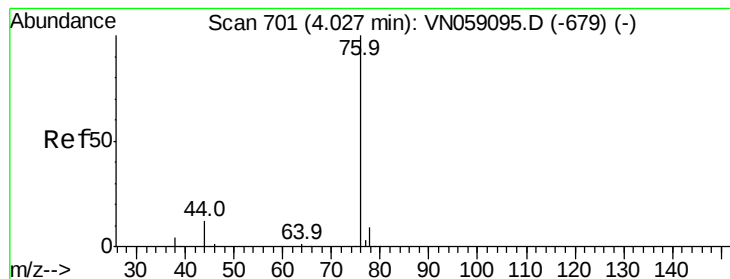
Tgt Ion: 43 Resp: 1110173

Ion Ratio Lower Upper

43 100

58 32.4 24.9 37.3





#17

Carbon Disulfide

Concen: 115.148 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

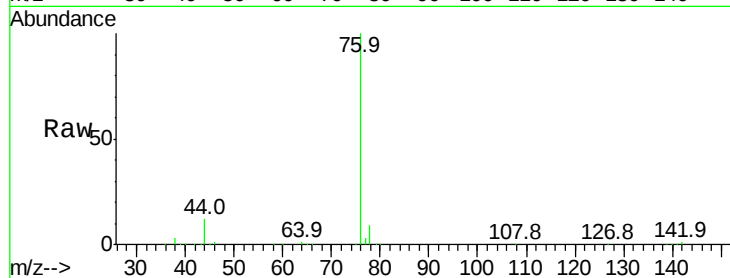
VSTDIC100

Tgt Ion: 76 Resp: 1373126

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VN059322.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN059322.D (-608) (-)

4.03

500000

400000

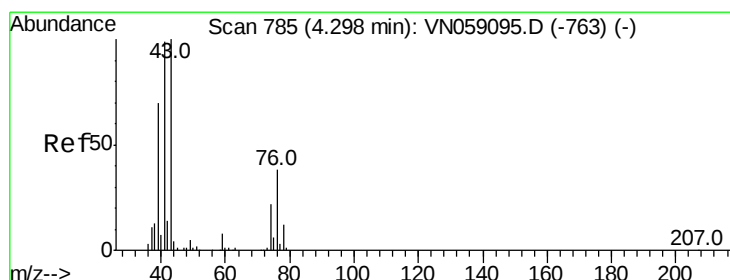
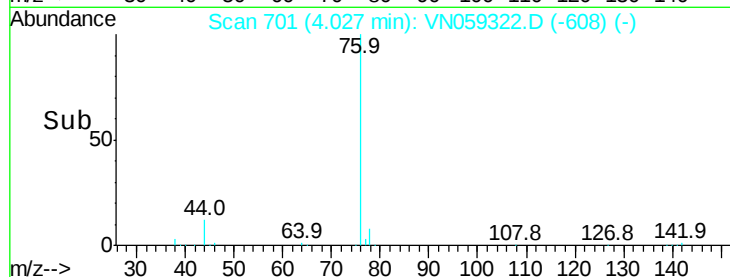
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 121.142 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059322.D

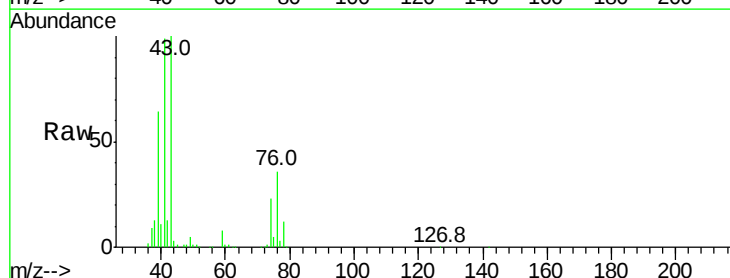
Acq: 20 Nov 2019 12:52

Tgt Ion: 43 Resp: 756928

Ion Ratio Lower Upper

43 100

74 22.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN059322.D (-692) (-)

Ion 74.00 (73.70 to 74.70): VN059322.D (-692) (-)

4.30

300000

250000

200000

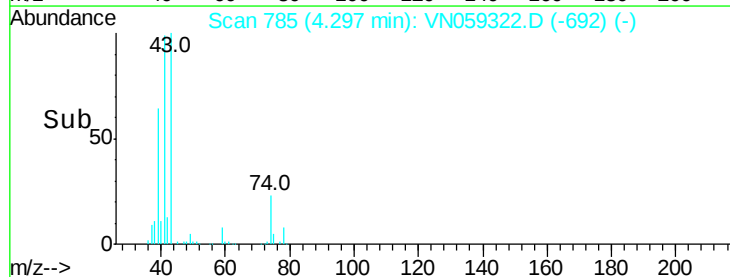
150000

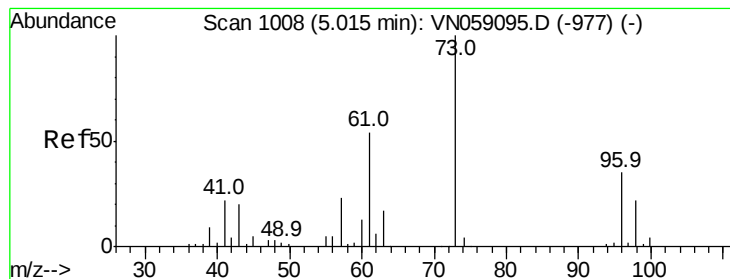
100000

50000

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 112.030 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

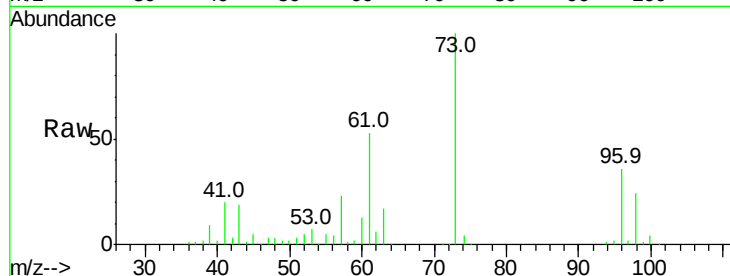
VSTDIC100

Tgt Ion: 73 Resp: 1481687

Ion Ratio Lower Upper

73 100

57 22.9 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VN059322.D (-915) (-)

Ion 57.00 (56.70 to 57.70): VN059322.D (-915) (-)

5.01

400000

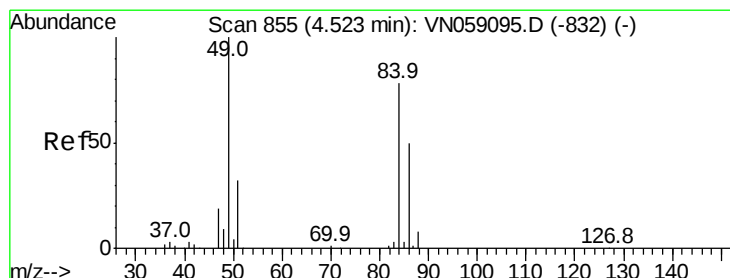
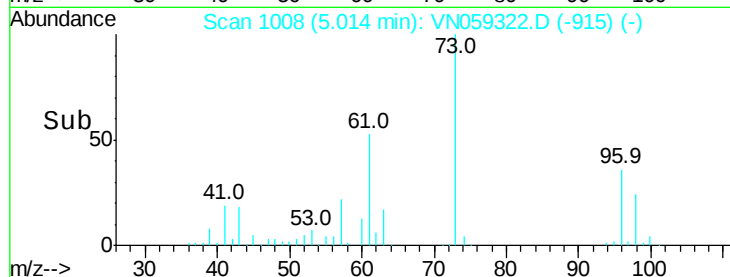
300000

200000

100000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#20

Methylene Chloride

Concen: 105.494 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Tgt Ion: 84 Resp: 483804

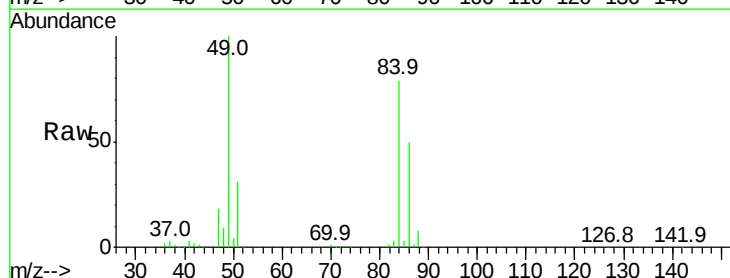
Ion Ratio Lower Upper

84 100

49 126.4 102.0 153.0

51 39.2 32.2 48.2

86 63.7 50.7 76.1



Abundance Ion 83.90 (83.60 to 84.60): VN059322.D (-762) (-)

Ion 48.90 (48.60 to 49.60): VN059322.D (-762) (-)

Ion 50.90 (50.60 to 51.60): VN059322.D (-762) (-)

Ion 85.90 (85.60 to 86.60): VN059322.D (-762) (-)

4.52

250000

200000

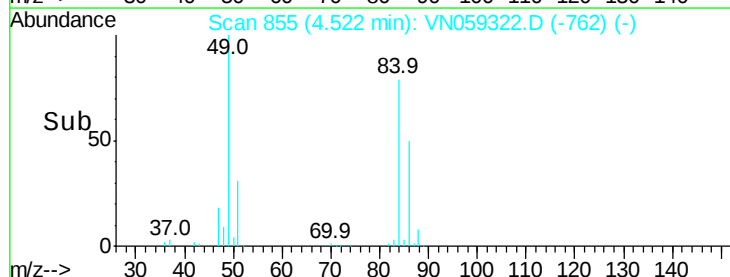
150000

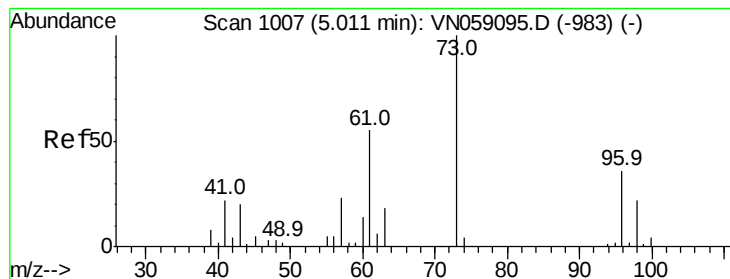
100000

50000

0

Time--> 4.40 4.60 4.80





#21

trans-1,2-Dichloroethene

Concen: 113.420 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

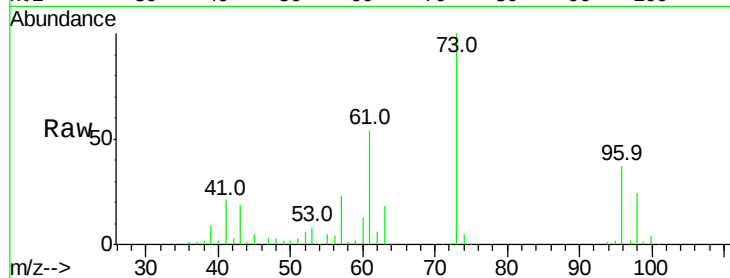
Tgt Ion: 96 Resp: 467683

Ion Ratio Lower Upper

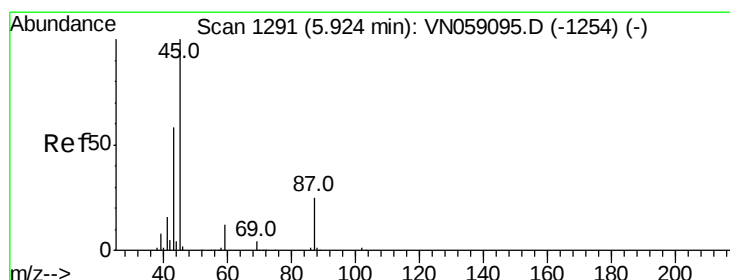
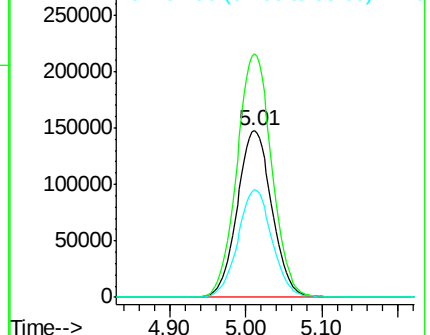
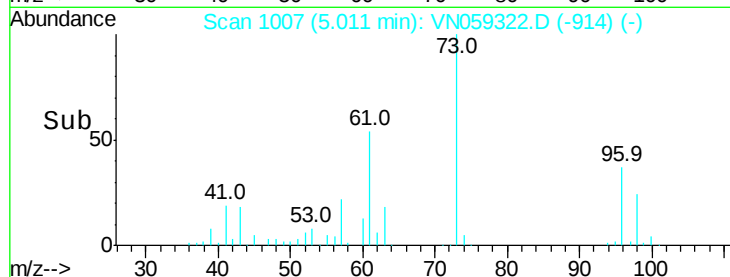
96 100

61 146.0 122.6 183.8

98 64.5 50.3 75.5



Abundance Ion 95.90 (95.60 to 96.60): VN059322.D (-914) (-)



#22

Diisopropyl ether

Concen: 107.451 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Tgt Ion: 45 Resp: 1601535

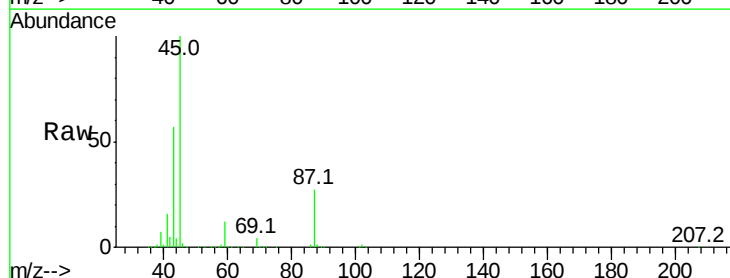
Ion Ratio Lower Upper

45 100

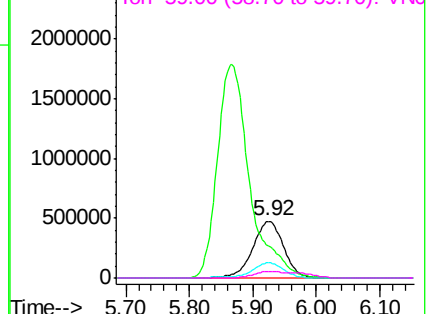
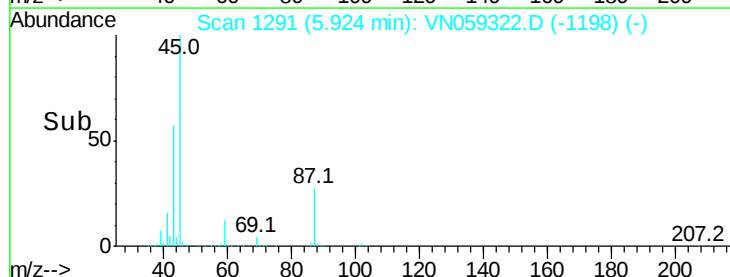
43 56.1 46.7 70.1

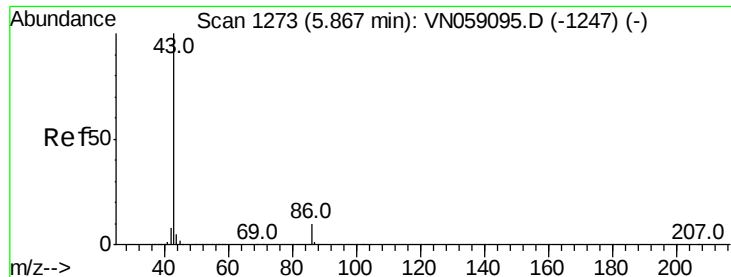
87 26.5 20.5 30.7

59 11.5 9.6 14.4



Abundance Ion 45.00 (44.70 to 45.70): VN059322.D (-1198) (-)





#23

Vinyl Acetate

Concen: 544.538 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

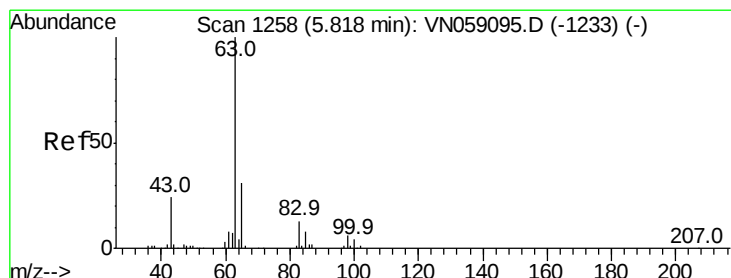
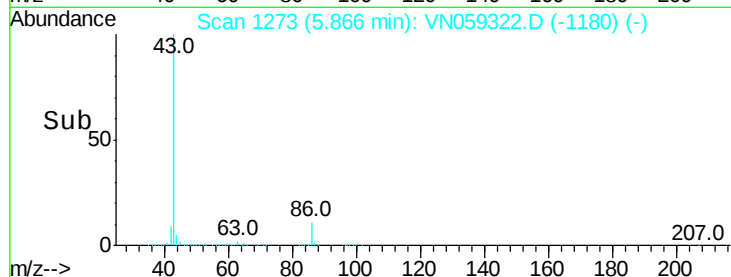
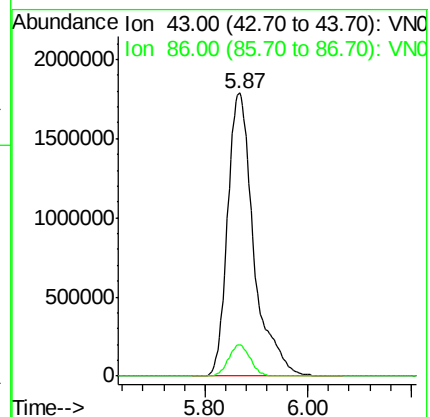
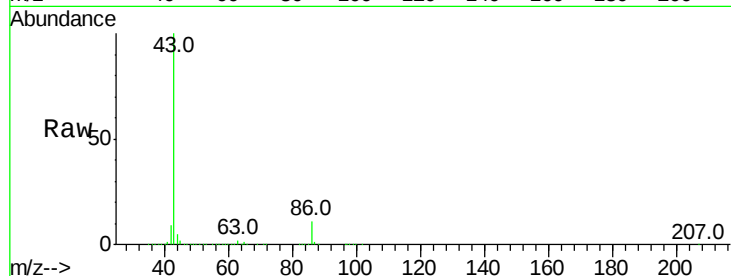
VSTDIC100

Tgt Ion: 43 Resp: 6290250

Ion Ratio Lower Upper

43 100

86 11.0 7.7 11.5



#24

1,1-Dichloroethane

Concen: 107.139 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

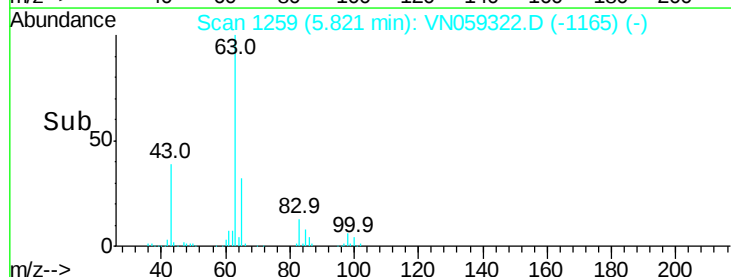
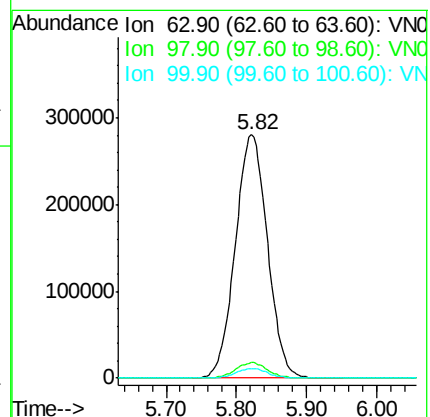
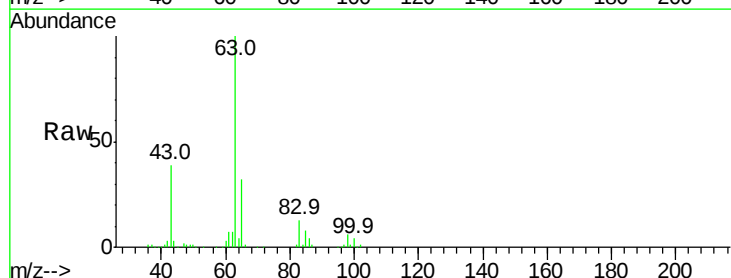
Tgt Ion: 63 Resp: 891903

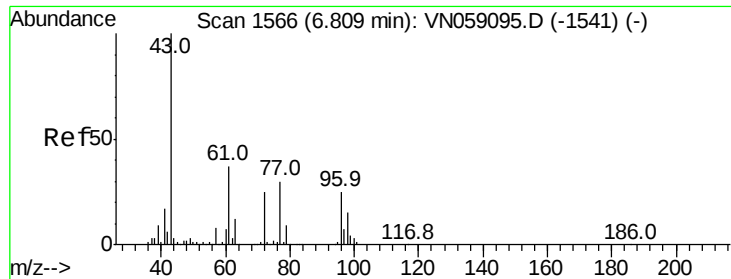
Ion Ratio Lower Upper

63 100

98 6.3 2.8 8.4

100 3.9 1.9 5.7





#25

2-Butanone

Concen: 525.450 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

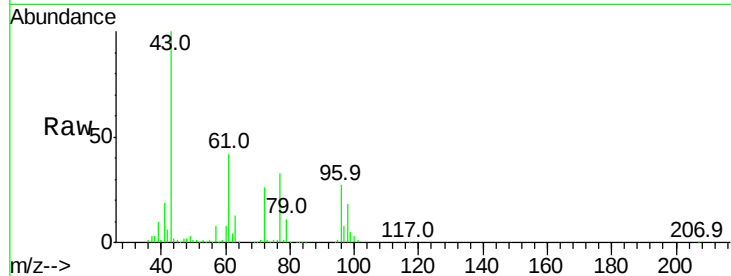
VSTDIC100

Tgt Ion: 43 Resp: 1822985

Ion Ratio Lower Upper

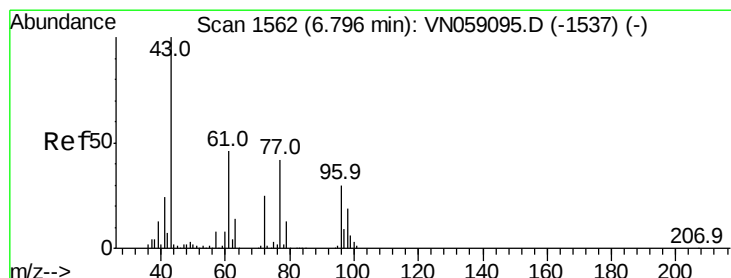
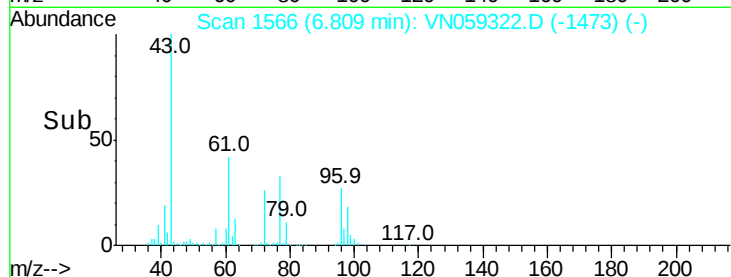
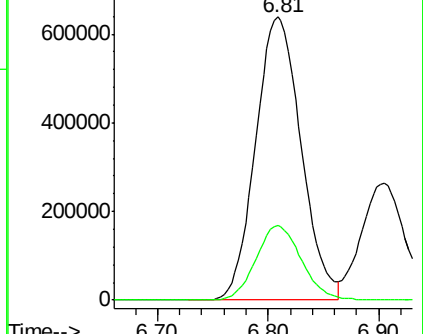
43 100

72 26.4 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 102.431 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN059322.D

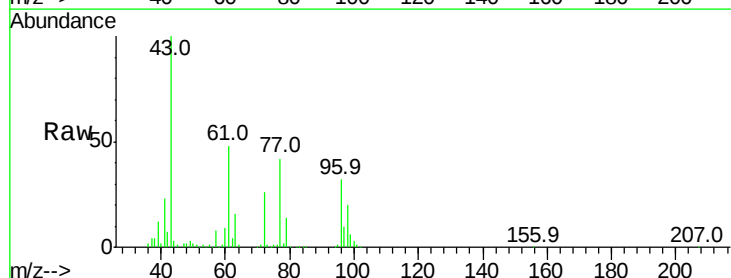
Acq: 20 Nov 2019 12:52

Tgt Ion: 77 Resp: 745622

Ion Ratio Lower Upper

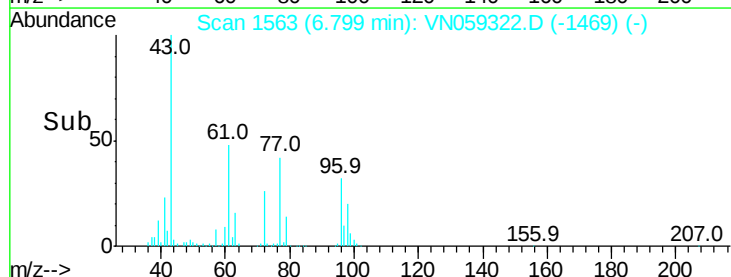
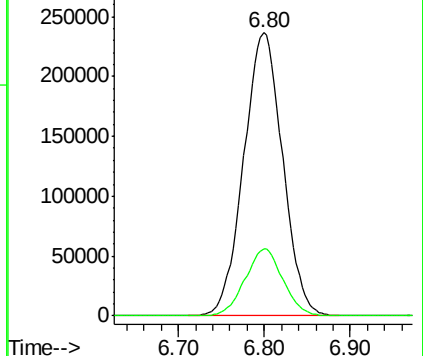
77 100

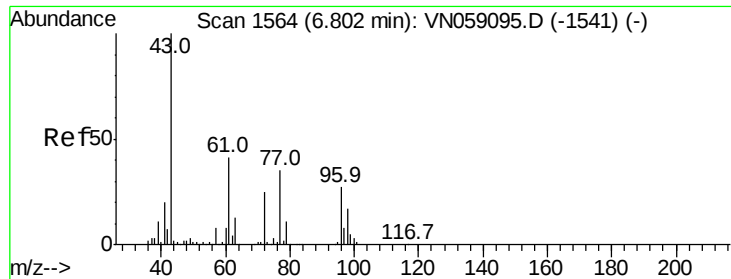
97 23.1 11.2 33.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

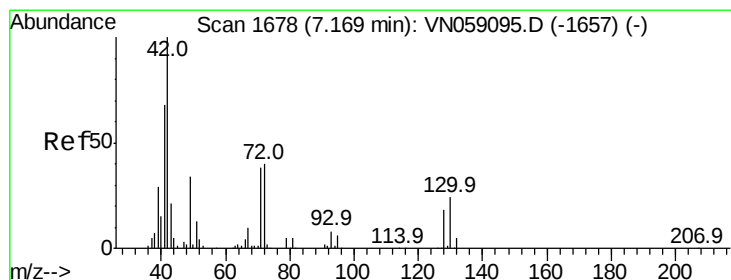
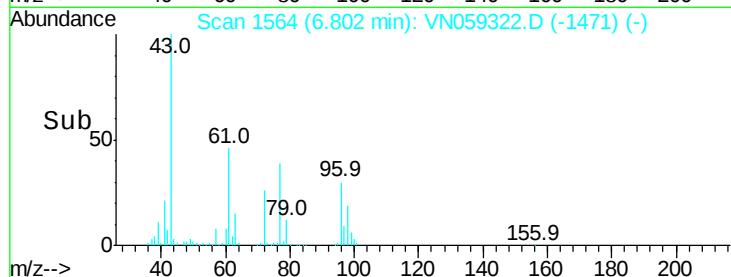
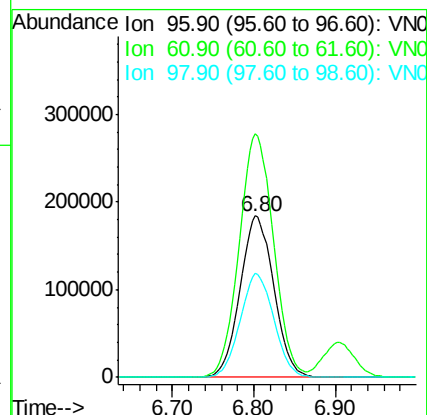
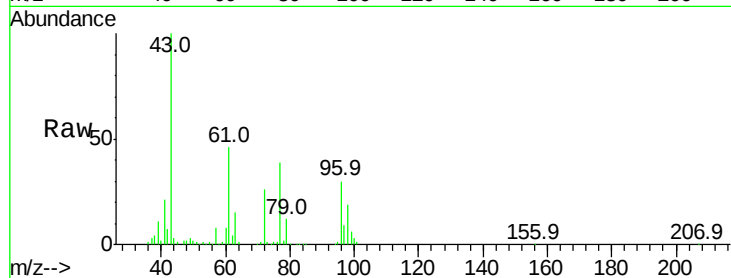




#27
 cis-1,2-Dichloroethene
 Concen: 110.302 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

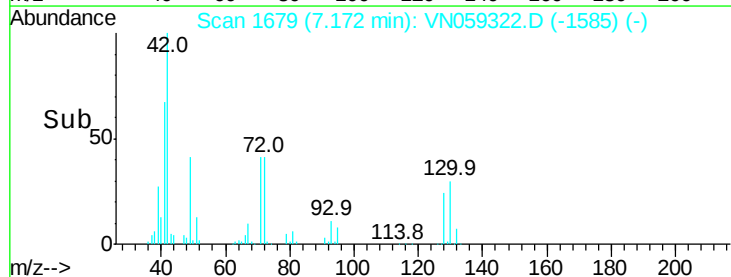
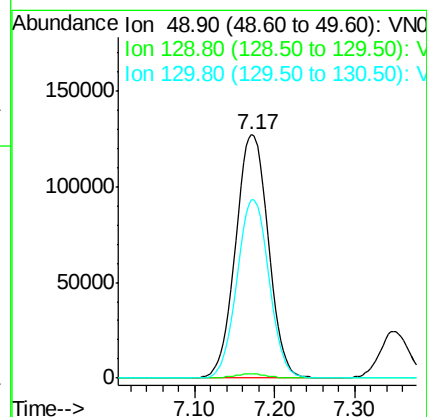
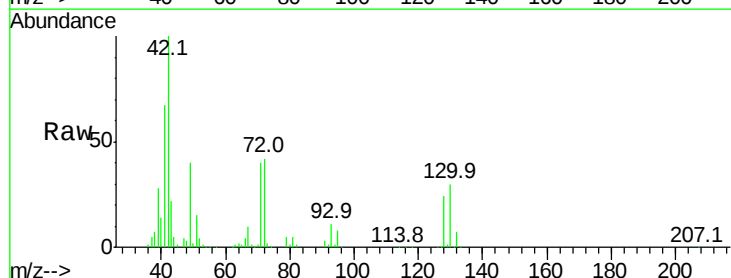
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

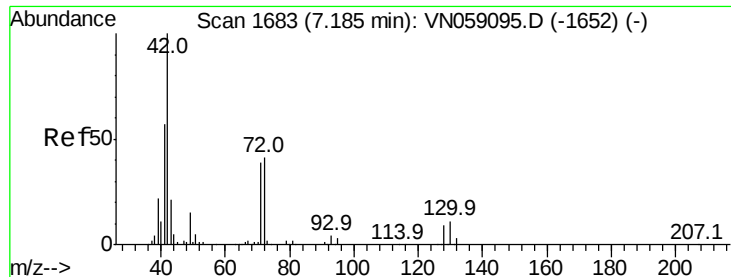
Tgt Ion: 96 Resp: 527675
 Ion Ratio Lower Upper
 96 100
 61 153.1 0.0 311.6
 98 64.2 0.0 129.8



#28
 Bromochloromethane
 Concen: 140.943 ug/l
 RT: 7.17 min Scan# 1679
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion: 49 Resp: 353000
 Ion Ratio Lower Upper
 49 100
 129 1.7 0.0 3.8
 130 71.7 55.6 83.4





#29

Tetrahydrofuran

Concen: 564.483 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

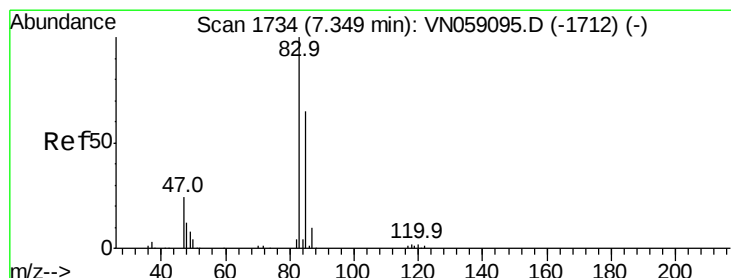
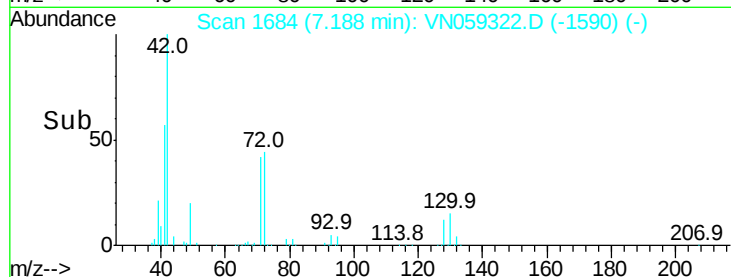
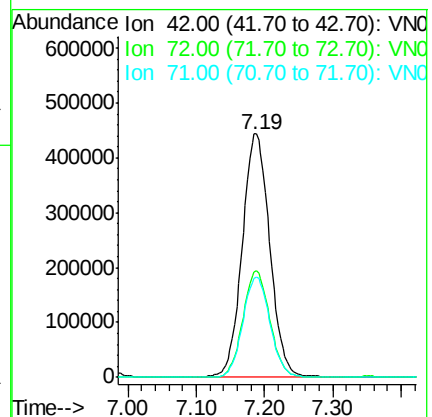
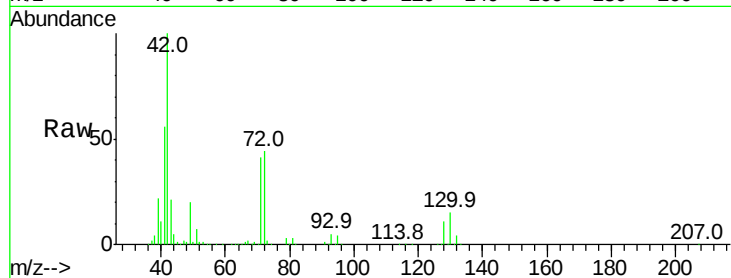
Tgt Ion: 42 Resp: 1244368

Ion Ratio Lower Upper

42 100

72 42.9 33.1 49.7

71 40.7 30.9 46.3



#30

Chloroform

Concen: 106.288 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. -0.00 min

Lab File: VN059322.D

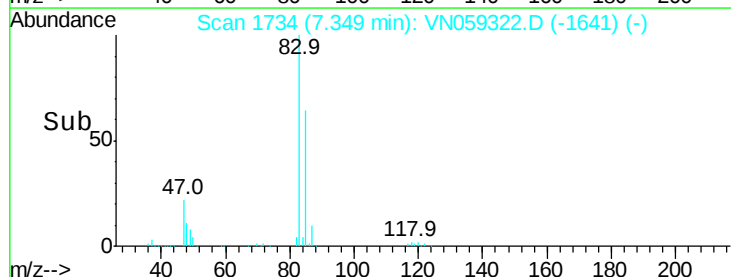
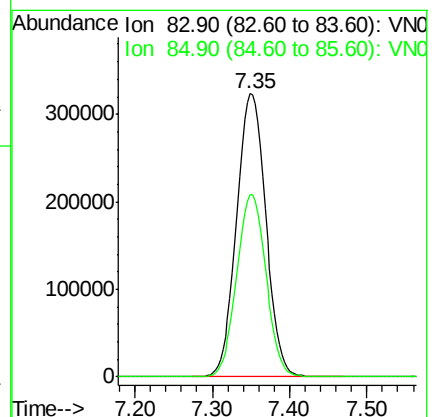
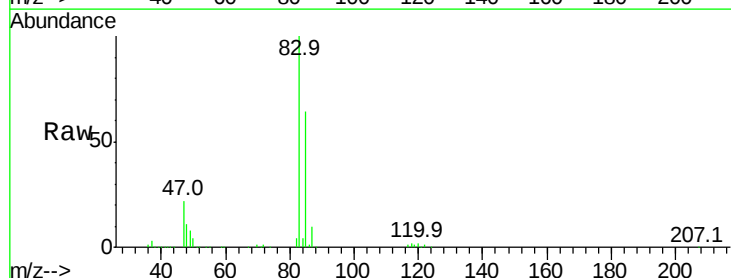
Acq: 20 Nov 2019 12:52

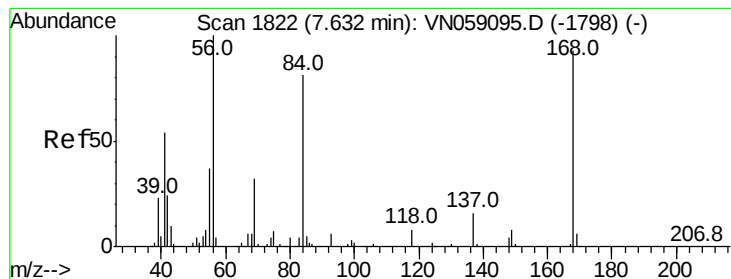
Tgt Ion: 83 Resp: 848786

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.8





#31

Cyclohexane

Concen: 106.929 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

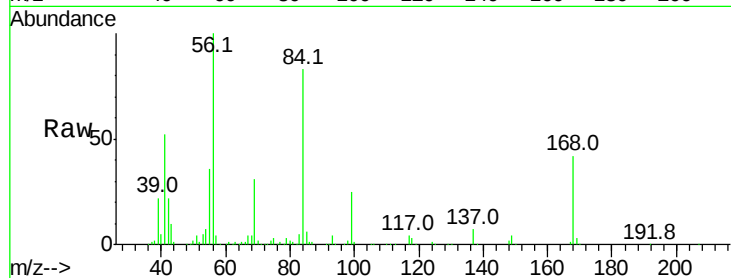
Tgt Ion: 56 Resp: 842698

Ion Ratio Lower Upper

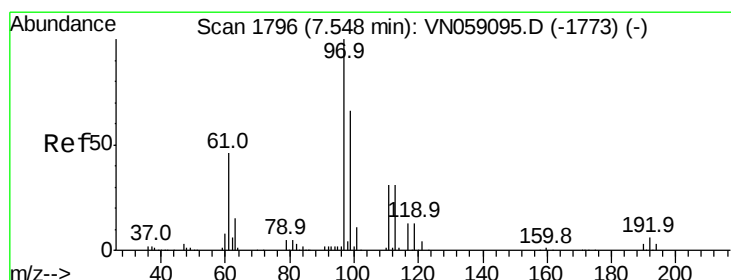
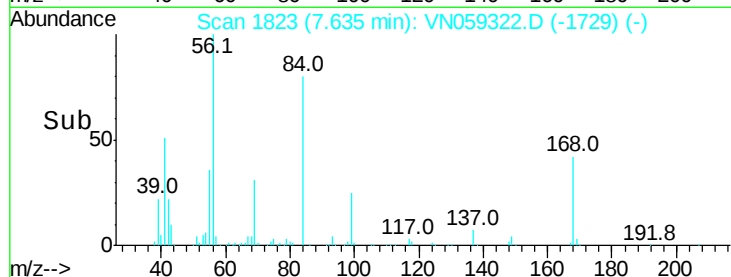
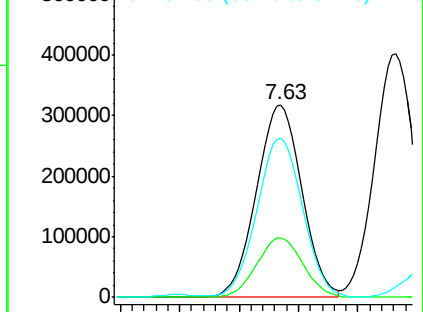
56 100

69 31.0 25.8 38.8

84 81.5 65.0 97.4



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



#32

1,1,1-Trichloroethane

Concen: 108.828 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

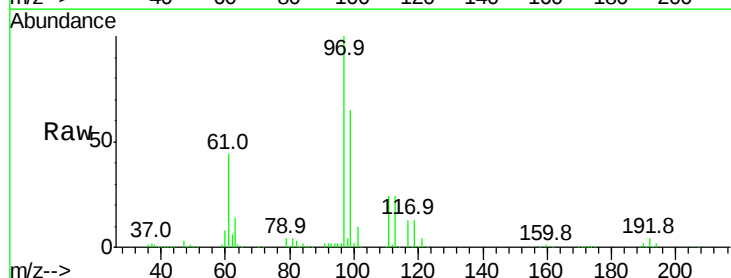
Tgt Ion: 97 Resp: 730671

Ion Ratio Lower Upper

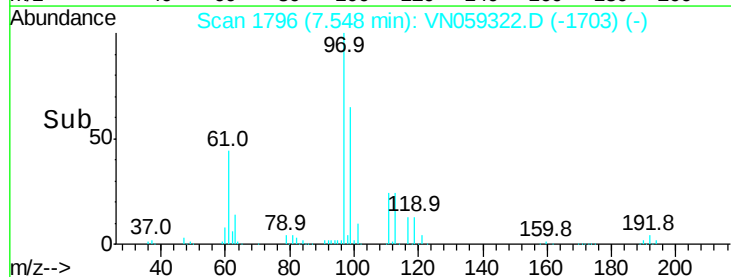
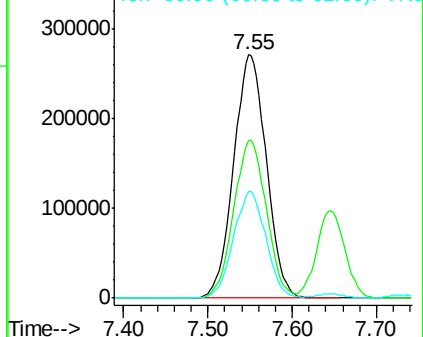
97 100

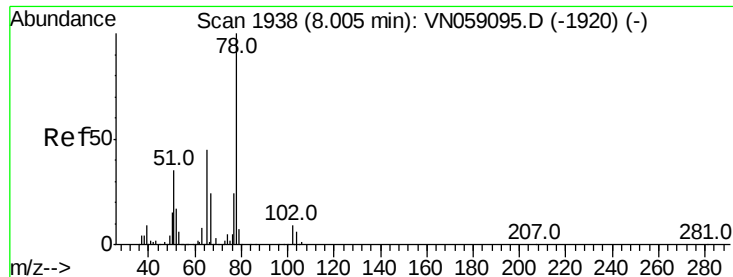
99 64.8 51.0 76.6

61 43.6 35.8 53.8



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

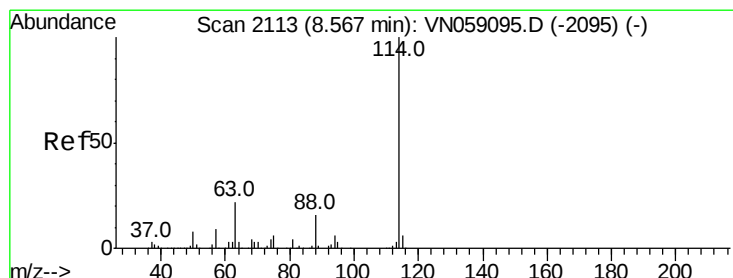
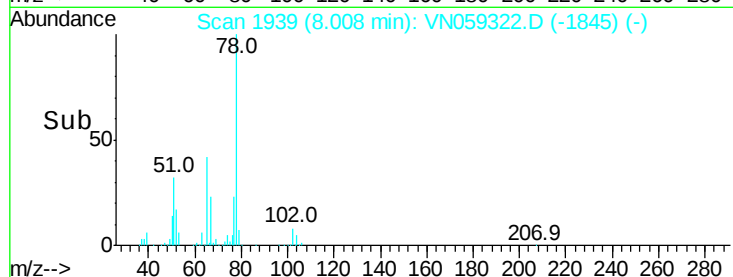
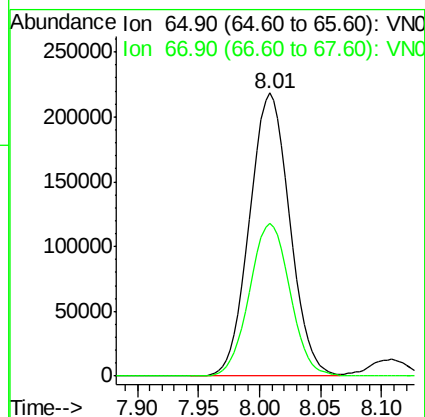
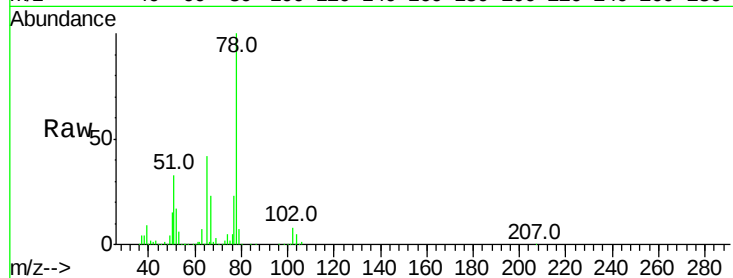




#33
 1,2-Dichloroethane-d4
 Concen: 98.498 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

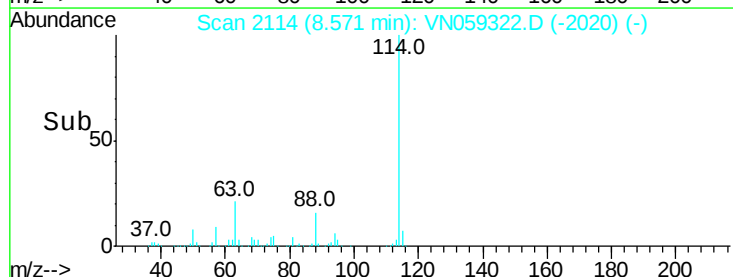
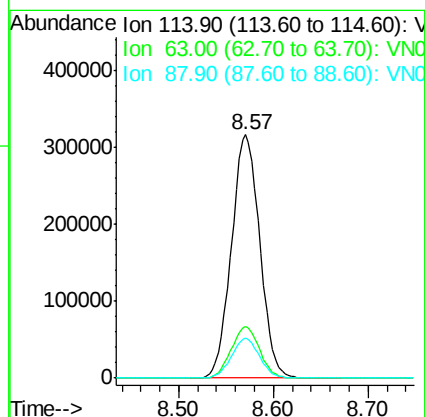
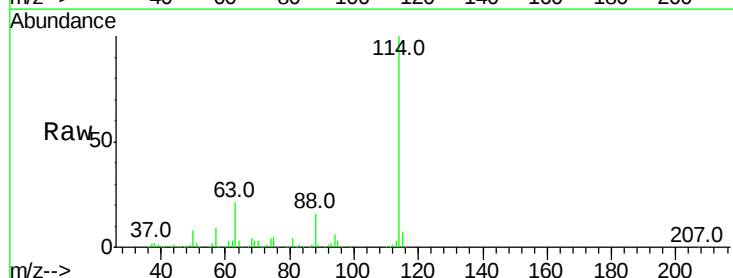
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

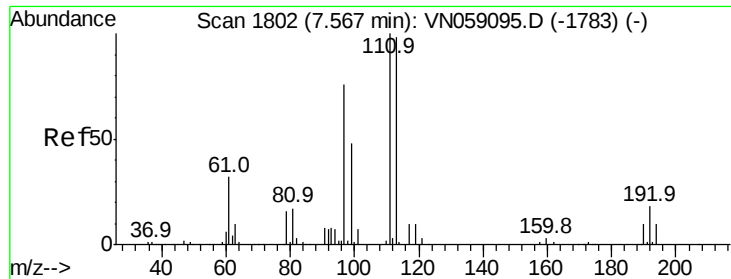
Tgt Ion: 65 Resp: 498615
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion: 114 Resp: 658453
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 43.4
 88 16.3 0.0 32.2

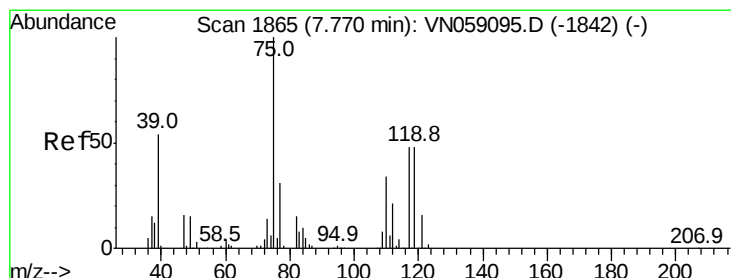
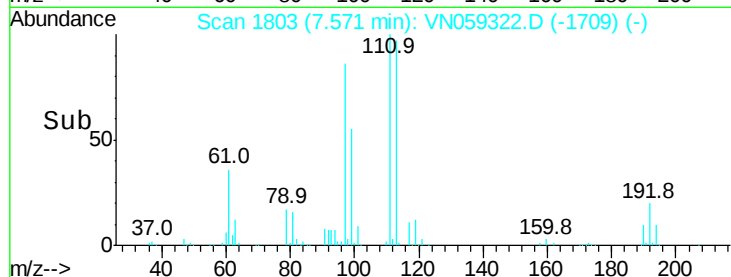
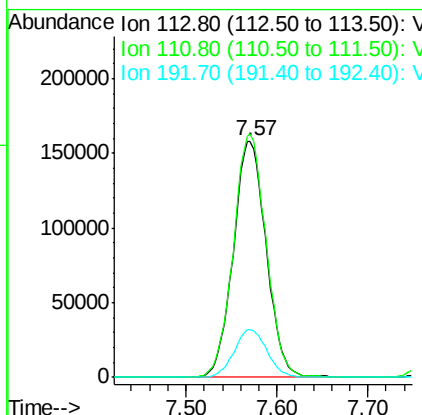
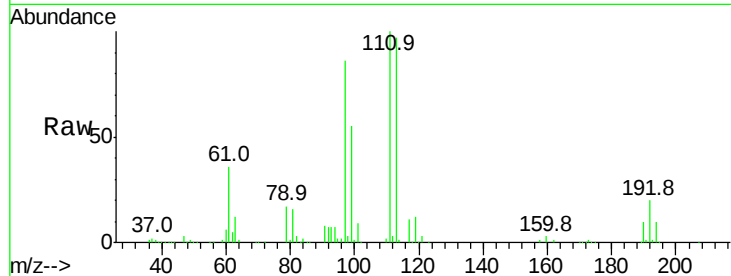




#35
Dibromofluoromethane
Concen: 100.969 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

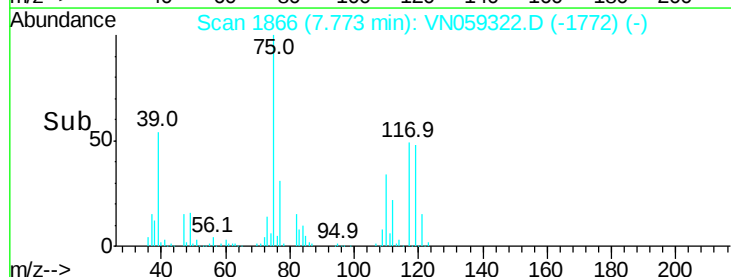
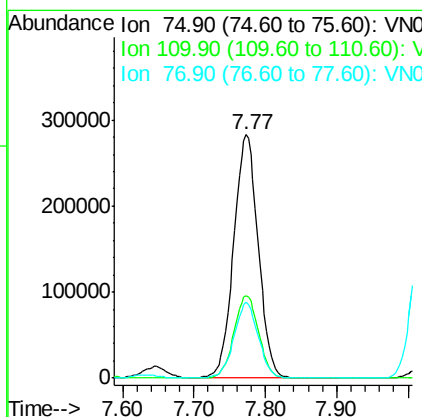
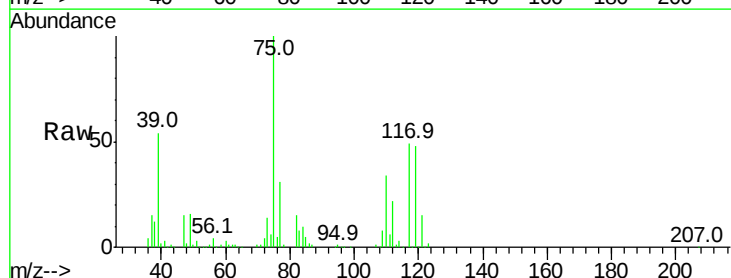
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

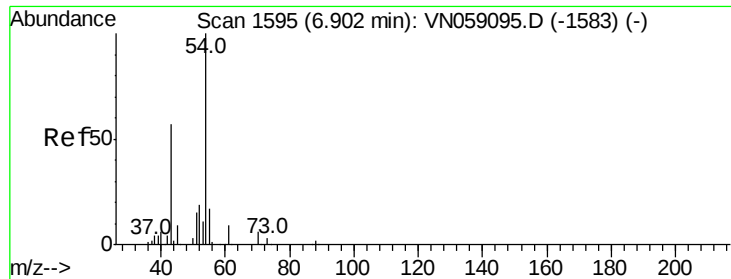
Tgt Ion:113 Resp: 396969
Ion Ratio Lower Upper
113 100
111 102.7 82.8 124.2
192 20.2 16.1 24.1



#36
1,1-Dichloropropene
Concen: 110.483 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Tgt Ion: 75 Resp: 679979
Ion Ratio Lower Upper
75 100
110 33.9 17.1 51.2
77 30.9 24.8 37.2

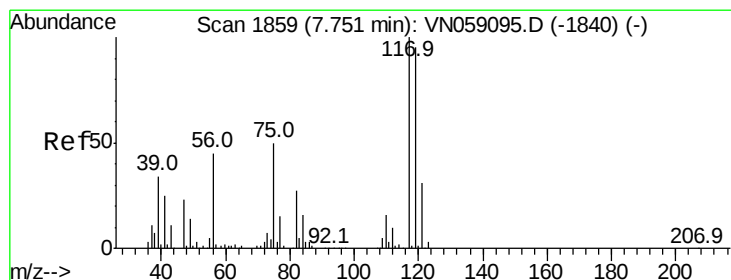
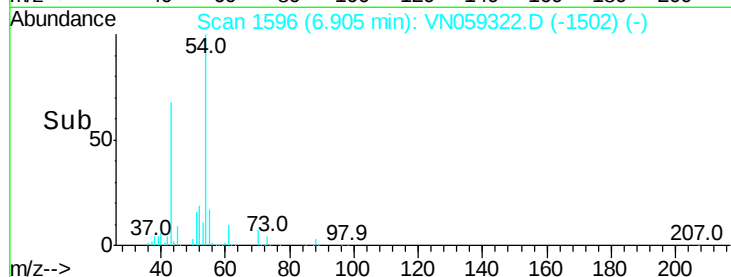
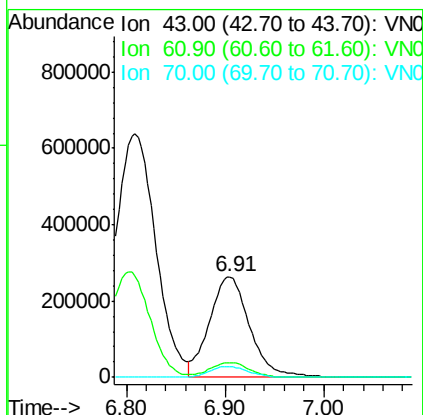
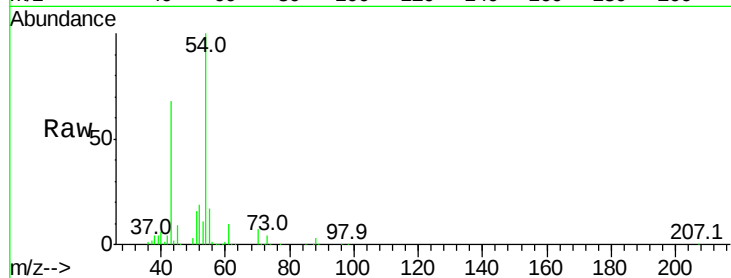




#37
 Ethyl Acetate
 Concen: 108.117 ug/l
 RT: 6.91 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

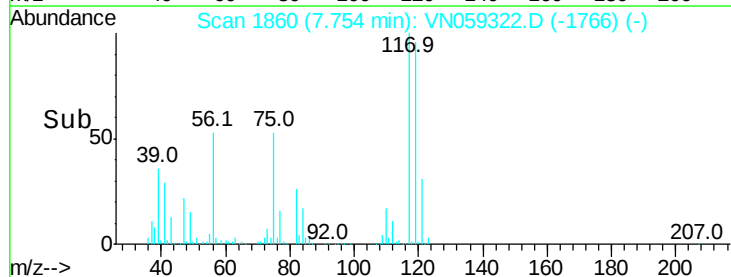
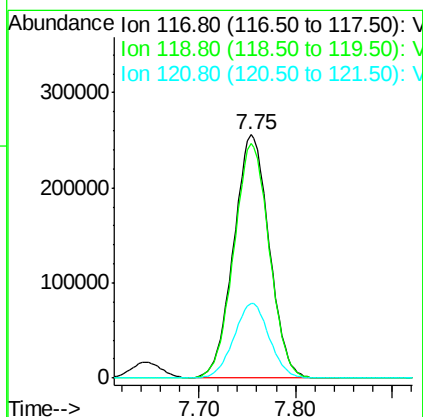
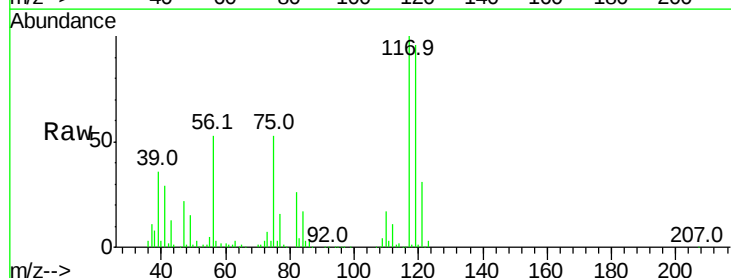
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

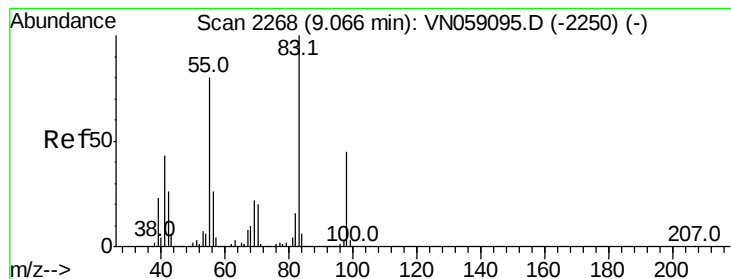
Tgt Ion: 43 Resp: 740259
 Ion Ratio Lower Upper
 43 100
 61 14.8 11.2 16.8
 70 10.6 7.8 11.8



#38
 Carbon Tetrachloride
 Concen: 106.143 ug/l
 RT: 7.75 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion: 117 Resp: 650209
 Ion Ratio Lower Upper
 117 100
 119 96.3 75.6 113.4
 121 30.7 24.6 36.8





#39

Methylcyclohexane

Concen: 116.691 ug/l

RT: 9.07 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

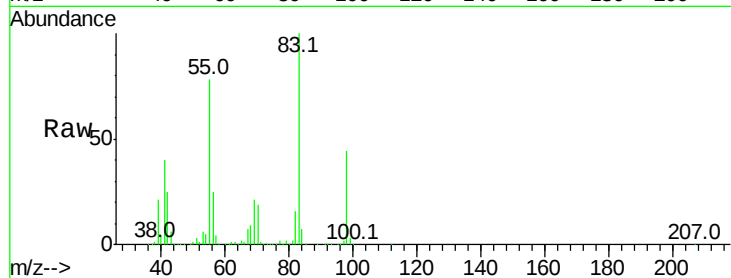
Tgt Ion: 83 Resp: 833517

Ion Ratio Lower Upper

83 100

55 78.1 63.9 95.9

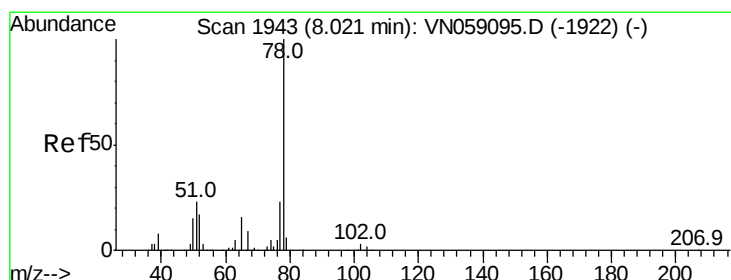
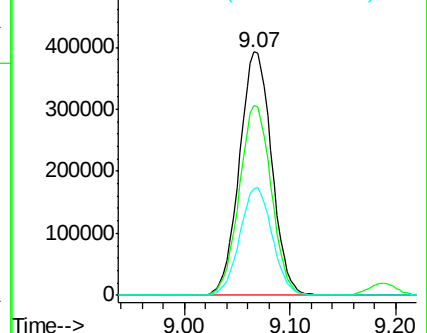
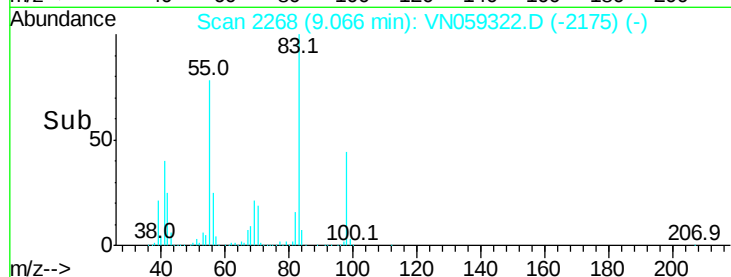
98 44.1 35.6 53.4



Abundance Ion 83.00 (82.70 to 83.70): VN059322.D (-2175) (-)

Ion 55.00 (54.70 to 55.70): VN059322.D (-2175) (-)

Ion 98.00 (97.70 to 98.70): VN059322.D (-2175) (-)



#40

Benzene

Concen: 107.468 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059322.D

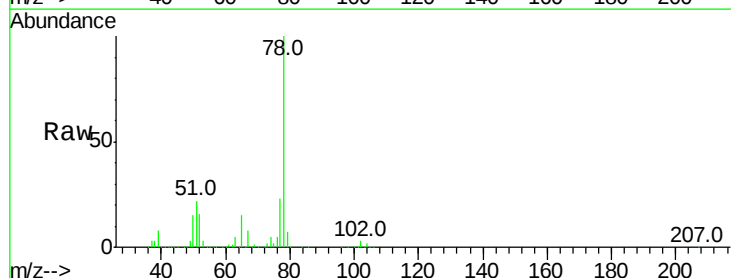
Acq: 20 Nov 2019 12:52

Tgt Ion: 78 Resp: 1991778

Ion Ratio Lower Upper

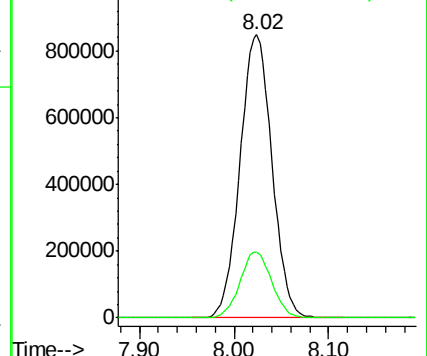
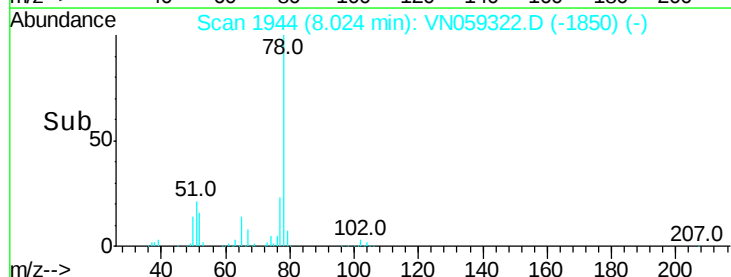
78 100

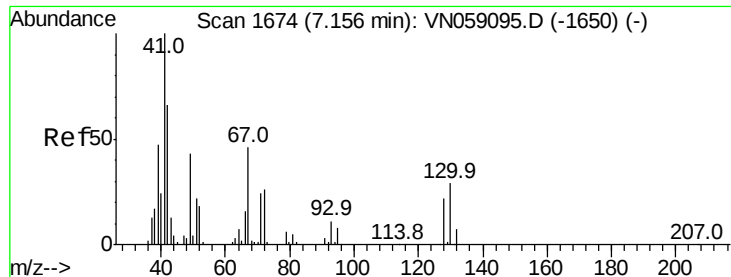
77 23.3 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN059322.D (-1850) (-)

Ion 77.00 (76.70 to 77.70): VN059322.D (-1850) (-)





#41

Methacrylonitrile

Concen: 359.307 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.03 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 1069764

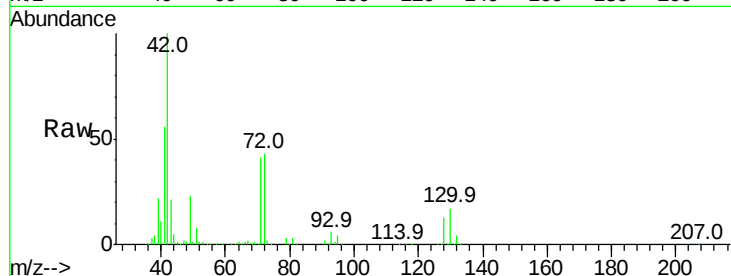
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

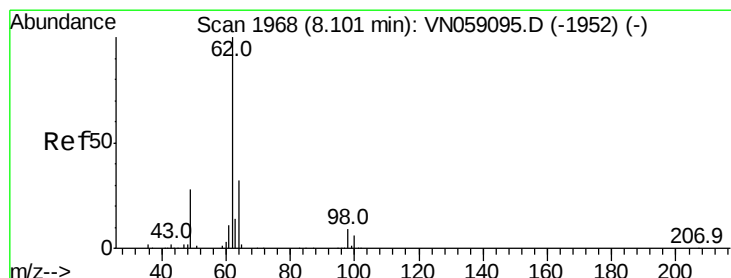
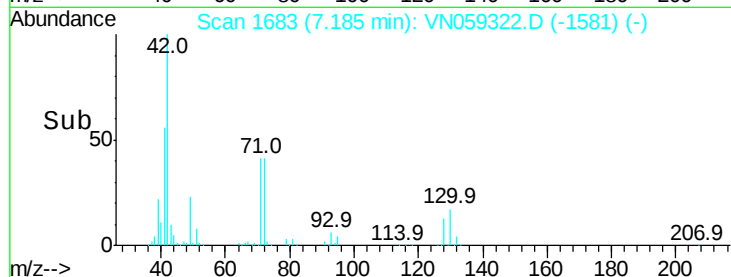
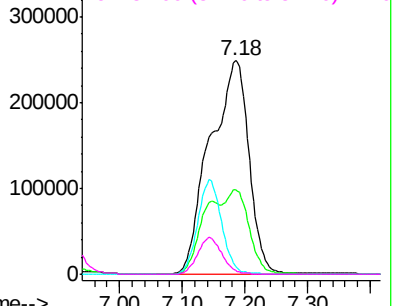


Abundance Ion 41.00 (40.70 to 41.70): VN059095.D (-1650) (-)

Ion 39.00 (38.70 to 39.70): VN059095.D (-1650) (-)

Ion 67.00 (66.70 to 67.70): VN059095.D (-1650) (-)

Ion 52.00 (51.70 to 52.70): VN059095.D (-1650) (-)



#42

1,2-Dichloroethane

Concen: 104.052 ug/l

RT: 8.10 min Scan# 1969

Delta R.T. 0.00 min

Lab File: VN059322.D

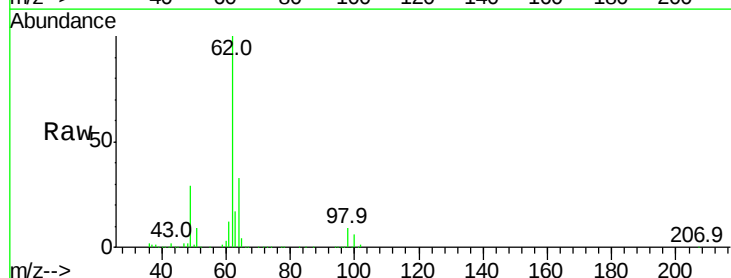
Acq: 20 Nov 2019 12:52

Tgt Ion: 62 Resp: 661414

Ion Ratio Lower Upper

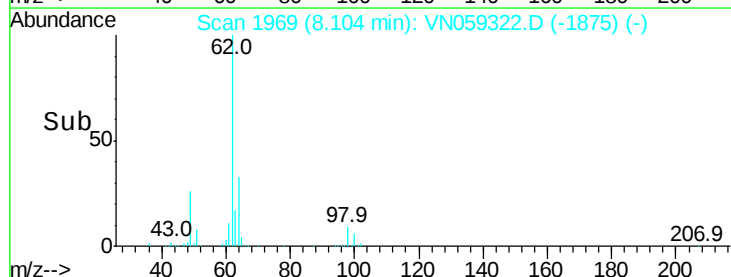
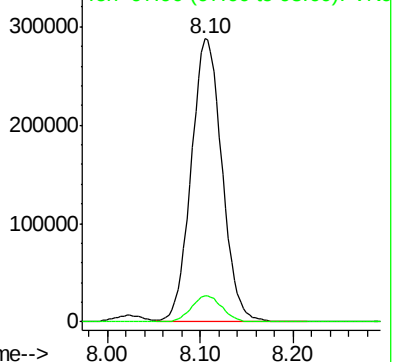
62 100

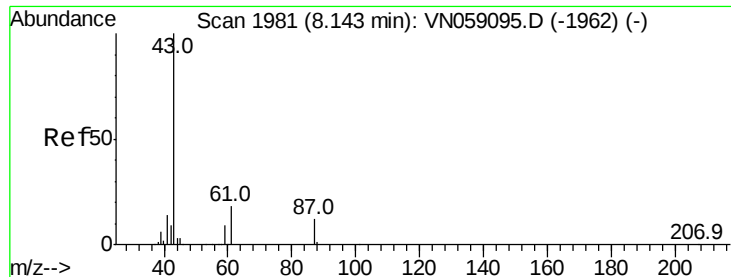
98 9.3 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VN059095.D (-1952) (-)

Ion 97.90 (97.60 to 98.60): VN059095.D (-1952) (-)





#43

Isopropyl Acetate

Concen: 108.075 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

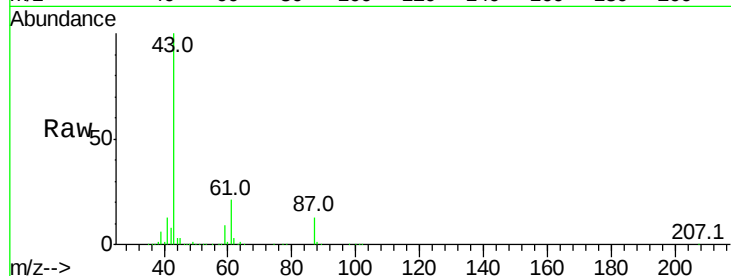
Tgt Ion: 43 Resp: 1179701

Ion Ratio Lower Upper

43 100

61 26.8 21.0 31.6

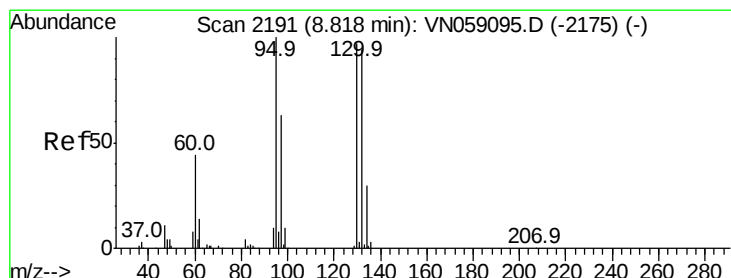
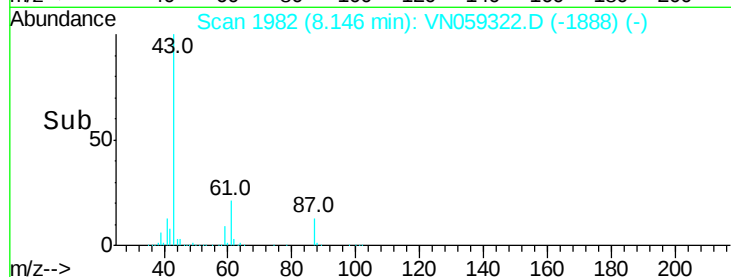
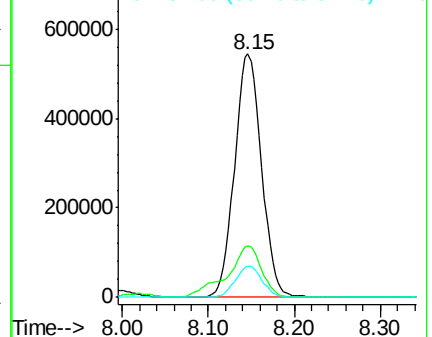
87 12.9 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN059095.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN059095.D (-1962) (-)



#44

Trichloroethene

Concen: 109.808 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059322.D

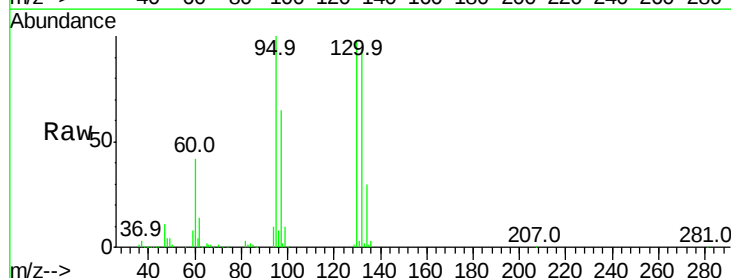
Acq: 20 Nov 2019 12:52

Tgt Ion: 130 Resp: 500276

Ion Ratio Lower Upper

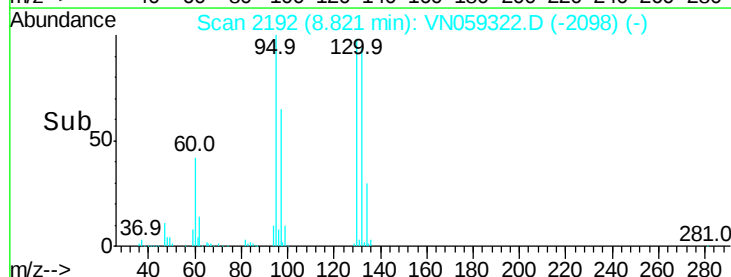
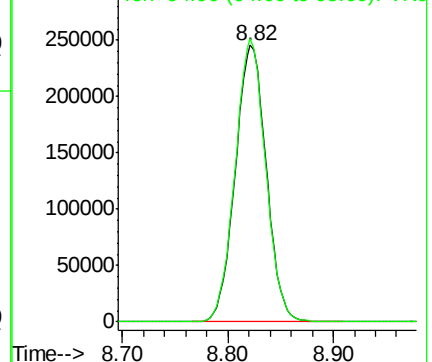
130 100

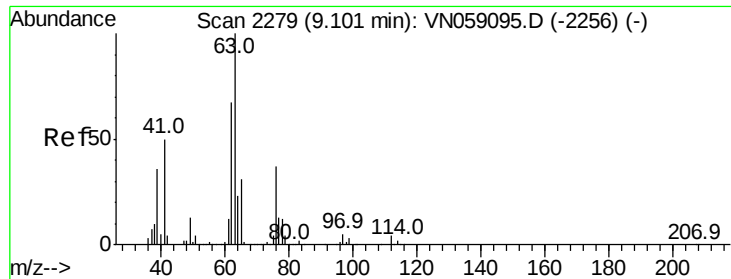
95 102.2 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): VN059095.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059095.D (-2175) (-)





#45

1,2-Dichloropropane

Concen: 107.053 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

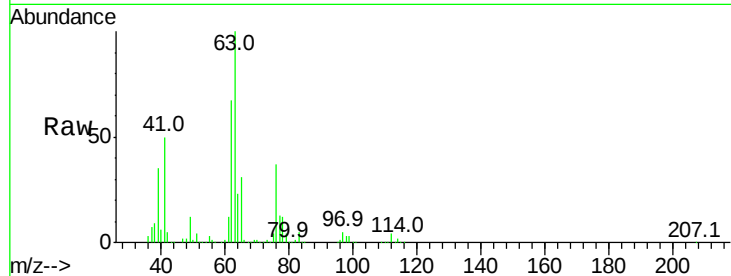
VSTDIC100

Tgt Ion: 63 Resp: 538914

Ion Ratio Lower Upper

63 100

65 30.7 24.6 37.0



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.10

250000

200000

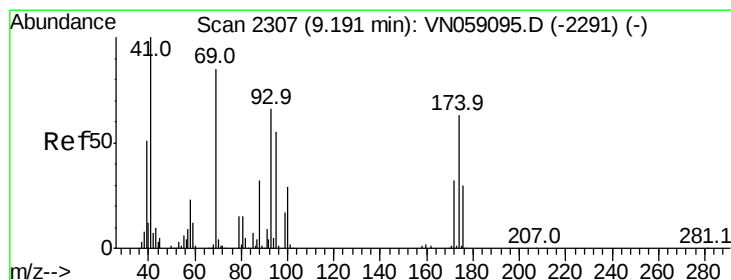
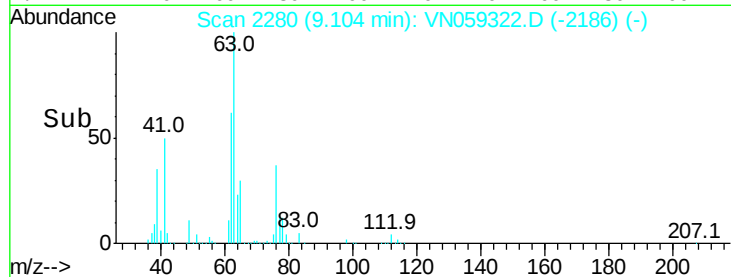
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 105.898 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

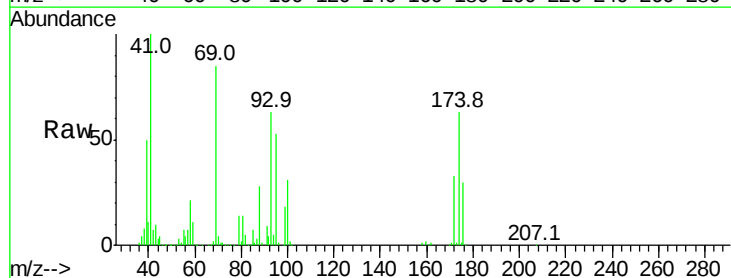
Tgt Ion: 93 Resp: 332200

Ion Ratio Lower Upper

93 100

95 83.1 66.6 100.0

174 99.3 78.2 117.2



Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO

200000

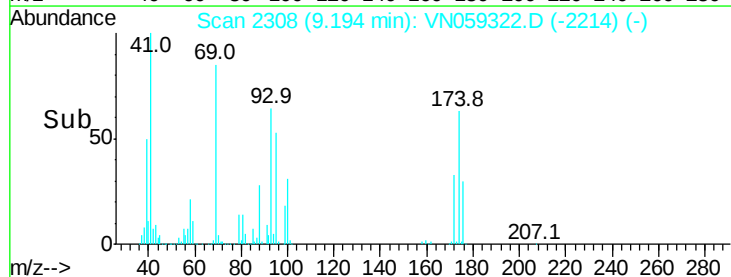
150000

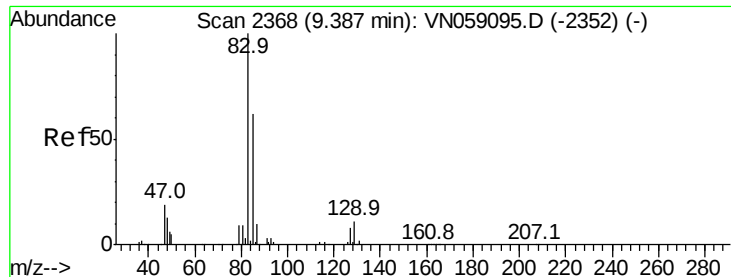
100000

50000

0

Time-->





#47

Bromodichloromethane

Concen: 107.343 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

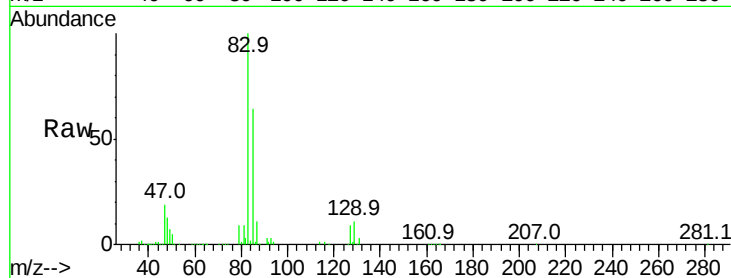
Tgt Ion: 83 Resp: 672399

Ion Ratio Lower Upper

83 100

85 64.2 49.7 74.5

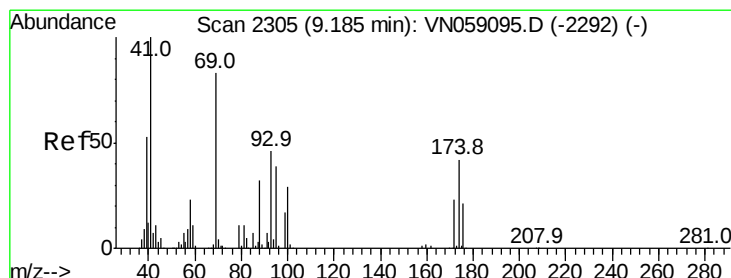
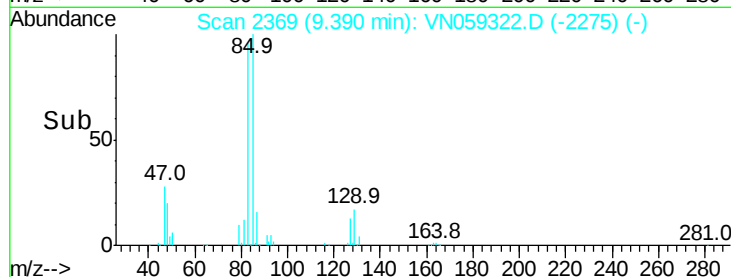
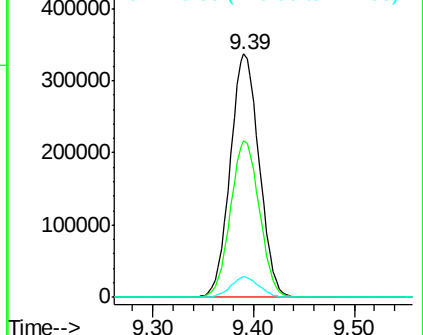
127 8.5 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VN059322.D (-2275) (-)

Ion 84.90 (84.60 to 85.60): VN059322.D (-2275) (-)

Ion 126.80 (126.50 to 127.50): VN059322.D (-2275) (-)



#48

Methyl methacrylate

Concen: 111.638 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

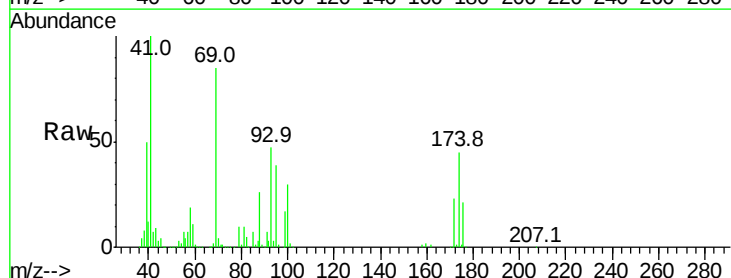
Tgt Ion: 41 Resp: 545072

Ion Ratio Lower Upper

41 100

69 86.9 67.3 100.9

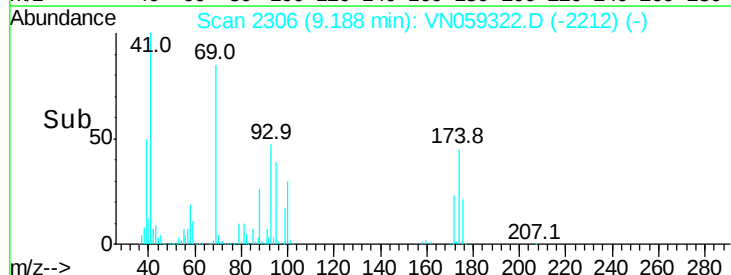
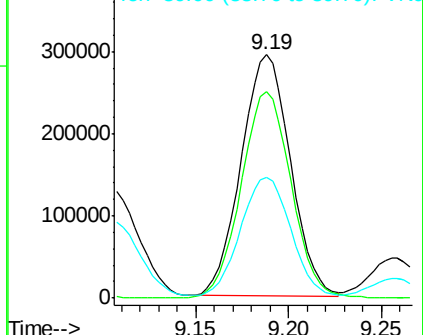
39 51.9 43.3 64.9

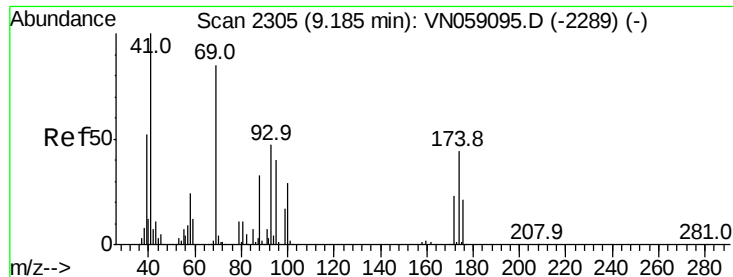


Abundance Ion 41.00 (40.70 to 41.70): VN059322.D (-2212) (-)

Ion 69.00 (68.70 to 69.70): VN059322.D (-2212) (-)

Ion 39.00 (38.70 to 39.70): VN059322.D (-2212) (-)

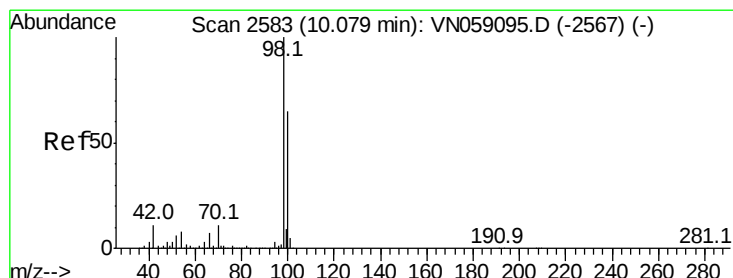
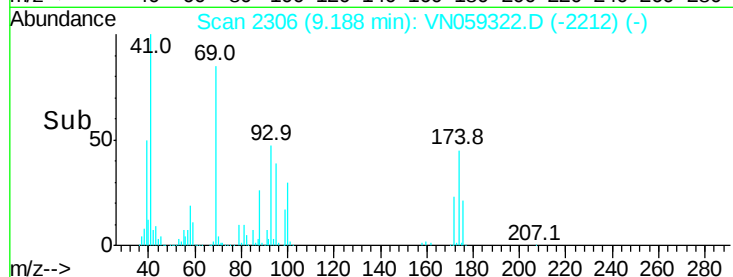
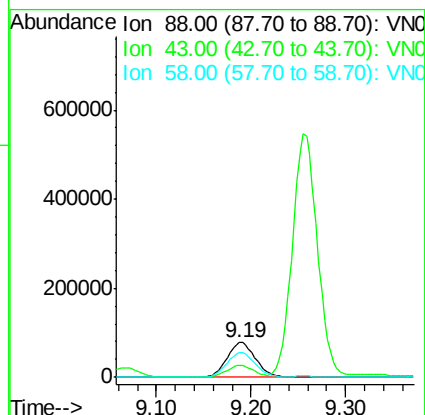
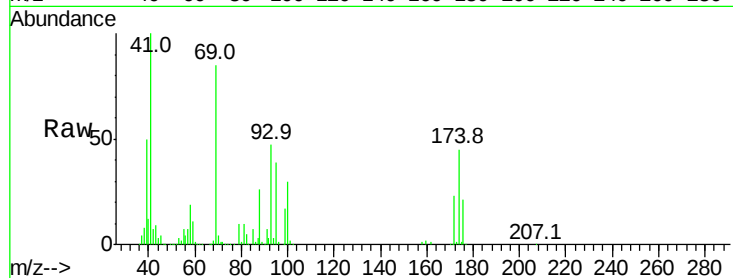




#49
 1,4-Dioxane
 Concen: 1890.670 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

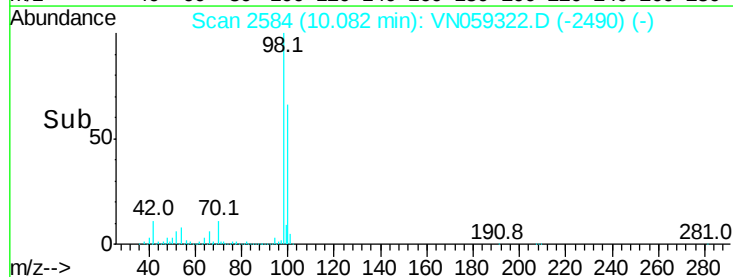
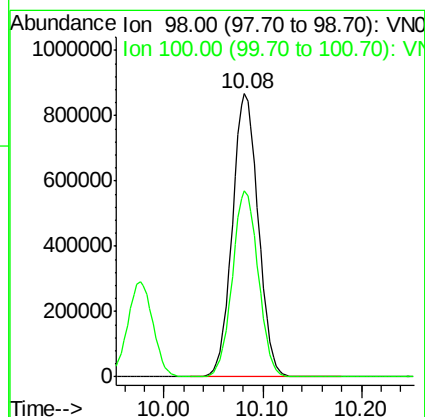
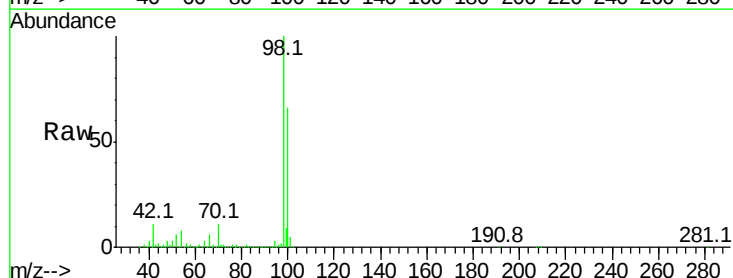
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

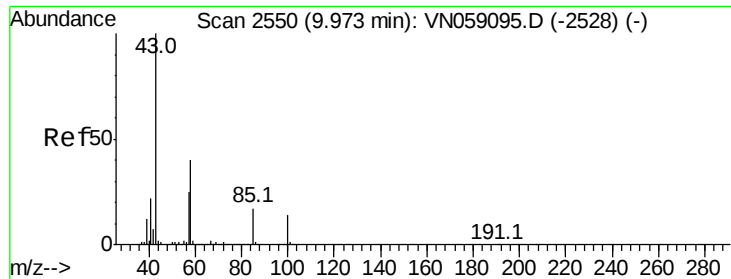
Tgt Ion: 88 Resp: 164052
 Ion Ratio Lower Upper
 88 100
 43 32.0 26.3 39.5
 58 71.9 60.6 90.8



#50
 Toluene-d8
 Concen: 102.558 ug/l
 RT: 10.08 min Scan# 2584
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion: 98 Resp: 1588239
 Ion Ratio Lower Upper
 98 100
 100 65.7 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 548.930 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

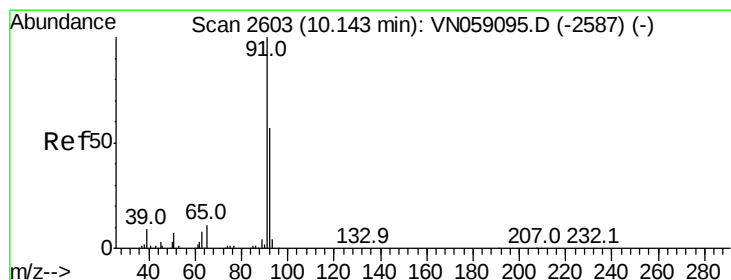
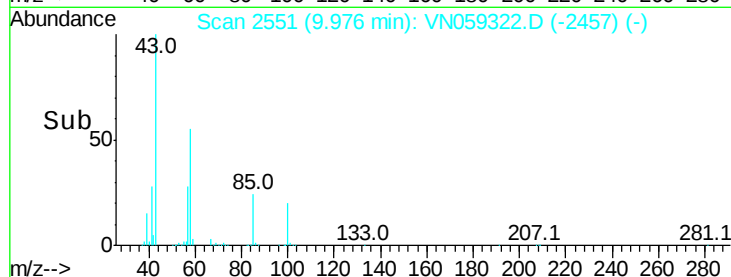
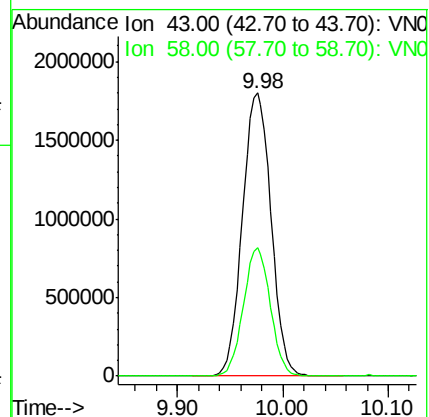
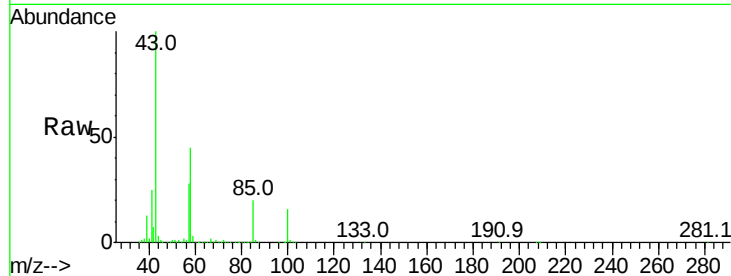
VSTDIC100

Tgt Ion: 43 Resp: 3390357

Ion Ratio Lower Upper

43 100

58 42.7 31.5 47.3



#52

Toluene

Concen: 109.605 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059322.D

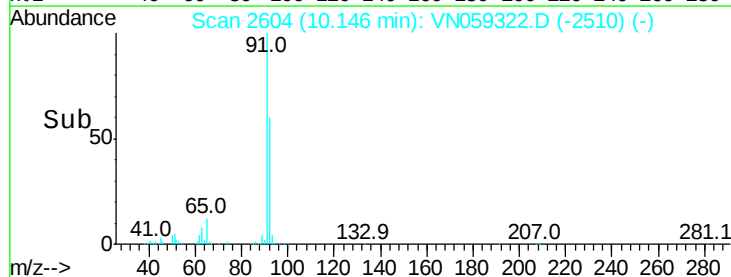
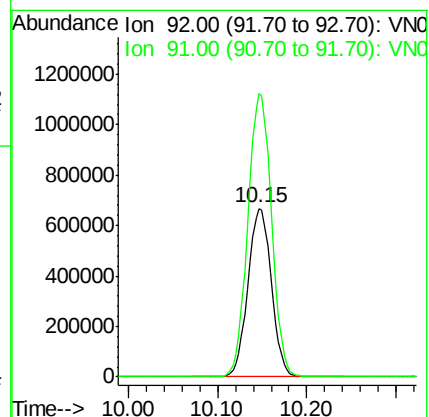
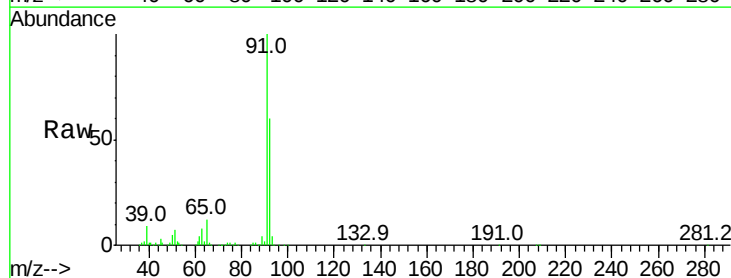
Acq: 20 Nov 2019 12:52

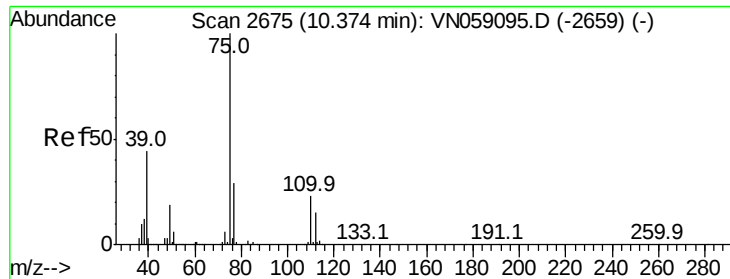
Tgt Ion: 92 Resp: 1217556

Ion Ratio Lower Upper

92 100

91 170.5 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 109.665 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

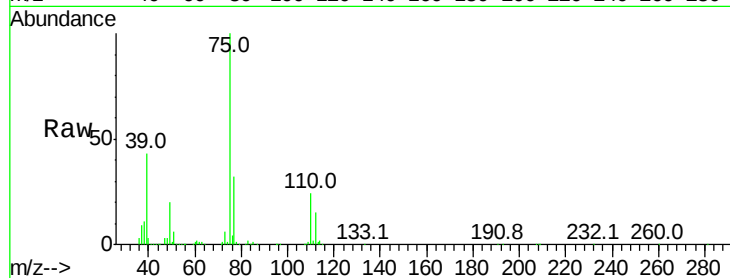
VSTDIC100

Tgt Ion: 75 Resp: 793646

Ion Ratio Lower Upper

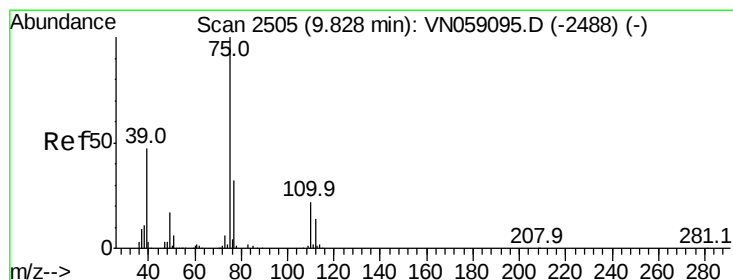
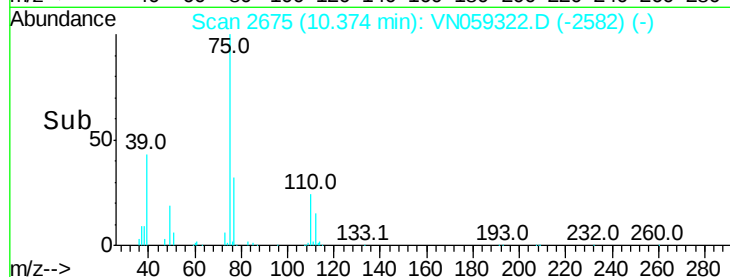
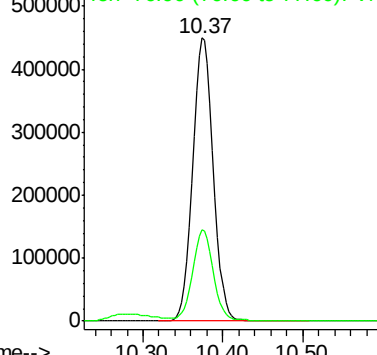
75 100

77 31.9 25.3 37.9



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 111.086 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

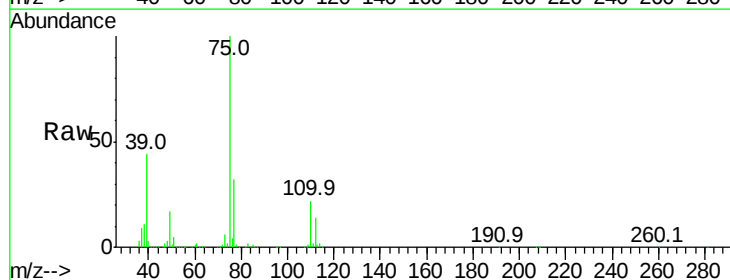
Tgt Ion: 75 Resp: 864770

Ion Ratio Lower Upper

75 100

77 31.6 25.5 38.3

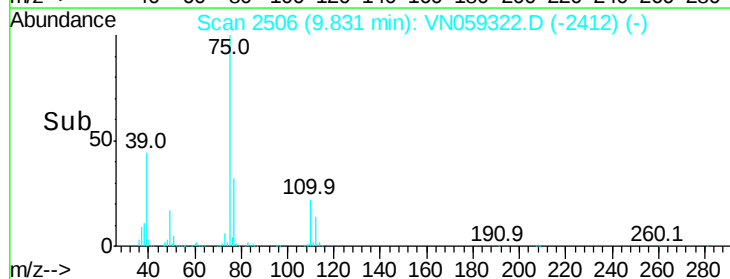
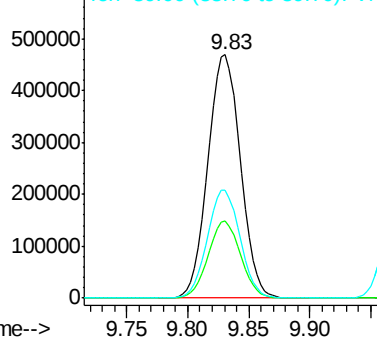
39 44.2 37.3 55.9

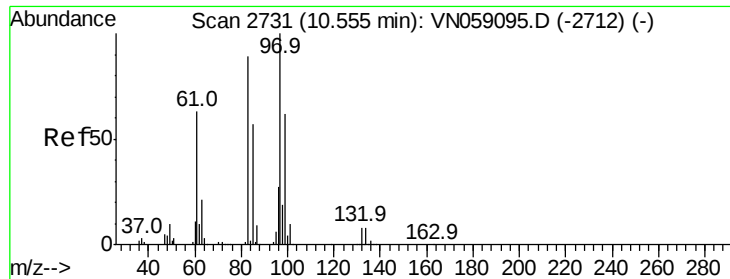


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 104.992 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 472014

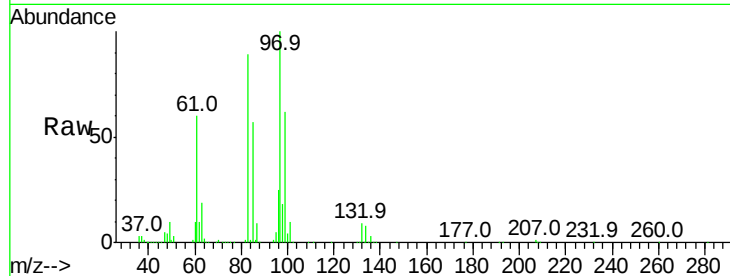
Ion Ratio Lower Upper

97 100

83 88.9 71.0 106.4

85 57.3 45.8 68.8

99 62.2 49.4 74.0

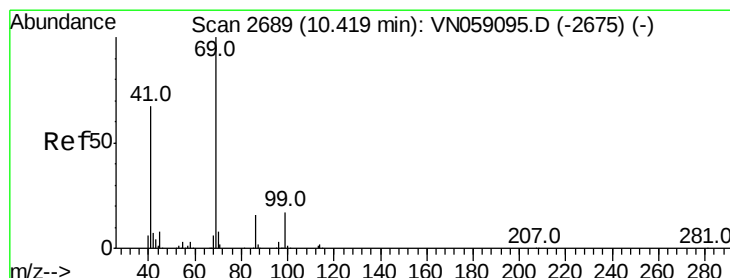
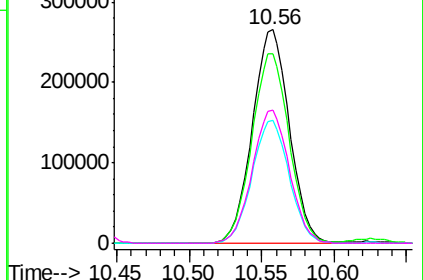
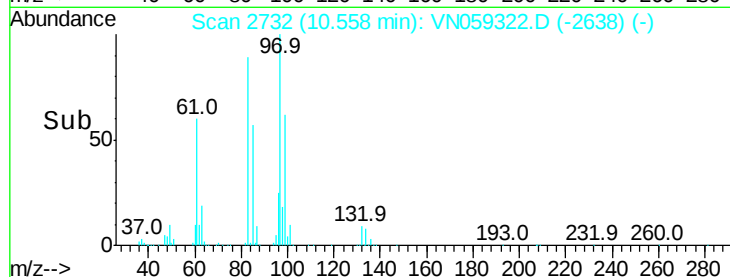


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 119.225 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

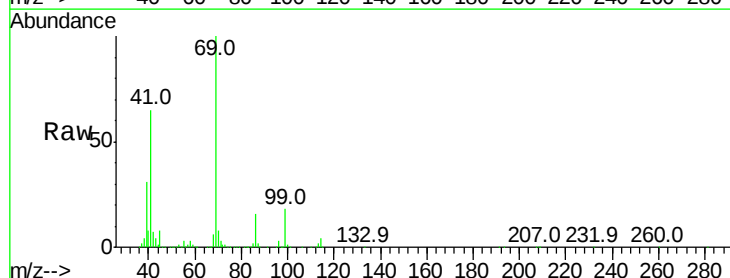
Tgt Ion: 69 Resp: 795622

Ion Ratio Lower Upper

69 100

41 64.6 53.6 80.4

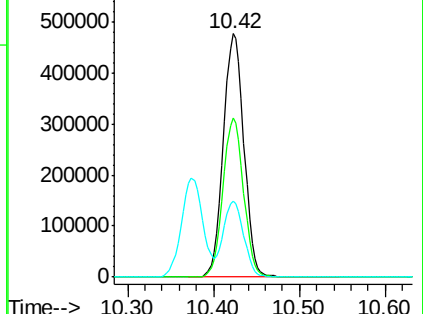
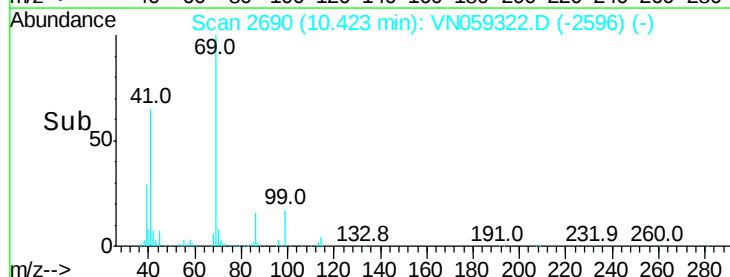
39 31.0 26.2 39.4

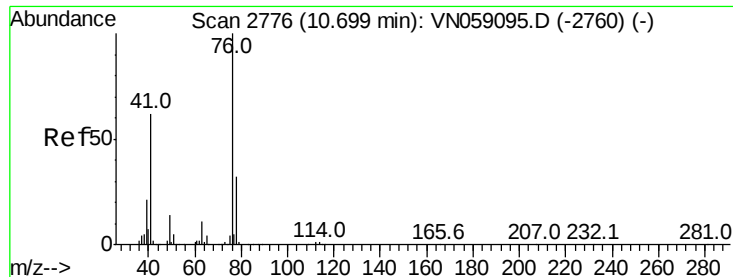


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 106.960 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

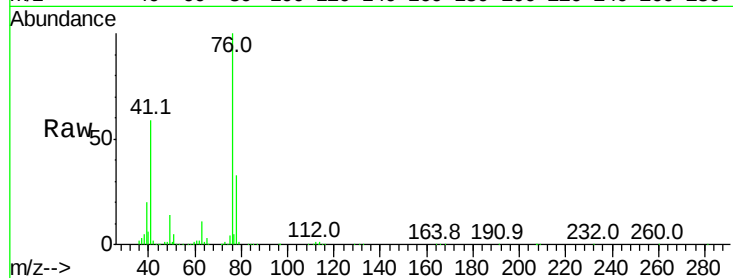
VSTDICC100

Tgt Ion: 76 Resp: 827615

Ion Ratio Lower Upper

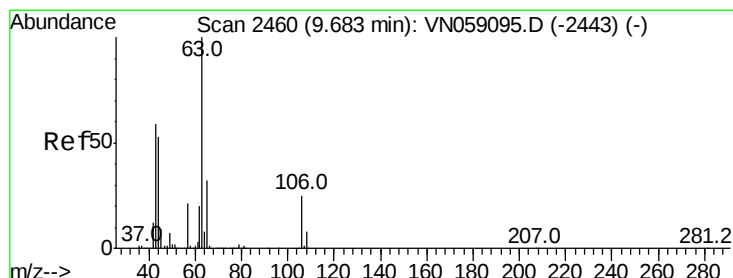
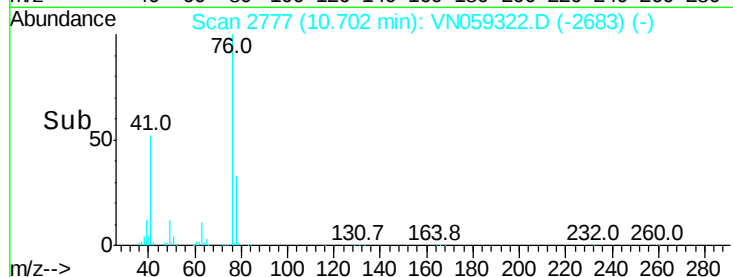
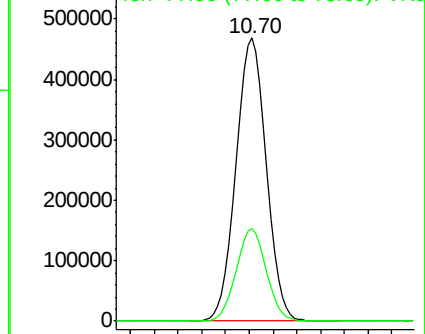
76 100

78 32.6 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 561.839 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059322.D

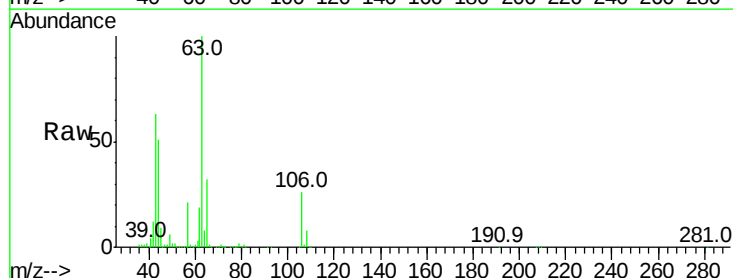
Acq: 20 Nov 2019 12:52

Tgt Ion: 63 Resp: 1405716

Ion Ratio Lower Upper

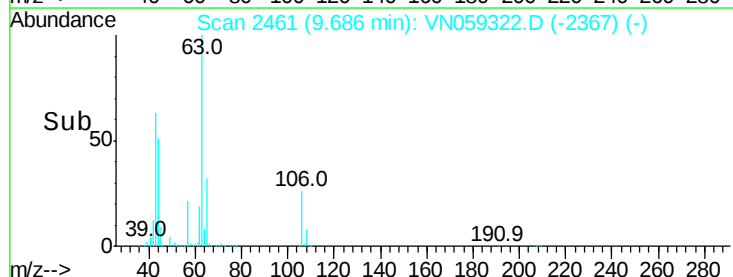
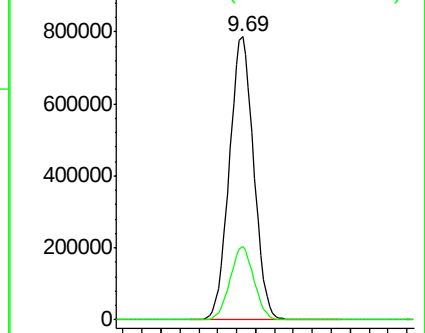
63 100

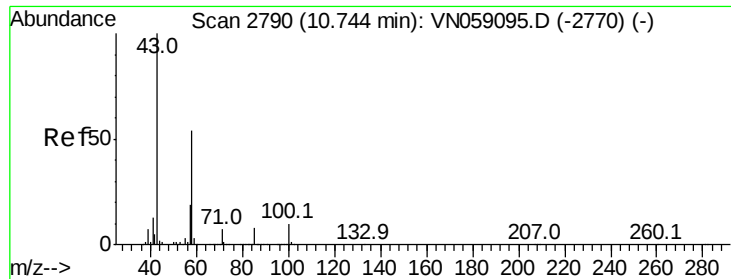
106 25.5 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

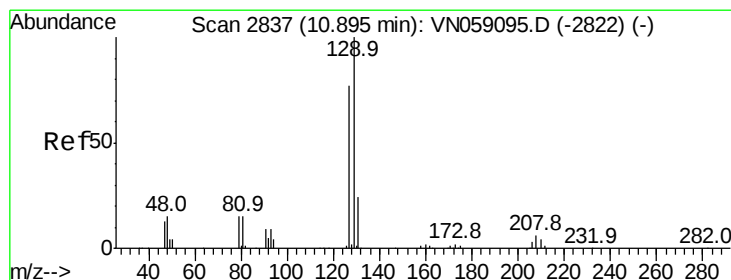
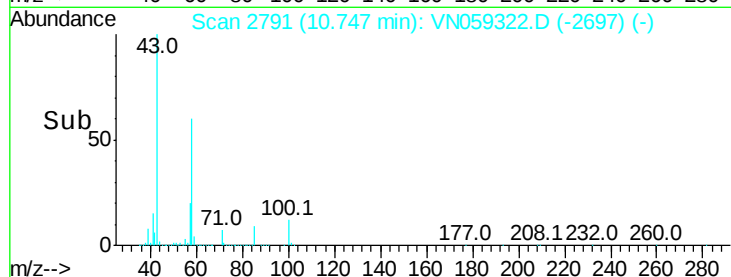
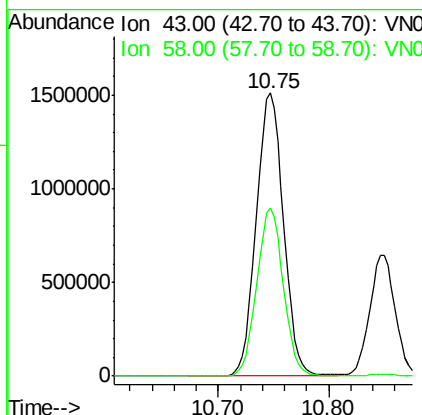
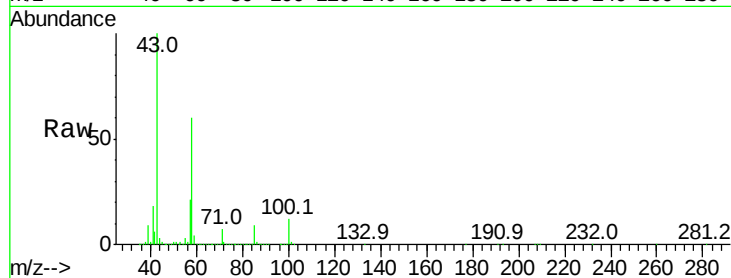




#59
2-Hexanone
Concen: 547.594 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

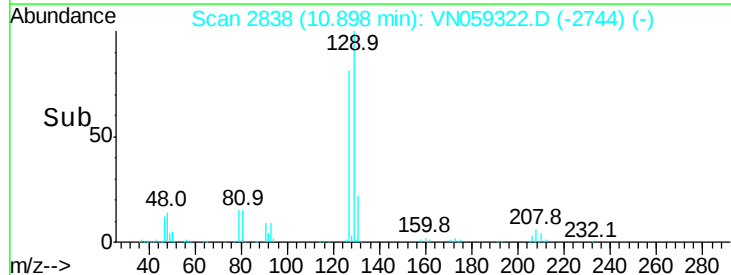
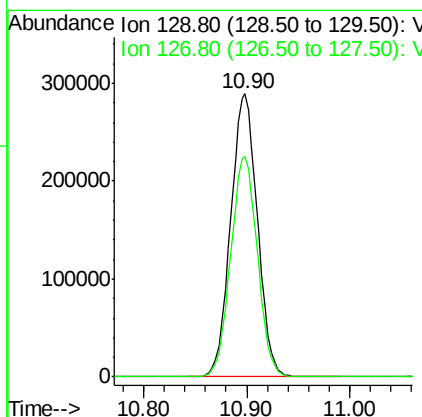
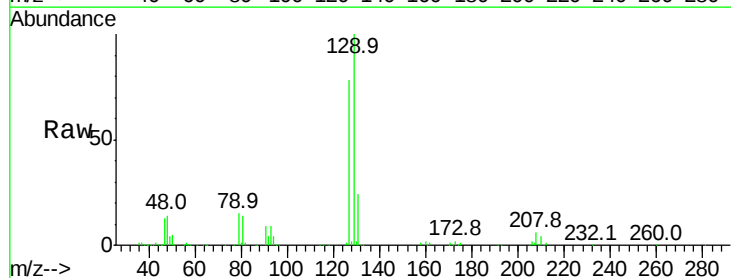
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

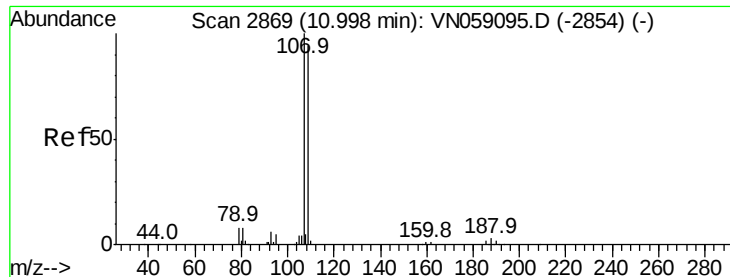
Tgt Ion: 43 Resp: 2595922
Ion Ratio Lower Upper
43 100
58 58.0 27.3 81.8



#60
Dibromochloromethane
Concen: 109.683 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Tgt Ion: 129 Resp: 521356
Ion Ratio Lower Upper
129 100
127 77.9 38.6 115.8





#61

1,2-Dibromoethane

Concen: 110.490 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

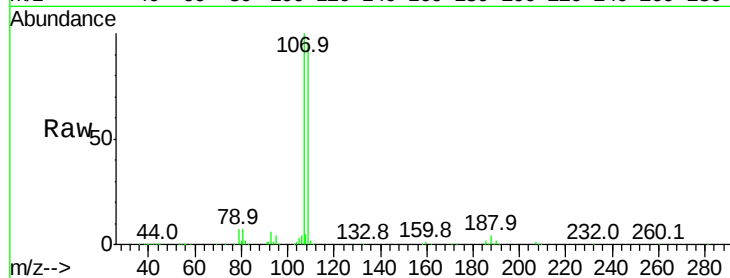
VSTDIC100

Tgt Ion: 107 Resp: 502851

Ion Ratio Lower Upper

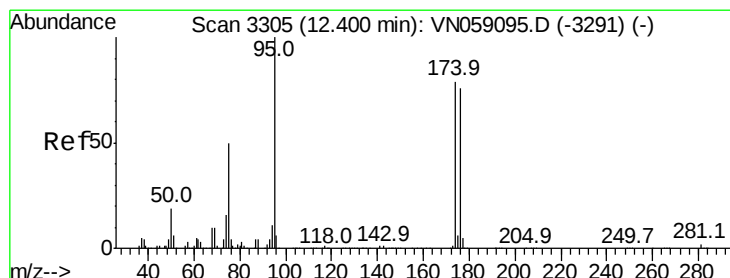
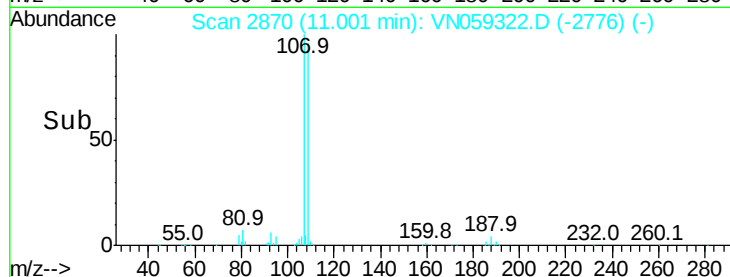
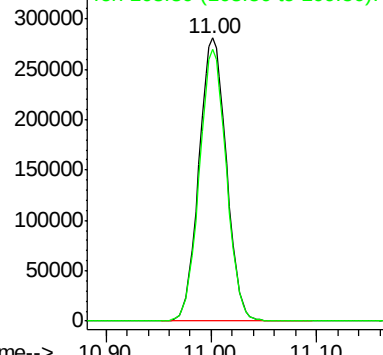
107 100

109 94.7 75.5 113.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 102.429 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

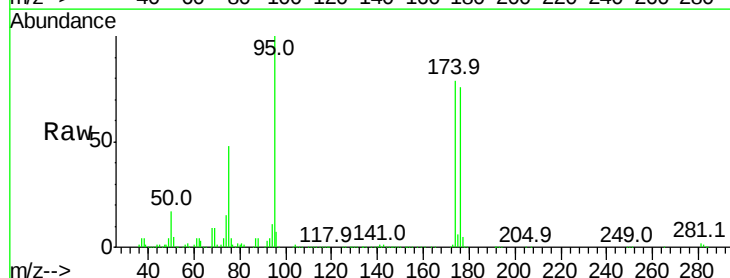
Tgt Ion: 95 Resp: 571941

Ion Ratio Lower Upper

95 100

174 77.7 0.0 158.2

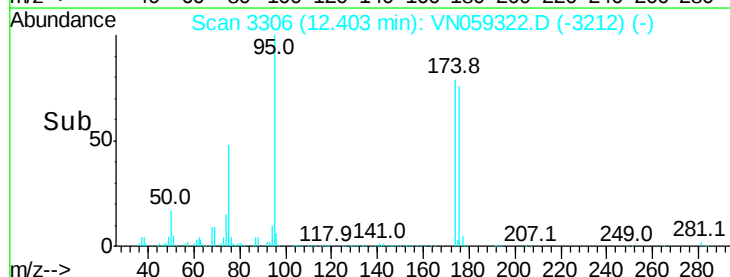
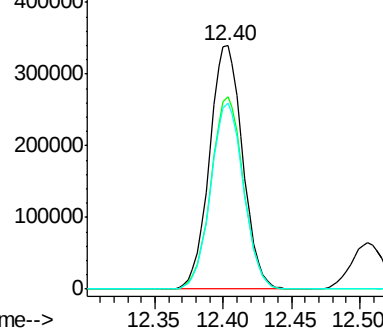
176 75.7 0.0 151.8

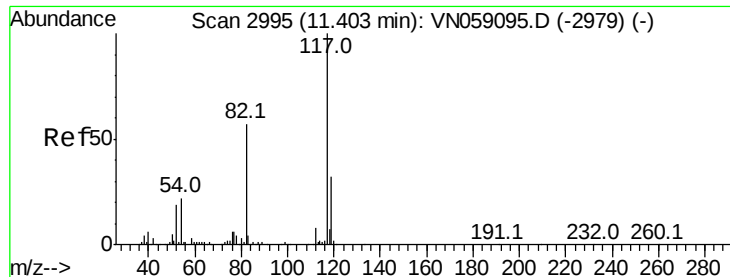


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

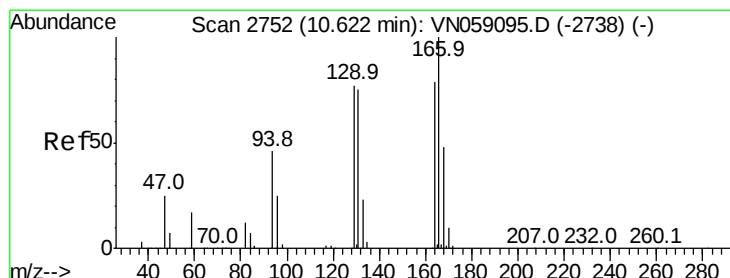
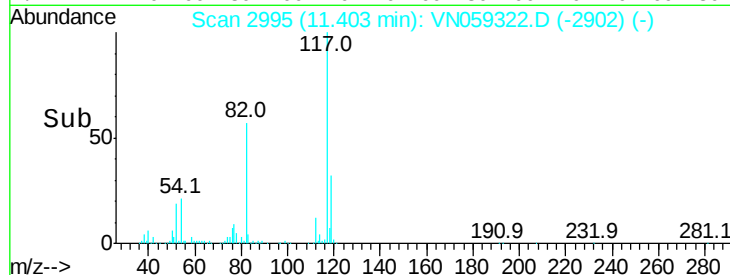
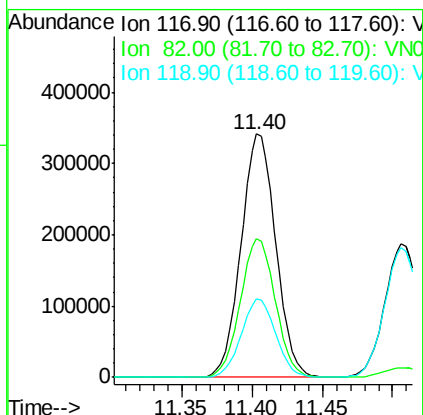
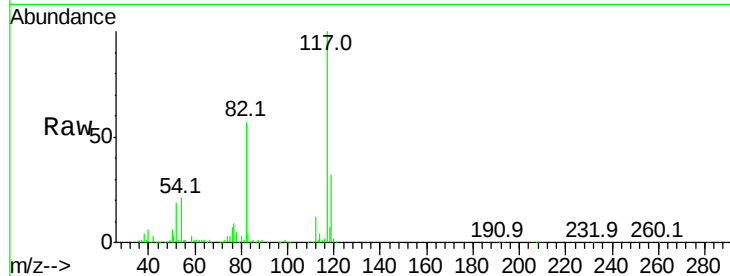




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

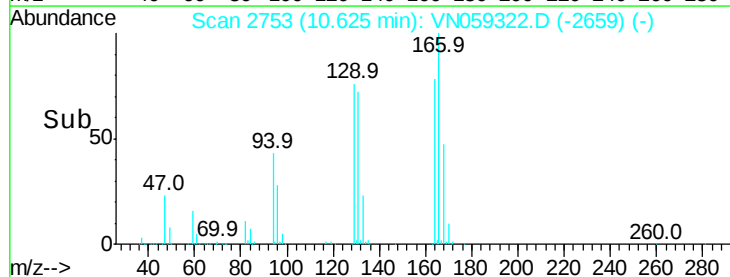
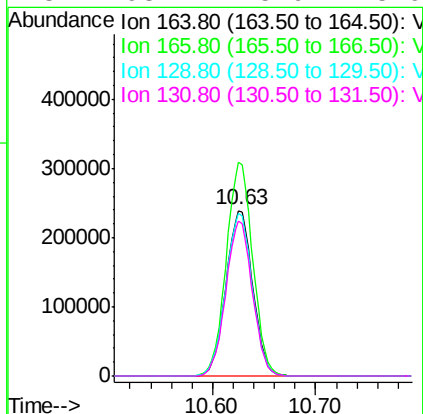
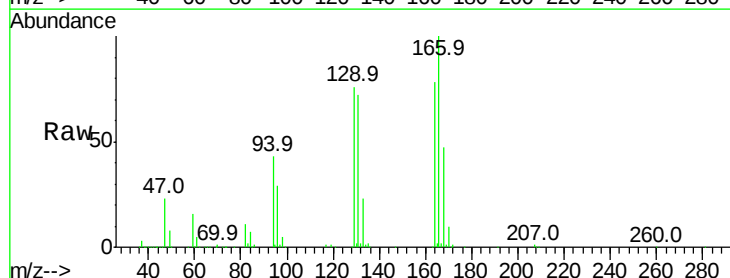
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

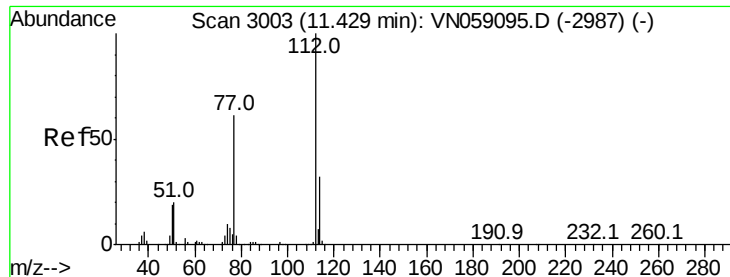
Tgt Ion:117 Resp: 589256
Ion Ratio Lower Upper
117 100
82 57.0 45.8 68.8
119 32.2 25.8 38.6



#64
Tetrachloroethene
Concen: 107.764 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Tgt Ion:164 Resp: 431794
Ion Ratio Lower Upper
164 100
166 128.9 101.5 152.3
129 98.4 78.3 117.5
131 93.4 75.9 113.9





#65

Chlorobenzene

Concen: 109.792 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

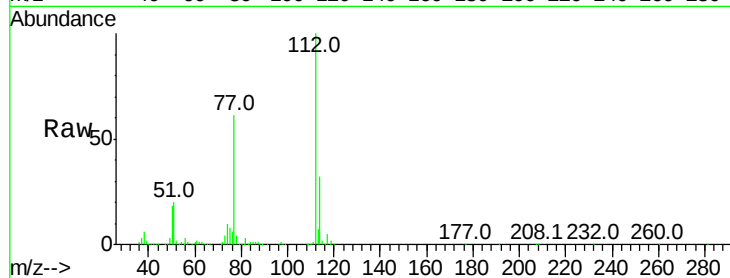
VSTDIC100

Tgt Ion:112 Resp: 1261175

Ion Ratio Lower Upper

112 100

114 31.9 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

800000

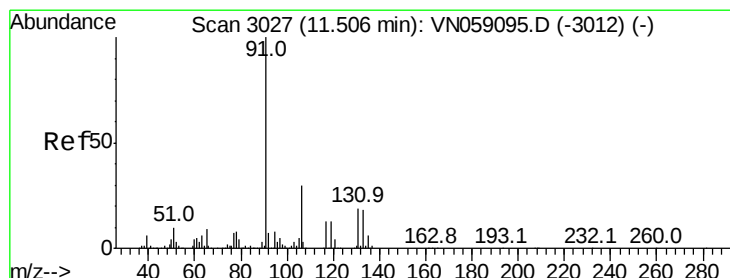
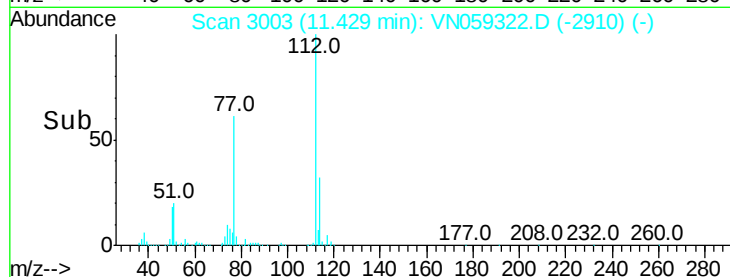
600000

400000

200000

0

Time--> 11.40 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 108.692 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

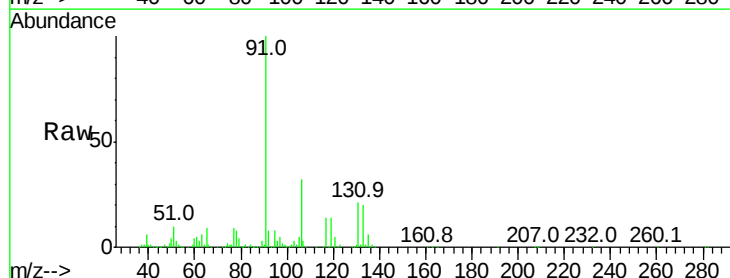
Tgt Ion:131 Resp: 468354

Ion Ratio Lower Upper

131 100

133 96.0 47.4 142.3

119 67.6 33.2 99.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

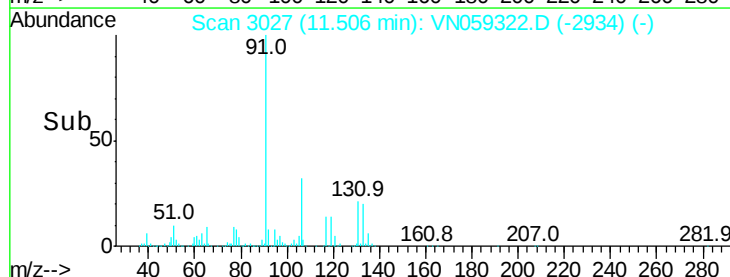
300000

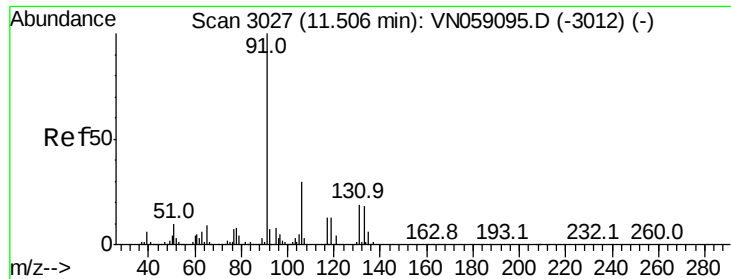
200000

100000

0

Time--> 11.40 11.50 11.60





#67

Ethyl Benzene

Concen: 111.453 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

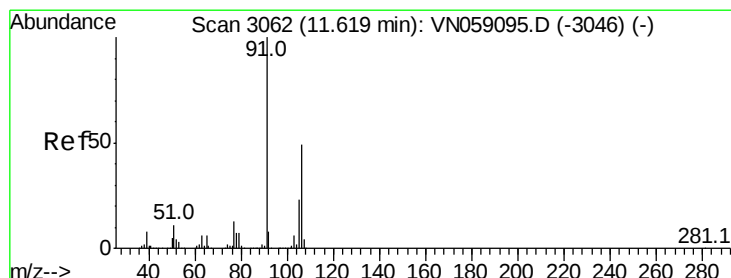
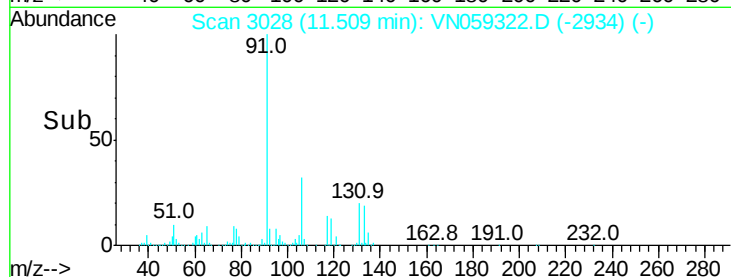
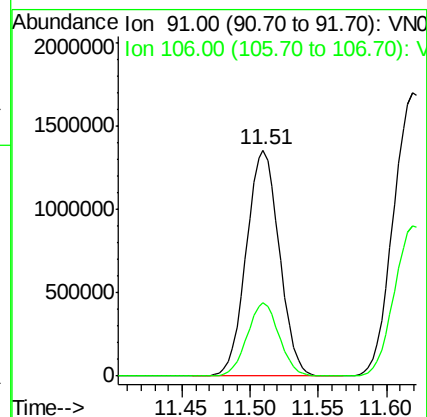
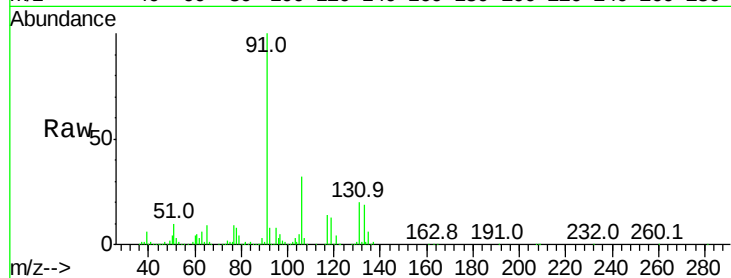
VSTDIC100

Tgt Ion: 91 Resp: 2271451

Ion Ratio Lower Upper

91 100

106 32.2 24.1 36.1



#68

m/p-Xylenes

Concen: 227.203 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059322.D

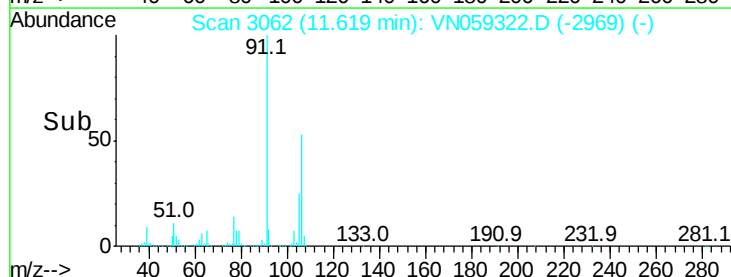
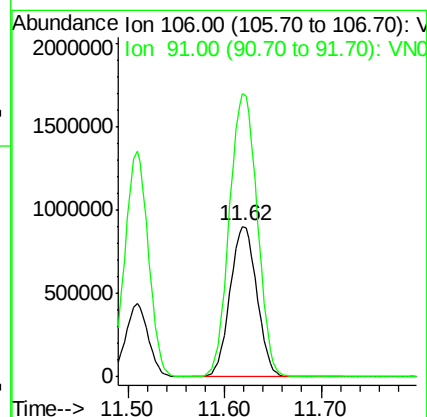
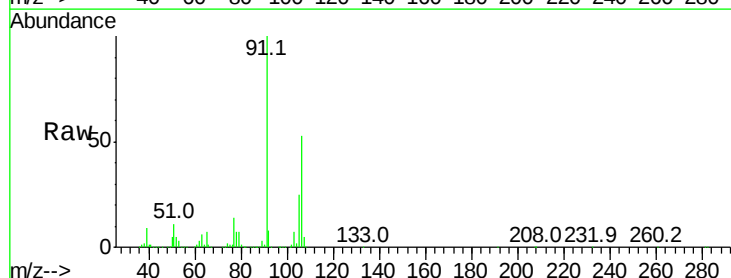
Acq: 20 Nov 2019 12:52

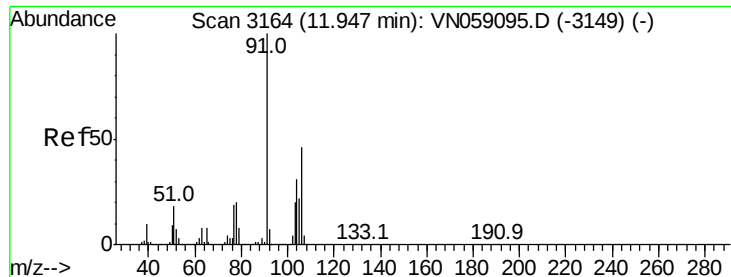
Tgt Ion: 106 Resp: 1734520

Ion Ratio Lower Upper

106 100

91 195.6 164.7 247.1





#69

o-Xylene

Concen: 112.003 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

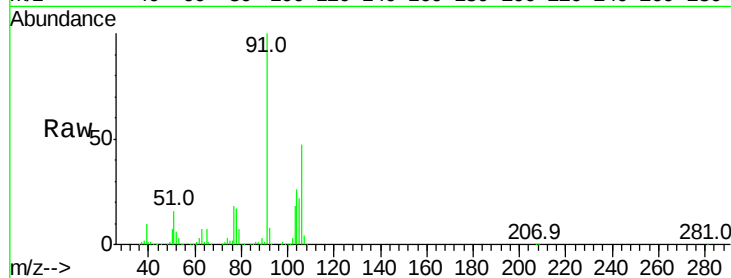
VSTDIC100

Tgt Ion:106 Resp: 826325

Ion Ratio Lower Upper

106 100

91 213.8 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

1200000

1000000

800000

600000

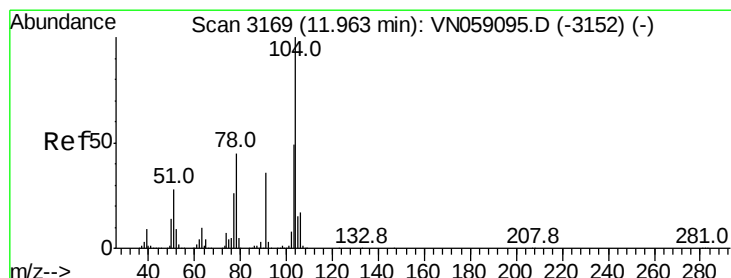
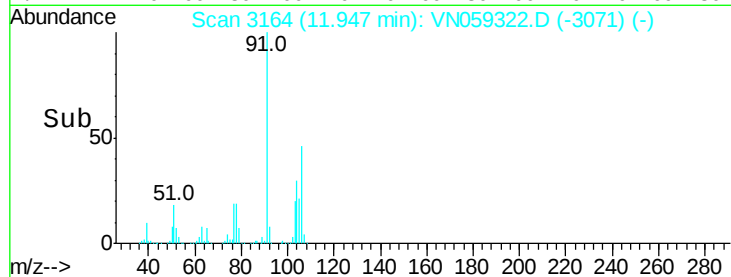
400000

200000

0

11.95

Time-->



#70

Styrene

Concen: 119.481 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

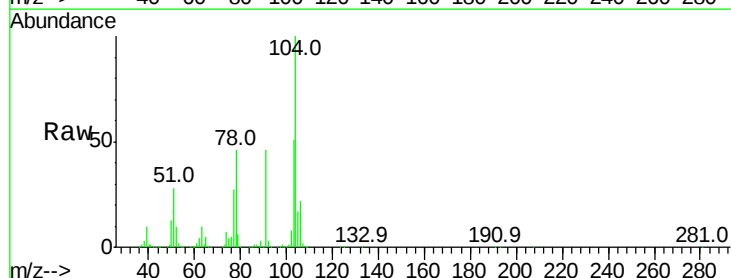
Tgt Ion:104 Resp: 1386358

Ion Ratio Lower Upper

104 100

78 50.2 41.2 61.8

103 54.8 43.8 65.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

1000000

800000

600000

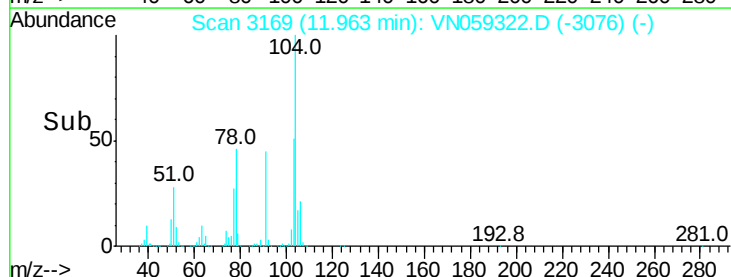
400000

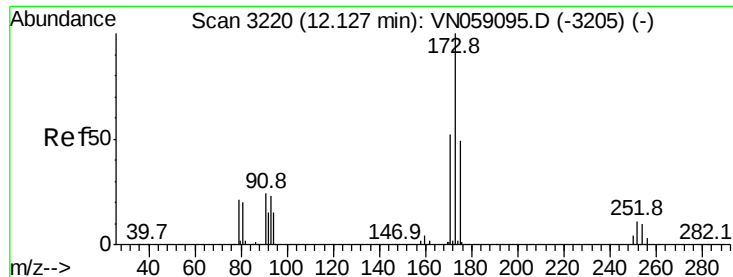
200000

0

11.96

Time-->





#71

Bromoform

Concen: 114.848 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

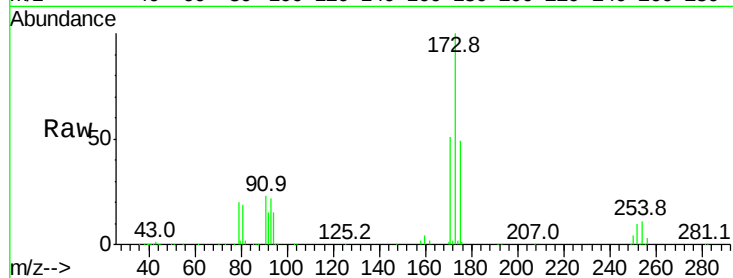
Tgt Ion:173 Resp: 384937

Ion Ratio Lower Upper

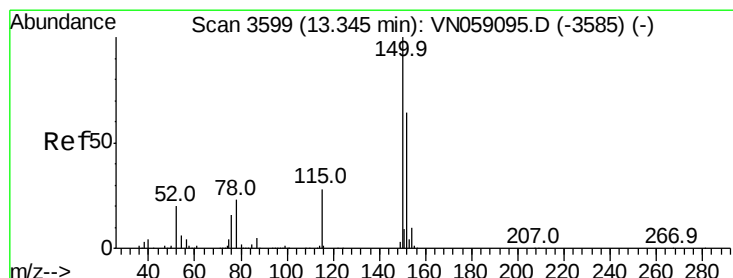
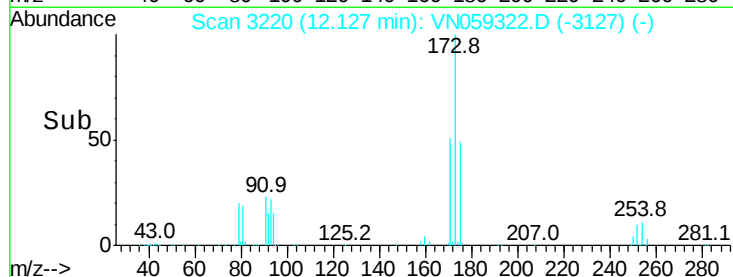
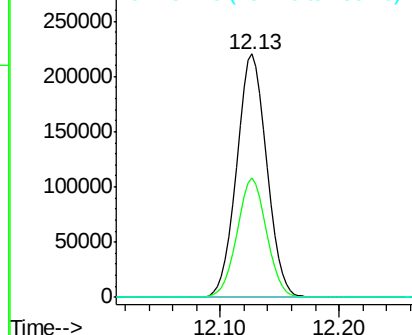
173 100

175 48.2 24.2 72.6

254 0.1 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: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

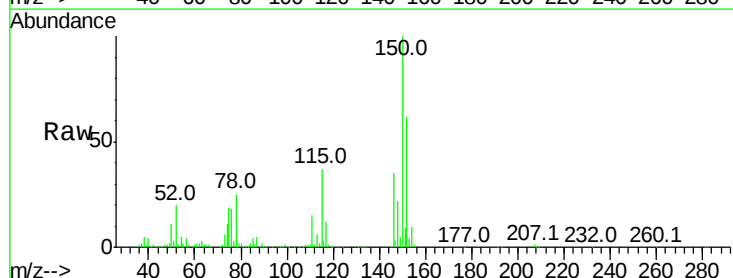
Tgt Ion:152 Resp: 283930

Ion Ratio Lower Upper

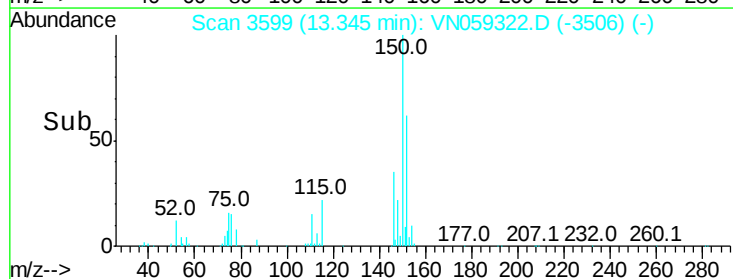
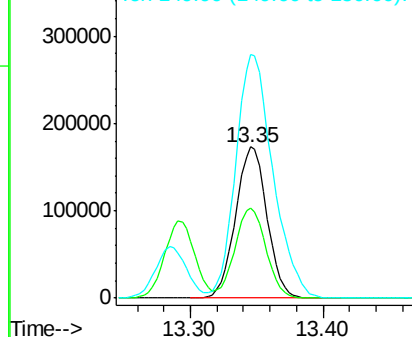
152 100

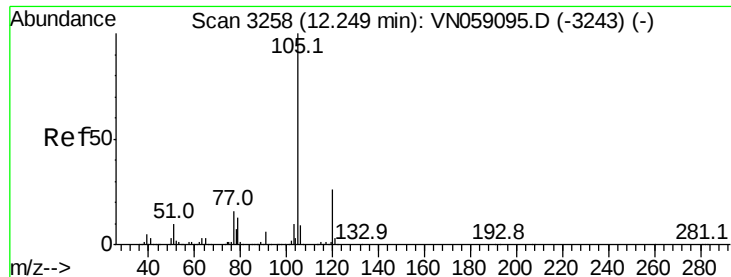
115 59.2 29.4 88.2

150 190.1 0.0 345.8



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





#73

Isopropylbenzene

Concen: 105.737 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

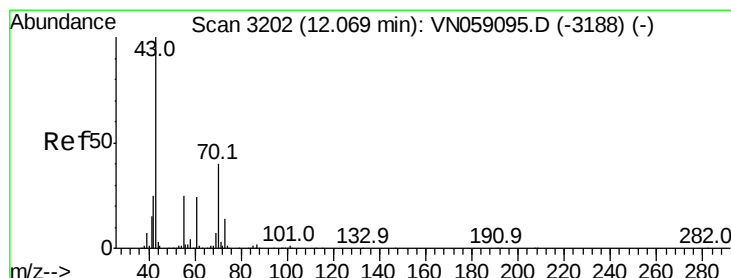
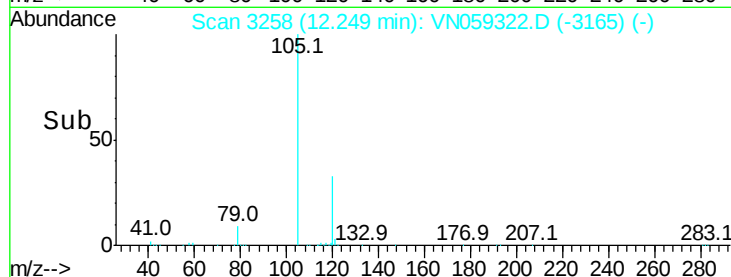
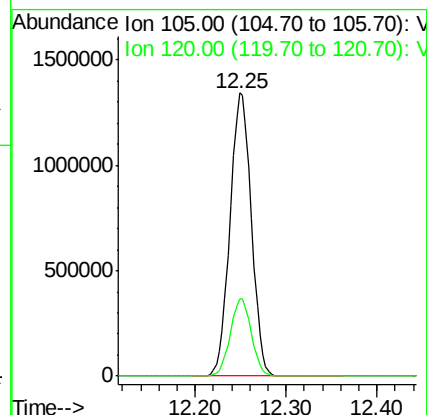
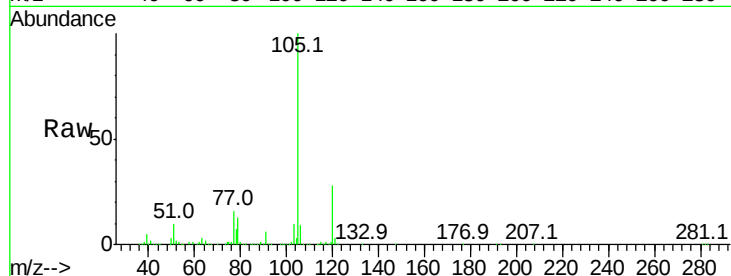
VSTDIC100

Tgt Ion:105 Resp: 2183805

Ion Ratio Lower Upper

105 100

120 27.0 13.1 39.3



#74

N-ethyl acetate

Concen: 112.203 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Tgt Ion: 43 Resp: 981950

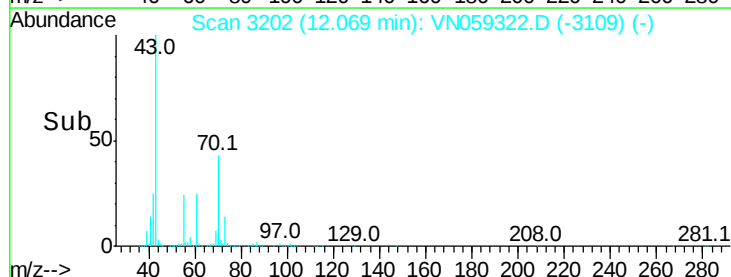
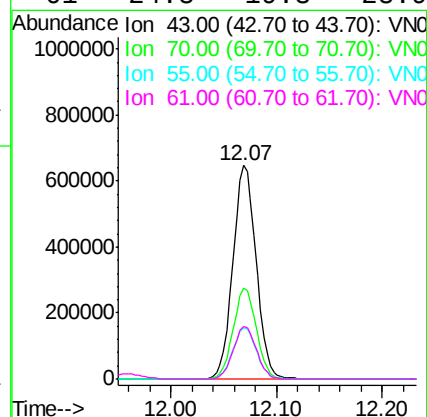
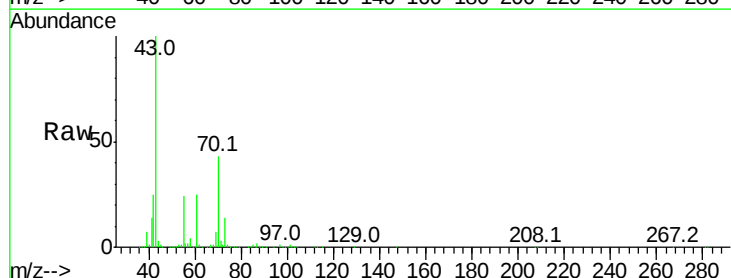
Ion Ratio Lower Upper

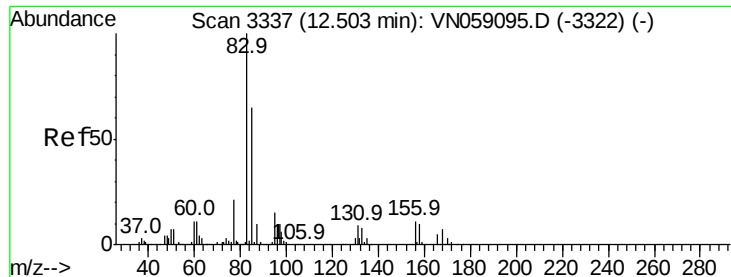
43 100

70 42.6 32.2 48.4

55 24.6 20.4 30.6

61 24.8 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 102.569 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

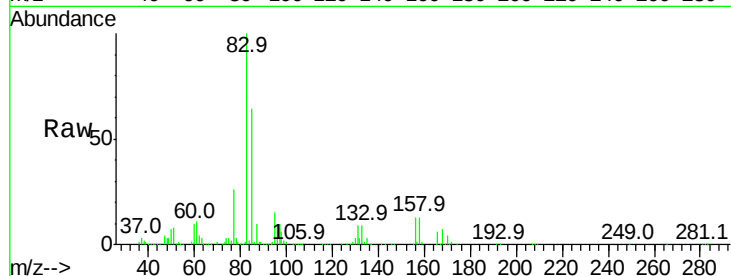
Tgt Ion: 83 Resp: 721406

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.6

85 64.6 32.4 97.2



Abundance Ion 82.90 (82.60 to 83.60): VN059322.D (-3337) (-)

Ion 130.80 (130.50 to 131.50): VN059322.D (-3337) (-)

Ion 84.90 (84.60 to 85.60): VN059322.D (-3337) (-)

12.51

400000

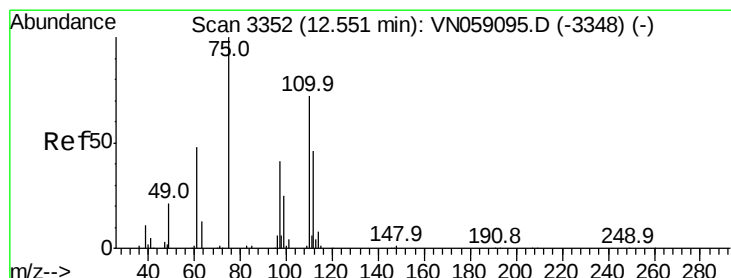
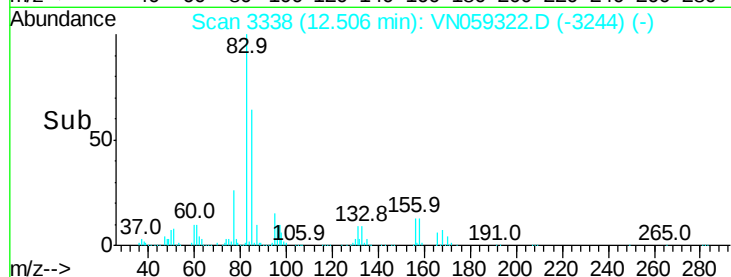
300000

200000

100000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 151.454 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN059322.D

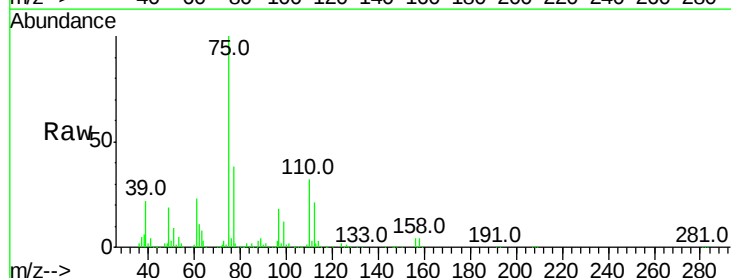
Acq: 20 Nov 2019 12:52

Tgt Ion: 75 Resp: 979017

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN059322.D (-3352) (-)

Ion 77.00 (76.70 to 77.70): VN059322.D (-3352) (-)

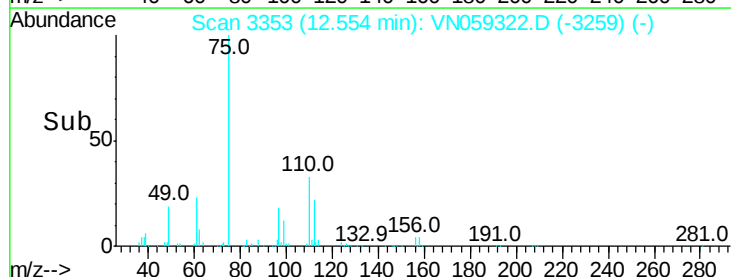
600000

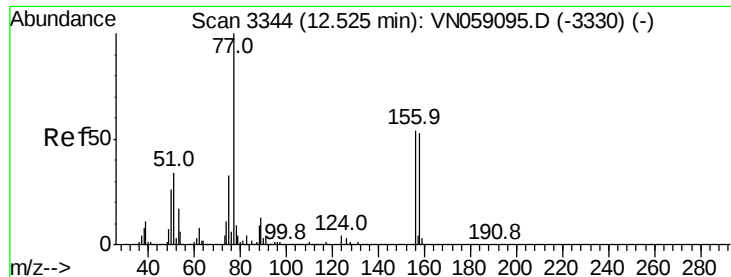
400000

200000

0

Time-->





#77

Bromobenzene

Concen: 102.253 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

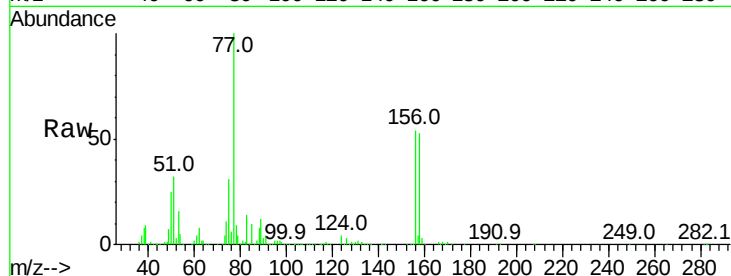
Tgt Ion:156 Resp: 530584

Ion Ratio Lower Upper

156 100

77 224.6 112.8 338.3

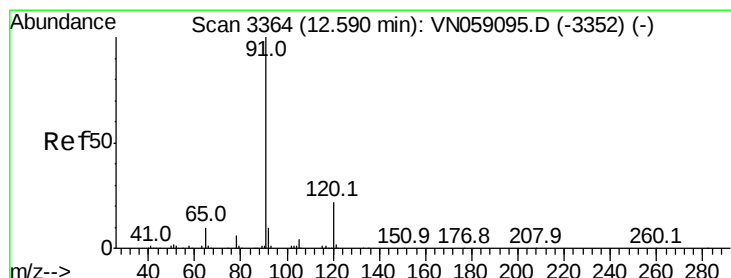
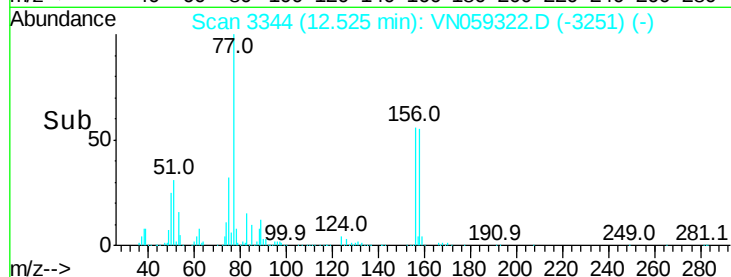
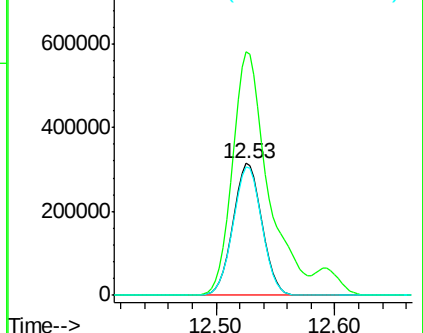
158 97.2 48.4 145.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.30): VN0

Ion 157.80 (157.50 to 158.10): V



#78

n-propylbenzene

Concen: 107.651 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059322.D

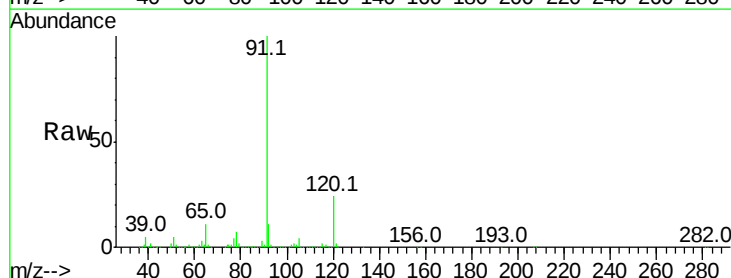
Acq: 20 Nov 2019 12:52

Tgt Ion: 91 Resp: 2545703

Ion Ratio Lower Upper

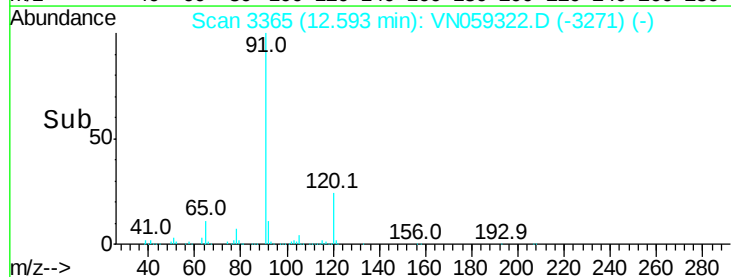
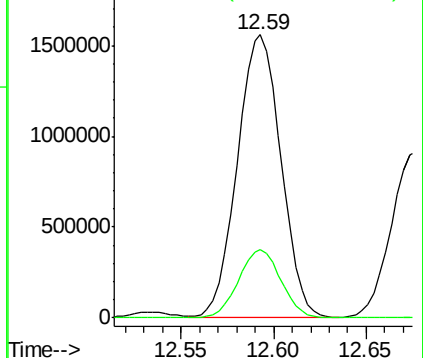
91 100

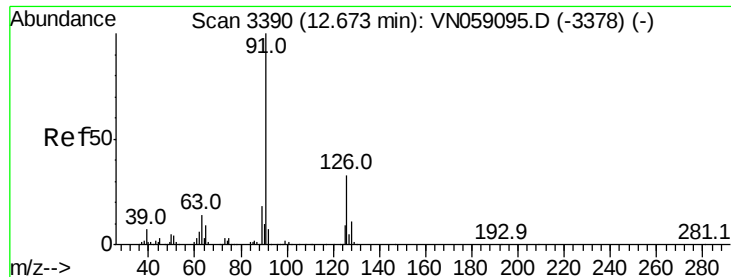
120 23.4 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.30): VN0

Ion 120.00 (119.70 to 120.30): V





#79

2-Chlorotoluene

Concen: 103.205 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

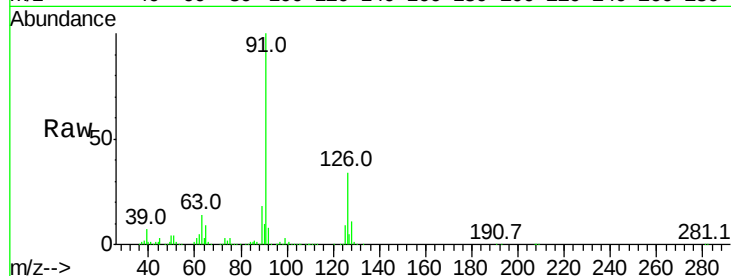
VSTDIC100

Tgt Ion: 91 Resp: 1514020

Ion Ratio Lower Upper

91 100

126 33.4 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN059095.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059095.D (-3378) (-)

1500000

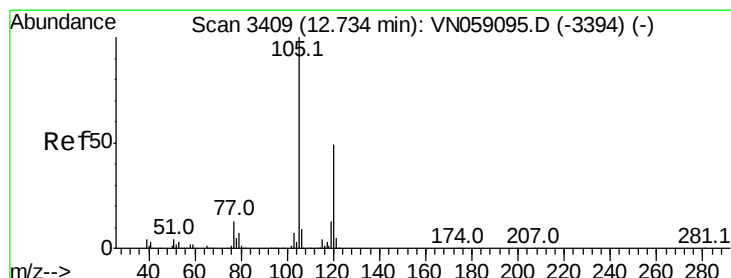
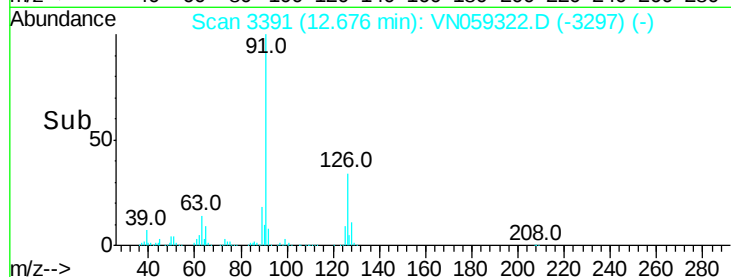
1000000

500000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 106.017 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059322.D

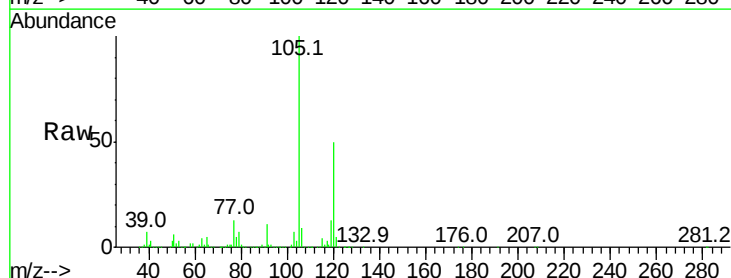
Acq: 20 Nov 2019 12:52

Tgt Ion: 105 Resp: 1855358

Ion Ratio Lower Upper

105 100

120 49.4 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059095.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059095.D (-3394) (-)

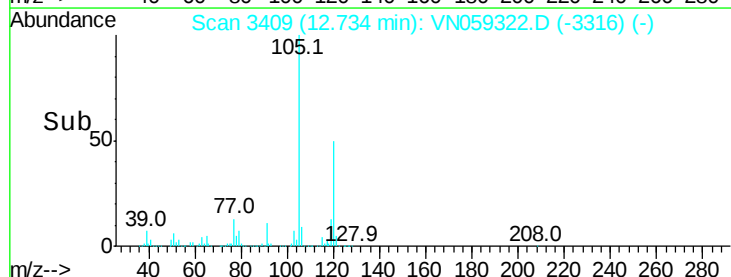
1000000

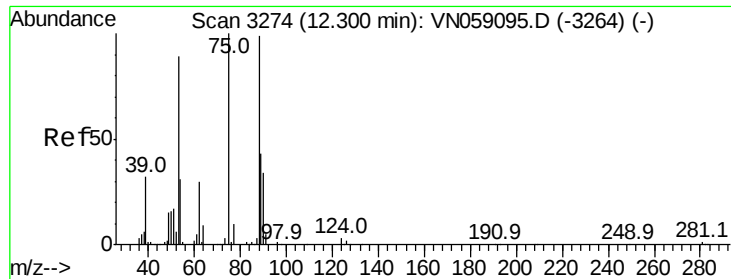
500000

0

12.65 12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 112.757 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

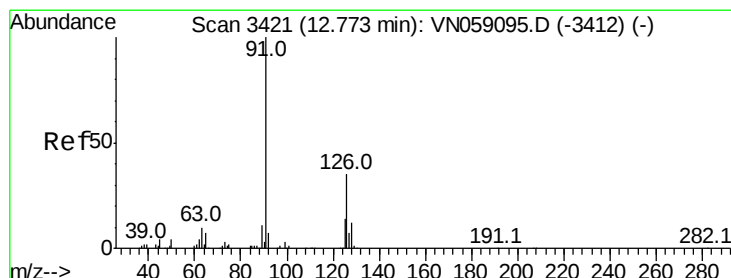
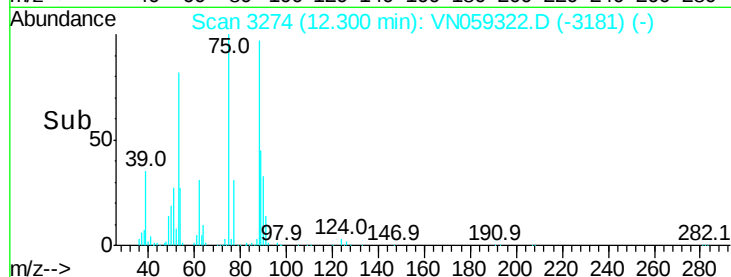
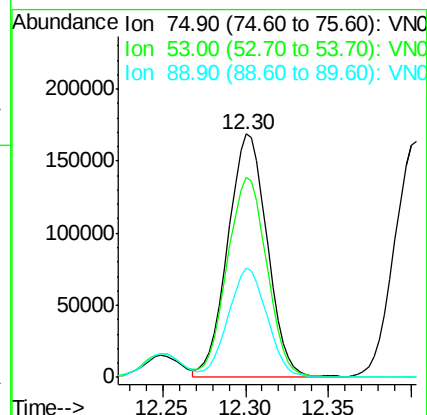
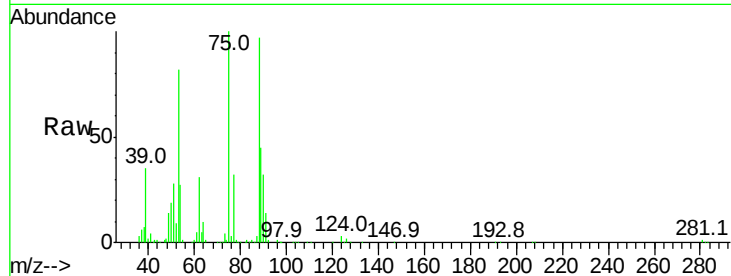
Tgt Ion: 75 Resp: 275957

Ion Ratio Lower Upper

75 100

53 84.1 72.2 108.2

89 44.6 35.8 53.8



#82

4-Chlorotoluene

Concen: 106.124 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN059322.D

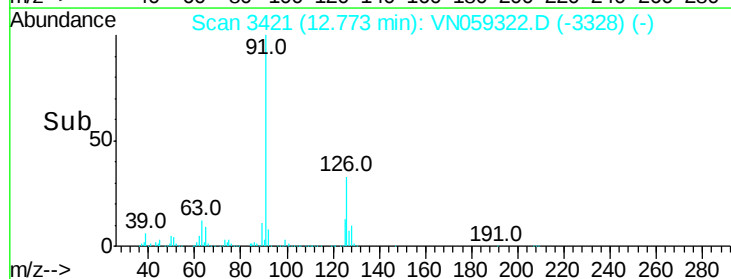
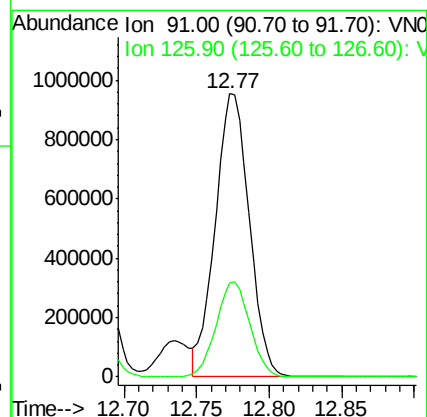
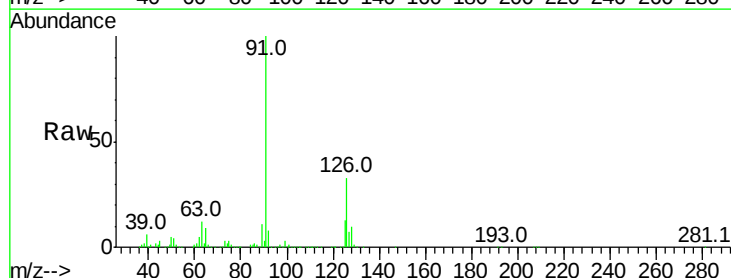
Acq: 20 Nov 2019 12:52

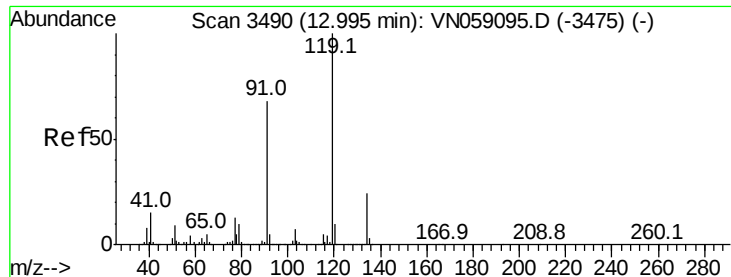
Tgt Ion: 91 Resp: 1561471

Ion Ratio Lower Upper

91 100

126 33.3 16.1 48.2

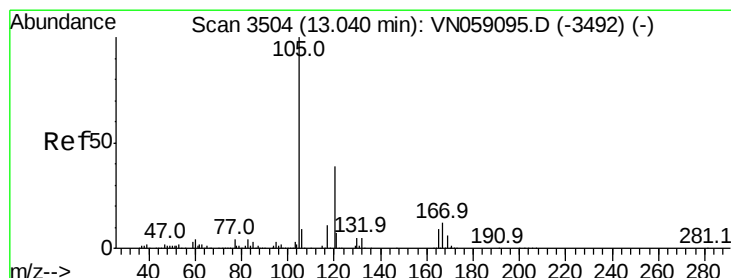
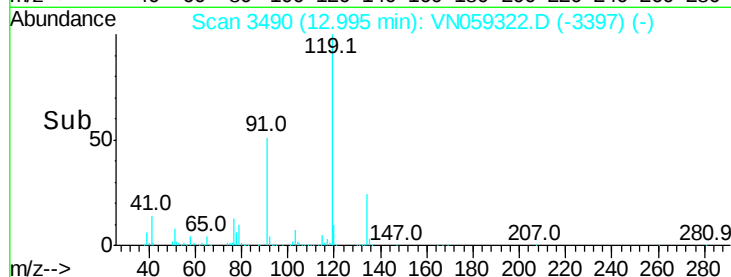
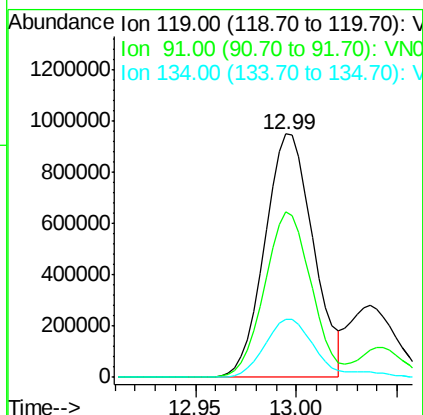
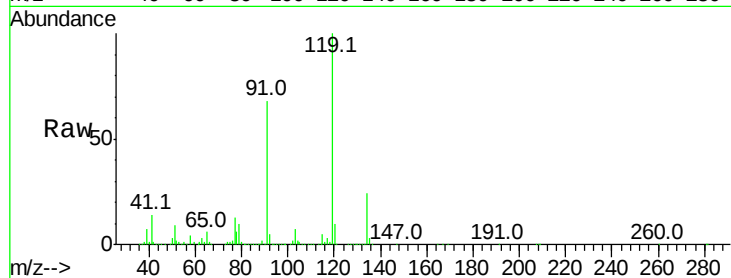




#83
 tert-Butylbenzene
 Concen: 104.827 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

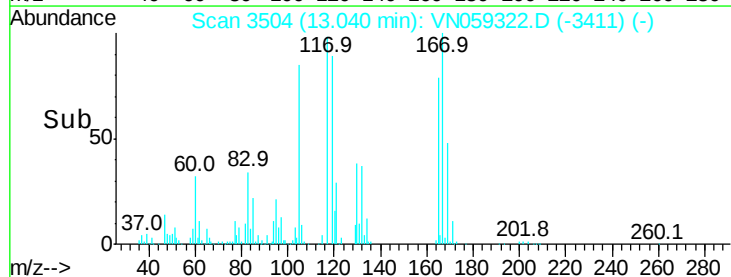
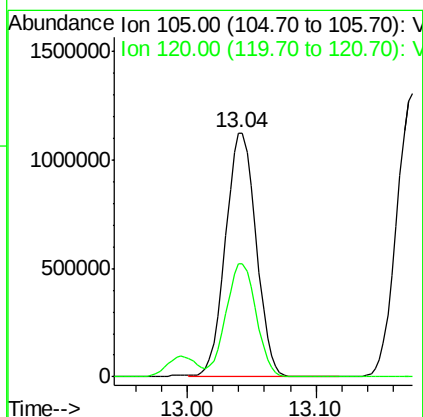
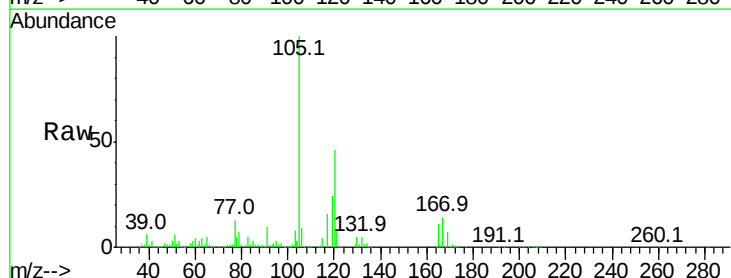
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

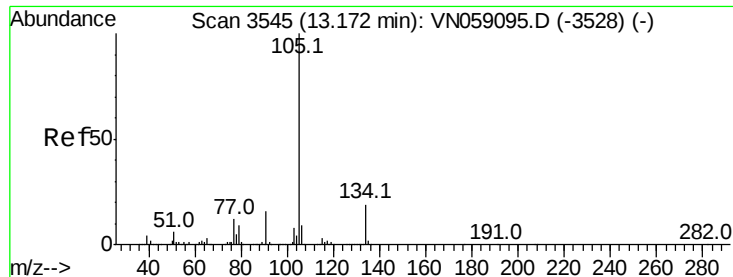
Tgt Ion:119 Resp: 1584265
 Ion Ratio Lower Upper
 119 100
 91 65.7 33.2 99.6
 134 25.6 12.7 38.1



#84
 1,2,4-Trimethylbenzene
 Concen: 109.017 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion:105 Resp: 1845838
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.8 68.4





#85

sec-Butylbenzene

Concen: 108.330 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

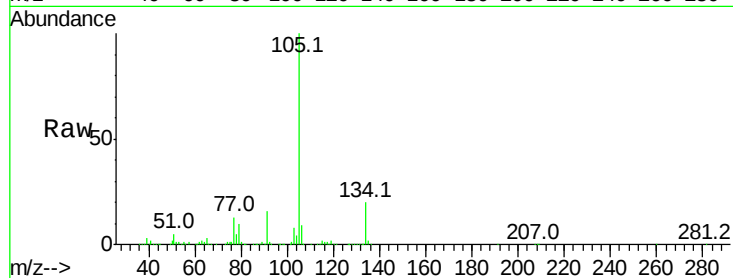
VSTDIC100

Tgt Ion:105 Resp: 2129244

Ion Ratio Lower Upper

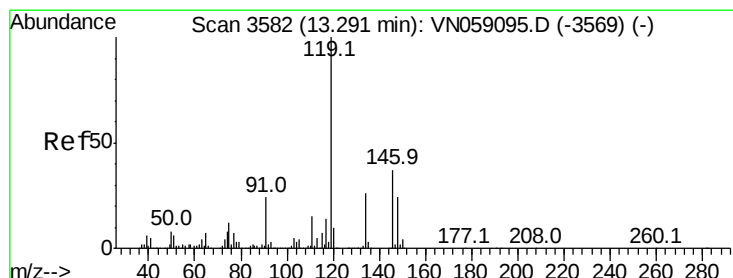
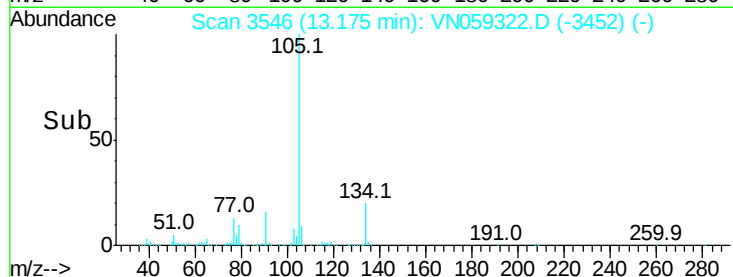
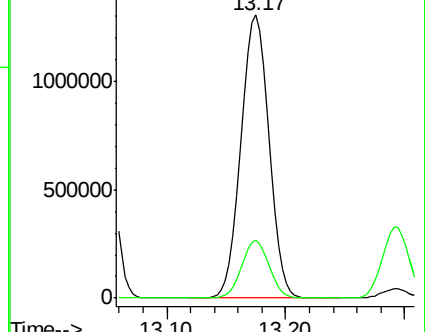
105 100

134 20.0 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 111.721 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

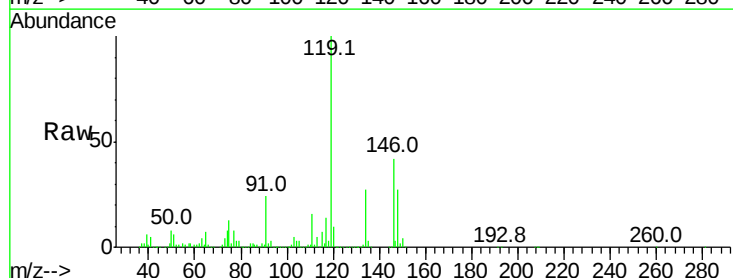
Tgt Ion:119 Resp: 1938908

Ion Ratio Lower Upper

119 100

134 26.5 13.0 38.9

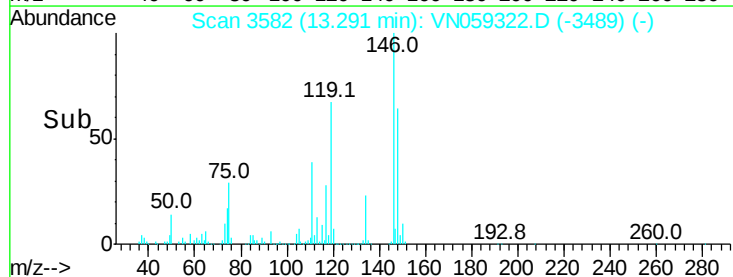
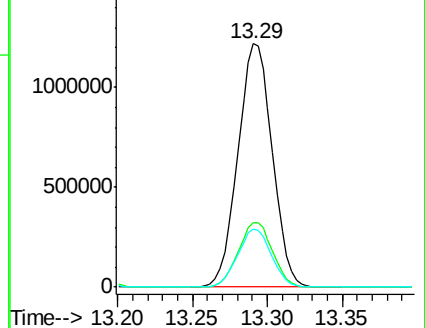
91 23.6 11.7 35.1

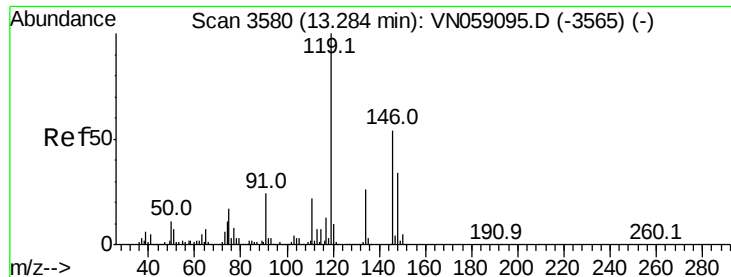


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 107.393 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

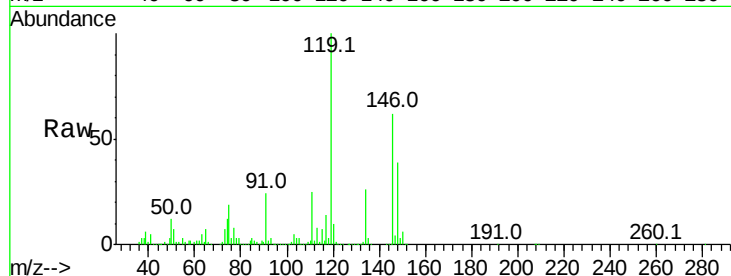
Tgt Ion:146 Resp: 954248

Ion Ratio Lower Upper

146 100

111 40.5 20.4 61.3

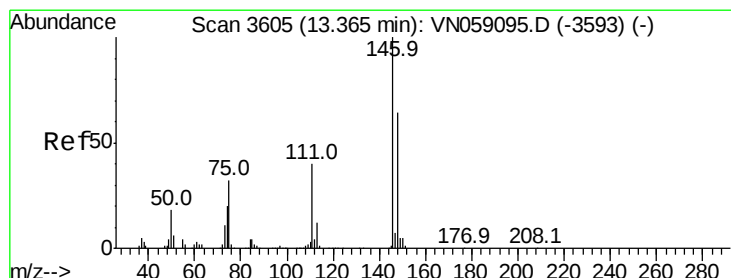
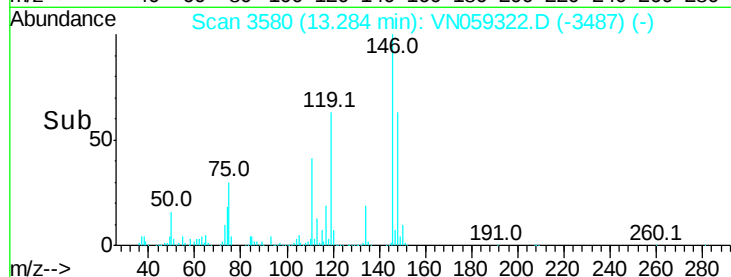
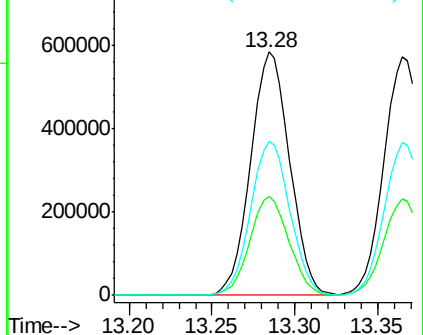
148 63.7 32.2 96.6



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



#88

1,4-Dichlorobenzene

Concen: 106.675 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

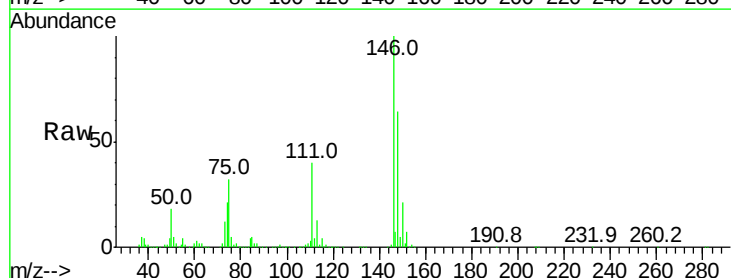
Tgt Ion:146 Resp: 948373

Ion Ratio Lower Upper

146 100

111 39.6 20.3 60.9

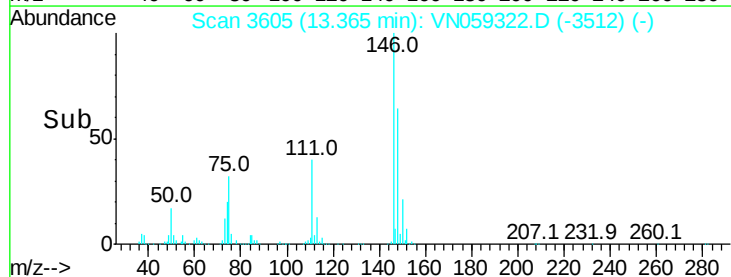
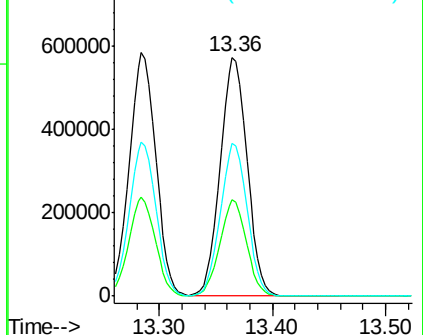
148 63.6 31.9 95.7

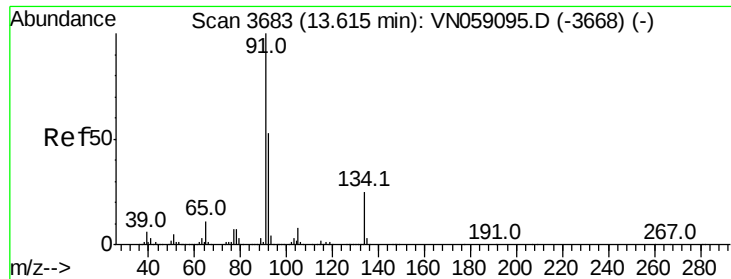


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

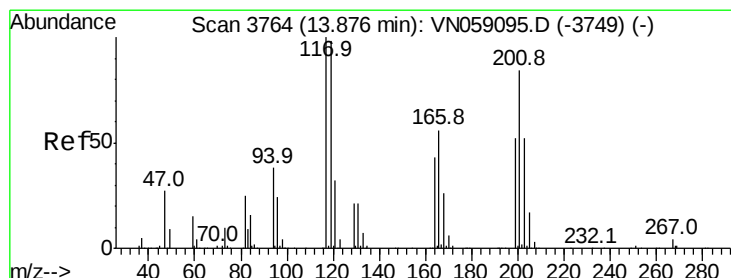
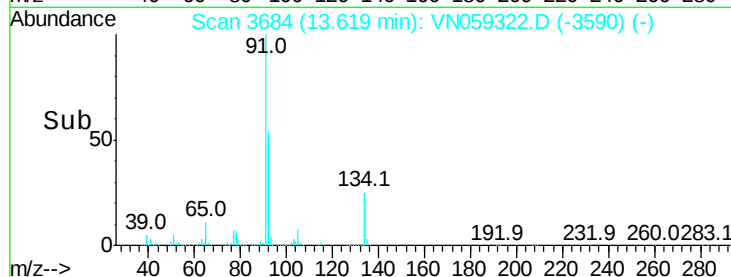
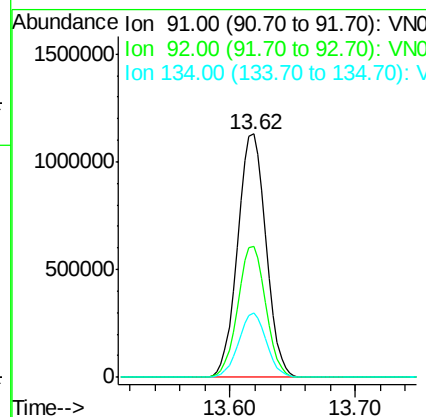
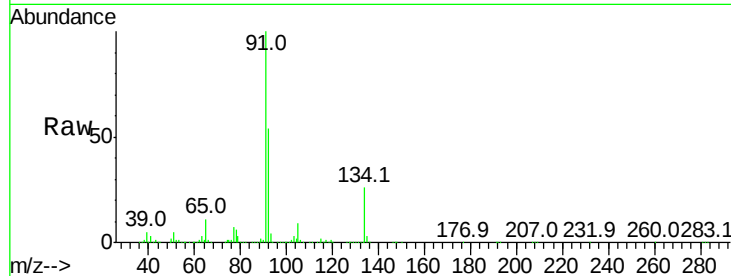




#89
n-Butylbenzene
Concen: 116.782 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

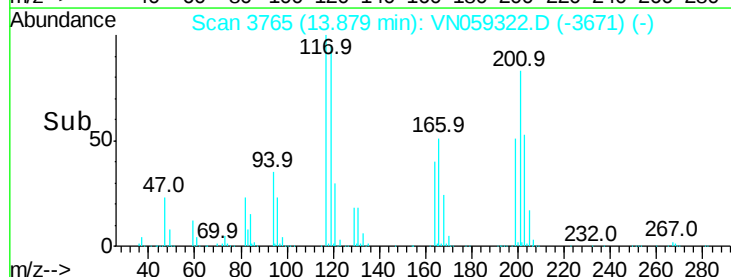
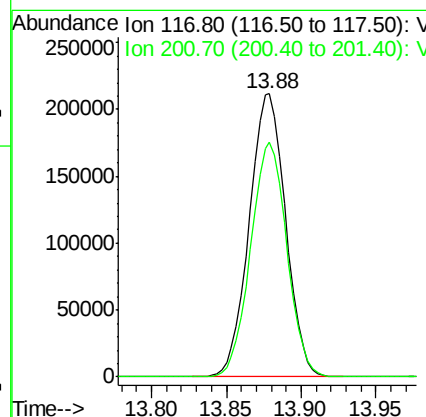
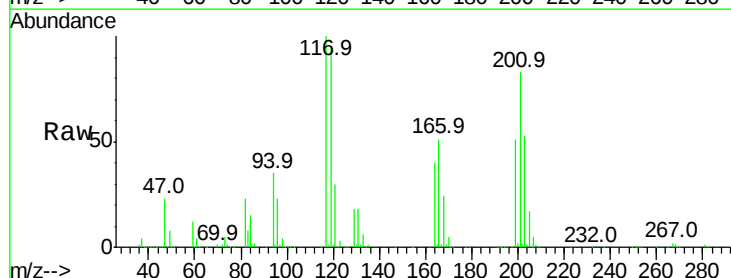
Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

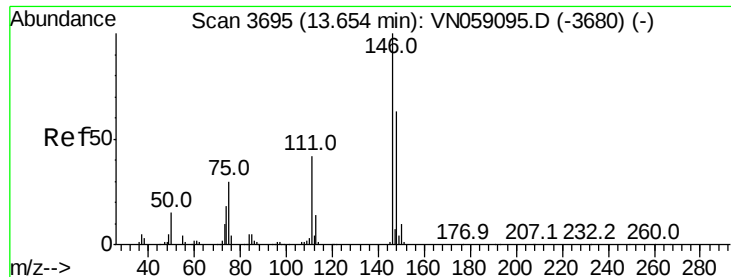
Tgt Ion: 91 Resp: 1773891
Ion Ratio Lower Upper
91 100
92 53.2 26.1 78.3
134 25.8 12.6 37.8



#90
Hexachloroethane
Concen: 102.864 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN059322.D
Acq: 20 Nov 2019 12:52

Tgt Ion: 117 Resp: 358471
Ion Ratio Lower Upper
117 100
201 82.4 41.8 125.3





#91

1,2-Dichlorobenzene

Concen: 105.497 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

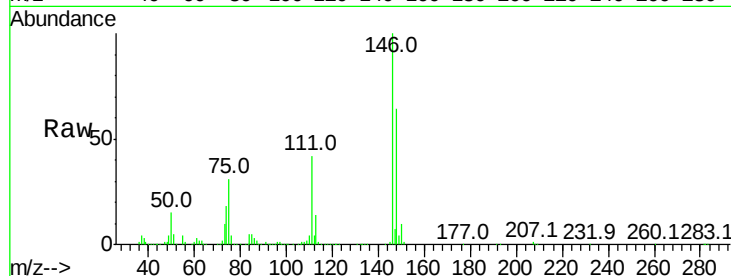
Tgt Ion:146 Resp: 922135

Ion Ratio Lower Upper

146 100

111 42.2 21.2 63.6

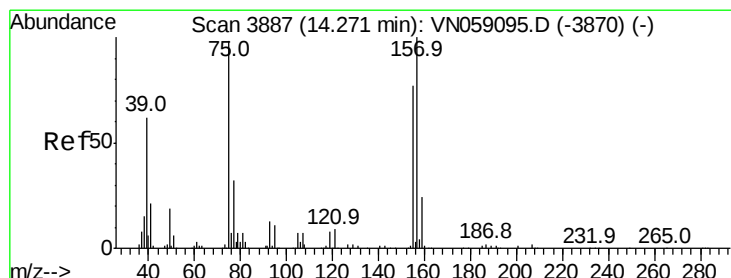
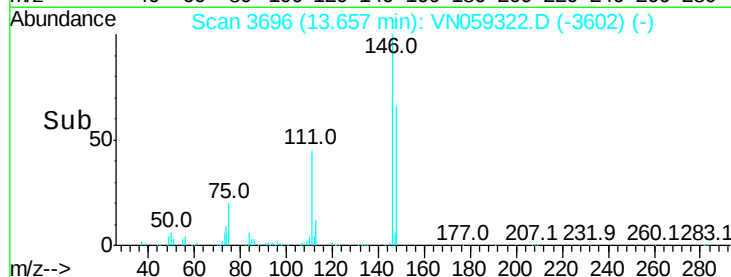
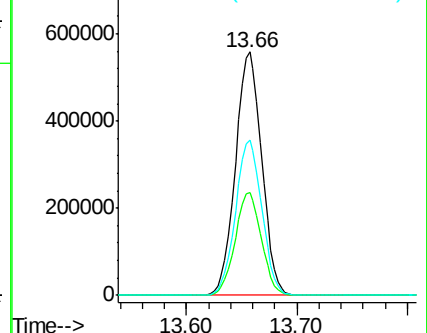
148 63.8 31.6 94.7



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 98.971 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

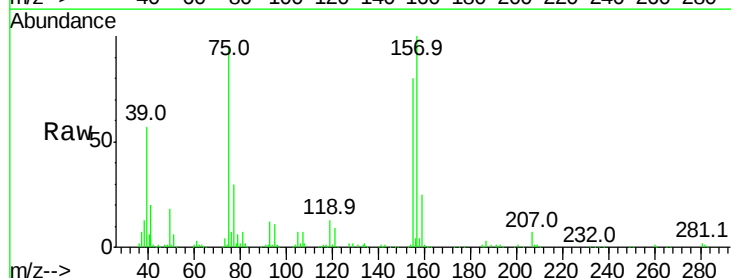
Tgt Ion: 75 Resp: 157108

Ion Ratio Lower Upper

75 100

155 84.0 40.2 120.6

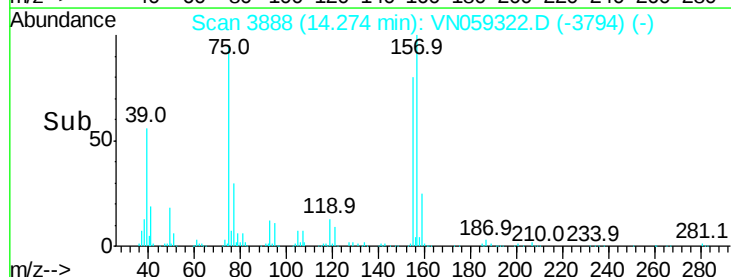
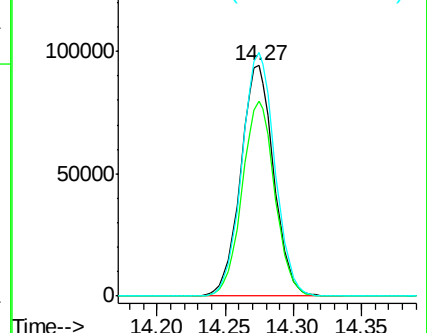
157 106.0 51.8 155.5

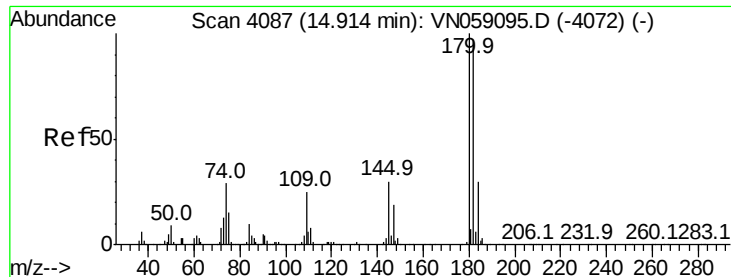


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

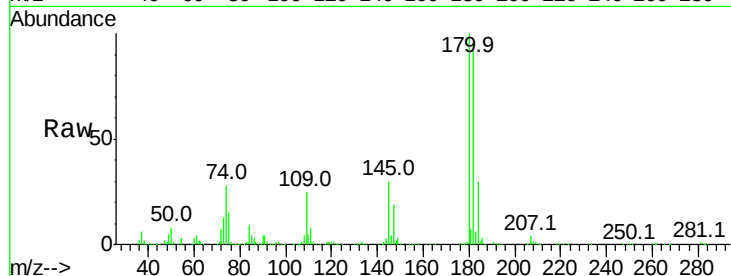




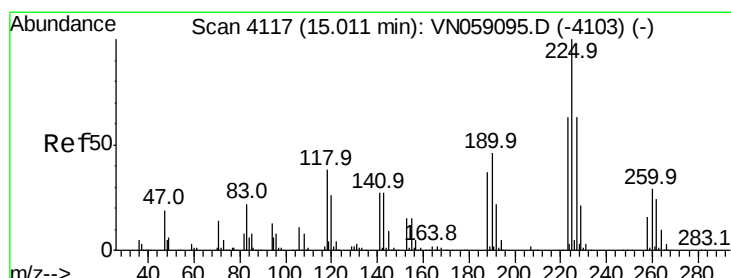
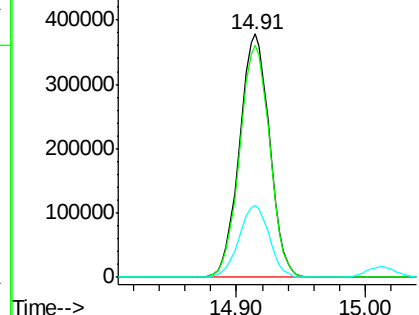
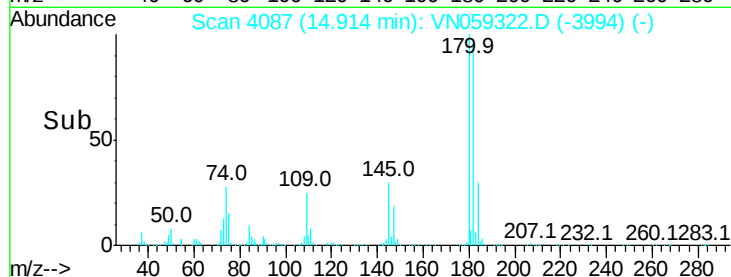
#93
 1,2,4-Trichlorobenzene
 Concen: 130.767 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.1	144.3
145	29.8	15.1	45.3

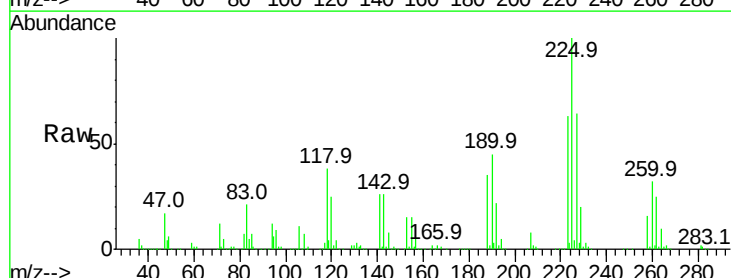


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

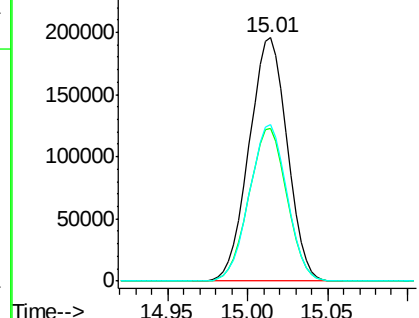
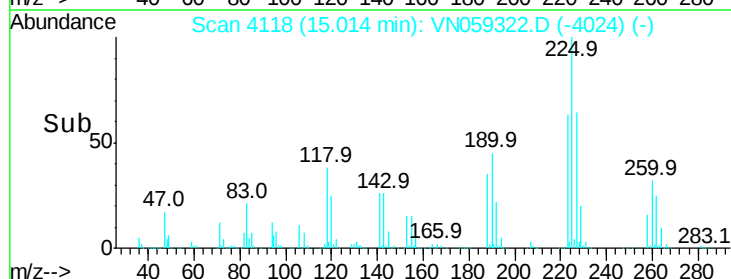


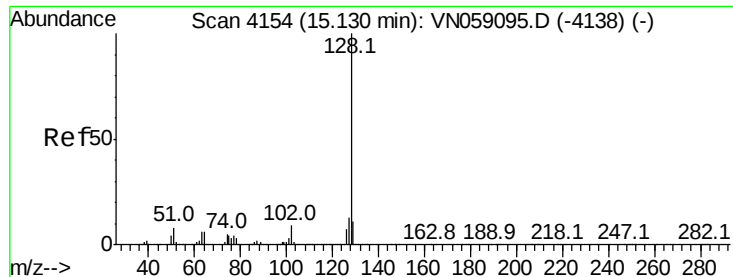
#94
 Hexachlorobutadiene
 Concen: 105.962 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059322.D
 Acq: 20 Nov 2019 12:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.3	93.9
227	63.3	31.5	94.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 135.271 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

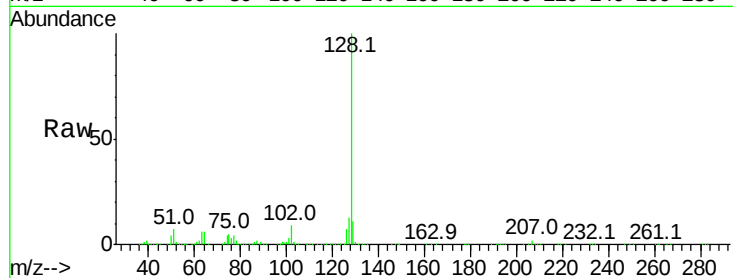
Tgt Ion:128 Resp: 1739655

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

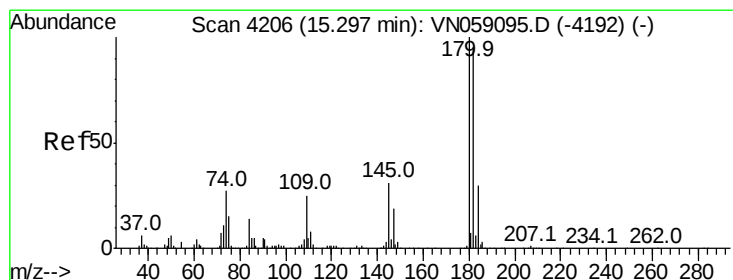
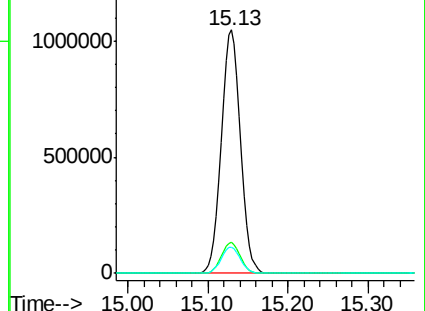
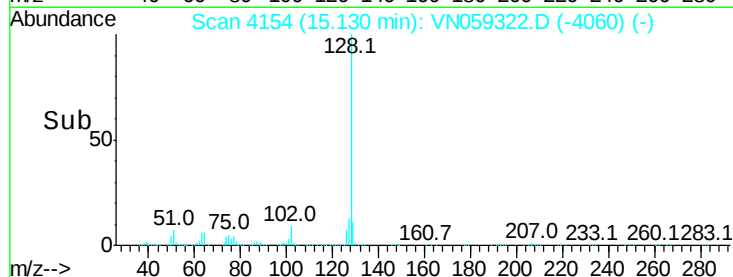
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 122.856 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN059322.D

Acq: 20 Nov 2019 12:52

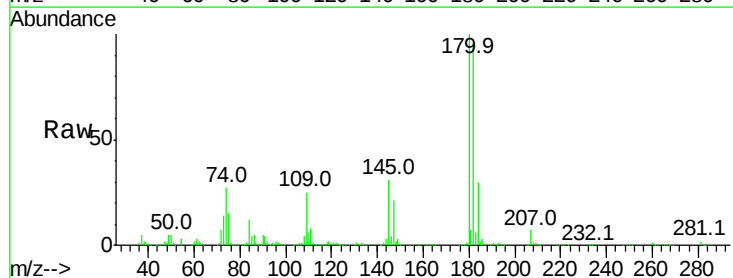
Tgt Ion:180 Resp: 601815

Ion Ratio Lower Upper

180 100

182 95.4 47.3 141.8

145 31.6 15.8 47.3



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

